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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

2Q16 Ground Water Sampling

SGS Accutest Job Number: JC22206

Sampling Dates: 06/10/16 - 06/14/16

Report to:

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Total number of pages in report: **1562**

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
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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC22206

BMSMC, Building 5 Area, PR
Project No: 2Q16 Ground Water Sampling

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC22206-1	06/10/16	12:25	NMR	06/15/16	AQ	Ground Water	MW-17
JC22206-1D	06/10/16	12:49	NMR	06/15/16	AQ	Water Dup/MSD	MW-17 MSD
JC22206-1S	06/10/16	12:30	NMR	06/15/16	AQ	Water Matrix Spike	MW-17 MS
JC22206-2	06/10/16	16:50	NMR	06/15/16	AQ	Ground Water	MW-18
JC22206-3	06/10/16	19:15	NMR	06/15/16	AQ	Ground Water	MW-7
JC22206-4	06/13/16	16:55	NMR	06/15/16	AQ	Ground Water	S-36
JC22206-5	06/13/16	17:08	NMR	06/15/16	AQ	Ground Water	S-36D
JC22206-6	06/13/16	15:00	NMR	06/15/16	AQ	Ground Water	S-37
JC22206-7	06/13/16	15:26	NMR	06/15/16	AQ	Ground Water	S-35
JC22206-8	06/13/16	18:08	NMR	06/15/16	AQ	Ground Water	S-32
JC22206-9	06/14/16	13:00	NMR	06/15/16	AQ	Ground Water	RA-10S
JC22206-9D	06/14/16	13:49	NMR	06/15/16	AQ	Water Dup/MSD	RA-10S MSD
JC22206-9S	06/14/16	13:25	NMR	06/15/16	AQ	Water Matrix Spike	RA-10S MS

SGS Accutest

Sample Summary
(continued)

Anderson, Mulholland & Associates

Job No: JC22206

BMSMC, Building 5 Area, PR
Project No: 2Q16 Ground Water Sampling

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC22206-10	06/14/16	16:04	NMR	06/15/16	AQ	Ground Water	RA-10D
JC22206-11	06/14/16	10:20	NMR	06/15/16	AQ	Equipment Blank	EB-061416

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC22206
Site:	BMSMC, Building 5 Area, PR	**Report Date**	7/6/2016 3:47:39 PM

On 06/15/2016, 10 Sample(s), 0 Trip Blank(s) and 1 Equipment Blank(s) were received at SGS Accutest at a maximum corrected temperature of 5.2 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC22206 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:** OP94835

- All samples were extracted within the recommended method holding time.
- Sample(s) JC22206-1MS, JC22206-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** OP94859

- All samples were extracted within the recommended method holding time.
- Sample(s) JC22206-9MS, JC22206-9MSD 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 1,4-Dioxane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Chlorophenol, 2-Nitroaniline, 2-Nitrophenol, 4-Bromophenyl phenyl ether, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, Acenaphthene, Acenaphthylene, Anthracene, Atrazine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Carbazole, Chrysene, Di-n-butyl phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene, Dibenzofuran, Fluoranthene, Fluorene, Hexachlorobenzene, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene are outside control limits for sample OP94859-MSD. Analytical precision exceeds in-house control limits.
- JC22206-10 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC22206-9 for Terphenyl-d14: Outside control limits due to dilution.
- JC22206-10 for 2-Fluorophenol: Outside control limits due to dilution.
- JC22206-10 for Terphenyl-d14: Outside control limits due to dilution.
- JC22206-10 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC22206-10 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JC22206-10 for Phenol-d5: Outside control limits due to dilution.
- JC22206-8 for 2-Fluorophenol: Outside control limits due to matrix interference. Confirmed by re-extraction.
- JC22206-9 for 2,4,6-Tribromophenol: Outside control limits due to dilution.
- JC22206-9 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JC22206-9 for 2-Fluorophenol: Outside control limits due to dilution.
- JC22206-9 for Nitrobenzene-d5: Outside control limits due to dilution.
- JC22206-9 for Phenol-d5: Outside control limits due to dilution.

Matrix: AQ **Batch ID:** OP95160

- The data for SW846 8270D meets quality control requirements.
- JC22206-8: Confirmation run for surrogate recoveries.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP94835A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC22206-1MS, JC22206-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** OP94859A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC22206-9MS, JC22206-9MSD were used as the QC samples indicated.
- Sample(s) JC22206-4, JC22206-5 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Matrix Spike Recovery(s) for Naphthalene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Naphthalene are outside control limits. Outside control limits due to matrix interference.
- 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.
- JC22206-4: There is compound contamination in MB. The results confirmed by re-extraction outside holding time.
- JC22206-5: There is compound contamination in MB. The results confirmed by re-extraction outside holding time.

Matrix: AQ **Batch ID:** OP95225A

- The data for SW846 8270D BY SIM meets quality control requirements.
- JC22206-4: Confirmation run.
- JC22206-5: Confirmation run.

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

Matrix: AQ **Batch ID:** GGH5324

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC22206-1MS, JC22206-1MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** GGH5328

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC22206-9MS, JC22206-9MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP94861

- All samples were extracted within the recommended method holding time.
- Sample(s) JC22206-9MS, JC22206-9MSD, OP94861-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JC22206-8: Confirmation run.
- JC22206-8 for Decachlorobiphenyl: Outside control limits due to matrix interference with the internal standard.
- JC22206-8 for Tetrachloro-m-xylene: Outside control limits due to matrix interference with the internal standard.
- OP94861-BS1 for gamma-Chlordane: Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.

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: JC22206
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 06/10/16 thru 06/14/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC22206-1	**MW-17**					
4-Chloroaniline		7.5	5.4	0.37	ug/l	SW846 8270D
1,4-Dioxane		13.6	1.1	0.71	ug/l	SW846 8270D
JC22206-2	**MW-18**					
Fluorene		0.77 J	1.1	0.19	ug/l	SW846 8270D
1-Methylnaphthalene		2.6	1.1	0.29	ug/l	SW846 8270D
1,4-Dioxane		0.723	0.11	0.053	ug/l	SW846 8270D BY SIM
JC22206-3	**MW-7**					
1,4-Dioxane		1.36	0.11	0.052	ug/l	SW846 8270D BY SIM
JC22206-4	**S-36**					
bis(2-Ethylhexyl)phthalate		2.1	2.0	1.7	ug/l	SW846 8270D
1,4-Dioxane [a]		2.86 B	0.10	0.049	ug/l	SW846 8270D BY SIM
JC22206-5	**S-36D**					
bis(2-Ethylhexyl)phthalate		18.9	2.0	1.7	ug/l	SW846 8270D
1,4-Dioxane [a]		3.46 B	0.10	0.049	ug/l	SW846 8270D BY SIM
JC22206-6	**S-37**					
1,4-Dioxane		25.2	1.0	0.66	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		2.0	2.0	1.7	ug/l	SW846 8270D
JC22206-7	**S-35**					
1,4-Dioxane		307	10	6.6	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		2.5	2.0	1.7	ug/l	SW846 8270D
JC22206-8	**S-32**					
2,4-Dimethylphenol		67.8	5.0	2.4	ug/l	SW846 8270D
2-Methylphenol		1.1 J	2.0	0.89	ug/l	SW846 8270D
Acetophenone		33.1	2.0	0.21	ug/l	SW846 8270D
Naphthalene		0.372	0.10	0.029	ug/l	SW846 8270D BY SIM
1,4-Dioxane		3.18	0.10	0.049	ug/l	SW846 8270D BY SIM

Summary of Hits

Job Number: JC22206
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 06/10/16 thru 06/14/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC22206-9	**RA-10S**					
1,4-Dioxane		1530	50	33	ug/l	SW846 8270D
Naphthalene		0.846	0.10	0.029	ug/l	SW846 8270D BY SIM
JC22206-10	**RA-10D**					
1,4-Dioxane		2700	100	66	ug/l	SW846 8270D
JC22206-11	**EB-061416**					
Caprolactam		0.81 J	2.0	0.65	ug/l	SW846 8270D
bis(2-Ethylhexyl)phthalate		2.1	2.0	1.7	ug/l	SW846 8270D

(a) There is compound contamination in MB. The results confirmed by re-extraction outside holding time.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	JC22206-1	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158276.D	1	06/23/16	BP	06/16/16	OP94835	EF6662
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.88	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.4	0.96	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.4	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.4	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.95	ug/l	
	3&4-Methylphenol	ND	2.2	0.95	ug/l	
88-75-5	2-Nitrophenol	ND	5.4	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.42	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.4	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.4	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.4	0.99	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.15	ug/l	
98-86-2	Acetophenone	ND	2.2	0.22	ug/l	
120-12-7	Anthracene	ND	1.1	0.23	ug/l	
1912-24-9	Atrazine	ND	2.2	0.48	ug/l	
100-52-7	Benzaldehyde	ND	5.4	0.31	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.37	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.49	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.23	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.25	ug/l	
106-47-8	4-Chloroaniline	7.5	5.4	0.37	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-17		
Lab Sample ID:	JC22206-1	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.2	0.70	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.43	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.59	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.55	ug/l	
123-91-1	1,4-Dioxane	13.6	1.1	0.71	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.4	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	1.8	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.35	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.53	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.0	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.42	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.36	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.4	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	5.4	0.42	ug/l	
100-01-6	4-Nitroaniline	ND	5.4	0.47	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.69	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.52	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.24	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.19	ug/l	
129-00-0	Pyrene	ND	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		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:	MW-17		
Lab Sample ID:	JC22206-1	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	28%		10-110%
118-79-6	2,4,6-Tribromophenol	86%		39-149%
4165-60-0	Nitrobenzene-d5	64%		32-128%
321-60-8	2-Fluorobiphenyl	71%		35-119%
1718-51-0	Terphenyl-d14	74%		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:	MW-17		
Lab Sample ID:	JC22206-1	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66456.D	1	06/29/16	LK	06/16/16	OP94835A	E4M2988
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%		24-125%
321-60-8	2-Fluorobiphenyl	52%		19-127%
1718-51-0	Terphenyl-d14	63%		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:	MW-17		
Lab Sample ID:	JC22206-1	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105526.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	81%		56-145%
111-27-3	Hexanol	87%		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:	MW-18		
Lab Sample ID:	JC22206-2	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158277.D	1	06/23/16	BP	06/16/16	OP94835	EF6662
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	0.89	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.4	0.97	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.4	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.4	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.97	ug/l	
	3&4-Methylphenol	ND	2.2	0.96	ug/l	
88-75-5	2-Nitrophenol	ND	5.4	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.43	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.4	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.4	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.4	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.15	ug/l	
98-86-2	Acetophenone	ND	2.2	0.23	ug/l	
120-12-7	Anthracene	ND	1.1	0.23	ug/l	
1912-24-9	Atrazine	ND	2.2	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.4	0.31	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.37	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.44	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.50	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.23	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.4	0.37	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	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:	MW-18		
Lab Sample ID:	JC22206-2	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.2	0.71	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.40	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.60	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.52	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.55	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.4	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.54	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	1.8	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	0.77	1.1	0.19	ug/l	J
118-74-1	Hexachlorobenzene	ND	1.1	0.35	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.53	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.0	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.42	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.36	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
90-12-0	1-Methylnaphthalene	2.6	1.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.4	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	5.4	0.42	ug/l	
100-01-6	4-Nitroaniline	ND	5.4	0.48	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.70	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.52	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	0.24	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.19	ug/l	
129-00-0	Pyrene	ND	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		14-88%
4165-62-2	Phenol-d5	34%		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:	MW-18		
Lab Sample ID:	JC22206-2	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	104%		39-149%
4165-60-0	Nitrobenzene-d5	74%		32-128%
321-60-8	2-Fluorobiphenyl	83%		35-119%
1718-51-0	Terphenyl-d14	83%		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:	MW-18		
Lab Sample ID:	JC22206-2	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66457.D	1	06/29/16	LK	06/16/16	OP94835A	E4M2988
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	0.723	0.11	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		24-125%
321-60-8	2-Fluorobiphenyl	69%		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:	MW-18		
Lab Sample ID:	JC22206-2	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105529.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	101%		56-145%
111-27-3	Hexanol	109%		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:	MW-7		
Lab Sample ID:	JC22206-3	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158293.D	1	06/24/16	BP	06/16/16	OP94835	EF6663
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.87	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.3	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	0.94	ug/l	
	3&4-Methylphenol	ND	2.1	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	5.3	1.5	ug/l	
108-95-2	Phenol	ND	2.1	0.42	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.98	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.14	ug/l	
98-86-2	Acetophenone	ND	2.1	0.22	ug/l	
120-12-7	Anthracene	ND	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.1	0.48	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.31	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.49	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.23	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.36	ug/l	
86-74-8	Carbazole	ND	1.1	0.24	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:	MW-7		
Lab Sample ID:	JC22206-3	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.1	0.69	ug/l	
218-01-9	Chrysene	ND	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.43	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.59	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.54	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.35	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	1.8	ug/l	
206-44-0	Fluoranthene	ND	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.35	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.0	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.35	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.41	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.47	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.24	ug/l	
85-01-8	Phenanthrene	ND	1.1	0.19	ug/l	
129-00-0	Pyrene	ND	1.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		14-88%
4165-62-2	Phenol-d5	34%		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:	MW-7		
Lab Sample ID:	JC22206-3	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	112%		39-149%
4165-60-0	Nitrobenzene-d5	80%		32-128%
321-60-8	2-Fluorobiphenyl	85%		35-119%
1718-51-0	Terphenyl-d14	92%		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:	MW-7		
Lab Sample ID:	JC22206-3	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66458.D	1	06/29/16	LK	06/16/16	OP94835A	E4M2988
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.031	ug/l	
123-91-1	1,4-Dioxane	1.36	0.11	0.052	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		24-125%
321-60-8	2-Fluorobiphenyl	71%		19-127%
1718-51-0	Terphenyl-d14	98%		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:	MW-7		
Lab Sample ID:	JC22206-3	**Date Sampled:**	06/10/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105530.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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%
111-27-3	Hexanol	109%		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-36		
Lab Sample ID:	JC22206-4	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158384.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
Run #2							

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

ABN TCL Special List

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	

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-36		
Lab Sample ID:	JC22206-4	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	
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	2.1	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		14-88%
4165-62-2	Phenol-d5	36%		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:	S-36		
Lab Sample ID:	JC22206-4	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	105%		39-149%
4165-60-0	Nitrobenzene-d5	82%		32-128%
321-60-8	2-Fluorobiphenyl	80%		35-119%
1718-51-0	Terphenyl-d14	89%		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-36		
Lab Sample ID:	JC22206-4	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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 [a]	4M66467.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2 [b]	4M66525.D	1	07/01/16	JJ	06/30/16	OP95225A	E4M2991

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	950 ml	1.0 ml

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	2.86	0.10	0.049	ug/l	B

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	95%	83%	24-125%
321-60-8	2-Fluorobiphenyl	102%	68%	19-127%
1718-51-0	Terphenyl-d14	94%	72%	10-119%

(a) There is compound contamination in MB. The results confirmed by re-extraction outside holding time.
(b) Confirmation run.

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-36		
Lab Sample ID:	JC22206-4	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105531.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	105%		56-145%
111-27-3	Hexanol	111%		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-36		
Lab Sample ID:	JC22206-4	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36621.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0065	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0065	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0061	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0049	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0049	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0039	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0041	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0066	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0053	ug/l	
72-20-8	Endrin	ND	0.011	0.0054	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0056	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0055	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0055	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0053	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0046	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0041	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0070	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0061	ug/l	
8001-35-2	Toxaphene	ND	0.27	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	102%		26-132%
877-09-8	Tetrachloro-m-xylene	96%		26-132%
2051-24-3	Decachlorobiphenyl	85%		10-118%
2051-24-3	Decachlorobiphenyl	87%		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

SGS Accutest

Report of Analysis

Client Sample ID:	S-36D		
Lab Sample ID:	JC22206-5	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158385.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
Run #2							

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

ABN TCL Special List

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	

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-36D		
Lab Sample ID:	JC22206-5	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	
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	18.9	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		14-88%
4165-62-2	Phenol-d5	34%		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:	S-36D		
Lab Sample ID:	JC22206-5	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	99%		39-149%
4165-60-0	Nitrobenzene-d5	81%		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-36D		
Lab Sample ID:	JC22206-5	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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 [a]	4M66468.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2 [b]	4M66526.D	1	07/01/16	JJ	06/30/16	OP95225A	E4M2991

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	950 ml	1.0 ml

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	3.46	0.10	0.049	ug/l	B

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%	74%	24-125%
321-60-8	2-Fluorobiphenyl	95%	60%	19-127%
1718-51-0	Terphenyl-d14	86%	77%	10-119%

(a) There is compound contamination in MB. The results confirmed by re-extraction outside holding time.
(b) Confirmation run.

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-36D		
Lab Sample ID:	JC22206-5	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105532.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	108%		56-145%
111-27-3	Hexanol	117%		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-36D		
Lab Sample ID:	JC22206-5	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36622.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
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	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	93%		26-132%
877-09-8	Tetrachloro-m-xylene	85%		26-132%
2051-24-3	Decachlorobiphenyl	76%		10-118%
2051-24-3	Decachlorobiphenyl	76%		10-118%

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-37		
Lab Sample ID:	JC22206-6	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158386.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
Run #2							

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

ABN TCL Special List

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	

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-37		
Lab Sample ID:	JC22206-6	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	25.2	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	2.0	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		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-37		
Lab Sample ID:	JC22206-6	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	104%		39-149%
4165-60-0	Nitrobenzene-d5	78%		32-128%
321-60-8	2-Fluorobiphenyl	75%		35-119%
1718-51-0	Terphenyl-d14	90%		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-37		
Lab Sample ID:	JC22206-6	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66469.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		24-125%
321-60-8	2-Fluorobiphenyl	90%		19-127%
1718-51-0	Terphenyl-d14	97%		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-37		
Lab Sample ID:	JC22206-6	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105535.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	104%		56-145%
111-27-3	Hexanol	107%		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-37		
Lab Sample ID:	JC22206-6	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36623.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0063	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0063	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0059	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0048	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0029	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0048	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0048	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0040	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0064	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0052	ug/l	
72-20-8	Endrin	ND	0.010	0.0053	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0055	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0053	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0053	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0052	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0045	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0040	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0068	ug/l	
72-43-5	Methoxychlor	ND	0.021	0.0059	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	105%		26-132%
877-09-8	Tetrachloro-m-xylene	103%		26-132%
2051-24-3	Decachlorobiphenyl	91%		10-118%
2051-24-3	Decachlorobiphenyl	98%		10-118%

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-35		
Lab Sample ID:	JC22206-7	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158387.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
Run #2	F158442.D	10	06/28/16	BP	06/17/16	OP94859	EF6668

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

ABN TCL Special List

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	

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-35		
Lab Sample ID:	JC22206-7	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	307 [a]	10	6.6	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	2.5	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%	51%	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-35		
Lab Sample ID:	JC22206-7	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	34%	35%	10-110%
118-79-6	2,4,6-Tribromophenol	97%	92%	39-149%
4165-60-0	Nitrobenzene-d5	78%	82%	32-128%
321-60-8	2-Fluorobiphenyl	75%	81%	35-119%
1718-51-0	Terphenyl-d14	82%	90%	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:	S-35		
Lab Sample ID:	JC22206-7	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66470.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		24-125%
321-60-8	2-Fluorobiphenyl	83%		19-127%
1718-51-0	Terphenyl-d14	74%		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-35		
Lab Sample ID:	JC22206-7	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105536.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	106%		56-145%
111-27-3	Hexanol	115%		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-35		
Lab Sample ID:	JC22206-7	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36624.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0065	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0065	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0061	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0049	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0049	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0039	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0041	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0066	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0053	ug/l	
72-20-8	Endrin	ND	0.011	0.0054	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0056	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0055	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0055	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0053	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0046	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0041	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0070	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0061	ug/l	
8001-35-2	Toxaphene	ND	0.27	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		26-132%
877-09-8	Tetrachloro-m-xylene	110%		26-132%
2051-24-3	Decachlorobiphenyl	107%		10-118%
2051-24-3	Decachlorobiphenyl	110%		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

SGS Accutest

Report of Analysis

Client Sample ID:	S-32		
Lab Sample ID:	JC22206-8	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158388.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
Run #2 [a]	Z111971.D	1	06/29/16	AC	06/28/16	OP95160	EZ5596

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	930 ml	1.0 ml

ABN TCL Special List

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	67.8	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	1.1	2.0	0.89	ug/l	J
	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	33.1	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	

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-32		
Lab Sample ID:	JC22206-8	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	
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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	4% [c]	6% [b]	14-88%
4165-62-2	Phenol-d5	33%	41%	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:	S-32		
Lab Sample ID:	JC22206-8	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	108%	82%	39-149%
4165-60-0	Nitrobenzene-d5	91%	85%	32-128%
321-60-8	2-Fluorobiphenyl	88%	76%	35-119%
1718-51-0	Terphenyl-d14	82%	63%	10-126%

(a) Confirmation run for surrogate recoveries.
(b) Outside control limits due to matrix interference.
(c) Outside control limits due to matrix interference. Confirmed by re-extraction.

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-32		
Lab Sample ID:	JC22206-8	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66487.D	1	06/30/16	LK	06/17/16	OP94859A	E4M2990
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	0.372	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	3.18	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		24-125%
321-60-8	2-Fluorobiphenyl	59%		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:	S-32		
Lab Sample ID:	JC22206-8	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105537.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	96%		56-145%
111-27-3	Hexanol	128%		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-32		
Lab Sample ID:	JC22206-8	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36670.D	5	06/28/16	KD	06/17/16	OP94861	G6G1048
Run #2 [a]	6G36625.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2	960 ml	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.052	0.031	ug/l	
319-84-6	alpha-BHC	ND	0.052	0.031	ug/l	
319-85-7	beta-BHC	ND	0.052	0.030	ug/l	
319-86-8	delta-BHC	ND	0.052	0.024	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.052	0.014	ug/l	
5103-71-9	alpha-Chlordane	ND	0.052	0.024	ug/l	
5103-74-2	gamma-Chlordane	ND	0.052	0.024	ug/l	
60-57-1	Dieldrin	ND	0.052	0.019	ug/l	
72-54-8	4,4'-DDD	ND	0.052	0.020	ug/l	
72-55-9	4,4'-DDE	ND	0.052	0.032	ug/l	
50-29-3	4,4'-DDT	ND	0.052	0.026	ug/l	
72-20-8	Endrin	ND	0.052	0.026	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.052	0.027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.052	0.027	ug/l	
53494-70-5	Endrin ketone	ND	0.052	0.026	ug/l	
959-98-8	Endosulfan-I	ND	0.052	0.026	ug/l	
33213-65-9	Endosulfan-II	ND	0.052	0.022	ug/l	
76-44-8	Heptachlor	ND	0.052	0.020	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.052	0.034	ug/l	
72-43-5	Methoxychlor	ND	0.10	0.030	ug/l	
8001-35-2	Toxaphene	ND	1.3	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	44%	13% [b]	26-132%
877-09-8	Tetrachloro-m-xylene	82%	39%	26-132%
2051-24-3	Decachlorobiphenyl	31%	8% [b]	10-118%
2051-24-3	Decachlorobiphenyl	49%	28%	10-118%

(a) Confirmation run.
(b) Outside control limits due to matrix interference with the internal standard.

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-10S		
Lab Sample ID:	JC22206-9	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158389.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
Run #2	F158443.D	50	06/28/16	BP	06/17/16	OP94859	EF6668

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

ABN TCL Special List

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	

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-10S		
Lab Sample ID:	JC22206-9	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	1530 [a]	50	33	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%	0% [b]	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:	RA-10S		
Lab Sample ID:	JC22206-9	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	34%	0% [b]	10-110%
118-79-6	2,4,6-Tribromophenol	110%	0% [b]	39-149%
4165-60-0	Nitrobenzene-d5	86%	0% [b]	32-128%
321-60-8	2-Fluorobiphenyl	84%	0% [b]	35-119%
1718-51-0	Terphenyl-d14	90%	0% [b]	10-126%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

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-10S		
Lab Sample ID:	JC22206-9	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66472.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	0.846	0.10	0.029	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		24-125%
321-60-8	2-Fluorobiphenyl	88%		19-127%
1718-51-0	Terphenyl-d14	85%		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:	RA-10S		
Lab Sample ID:	JC22206-9	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105573.D	1	06/20/16	XPL	n/a	n/a	GGH5328
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	96%		56-145%
111-27-3	Hexanol	92%		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-10S		
Lab Sample ID:	JC22206-9	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36626.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0065	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0065	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0061	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0049	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0049	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0039	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0041	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0066	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0053	ug/l	
72-20-8	Endrin	ND	0.011	0.0054	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0056	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0055	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0055	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0053	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0046	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0041	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0070	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0061	ug/l	
8001-35-2	Toxaphene	ND	0.27	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		26-132%
877-09-8	Tetrachloro-m-xylene	61%		26-132%
2051-24-3	Decachlorobiphenyl	41%		10-118%
2051-24-3	Decachlorobiphenyl	42%		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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-10D		
Lab Sample ID:	JC22206-10	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	F158440.D	1	06/28/16	BP	06/17/16	OP94859	EF6668
Run #2	F158478.D	100	06/29/16	AD	06/17/16	OP94859	EF6670

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

ABN TCL Special List

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	

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-10D		
Lab Sample ID:	JC22206-10	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	2.0	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	
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	2700 [a]	100	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%	0% [b]	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:	RA-10D		
Lab Sample ID:	JC22206-10	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	37%	0% [b]	10-110%
118-79-6	2,4,6-Tribromophenol	109%	0% [b]	39-149%
4165-60-0	Nitrobenzene-d5	83%	0% [b]	32-128%
321-60-8	2-Fluorobiphenyl	77%	0% [b]	35-119%
1718-51-0	Terphenyl-d14	96%	0% [b]	10-126%

(a) Result is from Run# 2
(b) Outside control limits due to dilution.

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-10D		
Lab Sample ID:	JC22206-10	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	4M66473.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		24-125%
321-60-8	2-Fluorobiphenyl	92%		19-127%
1718-51-0	Terphenyl-d14	100%		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:	RA-10D		
Lab Sample ID:	JC22206-10	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	GH105539.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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%
111-27-3	Hexanol	112%		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-10D		
Lab Sample ID:	JC22206-10	**Date Sampled:**	06/14/16
Matrix:	AQ - Ground Water	**Date Received:**	06/15/16
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	6G36629.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
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	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	94%		26-132%
877-09-8	Tetrachloro-m-xylene	89%		26-132%
2051-24-3	Decachlorobiphenyl	59%		10-118%
2051-24-3	Decachlorobiphenyl	60%		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

SGS Accutest

Report of Analysis

Client Sample ID:	EB-061416		
Lab Sample ID:	JC22206-11	**Date Sampled:**	06/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/15/16
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	F158441.D	1	06/28/16	BP	06/17/16	OP94859	EF6668
Run #2							

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

ABN TCL Special List

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	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB-061416		
Lab Sample ID:	JC22206-11	**Date Sampled:**	06/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/15/16
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	0.81	2.0	0.65	ug/l	J
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	
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	
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	2.1	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	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		14-88%
4165-62-2	Phenol-d5	36%		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:	EB-061416		
Lab Sample ID:	JC22206-11	**Date Sampled:**	06/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/15/16
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	106%		39-149%
4165-60-0	Nitrobenzene-d5	82%		32-128%
321-60-8	2-Fluorobiphenyl	76%		35-119%
1718-51-0	Terphenyl-d14	99%		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:	EB-061416		
Lab Sample ID:	JC22206-11	**Date Sampled:**	06/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/15/16
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	4M66474.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989
Run #2							

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

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	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		24-125%
321-60-8	2-Fluorobiphenyl	86%		19-127%
1718-51-0	Terphenyl-d14	101%		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:	EB-061416		
Lab Sample ID:	JC22206-11	**Date Sampled:**	06/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/15/16
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	GH105540.D	1	06/16/16	XPL	n/a	n/a	GGH5324
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	103%		56-145%
111-27-3	Hexanol	110%		56-145%

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:	EB-061416		
Lab Sample ID:	JC22206-11	**Date Sampled:**	06/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/15/16
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	6G36630.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0066	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0065	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0062	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0050	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0050	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0039	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0041	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0067	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0054	ug/l	
72-20-8	Endrin	ND	0.011	0.0055	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0057	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0056	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0055	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0054	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0047	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0041	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0071	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0062	ug/l	
8001-35-2	Toxaphene	ND	0.27	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		26-132%
877-09-8	Tetrachloro-m-xylene	106%		26-132%
2051-24-3	Decachlorobiphenyl	68%		10-118%
2051-24-3	Decachlorobiphenyl	75%		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
EB
WTB

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Page 1 of 2 PN

Accutest Job #: JC22206
Accutest Quote #:

Client Information
Anderson Mulholland & Associates
Name: 2700 Westchester Avenue
Address: Purchase NY 10577
City / State / Zip
Terry Taylor
Send Report to:
Phone #: 914-251-0400

Facility Information
Anderson Mulholland
Project Name
Location
Project/PO #: 2Q16 Ground Water Sampling
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	VOCs, 8260C	SVOC, 8270D	LMA, 8015B	Pesticides, 8081B	VMAVPH	BMAEPHR	1,4 Dioxane and naphthalene, Method 8270D SIM				
MW-17	6/10/16	1225	NMR	GW		X				X	X	X	X		X	X	X	1			E99
MW-18	6/10/16	1650		GW		X				X	X	X	X		X	X	X	2			V400
MW-17 MS	6/10/16	1237		GW		X				X	X	X	X		X	X	X	1			V399
MW-17 MSD	6/10/16	1249		GW		X				X	X	X	X		X	X	X				
MW-7	6/10/16	1915		GW		X				X	X	X	X		X	X	X	3			SVD
S-33	6/13/16	1225		GW		X				X	X	X	X	X	X	X	X				
S-36		1655		GW		X				X	X	X	X	X	X	X	X	4			
S-36D		1708		GW		X				X	X	X	X	X	X	X	X	5			
S-37		1500		GW		X				X	X	X	X	X	X	X	X	6			
S-34		1305		GW		X				X	X	X	X	X	X	X	X				
S-35 *	6/13/16	1526		GW		X				X	X	X	X	X	X	X	X	7			

Turnaround Information
- [X] 21 Day Standard
- [ ] 14 Day
- [ ] 7 Days EMERGENCY
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information
- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] NJ Category B
- [ ] State Forms

INITIAL ASESSMENT RP 1/B
LABEL VERIFICATION JM

Comments / Remarks

Federal Express ID # 8012 1953 5960
Lab Trip Blank Date 4/11/16 Time 0630
For VOCs (8260C) add to report: Tetrahydrofuran, p-isopropyl toluene, 1-2-4 Trimethyl benzene, Benzyl choride and Tert amylchloride. For SVOCs (8270D) add to report: 1-methyl naphthalene
* VOA QC FOR 8260C

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 Victor M Rivera	6/14/16 1800	1 Fed Ex	2 FEDEX	6-15-16 9:25	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 321, 322, 323, 324, 325, 326, 327, 328, 329, 330	Preserved where applicable	On Ice:

4.1, 4.0, 3.6, 3.7, 4.1, 3.7, 3.9, 4.2, 4.0, 3.8 °C FP

5.1 5

JC22206: Chain of Custody
Page 1 of 4

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

FED EX MSTR
8012 1953 5960

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Accutest Job #: JC22206
Accutest Quote #:

Client Information
Name: Anderson Mulholland & Associates
Address: 2700 Westchester Avenue
City: Purchase State: NY Zip: 10577
Send Report to: Terry Taylor
Phone #: 914-251-0400

Facility Information
Project Name: Anderson Mulholland
Location:
Project/PO #: 2Q16 Ground Water Sampling
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	VOCs, 8260C	SVOC, 8270D	LMA, 8015B	Pesticides, 8081B	VMAVPH	BMAEPHR	1,4 Dioxane and naphthalene, Method 8270D SIM				
S-32	6/13/16	1808	NMR	GW		X				X	X	X	X	X	X	X	X	8			
RA-10S	6/14/16	1300	NMR	GW		X				X	X	X	X	X	X	X	X				
RA-10S MS	6/14/16	1325	NMR	GW		X				X	X	X	X	X	X	X	X	9			
RA-10S MSD	6/14/16	1349	NMR	GW		X				X	X	X	X	X	X	X	X				
RA-10D	6/14/16	1604	NMR	GW		X				X	X	X	X	X	X	X	X	10			
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
EB-061416	6/14/16	1020	JD	EB	14	X				X	X	X	X	X	X	X	X	11			
TB-061416	6/14/16	1604		TB	2	X					X							12			

Turnaround Information
- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information
- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks
Federal Express ID #
Lab Trip Blank Date 4/11/16 Time 0630
For VOCs (8260C) add to report: Tetrahydrofuran, p-isopropyl toluene, 1-2-4 Trimethyl benzene, Benzyl choride and Tert amylchloride. For SVOCs (8270D) add to report: 1-methyl naphthalene

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/14/16 1800	1 Fed Ex	2 FED EX	6-15-16 925	2 [signature]
3		3	4		4
5		5			

Seal # / Preserved where applicat / On Ice:
321, 322, 323, 324, 325, 326, 327, 328, 329, 330
4.1 4.0 3.6 3.7 4.1 3.7 3.9 4.0 3.8 4.2

5.1 5

SGS Accutest Sample Receipt Summary

Job Number: JC22206 **Client:** Anderson Mulholland & Associates **Project:** 2Q16 Ground Water Sampling

Date / Time Received: 6/15/2016 9:25:00 AM **Delivery Method:** FedEx **Airbill #'s:** 801219535960

Cooler Temps (Raw Measured) °C: Cooler 1: (4.1); Cooler 2: (4.0); Cooler 3: (3.6); Cooler 4: (3.7); Cooler 5: (4.1); Cooler 6: (3.7); Cooler 7: (3.9); Cooler 8: (4.3); Cooler 9: (4.0); Cooler 10: (3.8);

Cooler Temps (Corrected) °C: Cooler 1: (5.0); Cooler 2: (4.9); Cooler 3: (4.5); Cooler 4: (4.6); Cooler 5: (5.0); Cooler 6: (4.6); Cooler 7: (4.8); Cooler 8: (5.2); Cooler 9: (4.9); Cooler 10: (4.7);

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

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	10	

Quality Control Preservation	Y	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	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

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

Sample Integrity - Instructions	Y	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 Did not receive any volume for sample "S-33" and "S-34"

SGS Accutest Sample - Problem Resolution

Accutest Job Number: JC22206

CSR: Tammy McCloskey **Response Date** 6/16/2016

Response: Proceed as noted, client notified.

JC22206: Chain of Custody
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Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC22206

BMSMC, Building 5 Area, PR
Project No: 2Q16 Ground Water Sampling

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC22206-1 MW-17	Collected: 10-JUN-16 12:25 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-1	SW846-8015C (DAI)	16-JUN-16 13:02	XPL			D8015LMA
JC22206-1	SW846 8270D	23-JUN-16 21:49	BP	16-JUN-16	RG	AB8270SL
JC22206-1	SW846 8270D BY SIM	29-JUN-16 09:13	LK	16-JUN-16	RG	BSIM + NAP
JC22206-2 MW-18	Collected: 10-JUN-16 16:50 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-2	SW846-8015C (DAI)	16-JUN-16 13:51	XPL			D8015LMA
JC22206-2	SW846 8270D	23-JUN-16 22:18	BP	16-JUN-16	RG	AB8270SL
JC22206-2	SW846 8270D BY SIM	29-JUN-16 09:43	LK	16-JUN-16	RG	B8270SIM14DIOX,BSIM + NAP
JC22206-3 MW-7	Collected: 10-JUN-16 19:15 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-3	SW846-8015C (DAI)	16-JUN-16 14:07	XPL			D8015LMA
JC22206-3	SW846 8270D	24-JUN-16 09:26	BP	16-JUN-16	RG	AB8270SL
JC22206-3	SW846 8270D BY SIM	29-JUN-16 10:14	LK	16-JUN-16	RG	B8270SIM14DIOX,BSIM + NAP
JC22206-4 S-36	Collected: 13-JUN-16 16:55 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-4	SW846-8015C (DAI)	16-JUN-16 14:24	XPL			D8015LMA
JC22206-4	SW846 8270D	27-JUN-16 16:02	BP	17-JUN-16	FA	AB8270SL
JC22206-4	SW846 8081B	27-JUN-16 18:53	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-4	SW846 8270D BY SIM	29-JUN-16 15:17	LK	17-JUN-16	FA	B8270SIM14DIOX,BSIM + NAP
JC22206-4	SW846 8270D BY SIM	01-JUL-16 05:46	JJ	30-JUN-16		
JC22206-5 S-36D	Collected: 13-JUN-16 17:08 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-5	SW846-8015C (DAI)	16-JUN-16 14:40	XPL			D8015LMA
JC22206-5	SW846 8270D	27-JUN-16 16:31	BP	17-JUN-16	FA	AB8270SL
JC22206-5	SW846 8081B	27-JUN-16 19:09	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-5	SW846 8270D BY SIM	29-JUN-16 15:48	LK	17-JUN-16	FA	B8270SIM14DIOX,BSIM + NAP
JC22206-5	SW846 8270D BY SIM	01-JUL-16 06:16	JJ	30-JUN-16		

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC22206

BMSMC, Building 5 Area, PR
Project No: 2Q16 Ground Water Sampling

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC22206-6 S-37	Collected: 13-JUN-16 15:00 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-6	SW846-8015C (DAI)	16-JUN-16 15:29	XPL			D8015LMA
JC22206-6	SW846 8270D	27-JUN-16 17:01	BP	17-JUN-16	FA	AB8270SL
JC22206-6	SW846 8081B	27-JUN-16 19:25	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-6	SW846 8270D BY SIM	29-JUN-16 16:19	LK	17-JUN-16	FA	BSIM + NAP
JC22206-7 S-35	Collected: 13-JUN-16 15:26 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-7	SW846-8015C (DAI)	16-JUN-16 15:46	XPL			D8015LMA
JC22206-7	SW846 8270D	27-JUN-16 17:30	BP	17-JUN-16	FA	AB8270SL
JC22206-7	SW846 8081B	27-JUN-16 19:42	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-7	SW846 8270D	28-JUN-16 22:33	BP	17-JUN-16	FA	AB8270SL
JC22206-7	SW846 8270D BY SIM	29-JUN-16 16:50	LK	17-JUN-16	FA	BSIM + NAP
JC22206-8 S-32	Collected: 13-JUN-16 18:08 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-8	SW846-8015C (DAI)	16-JUN-16 16:02	XPL			D8015LMA
JC22206-8	SW846 8270D	27-JUN-16 18:00	BP	17-JUN-16	FA	AB8270SL
JC22206-8	SW846 8081B	27-JUN-16 19:58	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-8	SW846 8081B	28-JUN-16 10:29	KD	17-JUN-16	SD	P8081PESTTCL
JC22206-8	SW846 8270D	29-JUN-16 15:24	AC	28-JUN-16	RF	AB8270SL
JC22206-8	SW846 8270D BY SIM	30-JUN-16 09:23	LK	17-JUN-16	FA	B8270SIM14DIOX,BSIM + NAP
JC22206-9 RA-10S	Collected: 14-JUN-16 13:00 By: NMR		Received: 15-JUN-16 By: AS			
JC22206-9	SW846-8015C (DAI)	20-JUN-16 13:56	XPL			D8015LMA
JC22206-9	SW846 8270D	27-JUN-16 18:28	BP	17-JUN-16	FA	AB8270SL
JC22206-9	SW846 8081B	27-JUN-16 20:15	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-9	SW846 8270D	28-JUN-16 23:02	BP	17-JUN-16	FA	AB8270SL
JC22206-9	SW846 8270D BY SIM	29-JUN-16 17:51	LK	17-JUN-16	FA	BSIM + NAP
JC22206-10 RA-10D	Collected: 14-JUN-16 16:04 By: NMR		Received: 15-JUN-16 By: AS			

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC22206

BMSMC, Building 5 Area, PR
Project No: 2Q16 Ground Water Sampling

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC22206-10	SW846-8015C (DAI)	16-JUN-16 16:35	XPL			D8015LMA
JC22206-10	SW846 8081B	27-JUN-16 21:04	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-10	SW846 8270D	28-JUN-16 21:34	BP	17-JUN-16	FA	AB8270SL
JC22206-10	SW846 8270D BY SIM	29-JUN-16 18:22	LK	17-JUN-16	FA	BSIM + NAP
JC22206-10	SW846 8270D	29-JUN-16 18:31	AD	17-JUN-16	FA	AB8270SL
JC22206-11	Collected: 14-JUN-16 10:20 By: NMR		Received: 15-JUN-16 By: AS			
EB-061416						
JC22206-11	SW846-8015C (DAI)	16-JUN-16 16:51	XPL			D8015LMA
JC22206-11	SW846 8081B	27-JUN-16 21:21	DS	17-JUN-16	SD	P8081PESTTCL
JC22206-11	SW846 8270D	28-JUN-16 22:04	BP	17-JUN-16	FA	AB8270SL
JC22206-11	SW846 8270D BY SIM	29-JUN-16 18:54	LK	17-JUN-16	FA	B8270SIM14DIOX,BSIM + NAP

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-1.1	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-1.1	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-1.1	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-1.1	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-1.1.1	Ryan Fantasia	Organics Prep	06/16/16 15:02	Extract from JC22206-1.1
JC22206-1.1.1	Organics Prep	Rebecca Gluckman	06/16/16 21:22	Extract from JC22206-1.1
JC22206-1.1.1	Rebecca Gluckman	Extract Storage	06/16/16 21:22	Return to Storage
JC22206-1.1.1	Extract Storage	Julius Johnson	06/23/16 17:34	Retrieve from Storage
JC22206-1.1.1	Julius Johnson	GCMSF	06/23/16 17:34	Load on Instrument
JC22206-1.1.1	GCMSF	Kristi Schollenberger	06/26/16 14:22	Unload from Instrument
JC22206-1.1.1	Kristi Schollenberger	Extract Freezer	06/26/16 14:23	Return to Storage
JC22206-1.1.1	Extract Freezer	Linsey Kirschmann	06/28/16 10:14	Retrieve from Storage
JC22206-1.1.1	Linsey Kirschmann	GCMS4M	06/28/16 10:14	Load on Instrument
JC22206-1.1.1	GCMS4M	Linsey Kirschmann	07/01/16 15:56	Unload from Instrument
JC22206-1.1.1	Linsey Kirschmann	Extract Freezer	07/01/16 15:56	Return to Storage
JC22206-1.2	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-1.2	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-1.2	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-1.2	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-1.3	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-1.3	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-1.3	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-1.3	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-1.5	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-1.5	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-1.5	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-1.5	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-1.6	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-1.6	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-1.6	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-1.6	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-1.7	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.7	Bernadette Vassilatos		06/21/16 08:44	Subcontract

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-1.8	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.8	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.9	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.9	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.10	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.10	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.11	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.11	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.13	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.13	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.14	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.14	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.15	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.15	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.16	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.16	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.17	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.17	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.18	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.18	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.19	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.19	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.20	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.20	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.21	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-1.21	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-1.23	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-1.23	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-1.31	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.31	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.32	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.32	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.33	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.33	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.34	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.34	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.35	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.35	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.36	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.36	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.37	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.37	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.38	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.38	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-1.39	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-1.39	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-2.2	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-2.2	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-2.2	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-2.2	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-2.2.1	Ryan Fantasia	Organics Prep	06/16/16 15:02	Extract from JC22206-2.2
JC22206-2.2.1	Organics Prep	Rebecca Gluckman	06/16/16 21:22	Extract from JC22206-2.2
JC22206-2.2.1	Rebecca Gluckman	Extract Storage	06/16/16 21:22	Return to Storage
JC22206-2.2.1	Extract Storage	Julius Johnson	06/23/16 17:34	Retrieve from Storage
JC22206-2.2.1	Julius Johnson	GCMSF	06/23/16 17:34	Load on Instrument
JC22206-2.2.1	GCMSF	Kristi Schollenberger	06/26/16 14:22	Unload from Instrument
JC22206-2.2.1	Kristi Schollenberger	Extract Freezer	06/26/16 14:23	Return to Storage
JC22206-2.2.1	Extract Freezer	Linsey Kirschmann	06/28/16 10:14	Retrieve from Storage
JC22206-2.2.1	Linsey Kirschmann	GCMS4M	06/28/16 10:14	Load on Instrument

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-2.2.1	GCMS4M	Linsey Kirschmann	07/01/16 15:56	Unload from Instrument
JC22206-2.2.1	Linsey Kirschmann	Extract Freezer	07/01/16 15:56	Return to Storage
JC22206-2.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-2.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-2.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-2.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-2.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-2.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-2.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-2.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-2.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-2.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-2.10	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-2.10	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-2.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-2.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-2.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-2.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-2.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-2.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-3.1	Secured Storage	Todd Shoemaker	06/16/16 14:34	Retrieve from Storage
JC22206-3.1	Todd Shoemaker	Secured Staging Area	06/16/16 14:34	Return to Storage
JC22206-3.1	Secured Staging Area	Ryan Fantasia	06/16/16 15:00	Retrieve from Storage
JC22206-3.1	Bruce Scholz		06/17/16 08:18	Depleted
Analyst unavailable for custody transfer.				
JC22206-3.1.1	Ryan Fantasia	Organics Prep	06/16/16 15:02	Extract from JC22206-3.1
JC22206-3.1.1	Organics Prep	Rebecca Gluckman	06/16/16 21:22	Extract from JC22206-3.1
JC22206-3.1.1	Rebecca Gluckman	Extract Storage	06/16/16 21:22	Return to Storage
JC22206-3.1.1	Extract Storage	Julius Johnson	06/23/16 17:34	Retrieve from Storage
JC22206-3.1.1	Julius Johnson	GCMSF	06/23/16 17:34	Load on Instrument
JC22206-3.1.1	GCMSF	Kristi Schollenberger	06/26/16 14:22	Unload from Instrument
JC22206-3.1.1	Kristi Schollenberger	Extract Freezer	06/26/16 14:23	Return to Storage
JC22206-3.1.1	Extract Freezer	Linsey Kirschmann	06/28/16 10:14	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-3.1.1	Linsey Kirschmann	GCMS4M	06/28/16 10:14	Load on Instrument
JC22206-3.1.1	GCMS4M	Linsey Kirschmann	07/01/16 15:56	Unload from Instrument
JC22206-3.1.1	Linsey Kirschmann	Extract Freezer	07/01/16 15:56	Return to Storage
JC22206-3.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-3.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-3.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-3.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-3.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-3.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-3.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-3.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-3.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-3.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-3.9	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-3.9	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-3.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-3.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-3.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-3.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-3.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-3.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-4.1	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-4.1	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-4.1	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-4.1	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-4.1.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-4.1
JC22206-4.1.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-4.1
JC22206-4.1.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-4.1.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-4.1.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-4.2	Secured Storage	Eric Chiles	06/30/16 10:02	Retrieve from Storage
JC22206-4.2	Eric Chiles		06/30/16 12:50	Depleted

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Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-4.2.1	Eric Chiles	Organics Prep	06/30/16 10:02	Extract from JC22206-4.2
JC22206-4.2.1	Organics Prep	Nicholas Goydish	06/30/16 14:15	Extract from JC22206-4.2
JC22206-4.2.1	Nicholas Goydish	Extract Storage	06/30/16 14:15	Return to Storage
JC22206-4.2.1	Extract Storage	Julius Johnson	07/01/16 00:13	Retrieve from Storage
JC22206-4.2.1	Julius Johnson	GCMS4M	07/01/16 00:13	Load on Instrument
JC22206-4.2.1	GCMS4M	Linsey Kirschmann	07/01/16 15:56	Unload from Instrument
JC22206-4.2.1	Linsey Kirschmann	Extract Freezer	07/01/16 15:56	Return to Storage
JC22206-4.2.2	Eric Chiles	Organics Prep	06/30/16 10:07	Extract from JC22206-4.2
JC22206-4.3	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-4.3	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-4.3	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-4.3	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-4.3.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-4.3
JC22206-4.3.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-4.3
JC22206-4.3.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-4.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-4.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-4.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-4.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-4.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-4.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-4.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-4.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-4.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-4.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-4.10	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-4.10	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-4.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-4.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-4.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-4.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract

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Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-4.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-4.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-5.1	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-5.1	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-5.1	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-5.1	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-5.1.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-5.1
JC22206-5.1.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-5.1
JC22206-5.1.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-5.1.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-5.1.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-5.2	Secured Storage	Eric Chiles	06/30/16 10:02	Retrieve from Storage
JC22206-5.2	Eric Chiles		06/30/16 12:50	Depleted
JC22206-5.2.1	Eric Chiles	Organics Prep	06/30/16 10:02	Extract from JC22206-5.2
JC22206-5.2.1	Organics Prep	Nicholas Goydish	06/30/16 14:15	Extract from JC22206-5.2
JC22206-5.2.1	Nicholas Goydish	Extract Storage	06/30/16 14:15	Return to Storage
JC22206-5.2.1	Extract Storage	Julius Johnson	07/01/16 00:13	Retrieve from Storage
JC22206-5.2.1	Julius Johnson	GCMS4M	07/01/16 00:13	Load on Instrument
JC22206-5.2.1	GCMS4M	Linsey Kirschmann	07/01/16 15:56	Unload from Instrument
JC22206-5.2.1	Linsey Kirschmann	Extract Freezer	07/01/16 15:56	Return to Storage
JC22206-5.2.2	Eric Chiles	Organics Prep	06/30/16 10:07	Extract from JC22206-5.2
JC22206-5.3	Secured Storage	Folarin Adedeji	06/17/16 18:14	Retrieve from Storage
JC22206-5.3	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-5.3.1	Folarin Adedeji	Organics Prep	06/17/16 18:14	Extract from JC22206-5.3
JC22206-5.3.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-5.3
JC22206-5.3.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-5.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-5.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-5.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-5.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-5.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-5.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-5.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage

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Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-5.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-5.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-5.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-5.9	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-5.9	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-5.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-5.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-5.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-5.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-5.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-5.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-6.2	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-6.2	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-6.2	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-6.2	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-6.2.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-6.2
JC22206-6.2.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-6.2
JC22206-6.2.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-6.2.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-6.2.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-6.3	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-6.3	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-6.3	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-6.3	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-6.3.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-6.3
JC22206-6.3.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-6.3
JC22206-6.3.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-6.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-6.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-6.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-6.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-6.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage

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Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-6.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-6.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-6.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-6.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-6.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-6.9	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-6.9	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-6.11	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-6.11	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-6.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-6.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-6.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-6.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-7.2	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-7.2	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-7.2	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-7.2	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-7.2.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-7.2
JC22206-7.2.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-7.2
JC22206-7.2.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-7.2.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-7.2.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-7.3	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-7.3	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-7.3	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-7.3	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-7.3.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-7.3
JC22206-7.3.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-7.3
JC22206-7.3.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-7.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-7.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-7.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage

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Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-7.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-7.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-7.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-7.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-7.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-7.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-7.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-7.11	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-7.11	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-7.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-7.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-7.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-7.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-7.15	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-7.15	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-8.1	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-8.1	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-8.1	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-8.1	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-8.1.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-8.1
JC22206-8.1.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-8.1
JC22206-8.1.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-8.2	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-8.2	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-8.2	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-8.2	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-8.2.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-8.2
JC22206-8.2.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-8.2
JC22206-8.2.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-8.2.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-8.2.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-8.3	Secured Storage	Ryan Fantasia	06/28/16 14:51	Retrieve from Storage

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Project: BMSMC, Building 5 Area, PR
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Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-8.3	Ryan Fantasia		06/28/16 22:16	Depleted
JC22206-8.3.1	Ryan Fantasia	Organics Prep	06/28/16 17:12	Extract from JC22206-8.3
JC22206-8.3.1	Organics Prep	Ryan Fantasia	06/28/16 22:24	Extract from JC22206-8.3
JC22206-8.3.1	Ryan Fantasia	Extract Storage	06/28/16 22:24	Return to Storage
JC22206-8.3.1	Extract Storage	Arielle Cocozza	06/29/16 15:02	Retrieve from Storage
JC22206-8.3.1	Arielle Cocozza	GCMSZ	06/29/16 15:02	Load on Instrument
JC22206-8.3.1	GCMSZ	Julius Johnson	06/29/16 21:54	Unload from Instrument
JC22206-8.3.1	Julius Johnson	GCMS3M	06/29/16 21:54	Load on Instrument
JC22206-8.3.1	GCMS3M	Linsey Kirschmann	07/06/16 09:19	Unload from Instrument
JC22206-8.3.1	Linsey Kirschmann	Extract Freezer	07/06/16 09:19	Return to Storage
JC22206-8.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-8.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-8.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-8.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-8.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-8.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-8.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-8.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-8.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-8.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-8.9	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-8.9	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-8.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-8.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-8.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-8.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-8.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-8.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.1	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-9.1	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-9.1	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-9.1	Folarin Adedeji		06/17/16 19:12	Depleted

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-9.1.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-9.1
JC22206-9.1.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-9.1
JC22206-9.1.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-9.2	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-9.2	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-9.2	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-9.2	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-9.2.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-9.2
JC22206-9.2.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-9.2
JC22206-9.2.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-9.3	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-9.3	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-9.3	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-9.3	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-9.3.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-9.3
JC22206-9.3.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-9.3
JC22206-9.3.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-9.4	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-9.4	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-9.4	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-9.4	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-9.4.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-9.4
JC22206-9.4.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-9.4
JC22206-9.4.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-9.4.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-9.4.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-9.6	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-9.6	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-9.6	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-9.6	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-9.7	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-9.7	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-9.7	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-9.7	Folarin Adedeji	Secured Storage	06/18/16 12:20	Return to Storage
JC22206-9.8	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-9.8	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-9.8	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-9.8	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-9.9	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-9.9	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-9.9	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-9.9	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-9.10	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.10	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.11	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.11	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.15	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.15	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.16	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.16	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.17	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.17	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.18	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.18	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.19	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.19	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.20	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.20	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.21	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.21	Bernadette Vassilatos		06/21/16 09:09	Subcontract

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-9.22	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.22	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.23	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.23	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.24	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-9.24	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-9.28	Secured Storage	Xu Liu	06/20/16 10:16	Retrieve from Storage
JC22206-9.28	Xu Liu	Secured Storage	06/20/16 11:00	Return to Storage
JC22206-9.29	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-9.29	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-9.34	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.34	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.35	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.35	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.36	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.36	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.37	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.37	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.38	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.38	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.39	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.39	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.40	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.40	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.41	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.41	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-9.42	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-9.42	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-10.1	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-10.1	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-10.1	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-10.1	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-10.1.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-10.1
JC22206-10.1.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-10.1
JC22206-10.1.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-10.1.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-10.1.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-10.3	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-10.3	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-10.3	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-10.3	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-10.3.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-10.3
JC22206-10.3.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-10.3
JC22206-10.3.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-10.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-10.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-10.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-10.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-10.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-10.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-10.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-10.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-10.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-10.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-10.10	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-10.10	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-10.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-10.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-10.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-10.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-10.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-10.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-11.2	Secured Storage	Brian Johnson	06/17/16 05:17	Retrieve from Storage
JC22206-11.2	Brian Johnson	Nicholas Goydish	06/17/16 15:02	Custody Transfer
JC22206-11.2	Nicholas Goydish	Folarin Adedeji	06/17/16 15:06	Custody Transfer
JC22206-11.2	Folarin Adedeji		06/17/16 19:12	Depleted
JC22206-11.2.1	Brian Johnson	Organics Prep	06/17/16 05:21	Extract from JC22206-11.2
JC22206-11.2.1	Organics Prep	Folarin Adedeji	06/17/16 19:09	Extract from JC22206-11.2
JC22206-11.2.1	Folarin Adedeji	Extract Storage	06/17/16 19:09	Return to Storage
JC22206-11.3	Secured Storage	Luis Villanueva	06/17/16 10:16	Retrieve from Storage
JC22206-11.3	Luis Villanueva	Secured Staging Area	06/17/16 10:16	Return to Storage
JC22206-11.3	Secured Staging Area	Ryan Fantasia	06/17/16 14:50	Retrieve from Storage
JC22206-11.3	Ryan Fantasia		06/17/16 23:26	Depleted
JC22206-11.3.1	Ryan Fantasia	Organics Prep	06/17/16 15:02	Extract from JC22206-11.3
JC22206-11.3.1	Organics Prep	Stephen Domke	06/17/16 23:30	Extract from JC22206-11.3
JC22206-11.3.1	Stephen Domke	Extract Storage	06/17/16 23:30	Return to Storage
JC22206-11.3.1	Extract Storage	Dhara Saparia	06/27/16 16:37	Retrieve from Storage
JC22206-11.3.1	Dhara Saparia	GC6G	06/27/16 16:37	Load on Instrument
JC22206-11.4	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-11.4	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-11.5	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-11.5	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-11.6	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-11.6	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-11.7	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-11.7	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-11.8	Secured Storage	Bernadette Vassilatos	06/21/16 09:08	Retrieve from Storage
JC22206-11.8	Bernadette Vassilatos		06/21/16 09:09	Subcontract
JC22206-11.10	Secured Storage	Xu Liu	06/16/16 10:48	Retrieve from Storage
JC22206-11.10	Xu Liu	Secured Storage	06/16/16 15:11	Return to Storage
JC22206-11.12	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-11.12	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-11.13	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 06/15/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC22206-11.13	Bernadette Vassilatos		06/21/16 08:44	Subcontract
JC22206-11.14	Secured Storage	Bernadette Vassilatos	06/21/16 08:44	Retrieve from Storage
JC22206-11.14	Bernadette Vassilatos		06/21/16 08:44	Subcontract

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-MB1	F158099.D	1	06/20/16	BP	06/16/16	OP94835	EF6657

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

JC22206-1, JC22206-2, JC22206-3

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-MB1	F158099.D	1	06/20/16	BP	06/16/16	OP94835	EF6657

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

JC22206-1, JC22206-2, JC22206-3

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-MB1	F158099.D	1	06/20/16	BP	06/16/16	OP94835	EF6657

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	14-88%
4165-62-2	Phenol-d5	32%	10-110%
118-79-6	2,4,6-Tribromophenol	97%	39-149%
4165-60-0	Nitrobenzene-d5	70%	32-128%
321-60-8	2-Fluorobiphenyl	76%	35-119%
1718-51-0	Terphenyl-d14	91%	10-126%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.03	4.2	ug/l	J
	system artifact	2.30	20	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-MB1	F158372.D	1	06/27/16	BP	06/17/16	OP94859	EF6666

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-MB1	F158372.D	1	06/27/16	BP	06/17/16	OP94859	EF6666

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-MB1	F158372.D	1	06/27/16	BP	06/17/16	OP94859	EF6666

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	14-88%
4165-62-2	Phenol-d5	30%	10-110%
118-79-6	2,4,6-Tribromophenol	99%	39-149%
4165-60-0	Nitrobenzene-d5	80%	32-128%
321-60-8	2-Fluorobiphenyl	78%	35-119%
1718-51-0	Terphenyl-d14	92%	10-126%

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835A-MB1	4M66272.D	1	06/22/16	LK	06/16/16	OP94835A	E4M2978

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

JC22206-1, JC22206-2, JC22206-3

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
367-12-4	2-Fluorophenol	50%	14-81%
4165-62-2	Phenol-d5	35%	11-54%
118-79-6	2,4,6-Tribromophenol	102%	35-145%
4165-60-0	Nitrobenzene-d5	77%	24-125%
321-60-8	2-Fluorobiphenyl	78%	19-127%
1718-51-0	Terphenyl-d14	92%	10-119%

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859A-MB1	4M66390.D	1	06/27/16	LK	06/17/16	OP94859A	E4M2984

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

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	0.564	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	79%	24-125%
321-60-8	2-Fluorobiphenyl	73%	19-127%
1718-51-0	Terphenyl-d14	90%	10-119%

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859A-MB1	3M62585.D	1	06/28/16	LK	06/17/16	OP94859A	E3M2954

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

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	0.401	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	24-125%
321-60-8	2-Fluorobiphenyl	62%	19-127%
1718-51-0	Terphenyl-d14	85%	10-119%

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859A-MB1	2M85121.D	1	06/28/16	AN	06/17/16	OP94859A	E2M3754

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

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	70%	24-125%
321-60-8	2-Fluorobiphenyl	75%	19-127%
1718-51-0	Terphenyl-d14	85%	10-119%

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-BS1	F158100.D	1	06/20/16	BP	06/16/16	OP94835	EF6657

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	34.7	69	48-106
59-50-7	4-Chloro-3-methyl phenol	50	34.4	69	49-113
120-83-2	2,4-Dichlorophenol	50	35.4	71	49-111
105-67-9	2,4-Dimethylphenol	50	32.6	65	42-117
51-28-5	2,4-Dinitrophenol	100	91.4	91	37-132
534-52-1	4,6-Dinitro-o-cresol	50	41.5	83	49-119
95-48-7	2-Methylphenol	50	31.7	63	42-103
	3&4-Methylphenol	50	29.0	58	39-110
88-75-5	2-Nitrophenol	50	37.9	76	49-114
100-02-7	4-Nitrophenol	50	26.9	54	16-95
87-86-5	Pentachlorophenol	50	43.8	88	30-136
108-95-2	Phenol	50	19.3	39	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	42.3	85	47-118
95-95-4	2,4,5-Trichlorophenol	50	38.1	76	55-116
88-06-2	2,4,6-Trichlorophenol	50	41.8	84	56-115
83-32-9	Acenaphthene	50	36.4	73	54-112
208-96-8	Acenaphthylene	50	35.9	72	49-99
98-86-2	Acetophenone	50	36.3	73	52-111
120-12-7	Anthracene	50	37.4	75	58-112
1912-24-9	Atrazine	50	60.6	121	62-134
100-52-7	Benzaldehyde	50	43.2	86	40-129
56-55-3	Benzo(a)anthracene	50	39.4	79	44-120
50-32-8	Benzo(a)pyrene	50	42.9	86	41-127
205-99-2	Benzo(b)fluoranthene	50	42.0	84	41-129
191-24-2	Benzo(g,h,i)perylene	50	40.5	81	34-128
207-08-9	Benzo(k)fluoranthene	50	41.2	82	42-122
101-55-3	4-Bromophenyl phenyl ether	50	41.6	83	54-121
85-68-7	Butyl benzyl phthalate	50	42.0	84	20-143
92-52-4	1,1'-Biphenyl	50	39.6	79	51-106
91-58-7	2-Chloronaphthalene	50	36.2	72	48-104
106-47-8	4-Chloroaniline	50	30.2	60	10-110
86-74-8	Carbazole	50	39.3	79	56-110
105-60-2	Caprolactam	50	9.8	20	10-110
218-01-9	Chrysene	50	36.8	74	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	30.8	62	47-117
111-44-4	bis(2-Chloroethyl)ether	50	33.6	67	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-BS1	F158100.D	1	06/20/16	BP	06/16/16	OP94835	EF6657

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	32.6	65	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	37.9	76	50-117
121-14-2	2,4-Dinitrotoluene	50	43.6	87	57-122
606-20-2	2,6-Dinitrotoluene	50	43.8	88	58-122
91-94-1	3,3'-Dichlorobenzidine	100	72.4	72	10-110
123-91-1	1,4-Dioxane	50	18.9	38	10-110
53-70-3	Dibenzo(a,h)anthracene	50	41.6	83	36-130
132-64-9	Dibenzofuran	50	37.3	75	55-108
84-74-2	Di-n-butyl phthalate	50	42.0	84	45-123
117-84-0	Di-n-octyl phthalate	50	39.5	79	37-144
84-66-2	Diethyl phthalate	50	37.8	76	23-130
131-11-3	Dimethyl phthalate	50	37.7	75	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	38.0	76	36-138
206-44-0	Fluoranthene	50	39.9	80	58-116
86-73-7	Fluorene	50	37.0	74	57-113
118-74-1	Hexachlorobenzene	50	39.7	79	49-122
87-68-3	Hexachlorobutadiene	50	29.7	59	24-112
77-47-4	Hexachlorocyclopentadiene	100	76.3	76	14-119
67-72-1	Hexachloroethane	50	30.8	62	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.6	85	34-128
78-59-1	Isophorone	50	30.7	61	52-119
90-12-0	1-Methylnaphthalene	50	35.3	71	46-103
91-57-6	2-Methylnaphthalene	50	32.8	66	45-107
88-74-4	2-Nitroaniline	50	34.7	69	51-127
99-09-2	3-Nitroaniline	50	38.9	78	10-110
100-01-6	4-Nitroaniline	50	42.9	86	50-112
98-95-3	Nitrobenzene	50	27.9	56	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	26.6	53	49-117
86-30-6	N-Nitrosodiphenylamine	50	39.6	79	51-113
85-01-8	Phenanthrene	50	37.1	74	56-111
129-00-0	Pyrene	50	39.3	79	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	40.5	81	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-BS1	F158100.D	1	06/20/16	BP	06/16/16	OP94835	EF6657

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	56%	14-88%
4165-62-2	Phenol-d5	37%	10-110%
118-79-6	2,4,6-Tribromophenol	96%	39-149%
4165-60-0	Nitrobenzene-d5	65%	32-128%
321-60-8	2-Fluorobiphenyl	78%	35-119%
1718-51-0	Terphenyl-d14	91%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-BS1	F158373.D	1	06/27/16	BP	06/17/16	OP94859	EF6666

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	36.8	74	48-106
59-50-7	4-Chloro-3-methyl phenol	50	37.9	76	49-113
120-83-2	2,4-Dichlorophenol	50	38.9	78	49-111
105-67-9	2,4-Dimethylphenol	50	35.4	71	42-117
51-28-5	2,4-Dinitrophenol	100	103	103	37-132
534-52-1	4,6-Dinitro-o-cresol	50	44.4	89	49-119
95-48-7	2-Methylphenol	50	33.3	67	42-103
	3&4-Methylphenol	50	31.4	63	39-110
88-75-5	2-Nitrophenol	50	41.3	83	49-114
100-02-7	4-Nitrophenol	50	27.1	54	16-95
87-86-5	Pentachlorophenol	50	48.9	98	30-136
108-95-2	Phenol	50	19.3	39	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	48.8	98	47-118
95-95-4	2,4,5-Trichlorophenol	50	43.7	87	55-116
88-06-2	2,4,6-Trichlorophenol	50	45.0	90	56-115
83-32-9	Acenaphthene	50	38.8	78	54-112
208-96-8	Acenaphthylene	50	39.0	78	49-99
98-86-2	Acetophenone	50	40.8	82	52-111
120-12-7	Anthracene	50	40.0	80	58-112
1912-24-9	Atrazine	50	64.5	129	62-134
100-52-7	Benzaldehyde	50	46.3	93	40-129
56-55-3	Benzo(a)anthracene	50	42.7	85	44-120
50-32-8	Benzo(a)pyrene	50	46.1	92	41-127
205-99-2	Benzo(b)fluoranthene	50	44.9	90	41-129
191-24-2	Benzo(g,h,i)perylene	50	44.1	88	34-128
207-08-9	Benzo(k)fluoranthene	50	44.1	88	42-122
101-55-3	4-Bromophenyl phenyl ether	50	43.7	87	54-121
85-68-7	Butyl benzyl phthalate	50	45.9	92	20-143
92-52-4	1,1'-Biphenyl	50	41.8	84	51-106
91-58-7	2-Chloronaphthalene	50	38.9	78	48-104
106-47-8	4-Chloroaniline	50	26.1	52	10-110
86-74-8	Carbazole	50	43.0	86	56-110
105-60-2	Caprolactam	50	11.7	23	10-110
218-01-9	Chrysene	50	39.8	80	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	35.4	71	47-117
111-44-4	bis(2-Chloroethyl)ether	50	39.1	78	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-BS1	F158373.D	1	06/27/16	BP	06/17/16	OP94859	EF6666

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	34.3	69	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	41.0	82	50-117
121-14-2	2,4-Dinitrotoluene	50	48.8	98	57-122
606-20-2	2,6-Dinitrotoluene	50	49.0	98	58-122
91-94-1	3,3'-Dichlorobenzidine	100	66.9	67	10-110
123-91-1	1,4-Dioxane	50	20.0	40	10-110
53-70-3	Dibenzo(a,h)anthracene	50	45.0	90	36-130
132-64-9	Dibenzofuran	50	40.0	80	55-108
84-74-2	Di-n-butyl phthalate	50	46.5	93	45-123
117-84-0	Di-n-octyl phthalate	50	42.6	85	37-144
84-66-2	Diethyl phthalate	50	42.4	85	23-130
131-11-3	Dimethyl phthalate	50	41.4	83	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	40.7	81	36-138
206-44-0	Fluoranthene	50	44.9	90	58-116
86-73-7	Fluorene	50	40.0	80	57-113
118-74-1	Hexachlorobenzene	50	42.5	85	49-122
87-68-3	Hexachlorobutadiene	50	32.9	66	24-112
77-47-4	Hexachlorocyclopentadiene	100	78.5	79	14-119
67-72-1	Hexachloroethane	50	34.5	69	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	45.7	91	34-128
78-59-1	Isophorone	50	36.6	73	52-119
90-12-0	1-Methylnaphthalene	50	37.0	74	46-103
91-57-6	2-Methylnaphthalene	50	34.7	69	45-107
88-74-4	2-Nitroaniline	50	47.1	94	51-127
99-09-2	3-Nitroaniline	50	37.4	75	10-110
100-01-6	4-Nitroaniline	50	47.0	94	50-112
98-95-3	Nitrobenzene	50	33.6	67	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	36.3	73	49-117
86-30-6	N-Nitrosodiphenylamine	50	41.8	84	51-113
85-01-8	Phenanthrene	50	39.2	78	56-111
129-00-0	Pyrene	50	41.3	83	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	44.3	89	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-BS1	F158373.D	1	06/27/16	BP	06/17/16	OP94859	EF6666

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	55%	14-88%
4165-62-2	Phenol-d5	37%	10-110%
118-79-6	2,4,6-Tribromophenol	103%	39-149%
4165-60-0	Nitrobenzene-d5	75%	32-128%
321-60-8	2-Fluorobiphenyl	83%	35-119%
1718-51-0	Terphenyl-d14	96%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835A-BS12	4M66273.D	1	06/22/16	LK	06/16/16	OP94835A	E4M2978

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.846	85	40-119
123-91-1	1,4-Dioxane	1	0.413	41	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	14-81%
4165-62-2	Phenol-d5	35%	11-54%
118-79-6	2,4,6-Tribromophenol	115%	35-145%
4165-60-0	Nitrobenzene-d5	81%	24-125%
321-60-8	2-Fluorobiphenyl	81%	19-127%
1718-51-0	Terphenyl-d14	95%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859A-BS12	4M66391.D	1	06/27/16	LK	06/17/16	OP94859A	E4M2984

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.757	76	40-119
123-91-1	1,4-Dioxane	1	0.331	33	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	24-125%
321-60-8	2-Fluorobiphenyl	74%	19-127%
1718-51-0	Terphenyl-d14	94%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-MS	F158171.D	1	06/21/16	BP	06/16/16	OP94835	EF6659
OP94835-MSD	F158172.D	1	06/21/16	BP	06/16/16	OP94835	EF6659
JC22206-1	F158276.D	1	06/23/16	BP	06/16/16	OP94835	EF6662

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Compound	JC22206-1 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		52.1	34.8	67	50.5	34.8	69	0	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		52.1	35.7	69	50.5	38.9	77	9	44-121/18
120-83-2	2,4-Dichlorophenol	ND		52.1	37.3	72	50.5	38.8	77	4	42-120/19
105-67-9	2,4-Dimethylphenol	ND		52.1	31.8	61	50.5	35.2	70	10	33-132/23
51-28-5	2,4-Dinitrophenol	ND		104	82.8	79	101	97.2	96	16	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		52.1	37.2	71	50.5	43.3	86	15	25-134/27
95-48-7	2-Methylphenol	ND		52.1	31.5	60	50.5	31.8	63	1	47-112/18
	3&4-Methylphenol	ND		52.1	29.6	57	50.5	30.1	60	2	44-113/19
88-75-5	2-Nitrophenol	ND		52.1	39.4	76	50.5	40.3	80	2	45-118/20
100-02-7	4-Nitrophenol	ND		52.1	30.6	59	50.5	32.8	65	7	23-144/28
87-86-5	Pentachlorophenol	ND		52.1	45.8	88	50.5	52.4	104	13	25-151/25
108-95-2	Phenol	ND		52.1	19.3	37	50.5	18.6	37	4	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		52.1	45.3	87	50.5	51.2	101	12	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		52.1	39.4	76	50.5	43.9	87	11	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		52.1	42.6	82	50.5	46.9	93	10	53-120/21
83-32-9	Acenaphthene	ND		52.1	36.5	70	50.5	40.3	80	10	52-120/23
208-96-8	Acenaphthylene	ND		52.1	36.2	70	50.5	40.3	80	11	50-101/22
98-86-2	Acetophenone	ND		52.1	36.6	70	50.5	37.9	75	3	31-141/23
120-12-7	Anthracene	ND		52.1	37.9	73	50.5	41.9	83	10	54-117/22
1912-24-9	Atrazine	ND		52.1	62.3	120	50.5	69.5	138	11	42-152/23
100-52-7	Benzaldehyde	ND		52.1	40.8	78	50.5	40.1	79	2	10-164/30
56-55-3	Benzo(a)anthracene	ND		52.1	40.3	77	50.5	43.9	87	9	40-123/24
50-32-8	Benzo(a)pyrene	ND		52.1	42.6	82	50.5	46.4	92	9	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		52.1	40.6	78	50.5	45.3	90	11	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		52.1	39.7	76	50.5	40.7	81	2	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		52.1	40.1	77	50.5	43.0	85	7	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		52.1	41.9	80	50.5	45.0	89	7	51-124/23
85-68-7	Butyl benzyl phthalate	ND		52.1	43.6	84	50.5	47.0	93	8	21-146/28
92-52-4	1,1'-Biphenyl	ND		52.1	38.9	75	50.5	42.9	85	10	27-142/23
91-58-7	2-Chloronaphthalene	ND		52.1	35.3	68	50.5	39.1	77	10	51-109/23
106-47-8	4-Chloroaniline	7.5		52.1	27.6	39	50.5	26.8	38	3	10-110/55
86-74-8	Carbazole	ND		52.1	40.1	77	50.5	44.7	89	11	52-116/22
105-60-2	Caprolactam	ND		52.1	10.9	21	50.5	10.5	21	4	10-106/34
218-01-9	Chrysene	ND		52.1	37.1	71	50.5	40.2	80	8	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		52.1	30.4	58	50.5	31.6	63	4	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		52.1	32.8	63	50.5	33.0	65	1	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-MS	F158171.D	1	06/21/16	BP	06/16/16	OP94835	EF6659
OP94835-MSD	F158172.D	1	06/21/16	BP	06/16/16	OP94835	EF6659
JC22206-1	F158276.D	1	06/23/16	BP	06/16/16	OP94835	EF6662

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Compound	JC22206-1 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		52.1	32.4	62	50.5	32.2	64	1	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		52.1	39.2	75	50.5	43.3	86	10	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		52.1	45.7	88	50.5	51.2	101	11	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		52.1	45.2	87	50.5	49.7	98	9	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		104	74.0	71	101	80.8	80	9	10-107/47
123-91-1	1,4-Dioxane	13.6		52.1	28.6	29	50.5	25.4	23	12	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		52.1	40.9	79	50.5	43.0	85	5	35-130/27
132-64-9	Dibenzofuran	ND		52.1	37.0	71	50.5	41.3	82	11	53-112/22
84-74-2	Di-n-butyl phthalate	ND		52.1	43.0	83	50.5	47.8	95	11	38-129/23
117-84-0	Di-n-octyl phthalate	ND		52.1	40.2	77	50.5	44.0	87	9	35-145/26
84-66-2	Diethyl phthalate	ND		52.1	39.0	75	50.5	43.8	87	12	16-136/30
131-11-3	Dimethyl phthalate	ND		52.1	38.2	73	50.5	42.1	83	10	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		52.1	39.2	75	50.5	41.7	83	6	34-141/28
206-44-0	Fluoranthene	ND		52.1	41.6	80	50.5	46.2	91	10	47-123/24
86-73-7	Fluorene	ND		52.1	38.8	74	50.5	42.9	85	10	56-117/22
118-74-1	Hexachlorobenzene	ND		52.1	38.7	74	50.5	42.3	84	9	46-125/24
87-68-3	Hexachlorobutadiene	ND		52.1	33.3	64	50.5	33.1	66	1	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		104	73.1	70	101	78.5	78	7	10-133/31
67-72-1	Hexachloroethane	ND		52.1	33.5	64	50.5	31.8	63	5	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		52.1	42.7	82	50.5	44.5	88	4	32-130/30
78-59-1	Isophorone	ND		52.1	30.3	58	50.5	32.4	64	7	47-126/23
90-12-0	1-Methylnaphthalene	ND		52.1	36.1	69	50.5	38.1	75	5	34-124/25
91-57-6	2-Methylnaphthalene	ND		52.1	33.4	64	50.5	35.0	69	5	34-123/24
88-74-4	2-Nitroaniline	ND		52.1	35.2	68	50.5	39.3	78	11	46-137/23
99-09-2	3-Nitroaniline	ND		52.1	37.2	71	50.5	38.9	77	4	10-110/50
100-01-6	4-Nitroaniline	ND		52.1	44.2	85	50.5	48.8	97	10	38-118/25
98-95-3	Nitrobenzene	ND		52.1	27.8	53	50.5	28.6	57	3	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		52.1	27.0	52	50.5	27.8	55	3	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		52.1	39.8	76	50.5	43.9	87	10	46-123/24
85-01-8	Phenanthrene	ND		52.1	37.2	71	50.5	41.0	81	10	48-121/23
129-00-0	Pyrene	ND		52.1	38.8	74	50.5	42.6	84	9	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		52.1	41.8	80	50.5	44.6	88	6	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835-MS	F158171.D	1	06/21/16	BP	06/16/16	OP94835	EF6659
OP94835-MSD	F158172.D	1	06/21/16	BP	06/16/16	OP94835	EF6659
JC22206-1	F158276.D	1	06/23/16	BP	06/16/16	OP94835	EF6662

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-1	Limits
367-12-4	2-Fluorophenol	54%	53%	44%	14-88%
4165-62-2	Phenol-d5	36%	37%	28%	10-110%
118-79-6	2,4,6-Tribromophenol	94%	104%	86%	39-149%
4165-60-0	Nitrobenzene-d5	62%	65%	64%	32-128%
321-60-8	2-Fluorobiphenyl	74%	83%	71%	35-119%
1718-51-0	Terphenyl-d14	85%	92%	74%	10-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-MS	F158417.D	1	06/28/16	JJ	06/17/16	OP94859	EF6667
OP94859-MSD	F158418.D	1	06/28/16	JJ	06/17/16	OP94859	EF6667
JC22206-9	F158389.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
JC22206-9	F158443.D	50	06/28/16	BP	06/17/16	OP94859	EF6668

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	JC22206-9 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		50	38.7	77	50	31.3	63	21* a	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		50	39.7	79	50	31.7	63	22* a	44-121/18
120-83-2	2,4-Dichlorophenol	ND		50	40.4	81	50	33.3	67	19	42-120/19
105-67-9	2,4-Dimethylphenol	ND		50	37.1	74	50	30.6	61	19	33-132/23
51-28-5	2,4-Dinitrophenol	ND		100	117	117	100	87.0	87	29* a	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		50	48.2	96	50	36.9	74	27	25-134/27
95-48-7	2-Methylphenol	ND		50	35.0	70	50	29.4	59	17	47-112/18
	3&4-Methylphenol	ND		50	34.2	68	50	28.7	57	17	44-113/19
88-75-5	2-Nitrophenol	ND		50	43.6	87	50	35.2	70	21* a	45-118/20
100-02-7	4-Nitrophenol	ND		50	32.3	65	50	25.1	50	25	23-144/28
87-86-5	Pentachlorophenol	ND		50	51.4	103	50	37.9	76	30* a	25-151/25
108-95-2	Phenol	ND		50	21.7	43	50	18.3	37	17	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		50	51.7	103	50	39.9	80	26* a	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		50	46.1	92	50	35.4	71	26* a	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		50	48.6	97	50	38.0	76	24* a	53-120/21
83-32-9	Acenaphthene	ND		50	41.0	82	50	32.0	64	25* a	52-120/23
208-96-8	Acenaphthylene	ND		50	41.2	82	50	32.0	64	25* a	50-101/22
98-86-2	Acetophenone	ND		50	43.0	86	50	34.8	70	21	31-141/23
120-12-7	Anthracene	ND		50	42.3	85	50	32.3	65	27* a	54-117/22
1912-24-9	Atrazine	ND		50	67.6	135	50	52.6	105	25* a	42-152/23
100-52-7	Benzaldehyde	ND		50	43.4	87	50	38.5	77	12	10-164/30
56-55-3	Benzo(a)anthracene	ND		50	44.6	89	50	34.1	68	27* a	40-123/24
50-32-8	Benzo(a)pyrene	ND		50	45.7	91	50	34.7	69	27* a	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		50	44.5	89	50	34.0	68	27	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		50	40.2	80	50	30.1	60	29* a	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		50	43.0	86	50	33.4	67	25	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		50	45.9	92	50	35.5	71	26* a	51-124/23
85-68-7	Butyl benzyl phthalate	ND		50	50.0	100	50	37.8	76	28	21-146/28
92-52-4	1,1'-Biphenyl	ND		50	44.5	89	50	35.4	71	23	27-142/23
91-58-7	2-Chloronaphthalene	ND		50	40.7	81	50	32.3	65	23	51-109/23
106-47-8	4-Chloroaniline	ND		50	18.2	36	50	22.3	45	20	10-110/55
86-74-8	Carbazole	ND		50	45.5	91	50	34.8	70	27* a	52-116/22
105-60-2	Caprolactam	ND		50	14.9	30	50	11.3	23	27	10-106/34
218-01-9	Chrysene	ND		50	40.5	81	50	31.5	63	25* a	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		50	37.2	74	50	30.6	61	19	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		50	40.6	81	50	32.7	65	22	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-MS	F158417.D	1	06/28/16	JJ	06/17/16	OP94859	EF6667
OP94859-MSD	F158418.D	1	06/28/16	JJ	06/17/16	OP94859	EF6667
JC22206-9	F158389.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
JC22206-9	F158443.D	50	06/28/16	BP	06/17/16	OP94859	EF6668

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	JC22206-9 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		50	36.6	73	50	29.2	58	22	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		50	43.0	86	50	34.0	68	23* [a]	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		50	52.4	105	50	39.2	78	29* [a]	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		50	52.7	105	50	40.1	80	27* [a]	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		100	53.8	54	100	54.2	54	1	10-107/47
123-91-1	1,4-Dioxane	1530 [c]		50	1090	-880* [b]	50	1020	-1020* [b]	7	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		50	42.6	85	50	31.7	63	29* [a]	35-130/27
132-64-9	Dibenzofuran	ND		50	42.5	85	50	33.0	66	25* [a]	53-112/22
84-74-2	Di-n-butyl phthalate	ND		50	49.6	99	50	37.6	75	28* [a]	38-129/23
117-84-0	Di-n-octyl phthalate	ND		50	45.9	92	50	34.5	69	28* [a]	35-145/26
84-66-2	Diethyl phthalate	ND		50	45.1	90	50	34.5	69	27	16-136/30
131-11-3	Dimethyl phthalate	ND		50	43.6	87	50	33.6	67	26	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		50	43.9	88	50	33.4	67	27	34-141/28
206-44-0	Fluoranthene	ND		50	46.4	93	50	35.6	71	26* [a]	47-123/24
86-73-7	Fluorene	ND		50	42.6	85	50	33.2	66	25* [a]	56-117/22
118-74-1	Hexachlorobenzene	ND		50	43.0	86	50	33.2	66	26* [a]	46-125/24
87-68-3	Hexachlorobutadiene	ND		50	32.9	66	50	28.0	56	16	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		100	84.0	84	100	64.1	64	27	10-133/31
67-72-1	Hexachloroethane	ND		50	36.0	72	50	29.2	58	21	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		50	43.1	86	50	32.1	64	29	32-130/30
78-59-1	Isophorone	ND		50	38.3	77	50	31.4	63	20	47-126/23
90-12-0	1-Methylnaphthalene	ND		50	38.9	78	50	32.1	64	19	34-124/25
91-57-6	2-Methylnaphthalene	ND		50	36.4	73	50	30.0	60	19	34-123/24
88-74-4	2-Nitroaniline	ND		50	50.4	101	50	39.0	78	26* [a]	46-137/23
99-09-2	3-Nitroaniline	ND		50	28.5	57	50	30.6	61	7	10-110/50
100-01-6	4-Nitroaniline	ND		50	49.8	100	50	37.6	75	28* [a]	38-118/25
98-95-3	Nitrobenzene	ND		50	35.9	72	50	29.1	58	21	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		50	38.1	76	50	30.7	61	22	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		50	44.8	90	50	34.5	69	26* [a]	46-123/24
85-01-8	Phenanthrene	ND		50	41.1	82	50	32.1	64	25* [a]	48-121/23
129-00-0	Pyrene	ND		50	43.5	87	50	33.6	67	26	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		50	45.3	91	50	36.4	73	22	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859-MS	F158417.D	1	06/28/16	JJ	06/17/16	OP94859	EF6667
OP94859-MSD	F158418.D	1	06/28/16	JJ	06/17/16	OP94859	EF6667
JC22206-9	F158389.D	1	06/27/16	BP	06/17/16	OP94859	EF6666
JC22206-9	F158443.D	50	06/28/16	BP	06/17/16	OP94859	EF6668

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-9	JC22206-9	Limits
367-12-4	2-Fluorophenol	60%	51%	54%	0%* d	14-88%
4165-62-2	Phenol-d5	42%	35%	34%	0%* d	10-110%
118-79-6	2,4,6-Tribromophenol	109%	85%	110%	0%* d	39-149%
4165-60-0	Nitrobenzene-d5	80%	66%	86%	0%* d	32-128%
321-60-8	2-Fluorobiphenyl	88%	69%	84%	0%* d	35-119%
1718-51-0	Terphenyl-d14	95%	74%	90%	0%* d	10-126%

(a) Analytical precision exceeds in-house control limits.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.
(d) Outside control limits due to dilution.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94835A-MS	4M66407.D	1	06/28/16	LK	06/16/16	OP94835A	E4M2986
OP94835A-MSD	4M66408.D	1	06/28/16	LK	06/16/16	OP94835A	E4M2986
JC22206-1	4M66456.D	1	06/29/16	LK	06/16/16	OP94835A	E4M2988

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

JC22206-1, JC22206-2, JC22206-3

CAS No.	Compound	JC22206-1 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		1.02	0.906	89	1.08	0.944	88	4	23-140/36
123-91-1	1,4-Dioxane	12.1	E	1.02	11.9	-20* [a]	1.08	13.2	102	10	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-1	Limits
367-12-4	2-Fluorophenol	39%	40%		14-81%
4165-62-2	Phenol-d5	27%	28%		11-54%
118-79-6	2,4,6-Tribromophenol	90%	94%		35-145%
4165-60-0	Nitrobenzene-d5	62%	64%	57%	24-125%
321-60-8	2-Fluorobiphenyl	50%	50%	52%	19-127%
1718-51-0	Terphenyl-d14	75%	82%	63%	10-119%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94859A-MS	4M66392.D	1	06/27/16	LK	06/17/16	OP94859A	E4M2984
OP94859A-MSD	4M66393.D	1	06/27/16	LK	06/17/16	OP94859A	E4M2984
JC22206-9	4M66472.D	1	06/29/16	LK	06/17/16	OP94859A	E4M2989

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

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	JC22206-9 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	0.846		1	0.758	0* [a]	1	0.826	0* [a]	9	23-140/36
123-91-1	1,4-Dioxane	448	E	1	475	2700* [b]	1	509	6100* [b]	7	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-9	Limits
4165-60-0	Nitrobenzene-d5	77%	84%	82%	24-125%
321-60-8	2-Fluorobiphenyl	73%	79%	88%	19-127%
1718-51-0	Terphenyl-d14	93%	92%	85%	10-119%

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

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3720-DFTPP
Lab File ID: 2M84432.D
Instrument ID: GCMS2M
Injection Date: 06/07/16
Injection Time: 09:17

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28076	45.0		Pass
68	Less than 2.0% of mass 69	578	0.93	(1.95) [a]	Pass
69	Mass 69 relative abundance	29659	47.6		Pass
70	Less than 2.0% of mass 69	163	0.26	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	34590	55.5		Pass
197	Less than 1.0% of mass 198	231	0.37		Pass
198	Base peak, 100% relative abundance	62365	100.0		Pass
199	5.0 - 9.0% of mass 198	4366	7.00		Pass
275	10.0 - 30.0% of mass 198	15903	25.5		Pass
365	1.0 - 100.0% of mass 198	3000	4.81		Pass
441	Present, but less than mass 443	5772	9.26	(77.1) [b]	Pass
442	40.0 - 100.0% of mass 198	38906	62.4		Pass
443	17.0 - 23.0% of mass 442	7487	12.0	(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
E2M3720-IC3720	2M84433.D	06/07/16	09:32	00:15	Initial cal 2
E2M3720-IC3720	2M84434.D	06/07/16	09:59	00:42	Initial cal 1
E2M3720-IC3720	2M84435.D	06/07/16	10:26	01:09	Initial cal 100
E2M3720-IC3720	2M84436.D	06/07/16	10:52	01:35	Initial cal 80
E2M3720-ICC3720	2M84437.D	06/07/16	11:18	02:01	Initial cal 50
E2M3720-IC3720	2M84438.D	06/07/16	11:45	02:28	Initial cal 25
E2M3720-IC3720	2M84439.D	06/07/16	12:11	02:54	Initial cal 10
E2M3720-IC3720	2M84440.D	06/07/16	12:37	03:20	Initial cal 5
E2M3720-ICV3720	2M84441.D	06/07/16	13:04	03:47	Initial cal verification 50
E2M3720-ICV3720	2M84442.D	06/07/16	13:30	04:13	Initial cal verification 50
E2M3720-ICV3720	2M84443.D	06/07/16	13:56	04:39	Initial cal verification 50
E2M3720-ICV3720	2M84444.D	06/07/16	14:23	05:06	Initial cal verification 50
E2M3720-ICV3720	2M84446.D	06/07/16	15:15	05:58	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E2M3754-DFTPP
Lab File ID: 2M85107.D
Instrument ID: GCMS2M
Injection Date: 06/28/16
Injection Time: 09:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	35314	47.2		Pass
68	Less than 2.0% of mass 69	552	0.74	(1.73) [a]	Pass
69	Mass 69 relative abundance	31975	42.7		Pass
70	Less than 2.0% of mass 69	261	0.35	(0.82) [a]	Pass
127	40.0 - 60.0% of mass 198	42834	57.3		Pass
197	Less than 1.0% of mass 198	740	0.99		Pass
198	Base peak, 100% relative abundance	74813	100.0		Pass
199	5.0 - 9.0% of mass 198	4542	6.07		Pass
275	10.0 - 30.0% of mass 198	20160	26.9		Pass
365	1.0 - 100.0% of mass 198	4586	6.13		Pass
441	Present, but less than mass 443	8383	11.2	(81.9) [b]	Pass
442	40.0 - 100.0% of mass 198	56266	75.2		Pass
443	17.0 - 23.0% of mass 442	10241	13.7	(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
E2M3754-CC3720	2M85108.D	06/28/16	10:09	00:17	Continuing cal 25
OP94952-MB2	2M85109.D	06/28/16	10:40	00:48	Method Blank
OP94952-LB13	2M85110.D	06/28/16	11:07	01:15	Leachate Blank
OP94952-LB17	2M85111.D	06/28/16	11:33	01:41	Leachate Blank
OP94952-BS2	2M85112.D	06/28/16	11:59	02:07	Blank Spike
ZZZZZZ	2M85115.D	06/28/16	13:19	03:27	(unrelated sample)
ZZZZZZ	2M85116.D	06/28/16	13:45	03:53	(unrelated sample)
ZZZZZZ	2M85117.D	06/28/16	14:54	05:02	(unrelated sample)
OP94859A-MB1	2M85121.D	06/28/16	16:14	06:22	Method Blank
ZZZZZZ	2M85122.D	06/28/16	16:41	06:49	(unrelated sample)
ZZZZZZ	2M85123.D	06/28/16	17:07	07:15	(unrelated sample)
OP95018A-MB1	2M85124.D	06/28/16	17:34	07:42	Method Blank
ZZZZZZ	2M85125.D	06/28/16	18:01	08:09	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2942-DFTPP
Lab File ID: 3M62370.D
Instrument ID: GCMS3M
Injection Date: 06/20/16
Injection Time: 18:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	142639	39.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	150640	42.2		Pass
70	Less than 2.0% of mass 69	131	0.04	(0.09) [a]	Pass
127	40.0 - 60.0% of mass 198	172819	48.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	357376	100.0		Pass
199	5.0 - 9.0% of mass 198	24760	6.93		Pass
275	10.0 - 30.0% of mass 198	82808	23.2		Pass
365	1.0 - 100.0% of mass 198	10751	3.01		Pass
441	Present, but less than mass 443	56707	15.9	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	352192	98.5		Pass
443	17.0 - 23.0% of mass 442	69907	19.6	(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
E3M2942-IC2942	3M62371.D	06/20/16	18:49	00:26	Initial cal 0.2
E3M2942-IC2942	3M62372.D	06/20/16	19:23	01:00	Initial cal 0.1
E3M2942-ICC2942	3M62373.D	06/20/16	19:56	01:33	Initial cal 1.0
E3M2942-IC2942	3M62374.D	06/20/16	20:30	02:07	Initial cal 0.5
E3M2942-IC2942	3M62376.D	06/20/16	21:36	03:13	Initial cal 0.02
E3M2942-IC2942	3M62377.D	06/20/16	22:10	03:47	Initial cal 0.01
E3M2942-IC2942	3M62378.D	06/20/16	22:43	04:20	Initial cal 5.0
E3M2942-IC2942	3M62379.D	06/20/16	23:16	04:53	Initial cal 2.5
E3M2942-IC2942	3M62380.D	06/20/16	23:50	05:27	Initial cal 0.05
E3M2942-ICV2942	3M62382.D	06/21/16	00:56	06:33	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2943-DFTPP
Lab File ID: 3M62383.D
Instrument ID: GCMS3M
Injection Date: 06/21/16
Injection Time: 09:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	139176	44.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	143977	45.7		Pass
70	Less than 2.0% of mass 69	932	0.30	(0.65) [a]	Pass
127	40.0 - 60.0% of mass 198	158565	50.3		Pass
197	Less than 1.0% of mass 198	1950	0.62		Pass
198	Base peak, 100% relative abundance	315368	100.0		Pass
199	5.0 - 9.0% of mass 198	21167	6.71		Pass
275	10.0 - 30.0% of mass 198	68458	21.7		Pass
365	1.0 - 100.0% of mass 198	9982	3.17		Pass
441	Present, but less than mass 443	40278	12.8	(86.4) [b]	Pass
442	40.0 - 100.0% of mass 198	257583	81.7		Pass
443	17.0 - 23.0% of mass 442	46645	14.8	(18.1) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2943-ICV2942	3M62384.D	06/21/16	09:26	00:20	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2954-DFTPP
Lab File ID: 3M62581.D
Instrument ID: GCMS3M
Injection Date: 06/28/16
Injection Time: 11:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	102397	36.6		Pass
68	Less than 2.0% of mass 69	208	0.07	(0.18) [a]	Pass
69	Mass 69 relative abundance	116907	41.8		Pass
70	Less than 2.0% of mass 69	313	0.11	(0.27) [a]	Pass
127	40.0 - 60.0% of mass 198	135187	48.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	280013	100.0		Pass
199	5.0 - 9.0% of mass 198	19854	7.09		Pass
275	10.0 - 30.0% of mass 198	66165	23.6		Pass
365	1.0 - 100.0% of mass 198	10264	3.67		Pass
441	Present, but less than mass 443	42853	15.3	(80.2) [b]	Pass
442	40.0 - 100.0% of mass 198	277669	99.2		Pass
443	17.0 - 23.0% of mass 442	53416	19.1	(19.2) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2954-CC2942	3M62582.D	06/28/16	11:50	00:29	Continuing cal .5
ZZZZZZ	3M62583.D	06/28/16	12:29	01:08	(unrelated sample)
ZZZZZZ	3M62584.D	06/28/16	13:02	01:41	(unrelated sample)
OP94859A-MB1	3M62585.D	06/28/16	13:35	02:14	Method Blank
ZZZZZZ	3M62586.D	06/28/16	14:09	02:48	(unrelated sample)
ZZZZZZ	3M62587.D	06/28/16	14:42	03:21	(unrelated sample)
ZZZZZZ	3M62588.D	06/28/16	15:16	03:55	(unrelated sample)
ZZZZZZ	3M62589.D	06/28/16	15:50	04:29	(unrelated sample)
ZZZZZZ	3M62590.D	06/28/16	16:23	05:02	(unrelated sample)
ZZZZZZ	3M62591.D	06/28/16	16:57	05:36	(unrelated sample)
OP94806A-MB1	3M62592.D	06/28/16	17:31	06:10	Method Blank
OP94806A-BS12	3M62593.D	06/28/16	18:04	06:43	Blank Spike
OP94806A-MS	3M62594.D	06/28/16	18:38	07:17	Matrix Spike
OP94806A-MSD	3M62595.D	06/28/16	19:11	07:50	Matrix Spike Duplicate
ZZZZZZ	3M62596.D	06/28/16	19:45	08:24	(unrelated sample)
JC22142-2	3M62597.D	06/28/16	20:18	08:57	(used for QC only; not part of job JC22206)
ZZZZZZ	3M62598.D	06/28/16	20:52	09:31	(unrelated sample)
ZZZZZZ	3M62599.D	06/28/16	21:25	10:04	(unrelated sample)
ZZZZZZ	3M62600.D	06/28/16	21:59	10:38	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3M2954-DFTPP	**Injection Date:**	06/28/16
Lab File ID:	3M62581.D	**Injection Time:**	11:21
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3M62601.D	06/28/16	22:32	11:11	(unrelated sample)
ZZZZZZ	3M62602.D	06/28/16	23:06	11:45	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2974-DFTPP
Lab File ID: 4M66179.D
Instrument ID: GCMS4M
Injection Date: 06/20/16
Injection Time: 22:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	58020	41.7		Pass
68	Less than 2.0% of mass 69	561	0.40	(0.91) [a]	Pass
69	Mass 69 relative abundance	61706	44.3		Pass
70	Less than 2.0% of mass 69	274	0.20	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	69656	50.0		Pass
197	Less than 1.0% of mass 198	387	0.28		Pass
198	Base peak, 100% relative abundance	139197	100.0		Pass
199	5.0 - 9.0% of mass 198	9146	6.57		Pass
275	10.0 - 30.0% of mass 198	28704	20.6		Pass
365	1.0 - 100.0% of mass 198	3401	2.44		Pass
441	Present, but less than mass 443	15333	11.0	(76.6) [b]	Pass
442	40.0 - 100.0% of mass 198	101275	72.8		Pass
443	17.0 - 23.0% of mass 442	20015	14.4	(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
E4M2974-IC2974	4M66181.D	06/20/16	23:01	00:55	Initial cal 0.1
E4M2974-IC2974	4M66182.D	06/20/16	23:31	01:25	Initial cal 0.2
E4M2974-IC2974	4M66183.D	06/21/16	00:01	01:55	Initial cal 0.5
E4M2974-ICC2974	4M66184.D	06/21/16	00:31	02:25	Initial cal 1.0
E4M2974-IC2974	4M66185.D	06/21/16	01:01	02:55	Initial cal 0.05
E4M2974-IC2974	4M66186.D	06/21/16	01:31	03:25	Initial cal 0.02
E4M2974-IC2974	4M66187.D	06/21/16	02:01	03:55	Initial cal 0.01
E4M2974-IC2974	4M66188.D	06/21/16	02:31	04:25	Initial cal 5.0
E4M2974-IC2974	4M66189.D	06/21/16	03:01	04:55	Initial cal 2.5
E4M2974-ICV2974	4M66190.D	06/21/16	03:30	05:24	Initial cal verification 1.0
E4M2974-ICV2974	4M66191.D	06/21/16	04:00	05:54	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2978-DFTPP
Lab File ID: 4M66258.D
Instrument ID: GCMS4M
Injection Date: 06/22/16
Injection Time: 14:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	53865	40.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	59085	44.1		Pass
70	Less than 2.0% of mass 69	109	0.08	(0.18) [a]	Pass
127	40.0 - 60.0% of mass 198	65256	48.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	133843	100.0		Pass
199	5.0 - 9.0% of mass 198	8454	6.32		Pass
275	10.0 - 30.0% of mass 198	31739	23.7		Pass
365	1.0 - 100.0% of mass 198	3772	2.82		Pass
441	Present, but less than mass 443	17840	13.3	(76.8) [b]	Pass
442	40.0 - 100.0% of mass 198	117821	88.0		Pass
443	17.0 - 23.0% of mass 442	23225	17.4	(19.7) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2978-CC2974	4M66259.D	06/22/16	14:51	00:13	Continuing cal .5
OP94977A-MB1	4M66260.D	06/22/16	15:24	00:46	Method Blank
OP94977A-BS12	4M66261.D	06/22/16	15:56	01:18	Blank Spike
OP94977A-BSD12	4M66262.D	06/22/16	16:28	01:50	Blank Spike Duplicate
ZZZZZZ	4M66263.D	06/22/16	17:00	02:22	(unrelated sample)
ZZZZZZ	4M66264.D	06/22/16	17:31	02:53	(unrelated sample)
ZZZZZZ	4M66265.D	06/22/16	18:03	03:25	(unrelated sample)
ZZZZZZ	4M66266.D	06/22/16	18:35	03:57	(unrelated sample)
ZZZZZZ	4M66267.D	06/22/16	19:07	04:29	(unrelated sample)
ZZZZZZ	4M66268.D	06/22/16	19:38	05:00	(unrelated sample)
ZZZZZZ	4M66269.D	06/22/16	20:08	05:30	(unrelated sample)
OP94835A-MB1	4M66272.D	06/22/16	21:42	07:04	Method Blank
OP94835A-BS12	4M66273.D	06/22/16	22:13	07:35	Blank Spike
ZZZZZZ	4M66274.D	06/22/16	22:43	08:05	(unrelated sample)
ZZZZZZ	4M66275.D	06/22/16	23:13	08:35	(unrelated sample)
ZZZZZZ	4M66276.D	06/22/16	23:44	09:06	(unrelated sample)
ZZZZZZ	4M66277.D	06/23/16	00:14	09:36	(unrelated sample)
ZZZZZZ	4M66278.D	06/23/16	00:44	10:06	(unrelated sample)
ZZZZZZ	4M66279.D	06/23/16	01:14	10:36	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E4M2978-DFTPP	**Injection Date:**	06/22/16
Lab File ID:	4M66258.D	**Injection Time:**	14:38
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2978-ECC2974	4M66280.D	06/23/16	01:44	11:06	Ending cal .5

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2984-DFTPP
Lab File ID: 4M66378.D
Instrument ID: GCMS4M
Injection Date: 06/27/16
Injection Time: 10:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28822	39.1		Pass
68	Less than 2.0% of mass 69	86	0.12	(0.25) [a]	Pass
69	Mass 69 relative abundance	33951	46.1		Pass
70	Less than 2.0% of mass 69	151	0.20	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	36011	48.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	73717	100.0		Pass
199	5.0 - 9.0% of mass 198	4995	6.78		Pass
275	10.0 - 30.0% of mass 198	17341	23.5		Pass
365	1.0 - 100.0% of mass 198	2162	2.93		Pass
441	Present, but less than mass 443	9632	13.1	(80.4) [b]	Pass
442	40.0 - 100.0% of mass 198	63155	85.7		Pass
443	17.0 - 23.0% of mass 442	11981	16.3	(19.0) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2984-CC2974	4M66379.D	06/27/16	10:57	00:15	Continuing cal .5
ZZZZZZ	4M66380.D	06/27/16	11:35	00:53	(unrelated sample)
OP94971A-MB1	4M66381.D	06/27/16	12:07	01:25	Method Blank
OP94971A-BS12	4M66382.D	06/27/16	12:40	01:58	Blank Spike
ZZZZZZ	4M66400.D	06/27/16	13:12	02:30	(unrelated sample)
ZZZZZZ	4M66401.D	06/27/16	13:44	03:02	(unrelated sample)
JC22505-6	4M66402.D	06/27/16	14:17	03:35	(used for QC only; not part of job JC22206)
ZZZZZZ	4M66383.D	06/27/16	14:49	04:07	(unrelated sample)
ZZZZZZ	4M66384.D	06/27/16	15:21	04:39	(unrelated sample)
ZZZZZZ	4M66385.D	06/27/16	15:54	05:12	(unrelated sample)
ZZZZZZ	4M66386.D	06/27/16	16:26	05:44	(unrelated sample)
ZZZZZZ	4M66387.D	06/27/16	16:59	06:17	(unrelated sample)
ZZZZZZ	4M66388.D	06/27/16	17:31	06:49	(unrelated sample)
ZZZZZZ	4M66389.D	06/27/16	18:03	07:21	(unrelated sample)
OP94859A-MB1	4M66390.D	06/27/16	18:34	07:52	Method Blank
OP94859A-BS12	4M66391.D	06/27/16	19:05	08:23	Blank Spike
OP94859A-MS	4M66392.D	06/27/16	19:37	08:55	Matrix Spike
OP94859A-MSD	4M66393.D	06/27/16	20:08	09:26	Matrix Spike Duplicate
ZZZZZZ	4M66394.D	06/27/16	20:39	09:57	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E4M2984-DFTPP	**Injection Date:**	06/27/16
Lab File ID:	4M66378.D	**Injection Time:**	10:42
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M66397.D	06/27/16	22:13	11:31	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2986-DFTPP
Lab File ID: 4M66405.D
Instrument ID: GCMS4M
Injection Date: 06/28/16
Injection Time: 08:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	62495	44.2		Pass
68	Less than 2.0% of mass 69	339	0.24	(0.50) [a]	Pass
69	Mass 69 relative abundance	67789	47.9		Pass
70	Less than 2.0% of mass 69	206	0.15	(0.30) [a]	Pass
127	40.0 - 60.0% of mass 198	71827	50.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	141469	100.0		Pass
199	5.0 - 9.0% of mass 198	9296	6.57		Pass
275	10.0 - 30.0% of mass 198	31893	22.5		Pass
365	1.0 - 100.0% of mass 198	3552	2.51		Pass
441	Present, but less than mass 443	17690	12.5	(79.3) [b]	Pass
442	40.0 - 100.0% of mass 198	114888	81.2		Pass
443	17.0 - 23.0% of mass 442	22299	15.8	(19.4) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2986-CC2974	4M66406.D	06/28/16	08:51	00:15	Continuing cal .5
OP94835A-MS	4M66407.D	06/28/16	09:32	00:56	Matrix Spike
OP94835A-MSD	4M66408.D	06/28/16	10:04	01:28	Matrix Spike Duplicate
OP94814A-MB1	4M66409.D	06/28/16	10:37	02:01	Method Blank
OP95046A-MB1	4M66430.D	06/28/16	14:18	05:42	Method Blank
ZZZZZZ	4M66419.D	06/28/16	16:50	08:14	(unrelated sample)
ZZZZZZ	4M66420.D	06/28/16	17:20	08:44	(unrelated sample)
ZZZZZZ	4M66421.D	06/28/16	17:51	09:15	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2988-DFTPP
Lab File ID: 4M66454.D
Instrument ID: GCMS4M
Injection Date: 06/29/16
Injection Time: 08:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	51284	43.7		Pass
68	Less than 2.0% of mass 69	349	0.30	(0.60) [a]	Pass
69	Mass 69 relative abundance	58352	49.7		Pass
70	Less than 2.0% of mass 69	445	0.38	(0.76) [a]	Pass
127	40.0 - 60.0% of mass 198	60045	51.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	117467	100.0		Pass
199	5.0 - 9.0% of mass 198	7855	6.69		Pass
275	10.0 - 30.0% of mass 198	26040	22.2		Pass
365	1.0 - 100.0% of mass 198	2758	2.35		Pass
441	Present, but less than mass 443	12748	10.9	(76.5) [b]	Pass
442	40.0 - 100.0% of mass 198	86768	73.9		Pass
443	17.0 - 23.0% of mass 442	16660	14.2	(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
E4M2988-CC2974	4M66455.D	06/29/16	08:38	00:12	Continuing cal .5
JC22206-1	4M66456.D	06/29/16	09:13	00:47	MW-17
JC22206-2	4M66457.D	06/29/16	09:43	01:17	MW-18
JC22206-3	4M66458.D	06/29/16	10:14	01:48	MW-7

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2989-DFTPP
Lab File ID: 4M66459.D
Instrument ID: GCMS4M
Injection Date: 06/29/16
Injection Time: 11:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	48899	43.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	54720	49.2		Pass
70	Less than 2.0% of mass 69	344	0.31	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	59048	53.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	111328	100.0		Pass
199	5.0 - 9.0% of mass 198	7666	6.89		Pass
275	10.0 - 30.0% of mass 198	25099	22.5		Pass
365	1.0 - 100.0% of mass 198	2896	2.60		Pass
441	Present, but less than mass 443	14288	12.8	(84.5) [b]	Pass
442	40.0 - 100.0% of mass 198	89971	80.8		Pass
443	17.0 - 23.0% of mass 442	16901	15.2	(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
E4M2989-CC2974	4M66460.D	06/29/16	11:29	00:13	Continuing cal 1
OP95121A-MB1	4M66461.D	06/29/16	12:10	00:54	Method Blank
OP95121A-BS12	4M66462.D	06/29/16	12:42	01:26	Blank Spike
ZZZZZZ	4M66463.D	06/29/16	13:14	01:58	(unrelated sample)
JC22698-6	4M66464.D	06/29/16	13:45	02:29	(used for QC only; not part of job JC22206)
OP95121A-MSD	4M66466.D	06/29/16	14:47	03:31	Matrix Spike Duplicate
JC22206-4	4M66467.D	06/29/16	15:17	04:01	S-36
JC22206-5	4M66468.D	06/29/16	15:48	04:32	S-36D
JC22206-6	4M66469.D	06/29/16	16:19	05:03	S-37
JC22206-7	4M66470.D	06/29/16	16:50	05:34	S-35
JC22206-9	4M66472.D	06/29/16	17:51	06:35	RA-10S
JC22206-10	4M66473.D	06/29/16	18:22	07:06	RA-10D
JC22206-11	4M66474.D	06/29/16	18:54	07:38	EB-061416
ZZZZZZ	4M66476.D	06/29/16	19:55	08:39	(unrelated sample)
ZZZZZZ	4M66477.D	06/29/16	20:25	09:09	(unrelated sample)
ZZZZZZ	4M66478.D	06/29/16	20:56	09:40	(unrelated sample)
JC22349-1	4M66479.D	06/29/16	21:26	10:10	(used for QC only; not part of job JC22206)
ZZZZZZ	4M66480.D	06/29/16	21:57	10:41	(unrelated sample)
OP94971A-MS	4M66481.D	06/29/16	22:27	11:11	Matrix Spike

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2989-DFTPP
Lab File ID: 4M66459.D
Instrument ID: GCMS4M
Injection Date: 06/29/16
Injection Time: 11:16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP94971A-MSD	4M66482.D	06/29/16	22:57	11:41	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2990-DFTPP
Lab File ID: 4M66485.D
Instrument ID: GCMS4M
Injection Date: 06/30/16
Injection Time: 08:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	54860	44.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	59660	48.6		Pass
70	Less than 2.0% of mass 69	524	0.43	(0.88) [a]	Pass
127	40.0 - 60.0% of mass 198	62896	51.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	122755	100.0		Pass
199	5.0 - 9.0% of mass 198	8433	6.87		Pass
275	10.0 - 30.0% of mass 198	28293	23.0		Pass
365	1.0 - 100.0% of mass 198	2828	2.30		Pass
441	Present, but less than mass 443	13931	11.3	(75.4) [b]	Pass
442	40.0 - 100.0% of mass 198	90896	74.0		Pass
443	17.0 - 23.0% of mass 442	18470	15.0	(20.3) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2990-CC2974	4M66486.D	06/30/16	08:53	00:11	Continuing cal .5
JC22206-8	4M66487.D	06/30/16	09:23	00:41	S-32
ZZZZZZ	4M66488.D	06/30/16	09:53	01:11	(unrelated sample)
ZZZZZZ	4M66489.D	06/30/16	10:24	01:42	(unrelated sample)
ZZZZZZ	4M66490.D	06/30/16	10:54	02:12	(unrelated sample)
ZZZZZZ	4M66491.D	06/30/16	11:25	02:43	(unrelated sample)
OP95138A-MB1	4M66492.D	06/30/16	11:55	03:13	Method Blank
OP95138A-BS12	4M66493.D	06/30/16	12:26	03:44	Blank Spike
ZZZZZZ	4M66494.D	06/30/16	12:56	04:14	(unrelated sample)
ZZZZZZ	4M66495.D	06/30/16	13:27	04:45	(unrelated sample)
ZZZZZZ	4M66496.D	06/30/16	13:58	05:16	(unrelated sample)
OP95203A-MB1	4M66498.D	06/30/16	15:02	06:20	Method Blank
OP95203A-BS12	4M66499.D	06/30/16	15:34	06:52	Blank Spike
OP95203A-BSD12	4M66500.D	06/30/16	16:06	07:24	Blank Spike Duplicate
ZZZZZZ	4M66501.D	06/30/16	16:37	07:55	(unrelated sample)
ZZZZZZ	4M66502.D	06/30/16	17:09	08:27	(unrelated sample)
ZZZZZZ	4M66503.D	06/30/16	17:40	08:58	(unrelated sample)
ZZZZZZ	4M66505.D	06/30/16	18:40	09:58	(unrelated sample)
OP94994A-MB1	4M66506.D	06/30/16	19:11	10:29	Method Blank

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4M2991-DFTPP
Lab File ID: 4M66510.D
Instrument ID: GCMS4M
Injection Date: 06/30/16
Injection Time: 22:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	30986	38.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	36686	45.8		Pass
70	Less than 2.0% of mass 69	145	0.18	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	39605	49.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	80125	100.0		Pass
199	5.0 - 9.0% of mass 198	5588	6.97		Pass
275	10.0 - 30.0% of mass 198	18033	22.5		Pass
365	1.0 - 100.0% of mass 198	2273	2.84		Pass
441	Present, but less than mass 443	10927	13.6	(81.6) [b]	Pass
442	40.0 - 100.0% of mass 198	70171	87.6		Pass
443	17.0 - 23.0% of mass 442	13394	16.7	(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
E4M2991-CC2974	4M66511.D	06/30/16	22:30	00:11	Continuing cal 1.0
ZZZZZZ	4M66512.D	06/30/16	23:17	00:58	(unrelated sample)
ZZZZZZ	4M66513.D	06/30/16	23:47	01:28	(unrelated sample)
ZZZZZZ	4M66514.D	07/01/16	00:17	01:58	(unrelated sample)
ZZZZZZ	4M66515.D	07/01/16	00:48	02:29	(unrelated sample)
ZZZZZZ	4M66516.D	07/01/16	01:17	02:58	(unrelated sample)
ZZZZZZ	4M66518.D	07/01/16	02:17	03:58	(unrelated sample)
ZZZZZZ	4M66520.D	07/01/16	03:17	04:58	(unrelated sample)
ZZZZZZ	4M66521.D	07/01/16	03:47	05:28	(unrelated sample)
OP95225A-MB1	4M66522.D	07/01/16	04:17	05:58	Method Blank
OP95225A-BS12	4M66523.D	07/01/16	04:47	06:28	Blank Spike
OP95225A-BSD12	4M66524.D	07/01/16	05:17	06:58	Blank Spike Duplicate
JC22206-4	4M66525.D	07/01/16	05:46	07:27	S-36
JC22206-5	4M66526.D	07/01/16	06:16	07:57	S-36D
OP95205A-MB1	4M66527.D	07/01/16	06:46	08:27	Method Blank
OP95205A-BS12	4M66528.D	07/01/16	07:16	08:57	Blank Spike
OP95205A-MS	4M66529.D	07/01/16	07:45	09:26	Matrix Spike
OP95205A-MSD	4M66530.D	07/01/16	08:15	09:56	Matrix Spike Duplicate
ZZZZZZ	4M66531.D	07/01/16	08:45	10:26	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E4M2991-DFTPP	**Injection Date:**	06/30/16
Lab File ID:	4M66510.D	**Injection Time:**	22:19
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M66532.D	07/01/16	09:15	10:56	(unrelated sample)
ZZZZZZ	4M66533.D	07/01/16	09:45	11:26	(unrelated sample)
ZZZZZZ	4M66534.D	07/01/16	10:15	11:56	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6644-DFTPP
Lab File ID: F157848.D
Instrument ID: GCMSF
Injection Date: 06/09/16
Injection Time: 07:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	19838	34.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	30591	53.7		Pass
70	Less than 2.0% of mass 69	187	0.33	(0.61) [a]	Pass
127	40.0 - 60.0% of mass 198	34116	59.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	56985	100.0		Pass
199	5.0 - 9.0% of mass 198	4019	7.05		Pass
275	10.0 - 30.0% of mass 198	11955	21.0		Pass
365	1.0 - 100.0% of mass 198	1510	2.65		Pass
441	Present, but less than mass 443	6681	11.7	(77.7) [b]	Pass
442	40.0 - 100.0% of mass 198	44896	78.8		Pass
443	17.0 - 23.0% of mass 442	8599	15.1	(19.2) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6644-IC6644	F157849.D	06/09/16	08:00	00:24	Initial cal 100
EF6644-IC6644	F157850.D	06/09/16	09:03	01:27	Initial cal 80
EF6644-IC6644	F157851.D	06/09/16	10:30	02:54	Initial cal 25
EF6644-ICC6644	F157852.D	06/09/16	10:58	03:22	Initial cal 50
EF6644-IC6644	F157853.D	06/09/16	11:27	03:51	Initial cal 10
EF6644-IC6644	F157854.D	06/09/16	11:56	04:20	Initial cal 5
EF6644-IC6644	F157855.D	06/09/16	12:25	04:49	Initial cal 2
EF6644-IC6644	F157856.D	06/09/16	12:53	05:17	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6645-DFTPP
Lab File ID: F157857.D
Instrument ID: GCMSF
Injection Date: 06/09/16
Injection Time: 14:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	21547	34.7		Pass
68	Less than 2.0% of mass 69	360	0.58	(1.08) [a]	Pass
69	Mass 69 relative abundance	33466	53.9		Pass
70	Less than 2.0% of mass 69	152	0.24	(0.45) [a]	Pass
127	40.0 - 60.0% of mass 198	36600	58.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	62112	100.0		Pass
199	5.0 - 9.0% of mass 198	4099	6.60		Pass
275	10.0 - 30.0% of mass 198	12311	19.8		Pass
365	1.0 - 100.0% of mass 198	1488	2.40		Pass
441	Present, but less than mass 443	6727	10.8	(79.7) [b]	Pass
442	40.0 - 100.0% of mass 198	44568	71.8		Pass
443	17.0 - 23.0% of mass 442	8439	13.6	(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
EF6645-IC6645	F157858.D	06/09/16	15:03	00:18	Initial cal 100
EF6645-IC6645	F157859.D	06/09/16	15:32	00:47	Initial cal 80
EF6645-ICC6645	F157860.D	06/09/16	16:01	01:16	Initial cal 50
EF6645-IC6645	F157861.D	06/09/16	16:31	01:46	Initial cal 25
EF6645-IC6645	F157862.D	06/09/16	17:00	02:15	Initial cal 10
EF6645-IC6645	F157863.D	06/09/16	17:29	02:44	Initial cal 5
EF6645-IC6645	F157864.D	06/09/16	17:58	03:13	Initial cal 2
EF6645-IC6645	F157865.D	06/09/16	18:27	03:42	Initial cal 1
EF6645-ICV6644	F157867.D	06/09/16	19:25	04:40	Initial cal verification 50
EF6645-ICV6645	F157868A.D	06/09/16	19:55	05:10	Initial cal verification 50
EF6645-ICV6644	F157868.D	06/09/16	19:55	05:10	Initial cal verification 50
EF6645-ICV6645	F157869A.D	06/09/16	20:23	05:38	Initial cal verification 50
EF6645-ICV6644	F157869.D	06/09/16	20:23	05:38	Initial cal verification 50
EF6645-ICV6644	F157870.D	06/09/16	20:52	06:07	Initial cal verification 50
EF6645-ICV6645	F157871A.D	06/09/16	21:21	06:36	Initial cal verification 50
EF6645-ICV6644	F157871.D	06/09/16	21:21	06:36	Initial cal verification 50
EF6645-ICV6645	F157872.D	06/09/16	21:50	07:05	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6646-DFTPP
Lab File ID: F157879.D
Instrument ID: GCMSF
Injection Date: 06/10/16
Injection Time: 15:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28359	30.9		Pass
68	Less than 2.0% of mass 69	230	0.25	(0.54) [a]	Pass
69	Mass 69 relative abundance	42621	46.4		Pass
70	Less than 2.0% of mass 69	276	0.30	(0.65) [a]	Pass
127	40.0 - 60.0% of mass 198	54685	59.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	91832	100.0		Pass
199	5.0 - 9.0% of mass 198	6577	7.16		Pass
275	10.0 - 30.0% of mass 198	19590	21.3		Pass
365	1.0 - 100.0% of mass 198	2162	2.35		Pass
441	Present, but less than mass 443	9182	10.00	(74.2) [b]	Pass
442	40.0 - 100.0% of mass 198	61503	67.0		Pass
443	17.0 - 23.0% of mass 442	12379	13.5	(20.1) [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
EF6646-ICV6644	F157880.D	06/10/16	16:09	00:15	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6647-DFTPP
Lab File ID: F157881.D
Instrument ID: GCMSF
Injection Date: 06/10/16
Injection Time: 16:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28800	31.3		Pass
68	Less than 2.0% of mass 69	120	0.13	(0.29) [a]	Pass
69	Mass 69 relative abundance	41216	44.7		Pass
70	Less than 2.0% of mass 69	280	0.30	(0.68) [a]	Pass
127	40.0 - 60.0% of mass 198	53706	58.3		Pass
197	Less than 1.0% of mass 198	383	0.42		Pass
198	Base peak, 100% relative abundance	92128	100.0		Pass
199	5.0 - 9.0% of mass 198	6324	6.86		Pass
275	10.0 - 30.0% of mass 198	20050	21.8		Pass
365	1.0 - 100.0% of mass 198	2444	2.65		Pass
441	Present, but less than mass 443	9689	10.5	(74.8) [b]	Pass
442	40.0 - 100.0% of mass 198	64632	70.2		Pass
443	17.0 - 23.0% of mass 442	12959	14.1	(20.1) [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
EF6647-IC6647	F157882.D	06/10/16	17:01	00:20	Initial cal 100
EF6647-IC6647	F157883.D	06/10/16	17:30	00:49	Initial cal 80
EF6647-ICC6647	F157884.D	06/10/16	18:00	01:19	Initial cal 50
EF6647-IC6647	F157885.D	06/10/16	18:28	01:47	Initial cal 25
EF6647-IC6647	F157886.D	06/10/16	18:58	02:17	Initial cal 10
EF6647-IC6647	F157887.D	06/10/16	19:27	02:46	Initial cal 5
EF6647-IC6647	F157888.D	06/10/16	19:56	03:15	Initial cal 2
EF6647-IC6647	F157889.D	06/10/16	20:25	03:44	Initial cal 1
EF6647-ICV6647	F157890.D	06/10/16	20:54	04:13	Initial cal verification 50
EF6647-ICV6647	F157891.D	06/10/16	21:23	04:42	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6657-DFTPP
Lab File ID: F158096.D
Instrument ID: GCMSF
Injection Date: 06/20/16
Injection Time: 07:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	32415	30.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	47464	44.8		Pass
70	Less than 2.0% of mass 69	319	0.30	(0.67) [a]	Pass
127	40.0 - 60.0% of mass 198	62792	59.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	105856	100.0		Pass
199	5.0 - 9.0% of mass 198	7174	6.78		Pass
275	10.0 - 30.0% of mass 198	23984	22.7		Pass
365	1.0 - 100.0% of mass 198	2703	2.55		Pass
441	Present, but less than mass 443	10470	9.89	(70.8) [b]	Pass
442	40.0 - 100.0% of mass 198	75141	71.0		Pass
443	17.0 - 23.0% of mass 442	14798	14.0	(19.7) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6657-CC6644	F158097.D	06/20/16	07:47	00:15	Continuing cal 25
EF6657-CC6645	F158098.D	06/20/16	08:16	00:44	Continuing cal 25
OP94835-MB1	F158099.D	06/20/16	08:50	01:18	Method Blank
OP94835-BS1	F158100.D	06/20/16	09:19	01:47	Blank Spike
ZZZZZZ	F158101.D	06/20/16	09:48	02:16	(unrelated sample)
ZZZZZZ	F158102.D	06/20/16	10:17	02:45	(unrelated sample)
ZZZZZZ	F158103.D	06/20/16	10:46	03:14	(unrelated sample)
ZZZZZZ	F158121.D	06/20/16	11:15	03:43	(unrelated sample)
ZZZZZZ	F158104.D	06/20/16	11:44	04:12	(unrelated sample)
ZZZZZZ	F158105.D	06/20/16	12:12	04:40	(unrelated sample)
ZZZZZZ	F158106.D	06/20/16	12:41	05:09	(unrelated sample)
ZZZZZZ	F158107.D	06/20/16	13:10	05:38	(unrelated sample)
ZZZZZZ	F158108.D	06/20/16	13:39	06:07	(unrelated sample)
ZZZZZZ	F158109.D	06/20/16	14:08	06:36	(unrelated sample)
ZZZZZZ	F158110.D	06/20/16	14:38	07:06	(unrelated sample)
ZZZZZZ	F158111.D	06/20/16	15:07	07:35	(unrelated sample)
ZZZZZZ	F158112.D	06/20/16	15:36	08:04	(unrelated sample)
ZZZZZZ	F158113.D	06/20/16	16:05	08:33	(unrelated sample)
JC22025-21	F158114.D	06/20/16	17:03	09:31	(used for QC only; not part of job JC22206)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	EF6657-DFTPP	**Injection Date:**	06/20/16
Lab File ID:	F158096.D	**Injection Time:**	07:32
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F158115.D	06/20/16	17:32	10:00	(unrelated sample)
ZZZZZZ	F158116.D	06/20/16	18:01	10:29	(unrelated sample)
ZZZZZZ	F158118.D	06/20/16	19:00	11:28	(unrelated sample)
ZZZZZZ	F158119.D	06/20/16	19:29	11:57	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6659-DFTPP
Lab File ID: F158151.D
Instrument ID: GCMSF
Injection Date: 06/21/16
Injection Time: 11:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	38714	31.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	57221	46.4		Pass
70	Less than 2.0% of mass 69	300	0.24	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	71104	57.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	123210	100.0		Pass
199	5.0 - 9.0% of mass 198	7933	6.44		Pass
275	10.0 - 30.0% of mass 198	25881	21.0		Pass
365	1.0 - 100.0% of mass 198	2738	2.22		Pass
441	Present, but less than mass 443	12667	10.3	(75.7) [b]	Pass
442	40.0 - 100.0% of mass 198	84013	68.2		Pass
443	17.0 - 23.0% of mass 442	16739	13.6	(19.9) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6659-CC6644	F158152.D	06/21/16	11:50	00:19	Continuing cal 25
EF6659-CC6645	F158153.D	06/21/16	12:20	00:49	Continuing cal 25
OP94916-BS1	F158155.D	06/21/16	13:19	01:48	Blank Spike
ZZZZZZ	F158157.D	06/21/16	14:18	02:47	(unrelated sample)
ZZZZZZ	F158158.D	06/21/16	14:47	03:16	(unrelated sample)
ZZZZZZ	F158162.D	06/21/16	15:16	03:45	(unrelated sample)
ZZZZZZ	F158164.D	06/21/16	16:15	04:44	(unrelated sample)
ZZZZZZ	F158165.D	06/21/16	16:44	05:13	(unrelated sample)
ZZZZZZ	F158166.D	06/21/16	17:13	05:42	(unrelated sample)
ZZZZZZ	F158167.D	06/21/16	17:43	06:12	(unrelated sample)
ZZZZZZ	F158168.D	06/21/16	18:12	06:41	(unrelated sample)
ZZZZZZ	F158169.D	06/21/16	18:42	07:11	(unrelated sample)
OP94835-MS	F158171.D	06/21/16	19:41	08:10	Matrix Spike
OP94835-MSD	F158172.D	06/21/16	20:10	08:39	Matrix Spike Duplicate
ZZZZZZ	F158173.D	06/21/16	20:40	09:09	(unrelated sample)
ZZZZZZ	F158174.D	06/21/16	21:09	09:38	(unrelated sample)
ZZZZZZ	F158175.D	06/21/16	21:38	10:07	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6660-DFTPP
Lab File ID: F158189.D
Instrument ID: GCMSF
Injection Date: 06/22/16
Injection Time: 00:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	47555	30.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	64161	41.6		Pass
70	Less than 2.0% of mass 69	301	0.20	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	84592	54.9		Pass
197	Less than 1.0% of mass 198	454	0.29		Pass
198	Base peak, 100% relative abundance	154224	100.0		Pass
199	5.0 - 9.0% of mass 198	10482	6.80		Pass
275	10.0 - 30.0% of mass 198	25322	16.4		Pass
365	1.0 - 100.0% of mass 198	2587	1.68		Pass
441	Present, but less than mass 443	9885	6.41	(77.8) [b]	Pass
442	40.0 - 100.0% of mass 198	62266	40.4		Pass
443	17.0 - 23.0% of mass 442	12699	8.23	(20.4) [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
EF6660-IC6660	F158190.D	06/22/16	00:38	00:27	Initial cal 100
EF6660-IC6660	F158191.D	06/22/16	01:08	00:57	Initial cal 80
EF6660-ICC6660	F158192.D	06/22/16	01:37	01:26	Initial cal 50
EF6660-IC6660	F158193.D	06/22/16	02:06	01:55	Initial cal 25
EF6660-IC6660	F158194.D	06/22/16	02:36	02:25	Initial cal 10
EF6660-IC6660	F158195.D	06/22/16	03:05	02:54	Initial cal 5
EF6660-IC6660	F158196.D	06/22/16	03:34	03:23	Initial cal 2
EF6660-IC6660	F158197.D	06/22/16	04:04	03:53	Initial cal 1
EF6660-ICV6660	F158198.D	06/22/16	04:32	04:21	Initial cal verification 50
EF6660-ICV6660	F158199.D	06/22/16	05:01	04:50	Initial cal verification 50
EF6660-ICV6660	F158200.D	06/22/16	05:31	05:20	Initial cal verification 50
EF6660-ICV6660	F158201.D	06/22/16	05:59	05:48	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6662-DFTPP
Lab File ID: F158254.D
Instrument ID: GCMSF
Injection Date: 06/23/16
Injection Time: 10:31

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39444	32.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	51005	42.4		Pass
70	Less than 2.0% of mass 69	97	0.08	(0.19) [a]	Pass
127	40.0 - 60.0% of mass 198	61389	51.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	120173	100.0		Pass
199	5.0 - 9.0% of mass 198	8290	6.90		Pass
275	10.0 - 30.0% of mass 198	21726	18.1		Pass
365	1.0 - 100.0% of mass 198	1889	1.57		Pass
441	Present, but less than mass 443	11523	9.59	(74.5) [b]	Pass
442	40.0 - 100.0% of mass 198	77424	64.4		Pass
443	17.0 - 23.0% of mass 442	15462	12.9	(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
EF6662-CC6644	F158255.D	06/23/16	10:43	00:12	Continuing cal 25
EF6662-CC6645	F158256.D	06/23/16	11:12	00:41	Continuing cal 25
EF6662-CC6647	F158257A.D	06/23/16	12:32	02:01	Continuing cal 25
EF6662-CC6660	F158258.D	06/23/16	13:01	02:30	Continuing cal 25
EF6662-CC6644	F158259.D	06/23/16	13:30	02:59	Continuing cal 5
OP94885-MB1	F158260.D	06/23/16	13:59	03:28	Method Blank
ZZZZZZ	F158261.D	06/23/16	14:28	03:57	(unrelated sample)
ZZZZZZ	F158262.D	06/23/16	14:57	04:26	(unrelated sample)
ZZZZZZ	F158263.D	06/23/16	15:27	04:56	(unrelated sample)
OP94784-MB1	F158267.D	06/23/16	17:24	06:53	Method Blank
ZZZZZZ	F158268.D	06/23/16	17:53	07:22	(unrelated sample)
ZZZZZZ	F158269.D	06/23/16	18:23	07:52	(unrelated sample)
ZZZZZZ	F158270.D	06/23/16	18:52	08:21	(unrelated sample)
ZZZZZZ	F158271.D	06/23/16	19:21	08:50	(unrelated sample)
ZZZZZZ	F158272.D	06/23/16	19:51	09:20	(unrelated sample)
ZZZZZZ	F158273.D	06/23/16	20:20	09:49	(unrelated sample)
ZZZZZZ	F158274.D	06/23/16	20:50	10:19	(unrelated sample)
ZZZZZZ	F158275.D	06/23/16	21:19	10:48	(unrelated sample)
JC22206-1	F158276.D	06/23/16	21:49	11:18	MW-17

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6662-DFTPP
Lab File ID: F158254.D
Instrument ID: GCMSF
Injection Date: 06/23/16
Injection Time: 10:31

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC22206-2	F158277.D	06/23/16	22:18	11:47	MW-18
OP94799-MB1	F158279.D	06/23/16	23:16	12:45	Method Blank
ZZZZZZ	F158280.D	06/23/16	23:45	13:14	(unrelated sample)
OP94885-MS	F158281.D	06/24/16	00:14	13:43	Matrix Spike
OP94885-MSD	F158282.D	06/24/16	00:43	14:12	Matrix Spike Duplicate
ZZZZZZ	F158283.D	06/24/16	01:12	14:41	(unrelated sample)
ZZZZZZ	F158284.D	06/24/16	01:41	15:10	(unrelated sample)
ZZZZZZ	F158285.D	06/24/16	02:10	15:39	(unrelated sample)
ZZZZZZ	F158286.D	06/24/16	02:39	16:08	(unrelated sample)
ZZZZZZ	F158287.D	06/24/16	03:08	16:37	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6663-DFTPP
Lab File ID: F158289.D
Instrument ID: GCMSF
Injection Date: 06/24/16
Injection Time: 07:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	74291	33.6		Pass
68	Less than 2.0% of mass 69	372	0.17	(0.37) [a]	Pass
69	Mass 69 relative abundance	99213	44.8		Pass
70	Less than 2.0% of mass 69	523	0.24	(0.53) [a]	Pass
127	40.0 - 60.0% of mass 198	115518	52.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	221402	100.0		Pass
199	5.0 - 9.0% of mass 198	15211	6.87		Pass
275	10.0 - 30.0% of mass 198	41874	18.9		Pass
365	1.0 - 100.0% of mass 198	3933	1.78		Pass
441	Present, but less than mass 443	21475	9.70	(76.8) [b]	Pass
442	40.0 - 100.0% of mass 198	145405	65.7		Pass
443	17.0 - 23.0% of mass 442	27958	12.6	(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
EF6663-CC6644	F158290.D	06/24/16	07:56	00:16	Continuing cal 50
EF6663-CC6645	F158291.D	06/24/16	08:27	00:47	Continuing cal 25
JC22206-3	F158293.D	06/24/16	09:26	01:46	MW-7
ZZZZZZ	F158294.D	06/24/16	09:55	02:15	(unrelated sample)
ZZZZZZ	F158295.D	06/24/16	10:24	02:44	(unrelated sample)
ZZZZZZ	F158297.D	06/24/16	11:22	03:42	(unrelated sample)
ZZZZZZ	F158298.D	06/24/16	11:51	04:11	(unrelated sample)
ZZZZZZ	F158299.D	06/24/16	12:20	04:40	(unrelated sample)
ZZZZZZ	F158300.D	06/24/16	12:49	05:09	(unrelated sample)
ZZZZZZ	F158301.D	06/24/16	13:19	05:39	(unrelated sample)
ZZZZZZ	F158302.D	06/24/16	13:48	06:08	(unrelated sample)
ZZZZZZ	F158303.D	06/24/16	14:17	06:37	(unrelated sample)
ZZZZZZ	F158304.D	06/24/16	14:46	07:06	(unrelated sample)
ZZZZZZ	F158305.D	06/24/16	15:15	07:35	(unrelated sample)
JC22412-2	F158306.D	06/24/16	15:44	08:04	(used for QC only; not part of job JC22206)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6666-DFTPP
Lab File ID: F158367.D
Instrument ID: GCMSF
Injection Date: 06/27/16
Injection Time: 07:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	60147	34.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	92520	52.5		Pass
70	Less than 2.0% of mass 69	266	0.15	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	100861	57.2		Pass
197	Less than 1.0% of mass 198	359	0.20		Pass
198	Base peak, 100% relative abundance	176362	100.0		Pass
199	5.0 - 9.0% of mass 198	12263	6.95		Pass
275	10.0 - 30.0% of mass 198	34880	19.8		Pass
365	1.0 - 100.0% of mass 198	3771	2.14		Pass
441	Present, but less than mass 443	18677	10.6	(74.1) [b]	Pass
442	40.0 - 100.0% of mass 198	123898	70.3		Pass
443	17.0 - 23.0% of mass 442	25190	14.3	(20.3) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6666-CC6644	F158368.D	06/27/16	07:35	00:12	Continuing cal 25
EF6666-CC6645	F158369A.D	06/27/16	08:44	01:21	Continuing cal 25
OP95077-MB1	F158370.D	06/27/16	09:14	01:51	Method Blank
OP95077-BS1	F158371.D	06/27/16	09:43	02:20	Blank Spike
OP94859-MB1	F158372.D	06/27/16	10:12	02:49	Method Blank
OP94859-BS1	F158373.D	06/27/16	10:42	03:19	Blank Spike
ZZZZZZ	F158374.D	06/27/16	11:11	03:48	(unrelated sample)
ZZZZZZ	F158375.D	06/27/16	11:40	04:17	(unrelated sample)
JC22796-1	F158380.D	06/27/16	14:05	06:42	(used for QC only; not part of job JC22206)
ZZZZZZ	F158381.D	06/27/16	14:34	07:11	(unrelated sample)
OP95077-MS	F158382.D	06/27/16	15:03	07:40	Matrix Spike
OP95077-MSD	F158383.D	06/27/16	15:33	08:10	Matrix Spike Duplicate
JC22206-4	F158384.D	06/27/16	16:02	08:39	S-36
JC22206-5	F158385.D	06/27/16	16:31	09:08	S-36D
JC22206-6	F158386.D	06/27/16	17:01	09:38	S-37
JC22206-7	F158387.D	06/27/16	17:30	10:07	S-35
JC22206-8	F158388.D	06/27/16	18:00	10:37	S-32
JC22206-9	F158389.D	06/27/16	18:28	11:05	RA-10S

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6667-DFTPP
Lab File ID: F158394.D
Instrument ID: GCMSF
Injection Date: 06/27/16
Injection Time: 22:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	70096	32.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	110987	51.7		Pass
70	Less than 2.0% of mass 69	605	0.28	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	123786	57.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	214714	100.0		Pass
199	5.0 - 9.0% of mass 198	13930	6.49		Pass
275	10.0 - 30.0% of mass 198	43128	20.1		Pass
365	1.0 - 100.0% of mass 198	4374	2.04		Pass
441	Present, but less than mass 443	21828	10.2	(80.0) [b]	Pass
442	40.0 - 100.0% of mass 198	139613	65.0		Pass
443	17.0 - 23.0% of mass 442	27290	12.7	(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
EF6667-CC6644	F158395.D	06/27/16	23:12	00:13	Continuing cal 50
EF6667-CC6645	F158396.D	06/27/16	23:41	00:42	Continuing cal 50
OP95016-MB1	F158398.D	06/28/16	00:39	01:40	Method Blank
OP95016-BS1	F158399.D	06/28/16	01:08	02:09	Blank Spike
OP95016-MS	F158400.D	06/28/16	01:37	02:38	Matrix Spike
OP95016-MSD	F158401.D	06/28/16	02:06	03:07	Matrix Spike Duplicate
ZZZZZZ	F158402.D	06/28/16	02:34	03:35	(unrelated sample)
ZZZZZZ	F158403.D	06/28/16	03:03	04:04	(unrelated sample)
ZZZZZZ	F158404.D	06/28/16	03:32	04:33	(unrelated sample)
JC22477-1	F158405.D	06/28/16	04:02	05:03	(used for QC only; not part of job JC22206)
ZZZZZZ	F158406.D	06/28/16	04:31	05:32	(unrelated sample)
ZZZZZZ	F158407.D	06/28/16	04:59	06:00	(unrelated sample)
ZZZZZZ	F158408.D	06/28/16	05:28	06:29	(unrelated sample)
ZZZZZZ	F158409.D	06/28/16	05:57	06:58	(unrelated sample)
ZZZZZZ	F158410.D	06/28/16	06:26	07:27	(unrelated sample)
ZZZZZZ	F158411.D	06/28/16	06:55	07:56	(unrelated sample)
ZZZZZZ	F158412.D	06/28/16	07:24	08:25	(unrelated sample)
ZZZZZZ	F158413.D	06/28/16	07:52	08:53	(unrelated sample)
ZZZZZZ	F158414.D	06/28/16	08:22	09:23	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	EF6667-DFTPP	**Injection Date:**	06/27/16
Lab File ID:	F158394.D	**Injection Time:**	22:59
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F158415.D	06/28/16	08:50	09:51	(unrelated sample)
ZZZZZZ	F158416.D	06/28/16	09:20	10:21	(unrelated sample)
OP94859-MS	F158417.D	06/28/16	09:49	10:50	Matrix Spike
OP94859-MSD	F158418.D	06/28/16	10:18	11:19	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6668-DFTPP
Lab File ID: F158422.D
Instrument ID: GCMSF
Injection Date: 06/28/16
Injection Time: 12:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50109	31.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	78259	49.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	89274	55.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	159730	100.0		Pass
199	5.0 - 9.0% of mass 198	10622	6.65		Pass
275	10.0 - 30.0% of mass 198	31632	19.8		Pass
365	1.0 - 100.0% of mass 198	3708	2.32		Pass
441	Present, but less than mass 443	15948	9.98	(77.0) [b]	Pass
442	40.0 - 100.0% of mass 198	103344	64.7		Pass
443	17.0 - 23.0% of mass 442	20720	13.0	(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
EF6668-CC6644	F158423.D	06/28/16	12:38	00:12	Continuing cal 25
EF6668-CC6645	F158424.D	06/28/16	13:07	00:41	Continuing cal 25
EF6668-CC6647	F158425.D	06/28/16	13:36	01:10	Continuing cal 25
EF6668-CC6660	F158426.D	06/28/16	14:05	01:39	Continuing cal 25
OP95080-MB1	F158427.D	06/28/16	14:34	02:08	Method Blank
OP95080-BS1	F158428.D	06/28/16	15:04	02:38	Blank Spike
ZZZZZZ	F158429.D	06/28/16	15:33	03:07	(unrelated sample)
ZZZZZZ	F158444.D	06/28/16	17:39	05:13	(unrelated sample)
OP95080-MS	F158433.D	06/28/16	18:09	05:43	Matrix Spike
OP95080-MSD	F158434.D	06/28/16	18:38	06:12	Matrix Spike Duplicate
JC22733-1	F158435.D	06/28/16	19:08	06:42	(used for QC only; not part of job JC22206)
ZZZZZZ	F158436.D	06/28/16	19:37	07:11	(unrelated sample)
ZZZZZZ	F158437.D	06/28/16	20:07	07:41	(unrelated sample)
ZZZZZZ	F158438.D	06/28/16	20:36	08:10	(unrelated sample)
ZZZZZZ	F158439.D	06/28/16	21:05	08:39	(unrelated sample)
JC22206-10	F158440.D	06/28/16	21:34	09:08	RA-10D
JC22206-11	F158441.D	06/28/16	22:04	09:38	EB-061416
JC22206-7	F158442.D	06/28/16	22:33	10:07	S-35
JC22206-9	F158443.D	06/28/16	23:02	10:36	RA-10S

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6668-DFTPP
Lab File ID: F158422.D
Instrument ID: GCMSF
Injection Date: 06/28/16
Injection Time: 12:26

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP95141-MB1	F158445.D	06/28/16	23:31	11:05	Method Blank
OP95141-BS1	F158446.D	06/29/16	00:00	11:34	Blank Spike
OP95141-BS13	F158447.D	06/29/16	00:29	12:03	Blank Spike
OP95141-MS	F158448.D	06/29/16	00:58	12:32	Matrix Spike
OP95141-MSD	F158449.D	06/29/16	01:27	13:01	Matrix Spike Duplicate
ZZZZZZ	F158450.D	06/29/16	01:56	13:30	(unrelated sample)
JC22700-3	F158451.D	06/29/16	02:25	13:59	(used for QC only; not part of job JC22206)
ZZZZZZ	F158452.D	06/29/16	02:54	14:28	(unrelated sample)
ZZZZZZ	F158453.D	06/29/16	03:23	14:57	(unrelated sample)
ZZZZZZ	F158454.D	06/29/16	03:52	15:26	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6670-DFTPP
Lab File ID: F158462.D
Instrument ID: GCMSF
Injection Date: 06/29/16
Injection Time: 10:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	62174	34.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	94183	51.9		Pass
70	Less than 2.0% of mass 69	380	0.21	(0.40) [a]	Pass
127	40.0 - 60.0% of mass 198	104877	57.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	181344	100.0		Pass
199	5.0 - 9.0% of mass 198	12433	6.86		Pass
275	10.0 - 30.0% of mass 198	35922	19.8		Pass
365	1.0 - 100.0% of mass 198	3528	1.95		Pass
441	Present, but less than mass 443	16579	9.14	(77.4) [b]	Pass
442	40.0 - 100.0% of mass 198	110144	60.7		Pass
443	17.0 - 23.0% of mass 442	21418	11.8	(19.4) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6670-CC6644	F158463B.D	06/29/16	10:58	00:53	Continuing cal 50
EF6670-CC6645	F158464.D	06/29/16	11:27	01:22	Continuing cal 50
EF6670-CC6647	F158465.D	06/29/16	11:56	01:51	Continuing cal 50
EF6670-CC6647	F158466.D	06/29/16	12:25	02:20	Continuing cal 50
OP95119-MB1	F158468.D	06/29/16	13:30	03:25	Method Blank
OP95119-BS1	F158469.D	06/29/16	13:59	03:54	Blank Spike
OP95119-BS13	F158470.D	06/29/16	14:28	04:23	Blank Spike
OP95119-BS14	F158471.D	06/29/16	14:58	04:53	Blank Spike
JC22733-1	F158475.D	06/29/16	15:27	05:22	(used for QC only; not part of job JC22206)
JC22733-1	F158476.D	06/29/16	15:56	05:51	(used for QC only; not part of job JC22206)
JC22738-1	F158472.D	06/29/16	16:25	06:20	(used for QC only; not part of job JC22206)
OP95119-MS	F158473.D	06/29/16	16:54	06:49	Matrix Spike
OP95119-MSD	F158474.D	06/29/16	17:23	07:18	Matrix Spike Duplicate
JC22206-10	F158478.D	06/29/16	18:31	08:26	RA-10D
ZZZZZZ	F158479.D	06/29/16	19:00	08:55	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5571-DFTPP
Lab File ID: Z111535.D
Instrument ID: GCMSZ
Injection Date: 06/14/16
Injection Time: 16:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29438	34.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	39510	45.6		Pass
70	Less than 2.0% of mass 69	349	0.40	(0.88) [a]	Pass
127	40.0 - 60.0% of mass 198	44444	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	86608	100.0		Pass
199	5.0 - 9.0% of mass 198	5940	6.86		Pass
275	10.0 - 30.0% of mass 198	22498	26.0		Pass
365	1.0 - 100.0% of mass 198	2415	2.79		Pass
441	Present, but less than mass 443	7599	8.77	(79.4) [b]	Pass
442	40.0 - 100.0% of mass 198	51104	59.0		Pass
443	17.0 - 23.0% of mass 442	9567	11.0	(18.7) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5571-IC5571	Z111536.D	06/14/16	17:00	00:15	Initial cal 100
EZ5571-IC5571	Z111537.D	06/14/16	17:31	00:46	Initial cal 80
EZ5571-ICC5571	Z111538.D	06/14/16	18:00	01:15	Initial cal 50
EZ5571-IC5571	Z111539.D	06/14/16	18:30	01:45	Initial cal 25
EZ5571-IC5571	Z111540.D	06/14/16	19:00	02:15	Initial cal 10
EZ5571-IC5571	Z111541.D	06/14/16	19:30	02:45	Initial cal 5
EZ5571-IC5571	Z111542.D	06/14/16	20:00	03:15	Initial cal 2
EZ5571-IC5571	Z111543.D	06/14/16	20:30	03:45	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5573-DFTPP
Lab File ID: Z111544.D
Instrument ID: GCMSZ
Injection Date: 06/15/16
Injection Time: 08:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	38028	36.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	51339	48.8		Pass
70	Less than 2.0% of mass 69	263	0.25	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	55433	52.7		Pass
197	Less than 1.0% of mass 198	715	0.68		Pass
198	Base peak, 100% relative abundance	105096	100.0		Pass
199	5.0 - 9.0% of mass 198	7180	6.83		Pass
275	10.0 - 30.0% of mass 198	26557	25.3		Pass
365	1.0 - 100.0% of mass 198	2862	2.72		Pass
441	Present, but less than mass 443	9512	9.05	(79.5) [b]	Pass
442	40.0 - 100.0% of mass 198	62213	59.2		Pass
443	17.0 - 23.0% of mass 442	11967	11.4	(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
EZ5573-IC5573	Z111545.D	06/15/16	08:19	00:15	Initial cal 100
EZ5573-IC5573	Z111546.D	06/15/16	08:48	00:44	Initial cal 80
EZ5573-ICC5573	Z111547.D	06/15/16	09:17	01:13	Initial cal 50
EZ5573-IC5573	Z111548.D	06/15/16	09:47	01:43	Initial cal 25
EZ5573-IC5573	Z111549.D	06/15/16	10:16	02:12	Initial cal 10
EZ5573-IC5573	Z111550.D	06/15/16	10:46	02:42	Initial cal 5
EZ5573-IC5573	Z111551.D	06/15/16	11:16	03:12	Initial cal 2
EZ5573-IC5573	Z111552.D	06/15/16	11:46	03:42	Initial cal 1
EZ5573-ICV5571	Z111554.D	06/15/16	12:45	04:41	Initial cal verification 50
EZ5573-ICV5571	Z111555.D	06/15/16	13:15	05:11	Initial cal verification 50
EZ5573-ICV5571	Z111558.D	06/15/16	14:44	06:40	Initial cal verification 50
EZ5573-ICV5573	Z111559.D	06/15/16	15:14	07:10	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5574-DFTPP
Lab File ID: Z111560.D
Instrument ID: GCMSZ
Injection Date: 06/15/16
Injection Time: 16:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34192	35.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46850	48.5		Pass
70	Less than 2.0% of mass 69	93	0.10	(0.20) [a]	Pass
127	40.0 - 60.0% of mass 198	50554	52.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	96581	100.0		Pass
199	5.0 - 9.0% of mass 198	6659	6.89		Pass
275	10.0 - 30.0% of mass 198	23571	24.4		Pass
365	1.0 - 100.0% of mass 198	2533	2.62		Pass
441	Present, but less than mass 443	8159	8.45	(79.6) [b]	Pass
442	40.0 - 100.0% of mass 198	55053	57.0		Pass
443	17.0 - 23.0% of mass 442	10251	10.6	(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
EZ5574-ICV5571	Z111561.D	06/15/16	17:03	00:22	Initial cal verification 50
EZ5574-ICV5573	Z111562A.D	06/15/16	17:33	00:52	Initial cal verification 50
EZ5574-ICV5571	Z111562.D	06/15/16	17:33	00:52	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5575-DFTPP
Lab File ID: Z111564.D
Instrument ID: GCMSZ
Injection Date: 06/16/16
Injection Time: 08:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39674	39.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	54481	53.6		Pass
70	Less than 2.0% of mass 69	390	0.38	(0.72) [a]	Pass
127	40.0 - 60.0% of mass 198	55762	54.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	101696	100.0		Pass
199	5.0 - 9.0% of mass 198	6677	6.57		Pass
275	10.0 - 30.0% of mass 198	24415	24.0		Pass
365	1.0 - 100.0% of mass 198	2399	2.36		Pass
441	Present, but less than mass 443	8454	8.31	(86.2) [b]	Pass
442	40.0 - 100.0% of mass 198	52888	52.0		Pass
443	17.0 - 23.0% of mass 442	9807	9.64	(18.5) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5575-ICV5571	Z111565.D	06/16/16	08:58	00:17	Initial cal verification 50
EZ5575-ICV5573	Z111565A.D	06/16/16	08:58	00:17	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EZ5596-DFTPP
Lab File ID: Z111965.D
Instrument ID: GCMSZ
Injection Date: 06/29/16
Injection Time: 11:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	44707	37.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	61777	51.9		Pass
70	Less than 2.0% of mass 69	191	0.16	(0.31) [a]	Pass
127	40.0 - 60.0% of mass 198	64068	53.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	118917	100.0		Pass
199	5.0 - 9.0% of mass 198	8384	7.05		Pass
275	10.0 - 30.0% of mass 198	28439	23.9		Pass
365	1.0 - 100.0% of mass 198	2516	2.12		Pass
441	Present, but less than mass 443	10766	9.05	(77.2) [b]	Pass
442	40.0 - 100.0% of mass 198	69370	58.3		Pass
443	17.0 - 23.0% of mass 442	13939	11.7	(20.1) [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
EZ5596-CC5571	Z111966.D	06/29/16	11:55	00:15	Continuing cal 25
EZ5596-CC5573	Z111967.D	06/29/16	12:25	00:45	Continuing cal 25
OP95160-MB1	Z111969.D	06/29/16	13:24	01:44	Method Blank
OP95160-BS1	Z111970.D	06/29/16	13:54	02:14	Blank Spike
OP95083-MB1	Z111982.D	06/29/16	14:25	02:45	Method Blank
ZZZZZZ	Z111983.D	06/29/16	14:55	03:15	(unrelated sample)
JC22206-8	Z111971.D	06/29/16	15:24	03:44	S-32
ZZZZZZ	Z111972.D	06/29/16	15:54	04:14	(unrelated sample)
ZZZZZZ	Z111973.D	06/29/16	16:23	04:43	(unrelated sample)
ZZZZZZ	Z111974.D	06/29/16	16:53	05:13	(unrelated sample)
ZZZZZZ	Z111975.D	06/29/16	17:23	05:43	(unrelated sample)
ZZZZZZ	Z111976.D	06/29/16	17:53	06:13	(unrelated sample)
ZZZZZZ	Z111977.D	06/29/16	18:23	06:43	(unrelated sample)
JC22702-8	Z111978.D	06/29/16	18:53	07:13	(used for QC only; not part of job JC22206)
ZZZZZZ	Z111979.D	06/29/16	19:22	07:42	(unrelated sample)
OP95160-MS	Z111980.D	06/29/16	19:52	08:12	Matrix Spike
OP95160-MSD	Z111981.D	06/29/16	20:21	08:41	Matrix Spike Duplicate
ZZZZZZ	Z111984.D	06/29/16	20:51	09:11	(unrelated sample)
ZZZZZZ	Z111985.D	06/29/16	21:21	09:41	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	EZ5596-DFTPP	**Injection Date:**	06/29/16
Lab File ID:	Z111965.D	**Injection Time:**	11:40
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	Z111986.D	06/29/16	21:51	10:11	(unrelated sample)
ZZZZZZ	Z111987.D	06/29/16	22:21	10:41	(unrelated sample)
ZZZZZZ	Z111989.D	06/29/16	23:21	11:41	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E2M3754-CC3720	**Injection Date:**	06/28/16
Lab File ID:	2M85108.D	**Injection Time:**	10:09
Instrument ID:	GCMS2M	**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	130661	4.84	561803	5.96	357030	8.07	599514	10.28	410015	14.50	270750	16.64
Upper Limit [a]	261322	5.34	1123606	6.46	714060	8.57	1199028	10.78	820030	15.00	541500	17.14
Lower Limit [b]	65331	4.34	280902	5.46	178515	7.57	299757	9.78	205008	14.00	135375	16.14

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
OP94952-MB2	167904	4.84	667794	5.96	378251	8.07	648095	10.28	511200	14.50	362106	16.64
OP94952-LB13	152682	4.84	620859	5.96	364893	8.07	596771	10.28	467130	14.49	336525	16.64
OP94952-LB17	143285	4.84	585365	5.96	343107	8.07	574552	10.28	470719	14.49	355089	16.63
OP94952-BS2	162868	4.84	693997	5.96	348300	8.07	552609	10.28	468294	14.50	310334	16.63
ZZZZZZ	134577	4.84	512132	5.96	277536	8.07	448839	10.28	404601	14.49	328973	16.63
ZZZZZZ	121876	4.84	464925	5.96	246571	8.07	392379	10.28	365199	14.49	298321	16.63
ZZZZZZ	133050	4.84	517007	5.96	294345	8.07	498173	10.28	445888	14.50	372561	16.64
OP94859A-MB1	167504	4.84	670188	5.95	391089	8.07	656014	10.28	576775	14.50	451194	16.63
ZZZZZZ	151138	4.84	600768	5.96	359243	8.07	597435	10.28	476933	14.49	384014	16.63
ZZZZZZ	141095	4.84	564285	5.96	328052	8.07	555923	10.28	444089	14.49	334534	16.63
OP95018A-MB1	154107	4.84	616420	5.95	356928	8.07	602153	10.28	510314	14.49	433431	16.63
ZZZZZZ	147729	4.84	608213	5.95	356426	8.07	609499	10.28	494521	14.49	416203	16.63

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2954-CC2942	**Injection Date:**	06/28/16
Lab File ID:	3M62582.D	**Injection Time:**	11:50
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	468087	10.72	673240	13.72	1024985	17.92	792752	22.53
Upper Limit [a]	936174	11.22	1346480	14.22	2049970	18.42	1585504	23.03
Lower Limit [b]	234044	10.22	336620	13.22	512493	17.42	396376	22.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	499162	10.72	700273	13.72	1090472	17.92	839894	22.53
ZZZZZZ	521330	10.72	723828	13.72	1041736	17.92	822336	22.53
OP94859A-MB1	514927	10.72	728071	13.72	1075664	17.92	850647	22.53
ZZZZZZ	451999	10.72	625878	13.72	949552	17.94	603468	22.53
ZZZZZZ	549559	10.72	718227	13.72	989967	17.94	701293	22.55
ZZZZZZ	488629	10.72	592834	13.72	892840	17.94	710842	22.53
ZZZZZZ	489942	10.72	577517	13.72	794859	17.94	586751	22.55
ZZZZZZ	488373	10.72	585252	13.72	948252	17.94	723135	22.53
ZZZZZZ	541479	10.72	651030	13.72	1005265	17.94	794410	22.53
OP94806A-MB1	474546	10.72	591909	13.72	862094	17.94	712985	22.53
OP94806A-BS12	590239	10.72	692853	13.72	1031905	17.94	834206	22.53
OP94806A-MS	637718	10.72	765120	13.72	1118167	17.94	911287	22.53
OP94806A-MSD	605001	10.72	717445	13.72	1064831	17.94	868927	22.53
ZZZZZZ	547147	10.72	687220	13.72	970995	17.94	783617	22.53
JC22142-2	517935	10.72	664244	13.72	942406	17.92	757073	22.53
ZZZZZZ	558476	10.72	695532	13.72	1003637	17.94	791980	22.53
ZZZZZZ	534916	10.72	673414	13.72	946798	17.92	716243	22.53
ZZZZZZ	515032	10.72	663162	13.72	933102	17.92	761347	22.53
ZZZZZZ	540548	10.74	500079	13.78	727715	17.99	694973	22.53
ZZZZZZ	605475	10.72	782477	13.72	1148196	17.92	898917	22.53

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2978-CC2974	**Injection Date:**	06/22/16
Lab File ID:	4M66259.D	**Injection Time:**	14:51
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	59912	9.76	87212	12.74	163492	16.92	130725	21.52
Upper Limit [a]	119824	10.26	174424	13.24	326984	17.42	261450	22.02
Lower Limit [b]	29956	9.26	43606	12.24	81746	16.42	65363	21.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94977A-MB1	47109	9.76	66482	12.74	120947	16.92	94950	21.52
OP94977A-BS12	49549	9.76	68846	12.74	126409	16.92	98943	21.52
OP94977A-BSD12	43672	9.76	61760	12.74	112609	16.92	89124	21.52
ZZZZZZ	46904	9.76	66320	12.74	127240	16.92	98326	21.52
ZZZZZZ	49245	9.76	69229	12.74	128914	16.92	102796	21.52
ZZZZZZ	49129	9.76	71369	12.74	134447	16.92	101719	21.52
ZZZZZZ	51396	9.76	72808	12.74	134706	16.92	102486	21.52
ZZZZZZ	48801	9.76	69860	12.74	131107	16.92	99660	21.52
ZZZZZZ	49502	9.76	70677	12.74	135977	16.92	104325	21.52
ZZZZZZ	46793	9.76	68094	12.74	134317	16.92	105746	21.52
OP94835A-MB1	47766	9.76	68470	12.74	126931	16.92	95899	21.52
OP94835A-BS12	45803	9.76	63724	12.74	127174	16.92	97475	21.52
ZZZZZZ	47371	9.76	66368	12.74	125074	16.92	96535	21.52
ZZZZZZ	42774	9.76	60154	12.74	118638	16.92	93183	21.52
ZZZZZZ	41232	9.76	58553	12.74	116582	16.92	91343	21.52
ZZZZZZ	48025	9.76	70497	12.74	145159	16.92	107091	21.52
ZZZZZZ	59093	9.76	80785	12.74	161044	16.92	127187	21.52
ZZZZZZ	50176	9.76	69180	12.74	139582	16.92	112645	21.52
E4M2978-ECC2974	46929	9.76	68163	12.74	135749	16.92	106879	21.52

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2984-CC2974	**Injection Date:**	06/27/16
Lab File ID:	4M66379.D	**Injection Time:**	10:57
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	51088	9.71	55887	12.70	128551	16.88	105934	21.48
Upper Limit [a]	102176	10.21	111774	13.20	257102	17.38	211868	21.98
Lower Limit [b]	25544	9.21	27944	12.20	64276	16.38	52967	20.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	39303	9.71	42601	12.70	98063	16.88	81678	21.48
OP94971A-MB1	27244	9.71	31001	12.70	68756	16.88	57141	21.48
OP94971A-BS12	29474	9.71	33136	12.70	74595	16.88	60440	21.48
ZZZZZZ	38749	9.71	39211	12.70	85097	16.88	69048	21.48
ZZZZZZ	38378	9.71	38538	12.70	83102	16.88	68111	21.48
JC22505-6	31474	9.71	32255	12.70	73104	16.88	61612	21.48
ZZZZZZ	33978	9.71	37361	12.70	88955	16.88	74924	21.48
ZZZZZZ	41519	9.71	44760	12.70	100790	16.88	86601	21.48
ZZZZZZ	36496	9.71	40222	12.70	92233	16.88	80553	21.48
ZZZZZZ	29939	9.71	33335	12.70	80411	16.88	69214	21.48
ZZZZZZ	36671	9.71	39890	12.70	92344	16.88	77480	21.48
ZZZZZZ	43852	9.71	46569	12.70	109230	16.88	91887	21.48
ZZZZZZ	47553	9.71	52447	12.70	126039	16.88	103538	21.48
OP94859A-MB1	36448	9.71	42701	12.70	92770	16.88	77690	21.48
OP94859A-BS12	34732	9.71	40623	12.70	87935	16.88	73321	21.48
OP94859A-MS	33085	9.71	38251	12.70	86053	16.88	71182	21.48
OP94859A-MSD	33083	9.71	38823	12.70	86818	16.88	74719	21.48
ZZZZZZ	29738	9.71	32844	12.70	76546	16.88	63001	21.48
ZZZZZZ	41088	9.71	42603	12.70	97844	16.88	83333	21.48

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2986-CC2974	**Injection Date:**	06/28/16
Lab File ID:	4M66406.D	**Injection Time:**	08:51
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	52947	9.67	57548	12.65	125924	16.83	104932	21.44
Upper Limit [a]	105894	10.17	115096	13.15	251848	17.33	209864	21.94
Lower Limit [b]	26474	9.17	28774	12.15	62962	16.33	52466	20.94

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94835A-MS	56381	9.67	63888	12.65	139699	16.85	109454	21.44
OP94835A-MSD	45339	9.67	50284	12.65	107974	16.83	85568	21.44
OP94814A-MB1	51248	9.67	52766	12.65	112505	16.83	94701	21.44
OP95046A-MB1	56126	9.67	54130	12.65	119518	16.83	98852	21.44
ZZZZZZ	37713	9.67	37172	12.65	84120	16.83	69335	21.44
ZZZZZZ	51300	9.67	50020	12.65	113363	16.83	94016	21.44
ZZZZZZ	47796	9.67	47451	12.65	107419	16.83	90513	21.44

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2988-CC2974	**Injection Date:**	06/29/16
Lab File ID:	4M66455.D	**Injection Time:**	08:38
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	49365	9.67	51315	12.63	133505	16.83	101067	21.42
Upper Limit [a]	98730	10.17	102630	13.13	267010	17.33	202134	21.92
Lower Limit [b]	24683	9.17	25658	12.13	66753	16.33	50534	20.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JC22206-1	53930	9.67	54648	12.63	146230	16.83	106847	21.42
JC22206-2	55249	9.67	54567	12.63	139956	16.83	105043	21.42
JC22206-3	48297	9.67	47331	12.63	122203	16.83	94338	21.42

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2989-CC2974	**Injection Date:**	06/29/16
Lab File ID:	4M66460.D	**Injection Time:**	11:29
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	47318	9.67	62392	12.63	147870	16.83	115141	21.42
Upper Limit [a]	94636	10.17	124784	13.13	295740	17.33	230282	21.92
Lower Limit [b]	23659	9.17	31196	12.13	73935	16.33	57571	20.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95121A-MB1	39348	9.67	50358	12.63	116026	16.83	92490	21.42
OP95121A-BS12	44495	9.67	55262	12.63	126338	16.83	99428	21.42
ZZZZZZ	36287	9.67	46892	12.63	109439	16.83	90356	21.42
JC22698-6	37831	9.67	51013	12.63	114497	16.83	92927	21.42
OP95121A-MSD	39284	9.67	49968	12.63	112059	16.83	89307	21.42
JC22206-4 [c]	32960	9.67	43190	12.63	98544	16.83	80200	21.42
JC22206-5 [c]	32667	9.67	41701	12.63	95390	16.83	77794	21.42
JC22206-6	45094	9.67	58008	12.63	135596	16.83	91305	21.42
JC22206-7	39517	9.67	51395	12.63	117092	16.83	79897	21.42
JC22206-9	47634	9.67	62138	12.63	150910	16.83	122790	21.42
JC22206-10	37296	9.67	48799	12.63	114554	16.83	91368	21.42
JC22206-11	40881	9.67	51695	12.63	123884	16.83	103930	21.42
ZZZZZZ	39848	9.67	51391	12.63	121251	16.83	99923	21.42
ZZZZZZ	42069	9.67	53197	12.63	128288	16.83	104775	21.42
ZZZZZZ	34263	9.67	41877	12.63	100510	16.83	81445	21.42
JC22349-1	52233	9.67	60386	12.63	145171	16.84	122619	21.45
ZZZZZZ	65587	9.67	59241	12.65	134719	16.86	89328	21.49
OP94971A-MS	56734	9.67	63143	12.65	143046	16.86	103192	21.48
OP94971A-MSD	48638	9.67	54914	12.65	135406	16.86	96424	21.48

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.
(c) There is compound contamination in MB. The results confirmed by re-extraction outside holding time.

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2990-CC2974	**Injection Date:**	06/30/16
Lab File ID:	4M66486.D	**Injection Time:**	08:53
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	75885	9.81	132323	12.79	194117	16.97	160785	21.57
Upper Limit [a]	151770	10.31	264646	13.29	388234	17.47	321570	22.07
Lower Limit [b]	37943	9.31	66162	12.29	97059	16.47	80393	21.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JC22206-8	71297	9.81	113297	12.79	159405	16.97	134108	21.58
ZZZZZZ	67654	9.81	104462	12.79	149426	16.99	126348	21.57
ZZZZZZ	76642	9.81	121289	12.79	182673	16.97	152256	21.57
ZZZZZZ	87573	9.81	140008	12.79	202100	16.97	170600	21.57
ZZZZZZ	58633	9.81	91777	12.79	132788	16.97	106785	21.57
OP95138A-MB1	62553	9.81	101612	12.79	144844	16.97	122913	21.57
OP95138A-BS12	57479	9.81	89998	12.79	129120	16.97	107725	21.57
ZZZZZZ	54945	9.81	90090	12.79	130967	16.97	104268	21.57
ZZZZZZ	55736	9.81	87595	12.79	129832	16.97	104768	21.57
ZZZZZZ	56222	9.81	89107	12.79	132873	16.97	109033	21.57
OP95203A-MB1	49546	9.81	75416	12.79	121910	16.99	100772	21.58
OP95203A-BS12	49646	9.81	75773	12.79	116151	16.99	97376	21.58
OP95203A-BSD12	51856	9.81	78409	12.79	119076	16.99	96312	21.58
ZZZZZZ	54850	9.81	80738	12.79	132374	16.99	104865	21.60
ZZZZZZ	53561	9.81	79786	12.79	142924	16.99	110020	21.60
ZZZZZZ	48962	9.81	77064	12.79	133350	16.99	106233	21.58
ZZZZZZ	57818	9.81	85700	12.79	140982	16.99	113865	21.58
OP94994A-MB1	55882	9.81	90991	12.79	139805	16.99	117908	21.58

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4M2991-CC2974	**Injection Date:**	06/30/16
Lab File ID:	4M66511.D	**Injection Time:**	22:30
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	49474	9.76	80852	12.74	152968	16.93	133763	21.54
Upper Limit [a]	98948	10.26	161704	13.24	305936	17.43	267526	22.04
Lower Limit [b]	24737	9.26	40426	12.24	76484	16.43	66882	21.04

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	56303	9.79	97948	12.76	136226	16.95	114341	21.54
ZZZZZZ	45233	9.76	86531	12.74	122577	16.93	108707	21.54
ZZZZZZ	49539	9.76	77818	12.74	140722	16.93	122909	21.54
ZZZZZZ	42608	9.76	70940	12.76	117408	16.95	82669	21.54
ZZZZZZ	49076	9.76	75748	12.74	134297	16.93	116299	21.54
ZZZZZZ	39516	9.76	61484	12.74	105578	16.93	88945	21.53
ZZZZZZ	35797	9.76	54654	12.74	94733	16.93	81237	21.53
ZZZZZZ	32357	9.76	48812	12.74	84324	16.93	71880	21.53
OP95225A-MB1	46291	9.76	69031	12.74	121569	16.93	101404	21.53
OP95225A-BS12	47330	9.76	71476	12.74	120114	16.93	98585	21.53
OP95225A-BSD12	48177	9.76	71980	12.74	117962	16.93	96579	21.53
JC22206-4 [c]	47119	9.76	71409	12.74	123358	16.93	100551	21.53
JC22206-5 [c]	48400	9.76	73551	12.74	128319	16.93	102078	21.53
OP95205A-MB1	47558	9.76	78126	12.74	126879	16.93	102570	21.53
OP95205A-BS12	49918	9.76	79254	12.74	125621	16.93	103844	21.53
OP95205A-MS	34606	9.76	55391	12.74	91268	16.93	72933	21.53
OP95205A-MSD	48362	9.76	75952	12.74	127763	16.93	101712	21.53
ZZZZZZ	57197	9.76	90262	12.74	155706	16.93	123095	21.53
ZZZZZZ	54127	9.76	82510	12.74	138692	16.93	107510	21.53
ZZZZZZ	43451	9.76	65301	12.74	110939	16.93	92114	21.53
ZZZZZZ	47266	9.76	70443	12.74	117890	16.93	96922	21.53

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.
(c) Confirmation run.

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6657-CC6644	**Injection Date:**	06/20/16
Lab File ID:	F158097.D	**Injection Time:**	07:47
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	190022	4.78	801609	5.71	485527	7.16	745293	9.08	659687	14.38	607152	17.43
Upper Limit [a]	380044	5.28	1603218	6.21	971054	7.66	1490586	9.58	1319374	14.88	1214304	17.93
Lower Limit [b]	95011	4.28	400805	5.21	242764	6.66	372647	8.58	329844	13.88	303576	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
OP94835-MB1	201640	4.78	812518	5.71	468292	7.16	720434	9.08	622710	14.38	573066	17.43
OP94835-BS1	218852	4.78	990276	5.71	515074	7.16	757230	9.08	624983	14.38	549973	17.43
ZZZZZZ	198157	4.78	801919	5.71	459367	7.16	710182	9.08	613228	14.38	557855	17.43
ZZZZZZ	198192	4.78	807048	5.71	464663	7.16	719482	9.08	616299	14.38	564397	17.43
ZZZZZZ	192801	4.78	771954	5.71	442899	7.15	682841	9.08	585968	14.38	537343	17.43
ZZZZZZ	206906	4.78	831353	5.71	483608	7.15	739839	9.08	628367	14.38	587802	17.43
ZZZZZZ	196836	4.78	792449	5.71	459326	7.15	702087	9.08	607635	14.38	557723	17.43
ZZZZZZ	214371	4.78	851327	5.71	486082	7.16	746376	9.08	621671	14.38	567971	17.43
ZZZZZZ	216086	4.78	871458	5.71	505315	7.16	781247	9.08	673640	14.38	595087	17.43
ZZZZZZ	204916	4.78	818607	5.71	474092	7.16	738239	9.08	636189	14.38	522030	17.43
ZZZZZZ	203679	4.78	825532	5.71	476122	7.16	724993	9.08	617310	14.38	387979	17.42
ZZZZZZ	216117	4.78	865814	5.71	499531	7.16	760669	9.08	638117	14.38	586553	17.43
ZZZZZZ	204793	4.78	815296	5.71	469116	7.16	723006	9.08	617263	14.38	562997	17.43
ZZZZZZ	208186	4.78	836956	5.71	483825	7.16	746695	9.08	635145	14.38	569747	17.43
ZZZZZZ	205816	4.78	834457	5.71	497198	7.16	758248	9.08	640829	14.38	574073	17.43
ZZZZZZ	211901	4.78	857349	5.71	501679	7.16	773801	9.08	662207	14.38	599356	17.43
JC22025-21	215888	4.78	884274	5.71	509297	7.16	791330	9.08	680301	14.38	617813	17.43
ZZZZZZ	215597	4.78	864339	5.71	505717	7.16	777300	9.08	672365	14.38	613904	17.43
ZZZZZZ	213026	4.78	861352	5.71	503055	7.16	778362	9.08	668466	14.38	612310	17.43
ZZZZZZ	198983	4.78	805773	5.71	470112	7.16	725388	9.08	620652	14.38	559810	17.43
ZZZZZZ	225478	4.78	916414	5.71	536194	7.16	834430	9.08	708896	14.38	646235	17.43

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6659-CC6644	**Injection Date:**	06/21/16
Lab File ID:	F158152.D	**Injection Time:**	11:50
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	196631	4.76	787247	5.69	441372	7.13	667373	9.04	581353	14.33	531607	17.37
Upper Limit [a]	393262	5.26	1574494	6.19	882744	7.63	1334746	9.54	1162706	14.83	1063214	17.87
Lower Limit [b]	98316	4.26	393624	5.19	220686	6.63	333687	8.54	290677	13.83	265804	16.87

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
OP94916-BS1	176153	4.76	784367	5.69	435076	7.13	678216	9.04	602058	14.33	560660	17.37
ZZZZZZ	185829	4.76	754093	5.68	442594	7.13	698015	9.03	624087	14.32	579269	17.37
ZZZZZZ	181090	4.76	731257	5.68	427980	7.13	686370	9.04	633722	14.32	590189	17.37
ZZZZZZ	197936	4.76	788439	5.68	459733	7.13	711668	9.03	624528	14.32	582271	17.37
ZZZZZZ	189681	4.76	760605	5.69	452093	7.13	708270	9.03	609860	14.32	572871	17.37
ZZZZZZ	182993	4.76	737324	5.69	441198	7.13	694165	9.03	605567	14.32	558796	17.37
ZZZZZZ	170496	4.76	697054	5.68	417905	7.13	643474	9.03	568236	14.32	524375	17.37
ZZZZZZ	170405	4.78	648430	5.70	434566	7.13	679844	9.03	606849	14.32	551724	17.37
ZZZZZZ	181334	4.76	719146	5.69	435231	7.13	686576	9.03	586781	14.32	532231	17.37
ZZZZZZ	203624	4.76	808737	5.69	480527	7.13	745336	9.03	649703	14.33	602743	17.37
OP94835-MS	198607	4.76	899068	5.69	489144	7.13	756911	9.04	652655	14.33	606097	17.38
OP94835-MSD	182141	4.76	823279	5.69	440372	7.13	693922	9.04	609118	14.33	559153	17.38
ZZZZZZ	214020	4.76	863436	5.68	510792	7.13	793179	9.03	693237	14.33	637450	17.37
ZZZZZZ	189542	4.76	763679	5.68	453760	7.13	698874	9.03	608775	14.32	557310	17.37
ZZZZZZ	179368	4.76	725357	5.68	428484	7.13	663675	9.03	582994	14.32	527475	17.37

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6662-CC6644	**Injection Date:**	06/23/16
Lab File ID:	F158255.D	**Injection Time:**	10:43
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	139229	4.73	521392	5.65	303712	7.07	480035	8.97	421639	14.25	383993	17.29
Upper Limit [a]	278458	5.23	1042784	6.15	607424	7.57	960070	9.47	843278	14.75	767986	17.79
Lower Limit [b]	69615	4.23	260696	5.15	151856	6.57	240018	8.47	210820	13.75	191997	16.79

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
OP94885-MB1	110960	4.72	420116	5.65	246842	7.07	390512	8.96	337123	14.24	307871	17.28
ZZZZZZ	121988	4.72	468937	5.65	265900	7.07	422533	8.96	370869	14.24	334251	17.28
ZZZZZZ	118803	4.72	449701	5.65	260084	7.07	401206	8.96	347738	14.24	313709	17.29
ZZZZZZ	116511	4.72	446413	5.65	256738	7.07	398884	8.96	338549	14.24	295168	17.28
OP94784-MB1	143325	4.73	560983	5.65	336188	7.07	547399	8.96	474623	14.24	428251	17.29
ZZZZZZ	113616	4.72	429301	5.65	257634	7.07	413476	8.96	356376	14.24	319964	17.29
ZZZZZZ	162296	4.73	629105	5.65	370793	7.07	592898	8.97	527996	14.24	484567	17.29
ZZZZZZ	133776	4.72	518698	5.65	302368	7.07	479957	8.96	412548	14.24	379387	17.29
ZZZZZZ	189140	4.73	707368	5.65	415476	7.07	668076	8.97	576416	14.24	538389	17.29
ZZZZZZ	242379	4.73	934975	5.65	549896	7.07	859782	8.97	737848	14.25	684285	17.29
ZZZZZZ	239815	4.72	925091	5.65	531462	7.07	846086	8.97	739170	14.25	681607	17.29
ZZZZZZ	181964	4.72	692484	5.65	404055	7.07	636100	8.97	539392	14.24	495286	17.29
ZZZZZZ	171801	4.72	664408	5.65	381800	7.07	458158	8.98	521264	14.24	479910	17.28
JC22206-1	149329	4.72	578674	5.65	336127	7.07	540614	8.96	465421	14.24	409854	17.28
JC22206-2	168740	4.72	653044	5.65	380605	7.07	610220	8.96	552450	14.24	474608	17.29
OP94799-MB1	141225	4.72	551741	5.65	321946	7.07	495812	8.96	432995	14.24	391045	17.28
ZZZZZZ	143817	4.72	553958	5.65	315845	7.07	495918	8.96	429678	14.24	390946	17.28
OP94885-MS	159416	4.72	678279	5.65	352626	7.07	551267	8.96	472790	14.25	430479	17.29
OP94885-MSD	152726	4.73	641684	5.65	343730	7.07	532530	8.97	466799	14.24	419577	17.29
ZZZZZZ	166037	4.73	642936	5.65	376388	7.08	605786	8.98	565890	14.25	508188	17.29
ZZZZZZ	171036	4.73	645391	5.65	382836	7.07	610628	8.96	543643	14.24	513655	17.29
ZZZZZZ	151549	4.74	523441	5.66	340991	7.08	569223	8.98	462392	14.25	325381	17.30
ZZZZZZ	137107	4.73	550467	5.65	332814	7.08	542639	8.98	465735	14.25	419782	17.31
ZZZZZZ	189558	4.73	721913	5.65	430596	7.08	684711	8.97	610337	14.25	566578	17.29

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6663-CC6644	**Injection Date:**	06/24/16
Lab File ID:	F158290.D	**Injection Time:**	07:56
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	248187	4.72	965202	5.64	572845	7.07	918241	8.96	800457	14.25	773041	17.29
Upper Limit [a]	496374	5.22	1930404	6.14	1145690	7.57	1836482	9.46	1600914	14.75	1546082	17.79
Lower Limit [b]	124094	4.22	482601	5.14	286423	6.57	459121	8.46	400229	13.75	386521	16.79

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
JC22206-3	217884	4.72	843610	5.64	502809	7.07	820252	8.95	735653	14.23	673269	17.28
ZZZZZZ	208912	4.72	813397	5.64	479866	7.06	778668	8.95	686753	14.23	618914	17.28
ZZZZZZ	211328	4.72	817274	5.64	491174	7.06	790289	8.95	706967	14.23	634930	17.28
ZZZZZZ	211861	4.72	823789	5.64	491867	7.06	806715	8.95	712377	14.23	647543	17.27
ZZZZZZ	204149	4.72	799697	5.64	467237	7.06	751376	8.95	671683	14.23	619549	17.27
ZZZZZZ	224864	4.72	859119	5.64	512925	7.06	805781	8.95	707312	14.23	648402	17.27
ZZZZZZ	215552	4.72	837646	5.64	510506	7.06	812259	8.95	713151	14.23	651672	17.27
ZZZZZZ	257969	4.72	973787	5.64	560369	7.06	884848	8.95	735457	14.23	669739	17.27
ZZZZZZ	221480	4.72	851435	5.64	505207	7.06	813382	8.95	724967	14.23	655621	17.27
ZZZZZZ	217714	4.72	836948	5.64	500414	7.06	787879	8.95	699483	14.23	639348	17.27
ZZZZZZ	248093	4.72	960989	5.64	567274	7.06	911406	8.95	787788	14.23	715256	17.27
ZZZZZZ	209059	4.72	801229	5.64	476907	7.06	773063	8.95	677724	14.23	620572	17.27
JC22412-2	215354	4.72	845728	5.64	492241	7.06	799591	8.95	698422	14.23	633605	17.27

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6666-CC6644	**Injection Date:**	06/27/16
Lab File ID:	F158368.D	**Injection Time:**	07:35
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	209814	4.68	851031	5.60	494096	7.02	775128	8.88	694465	14.15	651035	17.19
Upper Limit [a]	419628	5.18	1702062	6.10	988192	7.52	1550256	9.38	1388930	14.65	1302070	17.69
Lower Limit [b]	104907	4.18	425516	5.10	247048	6.52	387564	8.38	347233	13.65	325518	16.69

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
OP95077-MB1	185802	4.68	745067	5.60	427177	7.02	674408	8.89	581150	14.14	538071	17.18
OP95077-BS1	195288	4.68	873350	5.60	456275	7.02	729294	8.88	643631	14.15	607392	17.19
OP94859-MB1	220817	4.68	868690	5.60	499722	7.01	771810	8.88	666113	14.14	621308	17.18
OP94859-BS1	195796	4.68	896849	5.60	466214	7.02	731850	8.88	647408	14.15	593057	17.19
ZZZZZZ	204022	4.68	814155	5.60	470878	7.02	751673	8.88	665523	14.14	610505	17.18
ZZZZZZ	217173	4.68	875696	5.60	504441	7.01	791875	8.88	681244	14.14	633474	17.18
JC22796-1	219667	4.68	852878	5.60	486726	7.01	751306	8.88	663047	14.14	608056	17.18
ZZZZZZ	222223	4.68	870476	5.60	508428	7.02	773546	8.88	682194	14.14	637148	17.19
OP95077-MS	203787	4.68	898579	5.60	479924	7.02	745286	8.88	669277	14.15	623995	17.19
OP95077-MSD	195335	4.68	867740	5.60	460796	7.02	716938	8.88	648149	14.15	599758	17.19
JC22206-4	236979	4.68	943639	5.60	539278	7.01	847866	8.88	771824	14.14	715624	17.19
JC22206-5	249881	4.68	986920	5.60	587437	7.02	931435	8.89	836869	14.14	776111	17.19
JC22206-6	199212	4.68	790664	5.60	459013	7.01	707612	8.89	617792	14.14	433473	17.18
JC22206-7	240564	4.68	957260	5.60	555222	7.02	862379	8.88	751820	14.14	581516	17.18
JC22206-8	187430	4.69	757445	5.60	445347	7.02	698092	8.88	622138	14.14	573608	17.19
JC22206-9	207607	4.68	816081	5.60	467459	7.01	716362	8.88	614433	14.14	569503	17.19

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6667-CC6644	**Injection Date:**	06/27/16
Lab File ID:	F158395.D	**Injection Time:**	23:12
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	231753	4.66	924001	5.59	547319	7.00	843035	8.87	741907	14.13	674557	17.16
Upper Limit [a]	463506	5.16	1848002	6.09	1094638	7.50	1686070	9.37	1483814	14.63	1349114	17.66
Lower Limit [b]	115877	4.16	462001	5.09	273660	6.50	421518	8.37	370954	13.63	337279	16.66

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
OP95016-MB1	205269	4.66	837551	5.59	499188	6.99	793283	8.86	674758	14.11	610973	17.15
OP95016-BS1	205167	4.66	937883	5.59	502356	7.00	782463	8.86	656627	14.11	604688	17.15
OP95016-MS	217255	4.66	957854	5.59	529452	7.00	840468	8.86	707940	14.12	652988	17.15
OP95016-MSD	204293	4.66	938822	5.59	504536	7.00	799194	8.86	673651	14.12	618749	17.15
ZZZZZZ	230695	4.66	922730	5.59	552481	7.00	879034	8.87	774293	14.12	706253	17.15
ZZZZZZ	213033	4.66	865507	5.59	525238	6.99	833970	8.86	710168	14.11	647550	17.15
ZZZZZZ	221358	4.66	917676	5.59	540321	6.99	857144	8.86	717855	14.11	661887	17.15
JC22477-1	207165	4.66	861332	5.59	507085	6.99	803075	8.86	700571	14.11	644742	17.15
ZZZZZZ	214135	4.66	867062	5.59	518172	6.99	822946	8.86	703437	14.11	654008	17.15
ZZZZZZ	221675	4.66	878391	5.59	539377	7.00	861594	8.87	744177	14.12	679849	17.16
ZZZZZZ	217833	4.66	891858	5.59	537338	6.99	856704	8.86	734702	14.11	669170	17.15
ZZZZZZ	220829	4.66	918325	5.59	550601	6.99	879099	8.86	749351	14.11	695739	17.15
ZZZZZZ	208193	4.66	855766	5.59	507828	6.99	802787	8.86	690558	14.11	646636	17.15
ZZZZZZ	209750	4.66	875319	5.59	525103	6.99	830328	8.86	713017	14.11	651969	17.15
ZZZZZZ	198110	4.66	816695	5.59	486902	6.99	772283	8.86	658236	14.11	605373	17.15
ZZZZZZ	209097	4.66	852391	5.59	502697	6.99	785959	8.86	658538	14.11	603495	17.15
ZZZZZZ	204776	4.66	839775	5.59	504586	6.99	793581	8.86	675627	14.11	616020	17.15
ZZZZZZ	197005	4.66	806204	5.59	477281	6.99	759992	8.86	652137	14.11	599446	17.15
ZZZZZZ	212946	4.66	884359	5.59	530105	6.99	829139	8.86	700445	14.11	643875	17.15
OP94859-MS	219774	4.66	1018798	5.59	524440	7.00	833693	8.86	716670	14.12	661924	17.16
OP94859-MSD	200884	4.66	902623	5.59	479076	7.00	749278	8.86	644326	14.12	592000	17.15

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6668-CC6644	**Injection Date:**	06/28/16
Lab File ID:	F158423.D	**Injection Time:**	12:38
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	200454	4.65	810959	5.57	462878	6.97	732220	8.83	630359	14.07	583721	17.10
Upper Limit [a]	400908	5.15	1621918	6.07	925756	7.47	1464440	9.33	1260718	14.57	1167442	17.60
Lower Limit [b]	100227	4.15	405480	5.07	231439	6.47	366110	8.33	315180	13.57	291861	16.60

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
OP95080-MB1	201730	4.65	808869	5.57	473696	6.97	735499	8.83	624821	14.06	584677	17.10
OP95080-BS1	197020	4.65	856095	5.57	460807	6.97	712121	8.83	611181	14.06	558840	17.10
ZZZZZZ	226910	4.66	987360	5.59	644351	6.99	999659	8.85	832059	14.11	714649	17.19
ZZZZZZ	192864	4.65	758575	5.57	448101	6.97	687150	8.83	588905	14.07	546472	17.10
OP95080-MS	182131	4.65	822612	5.57	433605	6.97	671194	8.83	558750	14.07	515698	17.11
OP95080-MSD	182458	4.65	815804	5.57	430611	6.97	657984	8.83	545041	14.07	503963	17.10
JC22733-1	192630	4.65	786176	5.57	455292	6.97	703406	8.83	585841	14.07	539298	17.10
ZZZZZZ	222740	4.65	871348	5.57	505865	6.97	786370	8.83	655154	14.07	603830	17.10
ZZZZZZ	198764	4.65	783020	5.57	452119	6.97	703371	8.83	598925	14.07	555695	17.10
ZZZZZZ	210571	4.65	850918	5.57	507904	6.98	782469	8.84	665713	14.07	613349	17.10
ZZZZZZ	183091	4.65	604956	5.58	410380	7.01	620542	8.90	549348	14.16	501929	17.21
JC22206-10	165750	4.65	652846	5.57	381291	6.98	595545	8.84	501533	14.07	458288	17.11
JC22206-11	219477	4.65	866619	5.57	504589	6.97	783746	8.84	676969	14.07	624823	17.11
JC22206-7	174131	4.65	708894	5.57	422911	6.97	662090	8.83	536596	14.07	499905	17.11
JC22206-9	171042	4.65	701488	5.57	419603	6.97	657607	8.83	546707	14.07	515680	17.11
OP95141-MB1	164225	4.65	669840	5.57	406046	6.97	634240	8.83	499997	14.07	462003	17.11
OP95141-BS1	179774	4.65	814962	5.57	447408	6.97	694462	8.83	538479	14.08	499108	17.11
OP95141-BS13	170223	4.65	684314	5.57	419251	6.97	671041	8.83	522505	14.07	478947	17.11
OP95141-MS	176247	4.65	808952	5.57	443038	6.97	680000	8.83	548639	14.08	506712	17.11
OP95141-MSD	184585	4.65	830959	5.57	459583	6.98	708863	8.84	545800	14.08	500977	17.11
ZZZZZZ	156032	4.65	640027	5.57	386112	6.97	599662	8.83	470358	14.07	432414	17.10
JC22700-3	161813	4.65	668212	5.57	399409	6.97	630694	8.83	491088	14.07	452973	17.10
ZZZZZZ	173981	4.65	702318	5.57	421020	6.97	654844	8.83	511225	14.07	469078	17.10
ZZZZZZ	180752	4.65	741454	5.57	444675	6.97	690286	8.83	535816	14.07	484577	17.10
ZZZZZZ	169871	4.65	700389	5.57	417886	6.97	649794	8.83	511525	14.07	470412	17.10

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6670-CC6644	**Injection Date:**	06/29/16
Lab File ID:	F158463B.D	**Injection Time:**	10:58
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	288196	4.77	1153121	5.69	664179	7.13	1016781	9.05	879557	14.35	803011	17.39
Upper Limit [a]	576392	5.27	2306242	6.19	1328358	7.63	2033562	9.55	1759114	14.85	1606022	17.89
Lower Limit [b]	144098	4.27	576561	5.19	332090	6.63	508391	8.55	439779	13.85	401506	16.89

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
OP95119-MB1	248054	4.77	978318	5.69	553552	7.13	843575	9.04	680070	14.34	603728	17.39
OP95119-BS1	255305	4.77	1137823	5.69	580502	7.13	873436	9.05	695546	14.34	619278	17.39
OP95119-BS13 [c]	280552	4.77	1123662	5.69	643372	7.13	975695	9.04	782808	14.34	686001	17.39
OP95119-BS14	255623	4.77	1031324	5.69	584877	7.13	900726	9.04	724920	14.33	652047	17.39
JC22733-1	224748	4.77	921650	5.69	546016	7.13	836726	9.04	618332	14.33	562917	17.38
JC22733-1	226376	4.77	927996	5.69	555812	7.13	867194	9.04	628211	14.33	562300	17.38
JC22738-1	248628	4.77	989961	5.69	570477	7.13	871366	9.04	716956	14.33	640657	17.38
OP95119-MS	285453	4.77	1276274	5.69	671950	7.13	1014570	9.05	813311	14.35	732040	17.39
OP95119-MSD	240663	4.77	1094431	5.69	556207	7.13	851047	9.05	673992	14.34	611082	17.39
JC22206-10	212918	4.77	869791	5.69	520835	7.13	819774	9.05	637156	14.34	576005	17.40
ZZZZZZ	197787	4.77	813198	5.70	498851	7.14	766832	9.06	626058	14.36	562092	17.41

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

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) low,ap9-rx

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EZ5596-CC5571	**Injection Date:**	06/29/16
Lab File ID:	Z111966.D	**Injection Time:**	11:55
Instrument ID:	GCMSZ	**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	130567	4.62	518895	5.54	288558	6.92	479277	8.77	485070	14.00	437451	17.04
Upper Limit [a]	261134	5.12	1037790	6.04	577116	7.42	958554	9.27	970140	14.50	874902	17.54
Lower Limit [b]	65284	4.12	259448	5.04	144279	6.42	239639	8.27	242535	13.50	218726	16.54

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
OP95160-MB1	161741	4.62	623409	5.53	352319	6.92	559962	8.76	521311	13.98	520330	17.03
OP95160-BS1	151294	4.62	575189	5.53	314296	6.92	500225	8.76	446896	13.99	456312	17.02
OP95083-MB1	179232	4.61	693461	5.53	373275	6.92	587929	8.76	519786	13.98	504965	17.02
ZZZZZZ	161660	4.61	622174	5.53	341395	6.92	536542	8.75	543937	13.98	496322	17.02
JC22206-8 [c]	167803	4.62	619513	5.54	350011	6.92	557537	8.75	591916	13.97	514520	17.02
ZZZZZZ	155872	4.61	607738	5.53	340479	6.91	548547	8.75	501637	13.97	513010	17.01
ZZZZZZ	160383	4.61	621793	5.53	347007	6.91	564787	8.75	508155	13.97	525113	17.01
ZZZZZZ	174778	4.61	683227	5.53	381546	6.91	605163	8.75	537480	13.96	563589	17.00
ZZZZZZ	175490	4.61	696804	5.53	387188	6.91	617214	8.75	552422	13.97	565296	17.00
ZZZZZZ	147640	4.61	572084	5.53	317031	6.91	510400	8.75	468261	13.96	490601	17.00
ZZZZZZ	167509	4.61	649652	5.53	354421	6.91	565624	8.75	503615	13.96	527296	17.00
JC22702-8	163389	4.61	636076	5.53	355138	6.91	576136	8.75	516253	13.96	538959	16.99
ZZZZZZ	175978	4.61	661935	5.53	363634	6.91	582599	8.75	515715	13.95	542323	16.99
OP95160-MS	167493	4.61	645670	5.53	347025	6.91	553854	8.75	470402	13.96	504585	16.99
OP95160-MSD	162985	4.61	624875	5.53	338544	6.91	541494	8.75	462890	13.96	504348	16.99
ZZZZZZ	147617	4.61	556046	5.53	343717	6.91	606710	8.74	552448	13.95	508910	16.99
ZZZZZZ	155242	4.61	615774	5.53	350946	6.91	575458	8.74	595913	13.95	523674	16.99
ZZZZZZ	116721	4.61	417804	5.53	260331	6.92	460945	8.76	490753	13.96	446173	16.99
ZZZZZZ	86928	4.61	357544	5.53	214430	6.91	354097	8.75	345269	13.95	295424	16.99
ZZZZZZ	188951	4.61	694101	5.53	368561	6.91	655906	8.74	570926	13.97	546191	17.01

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

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run for surrogate recoveries.

Semivolatile Surrogate Recovery Summary

Job Number: JC22206
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
JC22206-1	F158276.D	44	28	86	64	71	74
JC22206-2	F158277.D	50	34	104	74	83	83
JC22206-3	F158293.D	53	34	112	80	85	92
JC22206-4	F158384.D	55	36	105	82	80	89
JC22206-5	F158385.D	51	34	99	81	77	80
JC22206-6	F158386.D	55	36	104	78	75	90
JC22206-7	F158442.D	51	35	92	82	81	90
JC22206-7	F158387.D	52	34	97	78	75	82
JC22206-8	Z111971.D	6* [a]	41	82	85	76	63
JC22206-8	F158388.D	4* [b]	33	108	91	88	82
JC22206-9	F158443.D	0* [c]	0* [c]	0* [c]	0* [c]	0* [c]	0* [c]
JC22206-9	F158389.D	54	34	110	86	84	90
JC22206-10	F158478.D	0* [c]	0* [c]	0* [c]	0* [c]	0* [c]	0* [c]
JC22206-10	F158440.D	55	37	109	83	77	96
JC22206-11	F158441.D	55	36	106	82	76	99
OP94835-BS1	F158100.D	56	37	96	65	78	91
OP94835-MB1	F158099.D	50	32	97	70	76	91
OP94835-MS	F158171.D	54	36	94	62	74	85
OP94835-MSD	F158172.D	53	37	104	65	83	92
OP94859-BS1	F158373.D	55	37	103	75	83	96
OP94859-MB1	F158372.D	47	30	99	80	78	92
OP94859-MS	F158417.D	60	42	109	80	88	95
OP94859-MSD	F158418.D	51	35	85	66	69	74

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%

(a) Outside control limits due to matrix interference.
(b) Outside control limits due to matrix interference. Confirmed by re-extraction.
(c) Outside control limits due to dilution.

Semivolatile Surrogate Recovery Summary

Job Number: JC22206
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
JC22206-1	4M66456.D	57	52	63
JC22206-2	4M66457.D	74	69	94
JC22206-3	4M66458.D	76	71	98
JC22206-4	4M66525.D	83	68	72
JC22206-4	4M66467.D	95	102	94
JC22206-5	4M66526.D	74	60	77
JC22206-5	4M66468.D	90	95	86
JC22206-6	4M66469.D	86	90	97
JC22206-7	4M66470.D	78	83	74
JC22206-8	4M66487.D	75	59	94
JC22206-9	4M66472.D	82	88	85
JC22206-10	4M66473.D	91	92	100
JC22206-11	4M66474.D	86	86	101
OP94835A-BS12	4M66273.D	81	81	95
OP94835A-MB1	4M66272.D	77	78	92
OP94835A-MS	4M66407.D	62	50	75
OP94835A-MSD	4M66408.D	64	50	82
OP94859A-BS12	4M66391.D	80	74	94
OP94859A-MB1	4M66390.D	79	73	90
OP94859A-MB1	3M62585.D	78	62	85
OP94859A-MB1	2M85121.D	70	75	85
OP94859A-MS	4M66392.D	77	73	93
OP94859A-MSD	4M66393.D	84	79	92

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

Initial Calibration Summary

Job Number: JC22206 **Sample:** E2M3720-ICC3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84437.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS

Method : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Wed Jun 08 14:38:41 2016
Response via : Initial Calibration

Calibration Files
2 =2m84433.D 5 =2m84440.D 25 =2m84438.D 80 =2m84436.D
100 =2m84435.D 50 =2m84437.D 1 =2m84434.D 10 =2m84439.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.662	0.544	0.500	0.505	0.501	0.500	0.529	0.479	0.527	10.96
3) Pyridine									0.000#	-1.00
4) N-Nitrosodim									0.000#	-1.00
5) 2-Fluorophen	1.397	1.461	1.394	1.422	1.415	1.420	1.390	1.429	1.416	1.64
6) Indene	2.923	2.872	2.514	2.386	2.299	2.511	3.007	2.741	2.656	9.96
7) Cumene	4.222	4.104	3.760	3.640	3.585	3.731	4.200	3.936	3.897	6.52
8) Phenol-d5	1.955	1.925	1.740	1.641	1.613	1.735	1.902	1.827	1.792	7.25
9) Phenol	2.329	2.402	2.165	2.062	2.022	2.141	2.296	2.277	2.212	6.10
10) Aniline	2.395	2.397	2.152	1.962	1.909	2.079	2.335	2.336	2.196	8.97
11) bis(2-Chloro	1.568	1.631	1.452	1.454	1.416	1.482	1.806	1.561	1.546	8.25
12) 2-Chlorophen	1.625	1.610	1.398	1.283	1.238	1.384	1.706	1.497	1.468	11.55
13) Decane	1.818	1.762	1.520	1.215		1.388		1.684	1.564	14.92
14) 1,3-Dichloro	1.785	1.747	1.575	1.540	1.535	1.580	1.819	1.656	1.655	6.92
15) 1,4-Dichloro	1.803	1.740	1.605	1.556	1.552	1.596	1.686	1.672	1.651	5.45
16) Benzyl alcoh	1.037	1.040	0.996	0.924	0.877	0.978	1.021	1.050	0.990	6.22
17) 1,2-Dichloro	1.685	1.635	1.492	1.421	1.407	1.505	1.723	1.569	1.555	7.61
18) Acetophenone	2.336	2.354	2.098	1.972	1.908	2.088	2.328	2.267	2.169	8.09
19) 2-Methylphen	1.552	1.558	1.397	1.373	1.364	1.385	1.443	1.477	1.443	5.43
20) 2,2'-oxybis(	2.213	2.187	1.898	1.647	1.579	1.819	2.229	2.109	1.960	13.32
21) 3&4-Methylph	1.662	1.597	1.501	1.489	1.468	1.514	1.634	1.583	1.556	4.67
22) n-Nitroso-di	1.348	1.282	1.144	1.064	1.029	1.131	1.336	1.282	1.202	10.39
23) Hexachloroet	0.550	0.564	0.499	0.508	0.507	0.513	0.528	0.523	0.524	4.35
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.435	0.455	0.426	0.411	0.407	0.428	0.519	0.450	0.441	8.03
26) Nitrobenzene	0.475	0.466	0.452	0.434	0.418	0.440	0.476	0.466	0.453	4.68
27) Quinoline	0.778	0.746	0.713	0.708	0.697	0.714		0.738	0.728	3.84
28) Isophorone	0.820	0.824	0.760	0.732	0.710	0.746	0.822	0.796	0.776	5.82
29) 2-Nitropheno	0.219	0.216	0.204	0.189	0.182	0.201	0.204	0.209	0.203	6.17
30) 2,4-Dimethyl	0.390	0.407	0.380	0.378	0.371	0.384	0.433	0.401	0.393	5.16
31) Benzoic acid		0.144	0.223	0.256	0.258	0.247		0.195	0.220	20.18
----- Quadratic regression ----- Coefficient = 0.9999										
Response Ratio = -0.01519 + 0.25083 *A + 0.00575 *A^2										
32) bis(2-Chloro	0.466	0.457	0.437	0.412	0.400	0.418	0.481	0.452	0.440	6.46
33) 2,4-Dichloro	0.303	0.307	0.292	0.286	0.279	0.293	0.325	0.306	0.299	4.84
34) 2,6-Dichloro	0.305	0.303	0.284	0.279	0.269	0.286	0.318	0.302	0.293	5.53
35) 1,3,5-Trichl	0.365	0.363	0.333	0.318	0.307	0.331	0.376	0.348	0.343	7.11
36) 1,2,4-Trichl	0.348	0.328	0.325	0.312	0.306	0.318	0.368	0.336	0.330	6.19
37) 1,2,3-Trichl	0.331	0.330	0.312	0.304	0.301	0.310	0.356	0.326	0.321	5.62
38) Naphthalene	1.180	1.150	1.069	1.024	0.990	1.054	1.239	1.135	1.105	7.67
39) 4-Chloroanil	0.459	0.454	0.425	0.398	0.379	0.414	0.441	0.450	0.427	6.74
40) 2,3-Dichloro	0.411	0.385	0.354	0.344	0.338	0.355		0.371	0.365	6.97
41) Caprolactam	0.177	0.186	0.176	0.175	0.172	0.174		0.187	0.178	3.22
42) Hexachlorobu	0.188	0.187	0.172	0.170	0.169	0.171	0.215	0.180	0.181	8.50
43) 4-Chloro-3-m	0.371	0.364	0.344	0.342	0.334	0.347	0.362	0.363	0.353	3.76

Initial Calibration Summary

Job Number: JC22206 **Sample:** E2M3720-ICC3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84437.D
Project: BMSMC, Building 5 Area, PR

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44) 2-Methylnaph 0.674 0.633 0.598 0.574 0.556 0.586 0.682 0.617 0.615   7.44
45) 1-Methylnaph 0.708 0.660 0.631 0.599 0.580 0.610 0.696 0.669 0.644   7.19
46) Dimethylnaph 0.722 0.669 0.647 0.624 0.606 0.637       0.679 0.655   5.92

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.036 0.132 0.215 0.215 0.182       0.073 0.142  52.92
         ----- Quadratic regression -----                Coefficient =  0.9978
              Response Ratio = -0.05448 + 0.18280 *A + 0.00932 *A^2

49) 2,4,6-Trichl 0.386 0.368 0.362 0.354 0.354 0.357 0.405 0.363 0.369   4.90
50) 2,4,5-Trichl 0.390 0.370 0.371 0.369 0.365 0.369 0.414 0.383 0.379   4.37
51) 2-Fluorobiph 1.367 1.350 1.258 1.211 1.199 1.220 1.413 1.297 1.289   6.24
52) 2-Chloronaph 1.209 1.197 1.132 1.102 1.076 1.106 1.292 1.170 1.161   6.12
53) Biphenyl     1.643 1.608 1.513 1.469 1.439 1.477 1.719 1.562 1.554   6.26
54) 2-Nitroanili 0.470 0.474 0.462 0.441 0.434 0.443 0.518 0.463 0.463   5.71
55) Dimethylphth 1.391 1.359 1.293 1.250 1.241 1.254 1.414 1.329 1.316   5.09
56) Acenaphthyle 2.072 1.978 1.901 1.856 1.813 1.863 2.106 1.934 1.940   5.41
57) 2,6-Dinitrot 0.290 0.302 0.298 0.297 0.297 0.293 0.316 0.302 0.300   2.62
58) 3-Nitroanili 0.326 0.348 0.345 0.349 0.343 0.351 0.348 0.361 0.346   2.80
59) Acenaphthene 1.240 1.252 1.147 1.131 1.102 1.128 1.335 1.186 1.190   6.68
60) 2,4-Dinitrop 0.036 0.034 0.098 0.146 0.151 0.128       0.069 0.094  52.25
         ----- Quadratic regression -----                Coefficient =  0.9990
              Response Ratio = -0.01925 + 0.11290 *A + 0.00864 *A^2

61) 4-Nitropheno 0.133 0.118 0.161 0.180 0.181 0.173 0.140 0.152 0.155  14.93
62) Dibenzofuran 1.776 1.657 1.598 1.554 1.513 1.568 1.838 1.632 1.642   6.84
63) 2,4-Dinitrot 0.432 0.419 0.406 0.410 0.402 0.414 0.433 0.411 0.416   2.73
64) 2,3,4,6-Tetr 0.237 0.217 0.231 0.240 0.243 0.234 0.238 0.217 0.232   4.30
65) Diethylphtha 1.426 1.400 1.333 1.309 1.283 1.316 1.555 1.387 1.376   6.37
66) Fluorene     1.384 1.374 1.310 1.246 1.206 1.283 1.450 1.362 1.327   6.07
67) 4-Chlorophen 0.640 0.629 0.605 0.587 0.569 0.603 0.662 0.640 0.617   5.01
68) 4-Nitroanili 0.365 0.363 0.351 0.356 0.349 0.353 0.343 0.365 0.356   2.31

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.088 0.115 0.136 0.137 0.127       0.099 0.117  17.04
         ----- Quadratic regression -----                Coefficient =  0.9997
              Response Ratio = -0.00645 + 0.12488 *A + 0.00621 *A^2

71) n-Nitrosodip 0.555 0.534 0.508 0.507 0.501 0.512 0.569 0.525 0.526   4.71
72) 1,2-Diphenyl 0.931 0.960 0.925 0.900 0.883 0.909 0.933 0.956 0.924   2.87
73) 2,4,6-Tribro 0.115 0.109 0.108 0.113 0.115 0.110 0.106 0.111 0.111   2.81
74) 4-Bromopheny 0.221 0.217 0.209 0.213 0.210 0.210 0.235 0.216 0.217   3.97
75) Hexachlorobe 0.253 0.262 0.243 0.250 0.246 0.246 0.266 0.254 0.252   3.18
76) Pentachlorop 0.043 0.033 0.061 0.087 0.091 0.075       0.045 0.062  36.48
         ----- Quadratic regression -----                Coefficient =  0.9993
              Response Ratio = -0.00774 + 0.06404 *A + 0.00580 *A^2

77) Phenanthrene 1.230 1.183 1.115 1.108 1.087 1.117 1.293 1.152 1.161   6.11
78) Anthracene   1.247 1.205 1.128 1.128 1.104 1.121 1.260 1.174 1.171   5.14
79) Carbazole    1.113 1.097 1.021 1.028 1.022 1.030 1.187 1.048 1.068   5.57
80) Di-n-butylph 1.477 1.363 1.335 1.336 1.315 1.338 1.457 1.357 1.372   4.40
81) Fluoranthene 1.255 1.170 1.141 1.158 1.139 1.158 1.243 1.164 1.179   3.82
82) Octadecane   0.614 0.603 0.554 0.516 0.497 0.538 0.609 0.587 0.565   7.97

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.458 1.339 1.286 1.343 1.370 1.307 1.475 1.347 1.366   4.93
85) Terphenyl-d1 0.964 0.882 0.857 0.914 0.918 0.887 1.015 0.887 0.915   5.61
86) Butylbenzylp 0.747 0.666 0.636 0.664 0.667 0.650 0.723 0.660 0.677   5.60
87) Benzo[a]anth 1.349 1.260 1.185 1.203 1.190 1.181 1.493 1.238 1.262   8.62
88) 3,3'-Dichlor 0.451 0.491 0.473 0.485 0.481 0.476 0.506 0.483 0.481   3.30
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** E2M3720-ICC3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84437.D
Project: BMSMC, Building 5 Area, PR

```
 89) Chrysene     1.245 1.192 1.122 1.116 1.111 1.116 1.330 1.183 1.177   6.64
 90) bis(2-Ethylh 0.997 0.912 0.842 0.779 0.760 0.823 1.038 0.920 0.884  11.32

 91) I   Perylene-d12          ----------------ISTD---------------------
 92) Di-n-octylph 1.706 2.168 1.737 1.657 1.655 1.649 1.881 2.105 1.820  11.54
 93) Benzo[b]fluo 1.367 1.419 1.206 1.316 1.337 1.272 1.455 1.333 1.338   5.88
 94) Benzo[k]fluo 1.232 1.277 1.139 1.226 1.175 1.139 1.281 1.257 1.216   4.78
 95) Benzo[a]pyre 1.139 1.071 1.025 1.106 1.101 1.071 1.228 1.088 1.104   5.43
 96) Indeno[1,2,3 1.378 1.219 1.245 1.353 1.354 1.283 1.403 1.253 1.311   5.29
 97) Dibenz(a,h)a 1.046 0.949 0.915 1.008 1.005 0.966 1.032 0.922 0.980   5.05
 98) Dibenz[a,h]a 1.152 1.071 1.072 1.190 1.198 1.113 1.195 1.047 1.130   5.49
 99) 7,12-Dimethy 0.568 0.628 0.549 0.600 0.601 0.568 0.561 0.619 0.587   4.97
100) Benzo[g,h,i] 1.173 1.060 1.064 1.140 1.134 1.092 1.197 1.100 1.120   4.44
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2M3720.M         Wed Jun 08 14:38:55 2016
```

6.7.1

6

Initial Calibration Verification

Job Number: JC22206 **Sample:** E2M3720-ICV3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84441.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e2m3720\2m84441.D Vial: 10
Acq On : 7 Jun 2016 1:04 pm Operator: ashleyn
Sample : icv3720-50 Inst : MS
Misc : op94122,e2m3720 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Wed Jun 08 14:38:41 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	119	0.00	4.91
9 t	Phenol	2.212	1.777	19.7	99	0.00	4.67
12 t	2-Chlorophenol	1.468	1.321	10.0	114	0.00	4.76
19 t	2-Methylphenol	1.443	1.302	9.8	112	-0.01	5.13
21 t	3&4-Methylphenol	1.556	1.358	12.7	107	0.00	5.26
24 I	Naphthalene-d8	1.000	1.000	0.0	113	0.00	6.05
29 t	2-Nitrophenol	0.203	0.197	3.0	110	0.00	5.68
30 t	2,4-Dimethylphenol	0.393	0.383	2.5	112	0.00	5.72
	----------	True	Calc.	% Drift	----------		
31 t	Benzoic acid	50.000	48.184	3.6	108	0.00	5.86
	----------	AvgRF	CCRF	% Dev	----------		
33 t	2,4-Dichlorophenol	0.299	0.273	8.7	105	0.00	5.93
34 t	2,6-Dichlorophenol	0.293	0.270	7.8	106	0.00	6.14
43 t	4-Chloro-3-methylphenol	0.353	0.311	11.9	101	-0.02	6.68
47 I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	8.18
49 t	2,4,6-Trichlorophenol	0.369	0.349	5.4	104	-0.01	7.19
50 t	2,4,5-Trichlorophenol	0.379	0.342	9.8	99	-0.01	7.25
	----------	True	Calc.	% Drift	----------		
60 t	2,4-Dinitrophenol	50.000	50.014	0.0	90	0.00	8.33
	----------	AvgRF	CCRF	% Dev	----------		
61 t	4-Nitrophenol	0.155	0.158	-1.9	97	-0.01	8.48
64	2,3,4,6-Tetrachlorophenol	0.232	0.237	-2.2	108	0.00	8.68
69 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	10.40
	----------	True	Calc.	% Drift	----------		
70 t	4,6-Dinitro-2-methylpheno	50.000	47.353	5.3	96	0.00	9.10
	----------	True	Calc.	% Drift	----------		
76 t	Pentachlorophenol	50.000	51.395	-2.8	92	0.00	10.14

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

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3720-ICV3720
Lab FileID: 2M84441.D

2m84348a.D M2M3720.M Wed Jun 08 14:44:08 2016

Initial Calibration Verification

Job Number: JC22206 **Sample:** E2M3720-ICV3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84442.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e2m3720\2m84442.D          Vial: 11
Acq On    :  7 Jun 2016   1:30 pm                    Operator: ashleyn
Sample    : icv3720-50                               Inst    : MS
Misc      : op94122,e2m3720                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Tue Jun 07 15:05:19 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	108	0.00	4.91
10		Aniline	2.196	2.301	-4.8	119	0.00	4.66
16	t	Benzyl alcohol	0.990	0.996	-0.6	110	0.00	5.03
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	6.05
39	t	4-Chloroaniline	0.427	0.401	6.1	105	0.00	6.14
44	t	2-Methylnaphthalene	0.615	0.566	8.0	105	0.00	6.83
47	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	8.18
54	t	2-Nitroaniline	0.463	0.407	12.1	96	0.00	7.59
58	t	3-Nitroaniline	0.346	0.316	8.7	95	0.00	8.16
62	t	Dibenzofuran	1.642	1.559	5.1	105	0.00	8.47
68	t	4-Nitroaniline	0.356	0.315	11.5	94	-0.01	9.05
69	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	10.40
79	t	Carbazole	1.068	0.986	7.7	98	0.00	10.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m84437.D M2M3720.M Tue Jun 07 15:29:15 2016

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3720-ICV3720
Lab FileID: 2M84443.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e2m3720\2m84443.D          Vial: 12
Acq On    :  7 Jun 2016   1:56 pm                     Operator: ashleyn
Sample    : icv3720-50                                Inst    : MS
Misc      : op94122,e2m3720                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Tue Jun 07 15:05:19 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	102	0.00	4.91
5	S	2-Fluorophenol	1.416	1.468	-3.7	105	0.00	3.94
8	S	Phenol-d5	1.792	1.860	-3.8	109	0.00	4.66
24	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00	6.05
25	S	Nitrobenzene-d5	0.441	0.426	3.4	102	0.00	5.38
47	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00	8.18
51	S	2-Fluorobiphenyl	1.289	1.319	-2.3	106	0.00	7.28
69	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00	10.40
73	S	2,4,6-Tribromophenol	0.111	0.123	-10.8	108	0.00	9.34
83	I	Chrysene-d12	1.000	1.000	0.0	91	-0.01	14.61
85	S	Terphenyl-d14	0.915	0.954	-4.3	97	0.00	12.96

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 2m84437.D  M2M3720.M        Tue Jun 07 15:29:16 2016
```

Initial Calibration Verification

Job Number: JC22206 **Sample:** E2M3720-ICV3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84444.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e2m3720\2m84444.D Vial: 13
Acq On : 7 Jun 2016 2:23 pm Operator: ashleyn
Sample : icv3720-50 Inst : MS
Misc : op94122,e2m3720 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Tue Jun 07 15:05:19 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	129	0.00	4.91
11	t	bis(2-Chloroethyl)ether	1.546	1.449	6.3	127	0.00	4.70
14	t	1,3-Dichlorobenzene	1.655	1.513	8.6	124	0.00	4.87
15	t	1,4-Dichlorobenzene	1.651	1.530	7.3	124	0.00	4.93
17	t	1,2-Dichlorobenzene	1.555	1.423	8.5	122	0.00	5.05
20	t	2,2'-oxybis(1-Chloropropa	1.960	1.643	16.2	117	0.00	5.12
22	t	n-Nitroso-di-n-propylamin	1.202	1.079	10.2	123	0.00	5.24
23	t	Hexachloroethane	0.524	0.512	2.3	129	0.00	5.33
24	I	Naphthalene-d8	1.000	1.000	0.0	124	0.00	6.05
26	t	Nitrobenzene	0.453	0.420	7.3	118	0.00	5.40
28	t	Isophorone	0.776	0.736	5.2	122	0.00	5.60
32	t	bis(2-Chloroethoxy)methan	0.440	0.403	8.4	119	0.00	5.80
36	t	1,2,4-Trichlorobenzene	0.330	0.312	5.5	122	0.00	5.99
38	t	Naphthalene	1.105	1.048	5.2	123	0.00	6.08
42	t	Hexachlorobutadiene	0.181	0.175	3.3	127	0.00	6.18
47	I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00	8.18
52	t	2-Chloronaphthalene	1.161	1.077	7.2	116	0.00	7.44
55	t	Dimethylphthalate	1.316	1.188	9.7	113	0.00	7.83
56	t	Acenaphthylene	1.940	1.690	12.9	108	0.00	7.99
57	t	2,6-Dinitrotoluene	0.300	0.276	8.0	113	0.00	7.92
59	t	Acenaphthene	1.190	1.103	7.3	117	0.00	8.23
63	t	2,4-Dinitrotoluene	0.416	0.356	14.4	103	0.00	8.50
65	t	Diethylphthalate	1.376	1.201	12.7	109	0.00	8.84
66	t	Fluorene	1.327	1.198	9.7	112	0.00	8.98
67	t	4-Chlorophenyl-phenylethe	0.617	0.572	7.3	113	0.00	8.98
69	I	Phenanthrene-d10	1.000	1.000	0.0	115	0.00	10.40
71	t	n-Nitrosodiphenylamine	0.526	0.485	7.8	109	0.00	9.17
72	t	1,2-Diphenylhydrazine	0.924	0.856	7.4	108	0.00	9.22
74	t	4-Bromophenyl-phenylether	0.217	0.203	6.5	111	0.00	9.72
75	t	Hexachlorobenzene	0.252	0.234	7.1	109	0.00	9.80
77	t	Phenanthrene	1.161	1.071	7.8	110	0.00	10.44
78	t	Anthracene	1.171	1.035	11.6	106	0.00	10.52
80	t	Di-n-butylphthalate	1.372	1.255	8.5	108	0.00	11.38
81	t	Fluoranthene	1.179	1.085	8.0	108	0.00	12.32
83	I	Chrysene-d12	1.000	1.000	0.0	110	0.00	14.62
84	t	Pyrene	1.366	1.294	5.3	109	0.00	12.67
86	t	Butylbenzylphthalate	0.677	0.604	10.8	102	0.00	13.78

Initial Calibration Verification

Job Number: JC22206 **Sample:** E2M3720-ICV3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84444.D
Project: BMSMC, Building 5 Area, PR

87	t	Benzo[a]anthracene	1.262	1.133	10.2	106	0.00	14.60
89	t	Chrysene	1.177	1.032	12.3	102	0.00	14.66
90	t	bis(2-Ethylhexyl)phthalat	0.884	0.799	9.6	107	0.00	14.73
91	I	Perylene-d12	1.000	1.000	0.0	98	0.00	16.76
92	t	Di-n-octylphthalate	1.820	1.858	-2.1	111	0.00	15.72
93	t	Benzo[b]fluoranthene	1.338	1.266	5.4	98	-0.01	16.23
94	t	Benzo[k]fluoranthene	1.216	1.262	-3.8	109	-0.01	16.27
95	t	Benzo[a]pyrene	1.104	1.045	5.3	96	0.00	16.68
96	t	Indeno[1,2,3-cd]pyrene	1.311	1.261	3.8	97	0.00	18.52
98	t	Dibenz[a,h]anthracene	1.130	1.084	4.1	96	-0.01	18.55
100	t	Benzo[g,h,i]perylene	1.120	1.067	4.7	96	-0.01	19.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m84437.D M2M3720.M Tue Jun 07 15:29:17 2016

6.7.5

6

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E2M3720-ICV3720
Lab FileID: 2M84446.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e2m3720\2m84446.D          Vial: 15
Acq On    :  7 Jun 2016   3:15 pm                    Operator: ashleyn
Sample    : icv3720-50                               Inst    : MS
Misc      : op94122,e2m3720                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Tue Jun 07 15:05:19 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	108	-0.01	14.61
88 t	3,3'-Dichlorobenzidine	0.481	0.444	7.7	101	0.00	14.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m84437.D M2M3720.M Tue Jun 07 15:51:59 2016

Initial Calibration Verification

Job Number: JC22206 **Sample:** E2M3721-ICV3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M84450.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e2m3721\2m84450.D          Vial: 2
Acq On    :  7 Jun 2016   5:25 pm                    Operator: ashleyn
Sample    : icv3720-50                               Inst    : MS
Misc      : op94122,e2m3721                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Tue Jun 07 16:18:16 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	112	0.00	4.91
2	t	1,4-Dioxane	0.527	0.534	-1.3	120	0.00	2.49
6	t	Indene	2.656	2.529	4.8	113	0.00	5.11
7	t	Cumene	3.897	3.486	10.5	105	0.00	4.29
13	t	Decane	1.564	1.400	10.5	113	0.00	4.76
18	t	Acetophenone	2.169	1.949	10.1	104	-0.01	5.24
24	I	Naphthalene-d8	1.000	1.000	0.0	123	-0.01	6.04
27	t	Quinoline	0.728	0.573	21.3	99	-0.02	6.42
40	t	2,3-Dichloroaniline	0.365	0.265	27.4	92	-0.01	7.18
41	t	Caprolactam	0.178	0.136	23.6	96	-0.04	6.49
45	t	1-Methylnaphthalene	0.644	0.497	22.8	100	0.00	6.95
46	t	Dimethylnaphthalene	0.655	0.503	23.2	97	0.00	7.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	102	-0.01	8.17
		----------	True	Calc.	% Drift		----------	
48	t	Hexachlorocyclopentadiene	50.000	48.154	3.7	80	0.00	7.00
		----------	AvgRF	CCRF	% Dev		----------	
53	t	Biphenyl	1.554	1.426	8.2	98	-0.01	7.40
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	-0.02	10.39
82	t	Octadecane	0.565	0.506	10.4	94	0.00	10.29
91	I	Perylene-d12	1.000	1.000	0.0	85	-0.02	16.75
99	t	7,12-Dimethylbenz(a)anthr	0.587	0.496	15.5	74	-0.02	16.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m84348a.D M2M3720.M Wed Jun 08 09:04:50 2016

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E2M3754-CC3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85108.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E2M3754\2m85108.D          Vial: 2
Acq On    : 28 Jun 2016  10:09 am                     Operator: ashleyn
Sample    : cc3720-25                                 Inst    : MS
Misc      : op94766,e2m3754                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\M2M3720.M (RTE Integrator)
Title        : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update  : Mon Jun 27 16:37:24 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	65	-0.05	4.84
2	t	1,4-Dioxane	0.527	0.512	2.8	67	-0.07	2.40
5	S	2-Fluorophenol	1.416	1.264	10.7	59	-0.04	3.89
6	t	Indene	2.656	2.711	-2.1	70	-0.05	5.04
7	t	Cumene	3.897	3.958	-1.6	68	-0.06	4.22
8	S	Phenol-d5	1.792	1.764	1.6	66	-0.04	4.60
9	t	Phenol	2.212	2.238	-1.2	67	-0.04	4.61
10		Aniline	2.196	2.028	7.7	61	-0.04	4.60
11	t	bis(2-Chloroethyl)ether	1.546	1.586	-2.6	71	-0.05	4.63
12	t	2-Chlorophenol	1.468	1.568	-6.8	73	-0.05	4.69
13	t	Decane	1.564	1.536	1.8	66	-0.05	4.68
14	t	1,3-Dichlorobenzene	1.655	1.641	0.8	68	-0.05	4.79
15	t	1,4-Dichlorobenzene	1.651	1.707	-3.4	69	-0.05	4.85
16	t	Benzyl alcohol	0.990	1.022	-3.2	67	-0.04	4.96
17	t	1,2-Dichlorobenzene	1.555	1.585	-1.9	69	-0.05	4.97
18	t	Acetophenone	2.169	2.273	-4.8	70	-0.05	5.17
19	t	2-Methylphenol	1.443	1.437	0.4	67	-0.05	5.07
20	t	2,2'-oxybis(1-Chloropropa	1.960	1.812	7.6	62	-0.05	5.04
21	t	3&4-Methylphenol	1.556	1.509	3.0	65	-0.04	5.20
22	t	n-Nitroso-di-n-propylamin	1.202	1.145	4.7	65	-0.06	5.16
23	t	Hexachloroethane	0.524	0.572	-9.2	75	-0.06	5.24
24	I	Naphthalene-d8	1.000	1.000	0.0	72	-0.05	5.96
25	S	Nitrobenzene-d5	0.441	0.393	10.9	66	-0.04	5.30
26	t	Nitrobenzene	0.453	0.409	9.7	65	-0.04	5.32
27	t	Quinoline	0.728	0.678	6.9	68	-0.06	6.34
28	t	Isophorone	0.776	0.689	11.2	65	-0.05	5.52
29	t	2-Nitrophenol	0.203	0.209	-3.0	73	-0.05	5.60
30	t	2,4-Dimethylphenol	0.393	0.406	-3.3	77	-0.04	5.65
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	25.000	26.019	-4.1	78	-0.05	5.77
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.440	0.398	9.5	65	-0.05	5.71
33	t	2,4-Dichlorophenol	0.299	0.293	2.0	72	-0.03	5.86
34	t	2,6-Dichlorophenol	0.293	0.289	1.4	73	-0.05	6.06
35		1,3,5-Trichlorobenzene	0.343	0.341	0.6	73	-0.05	5.60
36	t	1,2,4-Trichlorobenzene	0.330	0.307	7.0	68	-0.05	5.90
37		1,2,3-Trichlorobenzene	0.321	0.314	2.2	72	-0.06	6.13
38	t	Naphthalene	1.105	1.049	5.1	71	-0.05	5.98
39	t	4-Chloroaniline	0.427	0.392	8.2	66	-0.05	6.05

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E2M3754-CC3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85108.D
Project: BMSMC, Building 5 Area, PR

40	t	2,3-Dichloroaniline	0.365	0.347	4.9	70	-0.05	7.09
41	t	Caprolactam	0.178	0.158	11.2	64	-0.05	6.44
42	t	Hexachlorobutadiene	0.181	0.177	2.2	74	-0.06	6.08
43	t	4-Chloro-3-methylphenol	0.353	0.341	3.4	71	-0.04	6.61
44	t	2-Methylnaphthalene	0.615	0.592	3.7	71	-0.06	6.73
45	t	1-Methylnaphthalene	0.644	0.629	2.3	72	-0.06	6.85
46	t	Dimethylnaphthalene	0.655	0.632	3.5	70	-0.06	7.50
47	I	Acenaphthene-d10	1.000	1.000	0.0	79	-0.06	8.07
		----------	True	Calc.	% Drift	----------		
48	t	Hexachlorocyclopentadiene	50.000	30.209	39.6#	43	-0.07	6.90
		----------	AvgRF	CCRF	% Dev	----------		
49	t	2,4,6-Trichlorophenol	0.369	0.337	8.7	74	-0.05	7.10
50	t	2,4,5-Trichlorophenol	0.379	0.317	16.4	68	-0.04	7.17
51	S	2-Fluorobiphenyl	1.289	1.101	14.6	70	-0.06	7.17
52	t	2-Chloronaphthalene	1.161	1.016	12.5	71	-0.06	7.33
53	t	Biphenyl	1.554	1.353	12.9	71	-0.06	7.30
54	t	2-Nitroaniline	0.463	0.369	20.3#	63	-0.05	7.50
55	t	Dimethylphthalate	1.316	1.103	16.2	68	-0.06	7.71
56	t	Acenaphthylene	1.940	1.648	15.1	69	-0.06	7.88
57	t	2,6-Dinitrotoluene	0.300	0.247	17.7	66	-0.05	7.82
58	t	3-Nitroaniline	0.346	0.290	16.2	67	-0.04	8.07
59	t	Acenaphthene	1.190	1.023	14.0	71	-0.06	8.11
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	34.290	31.4#	54	-0.08	8.25
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.155	0.122	21.3#	60	-0.07	8.45
62	t	Dibenzofuran	1.642	1.404	14.5	70	-0.06	8.36
63	t	2,4-Dinitrotoluene	0.416	0.344	17.3	67	-0.05	8.40
64		2,3,4,6-Tetrachlorophenol	0.232	0.217	6.5	75	-0.05	8.57
65	t	Diethylphthalate	1.376	1.216	11.6	72	-0.07	8.72
66	t	Fluorene	1.327	1.165	12.2	71	-0.06	8.86
67	t	4-Chlorophenyl-phenylethe	0.617	0.538	12.8	71	-0.06	8.86
68	t	4-Nitroaniline	0.356	0.275	22.8#	62	-0.04	8.96
69	I	Phenanthrene-d10	1.000	1.000	0.0	78	-0.07	10.28
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	19.610	21.6#	61	-0.05	9.01
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.526	0.449	14.6	69	-0.08	9.06
72	t	1,2-Diphenylhydrazine	0.924	0.808	12.6	68	-0.08	9.10
73	S	2,4,6-Tribromophenol	0.111	0.091	18.0	66	-0.07	9.23
74	t	4-Bromophenyl-phenylether	0.217	0.189	12.9	71	-0.08	9.60
75	t	Hexachlorobenzene	0.252	0.215	14.7	69	-0.07	9.68
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	44.680	10.6	73	-0.06	10.03
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.161	0.956	17.7	67	-0.07	10.31
78	t	Anthracene	1.171	0.984	16.0	68	-0.07	10.39
79	t	Carbazole	1.068	0.888	16.9	68	-0.06	10.69
80	t	Di-n-butylphthalate	1.372	1.131	17.6	66	-0.07	11.26
81	t	Fluoranthene	1.179	0.925	21.5#	63	-0.06	12.20

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E2M3754-CC3720
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 2M85108.D
Project: BMSMC, Building 5 Area, PR

82	t	Octadecane	0.565	0.446	21.1#	63	-0.08	10.16
83	I	Chrysene-d12	1.000	1.000	0.0	57	-0.07	14.50
84	t	Pyrene	1.366	1.369	-0.2	61	-0.08	12.55
85	S	Terphenyl-d14	0.915	0.881	3.7	59	-0.09	12.83
86	t	Butylbenzylphthalate	0.677	0.721	-6.5	65	-0.08	13.65
87	t	Benzo[a]anthracene	1.262	1.231	2.5	60	-0.07	14.48
88	t	3,3'-Dichlorobenzidine	0.481	0.451	6.2	55	-0.07	14.47
89	t	Chrysene	1.177	1.107	5.9	57	-0.07	14.54
90	t	bis(2-Ethylhexyl)phthalat	0.884	0.902	-2.0	62	-0.09	14.59
91	I	Perylene-d12	1.000	1.000	0.0	54	-0.08	16.64
92	t	Di-n-octylphthalate	1.820	2.090	-14.8	65	-0.09	15.59
93	t	Benzo[b]fluoranthene	1.338	1.307	2.3	58	-0.08	16.11
94	t	Benzo[k]fluoranthene	1.216	1.184	2.6	56	-0.08	16.14
95	t	Benzo[a]pyrene	1.104	1.109	-0.5	58	-0.08	16.56
96	t	Indeno[1,2,3-cd]pyrene	1.311	1.209	7.8	52	-0.11	18.36
97	t	Dibenz(a,h)acridine	0.980	0.877	10.5	51	-0.11	17.94
98	t	Dibenz[a,h]anthracene	1.130	1.040	8.0	52	-0.13	18.37
99	t	7,12-Dimethylbenz(a)anthr	0.587	0.644	-9.7	63	-0.09	16.07
100	t	Benzo[g,h,i]perylene	1.120	0.990	11.6	50	-0.14	18.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2m84353a.D M2M3720.M Tue Jun 28 14:57:51 2016

6.7.8

6

Initial Calibration Summary

Job Number: JC22206 **Sample:** E3M2942-ICC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62373.D
Project: BMSMC, Building 5 Area, PR

```
                         Response Factor Report  MS3M

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m62379.D   1.0 =3m62373.D   0.5 =3m62374.D   0.2 =3m62371.D
0.1 =3m62372.D   0.05=3m62380.D   0.02=3m62376.D   0.01=3m62377.D
5   =3m62378.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
          0.239 0.244 0.252 0.266 0.236                    0.249        0.247    4.44
3)  2-Fluorophenol
          0.592 0.631 0.661 0.697 0.627 0.607              0.570        0.627    6.79
4)  Phenol-d5
          0.925 0.994 1.062 1.112 0.997 0.952              0.900        0.992    7.57
5)  Phenol
          1.049 1.111 1.181 1.208 1.087 1.045 1.041        1.012        1.092    6.47
6)  bis(2-Chloroethyl)ether
          0.806 0.833 0.879 0.912 0.822 0.772 0.801 0.791 0.795        0.824    5.48
7)  Nitrobenzene-d5
          0.899 0.829 0.864 0.851 0.738 0.769              0.730        0.811    8.17
8)  Nitrobenzene
          0.923 0.956 0.976 0.982 0.867 0.850 0.767 0.733 0.924        0.886   10.12
9)  Naphthalene
          2.334 2.410 2.530 2.600 2.292 2.245 2.340 2.242 2.355        2.372    5.18
10)  Hexachlorobutadiene
          0.340 0.366 0.383 0.404 0.361 0.340 0.350 0.342 0.335        0.358    6.54
11)  2-Methylnaphthalene
          1.199 1.210 1.259 1.395 1.123 1.272              1.182        1.234    7.02
12)  1-Methylnaphthalene
          1.413 1.450 1.533 1.515 1.360 1.375 1.425 1.387 1.428        1.432    4.15
13)  Hexachlorocyclopentadiene
          0.282 0.252 0.243 0.240 0.188                    0.299        0.251   15.26

14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          1.189 1.326 1.408 1.277 1.173 1.182 1.154 1.088              1.225    8.53
16)  Acenaphthylene
          1.601 1.724 1.693 1.560 1.321 1.235 1.226        1.612        1.497   13.61
17)  Acenaphthene
          1.026 1.132 1.164 1.039 0.879 0.836 0.835 0.819 1.015        0.972   13.65
18)  4,6-dinitro-2-methylphenol
          0.085 0.053 0.041 0.031 0.019                    0.117        0.058   63.58
           ---- Quadratic regression ----  Coefficient =  0.9997
             Response Ratio = -0.00894 + 0.05424 *A + 0.01025 *A^2

19)  Fluorene
          1.058 1.239 1.295 1.176 1.020 0.963 0.973        1.036        1.095   11.43
20)  2,4,6-Tribromophenol
          0.138 0.131 0.125 0.106                          0.146        0.129   11.88

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

Initial Calibration Summary

Job Number: JC22206 **Sample:** E3M2942-ICC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62373.D
Project: BMSMC, Building 5 Area, PR

```
22)  Hexachlorobenzene
           0.202 0.229 0.237 0.207 0.182 0.192 0.185 0.194 0.198        0.203    9.29
23)  Pentachlorophenol
           0.089 0.081 0.062 0.057 0.031 0.031             0.102        0.065   42.80
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.00610 + 0.07890 *A + 0.00384 *A^2

24)  Phenanthrene
           1.030 1.172 1.189 1.032 0.879 0.829             1.001        1.019   13.20
25)  Anthracene
           0.997 1.053 1.043 0.902 0.728                   1.003        0.954   12.88
26)  Fluoranthene
           1.111 1.264 1.285 1.174 1.145 1.197             1.096        1.182    6.12
27)  Pyrene
           1.110 1.221 1.180 1.119 0.969 0.865             1.127        1.085   11.48
28)  Terphenyl-d14
           0.622 0.664 0.689 0.627 0.538                   0.474        0.602   13.46
29)  Benzo[a]anthracene
           0.798 0.921 0.871 0.896 0.708 0.431             0.851        0.782   21.77
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = 0.00485 + 0.79013 *A + 0.04339 *A^2

30)  Chrysene
           0.943 1.021 1.073 0.962 0.945 0.849             0.944        0.963    7.26

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.100 1.462 1.311 1.419 1.072                   1.214        1.263   12.87
33)  Benzo[k]fluoranthene
           1.235 1.489 1.546 1.342 1.244                   1.264        1.353    9.89
34)  Benzo[a]pyrene
           1.062 1.378 1.258 1.346 1.279 1.660                          1.330   14.71
35)  Indeno[1,2,3-cd]pyrene
           1.044 1.245 1.148 1.169 0.866                   1.137        1.101   11.98
36)  Dibenz[a,h]anthracene
           0.827 0.995 0.929 0.945 0.686                   0.916        0.883   12.57
37)  Benzo[g,h,i]perylene
           0.937 1.123 1.090 1.069 0.854                   0.999        1.012   10.14
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2942SIM.M        Tue Jun 21 11:55:19 2016   RPT1
```

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2942-ICV2942
Lab FileID: 3M62382.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2942\3m62382.D          Vial: 13
Acq On    : 21 Jun 2016  12:56 am                    Operator: ashleyd
Sample    : icv2942-1.0                              Inst    : MS3M
Misc      : op94419a,e3m2942                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 08:25:24 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	103	0.00	10.89
5	Phenol	1.092	0.934	14.5	87	0.00	6.37
14 I	Fluorene-d10	1.000	1.000	0.0	94	0.00	13.89
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	4.454	10.9	90	-0.02	14.08
21 I	Fluoranthene-d10	1.000	1.000	0.0	92	0.00	18.08
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	4.220	15.6	74	-0.02	15.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62373.D M3M2942SIM.M Tue Jun 21 11:57:09 2016 RPT1

Initial Calibration Verification

Job Number: JC22206 **Sample:** E3M2943-ICV2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62384.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2943\3m62384.D          Vial: 2
Acq On    : 21 Jun 2016   9:26 am                    Operator: linseyk
Sample    : icv2942-1                                Inst    : MS3M
Misc      : op94419a,e3m2943                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 08:25:24 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	126	-0.02	10.87
2	t	1,4-dioxane	0.247	0.260	-5.3	135	0.00	2.51
6	t	bis(2-Chloroethyl)ether	0.824	0.841	-2.1	127	-0.01	6.50
8	t	Nitrobenzene	0.886	0.755	14.8	100	0.00	7.99
9	t	Naphthalene	2.372	2.432	-2.5	127	-0.02	9.36
10	t	Hexachlorobutadiene	0.358	0.331	7.5	114	0.00	9.68
11	t	2-Methylnaphthalene	1.234	1.312	-6.3	137	-0.02	10.74
14	I	Fluorene-d10	1.000	1.000	0.0	118	-0.02	13.88
16	t	Acenaphthylene	1.497	1.716	-14.6	117	-0.02	12.53
17	t	Acenaphthene	0.972	1.133	-16.6	118	-0.02	12.88
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.095	1.198	-9.4	114	0.00	13.93
21	I	Fluoranthene-d10	1.000	1.000	0.0	107	0.00	18.08
22	t	Hexachlorobenzene	0.203	0.239	-17.7	112	-0.02	15.05
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	1.019	1.182	-16.0	108	-0.02	15.84
25	t	Anthracene	0.954	1.078	-13.0	110	-0.02	15.95
26	t	Fluoranthene	1.182	1.246	-5.4	106	-0.02	18.09
27	t	Pyrene	1.085	1.299	-19.7	114	0.00	18.50
		----------	True	Calc.	% Drift	----------		
29	t	Benzo[a]anthracene	1.000	1.297	-29.7	124	0.00	20.58
		----------	AvgRF	CCRF	% Dev	----------		
30	t	Chrysene	0.963	1.035	-7.5	109	-0.02	20.63
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	108	-0.02	22.66
32	t	Benzo[b]fluoranthene	1.263	1.401	-10.9	103	0.00	22.25
33	t	Benzo[k]fluoranthene	1.353	1.395	-3.1	101	0.00	22.28
34	t	Benzo[a]pyrene	1.330	1.400	-5.3	110	0.00	22.70
35	t	Indeno[1,2,3-cd]pyrene	1.101	1.389	-26.2	120	0.00	24.26
36	t	Dibenz[a,h]anthracene	0.883	1.088	-23.2	118	0.00	24.30
37	t	Benzo[g,h,i]perylene	1.012	1.219	-20.5	117	0.00	24.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62373.D M3M2942SIM.M Tue Jun 21 12:01:55 2016 RPT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E3M2954-CC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62582.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2954\3m62582.D          Vial: 2
Acq On    : 28 Jun 2016  11:50 am                    Operator: linseyk
Sample    : cc2942-.5                                Inst    : MS3M
Misc      : op95046a,e3m2954                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 28 15:26:36 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	89	-0.14	10.72
2	t	1,4-dioxane	0.247	0.231	6.5	82	0.00	2.39
3	S	2-Fluorophenol	0.627	0.560	10.7	76	-0.08	4.68
4	S	Phenol-d5	0.992	0.885	10.8	74	-0.06	6.29
5		Phenol	1.092	0.956	12.5	72	-0.05	6.31
6	t	bis(2-Chloroethyl)ether	0.824	0.719	12.7	73	0.00	6.37
7	S	Nitrobenzene-d5	0.811	0.703	13.3	73	-0.15	7.80
8	t	Nitrobenzene	0.886	0.822	7.2	75	-0.14	7.84
9	t	Naphthalene	2.372	2.203	7.1	78	-0.15	9.21
10	t	Hexachlorobutadiene	0.358	0.297	17.0	69	-0.15	9.51
11	t	2-Methylnaphthalene	1.234	1.075	12.9	76	-0.14	10.60
12	t	1-Methylnaphthalene	1.432	1.317	8.0	77	-0.14	10.78
13		Hexachlorocyclopentadiene	0.251	0.226	10.0	83	-0.14	10.95
14	I	Fluorene-d10	1.000	1.000	0.0	96	-0.17	13.72
15	S	2-Fluorobiphenyl	1.225	1.112	9.2	76	-0.16	11.38
16	t	Acenaphthylene	1.497	1.409	5.9	80	-0.17	12.37
17	t	Acenaphthene	0.972	0.914	6.0	76	-0.17	12.73
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	3.277	-31.1#	160	-0.17	13.93
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.095	0.964	12.0	72	-0.17	13.76
20	S	2,4,6-Tribromophenol	0.129	0.129	0.0	99	-0.15	14.27
21	I	Fluoranthene-d10	1.000	1.000	0.0	95	-0.03	17.92
22	t	Hexachlorobenzene	0.203	0.195	3.9	78	-0.07	14.89
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.512	39.5#	60	-0.05	15.33
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	1.019	0.962	5.6	77	-0.06	15.68
25	t	Anthracene	0.954	0.874	8.4	80	-0.06	15.79
26	t	Fluoranthene	1.182	1.053	10.9	78	-0.03	17.96
27	t	Pyrene	1.085	1.024	5.6	83	-0.03	18.34
28	S	Terphenyl-d14	0.602	0.569	5.5	79	0.00	18.73
		----------	True	Calc.	% Drift	----------		
29	t	Benzo[a]anthracene	0.500	0.522	-4.4	95	-0.01	20.43

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E3M2954-CC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62582.D
Project: BMSMC, Building 5 Area, PR

			AvgRF	CCRF	% Dev			
30	t	Chrysene	0.963	0.908	5.7	81	-0.01	20.49
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	111	-0.02	22.53
32	t	Benzo[b]fluoranthene	1.263	1.225	3.0	104	-0.02	22.09
33	t	Benzo[k]fluoranthene	1.353	1.100	18.7	79	-0.06	22.13
34	t	Benzo[a]pyrene	1.330	1.129	15.1	100	-0.04	22.55
35	t	Indeno[1,2,3-cd]pyrene	1.101	1.143	-3.8	110	-0.07	24.07
36	t	Dibenz[a,h]anthracene	0.883	0.915	-3.6	109	-0.07	24.11
37	t	Benzo[g,h,i]perylene	1.012	0.993	1.9	101	-0.08	24.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62374.D M3M2942SIM.M Tue Jun 28 15:27:26 2016 RPT1

Initial Calibration Summary

Job Number: JC22206 **Sample:** E4M2974-ICC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66184.D
Project: BMSMC, Building 5 Area, PR

```
                    Response Factor Report  GCMS4M

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Calibration Files
0.05=4m66185.D   .2  =4m66182.D   2.5 =4m66189.D   .02 =4m66186.D
.1  =4m66181.D   1   =4m66184.D   .01 =4m66187.D   .5  =4m66183.D
5   =4m66188.D       =                =                =

Compound
            0.05  .2    2.5   .02   .1    1     .01   .5    5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  2-Fluorophenol
          0.655 0.695 0.646 0.586 0.607 0.642       0.670 0.598        0.637    5.91
3)  Phenol-d5
          1.018 1.114 0.989 0.929 0.956 1.031       1.068 0.937        1.005    6.50
4)  Phenol
          1.140 1.198 1.089 0.994 1.027 1.093       1.127 1.034        1.088    6.19
5)  bis(2-Chloroethyl)ether
          0.684 0.859 0.826 0.599 0.773 0.805       0.817 0.778        0.768   11.11
6)  Nitrobenzene-d5
          0.918 0.983 0.873 0.856 0.836 0.895       0.923 0.868        0.894    5.23
7)  Naphthalene
          2.780 3.002 2.831 2.771 2.541 2.828 2.788 2.883 2.701        2.792    4.51
8)  Hexachlorobutadiene
          0.495 0.514 0.471 0.488 0.435 0.471       0.484 0.451        0.476    5.27
9)  2-Methylnaphthalene
                1.591 1.232       1.385 1.222       1.319 1.189        1.323   11.31
10)  Hexachlorocyclopentadiene
                0.026 0.151       0.011 0.083       0.049 0.198        0.086   85.53
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = -0.01112 + 0.10494 *A + 0.03937 *A^2

11)  2-Fluorobiphenyl
          1.656 1.805 1.430 1.586 1.462 1.618       1.713              1.610    8.24

12) I   Fluorene-d10          ----------------ISTD---------------------
13)  Acenaphthylene
          1.001 1.108 1.086 1.038 0.966 1.182 0.988 1.196 0.979        1.060    8.22
14)  Acenaphthene
          0.641 0.697 0.677 0.634 0.584 0.748 0.612 0.745 0.583        0.658    9.56
15)  Dibenzofuran
                1.321 0.969       0.963 1.106       1.163 0.898        1.070   14.72
16)  Fluorene
          1.172 1.240 1.185 1.114 1.050 1.335 1.083 1.359 1.104        1.183    9.28
17)  2,4,6-Tribromophenol
          0.165 0.192 0.180       0.162 0.208       0.211              0.186   11.30
18)  Hexachlorobenzene
          0.381 0.407 0.362 0.493 0.349 0.417 0.380 0.435 0.331        0.395   12.50
19)  Pentachlorophenol
          0.125 0.141 0.163       0.117 0.167       0.147 0.159        0.146   13.33
20)  Phenanthrene
          1.533 1.691 1.598 1.528 1.445 1.792 1.546 1.832 1.419        1.598    9.08
21)  Anthracene
          1.461 1.485 1.490 1.395 1.357 1.619 1.442 1.633 1.365        1.472    6.78
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** E4M2974-ICC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66184.D
Project: BMSMC, Building 5 Area, PR

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
           1.141 1.180 1.088       1.122 1.273       1.306 1.072        1.169    7.71
24)  Pyrene
           1.021 1.132 1.094       1.103 1.242       1.276 1.104        1.139    7.86
25)  Terphenyl-d14
           0.536 0.607 0.547 0.531 0.575 0.635       0.656 0.432        0.565   12.51
26)  Benzo[a]anthracene
           0.890 1.003 0.879       1.050 1.051       1.102 0.941        0.988    8.74
27)  Chrysene
           1.003 1.032 0.911       1.127 1.065       1.122 0.931        1.027    8.31

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
                 1.344 1.310       1.310 1.485       1.483              1.386    6.49
30)  Benzo[k]fluoranthene
           1.346 1.356 1.245       1.385 1.428       1.484 1.160        1.343    8.16
31)  Benzo[a]pyrene
           1.201 1.292 1.173       1.355 1.362       1.295 1.108        1.255    7.68
32)  Indeno[1,2,3-cd]pyrene
           1.382 1.507 1.406       1.385 1.605       1.620 1.361        1.467    7.50
33)  Dibenz[a,h]anthracene
           1.149 1.240 1.168       1.162 1.333       1.347 1.119        1.217    7.55
34)  Benzo[g,h,i]perylene
           1.225 1.301 1.232       1.217 1.386       1.402 1.181        1.278    6.81

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
                 0.381 0.259       0.429 0.268       0.310 0.257        0.317   22.78
             ---- Quadratic regression ----  Coefficient =  0.9999
               Response Ratio = 0.00606 + 0.24609 *A + 0.00500 *A^2

37)  1-Methylnaphthalene
           1.212 1.203 1.203 1.258 1.101 1.126 1.405 1.167 1.109        1.198    7.83

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
           0.082 0.107 0.196       0.066 0.171       0.125 0.159        0.129   36.99
            ---- Quadratic regression ----  Coefficient =  0.9967
              Response Ratio = -0.03186 + 0.23063 *A + -0.01051 *A^2

40)  1,2-Diphenylhydrazine
                 1.121 1.182       0.863 1.265       1.239 0.962        1.105   14.50
41)  n-nitrosodiphenylamine
                 0.774 0.860       0.640 0.901       0.858 0.674        0.785   13.70
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M2974SIM.M        Tue Jun 21 08:26:11 2016   MANAGER
```

Initial Calibration Verification

Job Number: JC22206 **Sample:** E4M2974-ICV2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66190.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2974\4m66190.D          Vial: 11
Acq On    : 21 Jun 2016   3:30 am                    Operator: ashleyd
Sample    : icv2974-1.0                              Inst    : GCMS4M
Misc      : op94799a,e4m2974                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	124	0.00	9.79
5	t	bis(2-Chloroethyl)ether	0.768	0.741	3.5	114	0.00	5.61
7	t	Naphthalene	2.792	2.651	5.1	116	0.00	8.31
8	t	Hexachlorobutadiene	0.476	0.453	4.8	119	-0.02	8.58
9	t	2-Methylnaphthalene	1.323	1.060	19.9	108	0.00	9.67
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	1.812	9.4	88	0.00	10.00
		----------	AvgRF	CCRF	% Dev	----------		
12	I	Fluorene-d10	1.000	1.000	0.0	132	0.00	12.76
13	t	Acenaphthylene	1.060	0.997	5.9	111	0.00	11.41
14	t	Acenaphthene	0.658	0.645	2.0	114	0.00	11.76
15	t	Dibenzofuran	1.070	0.934	12.7	112	0.00	12.14
16	t	Fluorene	1.183	1.079	8.8	107	0.00	12.81
18	t	Hexachlorobenzene	0.395	0.345	12.7	109	0.00	13.91
20	t	Phenanthrene	1.598	1.479	7.4	109	0.00	14.72
21	t	Anthracene	1.472	1.264	14.1	103	-0.02	14.81
22	I	Fluoranthene-d10	1.000	1.000	0.0	131	0.00	16.94
23	t	Fluoranthene	1.169	0.997	14.7	103	0.00	16.98
24	t	Pyrene	1.139	0.991	13.0	105	0.00	17.37
26	t	Benzo[a]anthracene	0.988	0.800	19.0	100	0.00	19.46
27	t	Chrysene	1.027	0.815	20.6	101	0.00	19.52
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	115	0.00	21.53
29	t	Benzo[b]fluoranthene	1.386	1.185	14.5	91	0.00	21.12
30	t	Benzo[k]fluoranthene	1.343	1.205	10.3	97	0.00	21.16
31	t	Benzo[a]pyrene	1.255	1.149	8.4	97	0.00	21.57
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.354	7.7	97	0.00	23.12
33	t	Dibenz[a,h]anthracene	1.217	1.098	9.8	94	0.00	23.16
34	t	Benzo[g,h,i]perylene	1.278	1.155	9.6	95	0.00	23.52
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	124	0.00	9.79
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	0.821	17.9	105	0.00	2.30
38	I	Fluorene-d10a	1.000	1.000	0.0	132	0.00	12.76
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	0.966	12.6	101	0.00	13.17

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4M2974-ICV2974
Lab FileID: 4M66190.D

```
41 t   n-nitrosodiphenylamine      0.785   0.691     12.0  101   0.00   13.12
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    4m66184.D  M4M2974SIM.M       Tue Jun 21 14:09:39 2016   MANAGER
```

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4M2974-ICV2974
Lab FileID: 4M66191.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2974\4m66191.D          Vial: 12
Acq On    : 21 Jun 2016   4:00 am                    Operator: ashleyd
Sample    : icv2974-1.0                              Inst    : GCMS4M
Misc      : op94799a,e4m2974                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	93	0.00	9.79
4	t	Phenol	1.088	1.118	-2.8	95	0.00	5.51
12	I	Fluorene-d10	1.000	1.000	0.0	89	0.00	12.76
19	t	Pentachlorophenol	0.146	0.165	-13.0	87	0.00	14.34
38	I	Fluorene-d10a	1.000	1.000	0.0	89	0.00	12.76
		----------	True	Calc.	% Drift		----------	
39	t	4,6-dinitro-2-methylpheno	5.000	4.844	3.1	96	0.00	13.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66184.D M4M2974SIM.M Tue Jun 21 08:27:37 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2978-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66259.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2978\4m66259.D          Vial: 2
Acq On    : 22 Jun 2016   2:51 pm                    Operator: linseyk
Sample    : cc2974-.5                                Inst    : GCMS4M
Misc      : op94970a,e4m2978                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	123	-0.02	9.76
2	S	2-Fluorophenol	0.637	0.628	1.4	115	-0.01	4.08
3	S	Phenol-d5	1.005	1.001	0.4	115	-0.01	5.47
4	t	Phenol	1.088	1.042	4.2	113	-0.01	5.50
5	t	bis(2-Chloroethyl)ether	0.768	0.758	1.3	114	-0.03	5.58
6	S	Nitrobenzene-d5	0.894	0.852	4.7	113	-0.02	6.95
7	t	Naphthalene	2.792	2.753	1.4	117	-0.02	8.30
8	t	Hexachlorobutadiene	0.476	0.480	-0.8	122	-0.03	8.56
9	t	2-Methylnaphthalene	1.323	1.297	2.0	121	-0.02	9.64
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	1.000	1.140	-14.0	220	-0.02	9.98
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.719	-6.8	123	-0.02	10.41
12	I	Fluorene-d10	1.000	1.000	0.0	109	-0.02	12.74
13	t	Acenaphthylene	1.060	0.979	7.6	89	0.00	11.41
14	t	Acenaphthene	0.658	0.909	-38.1#	133	-0.02	11.74
15	t	Dibenzofuran	1.070	1.266	-18.3	119	-0.02	12.12
16	t	Fluorene	1.183	1.515	-28.1#	121	-0.02	12.79
17	S	2,4,6-Tribromophenol	0.186	0.247	-32.8#	127	-0.02	13.29
18	t	Hexachlorobenzene	0.395	0.474	-20.0	119	-0.02	13.89
19	t	Pentachlorophenol	0.146	0.188	-28.8#	139	-0.02	14.32
20	t	Phenanthrene	1.598	2.055	-28.6#	122	-0.02	14.70
21	t	Anthracene	1.472	2.020	-37.2#	135	-0.04	14.79
22	I	Fluoranthene-d10	1.000	1.000	0.0	135	-0.02	16.92
23	t	Fluoranthene	1.169	1.170	-0.1	121	-0.02	16.96
24	t	Pyrene	1.139	1.222	-7.3	129	-0.04	17.33
25	S	Terphenyl-d14	0.565	0.616	-9.0	126	-0.04	17.71
26	t	Benzo[a]anthracene	0.988	1.062	-7.5	130	0.00	19.42
27	t	Chrysene	1.027	1.057	-2.9	127	0.00	19.50
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	128	0.00	21.52
29	t	Benzo[b]fluoranthene	1.386	1.674	-20.8#	145	0.00	21.09
30	t	Benzo[k]fluoranthene	1.343	1.166	13.2	101	0.00	21.13
31	t	Benzo[a]pyrene	1.255	1.369	-9.1	136	-0.07	21.55
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.640	-11.8	130	-0.08	23.10
33	t	Dibenz[a,h]anthracene	1.217	1.372	-12.7	131	-0.08	23.13
34	t	Benzo[g,h,i]perylene	1.278	1.403	-9.8	128	-0.08	23.50

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2978-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66259.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	123	-0.02	9.76
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	0.500	0.498	0.4	117	-0.02	2.27
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.158	3.3	122	-0.02	9.81
38	I	Fluorene-d10a	1.000	1.000	0.0	109	-0.02	12.74
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	2.141	14.4	123	-0.02	12.98
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.361	-23.2#	120	-0.02	13.15
41	t	n-nitrosodiphenylamine	0.785	1.046	-33.2#	133	-0.02	13.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66183.D M4M2974SIM.M Thu Jun 23 09:11:48 2016 MANAGER

6.7.16

6

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2978-ECC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66280.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2978\4m66280.D          Vial: 23
Acq On    : 23 Jun 2016   1:44 am                    Operator: linseyk
Sample    : ecc2974-.5                               Inst    : GCMS4M
Misc      : op94835a,e4m2978,990                     Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	96	-0.02	9.76
2	S	2-Fluorophenol	0.637	0.734	-15.2	105	-0.02	4.07
3	S	Phenol-d5	1.005	1.175	-16.9	106	-0.01	5.47
4	t	Phenol	1.088	1.251	-15.0	107	-0.03	5.48
5	t	bis(2-Chloroethyl)ether	0.768	0.918	-19.5	108	-0.03	5.58
6	S	Nitrobenzene-d5	0.894	1.040	-16.3	108	-0.03	6.94
7	t	Naphthalene	2.792	3.187	-14.1	106	-0.02	8.30
8	t	Hexachlorobutadiene	0.476	0.564	-18.5	112	-0.03	8.56
9	t	2-Methylnaphthalene	1.323	1.419	-7.3	103	-0.02	9.64
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	1.000	0.973	2.7	131	-0.05	9.95
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.973	-22.5	111	-0.02	10.41
12	I	Fluorene-d10	1.000	1.000	0.0	85	-0.02	12.74
13	t	Acenaphthylene	1.060	1.098	-3.6	78	-0.02	11.39
14	t	Acenaphthene	0.658	1.057	-60.6#	121	-0.02	11.74
15	t	Dibenzofuran	1.070	1.360	-27.1	100	-0.02	12.12
16	t	Fluorene	1.183	1.555	-31.4	97	-0.02	12.79
17	S	2,4,6-Tribromophenol	0.186	0.251	-34.9	101	-0.02	13.29
18	t	Hexachlorobenzene	0.395	0.546	-38.2	107	-0.04	13.87
19	t	Pentachlorophenol	0.146	0.150	-2.7	87	-0.02	14.32
20	t	Phenanthrene	1.598	2.285	-43.0	106	-0.02	14.70
21	t	Anthracene	1.472	2.243	-52.4#	117	-0.04	14.79
22	I	Fluoranthene-d10	1.000	1.000	0.0	112	-0.02	16.92
23	t	Fluoranthene	1.169	1.211	-3.6	104	-0.04	16.94
24	t	Pyrene	1.139	1.248	-9.6	109	-0.04	17.33
25	S	Terphenyl-d14	0.565	0.659	-16.6	112	-0.04	17.71
26	t	Benzo[a]anthracene	0.988	1.016	-2.8	103	0.00	19.42
27	t	Chrysene	1.027	1.039	-1.2	103	-0.02	19.48
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	105	0.00	21.52
29	t	Benzo[b]fluoranthene	1.386	1.424	-2.7	101	0.00	21.09
30	t	Benzo[k]fluoranthene	1.343	1.453	-8.2	103	0.00	21.13
31	t	Benzo[a]pyrene	1.255	1.292	-2.9	105	-0.07	21.55
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.627	-10.9	105	-0.09	23.09
33	t	Dibenz[a,h]anthracene	1.217	1.358	-11.6	106	-0.08	23.13
34	t	Benzo[g,h,i]perylene	1.278	1.438	-12.5	108	-0.09	23.49

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2978-ECC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66280.D
Project: BMSMC, Building 5 Area, PR

35 I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	96	-0.02	9.76
	----------	True	Calc.	% Drift	----------		
36 t	1,4-Dioxane	0.500	0.693	-38.6	121	-0.02	2.27
	----------	AvgRF	CCRF	% Dev	----------		
37 t	1-Methylnaphthalene	1.198	1.393	-16.3	115	-0.02	9.81
38 I	Fluorene-d10a	1.000	1.000	0.0	85	-0.02	12.74
	----------	True	Calc.	% Drift	----------		
39 t	4,6-dinitro-2-methylpheno	2.500	2.337	6.5	108	-0.02	12.98
	----------	AvgRF	CCRF	% Dev	----------		
40 t	1,2-Diphenylhydrazine	1.105	1.514	-37.0	104	-0.02	13.15
41 t	n-nitrosodiphenylamine	0.785	1.150	-46.5	114	-0.02	13.10

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66183.D M4M2974SIM.M Thu Jun 23 09:11:51 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2984-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66379.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2984\4m66379.D          Vial: 2
Acq On    : 27 Jun 2016  10:57 am                    Operator: linseyk
Sample    : cc2974-.5                                Inst    : GCMS4M
Misc      : op94823a,e4m2984                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	105	-0.07	9.71
2	S	2-Fluorophenol	0.637	0.644	-1.1	101	-0.02	4.07
3	S	Phenol-d5	1.005	1.026	-2.1	101	0.00	5.48
4	t	Phenol	1.088	1.128	-3.7	105	-0.01	5.50
5	t	bis(2-Chloroethyl)ether	0.768	0.785	-2.2	101	-0.06	5.55
6	S	Nitrobenzene-d5	0.894	0.931	-4.1	106	-0.06	6.91
7	t	Naphthalene	2.792	2.861	-2.5	104	-0.06	8.25
8	t	Hexachlorobutadiene	0.476	0.495	-4.0	107	-0.08	8.52
9	t	2-Methylnaphthalene	1.323	1.365	-3.2	108	-0.07	9.60
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	1.000	0.946	5.4	136	-0.07	9.93
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.587	1.4	97	-0.07	10.36
12	I	Fluorene-d10	1.000	1.000	0.0	70	-0.07	12.70
13	t	Acenaphthylene	1.060	1.623	-53.1#	95	-0.05	11.36
14	t	Acenaphthene	0.658	1.225	-86.2#	115	-0.07	11.70
15	t	Dibenzofuran	1.070	1.560	-45.8#	94	-0.07	12.07
16	t	Fluorene	1.183	1.837	-55.3#	94	-0.07	12.74
17	S	2,4,6-Tribromophenol	0.186	0.270	-45.2#	89	-0.07	13.24
18	t	Hexachlorobenzene	0.395	0.712	-80.3#	114	-0.08	13.83
19	t	Pentachlorophenol	0.146	0.250	-71.2#	119	-0.06	14.28
20	t	Phenanthrene	1.598	2.689	-68.3#	103	-0.08	14.64
21	t	Anthracene	1.472	2.398	-62.9#	103	-0.08	14.76
22	I	Fluoranthene-d10	1.000	1.000	0.0	106	-0.06	16.88
23	t	Fluoranthene	1.169	1.232	-5.4	100	-0.08	16.90
24	t	Pyrene	1.139	1.298	-14.0	108	-0.08	17.30
25	S	Terphenyl-d14	0.565	0.699	-23.7#	113	-0.08	17.67
26	t	Benzo[a]anthracene	0.988	1.197	-21.2#	115	-0.04	19.39
27	t	Chrysene	1.027	1.127	-9.7	106	-0.06	19.44
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	104	-0.04	21.48
29	t	Benzo[b]fluoranthene	1.386	1.750	-26.3#	123	-0.04	21.05
30	t	Benzo[k]fluoranthene	1.343	1.206	10.2	85	-0.04	21.09
31	t	Benzo[a]pyrene	1.255	1.333	-6.2	107	-0.11	21.51
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.598	-8.9	103	-0.13	23.05
33	t	Dibenz[a,h]anthracene	1.217	1.344	-10.4	104	-0.13	23.08
34	t	Benzo[g,h,i]perylene	1.278	1.384	-8.3	103	-0.15	23.43

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2984-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66379.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	105	-0.07	9.71
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	0.500	0.459	8.2	93	-0.04	2.25
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.120	6.5	100	-0.05	9.79
38	I	Fluorene-d10a	1.000	1.000	0.0	70	-0.07	12.70
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	2.823	-12.9	112	-0.05	12.96
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.752	-58.6#	99	-0.07	13.10
41	t	n-nitrosodiphenylamine	0.785	1.082	-37.8#	88	-0.02	13.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66183.D M4M2974SIM.M Mon Jun 27 17:33:21 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2986-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66406.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2986\4m66406.D          Vial: 2
Acq On    : 28 Jun 2016   8:51 am                    Operator: linseyk
Sample    : cc2974-.5                                Inst    : GCMS4M
Misc      : op94823a,e4m2986                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	108	-0.12	9.67
2	S	2-Fluorophenol	0.637	0.517	18.8	84	-0.06	4.03
3	S	Phenol-d5	1.005	0.815	18.9	83	-0.06	5.43
4	t	Phenol	1.088	0.868	20.2#	84	-0.06	5.46
5	t	bis(2-Chloroethyl)ether	0.768	0.636	17.2	84	-0.10	5.51
6	S	Nitrobenzene-d5	0.894	0.690	22.8#	81	-0.11	6.86
7	t	Naphthalene	2.792	2.237	19.9	84	-0.11	8.21
8	t	Hexachlorobutadiene	0.476	0.390	18.1	87	-0.12	8.47
9	t	2-Methylnaphthalene	1.323	1.195	9.7	98	-0.12	9.55
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	1.000	1.024	-2.4	162	-0.12	9.88
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.024	36.4#	65	-0.12	10.31
12	I	Fluorene-d10	1.000	1.000	0.0	72	-0.11	12.65
13	t	Acenaphthylene	1.060	1.478	-39.4#	89	-0.10	11.31
14	t	Acenaphthene	0.658	0.966	-46.8#	93	-0.11	11.65
15	t	Dibenzofuran	1.070	1.304	-21.9#	81	-0.11	12.03
16	t	Fluorene	1.183	1.184	-0.1	63	-0.12	12.70
17	S	2,4,6-Tribromophenol	0.186	0.217	-16.7	74	-0.12	13.19
18	t	Hexachlorobenzene	0.395	0.507	-28.4#	84	-0.11	13.79
19	t	Pentachlorophenol	0.146	0.182	-24.7#	89	-0.09	14.25
20	t	Phenanthrene	1.598	2.175	-36.1#	85	-0.11	14.60
21	t	Anthracene	1.472	1.911	-29.8#	84	-0.13	14.70
22	I	Fluoranthene-d10	1.000	1.000	0.0	104	-0.11	16.83
23	t	Fluoranthene	1.169	1.060	9.3	84	-0.11	16.86
24	t	Pyrene	1.139	1.066	6.4	87	-0.11	17.26
25	S	Terphenyl-d14	0.565	0.612	-8.3	97	-0.11	17.64
26	t	Benzo[a]anthracene	0.988	0.906	8.3	85	-0.08	19.35
27	t	Chrysene	1.027	1.021	0.6	94	-0.19	19.41
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	103	-0.08	21.44
29	t	Benzo[b]fluoranthene	1.386	1.227	11.5	85	-0.08	21.01
30	t	Benzo[k]fluoranthene	1.343	1.216	9.5	84	-0.08	21.05
31	t	Benzo[a]pyrene	1.255	1.055	15.9	84	-0.15	21.46
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.379	6.0	88	-0.19	22.99
33	t	Dibenz[a,h]anthracene	1.217	1.148	5.7	88	-0.19	23.02
34	t	Benzo[g,h,i]perylene	1.278	1.201	6.0	88	-0.20	23.38

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2986-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66406.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	108	-0.12	9.67
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	0.500	0.584	-16.8	118	0.00	2.23
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.097	8.4	102	-0.10	9.74
38	I	Fluorene-d10a	1.000	1.000	0.0	72	-0.11	12.65
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	2.323	7.1	90	-0.10	12.91
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.171	-6.0	68	-0.12	13.05
41	t	n-nitrosodiphenylamine	0.785	0.855	-8.9	72	-0.05	13.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66183.D M4M2974SIM.M Tue Jun 28 13:29:14 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2988-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66455.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2988\4m66455.D          Vial: 2
Acq On    : 29 Jun 2016   8:38 am                    Operator: linseyk
Sample    : cc2974-.5                                Inst    : GCMS4M
Misc      : op95138a,e4m2988                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	101	-0.12	9.67
2	S	2-Fluorophenol	0.637	0.593	6.9	90	-0.07	4.02
3	S	Phenol-d5	1.005	0.953	5.2	90	-0.07	5.41
4	t	Phenol	1.088	1.022	6.1	92	-0.07	5.44
5	t	bis(2-Chloroethyl)ether	0.768	0.737	4.0	91	-0.10	5.51
6	S	Nitrobenzene-d5	0.894	0.885	1.0	97	-0.11	6.86
7	t	Naphthalene	2.792	2.575	7.8	90	-0.11	8.21
8	t	Hexachlorobutadiene	0.476	0.449	5.7	94	-0.12	8.47
9	t	2-Methylnaphthalene	1.323	1.232	6.9	94	-0.12	9.55
		----------	True	Calc.	% Drift		----------	
10	t	Hexachlorocyclopentadiene	1.000	0.951	4.9	132	-0.12	9.88
		----------	AvgRF	CCRF	% Dev		----------	
11	S	2-Fluorobiphenyl	1.610	1.549	3.8	91	-0.12	10.31
12	I	Fluorene-d10	1.000	1.000	0.0	64	-0.13	12.63
13	t	Acenaphthylene	1.060	1.477	-39.3#	79	-0.12	11.29
14	t	Acenaphthene	0.658	1.091	-65.8#	94	-0.11	11.65
15	t	Dibenzofuran	1.070	1.669	-56.0#	92	-0.13	12.01
16	t	Fluorene	1.183	1.284	-8.5	61	-0.12	12.70
17	S	2,4,6-Tribromophenol	0.186	0.286	-53.8#	87	-0.12	13.19
18	t	Hexachlorobenzene	0.395	0.602	-52.4#	89	-0.13	13.78
19	t	Pentachlorophenol	0.146	0.186	-27.4#	81	-0.11	14.23
20	t	Phenanthrene	1.598	2.502	-56.6#	88	-0.13	14.59
21	t	Anthracene	1.472	2.287	-55.4#	90	-0.13	14.70
22	I	Fluoranthene-d10	1.000	1.000	0.0	110	-0.11	16.83
23	t	Fluoranthene	1.169	0.975	16.6	82	-0.13	16.85
24	t	Pyrene	1.139	1.019	10.5	88	-0.13	17.24
25	S	Terphenyl-d14	0.565	0.540	4.4	91	-0.13	17.62
26	t	Benzo[a]anthracene	0.988	0.792	19.8	79	-0.09	19.33
27	t	Chrysene	1.027	0.816	20.5#	80	-0.21	19.39
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	99	-0.10	21.42
29	t	Benzo[b]fluoranthene	1.386	1.309	5.6	88	-0.10	21.00
30	t	Benzo[k]fluoranthene	1.343	1.053	21.6#	70	-0.10	21.04
31	t	Benzo[a]pyrene	1.255	1.097	12.6	84	-0.17	21.45
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.329	9.4	81	-0.20	22.98
33	t	Dibenz[a,h]anthracene	1.217	1.113	8.5	82	-0.19	23.02
34	t	Benzo[g,h,i]perylene	1.278	1.197	6.3	85	-0.21	23.36

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2988-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66455.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	101	-0.12	9.67
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	0.500	0.418	16.4	83	-0.01	2.22
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.041	13.1	90	-0.12	9.71
38	I	Fluorene-d10a	1.000	1.000	0.0	64	-0.13	12.63
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	2.171	13.2	74	-0.10	12.91
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.602	-45.0#	83	-0.12	13.05
41	t	n-nitrosodiphenylamine	0.785	1.141	-45.4#	85	-0.07	13.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66183.D M4M2974SIM.M Wed Jun 29 11:18:06 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2989-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66460.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2989\4m66460.D          Vial: 2
Acq On    : 29 Jun 2016  11:29 am                    Operator: linseyk
Sample    : cc2974-1                                 Inst    : GCMS4M
Misc      : op94835a,e4m2989                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	88	-0.12	9.67
2	S	2-Fluorophenol	0.637	0.647	-1.6	89	-0.08	4.01
3	S	Phenol-d5	1.005	1.029	-2.4	88	-0.07	5.41
4	t	Phenol	1.088	1.094	-0.6	88	-0.08	5.43
5	t	bis(2-Chloroethyl)ether	0.768	0.746	2.9	82	-0.05	5.50
6	S	Nitrobenzene-d5	0.894	0.909	-1.7	89	-0.11	6.86
7	t	Naphthalene	2.792	2.807	-0.5	87	-0.12	8.19
8	t	Hexachlorobutadiene	0.476	0.488	-2.5	91	-0.12	8.47
9	t	2-Methylnaphthalene	1.323	1.170	11.6	84	-0.12	9.55
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	2.548	-27.4#	152	-0.14	9.86
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.740	-8.1	95	-0.12	10.31
12	I	Fluorene-d10	1.000	1.000	0.0	70	-0.13	12.63
13	t	Acenaphthylene	1.060	1.632	-54.0#	97	-0.12	11.29
14	t	Acenaphthene	0.658	0.894	-35.9#	84	-0.11	11.65
15	t	Dibenzofuran	1.070	1.542	-44.1#	98	-0.13	12.01
16	t	Fluorene	1.183	1.035	12.5	55	-0.12	12.70
17	S	2,4,6-Tribromophenol	0.186	0.227	-22.0#	77	-0.12	13.19
18	t	Hexachlorobenzene	0.395	0.533	-34.9#	90	-0.13	13.78
19	t	Pentachlorophenol	0.146	0.206	-41.1#	87	-0.11	14.23
20	t	Phenanthrene	1.598	2.299	-43.9#	90	-0.13	14.59
21	t	Anthracene	1.472	2.036	-38.3#	88	-0.13	14.70
22	I	Fluoranthene-d10	1.000	1.000	0.0	108	-0.11	16.83
23	t	Fluoranthene	1.169	1.027	12.1	87	-0.13	16.85
24	t	Pyrene	1.139	1.087	4.6	95	-0.13	17.24
25	S	Terphenyl-d14	0.565	0.538	4.8	92	-0.13	17.62
26	t	Benzo[a]anthracene	0.988	0.899	9.0	92	-0.09	19.33
27	t	Chrysene	1.027	0.888	13.5	90	-0.21	19.39
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	103	-0.10	21.42
29	t	Benzo[b]fluoranthene	1.386	1.219	12.0	85	-0.10	21.00
30	t	Benzo[k]fluoranthene	1.343	1.199	10.7	87	-0.10	21.04
31	t	Benzo[a]pyrene	1.255	1.041	17.1	79	-0.17	21.45
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.318	10.2	85	-0.20	22.98
33	t	Dibenz[a,h]anthracene	1.217	1.066	12.4	82	-0.20	23.01
34	t	Benzo[g,h,i]perylene	1.278	1.154	9.7	86	-0.21	23.36

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2989-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66460.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	88	-0.12	9.67
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	0.865	13.5	78	-0.01	2.22
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.334	-11.4	104	-0.12	9.71
38	I	Fluorene-d10a	1.000	1.000	0.0	70	-0.13	12.63
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	5.177	-3.5	82	-0.12	12.88
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.417	-28.2#	79	-0.12	13.05
41	t	n-nitrosodiphenylamine	0.785	1.164	-48.3#	91	-0.07	13.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66184.D M4M2974SIM.M Wed Jun 29 15:47:24 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2990-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66486.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2990\4m66486.D          Vial: 2
Acq On    : 30 Jun 2016   8:53 am                    Operator: linseyk
Sample    : cc2974-.5                                Inst    : GCMS4M
Misc      : op95121a,e4m2990                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	155	0.02	9.81
2	S	2-Fluorophenol	0.637	0.513	19.5	119	0.07	4.16
3	S	Phenol-d5	1.005	0.821	18.3	119	0.10	5.58
4	t	Phenol	1.088	0.885	18.7	122	0.10	5.61
5	t	bis(2-Chloroethyl)ether	0.768	0.558	27.3#	106	0.03	5.63
6	S	Nitrobenzene-d5	0.894	0.731	18.2	123	0.05	7.01
7	t	Naphthalene	2.792	2.237	19.9	121	0.03	8.35
8	t	Hexachlorobutadiene	0.476	0.400	16.0	129	0.02	8.61
9	t	2-Methylnaphthalene	1.323	1.205	8.9	142	0.02	9.69
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	1.000	1.193	-19.3	300	0.02	10.02
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.151	28.5#	104	0.02	10.45
12	I	Fluorene-d10	1.000	1.000	0.0	165	0.02	12.79
13	t	Acenaphthylene	1.060	0.998	5.8	138	0.04	11.45
14	t	Acenaphthene	0.658	0.582	11.6	129	0.04	11.81
15	t	Dibenzofuran	1.070	0.897	16.2	128	0.02	12.16
16	t	Fluorene	1.183	0.974	17.7	119	0.02	12.84
17	S	2,4,6-Tribromophenol	0.186	0.151	18.8	119	0.05	13.36
18	t	Hexachlorobenzene	0.395	0.325	17.7	124	0.03	13.94
19	t	Pentachlorophenol	0.146	0.080	45.2#	89	0.07	14.41
20	t	Phenanthrene	1.598	1.378	13.8	124	0.03	14.75
21	t	Anthracene	1.472	1.302	11.5	132	0.03	14.86
22	I	Fluoranthene-d10	1.000	1.000	0.0	160	0.03	16.97
23	t	Fluoranthene	1.169	1.043	10.8	128	0.03	17.01
24	t	Pyrene	1.139	1.072	5.9	134	0.03	17.40
25	S	Terphenyl-d14	0.565	0.544	3.7	132	0.01	17.76
26	t	Benzo[a]anthracene	0.988	0.943	4.6	137	0.07	19.49
27	t	Chrysene	1.027	0.950	7.5	135	-0.05	19.55
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	158	0.05	21.57
29	t	Benzo[b]fluoranthene	1.386	1.305	5.8	139	0.06	21.16
30	t	Benzo[k]fluoranthene	1.343	1.144	14.8	122	0.05	21.18
31	t	Benzo[a]pyrene	1.255	1.112	11.4	135	0.00	21.61
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.411	3.8	138	-0.01	23.17
33	t	Dibenz[a,h]anthracene	1.217	1.188	2.4	139	-0.01	23.19
34	t	Benzo[g,h,i]perylene	1.278	1.221	4.5	138	-0.01	23.57

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2990-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66486.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	155	0.02	9.81
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	0.500	0.445	11.0	135	0.00	2.32
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.082	9.7	144	0.05	9.88
38	I	Fluorene-d10a	1.000	1.000	0.0	165	0.02	12.79
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	1.664	33.4#	131	0.05	13.05
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	0.775	29.9#	103	0.00	13.19
41	t	n-nitrosodiphenylamine	0.785	0.629	19.9	121	0.10	13.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66183.D M4M2974SIM.M Thu Jun 30 11:18:21 2016 MANAGER

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2991-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66511.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2991\4m66511.D          Vial: 2
Acq On    : 30 Jun 2016  10:30 pm                     Operator: juliusj
Sample    : cc2974-1.0                                Inst    : GCMS4M
Misc      : op95121a,e4m2991                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 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	92	-0.02	9.76
2	S	2-Fluorophenol	0.637	0.620	2.7	89	0.02	4.11
3	S	Phenol-d5	1.005	0.976	2.9	87	0.05	5.54
4	t	Phenol	1.088	1.022	6.1	86	0.04	5.55
5	t	bis(2-Chloroethyl)ether	0.768	0.679	11.6	78	0.00	5.61
6	S	Nitrobenzene-d5	0.894	0.859	3.9	88	0.00	6.97
7	t	Naphthalene	2.792	2.628	5.9	85	0.00	8.31
8	t	Hexachlorobutadiene	0.476	0.457	4.0	89	-0.03	8.56
9	t	2-Methylnaphthalene	1.323	1.269	4.1	95	-0.02	9.64
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	2.448	-22.4#	150	-0.02	9.98
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.255	22.0#	71	0.00	10.43
12	I	Fluorene-d10	1.000	1.000	0.0	91	-0.02	12.74
13	t	Acenaphthylene	1.060	1.295	-22.2#	100	0.00	11.41
14	t	Acenaphthene	0.658	0.763	-16.0	93	0.00	11.76
15	t	Dibenzofuran	1.070	1.048	2.1	86	-0.02	12.12
16	t	Fluorene	1.183	1.056	10.7	72	-0.02	12.79
17	S	2,4,6-Tribromophenol	0.186	0.209	-12.4	91	0.00	13.31
18	t	Hexachlorobenzene	0.395	0.395	0.0	86	0.00	13.90
19	t	Pentachlorophenol	0.146	0.163	-11.6	89	0.01	14.35
20	t	Phenanthrene	1.598	1.720	-7.6	88	0.00	14.71
21	t	Anthracene	1.472	1.638	-11.3	92	-0.02	14.81
22	I	Fluoranthene-d10	1.000	1.000	0.0	112	0.00	16.93
23	t	Fluoranthene	1.169	1.008	13.8	89	0.00	16.97
24	t	Pyrene	1.139	1.020	10.4	92	0.00	17.37
25	S	Terphenyl-d14	0.565	0.525	7.1	92	-0.02	17.72
26	t	Benzo[a]anthracene	0.988	0.955	3.3	102	0.03	19.46
27	t	Chrysene	1.027	0.923	10.1	97	-0.09	19.51
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	120	0.02	21.54
29	t	Benzo[b]fluoranthene	1.386	1.217	12.2	98	0.02	21.12
30	t	Benzo[k]fluoranthene	1.343	1.107	17.6	93	0.02	21.16
31	t	Benzo[a]pyrene	1.255	1.089	13.2	96	-0.05	21.57
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.378	6.1	103	-0.07	23.11
33	t	Dibenz[a,h]anthracene	1.217	1.153	5.3	104	-0.05	23.15
34	t	Benzo[g,h,i]perylene	1.278	1.182	7.5	102	-0.05	23.53

Continuing Calibration Summary

Job Number: JC22206 **Sample:** E4M2991-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66511.D
Project: BMSMC, Building 5 Area, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	92	-0.02	9.76
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	1.050	-5.0	98	-0.03	2.29
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.392	-16.2	114	0.00	9.83
38	I	Fluorene-d10a	1.000	1.000	0.0	91	-0.02	12.74
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	3.231	35.4#	63	0.02	13.03
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.061	4.0	77	-0.02	13.17
41	t	n-nitrosodiphenylamine	0.785	0.914	-16.4	92	0.05	13.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66184.D M4M2974SIM.M Fri Jul 01 09:16:37 2016 MANAGER

Initial Calibration Summary

Job Number: JC22206 **Sample:** EF6644-ICC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157852.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration

Calibration Files
2 =F157855.D 5 =F157854.D 25 =F157851.D 80 =F157850.D
100 =F157849.D 50 =F157852.D 10 =F157853.D 1 =F157856.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.745	0.782	0.761	0.692	0.682	0.709	0.732	0.770	0.734	5.03
3) Pyridine	1.786	1.749	1.988	1.887	1.867	1.906	1.735	1.496	1.802	8.33
4) N-Nitrosodim	0.362	0.381	0.520	0.503	0.502	0.502	0.441	0.410	0.453	13.75
5) 2-Fluorophen	1.431	1.518	1.591	1.483	1.467	1.528	1.507	1.392	1.490	4.12
6) Indene	2.986	2.927	2.886	2.501	2.441	2.707	2.894	3.049	2.799	8.05
7) Cumene	4.082	4.009	3.872	3.427	3.336	3.671	3.859	4.232	3.811	8.23
8) Phenol-d5	1.927	1.972	2.026	1.888	1.864	1.965	1.943	1.840	1.928	3.21
9) Phenol	2.196	2.225	2.280	2.126	2.067	2.185	2.230	2.102	2.176	3.31
10) Aniline	2.806	2.750	2.787	2.375	2.319	2.632	2.655	2.752	2.634	7.14
11) bis(2-Chloro	1.630	1.684	1.632	1.492	1.476	1.570	1.582	1.765	1.604	5.97
12) 2-Chlorophen	1.587	1.630	1.649	1.519	1.481	1.595	1.621	1.633	1.589	3.74
13) Decane	1.331	1.309	1.262	1.074	1.049	1.157	1.279	1.438	1.237	10.80
14) 1,3-Dichloro	1.841	1.863	1.764	1.589	1.530	1.681	1.767	1.914	1.744	7.73
15) 1,4-Dichloro	1.933	1.810	1.783	1.605	1.550	1.710	1.804	1.992	1.773	8.47
16) Benzyl alcoh	1.032	1.085	1.101	1.022	1.009	1.068	1.027	0.994	1.042	3.66
17) 1,2-Dichloro	1.811	1.728	1.665	1.490	1.434	1.617	1.707	1.842	1.662	8.66
18) Acetophenone	2.441	2.379	2.309	2.027	1.956	2.174	2.310	2.353	2.244	7.76
19) 2-Methylphen	1.495	1.550	1.596	1.462	1.434	1.531	1.536	1.424	1.503	4.02
20) 2,2'-oxybis(	0.582	0.544	0.545	0.479	0.465	0.513	0.535	0.585	0.531	8.19
21) 3&4-Methylph	1.601	1.634	1.681	1.520	1.461	1.611	1.629	1.522	1.582	4.66
22) n-Nitroso-di	1.228	1.260	1.244	1.094	1.073	1.184	1.221	1.159	1.183	5.85
23) Hexachloroet	0.473	0.490	0.491	0.458	0.451	0.479	0.484	0.481	0.476	3.09
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.405	0.402	0.415	0.394	0.388	0.410	0.408	0.378	0.400	3.10
26) Nitrobenzene	0.435	0.451	0.452	0.424	0.414	0.441	0.450	0.445	0.439	3.15
27) Quinoline	0.806	0.807	0.804	0.749	0.740	0.783	0.797	0.809	0.787	3.49
28) Isophorone	0.734	0.761	0.770	0.715	0.701	0.765	0.762	0.690	0.737	4.32
29) 2-Nitropheno	0.145	0.170	0.193	0.184	0.178	0.195	0.184	0.132	0.173	13.11
30) 2,4-Dimethyl	0.370	0.381	0.397	0.360	0.354	0.391	0.377	0.361	0.374	4.12
31) Benzoic acid			0.263	0.285	0.286	0.278	0.192		0.261	15.08
32) bis(2-Chloro	0.474	0.490	0.474	0.434	0.426	0.458	0.474	0.491	0.465	5.20
33) 2,4-Dichloro	0.265	0.290	0.296	0.279	0.271	0.296	0.284	0.240	0.278	6.79
34) 2,6-Dichloro	0.280	0.293	0.295	0.262	0.253	0.288	0.292	0.252	0.277	6.60
35) 1,3,5-Trichl	0.361	0.338	0.322	0.279	0.269	0.310	0.334	0.361	0.322	10.64
36) 1,2,4-Trichl	0.344	0.320	0.307	0.281	0.274	0.305	0.315	0.329	0.309	7.51
37) 1,2,3-Trichl	0.337	0.316	0.306	0.282	0.273	0.305	0.318	0.324	0.307	6.96
38) Naphthalene	1.261	1.224	1.171	1.030	0.988	1.121	1.190	1.303	1.161	9.41
39) 4-Chloroanil	0.500	0.499	0.493	0.427	0.409	0.475	0.491	0.478	0.472	7.34
40) 2,3-Dichloro	0.372	0.379	0.369	0.325	0.308	0.355	0.373	0.355	0.355	7.13
41) Caprolactam	0.119	0.129	0.140	0.134	0.134	0.139	0.132	0.101	0.128	9.84
42) Hexachlorobu	0.145	0.147	0.140	0.128	0.124	0.137	0.141	0.145	0.138	6.06
43) 4-Chloro-3-m	0.300	0.326	0.338	0.322	0.317	0.333	0.328	0.286	0.319	5.53
44) 2-Methylnaph	0.641	0.648	0.619	0.567	0.542	0.609	0.630	0.659	0.614	6.64
45) 1-Methylnaph	0.682	0.681	0.651	0.591	0.567	0.640	0.662	0.718	0.649	7.62

```
46) Dimethylnaph 0.671 0.659 0.645 0.589 0.571 0.639 0.652 0.658 0.635   5.67

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.219 0.244 0.280 0.259 0.250 0.278 0.257 0.184 0.246  12.93
49) 2,4,6-Trichl 0.292 0.299 0.322 0.292 0.279 0.316 0.316 0.241 0.294   8.87
50) 2,4,5-Trichl 0.306 0.334 0.358 0.339 0.333 0.362 0.351 0.291 0.334   7.41
51) 2-Fluorobiph 1.369 1.325 1.265 1.126 1.074 1.236 1.299 1.375 1.259   8.70
52) 2-Chloronaph 1.216 1.207 1.181 1.071 1.029 1.160 1.204 1.275 1.168   6.92
53) Biphenyl     1.671 1.627 1.546 1.364 1.319 1.506 1.586 1.696 1.539   8.93
54) 2-Nitroanili 0.272 0.318 0.365 0.350 0.342 0.359 0.342 0.274 0.328  11.16
55) Dimethylphth 1.346 1.330 1.299 1.198 1.154 1.269 1.312 1.289 1.275   5.21
56) Acenaphthyle 1.918 1.961 1.928 1.773 1.691 1.893 1.928 1.893 1.873   4.93
57) 2,6-Dinitrot 0.207 0.240 0.285 0.282 0.277 0.291 0.265 0.173 0.252  16.94
58) 3-Nitroanili 0.266 0.319 0.359 0.352 0.345 0.366 0.340 0.245 0.324  13.88
59) Acenaphthene 1.308 1.274 1.209 1.075 1.040 1.175 1.226 1.323 1.204   8.58
60) 2,4-Dinitrop 0.035 0.065 0.128 0.152 0.151 0.145 0.092       0.110  42.18
         ----- Quadratic regression -----                Coefficient =  0.9994
              Response Ratio = -0.02142 + 0.14976 *A + 0.00125 *A^2

61) 4-Nitropheno 0.107 0.143 0.172 0.178 0.174 0.179 0.160       0.159  16.35
62) Dibenzofuran 1.776 1.696 1.631 1.455 1.400 1.586 1.655 1.797 1.625   8.68
63) 2,4-Dinitrot 0.259 0.338 0.397 0.387 0.381 0.403 0.362 0.222 0.344  19.73
64) 2,3,4,6-Tetr 0.189 0.223 0.253 0.250 0.241 0.259 0.240 0.148 0.225  16.93
65) Diethylphtha 1.223 1.247 1.265 1.179 1.142 1.263 1.255 1.189 1.220   3.75
66) Fluorene     1.374 1.329 1.291 1.132 1.084 1.255 1.335 1.320 1.265   8.19
67) 4-Chlorophen 0.567 0.563 0.538 0.461 0.440 0.514 0.550 0.560 0.524   9.28
68) 4-Nitroanili 0.280 0.328 0.379 0.369 0.364 0.385 0.360 0.223 0.336  16.95

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.056 0.075 0.127 0.143 0.141 0.139 0.099       0.112  31.48
         ----- Quadratic regression -----                Coefficient =  0.9995
              Response Ratio = -0.00867 + 0.14576 *A + -0.00004 *A^2

71) n-Nitrosodip 0.554 0.575 0.567 0.531 0.512 0.560 0.570 0.547 0.552   3.86
72) 1,2-Diphenyl 1.011 1.028 1.009 0.920 0.883 0.974 1.019 0.966 0.976   5.29
73) 2,4,6-Tribro 0.056 0.068 0.079 0.077 0.075 0.079 0.072       0.072  11.25
74) 4-Bromopheny 0.180 0.183 0.184 0.172 0.166 0.178 0.180 0.177 0.178   3.44
75) Hexachlorobe 0.195 0.191 0.192 0.173 0.165 0.183 0.192 0.213 0.188   7.71
76) Pentachlorop 0.068 0.093 0.122 0.120 0.117 0.123 0.108       0.107  18.75
77) Phenanthrene 1.353 1.271 1.211 1.101 1.058 1.183 1.246 1.355 1.222   8.80
78) Anthracene   1.220 1.237 1.228 1.119 1.080 1.195 1.228 1.169 1.185   4.88
79) Carbazole    1.118 1.146 1.146 1.079 1.033 1.138 1.157 1.056 1.109   4.25
80) Di-n-butylph 1.088 1.224 1.355 1.313 1.274 1.356 1.287 0.970 1.233  11.11
81) Fluoranthene 1.083 1.094 1.123 1.061 1.026 1.117 1.115 1.066 1.086   3.08
82) Octadecane   0.434 0.468 0.489 0.434 0.418 0.467 0.482 0.397 0.449   7.30

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.410 1.436 1.453 1.388 1.357 1.440 1.442 1.355 1.410   2.78
85) Terphenyl-d1 0.766 0.796 0.820 0.808 0.797 0.833 0.799 0.756 0.797   3.22
86) Butylbenzylp 0.425 0.536 0.671 0.703 0.697 0.710 0.596       0.620  17.32
87) Butyl steara                                                 0.000# -1.00
88) Benzo[a]anth 1.141 1.134 1.183 1.177 1.159 1.194 1.142 1.192 1.165   2.07
89) 3,3'-Dichlor 0.270 0.350 0.426 0.443 0.437 0.439 0.391       0.394  16.26
90) Chrysene     1.261 1.276 1.249 1.205 1.197 1.244 1.245 1.308 1.248   2.88
91) bis(2-Ethylh 0.450 0.667 0.916 0.985 0.968 0.975 0.786 0.339 0.761  33.25
         ----- Quadratic regression -----                Coefficient =  0.9997
              Response Ratio = -0.03675 + 1.00929 *A + -0.00828 *A^2


92) I   Perylene-d12          ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** EF6644-ICC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157852.D
Project: BMSMC, Building 5 Area, PR

```
 93) Di-n-octylph 0.626 0.996 1.587 1.743 1.706 1.741 1.294 0.532 1.278  39.36
          ----- Quadratic regression -----                Coefficient =  0.9994
               Response Ratio = -0.08380 + 1.81981 *A + -0.02751 *A^2

 94) Benzo[b]fluo 1.110 1.228 1.323 1.259 1.232 1.326 1.298 1.045 1.228   8.26
 95) Benzo[k]fluo 1.205 1.259 1.305 1.251 1.205 1.317 1.285 1.087 1.239   5.98
 96) Benzo[a]pyre 0.902 1.033 1.167 1.137 1.116 1.189 1.081 0.803 1.054  12.88
 97) Indeno[1,2,3 0.794 0.932 1.074 1.082 1.043 1.090 1.004 0.706 0.966  14.98
 98) Dibenz(a,h)a 0.663 0.810 0.976 0.951 0.916 0.969 0.899 0.531 0.839  19.34
 99) Dibenz[a,h]a 0.826 0.972 1.097 1.077 1.078 1.102 1.028 0.760 0.992  13.24
100) 7,12-Dimethy 0.458 0.523 0.631 0.585 0.565 0.631 0.568 0.373 0.542  16.33
101) Benzo[g,h,i] 0.977 1.104 1.200 1.165 1.128 1.195 1.136 0.936 1.105   8.86


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

          MF6644.M          Fri Jun 10 13:22:12 2016   RT1
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** EF6645-ICC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157860.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6645.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration

Calibration Files
2 =F157864.D 5 =F157863.D 25 =F157861.D 80 =F157859.D
100 =F157858.D 50 =F157860.D 10 =F157862.D 1 =F157865.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
159) I 1,4-Dichlorobenzene-d	ISTD									
160) Benzaldehyde	1.215	1.091	1.157	1.018	0.927	1.133	1.206	1.027	1.097	9.18
161) I Naphthalene-d8b	ISTD									
162) Hydroquinone	0.276	0.260	0.323	0.356	0.360	0.345	0.301	0.201	0.303	18.18
163) Acenaphthene-d10b	ISTD									
164) 1,2,4,5-Tetr	0.500	0.400	0.406	0.393	0.388	0.412	0.446	0.411	0.420	8.78
165) Phenanthrene-d10b	ISTD									
166) Atrazine	0.137	0.130	0.167	0.171	0.172	0.174	0.162	0.089	0.150	19.85
167) Chrysene-d12b	ISTD									
168) Benzidine	0.363	0.553	0.399	0.362	0.509	0.533			0.453	19.49

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

MF6644.M Fri Jun 10 13:37:00 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6644
Lab FileID: F157867.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6644\F157867.D Vial: 11
Acq On : 9 Jun 2016 7:25 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 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	106	0.00	4.94
3	t	Pyridine	1.802	1.858	-3.1	103	0.07	2.93
10	t	Aniline	2.634	2.701	-2.5	109	0.00	4.70
16	t	Benzyl alcohol	1.042	1.105	-6.0	110	0.00	5.04
24	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	5.86
39	t	4-Chloroaniline	0.472	0.456	3.4	106	0.00	5.91
44	t	2-Methylnaphthalene	0.614	0.570	7.2	103	0.00	6.40
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.35
54	t	2-Nitroaniline	0.328	0.316	3.7	99	0.00	6.90
58	t	3-Nitroaniline	0.324	0.317	2.2	98	0.00	7.30
68	t	4-Nitroaniline	0.336	0.319	5.1	93	0.00	8.00
69	I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00	9.33
79	t	Carbazole	1.109	1.067	3.8	104	0.00	9.74

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6645
Lab FileID: F157868A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6644\F157868A.D          Vial: 12
Acq On    :  9 Jun 2016   7:55 pm                    Operator: brittanp
Sample    : icv6645-50                               Inst    : MSF
Misc      : op93756,ef6645                           Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 10 12:51:27 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	107	0.00	4.94
160	t	Benzaldehyde	1.097	1.226	-11.8	116	0.00	4.62
165		Phenanthrene-d10b	1.000	1.000	0.0	102	0.00	9.33
166		Atrazine	0.150	0.178	-18.7	104	0.00	8.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:34 2016 RT1

Initial Calibration Verification

Job Number: JC22206 **Sample:** EF6645-ICV6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157868.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6644\F157868.D          Vial: 12
Acq On    :  9 Jun 2016   7:55 pm                   Operator: brittanp
Sample    : icv6644-50                              Inst    : MSF
Misc      : op93756,ef6645                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 10 12:51:27 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	0.00	4.94
2	t	1,4-Dioxane	0.734	0.671	8.6	112	0.02	2.55
6	t	Indene	2.799	2.624	6.3	115	0.00	5.12
7	t	Cumene	3.811	3.431	10.0	111	0.00	4.35
13	t	Decane	1.237	1.110	10.3	113	0.00	4.81
18	t	Acetophenone	2.244	2.017	10.1	110	0.00	5.23
24	I	Naphthalene-d8	1.000	1.000	0.0	129	0.00	5.86
27	t	Quinoline	0.787	0.620	21.2	102	0.00	6.12
40	t	2,3-Dichloroaniline	0.355	0.260	26.8	94	0.00	6.63
41	t	Caprolactam	0.128	0.101	21.1	94	-0.03	6.16
45	t	1-Methylnaphthalene	0.649	0.505	22.2	102	0.00	6.48
46	t	Dimethylnaphthalene	0.635	0.500	21.3	101	0.00	6.93
47	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	7.35
53	t	Biphenyl	1.539	1.380	10.3	101	0.00	6.79
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	9.33
82	t	Octadecane	0.449	0.464	-3.3	104	0.00	9.21
92	I	Perylene-d12	1.000	1.000	0.0	89	0.00	17.77
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.554	-2.2	78	-0.01	17.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:33 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6645
Lab FileID: F157869A.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869A.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 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	105	0.00	7.36
164	1,2,4,5-Tetrachlorobenzen	0.420	0.473	-12.6	120	0.00	6.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:36 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6644
Lab FileID: F157869.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 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	0.00	4.94
4	t	N-Nitrosodimethylamine	0.453	0.463	-2.2	108	0.01	2.83
11	t	bis(2-Chloroethyl)ether	1.604	1.550	3.4	116	0.00	4.74
14	t	1,3-Dichlorobenzene	1.744	1.581	9.3	111	0.00	4.89
15	t	1,4-Dichlorobenzene	1.773	1.614	9.0	111	0.00	4.95
17	t	1,2-Dichlorobenzene	1.662	1.525	8.2	111	0.00	5.06
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.452	14.9	104	0.00	5.13
22		n-Nitroso-di-n-propylamin	1.183	1.077	9.0	107	0.00	5.23
23	t	Hexachloroethane	0.476	0.458	3.8	112	0.00	5.31
24	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.86
26	t	Nitrobenzene	0.439	0.396	9.8	102	0.00	5.35
28	t	Isophorone	0.737	0.734	0.4	109	0.00	5.52
32	t	bis(2-Chloroethoxy)methan	0.465	0.430	7.5	107	0.00	5.67
36	t	1,2,4-Trichlorobenzene	0.309	0.287	7.1	107	0.00	5.82
38	t	Naphthalene	1.161	1.078	7.1	110	0.00	5.88
42	t	Hexachlorobutadiene	0.138	0.132	4.3	110	0.00	5.96
47	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00	7.36
48	t	Hexachlorocyclopentadiene	0.246	0.212	13.8	84	0.00	6.52
52	t	2-Chloronaphthalene	1.168	1.065	8.8	101	0.00	6.81
55	t	Dimethylphthalate	1.275	1.148	10.0	100	0.00	7.06
56	t	Acenaphthylene	1.873	1.701	9.2	99	0.00	7.21
57	t	2,6-Dinitrotoluene	0.252	0.229	9.1	87	0.00	7.13
59	t	Acenaphthene	1.204	1.112	7.6	104	0.00	7.39
63	t	2,4-Dinitrotoluene	0.344	0.286	16.9	78	0.00	7.55
65	t	Diethylphthalate	1.220	1.108	9.2	97	0.00	7.83
66	t	Fluorene	1.265	1.133	10.4	100	0.00	7.99
67	t	4-Chlorophenyl-phenylethe	0.524	0.470	10.3	101	0.00	7.98
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	9.34
71	t	n-Nitrosodiphenylamine	0.552	0.543	1.6	101	0.00	8.13
72	t	1,2-Diphenylhydrazine	0.976	0.963	1.3	103	0.00	8.18
74	t	4-Bromophenyl-phenylether	0.178	0.176	1.1	102	0.00	8.65
75	t	Hexachlorobenzene	0.188	0.170	9.6	97	0.00	8.73
77	t	Phenanthrene	1.222	1.106	9.5	97	0.00	9.38
78	t	Anthracene	1.185	1.098	7.3	95	0.00	9.46
80	t	Di-n-butylphthalate	1.233	1.249	-1.3	96	0.00	10.46
81	t	Fluoranthene	1.086	1.016	6.4	94	0.00	11.58
83	I	Chrysene-d12	1.000	1.000	0.0	98	0.00	14.71

Initial Calibration Verification

Job Number: JC22206 **Sample:** EF6645-ICV6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157869.D
Project: BMSMC, Building 5 Area, PR

84	t	Pyrene	1.410	1.398	0.9	96	0.00	12.04
86	t	Butylbenzylphthalate	0.620	0.618	0.3	86	0.00	13.65
88	t	Benzo[a]anthracene	1.165	1.088	6.6	90	0.00	14.69
90	t	Chrysene	1.248	1.112	10.9	88	0.00	14.77
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	50.000	44.685	10.6	87	0.00	15.06
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	93	0.00	17.77
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	50.000	45.348	9.3	83	0.00	16.51
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.228	1.162	5.4	82	0.00	17.02
95	t	Benzo[k]fluoranthene	1.239	1.265	-2.1	89	-0.01	17.07
96	t	Benzo[a]pyrene	1.054	1.097	-4.1	86	0.00	17.66
97	t	Indeno[1,2,3-cd]pyrene	0.966	0.935	3.2	80	0.00	19.72
99	t	Dibenz[a,h]anthracene	0.992	0.962	3.0	81	0.00	19.78
101	t	Benzo[g,h,i]perylene	1.105	1.056	4.4	82	0.00	20.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:35 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6644
Lab FileID: F157870.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6644\F157870.D Vial: 14
Acq On : 9 Jun 2016 8:52 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 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	125	0.00	4.94
5	S	2-Fluorophenol	1.490	1.547	-3.8	126	0.00	3.95
8	S	Phenol-d5	1.928	1.907	1.1	121	0.00	4.65
24	I	Naphthalene-d8	1.000	1.000	0.0	121	0.00	5.86
25	S	Nitrobenzene-d5	0.400	0.397	0.8	117	0.00	5.34
47	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00	7.35
51	S	2-Fluorobiphenyl	1.259	1.253	0.5	115	0.00	6.69
69	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00	9.33
73	S	2,4,6-Tribromophenol	0.072	0.072	0.0	98	0.00	8.29
83	I	Chrysene-d12	1.000	1.000	0.0	99	0.00	14.71
85	S	Terphenyl-d14	0.797	0.865	-8.5	103	0.00	12.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:37 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6645
Lab FileID: F157871A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6644\F157871A.D          Vial: 15
Acq On    :  9 Jun 2016   9:21 pm                    Operator: brittanp
Sample    : icv6645-50                               Inst    : MSF
Misc      : op93756,ef6645                           Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 10 12:51:27 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	97	0.00	14.71
168	Benzidine	0.453	0.757	-67.1#	144	0.00	11.93

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:39 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6644
Lab FileID: F157871.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6644\F157871.D          Vial: 15
Acq On    :  9 Jun 2016   9:21 pm                   Operator: brittanp
Sample    : icv6644-50                              Inst    : MSF
Misc      : op93756,ef6645                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 10 12:51:27 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	100	0.00	14.71
89 t	3,3'-Dichlorobenzidine	0.394	0.367	6.9	84	0.00	14.72

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:38 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6645-ICV6645
Lab FileID: F157872.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6644\F157872.D          Vial: 16
Acq On    :  9 Jun 2016   9:50 pm                   Operator: brittanp
Sample    : icv6645-50                              Inst    : MSF
Misc      : op93756,ef6645                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 10 12:51:27 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	92	0.00	5.86
162	t	Hydroquinone	0.303	0.335	-10.6	90	-0.01	6.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157860A.D MF6644.M Fri Jun 10 13:22:40 2016 RT1

Initial Calibration Verification

Job Number: JC22206 **Sample:** EF6646-ICV6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157880.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6646\F157880.D          Vial: 2
Acq On    : 10 Jun 2016   4:09 pm                   Operator: brittanp
Sample    : icv6644-50                              Inst    : MSF
Misc      : op93756,ef6646                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Sun Jun 12 12:17:27 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	125	-0.01	4.93
9	t	Phenol	2.176	1.949	10.4	112	-0.02	4.65
12	t	2-Chlorophenol	1.589	1.467	7.7	115	-0.01	4.77
19	t	2-Methylphenol	1.503	1.381	8.1	113	-0.01	5.10
21	t	3&4-Methylphenol	1.582	1.472	7.0	114	-0.02	5.20
24	I	Naphthalene-d8	1.000	1.000	0.0	124	-0.01	5.85
29	t	2-Nitrophenol	0.173	0.182	-5.2	116	-0.01	5.57
30	t	2,4-Dimethylphenol	0.374	0.364	2.7	115	-0.01	5.59
31	t	Benzoic acid	0.261	0.253	3.1	113	-0.02	5.66
33	t	2,4-Dichlorophenol	0.278	0.271	2.5	114	-0.02	5.74
34		2,6-Dichlorophenol	0.277	0.265	4.3	114	-0.01	5.90
43	t	4-Chloro-3-methylphenol	0.319	0.307	3.8	114	-0.02	6.25
47	I	Acenaphthene-d10	1.000	1.000	0.0	120	-0.02	7.34
49	t	2,4,6-Trichlorophenol	0.294	0.312	-6.1	118	-0.02	6.61
50	t	2,4,5-Trichlorophenol	0.334	0.319	4.5	105	-0.02	6.64
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	43.675	12.7	94	-0.02	7.39
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.169	-6.3	113	-0.02	7.44
64		2,3,4,6-Tetrachlorophenol	0.225	0.232	-3.1	107	-0.02	7.69
69	I	Phenanthrene-d10	1.000	1.000	0.0	117	-0.02	9.32
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	42.612	14.8	99	-0.02	8.02
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.107	0.118	-10.3	112	-0.02	9.01
83	I	Chrysene-d12	1.000	1.000	0.0	114	-0.03	14.69
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	108	-0.03	17.75

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 F157884A.D MF6644.M          Mon Jun 13 09:27:45 2016   RT1
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** EF6647-ICC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157884.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6647.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration

Calibration Files
2 =F157888.D 5 =F157887.D 25 =F157885.D 80 =F157883.D
100 =F157882.D 50 =F157884.D 10 =F157886.D 1 =F157889.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
102) I 1,4-Dichlorobenzene-d	ISTD									
103) 2-Picoline	2.047	2.029	1.820	1.719	1.812	1.763	1.878	2.072	1.892	7.29
104) Pentachloroe	0.583	0.615	0.546	0.520	0.522	0.530	0.565	0.640	0.565	7.90
105) Methyl metha	0.926	0.932	0.830	0.791	0.825	0.815	0.863	0.969	0.869	7.50
106) N-Nitrosodie	0.852	0.868	0.778	0.756	0.787	0.779	0.799	0.810	0.804	4.78
107) N-Nitrosomet	0.478	0.486	0.437	0.433	0.466	0.439	0.451	0.531	0.465	7.11
108) Ethyl methan	1.347	1.322	1.166	1.116	1.182	1.162	1.213	1.320	1.228	7.19
109) N-Nitrosopyr	0.433	0.401	0.376	0.402	0.469	0.423	0.346	0.428	0.410	9.15
110) N-Nitrosomor	0.685	0.696	0.595	0.573	0.603	0.607	0.646	0.722	0.641	8.55
111) o-Toluidine	2.751	2.841	2.510	2.122	2.170	2.423	2.584	2.923	2.540	11.63
112) I Naphthalene-d8A	ISTD									
113) O,O,O-Trieth	0.170	0.168	0.157	0.147	0.143	0.150	0.158	0.175	0.158	7.43
114) N-Nitrosopip	0.161	0.160	0.142	0.136	0.139	0.138	0.150	0.164	0.149	7.71
115) A,A-Dimethyl	0.573	0.620	0.610	0.670	0.673	0.664	0.668	0.548	0.628	7.73
116) Hexachloropr	0.185	0.194	0.184	0.186	0.180	0.185	0.187	0.179	0.185	2.51
117) p-Phenylened	0.138	0.187	0.159	0.160	0.155	0.162	0.194	0.123	0.160	14.49
118) N-Nitrosodi-	0.258	0.261	0.240	0.234	0.236	0.242	0.260	0.261	0.249	4.82
119) Safrole	0.274	0.289	0.269	0.258	0.253	0.260	0.278	0.269	0.269	4.29
120) Isosafrole	0.217	0.234	0.220	0.222	0.220	0.225	0.229	0.225	0.224	2.51
121) I Acenaphthene-d10A	ISTD									
122) Thionazin	0.133	0.154	0.149	0.152	0.153	0.155	0.156	0.119	0.146	8.91
123) Tetraethyl d	0.127	0.128	0.138	0.135	0.135	0.142	0.132	0.102	0.130	9.44
124) Phorate	0.772	0.829	0.795	0.761	0.749	0.790	0.834	0.649	0.772	7.53
125) Phenacetin	0.483	0.571	0.630	0.665	0.668	0.674	0.641	0.373	0.588	18.39
126) 1,4-Naphthoq	0.303	0.370	0.406	0.379	0.357	0.408	0.385	0.270	0.360	13.60
127) m-Dinitroben	0.116	0.143	0.179	0.189	0.189	0.187	0.169		0.167	16.82
128) Pentachlorob	0.438	0.417	0.383	0.368	0.359	0.377	0.398	0.450	0.399	8.35
129) 1-Naphthylam	0.940	1.045	0.930	0.926	0.917	0.953	0.999	0.852	0.945	6.05
130) 2-Naphthylam	1.190	1.145	1.157	1.107	1.074	1.158	1.184	1.146	1.145	3.35
131) 5-Nitro-o-to	0.282	0.334	0.354	0.354	0.360	0.356	0.362	0.219	0.328	15.67
132) I Phenanthrene-d10A	ISTD									
133) Disulfoton	0.392	0.438	0.460	0.424	0.412	0.436	0.441	0.316	0.415	10.85
134) Dinoseb	0.057	0.078	0.137	0.172	0.171	0.162	0.107		0.126	36.76
135) Dimethoate	0.273	0.314	0.338	0.318	0.307	0.333	0.331	0.203	0.302	14.86
136) 4-Aminobiphe	0.392	0.409	0.390	0.380	0.365	0.394	0.394	0.354	0.385	4.61
137) Methyl parat	0.117	0.161	0.212	0.206	0.201	0.215	0.191		0.186	18.95
138) Parathion	0.101	0.137	0.169	0.171	0.169	0.175	0.159		0.154	17.36
139) Diphenylamin	0.654	0.685	0.621	0.572	0.557	0.590	0.638	0.645	0.620	7.07
140) Isodrin	0.123	0.127	0.121	0.119	0.117	0.120	0.122	0.115	0.120	3.15
141) Diallate	0.056	0.068	0.065	0.064	0.064	0.064	0.062	0.080	0.065	10.52
142) Pentachloron	0.029	0.034	0.033	0.032	0.031	0.032	0.034		0.032#	4.81

Initial Calibration Summary

Job Number: JC22206 **Sample:** EF6647-ICC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157884.D
Project: BMSMC, Building 5 Area, PR

```
143) Pronamide    0.261 0.301 0.341 0.347 0.340 0.344 0.328 0.203 0.308  16.66
144) 4-Nitroquino 0.028 0.051 0.099 0.113 0.111 0.111 0.076 0.021 0.076  50.35
145) Methapyrilin 0.248 0.318 0.301 0.214 0.202 0.253 0.333 0.216 0.260  19.46
146) sym-Trinitro       0.044 0.072 0.087 0.087 0.083 0.055       0.071  25.31

147) I   Chrysene-d12A         ----------------ISTD---------------------
148) Aramite            0.028 0.038 0.041 0.040 0.040 0.033       0.037# 13.79
149) p-(Dimethyla 0.311 0.397 0.451 0.454 0.446 0.457 0.429       0.420  12.55
150) Kepone       0.100 0.101 0.070 0.039 0.035 0.048 0.091 0.081 0.071  38.33
151) Famphur      0.450 0.486 0.375 0.185 0.163 0.262 0.469 0.381 0.347  36.83
152) 2-Acetylamin       0.337 0.498 0.545 0.535 0.530 0.413       0.476  17.50
153) 3,3'-Dimethy 0.502 0.610 0.367 0.149 0.119 0.207 0.551 0.404 0.364  51.70
154) Chlorobenzil 0.233 0.273 0.314 0.322 0.312 0.318 0.293 0.170 0.279  19.09

155) I   Perylene-d12A         ----------------ISTD---------------------
156) 4,4-Methylen 0.086 0.115 0.123 0.106 0.102 0.115 0.121       0.110  11.65
157) 3-Methylchol 0.373 0.499 0.598 0.617 0.631 0.618 0.543       0.554  16.76
158) Hexachloroph 0.007 0.009 0.035 0.074 0.086 0.058 0.017       0.041# 78.55


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

          MF6644.M          Sun Jun 12 12:31:23 2016   RT1
```

Initial Calibration Verification

Job Number: JC22206 **Sample:** EF6647-ICV6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157890.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6647\F157890.D Vial: 10
Acq On : 10 Jun 2016 8:54 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 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	117	0.00	4.93
103	t	2-Picoline	1.892	1.592	15.9	105	0.00	3.48
104	t	Pentachloroethane	0.565	0.408	27.8	90	0.00	4.72
106	t	N-Nitrosodiethylamine	0.804	0.710	11.7	106	0.00	4.12
107	t	N-Nitrosomethylethylamine	0.465	0.420	9.7	112	0.00	3.56
108	t	Ethyl methanesulfonate	1.228	1.057	13.9	106	0.00	4.35
109	t	N-Nitrosopyrrolidine	0.410	0.327	20.2	90	-0.01	5.20
110	t	N-Nitrosomorpholine	0.641	0.534	16.7	103	0.00	5.23
112	I	Naphthalene-d8A	1.000	1.000	0.0	111	0.00	5.85
113	t	O,O,O-Triethyl phosphorot	0.158	0.147	7.0	109	0.00	5.64
114	t	N-Nitrosopiperidine	0.149	0.135	9.4	108	0.00	5.45
115	t	A,A-Dimethylphenethylamin	0.628	0.631	-0.5	106	-0.03	5.76
116	t	Hexachloropropene	0.185	0.167	9.7	101	0.00	5.93
117	t	p-Phenylenediamine	0.160	0.289	-80.6#	199	0.00	6.16
118	t	N-Nitrosodi-n-butylamine	0.249	0.295	-18.5	136	0.00	6.14
119	t	Safrole	0.269	0.264	1.9	113	0.00	6.31
120	t	Isosafrole	0.224	0.259	-15.6	128	0.00	6.74
121	I	Acenaphthene-d10A	1.000	1.000	0.0	109	0.00	7.34
122	t	Thionazin	0.146	0.150	-2.7	106	0.00	7.92
123	t	Tetraethyl dithiopyrophos	0.130	0.136	-4.6	105	0.00	8.33
124	t	Phorate	0.772	0.772	0.0	107	0.00	8.53
125	t	Phenacetin	0.588	0.611	-3.9	99	0.00	8.55
126	t	1,4-Naphthoquinone	0.360	0.379	-5.3	102	0.00	6.96
128	t	Pentachlorobenzene	0.399	0.362	9.3	105	0.00	7.51
131	t	5-Nitro-o-toluidine	0.328	0.260	20.7	80	0.00	7.98
132	I	Phenanthrene-d10A	1.000	1.000	0.0	108	0.00	9.32
133	t	Disulfoton	0.415	0.462	-11.3	114	0.00	9.35
135	t	Dimethoate	0.302	0.289	4.3	93	0.00	8.78
136	t	4-Aminobiphenyl	0.385	0.367	4.7	101	0.00	9.03
137	t	Methyl parathion	0.186	0.165	11.3	83	0.00	10.00
138	t	Parathion	0.154	0.163	-5.8	101	0.00	10.75
139	t	Diphenylamine	0.620	0.682	-10.0	117	0.00	8.12
140	t	Isodrin	0.120	0.124	-3.3	111	0.00	11.26
141	t	Diallate	0.065	0.063	3.1	106	0.00	8.64
142	t	Pentachloronitrobenzene	0.032	0.031#	3.1	99	0.00	9.03
143	t	Pronamide	0.308	0.328	-6.5	103	0.00	9.14
144	t	4-Nitroquinoline 1-oxide	0.076	0.066	13.2	64	-0.02	10.76
145	t	Methapyriline	0.260	0.242	6.9	103	0.00	10.97

Initial Calibration Verification

Job Number: JC22206 **Sample:** EF6647-ICV6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157890.D
Project: BMSMC, Building 5 Area, PR

147	I	Chrysene-d12A	1.000	1.000	0.0	101	0.00	14.68
148	t	Aramite	0.037	0.040#	-8.1	101	0.00	12.66
149	t	p-(Dimethylamine)azobenze	0.420	0.464	-10.5	102	0.00	12.76
152	t	2-Acetylaminofluorene	0.476	0.516	-8.4	98	0.00	14.06
154	t	Chlorobenzilate	0.279	0.318	-14.0	101	0.00	12.90
155	I	Perylene-d12A	1.000	1.000	0.0	99	0.00	17.75
157	t	3-Methylcholanthrene	0.554	0.566	-2.2	91	0.00	18.35

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157884A.D MF6644.M Sun Jun 12 12:31:39 2016 RT1

Initial Calibration Verification

Job Number: JC22206 **Sample:** EF6647-ICV6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F157891.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6647\F157891.D Vial: 11
Acq On : 10 Jun 2016 9:23 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 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	113	0.00	4.93
105	t	Methyl methanesulfonate	0.869	0.760	12.5	106	0.00	3.81
111	t	o-Toluidine	2.540	2.227	12.3	104	0.00	5.24
121	I	Acenaphthene-d10A	1.000	1.000	0.0	106	0.00	7.34
129	t	1-Naphthylamine	0.945	1.180	-24.9	131	0.00	7.65
130	t	2-Naphthylamine	1.145	1.190	-3.9	109	0.00	7.74
132	I	Phenanthrene-d10A	1.000	1.000	0.0	105	0.00	9.32
146	t	sym-Trinitrobenzene	0.071	0.053	25.4	68	0.00	8.46
147	I	Chrysene-d12A	1.000	1.000	0.0	100	0.00	14.68
150	t	Kepone	0.071	0.068	4.2	144	0.00	13.49
151	t	Famphur	0.347	0.340	2.0	132	-0.02	13.45
153	t	3,3'-Dimethylbenzidine	0.364	0.650	-78.6#	315#	0.00	13.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157884A.D MF6644.M Sun Jun 12 12:31:40 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6657-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158097.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6657\F158097.D          Vial: 2
Acq On    : 20 Jun 2016   7:47 am                   Operator: brittanp
Sample    : cc6644-25                               Inst    : MSF
Misc      : op93756,ef6657,1000,,,1,1               Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 20 10:53:23 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	120	0.00	4.78
2	t	1,4-Dioxane	0.734	0.673	8.3	106	-0.10	2.36
3	t	Pyridine	1.802	1.715	4.8	104	-0.08	2.69
4	t	N-Nitrosodimethylamine	0.453	0.432	4.6	100	-0.08	2.64
5	S	2-Fluorophenol	1.490	1.596	-7.1	120	-0.10	3.79
6	t	Indene	2.799	2.861	-2.2	119	0.01	4.97
7	t	Cumene	3.811	3.859	-1.3	120	-0.02	4.19
8	S	Phenol-d5	1.928	1.974	-2.4	117	0.00	4.51
9	t	Phenol	2.176	2.383	-9.5	125	0.00	4.51
10	t	Aniline	2.634	2.405	8.7	104	0.00	4.54
11	t	bis(2-Chloroethyl)ether	1.604	1.547	3.6	114	0.00	4.59
12	t	2-Chlorophenol	1.589	1.669	-5.0	122	0.00	4.63
13	t	Decane	1.237	0.944	23.7#	90	0.00	4.66
14	t	1,3-Dichlorobenzene	1.744	1.764	-1.1	120	0.00	4.74
15	t	1,4-Dichlorobenzene	1.773	1.800	-1.5	121	0.00	4.80
16	t	Benzyl alcohol	1.042	1.083	-3.9	118	0.00	4.88
17	t	1,2-Dichlorobenzene	1.662	1.692	-1.8	122	0.00	4.91
18	t	Acetophenone	2.244	2.251	-0.3	117	0.03	5.08
19	t	2-Methylphenol	1.503	1.535	-2.1	115	0.02	4.96
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.537	-1.1	118	0.01	4.98
21	t	3&4-Methylphenol	1.582	1.614	-2.0	115	0.02	5.08
22		n-Nitroso-di-n-propylamin	1.183	1.022	13.6	99	0.01	5.08
23	t	Hexachloroethane	0.476	0.523	-9.9	128	0.01	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	121	0.00	5.71
25	S	Nitrobenzene-d5	0.400	0.393	1.8	114	-0.02	5.19
26	t	Nitrobenzene	0.439	0.409	6.8	110	-0.01	5.20
27	t	Quinoline	0.787	0.818	-3.9	123	0.00	5.97
28	t	Isophorone	0.737	0.712	3.4	112	-0.01	5.37
29	t	2-Nitrophenol	0.173	0.209	-20.8#	131	0.00	5.43
30	t	2,4-Dimethylphenol	0.374	0.384	-2.7	117	0.00	5.46
31	t	Benzoic acid	0.261	0.309	-18.4	142	0.00	5.53
32	t	bis(2-Chloroethoxy)methan	0.465	0.443	4.7	113	0.00	5.53
33	t	2,4-Dichlorophenol	0.278	0.306	-10.1	125	0.00	5.60
34		2,6-Dichlorophenol	0.277	0.300	-8.3	123	0.00	5.77
35		1,3,5-Trichlorobenzene	0.322	0.325	-0.9	122	0.00	5.44
36	t	1,2,4-Trichlorobenzene	0.309	0.315	-1.9	124	0.00	5.67
37		1,2,3-Trichlorobenzene	0.307	0.323	-5.2	128	0.00	5.83
38	t	Naphthalene	1.161	1.177	-1.4	122	0.00	5.73
39	t	4-Chloroaniline	0.472	0.469	0.6	115	0.00	5.76
40	t	2,3-Dichloroaniline	0.355	0.374	-5.4	123	0.00	6.46
41	t	Caprolactam	0.128	0.121	5.5	104	0.00	6.02

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6657-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158097.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.150	-8.7	129	0.00	5.81
43	t	4-Chloro-3-methylphenol	0.319	0.360	-12.9	129	0.01	6.11
44	t	2-Methylnaphthalene	0.614	0.645	-5.0	126	0.00	6.23
45	t	1-Methylnaphthalene	0.649	0.668	-2.9	124	0.00	6.32
46	t	Dimethylnaphthalene	0.635	0.677	-6.6	127	0.00	6.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	128	0.00	7.16
48	t	Hexachlorocyclopentadiene	0.246	0.306	-24.4#	140	0.00	6.36
49	t	2,4,6-Trichlorophenol	0.294	0.334	-13.6	133	0.01	6.46
50	t	2,4,5-Trichlorophenol	0.334	0.359	-7.5	128	0.01	6.49
51	S	2-Fluorobiphenyl	1.259	1.248	0.9	126	0.00	6.53
52	t	2-Chloronaphthalene	1.168	1.165	0.3	126	0.00	6.64
53	t	Biphenyl	1.539	1.525	0.9	126	0.00	6.61
54	t	2-Nitroaniline	0.328	0.321	2.1	113	0.00	6.72
55	t	Dimethylphthalate	1.275	1.310	-2.7	129	0.00	6.88
56	t	Acenaphthylene	1.873	1.921	-2.6	128	0.00	7.02
57	t	2,6-Dinitrotoluene	0.252	0.299	-18.7	134	0.00	6.95
58	t	3-Nitroaniline	0.324	0.363	-12.0	129	0.00	7.11
59	t	Acenaphthene	1.204	1.185	1.6	126	0.00	7.19
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	56.121	-12.2	152	0.00	7.21
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.191	-20.1#	142	0.00	7.27
62	t	Dibenzofuran	1.625	1.584	2.5	124	0.00	7.37
63	t	2,4-Dinitrotoluene	0.344	0.419	-21.8#	135	0.00	7.35
64		2,3,4,6-Tetrachlorophenol	0.225	0.273	-21.3#	138	0.00	7.51
65	t	Diethylphthalate	1.220	1.290	-5.7	130	0.00	7.63
66	t	Fluorene	1.265	1.296	-2.5	129	0.00	7.77
67	t	4-Chlorophenyl-phenylethe	0.524	0.541	-3.2	129	0.00	7.77
68	t	4-Nitroaniline	0.336	0.380	-13.1	128	0.00	7.79
69	I	Phenanthrene-d10	1.000	1.000	0.0	127	0.00	9.08
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	27.322	-9.3	146	0.00	7.82
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.569	-3.1	128	0.00	7.91
72	t	1,2-Diphenylhydrazine	0.976	0.887	9.1	112	0.00	7.97
73	S	2,4,6-Tribromophenol	0.072	0.085	-18.1	137	0.00	8.07
74	t	4-Bromophenyl-phenylether	0.178	0.193	-8.4	134	0.00	8.41
75	t	Hexachlorobenzene	0.188	0.194	-3.2	129	0.00	8.49
76	t	Pentachlorophenol	0.107	0.135	-26.2#	141	0.00	8.78
77	t	Phenanthrene	1.222	1.203	1.6	127	0.00	9.12
78	t	Anthracene	1.185	1.222	-3.1	127	0.00	9.20
79	t	Carbazole	1.109	1.159	-4.5	129	0.00	9.48
80	t	Di-n-butylphthalate	1.233	1.439	-16.7	135	0.01	10.19
81	t	Fluoranthene	1.086	1.175	-8.2	133	0.01	11.28
82	t	Octadecane	0.449	0.409	8.9	107	0.00	8.96
83	I	Chrysene-d12	1.000	1.000	0.0	135	0.00	14.38
84	t	Pyrene	1.410	1.409	0.1	131	-0.04	11.73
85	S	Terphenyl-d14	0.797	0.831	-4.3	137	-0.02	12.16
86	t	Butylbenzylphthalate	0.620	0.709	-14.4	143	0.00	13.34
88	t	Benzo[a]anthracene	1.165	1.223	-5.0	140	0.00	14.36
89	t	3,3'-Dichlorobenzidine	0.394	0.446	-13.2	142	0.00	14.40
90	t	Chrysene	1.248	1.234	1.1	134	0.00	14.44

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6657-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158097.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	25.000	25.727	-2.9	144	0.05	14.74

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	136	0.00	17.43

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	25.000	27.206	-8.8	156	-0.01	16.20

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.363	-11.0	140	-0.01	16.67
95	t	Benzo[k]fluoranthene	1.239	1.299	-4.8	135	-0.02	16.73
96	t	Benzo[a]pyrene	1.054	1.216	-15.4	142	0.00	17.31
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.118	-15.7	142	0.00	19.37
98	t	Dibenz(a,h)acridine	0.839	0.991	-18.1	138	-0.03	19.01
99	t	Dibenz[a,h]anthracene	0.992	1.111	-12.0	138	0.00	19.43
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.619	-14.2	133	-0.01	16.70
101	t	Benzo[g,h,i]perylene	1.105	1.229	-11.2	139	-0.03	19.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Mon Jun 20 11:31:14 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6657-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158098.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6657\F158098.D          Vial: 3
Acq On    : 20 Jun 2016   8:16 am                   Operator: brittanp
Sample    : cc6645-25                               Inst    : MSF
Misc      : op93756,ef6657,1000,,,1,1               Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 20 10:53:23 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	109	0.00	4.78
103	t	Benzaldehyde	1.097	1.150	-4.8	109	-0.01	4.46
104	I	Naphthalene-d8b	1.000	1.000	0.0	110	0.00	5.71
105	t	Hydroquinone	0.303	0.401	-32.3#	137	0.00	5.98
106		Acenaphthene-d10b	1.000	1.000	0.0	115	0.00	7.16
107		1,2,4,5-Tetrachlorobenzen	0.420	0.443	-5.5	125	0.00	6.36
108		Phenanthrene-d10b	1.000	1.000	0.0	123	0.00	9.08
109		Atrazine	0.150	0.190	-26.7#	140	0.00	8.67
110		Chrysene-d12b	1.000	1.000	0.0	128	0.00	14.38
111		Benzidine	0.453	0.595	-31.3#	137	0.00	11.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Mon Jun 20 11:31:15 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6659-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158152.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6659\F158152.D          Vial: 2
Acq On    : 21 Jun 2016  11:50 am                   Operator: brittanp
Sample    : cc6644-25                               Inst    : MSF
Misc      : op93756,ef6659                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 14:36:23 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	124	-0.02	4.76
2	t	1,4-Dioxane	0.734	0.751	-2.3	123	-0.12	2.34
3	t	Pyridine	1.802	1.729	4.1	108	-0.10	2.67
4	t	N-Nitrosodimethylamine	0.453	0.402	11.3	96	-0.10	2.62
5	S	2-Fluorophenol	1.490	1.549	-4.0	121	-0.12	3.77
6	t	Indene	2.799	2.714	3.0	117	-0.02	4.95
7	t	Cumene	3.811	3.764	1.2	121	-0.04	4.17
8	S	Phenol-d5	1.928	1.873	2.9	115	-0.01	4.49
9	t	Phenol	2.176	2.227	-2.3	121	-0.01	4.50
10	t	Aniline	2.634	2.121	19.5	95	-0.02	4.52
11	t	bis(2-Chloroethyl)ether	1.604	1.447	9.8	110	-0.02	4.57
12	t	2-Chlorophenol	1.589	1.604	-0.9	121	-0.03	4.61
13	t	Decane	1.237	0.893	27.8#	88	-0.02	4.64
14	t	1,3-Dichlorobenzene	1.744	1.726	1.0	122	-0.02	4.72
15	t	1,4-Dichlorobenzene	1.773	1.789	-0.9	125	-0.02	4.78
16	t	Benzyl alcohol	1.042	1.012	2.9	114	-0.01	4.86
17	t	1,2-Dichlorobenzene	1.662	1.675	-0.8	125	-0.02	4.88
18	t	Acetophenone	2.244	2.109	6.0	113	0.00	5.05
19	t	2-Methylphenol	1.503	1.451	3.5	113	0.00	4.95
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.517	2.6	118	-0.02	4.96
21	t	3&4-Methylphenol	1.582	1.522	3.8	112	0.00	5.05
22		n-Nitroso-di-n-propylamin	1.183	0.977	17.4	98	0.00	5.05
23	t	Hexachloroethane	0.476	0.496	-4.2	125	0.00	5.13
24	I	Naphthalene-d8	1.000	1.000	0.0	119	-0.02	5.69
25	S	Nitrobenzene-d5	0.400	0.388	3.0	111	-0.04	5.17
26	t	Nitrobenzene	0.439	0.404	8.0	106	-0.03	5.18
27	t	Quinoline	0.787	0.781	0.8	115	-0.02	5.95
28	t	Isophorone	0.737	0.687	6.8	106	-0.04	5.35
29	t	2-Nitrophenol	0.173	0.208	-20.2#	128	-0.03	5.41
30	t	2,4-Dimethylphenol	0.374	0.372	0.5	111	-0.02	5.44
31	t	Benzoic acid	0.261	0.280	-7.3	127	-0.02	5.51
32	t	bis(2-Chloroethoxy)methan	0.465	0.428	8.0	107	-0.02	5.51
33	t	2,4-Dichlorophenol	0.278	0.305	-9.7	122	-0.02	5.59
34		2,6-Dichlorophenol	0.277	0.294	-6.1	118	-0.01	5.75
35		1,3,5-Trichlorobenzene	0.322	0.333	-3.4	123	-0.03	5.42
36	t	1,2,4-Trichlorobenzene	0.309	0.317	-2.6	123	-0.02	5.65
37		1,2,3-Trichlorobenzene	0.307	0.315	-2.6	122	-0.02	5.81
38	t	Naphthalene	1.161	1.137	2.1	115	-0.02	5.71
39	t	4-Chloroaniline	0.472	0.447	5.3	108	-0.01	5.74
40	t	2,3-Dichloroaniline	0.355	0.370	-4.2	119	-0.03	6.43
41	t	Caprolactam	0.128	0.113	11.7	96	-0.03	5.99

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6659-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158152.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.149	-8.0	126	-0.02	5.79
43	t	4-Chloro-3-methylphenol	0.319	0.332	-4.1	116	-0.01	6.09
44	t	2-Methylnaphthalene	0.614	0.618	-0.7	119	-0.03	6.21
45	t	1-Methylnaphthalene	0.649	0.644	0.8	118	-0.03	6.29
46	t	Dimethylnaphthalene	0.635	0.638	-0.5	118	-0.03	6.73
47	I	Acenaphthene-d10	1.000	1.000	0.0	116	-0.03	7.13
48	t	Hexachlorocyclopentadiene	0.246	0.314	-27.6#	131	-0.02	6.33
49	t	2,4,6-Trichlorophenol	0.294	0.343	-16.7	124	-0.01	6.43
50	t	2,4,5-Trichlorophenol	0.334	0.372	-11.4	121	-0.02	6.46
51	S	2-Fluorobiphenyl	1.259	1.285	-2.1	118	-0.02	6.50
52	t	2-Chloronaphthalene	1.168	1.192	-2.1	118	-0.02	6.61
53	t	Biphenyl	1.539	1.559	-1.3	117	-0.02	6.59
54	t	2-Nitroaniline	0.328	0.314	4.3	100	-0.02	6.69
55	t	Dimethylphthalate	1.275	1.309	-2.7	117	-0.02	6.85
56	t	Acenaphthylene	1.873	1.938	-3.5	117	-0.03	6.99
57	t	2,6-Dinitrotoluene	0.252	0.299	-18.7	122	-0.02	6.91
58	t	3-Nitroaniline	0.324	0.352	-8.6	114	-0.02	7.08
59	t	Acenaphthene	1.204	1.195	0.7	115	-0.03	7.16
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	55.747	-11.5	138	-0.02	7.19
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.183	-15.1	124	-0.02	7.25
62	t	Dibenzofuran	1.625	1.601	1.5	114	-0.04	7.34
63	t	2,4-Dinitrotoluene	0.344	0.414	-20.3#	121	-0.03	7.32
64		2,3,4,6-Tetrachlorophenol	0.225	0.262	-16.4	120	-0.03	7.47
65	t	Diethylphthalate	1.220	1.264	-3.6	116	-0.03	7.60
66	t	Fluorene	1.265	1.299	-2.7	117	-0.04	7.73
67	t	4-Chlorophenyl-phenylethe	0.524	0.542	-3.4	117	-0.04	7.73
68	t	4-Nitroaniline	0.336	0.370	-10.1	113	-0.03	7.76
69	I	Phenanthrene-d10	1.000	1.000	0.0	114	-0.04	9.04
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	27.085	-8.3	130	-0.03	7.79
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.575	-4.2	116	-0.03	7.87
72	t	1,2-Diphenylhydrazine	0.976	0.880	9.8	100	-0.04	7.93
73	S	2,4,6-Tribromophenol	0.072	0.081	-12.5	117	-0.04	8.03
74	t	4-Bromophenyl-phenylether	0.178	0.188	-5.6	116	-0.04	8.38
75	t	Hexachlorobenzene	0.188	0.191	-1.6	114	-0.04	8.45
76	t	Pentachlorophenol	0.107	0.130	-21.5#	122	-0.03	8.75
77	t	Phenanthrene	1.222	1.202	1.6	113	-0.04	9.08
78	t	Anthracene	1.185	1.203	-1.5	112	-0.04	9.16
79	t	Carbazole	1.109	1.128	-1.7	112	-0.04	9.44
80	t	Di-n-butylphthalate	1.233	1.380	-11.9	116	-0.03	10.14
81	t	Fluoranthene	1.086	1.154	-6.3	117	-0.03	11.23
82	t	Octadecane	0.449	0.394	12.2	92	-0.04	8.92
83	I	Chrysene-d12	1.000	1.000	0.0	119	-0.05	14.33
84	t	Pyrene	1.410	1.388	1.6	114	-0.09	11.68
85	S	Terphenyl-d14	0.797	0.821	-3.0	119	-0.08	12.11
86	t	Butylbenzylphthalate	0.620	0.668	-7.7	119	-0.06	13.29
88	t	Benzo[a]anthracene	1.165	1.195	-2.6	120	-0.06	14.31
89	t	3,3'-Dichlorobenzidine	0.394	0.439	-11.4	123	-0.04	14.36
90	t	Chrysene	1.248	1.225	1.8	117	-0.06	14.38

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6659-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158152.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	25.000	23.895	4.4	117	0.00	14.69

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	119	-0.06	17.37

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	25.000	24.227	3.1	121	-0.06	16.14

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.342	-9.3	121	0.00	16.61
95	t	Benzo[k]fluoranthene	1.239	1.331	-7.4	122	0.00	16.68
96	t	Benzo[a]pyrene	1.054	1.174	-11.4	120	-0.06	17.26
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.108	-14.7	123	-0.05	19.31
98	t	Dibenz(a,h)acridine	0.839	0.968	-15.4	118	-0.08	18.95
99	t	Dibenz[a,h]anthracene	0.992	1.124	-13.3	122	-0.05	19.38
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.616	-13.7	116	-0.07	16.64
101	t	Benzo[g,h,i]perylene	1.105	1.219	-10.3	121	-0.09	19.74

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Tue Jun 21 14:41:05 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6659-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158153.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6659\F158153.D          Vial: 3
Acq On    : 21 Jun 2016  12:20 pm                   Operator: brittanp
Sample    : cc6645-25                               Inst    : MSF
Misc      : op93756,ef6659                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 14:36:23 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	104	-0.02	4.76
103 t	Benzaldehyde	1.097	1.109	-1.1	100	-0.03	4.44
104 I	Naphthalene-d8b	1.000	1.000	0.0	103	-0.03	5.68
105 t	Hydroquinone	0.303	0.383	-26.4#	122	0.00	5.97
106	Acenaphthene-d10b	1.000	1.000	0.0	103	-0.03	7.13
107	1,2,4,5-Tetrachlorobenzen	0.420	0.452	-7.6	114	-0.02	6.34
108	Phenanthrene-d10b	1.000	1.000	0.0	110	-0.05	9.03
109	Atrazine	0.150	0.186	-24.0#	123	-0.04	8.63
110	Chrysene-d12b	1.000	1.000	0.0	113	-0.06	14.32
111	Benzidine	0.453	0.634	-40.0#	130	-0.05	11.58

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 F157885A.D MF6644.M         Tue Jun 21 14:40:09 2016   RT1
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** EF6660-ICC6660
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158192.D
Project: BMSMC, Building 5 Area, PR

```
                          Response Factor Report  MSF

  Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Wed Jun 22 09:18:04 2016
  Response via : Initial Calibration

  Calibration Files
  2   =158196.D  5   =158195.D  25  =158193.D  80  =158191.D
  100 =158190.D  50  =158192.D  10  =158194.D  1   =158197.D

   Compound         2     5     25    80    100   50    10    1     Avg %RSD
  ---------------------------------------------------------------------------
169) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
170) m-Toluidine  2.401 2.600 2.643 2.670 2.465 2.634 2.484 1.442 2.417  16.80

171) I   Naphthalene-d8       ----------------ISTD---------------------
172) 2-chloroanil 0.443 0.460 0.471 0.479 0.460 0.475 0.443       0.462   3.15
173) 3-chloroanil 0.427 0.447 0.455 0.456 0.431 0.452 0.440 0.259 0.421  15.74
174) Catechol           0.236 0.332 0.394 0.382 0.361 0.267       0.329  19.52
175) 1-chloro-2-n 0.166 0.183 0.199 0.203 0.197 0.197 0.187 0.112 0.181  16.73

176) I   Chrysene-d12c         ----------------ISTD---------------------
177) Bis(2-Ethylh 0.220 0.361 0.541 0.657 0.633 0.588 0.417 0.125 0.443  44.46
          ----- Quadratic regression -----                Coefficient =  0.9982
               Response Ratio = -0.02866 + 0.59570 *A + 0.02429 *A^2
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MF6644AP9.M        Wed Jun 22 09:25:49 2016   RT1
```

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6660-ICV6660
Lab FileID: F158198.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6660\F158198.D          Vial: 10
Acq On    : 22 Jun 2016   4:32 am                   Operator: juliusj
Sample    : icv6660-50                              Inst    : MSF
Misc      : op93756,ef6660                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 22 09:18:04 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.
171	I	Naphthalene-d8c	1.000	1.000	0.0	95	0.00	5.66
172	t	2-chloroaniline	0.462	0.573	-24.0	115	0.00	5.36
173	t	3-chloroaniline	0.421	0.473	-12.4	100	0.00	5.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF F15 MF6644AP9.M Wed Jun 22 09:25:30 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6660-ICV6660
Lab FileID: F158199.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6660\F158199.D          Vial: 11
Acq On    : 22 Jun 2016   5:01 am                   Operator: juliusj
Sample    : icv6660-50                              Inst    : MSF
Misc      : op93756,ef6660                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 22 09:18:04 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.
171 I	Naphthalene-d8c	1.000	1.000	0.0	171	0.00	5.67
175 t	1-chloro-2-nitrobenzene	0.181	0.191	-5.5	166	0.00	5.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF F15 MF6644AP9.M Wed Jun 22 09:25:31 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6660-ICV6660
Lab FileID: F158200.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6660\F158200.D          Vial: 12
Acq On    : 22 Jun 2016   5:31 am                   Operator: juliusj
Sample    : icv6660-50                              Inst    : MSF
Misc      : op93756,ef6660                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 22 09:18:04 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.
169 I	1,4-Dichlorobenzene-d4c	1.000	1.000	0.0	96	0.00	4.74
170 t	m-Toluidine	2.417	1.988	17.7	72	0.00	5.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF F15 MF6644AP9.M Wed Jun 22 09:25:32 2016 RT1

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6660-ICV6660
Lab FileID: F158201.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6660\F158201.D          Vial: 13
Acq On    : 22 Jun 2016   5:59 am                   Operator: juliusj
Sample    : icv6660-50                              Inst    : MSF
Misc      : op93756,ef6660                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 22 09:18:04 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.
171 I	Naphthalene-d8c	1.000	1.000	0.0	118	0.00	5.66
174 t	Catechol	0.329	0.318	3.3	103	0.00	5.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF F15 MF6644AP9.M Wed Jun 22 09:25:33 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158255.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6662\F158255.D          Vial: 2
Acq On    : 23 Jun 2016  10:43 am                   Operator: brittanp
Sample    : cc6644-25                               Inst    : MSF
Misc      : op93756,ef6662                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 23 08:14:01 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	88	-0.05	4.73
2	t	1,4-Dioxane	0.734	0.813	-10.8	94	-0.17	2.29
3	t	Pyridine	1.802	1.519	15.7	67	-0.14	2.63
4	t	N-Nitrosodimethylamine	0.453	0.428	5.5	73	-0.14	2.59
5	S	2-Fluorophenol	1.490	1.362	8.6	75	-0.13	3.76
6	t	Indene	2.799	2.482	11.3	76	-0.05	4.92
7	t	Cumene	3.811	3.299	13.4	75	-0.08	4.13
8	S	Phenol-d5	1.928	1.667	13.5	72	-0.02	4.49
9	t	Phenol	2.176	1.955	10.2	75	-0.02	4.49
10	t	Aniline	2.634	1.883	28.5#	59	-0.06	4.49
11	t	bis(2-Chloroethyl)ether	1.604	1.331	17.0	72	-0.06	4.53
12	t	2-Chlorophenol	1.589	1.511	4.9	81	-0.05	4.58
13	t	Decane	1.237	1.261	-1.9	88	-0.06	4.60
14	t	1,3-Dichlorobenzene	1.744	1.636	6.2	82	-0.05	4.69
15	t	1,4-Dichlorobenzene	1.773	1.666	6.0	82	-0.06	4.74
16	t	Benzyl alcohol	1.042	0.912	12.5	73	-0.04	4.84
17	t	1,2-Dichlorobenzene	1.662	1.583	4.8	84	-0.05	4.85
18	t	Acetophenone	2.244	1.907	15.0	73	-0.04	5.02
19	t	2-Methylphenol	1.503	1.321	12.1	73	-0.02	4.93
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.463	12.8	75	-0.05	4.93
21	t	3&4-Methylphenol	1.582	1.413	10.7	74	-0.02	5.04
22		n-Nitroso-di-n-propylamin	1.183	0.959	18.9	68	-0.04	5.02
23	t	Hexachloroethane	0.476	0.514	-8.0	92	-0.05	5.10
24	I	Naphthalene-d8	1.000	1.000	0.0	79	-0.01	5.65
25	S	Nitrobenzene-d5	0.400	0.371	7.3	70	-0.03	5.13
26	t	Nitrobenzene	0.439	0.394	10.3	69	-0.02	5.15
27	t	Quinoline	0.787	0.772	1.9	76	0.00	5.90
28	t	Isophorone	0.737	0.667	9.5	68	-0.02	5.32
29	t	2-Nitrophenol	0.173	0.209	-20.8#	85	-0.02	5.37
30	t	2,4-Dimethylphenol	0.374	0.335	10.4	66	0.00	5.41
31	t	Benzoic acid	0.261	0.264	-1.1	79	0.00	5.48
32	t	bis(2-Chloroethoxy)methan	0.465	0.416	10.5	69	0.00	5.47
33	t	2,4-Dichlorophenol	0.278	0.321	-15.5	85	0.00	5.56
34		2,6-Dichlorophenol	0.277	0.320	-15.5	85	0.00	5.71
35		1,3,5-Trichlorobenzene	0.322	0.355	-10.2	87	-0.02	5.38
36	t	1,2,4-Trichlorobenzene	0.309	0.336	-8.7	86	-0.01	5.60
37		1,2,3-Trichlorobenzene	0.307	0.337	-9.8	87	0.00	5.76
38	t	Naphthalene	1.161	1.124	3.2	76	-0.01	5.66
39	t	4-Chloroaniline	0.472	0.431	8.7	69	0.00	5.71
40	t	2,3-Dichloroaniline	0.355	0.380	-7.0	81	0.00	6.40
41	t	Caprolactam	0.128	0.139	-8.6	78	-0.03	5.95

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158255.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.158	-14.5	89	0.00	5.75
43	t	4-Chloro-3-methylphenol	0.319	0.312	2.2	73	0.02	6.06
44	t	2-Methylnaphthalene	0.614	0.623	-1.5	79	-0.01	6.17
45	t	1-Methylnaphthalene	0.649	0.656	-1.1	79	-0.01	6.25
46	t	Dimethylnaphthalene	0.635	0.667	-5.0	81	-0.02	6.68
47	I	Acenaphthene-d10	1.000	1.000	0.0	80	-0.09	7.07
48	t	Hexachlorocyclopentadiene	0.246	0.303	-23.2#	87	-0.07	6.28
49	t	2,4,6-Trichlorophenol	0.294	0.360	-22.4#	89	0.00	6.40
50	t	2,4,5-Trichlorophenol	0.334	0.384	-15.0	86	-0.06	6.44
51	S	2-Fluorobiphenyl	1.259	1.307	-3.8	83	-0.07	6.45
52	t	2-Chloronaphthalene	1.168	1.192	-2.1	81	-0.07	6.56
53	t	Biphenyl	1.539	1.551	-0.8	80	-0.07	6.54
54	t	2-Nitroaniline	0.328	0.339	-3.4	74	-0.06	6.65
55	t	Dimethylphthalate	1.275	1.287	-0.9	79	-0.07	6.81
56	t	Acenaphthylene	1.873	1.937	-3.4	80	-0.08	6.94
57	t	2,6-Dinitrotoluene	0.252	0.290	-15.1	82	-0.07	6.87
58	t	3-Nitroaniline	0.324	0.343	-5.9	76	-0.07	7.04
59	t	Acenaphthene	1.204	1.203	0.1	80	-0.08	7.11
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	51.005	-2.0	86	-0.07	7.14
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.149	6.3	69	-0.04	7.23
62	t	Dibenzofuran	1.625	1.635	-0.6	80	-0.09	7.29
63	t	2,4-Dinitrotoluene	0.344	0.400	-16.3	81	-0.08	7.27
64		2,3,4,6-Tetrachlorophenol	0.225	0.287	-27.6#	91	-0.08	7.43
65	t	Diethylphthalate	1.220	1.234	-1.1	78	-0.09	7.54
66	t	Fluorene	1.265	1.306	-3.2	81	-0.10	7.68
67	t	4-Chlorophenyl-phenylethe	0.524	0.560	-6.9	83	-0.09	7.68
68	t	4-Nitroaniline	0.336	0.347	-3.3	73	-0.08	7.70
69	I	Phenanthrene-d10	1.000	1.000	0.0	82	-0.11	8.97
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	25.151	-0.6	86	-0.09	7.73
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.563	-2.0	81	-0.09	7.82
72	t	1,2-Diphenylhydrazine	0.976	0.803	17.7	65	-0.10	7.87
73	S	2,4,6-Tribromophenol	0.072	0.089	-23.6#	93	-0.09	7.98
74	t	4-Bromophenyl-phenylether	0.178	0.192	-7.9	86	-0.10	8.31
75	t	Hexachlorobenzene	0.188	0.196	-4.3	84	-0.11	8.38
76	t	Pentachlorophenol	0.107	0.126	-17.8	85	-0.09	8.69
77	t	Phenanthrene	1.222	1.196	2.1	81	-0.11	9.01
78	t	Anthracene	1.185	1.199	-1.2	80	-0.11	9.09
79	t	Carbazole	1.109	1.131	-2.0	81	-0.10	9.38
80	t	Di-n-butylphthalate	1.233	1.322	-7.2	80	-0.10	10.07
81	t	Fluoranthene	1.086	1.158	-6.6	85	-0.11	11.16
82	t	Octadecane	0.449	0.476	-6.0	80	-0.10	8.86
83	I	Chrysene-d12	1.000	1.000	0.0	86	-0.13	14.25
84	t	Pyrene	1.410	1.418	-0.6	84	-0.17	11.60
85	S	Terphenyl-d14	0.797	0.819	-2.8	86	-0.15	12.03
86	t	Butylbenzylphthalate	0.620	0.650	-4.8	84	-0.13	13.21
87		Butyl stearate		----------NA----------				
88	t	Benzo[a]anthracene	1.165	1.171	-0.5	86	-0.13	14.23
89	t	3,3'-Dichlorobenzidine	0.394	0.432	-9.6	88	-0.12	14.28
90	t	Chrysene	1.248	1.203	3.6	83	-0.13	14.31

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158255.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	25.000	23.867	4.5	85	-0.07	14.62

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	86	-0.07	17.29

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	25.000	25.518	-2.1	92	-0.07	16.07

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.323	-7.7	86	-0.02	16.53
95	t	Benzo[k]fluoranthene	1.239	1.307	-5.5	86	-0.03	16.59
96	t	Benzo[a]pyrene	1.054	1.181	-12.0	87	-0.14	17.18
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.111	-15.0	89	-0.14	19.23
98	t	Dibenz(a,h)acridine	0.839	0.983	-17.2	87	-0.17	18.87
99	t	Dibenz[a,h]anthracene	0.992	1.129	-13.8	89	-0.13	19.29
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.596	-10.0	81	-0.15	16.56
101	t	Benzo[g,h,i]perylene	1.105	1.233	-11.6	88	-0.17	19.65

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Thu Jun 23 15:26:29 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158256.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6662\F158256.D          Vial: 3
Acq On    : 23 Jun 2016  11:12 am                   Operator: brittanp
Sample    : cc6645-25                               Inst    : MSF
Misc      : op93756,ef6662                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 23 08:14:01 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	78	-0.06	4.72
103 t	Benzaldehyde	1.097	1.013	7.7	69	-0.07	4.40
104 I	Naphthalene-d8b	1.000	1.000	0.0	73	-0.06	5.65
105 t	Hydroquinone	0.303	0.368	-21.5#	84	-0.03	5.96
106	Acenaphthene-d10b	1.000	1.000	0.0	76	-0.09	7.07
107	1,2,4,5-Tetrachlorobenzen	0.420	0.472	-12.4	89	-0.06	6.29
108	Phenanthrene-d10b	1.000	1.000	0.0	83	-0.11	8.97
109	Atrazine	0.150	0.180	-20.0	89	-0.10	8.57
110	Chrysene-d12b	1.000	1.000	0.0	86	-0.14	14.24
111	Benzidine	0.453	0.494	-9.1	77	-0.12	11.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Thu Jun 23 15:26:30 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158257A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D          Vial: 4
Acq On    : 23 Jun 2016  12:32 pm                    Operator: brittanp
Sample    : cc6647-25                                Inst    : MSF
Misc      : op93756,ef6662                           Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 23 15:30:18 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	73	0.00	4.73
103	t	2-Picoline	1.892	1.520	19.7	61	0.00	3.26
104	t	Pentachloroethane	0.565	0.504	10.8	68	0.00	4.52
105	t	Methyl methanesulfonate	0.869	0.684	21.3#	60	-0.01	3.61
106	t	N-Nitrosodiethylamine	0.804	0.640	20.4#	60	-0.01	3.92
107	t	N-Nitrosomethylethylamine	0.465	0.507	-9.0	85	-0.02	3.35
108	t	Ethyl methanesulfonate	1.228	0.980	20.2#	61	-0.01	4.15
109	t	N-Nitrosopyrrolidine	0.410	0.438	-6.8	85	-0.02	5.01
110	t	N-Nitrosomorpholine	0.641	0.613	4.4	75	-0.01	5.04
111	t	o-Toluidine	2.540	1.985	21.9#	58	0.00	5.05
112	I	Naphthalene-d8A	1.000	1.000	0.0	71	0.00	5.65
113	t	O,O,O-Triethyl phosphorot	0.158	0.155	1.9	70	-0.01	5.44
114	t	N-Nitrosopiperidine	0.149	0.173	-16.1	87	0.00	5.26
115	t	A,A-Dimethylphenethylamin	0.628	0.678	-8.0	79	0.17	5.75
116	t	Hexachloropropene	0.185	0.173	6.5	67	0.00	5.73
117	t	p-Phenylenediamine	0.160	0.045#	71.9#	20#	0.00	5.96
118	t	N-Nitrosodi-n-butylamine	0.249	0.213	14.5	63	0.00	5.94
119	t	Safrole	0.269	0.249	7.4	66	-0.01	6.10
120	t	Isosafrole	0.224	0.194	13.4	62	0.00	6.51
121	I	Acenaphthene-d10A	1.000	1.000	0.0	75	0.00	7.08
122	t	Thionazin	0.146	0.135	7.5	68	-0.01	7.63
123	t	Tetraethyl dithiopyrophos	0.130	0.127	2.3	69	0.00	8.04
124	t	Phorate	0.772	0.742	3.9	70	-0.01	8.22
125	t	Phenacetin	0.588	0.566	3.7	67	-0.01	8.24
126	t	1,4-Naphthoquinone	0.360	0.339	5.8	63	0.00	6.72
127	t	m-Dinitrobenzene	0.167	0.173	-3.6	73	0.00	6.84
128	t	Pentachlorobenzene	0.399	0.379	5.0	74	0.00	7.24
129	t	1-Naphthylamine	0.945	0.780	17.5	63	0.00	7.38
130	t	2-Naphthylamine	1.145	0.895	21.8#	58	0.00	7.46
131	t	5-Nitro-o-toluidine	0.328	0.334	-1.8	71	0.00	7.69
132	I	Phenanthrene-d10A	1.000	1.000	0.0	80	0.00	8.98
133	t	Disulfoton	0.415	0.355	14.5	62	0.00	9.01
134	t	Dinoseb	0.126	0.133	-5.6	78	0.00	8.99
135	t	Dimethoate	0.302	0.299	1.0	71	-0.01	8.46
136	t	4-Aminobiphenyl	0.385	0.264	31.4#	54	0.00	8.70
137	t	Methyl parathion	0.186	0.180	3.2	68	0.00	9.64
138	t	Parathion	0.154	0.141	8.4	67	0.00	10.39
139	t	Diphenylamine	0.620	0.536	13.5	69	0.00	7.83

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158257A.D
Project: BMSMC, Building 5 Area, PR

140	t	Isodrin	0.120	0.109	9.2	72	-0.01	10.86
141	t	Diallate	0.065	0.276	-324.6#	342#	0.00	8.21
142	t	Pentachloronitrobenzene	0.032	0.031#	3.1	74	-0.01	8.70
143	t	Pronamide	0.308	0.294	4.5	69	0.00	8.81
144	t	4-Nitroquinoline 1-oxide	0.076	0.086	-13.2	70	-0.02	10.39
145	t	Methapyriline	0.260	0.320	-23.1#	86	0.00	10.59
146	t	sym-Trinitrobenzene	0.071	0.064	9.9	72	0.00	8.17
147	I	Chrysene-d12A	1.000	1.000	0.0	83	0.00	14.25
148	t	Aramite	0.037	0.037#	0.0	81	-0.01	12.27
149	t	p-(Dimethylamine)azobenze	0.420	0.354	15.7	65	0.00	12.36
150	t	Kepone	0.071	0.052	26.8#	61	-0.02	13.06
151	t	Famphur	0.347	0.336	3.2	74	-0.01	13.05
152	t	2-Acetylaminofluorene	0.476	0.466	2.1	77	-0.01	13.64
153	t	3,3'-Dimethylbenzidine	0.364	0.333	8.5	75	-0.01	13.11
154	t	Chlorobenzilate	0.279	0.283	-1.4	74	0.00	12.50
155	I	Perylene-d12A	1.000	1.000	0.0	83	-0.01	17.29
156	t	4,4-Methylene-bis-(2-chlo	0.110	0.111	-0.9	75	-0.01	14.32
157	t	3-Methylcholanthrene	0.554	0.531	4.2	74	-0.03	17.89
158	t	Hexachlorophene	0.041	0.014#	65.9#	32#	-0.01	17.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF F15 MF6644AP9.M Thu Jun 23 15:36:26 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6660
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158258.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6662\F158258.D          Vial: 5
Acq On    : 23 Jun 2016   1:01 pm                   Operator: brittanp
Sample    : cc6660-25                               Inst    : MSF
Misc      : op93756,ef6662                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 23 15:30:18 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.
169	I	1,4-Dichlorobenzene-d4c	1.000	1.000	0.0	53	-0.01	4.72
170	t	m-Toluidine	2.417	2.376	1.7	48#	0.00	5.08
171	I	Naphthalene-d8c	1.000	1.000	0.0	51	0.00	5.65
172	t	2-chloroaniline	0.462	0.473	-2.4	51	0.00	5.35
173	t	3-chloroaniline	0.421	0.448	-6.4	50	0.00	5.69
174	t	Catechol	0.329	0.307	6.7	47#	0.04	5.64
175	t	1-chloro-2-nitrobenzene	0.181	0.200	-10.5	51	0.00	5.90
176	I	Chrysene-d12c	1.000	1.000	0.0	59	-0.01	14.24
			True	Calc.	% Drift			
177	t	Bis(2-Ethylhexyl)adipate	25.000	22.527	9.9	55	-0.01	13.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF F15 MF6644AP9.M Thu Jun 23 15:36:27 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6662-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158259.D
Project: BMSMC, Building 5 Area, PR

```
                    Evaluate Continuing Calibration Report

  Data File : C:\MSDCHEM\1\DATA\EF6662\F158259.D          Vial: 6
  Acq On    : 23 Jun 2016   1:30 pm                   Operator: brittanp
  Sample    : cc6644-5                                Inst    : MSF
  Misc      : op93756,ef6662                          Multiplr: 1.00
  MS Integration Params: LSCINT.P

  Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
  Title        : Semi Volatile Extractables by GC/MS
  Last Update  : Thu Jun 23 15:30:18 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.
  ---------------------------------------------------------------------------
180     Chrysene-d12B              1.000   1.000      0.0  100  -0.02   14.24
181     2,3,7,8-tcdd               0.113   0.113      0.0  100  -0.03   13.39
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     COPY OF F15 MF6644AP9.M       Thu Jun 23 15:43:55 2016   RT1
```

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6663-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158290.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6663\F158290.D          Vial: 2
Acq On    : 24 Jun 2016   7:56 am                   Operator: brittanp
Sample    : cc6644-50                               Inst    : MSF
Misc      : op93756,ef6663                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 24 11:02:23 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	157	0.00	4.72
2	t	1,4-Dioxane	0.734	0.593	19.2	131	-0.14	2.29
3	t	Pyridine	1.802	1.525	15.4	126	-0.12	2.62
4	t	N-Nitrosodimethylamine	0.453	0.479	-5.7	150	-0.11	2.58
5	S	2-Fluorophenol	1.490	1.417	4.9	146	-0.08	3.76
6	t	Indene	2.799	2.295	18.0	133	0.00	4.91
7	t	Cumene	3.811	3.065	19.6	131	-0.03	4.12
8	S	Phenol-d5	1.928	1.620	16.0	129	0.04	4.49
9	t	Phenol	2.176	1.858	14.6	134	0.04	4.50
10	t	Aniline	2.634	1.331	49.5#	79	0.00	4.48
11	t	bis(2-Chloroethyl)ether	1.604	1.298	19.1	130	0.00	4.53
12	t	2-Chlorophenol	1.589	1.385	12.8	136	0.00	4.58
13	t	Decane	1.237	1.136	8.2	154	0.00	4.59
14	t	1,3-Dichlorobenzene	1.744	1.535	12.0	143	0.00	4.68
15	t	1,4-Dichlorobenzene	1.773	1.538	13.3	141	0.00	4.73
16	t	Benzyl alcohol	1.042	0.847	18.7	125	0.01	4.83
17	t	1,2-Dichlorobenzene	1.662	1.416	14.8	137	0.00	4.85
18	t	Acetophenone	2.244	1.730	22.9#	125	0.02	5.02
19	t	2-Methylphenol	1.503	1.231	18.1	126	0.04	4.93
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.434	18.3	133	0.00	4.92
21	t	3&4-Methylphenol	1.582	1.345	15.0	131	0.04	5.04
22		n-Nitroso-di-n-propylamin	1.183	0.904	23.6#	120	0.02	5.02
23	t	Hexachloroethane	0.476	0.481	-1.1	158	0.01	5.09
24	I	Naphthalene-d8	1.000	1.000	0.0	149	0.00	5.64
25	S	Nitrobenzene-d5	0.400	0.358	10.5	130	-0.02	5.13
26	t	Nitrobenzene	0.439	0.371	15.5	125	-0.02	5.14
27	t	Quinoline	0.787	0.723	8.1	137	0.00	5.91
28	t	Isophorone	0.737	0.605	17.9	118	-0.02	5.31
29	t	2-Nitrophenol	0.173	0.186	-7.5	142	-0.01	5.37
30	t	2,4-Dimethylphenol	0.374	0.305	18.4	116	0.01	5.41
31	t	Benzoic acid	0.261	0.305	-16.9	164	0.04	5.51
32	t	bis(2-Chloroethoxy)methan	0.465	0.390	16.1	127	0.00	5.47
33	t	2,4-Dichlorophenol	0.278	0.294	-5.8	148	0.01	5.56
34		2,6-Dichlorophenol	0.277	0.273	1.4	141	0.01	5.71
35		1,3,5-Trichlorobenzene	0.322	0.296	8.1	142	-0.01	5.37
36	t	1,2,4-Trichlorobenzene	0.309	0.300	2.9	147	0.00	5.60
37		1,2,3-Trichlorobenzene	0.307	0.294	4.2	144	0.00	5.76
38	t	Naphthalene	1.161	1.009	13.1	134	0.00	5.66
39	t	4-Chloroaniline	0.472	0.339	28.2#	106	0.00	5.70
40	t	2,3-Dichloroaniline	0.355	0.319	10.1	134	0.00	6.39
41	t	Caprolactam	0.128	0.142	-10.9	152	0.00	5.97

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6663-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158290.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.138	0.0	150	0.00	5.74
43	t	4-Chloro-3-methylphenol	0.319	0.292	8.5	130	0.04	6.07
44	t	2-Methylnaphthalene	0.614	0.561	8.6	137	0.00	6.16
45	t	1-Methylnaphthalene	0.649	0.575	11.4	134	0.00	6.24
46	t	Dimethylnaphthalene	0.635	0.584	8.0	136	0.00	6.67
47	I	Acenaphthene-d10	1.000	1.000	0.0	154	0.00	7.07
48	t	Hexachlorocyclopentadiene	0.246	0.261	-6.1	145	0.00	6.28
49	t	2,4,6-Trichlorophenol	0.294	0.302	-2.7	147	0.07	6.39
50	t	2,4,5-Trichlorophenol	0.334	0.361	-8.1	154	0.01	6.43
51	S	2-Fluorobiphenyl	1.259	1.144	9.1	142	0.01	6.45
52	t	2-Chloronaphthalene	1.168	1.061	9.2	141	0.00	6.56
53	t	Biphenyl	1.539	1.352	12.2	138	0.01	6.54
54	t	2-Nitroaniline	0.328	0.330	-0.6	141	0.02	6.65
55	t	Dimethylphthalate	1.275	1.184	7.1	144	0.00	6.80
56	t	Acenaphthylene	1.873	1.767	5.7	144	0.00	6.93
57	t	2,6-Dinitrotoluene	0.252	0.288	-14.3	152	0.01	6.87
58	t	3-Nitroaniline	0.324	0.325	-0.3	137	0.02	7.04
59	t	Acenaphthene	1.204	1.077	10.5	141	0.00	7.11
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	116.888	-16.9	181	0.01	7.14
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.156	1.9	134	0.00	7.23
62	t	Dibenzofuran	1.625	1.475	9.2	143	0.00	7.28
63	t	2,4-Dinitrotoluene	0.344	0.398	-15.7	152	0.00	7.27
64		2,3,4,6-Tetrachlorophenol	0.225	0.270	-20.0#	161	0.00	7.42
65	t	Diethylphthalate	1.220	1.163	4.7	142	0.00	7.54
66	t	Fluorene	1.265	1.125	11.1	138	0.00	7.67
67	t	4-Chlorophenyl-phenylethe	0.524	0.472	9.9	141	0.00	7.67
68	t	4-Nitroaniline	0.336	0.335	0.3	134	0.02	7.71
69	I	Phenanthrene-d10	1.000	1.000	0.0	160	0.00	8.96
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	52.920	-5.8	169	0.01	7.73
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.522	5.4	149	0.01	7.82
72	t	1,2-Diphenylhydrazine	0.976	0.763	21.8#	125	0.00	7.86
73	S	2,4,6-Tribromophenol	0.072	0.088	-22.2#	178	0.00	7.97
74	t	4-Bromophenyl-phenylether	0.178	0.183	-2.8	164	0.00	8.31
75	t	Hexachlorobenzene	0.188	0.182	3.2	159	0.00	8.38
76	t	Pentachlorophenol	0.107	0.127	-18.7	165	0.01	8.68
77	t	Phenanthrene	1.222	1.092	10.6	147	0.00	9.00
78	t	Anthracene	1.185	1.093	7.8	146	0.00	9.08
79	t	Carbazole	1.109	1.029	7.2	144	0.02	9.37
80	t	Di-n-butylphthalate	1.233	1.288	-4.5	152	0.02	10.07
81	t	Fluoranthene	1.086	1.117	-2.9	160	0.03	11.15
82	t	Octadecane	0.449	0.430	4.2	147	0.00	8.85
83	I	Chrysene-d12	1.000	1.000	0.0	168	0.00	14.25
84	t	Pyrene	1.410	1.352	4.1	158	-0.06	11.59
85	S	Terphenyl-d14	0.797	0.798	-0.1	161	-0.04	12.03
86	t	Butylbenzylphthalate	0.620	0.660	-6.5	156	0.00	13.21
88	t	Benzo[a]anthracene	1.165	1.186	-1.8	167	0.00	14.23
89	t	3,3'-Dichlorobenzidine	0.394	0.430	-9.1	165	0.02	14.28
90	t	Chrysene	1.248	1.154	7.5	156	0.00	14.31

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6663-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158290.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	50.000	47.990	4.0	160	-0.03	14.61

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	177	0.00	17.29

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	50.000	49.816	0.4	174	-0.02	16.06

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.234	-0.5	165	0.05	16.53
95	t	Benzo[k]fluoranthene	1.239	1.214	2.0	163	0.00	16.60
96	t	Benzo[a]pyrene	1.054	1.109	-5.2	165	-0.07	17.17
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.080	-11.8	175	-0.05	19.23
98	t	Dibenz(a,h)acridine	0.839	0.953	-13.6	174	-0.08	18.87
99	t	Dibenz[a,h]anthracene	0.992	1.073	-8.2	172	-0.04	19.30
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.522	3.7	146	-0.07	16.56
101	t	Benzo[g,h,i]perylene	1.105	1.163	-5.2	172	-0.07	19.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157884A.D MF6644.M Fri Jun 24 11:05:37 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6663-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158291.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6663\F158291.D          Vial: 3
Acq On    : 24 Jun 2016   8:27 am                   Operator: brittanp
Sample    : cc6645-25                               Inst    : MSF
Misc      : op93756,ef6663                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jun 24 11:02:23 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	122	0.00	4.72
103 t	Benzaldehyde	1.097	1.039	5.3	110	-0.02	4.40
104 I	Naphthalene-d8b	1.000	1.000	0.0	116	0.00	5.64
105 t	Hydroquinone	0.303	0.405	-33.7#	145	0.04	5.96
106	Acenaphthene-d10b	1.000	1.000	0.0	122	0.00	7.07
107	1,2,4,5-Tetrachlorobenzen	0.420	0.469	-11.7	141	0.00	6.29
108	Phenanthrene-d10b	1.000	1.000	0.0	137	0.00	8.96
109	Atrazine	0.150	0.192	-28.0#	158	0.00	8.56
110	Chrysene-d12b	1.000	1.000	0.0	146	-0.01	14.23
111	Benzidine	0.453	0.503	-11.0	133	-0.02	11.50

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 F157885A.D MF6644.M         Fri Jun 24 11:04:29 2016   RT1
```

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6666-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158368.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6666\F158368.D          Vial: 2
Acq On    : 27 Jun 2016   7:35 am                   Operator: brittanp
Sample    : cc6644-25                               Inst    : MSF
Misc      : op93756,ef6666,1000,,,1,1               Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 27 12:19:02 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	133	-0.01	4.68
2	t	1,4-Dioxane	0.734	0.714	2.7	124	0.00	2.24
3	t	Pyridine	1.802	1.853	-2.8	124	-0.01	2.57
4	t	N-Nitrosodimethylamine	0.453	0.492	-8.6	126	-0.01	2.53
5	S	2-Fluorophenol	1.490	1.562	-4.8	130	-0.02	3.70
6	t	Indene	2.799	2.772	1.0	127	-0.01	4.87
7	t	Cumene	3.811	3.804	0.2	130	-0.01	4.08
8	S	Phenol-d5	1.928	1.955	-1.4	128	-0.02	4.43
9	t	Phenol	2.176	2.334	-7.3	136	-0.02	4.44
10	t	Aniline	2.634	2.200	16.5	105	-0.01	4.44
11	t	bis(2-Chloroethyl)ether	1.604	1.558	2.9	127	-0.01	4.49
12	t	2-Chlorophenol	1.589	1.633	-2.8	131	-0.01	4.53
13	t	Decane	1.237	1.138	8.0	120	0.00	4.56
14	t	1,3-Dichlorobenzene	1.744	1.727	1.0	130	-0.01	4.64
15	t	1,4-Dichlorobenzene	1.773	1.761	0.7	131	-0.01	4.69
16	t	Benzyl alcohol	1.042	1.062	-1.9	128	-0.01	4.79
17	t	1,2-Dichlorobenzene	1.662	1.642	1.2	131	-0.01	4.80
18	t	Acetophenone	2.244	2.197	2.1	126	-0.01	4.97
19	t	2-Methylphenol	1.503	1.475	1.9	123	-0.02	4.87
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.508	4.3	124	-0.01	4.88
21	t	3&4-Methylphenol	1.582	1.609	-1.7	127	-0.02	4.99
22		n-Nitroso-di-n-propylamin	1.183	1.176	0.6	125	-0.02	4.97
23	t	Hexachloroethane	0.476	0.516	-8.4	139	-0.01	5.05
24	I	Naphthalene-d8	1.000	1.000	0.0	128	-0.01	5.60
25	S	Nitrobenzene-d5	0.400	0.429	-7.2	133	-0.01	5.09
26	t	Nitrobenzene	0.439	0.457	-4.1	130	-0.02	5.10
27	t	Quinoline	0.787	0.792	-0.6	127	-0.01	5.86
28	t	Isophorone	0.737	0.767	-4.1	128	-0.02	5.27
29	t	2-Nitrophenol	0.173	0.207	-19.7	138	-0.01	5.33
30	t	2,4-Dimethylphenol	0.374	0.366	2.1	118	-0.01	5.36
31	t	Benzoic acid	0.261	0.320	-22.6#	157	-0.04	5.44
32	t	bis(2-Chloroethoxy)methan	0.465	0.467	-0.4	126	-0.01	5.42
33	t	2,4-Dichlorophenol	0.278	0.306	-10.1	133	-0.01	5.51
34		2,6-Dichlorophenol	0.277	0.299	-7.9	130	-0.01	5.66
35		1,3,5-Trichlorobenzene	0.322	0.331	-2.8	132	-0.01	5.33
36	t	1,2,4-Trichlorobenzene	0.309	0.317	-2.6	133	0.00	5.56
37		1,2,3-Trichlorobenzene	0.307	0.312	-1.6	131	0.00	5.72
38	t	Naphthalene	1.161	1.151	0.9	126	-0.01	5.62
39	t	4-Chloroaniline	0.472	0.442	6.4	115	-0.01	5.66
40	t	2,3-Dichloroaniline	0.355	0.368	-3.7	128	-0.01	6.34
41	t	Caprolactam	0.128	0.138	-7.8	127	-0.03	5.91

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6666-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158368.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.148	-7.2	136	-0.01	5.70
43	t	4-Chloro-3-methylphenol	0.319	0.350	-9.7	133	-0.02	6.01
44	t	2-Methylnaphthalene	0.614	0.627	-2.1	130	-0.01	6.12
45	t	1-Methylnaphthalene	0.649	0.658	-1.4	130	-0.01	6.19
46	t	Dimethylnaphthalene	0.635	0.665	-4.7	132	-0.02	6.62
47	I	Acenaphthene-d10	1.000	1.000	0.0	130	-0.01	7.02
48	t	Hexachlorocyclopentadiene	0.246	0.305	-24.0#	142	-0.01	6.24
49	t	2,4,6-Trichlorophenol	0.294	0.345	-17.3	139	-0.01	6.34
50	t	2,4,5-Trichlorophenol	0.334	0.383	-14.7	139	-0.02	6.37
51	S	2-Fluorobiphenyl	1.259	1.274	-1.2	131	0.00	6.41
52	t	2-Chloronaphthalene	1.168	1.187	-1.6	131	-0.01	6.51
53	t	Biphenyl	1.539	1.539	0.0	130	-0.01	6.49
54	t	2-Nitroaniline	0.328	0.377	-14.9	135	-0.02	6.60
55	t	Dimethylphthalate	1.275	1.324	-3.8	133	-0.02	6.75
56	t	Acenaphthylene	1.873	1.963	-4.8	133	-0.02	6.88
57	t	2,6-Dinitrotoluene	0.252	0.310	-23.0#	142	-0.02	6.81
58	t	3-Nitroaniline	0.324	0.363	-12.0	132	-0.02	6.97
59	t	Acenaphthene	1.204	1.192	1.0	128	-0.02	7.05
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	59.632	-19.3	166	-0.02	7.07
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.195	-22.6#	148	-0.03	7.15
62	t	Dibenzofuran	1.625	1.600	1.5	128	-0.02	7.22
63	t	2,4-Dinitrotoluene	0.344	0.427	-24.1#	140	-0.02	7.21
64		2,3,4,6-Tetrachlorophenol	0.225	0.282	-25.3#	145	-0.02	7.36
65	t	Diethylphthalate	1.220	1.300	-6.6	134	-0.02	7.47
66	t	Fluorene	1.265	1.311	-3.6	132	-0.02	7.61
67	t	4-Chlorophenyl-phenylethe	0.524	0.545	-4.0	132	-0.02	7.61
68	t	4-Nitroaniline	0.336	0.386	-14.9	132	-0.03	7.64
69	I	Phenanthrene-d10	1.000	1.000	0.0	133	-0.02	8.88
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	27.824	-11.3	155	-0.02	7.67
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.572	-3.6	134	-0.02	7.75
72	t	1,2-Diphenylhydrazine	0.976	1.000	-2.5	131	-0.02	7.80
73	S	2,4,6-Tribromophenol	0.072	0.087	-20.8#	147	-0.02	7.90
74	t	4-Bromophenyl-phenylether	0.178	0.194	-9.0	140	-0.02	8.24
75	t	Hexachlorobenzene	0.188	0.196	-4.3	135	-0.02	8.31
76	t	Pentachlorophenol	0.107	0.139	-29.9#	151	-0.03	8.60
77	t	Phenanthrene	1.222	1.203	1.6	132	-0.02	8.92
78	t	Anthracene	1.185	1.205	-1.7	130	-0.03	9.00
79	t	Carbazole	1.109	1.155	-4.1	134	-0.03	9.29
80	t	Di-n-butylphthalate	1.233	1.451	-17.7	142	-0.02	9.99
81	t	Fluoranthene	1.086	1.195	-10.0	141	-0.03	11.05
82	t	Octadecane	0.449	0.480	-6.9	130	-0.02	8.78
83	I	Chrysene-d12	1.000	1.000	0.0	142	-0.03	14.15
84	t	Pyrene	1.410	1.413	-0.2	139	-0.03	11.50
85	S	Terphenyl-d14	0.797	0.834	-4.6	145	-0.03	11.93
86	t	Butylbenzylphthalate	0.620	0.706	-13.9	150	-0.03	13.11
87		Butyl stearate		----------NA----------				
88	t	Benzo[a]anthracene	1.165	1.232	-5.8	148	-0.03	14.13
89	t	3,3'-Dichlorobenzidine	0.394	0.452	-14.7	151	-0.03	14.18
90	t	Chrysene	1.248	1.251	-0.2	143	-0.04	14.20

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6666-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158368.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	25.000	25.823	-3.3	152	-0.03	14.52

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	146	-0.03	17.19

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	25.000	26.568	-6.3	164	-0.03	15.97

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.344	-9.4	148	-0.02	16.43
95	t	Benzo[k]fluoranthene	1.239	1.335	-7.7	149	-0.02	16.49
96	t	Benzo[a]pyrene	1.054	1.204	-14.2	150	-0.04	17.06
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.122	-16.1	152	-0.04	19.12
98	t	Dibenz(a,h)acridine	0.839	1.008	-20.1#	151	-0.04	18.76
99	t	Dibenz[a,h]anthracene	0.992	1.131	-14.0	150	-0.03	19.19
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.612	-12.9	141	-0.04	16.45
101	t	Benzo[g,h,i]perylene	1.105	1.238	-12.0	150	-0.04	19.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Mon Jun 27 12:20:15 2016 RT1

6.7.55
6

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6666-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158369A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6666\F158369A.D          Vial: 3
Acq On    : 27 Jun 2016   8:44 am                    Operator: brittanp
Sample    : cc6645-25                                Inst    : MSF
Misc      : op93756,ef6666,1000,,,1,1                Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 27 12:19:02 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	112	-0.01	4.68
103 t	Benzaldehyde	1.097	1.065	2.9	103	-0.06	4.35
104 I	Naphthalene-d8b	1.000	1.000	0.0	110	-0.02	5.60
105 t	Hydroquinone	0.303	0.380	-25.4#	129	-0.02	5.90
106	Acenaphthene-d10b	1.000	1.000	0.0	113	-0.02	7.01
107	1,2,4,5-Tetrachlorobenzen	0.420	0.446	-6.2	124	-0.04	6.25
108	Phenanthrene-d10b	1.000	1.000	0.0	121	-0.02	8.88
109	Atrazine	0.150	0.183	-22.0#	133	-0.07	8.49
110	Chrysene-d12b	1.000	1.000	0.0	126	-0.04	14.14
111	Benzidine	0.453	0.536	-18.3	122	0.00	11.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Mon Jun 27 12:20:16 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6667-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158395.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6667\F158395.D Vial: 2
Acq On : 27 Jun 2016 11:12 pm Operator: juliusj
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 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	147	-0.03	4.66
2	t	1,4-Dioxane	0.734	0.645	12.1	133	-0.02	2.22
3	t	Pyridine	1.802	1.657	8.0	127	-0.02	2.55
4	t	N-Nitrosodimethylamine	0.453	0.465	-2.6	136	-0.03	2.51
5	S	2-Fluorophenol	1.490	1.497	-0.5	144	-0.04	3.69
6	t	Indene	2.799	2.475	11.6	134	-0.03	4.85
7	t	Cumene	3.811	3.472	8.9	139	-0.03	4.07
8	S	Phenol-d5	1.928	1.860	3.5	139	-0.03	4.41
9	t	Phenol	2.176	2.071	4.8	139	-0.03	4.42
10	t	Aniline	2.634	1.611	38.8#	90	-0.02	4.43
11	t	bis(2-Chloroethyl)ether	1.604	1.435	10.5	134	-0.02	4.48
12	t	2-Chlorophenol	1.589	1.481	6.8	136	-0.03	4.51
13	t	Decane	1.237	0.994	19.6	126	-0.02	4.54
14	t	1,3-Dichlorobenzene	1.744	1.566	10.2	137	-0.03	4.62
15	t	1,4-Dichlorobenzene	1.773	1.609	9.2	138	-0.02	4.68
16	t	Benzyl alcohol	1.042	0.961	7.8	132	-0.02	4.78
17	t	1,2-Dichlorobenzene	1.662	1.496	10.0	136	-0.03	4.79
18	t	Acetophenone	2.244	1.949	13.1	131	-0.02	4.96
19	t	2-Methylphenol	1.503	1.318	12.3	126	-0.03	4.86
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.465	12.4	133	-0.02	4.87
21	t	3&4-Methylphenol	1.582	1.447	8.5	132	-0.03	4.97
22		n-Nitroso-di-n-propylamin	1.183	1.058	10.6	131	-0.03	4.96
23	t	Hexachloroethane	0.476	0.471	1.1	144	-0.03	5.03
24	I	Naphthalene-d8	1.000	1.000	0.0	143	-0.03	5.59
25	S	Nitrobenzene-d5	0.400	0.404	-1.0	140	-0.03	5.07
26	t	Nitrobenzene	0.439	0.422	3.9	137	-0.03	5.09
27	t	Quinoline	0.787	0.739	6.1	135	-0.02	5.85
28	t	Isophorone	0.737	0.686	6.9	128	0.00	5.26
29	t	2-Nitrophenol	0.173	0.193	-11.6	141	-0.02	5.32
30	t	2,4-Dimethylphenol	0.374	0.338	9.6	123	-0.03	5.35
31	t	Benzoic acid	0.261	0.307	-17.6	158	-0.03	5.44
32	t	bis(2-Chloroethoxy)methan	0.465	0.427	8.2	133	-0.02	5.41
33	t	2,4-Dichlorophenol	0.278	0.286	-2.9	138	-0.03	5.49
34		2,6-Dichlorophenol	0.277	0.271	2.2	134	-0.02	5.65
35		1,3,5-Trichlorobenzene	0.322	0.297	7.8	136	-0.02	5.32
36	t	1,2,4-Trichlorobenzene	0.309	0.297	3.9	139	-0.02	5.55
37		1,2,3-Trichlorobenzene	0.307	0.287	6.5	134	-0.02	5.71
38	t	Naphthalene	1.161	1.068	8.0	136	-0.03	5.60
39	t	4-Chloroaniline	0.472	0.376	20.3#	113	-0.02	5.65
40	t	2,3-Dichloroaniline	0.355	0.332	6.5	133	-0.03	6.33
41	t	Caprolactam	0.128	0.126	1.6	130	-0.03	5.91

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6667-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158395.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.139	-0.7	144	-0.02	5.69
43	t	4-Chloro-3-methylphenol	0.319	0.326	-2.2	140	-0.03	6.00
44	t	2-Methylnaphthalene	0.614	0.585	4.7	137	-0.03	6.10
45	t	1-Methylnaphthalene	0.649	0.598	7.9	133	-0.02	6.18
46	t	Dimethylnaphthalene	0.635	0.602	5.2	134	-0.03	6.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	147	-0.03	7.00
48	t	Hexachlorocyclopentadiene	0.246	0.266	-8.1	141	-0.03	6.22
49	t	2,4,6-Trichlorophenol	0.294	0.301	-2.4	140	-0.03	6.33
50	t	2,4,5-Trichlorophenol	0.334	0.348	-4.2	142	-0.03	6.36
51	S	2-Fluorobiphenyl	1.259	1.165	7.5	139	-0.02	6.39
52	t	2-Chloronaphthalene	1.168	1.059	9.3	134	-0.03	6.49
53	t	Biphenyl	1.539	1.384	10.1	135	-0.02	6.48
54	t	2-Nitroaniline	0.328	0.359	-9.5	147	-0.03	6.58
55	t	Dimethylphthalate	1.275	1.195	6.3	138	-0.03	6.74
56	t	Acenaphthylene	1.873	1.781	4.9	138	-0.03	6.87
57	t	2,6-Dinitrotoluene	0.252	0.281	-11.5	142	-0.03	6.80
58	t	3-Nitroaniline	0.324	0.330	-1.9	133	-0.03	6.96
59	t	Acenaphthene	1.204	1.104	8.3	138	-0.03	7.03
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	113.355	-13.4	168	-0.03	7.06
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.183	-15.1	151	-0.04	7.14
62	t	Dibenzofuran	1.625	1.454	10.5	135	-0.03	7.21
63	t	2,4-Dinitrotoluene	0.344	0.391	-13.7	143	-0.03	7.19
64		2,3,4,6-Tetrachlorophenol	0.225	0.253	-12.4	144	-0.03	7.34
65	t	Diethylphthalate	1.220	1.194	2.1	139	-0.03	7.46
66	t	Fluorene	1.265	1.195	5.5	140	-0.03	7.59
67	t	4-Chlorophenyl-phenylethe	0.524	0.481	8.2	138	-0.03	7.59
68	t	4-Nitroaniline	0.336	0.332	1.2	127	-0.04	7.63
69	I	Phenanthrene-d10	1.000	1.000	0.0	147	-0.04	8.87
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	52.112	-4.2	153	-0.04	7.65
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.532	3.6	139	-0.03	7.74
72	t	1,2-Diphenylhydrazine	0.976	0.918	5.9	138	-0.03	7.78
73	S	2,4,6-Tribromophenol	0.072	0.083	-15.3	153	-0.04	7.89
74	t	4-Bromophenyl-phenylether	0.178	0.176	1.1	145	-0.04	8.22
75	t	Hexachlorobenzene	0.188	0.177	5.9	143	-0.04	8.29
76	t	Pentachlorophenol	0.107	0.127	-18.7	151	-0.04	8.59
77	t	Phenanthrene	1.222	1.132	7.4	140	-0.04	8.91
78	t	Anthracene	1.185	1.136	4.1	139	-0.04	8.99
79	t	Carbazole	1.109	1.044	5.9	134	-0.04	9.27
80	t	Di-n-butylphthalate	1.233	1.343	-8.9	145	-0.04	9.96
81	t	Fluoranthene	1.086	1.122	-3.3	147	-0.05	11.03
82	t	Octadecane	0.449	0.423	5.8	133	-0.04	8.76
83	I	Chrysene-d12	1.000	1.000	0.0	156	-0.05	14.13
84	t	Pyrene	1.410	1.344	4.7	145	-0.05	11.48
85	S	Terphenyl-d14	0.797	0.787	1.3	147	-0.05	11.91
86	t	Butylbenzylphthalate	0.620	0.686	-10.6	151	-0.05	13.09
88	t	Benzo[a]anthracene	1.165	1.178	-1.1	154	-0.06	14.10
89	t	3,3'-Dichlorobenzidine	0.394	0.422	-7.1	150	-0.05	14.16
90	t	Chrysene	1.248	1.152	7.7	144	-0.06	14.18

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6667-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158395.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	50.000	48.682	2.6	151	-0.05	14.49

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	154	-0.05	17.16

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	50.000	52.339	-4.7	159	-0.05	15.95

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.289	-5.0	150	0.00	16.41
95	t	Benzo[k]fluoranthene	1.239	1.269	-2.4	149	0.00	16.48
96	t	Benzo[a]pyrene	1.054	1.140	-8.2	148	-0.06	17.04
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.075	-11.3	152	-0.06	19.10
98	t	Dibenz(a,h)acridine	0.839	0.942	-12.3	150	-0.06	18.74
99	t	Dibenz[a,h]anthracene	0.992	1.072	-8.1	150	-0.06	19.16
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.546	-0.7	133	-0.06	16.43
101	t	Benzo[g,h,i]perylene	1.105	1.174	-6.2	151	-0.06	19.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158339.D MF6644.M Tue Jun 28 09:40:32 2016 RT1

6.7.57

6

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6667-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158396.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6667\F158396.D          Vial: 3
Acq On    : 27 Jun 2016  11:41 pm                   Operator: juliusj
Sample    : cc6645-50                               Inst    : MSF
Misc      : op93756,ef6667                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 28 09:37:49 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	135	-0.03	4.66
103	t	Benzaldehyde	1.097	0.916	16.5	109	-0.07	4.34
104	I	Naphthalene-d8b	1.000	1.000	0.0	136	-0.03	5.59
105	t	Hydroquinone	0.303	0.368	-21.5#	145	-0.03	5.89
106		Acenaphthene-d10b	1.000	1.000	0.0	141	-0.03	6.99
107		1,2,4,5-Tetrachlorobenzen	0.420	0.427	-1.7	147	-0.05	6.23
108		Phenanthrene-d10b	1.000	1.000	0.0	150	-0.04	8.86
109		Atrazine	0.150	0.181	-20.7#	156	-0.08	8.48
110		Chrysene-d12b	1.000	1.000	0.0	158	-0.07	14.11
111		Benzidine	0.453	0.459	-1.3	143	-0.03	11.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158339.D MF6644.M Tue Jun 28 09:40:33 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158423.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6668\F158423.D          Vial: 2
Acq On    : 28 Jun 2016  12:38 pm                   Operator: ariellec
Sample    : cc6644-25                               Inst    : MSF
Misc      : op93756,ef6668                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 28 15:53:24 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	-0.04	4.65
2	t	1,4-Dioxane	0.734	0.675	8.0	112	-0.05	2.20
3	t	Pyridine	1.802	1.822	-1.1	116	-0.04	2.53
4	t	N-Nitrosodimethylamine	0.453	0.475	-4.9	116	-0.05	2.49
5	S	2-Fluorophenol	1.490	1.557	-4.5	124	-0.06	3.67
6	t	Indene	2.799	2.811	-0.4	123	-0.04	4.84
7	t	Cumene	3.811	3.822	-0.3	125	-0.04	4.05
8	S	Phenol-d5	1.928	1.977	-2.5	124	-0.05	4.39
9	t	Phenol	2.176	2.364	-8.6	131	-0.05	4.40
10	t	Aniline	2.634	2.297	12.8	104	-0.04	4.41
11	t	bis(2-Chloroethyl)ether	1.604	1.550	3.4	120	-0.04	4.46
12	t	2-Chlorophenol	1.589	1.624	-2.2	125	-0.04	4.50
13	t	Decane	1.237	1.155	6.6	116	-0.04	4.53
14	t	1,3-Dichlorobenzene	1.744	1.742	0.1	125	-0.04	4.61
15	t	1,4-Dichlorobenzene	1.773	1.747	1.5	124	-0.04	4.66
16	t	Benzyl alcohol	1.042	1.071	-2.8	123	-0.04	4.76
17	t	1,2-Dichlorobenzene	1.662	1.659	0.2	126	-0.04	4.77
18	t	Acetophenone	2.244	2.206	1.7	121	-0.04	4.94
19	t	2-Methylphenol	1.503	1.473	2.0	117	-0.05	4.84
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.515	3.0	120	-0.04	4.85
21	t	3&4-Methylphenol	1.582	1.603	-1.3	121	-0.05	4.95
22		n-Nitroso-di-n-propylamin	1.183	1.157	2.2	118	-0.05	4.94
23	t	Hexachloroethane	0.476	0.520	-9.2	134	-0.04	5.02
24	I	Naphthalene-d8	1.000	1.000	0.0	122	-0.05	5.57
25	S	Nitrobenzene-d5	0.400	0.432	-8.0	127	-0.04	5.05
26	t	Nitrobenzene	0.439	0.464	-5.7	126	-0.05	5.07
27	t	Quinoline	0.787	0.785	0.3	120	-0.05	5.82
28	t	Isophorone	0.737	0.757	-2.7	120	-0.02	5.24
29	t	2-Nitrophenol	0.173	0.213	-23.1#	135	-0.04	5.29
30	t	2,4-Dimethylphenol	0.374	0.362	3.2	112	-0.05	5.33
31	t	Benzoic acid	0.261	0.318	-21.8#	148	-0.07	5.41
32	t	bis(2-Chloroethoxy)methan	0.465	0.461	0.9	119	-0.04	5.39
33	t	2,4-Dichlorophenol	0.278	0.312	-12.2	129	-0.05	5.47
34		2,6-Dichlorophenol	0.277	0.303	-9.4	126	-0.04	5.63
35		1,3,5-Trichlorobenzene	0.322	0.336	-4.3	128	-0.04	5.30
36	t	1,2,4-Trichlorobenzene	0.309	0.319	-3.2	127	-0.04	5.52
37		1,2,3-Trichlorobenzene	0.307	0.320	-4.2	128	-0.04	5.68
38	t	Naphthalene	1.161	1.152	0.8	120	-0.05	5.58
39	t	4-Chloroaniline	0.472	0.454	3.8	113	-0.04	5.63
40	t	2,3-Dichloroaniline	0.355	0.372	-4.8	123	-0.05	6.30
41	t	Caprolactam	0.128	0.139	-8.6	121	-0.06	5.88

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158423.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.147	-6.5	128	-0.04	5.67
43	t	4-Chloro-3-methylphenol	0.319	0.347	-8.8	125	-0.05	5.98
44	t	2-Methylnaphthalene	0.614	0.631	-2.8	125	-0.04	6.09
45	t	1-Methylnaphthalene	0.649	0.666	-2.6	125	-0.04	6.16
46	t	Dimethylnaphthalene	0.635	0.649	-2.2	123	-0.05	6.58
47	I	Acenaphthene-d10	1.000	1.000	0.0	122	-0.05	6.97
48	t	Hexachlorocyclopentadiene	0.246	0.314	-27.6#	137	-0.05	6.20
49	t	2,4,6-Trichlorophenol	0.294	0.351	-19.4	133	-0.05	6.30
50	t	2,4,5-Trichlorophenol	0.334	0.385	-15.3	131	-0.06	6.34
51	S	2-Fluorobiphenyl	1.259	1.282	-1.8	124	-0.04	6.37
52	t	2-Chloronaphthalene	1.168	1.201	-2.8	124	-0.05	6.47
53	t	Biphenyl	1.539	1.556	-1.1	123	-0.05	6.45
54	t	2-Nitroaniline	0.328	0.379	-15.5	127	-0.06	6.56
55	t	Dimethylphthalate	1.275	1.309	-2.7	123	-0.05	6.71
56	t	Acenaphthylene	1.873	1.971	-5.2	125	-0.05	6.84
57	t	2,6-Dinitrotoluene	0.252	0.305	-21.0#	131	-0.06	6.77
58	t	3-Nitroaniline	0.324	0.370	-14.2	126	-0.06	6.94
59	t	Acenaphthene	1.204	1.221	-1.4	123	-0.06	7.00
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	60.488	-21.0#	158	-0.06	7.03
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.196	-23.3#	139	-0.07	7.11
62	t	Dibenzofuran	1.625	1.634	-0.6	122	-0.06	7.18
63	t	2,4-Dinitrotoluene	0.344	0.422	-22.7#	130	-0.06	7.16
64		2,3,4,6-Tetrachlorophenol	0.225	0.282	-25.3#	136	-0.06	7.31
65	t	Diethylphthalate	1.220	1.307	-7.1	126	-0.06	7.43
66	t	Fluorene	1.265	1.307	-3.3	124	-0.07	7.55
67	t	4-Chlorophenyl-phenylethe	0.524	0.545	-4.0	124	-0.06	7.56
68	t	4-Nitroaniline	0.336	0.370	-10.1	119	-0.08	7.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	125	-0.08	8.83
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	28.386	-13.5	150	-0.07	7.62
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.564	-2.2	125	-0.06	7.70
72	t	1,2-Diphenylhydrazine	0.976	0.998	-2.3	124	-0.06	7.75
73	S	2,4,6-Tribromophenol	0.072	0.084	-16.7	134	-0.07	7.85
74	t	4-Bromophenyl-phenylether	0.178	0.189	-6.2	129	-0.07	8.19
75	t	Hexachlorobenzene	0.188	0.184	2.1	120	-0.07	8.25
76	t	Pentachlorophenol	0.107	0.137	-28.0#	141	-0.09	8.54
77	t	Phenanthrene	1.222	1.197	2.0	124	-0.08	8.86
78	t	Anthracene	1.185	1.194	-0.8	122	-0.09	8.94
79	t	Carbazole	1.109	1.146	-3.3	125	-0.09	9.23
80	t	Di-n-butylphthalate	1.233	1.415	-14.8	131	-0.09	9.92
81	t	Fluoranthene	1.086	1.172	-7.9	131	-0.10	10.98
82	t	Octadecane	0.449	0.476	-6.0	122	-0.07	8.72
83	I	Chrysene-d12	1.000	1.000	0.0	129	-0.11	14.07
84	t	Pyrene	1.410	1.438	-2.0	128	-0.10	11.43
85	S	Terphenyl-d14	0.797	0.831	-4.3	131	-0.10	11.86
86	t	Butylbenzylphthalate	0.620	0.730	-17.7	141	-0.10	13.04
87		Butyl stearate		----------NA----------				
88	t	Benzo[a]anthracene	1.165	1.228	-5.4	134	-0.11	14.05
89	t	3,3'-Dichlorobenzidine	0.394	0.457	-16.0	139	-0.11	14.10
90	t	Chrysene	1.248	1.220	2.2	126	-0.12	14.12

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158423.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	25.000	26.482	-5.9	142	-0.10	14.44

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	131	-0.12	17.10

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	25.000	27.946	-11.8	155	0.00	15.89

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.334	-8.6	132	0.00	16.34
95	t	Benzo[k]fluoranthene	1.239	1.307	-5.5	131	0.00	16.41
96	t	Benzo[a]pyrene	1.054	1.193	-13.2	134	0.00	16.98
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.116	-15.5	136	0.00	19.03
98	t	Dibenz(a,h)acridine	0.839	1.002	-19.4	134	-0.12	18.68
99	t	Dibenz[a,h]anthracene	0.992	1.114	-12.3	133	0.00	19.09
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.600	-10.7	124	-0.12	16.37
101	t	Benzo[g,h,i]perylene	1.105	1.215	-10.0	132	0.00	19.46

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Tue Jun 28 16:06:42 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158424.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6668\F158424.D          Vial: 3
Acq On    : 28 Jun 2016   1:07 pm                   Operator: ariellec
Sample    : cc6645-25                               Inst    : MSF
Misc      : op93756,ef6668                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 28 15:53:24 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	122	-0.04	4.65
103 t	Benzaldehyde	1.097	1.108	-1.0	117	-0.09	4.33
104 I	Naphthalene-d8b	1.000	1.000	0.0	118	-0.05	5.57
105 t	Hydroquinone	0.303	0.395	-30.4#	145	-0.05	5.87
106	Acenaphthene-d10b	1.000	1.000	0.0	122	-0.05	6.97
107	1,2,4,5-Tetrachlorobenzen	0.420	0.452	-7.6	135	-0.07	6.21
108	Phenanthrene-d10b	1.000	1.000	0.0	125	-0.08	8.83
109	Atrazine	0.150	0.198	-32.0#	149	-0.12	8.44
110	Chrysene-d12b	1.000	1.000	0.0	133	-0.12	14.06
111	Benzidine	0.453	0.681	-50.3#	164	-0.07	11.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F157885A.D MF6644.M Tue Jun 28 16:06:43 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158425.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6668\F158425.D          Vial: 4
Acq On    : 28 Jun 2016   1:36 pm                   Operator: ariellec
Sample    : cc6647-25                               Inst    : MSF
Misc      : op93756,ef6668                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Sun Jul 03 10:17:52 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-d4A	1.000	1.000	0.0	101	-0.09	4.65
103	t	2-Picoline	1.892	1.853	2.1	102	-0.09	3.18
104	t	Pentachloroethane	0.565	0.566	-0.2	104	-0.09	4.44
105	t	Methyl methanesulfonate	0.869	0.922	-6.1	112	-0.09	3.53
106	t	N-Nitrosodiethylamine	0.804	0.790	1.7	102	-0.09	3.84
107	t	N-Nitrosomethylethylamine	0.465	0.555	-19.4	128	-0.09	3.28
108	t	Ethyl methanesulfonate	1.228	1.291	-5.1	111	-0.09	4.08
109	t	N-Nitrosopyrrolidine	0.410	0.933	-127.6#	249#	-0.08	4.94
110	t	N-Nitrosomorpholine	0.641	0.716	-11.7	121	-0.09	4.96
111	t	o-Toluidine	2.540	2.393	5.8	96	-0.09	4.97
112	I	Naphthalene-d8A	1.000	1.000	0.0	102	-0.09	5.57
113	t	O,O,O-Triethyl phosphorot	0.158	0.158	0.0	102	-0.09	5.37
114	t	N-Nitrosopiperidine	0.149	0.184	-23.5#	132	-0.09	5.18
115	t	A,A-Dimethylphenethylamin		----------NA----------				
116	t	Hexachloropropene	0.185	0.191	-3.2	106	-0.09	5.65
117	t	p-Phenylenediamine	0.160	0.088	45.0#	57	-0.09	5.88
118	t	N-Nitrosodi-n-butylamine	0.249	0.267	-7.2	113	-0.09	5.86
119	t	Safrole	0.269	0.273	-1.5	103	-0.09	6.02
120	t	Isosafrole	0.224	0.232	-3.6	107	-0.10	6.42
121	I	Acenaphthene-d10A	1.000	1.000	0.0	105	-0.11	6.97
122	t	Thionazin	0.146	0.160	-9.6	113	-0.13	7.52
123	t	Tetraethyl dithiopyrophos	0.130	0.142	-9.2	109	-0.13	7.91
124	t	Phorate	0.772	0.960	-24.4#	127	-0.14	8.09
125	t	Phenacetin	0.588	0.716	-21.8#	119	-0.14	8.12
126	t	1,4-Naphthoquinone	0.360	0.398	-10.6	103	-0.11	6.62
127	t	m-Dinitrobenzene	0.167	0.204	-22.2#	120	-0.10	6.74
128	t	Pentachlorobenzene	0.399	0.394	1.3	108	-0.12	7.13
129	t	1-Naphthylamine	0.945	0.916	3.1	103	-0.12	7.26
130	t	2-Naphthylamine	1.145	1.114	2.7	101	-0.12	7.35
131	t	5-Nitro-o-toluidine	0.328	0.388	-18.3	115	-0.13	7.57
132	I	Phenanthrene-d10A	1.000	1.000	0.0	110	-0.15	8.83
133	t	Disulfoton	0.415	0.463	-11.6	110	-0.15	8.87
134	t	Dinoseb	0.126	0.171	-35.7#	137	-0.15	8.85
135	t	Dimethoate	0.302	0.377	-24.8#	122	-0.14	8.32
136	t	4-Aminobiphenyl	0.385	0.384	0.3	108	-0.15	8.56
137	t	Methyl parathion	0.186	0.230	-23.7#	119	-0.16	9.49
138	t	Parathion	0.154	0.182	-18.2	118	-0.17	10.22
139	t	Diphenylamine	0.620	0.610	1.6	108	-0.13	7.70
140	t	Isodrin	0.120	0.127	-5.8	115	-0.19	10.68

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158425.D
Project: BMSMC, Building 5 Area, PR

141	t	Diallate	0.065	0.069	-6.2	116	-0.12	8.20
142	t	Pentachloronitrobenzene	0.032	0.033#	-3.1	108	-0.15	8.55
143	t	Pronamide	0.308	0.357	-15.9	115	-0.14	8.67
144	t	4-Nitroquinoline 1-oxide	0.076	0.108	-42.1#	120	-0.18	10.23
145	t	Methapyriline	0.260	0.354	-36.2#	129	-0.17	10.42
146	t	sym-Trinitrobenzene	0.071	0.088	-23.9#	134	-0.13	8.05
147	I	Chrysene-d12A	1.000	1.000	0.0	114	-0.19	14.06
148	t	Aramite	0.037	0.041#	-10.8	125	-0.19	12.09
149	t	p-(Dimethylamine)azobenze	0.420	0.450	-7.1	114	-0.19	12.18
150	t	Kepone	0.071	0.062	12.7	102	-0.21	12.87
151	t	Famphur	0.347	0.348	-0.3	106	-0.19	12.88
152	t	2-Acetylaminofluorene	0.476	0.561	-17.9	128	-0.19	13.46
153	t	3,3'-Dimethylbenzidine	0.364	0.354	2.7	110	-0.19	12.93
154	t	Chlorobenzilate	0.279	0.325	-16.5	118	-0.19	12.32
155	I	Perylene-d12A	1.000	1.000	0.0	115	-0.21	17.10
156	t	4,4-Methylene-bis-(2-chlo	0.110	0.126	-14.5	118	-0.20	14.14
157	t	3-Methylcholanthrene	0.554	0.616	-11.2	119	-0.22	17.69
158	t	Hexachlorophene	0.041	0.044#	-7.3	146	-0.20	16.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158553.D MF6644AP9.M Tue Jul 05 12:49:51 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6668-CC6660
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158426.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6668\F158426.D          Vial: 5
Acq On    : 28 Jun 2016   2:05 pm                   Operator: ariellec
Sample    : cc6660-25                               Inst    : MSF
Misc      : op93756,ef6668                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Sun Jul 03 10:17:52 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.
169	I	1,4-Dichlorobenzene-d4c	1.000	1.000	0.0	110	-0.08	4.65
170	t	m-Toluidine	2.417	2.798	-15.8	117	-0.08	5.00
171	I	Naphthalene-d8c	1.000	1.000	0.0	112	-0.08	5.57
172	t	2-chloroaniline	0.462	0.488	-5.6	116	-0.08	5.27
173	t	3-chloroaniline	0.421	0.466	-10.7	115	-0.08	5.61
174	t	Catechol	0.329	0.377	-14.6	127	-0.07	5.54
175	t	1-chloro-2-nitrobenzene	0.181	0.249	-37.6#	140	-0.08	5.82
176	I	Chrysene-d12c	1.000	1.000	0.0	134	-0.20	14.06
			True	Calc.	% Drift			
177	t	Bis(2-Ethylhexyl)adipate	25.000	24.887	0.5	139	-0.19	13.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158553.D MF6644AP9.M Tue Jul 05 12:49:52 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158463B.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6670\F158463B.D          Vial: 2
Acq On    : 29 Jun 2016  10:58 am                    Operator: brittanp
Sample    : cc6644-50                                Inst    : MSF
Misc      : op93756,ef6670                           Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 11:25:52 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	182	0.12	4.77
2	t	1,4-Dioxane	0.734	0.611	16.8	157	0.11	2.34
3	t	Pyridine	1.802	1.700	5.7	163	0.12	2.67
4	t	N-Nitrosodimethylamine	0.453	0.476	-5.1	173	0.11	2.63
5	S	2-Fluorophenol	1.490	1.489	0.1	178	0.11	3.80
6	t	Indene	2.799	2.528	9.7	170	0.12	4.96
7	t	Cumene	3.811	3.421	10.2	170	0.11	4.17
8	S	Phenol-d5	1.928	1.844	4.4	171	0.12	4.53
9	t	Phenol	2.176	2.077	4.5	173	0.12	4.54
10	t	Aniline	2.634	1.475	44.0#	102	0.12	4.54
11	t	bis(2-Chloroethyl)ether	1.604	1.462	8.9	170	0.11	4.57
12	t	2-Chlorophenol	1.589	1.455	8.4	166	0.12	4.63
13	t	Decane	1.237	1.052	15.0	166	0.11	4.64
14	t	1,3-Dichlorobenzene	1.744	1.589	8.9	172	0.12	4.73
15	t	1,4-Dichlorobenzene	1.773	1.607	9.4	171	0.12	4.78
16	t	Benzyl alcohol	1.042	0.964	7.5	165	0.12	4.88
17	t	1,2-Dichlorobenzene	1.662	1.483	10.8	167	0.12	4.89
18	t	Acetophenone	2.244	1.966	12.4	165	0.12	5.07
19	t	2-Methylphenol	1.503	1.340	10.8	160	0.12	4.97
20	t	2,2'-oxybis(1-Chloropropa	0.531	0.469	11.7	167	0.11	4.96
21	t	3&4-Methylphenol	1.582	1.474	6.8	167	0.11	5.08
22		n-Nitroso-di-n-propylamin	1.183	1.084	8.4	167	0.11	5.07
23	t	Hexachloroethane	0.476	0.463	2.7	176	0.12	5.14
24	I	Naphthalene-d8	1.000	1.000	0.0	178	0.11	5.69
25	S	Nitrobenzene-d5	0.400	0.400	0.0	174	0.11	5.18
26	t	Nitrobenzene	0.439	0.427	2.7	172	0.10	5.19
27	t	Quinoline	0.787	0.725	7.9	165	0.12	5.96
28	t	Isophorone	0.737	0.677	8.1	158	0.13	5.36
29	t	2-Nitrophenol	0.173	0.194	-12.1	177	0.11	5.42
30	t	2,4-Dimethylphenol	0.374	0.334	10.7	152	0.11	5.46
31	t	Benzoic acid	0.261	0.298	-14.2	191	0.11	5.56
32	t	bis(2-Chloroethoxy)methan	0.465	0.426	8.4	165	0.11	5.51
33	t	2,4-Dichlorophenol	0.278	0.282	-1.4	169	0.11	5.60
34		2,6-Dichlorophenol	0.277	0.268	3.2	165	0.11	5.75
35		1,3,5-Trichlorobenzene	0.322	0.293	9.0	168	0.11	5.42
36	t	1,2,4-Trichlorobenzene	0.309	0.292	5.5	170	0.11	5.65
37		1,2,3-Trichlorobenzene	0.307	0.286	6.8	167	0.11	5.81
38	t	Naphthalene	1.161	1.061	8.6	168	0.11	5.71
39	t	4-Chloroaniline	0.472	0.348	26.3#	130	0.11	5.75
40	t	2,3-Dichloroaniline	0.355	0.326	8.2	163	0.13	6.44
41	t	Caprolactam	0.128	0.130	-1.6	167	0.11	6.02

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158463B.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.138	0.133	3.6	172	0.11	5.79
43	t	4-Chloro-3-methylphenol	0.319	0.319	0.0	170	0.12	6.11
44	t	2-Methylnaphthalene	0.614	0.579	5.7	169	0.12	6.21
45	t	1-Methylnaphthalene	0.649	0.592	8.8	165	0.13	6.29
46	t	Dimethylnaphthalene	0.635	0.591	6.9	165	0.13	6.73
47	I	Acenaphthene-d10	1.000	1.000	0.0	178	0.12	7.13
48	t	Hexachlorocyclopentadiene	0.246	0.259	-5.3	166	0.10	6.33
49	t	2,4,6-Trichlorophenol	0.294	0.302	-2.7	171	0.11	6.44
50	t	2,4,5-Trichlorophenol	0.334	0.342	-2.4	169	0.11	6.49
51	S	2-Fluorobiphenyl	1.259	1.174	6.8	169	0.11	6.51
52	t	2-Chloronaphthalene	1.168	1.078	7.7	166	0.11	6.61
53	t	Biphenyl	1.539	1.403	8.8	166	0.11	6.59
54	t	2-Nitroaniline	0.328	0.367	-11.9	183	0.11	6.71
55	t	Dimethylphthalate	1.275	1.206	5.4	170	0.11	6.86
56	t	Acenaphthylene	1.873	1.790	4.4	169	0.12	6.99
57	t	2,6-Dinitrotoluene	0.252	0.290	-15.1	177	0.11	6.92
58	t	3-Nitroaniline	0.324	0.326	-0.6	159	0.12	7.10
59	t	Acenaphthene	1.204	1.125	6.6	171	0.12	7.16
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	112.183	-12.2	201	0.12	7.20
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.176	-10.7	176	0.12	7.29
62	t	Dibenzofuran	1.625	1.464	9.9	165	0.12	7.35
63	t	2,4-Dinitrotoluene	0.344	0.393	-14.2	174	0.12	7.33
64		2,3,4,6-Tetrachlorophenol	0.225	0.250	-11.1	172	0.13	7.49
65	t	Diethylphthalate	1.220	1.180	3.3	167	0.13	7.60
66	t	Fluorene	1.265	1.204	4.8	171	0.13	7.74
67	t	4-Chlorophenyl-phenylethe	0.524	0.484	7.6	168	0.13	7.74
68	t	4-Nitroaniline	0.336	0.335	0.3	155	0.13	7.78
69	I	Phenanthrene-d10	1.000	1.000	0.0	177	0.15	9.05
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	52.927	-5.9	187	0.13	7.81
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.538	2.5	170	0.13	7.89
72	t	1,2-Diphenylhydrazine	0.976	0.936	4.1	170	0.13	7.93
73	S	2,4,6-Tribromophenol	0.072	0.080	-11.1	179	0.13	8.04
74	t	4-Bromophenyl-phenylether	0.178	0.176	1.1	175	0.14	8.38
75	t	Hexachlorobenzene	0.188	0.172	8.5	166	0.14	8.45
76	t	Pentachlorophenol	0.107	0.120	-12.1	172	0.14	8.76
77	t	Phenanthrene	1.222	1.134	7.2	169	0.15	9.08
78	t	Anthracene	1.185	1.135	4.2	168	0.14	9.16
79	t	Carbazole	1.109	1.052	5.1	164	0.15	9.45
80	t	Di-n-butylphthalate	1.233	1.339	-8.6	175	0.15	10.15
81	t	Fluoranthene	1.086	1.118	-2.9	177	0.17	11.25
82	t	Octadecane	0.449	0.448	0.2	169	0.14	8.92
83	I	Chrysene-d12	1.000	1.000	0.0	185	0.19	14.35
84	t	Pyrene	1.410	1.359	3.6	174	0.18	11.69
85	S	Terphenyl-d14	0.797	0.786	1.4	174	0.17	12.12
86	t	Butylbenzylphthalate	0.620	0.689	-11.1	180	0.18	13.30
88	t	Benzo[a]anthracene	1.165	1.175	-0.9	182	0.19	14.33
89	t	3,3'-Dichlorobenzidine	0.394	0.430	-9.1	181	0.19	14.38
90	t	Chrysene	1.248	1.159	7.1	172	0.19	14.41

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6644
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158463B.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
91	t	bis(2-Ethylhexyl)phthalat	50.000	49.710	0.6	183	0.18	14.70

			AvgRF	CCRF	% Dev			
92	I	Perylene-d12	1.000	1.000	0.0	184	0.19	17.39

			True	Calc.	% Drift			
93	t	Di-n-octylphthalate	50.000	52.997	-6.0	192	0.00	16.15

			AvgRF	CCRF	% Dev			
94	t	Benzo[b]fluoranthene	1.228	1.278	-4.1	177	0.00	16.65
95	t	Benzo[k]fluoranthene	1.239	1.252	-1.0	175	0.00	16.71
96	t	Benzo[a]pyrene	1.054	1.142	-8.3	176	0.00	17.28
97	t	Indeno[1,2,3-cd]pyrene	0.966	1.076	-11.4	181	0.00	19.34
98	t	Dibenz(a,h)acridine	0.839	0.942	-12.3	178	-0.13	18.98
99	t	Dibenz[a,h]anthracene	0.992	1.073	-8.2	179	0.00	19.40
100	t	7,12-Dimethylbenz(a)anthr	0.542	0.546	-0.7	159	0.18	16.66
101	t	Benzo[g,h,i]perylene	1.105	1.173	-6.2	180	0.00	19.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158339.D MF6644.M Wed Jun 29 16:04:50 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6645
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158464.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6670\F158464.D          Vial: 3
Acq On    : 29 Jun 2016  11:27 am                   Operator: brittanp
Sample    : cc6645-50                               Inst    : MSF
Misc      : op93756,ef6670                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 11:25:52 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	147	0.11	4.77
103 t	Benzaldehyde	1.097	1.159	-5.7	150	0.06	4.45
104 I	Naphthalene-d8b	1.000	1.000	0.0	148	0.11	5.69
105 t	Hydroquinone	0.303	0.396	-30.7#	169	0.11	5.99
106	Acenaphthene-d10b	1.000	1.000	0.0	159	0.12	7.13
107	1,2,4,5-Tetrachlorobenzen	0.420	0.413	1.7	160	0.07	6.34
108	Phenanthrene-d10b	1.000	1.000	0.0	168	0.14	9.04
109	Atrazine	0.150	0.189	-26.0#	182	0.09	8.64
110	Chrysene-d12b	1.000	1.000	0.0	183	0.18	14.34
111	Benzidine	0.453	0.583	-28.7#	209#	0.20	11.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158339.D MF6644.M Wed Jun 29 16:03:58 2016 RT1

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158465.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D          Vial: 4
Acq On    : 29 Jun 2016  11:56 am                   Operator: brittanp
Sample    : cc6647-50                               Inst    : MSF
Misc      : op93756,ef6670                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:18:24 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	0.03	4.77
103	t	2-Picoline	1.892	1.780	5.9	129	0.04	3.31
104	t	Pentachloroethane	0.565	0.522	7.6	126	0.04	4.56
105	t	Methyl methanesulfonate	0.869	0.826	4.9	129	0.04	3.65
106	t	N-Nitrosodiethylamine	0.804	0.758	5.7	124	0.03	3.96
107	t	N-Nitrosomethylethylamine	0.465	0.515	-10.8	149	0.04	3.40
108	t	Ethyl methanesulfonate	1.228	1.204	2.0	132	0.04	4.20
109	t	N-Nitrosopyrrolidine	0.410	0.764	-86.3#	230#	0.04	5.07
110	t	N-Nitrosomorpholine	0.641	0.655	-2.2	138	0.03	5.08
111	t	o-Toluidine	2.540	2.197	13.5	116	0.04	5.09
112	I	Naphthalene-d8A	1.000	1.000	0.0	124	0.04	5.69
113	t	O,O,O-Triethyl phosphorot	0.158	0.150	5.1	123	0.03	5.49
114	t	N-Nitrosopiperidine	0.149	0.171	-14.8	153	0.04	5.30
115	t	A,A-Dimethylphenethylamin	0.628	0.716	-14.0	133	0.30	5.89
116	t	Hexachloropropene	0.185	0.179	3.2	120	0.03	5.76
117	t	p-Phenylenediamine	0.160	0.080	50.0#	61	0.04	6.00
118	t	N-Nitrosodi-n-butylamine	0.249	0.254	-2.0	130	0.04	5.98
119	t	Safrole	0.269	0.252	6.3	120	0.03	6.14
120	t	Isosafrole	0.224	0.201	10.3	111	0.04	6.56
121	I	Acenaphthene-d10A	1.000	1.000	0.0	124	0.04	7.13
122	t	Thionazin	0.146	0.153	-4.8	123	0.05	7.69
123	t	Tetraethyl dithiopyrophos	0.130	0.134	-3.1	117	0.05	8.09
124	t	Phorate	0.772	0.888	-15.0	139	0.05	8.28
125	t	Phenacetin	0.588	0.674	-14.6	124	0.06	8.31
126	t	1,4-Naphthoquinone	0.360	0.360	0.0	110	0.04	6.77
127	t	m-Dinitrobenzene	0.167	0.189	-13.2	125	0.05	6.89
128	t	Pentachlorobenzene	0.399	0.360	9.8	119	0.05	7.30
129	t	1-Naphthylamine	0.945	0.896	5.2	117	0.05	7.43
130	t	2-Naphthylamine	1.145	1.025	10.5	110	0.05	7.52
131	t	5-Nitro-o-toluidine	0.328	0.356	-8.5	124	0.06	7.76
132	I	Phenanthrene-d10A	1.000	1.000	0.0	122	0.07	9.05
133	t	Disulfoton	0.415	0.463	-11.6	129	0.06	9.08
134	t	Dinoseb	0.126	0.168	-33.3#	126	0.06	9.06
135	t	Dimethoate	0.302	0.355	-17.5	130	0.06	8.53
136	t	4-Aminobiphenyl	0.385	0.357	7.3	110	0.06	8.77
137	t	Methyl parathion	0.186	0.216	-16.1	122	0.06	9.71
138	t	Parathion	0.154	0.175	-13.6	122	0.06	10.46
139	t	Diphenylamine	0.620	0.575	7.3	118	0.05	7.89
140	t	Isodrin	0.120	0.117	2.5	118	0.06	10.93

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158465.D
Project: BMSMC, Building 5 Area, PR

141	t	Diallate	0.065	0.352	-441.5#	664#	0.05	8.27
142	t	Pentachloronitrobenzene	0.032	0.031#	3.1	117	0.06	8.77
143	t	Pronamide	0.308	0.336	-9.1	119	0.06	8.88
144	t	4-Nitroquinoline 1-oxide	0.076	0.109	-43.4#	120	0.08	10.48
145	t	Methapyriline	0.260	0.302	-16.2	145	0.12	10.71
146	t	sym-Trinitrobenzene	0.071	0.085	-19.7	126	0.07	8.24
147	I	Chrysene-d12A	1.000	1.000	0.0	119	0.09	14.34
148	t	Aramite	0.037	0.043#	-16.2	129	0.06	12.34
149	t	p-(Dimethylamine)azobenze	0.420	0.454	-8.1	118	0.08	12.44
150	t	Kepone	0.071	0.036#	49.3#	90	0.07	13.15
151	t	Famphur	0.347	0.245	29.4#	111	0.08	13.14
152	t	2-Acetylaminofluorene	0.476	0.566	-18.9	127	0.08	13.74
153	t	3,3'-Dimethylbenzidine	0.364	0.207	43.1#	119	0.08	13.20
154	t	Chlorobenzilate	0.279	0.318	-14.0	119	0.07	12.58
155	I	Perylene-d12A	1.000	1.000	0.0	120	0.09	17.39
156	t	4,4-Methylene-bis-(2-chlo	0.110	0.113	-2.7	118	0.08	14.41
157	t	3-Methylcholanthrene	0.554	0.587	-6.0	114	0.08	17.99
158	t	Hexachlorophene	0.041	0.034#	17.1	70	0.08	17.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158208.D MF6644AP9.M Wed Jun 29 16:48:51 2016 RT1

6.7.65

6

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EF6670-CC6647
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F158466.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6670\F158466.D          Vial: 5
Acq On    : 29 Jun 2016  12:25 pm                   Operator: brittanp
Sample    : cc6647-50                               Inst    : MSF
Misc      : op93756,ef6670                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:18:24 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.
169	I	1,4-Dichlorobenzene-d4c	1.000	1.000	0.0	153	0.03	4.77
170	t	m-Toluidine	2.417	2.666	-10.3	155	0.04	5.12
171	I	Naphthalene-d8c	1.000	1.000	0.0	156	0.04	5.69
172	t	2-chloroaniline	0.462	0.472	-2.2	155	0.04	5.39
173	t	3-chloroaniline	0.421	0.444	-5.5	153	0.04	5.73
174	t	Catechol	0.329	0.382	-16.1	164	0.06	5.67
175	t	1-chloro-2-nitrobenzene	0.181	0.250	-38.1#	197	0.04	5.94
176	I	Chrysene-d12c	1.000	1.000	0.0	182	0.09	14.34
			True	Calc.	% Drift			
177	t	Bis(2-Ethylhexyl)adipate	50.000	51.569	-3.1	193	0.06	13.58

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F158208.D MF6644AP9.M Wed Jun 29 16:48:52 2016 RT1

Initial Calibration Summary

Job Number: JC22206 **Sample:** EZ5571-ICC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111538.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSZ

Method : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Fri Jun 17 10:11:54 2016
Response via : Initial Calibration

Calibration Files
100 =Z111536.D 80 =Z111537.D 50 =Z111538.D 25 =Z111539.D
10 =Z111540.D 5 =Z111541.D 2 =Z111542.D 1 =Z111543.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.578	0.584	0.579	0.565	0.560	0.600	0.624	0.579	0.584	3.45
3) Pyridine	1.535	1.595	1.528	1.492	1.636	1.682	1.760	1.535	1.595	5.73
4) N-Nitrosodim	0.899	0.888	0.893	0.875	0.882	0.897	0.913	0.906	0.894	1.39
5) 2-Fluorophen	1.353	1.359	1.353	1.356	1.354	1.382	1.392	1.511	1.383	3.91
6) Indene	2.028	2.067	2.174	2.287	2.420	2.613	2.579	2.758	2.366	11.40
7) Cumene	3.217	3.253	3.358	3.461	3.505	3.603	3.671	3.796	3.483	5.82
8) Phenol-d5	1.676	1.664	1.695	1.710	1.727	1.771	1.791	1.960	1.749	5.47
9) Phenol	1.789	1.852	1.904	1.965	1.841	1.884	2.011	1.950	1.899	3.85
10) Aniline	1.766	1.826	1.891	1.967	2.184	2.298	2.392	2.421	2.093	12.53
11) bis(2-Chloro	1.161	1.172	1.199	1.216	1.271	1.279	1.329	1.315	1.243	5.18
12) 2-Chlorophen	1.311	1.332	1.375	1.425	1.521	1.592	1.625	1.575	1.470	8.45
13) Decane	1.094	1.119	1.161	1.213	1.233	1.298	1.396	1.450	1.246	10.27
14) 1,3-Dichloro	1.441	1.459	1.516	1.568	1.611	1.716	1.765	1.825	1.613	8.87
15) 1,4-Dichloro	1.409	1.428	1.475	1.550	1.604	1.687	1.795	1.908	1.607	11.14
16) Benzyl alcoh	0.837	0.861	0.872	0.865	0.880	0.875	0.930	0.988	0.889	5.39
17) 1,2-Dichloro	1.263	1.300	1.358	1.438	1.519	1.605	1.647	1.707	1.480	11.22
18) Acetophenone	1.627	1.669	1.765	1.844	1.971	2.043	2.149	2.198	1.908	11.29
19) 2-Methylphen	1.069	1.103	1.165	1.218	1.269	1.341	1.361	1.383	1.239	9.66
20) 2,2'-oxybis(	0.356	0.368	0.380	0.392	0.417	0.425	0.402	0.495	0.404	10.74
21) 3&4-Methylph	1.133	1.182	1.233	1.262	1.350	1.358	1.420	1.435	1.296	8.55
22) n-Nitroso-di	0.882	0.888	0.932	0.999	1.060	1.163	1.171	1.155	1.031	11.97
23) Hexachloroet	0.494	0.494	0.516	0.529	0.538	0.577	0.595	0.568	0.539	7.03
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.375	0.373	0.377	0.382	0.383	0.387	0.365	0.385	0.378	1.90
26) Nitrobenzene	0.365	0.364	0.380	0.392	0.404	0.420	0.397	0.408	0.391	5.16
27) Quinoline	0.726	0.709	0.728	0.733	0.766	0.779	0.809	0.805	0.757	5.06
28) Isophorone	0.666	0.672	0.684	0.708	0.725	0.747	0.780	0.778	0.720	6.27
29) 2-Nitropheno	0.193	0.192	0.194	0.192	0.183	0.166	0.162	0.147	0.179	10.13
30) 2,4-Dimethyl	0.332	0.329	0.333	0.337	0.347	0.371	0.388	0.393	0.354	7.41
31) Benzoic Acid	0.247	0.242	0.259	0.236	0.206	0.182			0.229	12.61
32) bis(2-Chloro	0.378	0.376	0.388	0.394	0.420	0.437	0.428	0.442	0.408	6.58
33) 2,4-Dichloro	0.283	0.287	0.298	0.311	0.316	0.327	0.320	0.340	0.310	6.35
34) 2,6-Dichloro	0.262	0.265	0.277	0.287	0.297	0.312	0.313	0.303	0.290	6.96
35) 1,3,5-Trichl	0.307	0.311	0.331	0.350	0.375	0.388	0.380	0.417	0.357	10.95
36) 1,2,4-Trichl	0.303	0.308	0.320	0.335	0.357	0.371	0.360	0.354	0.339	7.57
37) 1,2,3-Trichl	0.286	0.288	0.301	0.321	0.350	0.347	0.355	0.371	0.327	10.06
38) Naphthalene	0.950	0.949	0.988	1.027	1.090	1.121	1.162	1.231	1.065	9.72
39) 4-Chloroanil	0.399	0.406	0.423	0.449	0.480	0.492	0.494	0.512	0.457	9.53
40) 2,3-Dichloro	0.334	0.340	0.352	0.364	0.392	0.406	0.412	0.438	0.380	9.94
41) Caprolactam	0.146	0.145	0.146	0.145	0.154	0.151	0.163		0.150	4.33
42) Hexachlorobu	0.161	0.165	0.173	0.186	0.193	0.200	0.200	0.226	0.188	11.47
43) 4-Chloro-3-m	0.312	0.314	0.324	0.329	0.334	0.340	0.333	0.329	0.327	3.03
44) 2-Methylnaph	0.553	0.558	0.591	0.616	0.633	0.654	0.671	0.692	0.621	8.21
45) 1-Methylnaph	0.568	0.569	0.602	0.626	0.671	0.686	0.702	0.724	0.643	9.42

```
46) Dimethylnaph 0.589 0.599 0.622 0.653 0.690 0.686 0.713 0.732 0.661   8.04

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.303 0.313 0.337 0.364 0.369 0.373 0.359 0.343 0.345   7.54
49) 2,4,6-Trichl 0.310 0.331 0.349 0.374 0.388 0.403 0.383 0.402 0.368   9.27
50) 2,4,5-Trichl 0.356 0.360 0.377 0.381 0.407 0.418 0.422 0.392 0.389   6.45
51) 2-Fluorobiph 1.092 1.126 1.183 1.258 1.333 1.376 1.452 1.524 1.293  12.03
52) 2-Chloronaph 0.981 1.012 1.068 1.122 1.215 1.266 1.318 1.372 1.169  12.39
53) Biphenyl     1.308 1.337 1.428 1.468 1.566 1.623 1.676 1.752 1.520  10.57
54) 2-Nitroanili 0.332 0.335 0.342 0.337 0.324 0.317 0.274 0.257 0.315  10.05
55) Dimethylphth 1.204 1.223 1.267 1.324 1.373 1.436 1.471 1.484 1.348   8.21
56) Acenaphthyle 1.679 1.731 1.810 1.899 2.012 2.080 2.116 2.171 1.937   9.54
57) 2,6-Dinitrot 0.272 0.277 0.282 0.272 0.254 0.240 0.196 0.188 0.248  14.98
58) 3-Nitroanili 0.332 0.331 0.330 0.315 0.298 0.278 0.247       0.304  10.65
59) Acenaphthene 1.001 1.036 1.085 1.129 1.198 1.227 1.312 1.322 1.164  10.38
60) 2,4-Dinitrop 0.141 0.138 0.130 0.102 0.069 0.048 0.030       0.094  48.02
            ---- Quadratic regression ----  Coefficient =  0.9989
              Response Ratio = -0.02067 + 0.12445 *A + 0.00430 *A^2

61) 4-Nitropheno 0.181 0.185 0.183 0.177 0.166 0.148 0.141       0.169  10.49
62) Dibenzofuran 1.398 1.461 1.528 1.613 1.722 1.771 1.845 1.852 1.649  10.61
63) 2,4-Dinitrot 0.381 0.389 0.391 0.383 0.344 0.295 0.215 0.155 0.319  28.25
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.00676 + 0.38803 *A

64) 2,3,4,6-Tetr 0.307 0.317 0.325 0.321 0.333 0.333 0.329 0.307 0.322   3.22
65) Diethylphtha 1.210 1.248 1.282 1.327 1.392 1.436 1.539 1.520 1.369   8.97
66) Fluorene     1.109 1.154 1.217 1.290 1.401 1.450 1.494 1.536 1.331  12.13
67) 4-Chlorophen 0.515 0.535 0.569 0.611 0.644 0.691 0.706 0.730 0.625  12.92
68) 4-Nitroanili 0.332 0.340 0.338 0.332 0.326 0.316 0.283 0.223 0.311  12.83

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.132 0.131 0.122 0.110 0.084 0.061 0.040       0.097  37.51
            ---- Quadratic regression ----  Coefficient =  0.9996
              Response Ratio = -0.00726 + 0.12023 *A + 0.00615 *A^2

71) n-Nitrosodip 0.494 0.502 0.518 0.546 0.568 0.585 0.595 0.607 0.552   7.90
72) 1,2-Diphenyl 0.720 0.741 0.767 0.792 0.852 0.871 0.857 0.910 0.814   8.40
73) 2,4,6-Tribro 0.089 0.090 0.092 0.092 0.093 0.092 0.085 0.077 0.089   5.94
74) 4-Bromopheny 0.199 0.203 0.210 0.220 0.227 0.229 0.228 0.236 0.219   6.16
75) Hexachlorobe 0.204 0.210 0.215 0.227 0.236 0.238 0.261 0.234 0.228   8.06
76) Pentachlorop 0.145 0.149 0.151 0.152 0.149 0.143 0.117 0.105 0.139  12.89
77) Phenanthrene 0.989 1.003 1.045 1.090 1.144 1.193 1.230 1.232 1.116   8.83
78) Anthracene   1.008 1.030 1.070 1.124 1.186 1.226 1.243 1.260 1.143   8.68
79) Carbazole    0.982 1.017 1.042 1.085 1.133 1.174 1.192 1.251 1.109   8.44
80) Di-n-butylph 1.271 1.299 1.347 1.380 1.394 1.428 1.396 1.384 1.362   3.89
81) Fluoranthene 1.123 1.174 1.209 1.249 1.304 1.344 1.292 1.317 1.251   6.16
82) Octadecane   0.402 0.418 0.431 0.448 0.464 0.471 0.485 0.474 0.449   6.59

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.286 1.311 1.353 1.369 1.407 1.453 1.424 1.453 1.382   4.54
85) Terphenyl-d1 0.817 0.833 0.861 0.861 0.878 0.877 0.901 0.901 0.866   3.44
86) Butylbenzylp 0.613 0.627 0.624 0.638 0.635 0.637 0.611 0.650 0.629   2.11
87) Benzo[a]anth 1.151 1.172 1.185 1.202 1.252 1.256 1.339 1.458 1.252   8.19
88) 3,3'-Dichlor 0.425 0.442 0.441 0.443 0.459 0.469 0.461 0.466 0.451   3.41
89) Chrysene     1.084 1.115 1.124 1.139 1.199 1.221 1.242 1.324 1.181   6.77
90) bis(2-Ethylh 0.821 0.831 0.838 0.849 0.862 0.886 0.856 0.883 0.853   2.72

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.517 1.515 1.573 1.632 1.685 1.748 1.725 1.741 1.642   5.93
```

Initial Calibration Summary

Job Number: JC22206 **Sample:** EZ5571-ICC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111538.D
Project: BMSMC, Building 5 Area, PR

93)	Benzo[b]fluo	1.231	1.220	1.233	1.307	1.371	1.414	1.456	1.531	1.345	8.66
94)	Benzo[k]fluo	1.077	1.128	1.177	1.215	1.291	1.352	1.429	1.475	1.268	11.29
95)	Benzo[a]pyre	1.057	1.071	1.102	1.159	1.214	1.252	1.309	1.394	1.195	10.03
96)	Indeno[1,2,3	0.972	0.994	0.993	1.026	1.054	1.113	1.141	1.224	1.064	8.24
97)	Dibenz(a,h)a	0.903	0.920	0.928	0.953	1.025	1.049	1.062	1.134	0.997	8.30
98)	Dibenz[a,h]a	1.031	1.003	1.012	1.039	1.076	1.128	1.161	1.252	1.088	7.96
99)	7,12-Dimethy	0.548	0.554	0.558	0.585	0.605	0.604	0.608	0.596	0.582	4.33
100)	Benzo[g,h,i]	1.004	1.026	1.017	1.051	1.092	1.153	1.201	1.263	1.101	8.65

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

MZ5571.M Fri Jun 17 10:14:47 2016 RTE

Initial Calibration Summary

Job Number: JC22206 **Sample:** EZ5573-ICC5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111547.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSZ

```
Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 10:11:54 2016
Response via : Initial Calibration

Calibration Files
100 =Z111545.D  80  =Z111546.D  50  =Z111547.D  25  =Z111548.D
10  =Z111549.D  5   =Z111550.D  2   =Z111551.D  1   =Z111552.D

 Compound          100   80    50    25    10    5     2     1     Avg %RSD
-------------------------------------------------------------------------------

101)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
102) Benzaldehyde 0.787 0.869 0.996 1.045 1.104 1.061 1.235 1.042 1.017  13.59

103)     Phenanthrene-d10a     ----------------ISTD---------------------
104) 1-chloroocta 0.254 0.261 0.267 0.263 0.274 0.239 0.289 0.206 0.257   9.78
105) o-terphenyl  0.485 0.498 0.515 0.522 0.573 0.515 0.623 0.503 0.529   8.69
106) Atrazine     0.095 0.098 0.098 0.097 0.105 0.092 0.104 0.090 0.098   5.38

107)     Chrysene-d12a         ----------------ISTD---------------------
108) Benzidine    0.289 0.365 0.516 0.634 0.669 0.580 0.199 0.380 0.454  37.66

109)     Acenaphthene-d10a     ----------------ISTD---------------------
110) 1,2,4,5-Tetr 0.453 0.465 0.487 0.495 0.537 0.513 0.608 0.485 0.505   9.76

111) I   Naphthalene-d8a       ----------------ISTD---------------------
112) Hydroquinone 0.298 0.303 0.314 0.301 0.298 0.262 0.224 0.170 0.271  18.57

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

           MZ5571.M          Fri Jun 17 17:11:12 2016   RTE
```

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5573-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111554.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ez5573\Z111554.D Vial: 11
Acq On : 15 Jun 2016 12:45 pm Operator: ariellec
Sample : icv5571-50 Inst : MSZ
Misc : op94271,ez5573 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Thu Jun 16 09:20:46 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	122	0.00	4.64
5	S	2-Fluorophenol	1.383	1.272	8.0	115	0.00	3.65
8	S	Phenol-d5	1.749	1.560	10.8	112	0.00	4.37
24	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	5.56
25	S	Nitrobenzene-d5	0.378	0.351	7.1	115	0.00	5.04
47	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	6.95
51	S	2-Fluorobiphenyl	1.293	1.208	6.6	118	0.00	6.35
69	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00	8.78
73	S	2,4,6-Tribromophenol	0.089	0.076	14.6	92	0.00	7.82
83	I	Chrysene-d12	1.000	1.000	0.0	115	-0.01	13.99
85	S	Terphenyl-d14	0.866	0.751	13.3	100	0.00	11.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:27:21 2016 RTE

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5573-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111555.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111555.D          Vial: 12
Acq On    : 15 Jun 2016   1:15 pm                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 09:05:02 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	4.64
3	t	Pyridine	1.595	1.544	3.2	101	0.07	2.58
10	t	Aniline	2.093	2.252	-7.6	119	0.00	4.40
16	t	Benzyl alcohol	0.889	0.911	-2.5	104	0.00	4.74
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.56
39	t	4-Chloroaniline	0.457	0.412	9.8	103	0.00	5.62
44	t	2-Methylnaphthalene	0.621	0.549	11.6	98	0.00	6.07
47	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	6.95
54	t	2-Nitroaniline	0.315	0.294	6.7	85	0.00	6.53
58	t	3-Nitroaniline	0.304	0.283	6.9	85	0.00	6.90
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.649	1.559	5.5	101	0.00	7.16
		----------	AvgRF	CCRF	% Dev	----------		
68	t	4-Nitroaniline	0.311	0.279	10.3	81	0.01	7.55
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00	8.78
		----------	AvgRF	CCRF	% Dev	----------		
79	t	Carbazole	1.109	1.000	9.8	96	0.00	9.17
83	I	Chrysene-d12	1.000	1.000	0.0	106	-0.02	13.98
91	I	Perylene-d12	1.000	1.000	0.0	105	-0.02	17.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Fri Jun 17 09:17:03 2016 RTE

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5573-ICV5571
Lab FileID: Z111558.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111558.D          Vial: 15
Acq On    : 15 Jun 2016   2:44 pm                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:33:31 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	116	-0.01	13.99
88	t	3,3'-Dichlorobenzidine	0.451	0.375	16.9	98	0.00	14.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:36:45 2016 RTE

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5573-ICV5573
Lab FileID: Z111559.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111559.D          Vial: 16
Acq On    : 15 Jun 2016   3:14 pm                   Operator: ariellec
Sample    : icv5573-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:20:46 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.
111 I	Naphthalene-d8a	1.000	1.000	0.0	96	0.00	5.56
112	Hydroquinone	0.271	0.335	-23.6	103	0.00	5.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:27:26 2016 RTE

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5574-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111561.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5574\Z111561.D          Vial: 2
Acq On    : 15 Jun 2016   5:03 pm                   Operator: seanb1
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5574                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 09:05:02 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	108	0.00	4.64
9	t	Phenol	1.899	1.669	12.1	95	0.00	4.38
12	t	2-Chlorophenol	1.470	1.352	8.0	106	0.00	4.48
19	t	2-Methylphenol	1.239	1.180	4.8	110	0.00	4.82
21	t	3&4-Methylphenol	1.296	1.225	5.5	108	0.00	4.93
24	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00	5.56
29	t	2-Nitrophenol	0.179	0.194	-8.4	103	0.00	5.28
30	t	2,4-Dimethylphenol	0.354	0.358	-1.1	110	0.00	5.31
31		Benzoic Acid	0.229	0.256	-11.8	101	0.05	5.40
33	t	2,4-Dichlorophenol	0.310	0.284	8.4	98	0.00	5.45
34		2,6-Dichlorophenol	0.290	0.274	5.5	101	0.00	5.62
43	t	4-Chloro-3-methylphenol	0.327	0.310	5.2	98	-0.01	5.95
47	I	Acenaphthene-d10	1.000	1.000	0.0	102	-0.01	6.95
49	t	2,4,6-Trichlorophenol	0.368	0.361	1.9	105	0.00	6.28
50	t	2,4,5-Trichlorophenol	0.389	0.336	13.6	91	0.00	6.31
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	55.988	-12.0	102	-0.01	6.99
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.169	0.175	-3.6	98	0.00	7.06
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.322	0.296	8.1	93	0.00	7.28
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	-0.01	8.78
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	51.173	-2.3	103	-0.01	7.58
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.139	0.146	-5.0	96	-0.01	8.51
83	I	Chrysene-d12	1.000	1.000	0.0	106	-0.02	13.98
91	I	Perylene-d12	1.000	1.000	0.0	105	-0.03	17.00

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

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5574-ICV5571
Lab FileID: Z111561.D

```
Z111547a.D MZ5571.M         Fri Jun 17 09:19:26 2016   RTE
```

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5574-ICV5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111562A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5574\Z111562a.D          Vial: 3
Acq On    : 15 Jun 2016   5:33 pm                    Operator: seanb1
Sample    : icv5573-50                               Inst    : MSZ
Misc      : op94271,ez5574                           Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:33:31 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.
107	Chrysene-d12a	1.000	1.000	0.0	85	0.00	13.99
108	Benzidine	0.454	0.415	8.5	69	0.00	11.26
109	Acenaphthene-d10a	1.000	1.000	0.0	98	0.00	6.95
110	1,2,4,5-Tetrachlorobenzen	0.505	0.518	-2.6	104	0.00	6.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:53:32 2016 RTE

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5574-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111562.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5574\Z111562.D          Vial: 3
Acq On    : 15 Jun 2016   5:33 pm                   Operator: seanb1
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5574                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 09:05:02 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	105	0.00	4.64
4	t	N-Nitrosodimethylamine	0.894	0.758	15.2	89	0.00	2.46
11	t	bis(2-Chloroethyl)ether	1.243	1.225	1.4	107	0.00	4.44
14	t	1,3-Dichlorobenzene	1.613	1.458	9.6	100	0.00	4.60
15	t	1,4-Dichlorobenzene	1.607	1.390	13.5	99	0.00	4.65
17	t	1,2-Dichlorobenzene	1.480	1.343	9.3	103	0.00	4.77
20	t	2,2'-oxybis(1-Chloropropa	0.404	0.336	16.8	92	0.00	4.84
22	t	n-Nitroso-di-n-propylamin	1.031	0.897	13.0	101	0.00	4.93
23	t	Hexachloroethane	0.539	0.482	10.6	98	0.00	5.01
24	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00	5.56
26	t	Nitrobenzene	0.391	0.351	10.2	94	0.00	5.05
28	t	Isophorone	0.720	0.644	10.6	96	0.00	5.23
32	t	bis(2-Chloroethoxy)methan	0.408	0.382	6.4	100	0.00	5.38
36	t	1,2,4-Trichlorobenzene	0.339	0.306	9.7	97	0.00	5.52
38	t	Naphthalene	1.065	0.919	13.7	94	0.00	5.57
42	t	Hexachlorobutadiene	0.188	0.170	9.6	100	0.00	5.67
47	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	6.95
48	t	Hexachlorocyclopentadiene	0.345	0.300	13.0	86	0.00	6.20
52	t	2-Chloronaphthalene	1.169	1.072	8.3	98	-0.01	6.45
55	t	Dimethylphthalate	1.348	1.165	13.6	89	0.00	6.69
56	t	Acenaphthylene	1.937	1.625	16.1	87	-0.01	6.81
57	t	2,6-Dinitrotoluene	0.248	0.245	1.2	84	0.00	6.74
59	t	Acenaphthene	1.164	0.996	14.4	89	0.00	6.98
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	40.131	19.7	76	0.00	7.13
		----------	AvgRF	CCRF	% Dev	----------		
65	t	Diethylphthalate	1.369	1.159	15.3	88	0.00	7.39
66	t	Fluorene	1.331	1.095	17.7	87	0.00	7.53
67	t	4-Chlorophenyl-phenylethe	0.625	0.524	16.2	90	0.00	7.53
69	I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.01	8.78
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.452	18.1	84	0.00	7.67
72	t	1,2-Diphenylhydrazine	0.814	0.683	16.1	86	0.00	7.71
74	t	4-Bromophenyl-phenylether	0.219	0.193	11.9	88	-0.01	8.14
75	t	Hexachlorobenzene	0.228	0.193	15.4	86	0.00	8.23
77	t	Phenanthrene	1.116	0.936	16.1	86	-0.01	8.82

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5574-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111562.D
Project: BMSMC, Building 5 Area, PR

78	t	Anthracene	1.143	0.925	19.1	83	0.00	8.90
80	t	Di-n-butylphthalate	1.362	1.172	14.0	84	-0.01	9.86
81	t	Fluoranthene	1.251	1.046	16.4	83	-0.01	10.92
83	I	Chrysene-d12	1.000	1.000	0.0	93	-0.01	13.99
84	t	Pyrene	1.382	1.168	15.5	80	-0.01	11.36
86	t	Butylbenzylphthalate	0.629	0.559	11.1	83	-0.01	12.96
87	t	Benzo[a]anthracene	1.252	1.064	15.0	84	-0.02	13.96
89	t	Chrysene	1.181	0.954	19.2	79	0.00	14.04
90	t	bis(2-Ethylhexyl)phthalat	0.853	0.742	13.0	82	-0.02	14.37
91	I	Perylene-d12	1.000	1.000	0.0	92	-0.03	17.00
92	t	Di-n-octylphthalate	1.642	1.430	12.9	84	-0.01	15.81
93	t	Benzo[b]fluoranthene	1.345	1.091	18.9	82	0.00	16.26
94	t	Benzo[k]fluoranthene	1.268	1.085	14.4	85	0.00	16.32
95	t	Benzo[a]pyrene	1.195	1.033	13.6	86	-0.01	16.89
96	t	Indeno[1,2,3-cd]pyrene	1.064	0.961	9.7	89	0.00	18.94
98	t	Dibenz[a,h]anthracene	1.088	0.928	14.7	85	0.00	19.00
100	t	Benzo[g,h,i]perylene	1.101	0.961	12.7	87	0.00	19.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Fri Jun 17 09:19:28 2016 RTE

6.7.75

6

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EZ5575-ICV5573
Lab FileID: Z111565A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5575\Z111565a.D          Vial: 2
Acq On    : 16 Jun 2016   8:58 am                    Operator: ariellec
Sample    : icv5573-50                               Inst    : MSZ
Misc      : op94271,ez5575                           Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:33:31 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.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	105	-0.01	4.63
102	Benzaldehyde	1.017	1.093	-7.5	116	-0.01	4.31
103	Phenanthrene-d10a	1.000	1.000	0.0	94	-0.02	8.77
106	Atrazine	0.098	0.104	-6.1	99	0.00	8.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 10:07:46 2016 RTE

Initial Calibration Verification

Job Number: JC22206 **Sample:** EZ5575-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111565.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5575\Z111565.D          Vial: 2
Acq On    : 16 Jun 2016   8:58 am                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5575                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 10:11:54 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	106	-0.01	4.63
2		1,4-Dioxane	0.584	0.540	7.5	99	0.00	2.17
6	t	Indene	2.366	2.266	4.2	110	0.00	4.82
7	t	Cumene	3.483	3.111	10.7	98	0.00	4.04
13	t	Decane	1.246	1.132	9.1	103	0.00	4.53
18	t	Acetophenone	1.908	1.739	8.9	104	-0.01	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	105	-0.01	5.55
27	t	Quinoline	0.757	0.647	14.5	94	-0.01	5.80
40	t	2,3-Dichloroaniline	0.380	0.294	22.6	88	-0.01	6.28
41	t	Caprolactam	0.150	0.121	19.3	88	0.00	5.83
45	t	1-Methylnaphthalene	0.643	0.542	15.7	95	-0.01	6.14
46	t	Dimethylnaphthalene	0.661	0.554	16.2	94	-0.01	6.56
47	I	Acenaphthene-d10	1.000	1.000	0.0	99	-0.02	6.94
53	t	Biphenyl	1.520	1.352	11.1	94	-0.01	6.43
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	-0.02	8.77
		----------	AvgRF	CCRF	% Dev	----------		
82	t	Octadecane	0.449	0.426	5.1	93	-0.02	8.69
83	I	Chrysene-d12	1.000	1.000	0.0	99	-0.04	13.96
91	I	Perylene-d12	1.000	1.000	0.0	94	-0.05	16.98
99	t	7,12-Dimethylbenz(a)anthr	0.582	0.556	4.5	93	-0.03	16.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Fri Jun 17 10:12:14 2016 RTE

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EZ5596-CC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111966.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5596\Z111966.D          Vial: 2
Acq On    : 29 Jun 2016  11:55 am                   Operator: ariellec
Sample    : cc5571-25                               Inst    : MSZ
Misc      : op94978,ez5596                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Wed Jun 29 14:07:58 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	75	0.00	4.62
2		1,4-Dioxane	0.584	0.730	-25.0#	97	-0.02	2.14
3	t	Pyridine	1.595	1.824	-14.4	91	-0.02	2.48
4	t	N-Nitrosodimethylamine	0.894	1.056	-18.1	90	-0.01	2.44
5	S	2-Fluorophenol	1.383	1.409	-1.9	78	0.03	3.65
6	t	Indene	2.366	2.499	-5.6	82	0.00	4.80
7	t	Cumene	3.483	3.657	-5.0	79	0.00	4.02
8	S	Phenol-d5	1.749	1.833	-4.8	80	0.04	4.38
9	t	Phenol	1.899	2.202	-16.0	84	0.04	4.39
10	t	Aniline	2.093	2.379	-13.7	91	0.02	4.38
11	t	bis(2-Chloroethyl)ether	1.243	1.314	-5.7	81	0.00	4.42
12	t	2-Chlorophenol	1.470	1.536	-4.5	81	0.00	4.47
13	t	Decane	1.246	1.333	-7.0	82	0.00	4.50
14	t	1,3-Dichlorobenzene	1.613	1.545	4.2	74	0.00	4.57
15	t	1,4-Dichlorobenzene	1.607	1.527	5.0	74	0.00	4.63
16	t	Benzyl alcohol	0.889	0.944	-6.2	82	0.01	4.72
17	t	1,2-Dichlorobenzene	1.480	1.432	3.2	75	0.00	4.74
18	t	Acetophenone	1.908	1.992	-4.4	81	0.00	4.91
19	t	2-Methylphenol	1.239	1.288	-4.0	79	0.01	4.82
20	t	2,2'-oxybis(1-Chloropropa	0.404	0.409	-1.2	78	0.00	4.81
21	t	3&4-Methylphenol	1.296	1.402	-8.2	83	0.01	4.93
22	t	n-Nitroso-di-n-propylamin	1.031	1.114	-8.1	83	0.00	4.91
23	t	Hexachloroethane	0.539	0.464	13.9	66	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	80	0.00	5.54
25	S	Nitrobenzene-d5	0.378	0.399	-5.6	84	0.00	5.02
26	t	Nitrobenzene	0.391	0.386	1.3	79	0.00	5.03
27	t	Quinoline	0.757	0.725	4.2	79	0.00	5.79
28	t	Isophorone	0.720	0.705	2.1	80	0.00	5.20
29	t	2-Nitrophenol	0.179	0.210	-17.3	88	0.00	5.26
30	t	2,4-Dimethylphenol	0.354	0.380	-7.3	91	0.01	5.31
31		Benzoic Acid	0.229	0.227	0.9	77	0.06	5.39
32	t	bis(2-Chloroethoxy)methan	0.408	0.405	0.7	83	0.00	5.35
33	t	2,4-Dichlorophenol	0.310	0.287	7.4	74	0.02	5.45
34		2,6-Dichlorophenol	0.290	0.276	4.8	77	0.01	5.60
35	t	1,3,5-Trichlorobenzene	0.357	0.313	12.3	72	0.00	5.27
36	t	1,2,4-Trichlorobenzene	0.339	0.291	14.2	70	0.00	5.50
37	t	1,2,3-Trichlorobenzene	0.327	0.282	13.8	71	0.00	5.66
38	t	Naphthalene	1.065	0.995	6.6	78	0.00	5.55
39	t	4-Chloroaniline	0.457	0.437	4.4	78	0.00	5.59
40	t	2,3-Dichloroaniline	0.380	0.344	9.5	76	0.00	6.27
41	t	Caprolactam	0.150	0.148	1.3	82	0.03	5.84

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EZ5596-CC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111966.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.188	0.148	21.3#	64	-0.01	5.64
43	t	4-Chloro-3-methylphenol	0.327	0.336	-2.8	82	0.02	5.95
44	t	2-Methylnaphthalene	0.621	0.569	8.4	74	0.00	6.05
45	t	1-Methylnaphthalene	0.643	0.594	7.6	76	0.00	6.12
46	t	Dimethylnaphthalene	0.661	0.600	9.2	74	0.00	6.54
47	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00	6.92
48	t	Hexachlorocyclopentadiene	0.345	0.236	31.6#	49#	0.00	6.17
49	t	2,4,6-Trichlorophenol	0.368	0.349	5.2	71	0.01	6.27
50	t	2,4,5-Trichlorophenol	0.389	0.360	7.5	72	0.02	6.31
51	S	2-Fluorobiphenyl	1.293	1.176	9.0	71	0.00	6.33
52	t	2-Chloronaphthalene	1.169	1.094	6.4	74	0.00	6.43
53	t	Biphenyl	1.520	1.470	3.3	76	0.00	6.41
54	t	2-Nitroaniline	0.315	0.388	-23.2#	87	0.01	6.51
55	t	Dimethylphthalate	1.348	1.252	7.1	72	0.00	6.66
56	t	Acenaphthylene	1.937	1.837	5.2	73	0.00	6.79
57	t	2,6-Dinitrotoluene	0.248	0.280	-12.9	78	0.01	6.72
58	t	3-Nitroaniline	0.304	0.337	-10.9	81	0.02	6.89
59	t	Acenaphthene	1.164	1.142	1.9	77	0.00	6.96
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	43.302	13.4	71	0.03	7.00
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.169	0.177	-4.7	76	0.06	7.08
62	t	Dibenzofuran	1.649	1.516	8.1	71	0.00	7.13
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	25.000	26.434	-5.7	79	0.03	7.12
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.322	0.277	14.0	65	0.03	7.28
65	t	Diethylphthalate	1.369	1.289	5.8	74	0.00	7.37
66	t	Fluorene	1.331	1.269	4.7	75	0.01	7.51
67	t	4-Chlorophenyl-phenylethe	0.625	0.553	11.5	68	0.00	7.50
68	t	4-Nitroaniline	0.311	0.314	-1.0	72	0.04	7.53
69	I	Phenanthrene-d10	1.000	1.000	0.0	74	0.01	8.77
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	24.374	2.5	74	0.03	7.59
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.518	6.2	70	0.00	7.64
72	t	1,2-Diphenylhydrazine	0.814	0.847	-4.1	79	0.00	7.69
73	S	2,4,6-Tribromophenol	0.089	0.078	12.4	62	0.00	7.80
74	t	4-Bromophenyl-phenylether	0.219	0.182	16.9	61	0.00	8.12
75	t	Hexachlorobenzene	0.228	0.191	16.2	62	0.00	8.22
76	t	Pentachlorophenol	0.139	0.096	30.9#	47#	0.03	8.51
77	t	Phenanthrene	1.116	1.071	4.0	72	0.00	8.80
78	t	Anthracene	1.143	1.091	4.5	72	0.01	8.88
79	t	Carbazole	1.109	1.051	5.2	71	0.02	9.16
80	t	Di-n-butylphthalate	1.362	1.374	-0.9	73	0.00	9.83
81	t	Fluoranthene	1.251	1.151	8.0	68	0.03	10.92
82	t	Octadecane	0.449	0.520	-15.8	86	-0.02	8.65
83	I	Chrysene-d12	1.000	1.000	0.0	79	0.02	14.00
84	t	Pyrene	1.382	1.195	13.5	69	0.00	11.36
85	S	Terphenyl-d14	0.866	0.718	17.1	66	0.00	11.77
86	t	Butylbenzylphthalate	0.629	0.642	-2.1	80	-0.02	12.93

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EZ5596-CC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111966.D
Project: BMSMC, Building 5 Area, PR

87	t	Benzo[a]anthracene	1.252	1.173	6.3	77	0.02	13.98
88	t	3,3'-Dichlorobenzidine	0.451	0.398	11.8	71	0.01	14.01
89	t	Chrysene	1.181	1.129	4.4	79	0.02	14.05
90	t	bis(2-Ethylhexyl)phthalat	0.853	0.936	-9.7	87	-0.03	14.34
91	I	Perylene-d12	1.000	1.000	0.0	82	0.01	17.04
92	t	Di-n-octylphthalate	1.642	1.803	-9.8	91	-0.04	15.78
93	t	Benzo[b]fluoranthene	1.345	1.258	6.5	79	0.03	16.29
94	t	Benzo[k]fluoranthene	1.268	1.210	4.6	82	0.03	16.34
95	t	Benzo[a]pyrene	1.195	1.142	4.4	81	0.03	16.92
96	t	Indeno[1,2,3-cd]pyrene	1.064	1.031	3.1	83	0.04	18.98
97	t	Dibenz(a,h)acridine	0.997	0.990	0.7	85	0.03	18.61
98	t	Dibenz[a,h]anthracene	1.088	1.062	2.4	84	0.00	19.03
99	t	7,12-Dimethylbenz(a)anthr	0.582	0.606	-4.1	85	0.01	16.29
100	t	Benzo[g,h,i]perylene	1.101	1.083	1.6	85	0.04	19.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111548a.D MZ5571.M Wed Jun 29 14:11:40 2016 RTE

6.7.78

6

Continuing Calibration Summary

Job Number: JC22206 **Sample:** EZ5596-CC5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111967.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5596\Z111967.D          Vial: 3
Acq On    : 29 Jun 2016  12:25 pm                   Operator: ariellec
Sample    : cc5573-25                               Inst    : MSZ
Misc      : op94978,ez5596                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Wed Jun 29 14:07:58 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	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	103	0.00	4.62
102	Benzaldehyde	1.017	1.117	-9.8	110	0.00	4.29
103	Phenanthrene-d10a	1.000	1.000	0.0	97	0.00	8.76
104	Atrazine	0.098	0.101	-3.1	101	0.00	8.37
105	Chrysene-d12a	1.000	1.000	0.0	103	0.01	13.99
106	Benzidine	0.454	0.355	21.8#	57	0.00	11.25
107	Acenaphthene-d10a	1.000	1.000	0.0	99	0.00	6.92
108	1,2,4,5-Tetrachlorobenzen	0.505	0.473	6.3	95	0.00	6.18
109 I	Naphthalene-d8a	1.000	1.000	0.0	105	0.00	5.54
110	Hydroquinone	0.271	0.370	-36.5#	129	0.03	5.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111548a.D MZ5571.M Wed Jun 29 14:11:42 2016 RTE

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158276.D Vial: 23
Acq On : 23 Jun 2016 9:49 pm Operator: brittanp
Sample : jc22206-1 Inst : MSF
Misc : op94835,ef6662,930 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 22:10:58 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 16:48:39 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

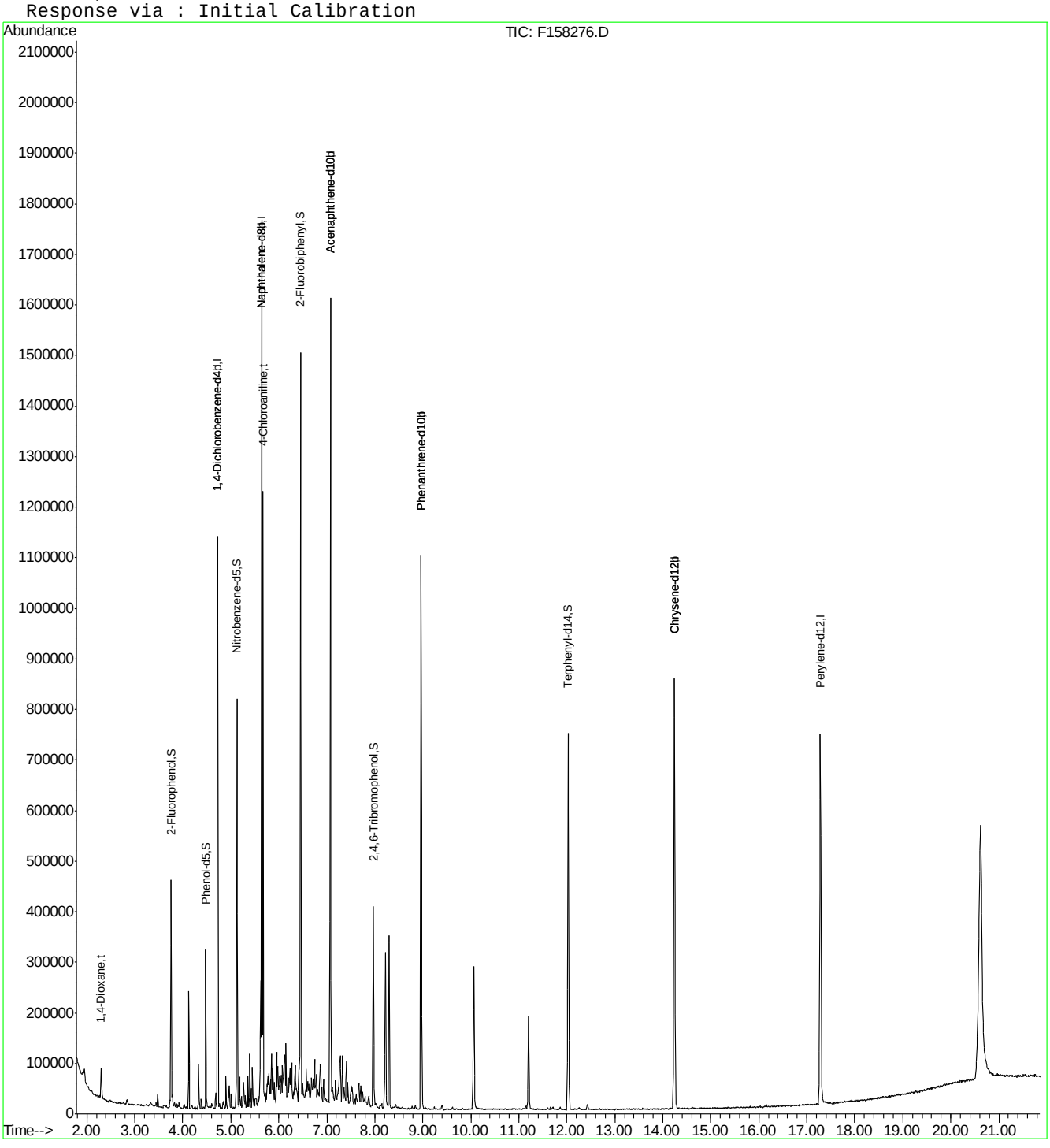
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	149329	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	578674	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	336127	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	540614	40.00	ppm	0.00
83) Chrysene-d12	14.24	240	465421	40.00	ppm	0.00
92) Perylene-d12	17.28	264	409854	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.72	152	149329	40.00	ppm	0.00
104) Naphthalene-d8b	5.65	136	578674	40.00	ppm	0.00
106) Acenaphthene-d10b	7.07	164	336127	40.00	ppm	0.00
108) Phenanthrene-d10b	8.96	188	540614	40.00	ppm	0.00
110) Chrysene-d12b	14.24	240	465421	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.76	112	122625	22.05	ppm	-0.08
Spiked Amount 50.000			Recovery = 44.10%			
8) Phenol-d5	4.48	99	99007	13.75	ppm	0.03
Spiked Amount 50.000			Recovery = 27.50%			
25) Nitrobenzene-d5	5.13	82	185071	31.97	ppm	-0.02
Spiked Amount 50.000			Recovery = 63.94%			
51) 2-Fluorobiphenyl	6.45	172	377213	35.67	ppm	0.01
Spiked Amount 50.000			Recovery = 71.34%			
73) 2,4,6-Tribromophenol	7.97	330	42215	43.22	ppm	0.00
Spiked Amount 50.000			Recovery = 86.44%			
85) Terphenyl-d14	12.03	244	344322	37.13	ppm	-0.03
Spiked Amount 50.000			Recovery = 74.26%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.29	88	34599	12.62	ppm	90
39) 4-Chloroaniline	5.67	127	47593	6.97	ppm	51

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

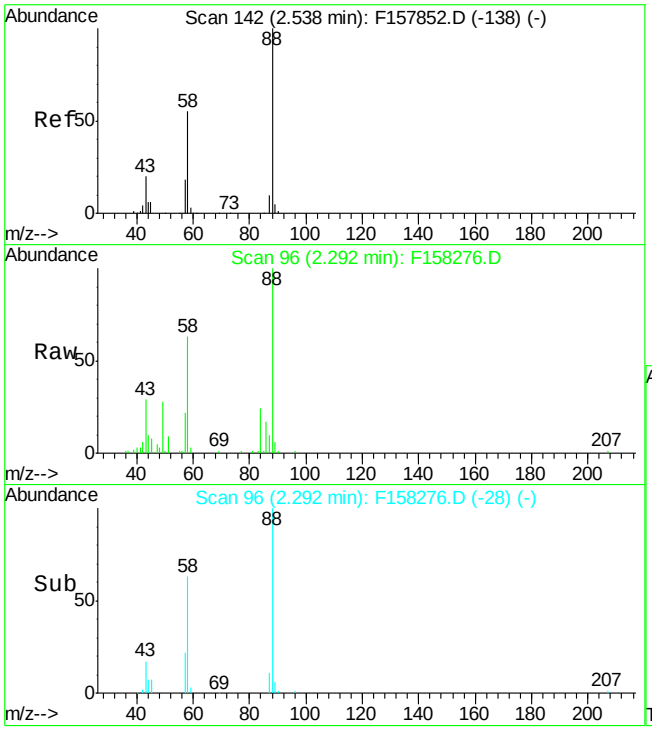
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158276.D Vial: 23
Acq On : 23 Jun 2016 9:49 pm Operator: brittanp
Sample : jc22206-1 Inst : MSF
Misc : op94835,ef6662,930 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 9:48 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 07:49:27 2016
Response via : Initial Calibration



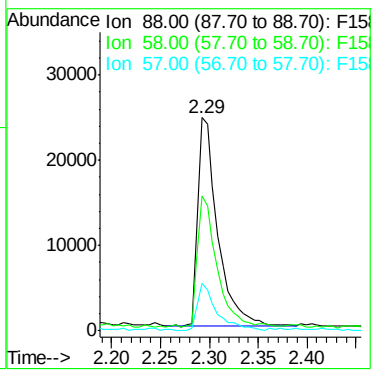
SGS ACCUTEST JC22206

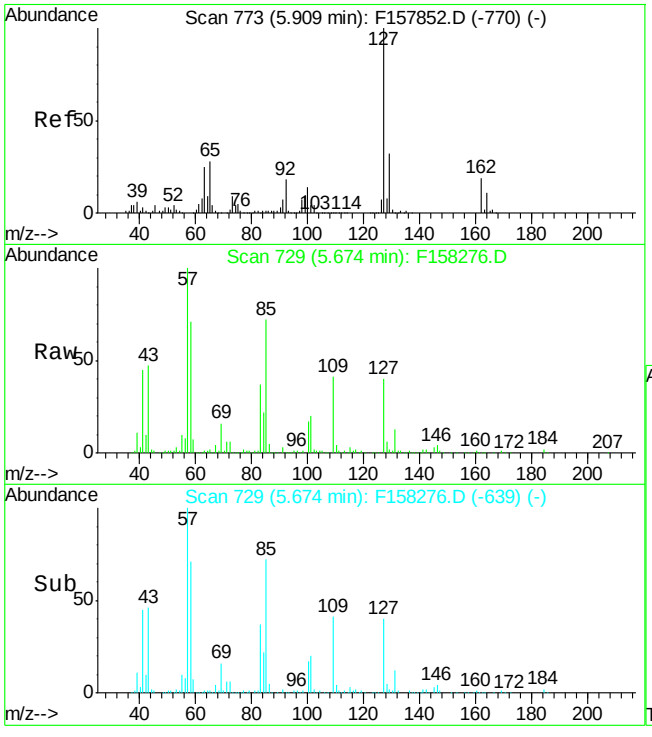


#2
1,4-Dioxane
Concen: 12.62 ppm
RT: 2.29 min Scan# 96
Delta R.T. -0.14 min
Lab File: F158276.D
Acq: 23 Jun 2016 9:49 pm

Tgt Ion: 88 Resp: 34599

Ion	Ratio	Lower	Upper
88	100		
58	62.6	24.9	84.9
57	21.9	0.0	48.3

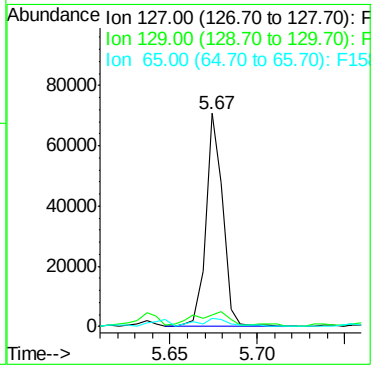




#39
4-Chloroaniline
Concen: 6.97 ppm
RT: 5.67 min Scan# 729
Delta R.T. -0.02 min
Lab File: F158276.D
Acq: 23 Jun 2016 9:49 pm

Tgt Ion:127 Resp: 47593

Ion	Ratio	Lower	Upper
127	100		
129	4.9	2.1	62.1
65	2.0	0.0	58.4



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158277.D Vial: 24
Acq On : 23 Jun 2016 10:18 pm Operator: brittanp
Sample : jc22206-2 Inst : MSF
Misc : op94835,ef6662,920 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 10:01:10 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 07:49:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	168740	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	653044	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	380605	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	610220	40.00	ppm	0.00
83) Chrysene-d12	14.24	240	552450	40.00	ppm	0.00
92) Perylene-d12	17.29	264	474608	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.72	152	168740	40.00	ppm	0.00
104) Naphthalene-d8b	5.65	136	653044	40.00	ppm	0.00
106) Acenaphthene-d10b	7.07	164	380605	40.00	ppm	0.00
108) Phenanthrene-d10b	8.96	188	610220	40.00	ppm	0.00
110) Chrysene-d12b	14.24	240	552450	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.76	112	157673	25.09	ppm	-0.08
Spiked Amount 50.000			Recovery = 50.18%			
8) Phenol-d5	4.48	99	136316	16.76	ppm	0.03
Spiked Amount 50.000			Recovery = 33.52%			
25) Nitrobenzene-d5	5.13	82	240473	36.81	ppm	-0.02
Spiked Amount 50.000			Recovery = 73.62%			
51) 2-Fluorobiphenyl	6.45	172	495288	41.36	ppm	0.01
Spiked Amount 50.000			Recovery = 82.72%			
73) 2,4,6-Tribromophenol	7.97	330	57408	52.07	ppm	0.00
Spiked Amount 50.000			Recovery = 104.14%			
85) Terphenyl-d14	12.03	244	457104	41.53	ppm	-0.03
Spiked Amount 50.000			Recovery = 83.06%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.30	88	2717	0.88	ppm	97
45) 1-Methylnaphthalene	6.24	141	25404	2.40	ppm	96
66) Fluorene	7.67	166	8528	0.71	ppm	93

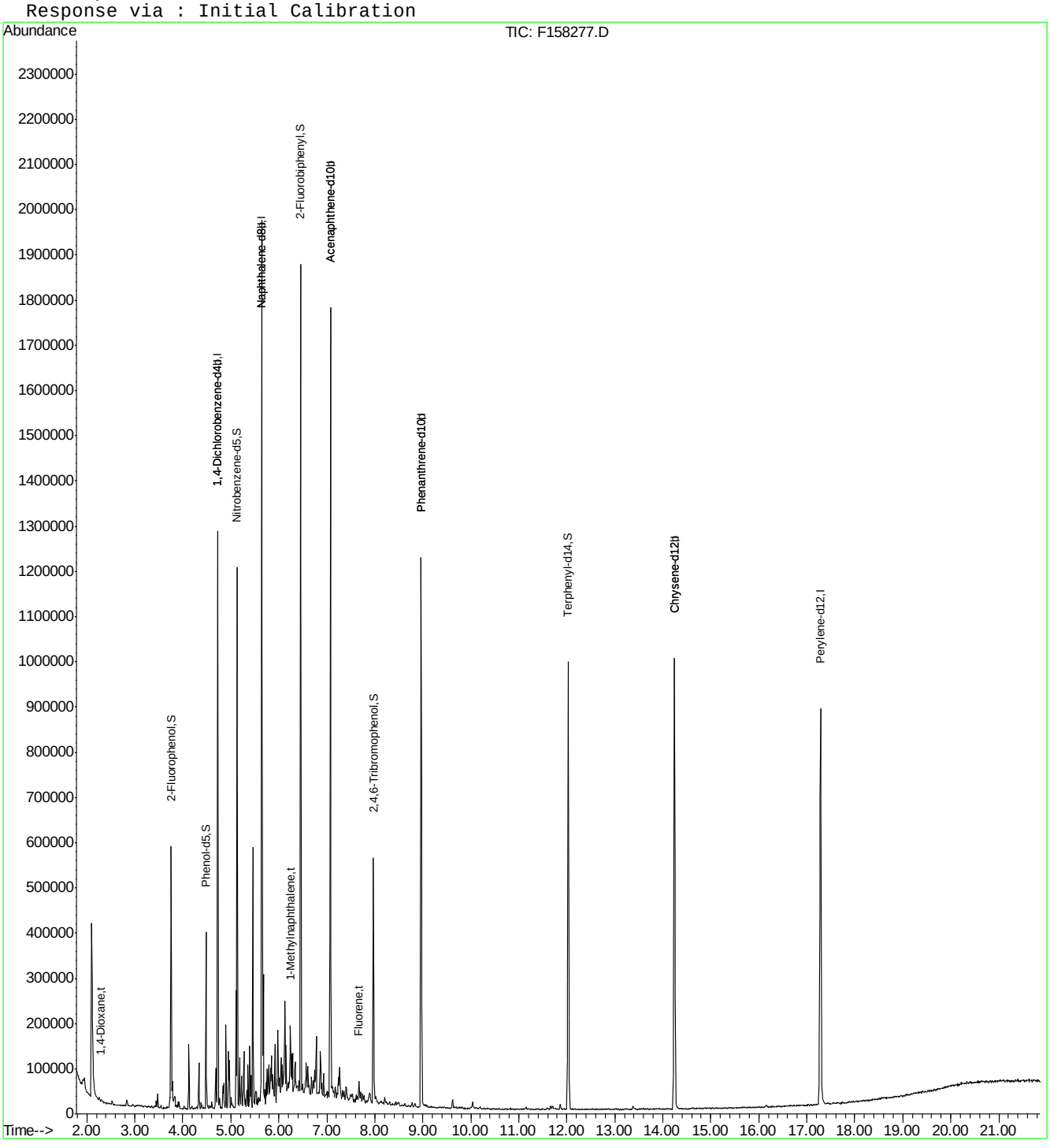
(#) = qualifier out of range (m) = manual integration (+) = signals summed

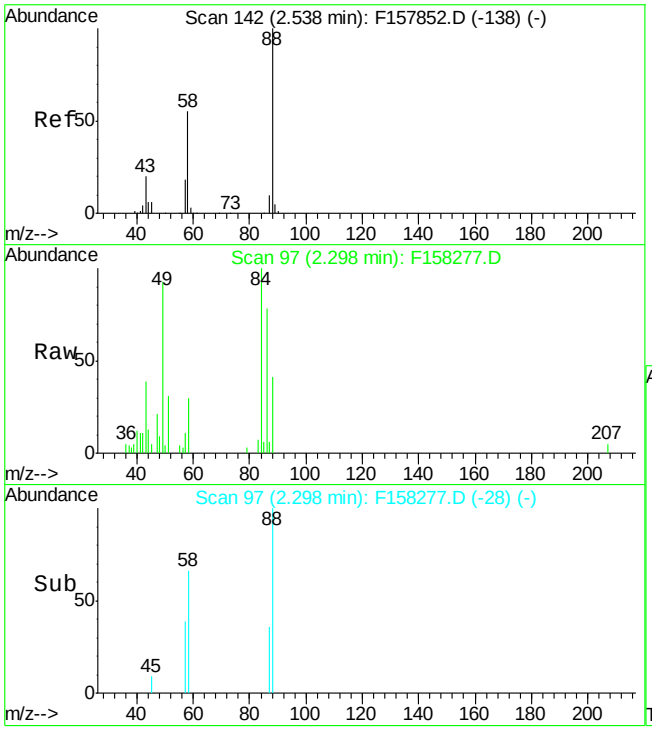
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158277.D Vial: 24
Acq On : 23 Jun 2016 10:18 pm Operator: brittanp
Sample : jc22206-2 Inst : MSF
Misc : op94835,ef6662,920 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 10:01 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 07:49:27 2016
Response via : Initial Calibration

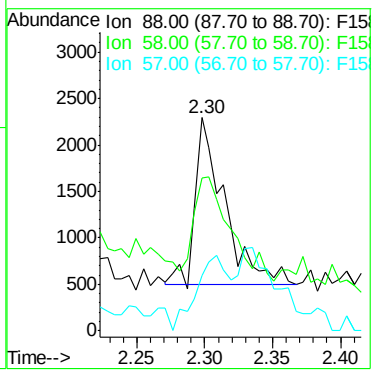


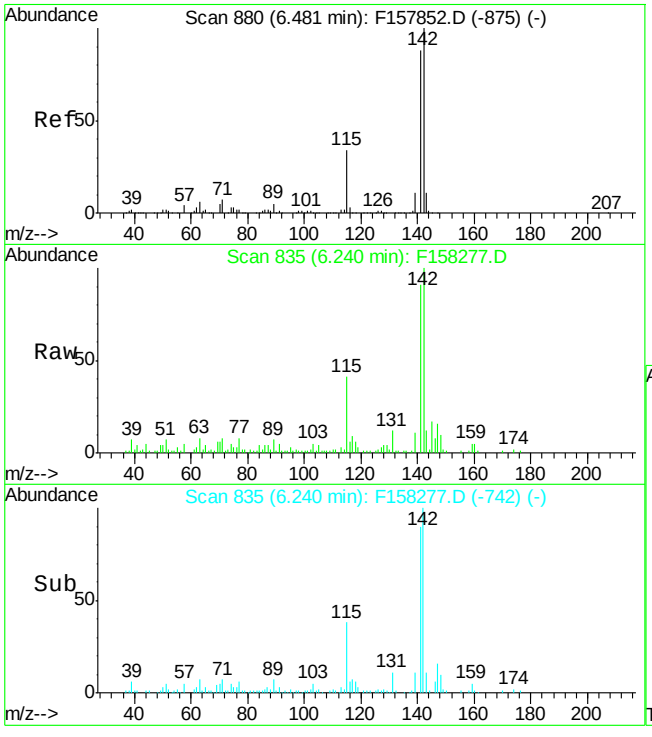


#2
1,4-Dioxane
Concen: 0.88 ppm
RT: 2.30 min Scan# 97
Delta R.T. -0.13 min
Lab File: F158277.D
Acq: 23 Jun 2016 10:18 pm

Tgt Ion: 88 Resp: 2717

Ion	Ratio	Lower	Upper
88	100		
58	53.7	24.9	84.9
57	20.9	0.0	48.3

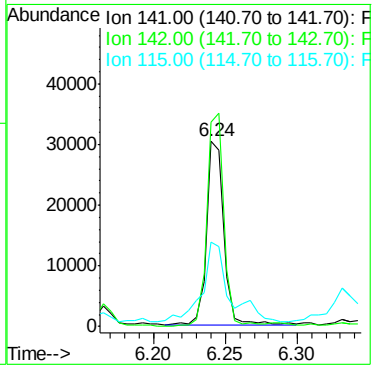


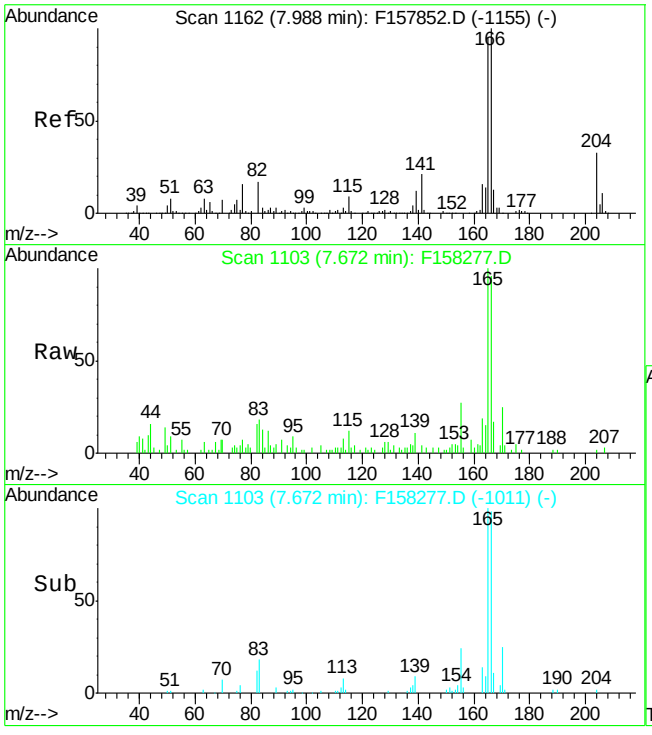


#45
1-Methylnaphthalene
Concen: 2.40 ppm
RT: 6.24 min Scan# 835
Delta R.T. -0.00 min
Lab File: F158277.D
Acq: 23 Jun 2016 10:18 pm

Tgt Ion:141 Resp: 25404

Ion	Ratio	Lower	Upper
141	100		
142	111.1	84.2	144.2
115	42.7	8.9	68.9

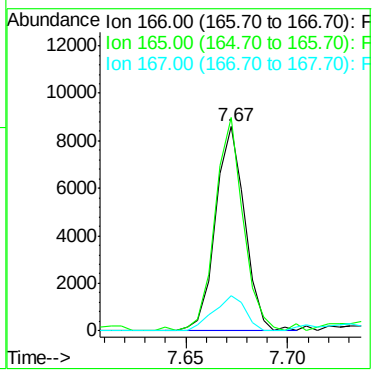




#66
Fluorene
Concen: 0.71 ppm
RT: 7.67 min Scan# 1103
Delta R.T. -0.01 min
Lab File: F158277.D
Acq: 23 Jun 2016 10:18 pm

Tgt Ion:166 Resp: 8528

Ion	Ratio	Lower	Upper
166	100		
165	101.5	65.0	125.0
167	16.3	0.0	43.4



7.1.2

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158293.D Vial: 5
Acq On : 24 Jun 2016 9:26 am Operator: brittanp
Sample : jc22206-3 Inst : MSF
Misc : op94835,ef6663,940 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 09:48:39 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 07:49:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

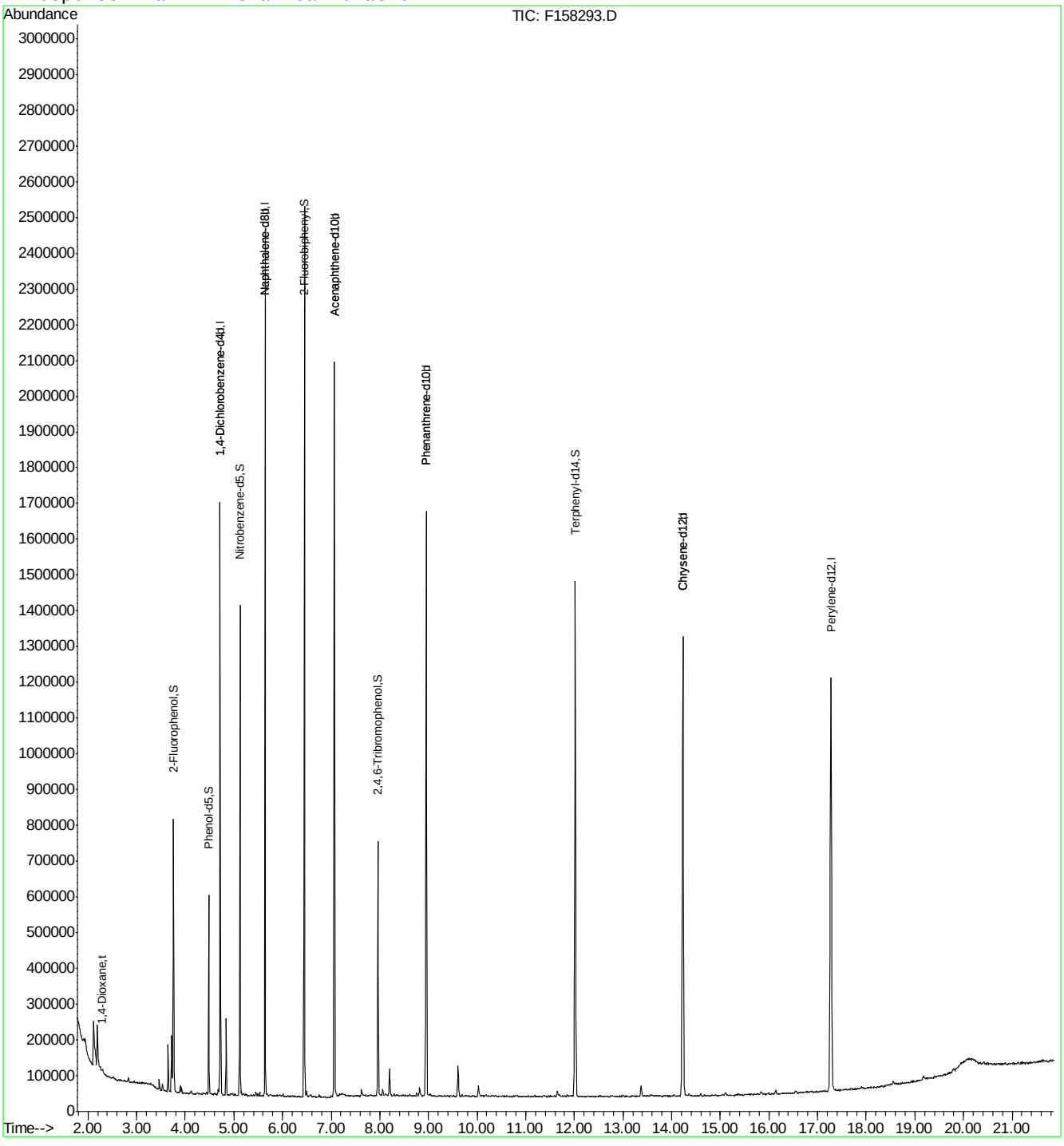
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	217884	40.00	ppm	0.00
24) Naphthalene-d8	5.64	136	843610	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	502809	40.00	ppm	0.00
69) Phenanthrene-d10	8.95	188	820252	40.00	ppm	-0.01
83) Chrysene-d12	14.23	240	735653	40.00	ppm	-0.01
92) Perylene-d12	17.28	264	673269	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.72	152	217884	40.00	ppm	0.00
104) Naphthalene-d8b	5.64	136	843610	40.00	ppm	0.00
106) Acenaphthene-d10b	7.07	164	502809	40.00	ppm	0.00
108) Phenanthrene-d10b	8.95	188	820252	40.00	ppm	-0.01
110) Chrysene-d12b	14.23	240	735653	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.76	112	213305	26.29	ppm	-0.08
Spiked Amount 50.000			Recovery = 52.58%			
8) Phenol-d5	4.48	99	176250	16.78	ppm	0.03
Spiked Amount 50.000			Recovery = 33.56%			
25) Nitrobenzene-d5	5.12	82	336835	39.91	ppm	-0.02
Spiked Amount 50.000			Recovery = 79.82%			
51) 2-Fluorobiphenyl	6.45	172	676126	42.74	ppm	0.00
Spiked Amount 50.000			Recovery = 85.48%			
73) 2,4,6-Tribromophenol	7.97	330	83302	56.21	ppm	0.00
Spiked Amount 50.000			Recovery = 112.42%			
85) Terphenyl-d14	12.02	244	677053	46.20	ppm	-0.05
Spiked Amount 50.000			Recovery = 92.40%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.29	88	5278	1.32	ppm	78

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

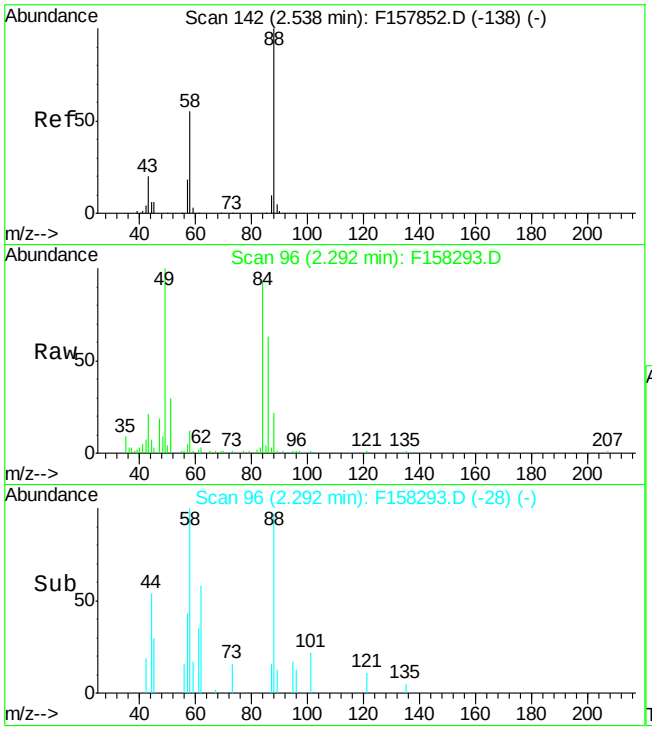
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158293.D Vial: 5
Acq On : 24 Jun 2016 9:26 am Operator: brittanp
Sample : jc22206-3 Inst : MSF
Misc : op94835,ef6663,940 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:39 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:21:28 2016
Response via : Initial Calibration



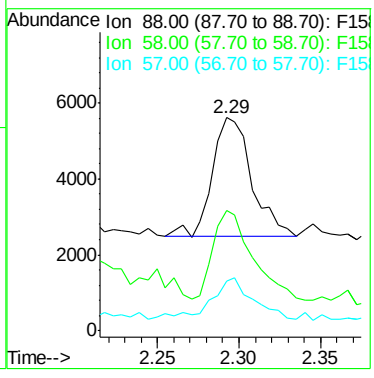
F158293.D MF6644.M Fri Jun 24 11:39:45 2016 RT1 Page 2



#2
1,4-Dioxane
Concen: 1.32 ppm
RT: 2.29 min Scan# 96
Delta R.T. -0.14 min
Lab File: F158293.D
Acq: 24 Jun 2016 9:26 am

Tgt Ion: 88 Resp: 5278

Ion	Ratio	Lower	Upper
88	100		
58	69.5	24.9	84.9
57	29.6	0.0	48.3



7.1.3

7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158384.D Vial: 18
Acq On : 27 Jun 2016 4:02 pm Operator: brittanp
Sample : jc22206-4 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 16:24:26 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	236979	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	943639	40.00	ppm	-0.01
47) Acenaphthene-d10	7.01	164	539278	40.00	ppm	-0.01
69) Phenanthrene-d10	8.88	188	847866	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	771824	40.00	ppm	-0.04
92) Perylene-d12	17.19	264	715624	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	236979	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	943639	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.01	164	539278	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.88	188	847866	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	771824	40.00	ppm	-0.04

System Monitoring Compounds

5) 2-Fluorophenol	3.70	112	241301	27.34	ppm	-0.02
Spiked Amount 50.000			Recovery = 54.68%			
8) Phenol-d5	4.43	99	205225	17.97	ppm	-0.02
Spiked Amount 50.000			Recovery = 35.94%			
25) Nitrobenzene-d5	5.09	82	385246	40.81	ppm	-0.01
Spiked Amount 50.000			Recovery = 81.62%			
51) 2-Fluorobiphenyl	6.40	172	679253	40.03	ppm	-0.01
Spiked Amount 50.000			Recovery = 80.06%			
73) 2,4,6-Tribromophenol	7.90	330	80526	52.57	ppm	-0.03
Spiked Amount 50.000			Recovery = 105.14%			
85) Terphenyl-d14	11.94	244	687896	44.74	ppm	-0.03
Spiked Amount 50.000			Recovery = 89.48%			

Target Compounds

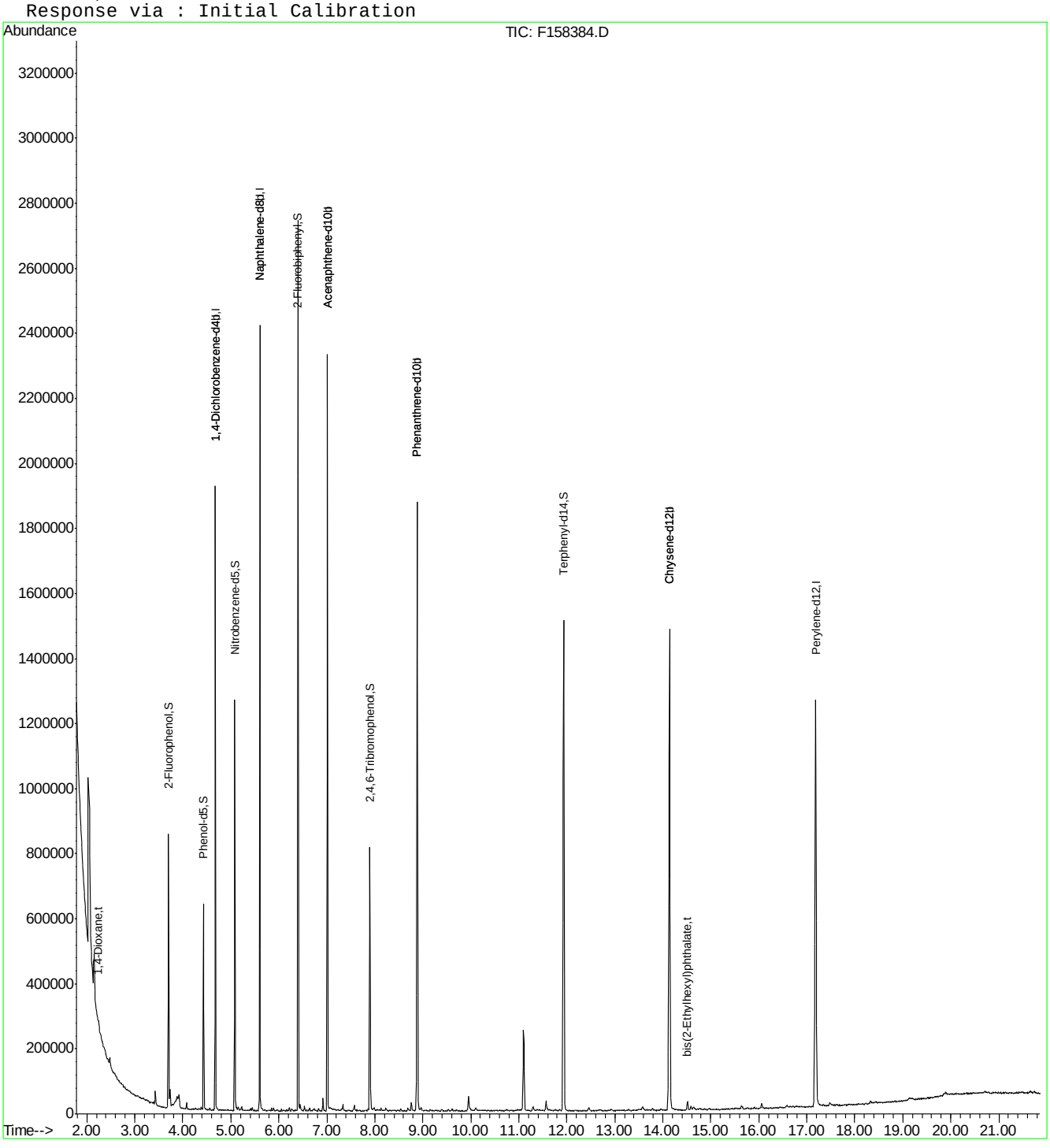
						Qvalue
2) 1,4-Dioxane	2.24	88	10803	2.48	ppm	91
91) bis(2-Ethylhexyl)phthalate	14.52	149	12126	2.08	ppm	98

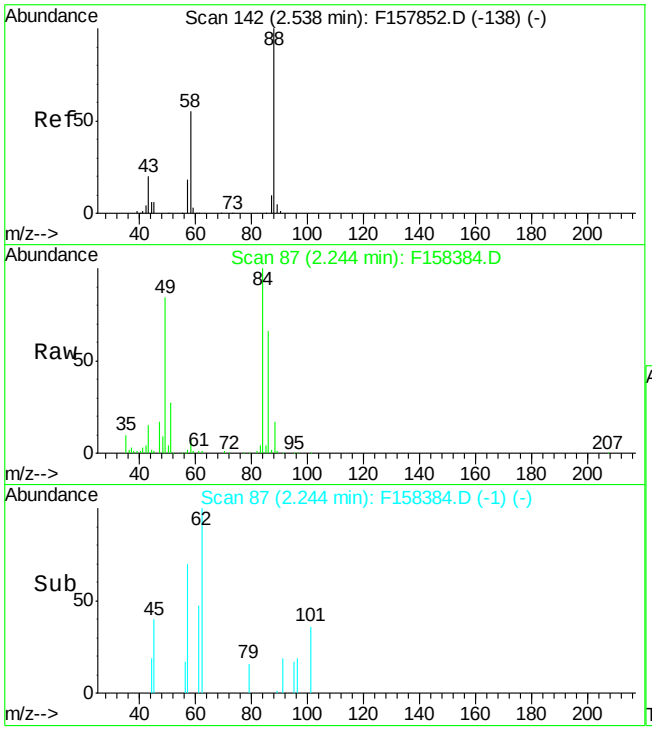
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158384.D Vial: 18
Acq On : 27 Jun 2016 4:02 pm Operator: brittanp
Sample : jc22206-4 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 13:30 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration

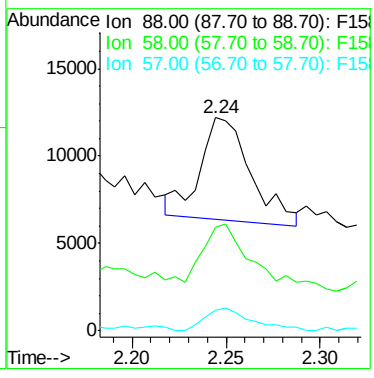


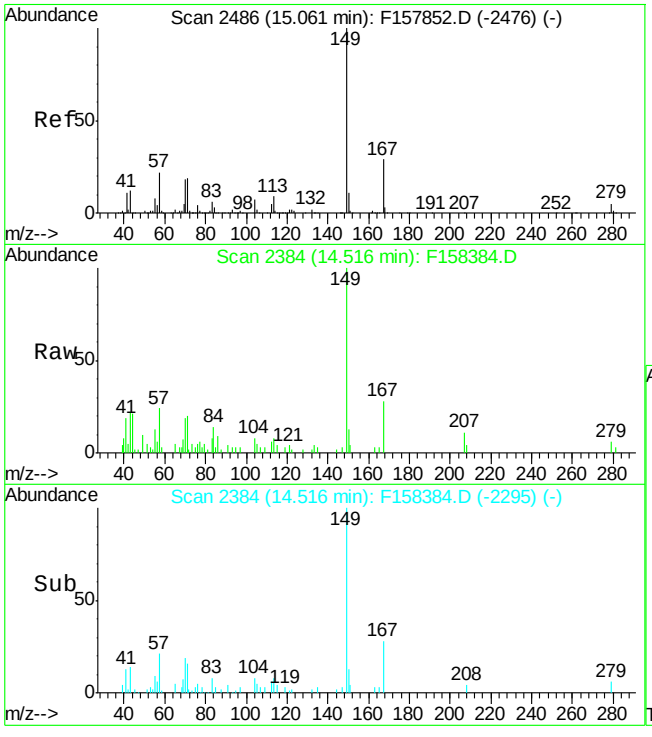


#2
1,4-Dioxane
Concen: 2.48 ppm
RT: 2.24 min Scan# 87
Delta R.T. 0.00 min
Lab File: F158384.D
Acq: 27 Jun 2016 4:02 pm

Tgt Ion: 88 Resp: 10803

Ion	Ratio	Lower	Upper
88	100		
58	62.6	24.1	84.1
57	19.1	0.0	48.8

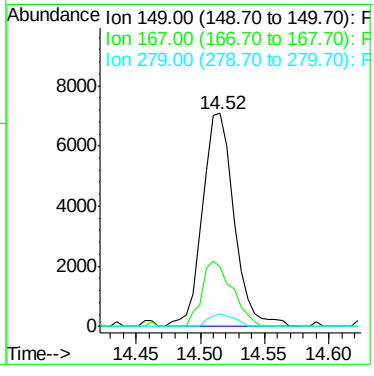




#91
bis(2-Ethylhexyl)phthalate
Concen: 2.08 ppm
RT: 14.52 min Scan# 2384
Delta R.T. -0.03 min
Lab File: F158384.D
Acq: 27 Jun 2016 4:02 pm

Tgt Ion:149 Resp: 12126

Ion	Ratio	Lower	Upper
149	100		
167	28.2	0.0	58.9
279	6.2	0.0	34.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158385.D Vial: 19
Acq On : 27 Jun 2016 4:31 pm Operator: brittanp
Sample : jc22206-5 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 16:53:56 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

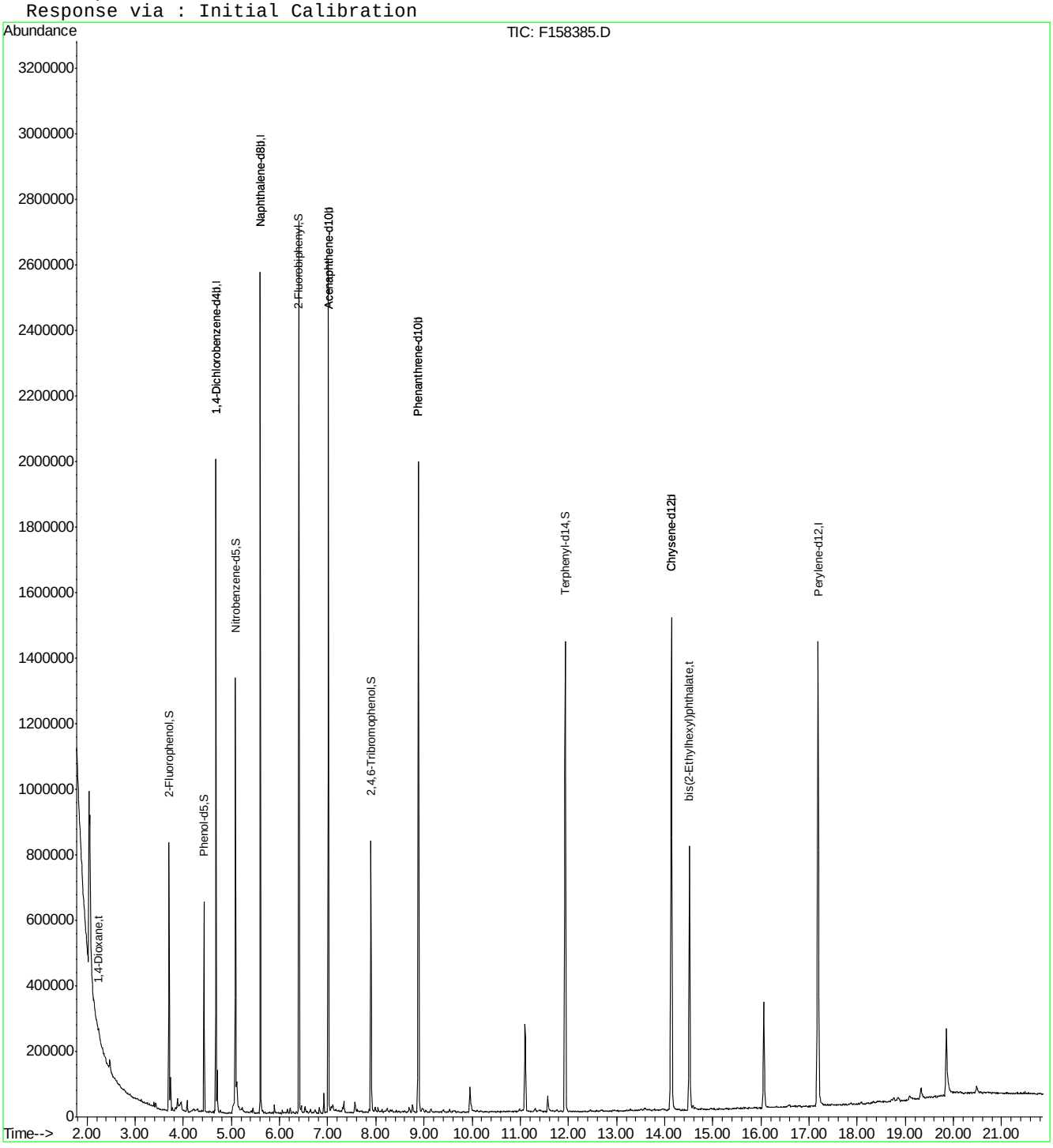
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	249881	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	986920	40.00	ppm	-0.01
47) Acenaphthene-d10	7.02	164	587437	40.00	ppm	-0.01
69) Phenanthrene-d10	8.89	188	931435	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	836869	40.00	ppm	-0.04
92) Perylene-d12	17.19	264	776111	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	249881	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	986920	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.02	164	587437	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.89	188	931435	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	836869	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.70	112	235736	25.33	ppm	-0.02
Spiked Amount 50.000			Recovery = 50.66%			
8) Phenol-d5	4.43	99	204229	16.96	ppm	-0.02
Spiked Amount 50.000			Recovery = 33.92%			
25) Nitrobenzene-d5	5.09	82	397934	40.31	ppm	-0.01
Spiked Amount 50.000			Recovery = 80.62%			
51) 2-Fluorobiphenyl	6.40	172	712777	38.56	ppm	-0.01
Spiked Amount 50.000			Recovery = 77.12%			
73) 2,4,6-Tribromophenol	7.90	330	83323	49.51	ppm	-0.02
Spiked Amount 50.000			Recovery = 99.02%			
85) Terphenyl-d14	11.94	244	665313	39.90	ppm	-0.03
Spiked Amount 50.000			Recovery = 79.80%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.24	88	14669	3.20	ppm	94
91) bis(2-Ethylhexyl)phthalate	14.52	149	367817	18.95	ppm	97

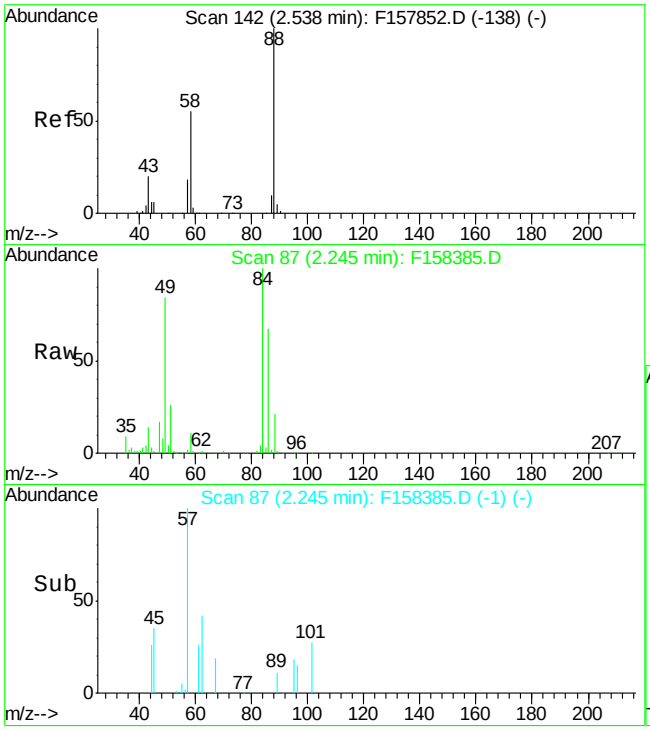
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158385.D Vial: 19
Acq On : 27 Jun 2016 4:31 pm Operator: brittanp
Sample : jc22206-5 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 13:31 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration

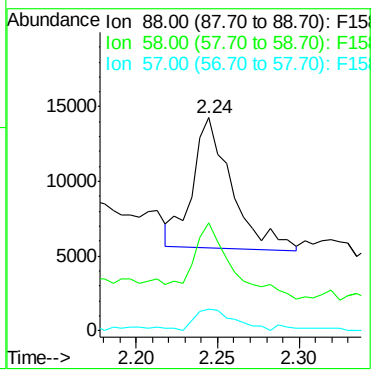


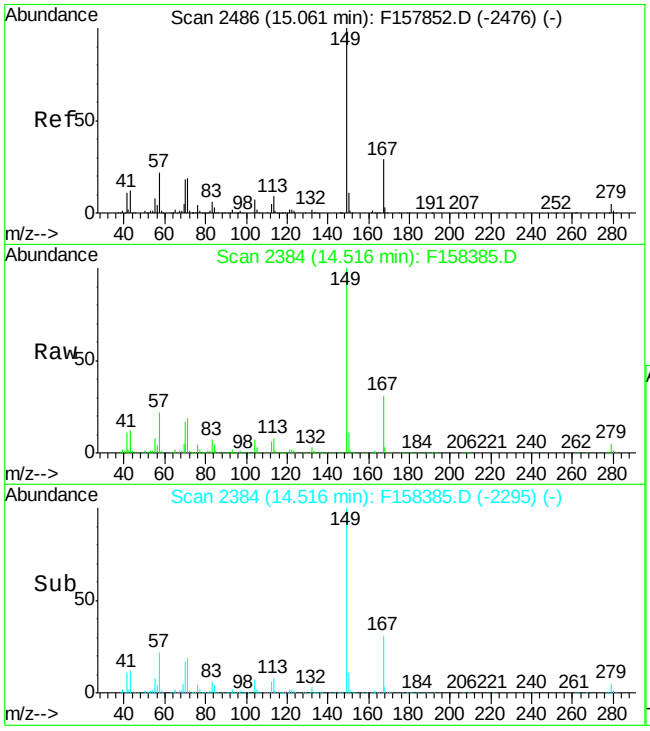


#2
1,4-Dioxane
Concen: 3.20 ppm
RT: 2.24 min Scan# 87
Delta R.T. 0.00 min
Lab File: F158385.D
Acq: 27 Jun 2016 4:31 pm

Tgt Ion: 88 Resp: 14669

Ion	Ratio	Lower	Upper
88	100		
58	58.5	24.1	84.1
57	16.4	0.0	48.8

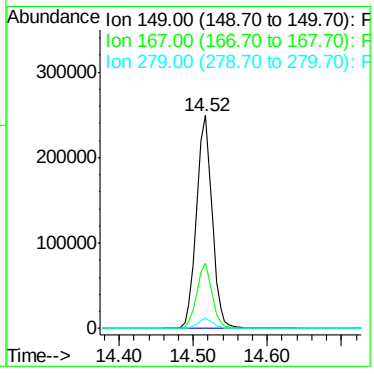




#91
bis(2-Ethylhexyl)phthalate
Concen: 18.95 ppm
RT: 14.52 min Scan# 2384
Delta R.T. -0.03 min
Lab File: F158385.D
Acq: 27 Jun 2016 4:31 pm

Tgt Ion:149 Resp: 367817

Ion	Ratio	Lower	Upper
149	100		
167	30.7	0.0	58.9
279	4.8	0.0	34.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158386.D Vial: 20
Acq On : 27 Jun 2016 5:01 pm Operator: brittanp
Sample : jc22206-6 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 17:23:15 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

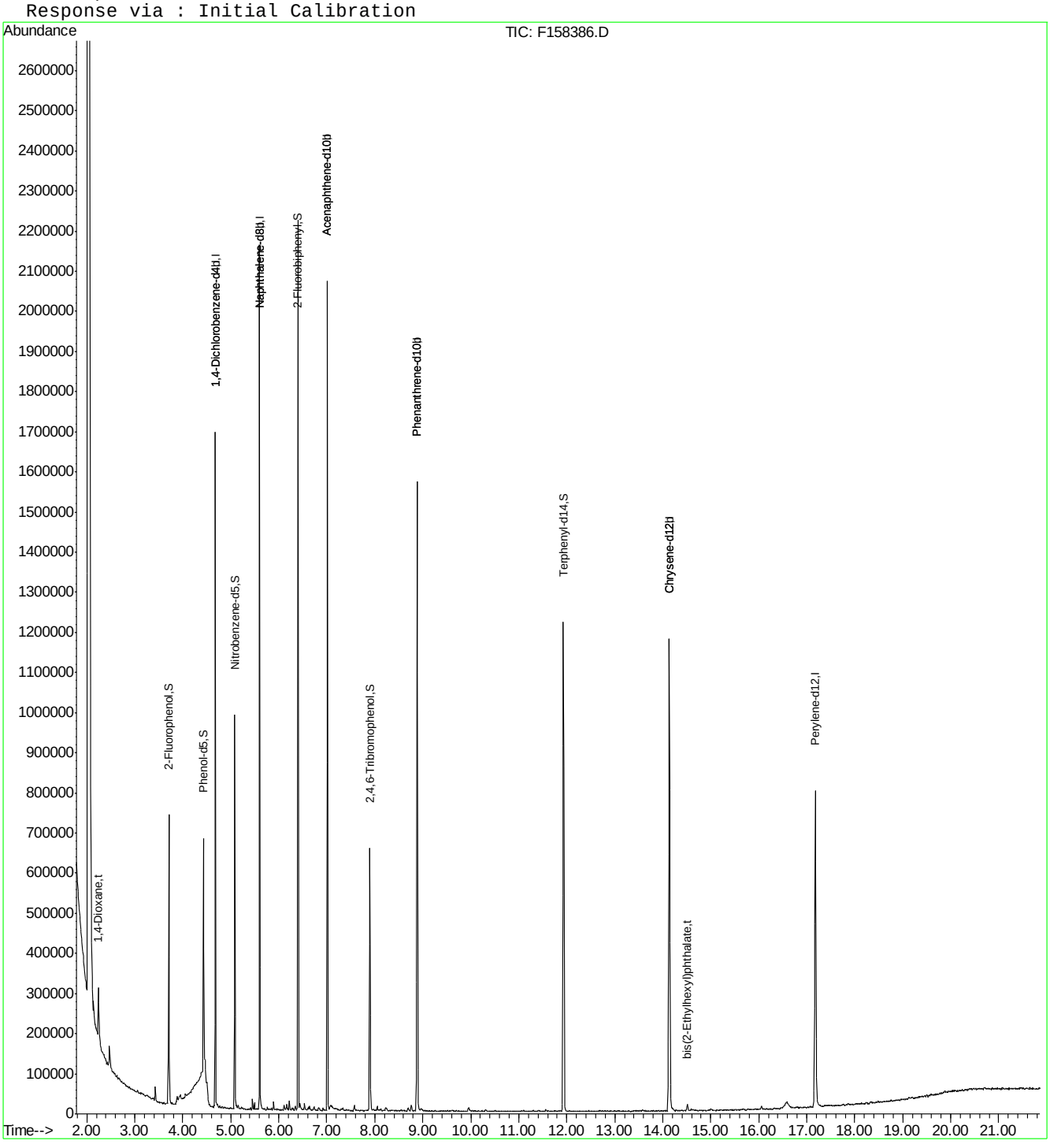
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	199212	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	790664	40.00	ppm	-0.02
47) Acenaphthene-d10	7.01	164	459013	40.00	ppm	-0.02
69) Phenanthrene-d10	8.89	188	707612	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	617792	40.00	ppm	-0.04
92) Perylene-d12	17.18	264	433473	40.00	ppm	-0.04
102) 1,4-Dichlorobenzene-d4b	4.68	152	199212	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	790664	40.00	ppm	-0.02
106) Acenaphthene-d10b	7.01	164	459013	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.89	188	707612	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	617792	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.71	112	204323	27.54	ppm	-0.02
Spiked Amount 50.000			Recovery = 55.08%			
8) Phenol-d5	4.43	99	170521	17.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 35.52%			
25) Nitrobenzene-d5	5.09	82	309252	39.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 78.20%			
51) 2-Fluorobiphenyl	6.40	172	540870	37.45	ppm	-0.01
Spiked Amount 50.000			Recovery = 74.90%			
73) 2,4,6-Tribromophenol	7.90	330	66299	51.86	ppm	-0.02
Spiked Amount 50.000			Recovery = 103.72%			
85) Terphenyl-d14	11.93	244	550926	44.76	ppm	-0.03
Spiked Amount 50.000			Recovery = 89.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.24	88	92302	25.24	ppm	96
91) bis(2-Ethylhexyl)phthalate	14.51	149	7761	1.96	ppm	97

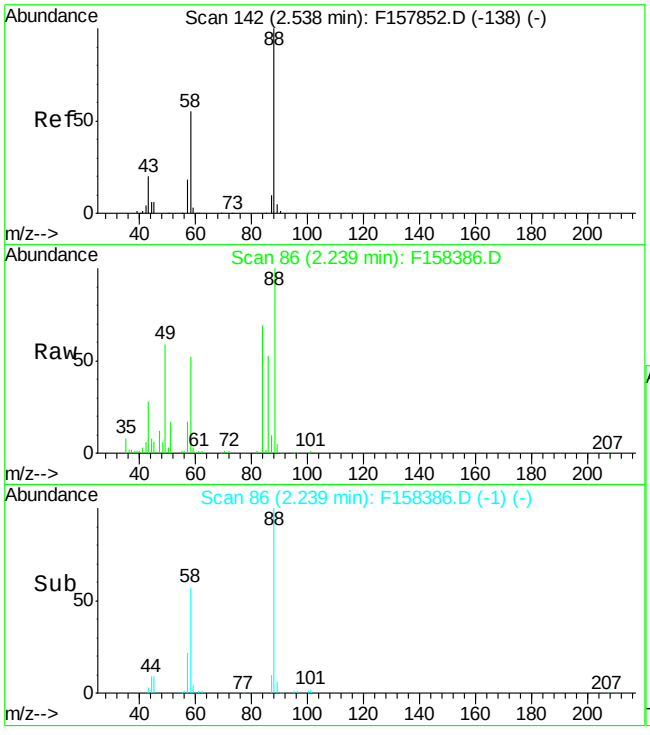
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158386.D MF6644.M Tue Jun 28 08:33:09 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158386.D Vial: 20
Acq On : 27 Jun 2016 5:01 pm Operator: brittanp
Sample : jc22206-6 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 8:33 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 23:39:35 2016
Response via : Initial Calibration

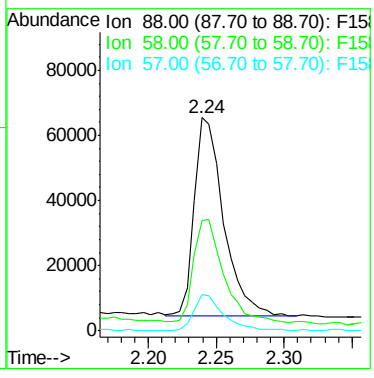


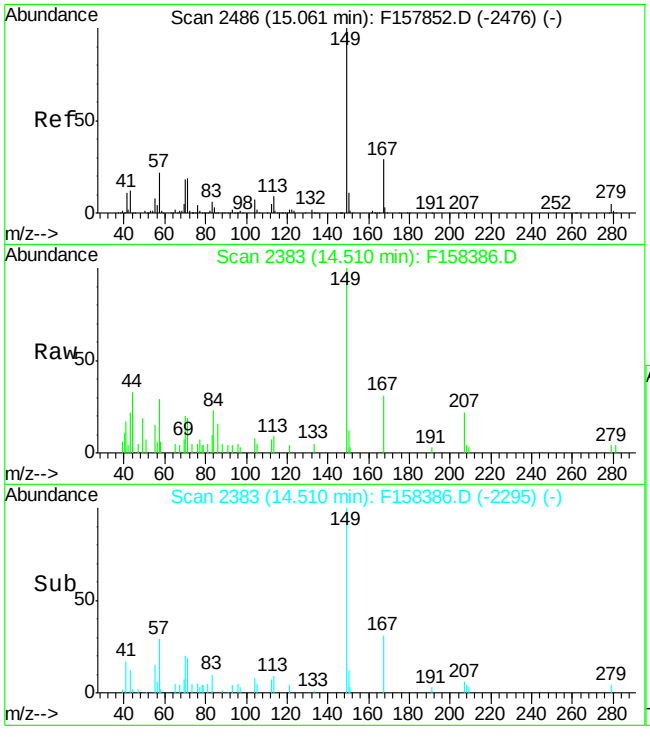


#2
1,4-Dioxane
Concen: 25.24 ppm
RT: 2.24 min Scan# 86
Delta R.T. -0.00 min
Lab File: F158386.D
Acq: 27 Jun 2016 5:01 pm

Tgt Ion: 88 Resp: 92302

Ion	Ratio	Lower	Upper
88	100		
58	51.1	24.1	84.1
57	18.0	0.0	48.8

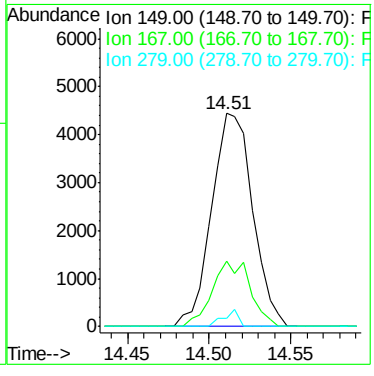




#91
bis(2-Ethylhexyl)phthalate
Concen: 1.96 ppm
RT: 14.51 min Scan# 2383
Delta R.T. -0.03 min
Lab File: F158386.D
Acq: 27 Jun 2016 5:01 pm

Tgt Ion:149 Resp: 7761

Ion	Ratio	Lower	Upper
149	100		
167	30.6	0.0	58.9
279	3.8	0.0	34.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158387.D Vial: 21
Acq On : 27 Jun 2016 5:30 pm Operator: brittanp
Sample : jc22206-7 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 17:52:34 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

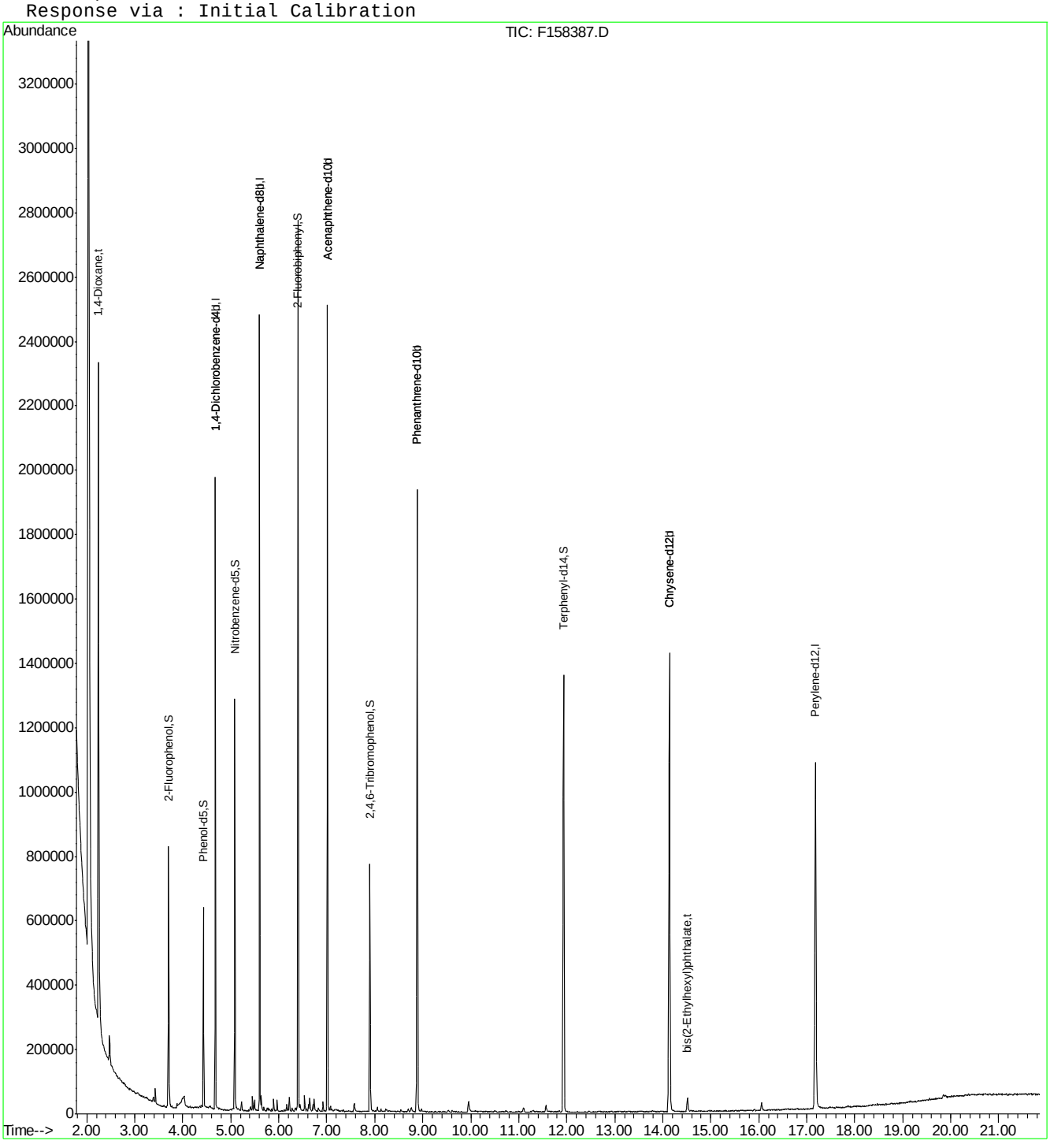
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	240564	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	957260	40.00	ppm	-0.01
47) Acenaphthene-d10	7.02	164	555222	40.00	ppm	-0.01
69) Phenanthrene-d10	8.88	188	862379	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	751820	40.00	ppm	-0.04
92) Perylene-d12	17.18	264	581516	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	240564	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	957260	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.02	164	555222	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.88	188	862379	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	751820	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.70	112	230961	25.78	ppm	-0.02
Spiked Amount 50.000			Recovery = 51.56%			
8) Phenol-d5	4.43	99	198972	17.16	ppm	-0.02
Spiked Amount 50.000			Recovery = 34.32%			
25) Nitrobenzene-d5	5.09	82	373918	39.05	ppm	-0.01
Spiked Amount 50.000			Recovery = 78.10%			
51) 2-Fluorobiphenyl	6.40	172	654181	37.45	ppm	-0.01
Spiked Amount 50.000			Recovery = 74.90%			
73) 2,4,6-Tribromophenol	7.90	330	75567	48.50	ppm	-0.02
Spiked Amount 50.000			Recovery = 97.00%			
85) Terphenyl-d14	11.94	244	612576	40.90	ppm	-0.03
Spiked Amount 50.000			Recovery = 81.80%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.24	88	1238923	280.55	ppm	97
91) bis(2-Ethylhexyl)phthalate	14.52	149	20013	2.51	ppm	94

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

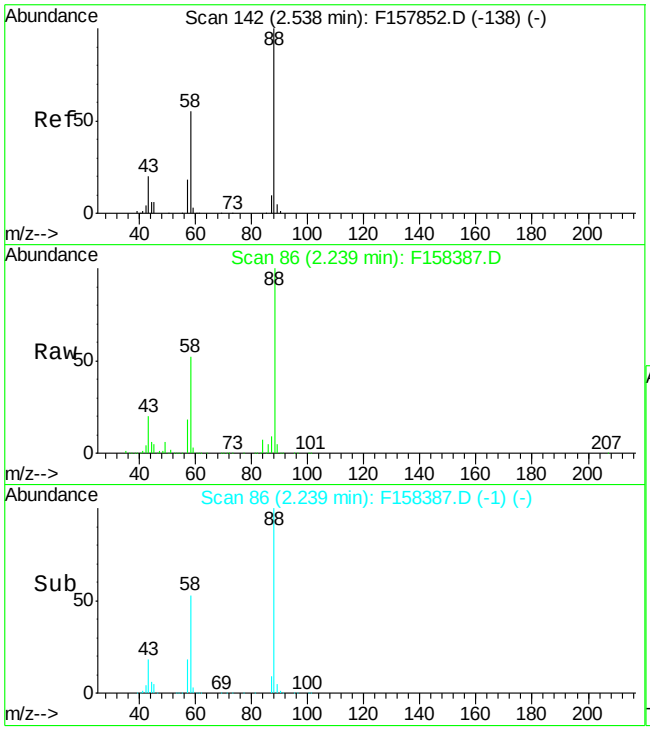
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158387.D Vial: 21
Acq On : 27 Jun 2016 5:30 pm Operator: brittanp
Sample : jc22206-7 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 8:35 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 23:39:35 2016
Response via : Initial Calibration



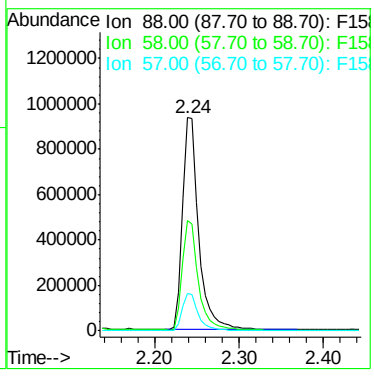
F158387.D MF6644.M Tue Jun 28 08:36:46 2016 RT1 Page 2

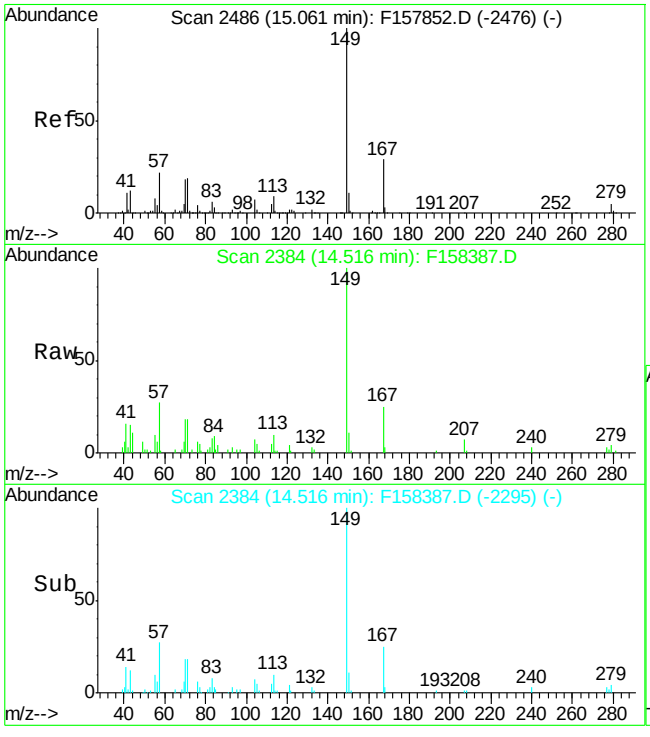


#2
1,4-Dioxane
Concen: 280.55 ppm
RT: 2.24 min Scan# 86
Delta R.T. -0.01 min
Lab File: F158387.D
Acq: 27 Jun 2016 5:30 pm

Tgt Ion: 88 Resp: 1238923

Ion	Ratio	Lower	Upper
88	100		
58	51.7	24.1	84.1
57	17.7	0.0	48.8

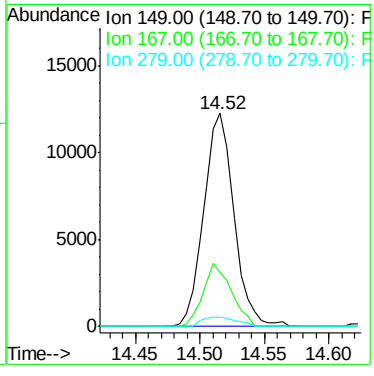




#91
bis(2-Ethylhexyl)phthalate
Concen: 2.51 ppm
RT: 14.52 min Scan# 2384
Delta R.T. -0.03 min
Lab File: F158387.D
Acq: 27 Jun 2016 5:30 pm

Tgt Ion:149 Resp: 20013

Ion	Ratio	Lower	Upper
149	100		
167	25.4	0.0	58.9
279	4.3	0.0	34.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158442.D Vial: 21
Acq On : 28 Jun 2016 10:33 pm Operator: ariellec
Sample : jc22206-7 Inst : MSF
Misc : op94859,ef6668,1000,,,1,10 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 22:55:22 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:53:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

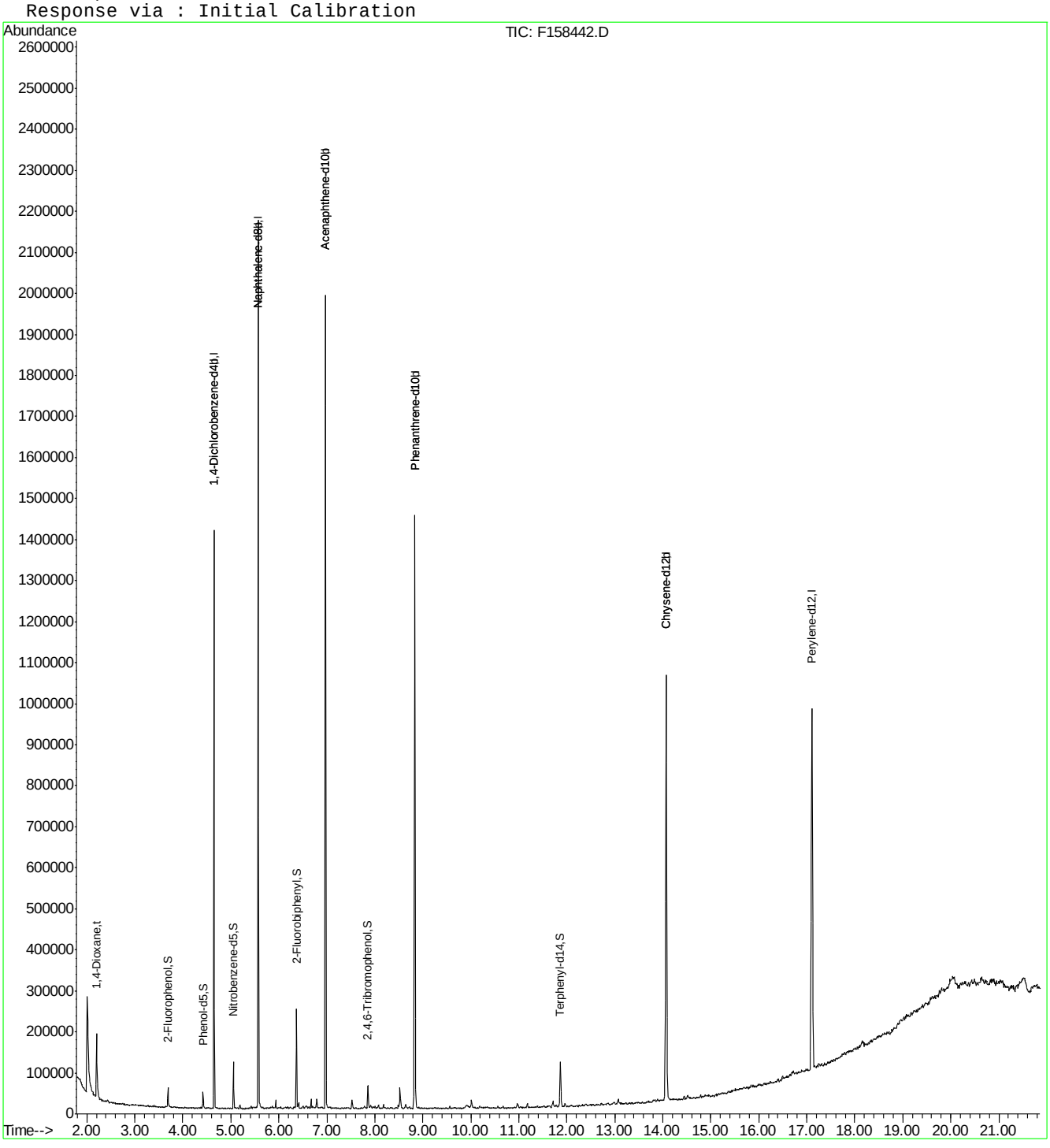
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	174131	40.00	ppm	-0.04
24) Naphthalene-d8	5.57	136	708894	40.00	ppm	-0.04
47) Acenaphthene-d10	6.97	164	422911	40.00	ppm	-0.05
69) Phenanthrene-d10	8.83	188	662090	40.00	ppm	-0.07
83) Chrysene-d12	14.07	240	536596	40.00	ppm	-0.11
92) Perylene-d12	17.11	264	499905	40.00	ppm	-0.11
102) 1,4-Dichlorobenzene-d4b	4.65	152	174131	40.00	ppm	-0.04
104) Naphthalene-d8b	5.57	136	708894	40.00	ppm	-0.04
106) Acenaphthene-d10b	6.97	164	422911	40.00	ppm	-0.05
108) Phenanthrene-d10b	8.83	188	662090	40.00	ppm	-0.07
110) Chrysene-d12b	14.07	240	536596	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.69	112	16601	2.56	ppm	-0.03
Spiked Amount 50.000			Recovery	=	5.12%	
8) Phenol-d5	4.42	99	14750	1.76	ppm	-0.03
Spiked Amount 50.000			Recovery	=	3.52%	
25) Nitrobenzene-d5	5.05	82	28935	4.08	ppm	-0.04
Spiked Amount 50.000			Recovery	=	8.16%	
51) 2-Fluorobiphenyl	6.37	172	53966	4.06	ppm	-0.04
Spiked Amount 50.000			Recovery	=	8.12%	
73) 2,4,6-Tribromophenol	7.86	330	5513	4.61	ppm	-0.06
Spiked Amount 50.000			Recovery	=	9.22%	
85) Terphenyl-d14	11.87	244	47898	4.48	ppm	-0.10
Spiked Amount 50.000			Recovery	=	8.96%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.20	88	98270	30.74	ppm	99

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

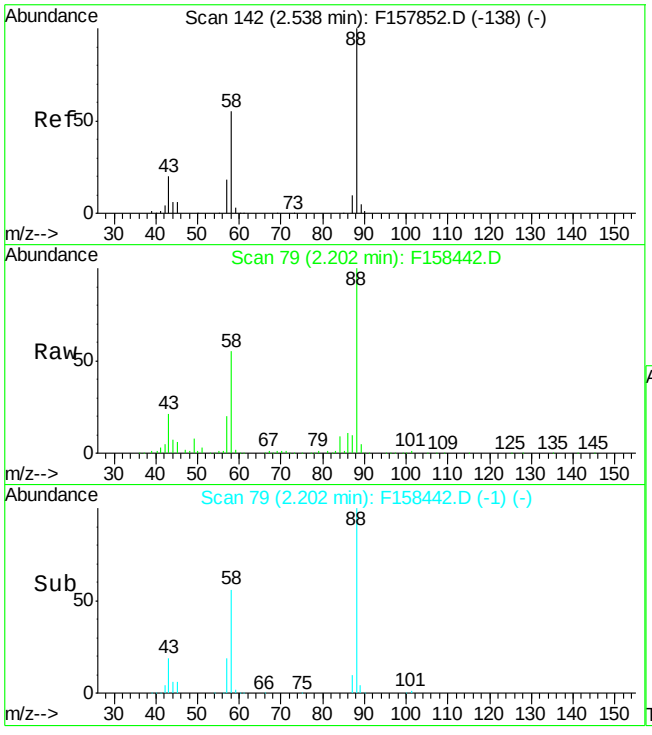
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158442.D Vial: 21
Acq On : 28 Jun 2016 10:33 pm Operator: ariellec
Sample : jc22206-7 Inst : MSF
Misc : op94859,ef6668,1000,,,1,10 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 9:40 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 09:03:37 2016
Response via : Initial Calibration



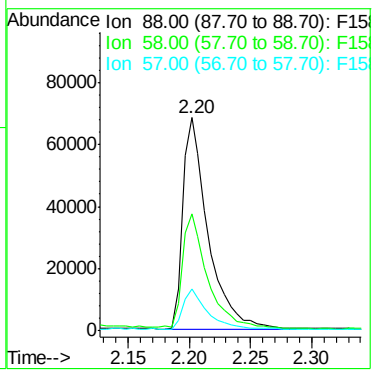
SGS ACCUTEST JC22206



#2
1,4-Dioxane
Concen: 30.74 ppm
RT: 2.20 min Scan# 79
Delta R.T. -0.04 min
Lab File: F158442.D
Acq: 28 Jun 2016 10:33 pm

Tgt Ion: 88 Resp: 98270

Ion	Ratio	Lower	Upper
88	100		
58	53.6	24.1	84.1
57	19.2	0.0	48.8



7.1.8

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158388.D Vial: 22
Acq On : 27 Jun 2016 6:00 pm Operator: brittanp
Sample : jc22206-8 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 18:21:54 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.69	152	187430	40.00	ppm	0.00
24) Naphthalene-d8	5.60	136	757445	40.00	ppm	-0.01
47) Acenaphthene-d10	7.02	164	445347	40.00	ppm	-0.01
69) Phenanthrene-d10	8.88	188	698092	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	622138	40.00	ppm	-0.04
92) Perylene-d12	17.19	264	573608	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.69	152	187430	40.00	ppm	0.00
104) Naphthalene-d8b	5.60	136	757445	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.02	164	445347	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.88	188	698092	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	622138	40.00	ppm	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	3.82	112	14222	2.04	ppm	0.09
Spiked Amount 50.000			Recovery = 4.08%			
8) Phenol-d5	4.43	99	148199	16.40	ppm	-0.01
Spiked Amount 50.000			Recovery = 32.80%			
25) Nitrobenzene-d5	5.09	82	346393	45.72	ppm	-0.01
Spiked Amount 50.000			Recovery = 91.44%			
51) 2-Fluorobiphenyl	6.40	172	614458	43.85	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.70%			
73) 2,4,6-Tribromophenol	7.90	330	67953	53.88	ppm	-0.02
Spiked Amount 50.000			Recovery = 107.76%			
85) Terphenyl-d14	11.94	244	507973	40.98	ppm	-0.03
Spiked Amount 50.000			Recovery = 81.96%			

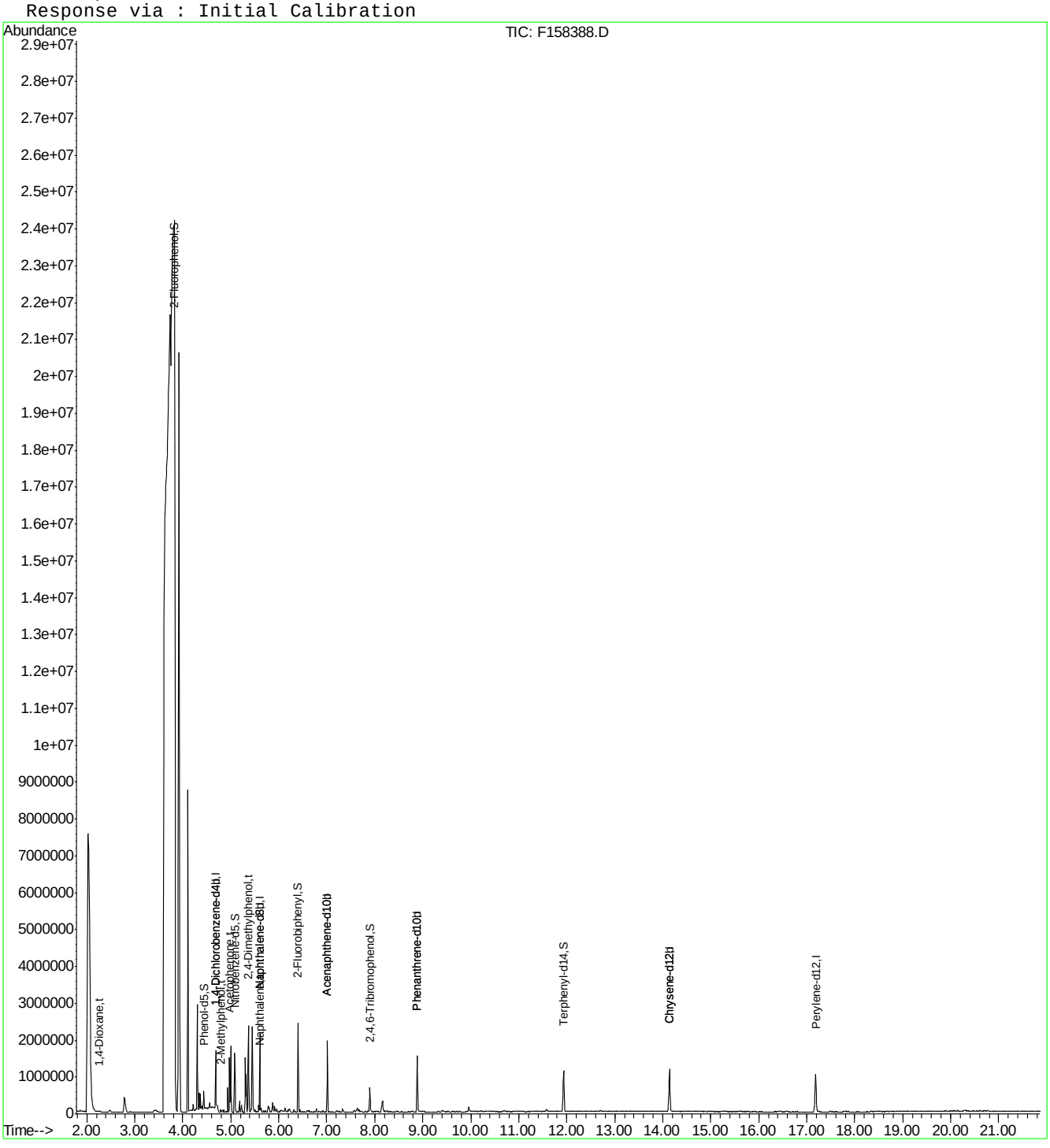
Target Compounds						Qvalue
2) 1,4-Dioxane	2.25	88	14588	4.24	ppm	91
18) Acetophenone	4.97	105	348323	33.13	ppm	98
19) 2-Methylphenol	4.79	108	7918	1.12	ppm	73
30) 2,4-Dimethylphenol	5.36	107	479708	67.78	ppm	99
38) Naphthalene	5.62	128	10824	0.49	ppm	92

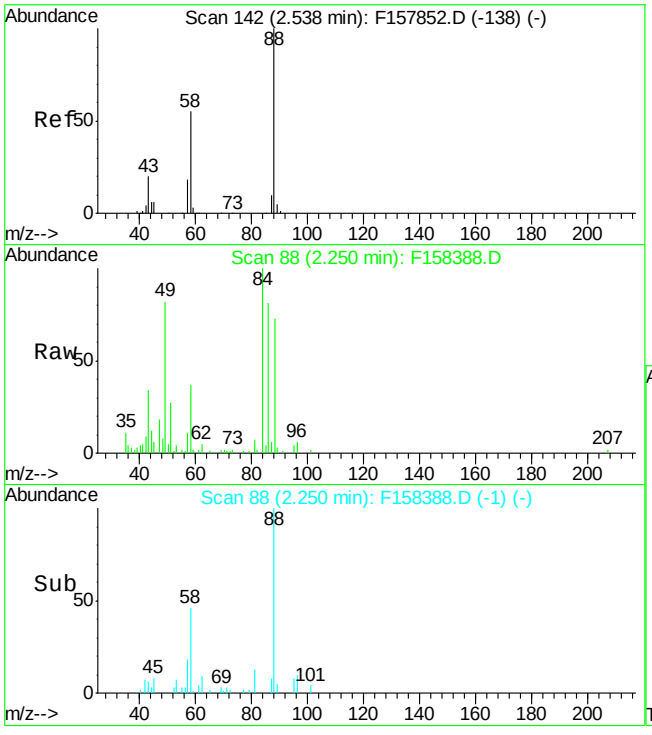
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158388.D MF6644.M Tue Jun 28 08:43:09 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158388.D Vial: 22
Acq On : 27 Jun 2016 6:00 pm Operator: brittanp
Sample : jc22206-8 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 8:42 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 23:39:35 2016
Response via : Initial Calibration

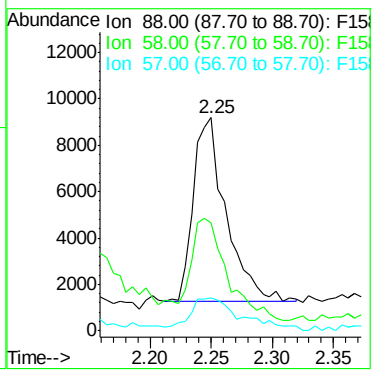


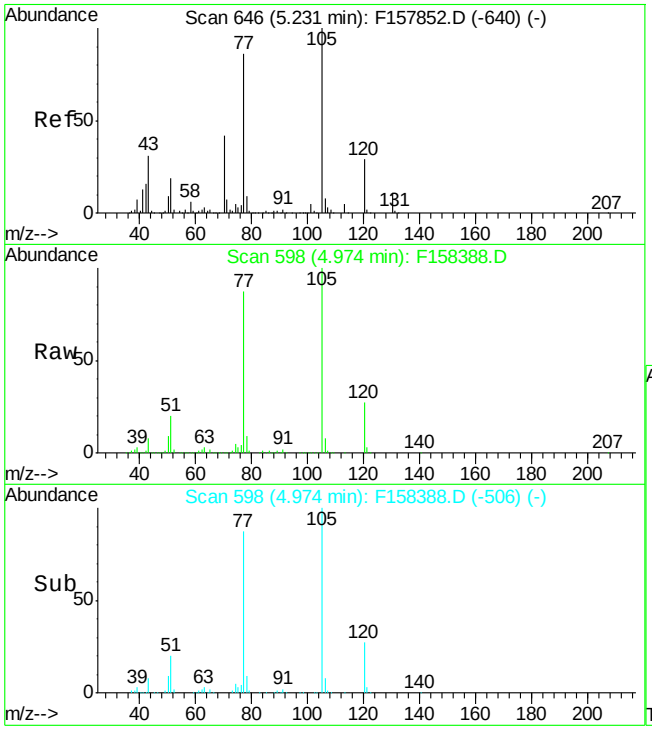


#2
1,4-Dioxane
Concen: 4.24 ppm
RT: 2.25 min Scan# 88
Delta R.T. 0.01 min
Lab File: F158388.D
Acq: 27 Jun 2016 6:00 pm

Tgt Ion: 88 Resp: 14588

Ion	Ratio	Lower	Upper
88	100		
58	47.4	24.1	84.1
57	15.6	0.0	48.8

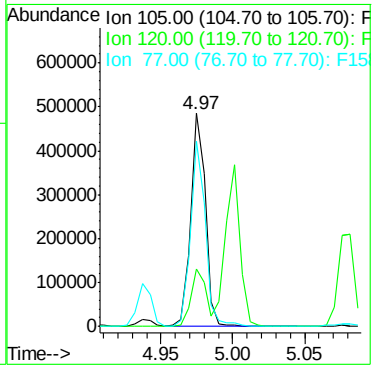


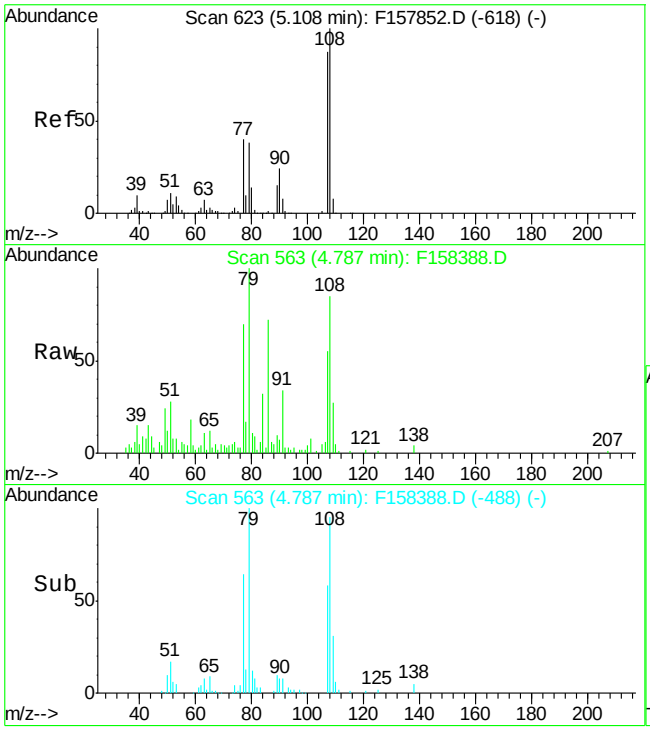


#18
Acetophenone
Concen: 33.13 ppm
RT: 4.97 min Scan# 598
Delta R.T. -0.01 min
Lab File: F158388.D
Acq: 27 Jun 2016 6:00 pm

Tgt Ion:105 Resp: 348323

Ion	Ratio	Lower	Upper
105	100		
120	27.0	0.0	57.6
77	86.9	58.7	118.7

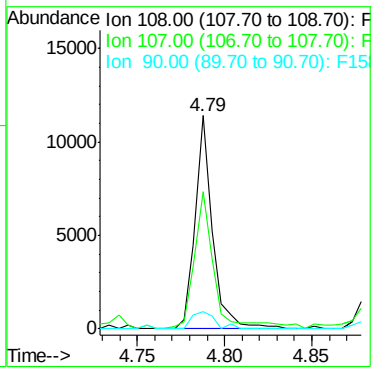


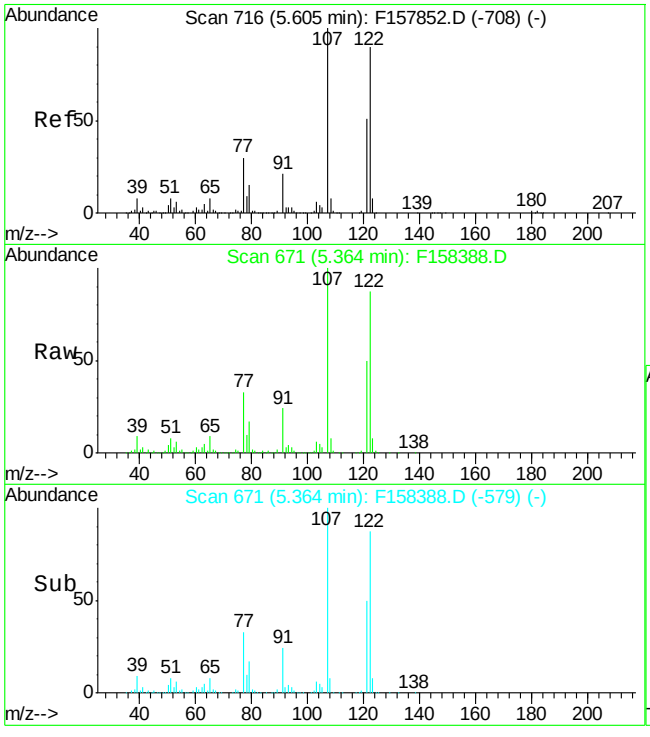


#19
2-Methylphenol
Concen: 1.12 ppm
RT: 4.79 min Scan# 563
Delta R.T. -0.10 min
Lab File: F158388.D
Acq: 27 Jun 2016 6:00 pm

Tgt Ion:108 Resp: 7918

Ion	Ratio	Lower	Upper
108	100		
107	63.0	56.6	116.6
90	8.1	0.0	54.9

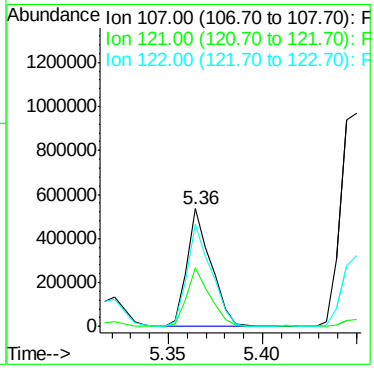




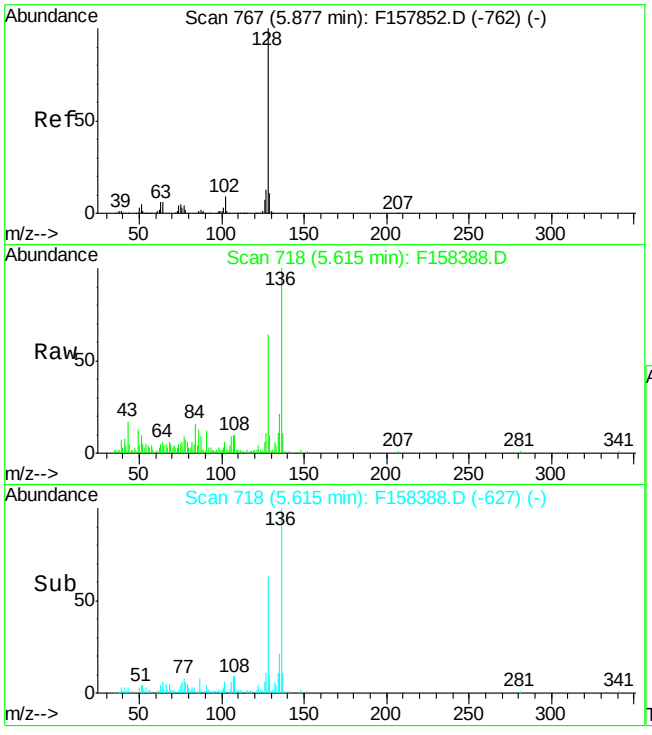
#30
2,4-Dimethylphenol
Concen: 67.78 ppm
RT: 5.36 min Scan# 671
Delta R.T. -0.01 min
Lab File: F158388.D
Acq: 27 Jun 2016 6:00 pm

Tgt Ion:107 Resp: 479708

Ion	Ratio	Lower	Upper
107	100		
121	50.1	19.6	79.6
122	86.8	55.3	115.3



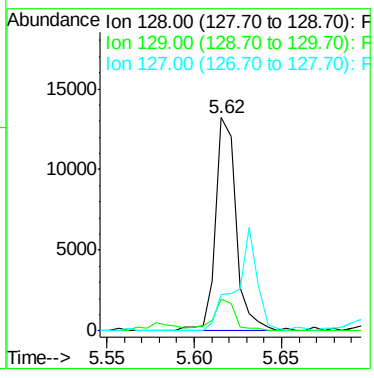
7.1.9



#38
Naphthalene
Concen: 0.49 ppm
RT: 5.62 min Scan# 718
Delta R.T. -0.02 min
Lab File: F158388.D
Acq: 27 Jun 2016 6:00 pm

Tgt Ion:128 Resp: 10824

Ion	Ratio	Lower	Upper
128	100		
129	13.7	0.0	41.0
127	16.4	0.0	42.9



7.1.9

7

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111971.D
Acq On : 29 Jun 2016 3:24 pm
Operator : ariellec
Sample : jc22206-8
Misc : op95160,ez5596,930
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 29 15:48:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 14:07:58 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.616	152	167803	40.00	ppm	0.00
24) Naphthalene-d8	5.535	136	619513	40.00	ppm	0.00
47) Acenaphthene-d10	6.919	164	350011	40.00	ppm	0.00
69) Phenanthrene-d10	8.751	188	557537	40.00	ppm	0.00
83) Chrysene-d12	13.970	240	591916	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	514520	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.616	152	167803	40.00	ppm	0.00
103) Phenanthrene-d10a	8.751	188	557537	40.00	ppm	0.00
105) Chrysene-d12a	13.970	240	591916	40.00	ppm	-0.01
107) Acenaphthene-d10a	6.919	164	350011	40.00	ppm	0.00
109) Naphthalene-d8a	5.535	136	619513	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.745	112	17989	3.10	ppm	0.12
Spiked Amount 50.000			Recovery = 6.20%			
8) Phenol-d5	4.376	99	149445	20.37	ppm	0.03
Spiked Amount 50.000			Recovery = 40.74%			
25) Nitrobenzene-d5	5.017	82	248508	42.42	ppm	0.00
Spiked Amount 50.000			Recovery = 84.84%			
51) 2-Fluorobiphenyl	6.320	172	427940	37.83	ppm	0.00
Spiked Amount 50.000			Recovery = 75.66%			
73) 2,4,6-Tribromophenol	7.790	330	50722	40.96	ppm	0.00
Spiked Amount 50.000			Recovery = 81.92%			
85) Terphenyl-d14	11.764	244	404050	31.53	ppm	-0.02
Spiked Amount 50.000			Recovery = 63.06%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.137	88	12870	5.26	ppm	98
18) Acetophenone	4.905	105	301117	37.61	ppm	75
21) 3&4-Methylphenol	4.931	108	15548	2.86	ppm	92
30) 2,4-Dimethylphenol	5.300	107	419753	76.60	ppm	99

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

7.1.10

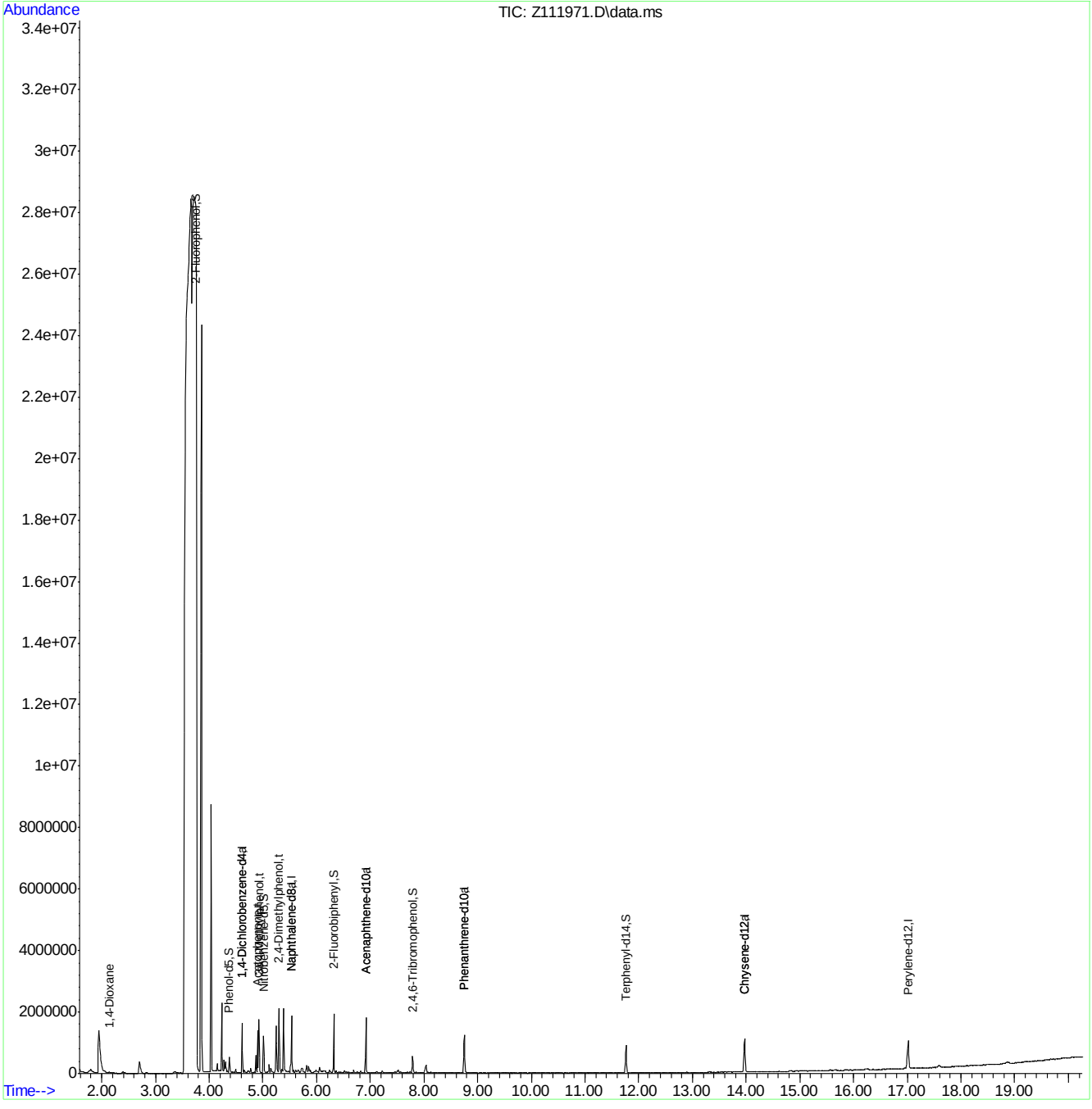
7

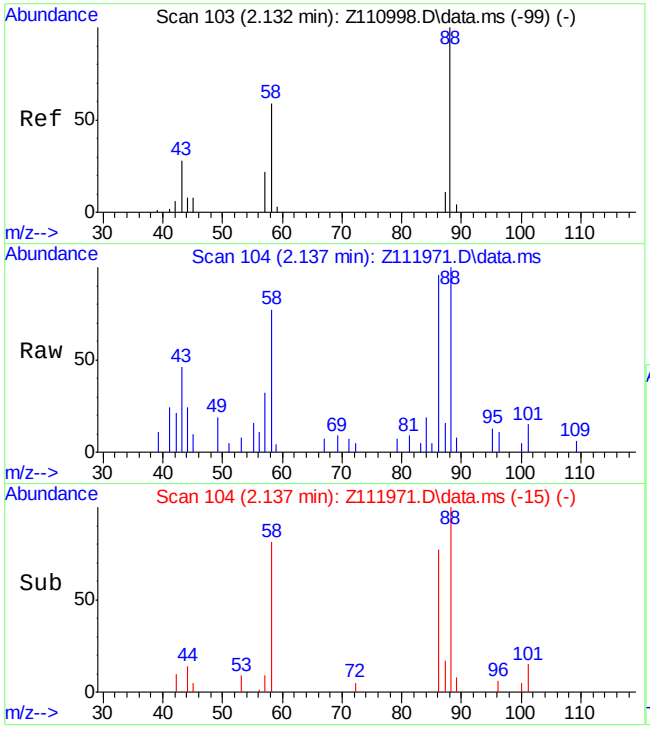
SGS ACCUTEST JC22206

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111971.D
Acq On : 29 Jun 2016 3:24 pm
Operator : ariellec
Sample : jc22206-8
Misc : op95160,ez5596,930
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 29 15:48:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 14:07:58 2016
Response via : Initial Calibration

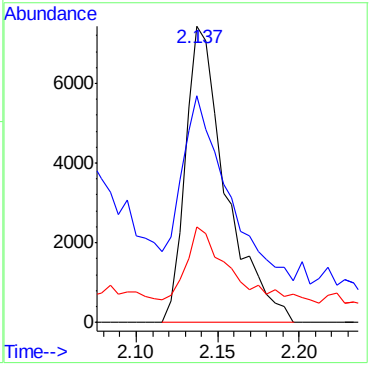


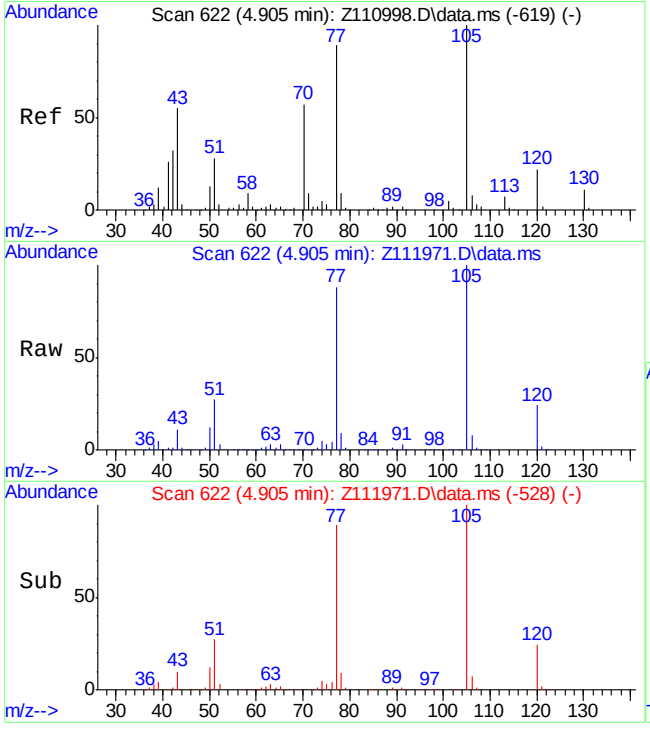


#2
1,4-Dioxane
Concen: 5.26 ppm
RT: 2.137 min Scan# 104
Delta R.T. -0.025 min
Lab File: Z111971.D
Acq: 29 Jun 2016 3:24 pm

Tgt Ion: 88 Resp: 12870

Ion	Ratio	Lower	Upper
88	100		
58	57.4	38.4	78.4
57	23.7	1.5	41.5

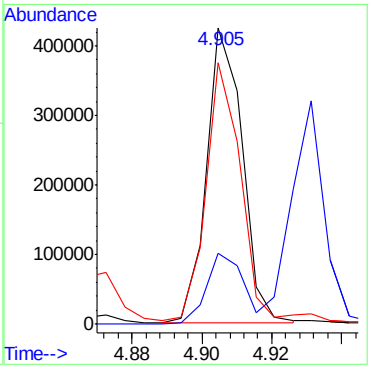


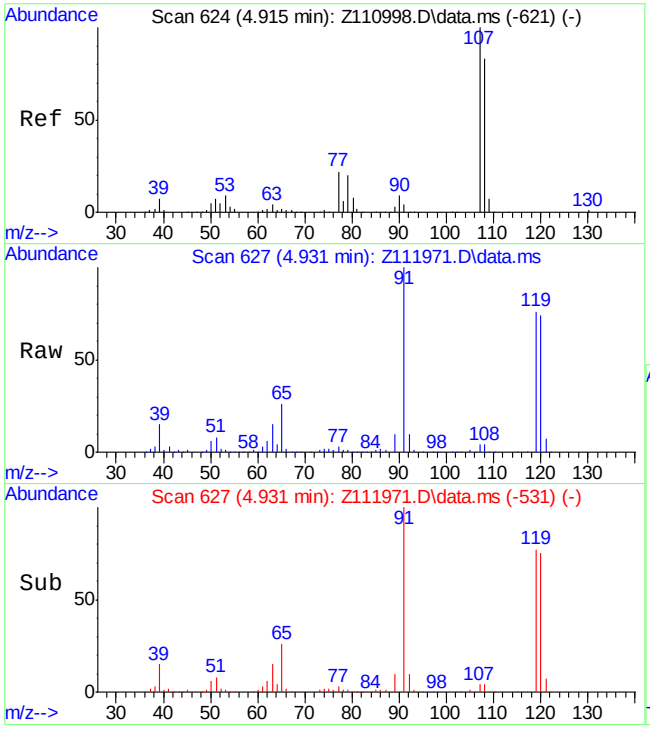


#18
Acetophenone
Concen: 37.61 ppm
RT: 4.905 min Scan# 622
Delta R.T. 0.002 min
Lab File: Z111971.D
Acq: 29 Jun 2016 3:24 pm

Tgt Ion:105 Resp: 301117

Ion	Ratio	Lower	Upper
105	100		
120	1.2	0.0	54.2
77	87.0	78.2	138.2

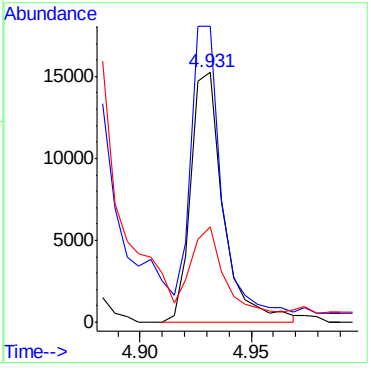


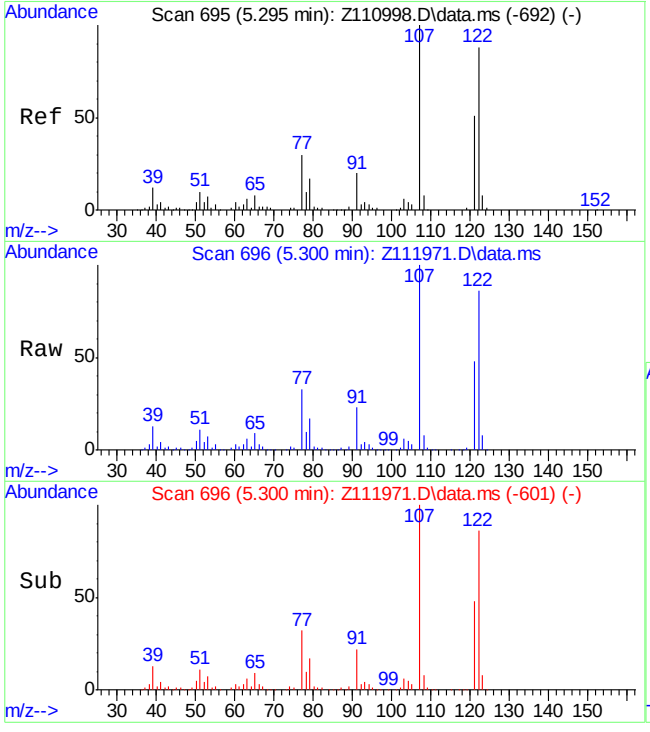


#21
3&4-Methylphenol
Concen: 2.86 ppm
RT: 4.931 min Scan# 627
Delta R.T. 0.013 min
Lab File: Z111971.D
Acq: 29 Jun 2016 3:24 pm

Tgt Ion:108 Resp: 15548

Ion	Ratio	Lower	Upper
108	100		
107	109.2	90.0	150.0
79	25.9	0.0	55.4

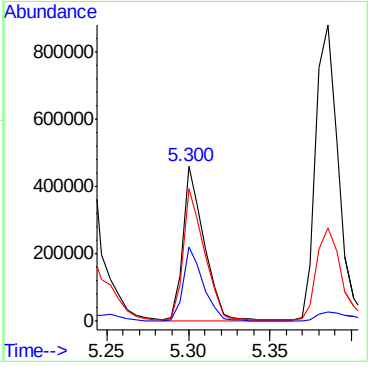




#30
2,4-Dimethylphenol
Concen: 76.60 ppm
RT: 5.300 min Scan# 696
Delta R.T. 0.010 min
Lab File: Z111971.D
Acq: 29 Jun 2016 3:24 pm

Tgt Ion:107 Resp: 419753

Ion	Ratio	Lower	Upper
107	100		
121	47.8	18.2	78.2
122	85.5	54.2	114.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158389.D Vial: 23
Acq On : 27 Jun 2016 6:28 pm Operator: brittanp
Sample : jc22206-9 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 18:50:57 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	207607	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	816081	40.00	ppm	-0.01
47) Acenaphthene-d10	7.01	164	467459	40.00	ppm	-0.01
69) Phenanthrene-d10	8.88	188	716362	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	614433	40.00	ppm	-0.04
92) Perylene-d12	17.19	264	569503	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	207607	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	816081	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.01	164	467459	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.88	188	716362	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	614433	40.00	ppm	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	3.70	112	210417	27.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 54.44%			
8) Phenol-d5	4.43	99	172171	17.20	ppm	-0.02
Spiked Amount 50.000			Recovery = 34.40%			
25) Nitrobenzene-d5	5.09	82	351467	43.05	ppm	-0.01
Spiked Amount 50.000			Recovery = 86.10%			
51) 2-Fluorobiphenyl	6.40	172	618720	42.07	ppm	-0.01
Spiked Amount 50.000			Recovery = 84.14%			
73) 2,4,6-Tribromophenol	7.90	330	70980	54.84	ppm	-0.02
Spiked Amount 50.000			Recovery = 109.68%			
85) Terphenyl-d14	11.94	244	553134	45.19	ppm	-0.03
Spiked Amount 50.000			Recovery = 90.38%			

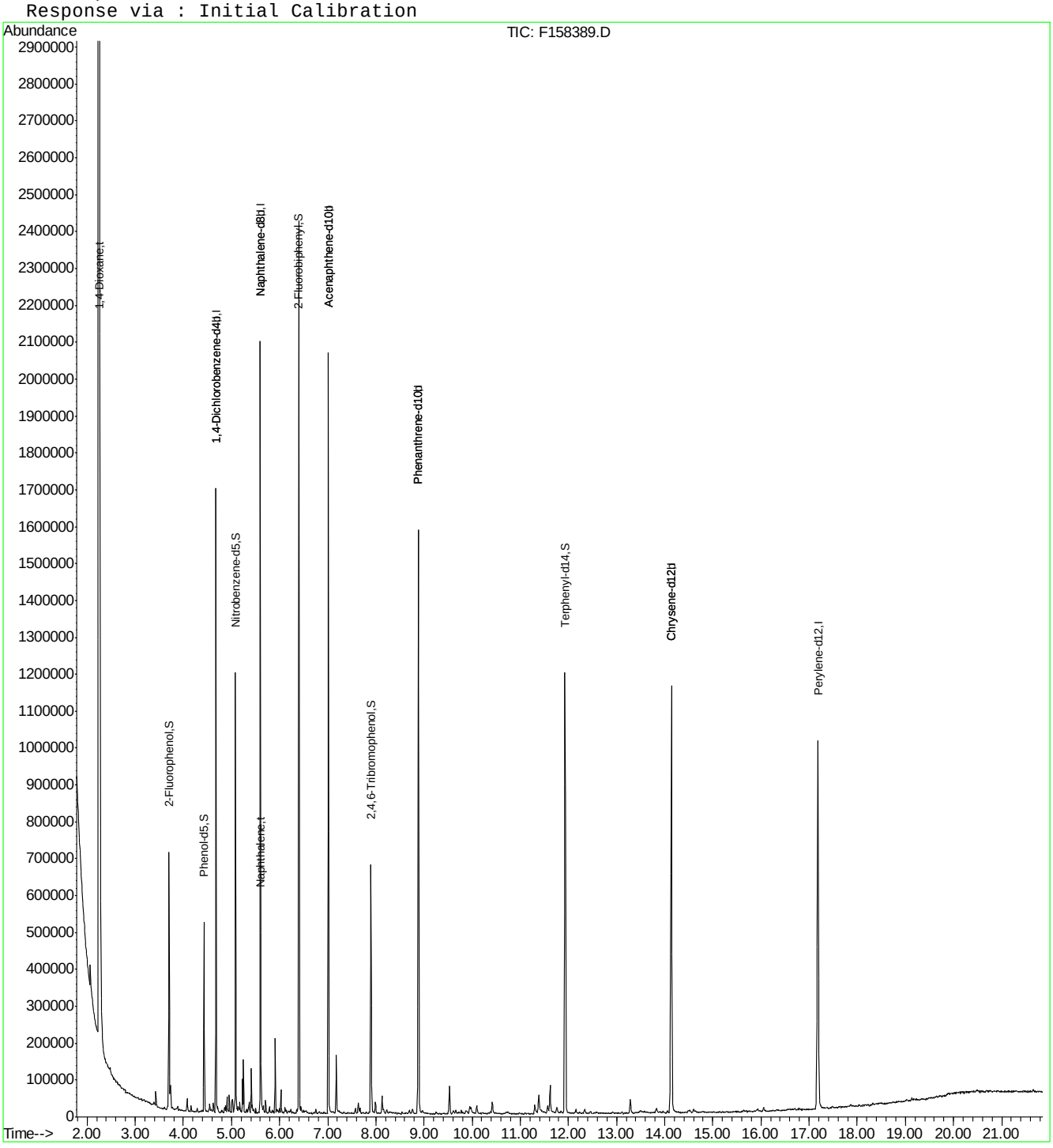
Target Compounds						Qvalue
2) 1,4-Dioxane	2.26	88	4748855	1246.07	ppm	94
38) Naphthalene	5.62	128	22586	0.95	ppm	98

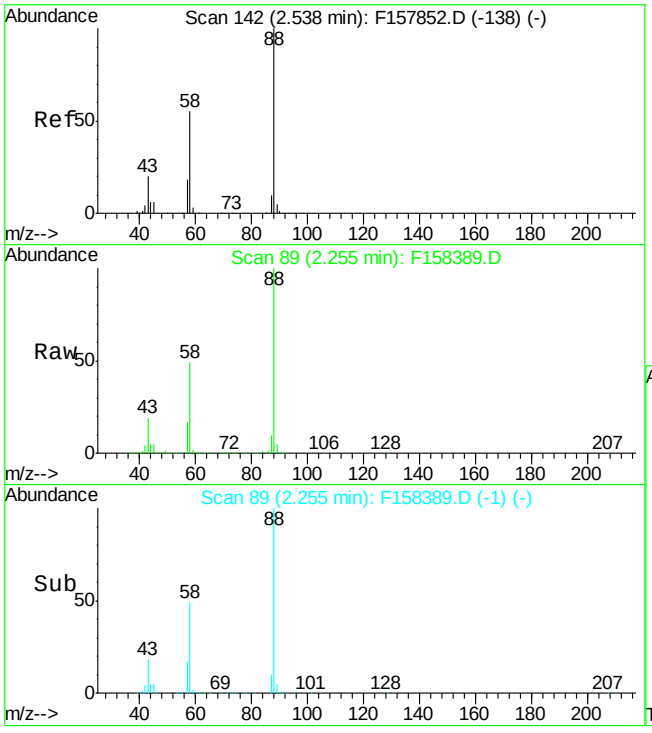
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158389.D MF6644.M Tue Jun 28 08:48:25 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158389.D Vial: 23
Acq On : 27 Jun 2016 6:28 pm Operator: brittanp
Sample : jc22206-9 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 8:47 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 23:39:35 2016
Response via : Initial Calibration

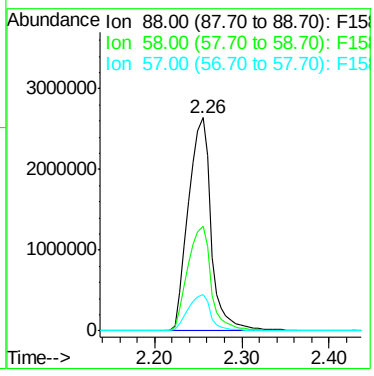


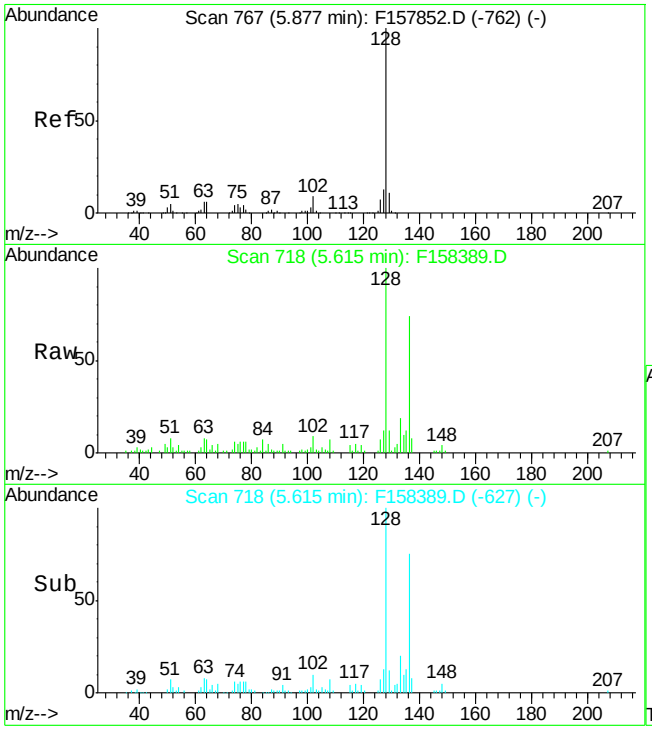


#2
1,4-Dioxane
Concen: 1246.07 ppm
RT: 2.26 min Scan# 89
Delta R.T. 0.01 min
Lab File: F158389.D
Acq: 27 Jun 2016 6:28 pm

Tgt Ion: 88 Resp: 4748855

Ion	Ratio	Lower	Upper
88	100		
58	49.3	24.1	84.1
57	17.0	0.0	48.8

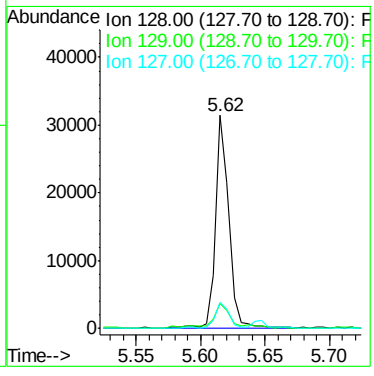




#38
Naphthalene
Concen: 0.95 ppm
RT: 5.62 min Scan# 718
Delta R.T. -0.02 min
Lab File: F158389.D
Acq: 27 Jun 2016 6:28 pm

Tgt Ion:128 Resp: 22586

Ion	Ratio	Lower	Upper
128	100		
129	11.7	0.0	41.0
127	12.3	0.0	42.9



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158443.D Vial: 22
Acq On : 28 Jun 2016 11:02 pm Operator: ariellec
Sample : jc22206-9 Inst : MSF
Misc : op94859,ef6668,1000,,,1,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 23:24:26 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:53:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	171042	40.00	ppm	-0.04
24) Naphthalene-d8	5.57	136	701488	40.00	ppm	-0.04
47) Acenaphthene-d10	6.97	164	419603	40.00	ppm	-0.05
69) Phenanthrene-d10	8.83	188	657607	40.00	ppm	-0.07
83) Chrysene-d12	14.07	240	546707	40.00	ppm	-0.11
92) Perylene-d12	17.11	264	515680	40.00	ppm	-0.11
102) 1,4-Dichlorobenzene-d4b	4.65	152	171042	40.00	ppm	-0.04
104) Naphthalene-d8b	5.57	136	701488	40.00	ppm	-0.04
106) Acenaphthene-d10b	6.97	164	419603	40.00	ppm	-0.05
108) Phenanthrene-d10b	8.83	188	657607	40.00	ppm	-0.07
110) Chrysene-d12b	14.07	240	546707	40.00	ppm	-0.11

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	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	2.20	88	96248	30.65	ppm	98

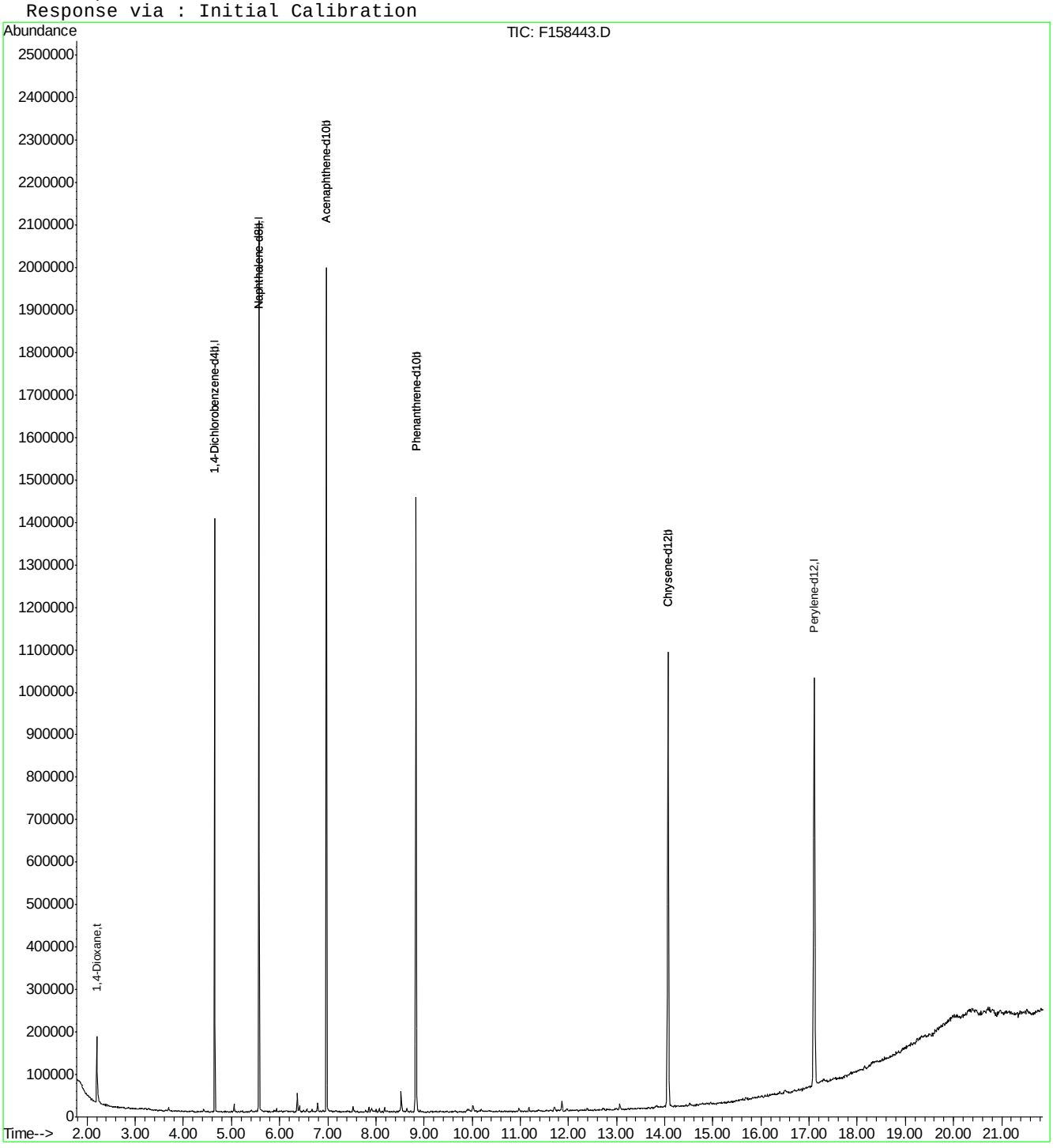
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158443.D MF6644.M Wed Jun 29 09:51:45 2016 RT1

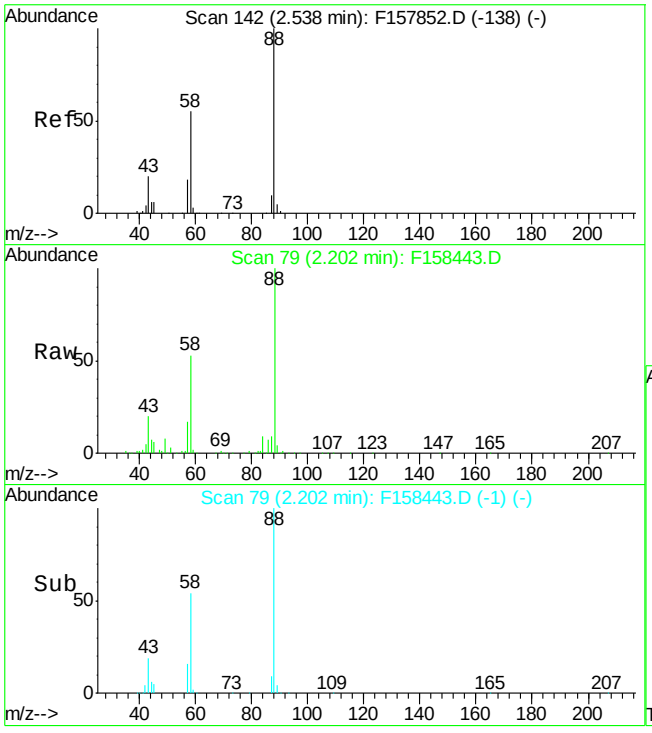
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158443.D Vial: 22
Acq On : 28 Jun 2016 11:02 pm Operator: ariellec
Sample : jc22206-9 Inst : MSF
Misc : op94859,ef6668,1000,,,1,50 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 9:51 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 09:03:37 2016
Response via : Initial Calibration

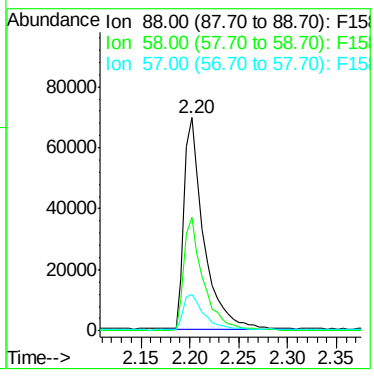




#2
1,4-Dioxane
Concen: 30.65 ppm
RT: 2.20 min Scan# 79
Delta R.T. -0.04 min
Lab File: F158443.D
Acq: 28 Jun 2016 11:02 pm

Tgt Ion: 88 Resp: 96248

Ion	Ratio	Lower	Upper
88	100		
58	53.4	24.1	84.1
57	16.8	0.0	48.8



7.1.12

7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158440.D Vial: 19
Acq On : 28 Jun 2016 9:34 pm Operator: ariellec
Sample : jc22206-10 Inst : MSF
Misc : op94859,ef6668,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 21:56:53 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:53:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

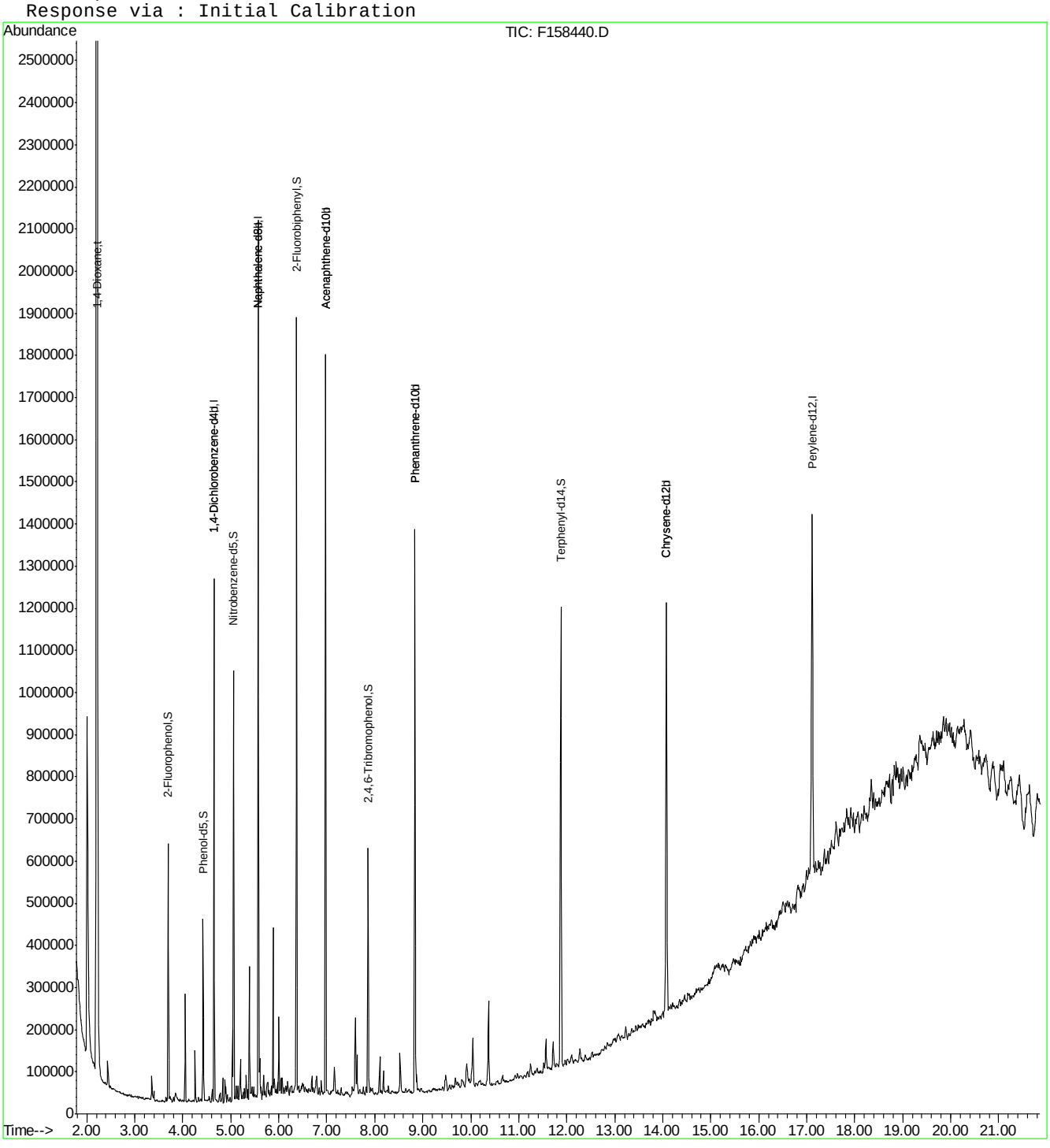
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	165750	40.00	ppm	-0.04
24) Naphthalene-d8	5.57	136	652846	40.00	ppm	-0.04
47) Acenaphthene-d10	6.98	164	381291	40.00	ppm	-0.05
69) Phenanthrene-d10	8.84	188	595545	40.00	ppm	-0.07
83) Chrysene-d12	14.07	240	501533	40.00	ppm	-0.11
92) Perylene-d12	17.11	264	458288	40.00	ppm	-0.10
102) 1,4-Dichlorobenzene-d4b	4.65	152	165750	40.00	ppm	-0.04
104) Naphthalene-d8b	5.57	136	652846	40.00	ppm	-0.04
106) Acenaphthene-d10b	6.98	164	381291	40.00	ppm	-0.05
108) Phenanthrene-d10b	8.84	188	595545	40.00	ppm	-0.07
110) Chrysene-d12b	14.07	240	501533	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.69	112	169318	27.43	ppm	-0.03
Spiked Amount 50.000			Recovery = 54.86%			
8) Phenol-d5	4.42	99	147739	18.49	ppm	-0.02
Spiked Amount 50.000			Recovery = 36.98%			
25) Nitrobenzene-d5	5.05	82	271076	41.51	ppm	-0.04
Spiked Amount 50.000			Recovery = 83.02%			
51) 2-Fluorobiphenyl	6.37	172	463195	38.61	ppm	-0.04
Spiked Amount 50.000			Recovery = 77.22%			
73) 2,4,6-Tribromophenol	7.86	330	58835	54.68	ppm	-0.06
Spiked Amount 50.000			Recovery = 109.36%			
85) Terphenyl-d14	11.88	244	479491	47.99	ppm	-0.09
Spiked Amount 50.000			Recovery = 95.98%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.22	88	4983729	1637.94	ppm	93

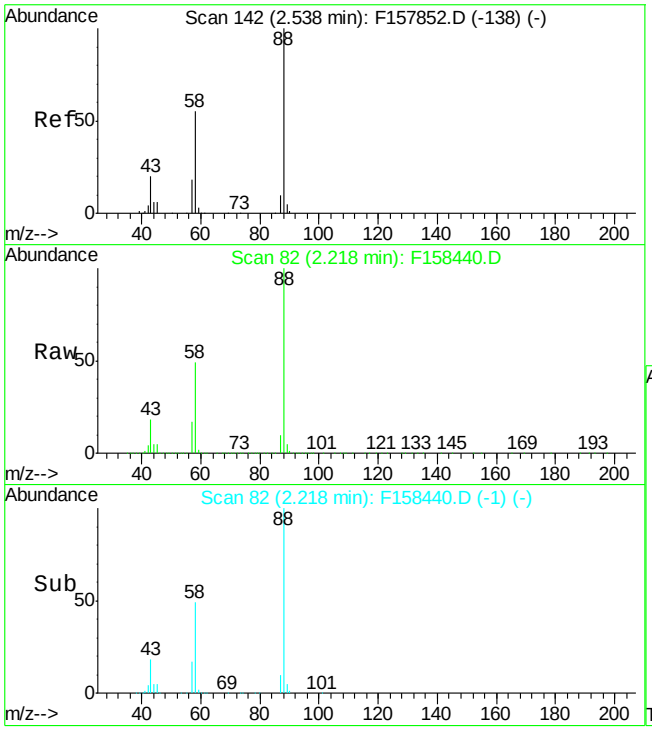
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158440.D Vial: 19
Acq On : 28 Jun 2016 9:34 pm Operator: ariellec
Sample : jc22206-10 Inst : MSF
Misc : op94859,ef6668,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 9:28 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration

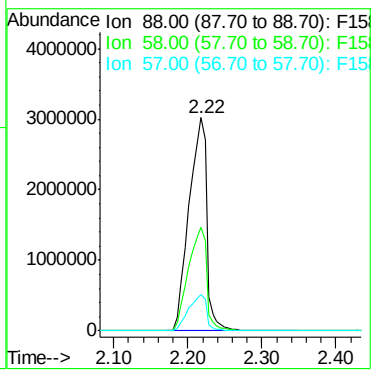




#2
1,4-Dioxane
Concen: 1637.94 ppm
RT: 2.22 min Scan# 82
Delta R.T. -0.03 min
Lab File: F158440.D
Acq: 28 Jun 2016 9:34 pm

Tgt Ion: 88 Resp: 4983729

Ion	Ratio	Lower	Upper
88	100		
58	48.7	24.1	84.1
57	17.2	0.0	48.8



7.1.13

7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158478.D Vial: 17
Acq On : 29 Jun 2016 6:31 pm Operator: brittanp
Sample : jc22206-10 Inst : MSF
Misc : op94859,ef6670,1000,,,1,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 18:52:59 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 16:40:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.77	152	212918	40.00	ppm	0.11
24) Naphthalene-d8	5.69	136	869791	40.00	ppm	0.11
47) Acenaphthene-d10	7.13	164	520835	40.00	ppm	0.12
69) Phenanthrene-d10	9.05	188	819774	40.00	ppm	0.15
83) Chrysene-d12	14.34	240	637156	40.00	ppm	0.19
92) Perylene-d12	17.40	264	576005	40.00	ppm	0.11
102) 1,4-Dichlorobenzene-d4b	4.77	152	212918	40.00	ppm	0.11
104) Naphthalene-d8b	5.69	136	869791	40.00	ppm	0.11
106) Acenaphthene-d10b	7.13	164	520835	40.00	ppm	0.12
108) Phenanthrene-d10b	9.05	188	819774	40.00	ppm	0.15
110) Chrysene-d12b	14.34	240	637156	40.00	ppm	0.19

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0d	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

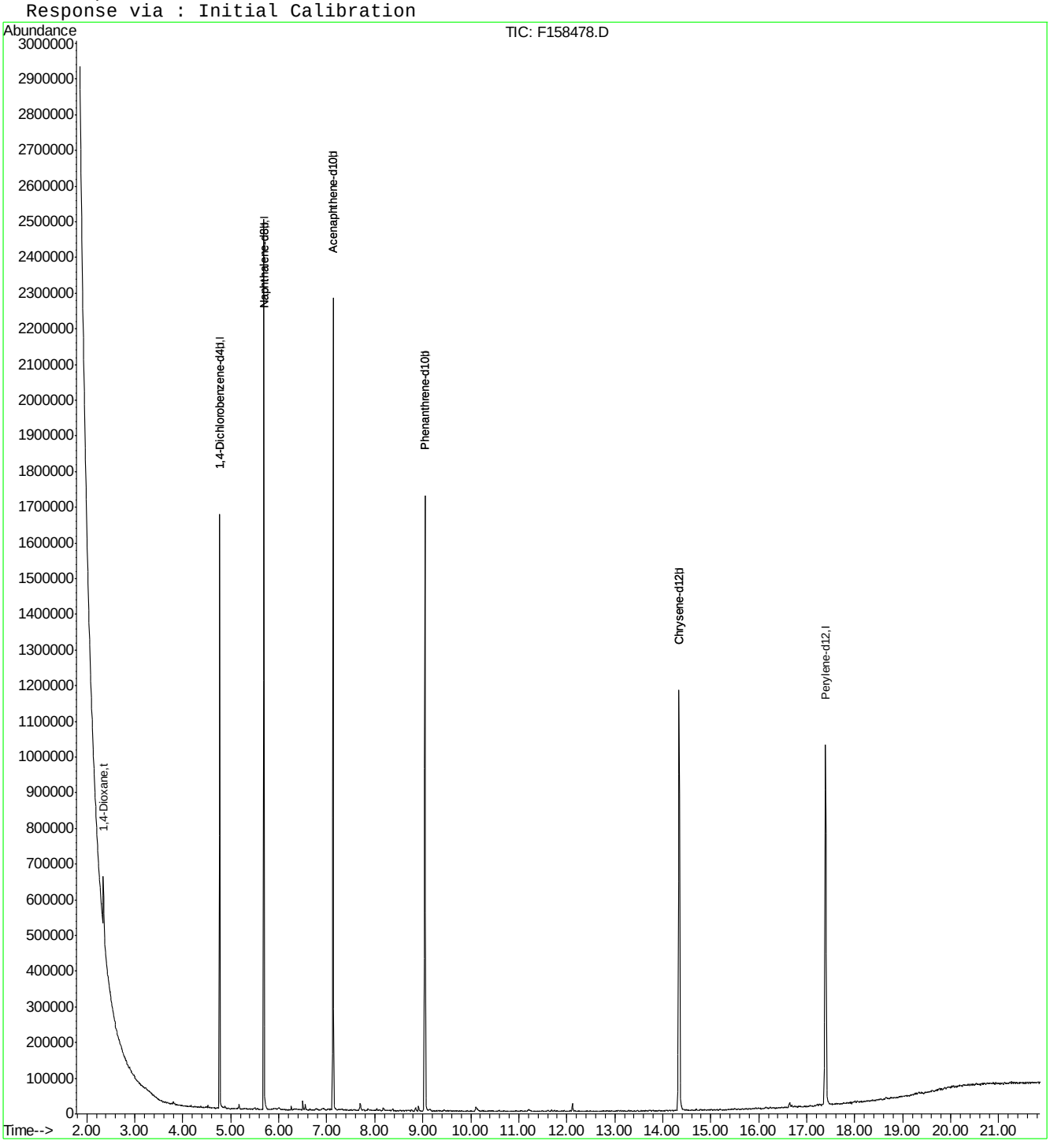
						Qvalue
2) 1,4-Dioxane	2.34	88	105644	27.03	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158478.D MF6644.M Thu Jun 30 08:11:29 2016 RT1

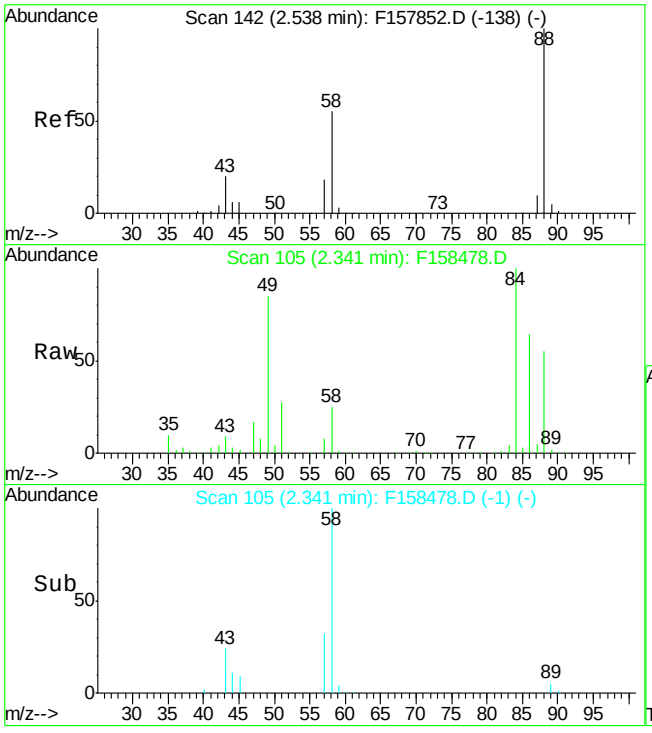
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158478.D Vial: 17
Acq On : 29 Jun 2016 6:31 pm Operator: brittanp
Sample : jc22206-10 Inst : MSF
Misc : op94859,ef6670,1000,,,1,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 30 8:11 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 16:40:01 2016
Response via : Initial Calibration



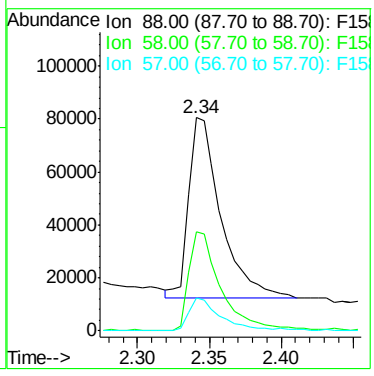
F158478.D MF6644.M Thu Jun 30 08:11:29 2016 RT1 Page 2



#2
1,4-Dioxane
Concen: 27.03 ppm
RT: 2.34 min Scan# 105
Delta R.T. 0.11 min
Lab File: F158478.D
Acq: 29 Jun 2016 6:31 pm

Tgt Ion: 88 Resp: 105644

Ion	Ratio	Lower	Upper
88	100		
58	55.0	24.1	84.1
57	18.0	0.0	48.8



7.1.14

7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158441.D Vial: 20
Acq On : 28 Jun 2016 10:04 pm Operator: ariellec
Sample : jc22206-11 Inst : MSF
Misc : op94859,ef6668,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 22:26:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:53:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

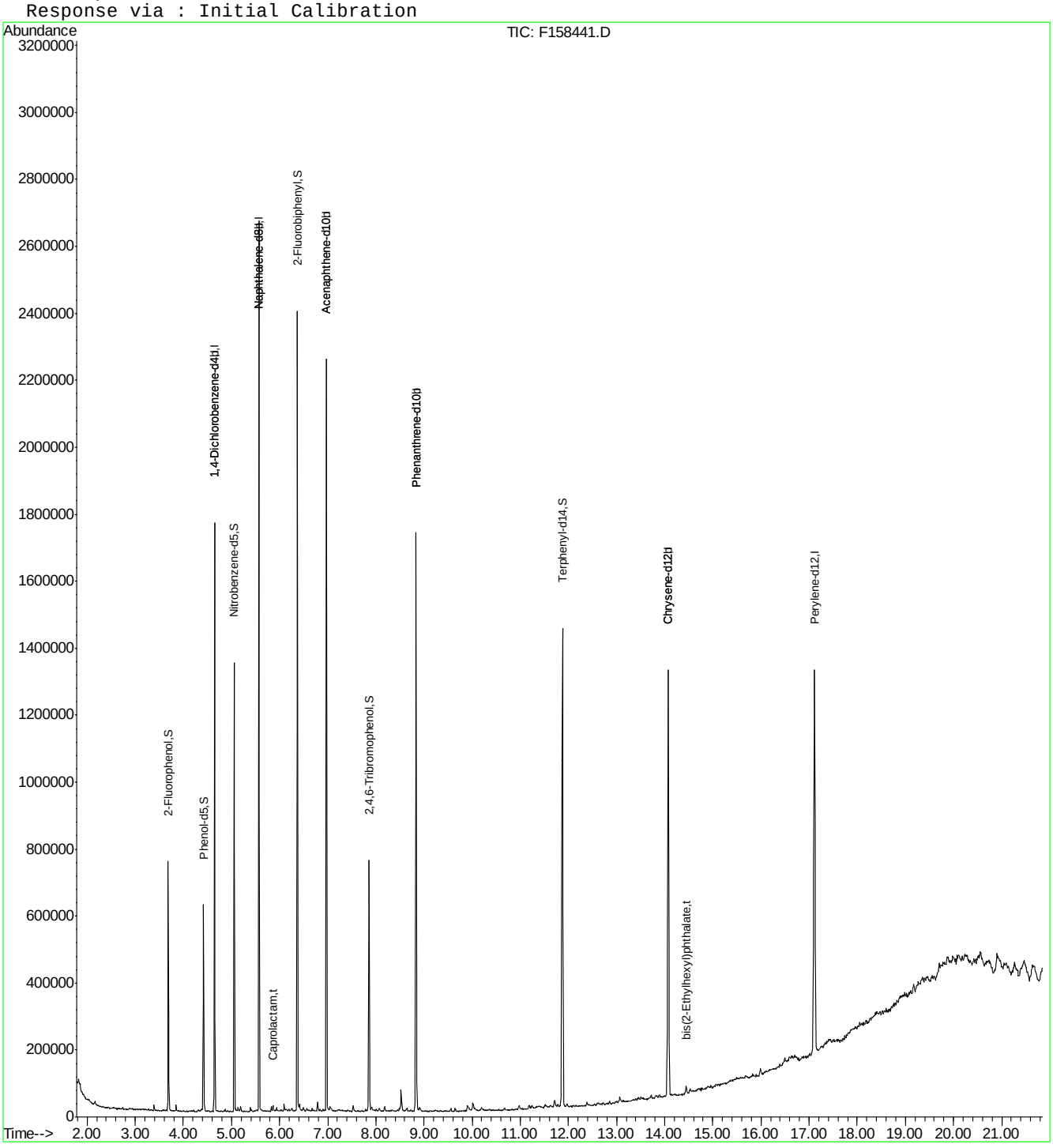
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	219477	40.00	ppm	-0.04
24) Naphthalene-d8	5.57	136	866619	40.00	ppm	-0.04
47) Acenaphthene-d10	6.97	164	504589	40.00	ppm	-0.05
69) Phenanthrene-d10	8.84	188	783746	40.00	ppm	-0.07
83) Chrysene-d12	14.07	240	676969	40.00	ppm	-0.11
92) Perylene-d12	17.11	264	624823	40.00	ppm	-0.10
102) 1,4-Dichlorobenzene-d4b	4.65	152	219477	40.00	ppm	-0.04
104) Naphthalene-d8b	5.57	136	866619	40.00	ppm	-0.04
106) Acenaphthene-d10b	6.97	164	504589	40.00	ppm	-0.05
108) Phenanthrene-d10b	8.84	188	783746	40.00	ppm	-0.07
110) Chrysene-d12b	14.07	240	676969	40.00	ppm	-0.11
System Monitoring Compounds						
5) 2-Fluorophenol	3.69	112	224006	27.41	ppm	-0.04
Spiked Amount 50.000			Recovery = 54.82%			
8) Phenol-d5	4.42	99	188724	17.84	ppm	-0.03
Spiked Amount 50.000			Recovery = 35.68%			
25) Nitrobenzene-d5	5.05	82	356652	41.14	ppm	-0.04
Spiked Amount 50.000			Recovery = 82.28%			
51) 2-Fluorobiphenyl	6.37	172	599592	37.77	ppm	-0.04
Spiked Amount 50.000			Recovery = 75.54%			
73) 2,4,6-Tribromophenol	7.86	330	75381	53.23	ppm	-0.06
Spiked Amount 50.000			Recovery = 106.46%			
85) Terphenyl-d14	11.88	244	665762	49.36	ppm	-0.09
Spiked Amount 50.000			Recovery = 98.72%			
Target Compounds						Qvalue
41) Caprolactam	5.86	55	2254	0.81	ppm	90
91) bis(2-Ethylhexyl)phthalate	14.45	149	10462	2.07	ppm	96

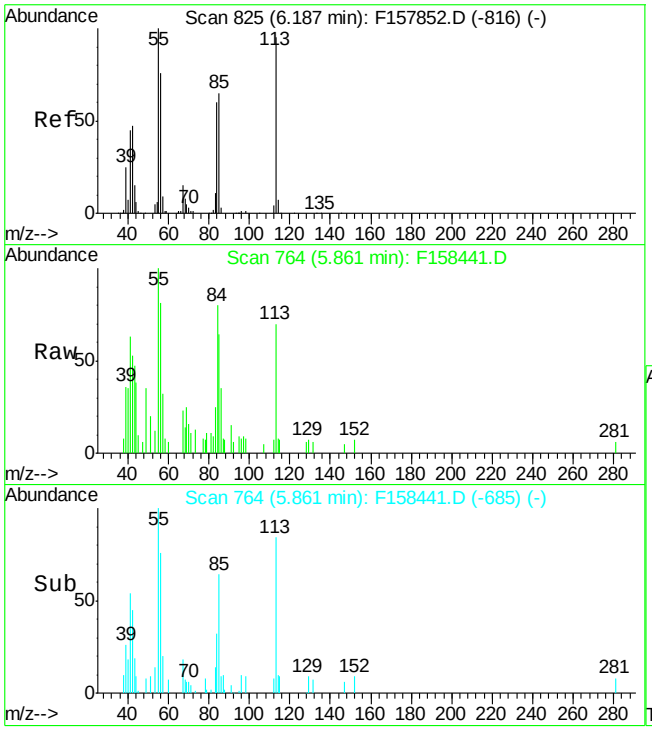
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158441.D Vial: 20
Acq On : 28 Jun 2016 10:04 pm Operator: ariellec
Sample : jc22206-11 Inst : MSF
Misc : op94859,ef6668,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 9:38 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 09:03:37 2016
Response via : Initial Calibration

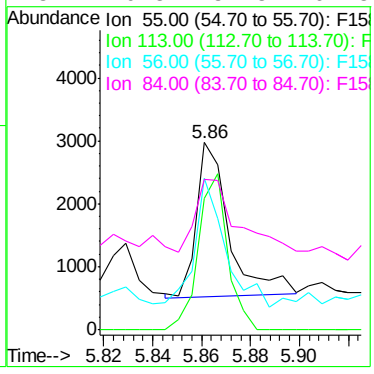


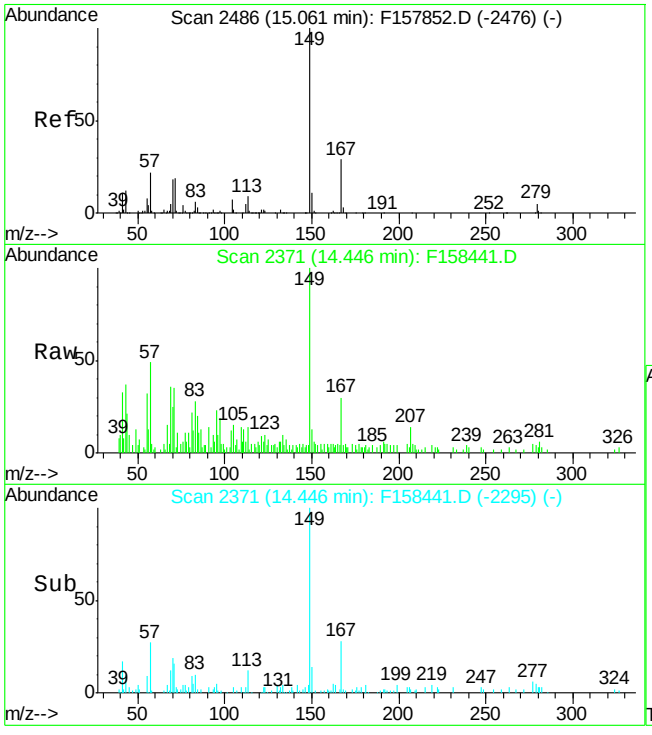


#41
Caprolactam
Concen: 0.81 ppm
RT: 5.86 min Scan# 764
Delta R.T. -0.08 min
Lab File: F158441.D
Acq: 28 Jun 2016 10:04 pm

Tgt Ion: 55 Resp: 2254

Ion	Ratio	Lower	Upper
55	100		
113	87.1	64.4	124.4
56	82.2	47.4	107.4
84	46.3	31.3	91.3

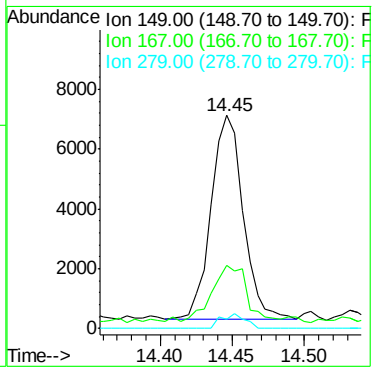




#91
bis(2-Ethylhexyl)phthalate
Concen: 2.07 ppm
RT: 14.45 min Scan# 2371
Delta R.T. -0.10 min
Lab File: F158441.D
Acq: 28 Jun 2016 10:04 pm

Tgt Ion:149 Resp: 10462

Ion	Ratio	Lower	Upper
149	100		
167	26.7	0.0	58.9
279	4.6	0.0	34.8



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/29/16 13:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66456.D
Acq On : 29 Jun 2016 9:13 am
Operator : linseyk
Sample : jc22206-1
Misc : op94835a,e4m2988,930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 11:20:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

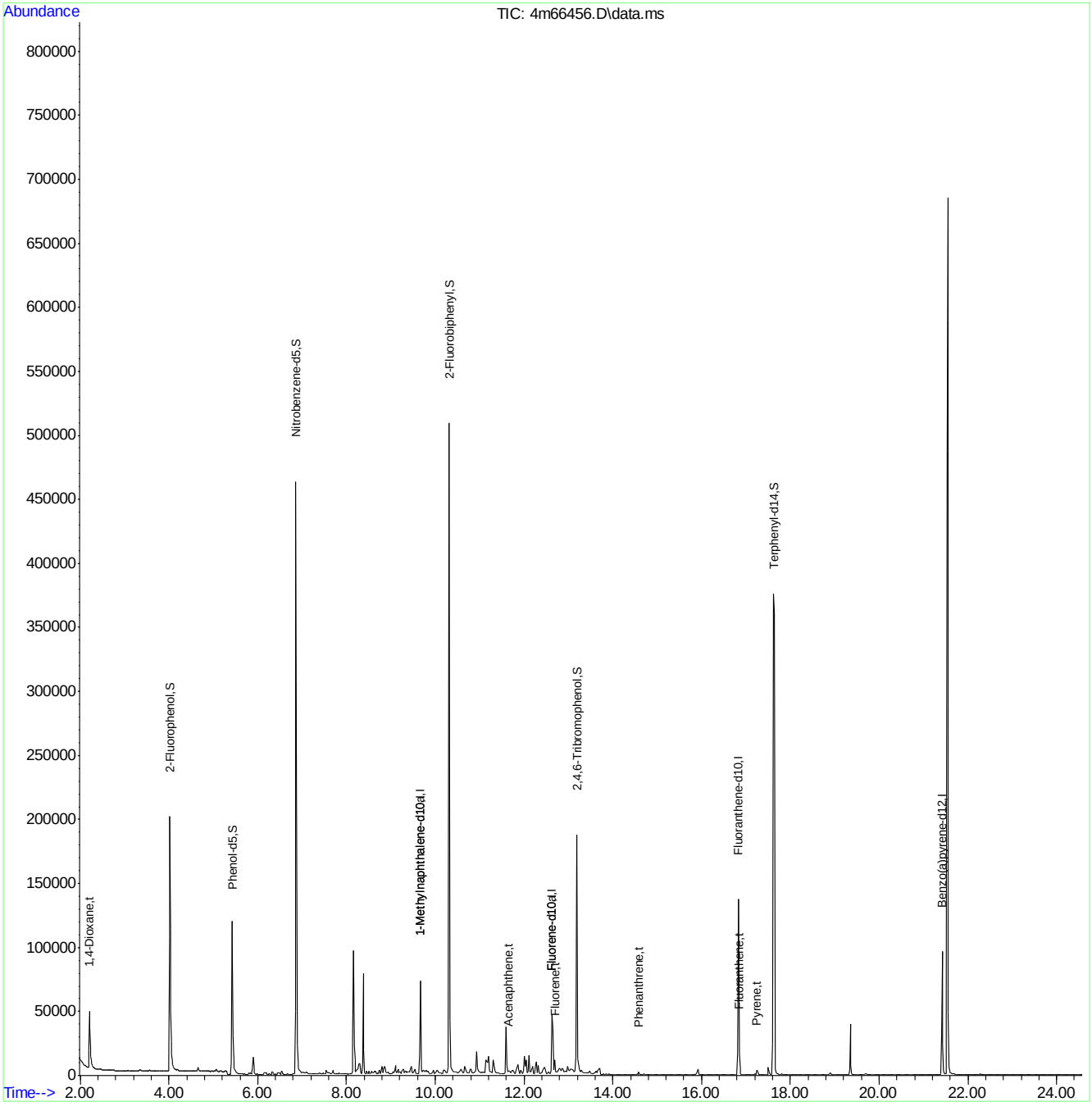
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	53930	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	54648	4.00	ppm	#-0.13
22) Fluoranthene-d10	16.826	212	146230	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	106847	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	53930	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	54648	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	158575	18.45	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 36.90%			
3) Phenol-d5	5.428	99	174735	12.90	ppm	-0.06
Spiked Amount 50.000			Recovery = 25.80%			
6) Nitrobenzene-d5	6.860	82	343075	28.46	ppm	-0.11
Spiked Amount 50.000			Recovery = 56.92%			
11) 2-Fluorobiphenyl	10.311	172	562851	25.93	ppm	-0.12
Spiked Amount 50.000			Recovery = 51.86%			
17) 2,4,6-Tribromophenol	13.194	330	139293	54.69	ppm	-0.12
Spiked Amount 50.000			Recovery = 109.38%			
25) Terphenyl-d14	17.636	244	654976	31.72	ppm	-0.11
Spiked Amount 50.000			Recovery = 63.44%			
Target Compounds						Qvalue
14) Acenaphthene	11.653	153	986	0.11	ppm	91
16) Fluorene	12.696	166	4436	0.27	ppm	93
20) Phenanthrene	14.586	178	2601	0.12	ppm	89
23) Fluoranthene	16.845	202	7197	0.17	ppm	91
24) Pyrene	17.240	202	4735	0.11	ppm	87
36) 1,4-Dioxane	2.205	88	39898m	11.28	ppm	

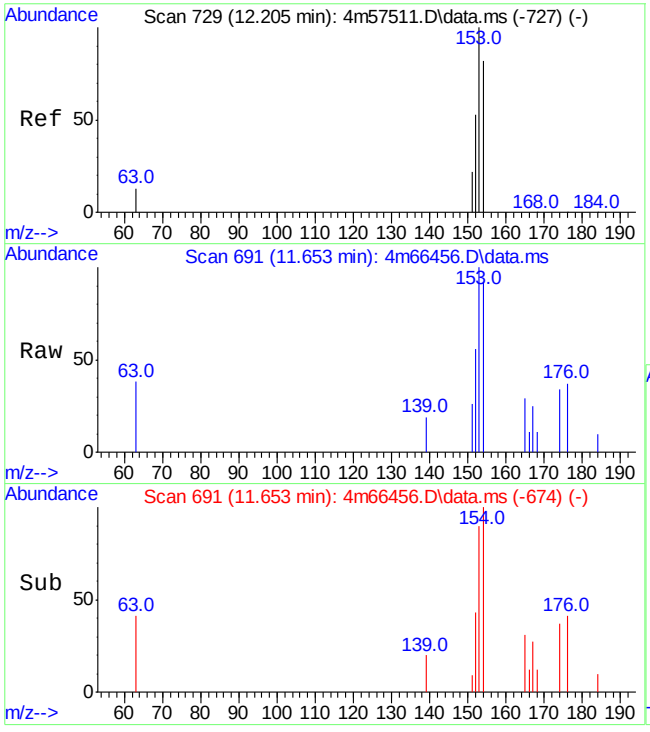
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66456.D
Acq On : 29 Jun 2016 9:13 am
Operator : linseyk
Sample : jc22206-1
Misc : op94835a,e4m2988,930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 11:20:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

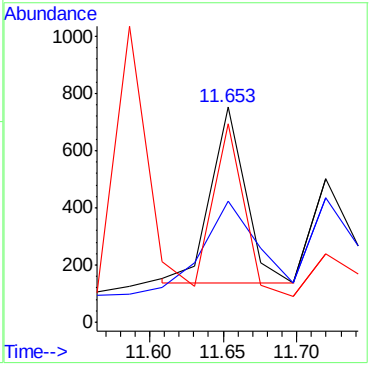


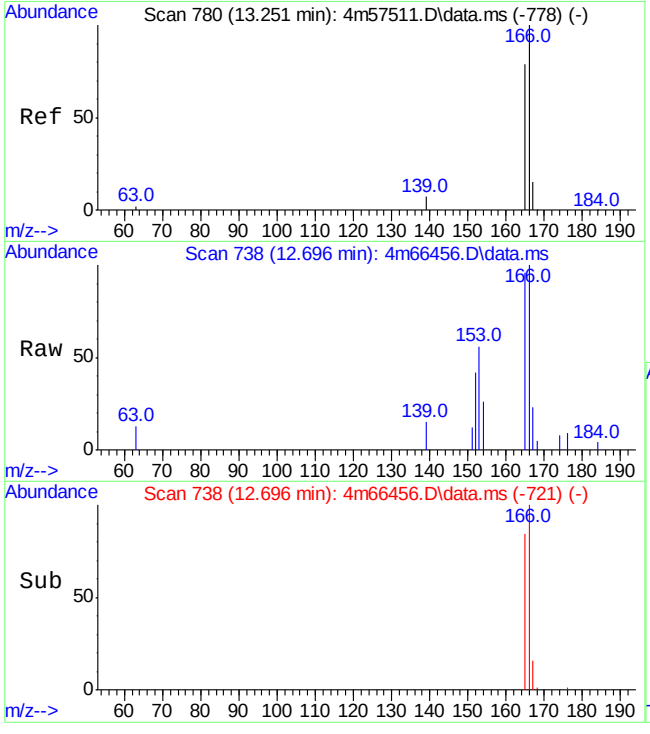


#14
Acenaphthene
Concen: 0.11 ppm
RT: 11.653 min Scan# 691
Delta R.T. -0.111 min
Lab File: 4m66456.D
Acq: 29 Jun 2016 9:13 am

Tgt Ion:153 Resp: 986

Ion	Ratio	Lower	Upper
153	100		
152	48.7	24.6	84.6
154	89.1	50.4	110.4

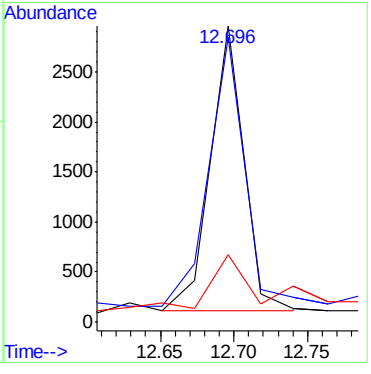


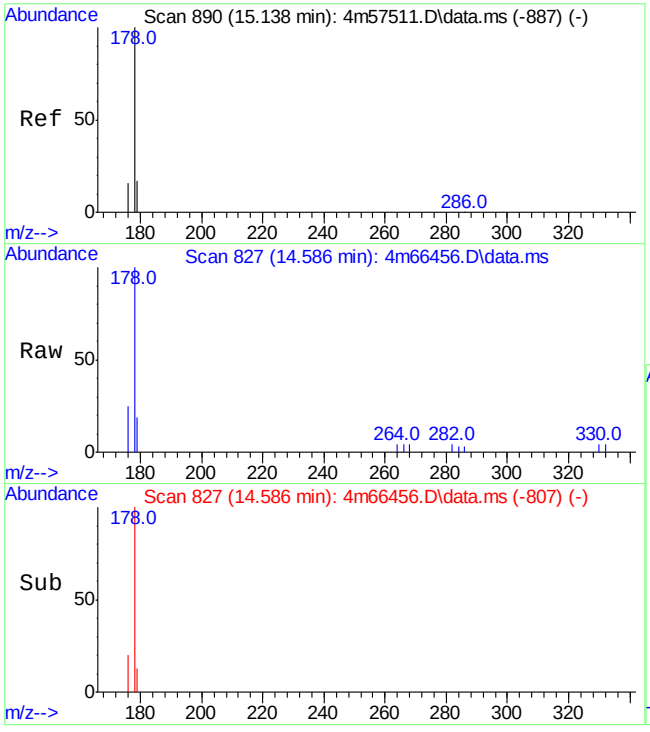


#16
Fluorene
Concen: 0.27 ppm
RT: 12.696 min Scan# 738
Delta R.T. -0.116 min
Lab File: 4m66456.D
Acq: 29 Jun 2016 9:13 am

Tgt Ion:166 Resp: 4436

Ion	Ratio	Lower	Upper
166	100		
165	93.3	55.6	115.6
167	13.8	0.0	43.6

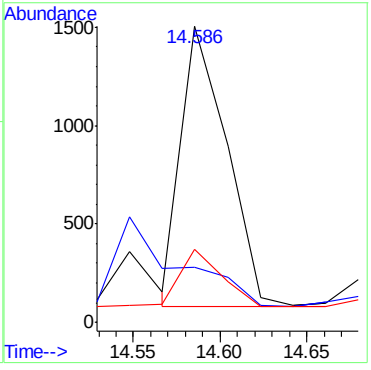


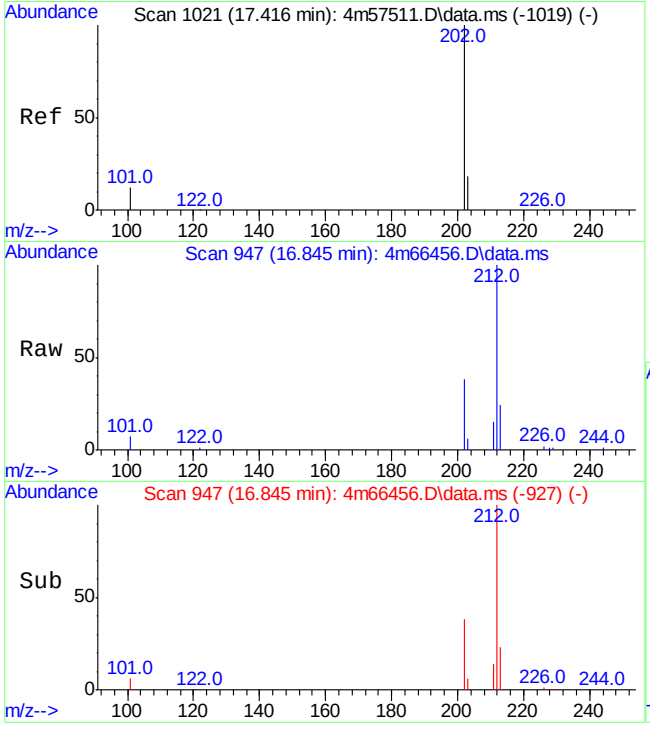


#20
Phenanthrene
Concen: 0.12 ppm
RT: 14.586 min Scan# 827
Delta R.T. -0.132 min
Lab File: 4m66456.D
Acq: 29 Jun 2016 9:13 am

Tgt Ion:178 Resp: 2601

Ion	Ratio	Lower	Upper
178	100		
179	7.6	0.0	45.0
176	20.5	0.0	48.2

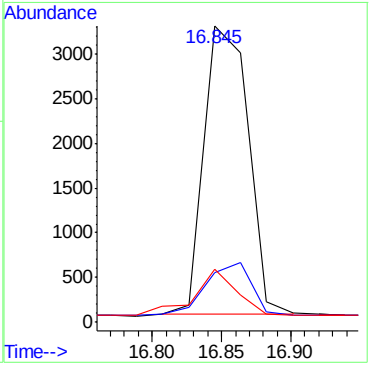


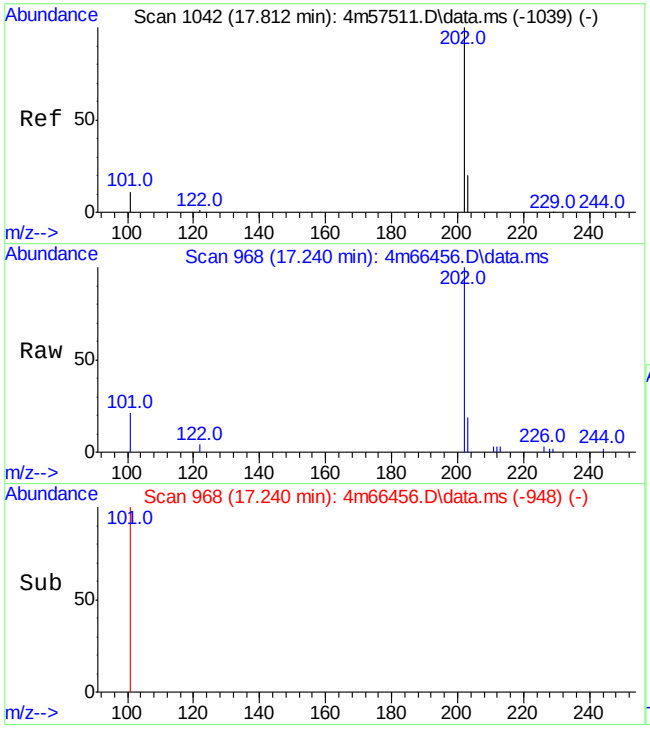


#23
Fluoranthene
Concen: 0.17 ppm
RT: 16.845 min Scan# 947
Delta R.T. -0.132 min
Lab File: 4m66456.D
Acq: 29 Jun 2016 9:13 am

Tgt Ion:202 Resp: 7197

Ion	Ratio	Lower	Upper
202	100		
203	14.7	0.0	47.8
101	14.4	0.0	39.9

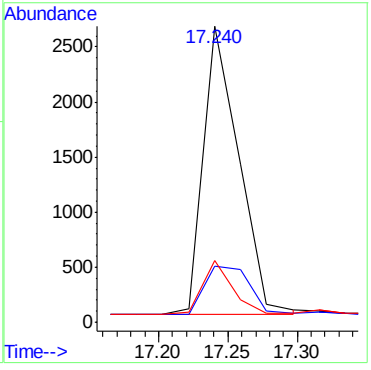


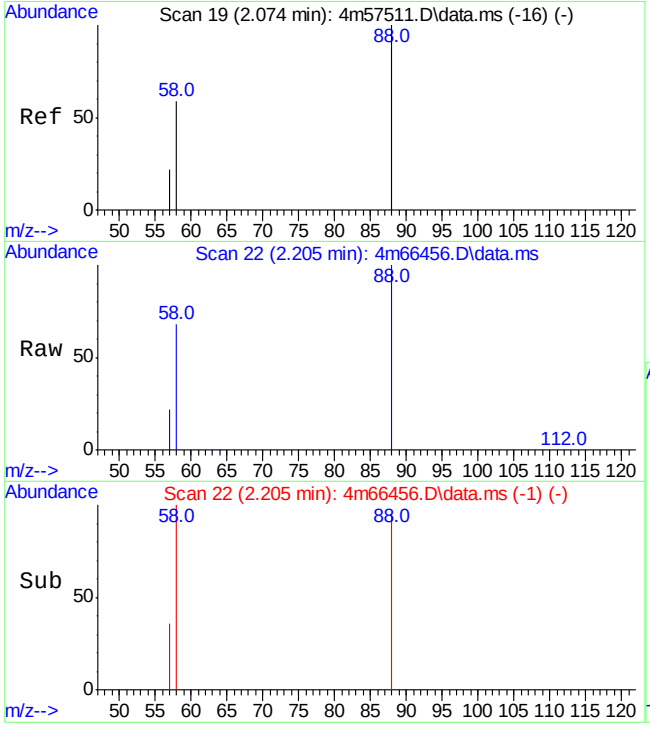


#24
Pyrene
Concen: 0.11 ppm
RT: 17.240 min Scan# 968
Delta R.T. -0.132 min
Lab File: 4m66456.D
Acq: 29 Jun 2016 9:13 am

Tgt Ion:202 Resp: 4735

Ion	Ratio	Lower	Upper
202	100		
203	16.6	0.0	50.1
101	18.8	0.0	40.0

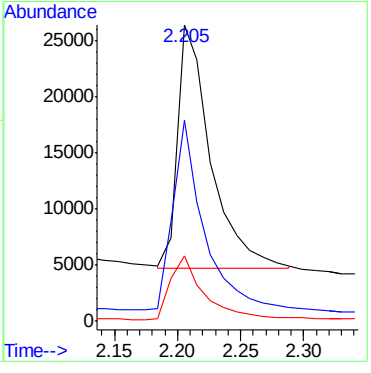




#36
1,4-Dioxane
Concen: 11.28 ppm m
RT: 2.205 min Scan# 22
Delta R.T. -0.021 min
Lab File: 4m66456.D
Acq: 29 Jun 2016 9:13 am

Tgt Ion: 88 Resp: 39898

Ion	Ratio	Lower	Upper
88	100		
58	67.8	0.0	28.3#
57	21.8	0.0	25.6



Manual Integration Approval Summary

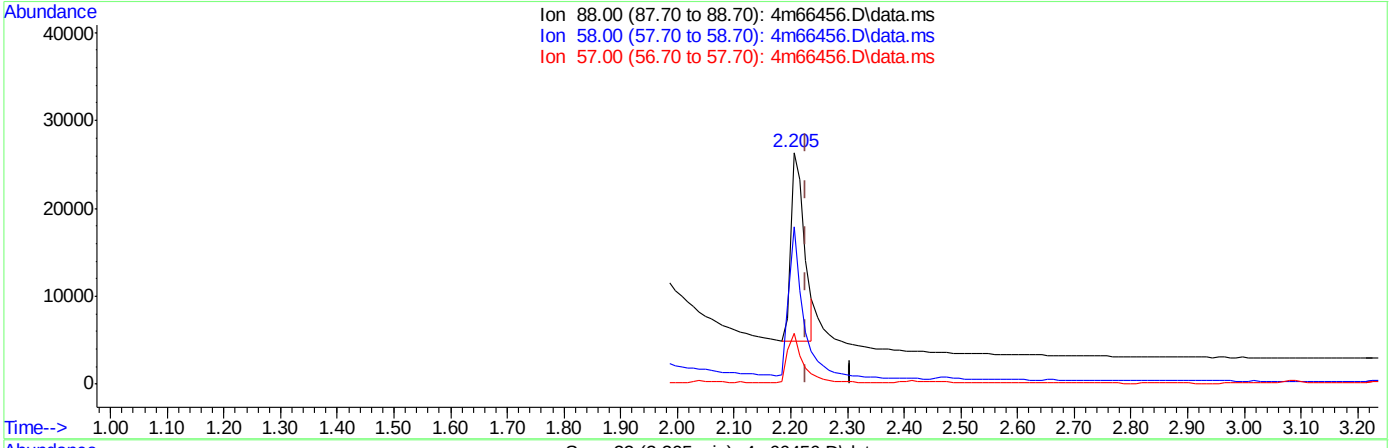
Sample Number:	JC22206-1	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66456.D	**Analyst approved:**	06/29/16 13:10 Linsey Kirschmann
Injection Time:	06/29/16 09:13	**Supervisor approved:**	06/29/16 13:23 Nina Pandya

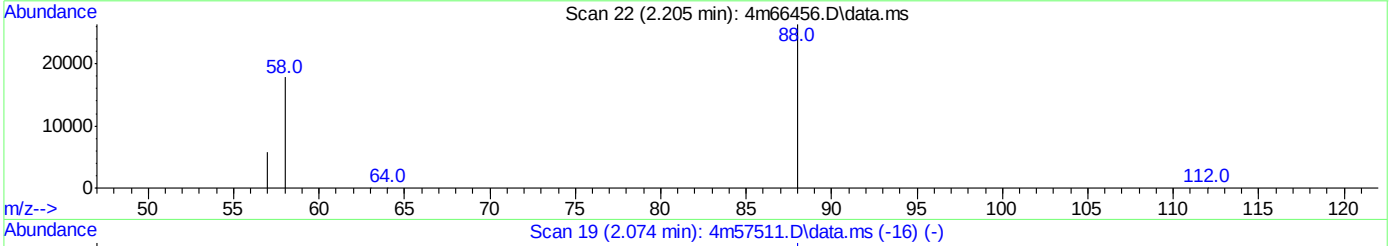
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.21	Poor instrument integration

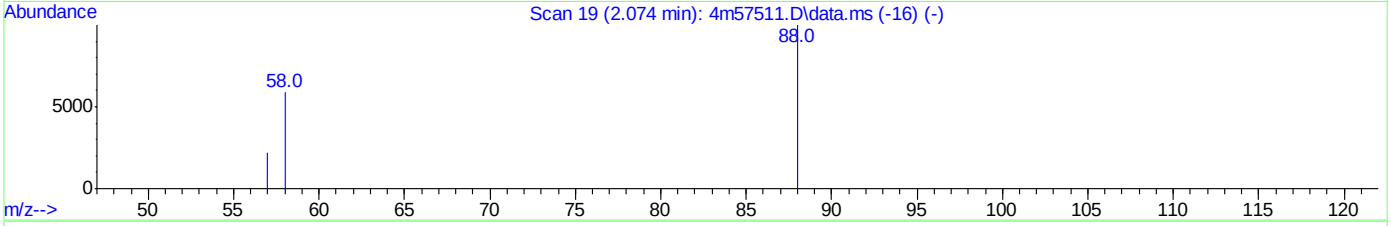
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66456.D
Acq On : 29 Jun 2016 9:13 am
Operator : linseyk
Sample : jc22206-1
Misc : op94835a,e4m2988,930
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 09:38:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66456.D\data.ms

(36) 1,4-Dioxane (t)

2.205min (-0.021) 9.96ppm

response 35063

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	81.07#
57.00	5.60	26.47#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/29/16 13:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66457.D
Acq On : 29 Jun 2016 9:43 am
Operator : linseyk
Sample : jc22206-2
Misc : op94835a,e4m2988,920
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 11:21:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

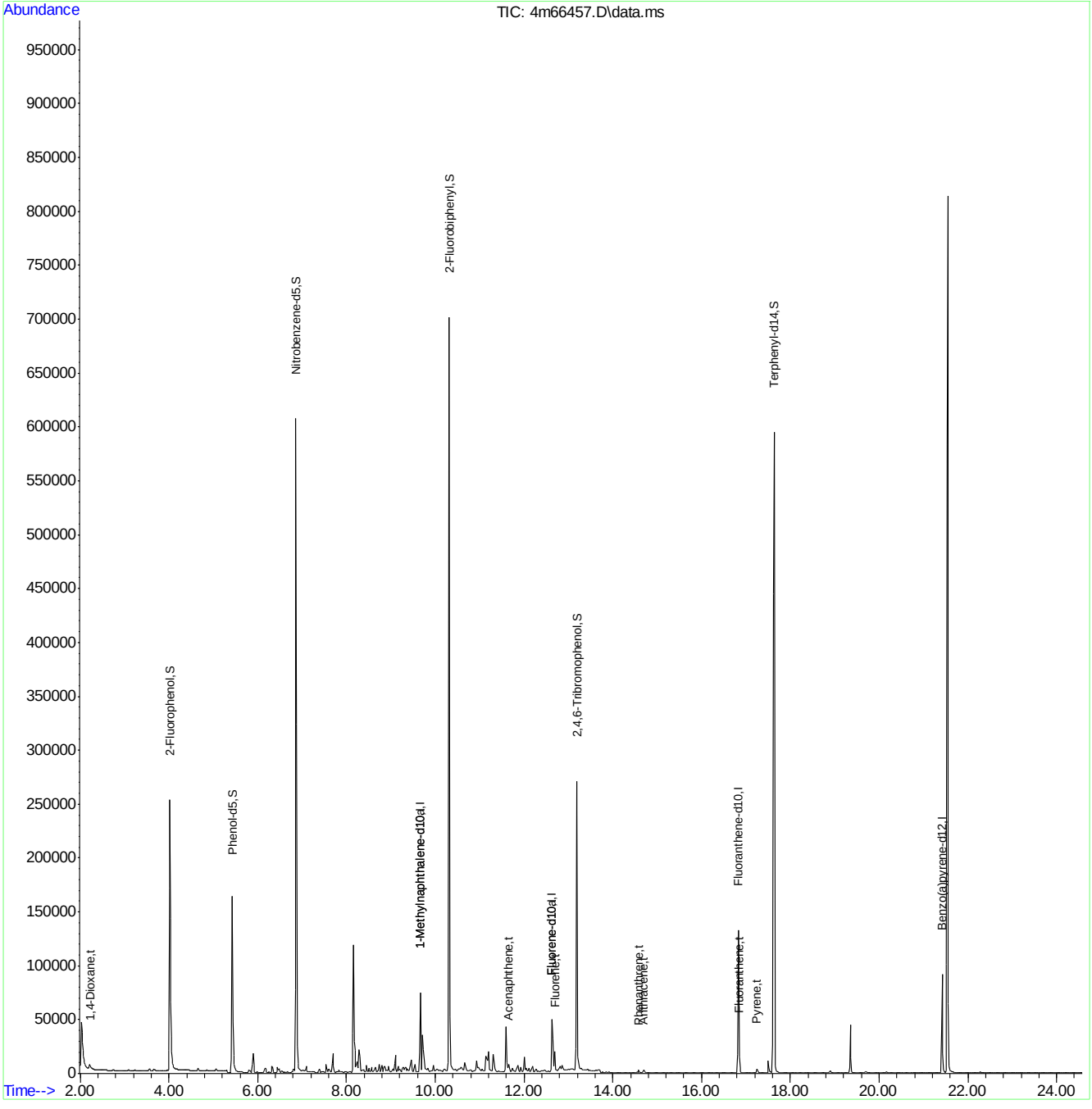
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	55249	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	54567	4.00	ppm	#-0.13
22) Fluoranthene-d10	16.826	212	139956	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.424	264	105043	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	55249	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	54567	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	218496	24.82	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 49.64%			
3) Phenol-d5	5.428	99	245605	17.69	ppm	-0.06
Spiked Amount 50.000			Recovery = 35.38%			
6) Nitrobenzene-d5	6.860	82	456736	36.99	ppm	-0.11
Spiked Amount 50.000			Recovery = 73.98%			
11) 2-Fluorobiphenyl	10.311	172	768471	34.56	ppm	-0.12
Spiked Amount 50.000			Recovery = 69.12%			
17) 2,4,6-Tribromophenol	13.194	330	203447	80.00	ppm	-0.12
Spiked Amount 50.000			Recovery = 160.00%			
25) Terphenyl-d14	17.636	244	924247	46.76	ppm	-0.11
Spiked Amount 50.000			Recovery = 93.52%			
Target Compounds						Qvalue
14) Acenaphthene	11.653	153	3477	0.39	ppm	83
16) Fluorene	12.696	166	12526	0.78	ppm	99
20) Phenanthrene	14.586	178	3244	0.15	ppm	90
21) Anthracene	14.699	178	3590	0.18	ppm	95
23) Fluoranthene	16.845	202	7371	0.18	ppm	91
24) Pyrene	17.241	202	4106	0.10	ppm	89
36) 1,4-Dioxane	2.216	88	2604m	0.67	ppm	

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

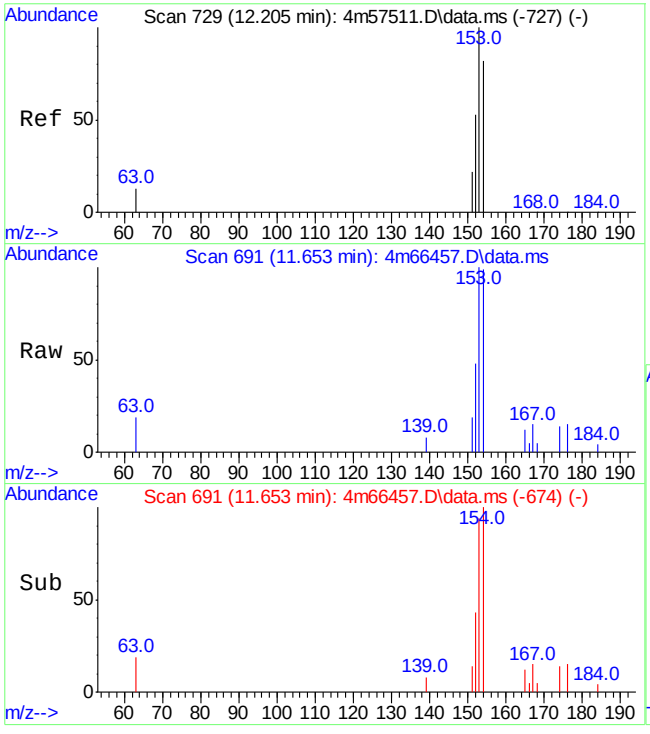
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66457.D
Acq On : 29 Jun 2016 9:43 am
Operator : linseyk
Sample : jc22206-2
Misc : op94835a,e4m2988,920
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 11:21:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration



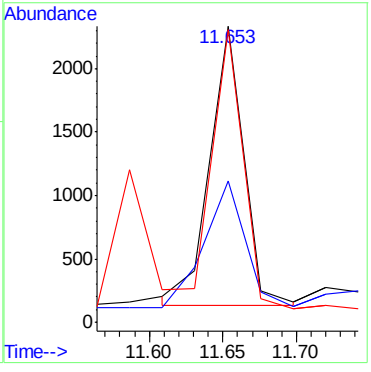
M4M2974SIM.M Wed Jun 29 11:21:06 2016 MANAGER Page: 2

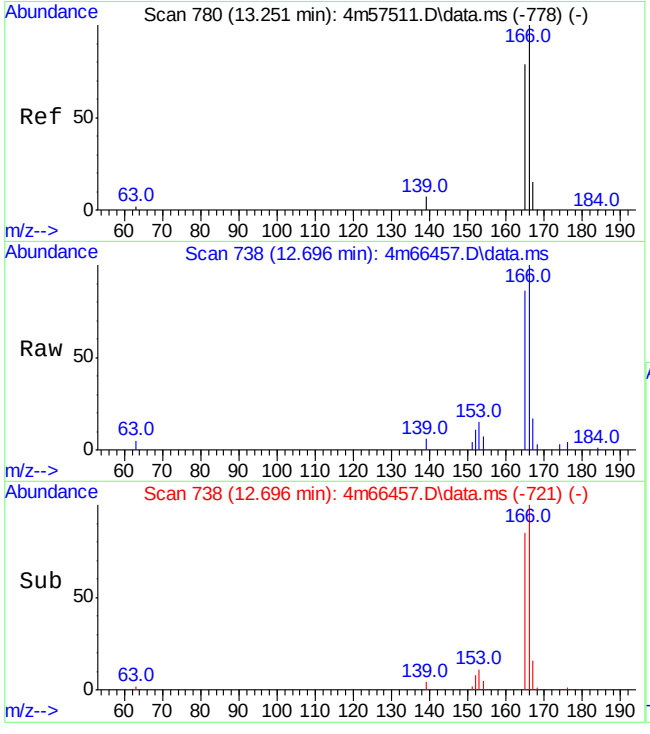


#14
Acenaphthene
Concen: 0.39 ppm
RT: 11.653 min Scan# 691
Delta R.T. -0.111 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion:153 Resp: 3477

Ion	Ratio	Lower	Upper
153	100		
152	46.5	24.6	84.6
154	98.8	50.4	110.4

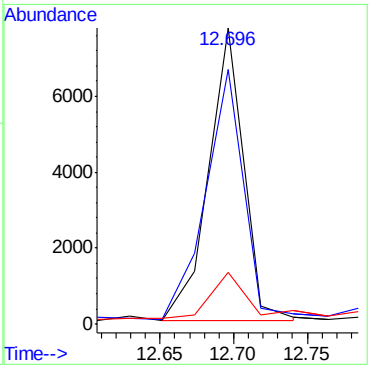


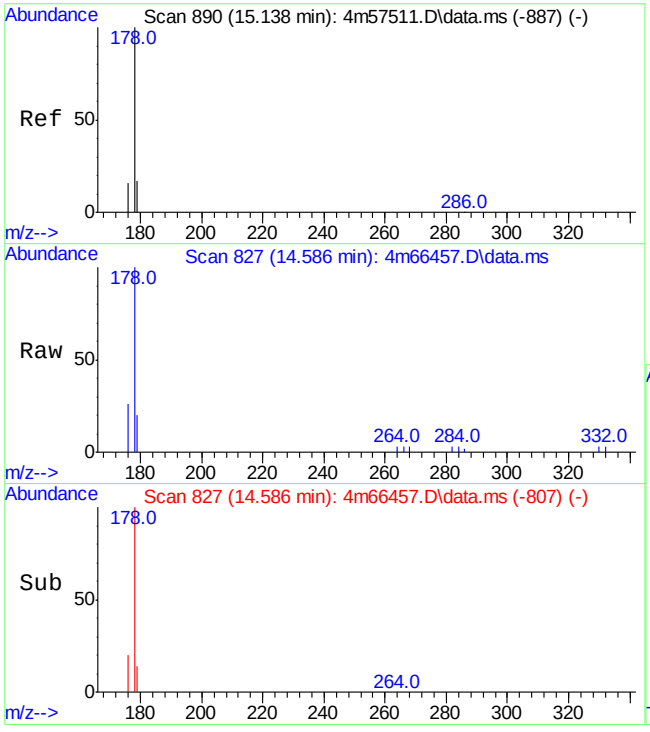


#16
Fluorene
Concen: 0.78 ppm
RT: 12.696 min Scan# 738
Delta R.T. -0.116 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion:166 Resp: 12526

Ion	Ratio	Lower	Upper
166	100		
165	85.2	55.6	115.6
167	14.4	0.0	43.6

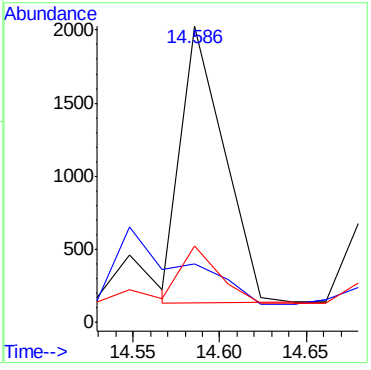


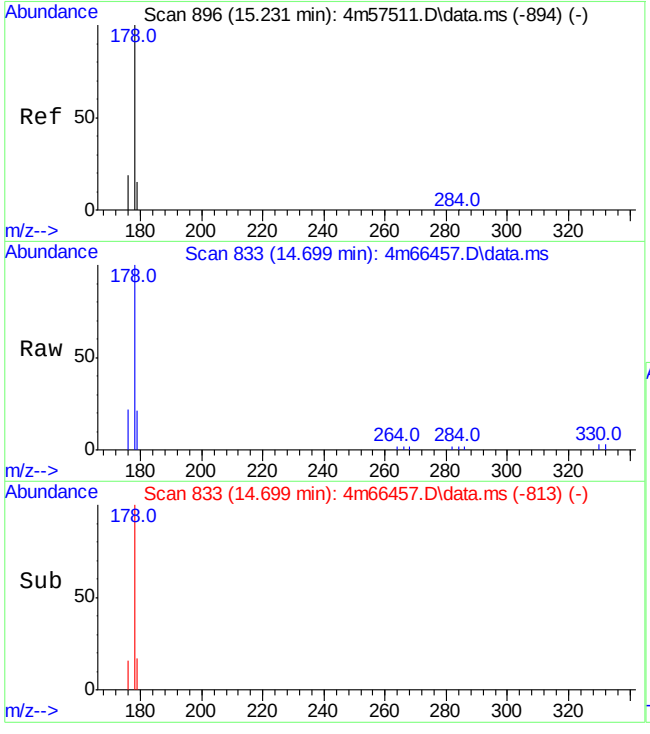


#20
Phenanthrene
Concen: 0.15 ppm
RT: 14.586 min Scan# 827
Delta R.T. -0.131 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion:178 Resp: 3244

Ion	Ratio	Lower	Upper
178	100		
179	8.4	0.0	45.0
176	20.2	0.0	48.2

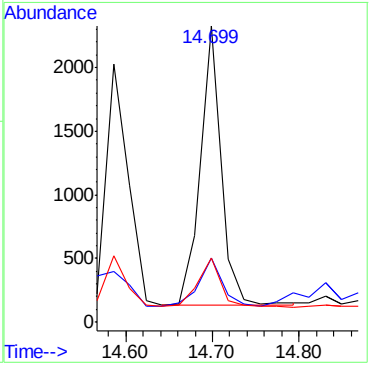


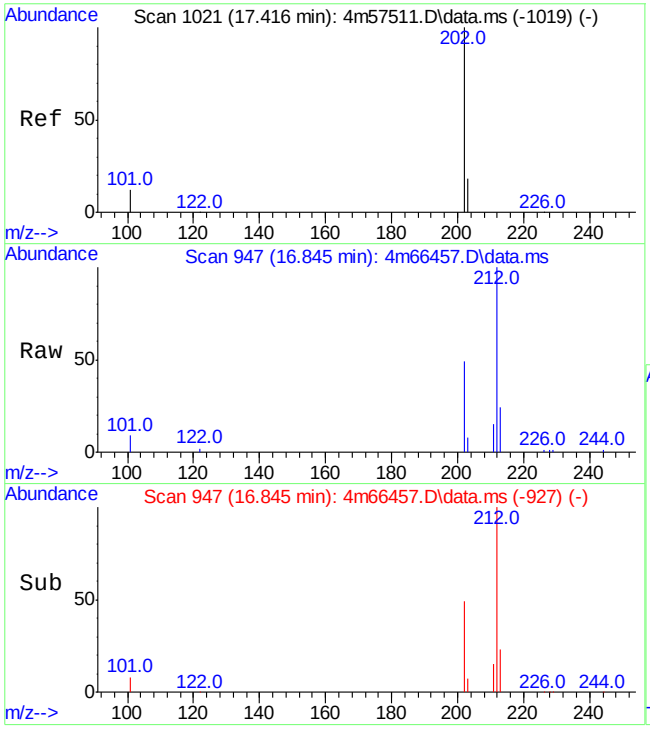


#21
Anthracene
Concen: 0.18 ppm
RT: 14.699 min Scan# 833
Delta R.T. -0.132 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion:178 Resp: 3590

Ion	Ratio	Lower	Upper
178	100		
179	14.8	0.0	47.0
176	17.3	0.0	45.1

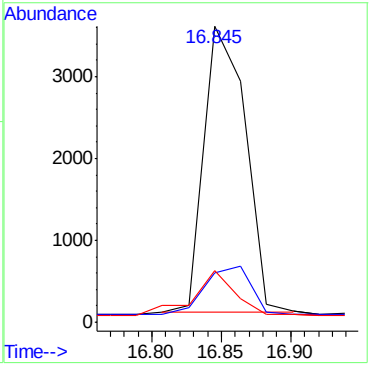


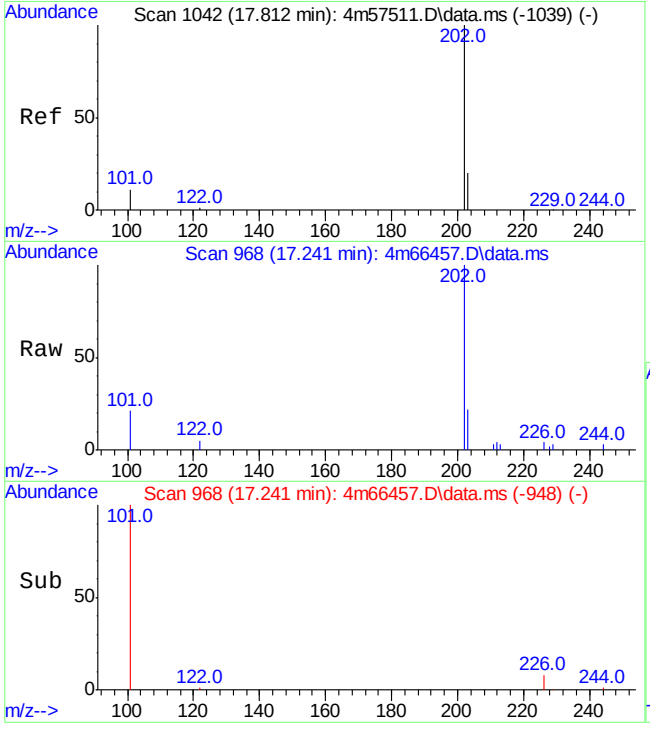


#23
Fluoranthene
Concen: 0.18 ppm
RT: 16.845 min Scan# 947
Delta R.T. -0.132 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion:202 Resp: 7371

Ion	Ratio	Lower	Upper
202	100		
203	14.5	0.0	47.8
101	13.8	0.0	39.9

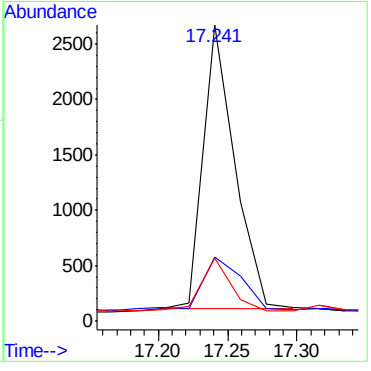


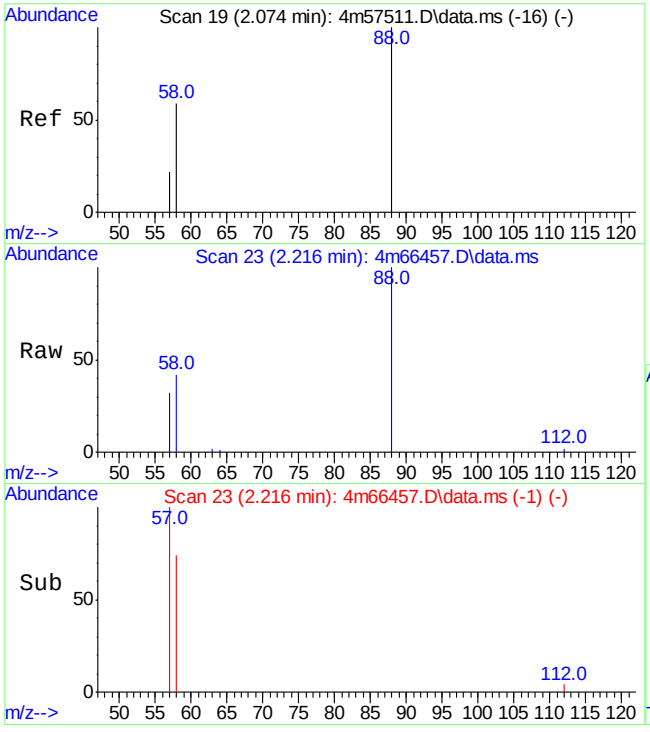


#24
Pyrene
Concen: 0.10 ppm
RT: 17.241 min Scan# 968
Delta R.T. -0.132 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion:202 Resp: 4106

Ion	Ratio	Lower	Upper
202	100		
203	18.1	0.0	50.1
101	18.6	0.0	40.0

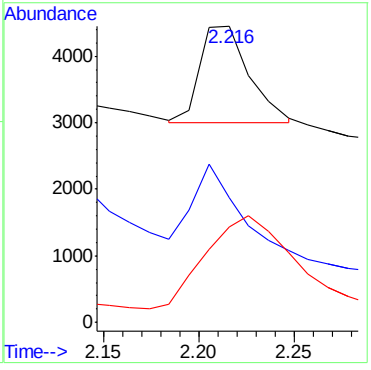




#36
1,4-Dioxane
Concen: 0.67 ppm m
RT: 2.216 min Scan# 23
Delta R.T. -0.010 min
Lab File: 4m66457.D
Acq: 29 Jun 2016 9:43 am

Tgt Ion: 88 Resp: 2604

Ion	Ratio	Lower	Upper
88	100		
58	42.2	0.0	28.3#
57	32.2	0.0	25.6#



SGS ACCUTEST JC22206

Manual Integration Approval Summary

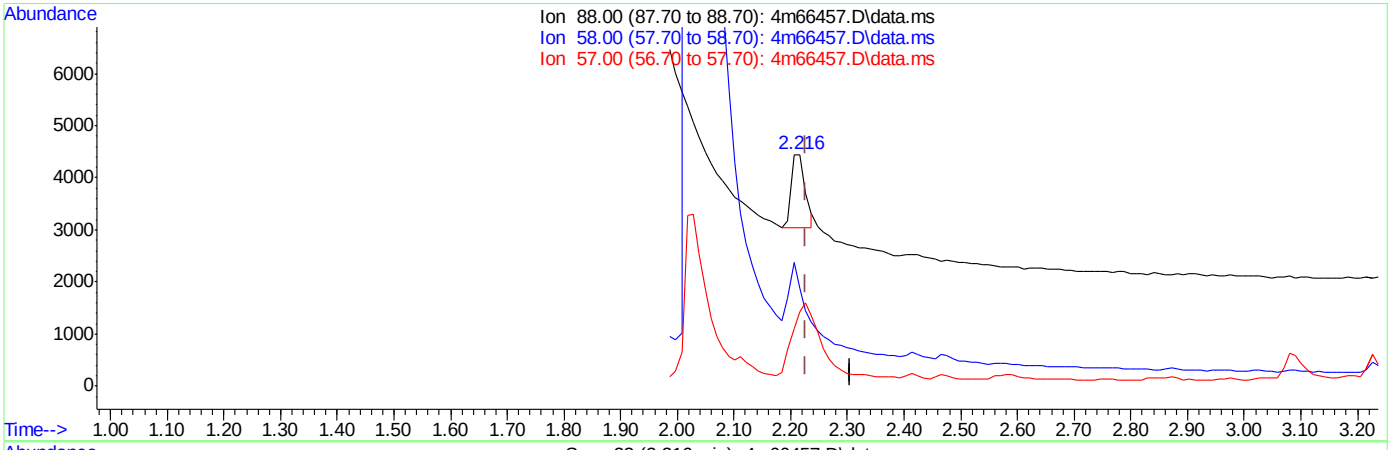
Sample Number:	JC22206-2	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66457.D	**Analyst approved:**	06/29/16 13:10 Linsey Kirschmann
Injection Time:	06/29/16 09:43	**Supervisor approved:**	06/29/16 13:23 Nina Pandya

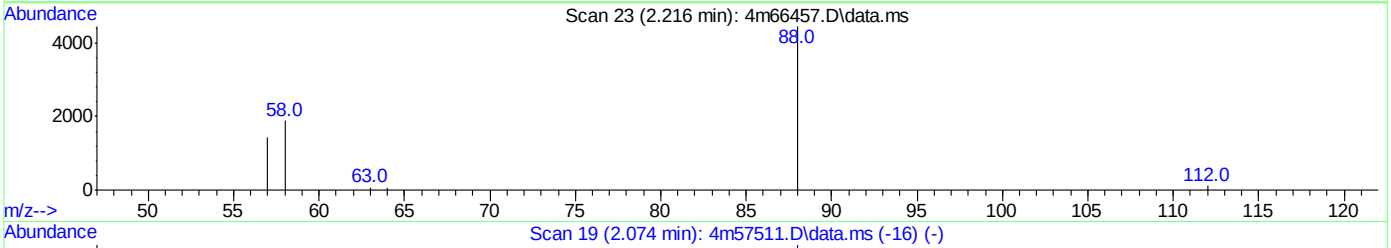
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.22	Poor instrument integration

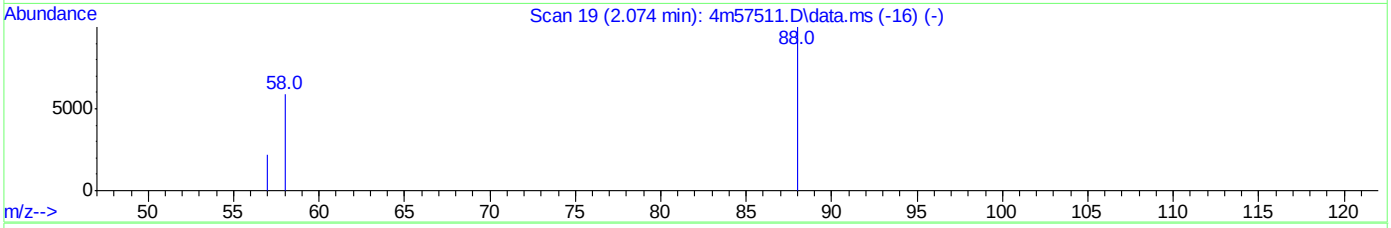
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66457.D
Acq On : 29 Jun 2016 9:43 am
Operator : linseyk
Sample : jc22206-2
Misc : op94835a,e4m2988,920
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:08:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66457.D\data.ms

(36) 1,4-Dioxane (t)

2.216min (-0.010) 0.61ppm

response 2417

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	50.24#
57.00	5.60	48.19#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/29/16 13:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66458.D
Acq On : 29 Jun 2016 10:14 am
Operator : linseyk
Sample : jc22206-3
Misc : op94835a,e4m2988,940
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 11:21:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

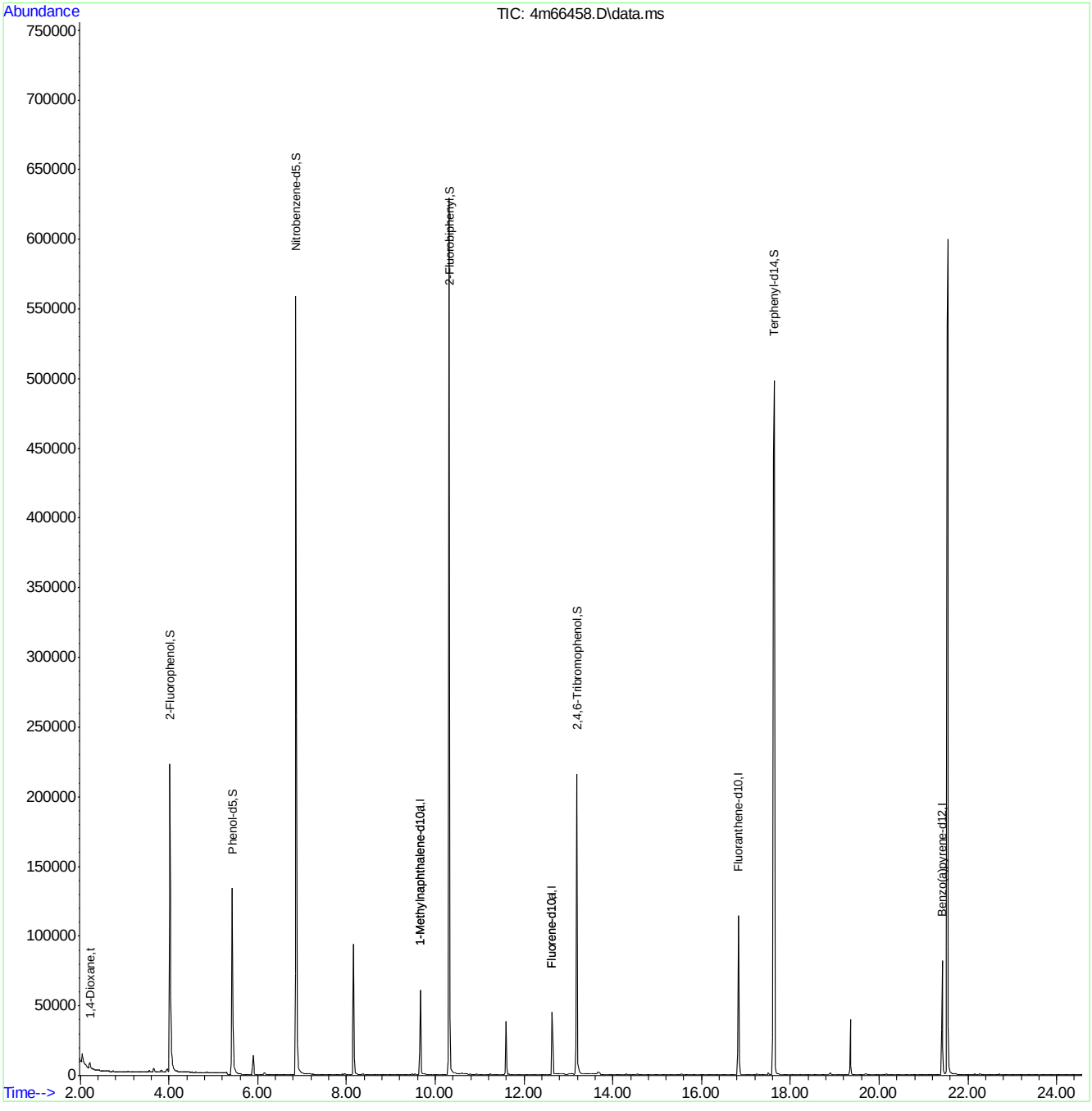
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	48297	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	47331	4.00	ppm	#-0.13
22) Fluoranthene-d10	16.826	212	122203	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.424	264	94338	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	48297	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	47331	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	182583	23.72	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 47.44%			
3) Phenol-d5	5.428	99	197787	16.30	ppm	-0.06
Spiked Amount 50.000			Recovery = 32.60%			
6) Nitrobenzene-d5	6.860	82	412374	38.20	ppm	-0.11
Spiked Amount 50.000			Recovery = 76.40%			
11) 2-Fluorobiphenyl	10.311	172	691036	35.55	ppm	-0.12
Spiked Amount 50.000			Recovery = 71.10%			
17) 2,4,6-Tribromophenol	13.194	330	164071	74.38	ppm	-0.12
Spiked Amount 50.000			Recovery = 148.76%			
25) Terphenyl-d14	17.636	244	843195	48.86	ppm	-0.11
Spiked Amount 50.000			Recovery = 97.72%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.216	88	4115m	1.28	ppm	

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

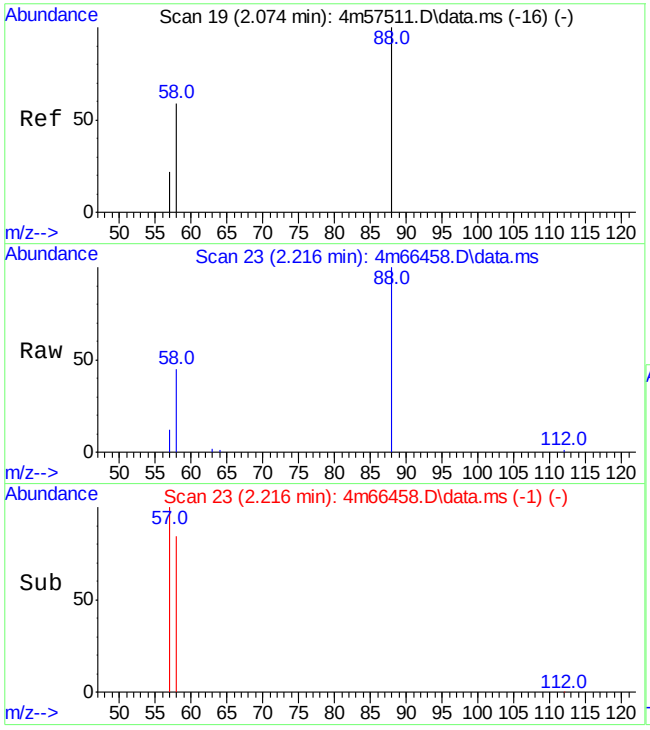
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66458.D
Acq On : 29 Jun 2016 10:14 am
Operator : linseyk
Sample : jc22206-3
Misc : op94835a,e4m2988,940
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 11:21:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration



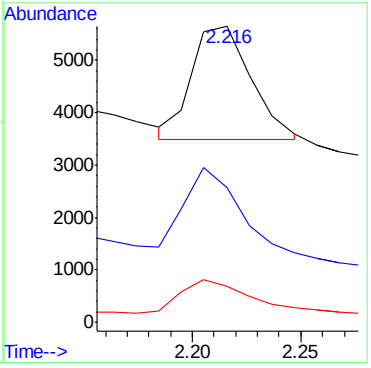
M4M2974SIM.M Wed Jun 29 11:22:15 2016 MANAGER Page: 2



#36
1,4-Dioxane
Concen: 1.28 ppm m
RT: 2.216 min Scan# 23
Delta R.T. -0.010 min
Lab File: 4m66458.D
Acq: 29 Jun 2016 10:14 am

Tgt Ion: 88 Resp: 4115

Ion	Ratio	Lower	Upper
88	100		
58	45.4	0.0	28.3#
57	12.3	0.0	25.6



7.1.18

7

Manual Integration Approval Summary

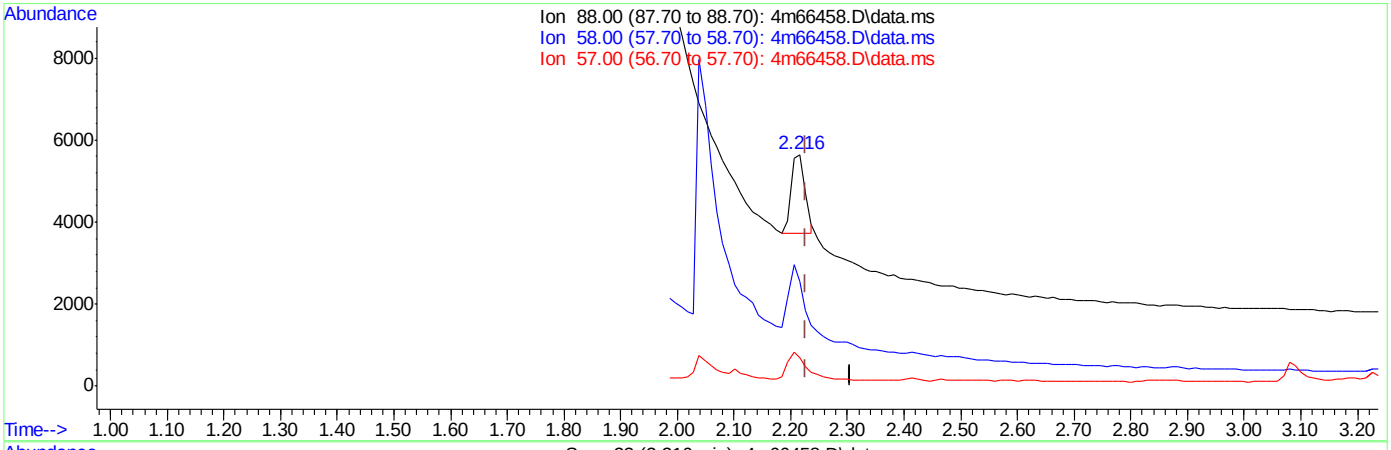
Sample Number:	JC22206-3	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66458.D	**Analyst approved:**	06/29/16 13:10 Linsey Kirschmann
Injection Time:	06/29/16 10:14	**Supervisor approved:**	06/29/16 13:23 Nina Pandya

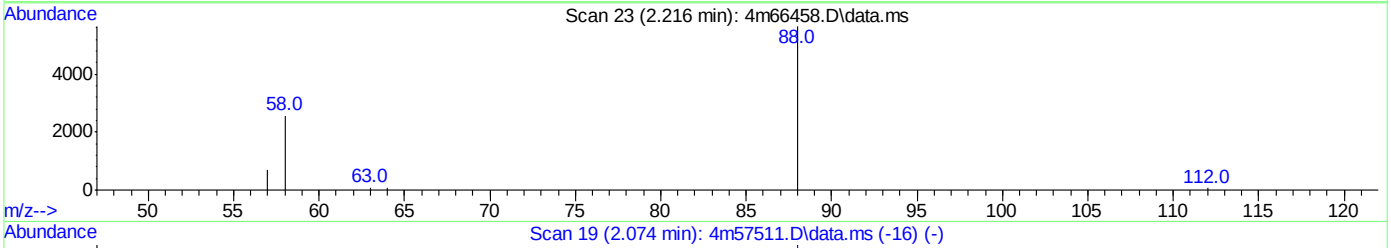
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.22	Poor instrument integration

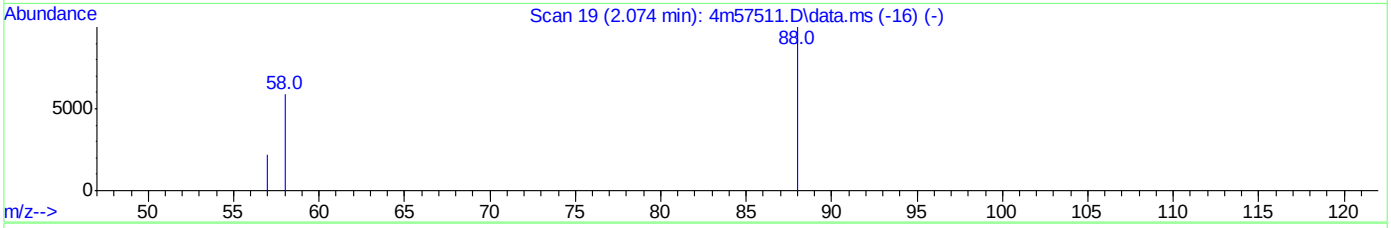
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66458.D
Acq On : 29 Jun 2016 10:14 am
Operator : linseyk
Sample : jc22206-3
Misc : op94835a,e4m2988,940
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 10:39:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66458.D\data.ms

(36) 1,4-Dioxane (t)

2.216min (-0.010) 1.01ppm

response 3320

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	60.63#
57.00	5.60	22.57
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/01/16 11:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66467.D
Acq On : 29 Jun 2016 3:17 pm
Operator : linseyk
Sample : jc22206-4
Misc : op94859a,e4m2989,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 29 15:44:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	32960	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	43190	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	98544	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	80200	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	32960	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	43190	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	159811	30.43	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.86%#			
3) Phenol-d5	5.415	99	181676	21.94	ppm	-0.07
Spiked Amount 50.000			Recovery = 43.88%			
6) Nitrobenzene-d5	6.860	82	351336	47.69	ppm	-0.11
Spiked Amount 50.000			Recovery = 95.38%			
11) 2-Fluorobiphenyl	10.311	172	676523	50.99	ppm	-0.12
Spiked Amount 50.000			Recovery = 101.98%			
17) 2,4,6-Tribromophenol	13.194	330	128496	63.84	ppm	-0.12
Spiked Amount 50.000			Recovery = 127.68%			
25) Terphenyl-d14	17.617	244	656367	47.17	ppm	-0.13
Spiked Amount 50.000			Recovery = 94.34%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.205	88	6074m	2.86	ppm	

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

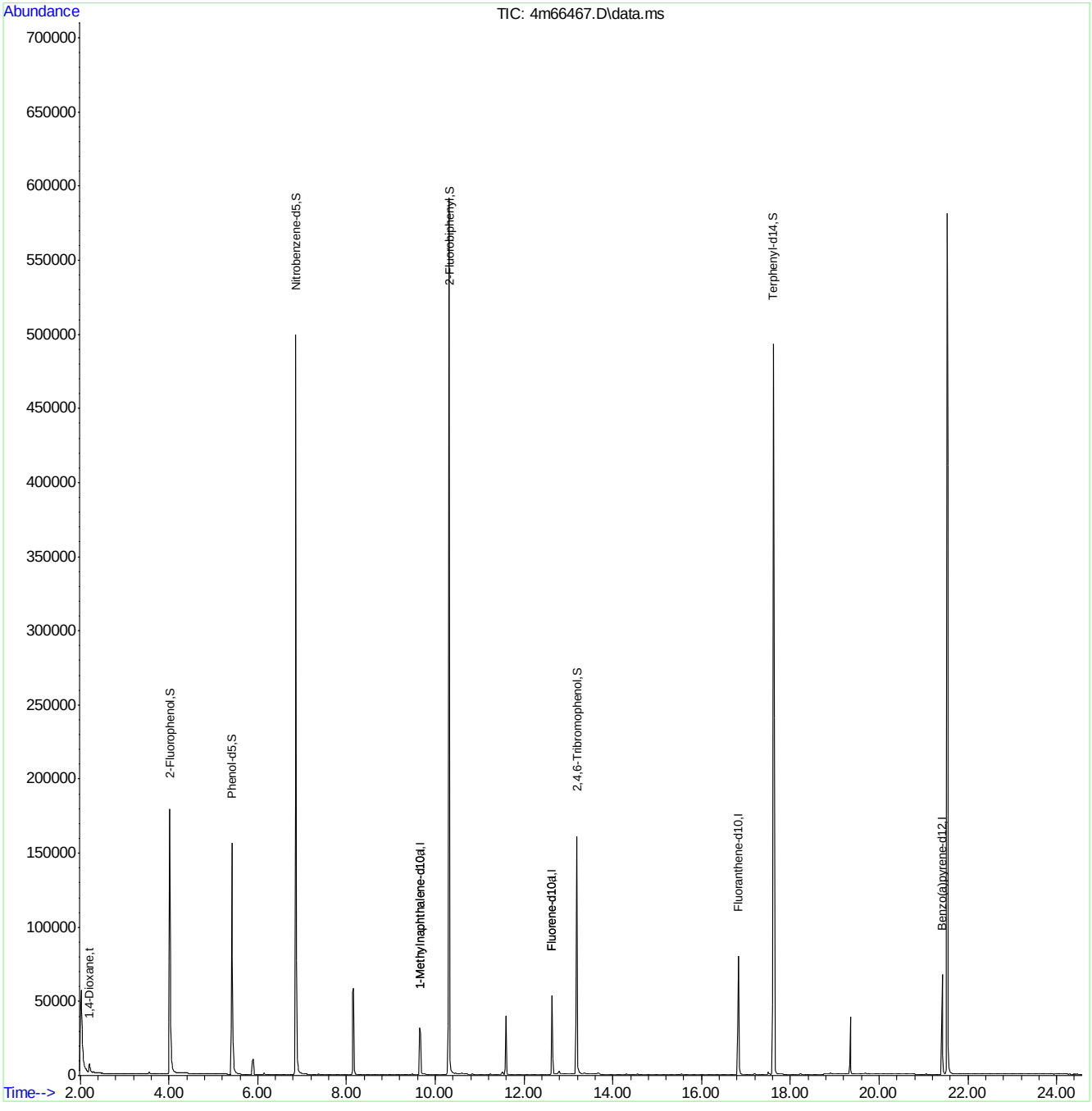
7.1.19

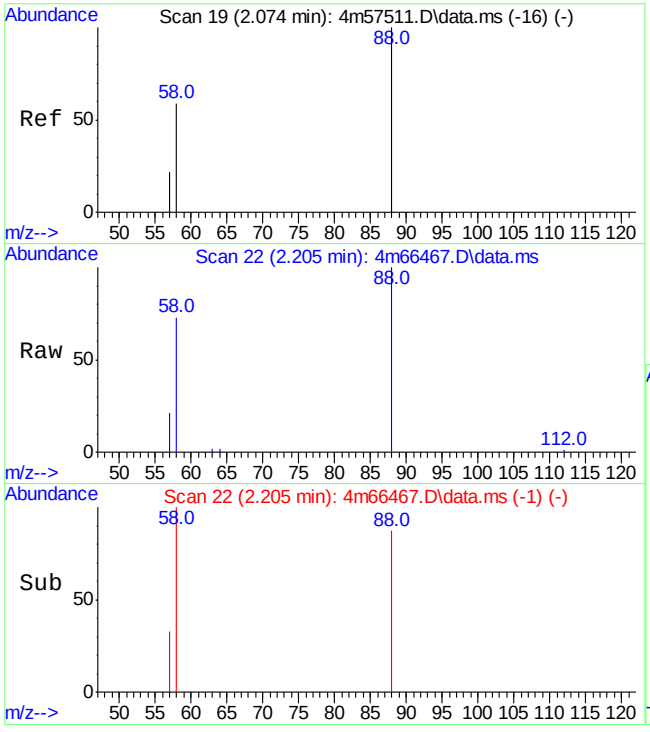
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66467.D
Acq On : 29 Jun 2016 3:17 pm
Operator : linseyk
Sample : jc22206-4
Misc : op94859a,e4m2989,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 29 15:44:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

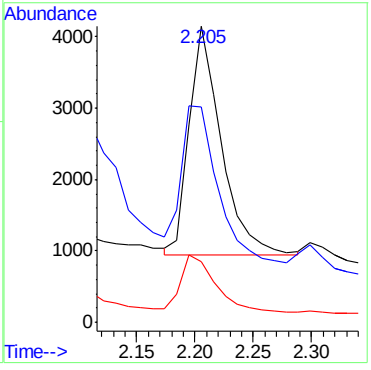




#36
1,4-Dioxane
Concen: 2.86 ppm m
RT: 2.205 min Scan# 22
Delta R.T. -0.021 min
Lab File: 4m66467.D
Acq: 29 Jun 2016 3:17 pm

Tgt Ion: 88 Resp: 6074

Ion	Ratio	Lower	Upper
88	100		
58	72.7	0.0	28.3#
57	20.6	0.0	25.6



Manual Integration Approval Summary

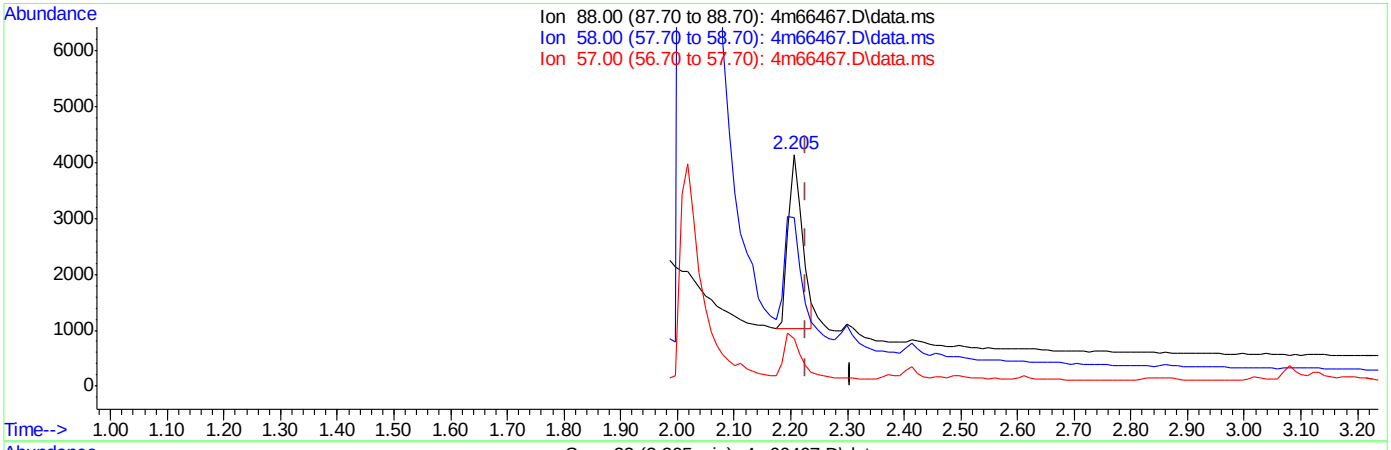
Sample Number:	JC22206-4	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66467.D	**Analyst approved:**	06/29/16 15:45 Linsey Kirschmann
Injection Time:	06/29/16 15:17	**Supervisor approved:**	07/01/16 11:22 Nina Pandya

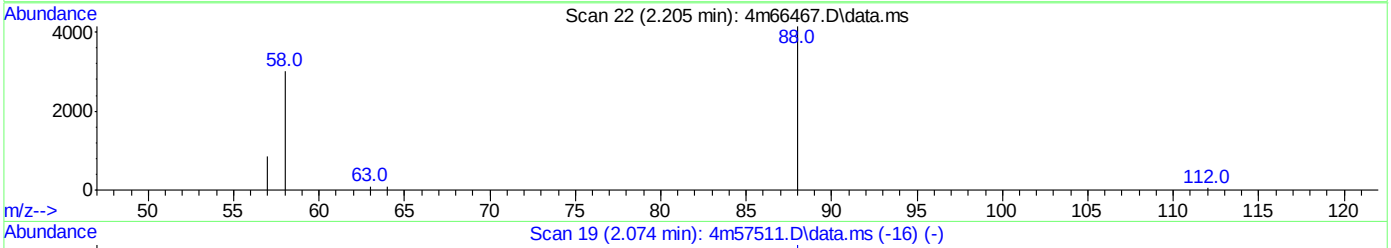
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.21	Poor instrument integration

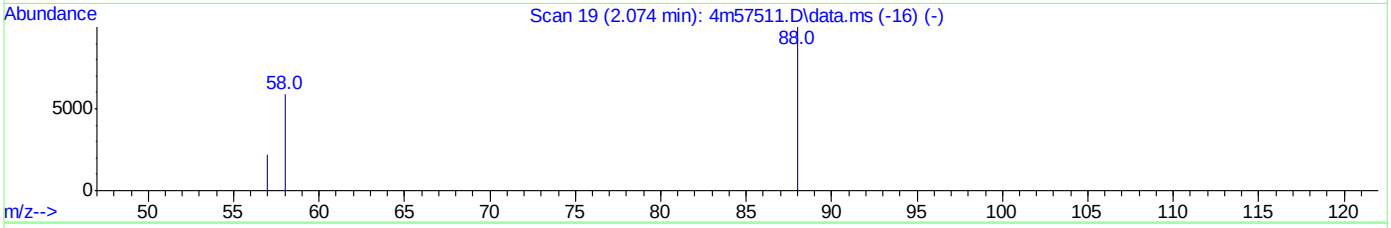
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66467.D
Acq On : 29 Jun 2016 3:17 pm
Operator : linseyk
Sample : jc22206-4
Misc : op94859a,e4m2989,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 29 15:42:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66467.D\data.ms

(36) 1,4-Dioxane (t)

2.205min (-0.021) 2.53ppm

response 5406

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	63.96#
57.00	5.60	22.01
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66525.D
Acq On : 1 Jul 2016 5:46 am
Operator : juliusj
Sample : jc22206-4
Misc : op95225a,e4m2991,950
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 09:31:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration

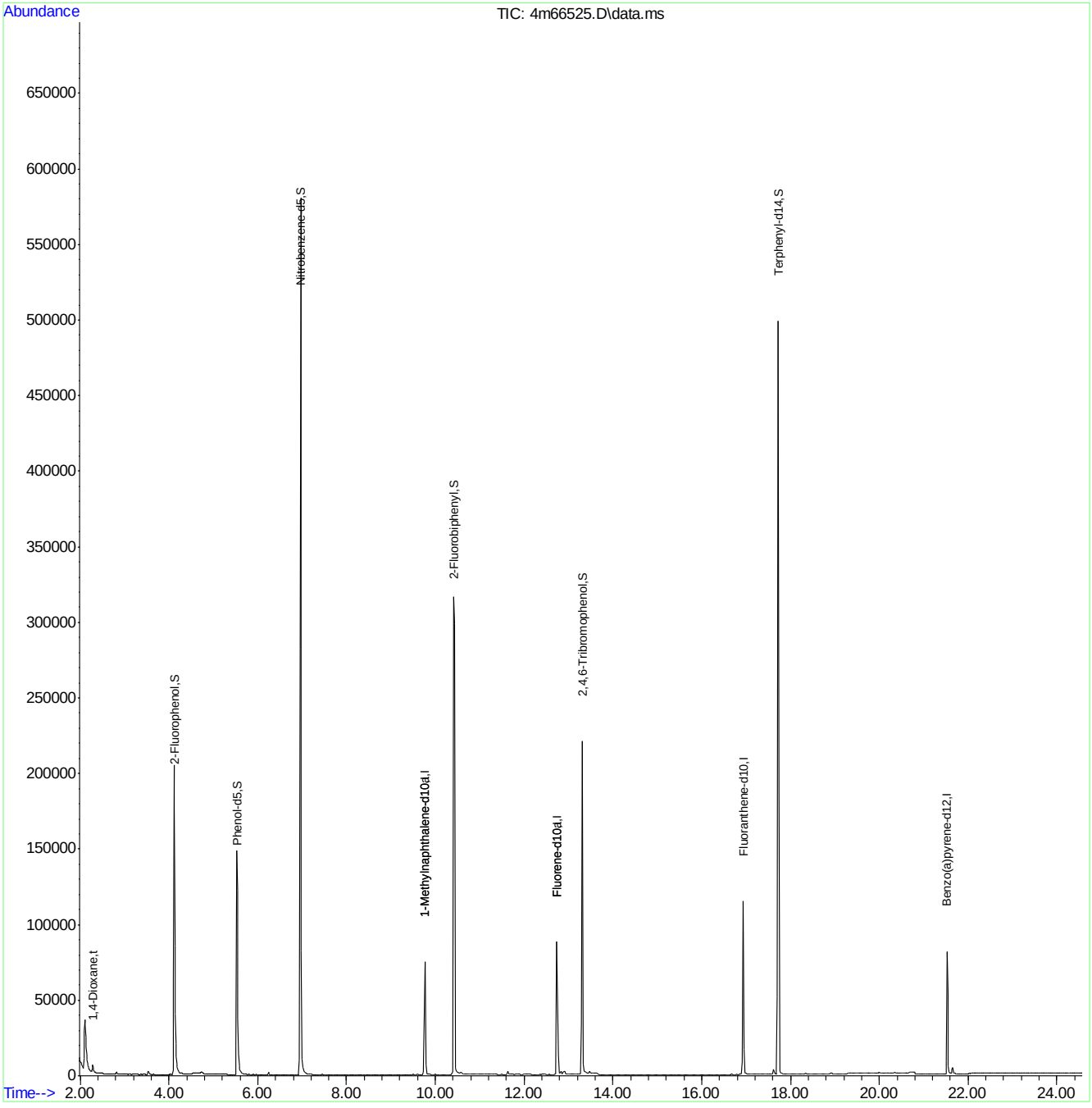
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.762	152	47119	4.00	ppm	-0.02
12) Fluorene-d10	12.740	176	71409	4.00	ppm	-0.02
22) Fluoranthene-d10	16.934	212	123358	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.529	264	100551	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.762	152	47119	4.00	ppm	#-0.02
38) Fluorene-d10a	12.740	176	71409	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	185117	24.66	ppm	0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 49.32%			
3) Phenol-d5	5.539	99	207291	17.51	ppm	0.05
Spiked Amount 50.000			Recovery = 35.02%			
6) Nitrobenzene-d5	6.968	82	434542	41.26	ppm	0.00
Spiked Amount 50.000			Recovery = 82.52%			
11) 2-Fluorobiphenyl	10.431	172	640893	33.79	ppm	0.00
Spiked Amount 50.000			Recovery = 67.58%			
17) 2,4,6-Tribromophenol	13.313	330	172588	51.86	ppm	0.00
Spiked Amount 50.000			Recovery = 103.72%			
25) Terphenyl-d14	17.725	244	624402	35.84	ppm	-0.02
Spiked Amount 50.000			Recovery = 71.68%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.278	88	4602	1.48	ppm #	1

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

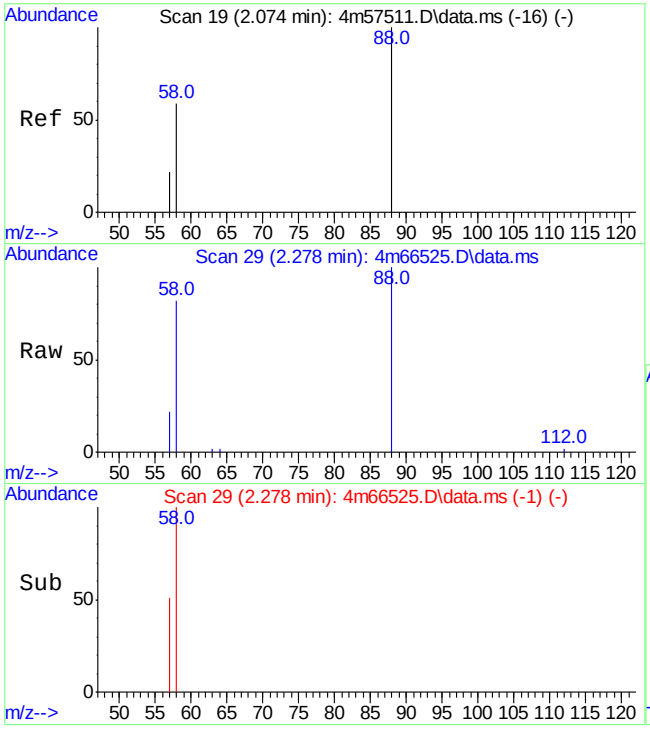
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66525.D
Acq On : 1 Jul 2016 5:46 am
Operator : juliusj
Sample : jc22206-4
Misc : op95225a,e4m2991,950
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 01 09:31:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration



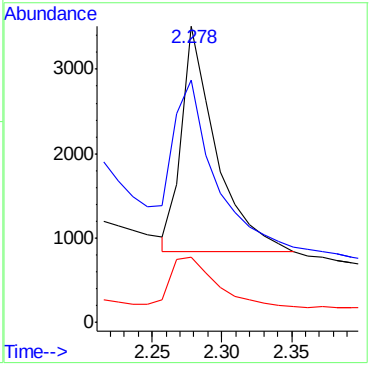
SGS ACCUTEST JC22206



#36
1,4-Dioxane
Concen: 1.48 ppm
RT: 2.278 min Scan# 29
Delta R.T. -0.042 min
Lab File: 4m66525.D
Acq: 1 Jul 2016 5:46 am

Tgt Ion: 88 Resp: 4602

Ion	Ratio	Lower	Upper
88	100		
58	66.8	0.0	32.3#
57	21.2	0.0	25.8



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/01/16 11:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66468.D
Acq On : 29 Jun 2016 3:48 pm
Operator : linseyk
Sample : jc22206-5
Misc : op94859a,e4m2989,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 29 16:29:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

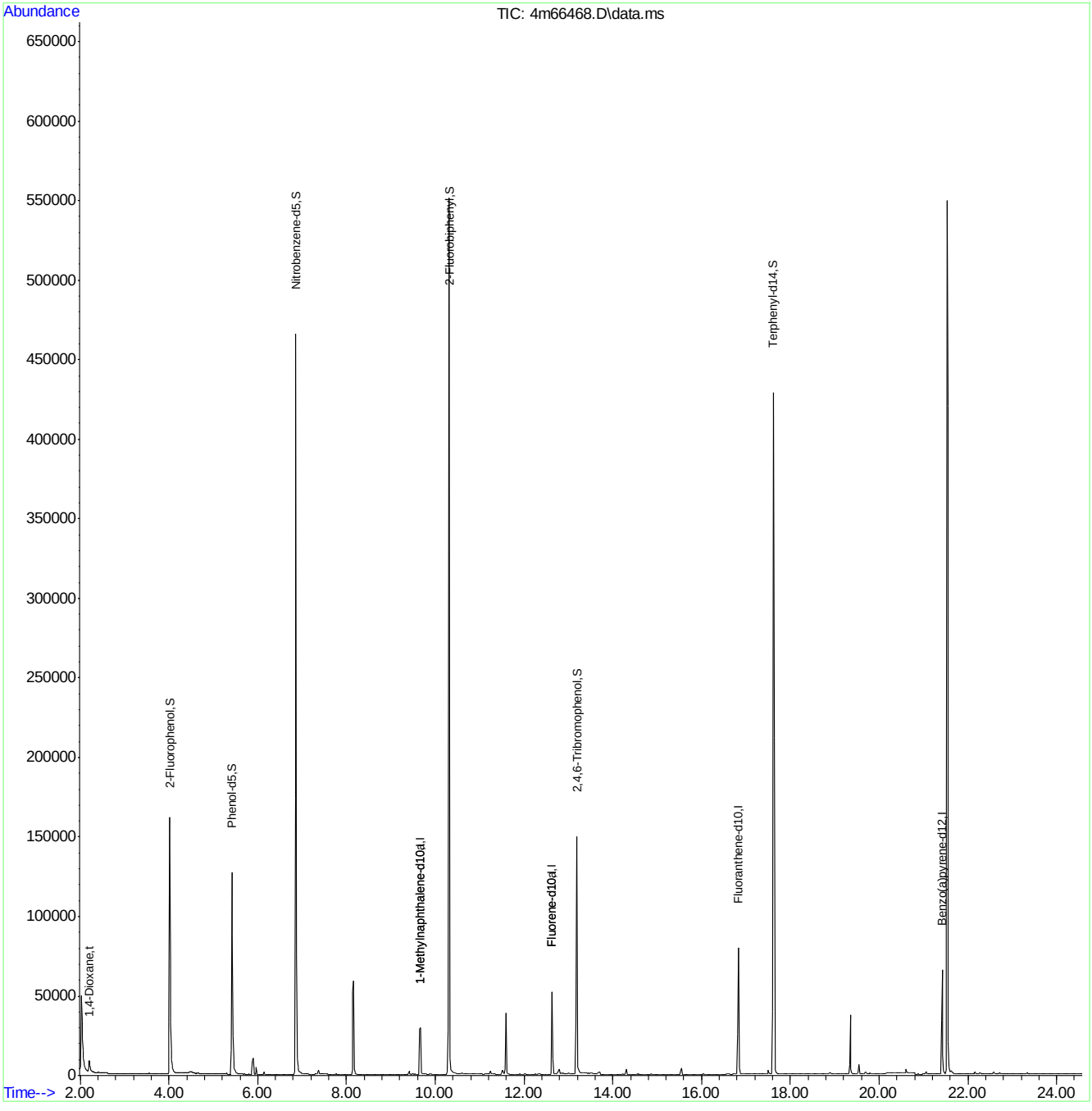
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	32667	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	41701	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	95390	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	77794	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	32667	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	41701	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	146287	28.10	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 56.20%			
3) Phenol-d5	5.415	99	161742	19.71	ppm	-0.07
Spiked Amount 50.000			Recovery = 39.42%			
6) Nitrobenzene-d5	6.860	82	329518	45.13	ppm	-0.11
Spiked Amount 50.000			Recovery = 90.26%			
11) 2-Fluorobiphenyl	10.311	172	623398	47.41	ppm	-0.12
Spiked Amount 50.000			Recovery = 94.82%			
17) 2,4,6-Tribromophenol	13.194	330	118047	60.74	ppm	-0.12
Spiked Amount 50.000			Recovery = 121.48%			
25) Terphenyl-d14	17.617	244	579523	43.02	ppm	-0.13
Spiked Amount 50.000			Recovery = 86.04%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.205	88	7284m	3.46	ppm	

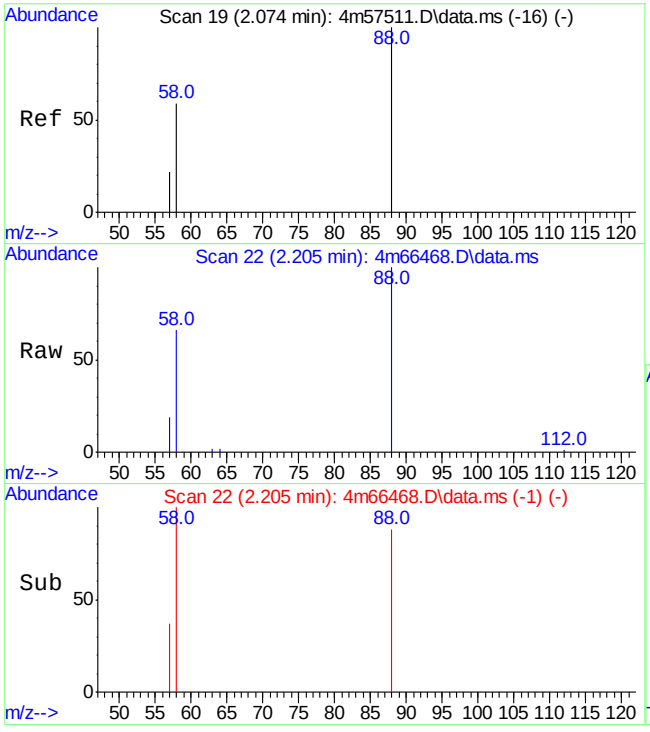
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66468.D
Acq On : 29 Jun 2016 3:48 pm
Operator : linseyk
Sample : jc22206-5
Misc : op94859a,e4m2989,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 29 16:29:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

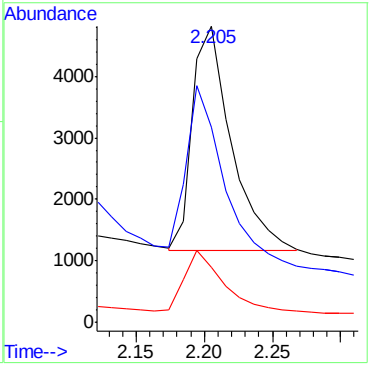




#36
1,4-Dioxane
Concen: 3.46 ppm m
RT: 2.205 min Scan# 22
Delta R.T. -0.021 min
Lab File: 4m66468.D
Acq: 29 Jun 2016 3:48 pm

Tgt Ion: 88 Resp: 7284

Ion	Ratio	Lower	Upper
88	100		
58	65.8	0.0	28.3#
57	18.7	0.0	25.6



Manual Integration Approval Summary

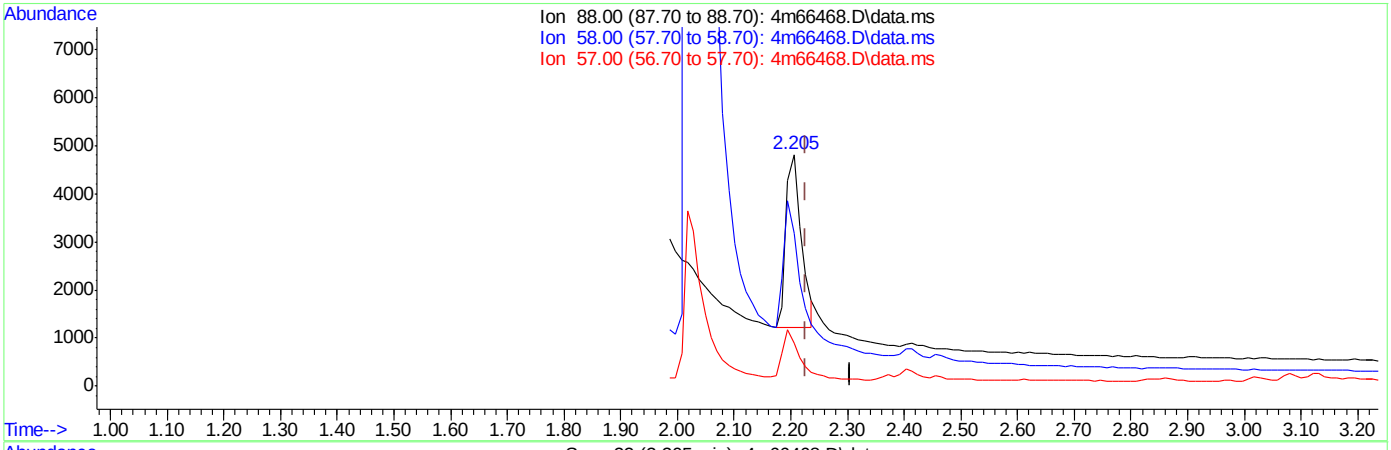
Sample Number:	JC22206-5	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66468.D	**Analyst approved:**	06/29/16 16:28 Linsey Kirschmann
Injection Time:	06/29/16 15:48	**Supervisor approved:**	07/01/16 11:22 Nina Pandya

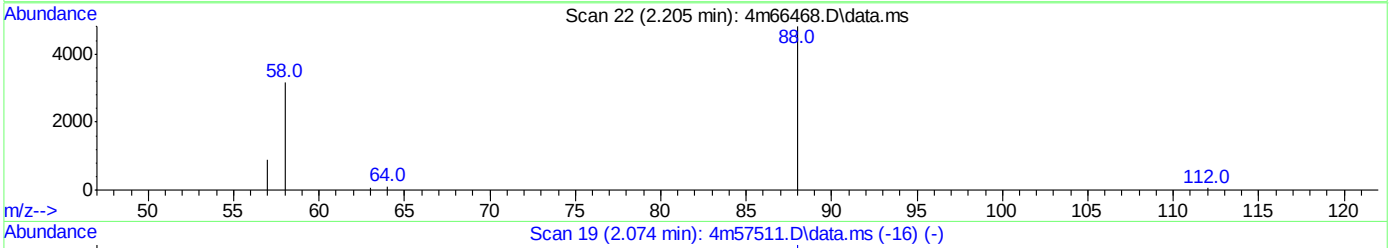
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.21	Poor instrument integration

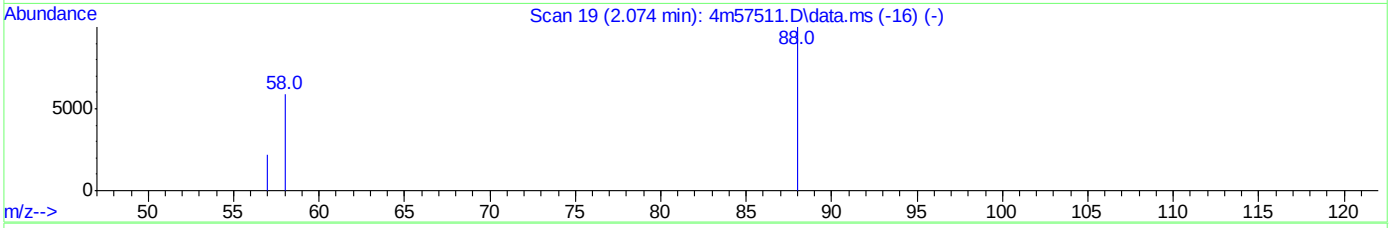
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66468.D
Acq On : 29 Jun 2016 3:48 pm
Operator : linseyk
Sample : jc22206-5
Misc : op94859a,e4m2989,1000
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 29 16:13:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66468.D\data.ms

(36) 1,4-Dioxane (t)

2.205min (-0.021) 3.22ppm

response 6781

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	57.72#
57.00	5.60	19.52
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66526.D
Acq On : 1 Jul 2016 6:16 am
Operator : juliusj
Sample : jc22206-5
Misc : op95225a,e4m2991,950
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 09:44:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.762	152	48400	4.00	ppm	-0.02
12) Fluorene-d10	12.740	176	73551	4.00	ppm	-0.02
22) Fluoranthene-d10	16.934	212	128319	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.529	264	102078	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.762	152	48400	4.00	ppm	#-0.02
38) Fluorene-d10a	12.740	176	73551	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.121	112	171987	22.30	ppm	0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 44.60%			
3) Phenol-d5	5.539	99	189805	15.61	ppm	0.05
Spiked Amount 50.000			Recovery = 31.22%			
6) Nitrobenzene-d5	6.968	82	402843	37.24	ppm	0.00
Spiked Amount 50.000			Recovery = 74.48%			
11) 2-Fluorobiphenyl	10.431	172	587734	30.17	ppm	0.00
Spiked Amount 50.000			Recovery = 60.34%			
17) 2,4,6-Tribromophenol	13.313	330	164690	48.04	ppm	0.00
Spiked Amount 50.000			Recovery = 96.08%			
25) Terphenyl-d14	17.725	244	695019	38.35	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.70%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.278	88	6646	2.11	ppm #	1

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

7.1.22

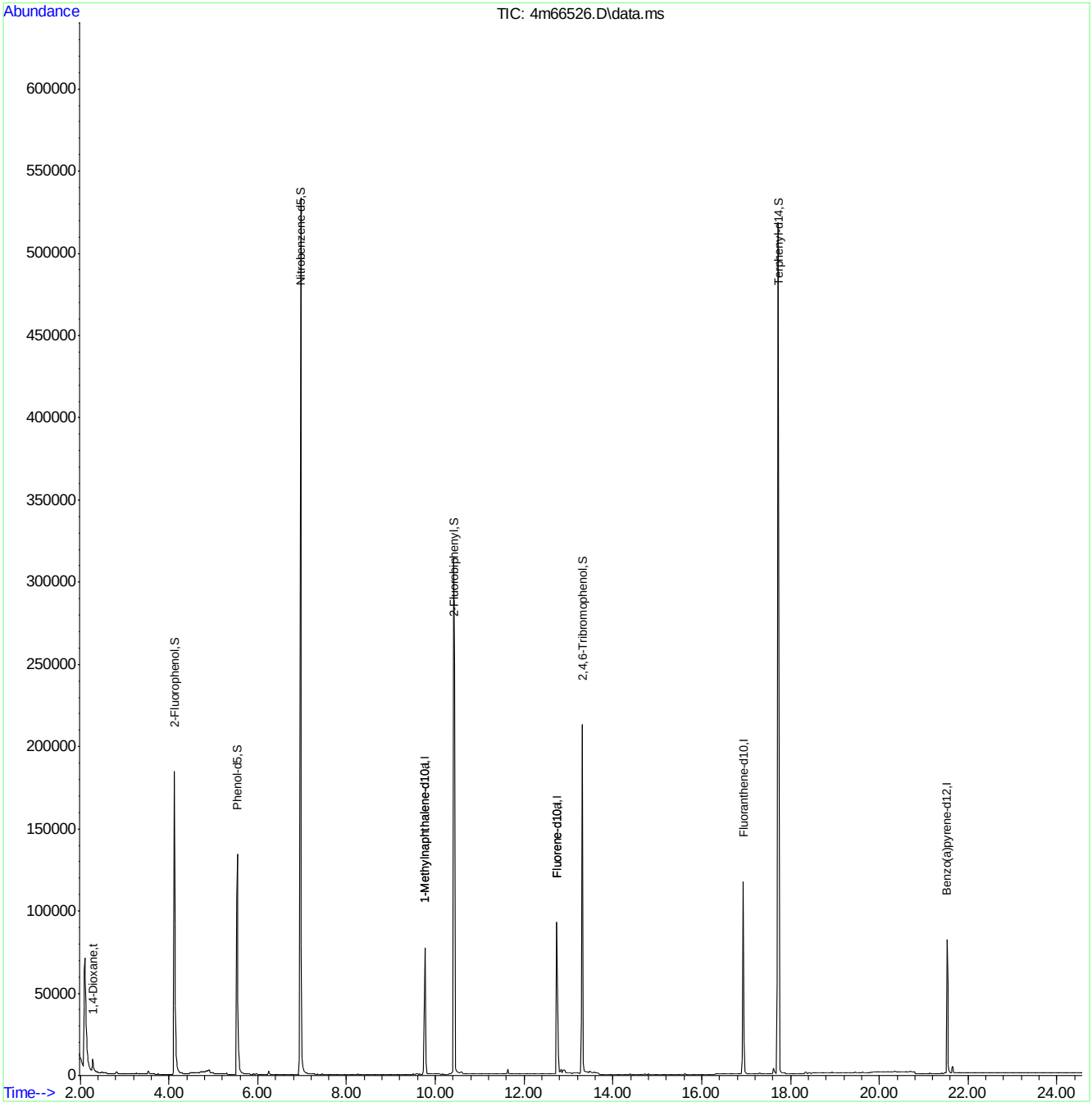
7

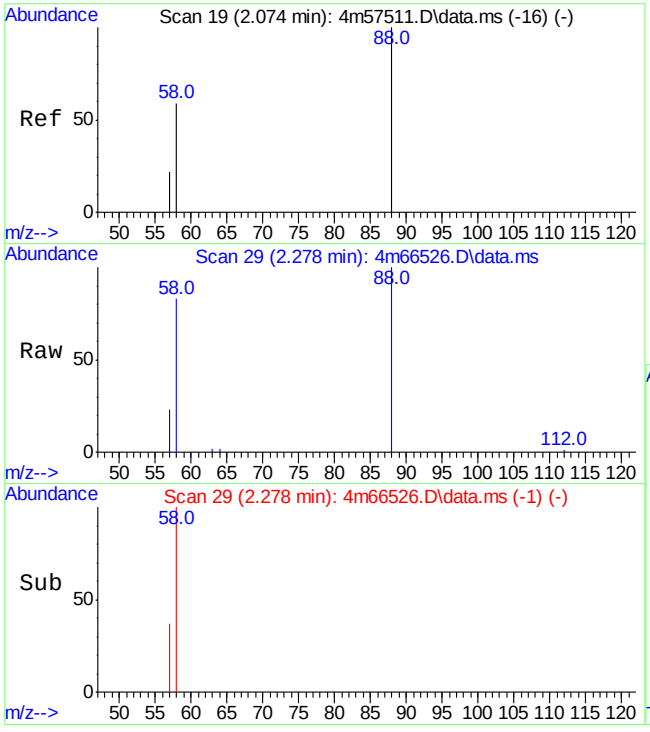
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66526.D
Acq On : 1 Jul 2016 6:16 am
Operator : juliusj
Sample : jc22206-5
Misc : op95225a,e4m2991,950
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 01 09:44:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration

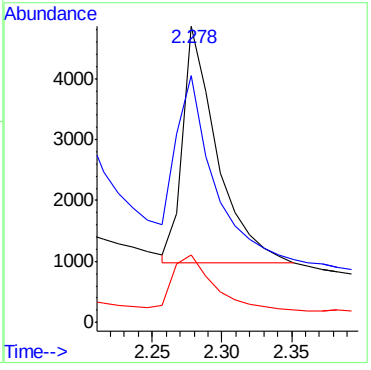




#36
1,4-Dioxane
Concen: 2.11 ppm
RT: 2.278 min Scan# 29
Delta R.T. -0.042 min
Lab File: 4m66526.D
Acq: 1 Jul 2016 6:16 am

Tgt Ion: 88 Resp: 6646

Ion	Ratio	Lower	Upper
88	100		
58	71.4	0.0	32.3#
57	22.6	0.0	25.8



7.1.22

7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66469.D
Acq On : 29 Jun 2016 4:19 pm
Operator : linseyk
Sample : jc22206-6
Misc : op94859a,e4m2989,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 30 08:57:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	45094	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	58008	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	135596	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	91305	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	45094	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	58008	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	216127	30.08	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 60.16%#			
3) Phenol-d5	5.428	99	236024	20.83	ppm	-0.06
Spiked Amount 50.000			Recovery = 41.66%			
6) Nitrobenzene-d5	6.860	82	435260	43.18	ppm	-0.11
Spiked Amount 50.000			Recovery = 86.36%			
11) 2-Fluorobiphenyl	10.311	172	819100	45.13	ppm	-0.12
Spiked Amount 50.000			Recovery = 90.26%			
17) 2,4,6-Tribromophenol	13.194	330	180420	66.73	ppm	-0.12
Spiked Amount 50.000			Recovery = 133.46%			
25) Terphenyl-d14	17.636	244	924365	48.27	ppm	-0.11
Spiked Amount 50.000			Recovery = 96.54%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.205	88	86591	27.32	ppm	# 4

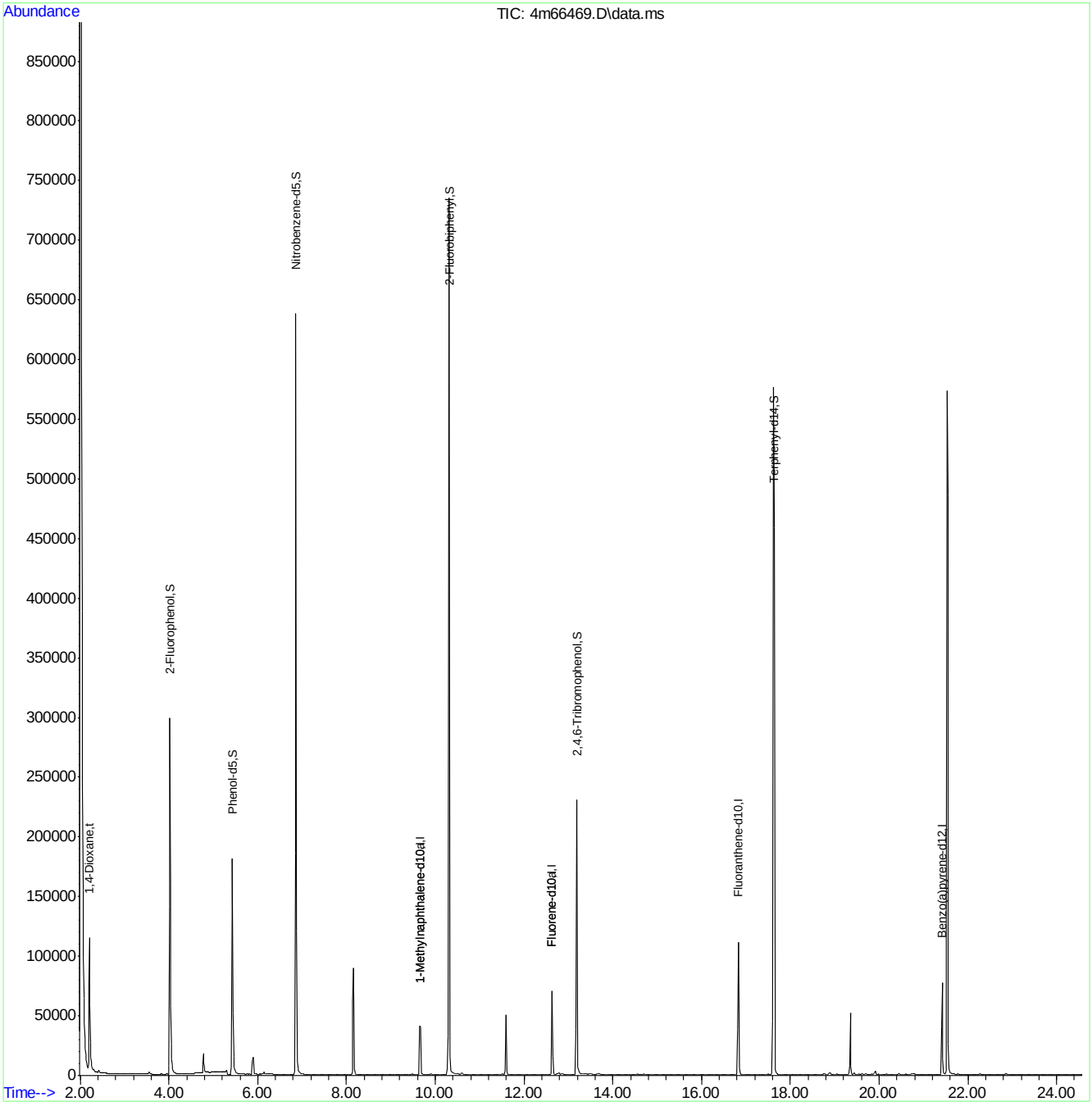
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

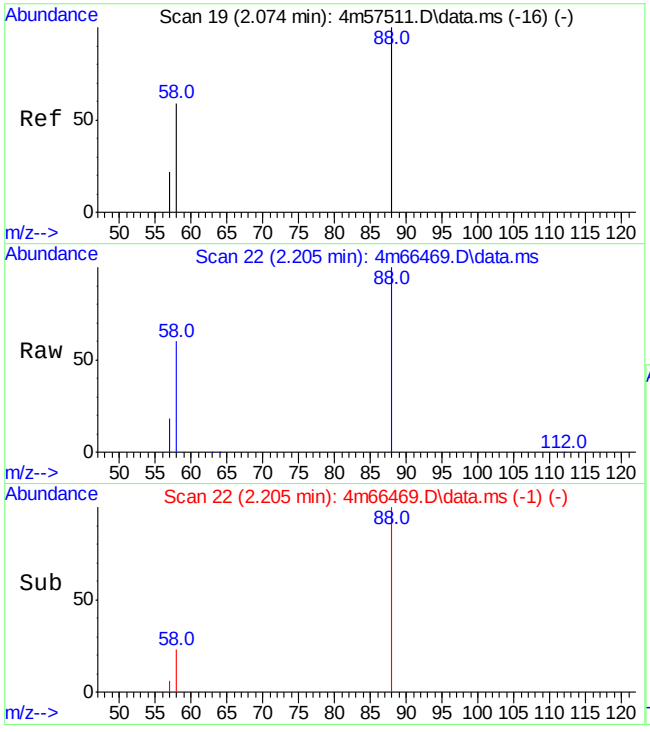
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66469.D
Acq On : 29 Jun 2016 4:19 pm
Operator : linseyk
Sample : jc22206-6
Misc : op94859a,e4m2989,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 30 08:57:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration



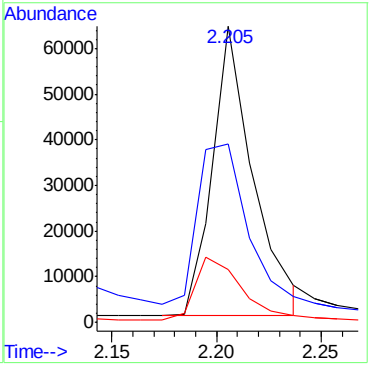
SGS ACCUTEST JC22206



#36
1,4-Dioxane
Concen: 27.32 ppm
RT: 2.205 min Scan# 22
Delta R.T. -0.021 min
Lab File: 4m66469.D
Acq: 29 Jun 2016 4:19 pm

Tgt Ion: 88 Resp: 86591

Ion	Ratio	Lower	Upper
88	100		
58	56.8	0.0	28.3#
57	17.5	0.0	25.6



7.1.23

7

SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/30/16 12:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66470.D
Acq On : 29 Jun 2016 4:50 pm
Operator : linseyk
Sample : jc22206-7
Misc : op94859a,e4m2989,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 30 08:57:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

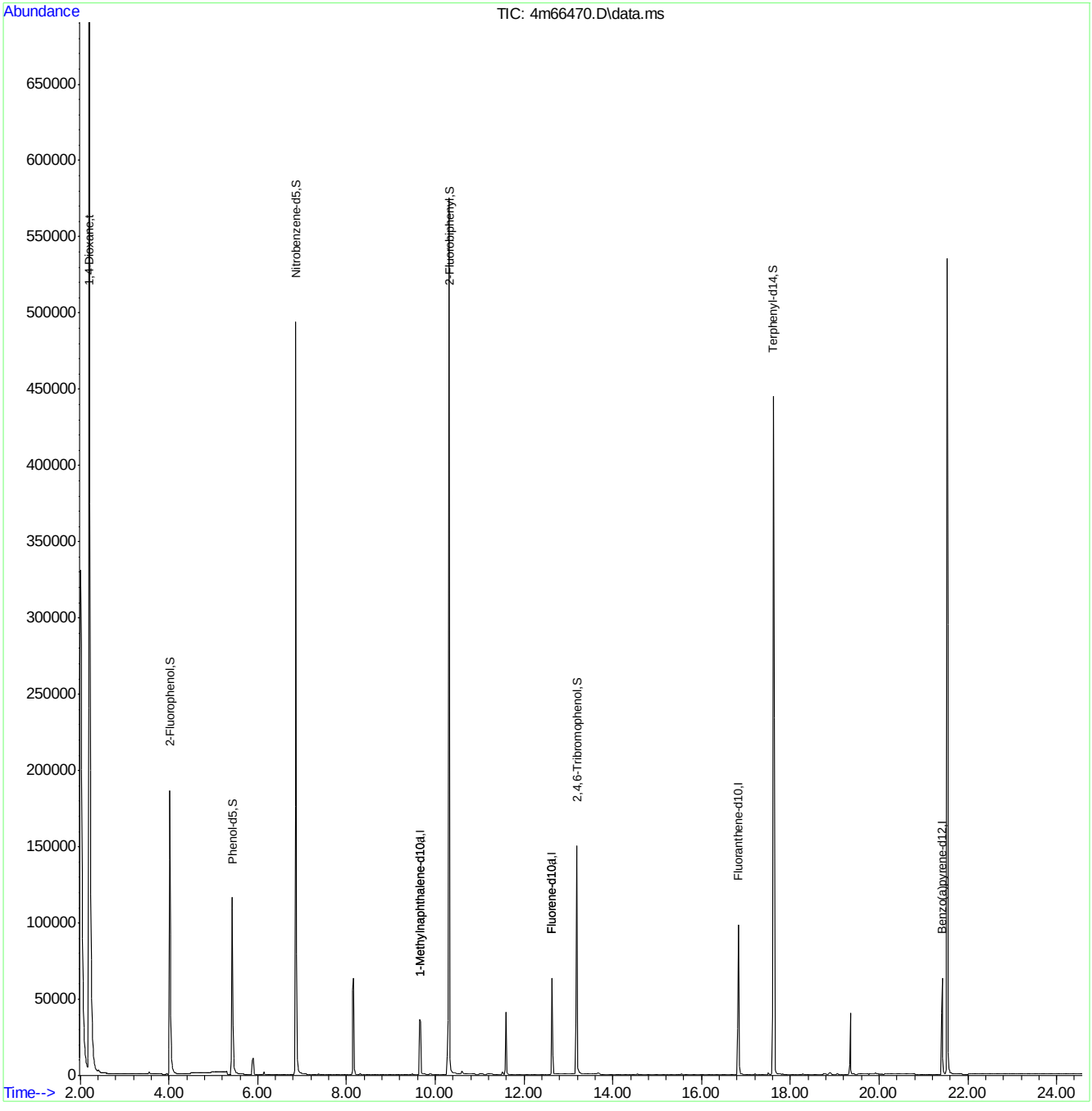
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	39517	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	51395	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	117092	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	79897	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	39517	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	51395	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	156588	24.87	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 49.74%			
3) Phenol-d5	5.428	99	171562	17.28	ppm	-0.06
Spiked Amount 50.000			Recovery = 34.56%			
6) Nitrobenzene-d5	6.860	82	345892	39.16	ppm	-0.11
Spiked Amount 50.000			Recovery = 78.32%			
11) 2-Fluorobiphenyl	10.311	172	657123	41.31	ppm	-0.12
Spiked Amount 50.000			Recovery = 82.62%			
17) 2,4,6-Tribromophenol	13.194	330	122129	50.99	ppm	-0.12
Spiked Amount 50.000			Recovery = 101.98%			
25) Terphenyl-d14	17.617	244	608865	36.82	ppm	-0.13
Spiked Amount 50.000			Recovery = 73.64%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.205	88	855858m	182.55	ppm	

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

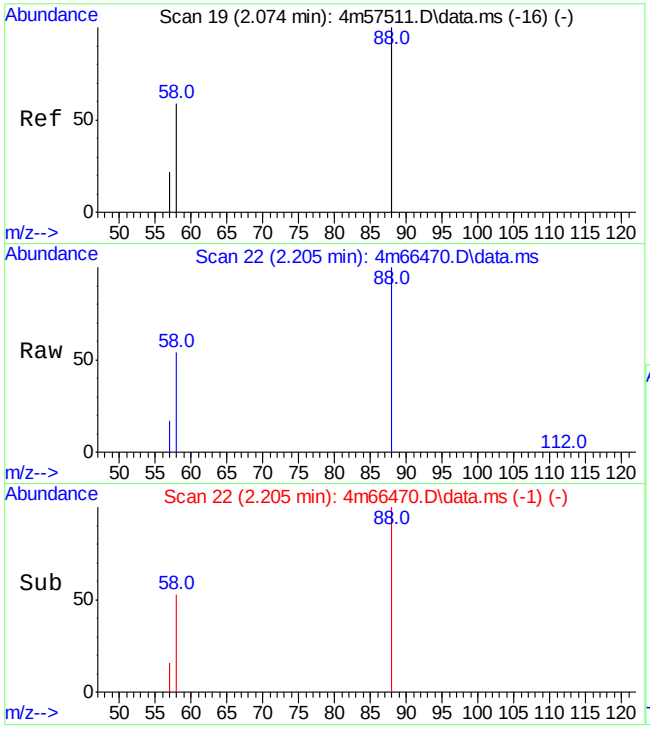
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66470.D
Acq On : 29 Jun 2016 4:50 pm
Operator : linseyk
Sample : jc22206-7
Misc : op94859a,e4m2989,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 30 08:57:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration



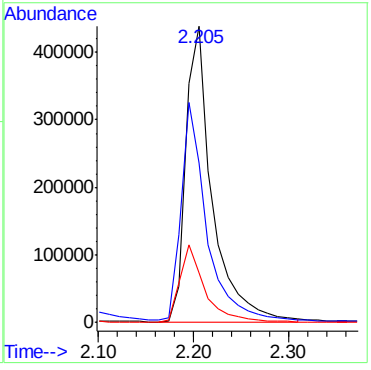
M4M2974SIM.M Thu Jun 30 08:58:02 2016 MANAGER



#36
1,4-Dioxane
Concen: 182.55 ppm m
RT: 2.205 min Scan# 22
Delta R.T. -0.021 min
Lab File: 4m66470.D
Acq: 29 Jun 2016 4:50 pm

Tgt Ion: 88 Resp: 855858

Ion	Ratio	Lower	Upper
88	100		
58	53.8	0.0	28.3#
57	16.6	0.0	25.6



Manual Integration Approval Summary

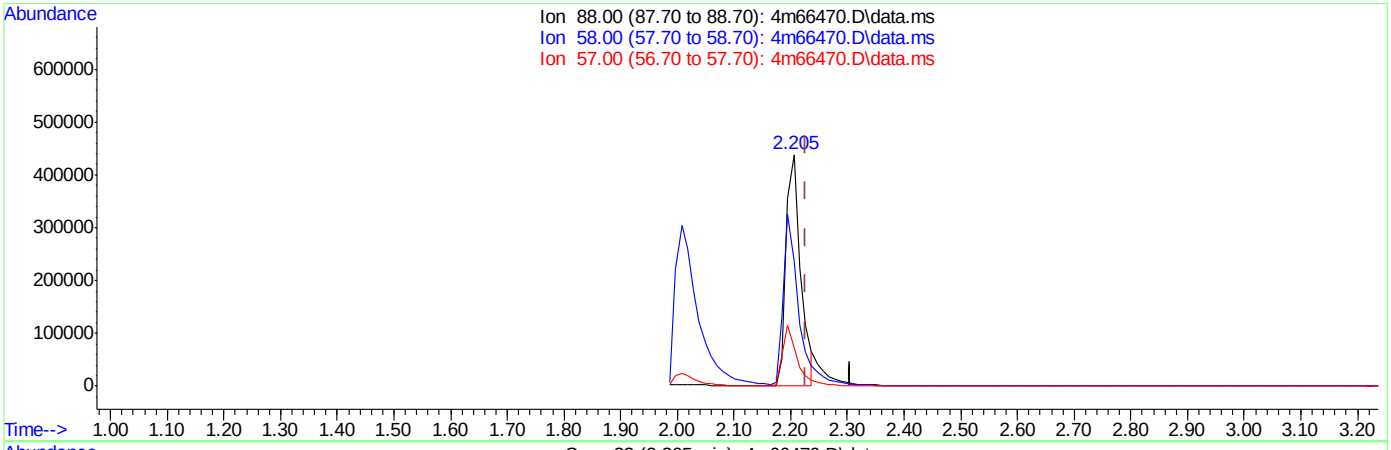
Sample Number:	JC22206-7	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66470.D	**Analyst approved:**	06/30/16 09:00 Linsey Kirschmann
Injection Time:	06/29/16 16:50	**Supervisor approved:**	06/30/16 12:06 Nina Pandya

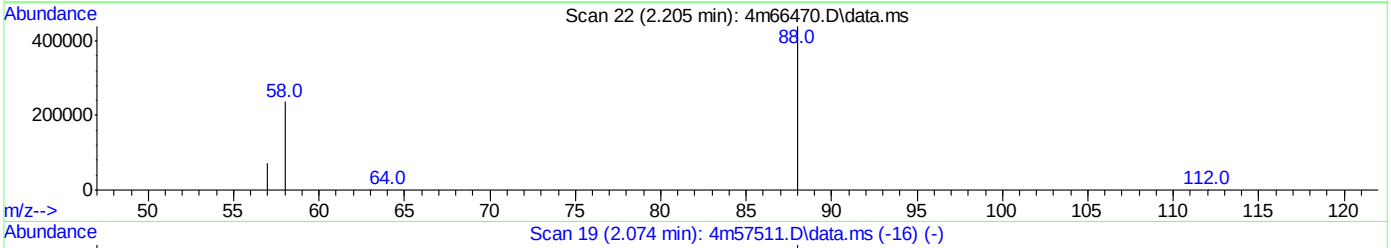
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.21	Poor instrument integration

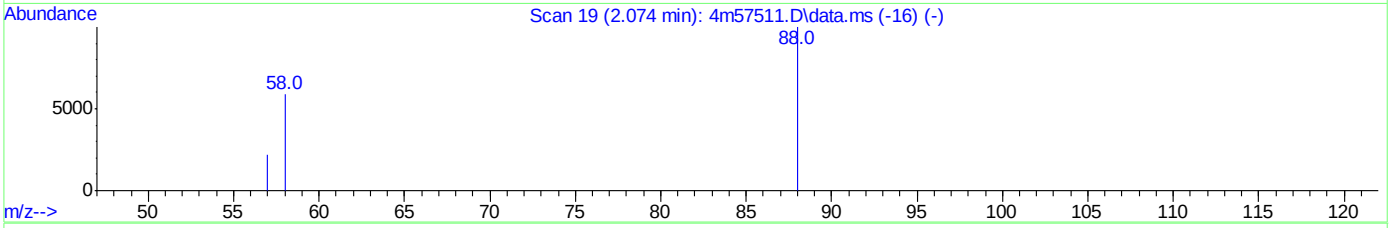
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66470.D
Acq On : 29 Jun 2016 4:50 pm
Operator : linseyk
Sample : jc22206-7
Misc : op94859a,e4m2989,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 29 17:14:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66470.D\data.ms

(36) 1,4-Dioxane (t)

2.205min (-0.021) 171.27ppm

response 779120

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	53.12#
57.00	5.60	16.42
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/30/16 12:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66487.D
Acq On : 30 Jun 2016 9:23 am
Operator : linseyk
Sample : jc22206-8
Misc : op94859a,e4m2990,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 12:30:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

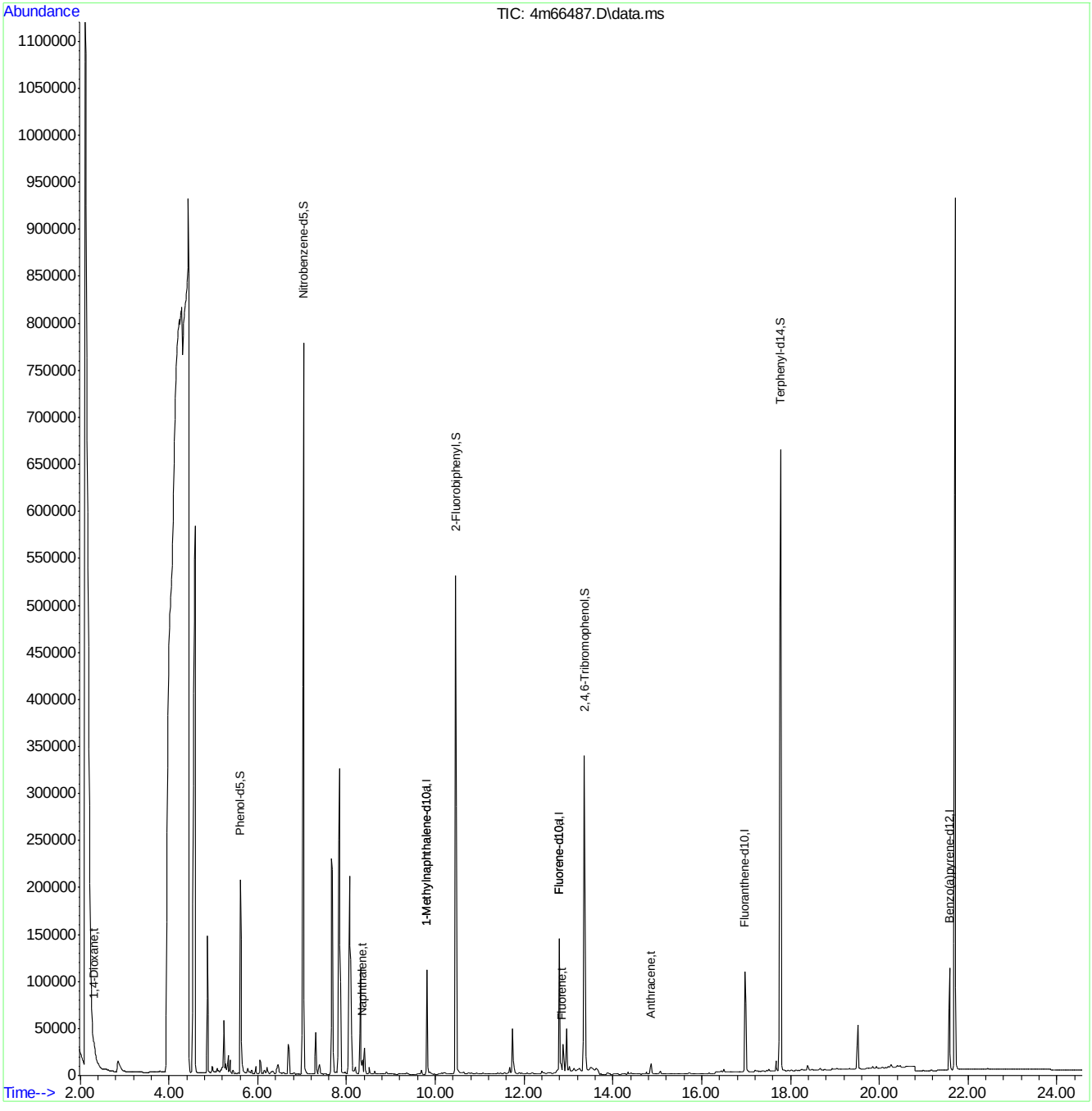
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.810	152	71297	4.00	ppm	0.02
12) Fluorene-d10	12.788	176	113297	4.00	ppm	0.02
22) Fluoranthene-d10	16.972	212	159405	4.00	ppm	0.03
28) Benzo(a)pyrene-d12	21.584	264	134108	4.00	ppm	0.06
35) 1-Methylnaphthalene-d10a	9.810	152	71297	4.00	ppm	# 0.02
38) Fluorene-d10a	12.788	176	113297	4.00	ppm	0.02
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	5.607	99	250837	14.00	ppm	0.12
Spiked Amount 50.000			Recovery	=	28.00%	
6) Nitrobenzene-d5	7.030	82	598124	37.53	ppm	0.06
Spiked Amount 50.000			Recovery	=	75.06%	
11) 2-Fluorobiphenyl	10.455	172	848011	29.55	ppm	0.02
Spiked Amount 50.000			Recovery	=	59.10%	
17) 2,4,6-Tribromophenol	13.361	330	227685	43.12	ppm	0.05
Spiked Amount 50.000			Recovery	=	86.24%	
25) Terphenyl-d14	17.781	244	1059650	47.07	ppm	0.03
Spiked Amount 50.000			Recovery	=	94.14%	
Target Compounds						Qvalue
7) Naphthalene	8.361	128	18525	0.37	ppm	98
16) Fluorene	12.836	166	4938	0.15	ppm	85
21) Anthracene	14.863	178	17453	0.42	ppm	99
36) 1,4-Dioxane	2.309	88	14606m	3.18	ppm	

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

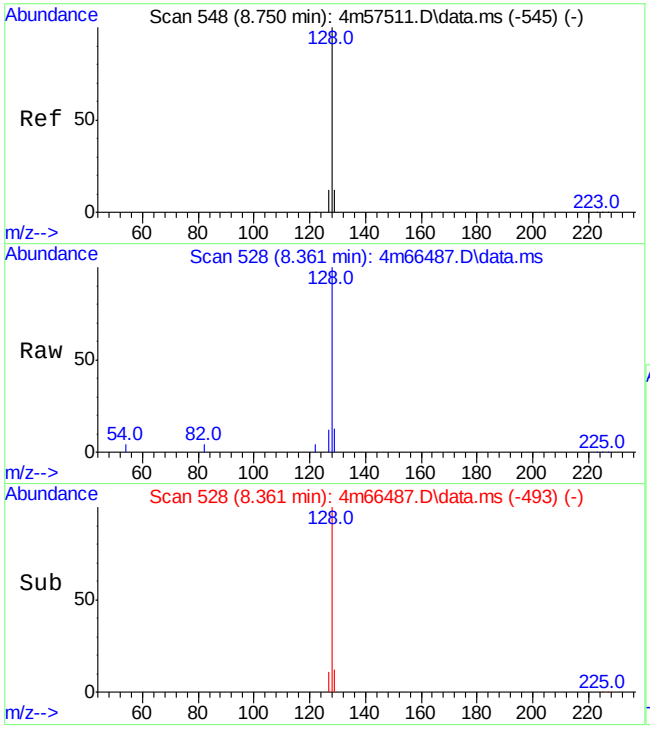
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66487.D
Acq On : 30 Jun 2016 9:23 am
Operator : linseyk
Sample : jc22206-8
Misc : op94859a,e4m2990,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 12:30:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



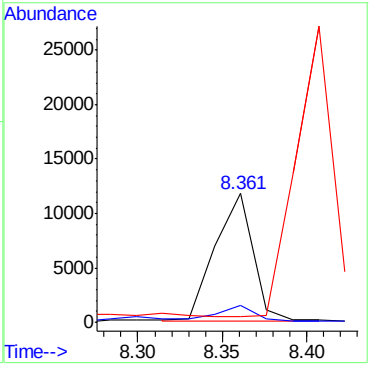
M4M2974SIM.M Thu Jun 30 12:30:35 2016 MANAGER

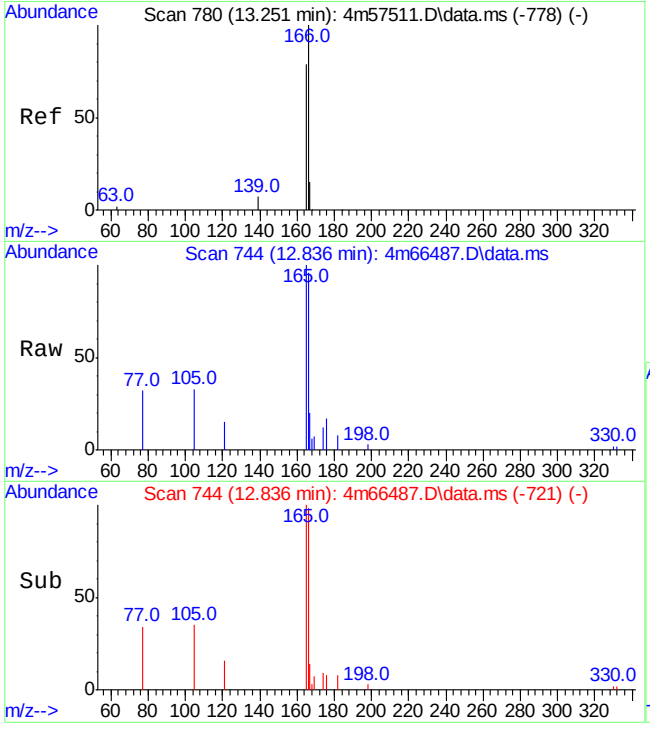


#7
Naphthalene
Concen: 0.37 ppm
RT: 8.361 min Scan# 528
Delta R.T. 0.046 min
Lab File: 4m66487.D
Acq: 30 Jun 2016 9:23 am

Tgt Ion:128 Resp: 18525

Ion	Ratio	Lower	Upper
128	100		
129	11.2	0.0	40.3
122	0.0	0.0	30.2

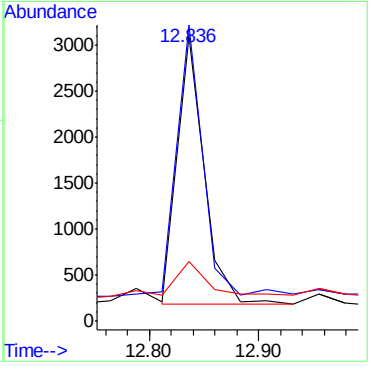


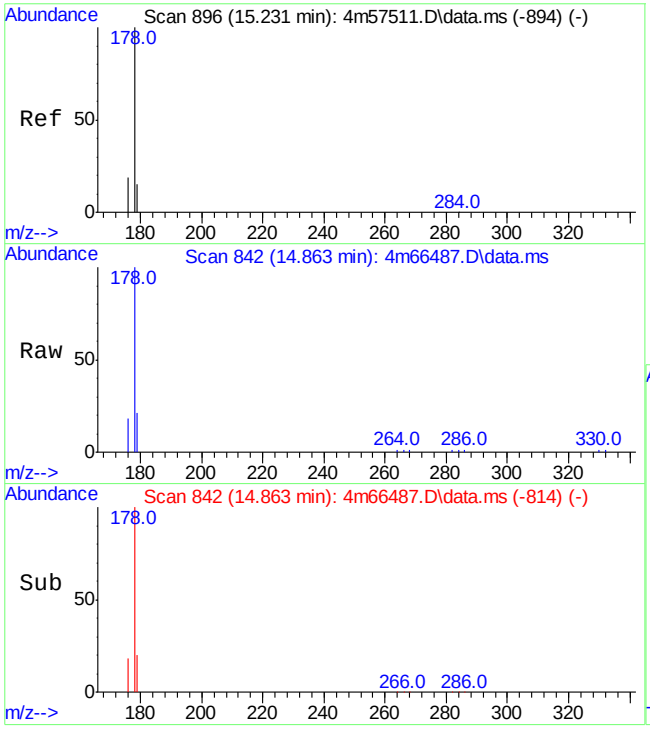


#16
Fluorene
Concen: 0.15 ppm
RT: 12.836 min Scan# 744
Delta R.T. 0.024 min
Lab File: 4m66487.D
Acq: 30 Jun 2016 9:23 am

Tgt Ion:166 Resp: 4938

Ion	Ratio	Lower	Upper
166	100		
165	100.6	55.6	115.6
167	12.3	0.0	43.6

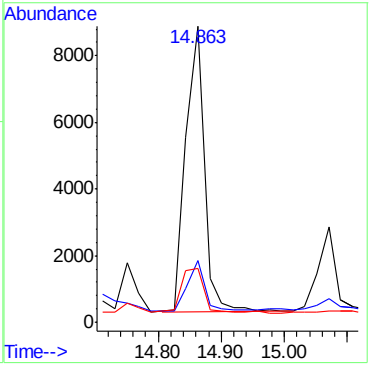


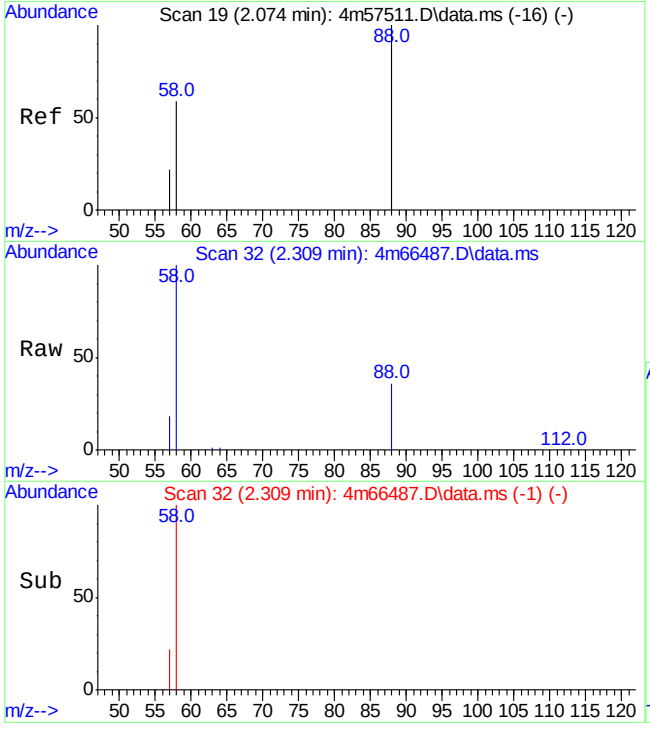


#21
Anthracene
Concen: 0.42 ppm
RT: 14.863 min Scan# 842
Delta R.T. 0.033 min
Lab File: 4m66487.D
Acq: 30 Jun 2016 9:23 am

Tgt Ion:178 Resp: 17453

Ion	Ratio	Lower	Upper
178	100		
179	17.4	0.0	47.0
176	15.1	0.0	45.1

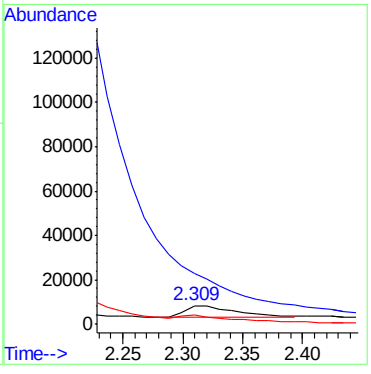




#36
1,4-Dioxane
Concen: 3.18 ppm m
RT: 2.309 min Scan# 32
Delta R.T. -0.010 min
Lab File: 4m66487.D
Acq: 30 Jun 2016 9:23 am

Tgt Ion: 88 Resp: 14606

Ion	Ratio	Lower	Upper
88	100		
58	277.5	0.0	32.3#
57	48.7	0.0	25.8#



Manual Integration Approval Summary

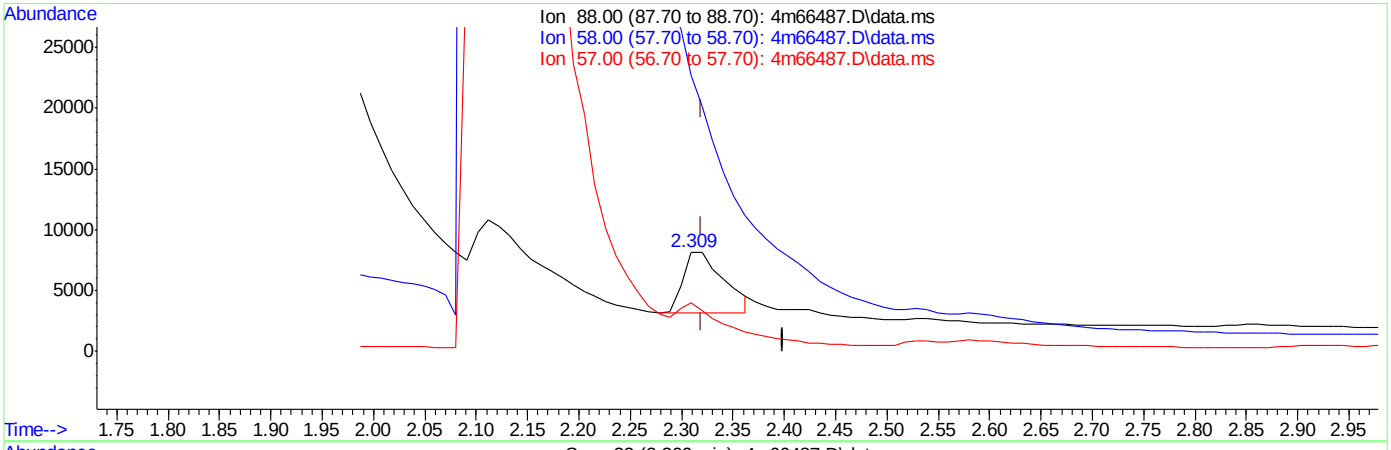
Sample Number:	JC22206-8	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66487.D	**Analyst approved:**	06/30/16 12:29 Linsey Kirschmann
Injection Time:	06/30/16 09:23	**Supervisor approved:**	06/30/16 12:35 Nina Pandya

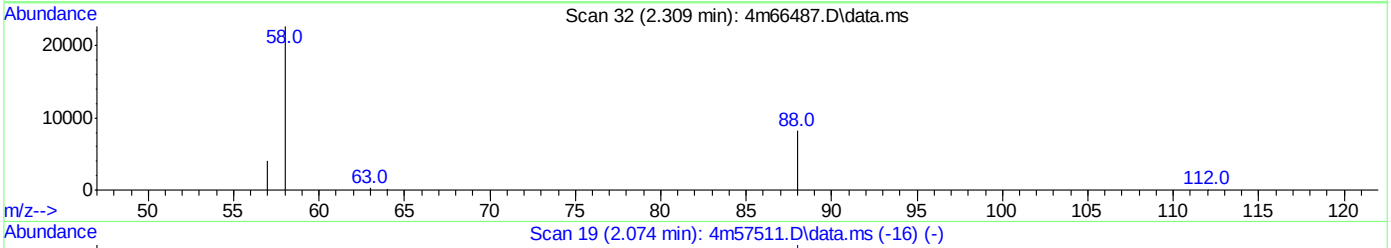
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.31	Poor instrument integration

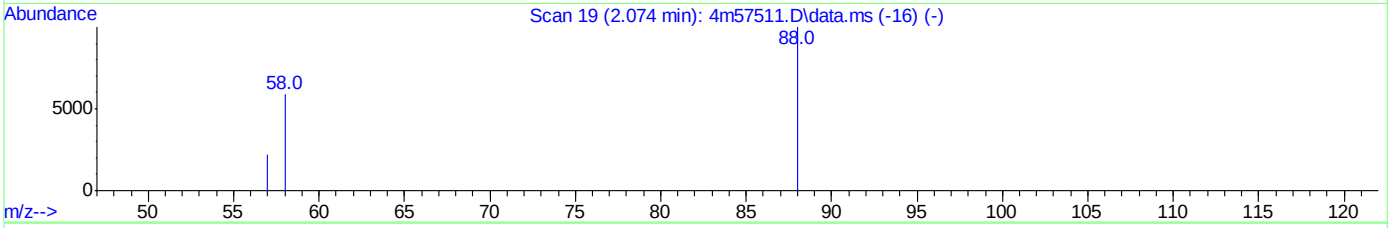
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66487.D
Acq On : 30 Jun 2016 9:23 am
Operator : linseyk
Sample : jc22206-8
Misc : op94859a,e4m2990,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 30 12:28:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration







TIC: 4m66487.D\data.ms

(36) 1,4-Dioxane (t)

2.309min (-0.010) 2.97ppm

response 13677

Ion	Exp%	Act%
88.00	100	100
58.00	12.30	0.00
57.00	5.80	37.85#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/30/16 12:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66472.D
Acq On : 29 Jun 2016 5:51 pm
Operator : linseyk
Sample : jc22206-9
Misc : op94859a,e4m2989,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 08:58:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

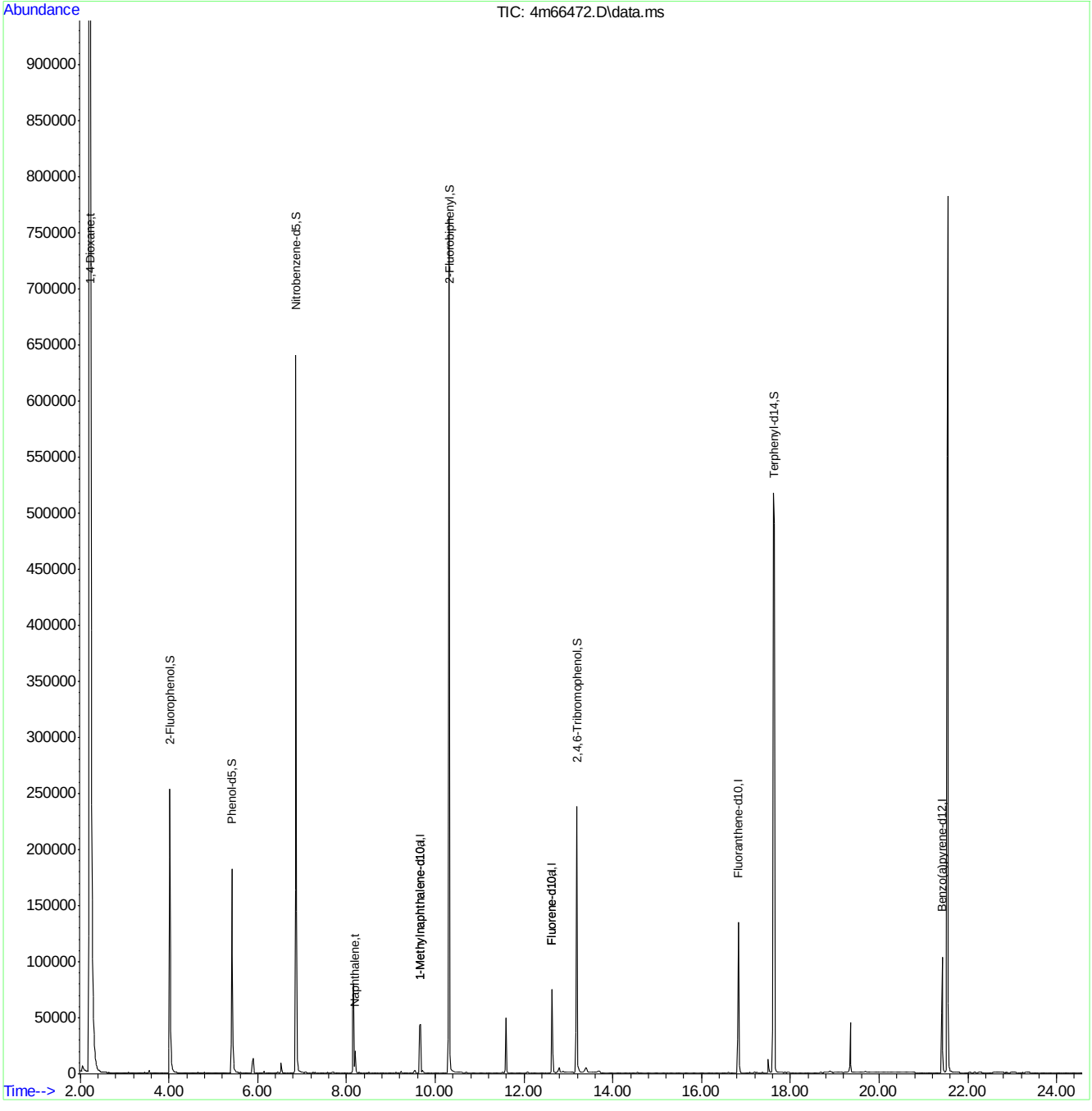
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	47634	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	62138	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	150910	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	122790	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	47634	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	62138	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	196476	25.88	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 51.76%			
3) Phenol-d5	5.415	99	209787	17.53	ppm	-0.07
Spiked Amount 50.000			Recovery = 35.06%			
6) Nitrobenzene-d5	6.860	82	436476	41.00	ppm	-0.11
Spiked Amount 50.000			Recovery = 82.00%			
11) 2-Fluorobiphenyl	10.311	172	844828	44.06	ppm	-0.12
Spiked Amount 50.000			Recovery = 88.12%			
17) 2,4,6-Tribromophenol	13.194	330	184841	63.83	ppm	-0.12
Spiked Amount 50.000			Recovery = 127.66%			
25) Terphenyl-d14	17.636	244	906755	42.55	ppm	-0.11
Spiked Amount 50.000			Recovery = 85.10%			
Target Compounds						Qvalue
7) Naphthalene	8.191	128	28136	0.85	ppm	100
36) 1,4-Dioxane	2.226	88	4301891m	447.95	ppm	

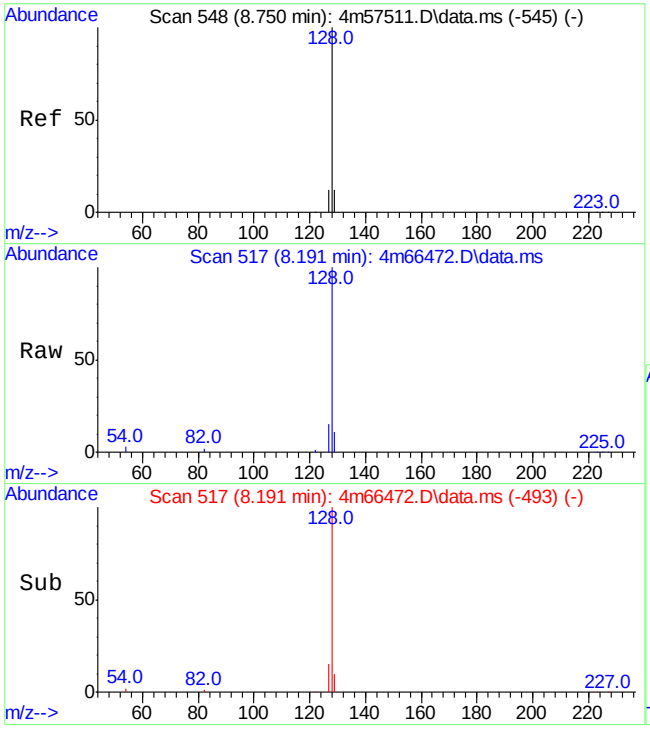
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66472.D
Acq On : 29 Jun 2016 5:51 pm
Operator : linseyk
Sample : jc22206-9
Misc : op94859a,e4m2989,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 30 08:58:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

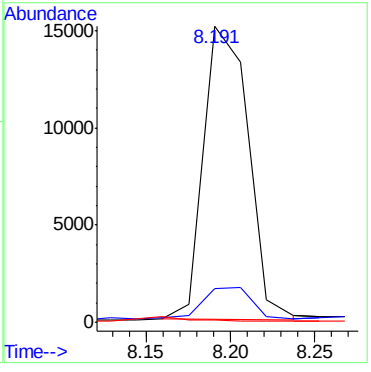


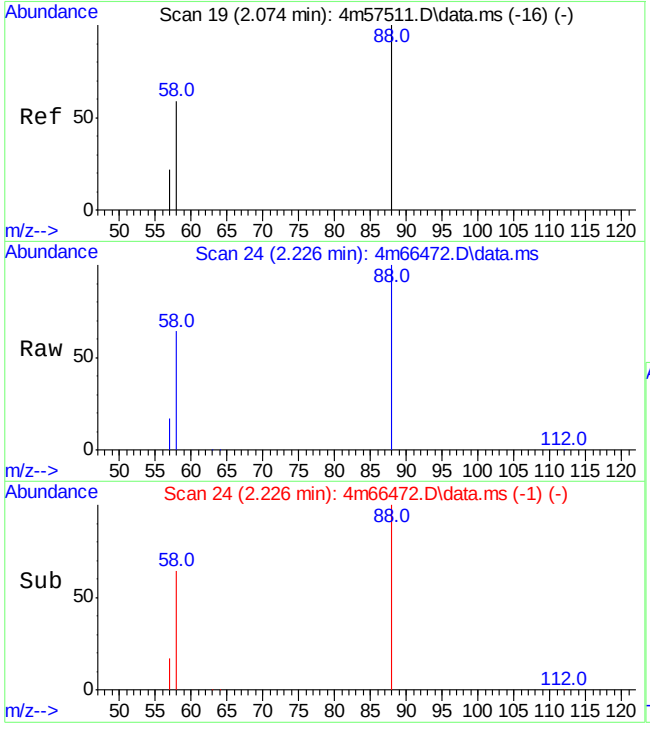


#7
Naphthalene
Concen: 0.85 ppm
RT: 8.191 min Scan# 517
Delta R.T. -0.124 min
Lab File: 4m66472.D
Acq: 29 Jun 2016 5:51 pm

Tgt Ion:128 Resp: 28136

Ion	Ratio	Lower	Upper
128	100		
129	10.1	0.0	40.3
122	0.0	0.0	30.2

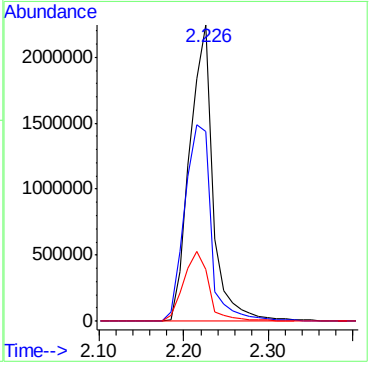




#36
1,4-Dioxane
Concen: 447.95 ppm m
RT: 2.226 min Scan# 24
Delta R.T. 0.000 min
Lab File: 4m66472.D
Acq: 29 Jun 2016 5:51 pm

Tgt Ion: 88 Resp: 4301891

Ion	Ratio	Lower	Upper
88	100		
58	63.9	0.0	28.3#
57	17.3	0.0	25.6



Manual Integration Approval Summary

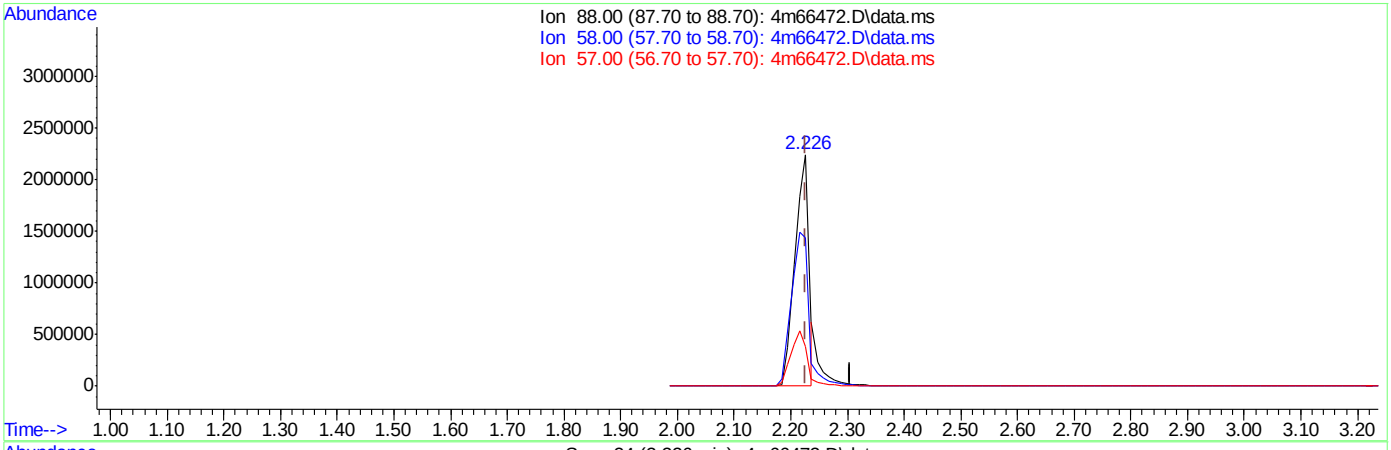
Sample Number:	JC22206-9	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66472.D	**Analyst approved:**	06/30/16 09:00 Linsey Kirschmann
Injection Time:	06/29/16 17:51	**Supervisor approved:**	06/30/16 12:06 Nina Pandya

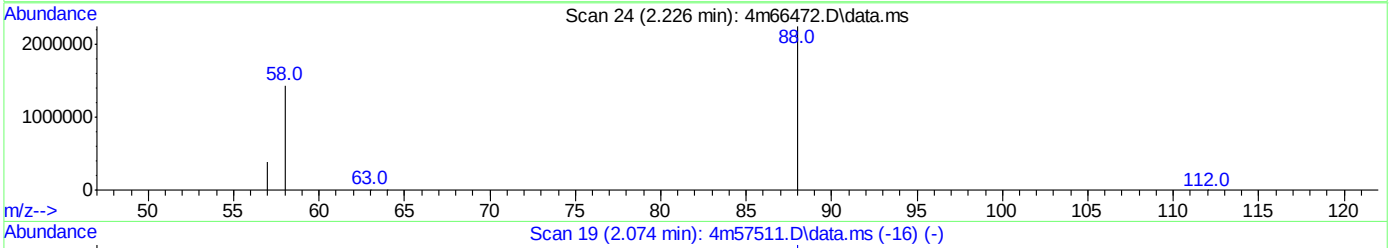
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.23	Poor instrument integration

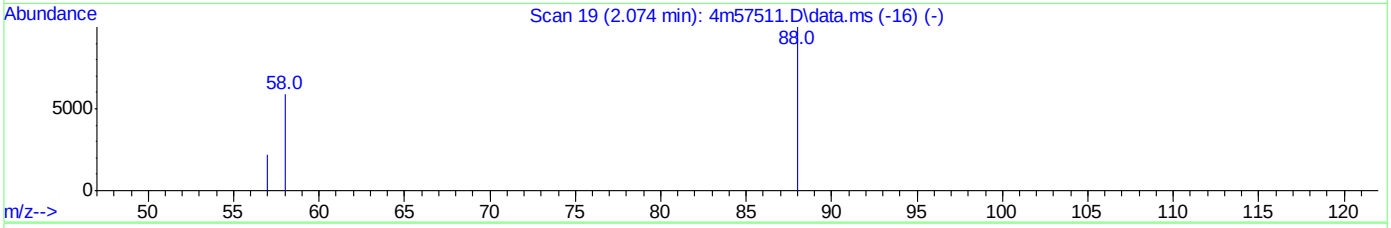
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66472.D
Acq On : 29 Jun 2016 5:51 pm
Operator : linseyk
Sample : jc22206-9
Misc : op94859a,e4m2989,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 29 18:15:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66472.D\data.ms

(36) 1,4-Dioxane (t)

2.226min (+0.000) 423.49ppm

response 3912763

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	68.46#
57.00	5.60	18.28
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/30/16 12:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66473.D
Acq On : 29 Jun 2016 6:22 pm
Operator : linseyk
Sample : jc22206-10
Misc : op94859a,e4m2989,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 08:59:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

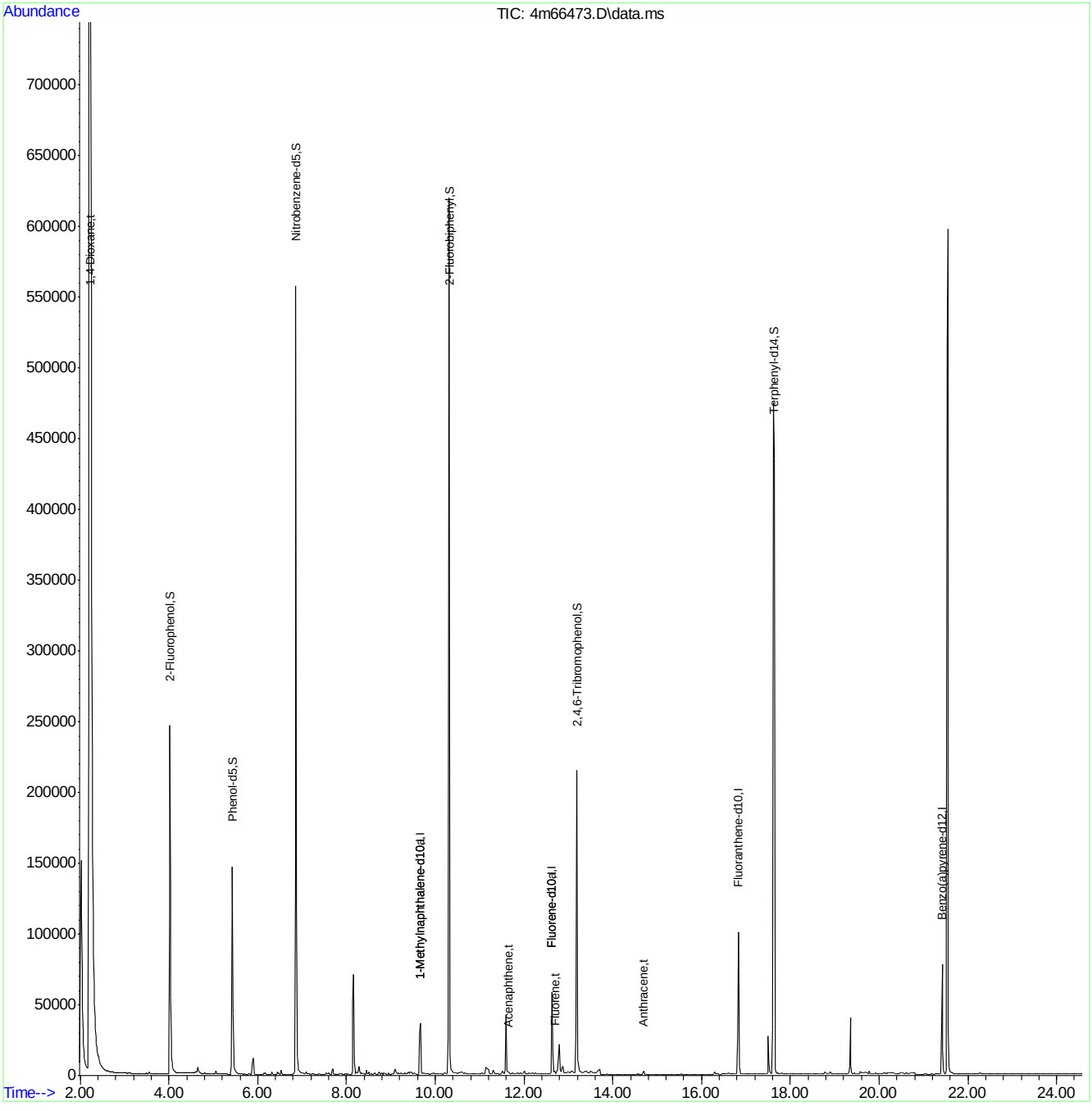
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	37296	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	48799	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	114554	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	91368	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	37296	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	48799	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	183059	30.80	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 61.60%#			
3) Phenol-d5	5.428	99	199133	21.25	ppm	-0.06
Spiked Amount 50.000			Recovery = 42.50%			
6) Nitrobenzene-d5	6.860	82	378914	45.45	ppm	-0.11
Spiked Amount 50.000			Recovery = 90.90%			
11) 2-Fluorobiphenyl	10.311	172	691812	46.08	ppm	-0.12
Spiked Amount 50.000			Recovery = 92.16%			
17) 2,4,6-Tribromophenol	13.194	330	162386	71.40	ppm	-0.12
Spiked Amount 50.000			Recovery = 142.80%			
25) Terphenyl-d14	17.636	244	812399	50.22	ppm	-0.11
Spiked Amount 50.000			Recovery = 100.44%			
Target Compounds						Qvalue
14) Acenaphthene	11.653	153	862	0.11	ppm	82
16) Fluorene	12.696	166	1640	0.11	ppm	98
21) Anthracene	14.699	178	3392	0.19	ppm	99
36) 1,4-Dioxane	2.226	88	5207383m	577.03	ppm	

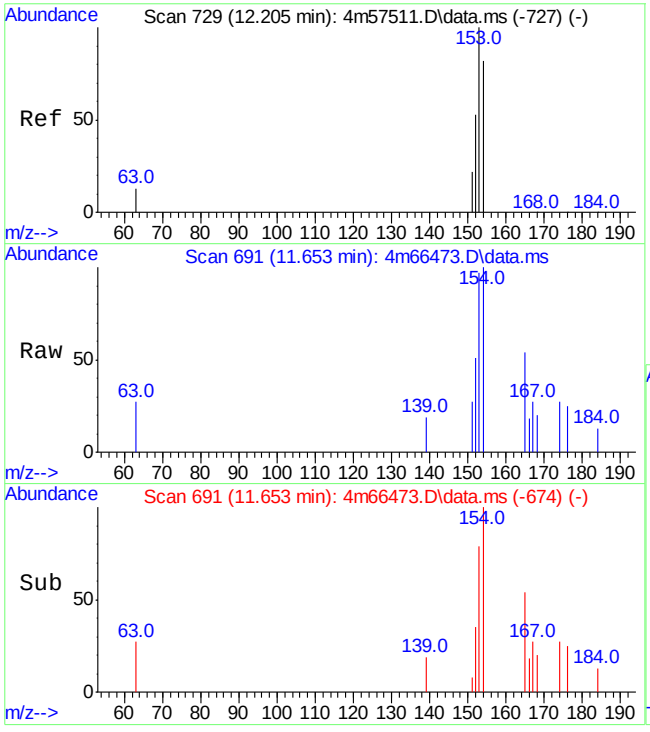
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66473.D
Acq On : 29 Jun 2016 6:22 pm
Operator : linseyk
Sample : jc22206-10
Misc : op94859a,e4m2989,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 30 08:59:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

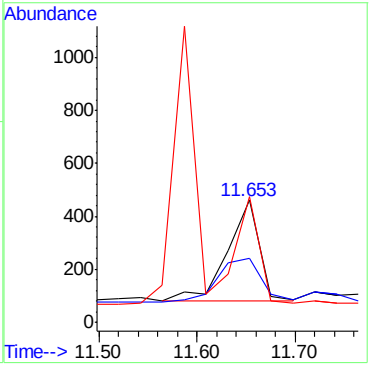


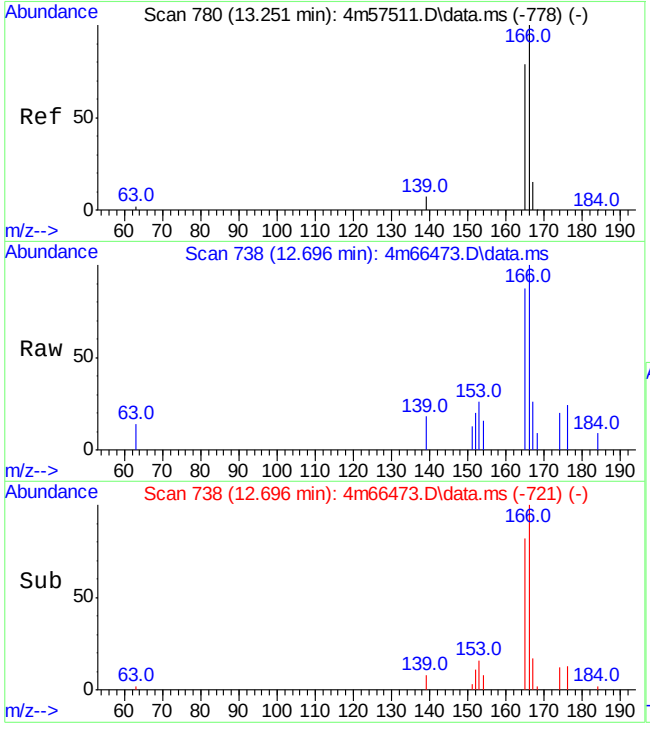


#14
Acenaphthene
Concen: 0.11 ppm
RT: 11.653 min Scan# 691
Delta R.T. -0.111 min
Lab File: 4m66473.D
Acq: 29 Jun 2016 6:22 pm

Tgt Ion:153 Resp: 862

Ion	Ratio	Lower	Upper
153	100		
152	42.5	24.6	84.6
154	97.4	50.4	110.4

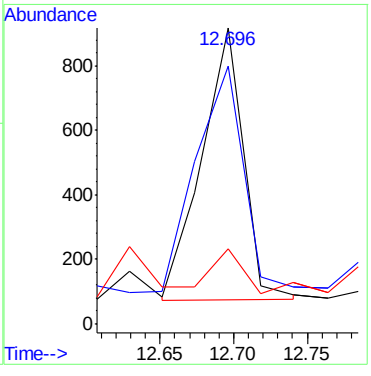


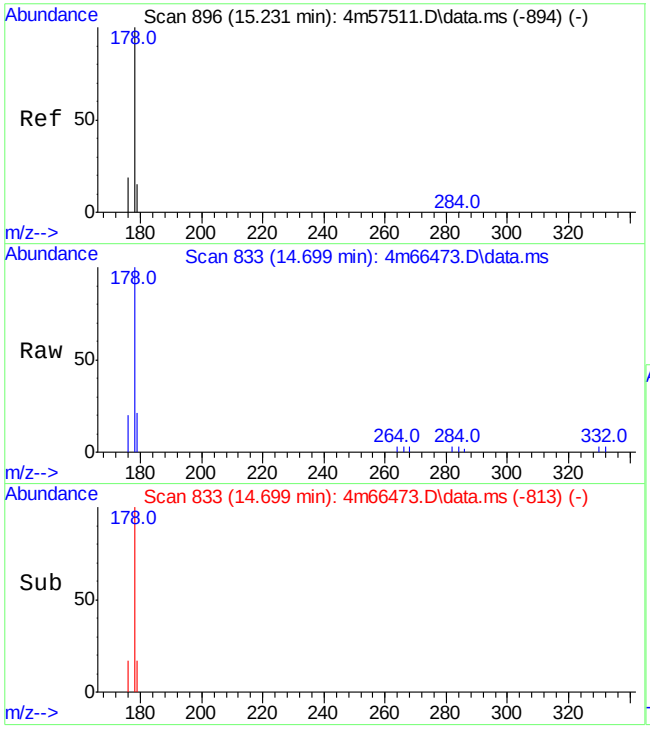


#16
Fluorene
Concen: 0.11 ppm
RT: 12.696 min Scan# 738
Delta R.T. -0.116 min
Lab File: 4m66473.D
Acq: 29 Jun 2016 6:22 pm

Tgt Ion:166 Resp: 1640

Ion	Ratio	Lower	Upper
166	100		
165	83.4	55.6	115.6
167	13.5	0.0	43.6

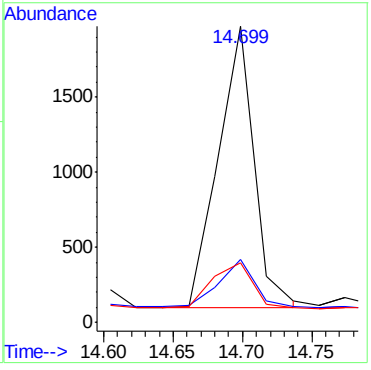


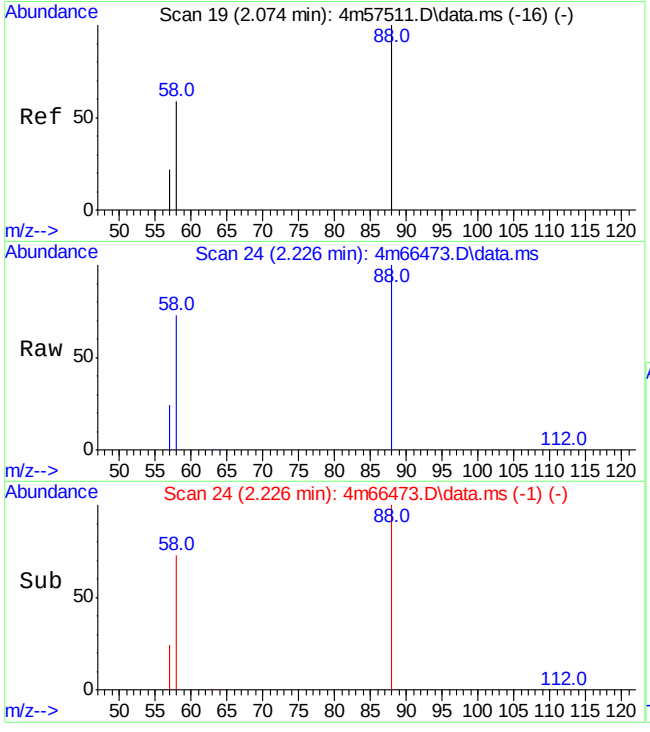


#21
Anthracene
Concen: 0.19 ppm
RT: 14.699 min Scan# 833
Delta R.T. -0.132 min
Lab File: 4m66473.D
Acq: 29 Jun 2016 6:22 pm

Tgt Ion:178 Resp: 3392

Ion	Ratio	Lower	Upper
178	100		
179	16.9	0.0	47.0
176	16.2	0.0	45.1

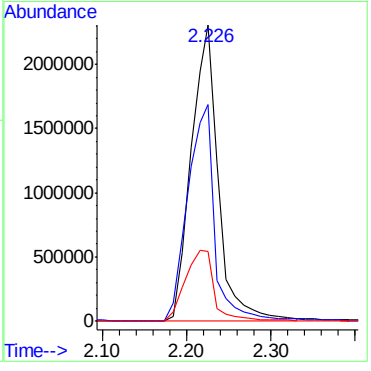




#36
1,4-Dioxane
Concen: 577.03 ppm m
RT: 2.226 min Scan# 24
Delta R.T. 0.000 min
Lab File: 4m66473.D
Acq: 29 Jun 2016 6:22 pm

Tgt Ion: 88 Resp: 5207383

Ion	Ratio	Lower	Upper
88	100		
58	73.2	0.0	28.3#
57	23.5	0.0	25.6



Manual Integration Approval Summary

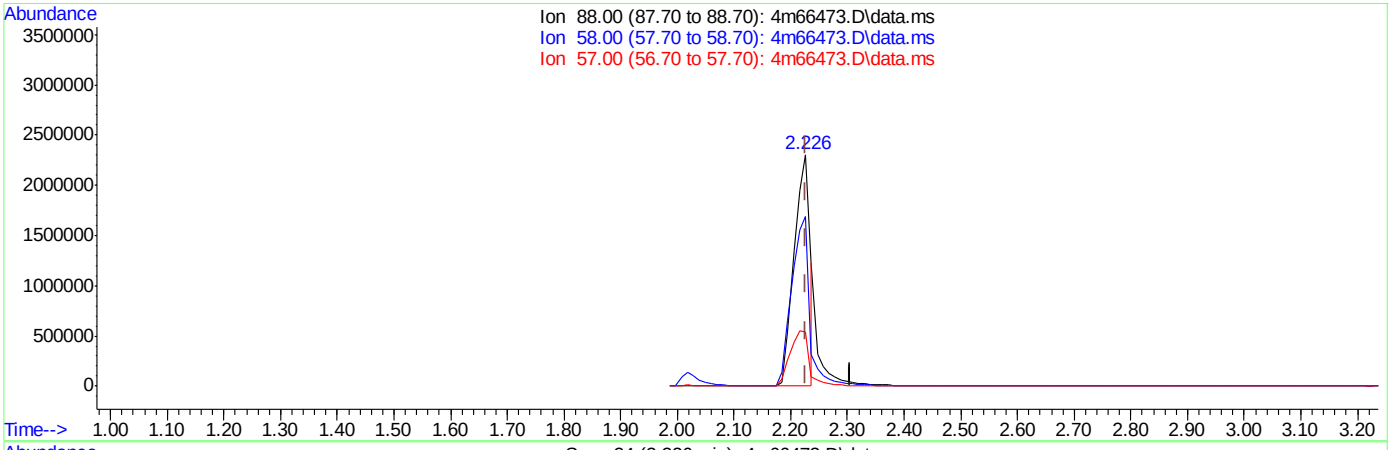
Sample Number:	JC22206-10	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66473.D	**Analyst approved:**	06/30/16 09:00 Linsey Kirschmann
Injection Time:	06/29/16 18:22	**Supervisor approved:**	06/30/16 12:06 Nina Pandya

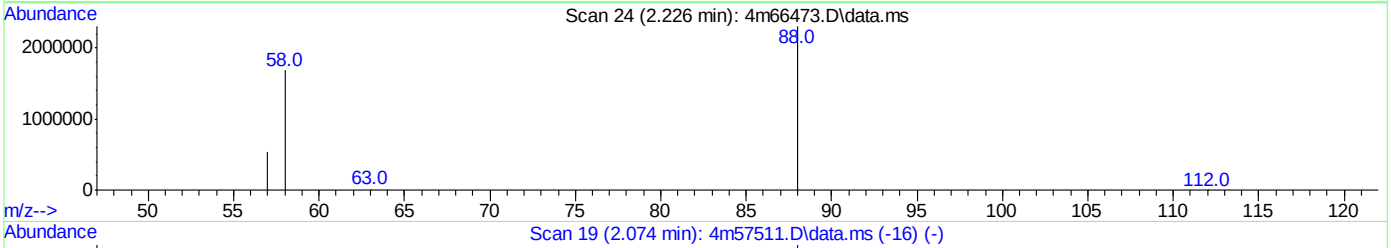
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.23	Poor instrument integration

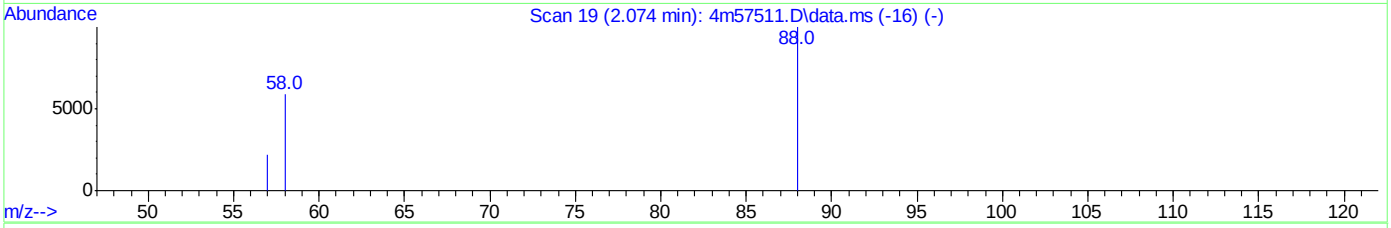
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66473.D
Acq On : 29 Jun 2016 6:22 pm
Operator : linseyk
Sample : jc22206-10
Misc : op94859a,e4m2989,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 29 18:47:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration







TIC: 4m66473.D\data.ms

(36) 1,4-Dioxane (t)

2.226min (+0.000) 539.15ppm

response 4627464

Ion	Exp%	Act%
88.00	100	100
58.00	8.30	90.51#
57.00	5.60	29.22#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66474.D
Acq On : 29 Jun 2016 6:54 pm
Operator : linseyk
Sample : jc22206-11
Misc : op94859a,e4m2989,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 08:59:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	40881	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	51695	4.00	ppm	-0.13
22) Fluoranthene-d10	16.826	212	123884	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.424	264	103930	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	40881	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	51695	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	186500	28.63	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery = 57.26%			
3) Phenol-d5	5.415	99	206389	20.09	ppm	-0.07
Spiked Amount 50.000			Recovery = 40.18%			
6) Nitrobenzene-d5	6.860	82	393640	43.08	ppm	-0.11
Spiked Amount 50.000			Recovery = 86.16%			
11) 2-Fluorobiphenyl	10.311	172	708935	43.08	ppm	-0.12
Spiked Amount 50.000			Recovery = 86.16%			
17) 2,4,6-Tribromophenol	13.194	330	157640	65.43	ppm	-0.12
Spiked Amount 50.000			Recovery = 130.86%			
25) Terphenyl-d14	17.636	244	886329	50.66	ppm	-0.11
Spiked Amount 50.000			Recovery = 101.32%			
Target Compounds						Qvalue

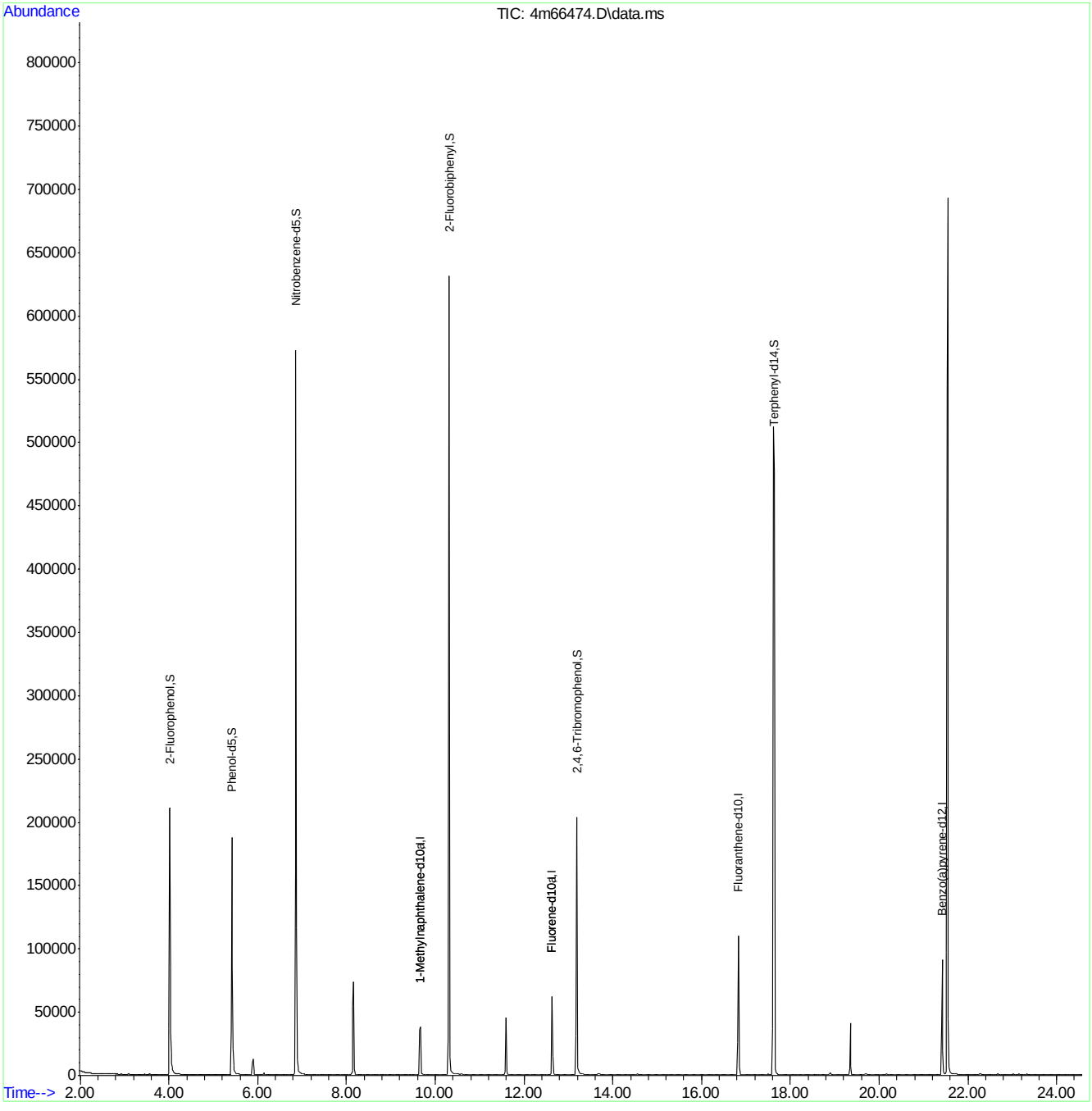
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66474.D
Acq On : 29 Jun 2016 6:54 pm
Operator : linseyk
Sample : jc22206-11
Misc : op94859a,e4m2989,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 30 08:59:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 28 13:27:37 2016
Response via : Initial Calibration



M4M2974SIM.M Thu Jun 30 08:59:56 2016 MANAGER

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158099.D Vial: 4
Acq On : 20 Jun 2016 8:50 am Operator: brittanp
Sample : op94835-mb1 Inst : MSF
Misc : op94835,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 09:12:32 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.78	152	201640	40.00	ppm	0.00
24) Naphthalene-d8	5.71	136	812518	40.00	ppm	0.00
47) Acenaphthene-d10	7.16	164	468292	40.00	ppm	0.00
69) Phenanthrene-d10	9.08	188	720434	40.00	ppm	0.00
83) Chrysene-d12	14.38	240	622710	40.00	ppm	0.00
92) Perylene-d12	17.43	264	573066	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.78	152	201640	40.00	ppm	0.00
104) Naphthalene-d8b	5.71	136	812518	40.00	ppm	0.00
106) Acenaphthene-d10b	7.16	164	468292	40.00	ppm	0.00
108) Phenanthrene-d10b	9.08	188	720434	40.00	ppm	0.00
110) Chrysene-d12b	14.38	240	622710	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.79	112	188914	25.16	ppm	-0.09
Spiked Amount 50.000			Recovery = 50.32%			
8) Phenol-d5	4.51	99	157031	16.16	ppm	0.00
Spiked Amount 50.000			Recovery = 32.32%			
25) Nitrobenzene-d5	5.19	82	285069	35.07	ppm	-0.02
Spiked Amount 50.000			Recovery = 70.14%			
51) 2-Fluorobiphenyl	6.53	172	558454	37.90	ppm	0.00
Spiked Amount 50.000			Recovery = 75.80%			
73) 2,4,6-Tribromophenol	8.07	330	63020	48.41	ppm	0.00
Spiked Amount 50.000			Recovery = 96.82%			
85) Terphenyl-d14	12.16	244	565565	45.59	ppm	-0.02
Spiked Amount 50.000			Recovery = 91.18%			

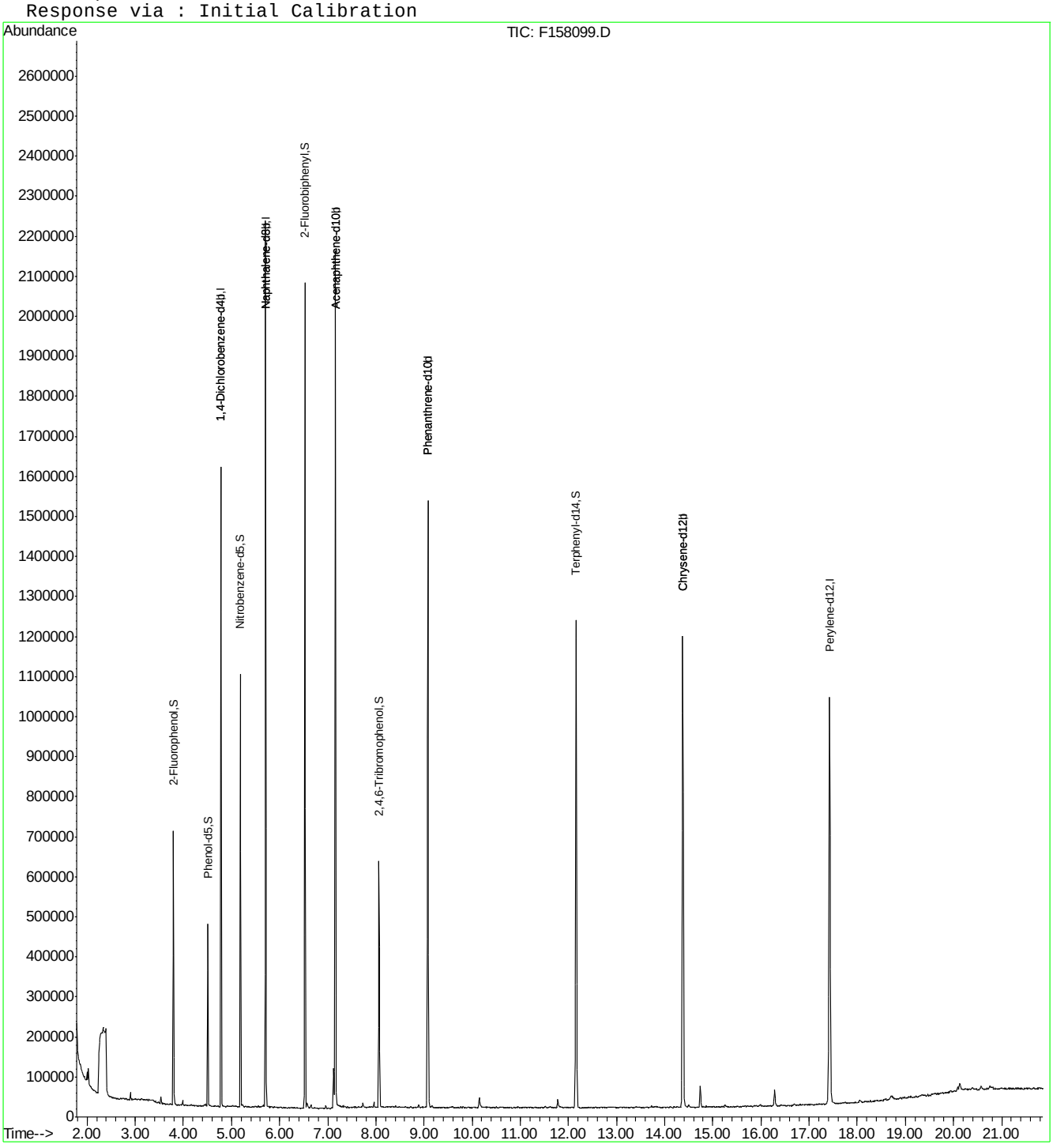
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158099.D MF6644.M Mon Jun 20 11:43:28 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158099.D Vial: 4
Acq On : 20 Jun 2016 8:50 am Operator: brittanp
Sample : op94835-mb1 Inst : MSF
Misc : op94835,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 11:43 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 10:53:23 2016
Response via : Initial Calibration



F158099.D MF6644.M Mon Jun 20 11:43:28 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158372.D Vial: 6
Acq On : 27 Jun 2016 10:12 am Operator: brittanp
Sample : op94859-mb1 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 10:34:54 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	220817	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	868690	40.00	ppm	-0.02
47) Acenaphthene-d10	7.01	164	499722	40.00	ppm	-0.02
69) Phenanthrene-d10	8.88	188	771810	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	666113	40.00	ppm	-0.04
92) Perylene-d12	17.18	264	621308	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	220817	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	868690	40.00	ppm	-0.02
106) Acenaphthene-d10b	7.01	164	499722	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.88	188	771810	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	666113	40.00	ppm	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	3.70	112	193515	23.53	ppm	-0.02
Spiked Amount 50.000			Recovery = 47.06%			
8) Phenol-d5	4.42	99	157664	14.81	ppm	-0.02
Spiked Amount 50.000			Recovery = 29.62%			
25) Nitrobenzene-d5	5.09	82	347083	39.94	ppm	-0.01
Spiked Amount 50.000			Recovery = 79.88%			
51) 2-Fluorobiphenyl	6.40	172	609855	38.79	ppm	-0.01
Spiked Amount 50.000			Recovery = 77.58%			
73) 2,4,6-Tribromophenol	7.90	330	69369	49.75	ppm	-0.03
Spiked Amount 50.000			Recovery = 99.50%			
85) Terphenyl-d14	11.94	244	610217	45.98	ppm	-0.03
Spiked Amount 50.000			Recovery = 91.96%			

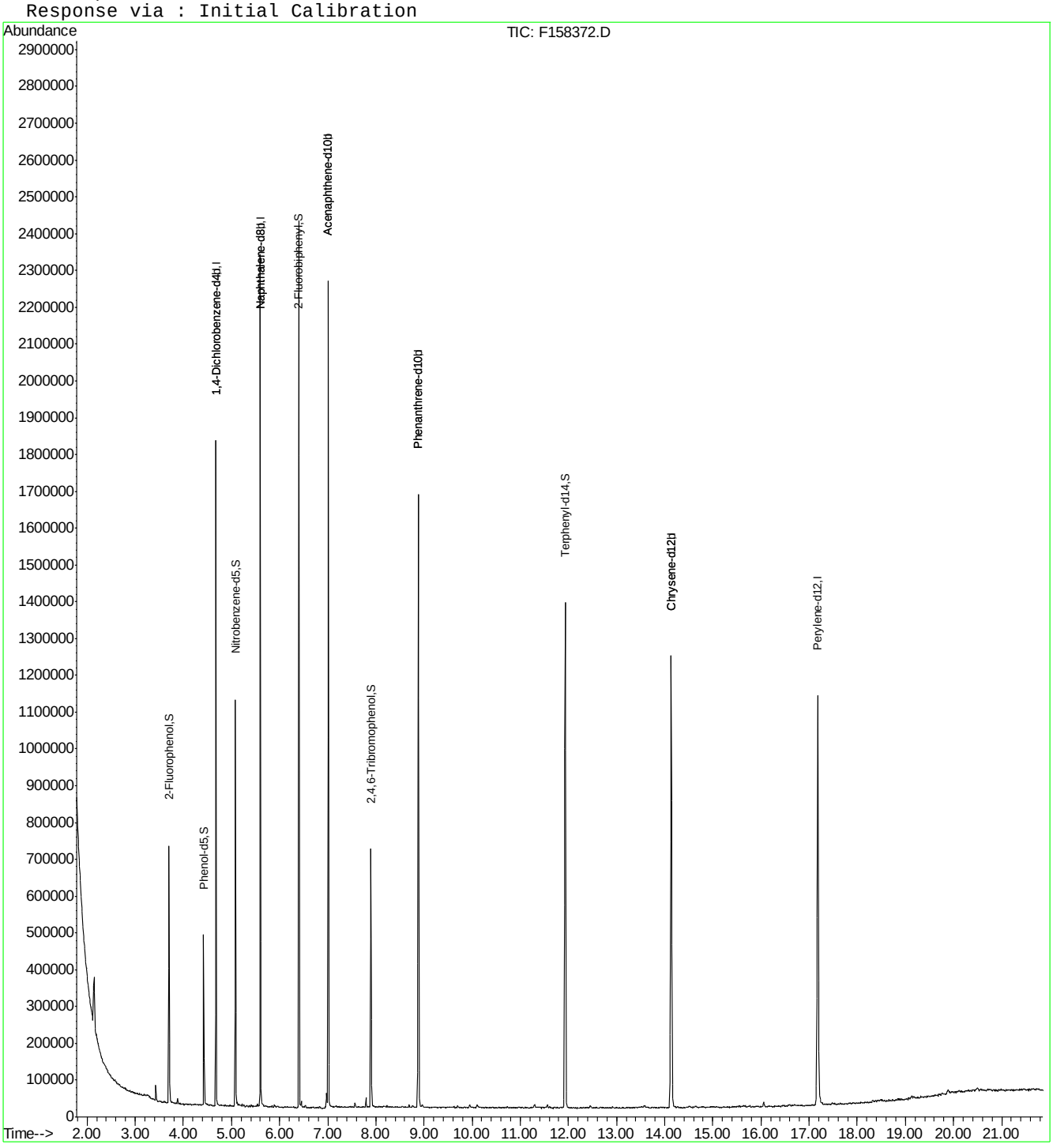
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158372.D MF6644.M Mon Jun 27 14:54:39 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158372.D Vial: 6
Acq On : 27 Jun 2016 10:12 am Operator: brittanp
Sample : op94859-mb1 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 14:54 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration



F158372.D MF6644.M Mon Jun 27 14:54:39 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66272.D
Acq On : 22 Jun 2016 9:42 pm
Operator : linseyk
Sample : op94835a-mb1
Misc : op94835a,e4m2978,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 23 09:03:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.762	152	47766	4.00	ppm	-0.02
12) Fluorene-d10	12.740	176	68470	4.00	ppm	-0.02
22) Fluoranthene-d10	16.920	212	126931	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.520	264	95899	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.762	152	47766	4.00	ppm	-0.02
38) Fluorene-d10a	12.740	176	68470	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.079	112	191344	25.14	ppm	-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 50.28%			
3) Phenol-d5	5.483	99	207426	17.28	ppm	0.00
Spiked Amount 50.000			Recovery = 34.56%			
6) Nitrobenzene-d5	6.953	82	409294	38.34	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.68%			
11) 2-Fluorobiphenyl	10.407	172	751976	39.11	ppm	-0.02
Spiked Amount 50.000			Recovery = 78.22%			
17) 2,4,6-Tribromophenol	13.289	330	163339	51.18	ppm	-0.02
Spiked Amount 50.000			Recovery = 102.36%			
25) Terphenyl-d14	17.730	244	825578	46.06	ppm	-0.02
Spiked Amount 50.000			Recovery = 92.12%			
Target Compounds						Qvalue

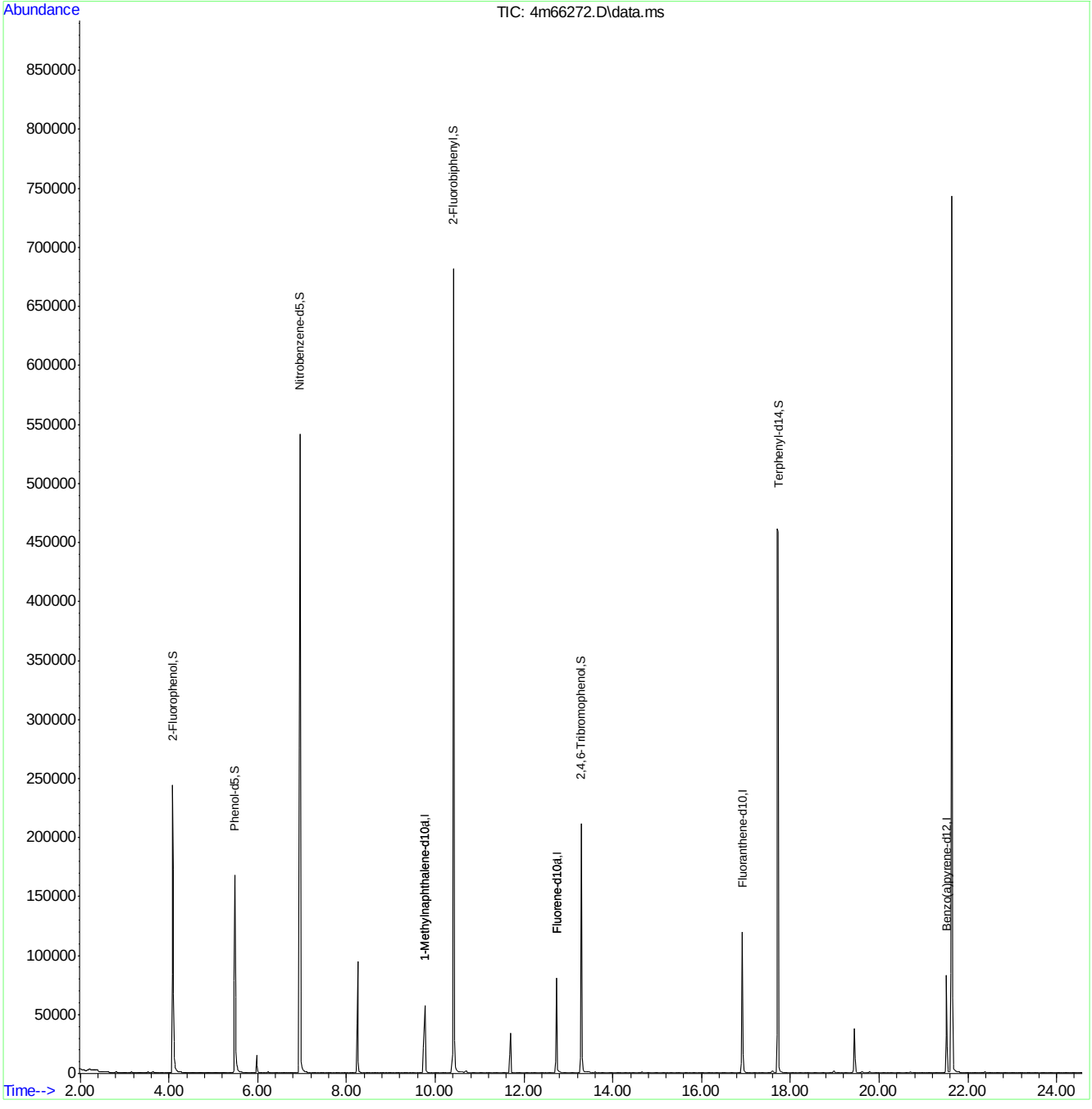
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66272.D
Acq On : 22 Jun 2016 9:42 pm
Operator : linseyk
Sample : op94835a-mb1
Misc : op94835a,e4m2978,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 23 09:03:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66390.D
Acq On : 27 Jun 2016 6:34 pm
Operator : linseyk
Sample : op94859a-mb1
Misc : op94859a,e4m2984,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 28 12:49:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.715	152	36448	4.00	ppm	-0.07
12) Fluorene-d10	12.696	176	42701	4.00	ppm	-0.07
22) Fluoranthene-d10	16.883	212	92770	4.00	ppm	-0.06
28) Benzo(a)pyrene-d12	21.478	264	77690	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.715	152	36448	4.00	ppm	-0.07
38) Fluorene-d10a	12.696	176	42701	4.00	ppm	-0.07
System Monitoring Compounds						
2) 2-Fluorophenol	4.069	112	135113	23.26	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 46.52%			
3) Phenol-d5	5.483	99	141318	15.43	ppm	0.00
Spiked Amount 50.000			Recovery = 30.86%			
6) Nitrobenzene-d5	6.907	82	321844	39.51	ppm	-0.06
Spiked Amount 50.000			Recovery = 79.02%			
11) 2-Fluorobiphenyl	10.359	172	532388	36.29	ppm	-0.07
Spiked Amount 50.000			Recovery = 72.58%			
17) 2,4,6-Tribromophenol	13.242	330	110710	55.63	ppm	-0.07
Spiked Amount 50.000			Recovery = 111.26%			
25) Terphenyl-d14	17.673	244	586844	44.79	ppm	-0.08
Spiked Amount 50.000			Recovery = 89.58%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.247	88	1489	0.56	ppm	88

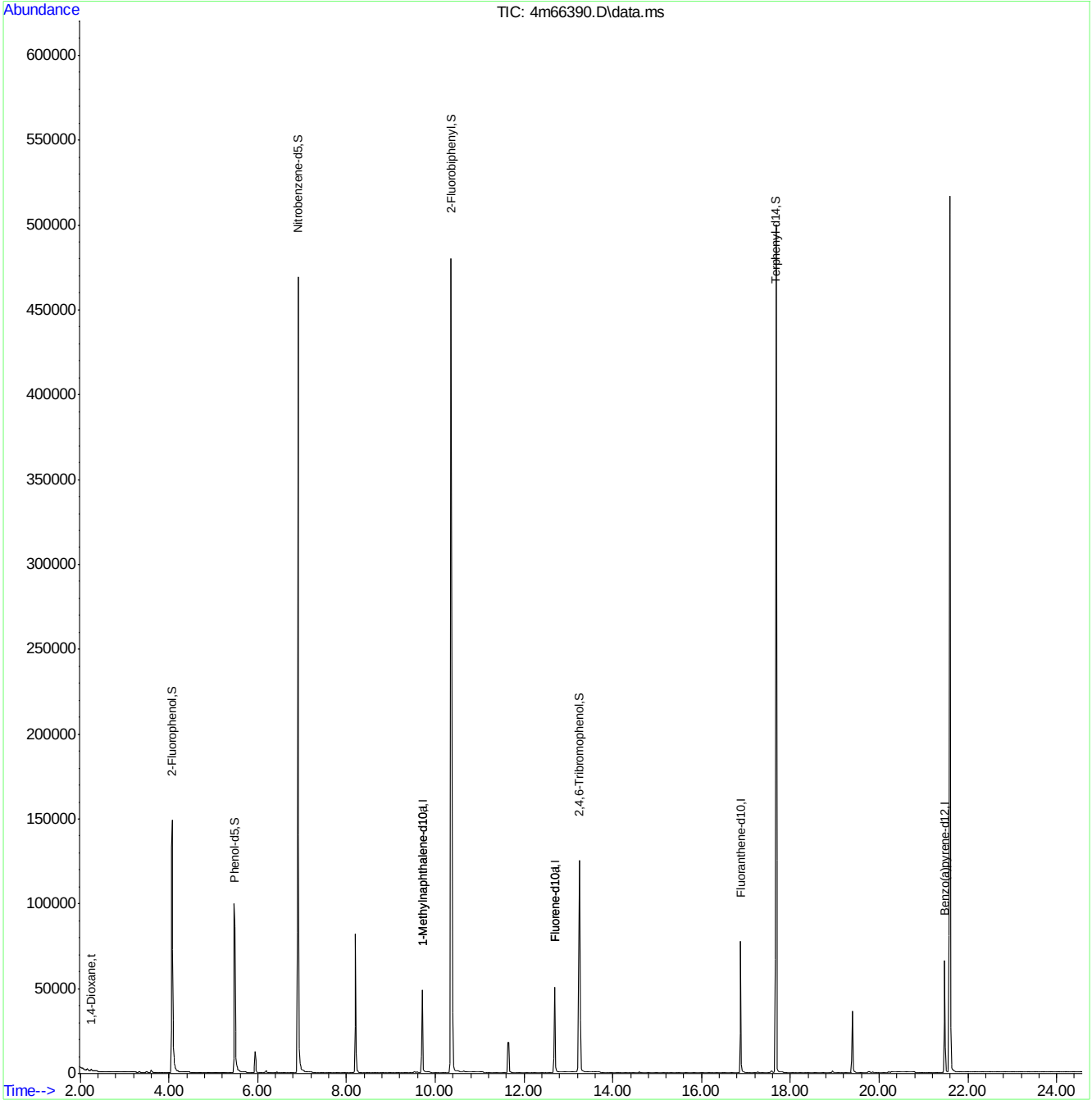
(#) = qualifier out of range (m) = manual integration (+) = signals summed

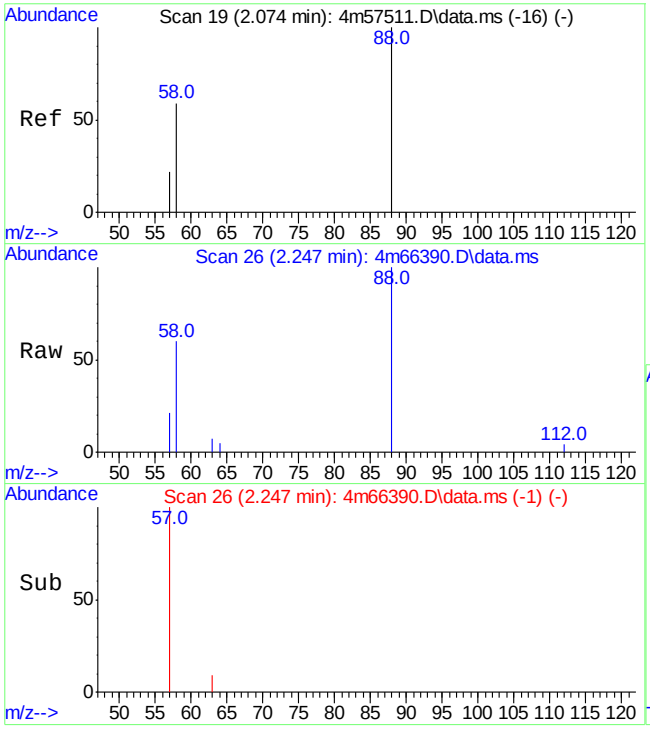
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66390.D
Acq On : 27 Jun 2016 6:34 pm
Operator : linseyk
Sample : op94859a-mb1
Misc : op94859a,e4m2984,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 28 12:49:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

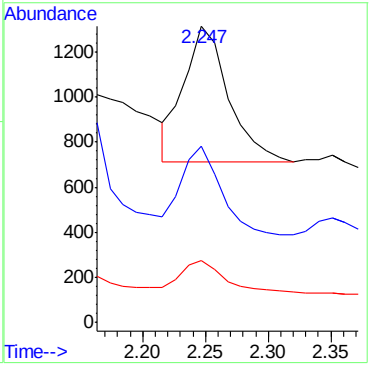




#36
1,4-Dioxane
Concen: 0.56 ppm
RT: 2.247 min Scan# 26
Delta R.T. -0.041 min
Lab File: 4m66390.D
Acq: 27 Jun 2016 6:34 pm

Tgt Ion: 88 Resp: 1489

Ion	Ratio	Lower	Upper
88	100		
58	68.4	61.9	101.9
57	24.9	3.3	43.3



7.2.4

7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62585.D
Acq On : 28 Jun 2016 1:35 pm
Operator : linseyk
Sample : op94859a-mb1
Misc : op94859a,e3m2954,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 15:32:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 28 12:27:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.722	150	514927	4.00	ppm	-0.14
14) Fluorene-d10	13.725	176	728071	4.00	ppm	-0.17
21) Fluoranthene-d10	17.924	212	1075664	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.527	264	850647	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.678	112	1760689	21.83	ppm	-0.08
Spiked Amount 50.000			Recovery = 43.66%			
4) Phenol-d5	6.297	99	1768616	13.85	ppm	-0.05
Spiked Amount 50.000			Recovery = 27.70%			
7) Nitrobenzene-d5	7.820	82	4091933	39.18	ppm	-0.14
Spiked Amount 50.000			Recovery = 78.36%			
15) 2-Fluorobiphenyl	11.379	172	6863970	30.80	ppm	-0.16
Spiked Amount 50.000			Recovery = 61.60%			
20) 2,4,6-Tribromophenol	14.271	330	1082086	45.99	ppm	-0.15
Spiked Amount 50.000			Recovery = 91.98%			
28) Terphenyl-d14	18.728	244	6921706	42.73	ppm	-0.01
Spiked Amount 50.000			Recovery = 85.46%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.391	88	12777	0.40	ppm #	11

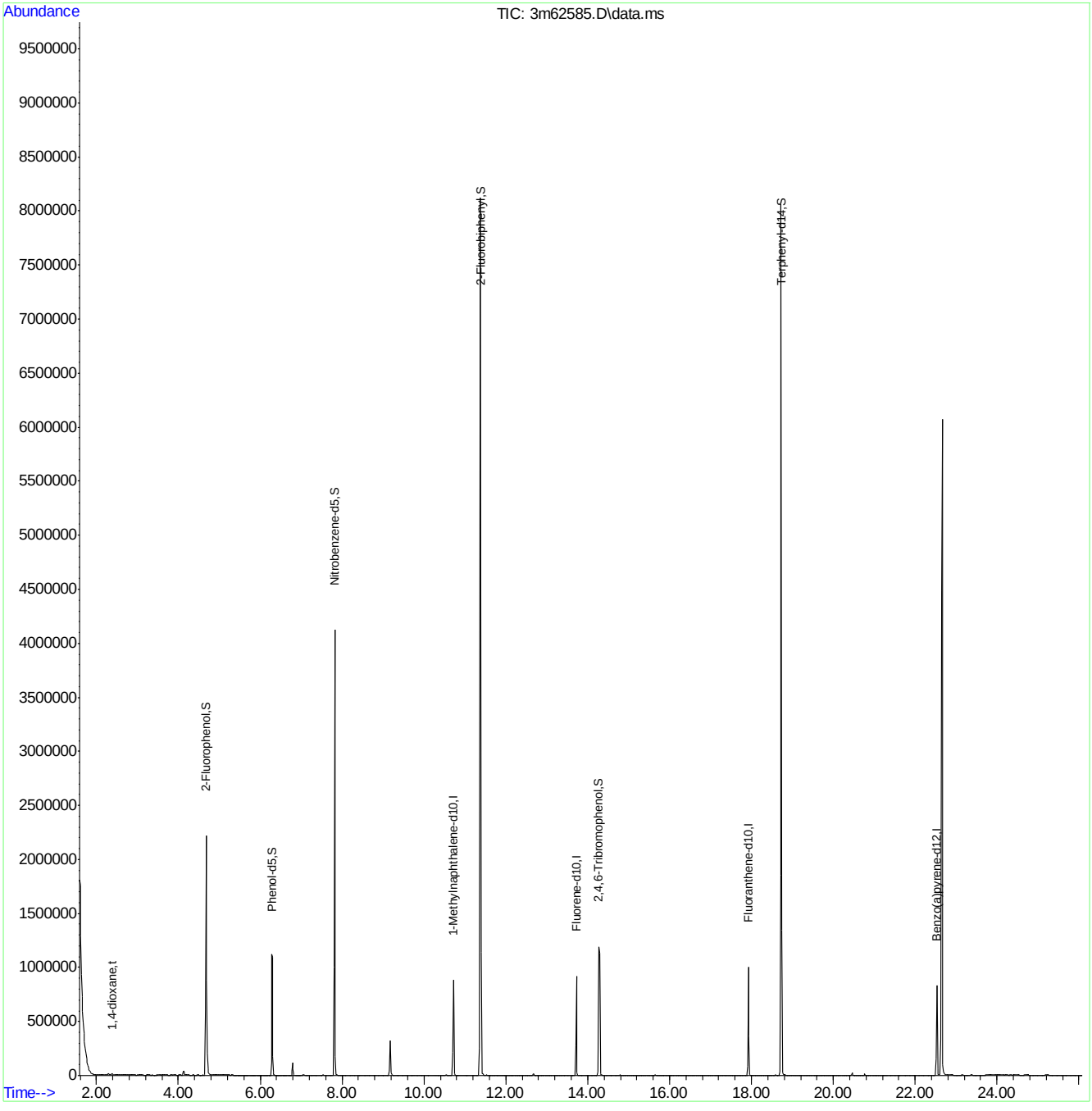
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

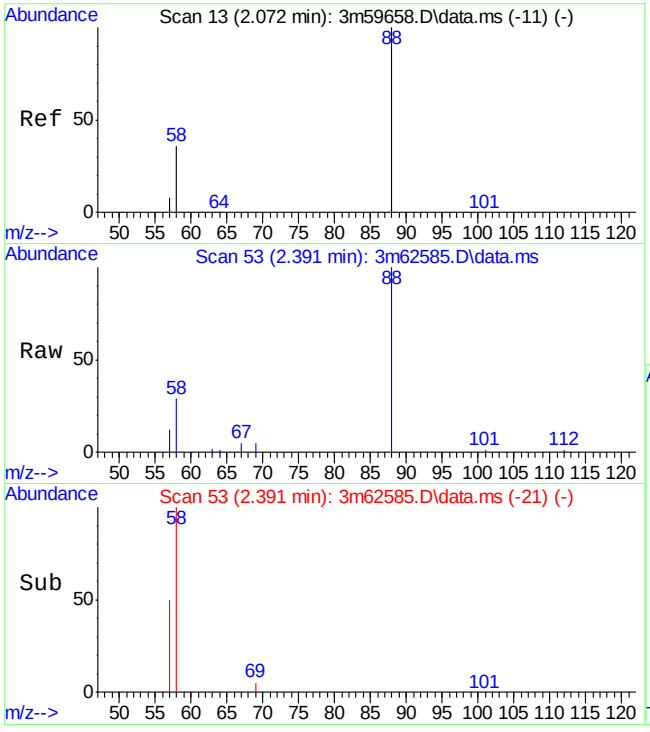
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62585.D
Acq On : 28 Jun 2016 1:35 pm
Operator : linseyk
Sample : op94859a-mb1
Misc : op94859a,e3m2954,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 15:32:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 28 12:27:59 2016
Response via : Initial Calibration



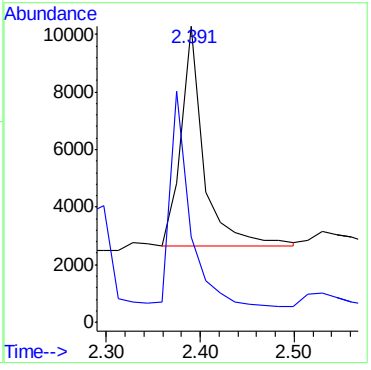
M3M2942SIM.M Tue Jun 28 15:32:27 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 0.40 ppm
RT: 2.391 min Scan# 53
Delta R.T. 0.000 min
Lab File: 3m62585.D
Acq: 28 Jun 2016 1:35 pm

Tgt Ion: 88 Resp: 12777

Ion	Ratio	Lower	Upper
88	100		
58	31.1	118.4	158.4#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85121.D
Acq On : 28 Jun 2016 4:14 pm
Operator : ashleyn
Sample : op94859a-mb1
Misc : op94859a,e2m3754,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 16:52:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Mon Jun 27 16:37:24 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.836	152	167504	40.00 ppm	-0.05
24) Naphthalene-d8	5.954	136	670188	40.00 ppm	-0.06
47) Acenaphthene-d10	8.066	164	391089	40.00 ppm	-0.06
69) Phenanthrene-d10	10.275	188	656014	40.00 ppm	-0.07
83) Chrysene-d12	14.496	240	576775	40.00 ppm	-0.07
91) Perylene-d12	16.635	264	451194	40.00 ppm	-0.08
101) 1,4-Dichlorobenzene-d4a	4.836	152	167504	40.00 ppm	-0.05
103) Acenaphthene-d10a	8.066	164	391089	40.00 ppm	-0.06
105) Chrysene-d12a	14.496	240	576775	40.00 ppm	-0.07
108) Phenanthrene-d10a	10.275	188	656014	40.00 ppm	-0.07
111) Naphthalene-d8a	5.954	136	670188	40.00 ppm	-0.06
113) Chrysene-d12b	14.496	240	576775	40.00 ppm	-0.07

System Monitoring Compounds					
5) 2-Fluorophenol	3.884	112	104575	17.64 ppm	-0.04
Spiked Amount 50.000			Recovery = 35.28%		
8) Phenol-d5	4.611	99	92019	12.26 ppm	-0.03
Spiked Amount 50.000			Recovery = 24.52%		
25) Nitrobenzene-d5	5.301	82	257728	34.86 ppm	-0.04
Spiked Amount 50.000			Recovery = 69.72%		
51) 2-Fluorobiphenyl	7.173	172	473166	37.53 ppm	-0.06
Spiked Amount 50.000			Recovery = 75.06%		
73) 2,4,6-Tribromophenol	9.232	330	72482	39.86 ppm	-0.07
Spiked Amount 50.000			Recovery = 79.72%		
85) Terphenyl-d14	12.832	244	559697	42.41 ppm	-0.09
Spiked Amount 50.000			Recovery = 84.82%		
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds	Qvalue

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

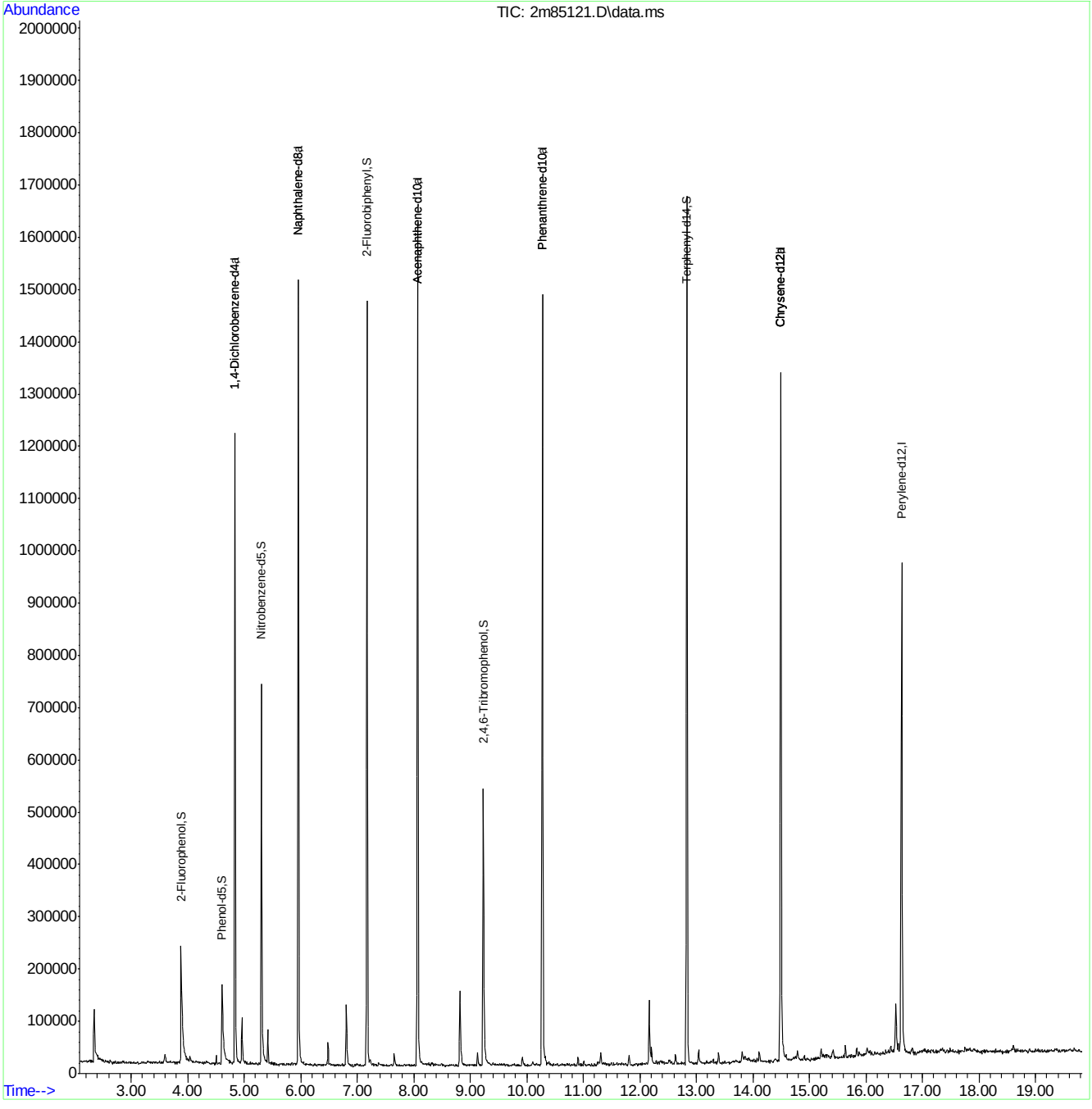
7.2.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85121.D
Acq On : 28 Jun 2016 4:14 pm
Operator : ashleyn
Sample : op94859a-mb1
Misc : op94859a,e2m3754,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 16:52:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Mon Jun 27 16:37:24 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158100.D Vial: 5
Acq On : 20 Jun 2016 9:19 am Operator: brittanp
Sample : op94835-bs1 Inst : MSF
Misc : op94835,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 09:41:30 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.78	152	218852	40.00	ppm	0.00
24) Naphthalene-d8	5.71	136	990276	40.00	ppm	0.00
47) Acenaphthene-d10	7.16	164	515074	40.00	ppm	0.00
69) Phenanthrene-d10	9.08	188	757230	40.00	ppm	0.00
83) Chrysene-d12	14.38	240	624983	40.00	ppm	0.00
92) Perylene-d12	17.43	264	549973	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.78	152	218852	40.00	ppm	0.00
104) Naphthalene-d8b	5.71	136	990276	40.00	ppm	0.00
106) Acenaphthene-d10b	7.16	164	515074	40.00	ppm	0.00
108) Phenanthrene-d10b	9.08	188	757230	40.00	ppm	0.00
110) Chrysene-d12b	14.38	240	624983	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.79	112	228217	28.00	ppm	-0.09
Spiked Amount 50.000			Recovery = 56.00%			
8) Phenol-d5	4.51	99	196205	18.60	ppm	0.00
Spiked Amount 50.000			Recovery = 37.20%			
25) Nitrobenzene-d5	5.19	82	322562	32.56	ppm	-0.02
Spiked Amount 50.000			Recovery = 65.12%			
51) 2-Fluorobiphenyl	6.53	172	634098	39.13	ppm	0.00
Spiked Amount 50.000			Recovery = 78.26%			
73) 2,4,6-Tribromophenol	8.07	330	65465	47.85	ppm	0.00
Spiked Amount 50.000			Recovery = 95.70%			
85) Terphenyl-d14	12.16	244	566464	45.49	ppm	-0.02
Spiked Amount 50.000			Recovery = 90.98%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.37	88	76092	18.94	ppm		91
3) Pyridine	2.69	79	141894	14.40	ppm		98
4) N-Nitrosodimethylamine	2.65	42	49394	19.95	ppm		98
6) Indene	4.97	116	559473	36.54	ppm		100
7) Cumene	4.19	105	648757	31.11	ppm		98
9) Phenol	4.52	94	230382	19.35	ppm		98
10) Aniline	4.54	93	416398	28.89	ppm		77
11) bis(2-Chloroethyl)ether	4.59	93	295069	33.63	ppm		92
12) 2-Chlorophenol	4.63	128	301981	34.73	ppm		95
13) Decane	4.66	43	140008	20.68	ppm		91
14) 1,3-Dichlorobenzene	4.74	146	280321	29.38	ppm		100
15) 1,4-Dichlorobenzene	4.80	146	291268	30.02	ppm		100
16) Benzyl alcohol	4.88	108	193174	33.87	ppm		97
17) 1,2-Dichlorobenzene	4.90	146	278601	30.64	ppm		99
18) Acetophenone	5.08	105	445799	36.32	ppm	#	69
19) 2-Methylphenol	4.96	108	260822	31.71	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.98	121	94742	32.61	ppm	#	66
21) 3&4-Methylphenol	5.08	108	250894	28.98	ppm		95
22) n-Nitroso-di-n-propylamine	5.08	70	172449	26.64	ppm	#	91
23) Hexachloroethane	5.16	201	80183	30.80	ppm		97
26) Nitrobenzene	5.20	77	302738	27.87	ppm		92
27) Quinoline	5.97	129	754458	38.73	ppm		99
28) Isophorone	5.37	82	560573	30.72	ppm		100

(#) = qualifier out of range (m) = manual integration
F158100.D MF6644.M Mon Jun 20 11:46:24 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158100.D Vial: 5
Acq On : 20 Jun 2016 9:19 am Operator: brittanp
Sample : op94835-bs1 Inst : MSF
Misc : op94835,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 09:41:30 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29)	2-Nitrophenol	5.43	139	161989	37.89 ppm	83
30)	2,4-Dimethylphenol	5.46	107	301271	32.56 ppm	99
31)	Benzoic acid	5.53	105	121464	18.83 ppm	95
32)	bis(2-Chloroethoxy)methane	5.53	93	354193	30.76 ppm	99
33)	2,4-Dichlorophenol	5.60	162	243532	35.42 ppm	99
34)	2,6-Dichlorophenol	5.77	162	234208	34.16 ppm	96
36)	1,2,4-Trichlorobenzene	5.67	180	224149	29.27 ppm	99
38)	Naphthalene	5.73	128	815844	28.38 ppm	99
39)	4-Chloroaniline	5.76	127	352238	30.16 ppm	95
40)	2,3-Dichloroaniline	6.46	161	324065	36.91 ppm	100
41)	Caprolactam	6.02	55	31252	9.83 ppm	91
42)	Hexachlorobutadiene	5.81	225	101791	29.70 ppm	99
43)	4-Chloro-3-methylphenol	6.11	107	271934	34.44 ppm	97
44)	2-Methylnaphthalene	6.23	141	499323	32.83 ppm	98
45)	1-Methylnaphthalene	6.32	141	566689	35.27 ppm	99
46)	Dimethylnaphthalene	6.75	156	579342	36.83 ppm	98
48)	Hexachlorocyclopentadiene	6.36	237	242097	76.34 ppm	100
49)	2,4,6-Trichlorophenol	6.46	196	158638	41.83 ppm	100
50)	2,4,5-Trichlorophenol	6.49	196	163822	38.07 ppm	98
52)	2-Chloronaphthalene	6.64	162	544704	36.22 ppm	100
53)	Biphenyl	6.61	154	784885	39.59 ppm	99
54)	2-Nitroaniline	6.72	65	146484	34.71 ppm	81
55)	Dimethylphthalate	6.88	163	618527	37.69 ppm	100
56)	Acenaphthylene	7.02	152	866717	35.94 ppm	99
57)	2,6-Dinitrotoluene	6.95	165	142442	43.84 ppm	93
58)	3-Nitroaniline	7.11	138	162099	38.87 ppm	91
59)	Acenaphthene	7.19	153	564117	36.40 ppm	95
60)	2,4-Dinitrophenol	7.22	184	168533	91.37 ppm	77
61)	4-Nitrophenol	7.27	109	55155	26.92 ppm	88
62)	Dibenzofuran	7.37	168	780326	37.30 ppm	97
63)	2,4-Dinitrotoluene	7.35	165	192687	43.55 ppm	90
64)	2,3,4,6-Tetrachlorophenol	7.51	232	122783	42.32 ppm	98
65)	Diethylphthalate	7.63	149	593534	37.77 ppm	99
66)	Fluorene	7.77	166	602863	37.01 ppm	100
67)	4-Chlorophenyl-phenylether	7.77	204	255582	37.87 ppm	99
68)	4-Nitroaniline	7.79	138	185651	42.91 ppm	95
70)	4,6-Dinitro-2-methylphenol	7.83	198	108040	41.54 ppm	96
71)	n-Nitrosodiphenylamine	7.91	169	413623	39.59 ppm	99
72)	1,2-Diphenylhydrazine	7.97	77	607231	32.86 ppm	98
74)	4-Bromophenyl-phenylether	8.41	248	139793	41.59 ppm	98
75)	Hexachlorobenzene	8.49	284	141129	39.66 ppm	94
76)	Pentachlorophenol	8.78	266	89007	43.79 ppm	97
77)	Phenanthrene	9.12	178	858149	37.09 ppm	100
78)	Anthracene	9.20	178	838816	37.40 ppm	99
79)	Carbazole	9.48	167	824392	39.26 ppm	99
80)	Di-n-butylphthalate	10.19	149	980061	41.98 ppm	99
81)	Fluoranthene	11.28	202	819231	39.86 ppm	97
82)	Octadecane	8.96	57	312999	36.86 ppm	97
84)	Pyrene	11.73	202	864896	39.25 ppm	93

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158100.D Vial: 5
Acq On : 20 Jun 2016 9:19 am Operator: brittanp
Sample : op94835-bs1 Inst : MSF
Misc : op94835,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 09:41:30 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.33	149	406555	41.98	ppm	96
88)	Benzo[a]anthracene	14.36	228	717167	39.39	ppm	99
89)	3,3'-Dichlorobenzidine	14.41	252	445363	72.41	ppm	99
90)	Chrysene	14.44	228	718423	36.83	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.74	149	571744	38.01	ppm	98
93)	Di-n-octylphthalate	16.19	149	927470	39.50	ppm	97
94)	Benzo[b]fluoranthene	16.67	252	708952	42.00	ppm	98
95)	Benzo[k]fluoranthene	16.74	252	701418	41.17	ppm	97
96)	Benzo[a]pyrene	17.31	252	621733	42.92	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.37	276	565764	42.60	ppm	97
99)	Dibenz[a,h]anthracene	19.43	278	567993	41.63	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.70	256	361293	48.49	ppm	98
101)	Benzo[g,h,i]perylene	19.80	276	615215	40.48	ppm	99
103)	Benzaldehyde	4.46	105	259397	43.22	ppm	91
107)	1,2,4,5-Tetrachlorobenzene	6.37	216	219024	40.54	ppm	98
109)	Atrazine	8.68	200	172329	60.59	ppm	99
111)	Benzidine	11.63	184	190005	26.83	ppm	98

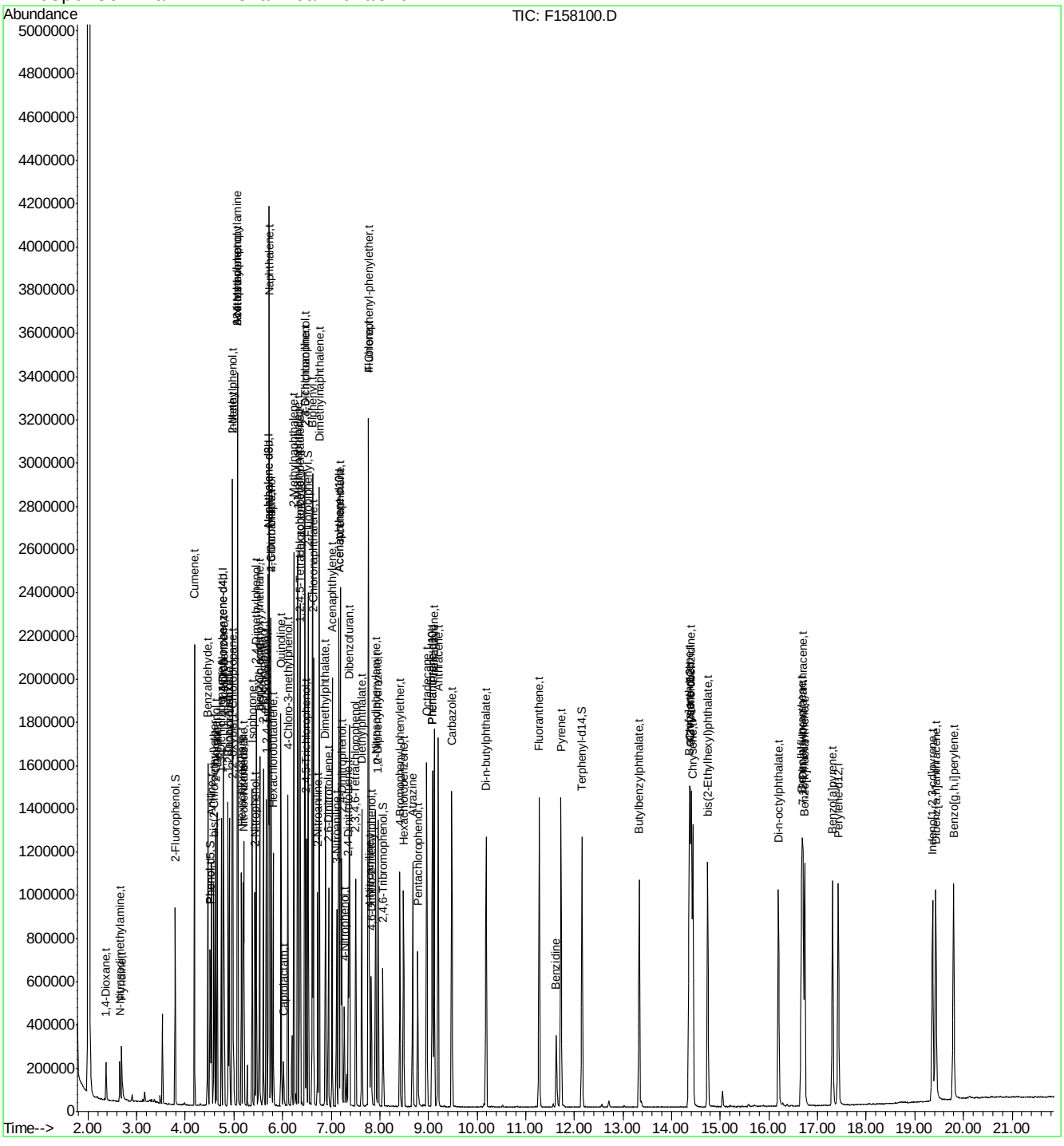
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158100.D Vial: 5
Acq On : 20 Jun 2016 9:19 am Operator: brittanp
Sample : op94835-bs1 Inst : MSF
Misc : op94835,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 11:46 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 10:53:23 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158373.D Vial: 7
Acq On : 27 Jun 2016 10:42 am Operator: brittanp
Sample : op94859-bs1 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 11:04:10 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	195796	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	896849	40.00	ppm	-0.01
47) Acenaphthene-d10	7.02	164	466214	40.00	ppm	-0.01
69) Phenanthrene-d10	8.88	188	731850	40.00	ppm	-0.02
83) Chrysene-d12	14.15	240	647408	40.00	ppm	-0.03
92) Perylene-d12	17.19	264	593057	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	195796	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	896849	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.02	164	466214	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.88	188	731850	40.00	ppm	-0.02
110) Chrysene-d12b	14.15	240	647408	40.00	ppm	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	3.70	112	201133	27.59	ppm	-0.02
Spiked Amount 50.000			Recovery = 55.18%			
8) Phenol-d5	4.43	99	173437	18.38	ppm	-0.02
Spiked Amount 50.000			Recovery = 36.76%			
25) Nitrobenzene-d5	5.09	82	338017	37.68	ppm	-0.01
Spiked Amount 50.000			Recovery = 75.36%			
51) 2-Fluorobiphenyl	6.41	172	610848	41.64	ppm	0.00
Spiked Amount 50.000			Recovery = 83.28%			
73) 2,4,6-Tribromophenol	7.90	330	68270	51.63	ppm	-0.02
Spiked Amount 50.000			Recovery = 103.26%			
85) Terphenyl-d14	11.94	244	619966	48.07	ppm	-0.03
Spiked Amount 50.000			Recovery = 96.14%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.24	88	71940	20.02	ppm		99
3) Pyridine	2.56	79	197693	22.42	ppm		99
4) N-Nitrosodimethylamine	2.53	42	55846	25.21	ppm		99
6) Indene	4.87	116	556046	40.59	ppm		100
7) Cumene	4.08	105	653537	35.03	ppm		100
9) Phenol	4.44	94	205328	19.27	ppm	#	48
10) Aniline	4.44	93	348444	27.02	ppm	#	66
11) bis(2-Chloroethyl)ether	4.49	93	306984	39.10	ppm		97
12) 2-Chlorophenol	4.53	128	286330	36.81	ppm		94
13) Decane	4.55	43	180999	29.88	ppm		99
14) 1,3-Dichlorobenzene	4.64	146	275907	32.33	ppm		99
15) 1,4-Dichlorobenzene	4.69	146	283044	32.61	ppm		100
16) Benzyl alcohol	4.79	108	184594	36.18	ppm		93
17) 1,2-Dichlorobenzene	4.80	146	274351	33.73	ppm		99
18) Acetophenone	4.97	105	448450	40.83	ppm		99
19) 2-Methylphenol	4.88	108	244802	33.27	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.88	121	89078	34.27	ppm		95
21) 3&4-Methylphenol	4.99	108	243149	31.39	ppm		98
22) n-Nitroso-di-n-propylamine	4.97	70	210012	36.27	ppm		96
23) Hexachloroethane	5.05	201	80323	34.48	ppm		96
26) Nitrobenzene	5.10	77	331007	33.65	ppm		97
27) Quinoline	5.86	129	715116	40.53	ppm		99
28) Isophorone	5.27	82	605190	36.62	ppm		96

(#) = qualifier out of range (m) = manual integration
F158373.D MF6644.M Mon Jun 27 14:56:11 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158373.D Vial: 7
Acq On : 27 Jun 2016 10:42 am Operator: brittanp
Sample : op94859-bs1 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 11:04:10 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2-Nitrophenol	5.33	139	160079	41.35 ppm	82
30) 2,4-Dimethylphenol	5.36	107	296976	35.44 ppm	97
31) Benzoic acid	5.42	105	41102	7.04 ppm	99
32) bis(2-Chloroethoxy)methane	5.42	93	369710	35.45 ppm	99
33) 2,4-Dichlorophenol	5.51	162	242435	38.93 ppm	98
34) 2,6-Dichlorophenol	5.66	162	232682	37.48 ppm	98
36) 1,2,4-Trichlorobenzene	5.56	180	224905	32.43 ppm	97
38) Naphthalene	5.62	128	805186	30.93 ppm	99
39) 4-Chloroaniline	5.66	127	276222	26.12 ppm	98
40) 2,3-Dichloroaniline	6.34	161	303589	38.18 ppm	99
41) Caprolactam	5.91	55	33585	11.66 ppm	93
42) Hexachlorobutadiene	5.70	225	102191	32.93 ppm	99
43) 4-Chloro-3-methylphenol	6.01	107	270868	37.88 ppm	95
44) 2-Methylnaphthalene	6.12	141	478510	34.73 ppm	100
45) 1-Methylnaphthalene	6.19	141	538225	36.99 ppm	98
46) Dimethylnaphthalene	6.62	156	551972	38.75 ppm	100
48) Hexachlorocyclopentadiene	6.24	237	225371	78.51 ppm	100
49) 2,4,6-Trichlorophenol	6.34	196	154510	45.02 ppm	98
50) 2,4,5-Trichlorophenol	6.37	196	170360	43.74 ppm	99
52) 2-Chloronaphthalene	6.51	162	529090	38.87 ppm	99
53) Biphenyl	6.49	154	750142	41.81 ppm	99
54) 2-Nitroaniline	6.60	65	179926	47.11 ppm	99
55) Dimethylphthalate	6.75	163	614379	41.36 ppm	98
56) Acenaphthylene	6.88	152	850764	38.97 ppm	100
57) 2,6-Dinitrotoluene	6.81	165	144195	49.03 ppm	99
58) 3-Nitroaniline	6.97	138	141089	37.38 ppm	98
59) Acenaphthene	7.05	153	543980	38.78 ppm	99
60) 2,4-Dinitrophenol	7.08	184	174095	103.23 ppm	94
61) 4-Nitrophenol	7.15	109	50346	27.15 ppm	96
62) Dibenzofuran	7.22	168	757170	39.99 ppm	98
63) 2,4-Dinitrotoluene	7.21	165	195251	48.76 ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.36	232	128200	48.82 ppm	96
65) Diethylphthalate	7.47	149	603131	42.40 ppm	99
66) Fluorene	7.61	166	590065	40.02 ppm	99
67) 4-Chlorophenyl-phenylether	7.61	204	250262	40.97 ppm	98
68) 4-Nitroaniline	7.64	138	184076	47.00 ppm	99
70) 4,6-Dinitro-2-methylphenol	7.67	198	111935	44.36 ppm	100
71) n-Nitrosodiphenylamine	7.75	169	422221	41.82 ppm	98
72) 1,2-Diphenylhydrazine	7.80	77	695741	38.95 ppm	99
74) 4-Bromophenyl-phenylether	8.24	248	141979	43.71 ppm	96
75) Hexachlorobenzene	8.31	284	146111	42.49 ppm	95
76) Pentachlorophenol	8.60	266	96089	48.91 ppm	99
77) Phenanthrene	8.92	178	875648	39.15 ppm	99
78) Anthracene	9.00	178	867320	40.01 ppm	99
79) Carbazole	9.29	167	871601	42.95 ppm	100
80) Di-n-butylphthalate	9.99	149	1048311	46.46 ppm	99
81) Fluoranthene	11.05	202	892018	44.91 ppm	100
82) Octadecane	8.78	57	374844	45.68 ppm	99
84) Pyrene	11.50	202	943168	41.32 ppm	98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158373.D Vial: 7
Acq On : 27 Jun 2016 10:42 am Operator: brittanp
Sample : op94859-bs1 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 11:04:10 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

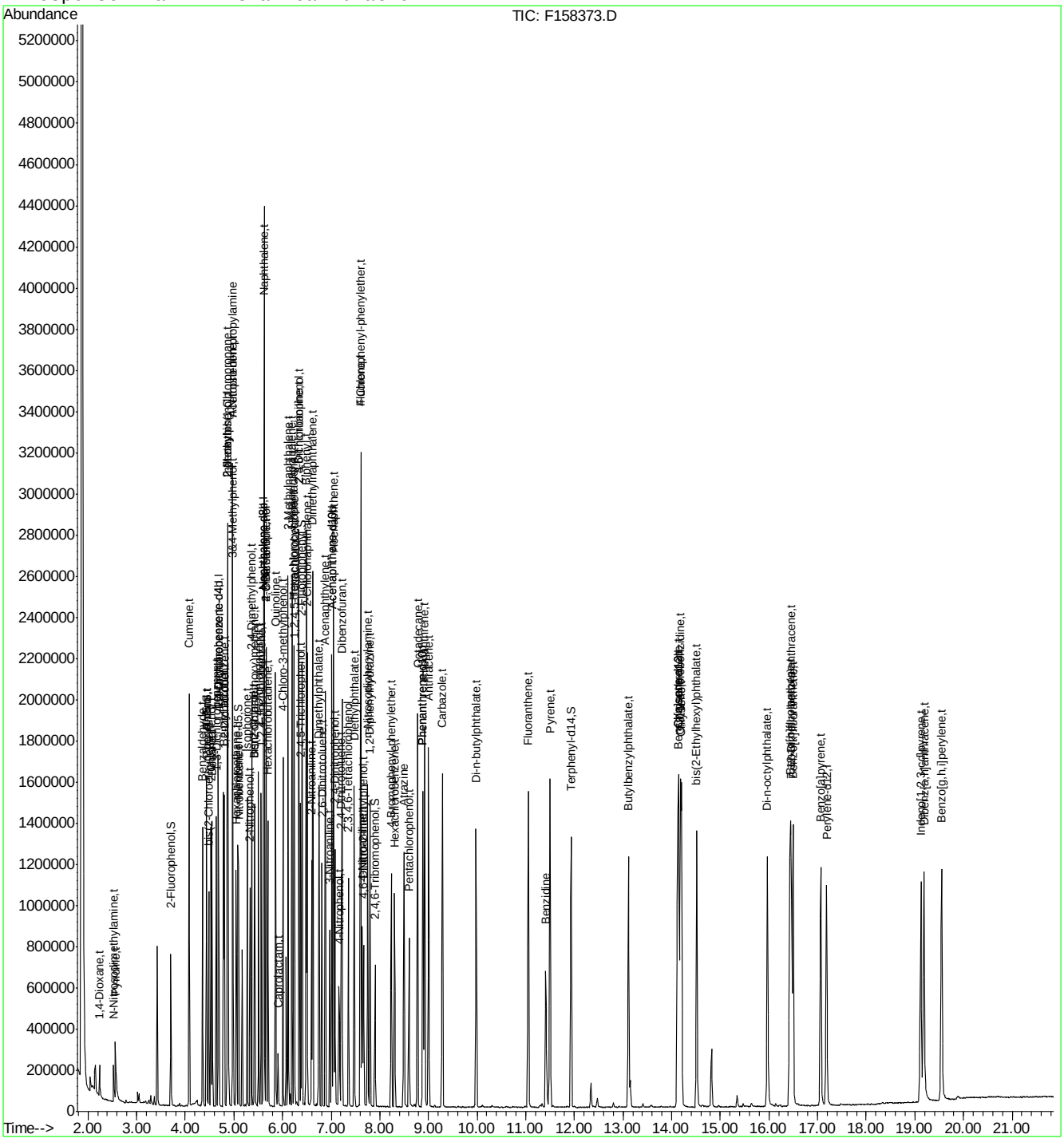
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.11	149	459945	45.85	ppm	97
88)	Benzo[a]anthracene	14.13	228	806125	42.75	ppm	99
89)	3,3'-Dichlorobenzidine	14.18	252	426241	66.90	ppm	99
90)	Chrysene	14.20	228	804423	39.82	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.52	149	634799	40.66	ppm	99
93)	Di-n-octylphthalate	15.97	149	1080612	42.58	ppm	99
94)	Benzo[b]fluoranthene	16.43	252	817292	44.90	ppm	92
95)	Benzo[k]fluoranthene	16.50	252	810307	44.10	ppm	96
96)	Benzo[a]pyrene	17.07	252	719733	46.07	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.13	276	654791	45.73	ppm	99
99)	Dibenz[a,h]anthracene	19.19	278	662109	45.00	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.45	256	408569	50.85	ppm	98
101)	Benzo[g,h,i]perylene	19.55	276	721989	44.05	ppm	99
103)	Benzaldehyde	4.36	105	248627	46.30	ppm	95
107)	1,2,4,5-Tetrachlorobenzene	6.25	216	216611	44.29	ppm	99
109)	Atrazine	8.50	200	177337	64.51	ppm	98
111)	Benzidine	11.41	184	388601	52.97	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158373.D MF6644.M Mon Jun 27 14:56:11 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158373.D Vial: 7
Acq On : 27 Jun 2016 10:42 am Operator: brittanp
Sample : op94859-bs1 Inst : MSF
Misc : op94859,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 14:56 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:37:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66273.D
Acq On : 22 Jun 2016 10:13 pm
Operator : linseyk
Sample : op94835a-bs12
Misc : op94835a,e4m2978,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 23 09:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.762	152	45803	4.00	ppm	-0.02
12) Fluorene-d10	12.740	176	63724	4.00	ppm	-0.02
22) Fluoranthene-d10	16.920	212	127174	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.520	264	97475	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.762	152	45803	4.00	ppm	-0.02
38) Fluorene-d10a	12.740	176	63724	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	191742	26.27	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 52.54%			
3) Phenol-d5	5.483	99	201141	17.48	ppm	0.00
Spiked Amount 50.000			Recovery = 34.96%			
6) Nitrobenzene-d5	6.953	82	415296	40.57	ppm	-0.02
Spiked Amount 50.000			Recovery = 81.14%			
11) 2-Fluorobiphenyl	10.407	172	742839	40.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 80.58%			
17) 2,4,6-Tribromophenol	13.289	330	170183	57.30	ppm	-0.02
Spiked Amount 50.000			Recovery = 114.60%			
25) Terphenyl-d14	17.730	244	853418	47.52	ppm	-0.02
Spiked Amount 50.000			Recovery = 95.04%			
Target Compounds						Qvalue
4) Phenol	5.511	94	25530	2.05	ppm	78
5) bis(2-Chloroethyl)ether	5.580	93	7705	0.88	ppm	73
7) Naphthalene	8.299	128	27048	0.85	ppm	95
8) Hexachlorobutadiene	8.562	225	4294	0.79	ppm	89
9) 2-Methylnaphthalene	9.643	142	11648	0.77	ppm	100
10) Hexachlorocyclopentadiene	9.977	237	301	0.64	ppm	98
13) Acenaphthylene	11.385	152	12889	0.76	ppm	98
14) Acenaphthene	11.742	153	12977	1.24	ppm	96
15) Dibenzofuran	12.119	168	18016	1.06	ppm	100
16) Fluorene	12.788	166	19951	1.06	ppm	98
18) Hexachlorobenzene	13.870	284	6454	1.03	ppm	80
19) Pentachlorophenol	14.341	266	3525	1.52	ppm	84
20) Phenanthrene	14.698	178	28383	1.11	ppm	95
21) Anthracene	14.793	178	26662	1.14	ppm	93
23) Fluoranthene	16.958	202	30333	0.82	ppm	94
24) Pyrene	17.334	202	31282	0.86	ppm	86
26) Benzo[a]anthracene	19.424	228	25561	0.81	ppm	98
27) Chrysene	19.481	228	25172	0.77	ppm	81
29) Benzo[b]fluoranthene	21.093	252	25521	0.76	ppm	96
30) Benzo[k]fluoranthene	21.134	252	28135	0.86	ppm	98
31) Benzo[a]pyrene	21.547	252	25442	0.83	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.089	276	28658	0.80	ppm	91
33) Dibenz[a,h]anthracene	23.131	278	23095	0.78	ppm	99
34) Benzo[g,h,i]perylene	23.489	276	23812	0.76	ppm	97
36) 1,4-Dioxane	2.268	88	1444	0.41	ppm #	74
39) 4,6-dinitro-2-methylph...	12.979	198	13176	4.35	ppm #	58
40) 1,2-Diphenylhydrazine	13.146	77	18496	1.05	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66273.D
Acq On : 22 Jun 2016 10:13 pm
Operator : linseyk
Sample : op94835a-bs12
Misc : op94835a,e4m2978,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 23 09:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.098	169	14849	1.19	ppm	83

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

7.3.3

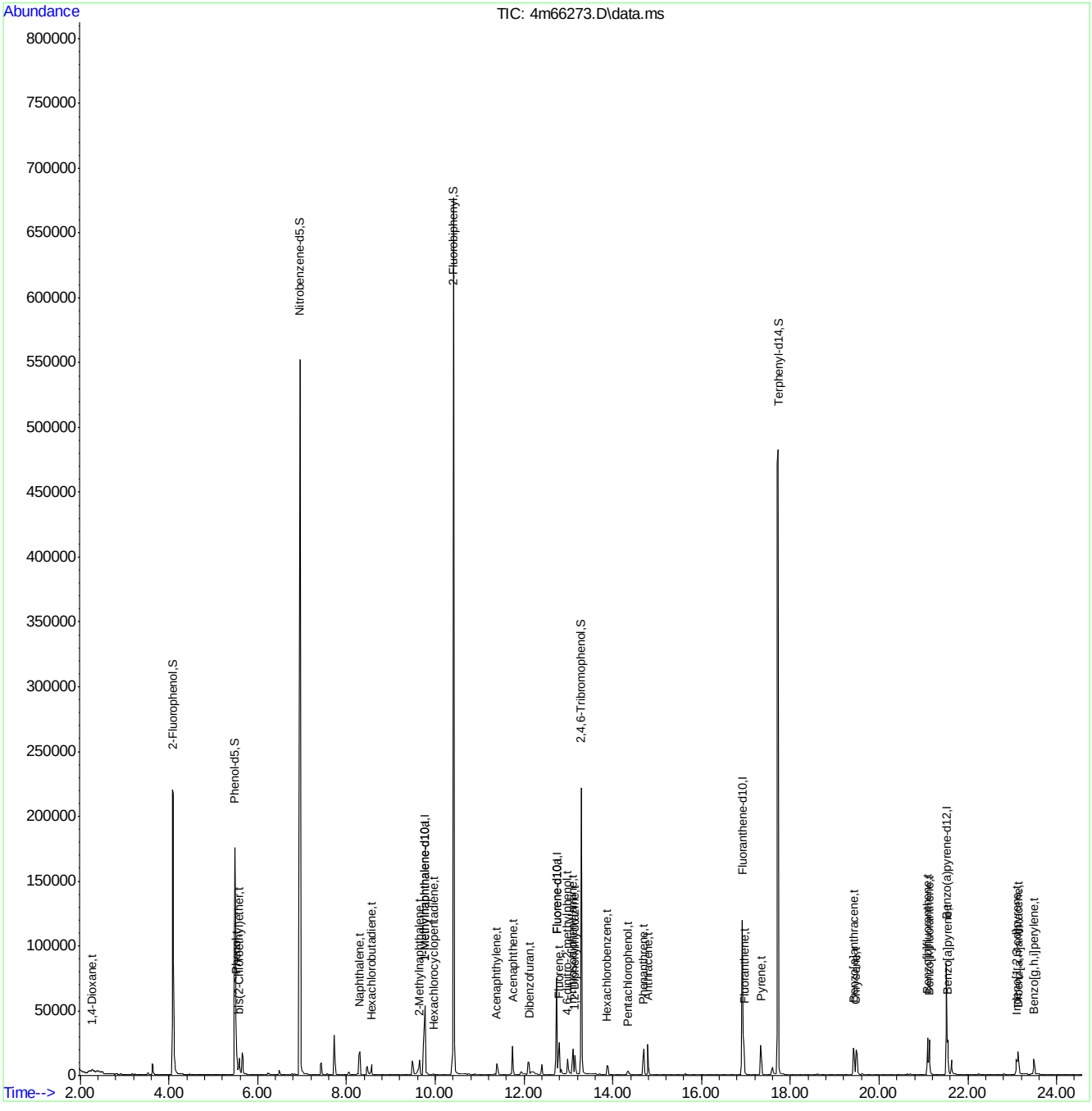
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66273.D
Acq On : 22 Jun 2016 10:13 pm
Operator : linseyk
Sample : op94835a-bs12
Misc : op94835a,e4m2978,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 23 09:04:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Manual Integrations
APPROVED
(compounds with "m" flag)
Nina Pandya
06/28/16 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66391.D
Acq On : 27 Jun 2016 7:05 pm
Operator : linseyk
Sample : op94859a-bs12
Misc : op94859a,e4m2984,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 12:50:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.715	152	34732	4.00	ppm	-0.07
12) Fluorene-d10	12.696	176	40623	4.00	ppm	-0.07
22) Fluoranthene-d10	16.883	212	87935	4.00	ppm	-0.06
28) Benzo(a)pyrene-d12	21.478	264	73321	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.715	152	34732	4.00	ppm	-0.07
38) Fluorene-d10a	12.696	176	40623	4.00	ppm	-0.07
System Monitoring Compounds						
2) 2-Fluorophenol	4.069	112	146845	26.53	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 53.06%			
3) Phenol-d5	5.470	99	152734	17.50	ppm	-0.01
Spiked Amount 50.000			Recovery = 35.00%			
6) Nitrobenzene-d5	6.906	82	310761	40.03	ppm	-0.06
Spiked Amount 50.000			Recovery = 80.06%			
11) 2-Fluorobiphenyl	10.359	172	514485	36.80	ppm	-0.07
Spiked Amount 50.000			Recovery = 73.60%			
17) 2,4,6-Tribromophenol	13.242	330	110182	58.20	ppm	-0.07
Spiked Amount 50.000			Recovery = 116.40%			
25) Terphenyl-d14	17.673	244	582929	46.94	ppm	-0.08
Spiked Amount 50.000			Recovery = 93.88%			
Target Compounds						Qvalue
4) Phenol	5.497	94	19025	2.01	ppm	82
5) bis(2-Chloroethyl)ether	5.552	93	5504	0.83	ppm #	68
7) Naphthalene	8.252	128	18339	0.76	ppm	96
8) Hexachlorobutadiene	8.515	225	3081	0.75	ppm	88
9) 2-Methylnaphthalene	9.595	142	8605	0.75	ppm	94
13) Acenaphthylene	11.361	152	10759	1.00	ppm	86
14) Acenaphthene	11.697	153	8837	1.32	ppm	91
15) Dibenzofuran	12.075	168	11280	1.04	ppm	100
16) Fluorene	12.740	166	13016	1.08	ppm	99
18) Hexachlorobenzene	13.832	284	4527	1.13	ppm	100
19) Pentachlorophenol	14.284	266	7352	4.97	ppm	98
20) Phenanthrene	14.642	178	19305	1.19	ppm	98
21) Anthracene	14.755	178	16297	1.09	ppm	98
23) Fluoranthene	16.901	202	21051	0.82	ppm	94
24) Pyrene	17.297	202	21431	0.86	ppm	92
26) Benzo[a]anthracene	19.387	228	17657	0.81	ppm	93
27) Chrysene	19.443	228	17560	0.78	ppm	88
29) Benzo[b]fluoranthene	21.052	252	15976	0.63	ppm	95
30) Benzo[k]fluoranthene	21.093	252	17631	0.72	ppm	98
31) Benzo[a]pyrene	21.506	252	14714	0.64	ppm	97
32) Indeno[1,2,3-cd]pyrene	23.048	276	15945	0.59	ppm	95
33) Dibenz[a,h]anthracene	23.076	278	12806	0.57	ppm #	68
34) Benzo[g,h,i]perylene	23.434	276	13535	0.58	ppm	97
36) 1,4-Dioxane	2.247	88	918m	0.33	ppm	
39) 4,6-dinitro-2-methylph...	12.955	198	8315	4.31	ppm	74
40) 1,2-Diphenylhydrazine	13.098	77	12882	1.15	ppm	97
41) n-nitrosodiphenylamine	13.051	169	7757	0.97	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66391.D
Acq On : 27 Jun 2016 7:05 pm
Operator : linseyk
Sample : op94859a-bs12
Misc : op94859a,e4m2984,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 12:50:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

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

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

7.3.4

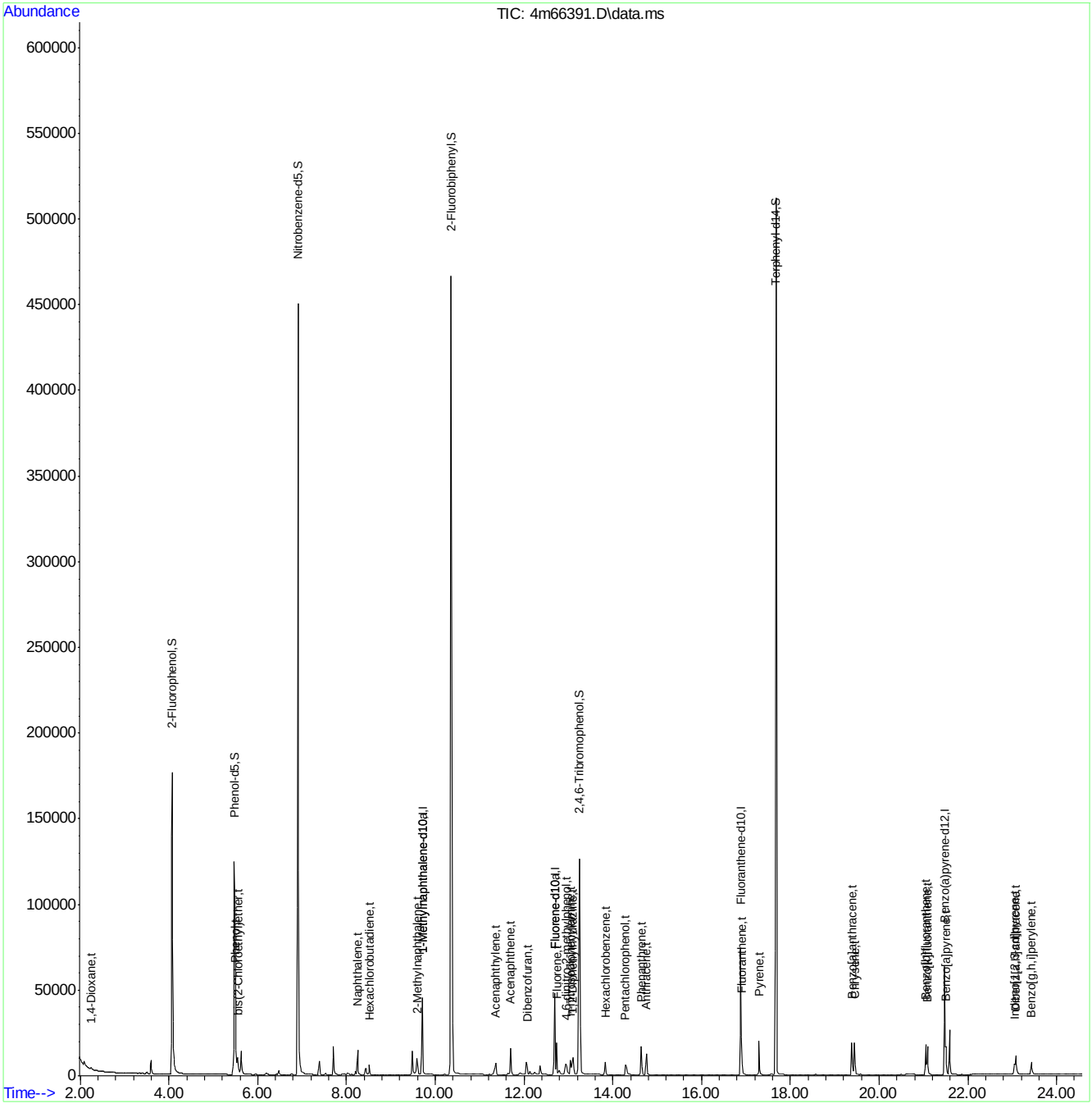
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66391.D
Acq On : 27 Jun 2016 7:05 pm
Operator : linseyk
Sample : op94859a-bs12
Misc : op94859a,e4m2984,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 28 12:50:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration



Manual Integration Approval Summary

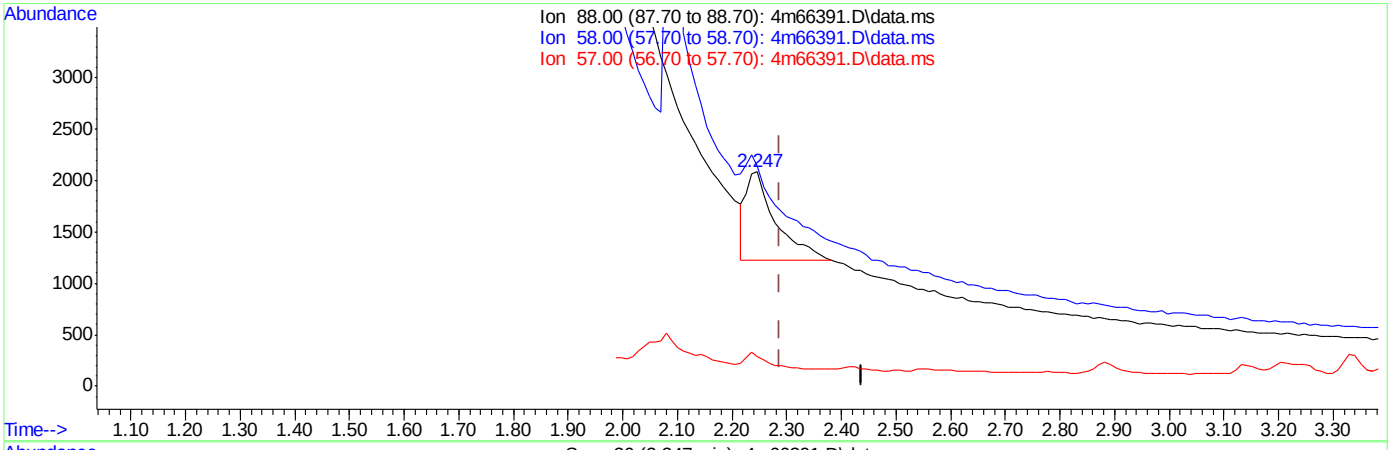
Sample Number:	OP94859A-BS12	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M66391.D	**Analyst approved:**	06/28/16 12:51 Linsey Kirschmann
Injection Time:	06/27/16 19:05	**Supervisor approved:**	06/28/16 16:55 Nina Pandya

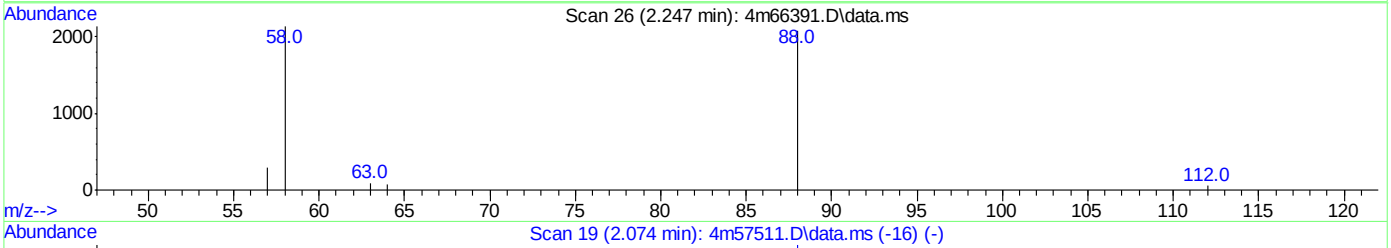
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.25	Poor instrument integration

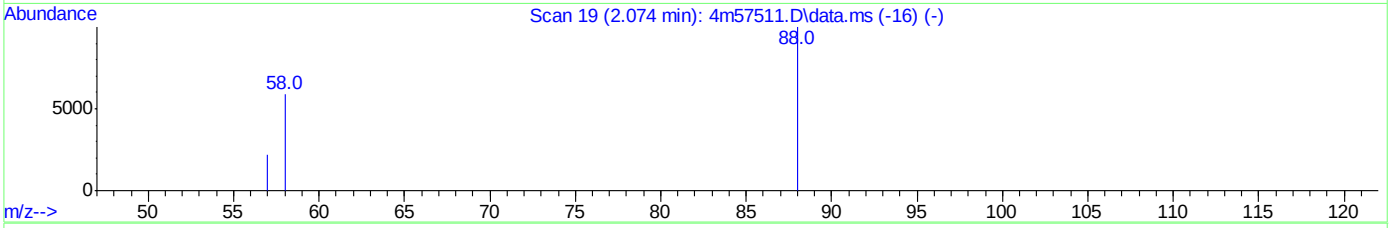
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66391.D
Acq On : 27 Jun 2016 7:05 pm
Operator : linseyk
Sample : op94859a-bs12
Misc : op94859a,e4m2984,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 19:30:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration







TIC: 4m66391.D\data.ms

(36) 1,4-Dioxane (t)

2.247min (-0.041) 1.41ppm

response 3243

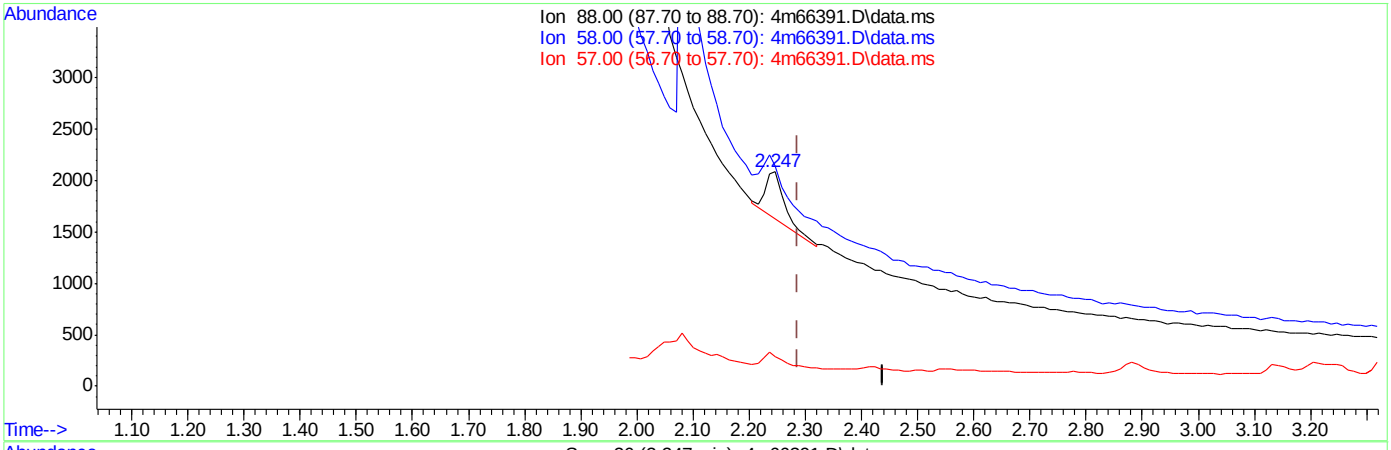
Ion	Exp%	Act%
88.00	100	100
58.00	81.90	67.75
57.00	23.30	16.55
0.00	0.00	0.00

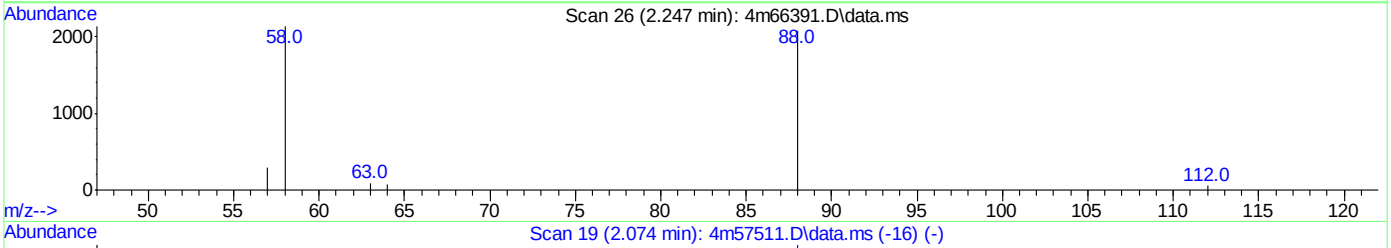
SGS ACCUTEST JC22206

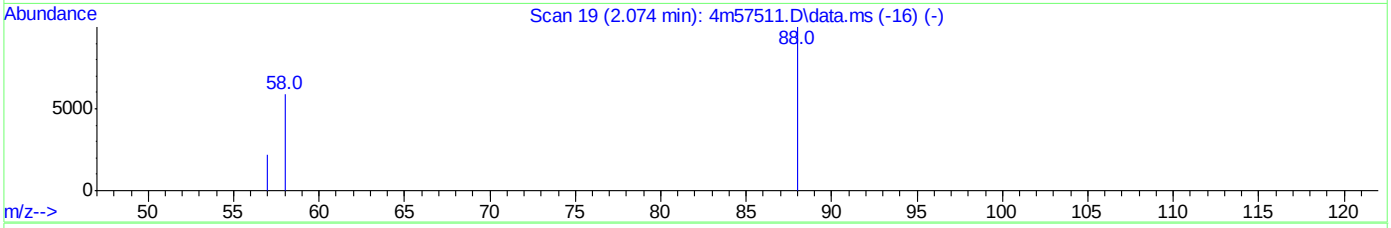
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66391.D
Acq On : 27 Jun 2016 7:05 pm
Operator : linseyk
Sample : op94859a-bs12
Misc : op94859a,e4m2984,1000
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 27 19:30:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration







TIC: 4m66391.D\data.ms

(36) 1,4-Dioxane (t)

2.247min (-0.041) 0.33ppm m

response 918

Ion	Exp%	Act%
88.00	100	100
58.00	81.90	102.54#
57.00	23.30	14.07
0.00	0.00	0.00

SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Michelle Freeman 06/24/16 15:26

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158171.D Vial: 21
Acq On : 21 Jun 2016 7:41 pm Operator: brittanp
Sample : op94835-ms Inst : MSF
Misc : op94835,ef6659,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 09:52:00 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	198607	40.00	ppm	-0.02
24) Naphthalene-d8	5.69	136	899068	40.00	ppm	0.03
47) Acenaphthene-d10	7.13	164	489144	40.00	ppm	-0.03
69) Phenanthrene-d10	9.04	188	756911	40.00	ppm	-0.04
83) Chrysene-d12	14.33	240	652655	40.00	ppm	-0.05
92) Perylene-d12	17.38	264	606097	40.00	ppm	0.02
102) 1,4-Dichlorobenzene-d4b	4.76	152	198607	40.00	ppm	-0.02
104) Naphthalene-d8b	5.69	136	899068	40.00	ppm	-0.02
106) Acenaphthene-d10b	7.13	164	489144	40.00	ppm	-0.03
108) Phenanthrene-d10b	9.04	188	756911	40.00	ppm	-0.04
110) Chrysene-d12b	14.33	240	652655	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.78	112	198692	26.87	ppm	-0.11
Spiked Amount 50.000			Recovery = 53.74%			
8) Phenol-d5	4.50	99	174688	18.25	ppm	0.00
Spiked Amount 50.000			Recovery = 36.50%			
25) Nitrobenzene-d5	5.17	82	279142	31.04	ppm	0.00
Spiked Amount 50.000			Recovery = 62.08%			
51) 2-Fluorobiphenyl	6.50	172	567419	36.87	ppm	-0.02
Spiked Amount 50.000			Recovery = 73.74%			
73) 2,4,6-Tribromophenol	8.04	330	64133	46.90	ppm	-0.03
Spiked Amount 50.000			Recovery = 93.80%			
85) Terphenyl-d14	12.11	244	551088	42.38	ppm	-0.07
Spiked Amount 50.000			Recovery = 84.76%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	99930	27.41	ppm	91
3) Pyridine	2.67	79	123216	13.77	ppm	93
4) N-Nitrosodimethylamine	2.62	42	41875	18.63	ppm	93
6) Indene	4.95	116	486993	35.04	ppm	99
7) Cumene	4.17	105	669389	35.38	ppm	97
9) Phenol	4.50	94	200618	18.57	ppm	97
10) Aniline	4.52	93	322843	24.68	ppm	76
11) bis(2-Chloroethyl)ether	4.57	93	250615	31.47	ppm	92
12) 2-Chlorophenol	4.61	128	263389	33.38	ppm	92
13) Decane	4.64	43	123530	20.11	ppm	89
14) 1,3-Dichlorobenzene	4.72	146	255279	29.49	ppm	80
15) 1,4-Dichlorobenzene	4.78	146	262865	29.85	ppm	97
16) Benzyl alcohol	4.87	108	171147	33.07	ppm	90
17) 1,2-Dichlorobenzene	4.88	146	256293	31.06	ppm	99
18) Acetophenone	5.06	105	390928	35.09	ppm	79
19) 2-Methylphenol	4.95	108	226042	30.28	ppm	98
20) 2,2'-oxybis(1-Chloropropan	4.96	121	81959	31.09	ppm #	61
21) 3&4-Methylphenol	5.06	108	222914	28.37	ppm	96
22) n-Nitroso-di-n-propylamine	5.06	70	152445	25.95	ppm #	91
23) Hexachloroethane	5.13	201	75996	32.16	ppm	89
26) Nitrobenzene	5.18	77	262816	26.65	ppm	90
27) Quinoline	5.95	129	697219	39.42	ppm	98
28) Isophorone	5.35	82	481271	29.05	ppm	100

(#) = qualifier out of range (m) = manual integration
F158171.D MF6644.M Thu Jun 23 09:53:28 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158171.D Vial: 21
Acq On : 21 Jun 2016 7:41 pm Operator: brittanp
Sample : op94835-ms Inst : MSF
Misc : op94835,ef6659,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 09:52:00 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.41	139	146684	37.79	ppm		83
30)	2,4-Dimethylphenol	5.44	107	256449	30.53	ppm		100
31)	Benzoic acid	5.52	105	128800	21.99	ppm		94
32)	bis(2-Chloroethoxy)methane	5.51	93	304742	29.15	ppm		99
33)	2,4-Dichlorophenol	5.59	162	223404	35.79	ppm		98
34)	2,6-Dichlorophenol	5.75	162	211013	33.90	ppm		99
36)	1,2,4-Trichlorobenzene	5.65	180	208275	29.96	ppm		97
38)	Naphthalene	5.71	128	753819	28.89	ppm		99
39)	4-Chloroaniline	5.74	127	281136	26.52	ppm		94
40)	2,3-Dichloroaniline	6.44	161	287997	36.13	ppm		98
41)	Caprolactam	6.00	55	30227	10.47	ppm		92
42)	Hexachlorobutadiene	5.79	225	99525	31.99	ppm		99
43)	4-Chloro-3-methylphenol	6.09	107	245829	34.29	ppm		100
44)	2-Methylnaphthalene	6.21	141	442793	32.06	ppm		99
45)	1-Methylnaphthalene	6.29	141	505832	34.68	ppm		99
46)	Dimethylnaphthalene	6.73	156	526573	36.88	ppm		98
48)	Hexachlorocyclopentadiene	6.33	237	211240	70.14	ppm		98
49)	2,4,6-Trichlorophenol	6.43	196	147423	40.94	ppm		99
50)	2,4,5-Trichlorophenol	6.46	196	154652	37.84	ppm		96
52)	2-Chloronaphthalene	6.61	162	484589	33.93	ppm		98
53)	Biphenyl	6.59	154	702141	37.30	ppm		99
54)	2-Nitroaniline	6.70	65	135342	33.77	ppm	#	74
55)	Dimethylphthalate	6.85	163	572089	36.70	ppm		99
56)	Acenaphthylene	6.99	152	795659	34.74	ppm		99
57)	2,6-Dinitrotoluene	6.92	165	133771	43.35	ppm		90
58)	3-Nitroaniline	7.08	138	141574	35.75	ppm		89
59)	Acenaphthene	7.16	153	515038	34.99	ppm		97
60)	2,4-Dinitrophenol	7.19	184	137464	79.46	ppm		74
61)	4-Nitrophenol	7.26	109	57201	29.40	ppm		89
62)	Dibenzofuran	7.34	168	705333	35.50	ppm		97
63)	2,4-Dinitrotoluene	7.32	165	184346	43.88	ppm		85
64)	2,3,4,6-Tetrachlorophenol	7.47	232	119911	43.52	ppm		98
65)	Diethylphthalate	7.60	149	559404	37.49	ppm		97
66)	Fluorene	7.73	166	575524	37.21	ppm		100
67)	4-Chlorophenyl-phenylether	7.73	204	241455	37.67	ppm		99
68)	4-Nitroaniline	7.76	138	174529	42.47	ppm		96
70)	4,6-Dinitro-2-methylphenol	7.79	198	91951	35.72	ppm		97
71)	n-Nitrosodiphenylamine	7.88	169	399332	38.24	ppm		97
72)	1,2-Diphenylhydrazine	7.93	77	545604	29.54	ppm		96
74)	4-Bromophenyl-phenylether	8.38	248	135196	40.24	ppm		96
75)	Hexachlorobenzene	8.45	284	132187	37.17	ppm		97
76)	Pentachlorophenol	8.75	266	89417	44.01	ppm		98
77)	Phenanthrene	9.08	178	826236	35.72	ppm		99
78)	Anthracene	9.16	178	816511	36.42	ppm		100
79)	Carbazole	9.44	167	808260	38.51	ppm		100
80)	Di-n-butylphthalate	10.15	149	962868	41.26	ppm		100
81)	Fluoranthene	11.23	202	820572	39.94	ppm		95
82)	Octadecane	8.92	57	266790	31.43	ppm		97
84)	Pyrene	11.68	202	856164	37.21	ppm		92

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158171.D Vial: 21
Acq On : 21 Jun 2016 7:41 pm Operator: brittanp
Sample : op94835-ms Inst : MSF
Misc : op94835,ef6659,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 09:52:00 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86)	Butylbenzylphthalate	13.29	149	422846	41.82 ppm	96
88)	Benzo[a]anthracene	14.31	228	735051	38.66 ppm	100
89)	3,3'-Dichlorobenzidine	14.36	252	456140	71.02 ppm	98
90)	Chrysene	14.39	228	724795	35.59 ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.69	149	590313	37.59 ppm	99
93)	Di-n-octylphthalate	16.14	149	997552	38.58 ppm	99
94)	Benzo[b]fluoranthene	16.63	252	724294	38.94 ppm	99
95)	Benzo[k]fluoranthene	16.68	252	722802m	38.49 ppm	
96)	Benzo[a]pyrene	17.26	252	653226	40.92 ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.32	276	599841	40.99 ppm	98
99)	Dibenz[a,h]anthracene	19.38	278	590848	39.29 ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.65	256	377018	45.91 ppm	99
101)	Benzo[g,h,i]perylene	19.75	276	638287	38.11 ppm	99
103)	Benzaldehyde	4.44	105	213234	39.15 ppm	92
107)	1,2,4,5-Tetrachlorobenzene	6.34	216	205982	40.14 ppm	99
109)	Atrazine	8.64	200	169963	59.78 ppm	98
111)	Benzidine	11.58	184	178233	24.10 ppm	97

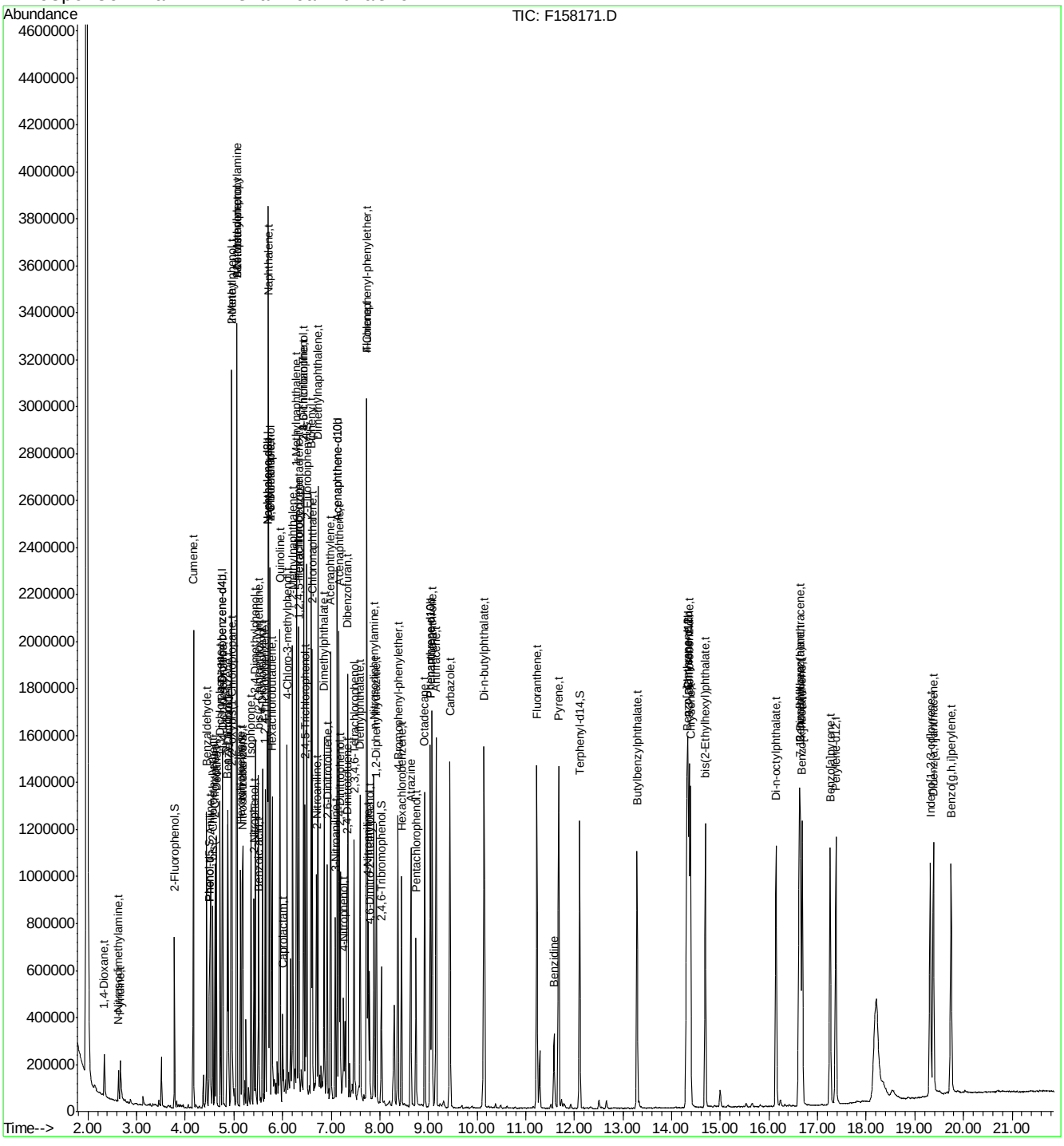
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158171.D Vial: 21
Acq On : 21 Jun 2016 7:41 pm Operator: brittanp
Sample : op94835-ms Inst : MSF
Misc : op94835,ef6659,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 9:53 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

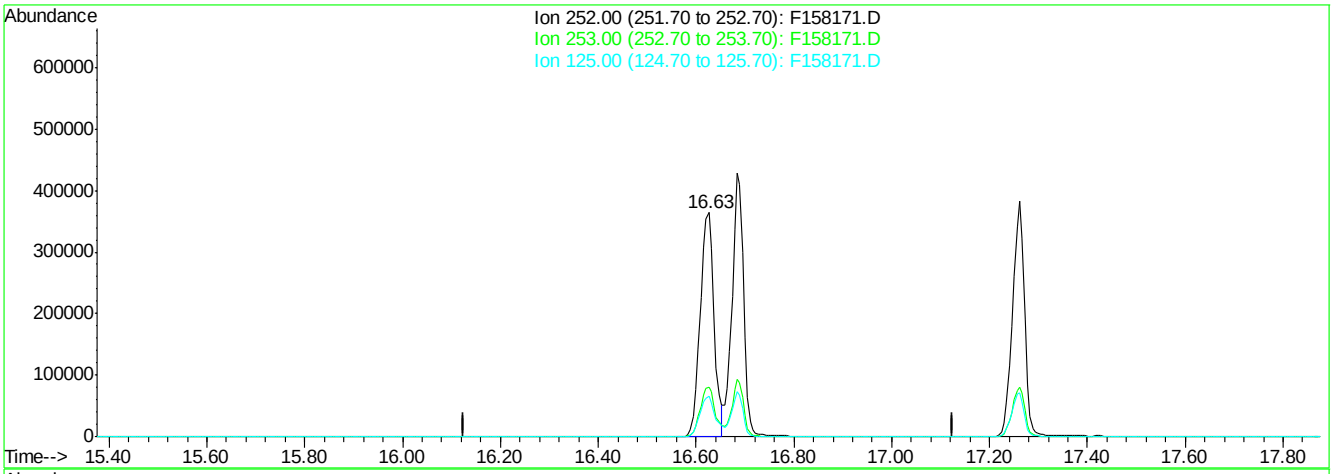
Sample Number:	OP94835-MS	**Method:**	SW846 8270D
Lab FileID:	F158171.D	**Analyst approved:**	06/23/16 10:04 Kristi Schollenberger
Injection Time:	06/21/16 19:41	**Supervisor approved:**	06/24/16 15:26 Michelle Freeman

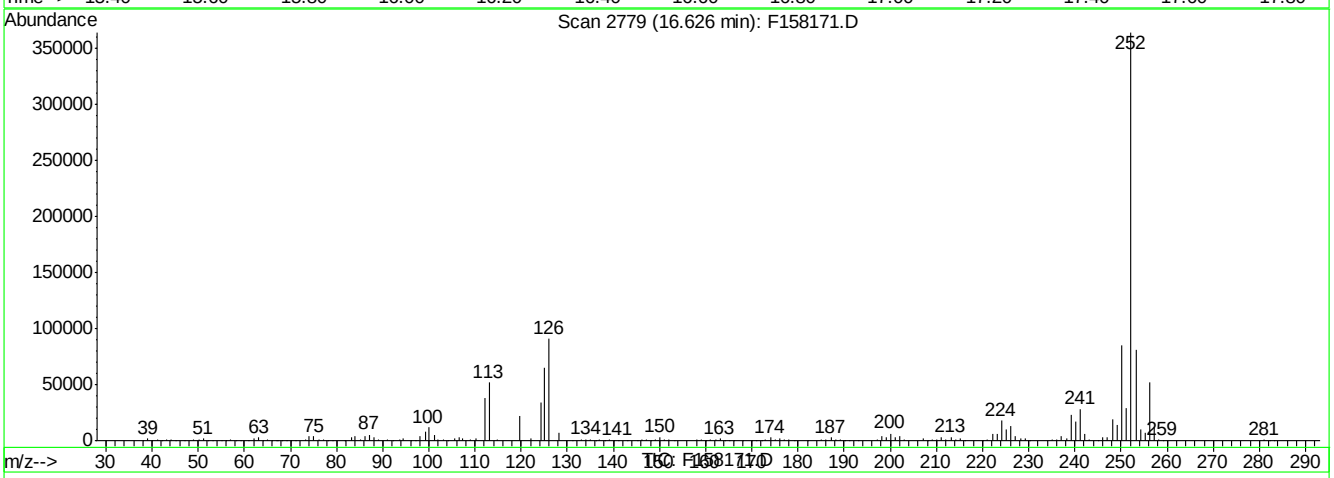
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		16.68	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158171.D Vial: 21
Acq On : 21 Jun 2016 7:41 pm Operator: brittanp
Sample : op94835-ms Inst : MSF
Misc : op94835,ef6659,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 9:52 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Multiple Level Calibration





(95) Benzo[k]fluoranthene (t)

16.63min 38.57ppm

response 724294

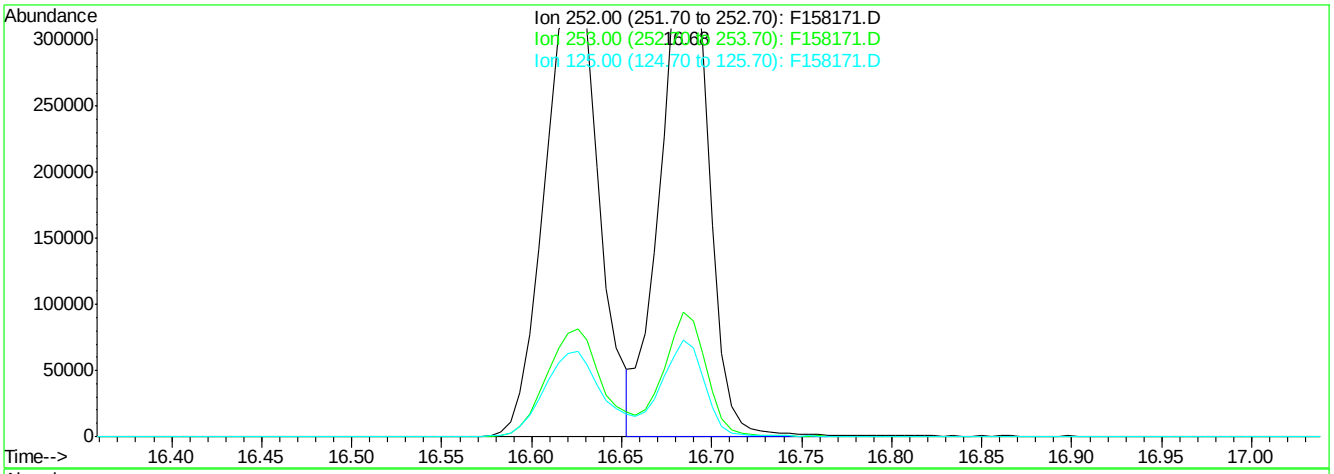
Ion	Exp%	Act%
252.00	100	100
253.00	22.40	21.20
125.00	16.90	16.56
0.00	0.00	0.00

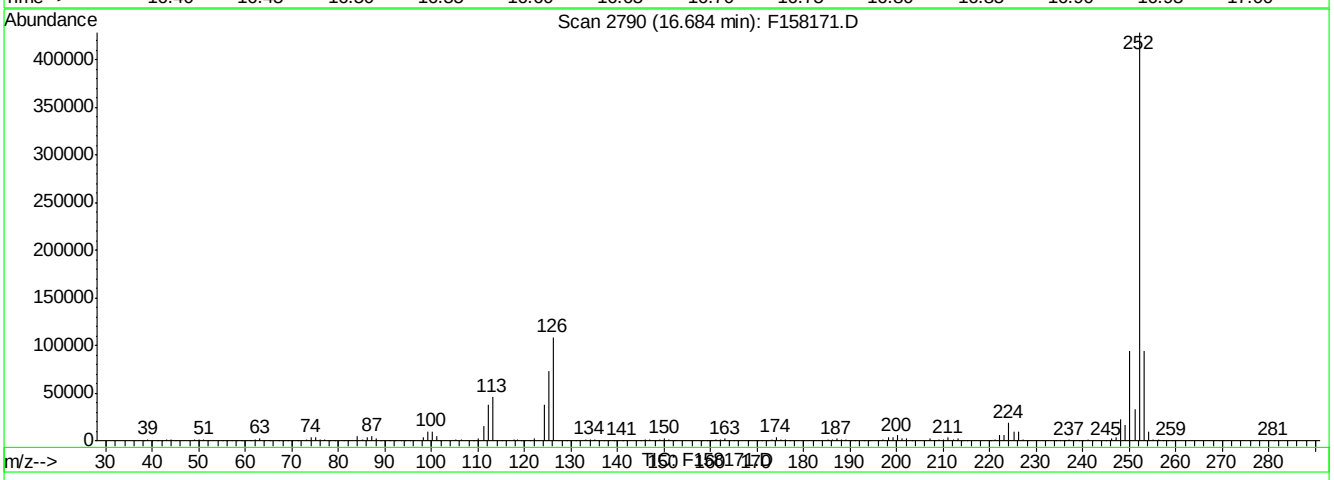
F158171.D MF6644.M Thu Jun 23 09:53:03 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158171.D Vial: 21
Acq On : 21 Jun 2016 7:41 pm Operator: brittanp
Sample : op94835-ms Inst : MSF
Misc : op94835,ef6659,960,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 9:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Multiple Level Calibration





(95) Benzo[k]fluoranthene (t)

16.68min 38.49ppm m

response 722802

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	21.92
125.00	16.90	17.07
0.00	0.00	0.00

F158171.D MF6644.M Thu Jun 23 09:53:09 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158172.D Vial: 22
Acq On : 21 Jun 2016 8:10 pm Operator: brittanp
Sample : op94835-msd Inst : MSF
Misc : op94835,ef6659,990,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 09:53:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 09:53:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	182141	40.00	ppm	0.00
24) Naphthalene-d8	5.69	136	823279	40.00	ppm	0.00
47) Acenaphthene-d10	7.13	164	440372	40.00	ppm	0.00
69) Phenanthrene-d10	9.04	188	693922	40.00	ppm	0.00
83) Chrysene-d12	14.33	240	609118	40.00	ppm	0.00
92) Perylene-d12	17.38	264	559153	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.76	152	182141	40.00	ppm	0.00
104) Naphthalene-d8b	5.69	136	823279	40.00	ppm	0.00
106) Acenaphthene-d10b	7.13	164	440372	40.00	ppm	0.00
108) Phenanthrene-d10b	9.04	188	693922	40.00	ppm	0.00
110) Chrysene-d12b	14.33	240	609118	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.78	112	179425	26.45	ppm	0.00
Spiked Amount 50.000			Recovery = 52.90%			
8) Phenol-d5	4.49	99	161439	18.39	ppm	0.00
Spiked Amount 50.000			Recovery = 36.78%			
25) Nitrobenzene-d5	5.17	82	268269	32.57	ppm	0.00
Spiked Amount 50.000			Recovery = 65.14%			
51) 2-Fluorobiphenyl	6.50	172	576799	41.63	ppm	0.00
Spiked Amount 50.000			Recovery = 83.26%			
73) 2,4,6-Tribromophenol	8.04	330	64983	51.83	ppm	0.00
Spiked Amount 50.000			Recovery = 103.66%			
85) Terphenyl-d14	12.11	244	561002	46.23	ppm	0.00
Spiked Amount 50.000			Recovery = 92.46%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	83965	25.11	ppm	98
3) Pyridine	2.67	79	100042	12.19	ppm	98
4) N-Nitrosodimethylamine	2.62	42	37059	17.98	ppm	95
6) Indene	4.95	116	460699	36.15	ppm	98
7) Cumene	4.17	105	608931	35.09	ppm	99
9) Phenol	4.50	94	182439	18.41	ppm	99
10) Aniline	4.52	93	258470	21.55	ppm	98
11) bis(2-Chloroethyl)ether	4.57	93	238677	32.68	ppm	99
12) 2-Chlorophenol	4.61	128	249197	34.44	ppm	99
13) Decane	4.64	43	109400	19.42	ppm	98
14) 1,3-Dichlorobenzene	4.72	146	233170	29.37	ppm	99
15) 1,4-Dichlorobenzene	4.78	146	243405	30.14	ppm	99
16) Benzyl alcohol	4.87	108	159424	33.59	ppm	99
17) 1,2-Dichlorobenzene	4.88	146	236718	31.28	ppm	98
18) Acetophenone	5.05	105	383122	37.50	ppm	97
19) 2-Methylphenol	4.95	108	215296	31.45	ppm	99
20) 2,2'-oxybis(1-Chloropropan	4.96	121	77187	31.93	ppm	90
21) 3&4-Methylphenol	5.06	108	214589	29.78	ppm	98
22) n-Nitroso-di-n-propylamine	5.05	70	148101	27.49	ppm	94
23) Hexachloroethane	5.13	201	68128	31.44	ppm	97
26) Nitrobenzene	5.18	77	255978	28.34	ppm	98
27) Quinoline	5.95	129	643431	39.73	ppm	100
28) Isophorone	5.35	82	485985	32.03	ppm	99

(#) = qualifier out of range (m) = manual integration
F158172.D MF6644.M Thu Jun 23 09:55:02 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158172.D Vial: 22
Acq On : 21 Jun 2016 8:10 pm Operator: brittanp
Sample : op94835-msd Inst : MSF
Misc : op94835,ef6659,990,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 09:53:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 09:53:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.41	139	141875	39.92	ppm	99
30) 2,4-Dimethylphenol	5.44	107	267755	34.81	ppm	98
31) Benzoic acid	5.52	105	123655	23.06	ppm	98
32) bis(2-Chloroethoxy)methane	5.51	93	299268	31.26	ppm	99
33) 2,4-Dichlorophenol	5.59	162	219350	38.38	ppm	99
34) 2,6-Dichlorophenol	5.75	162	210119	36.87	ppm	98
36) 1,2,4-Trichlorobenzene	5.65	180	200123	31.44	ppm	99
38) Naphthalene	5.71	128	736118	30.81	ppm	100
39) 4-Chloroaniline	5.74	127	257242	26.50	ppm	99
40) 2,3-Dichloroaniline	6.44	161	296395	40.61	ppm	100
41) Caprolactam	6.00	55	27596	10.44	ppm	97
42) Hexachlorobutadiene	5.79	225	93374	32.77	ppm	99
43) 4-Chloro-3-methylphenol	6.09	107	252641	38.49	ppm	99
44) 2-Methylnaphthalene	6.21	141	438387	34.67	ppm	100
45) 1-Methylnaphthalene	6.29	141	504052	37.74	ppm	100
46) Dimethylnaphthalene	6.73	156	538153	41.16	ppm	99
48) Hexachlorocyclopentadiene	6.33	237	210827	77.75	ppm	100
49) 2,4,6-Trichlorophenol	6.43	196	150487	46.42	ppm	99
50) 2,4,5-Trichlorophenol	6.47	196	160054	43.50	ppm	98
52) 2-Chloronaphthalene	6.61	162	498214	38.75	ppm	98
53) Biphenyl	6.59	154	720622	42.52	ppm	100
54) 2-Nitroaniline	6.70	65	140330	38.90	ppm	97
55) Dimethylphthalate	6.85	163	584747	41.67	ppm	99
56) Acenaphthylene	6.99	152	822117	39.87	ppm	100
57) 2,6-Dinitrotoluene	6.92	165	136710	49.21	ppm	99
58) 3-Nitroaniline	7.08	138	137382	38.54	ppm	99
59) Acenaphthene	7.16	153	528153	39.86	ppm	100
60) 2,4-Dinitrophenol	7.19	184	152366	96.20	ppm	97
61) 4-Nitrophenol	7.26	109	56807	32.43	ppm	96
62) Dibenzofuran	7.34	168	730947	40.87	ppm	99
63) 2,4-Dinitrotoluene	7.32	165	191784	50.70	ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.47	232	125676	50.67	ppm	98
65) Diethylphthalate	7.60	149	582884	43.39	ppm	100
66) Fluorene	7.74	166	591555	42.48	ppm	100
67) 4-Chlorophenyl-phenylether	7.73	204	247576	42.91	ppm	98
68) 4-Nitroaniline	7.76	138	178651	48.29	ppm	97
70) 4,6-Dinitro-2-methylphenol	7.79	198	102396	42.88	ppm	98
71) n-Nitrosodiphenylamine	7.88	169	415763	43.43	ppm	99
72) 1,2-Diphenylhydrazine	7.93	77	571379	33.74	ppm	100
74) 4-Bromophenyl-phenylether	8.38	248	137167	44.54	ppm	97
75) Hexachlorobenzene	8.45	284	136646	41.91	ppm	98
76) Pentachlorophenol	8.75	266	96649	51.89	ppm	97
77) Phenanthrene	9.08	178	861409	40.62	ppm	99
78) Anthracene	9.16	178	851744	41.44	ppm	100
79) Carbazole	9.44	167	852143	44.29	ppm	99
80) Di-n-butylphthalate	10.15	149	1012906	47.34	ppm	100
81) Fluoranthene	11.23	202	861878	45.76	ppm	99
82) Octadecane	8.92	57	267281	34.35	ppm	97
84) Pyrene	11.68	202	905236	42.15	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158172.D Vial: 22
Acq On : 21 Jun 2016 8:10 pm Operator: brittanp
Sample : op94835-msd Inst : MSF
Misc : op94835,ef6659,990,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 09:53:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 09:53:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.29	149	438753	46.49	ppm	98
88)	Benzo[a]anthracene	14.31	228	770887	43.45	ppm	99
89)	3,3'-Dichlorobenzidine	14.36	252	479666	80.02	ppm	100
90)	Chrysene	14.39	228	756653	39.81	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.69	149	607054	41.30	ppm	100
93)	Di-n-octylphthalate	16.15	149	1042191	43.53	ppm	99
94)	Benzo[b]fluoranthene	16.63	252	769818	44.86	ppm	99
95)	Benzo[k]fluoranthene	16.69	252	737508	42.57	ppm	97
96)	Benzo[a]pyrene	17.26	252	675882	45.89	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.32	276	594234	44.01	ppm	99
99)	Dibenz[a,h]anthracene	19.38	278	590943	42.60	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.65	256	386703	51.05	ppm	99
101)	Benzo[g,h,i]perylene	19.75	276	622344	40.27	ppm	99
103)	Benzaldehyde	4.44	105	198229	39.68	ppm	97
107)	1,2,4,5-Tetrachlorobenzene	6.34	216	203770	44.11	ppm	99
109)	Atrazine	8.64	200	179319	68.80	ppm	97
111)	Benzidine	11.58	184	158092	22.90	ppm	98

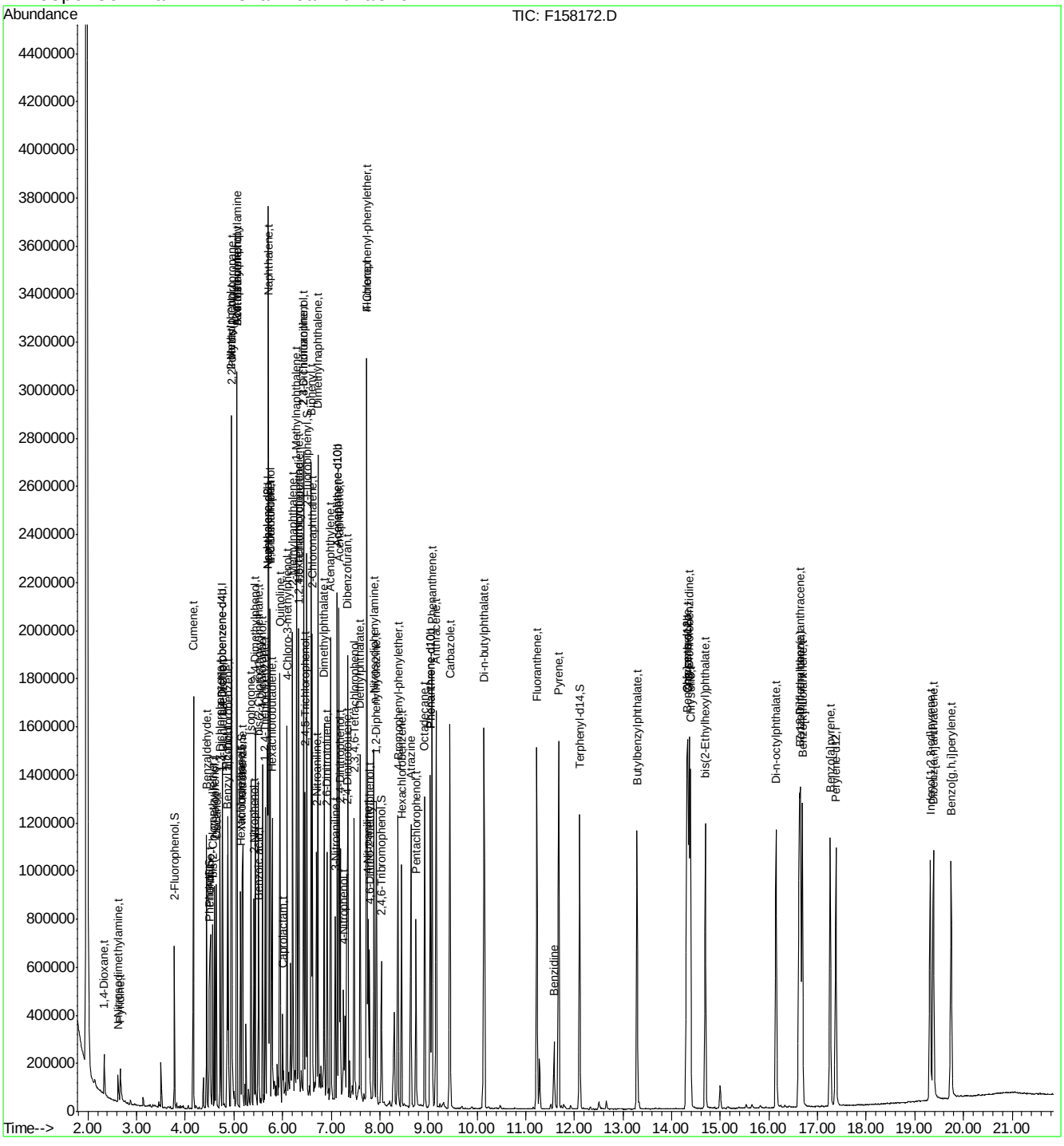
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158172.D Vial: 22
Acq On : 21 Jun 2016 8:10 pm Operator: brittanp
Sample : op94835-msd Inst : MSF
Misc : op94835,ef6659,990,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 9:54 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 09:53:41 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158417.D Vial: 24
Acq On : 28 Jun 2016 9:49 am Operator: brittanp
Sample : op94859-ms Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 10:11:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:51:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	219774	40.00	ppm	-0.03
24) Naphthalene-d8	5.59	136	1018798	40.00	ppm	-0.03
47) Acenaphthene-d10	7.00	164	524440	40.00	ppm	-0.03
69) Phenanthrene-d10	8.86	188	833693	40.00	ppm	-0.04
83) Chrysene-d12	14.12	240	716670	40.00	ppm	-0.06
92) Perylene-d12	17.16	264	661924	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4b	4.66	152	219774	40.00	ppm	-0.03
104) Naphthalene-d8b	5.59	136	1018798	40.00	ppm	-0.03
106) Acenaphthene-d10b	7.00	164	524440	40.00	ppm	-0.03
108) Phenanthrene-d10b	8.86	188	833693	40.00	ppm	-0.04
110) Chrysene-d12b	14.12	240	716670	40.00	ppm	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	3.69	112	246377	30.10	ppm	-0.04
Spiked Amount 50.000			Recovery = 60.20%			
8) Phenol-d5	4.41	99	224374	21.18	ppm	-0.03
Spiked Amount 50.000			Recovery = 42.36%			
25) Nitrobenzene-d5	5.07	82	409259	40.16	ppm	-0.03
Spiked Amount 50.000			Recovery = 80.32%			
51) 2-Fluorobiphenyl	6.39	172	723827	43.87	ppm	-0.02
Spiked Amount 50.000			Recovery = 87.74%			
73) 2,4,6-Tribromophenol	7.88	330	81981	54.43	ppm	-0.04
Spiked Amount 50.000			Recovery = 108.86%			
85) Terphenyl-d14	11.91	244	679910	47.62	ppm	-0.05
Spiked Amount 50.000			Recovery = 95.24%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.24	88	4414295	1094.16	ppm	95
3) Pyridine	2.55	79	214611	21.68	ppm	99
4) N-Nitrosodimethylamine	2.51	42	67479	27.14	ppm	93
6) Indene	4.85	116	648859	42.19	ppm	99
7) Cumene	4.07	105	764823	36.53	ppm	100
9) Phenol	4.42	94	259143	21.67	ppm	72
10) Aniline	4.42	93	328536	22.70	ppm	77
11) bis(2-Chloroethyl)ether	4.47	93	357451	40.57	ppm	98
12) 2-Chlorophenol	4.51	128	337586	38.66	ppm	95
13) Decane	4.54	43	207029	30.45	ppm	96
14) 1,3-Dichlorobenzene	4.62	146	323249	33.74	ppm	99
15) 1,4-Dichlorobenzene	4.68	146	333155	34.19	ppm	98
16) Benzyl alcohol	4.77	108	224010	39.12	ppm	97
17) 1,2-Dichlorobenzene	4.79	146	321456	35.21	ppm	98
18) Acetophenone	4.96	105	529655	42.97	ppm	98
19) 2-Methylphenol	4.86	108	289019	34.99	ppm	100
20) 2,2'-oxybis(1-Chloropropan	4.87	121	106771	36.60	ppm #	75
21) 3&4-Methylphenol	4.97	108	297138	34.18	ppm	99
22) n-Nitroso-di-n-propylamine	4.96	70	247637	38.10	ppm	98
23) Hexachloroethane	5.03	201	94078	35.98	ppm	91
26) Nitrobenzene	5.09	77	401083	35.89	ppm	98
27) Quinoline	5.85	129	840087	41.92	ppm	100
28) Isophorone	5.26	82	719734	38.34	ppm	98

(#) = qualifier out of range (m) = manual integration
F158417.D MF6644.M Thu Jun 30 12:46:31 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158417.D Vial: 24
Acq On : 28 Jun 2016 9:49 am Operator: brittanp
Sample : op94859-ms Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 10:11:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:51:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.32	139	191783	43.61	ppm	68
30) 2,4-Dimethylphenol	5.35	107	352943	37.07	ppm	98
31) Benzoic acid	5.42	105	109046	16.43	ppm	97
32) bis(2-Chloroethoxy)methane	5.41	93	440803	37.20	ppm	99
33) 2,4-Dichlorophenol	5.49	162	285690	40.39	ppm	99
34) 2,6-Dichlorophenol	5.65	162	276327	39.18	ppm	97
36) 1,2,4-Trichlorobenzene	5.55	180	259690	32.97	ppm	99
38) Naphthalene	5.60	128	943841	31.92	ppm	100
39) 4-Chloroaniline	5.65	127	218832	18.22	ppm	97
40) 2,3-Dichloroaniline	6.33	161	330410	36.58	ppm	98
41) Caprolactam	5.90	55	48677	14.88	ppm	97
42) Hexachlorobutadiene	5.68	225	116043	32.91	ppm	97
43) 4-Chloro-3-methylphenol	5.99	107	322723	39.73	ppm	99
44) 2-Methylnaphthalene	6.10	141	569320	36.38	ppm	99
45) 1-Methylnaphthalene	6.18	141	643241	38.92	ppm	98
46) Dimethylnaphthalene	6.61	156	659969	40.79	ppm	99
48) Hexachlorocyclopentadiene	6.22	237	271276	84.01	ppm	99
49) 2,4,6-Trichlorophenol	6.33	196	187642	48.60	ppm	99
50) 2,4,5-Trichlorophenol	6.36	196	201955	46.09	ppm	98
52) 2-Chloronaphthalene	6.49	162	622957	40.68	ppm	99
53) Biphenyl	6.47	154	898352	44.51	ppm	99
54) 2-Nitroaniline	6.58	65	216504	50.39	ppm	97
55) Dimethylphthalate	6.74	163	729011	43.62	ppm	99
56) Acenaphthylene	6.86	152	1010800	41.16	ppm	100
57) 2,6-Dinitrotoluene	6.80	165	174309	52.69	ppm	96
58) 3-Nitroaniline	6.96	138	121149	28.53	ppm	97
59) Acenaphthene	7.03	153	646681	40.98	ppm	100
60) 2,4-Dinitrophenol	7.06	184	223703	116.80	ppm	100
61) 4-Nitrophenol	7.14	109	67285	32.26	ppm	99
62) Dibenzofuran	7.21	168	904627	42.47	ppm	100
63) 2,4-Dinitrotoluene	7.19	165	235929	52.37	ppm	99
64) 2,3,4,6-Tetrachlorophenol	7.34	232	152642	51.67	ppm	96
65) Diethylphthalate	7.46	149	721554	45.10	ppm	99
66) Fluorene	7.59	166	706612	42.61	ppm	100
67) 4-Chlorophenyl-phenylether	7.59	204	295695	43.03	ppm	98
68) 4-Nitroaniline	7.62	138	219476	49.82	ppm	98
70) 4,6-Dinitro-2-methylphenol	7.65	198	139109	48.18	ppm	99
71) n-Nitrosodiphenylamine	7.74	169	514797	44.76	ppm	99
72) 1,2-Diphenylhydrazine	7.78	77	844922	41.53	ppm	99
74) 4-Bromophenyl-phenylether	8.22	248	169784	45.88	ppm	96
75) Hexachlorobenzene	8.29	284	168503	43.02	ppm	99
76) Pentachlorophenol	8.58	266	115020	51.40	ppm	99
77) Phenanthrene	8.90	178	1045888	41.05	ppm	99
78) Anthracene	8.98	178	1043740	42.27	ppm	99
79) Carbazole	9.26	167	1051797	45.50	ppm	99
80) Di-n-butylphthalate	9.96	149	1274369	49.58	ppm	100
81) Fluoranthene	11.03	202	1050179	46.41	ppm	98
82) Octadecane	8.76	57	377534	40.39	ppm	98
84) Pyrene	11.48	202	1099006	43.50	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158417.D Vial: 24
Acq On : 28 Jun 2016 9:49 am Operator: brittanp
Sample : op94859-ms Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 10:11:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:51:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.09	149	555348	50.01	ppm	96
88)	Benzo[a]anthracene	14.10	228	931929	44.64	ppm	100
89)	3,3'-Dichlorobenzidine	14.15	252	379436	53.80	ppm	98
90)	Chrysene	14.18	228	906195	40.52	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.49	149	759897	43.87	ppm	100
93)	Di-n-octylphthalate	15.95	149	1303852	45.94	ppm	99
94)	Benzo[b]fluoranthene	16.41	252	904185	44.51	ppm	100
95)	Benzo[k]fluoranthene	16.47	252	881771	43.00	ppm	99
96)	Benzo[a]pyrene	17.04	252	796713	45.70	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.09	276	688949	43.11	ppm	95
99)	Dibenz[a,h]anthracene	19.16	278	699865	42.61	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.43	256	403419	44.99	ppm	100
101)	Benzo[g,h,i]perylene	19.53	276	735630	40.21	ppm	99
103)	Benzaldehyde	4.34	105	261396	43.37	ppm	96
107)	1,2,4,5-Tetrachlorobenzene	6.23	216	249238	45.30	ppm	99
109)	Atrazine	8.48	200	211555	67.56	ppm	98
111)	Benzidine	11.39	184	205939	25.36	ppm	99

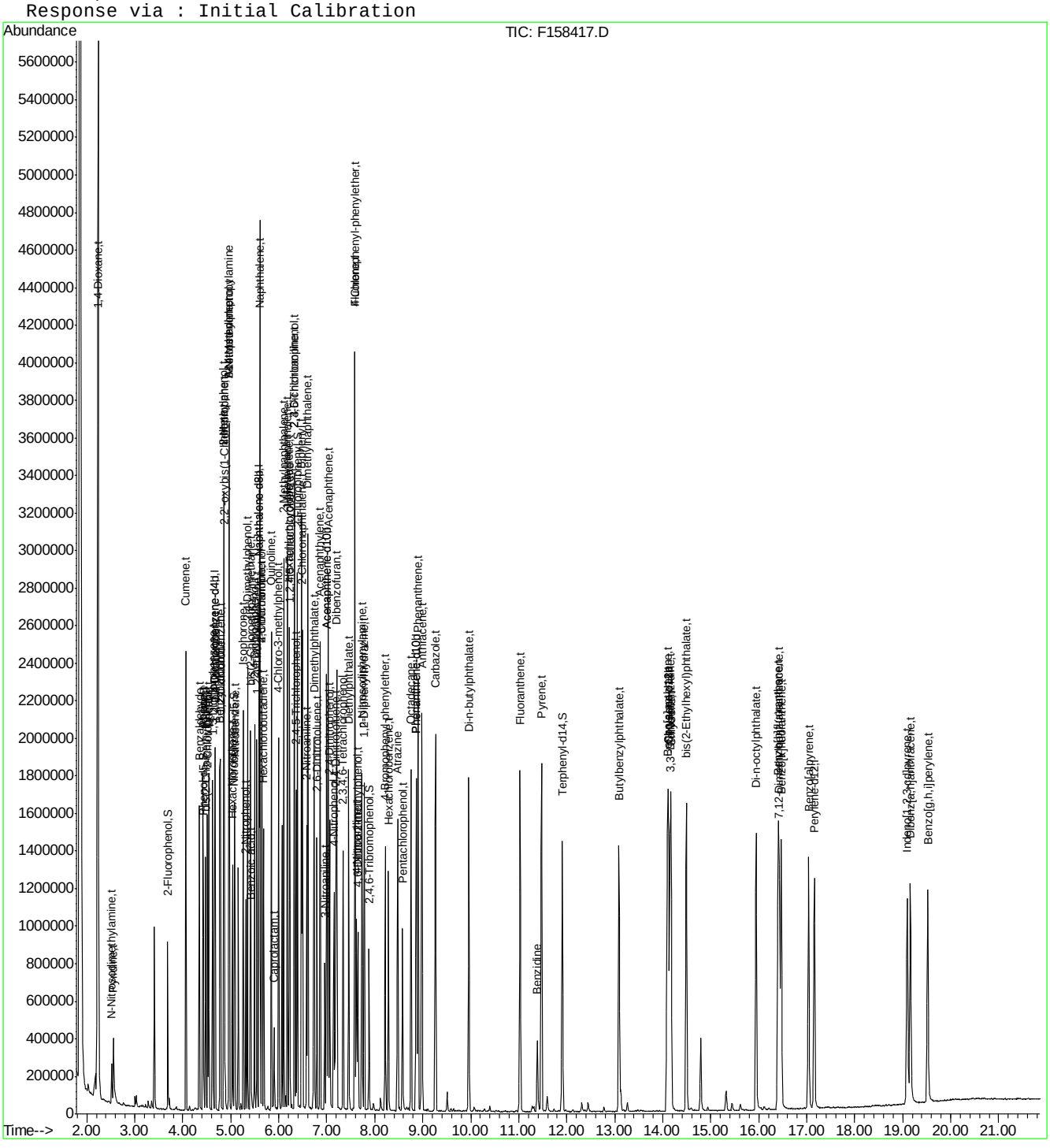
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158417.D Vial: 24
Acq On : 28 Jun 2016 9:49 am Operator: brittanp
Sample : op94859-ms Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 30 12:46 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 30 09:50:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158418.D Vial: 25
Acq On : 28 Jun 2016 10:18 am Operator: brittanp
Sample : op94859-msd Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 10:40:17 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:51:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	200884	40.00	ppm	-0.03
24) Naphthalene-d8	5.59	136	902623	40.00	ppm	-0.03
47) Acenaphthene-d10	7.00	164	479076	40.00	ppm	-0.03
69) Phenanthrene-d10	8.86	188	749278	40.00	ppm	-0.04
83) Chrysene-d12	14.12	240	644326	40.00	ppm	-0.06
92) Perylene-d12	17.15	264	592000	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.66	152	200884	40.00	ppm	-0.03
104) Naphthalene-d8b	5.59	136	902623	40.00	ppm	-0.03
106) Acenaphthene-d10b	7.00	164	479076	40.00	ppm	-0.03
108) Phenanthrene-d10b	8.86	188	749278	40.00	ppm	-0.04
110) Chrysene-d12b	14.12	240	644326	40.00	ppm	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	3.69	112	191788	25.64	ppm	-0.04
Spiked Amount 50.000			Recovery = 51.28%			
8) Phenol-d5	4.41	99	169422	17.50	ppm	-0.03
Spiked Amount 50.000			Recovery = 35.00%			
25) Nitrobenzene-d5	5.07	82	295770	32.76	ppm	-0.03
Spiked Amount 50.000			Recovery = 65.52%			
51) 2-Fluorobiphenyl	6.39	172	522973	34.69	ppm	-0.02
Spiked Amount 50.000			Recovery = 69.38%			
73) 2,4,6-Tribromophenol	7.88	330	57610	42.55	ppm	-0.04
Spiked Amount 50.000			Recovery = 85.10%			
85) Terphenyl-d14	11.90	244	473589	36.89	ppm	-0.06
Spiked Amount 50.000			Recovery = 73.78%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.24	88	3765815	1021.20	ppm		94
3) Pyridine	2.55	79	177823	19.65	ppm		99
4) N-Nitrosodimethylamine	2.52	42	50759	22.33	ppm		97
6) Indene	4.85	116	487505	34.68	ppm		100
7) Cumene	4.07	105	594619	31.07	ppm		100
9) Phenol	4.42	94	199719	18.27	ppm	#	51
10) Aniline	4.42	93	307031	23.21	ppm		69
11) bis(2-Chloroethyl)ether	4.47	93	263511	32.72	ppm		99
12) 2-Chlorophenol	4.51	128	250080	31.33	ppm		94
13) Decane	4.54	43	162884	26.21	ppm		95
14) 1,3-Dichlorobenzene	4.62	146	241774	27.61	ppm		100
15) 1,4-Dichlorobenzene	4.68	146	248811	27.94	ppm		99
16) Benzyl alcohol	4.77	108	164347	31.40	ppm		95
17) 1,2-Dichlorobenzene	4.79	146	243871	29.22	ppm		98
18) Acetophenone	4.96	105	392427	34.83	ppm		100
19) 2-Methylphenol	4.86	108	221612	29.35	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.87	121	77843	29.19	ppm	#	70
21) 3&4-Methylphenol	4.97	108	227786	28.67	ppm		99
22) n-Nitroso-di-n-propylamine	4.96	70	182435	30.71	ppm		95
23) Hexachloroethane	5.03	201	69823	29.22	ppm		94
26) Nitrobenzene	5.09	77	287953	29.08	ppm		99
27) Quinoline	5.85	129	598745	33.72	ppm		99
28) Isophorone	5.26	82	522627	31.42	ppm		97

(#) = qualifier out of range (m) = manual integration
F158418.D MF6644.M Thu Jun 30 12:47:47 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158418.D Vial: 25
Acq On : 28 Jun 2016 10:18 am Operator: brittanp
Sample : op94859-msd Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 10:40:17 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:51:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29)	2-Nitrophenol	5.32	139	137171	35.20	ppm	72
30)	2,4-Dimethylphenol	5.35	107	258171	30.61	ppm	98
31)	Benzoic acid	5.42	105	87388	14.86	ppm	97
32)	bis(2-Chloroethoxy)methane	5.41	93	321402	30.62	ppm	99
33)	2,4-Dichlorophenol	5.49	162	208693	33.30	ppm	98
34)	2,6-Dichlorophenol	5.65	162	201003	32.17	ppm	97
36)	1,2,4-Trichlorobenzene	5.55	180	194330	27.85	ppm	97
38)	Naphthalene	5.60	128	702842	26.83	ppm	100
39)	4-Chloroaniline	5.64	127	237169	22.28	ppm	98
40)	2,3-Dichloroaniline	6.33	161	262411	32.79	ppm	98
41)	Caprolactam	5.90	55	32833	11.33	ppm	98
42)	Hexachlorobutadiene	5.68	225	87454	28.00	ppm	99
43)	4-Chloro-3-methylphenol	5.99	107	227914	31.67	ppm	97
44)	2-Methylnaphthalene	6.10	141	415493	29.97	ppm	99
45)	1-Methylnaphthalene	6.18	141	469946	32.09	ppm	100
46)	Dimethylnaphthalene	6.60	156	478359	33.37	ppm	99
48)	Hexachlorocyclopentadiene	6.22	237	188973	64.06	ppm	99
49)	2,4,6-Trichlorophenol	6.33	196	133881	37.96	ppm	99
50)	2,4,5-Trichlorophenol	6.36	196	141699	35.40	ppm	99
52)	2-Chloronaphthalene	6.49	162	451924	32.31	ppm	98
53)	Biphenyl	6.47	154	651823	35.35	ppm	100
54)	2-Nitroaniline	6.58	65	153262	39.05	ppm	98
55)	Dimethylphthalate	6.73	163	512910	33.60	ppm	99
56)	Acenaphthylene	6.86	152	718725	32.04	ppm	99
57)	2,6-Dinitrotoluene	6.80	165	121322	40.15	ppm	98
58)	3-Nitroaniline	6.96	138	118582	30.57	ppm	98
59)	Acenaphthene	7.03	153	460832	31.97	ppm	100
60)	2,4-Dinitrophenol	7.06	184	148537	86.95	ppm	86
61)	4-Nitrophenol	7.14	109	47799	25.08	ppm	99
62)	Dibenzofuran	7.21	168	642381	33.02	ppm	99
63)	2,4-Dinitrotoluene	7.19	165	161432	39.23	ppm	96
64)	2,3,4,6-Tetrachlorophenol	7.34	232	107797	39.95	ppm	97
65)	Diethylphthalate	7.46	149	503693	34.46	ppm	99
66)	Fluorene	7.59	166	503489	33.24	ppm	99
67)	4-Chlorophenyl-phenylether	7.59	204	213563	34.02	ppm	99
68)	4-Nitroaniline	7.62	138	151243	37.58	ppm	98
70)	4,6-Dinitro-2-methylphenol	7.65	198	94117	36.86	ppm	96
71)	n-Nitrosodiphenylamine	7.73	169	356239	34.46	ppm	100
72)	1,2-Diphenylhydrazine	7.78	77	585712	32.03	ppm	99
74)	4-Bromophenyl-phenylether	8.22	248	118076	35.51	ppm	97
75)	Hexachlorobenzene	8.29	284	116753	33.16	ppm	96
76)	Pentachlorophenol	8.58	266	76192	37.88	ppm	98
77)	Phenanthrene	8.90	178	733880	32.05	ppm	99
78)	Anthracene	8.98	178	717398	32.33	ppm	99
79)	Carbazole	9.26	167	722516	34.78	ppm	99
80)	Di-n-butylphthalate	9.96	149	868529	37.59	ppm	100
81)	Fluoranthene	11.03	202	723171	35.56	ppm	98
82)	Octadecane	8.76	57	273066	32.50	ppm	99
84)	Pyrene	11.47	202	764301	33.65	ppm	100

(#) = qualifier out of range (m) = manual integration
F158418.D MF6644.M Thu Jun 30 12:47:47 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158418.D Vial: 25
Acq On : 28 Jun 2016 10:18 am Operator: brittanp
Sample : op94859-msd Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 10:40:17 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:51:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

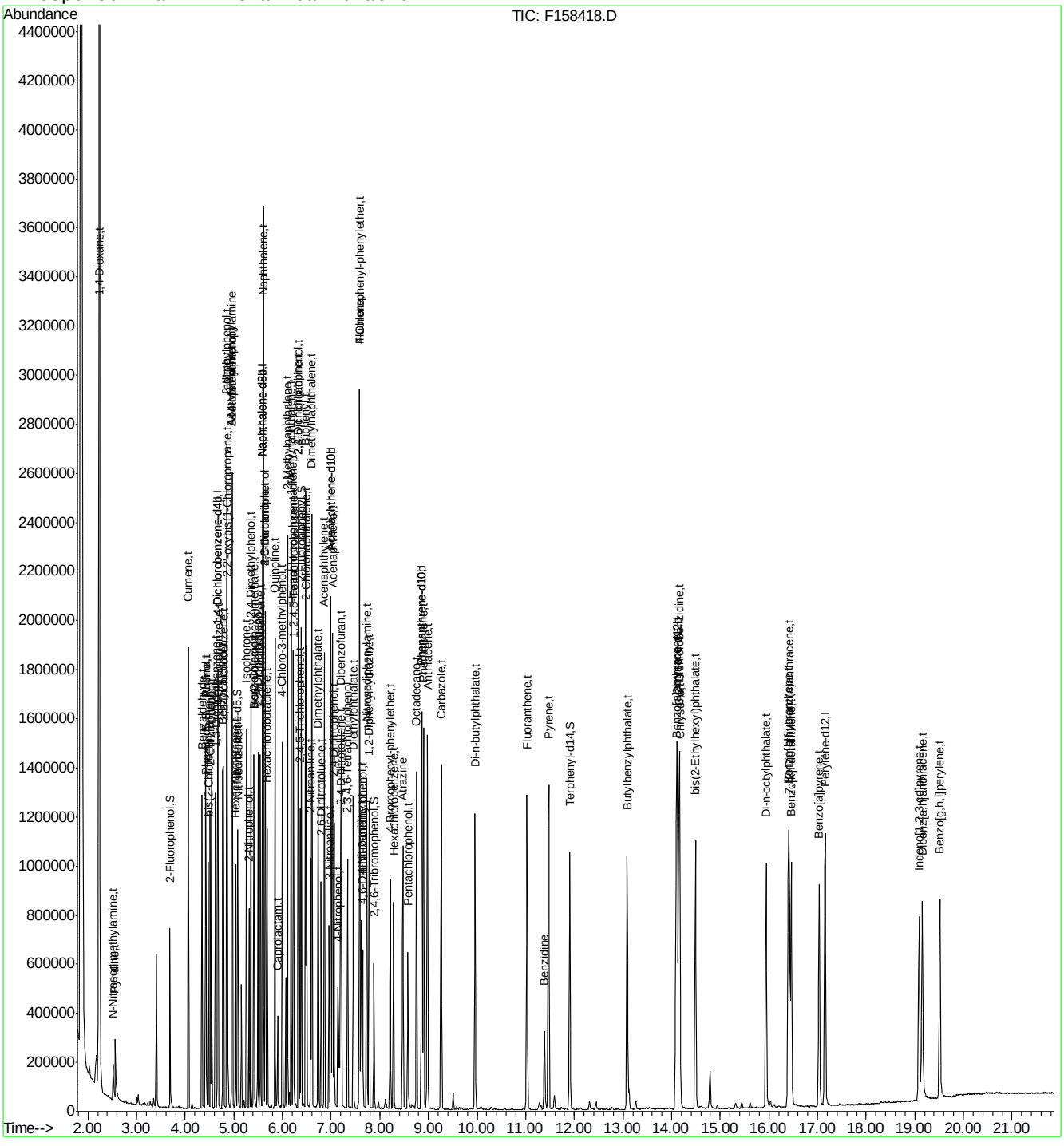
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.08	149	377355	37.80	ppm	98
88)	Benzo[a]anthracene	14.09	228	640394	34.12	ppm	99
89)	3,3'-Dichlorobenzidine	14.15	252	343436	54.16	ppm	99
90)	Chrysene	14.17	228	632549	31.46	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.49	149	516325	33.44	ppm	100
93)	Di-n-octylphthalate	15.94	149	867997	34.52	ppm	100
94)	Benzo[b]fluoranthene	16.40	252	617437	33.98	ppm	100
95)	Benzo[k]fluoranthene	16.47	252	612109	33.38	ppm	99
96)	Benzo[a]pyrene	17.04	252	540389	34.66	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.09	276	458825	32.10	ppm	96
99)	Dibenz[a,h]anthracene	19.16	278	466260	31.74	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.42	256	279262	34.82	ppm	99
101)	Benzo[g,h,i]perylene	19.52	276	492051	30.08	ppm	97
103)	Benzaldehyde	4.34	105	212337	38.54	ppm	95
107)	1,2,4,5-Tetrachlorobenzene	6.23	216	182731	36.36	ppm	100
109)	Atrazine	8.48	200	147946	52.57	ppm	97
111)	Benzidine	11.39	184	170429	23.34	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158418.D Vial: 25
Acq On : 28 Jun 2016 10:18 am Operator: brittanp
Sample : op94859-msd Inst : MSF
Misc : op94859,ef6667,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 30 12:47 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 30 09:50:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66407.D
Acq On : 28 Jun 2016 9:32 am
Operator : linseyk
Sample : op94835a-ms
Misc : op94835a,e4m2986,980
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 15:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	56381	4.00	ppm	-0.12
12) Fluorene-d10	12.651	176	63888	4.00	ppm	-0.11
22) Fluoranthene-d10	16.845	212	139699	4.00	ppm	-0.09
28) Benzo(a)pyrene-d12	21.437	264	109454	4.00	ppm	-0.08
35) 1-Methylnaphthalene-d10a	9.667	152	56381	4.00	ppm	#-0.12
38) Fluorene-d10a	12.651	176	63888	4.00	ppm	-0.11
System Monitoring Compounds						
2) 2-Fluorophenol	4.027	112	173211	19.28	ppm	-0.06
Spiked Amount 50.000	Range 11 - 58		Recovery = 38.56%			
3) Phenol-d5	5.442	99	194485	13.73	ppm	-0.04
Spiked Amount 50.000			Recovery = 27.46%			
6) Nitrobenzene-d5	6.876	82	393682	31.24	ppm	-0.09
Spiked Amount 50.000			Recovery = 62.48%			
11) 2-Fluorobiphenyl	10.335	172	571785	25.20	ppm	-0.10
Spiked Amount 50.000			Recovery = 50.40%			
17) 2,4,6-Tribromophenol	13.194	330	133563	44.86	ppm	-0.12
Spiked Amount 50.000			Recovery = 89.72%			
25) Terphenyl-d14	17.636	244	735034	37.26	ppm	-0.11
Spiked Amount 50.000			Recovery = 74.52%			
Target Compounds						Qvalue
4) Phenol	5.456	94	24021	1.57	ppm	84
5) bis(2-Chloroethyl)ether	5.511	93	7235	0.67	ppm	95
7) Naphthalene	8.206	128	34932	0.89	ppm	86
8) Hexachlorobutadiene	8.469	225	4091	0.61	ppm	70
9) 2-Methylnaphthalene	9.548	142	16002	0.86	ppm	76
10) Hexachlorocyclopentadiene	9.882	237	769	0.87	ppm	84
13) Acenaphthylene	11.314	152	20263	1.20	ppm	89
14) Acenaphthene	11.653	153	14041	1.34	ppm	96
15) Dibenzofuran	12.030	168	18168	1.06	ppm	100
16) Fluorene	12.696	166	20755	1.10	ppm	82
18) Hexachlorobenzene	13.795	284	6320	1.00	ppm	90
19) Pentachlorophenol	14.247	266	15549	6.68	ppm	82
20) Phenanthrene	14.604	178	30420	1.19	ppm	97
21) Anthracene	14.699	178	26761	1.14	ppm	91
23) Fluoranthene	16.864	202	39221	0.96	ppm	98
24) Pyrene	17.259	202	36183	0.91	ppm	97
26) Benzo[a]anthracene	19.349	228	26653	0.77	ppm #	89
27) Chrysene	19.406	228	22820	0.64	ppm	93
29) Benzo[b]fluoranthene	21.010	252	21233	0.56	ppm	96
30) Benzo[k]fluoranthene	21.052	252	21599	0.59	ppm	98
31) Benzo[a]pyrene	21.465	252	18604	0.54	ppm	98
32) Indeno[1,2,3-cd]pyrene	22.993	276	20679	0.52	ppm	92
33) Dibenz[a,h]anthracene	23.021	278	16796	0.50	ppm	91
34) Benzo[g,h,i]perylene	23.379	276	17486	0.50	ppm	97
36) 1,4-Dioxane	2.216	88	43213	11.67	ppm #	73
39) 4,6-dinitro-2-methylph...	12.907	198	13728	4.51	ppm	72
40) 1,2-Diphenylhydrazine	13.051	77	18813	1.07	ppm	92

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66407.D
Acq On : 28 Jun 2016 9:32 am
Operator : linseyk
Sample : op94835a-ms
Misc : op94835a,e4m2986,980
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 15:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.027	169	21365	1.70	ppm #	64

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

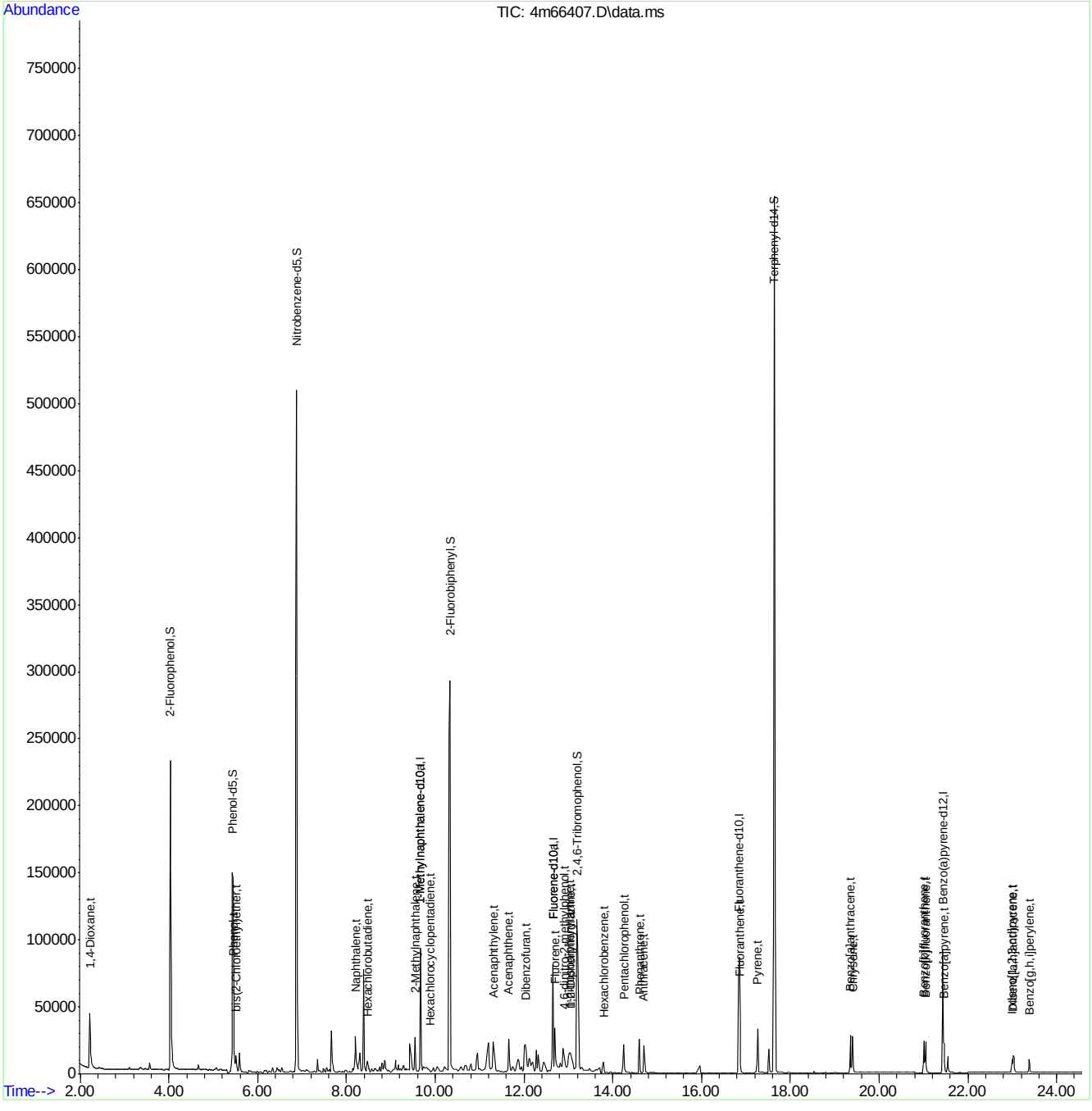
7.4.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66407.D
Acq On : 28 Jun 2016 9:32 am
Operator : linseyk
Sample : op94835a-ms
Misc : op94835a,e4m2986,980
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 15:22:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66408.D
Acq On : 28 Jun 2016 10:04 am
Operator : linseyk
Sample : op94835a-msd
Misc : op94835a,e4m2986,930
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 15:23:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	45339	4.00	ppm	-0.12
12) Fluorene-d10	12.651	176	50284	4.00	ppm	-0.11
22) Fluoranthene-d10	16.826	212	107974	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.437	264	85568	4.00	ppm	-0.08
35) 1-Methylnaphthalene-d10a	9.667	152	45339	4.00	ppm	#-0.12
38) Fluorene-d10a	12.651	176	50284	4.00	ppm	-0.11
System Monitoring Compounds						
2) 2-Fluorophenol	4.027	112	146206	20.24	ppm	-0.06
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.48%			
3) Phenol-d5	5.442	99	161461	14.17	ppm	-0.04
Spiked Amount 50.000			Recovery = 28.34%			
6) Nitrobenzene-d5	6.876	82	323876	31.96	ppm	-0.09
Spiked Amount 50.000			Recovery = 63.92%			
11) 2-Fluorobiphenyl	10.335	172	456365	25.01	ppm	-0.10
Spiked Amount 50.000			Recovery = 50.02%			
17) 2,4,6-Tribromophenol	13.194	330	110207	47.03	ppm	-0.12
Spiked Amount 50.000			Recovery = 94.06%			
25) Terphenyl-d14	17.636	244	621420	40.75	ppm	-0.11
Spiked Amount 50.000			Recovery = 81.50%			
Target Compounds						Qvalue
4) Phenol	5.456	94	19134	1.55	ppm	82
5) bis(2-Chloroethyl)ether	5.511	93	5987	0.69	ppm	95
7) Naphthalene	8.206	128	27779	0.88	ppm	89
8) Hexachlorobutadiene	8.469	225	3355	0.62	ppm	70
9) 2-Methylnaphthalene	9.548	142	13644	0.91	ppm	77
10) Hexachlorocyclopentadiene	9.882	237	497	0.78	ppm	86
13) Acenaphthylene	11.314	152	16620	1.25	ppm	89
14) Acenaphthene	11.653	153	11423	1.38	ppm	94
15) Dibenzofuran	12.030	168	14356	1.07	ppm	100
16) Fluorene	12.696	166	16370	1.10	ppm	82
18) Hexachlorobenzene	13.795	284	5187	1.04	ppm	88
19) Pentachlorophenol	14.247	266	11809	6.45	ppm	82
20) Phenanthrene	14.604	178	24383	1.21	ppm	96
21) Anthracene	14.699	178	21471	1.16	ppm	91
23) Fluoranthene	16.864	202	32264	1.02	ppm	98
24) Pyrene	17.259	202	30018	0.98	ppm	98
26) Benzo[a]anthracene	19.349	228	23023	0.86	ppm #	88
27) Chrysene	19.406	228	19870	0.72	ppm	99
29) Benzo[b]fluoranthene	21.010	252	19710	0.66	ppm	96
30) Benzo[k]fluoranthene	21.052	252	19923	0.69	ppm	99
31) Benzo[a]pyrene	21.465	252	18019	0.67	ppm	98
32) Indeno[1,2,3-cd]pyrene	22.993	276	20908	0.67	ppm	91
33) Dibenz[a,h]anthracene	23.021	278	16861	0.65	ppm	91
34) Benzo[g,h,i]perylene	23.379	276	17998	0.66	ppm	97
36) 1,4-Dioxane	2.205	88	36754	12.31	ppm #	1
39) 4,6-dinitro-2-methylph...	12.907	198	10448	4.37	ppm	71
40) 1,2-Diphenylhydrazine	13.051	77	15027	1.08	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66408.D
Acq On : 28 Jun 2016 10:04 am
Operator : linseyk
Sample : op94835a-msd
Misc : op94835a,e4m2986,930
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 15:23:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.027	169	16828	1.71	ppm #	64

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

7.4.6

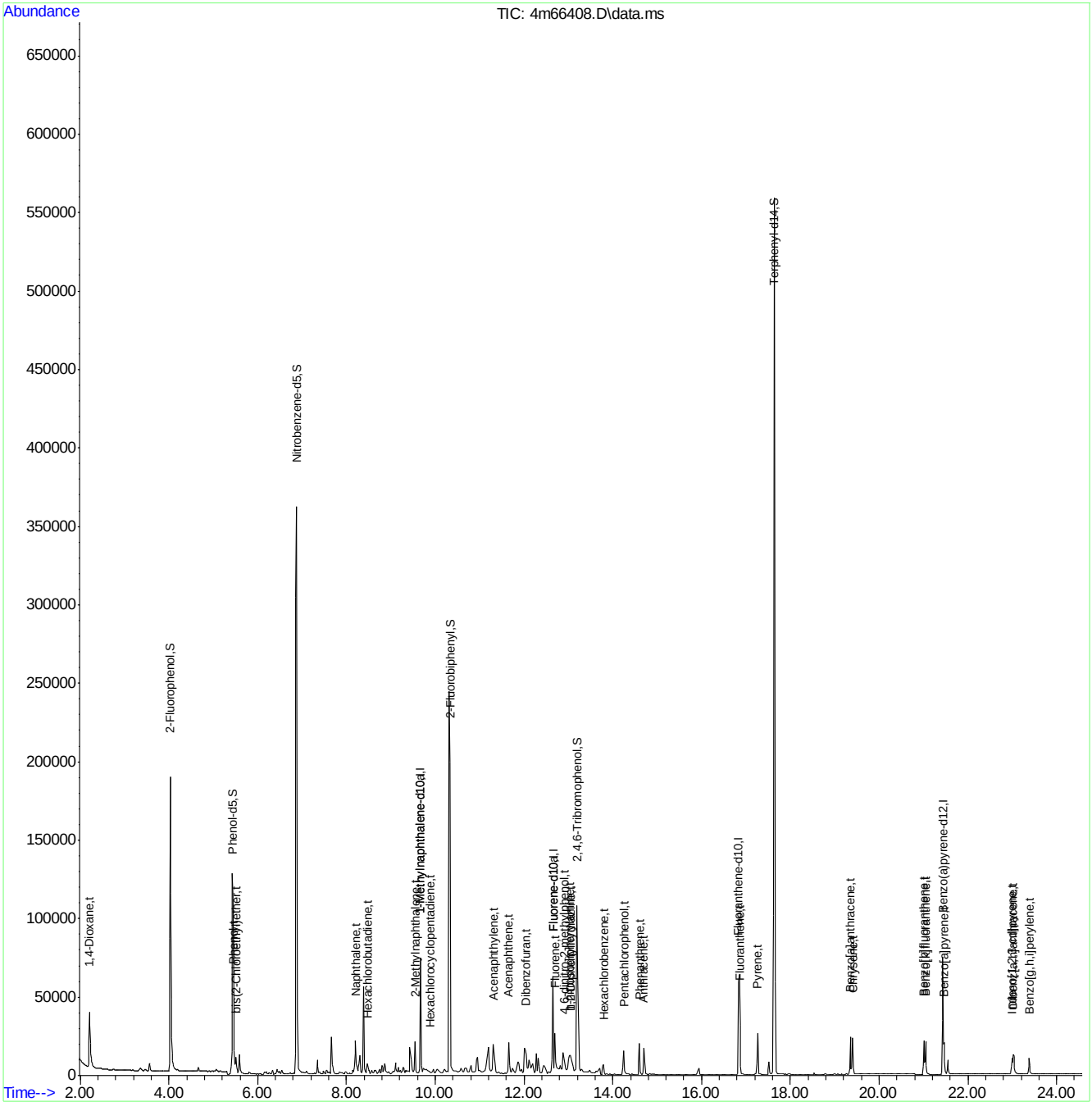
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66408.D
Acq On : 28 Jun 2016 10:04 am
Operator : linseyk
Sample : op94835a-msd
Misc : op94835a,e4m2986,930
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 15:23:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66392.D
Acq On : 27 Jun 2016 7:37 pm
Operator : linseyk
Sample : op94859a-ms
Misc : op94859a,e4m2984,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 12:58:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.715	152	33085	4.00	ppm		-0.07
12) Fluorene-d10	12.696	176	38251	4.00	ppm		-0.07
22) Fluoranthene-d10	16.883	212	86053	4.00	ppm		-0.06
28) Benzo(a)pyrene-d12	21.479	264	71182	4.00	ppm		-0.04
35) 1-Methylnaphthalene-d10a	9.715	152	33085	4.00	ppm		-0.07
38) Fluorene-d10a	12.696	176	38251	4.00	ppm		-0.07
System Monitoring Compounds							
2) 2-Fluorophenol	4.069	112	138913	26.35	ppm		-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 52.70%				
3) Phenol-d5	5.470	99	154682	18.61	ppm		-0.01
Spiked Amount 50.000			Recovery = 37.22%				
6) Nitrobenzene-d5	6.907	82	284251	38.44	ppm		-0.06
Spiked Amount 50.000			Recovery = 76.88%				
11) 2-Fluorobiphenyl	10.359	172	487481	36.61	ppm		-0.07
Spiked Amount 50.000			Recovery = 73.22%				
17) 2,4,6-Tribromophenol	13.242	330	108462	60.84	ppm		-0.07
Spiked Amount 50.000			Recovery = 121.68%				
25) Terphenyl-d14	17.674	244	563358	46.36	ppm		-0.08
Spiked Amount 50.000			Recovery = 92.72%				
Target Compounds							Qvalue
4) Phenol	5.497	94	20391	2.27	ppm		82
5) bis(2-Chloroethyl)ether	5.552	93	4949	0.78	ppm	#	69
7) Naphthalene	8.253	128	17502	0.76	ppm		96
8) Hexachlorobutadiene	8.516	225	2875	0.73	ppm		88
9) 2-Methylnaphthalene	9.595	142	8381	0.77	ppm		96
13) Acenaphthylene	11.361	152	10815	1.07	ppm		86
14) Acenaphthene	11.698	153	8860	1.41	ppm		92
15) Dibenzofuran	12.075	168	11421	1.12	ppm		100
16) Fluorene	12.740	166	13121	1.16	ppm		100
18) Hexachlorobenzene	13.833	284	4564	1.21	ppm		99
19) Pentachlorophenol	14.284	266	11175	8.02	ppm		97
20) Phenanthrene	14.642	178	19949	1.31	ppm		98
21) Anthracene	14.755	178	17381	1.23	ppm		99
23) Fluoranthene	16.902	202	21340	0.85	ppm		94
24) Pyrene	17.297	202	22499	0.92	ppm		92
26) Benzo[a]anthracene	19.387	228	20007	0.94	ppm		93
27) Chrysene	19.443	228	18488	0.84	ppm		88
29) Benzo[b]fluoranthene	21.052	252	17443	0.71	ppm		96
30) Benzo[k]fluoranthene	21.093	252	18845	0.79	ppm		98
31) Benzo[a]pyrene	21.506	252	15631	0.70	ppm		98
32) Indeno[1,2,3-cd]pyrene	23.048	276	17462	0.67	ppm		96
33) Dibenz[a,h]anthracene	23.076	278	13533	0.63	ppm	#	68
34) Benzo[g,h,i]perylene	23.434	276	14743	0.65	ppm		97
36) 1,4-Dioxane	2.247	88	3305305	475.34	ppm		87
39) 4,6-dinitro-2-methylph...	12.955	198	9441	5.13	ppm		70
40) 1,2-Diphenylhydrazine	13.099	77	13427	1.27	ppm		98
41) n-nitrosodiphenylamine	13.051	169	8000	1.07	ppm		99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66392.D
Acq On : 27 Jun 2016 7:37 pm
Operator : linseyk
Sample : op94859a-ms
Misc : op94859a,e4m2984,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 12:58:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

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

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

7.4.7

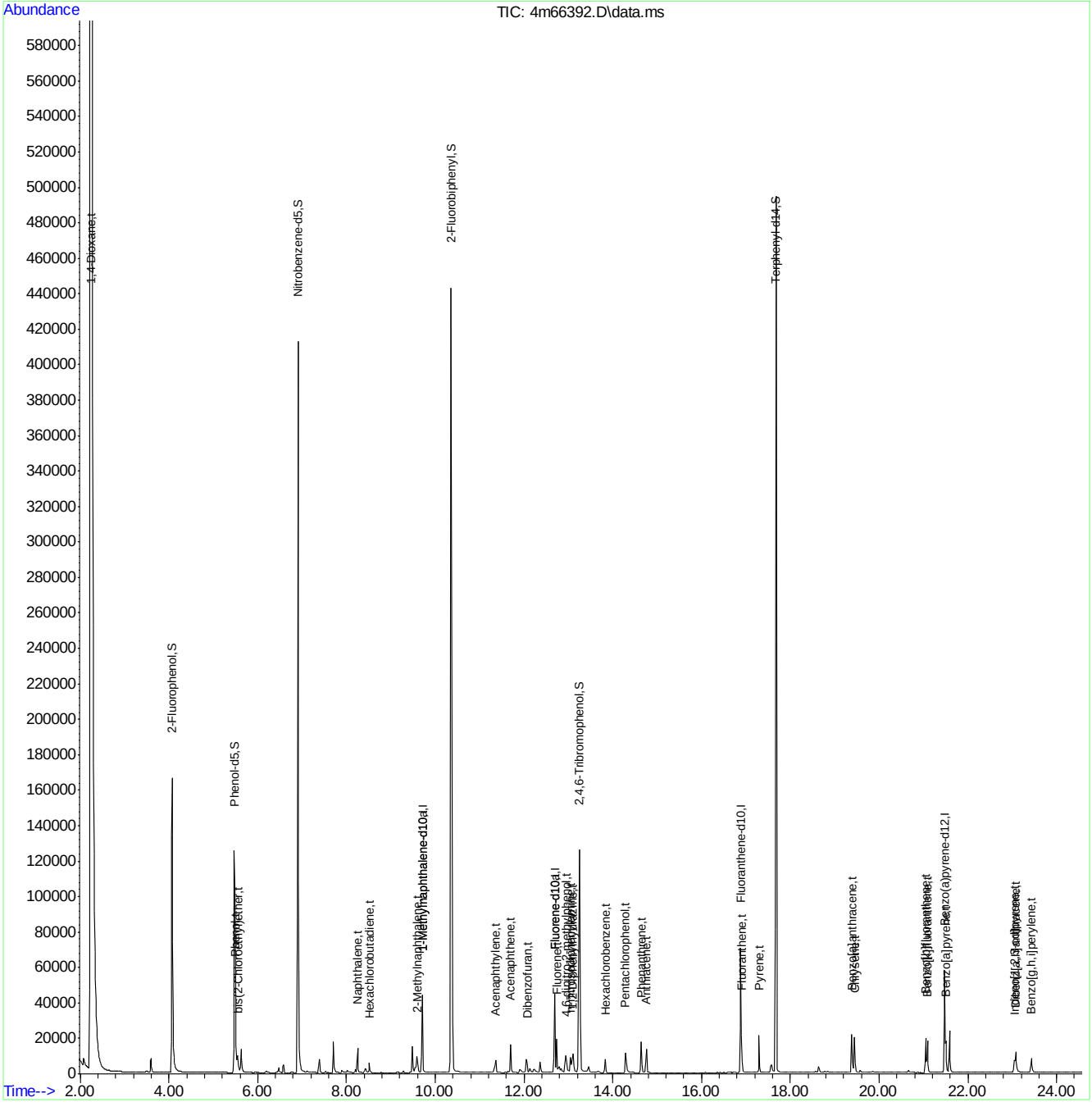
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66392.D
Acq On : 27 Jun 2016 7:37 pm
Operator : linseyk
Sample : op94859a-ms
Misc : op94859a,e4m2984,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 28 12:58:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66393.D
Acq On : 27 Jun 2016 8:08 pm
Operator : linseyk
Sample : op94859a-msd
Misc : op94859a,e4m2984,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 28 12:59:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.715	152	33083	4.00	ppm	-0.07
12) Fluorene-d10	12.696	176	38823	4.00	ppm	-0.07
22) Fluoranthene-d10	16.883	212	86818	4.00	ppm	-0.06
28) Benzo(a)pyrene-d12	21.479	264	74719	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.715	152	33083	4.00	ppm	-0.07
38) Fluorene-d10a	12.696	176	38823	4.00	ppm	-0.07
System Monitoring Compounds						
2) 2-Fluorophenol	4.069	112	147255	27.93	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 55.86%			
3) Phenol-d5	5.470	99	158215	19.03	ppm	-0.01
Spiked Amount 50.000			Recovery = 38.06%			
6) Nitrobenzene-d5	6.907	82	310963	42.05	ppm	-0.06
Spiked Amount 50.000			Recovery = 84.10%			
11) 2-Fluorobiphenyl	10.359	172	525898	39.49	ppm	-0.07
Spiked Amount 50.000			Recovery = 78.98%			
17) 2,4,6-Tribromophenol	13.242	330	110384	61.01	ppm	-0.07
Spiked Amount 50.000			Recovery = 122.02%			
25) Terphenyl-d14	17.674	244	565038	46.09	ppm	-0.08
Spiked Amount 50.000			Recovery = 92.18%			
Target Compounds						Qvalue
4) Phenol	5.497	94	18216	2.02	ppm	90
5) bis(2-Chloroethyl)ether	5.552	93	5630	0.89	ppm	72
7) Naphthalene	8.253	128	19061	0.83	ppm	96
8) Hexachlorobutadiene	8.516	225	3202	0.81	ppm	88
9) 2-Methylnaphthalene	9.595	142	8795	0.80	ppm	97
13) Acenaphthylene	11.361	152	11473	1.11	ppm	85
14) Acenaphthene	11.698	153	9591	1.50	ppm	91
15) Dibenzofuran	12.075	168	12108	1.17	ppm	100
16) Fluorene	12.740	166	12965	1.13	ppm	100
18) Hexachlorobenzene	13.833	284	4699	1.23	ppm	100
19) Pentachlorophenol	14.284	266	9602	6.79	ppm	98
20) Phenanthrene	14.642	178	20482	1.32	ppm	99
21) Anthracene	14.755	178	16978	1.19	ppm	99
23) Fluoranthene	16.902	202	21570	0.85	ppm	94
24) Pyrene	17.297	202	23136	0.94	ppm	93
26) Benzo[a]anthracene	19.387	228	20184	0.94	ppm #	91
27) Chrysene	19.443	228	18415	0.83	ppm	89
29) Benzo[b]fluoranthene	21.052	252	17613	0.68	ppm	96
30) Benzo[k]fluoranthene	21.093	252	19121	0.76	ppm	98
31) Benzo[a]pyrene	21.506	252	16451	0.70	ppm	97
32) Indeno[1,2,3-cd]pyrene	23.048	276	18273	0.67	ppm	98
33) Dibenz[a,h]anthracene	23.076	278	14313	0.63	ppm #	68
34) Benzo[g,h,i]perylene	23.434	276	15582	0.65	ppm	97
36) 1,4-Dioxane	2.247	88	3722404	509.48	ppm	91
39) 4,6-dinitro-2-methylph...	12.955	198	7849	4.27	ppm	69
40) 1,2-Diphenylhydrazine	13.099	77	13708	1.28	ppm	99
41) n-nitrosodiphenylamine	13.051	169	8621	1.13	ppm	96

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66393.D
Acq On : 27 Jun 2016 8:08 pm
Operator : linseyk
Sample : op94859a-msd
Misc : op94859a,e4m2984,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 28 12:59:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration

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

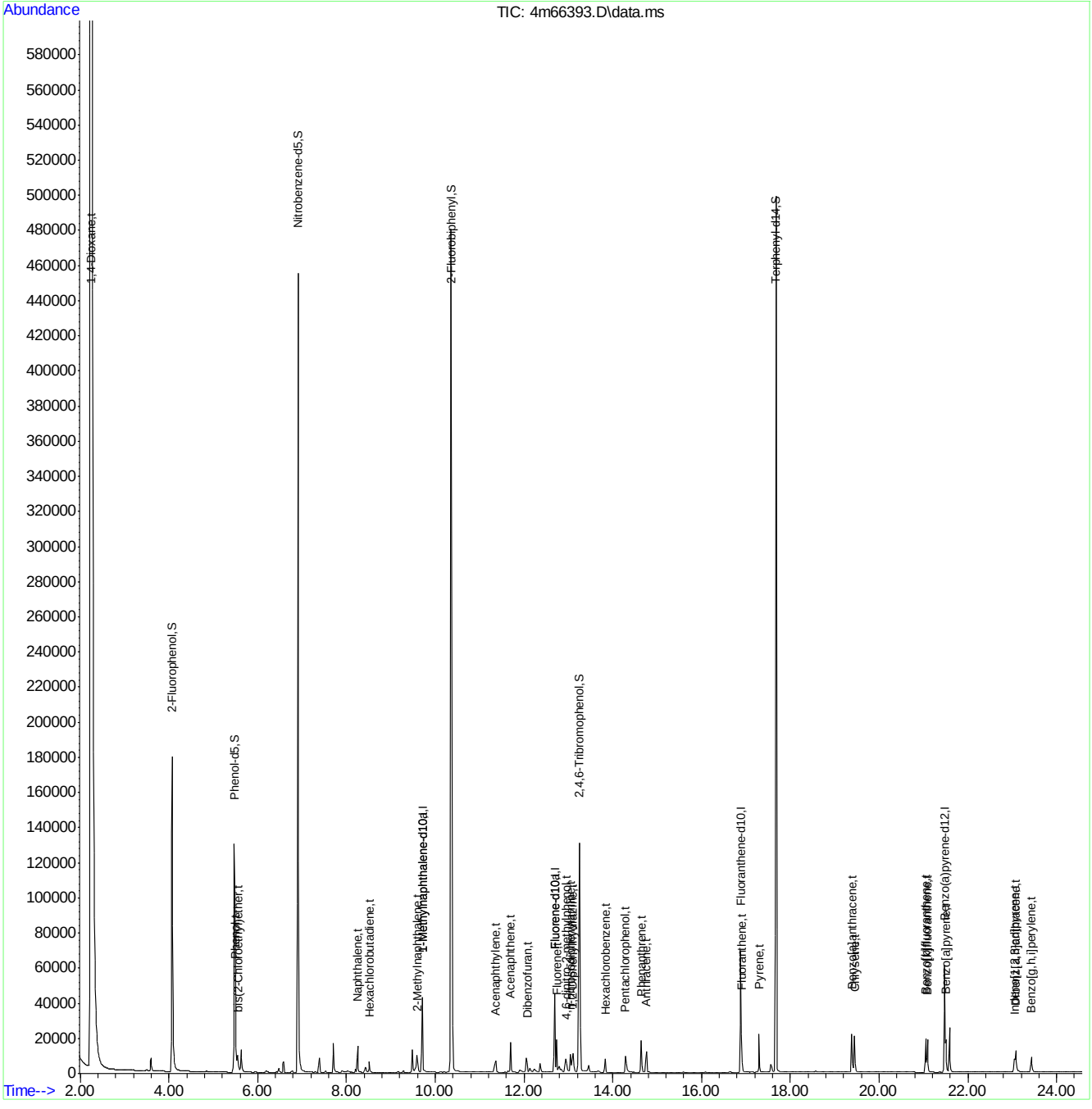
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66393.D
Acq On : 27 Jun 2016 8:08 pm
Operator : linseyk
Sample : op94859a-msd
Misc : op94859a,e4m2984,1000
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 28 12:59:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jun 24 09:13:56 2016
Response via : Initial Calibration



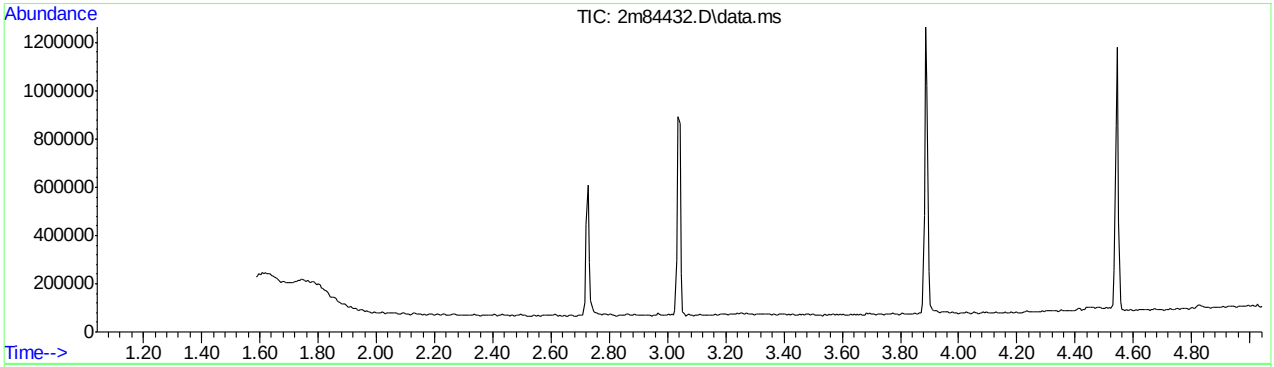
SGS ACCUTEST JC22206

DFTPP

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84432.D
Acq On : 7 Jun 2016 9:17 am
Operator : ashleyn
Sample : dftpp
Misc : op94122,e2m3720
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Mar 24 11:54:32 2016
Last Update : Thu Mar 24 11:54:32 2016



AutoFind: Scans 272, 273, 274; 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	45.0	28076	PASS
68	69	0.00	2	1.9	578	PASS
69	198	0.00	100	47.6	29659	PASS
70	69	0.00	2	0.5	163	PASS
127	198	40	60	55.5	34590	PASS
197	198	0.00	1	0.4	231	PASS
198	198	100	100	100.0	62365	PASS
199	198	5	9	7.0	4366	PASS
275	198	10	30	25.5	15903	PASS
365	198	1	100	4.8	3000	PASS
441	443	0.10	100	77.1	5772	PASS
442	198	40	100	62.4	38906	PASS
443	442	17	23	19.2	7487	PASS

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	1666	52.00	1632	64.00	80	77.05	34428
37.00	71	52.80	30	65.05	520	78.05	2185
38.00	325	54.10	33	66.95	152	79.05	2847
39.10	2144	56.00	827	68.05	578	80.00	1899
42.05	64	57.00	2153	69.00	29659	81.10	2316
43.10	175	57.95	94	70.00	163	81.95	547
45.05	70	59.20	23	72.10	18	83.05	389
46.20	34	59.95	156	73.15	391	85.05	748
49.05	101	61.05	173	74.00	3481	86.00	967
50.05	7543	62.00	271	75.05	4970	86.95	338
51.05	28076	63.00	1171	76.00	1729	87.95	89

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.95	146	100.00	297	109.95	17462	120.00	167
90.00	75	100.95	1492	111.05	2391	120.20	40
91.00	550	101.90	27	112.00	274	120.90	118
91.95	549	102.20	38	113.00	57	122.05	603
93.05	4542	102.95	470	113.80	32	123.10	1086
93.90	301	104.00	770	115.10	149	123.95	448
94.90	342	105.00	765	115.70	34	125.05	461
96.05	381	106.05	366	116.15	548	125.90	43
98.00	2898	107.05	11181	117.10	9523	126.20	72
99.00	2308	108.05	1859	118.00	724	127.10	34590
99.70	23	108.95	93	118.90	21	128.05	2532

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	13253	138.15	102	147.05	973	156.90	244
130.00	1067	139.10	32	148.05	2324	158.05	299
131.05	418	140.10	7	149.00	252	159.00	229
132.10	204	141.05	1699	149.90	91	159.20	53
133.95	433	142.00	658	151.10	236	160.00	673
134.20	72	143.00	350	151.30	25	161.00	685
135.05	1087	144.00	217	152.05	73	161.20	77
136.00	432	144.50	40	153.05	652	162.05	264
137.00	571	144.80	49	154.00	408	162.60	30
137.20	232	145.05	103	155.05	925	163.15	126
137.90	79	145.95	376	156.05	1590	163.70	23

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.05	119	173.05	252	182.80	69	193.10	1073
165.05	719	174.00	508	183.10	36	193.90	136
166.00	490	175.10	1659	184.00	286	194.10	203
167.10	3224	176.00	419	185.05	1335	194.50	32
168.00	1506	177.00	729	186.10	9248	194.90	34
168.20	140	178.00	170	187.05	2560	195.20	153
169.00	185	179.00	3040	188.05	325	196.10	1263
169.80	83	180.05	1847	189.05	759	196.70	231
170.30	59	181.10	869	189.70	16	197.05	175
171.00	179	181.60	41	191.00	274	198.00	62365
172.00	421	182.10	209	192.00	647	199.00	4366

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
199.90	272	210.05	288	220.10	91	229.05	948
201.05	156	211.10	595	221.00	1966	229.80	123
201.55	121	212.00	133	221.80	78	230.00	51
202.05	27	212.60	21	222.10	469	231.00	270

203.05	509	213.05	95	223.05	1255	231.20	75
204.00	2295	214.25	61	224.10	9932	231.95	83
205.10	4501	215.00	84	225.10	2602	232.95	15
206.10	16868	216.05	431	225.95	161	233.20	41
207.10	2226	217.05	4538	226.30	151	233.90	109
208.00	467	218.10	727	227.10	4486	234.10	221
208.95	124	219.15	56	228.05	720	235.10	540

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.00	224	243.05	421	251.90	65	261.10	105
237.00	446	244.10	7234	252.25	108	262.05	63
238.10	27	245.05	846	253.10	81	262.50	36
238.30	23	246.05	1589	253.60	26	263.00	20
238.60	38	247.05	311	254.00	276	263.85	7
239.00	15	248.10	73	255.10	38585	264.20	68
239.20	45	249.05	348	256.10	5741	265.05	1190
240.05	222	249.50	31	257.05	430	265.70	36
240.85	222	249.95	72	258.05	2485	265.90	36
241.10	48	250.60	27	259.00	464	266.70	23
242.10	495	251.10	103	260.10	77	267.85	54

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.60	20	278.10	149	286.80	26	296.10	6247
270.05	111	278.70	23	288.10	35	297.10	861
270.90	57	279.00	23	288.80	34	297.70	26
271.30	129	279.20	33	289.00	31	298.00	69
272.00	158	279.90	53	290.80	24	300.30	43
272.95	1088	280.60	42	291.15	127	301.00	120
274.10	3205	282.90	31	292.05	116	301.70	31
275.10	15903	283.20	92	293.10	384	301.95	49
276.05	2086	283.95	85	293.90	43	302.90	262
277.05	1669	285.05	374	294.25	57	303.10	321
277.90	98	286.15	86	295.00	123	303.90	122

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
304.10	46	313.05	71	324.05	298	335.10	358
304.70	39	313.90	42	325.05	42	335.90	47
306.00	19	314.15	311	325.90	41	337.10	26
306.80	31	315.00	651	327.05	401	338.90	21
307.60	20	316.10	312	328.05	173	339.80	28
308.05	71	316.85	59	329.00	65	340.20	18
308.30	33	317.30	29	331.10	18	341.00	41
309.20	65	319.10	22	332.05	164	341.15	103
310.15	123	321.10	183	333.00	44	343.20	17
310.70	17	322.10	59	333.15	129	344.00	39
311.20	19	323.10	2018	334.05	1201	345.10	17

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.05	516	359.00	37	371.10	131	384.70	28
346.95	33	360.00	43	371.30	61	387.40	20
347.90	21	362.10	18	372.10	917	388.10	24
351.10	41	363.70	20	372.95	266	389.20	47
351.90	156	364.10	44	373.80	20	390.10	122
352.10	409	365.00	3000	374.20	34	391.10	107
353.00	119	366.05	419	378.00	17	391.95	53
353.20	278	366.90	16	379.10	38	400.80	57
354.10	528	367.10	68	379.50	22	402.05	342
356.00	36	369.00	22	383.05	319	403.00	442
356.90	16	370.10	54	384.00	63	404.05	377

Average of 3.036 to 3.047 min.: 2m84432.D\data.ms

dftpp2m.M Tue Jun 07 12:21:52 2016 Page: 3

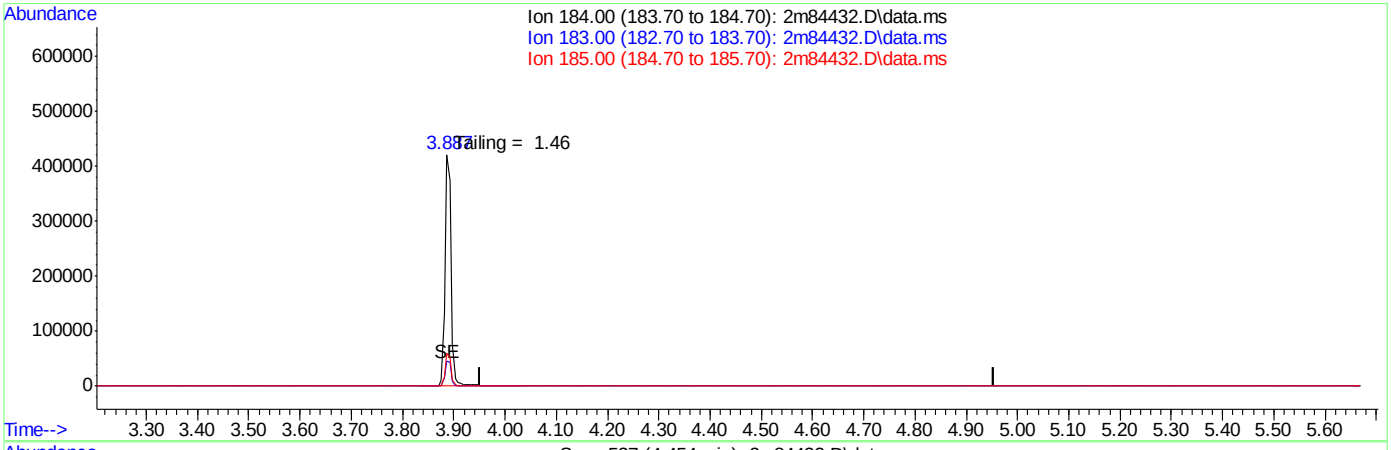
dftpp
Modified:subtracted

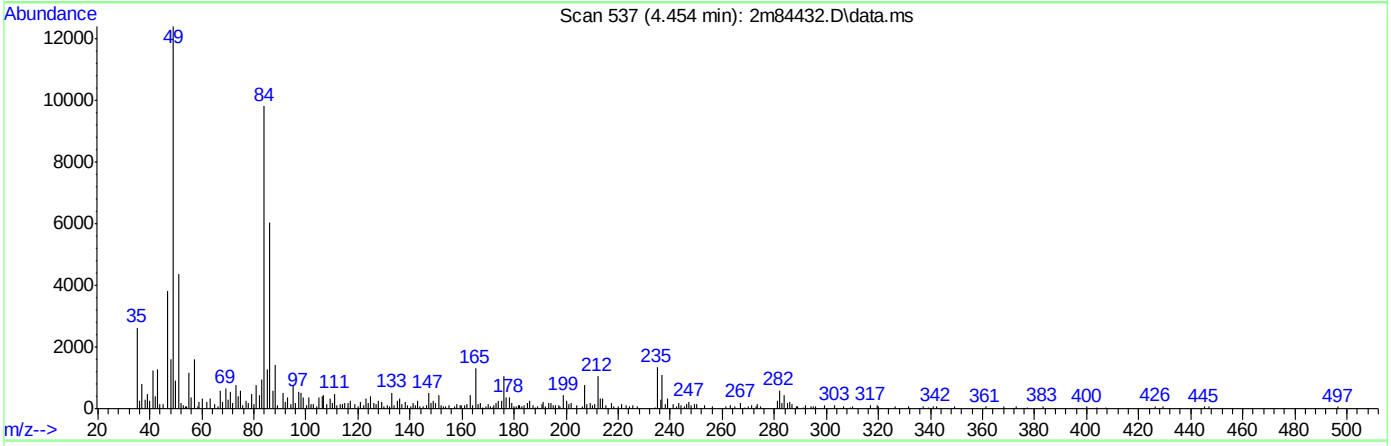
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.80	18	421.00	464	428.90	54	443.10	7487
409.30	30	422.05	374	429.80	42	444.05	742
413.00	18	423.10	2772	431.00	36	445.10	20
413.80	17	424.05	346	432.30	103	446.70	23
414.00	17	424.70	18	432.50	17	454.70	29
415.10	40	425.10	38	433.30	121	456.20	27
415.90	24	425.90	17	434.90	19	473.20	18
417.10	51	426.50	20	435.10	49	485.70	17
417.80	19	427.70	68	439.20	17	487.00	53
419.10	29	428.10	33	441.05	5772	495.60	23
420.00	32	428.40	18	442.10	38906		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84432.D
Acq On : 7 Jun 2016 9:17 am
Operator : ashleyn
Sample : dftpp
Misc : op94122,e2m3720
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 09:24:36 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Mar 24 11:54:32 2016
QLast Update : Thu Mar 24 11:54:32 2016
Response via : Initial Calibration





(1) Benzidine

4.454min 0.00 d

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 JC22206

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84432.D
Acq On    :  7 Jun 2016   9:17 am
Operator  : ashleyn
Sample    : dftpp
Misc      : op94122,e2m3720
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jun 07 09:24:36 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title  : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Mar 24 11:54:32 2016
QLast Update : Thu Mar 24 11:54:32 2016
Response via : Initial Calibration
```
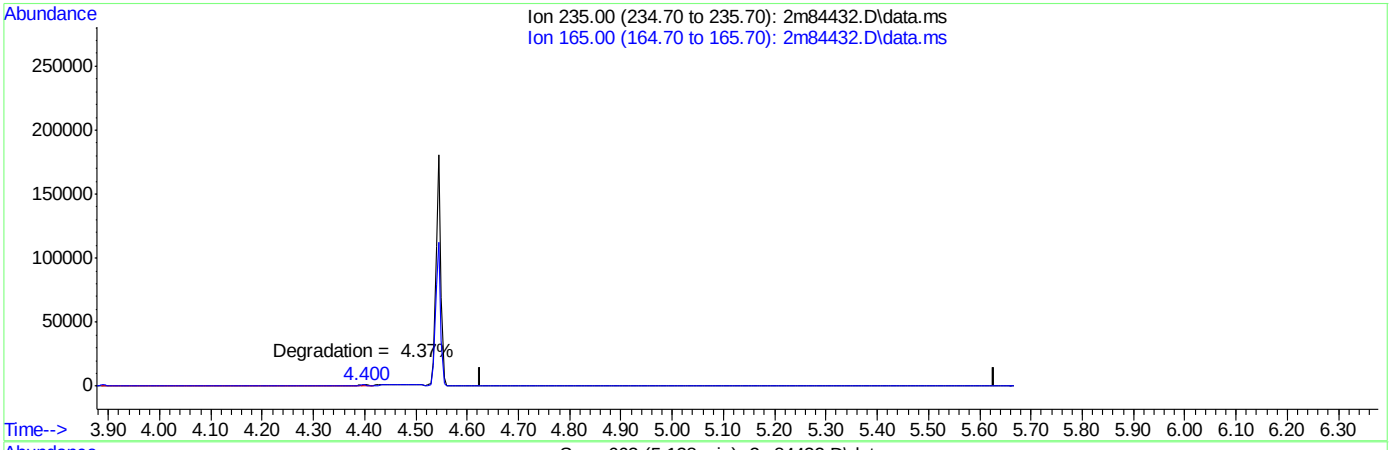
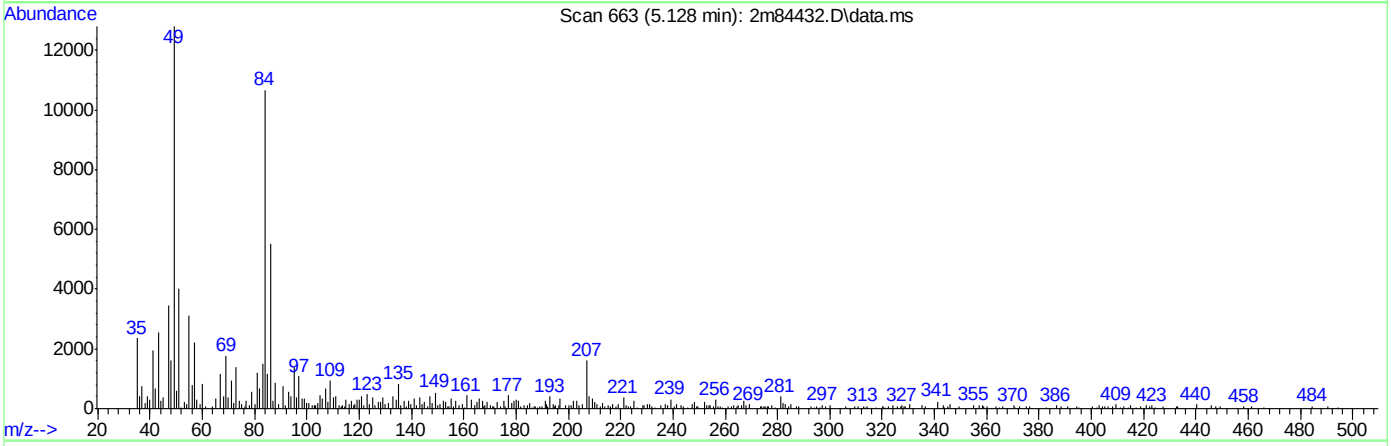





TIC: 2m84432.D\data.ms

(2) ddt

5.128min (-5.128) 0.00

response 0

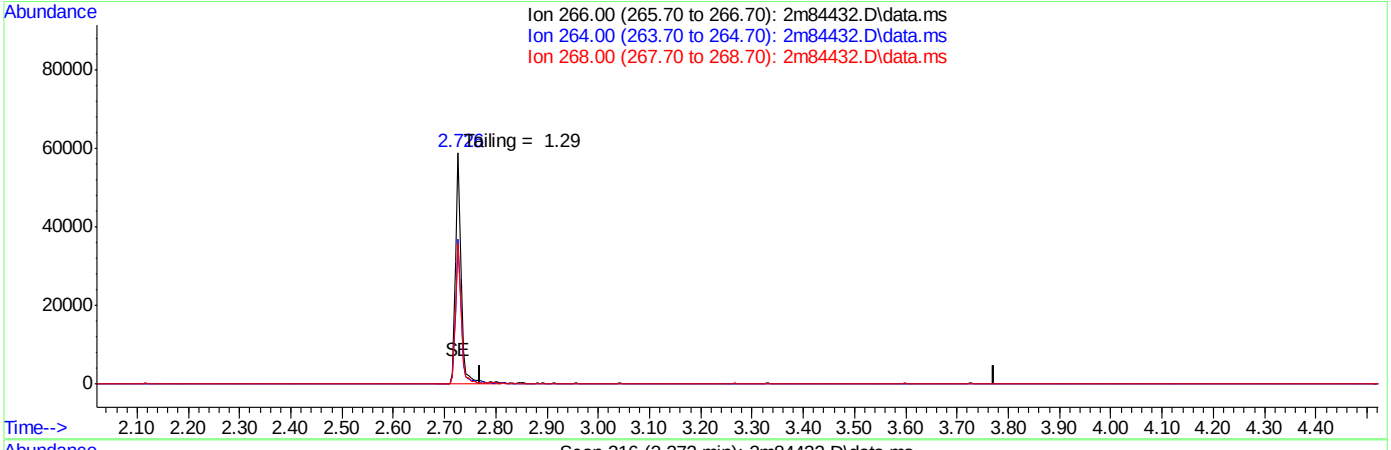
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

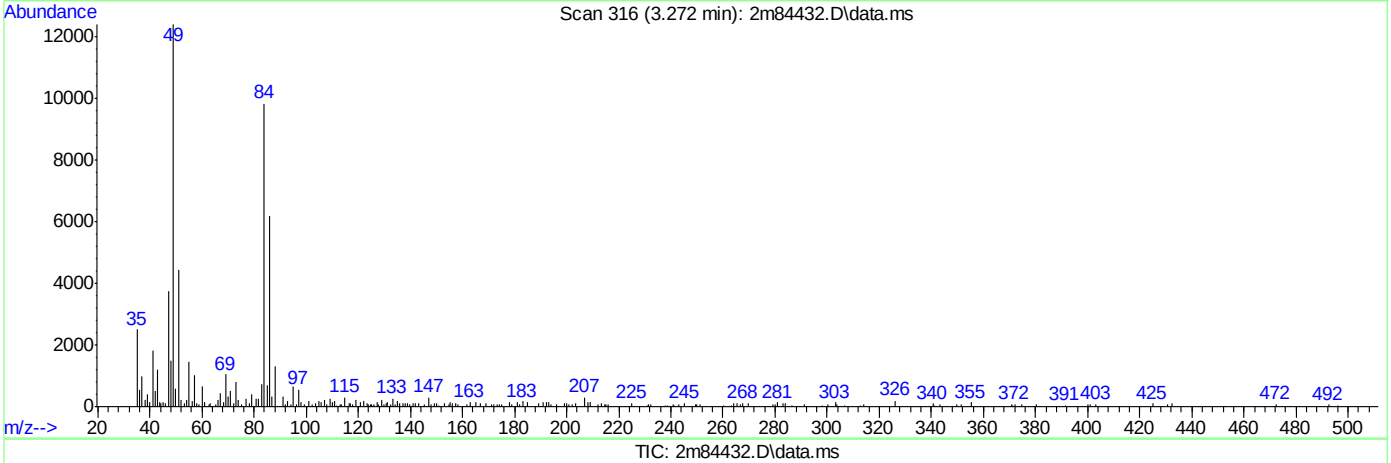
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84432.D
Acq On : 7 Jun 2016 9:17 am
Operator : ashleyn
Sample : dftpp
Misc : op94122,e2m3720
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 09:24:36 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Mar 24 11:54:32 2016
QLast Update : Thu Mar 24 11:54:32 2016
Response via : Initial Calibration





TIC: 2m84432.D\data.ms

(3) Pentachlorophenol

3.272min (-3.272) 0.00

response 0

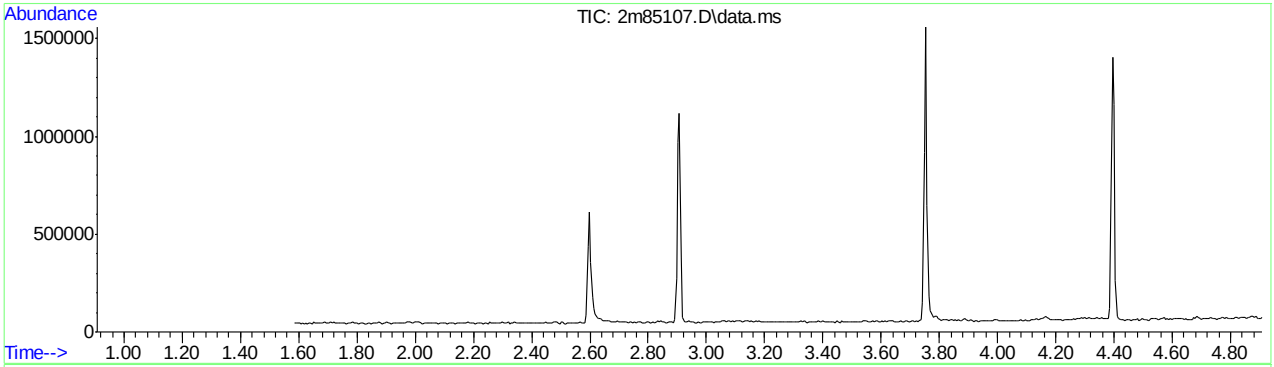
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

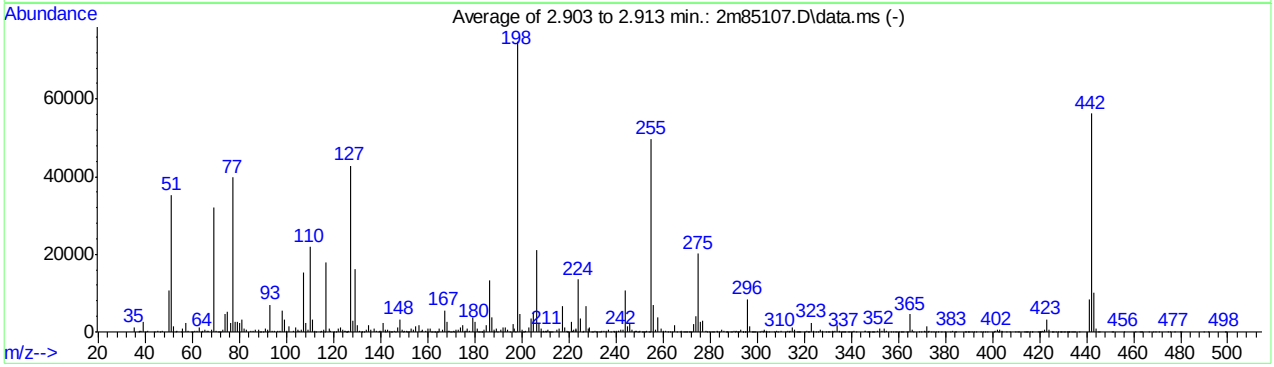
DFTPP

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85107.D
Acq On : 28 Jun 2016 9:52 am
Operator : ashleyn
Sample : dftpp
Misc : op94766,e2m3754
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\dftpp2m.M
Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
Last Update : Thu Jun 09 16:42:34 2016





AutoFind: Scans 247, 248, 249; Background Corrected with Scan 241

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.2	35314	PASS
68	69	0.00	2	1.7	552	PASS
69	198	0.00	100	42.7	31975	PASS
70	69	0.00	2	0.8	261	PASS
127	198	40	60	57.3	42834	PASS
197	198	0.00	1	1.0	740	PASS
198	198	100	100	100.0	74813	PASS
199	198	5	9	6.1	4542	PASS
275	198	10	30	26.9	20160	PASS
365	198	1	100	6.1	4586	PASS
441	443	0.10	100	81.9	8383	PASS
442	198	40	100	75.2	56266	PASS
443	442	17	23	18.2	10241	PASS

SGS ACCUTEST JC22206

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	1253	50.10	10722	60.95	439	70.95	97
37.00	66	51.10	35314	61.95	399	71.50	18
37.90	300	52.05	1483	63.10	1034	72.20	48
38.20	347	52.95	59	63.80	44	72.95	559
39.10	2622	53.30	168	64.20	176	74.10	4625
40.15	151	55.15	24	65.10	529	75.00	5313
41.10	309	56.00	741	66.15	182	76.05	2407
44.00	57	57.00	2362	66.90	353	77.10	39811
45.15	376	58.15	190	68.15	552	78.05	2517
46.10	89	59.80	75	69.00	31975	79.00	2603
47.00	428	60.30	65	70.05	261	80.00	2298

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.05	3056	91.95	649	102.90	339	112.30	132
82.00	902	92.20	39	103.90	1185	114.20	71
83.00	497	93.05	7065	104.90	559	115.05	175
85.05	418	93.95	363	105.10	359	116.00	639
86.00	333	95.05	413	106.15	511	116.20	94
86.95	468	96.10	259	107.05	15277	117.00	17838
87.95	480	97.10	330	108.05	2228	118.00	956
88.70	137	98.05	5475	109.05	678	118.85	326
89.10	8	99.05	3090	109.95	21877	120.05	124
90.10	19	100.00	404	111.05	3173	121.00	57
90.95	854	101.05	1597	111.95	295	121.90	917

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	1258	130.05	1702	139.80	201	147.10	1306
123.90	545	130.90	187	140.10	239	148.10	3322
124.80	320	131.90	28	140.90	2302	149.10	665
125.00	280	132.10	142	141.80	49	149.40	81
125.20	130	133.00	6	142.05	624	149.95	263
125.60	72	134.05	638	142.95	627	151.00	383
125.90	19	135.00	1629	143.70	161	151.20	37
126.20	181	135.95	708	144.20	33	151.70	42
127.10	42834	137.05	860	144.85	104	151.95	134
128.00	2793	138.10	343	145.90	291	153.05	795
129.00	16159	139.05	151	146.10	77	153.95	618

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.00	1496	163.90	81	171.30	287	180.95	886
156.10	1726	164.20	100	171.95	599	181.70	55
157.10	411	165.05	799	173.05	717	181.90	67
157.95	564	166.10	542	174.05	1200	182.80	115
159.10	303	167.05	5526	175.05	1601	183.00	71
160.00	877	168.05	2580	176.00	158	183.95	449
161.00	898	168.90	443	176.25	274	185.05	1771
161.60	128	169.10	238	176.95	911	186.10	13338
161.90	119	169.70	21	177.90	426	187.10	3879
162.85	76	169.95	79	179.00	3677	188.00	473
163.20	93	170.90	94	180.05	2481	188.40	43

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.95	981	199.00	4542	208.30	121	214.95	566
189.85	132	200.00	498	208.95	178	216.00	791
191.00	450	200.55	123	209.20	63	217.05	6731
192.05	1278	201.25	73	209.90	152	218.15	1055

dftpp2m.M Tue Jun 28 14:53:42 2016 Page: 2

193.00	1280	201.60	363	210.10	187	218.95	189
194.05	501	203.00	1222	210.80	237	219.30	74
194.85	68	204.05	3513	211.00	707	219.80	41
196.15	2032	205.05	4837	211.70	132	221.00	2664
196.85	740	206.10	20965	211.95	18	221.70	376
197.10	52	207.05	2435	212.50	68	221.95	513
198.00	74813	208.00	745	213.10	57	223.00	896

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.20	684	231.40	31	239.95	264	248.90	306
224.10	13532	232.00	46	241.00	231	249.20	143
225.05	3419	233.15	124	241.20	187	249.70	71
225.90	133	233.70	80	242.10	694	250.15	177
226.15	214	234.00	284	243.10	526	251.05	16
227.10	6691	235.05	392	244.10	10671	251.65	99
228.05	991	235.95	363	245.05	1336	252.10	94
228.90	1227	237.00	633	246.05	2321	252.30	43
229.90	102	237.90	20	246.90	507	252.95	322
230.20	139	239.05	218	247.80	76	254.00	74
231.00	435	239.30	102	248.05	188	254.20	68

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
255.10	49827	265.90	112	274.05	4115	283.10	252
256.10	6942	267.40	47	275.10	20160	284.05	109
257.05	616	267.95	208	276.10	2695	285.10	491
258.00	3624	268.70	19	277.05	2782	286.05	200
259.10	840	269.15	147	278.10	325	286.70	17
260.10	277	269.70	31	278.95	105	287.10	53
261.05	161	270.30	42	279.70	17	287.50	17
262.00	73	271.00	131	280.40	18	288.85	73
262.90	69	271.80	70	281.10	99	289.40	43
263.90	73	272.10	134	281.40	30	290.30	174
265.10	1790	273.10	1956	282.90	21	290.50	46

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
291.00	158	297.80	23	305.00	29	316.90	18
291.60	30	298.20	17	307.10	64	317.50	34
291.90	72	298.75	46	308.15	220	317.70	34
292.20	100	299.00	39	308.90	117	318.30	28
292.95	628	300.90	37	310.05	168	320.10	142
293.90	97	301.90	182	312.15	78	320.90	370
294.10	55	302.60	147	312.85	159	321.70	24
294.75	22	302.90	163	313.35	20	321.90	120
295.10	37	303.10	663	314.05	412	323.10	2363
296.00	8483	303.90	97	315.05	1172	323.95	215
297.05	1433	304.10	264	316.10	535	325.15	67

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.10	53	335.15	253	346.10	371	353.90	126
326.95	516	335.90	47	346.70	10	354.05	735
328.00	239	336.50	60	347.20	36	355.05	364
329.20	99	336.70	35	347.35	61	356.70	64
330.10	46	337.20	76	347.80	34	358.00	39
330.70	23	338.60	60	348.70	28	358.90	58
331.95	158	339.00	21	349.40	90	359.30	90
332.20	33	340.00	24	349.90	36	360.00	61
333.00	209	341.20	178	351.20	156	361.20	31
334.05	1671	341.90	56	352.10	824	361.80	26
334.90	110	345.90	339	353.00	259	362.10	28

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms

dftpp2m.M Tue Jun 28 14:53:42 2016 Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
363.50	37	373.00	215	388.40	56	398.00	27
364.00	86	373.80	93	388.70	19	400.80	63
365.05	4586	374.90	78	389.60	51	401.20	197
366.00	572	376.10	19	389.90	35	402.05	516
366.60	18	376.80	50	390.35	70	402.60	56
368.60	54	378.10	18	391.15	24	402.80	153
369.75	67	379.70	40	392.10	63	403.10	501
371.00	181	382.00	103	393.20	17	403.90	58
371.20	85	382.95	414	395.00	39	404.05	359
372.05	1492	384.00	18	396.00	18	405.90	22
372.80	101	384.30	27	396.80	36	407.40	24

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
409.60	21	419.20	23	425.60	85	432.50	49
410.70	19	419.70	19	425.80	62	432.70	57
411.20	22	420.00	50	427.10	39	433.70	48
413.60	23	420.30	18	427.80	48	434.10	36
414.00	52	420.60	67	428.90	16	434.50	19
414.40	22	421.10	376	429.30	22	435.10	17
414.70	30	421.70	103	429.50	38	437.10	31
415.00	33	422.10	664	430.20	17	441.10	8383
415.90	22	423.05	3276	430.50	37	442.10	56266
416.70	23	423.95	544	431.75	76	443.05	10241
417.00	23	425.25	97	432.20	44	444.15	837

Average of 2.903 to 2.913 min.: 2m85107.D\data.ms
dftpp
Modified:subtracted

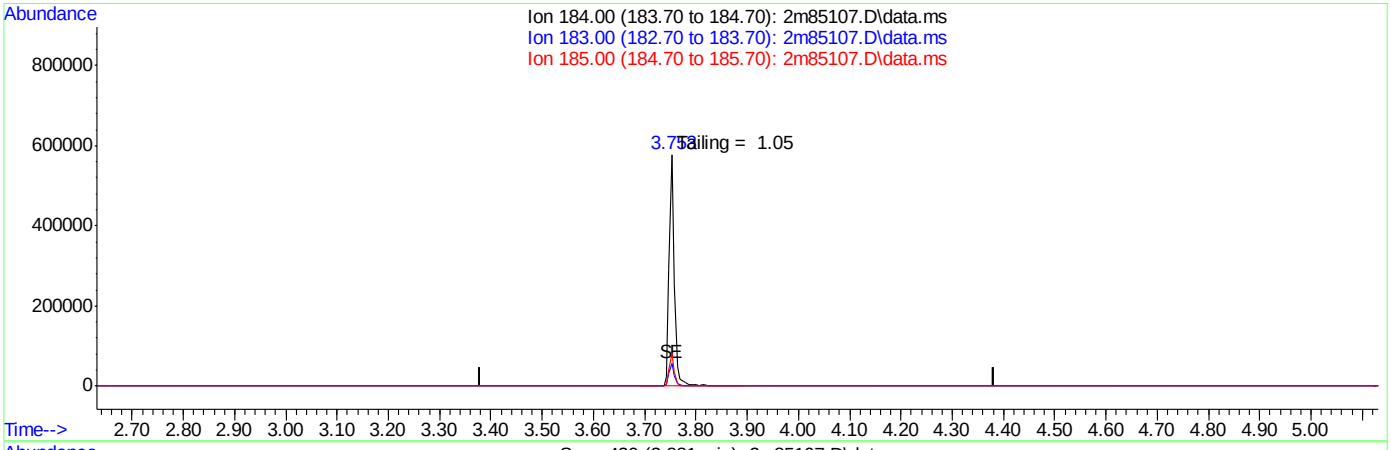
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.10	72	469.20	24				
445.40	19	470.50	17				
450.90	34	474.50	23				
451.30	17	475.70	17				
455.80	53	477.25	102				
460.90	23	479.60	27				
462.50	32	480.30	36				
462.90	28	489.80	26				
463.60	22	491.80	36				
466.40	43	498.60	72				
468.10	23	499.10	33				

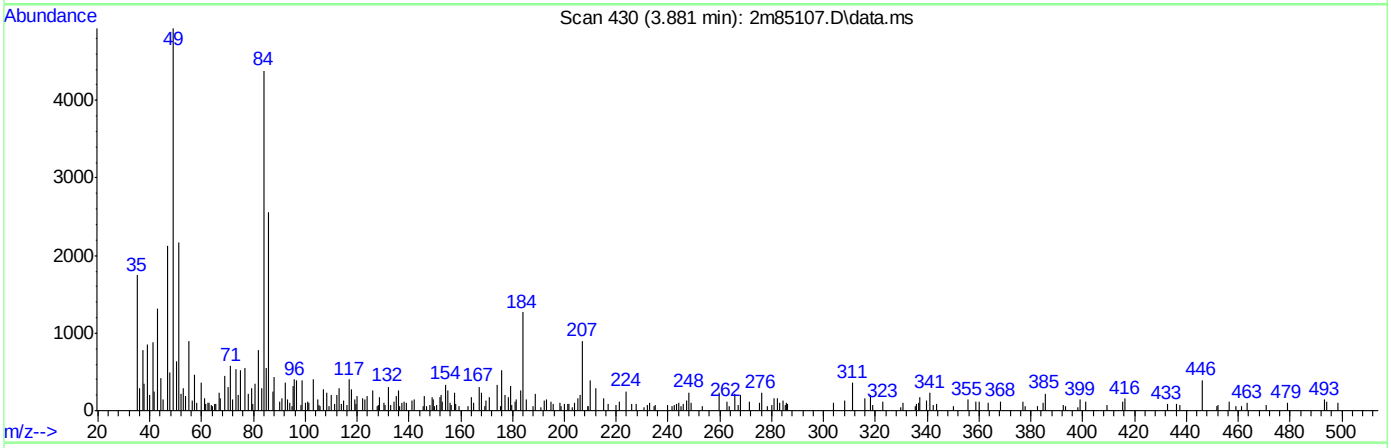
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85107.D
Acq On : 28 Jun 2016 9:52 am
Operator : ashleyn
Sample : dftpp
Misc : op94766,e2m3754
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 10:02:41 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85107.D\data.ms

(1) Benzidine

3.881min (-3.881) 0.00

response 0

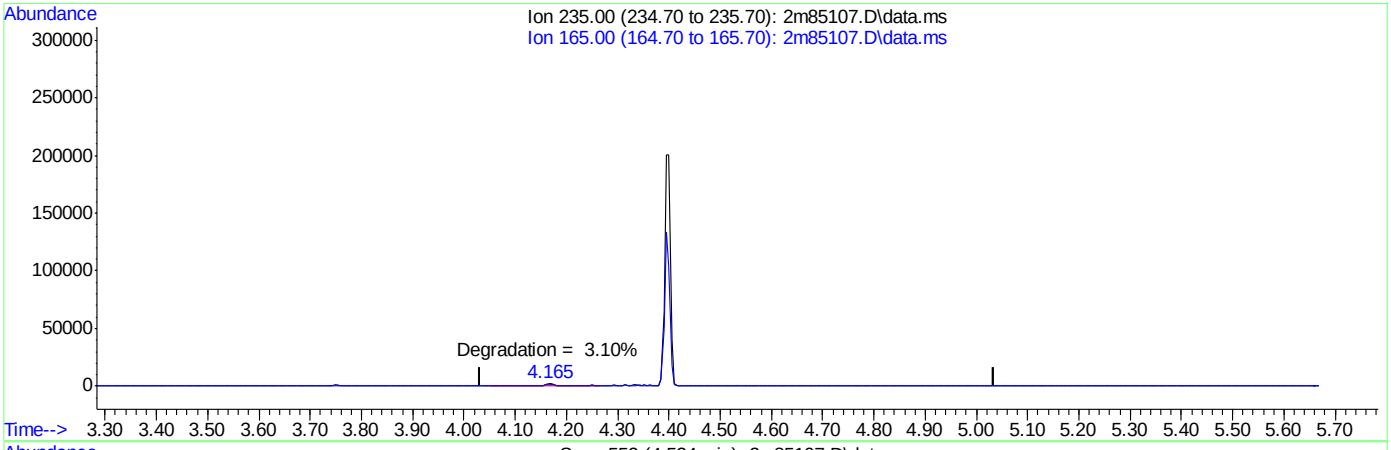
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.70	0.00
185.00	13.90	0.00
0.00	0.00	0.00

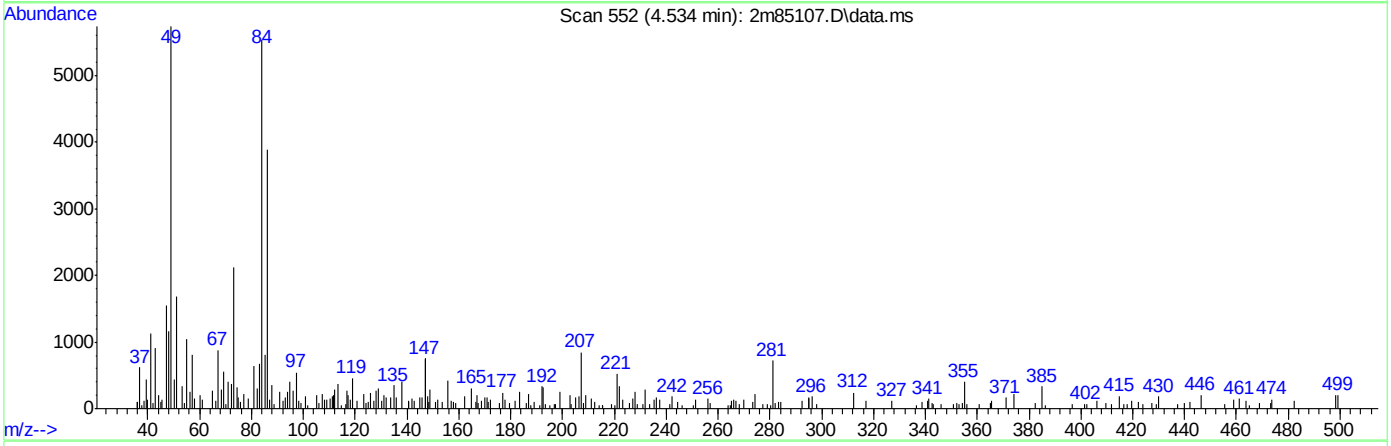
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85107.D
Acq On : 28 Jun 2016 9:52 am
Operator : ashleyn
Sample : dftpp
Misc : op94766,e2m3754
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 10:02:41 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85107.D\data.ms

(2) ddt

4.534min (-4.534) 0.00

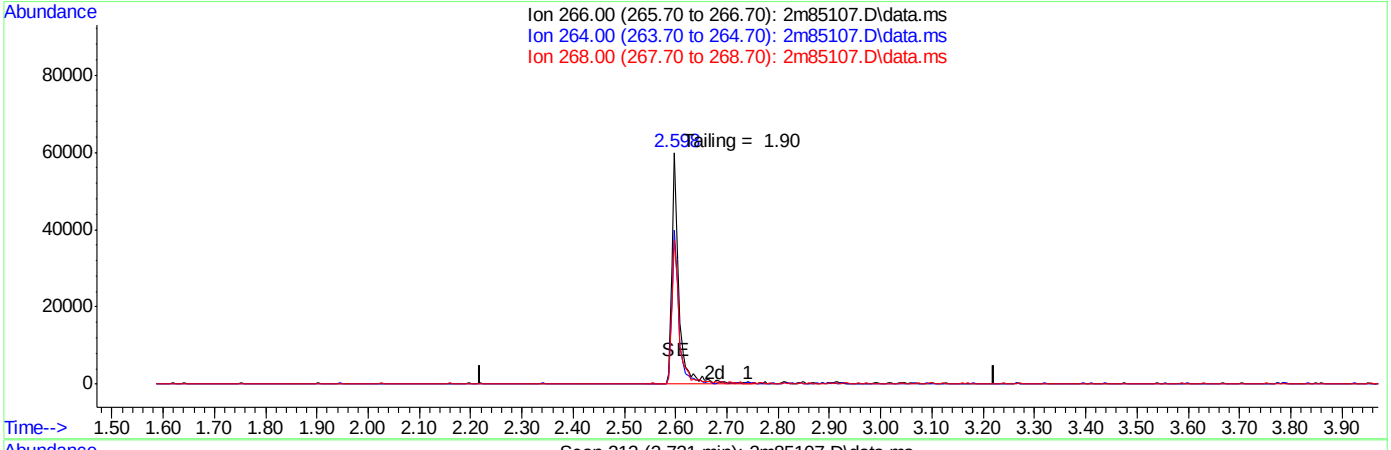
response 0

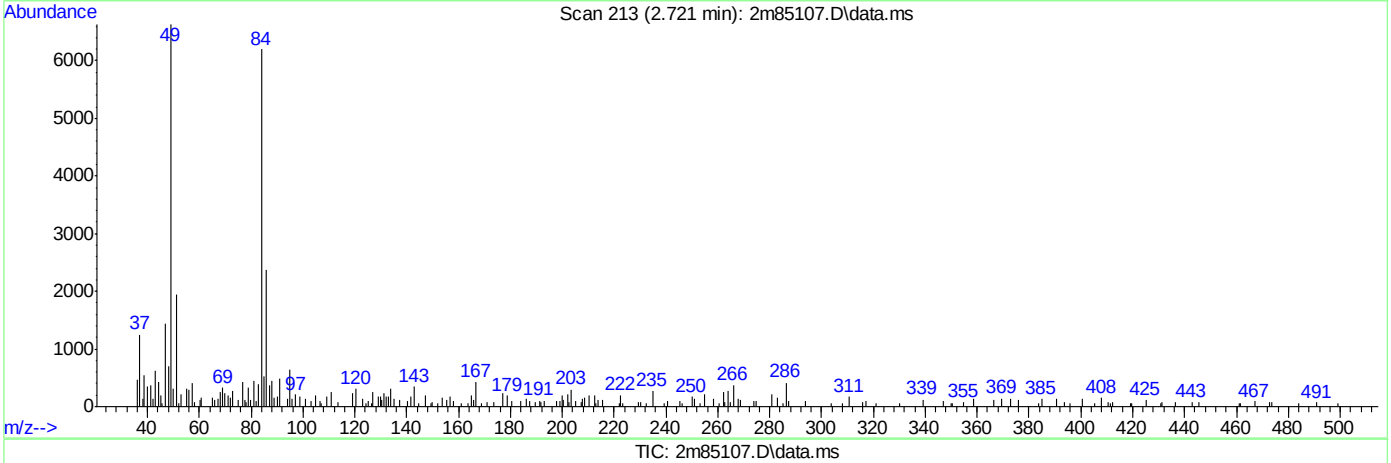
Ion	Exp%	Act%
235.00	100	0.00
165.00	67.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85107.D
Acq On : 28 Jun 2016 9:52 am
Operator : ashleyn
Sample : dftpp
Misc : op94766,e2m3754
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 10:02:41 2016
Quant Method : C:\msdchem\1\METHODS\dftpp2m.M
Quant Title : Semi Volatile GC/MS,zb-5msi30mx .25mmx .25umMon TuThu Jun 09 16:42:34 2016
QLast Update : Thu Jun 09 16:42:34 2016
Response via : Initial Calibration





TIC: 2m85107.D\data.ms

(3) Pentachlorophenol

2.721min 0.00 d

response 0

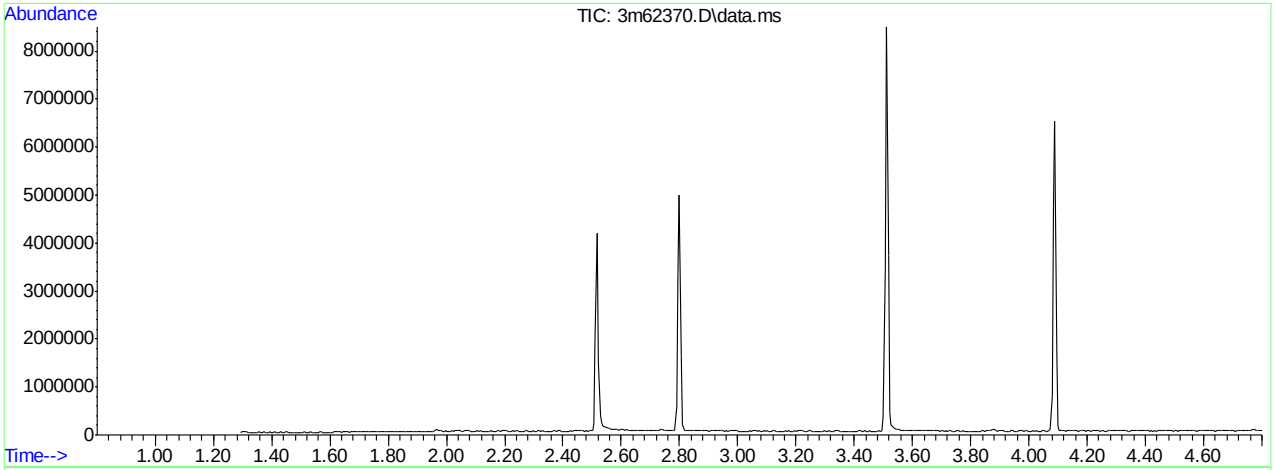
Ion	Exp%	Act%
266.00	100	0.00
264.00	62.40	0.00
268.00	62.70	0.00
0.00	0.00	0.00

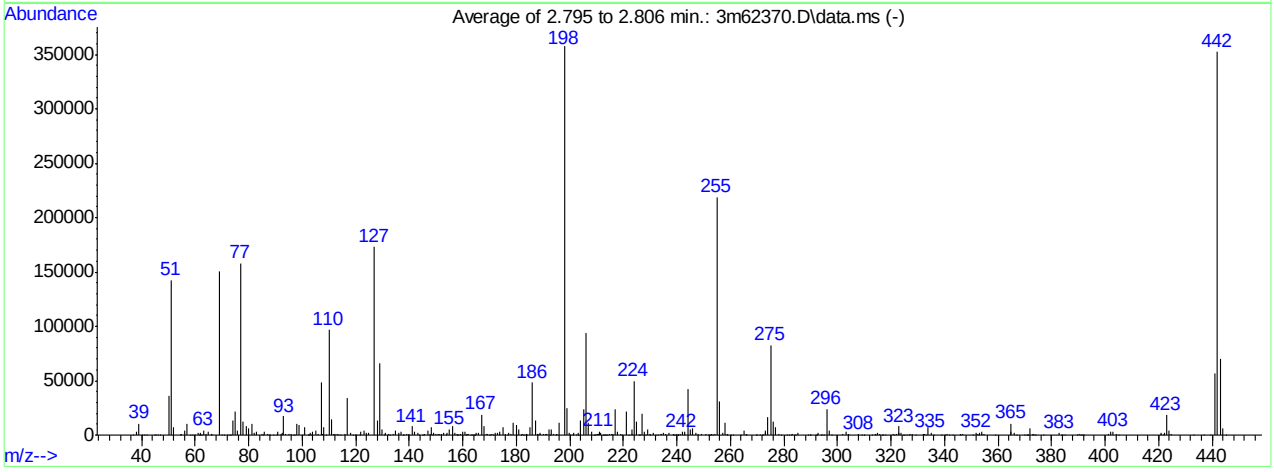
SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E3M2942\3m62370.D Vial: 1
Acq On : 20 Jun 2016 6:23 pm Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2942 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 282, 283, 284; Background Corrected with Scan 277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.9	142639	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.2	150640	PASS
70	69	0.00	2	0.1	131	PASS
127	198	40	60	48.4	172819	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	357376	PASS
199	198	5	9	6.9	24760	PASS
275	198	10	30	23.2	82808	PASS
365	198	1	100	3.0	10751	PASS
441	443	0.10	100	81.1	56707	PASS
442	198	40	100	98.5	352192	PASS
443	442	17	23	19.8	69907	PASS

3m62370.D DFTPP3M.M Tue Jun 21 11:56:21 2016 RPT1

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	81	50.95	142639	61.80	123	72.00	164
38.05	2922	52.00	7282	62.05	2203	72.90	318
39.05	10468	54.30	172	62.30	126	73.20	264
39.95	80	54.85	1188	63.00	4616	74.10	13505
41.00	125	56.00	4341	64.15	978	74.95	21173
41.95	215	57.00	9978	64.95	3519	75.95	4041
44.90	34	58.00	490	65.95	893	77.00	157806
45.10	350	59.00	75	66.30	118	78.00	12745
45.80	155	60.00	273	69.00	150640	79.00	8110
46.95	282	61.05	1733	69.95	131	80.00	6362
50.00	36500	61.30	205	70.80	217	81.00	10543

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.95	2382	91.95	852	101.00	6995	108.80	180
83.05	3250	92.30	1594	101.95	371	110.00	96445
84.95	1052	92.95	17258	102.70	169	111.00	14291
85.40	450	93.90	826	103.10	1592	111.85	799
86.00	2956	94.95	823	103.40	230	112.10	1251
87.00	635	96.00	826	103.95	3589	113.05	901
87.65	336	96.80	245	105.00	3670	113.60	114
87.95	435	97.20	170	105.75	1045	114.20	134
89.00	214	98.00	10067	107.00	48177	115.90	1394
90.30	76	98.95	9073	107.70	689	117.00	33889
90.90	2732	99.95	15	108.05	7306	117.95	2512

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.05	167	129.95	5599	138.95	725	148.05	7136
119.90	211	130.60	88	140.00	961	148.80	217
120.20	257	131.00	1608	141.05	7966	149.10	1948
121.25	400	132.10	601	141.90	3111	150.10	561
122.00	2792	132.75	457	143.05	2082	150.90	591
122.95	4336	133.95	1189	143.80	445	151.10	711
124.00	2571	134.95	4348	144.70	347	152.00	1233
124.95	2035	136.00	2369	145.20	502	152.90	2618
127.00	172819	137.00	2942	145.85	1117	153.80	286
128.05	13667	137.70	305	146.95	4290	154.10	1957
129.00	66066	137.90	79	147.70	640	155.05	5168

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.10	8110	162.90	210	169.80	187	177.10	2491
157.10	1726	163.10	303	170.00	459	177.85	1074
157.80	730	163.70	88	170.75	846	178.95	11672
158.00	436	164.00	439	171.30	398	180.05	9127
158.20	210	164.75	115	171.90	1708	181.00	5190
158.95	1578	165.05	2525	172.95	1779	181.80	204
160.05	2767	165.95	2407	173.70	639	182.10	587
160.90	3348	167.00	18778	173.95	3084	182.70	380
161.10	278	167.95	8389	175.05	7672	183.10	260
161.60	631	168.95	1056	175.90	1518	183.70	87
162.05	918	169.20	1080	176.70	556	184.00	1025

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.05	7416	192.60	247	201.50	2448	210.05	683
186.00	48421	193.00	5254	202.10	153	210.30	854
187.05	13505	193.90	1480	203.00	2366	210.65	1549
187.90	607	194.60	368	203.20	472	211.05	3549

188.20	790	195.05	977	204.05	13105	211.30	1823
188.90	821	196.05	11875	205.00	24095	212.15	257
189.05	1597	197.95	357376	206.00	93416	212.90	129
189.95	964	198.95	24760	207.00	11298	213.10	150
190.90	685	199.95	1680	208.00	3223	213.40	124
191.25	1360	200.20	167	209.00	483	213.80	101
192.00	4726	200.80	512	209.25	427	214.95	916

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.70	1394	225.00	12558	232.75	352	240.50	159
216.10	637	225.80	277	233.90	583	241.10	1312
216.95	23913	226.20	371	234.10	992	242.05	3028
217.95	2968	227.00	19756	234.95	1813	242.85	2728
219.00	623	227.90	3006	235.95	1256	243.10	563
219.60	337	228.10	382	236.85	1605	244.00	42307
221.00	21331	229.00	4780	238.70	181	244.95	4791
221.85	333	229.90	172	238.85	621	246.00	6683
223.00	5497	230.05	920	239.20	460	247.05	1964
223.20	775	231.00	1729	239.85	662	247.85	674
224.00	49685	231.95	198	240.20	104	249.00	1582

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.85	593	258.70	190	271.75	357	281.85	336
251.90	328	258.95	1528	272.10	256	282.60	104
252.10	193	260.05	255	272.90	1815	283.00	888
252.50	178	260.85	350	273.10	4651	283.75	329
253.10	782	263.90	365	273.90	16215	284.20	204
253.40	181	264.95	4564	275.00	82808	285.05	1855
254.00	719	265.90	365	276.00	11994	289.10	161
255.00	218565	266.10	1406	277.00	7442	289.70	216
256.00	31285	269.60	146	278.00	1153	290.00	289
257.00	2298	269.90	293	279.00	298	291.80	390
258.00	11532	270.90	505	281.00	258	292.20	109

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.95	2121	307.90	591	318.00	75	327.05	1322
294.00	131	309.05	376	320.90	632	327.90	1184
294.20	396	309.80	385	321.20	188	329.20	156
294.95	353	312.80	210	322.20	636	332.05	954
296.00	23883	314.00	1059	322.90	2035	332.75	743
296.95	3927	314.20	294	323.05	7794	333.10	463
297.80	323	314.85	1132	323.95	1940	334.00	7000
301.95	577	315.10	2317	324.70	166	334.95	2391
303.05	3200	315.85	1506	325.20	115	336.10	100
303.90	348	316.70	105	325.90	121	338.70	110
304.20	662	317.05	238	326.80	488	340.10	119

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.00	1084	353.80	798	371.20	212	389.65	320
341.85	394	353.95	2689	371.95	5975	390.15	684
342.90	93	354.90	1057	372.80	328	390.70	314
345.80	212	358.80	84	373.05	1402	391.15	438
346.00	1441	364.80	2816	373.50	151	391.75	391
346.90	696	365.00	10751	374.10	201	392.10	177
350.75	364	365.90	1840	376.80	157	401.05	704
351.90	2565	366.90	257	382.95	2052	402.00	2958
352.10	851	369.85	248	383.80	448	403.05	3479
352.50	89	370.80	176	384.15	260	404.00	993
352.95	2361	371.00	447	384.95	183	405.00	151

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms

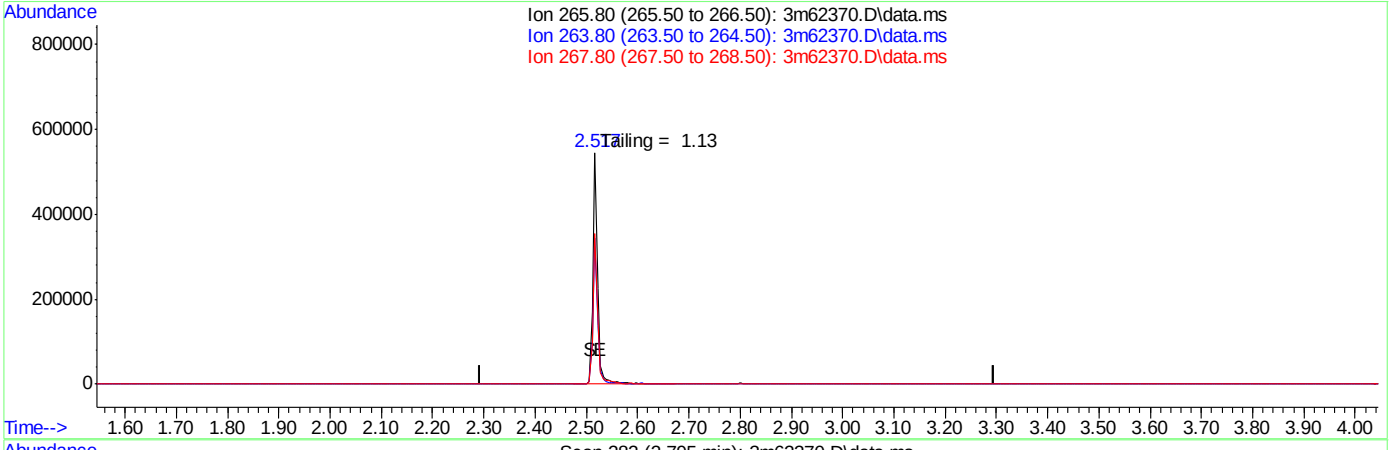
dftpp
Modified:subtracted

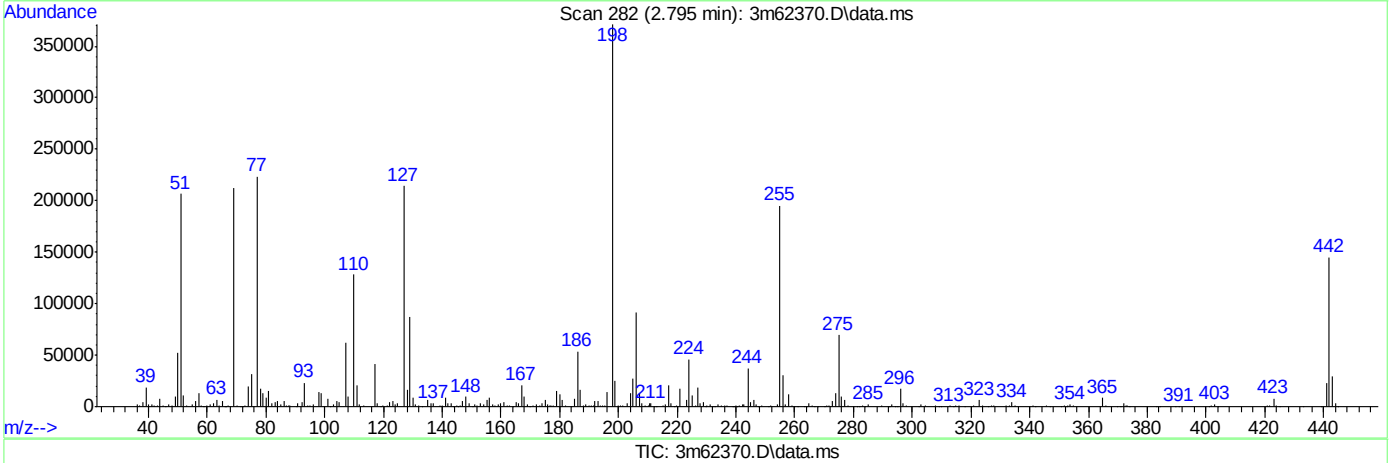
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.85	1860	442.00	352192				
421.10	944	443.00	69907				
421.80	317	444.05	6076				
422.05	2008	445.05	531				
423.00	18110						
424.05	3856						
424.90	624						
433.10	106						
436.90	81						
439.20	110						
441.00	56707						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 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: 3m62370.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

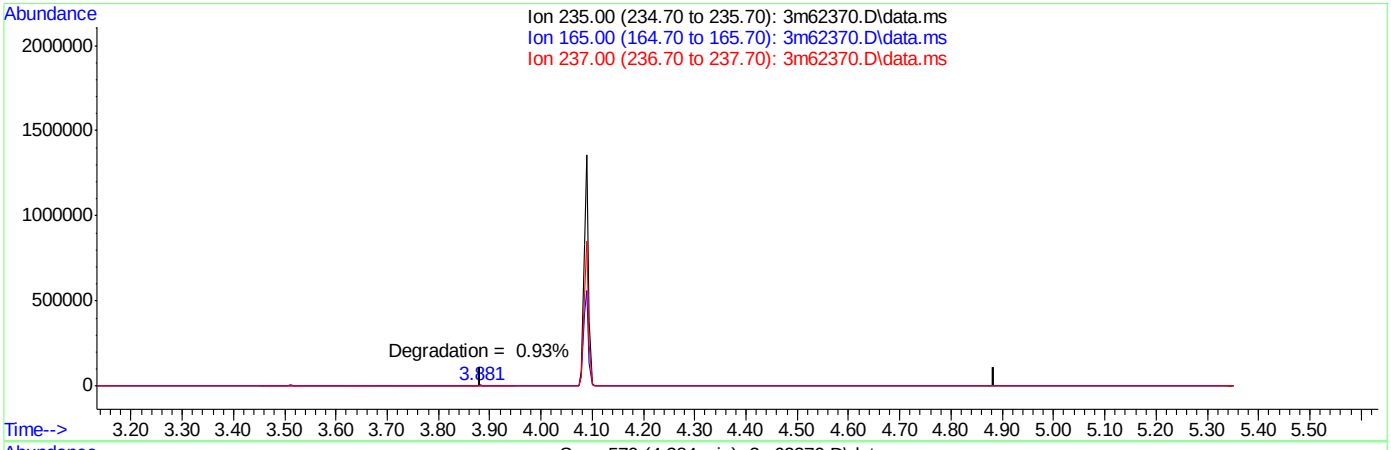
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

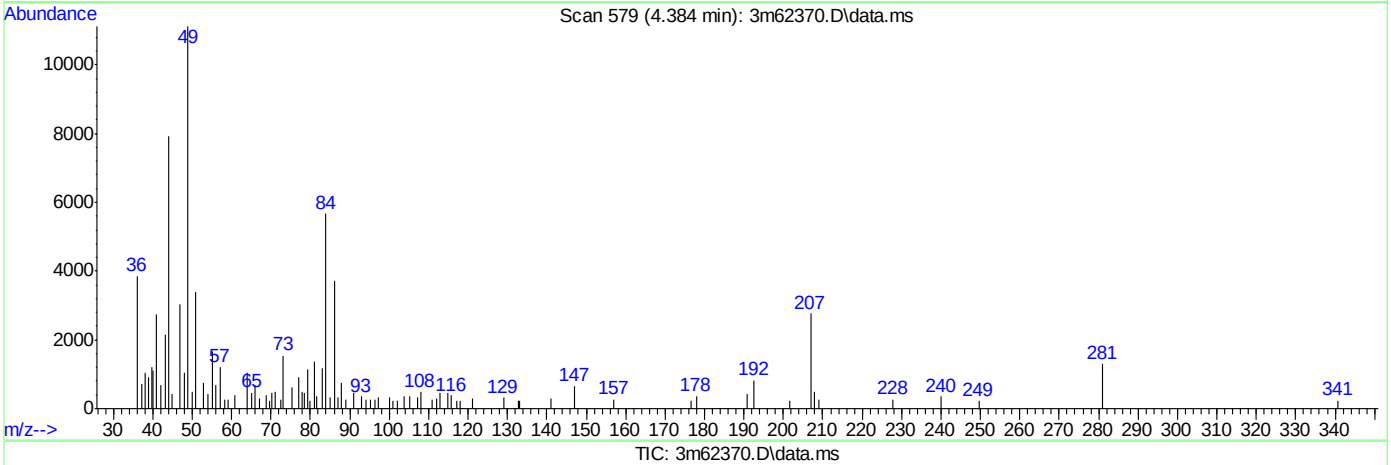
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 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: 3m62370.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

7.5.3.2

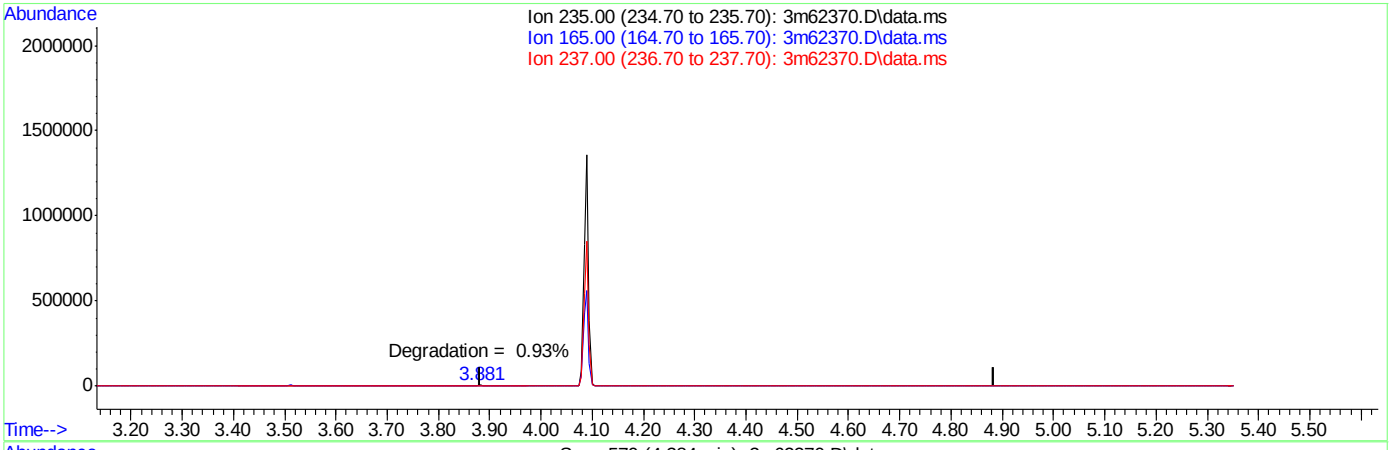
7

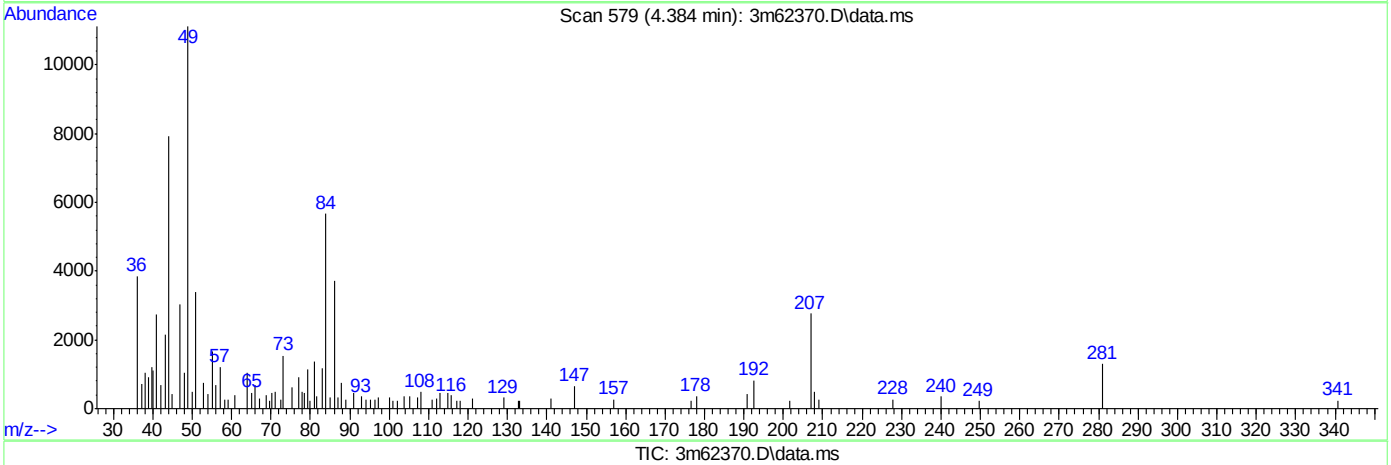
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 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: 3m62370.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

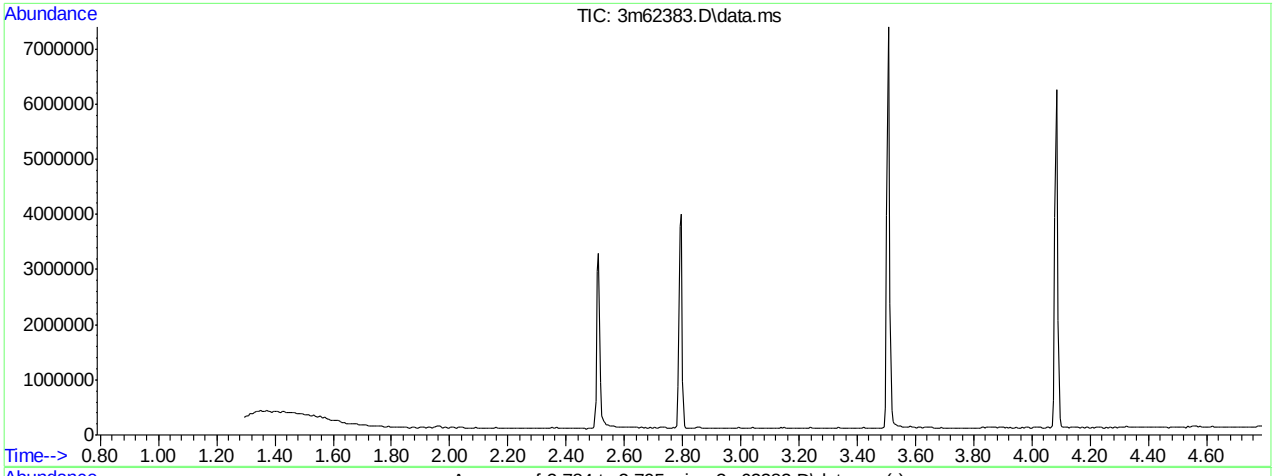
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E3M2943\3m62383.D Vial: 1
Acq On : 21 Jun 2016 9:06 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2943 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 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	44.1	139176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.7	143977	PASS
70	69	0.00	2	0.6	932	PASS
127	198	40	60	50.3	158565	PASS
197	198	0.00	1	0.6	1950	PASS
198	198	100	100	100.0	315368	PASS
199	198	5	9	6.7	21167	PASS
275	198	10	30	21.7	68458	PASS
365	198	1	100	3.2	9982	PASS
441	443	0.10	100	86.4	40278	PASS
442	198	40	100	81.7	257583	PASS
443	442	17	23	18.1	46645	PASS

3m62383.D DFTPP3M.M Tue Jun 21 12:00:52 2016 RPT1

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	158	50.00	36845	59.00	259	66.10	102
36.80	620	50.95	139176	59.80	160	66.85	100
37.80	732	52.10	6334	60.60	317	68.95	143977
38.05	1836	53.05	661	61.10	1218	70.05	932
39.00	10430	55.00	680	61.95	2060	71.00	770
41.00	224	55.90	3417	63.05	5144	71.40	152
41.95	971	56.90	1778	63.70	91	71.85	470
43.20	1060	57.05	8471	64.05	515	72.80	289
44.00	349	57.90	726	65.10	2154	72.95	983
44.90	163	58.40	198	65.70	111	74.00	13648
47.90	453	58.70	100	65.90	94	75.05	20664

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.10	5702	87.90	97	97.70	426	107.95	6504
77.05	152235	88.90	463	98.00	9895	108.90	599
78.10	10624	90.70	427	98.95	7962	110.00	86011
79.05	8180	90.90	1887	100.05	948	110.95	13153
80.00	6858	91.30	345	100.90	5310	112.00	1441
80.90	9553	91.85	1129	101.90	462	112.85	272
81.80	243	92.10	1225	102.95	2134	114.80	283
82.10	1948	93.00	14841	103.80	1735	115.90	1446
83.00	2239	94.00	1294	104.00	876	117.00	31419
85.00	1107	95.00	446	104.90	3013	117.95	1864
86.95	1944	95.95	697	107.00	45741	118.95	260

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.30	157	130.00	4265	136.95	1850	145.00	326
120.10	1022	130.90	146	138.10	808	145.70	79
120.80	488	131.10	521	138.90	190	146.05	1308
122.00	2800	132.05	373	139.90	352	147.00	3094
123.05	3643	132.80	96	141.05	6687	148.00	8177
123.85	1976	133.30	404	141.80	224	149.05	1334
124.95	1145	133.95	1777	142.05	2273	150.00	570
125.20	748	135.05	4351	142.80	779	151.05	1104
127.00	158565	135.70	293	143.10	824	151.65	1063
128.00	12696	136.00	1705	144.05	722	152.10	286
128.95	54803	136.80	362	144.70	223	152.70	224

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	2013	161.95	938	170.40	225	176.15	2028
154.00	2323	162.80	307	170.60	342	176.95	2697
155.00	3003	163.90	182	171.30	323	177.70	287
156.00	7610	164.80	993	171.80	594	178.10	81
157.00	410	165.00	1177	172.10	719	179.00	11220
157.20	623	165.80	2288	172.60	614	180.00	7048
157.95	917	166.95	14095	172.80	505	180.80	479
159.10	1545	167.70	458	173.95	3411	181.00	2937
159.90	2680	168.10	6898	174.80	415	181.90	503
161.05	2909	168.90	194	175.00	5857	182.30	300
161.80	332	169.15	1191	176.00	74	183.15	311

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.90	270	190.60	87	197.95	315368	207.00	8927
184.10	601	190.85	938	199.00	21167	207.80	178
185.00	5439	191.20	454	199.95	1858	207.95	2519
186.00	40353	191.95	2908	200.75	507	208.90	857

186.90	1043	192.90	2125	201.50	2813	209.55	281
187.05	10716	193.10	1882	202.10	207	209.90	632
188.05	1251	193.90	850	202.80	1526	210.30	839
188.80	321	194.90	483	203.00	1508	211.05	2831
189.05	2343	195.20	677	204.05	12403	211.80	451
189.80	79	196.15	9631	205.00	18716	212.00	426
190.20	244	196.80	1950	206.00	74707	213.00	307

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
214.00	124	223.00	4807	232.90	401	241.00	1124
214.85	753	224.00	46842	233.20	113	242.15	1759
215.90	1229	225.00	11356	233.95	1366	243.00	2927
216.95	18685	226.10	900	234.90	1489	244.05	33998
217.80	792	227.00	15932	235.20	94	244.95	4470
218.05	2461	227.95	2529	235.60	309	245.30	274
219.10	368	228.60	173	236.15	637	246.05	5386
219.80	127	228.95	3943	237.05	1258	246.85	1529
221.00	16059	229.90	714	238.05	214	247.10	405
221.90	1656	231.05	1475	239.05	667	248.60	317
222.80	553	231.90	304	240.00	457	249.00	1107

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	354	258.95	1855	270.10	631	282.00	212
251.10	423	259.90	297	271.15	401	282.50	103
251.70	140	260.90	265	271.60	400	282.90	711
252.00	341	261.20	219	272.00	410	283.70	85
252.95	656	263.60	338	272.90	5346	284.15	298
253.90	792	263.85	1	274.05	13469	285.05	943
255.00	170349	264.20	432	275.00	68458	286.00	326
256.00	26099	265.05	3502	276.05	9161	289.00	211
256.80	220	267.20	116	276.95	6165	289.75	188
257.10	1778	267.70	274	277.95	1099	291.30	79
258.00	8832	269.60	97	278.70	94	292.20	73

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.80	107	303.80	155	317.00	175	329.80	156
293.15	1237	304.00	322	320.60	232	331.80	311
293.95	585	308.05	292	321.15	848	332.10	184
294.95	383	308.90	214	321.80	122	333.10	650
295.95	20889	310.00	436	323.05	7420	334.05	4444
296.80	105	313.00	255	324.05	1502	335.00	1439
297.00	3009	313.90	334	325.10	164	340.10	111
297.90	220	314.20	247	326.85	1102	340.60	202
300.80	132	314.70	1068	327.95	496	340.90	260
302.00	684	315.00	924	328.30	165	341.15	384
303.00	2375	316.00	1435	329.10	109	341.80	174

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
343.10	76	365.80	934	389.75	437	411.50	75
346.00	1359	366.10	318	390.20	157	420.50	82
346.75	335	367.10	103	390.50	142	420.80	712
351.80	120	370.20	95	391.05	336	421.00	1655
352.00	3238	370.80	99	391.50	90	421.95	1459
353.00	1894	371.10	443	392.15	467	423.05	12517
353.95	2127	372.00	1733	400.80	410	424.05	2598
355.15	595	372.20	2160	402.10	1541	424.85	424
359.10	163	372.95	1034	402.60	164	430.80	171
361.20	130	383.00	1589	402.95	2543	437.20	175
364.90	9982	384.20	237	404.05	847	438.70	123

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms

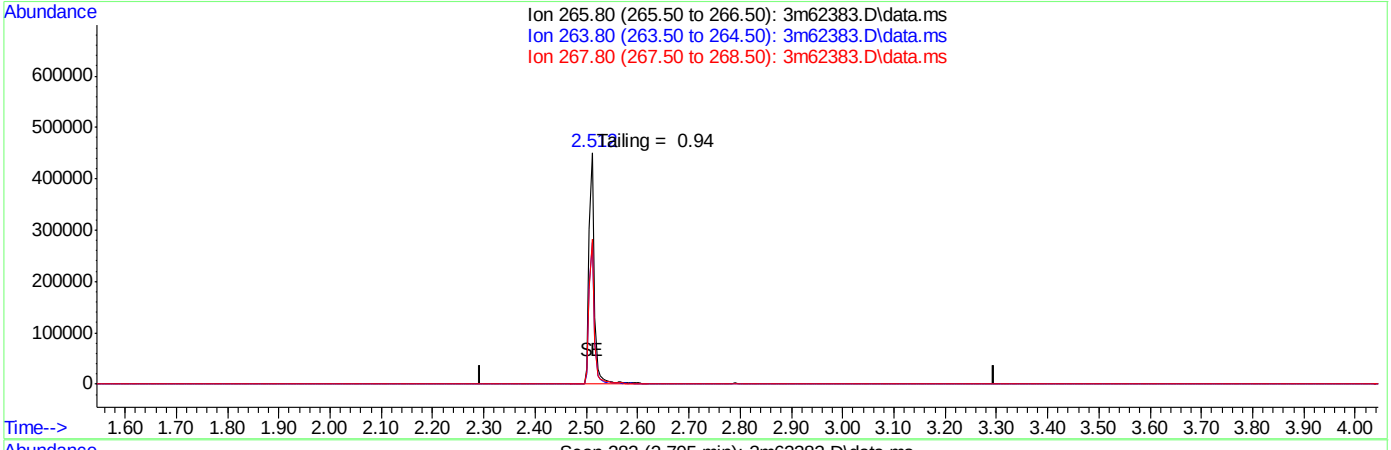
dftpp
Modified:subtracted

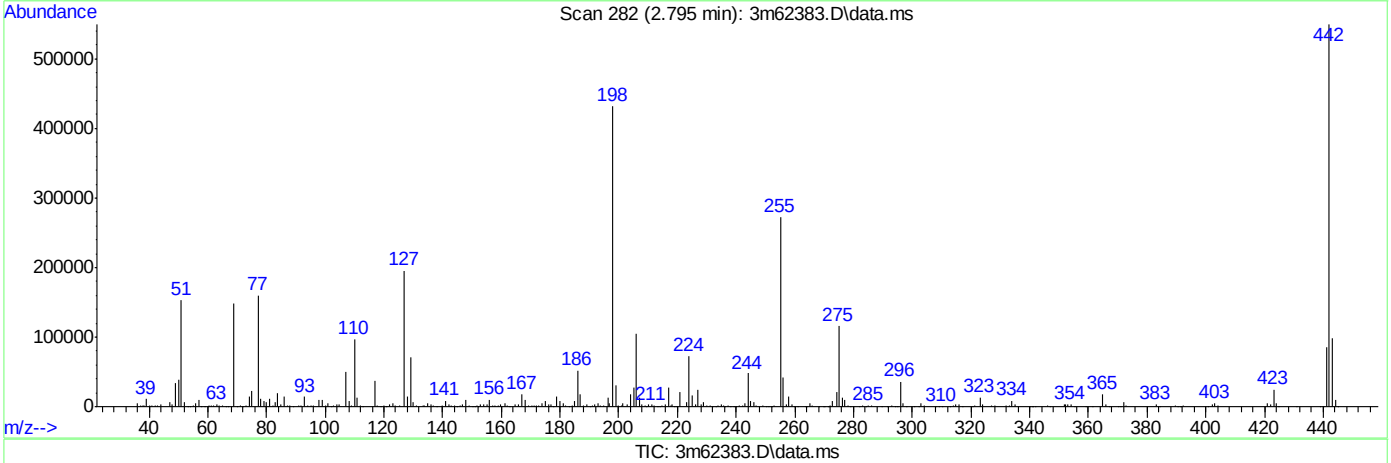
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
440.00	182						
441.00	40278						
442.00	257583						
443.00	46645						
443.90	101						
444.10	5040						
444.80	123						
445.10	286						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 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: 3m62383.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

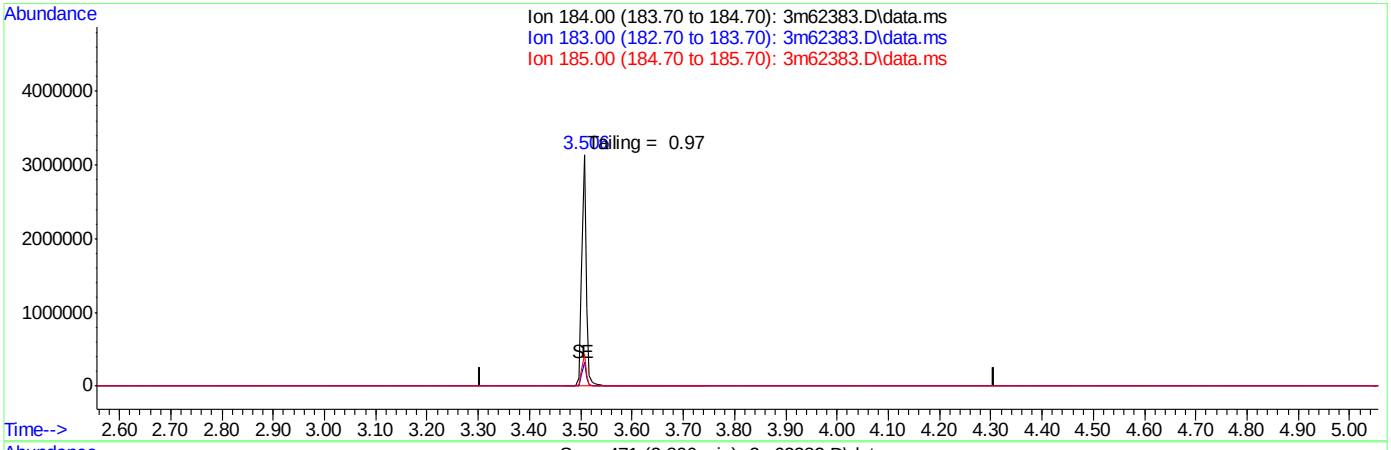
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

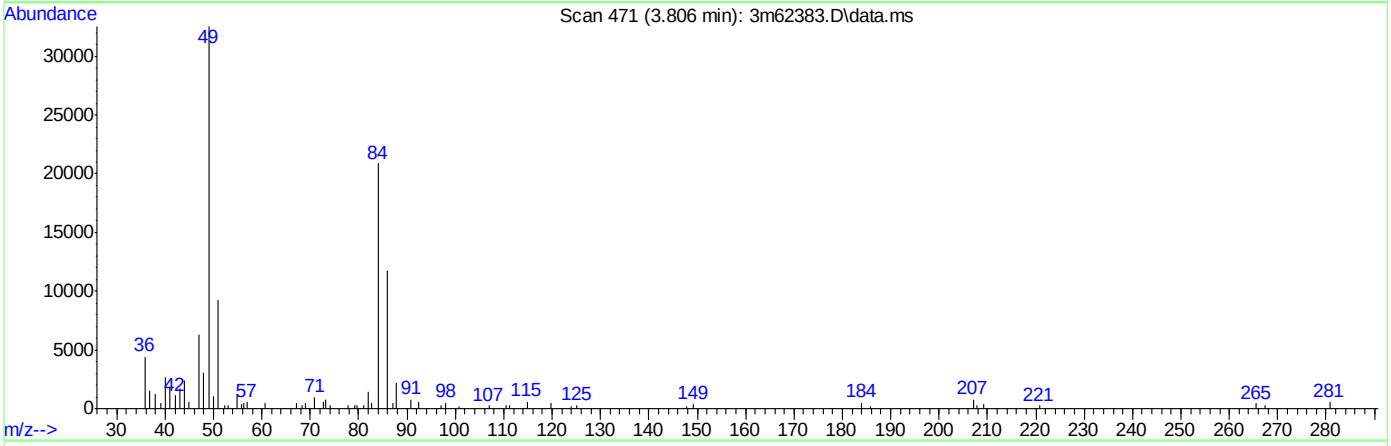
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 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: 3m62383.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

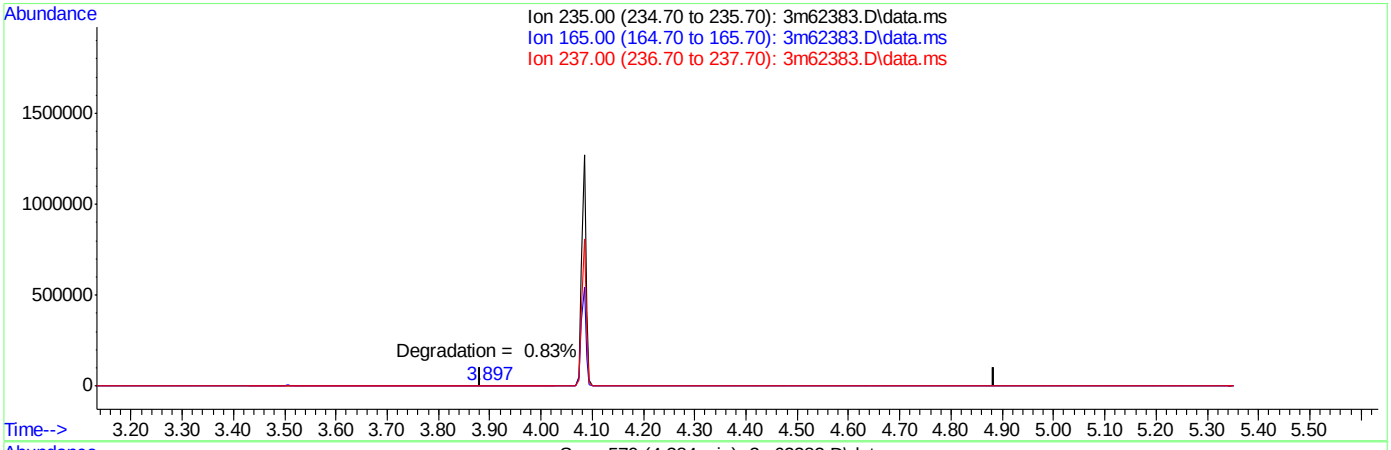
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

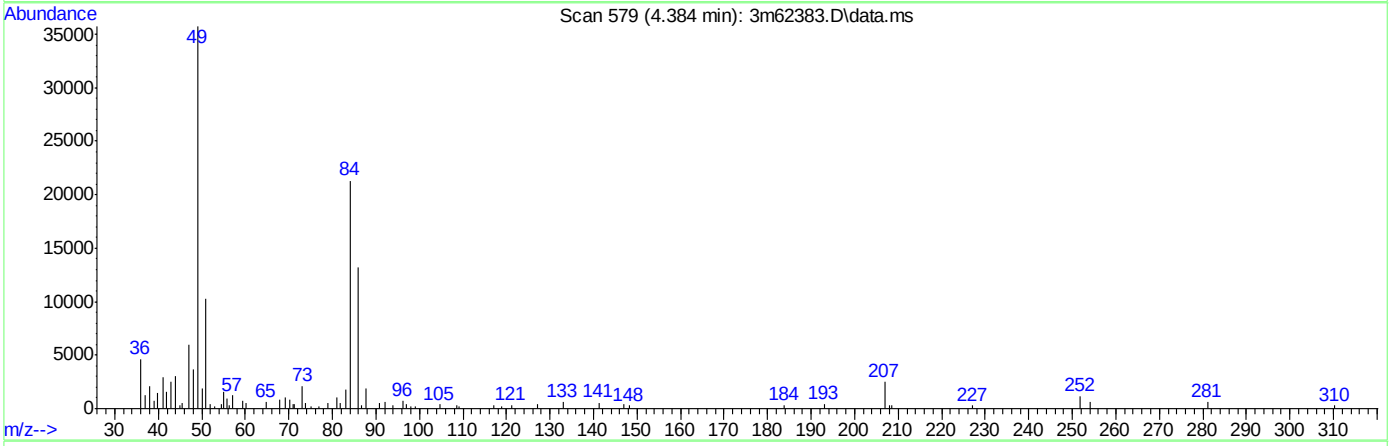
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 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: 3m62383.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

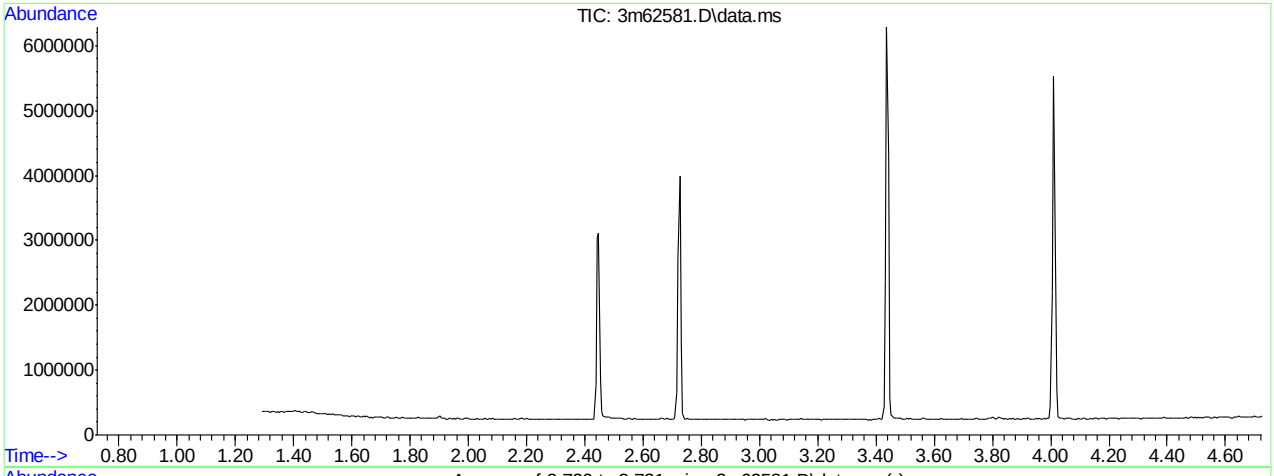
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E3M2954\3m62581.D Vial: 1
Acq On : 28 Jun 2016 11:21 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op95046a,e3m2954 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 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	36.6	102397	PASS
68	69	0.00	2	0.2	208	PASS
69	198	0.00	100	41.8	116907	PASS
70	69	0.00	2	0.3	313	PASS
127	198	40	60	48.3	135187	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	280013	PASS
199	198	5	9	7.1	19854	PASS
275	198	10	30	23.6	66165	PASS
365	198	1	100	3.7	10264	PASS
441	443	0.10	100	80.2	42853	PASS
442	198	40	100	99.2	277669	PASS
443	442	17	23	19.2	53416	PASS

3m62581.D DFTPP3M.M Tue Jun 28 15:25:39 2016 RPT1

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	2638	53.05	406	63.90	425	72.20	105
35.90	406	53.95	219	64.85	637	73.00	142
37.00	197	55.20	548	65.10	938	73.30	295
38.05	1019	55.95	2935	65.30	135	74.05	10136
39.00	7857	57.00	7266	65.90	310	75.00	16841
40.20	418	58.20	321	66.80	155	76.00	2342
41.00	222	58.90	128	67.10	62	77.05	124808
42.00	203	59.10	124	67.80	208	78.05	8347
50.00	27409	60.85	1456	68.95	116907	78.95	6901
51.00	102397	61.95	1642	69.90	313	80.00	5306
52.05	5234	63.00	4108	72.00	158	81.00	7858

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.95	2413	95.05	480	105.70	125	115.30	170
83.05	1267	95.85	827	106.00	751	116.10	1458
84.95	1597	97.20	151	107.00	35513	117.00	25647
85.90	261	97.95	8162	108.00	5906	117.95	2537
86.90	660	99.00	6438	109.00	417	118.90	416
88.80	107	100.00	536	110.00	69291	119.95	608
89.05	193	101.00	4426	111.00	10805	121.10	2
90.90	1451	102.50	129	112.00	1097	121.90	845
92.00	2440	102.90	1648	112.70	202	122.10	1080
93.00	11469	103.95	3003	113.10	199	122.95	3331
93.95	1109	104.95	2757	114.20	85	123.60	161

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.00	1662	132.60	125	139.80	302	147.10	3034
125.00	1488	132.80	142	140.10	331	147.60	528
125.20	216	134.00	1698	141.05	5317	147.95	6590
125.80	215	135.00	3522	141.85	1345	149.00	1451
127.00	135187	136.05	1277	142.10	813	149.80	246
127.95	9826	137.05	1774	142.60	402	150.15	514
129.00	50323	137.80	217	142.80	695	151.05	1111
129.80	297	138.10	724	143.25	835	151.65	637
130.05	3669	138.75	303	143.90	452	152.30	114
131.00	534	139.10	78	145.15	386	152.80	230
131.90	637	139.60	78	145.95	1008	153.00	1410

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.05	1398	162.50	125	169.75	357	176.90	2233
154.80	352	163.00	431	170.10	245	177.75	608
155.05	2848	163.80	267	170.70	363	178.00	138
156.00	4894	164.80	1596	171.15	602	178.95	8968
156.95	1013	165.10	246	171.80	632	180.05	5757
157.80	1340	165.90	2018	172.20	423	181.00	3344
158.95	856	166.10	187	172.95	1427	182.00	712
159.20	133	167.00	13187	174.00	2929	183.00	134
160.00	1900	168.00	7206	175.05	4908	183.40	123
161.00	3019	168.90	502	176.00	181	184.05	576
161.95	827	169.10	454	176.25	1646	185.05	4645

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.00	35760	196.00	8616	206.00	70741	216.10	1196
187.00	11445	197.95	280013	207.05	9135	217.00	16123
187.95	1258	198.95	19854	207.70	280	217.90	2570
188.85	2128	200.00	1475	208.00	1905	218.95	300

189.90	264	200.30	236	209.00	511	219.85	405
190.95	807	200.80	138	209.90	1037	221.00	17215
191.20	225	201.20	478	210.80	3253	221.85	2606
192.00	3395	201.50	1236	211.75	819	223.00	4637
193.00	3080	203.00	2238	213.10	362	224.00	39856
194.00	564	204.00	9490	214.95	966	225.05	9839
195.10	212	205.00	17232	215.90	662	225.80	166

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.10	409	235.95	1195	245.05	4022	252.75	860
227.00	16789	236.80	607	246.00	5782	253.50	730
227.95	2089	237.10	1012	247.05	1202	253.80	496
229.00	3449	239.00	701	247.85	348	255.00	164843
229.80	173	240.20	221	248.70	148	256.00	24053
230.00	258	240.95	396	248.95	984	257.00	1898
231.00	1593	241.20	509	249.60	126	258.00	9645
233.90	976	241.80	379	249.90	166	258.95	1279
234.50	202	242.05	1544	250.90	161	259.85	248
235.00	1153	243.05	2427	251.10	230	260.80	147
235.20	122	244.00	31678	252.10	104	263.20	92

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
263.70	114	272.05	637	283.00	503	295.05	305
263.90	169	273.00	4740	283.80	149	296.00	21045
265.00	3669	274.00	12885	283.95	421	297.00	2791
265.90	389	275.00	66165	284.70	205	300.90	81
267.20	150	276.00	9053	285.05	1124	301.20	172
267.60	213	277.00	5310	285.90	124	301.90	395
269.00	109	278.05	1024	287.90	157	302.30	130
269.70	131	279.00	106	288.90	107	303.00	2384
270.90	98	281.00	108	291.95	217	304.00	574
271.10	161	281.90	130	293.00	1442	304.90	84
271.70	86	282.80	210	294.00	583	307.90	192

Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
308.90	154	323.90	1609	334.00	4706	354.10	2194
310.00	221	325.20	76	335.00	1070	354.95	643
313.10	221	325.95	227	339.00	77	358.80	97
313.90	1057	326.70	326	340.10	130	359.10	123
315.05	1944	327.00	1011	341.05	1049	365.00	10264
316.00	1360	327.70	185	342.10	169	366.00	1873
317.10	121	328.05	681	345.85	1469	369.95	370
321.00	941	331.70	260	346.85	309	371.00	978
321.80	273	332.00	192	349.60	97	371.80	862
322.10	308	332.75	325	352.00	2375	372.10	3258
323.10	7248	333.00	402	353.05	1732	372.70	170

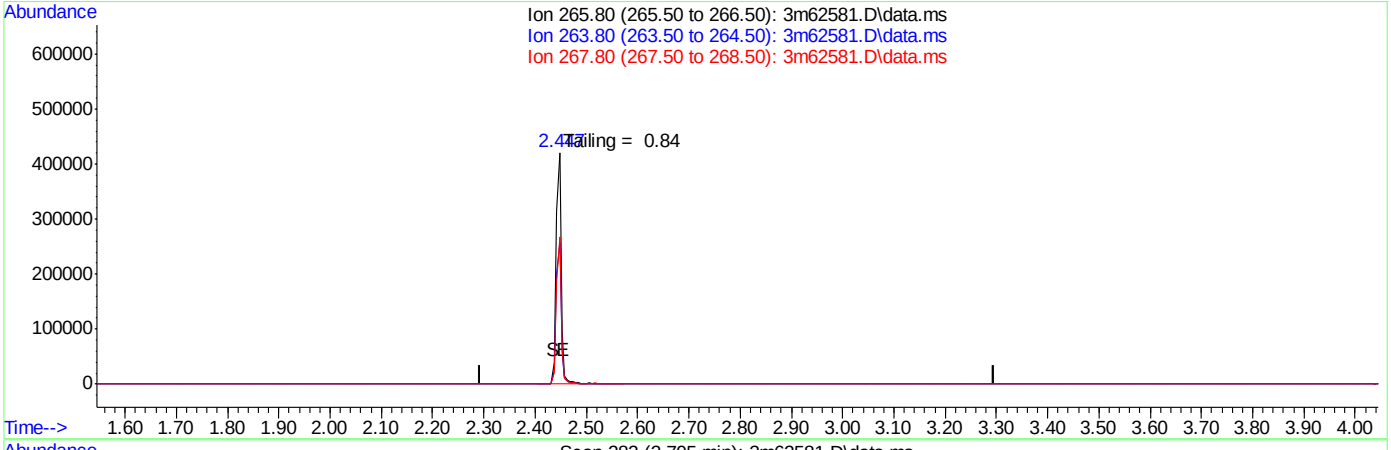
Average of 2.720 to 2.731 min.: 3m62581.D\data.ms
dftpp
Modified:subtracted

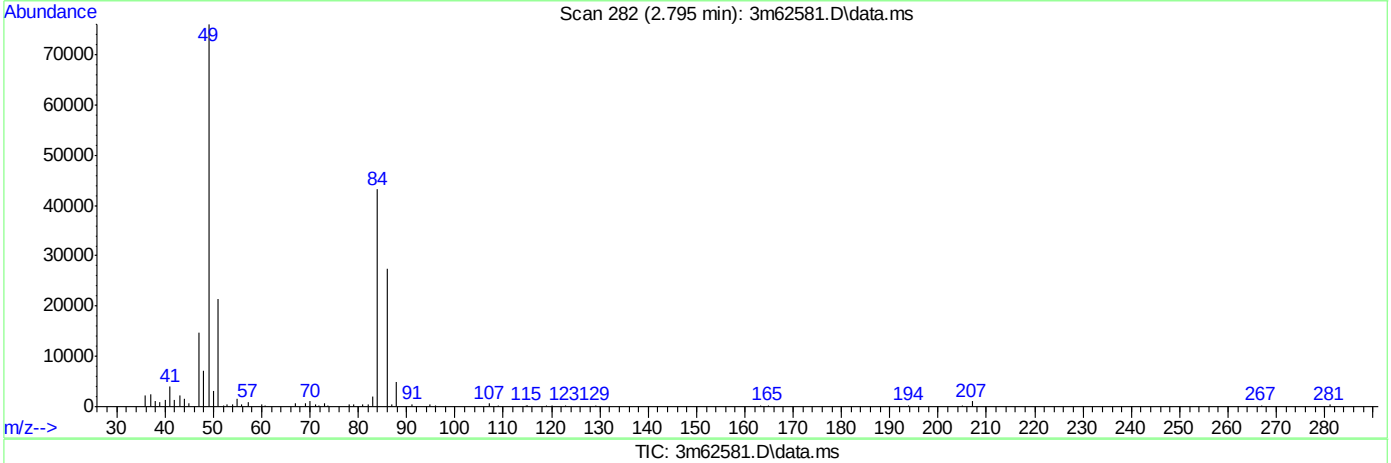
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.05	834	401.90	2010	436.50	109		
376.80	107	403.05	2562	439.00	330		
382.50	102	404.05	1043	441.00	42853		
383.00	815	405.15	307	442.00	277669		
383.95	289	410.05	186	443.00	53416		
385.05	206	420.80	304	443.95	4721		
390.15	728	421.00	1739	445.00	216		
391.00	318	422.00	1938	445.20	79		
391.50	81	423.00	14974				
392.10	175	424.05	3868				
400.90	218	425.00	290				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62581.D
Acq On : 28 Jun 2016 11:21 am
Operator : linseyk
Sample : dftpp
Misc : op95046a,e3m2954
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 11:25:48 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: 3m62581.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

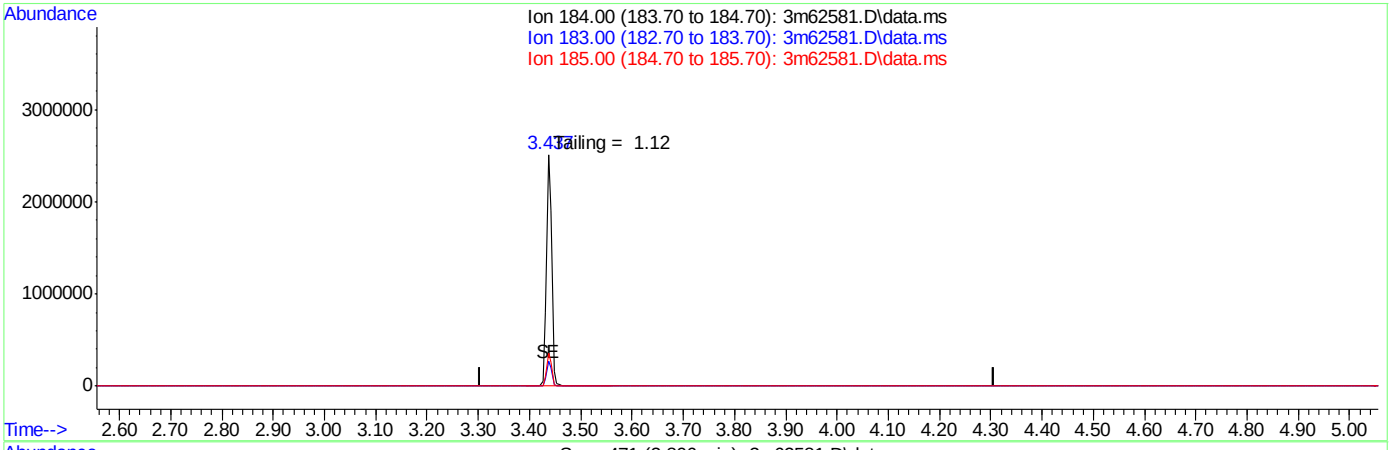
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

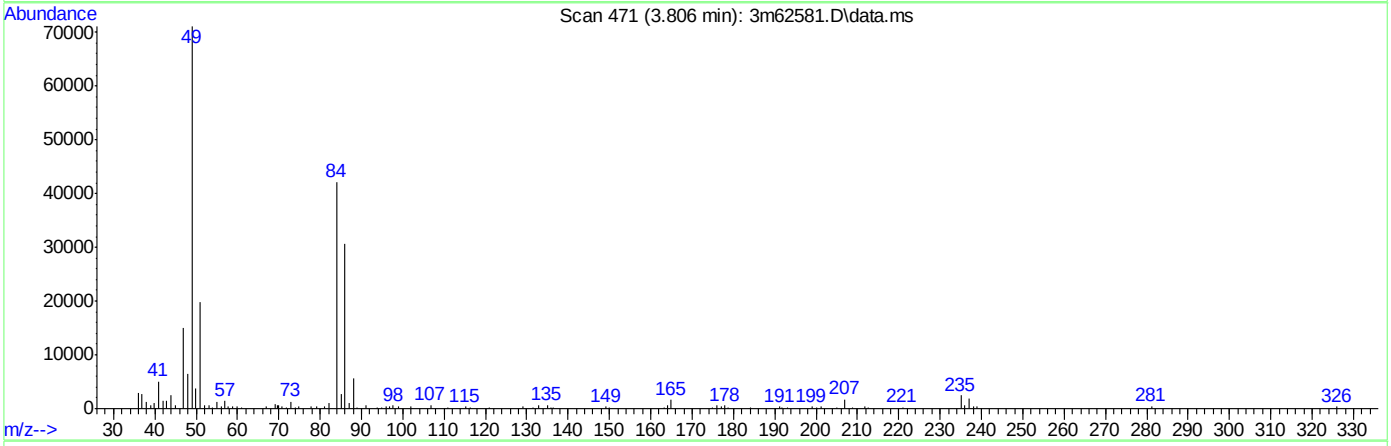
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62581.D
Acq On : 28 Jun 2016 11:21 am
Operator : linseyk
Sample : dftpp
Misc : op95046a,e3m2954
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 11:25:48 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: 3m62581.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

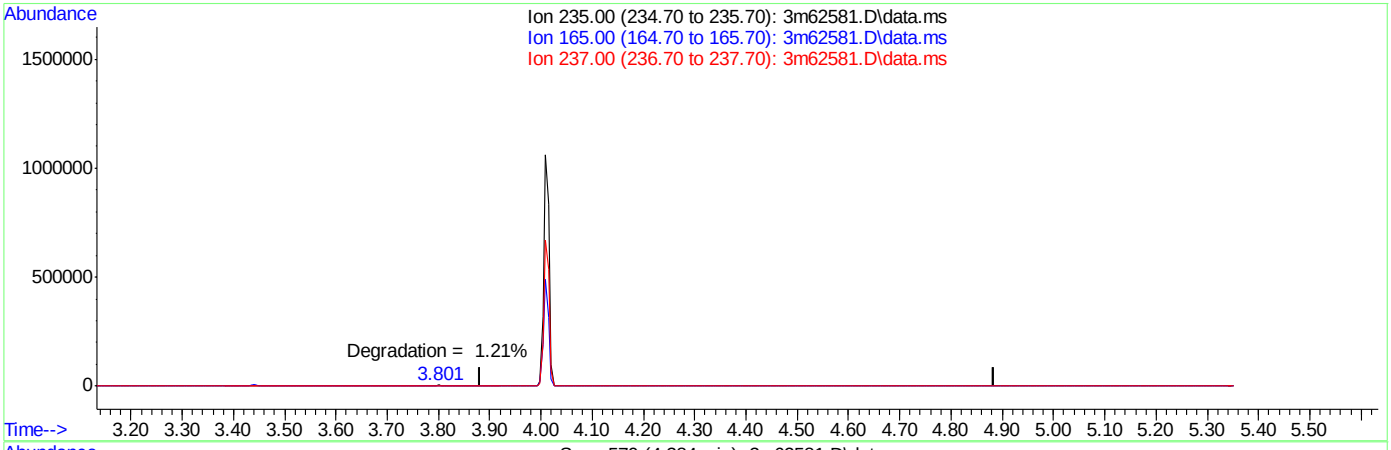
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

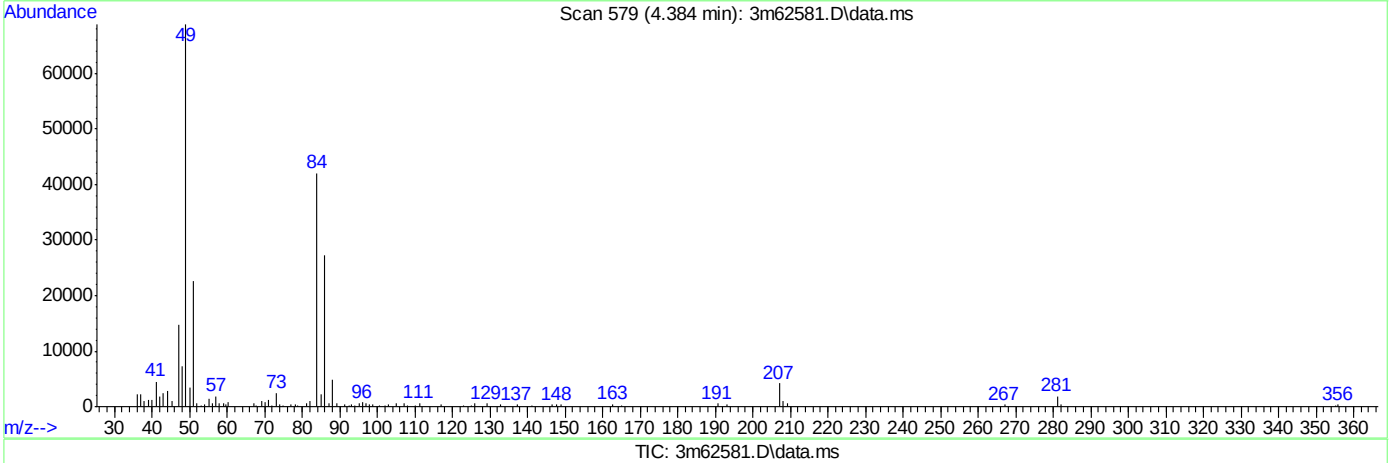
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62581.D
Acq On : 28 Jun 2016 11:21 am
Operator : linseyk
Sample : dftpp
Misc : op95046a,e3m2954
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 11:25:48 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: 3m62581.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

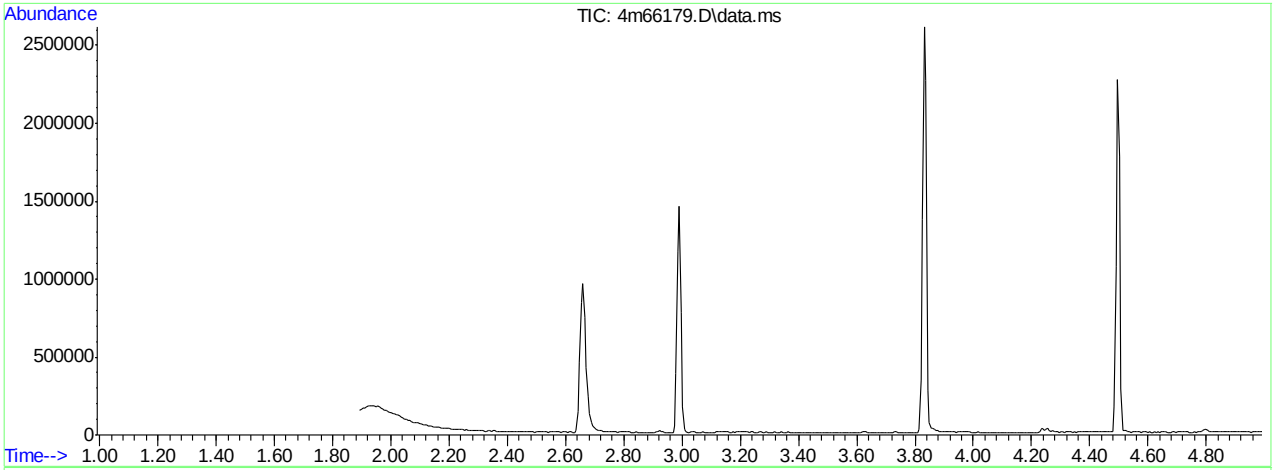
response 0

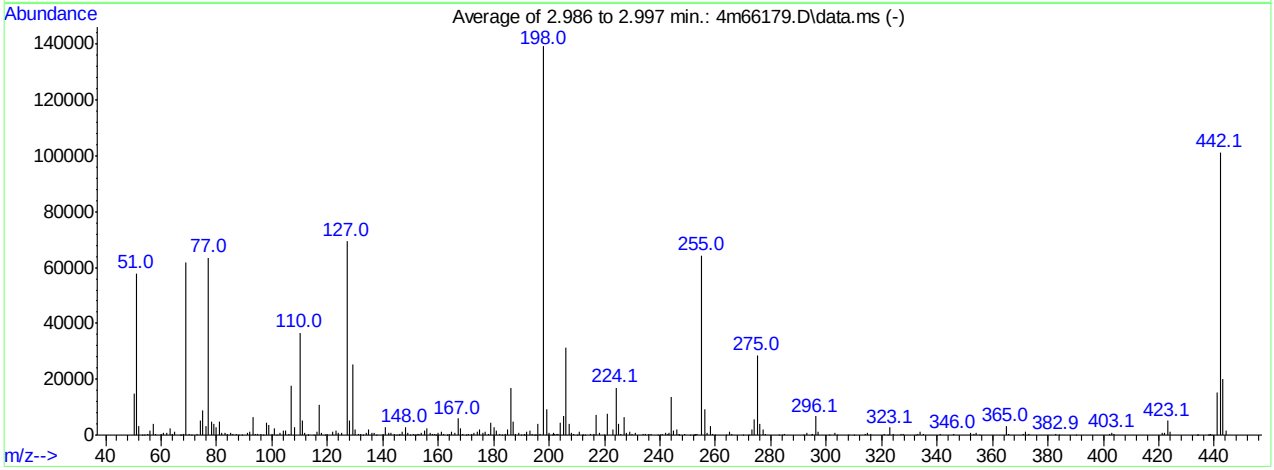
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M2974\4m66179.D Vial: 1
Acq On : 20 Jun 2016 10:06 pm Operator: ashleyd
Sample : dftpp Inst : GCMS4M
Misc : op94799a,e4m2974 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 192, 193, 194; Background Corrected with Scan 187

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	58020	PASS
68	69	0.00	2	0.9	561	PASS
69	198	0.00	100	44.3	61706	PASS
70	69	0.00	2	0.4	274	PASS
127	198	40	60	50.0	69656	PASS
197	198	0.00	1	0.3	387	PASS
198	198	100	100	100.0	139197	PASS
199	198	5	9	6.6	9146	PASS
275	198	10	30	20.6	28704	PASS
365	198	1	100	2.4	3401	PASS
441	443	0.01	100	76.6	15333	PASS
442	198	40	100	72.8	101275	PASS
443	442	17	23	19.8	20015	PASS

4m66179.D DFTPP4M.M Tue Jun 21 07:51:45 2016 MANAGER

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	15050	62.05	815	74.05	5262	85.00	663
51.05	58020	63.05	2325	75.00	8692	86.00	482
52.00	3099	64.10	428	76.10	3223	87.05	590
52.95	188	65.00	1155	77.05	63527	87.90	16
54.10	85	66.90	213	78.10	4774	89.00	69
55.10	356	67.20	127	79.00	3877	91.00	970
56.00	1758	68.00	561	80.00	2995	92.00	1263
57.00	3953	68.95	61706	81.00	4713	93.00	6468
57.90	312	70.00	274	82.00	899	93.95	419
60.05	246	71.05	13	82.95	969	94.95	346
61.00	760	72.95	342	84.00	339	96.05	393

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	13	108.00	3005	119.95	217	132.95	167
98.00	4455	110.00	36653	122.00	1075	134.00	734
99.00	3735	111.00	5105	123.00	1822	135.00	1922
100.00	412	111.95	656	124.00	723	136.00	808
101.00	2476	112.90	67	125.00	952	137.00	972
101.80	88	113.10	85	127.00	69656	137.70	118
103.00	876	115.00	194	128.00	5317	140.00	316
104.00	1542	116.05	1067	129.00	25164	141.00	2818
105.00	1487	117.00	10735	130.00	1825	142.05	1018
106.10	434	117.95	891	131.00	461	143.00	729
107.00	17644	118.90	187	132.05	308	144.00	230

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.05	166	153.00	580	162.95	161	174.00	1182
145.90	166	154.00	654	163.90	267	175.05	2222
146.05	350	155.05	1787	164.95	1144	176.00	814
147.00	1398	156.00	2581	166.00	843	176.95	1132
148.00	2948	157.00	637	167.00	5850	178.00	467
148.95	690	157.90	555	168.05	2419	179.00	4345
149.90	95	158.90	319	168.95	516	180.00	2995
151.00	491	159.10	105	170.00	190	181.00	1534
151.60	133	160.00	826	171.00	357	182.00	304
152.00	180	160.95	1212	171.90	560	182.90	168
152.80	309	162.00	489	173.00	732	184.00	357

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.00	2069	194.80	100	203.05	525	212.20	69
186.05	16713	195.10	143	204.05	4544	213.10	69
187.00	4736	196.00	4173	205.05	6989	215.05	235
187.95	447	196.70	387	206.10	31419	216.00	513
188.95	924	198.00	139197	207.10	4195	217.00	7273
190.00	74	199.00	9146	207.90	338	218.05	997
190.95	443	200.00	690	208.10	801	219.80	68
191.20	154	201.20	161	209.00	381	221.10	7656
192.00	1122	201.55	850	210.00	146	223.00	1988
192.95	1559	202.15	298	210.95	1200	224.10	16877
194.05	411	202.90	233	212.00	93	225.10	3938

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.00	573	240.00	104	250.80	75	259.90	68
227.00	6296	240.95	287	252.00	100	264.00	72
228.00	1005	242.00	980	252.30	89	265.05	1111
229.00	1373	243.00	345	252.50	130	265.85	278

M4M2973SIM.M Mon Jun 20 21:06:02 2016 MANAGER Page: 0

229.95	233	243.15	806	253.05	222	270.05	144
231.10	691	244.10	13582	253.30	320	272.00	93
234.00	443	245.05	1807	255.00	64309	273.00	2154
234.85	439	246.00	2074	256.00	9152	274.05	5590
235.95	216	246.90	138	257.05	809	275.00	28704
236.95	529	247.05	387	258.05	3317	276.05	4067
239.10	117	249.00	506	259.00	500	277.05	1922

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	290	303.05	860	326.95	433	355.20	68
283.05	200	304.00	109	327.90	241	365.00	3401
284.10	82	308.10	76	332.10	77	366.00	467
285.10	388	309.90	69	333.10	314	371.05	308
291.90	83	314.00	406	334.00	1393	372.05	1423
293.00	680	315.00	824	335.05	470	373.00	368
294.70	69	315.95	478	341.00	450	382.95	300
295.05	330	321.05	335	346.00	599	383.90	70
296.05	6825	322.05	192	352.10	813	390.00	98
297.05	1078	323.05	2675	353.10	566	402.05	546
301.00	67	324.00	445	354.10	844	403.05	855

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

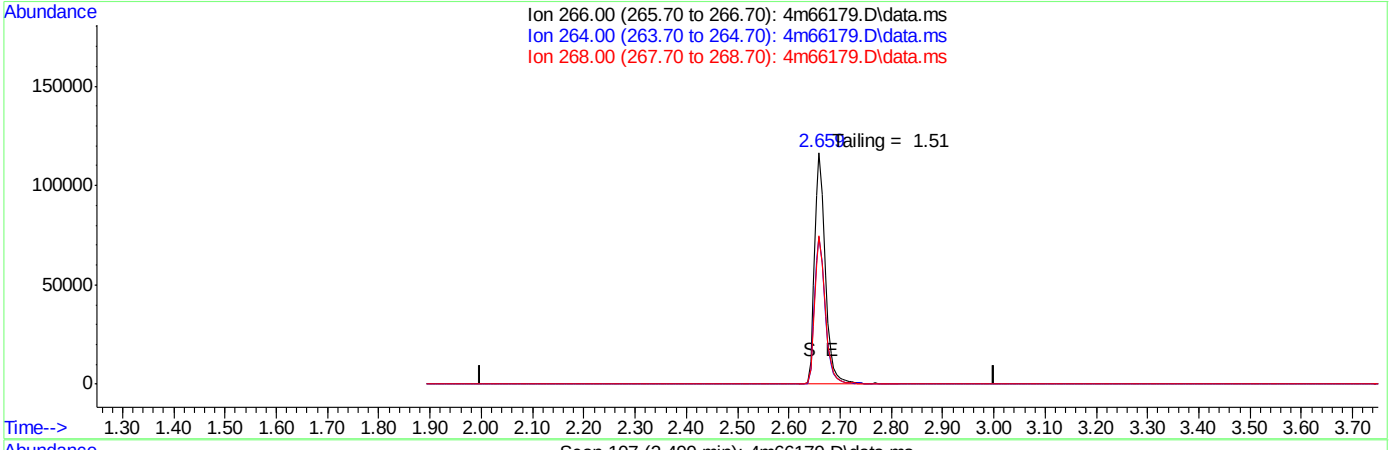
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.95	329	441.10	15333				
421.05	716	442.10	101275				
422.05	759	443.10	20015				
423.10	5222	444.10	1759				
424.05	1108						
433.80	68						
434.20	68						
437.70	114						
438.20	121						
438.55	354						
439.15	193						

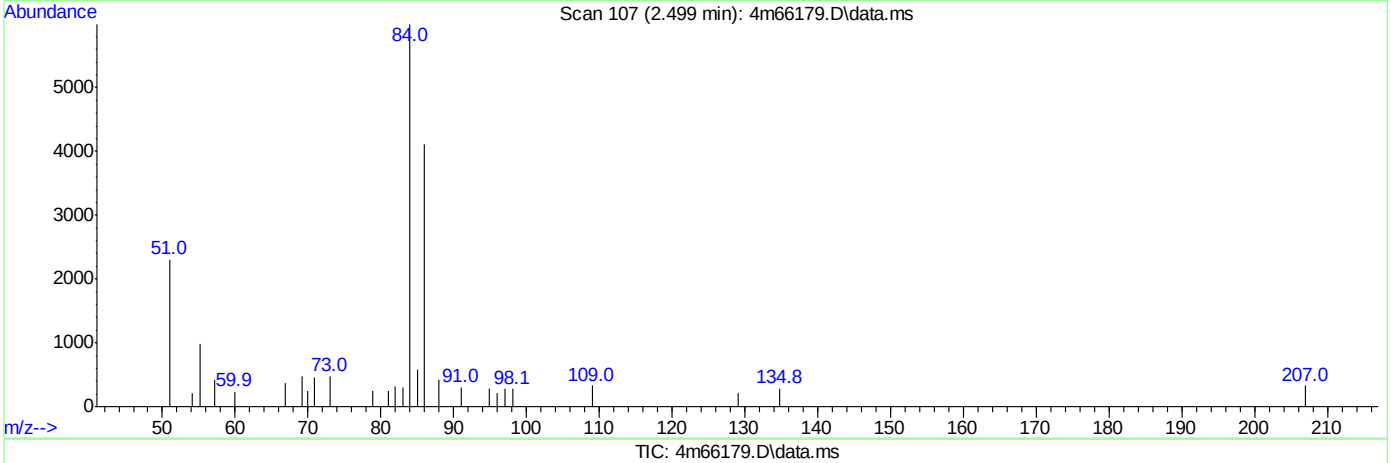
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 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: 4m66179.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

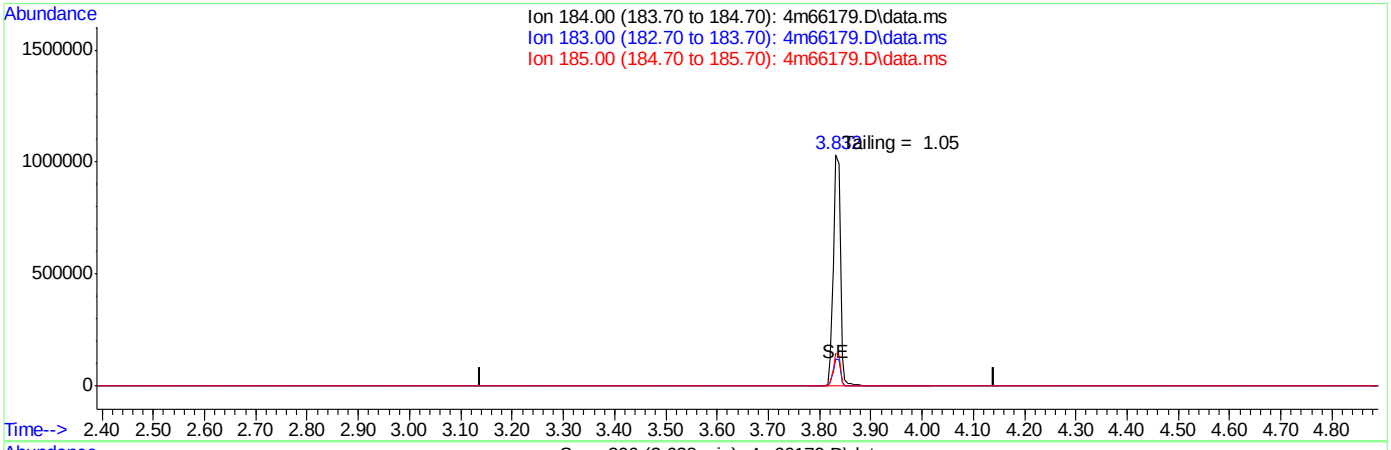
response 0

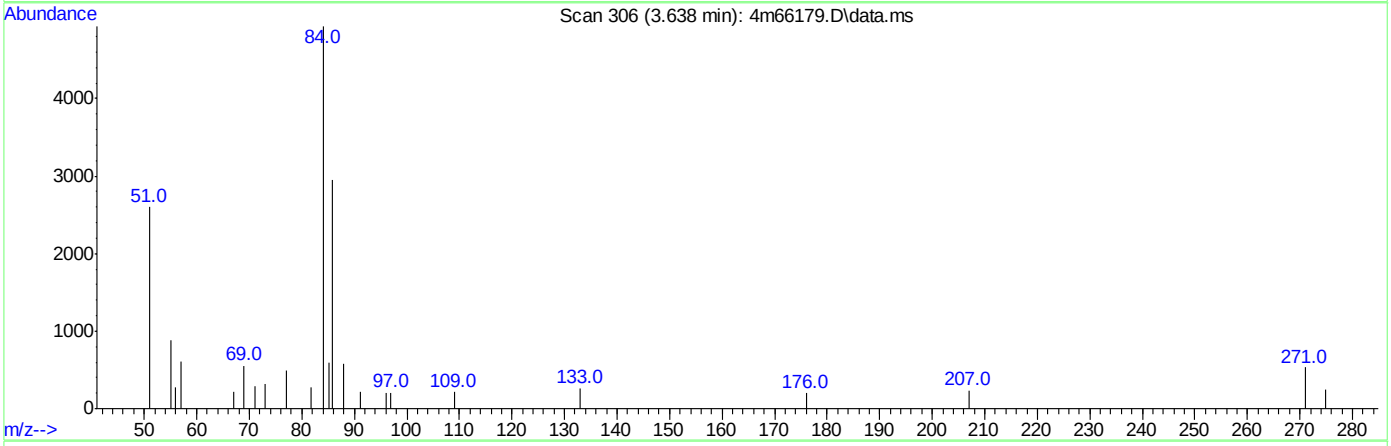
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 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: 4m66179.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

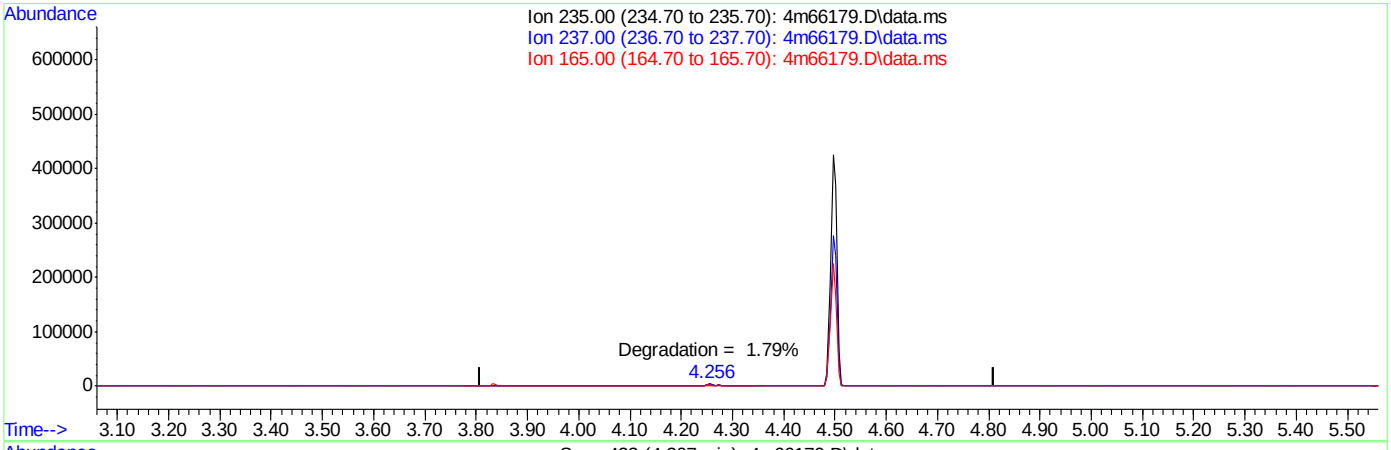
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

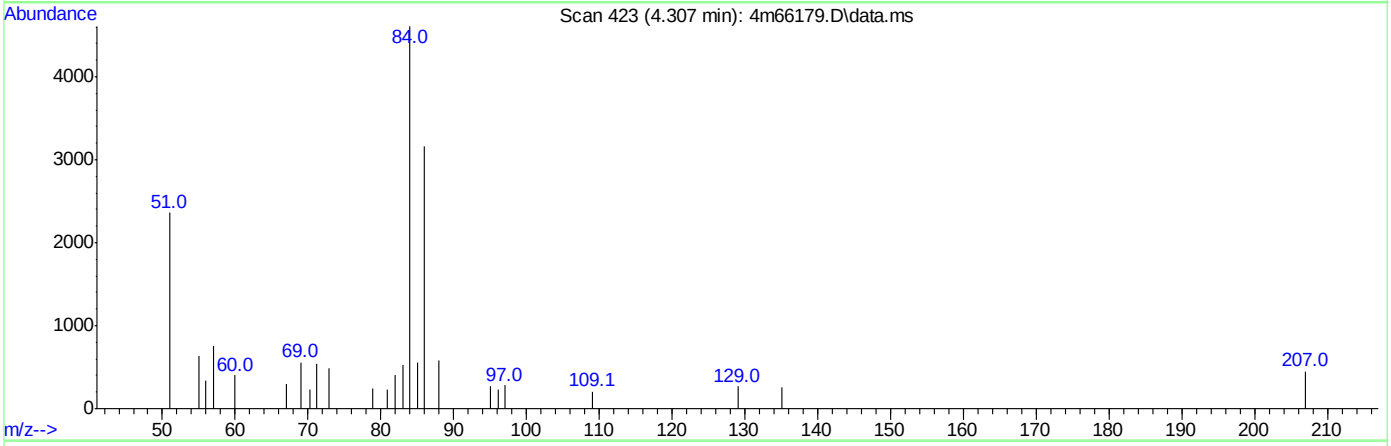
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 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: 4m66179.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

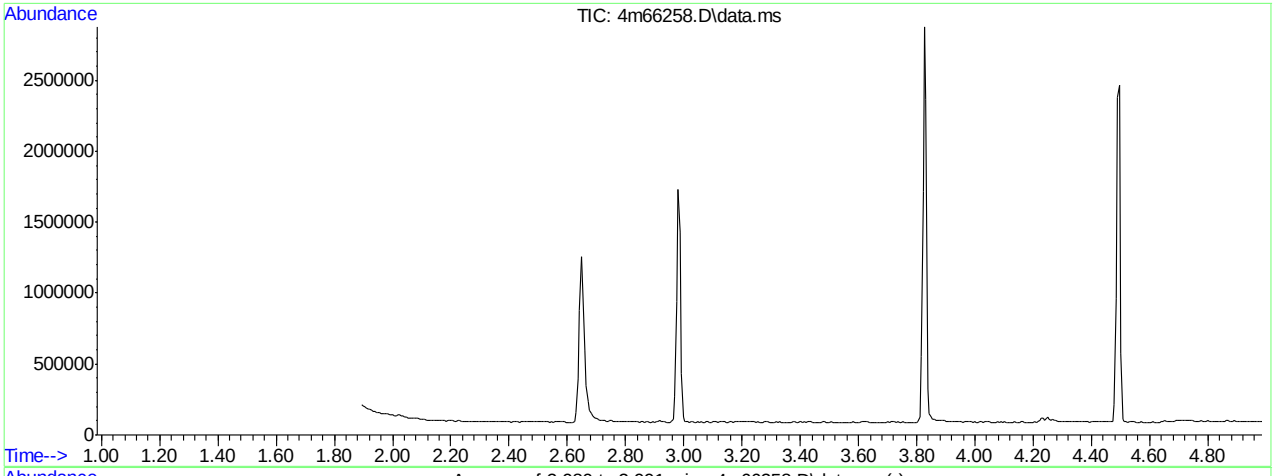
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E4M2978\4m66258.D Vial: 1
Acq On : 22 Jun 2016 2:38 pm Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op94970a,e4m2978 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 191, 192, 193; Background Corrected with Scan 186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.2	53865	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.1	59085	PASS
70	69	0.00	2	0.2	109	PASS
127	198	40	60	48.8	65256	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	133843	PASS
199	198	5	9	6.3	8454	PASS
275	198	10	30	23.7	31739	PASS
365	198	1	100	2.8	3772	PASS
441	443	0.01	100	76.8	17840	PASS
442	198	40	100	88.0	117821	PASS
443	442	17	23	19.7	23225	PASS

4m66258.D DFTPP4M.M Thu Jun 23 08:49:39 2016 MANAGER

Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	5384	65.05	1125	77.10	59612	91.00	1244
51.00	53865	65.90	83	78.05	4078	92.00	910
52.00	2326	67.20	220	78.95	3458	93.00	5782
53.00	253	69.00	59085	80.00	2796	93.95	402
56.00	1626	69.95	109	80.95	4056	95.00	105
57.00	3967	71.05	51	81.95	1182	96.00	404
57.95	272	71.80	70	83.00	642	97.05	57
61.00	667	73.05	815	84.95	748	98.00	4156
61.95	695	74.00	5072	86.00	304	99.00	3299
63.00	1980	75.00	8209	86.95	655	100.00	280
64.05	281	76.10	3006	88.95	195	101.00	2171

Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.90	106	114.90	95	123.95	858	135.95	825
102.95	752	115.10	72	125.00	757	137.05	926
104.00	1391	116.00	986	127.00	65256	137.75	220
104.95	1310	116.20	73	128.05	5355	138.10	96
107.00	16108	117.00	10534	129.00	23376	140.05	230
108.00	2611	118.00	730	130.00	1876	141.00	2485
110.00	34933	118.90	118	131.00	354	141.95	872
111.00	4908	119.10	69	132.05	287	143.00	606
111.95	686	120.00	81	132.70	93	144.00	184
113.00	143	122.00	1121	134.00	621	145.00	307
114.00	68	123.00	1635	135.00	1935	145.95	543

Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.00	1349	157.00	482	168.00	2498	176.10	100
148.00	2569	157.80	284	169.00	475	176.95	1069
148.95	549	158.00	239	169.80	83	178.00	445
150.05	183	159.00	474	170.10	147	179.00	3925
150.95	390	160.00	977	170.60	86	180.00	3027
151.60	247	161.00	1544	171.00	232	181.00	1399
152.00	145	162.00	507	172.00	518	182.05	258
153.00	917	162.90	80	173.00	655	183.20	107
153.95	545	165.00	977	174.00	1180	183.95	319
155.00	1464	166.00	904	175.00	2201	185.00	2076
156.00	2386	167.00	5195	175.90	595	186.05	16630

Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.00	4385	199.00	8454	211.10	1136	224.05	16327
188.05	486	200.00	683	212.00	69	225.00	3895
189.00	885	201.45	850	214.95	264	226.00	570
190.05	242	203.05	738	216.10	372	227.00	5929
191.10	441	204.05	3851	217.00	7140	227.95	920
192.00	1256	205.05	7311	218.00	1077	229.00	1380
193.10	1494	206.10	30273	219.05	155	230.00	132
193.90	387	207.00	3995	219.70	67	231.05	648
195.05	350	208.00	855	221.05	7993	231.90	69
196.00	4750	209.00	363	222.05	952	233.10	74
198.00	133843	209.90	215	223.10	2064	233.90	330

Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.05	385	246.95	371	255.00	65840	272.10	290
236.05	273	247.95	162	256.00	10121	273.05	2374
237.10	591	249.00	447	257.05	960	274.05	6176
238.90	195	250.05	147	258.00	3569	275.05	31739

DFTPP4M.M Thu Jun 23 08:49:34 2016 MANAGER Page: 0

240.10	182	250.90	98	258.95	614	276.05	4040
241.00	414	251.20	90	260.80	90	277.05	2585
242.00	819	251.80	133	263.75	194	278.00	374
243.05	1182	252.10	108	264.20	97	283.00	228
244.10	14463	252.55	202	265.05	1334	284.00	107
245.10	1836	252.80	183	269.90	70	285.10	395
246.05	2041	253.55	505	271.05	211	292.05	183

Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
293.00	722	315.05	916	333.20	117	365.95	500
294.70	212	316.10	518	334.10	1662	371.05	346
296.00	7443	317.10	170	335.05	466	372.00	1625
297.00	1087	320.90	333	340.95	337	373.00	412
298.00	74	322.10	92	346.00	646	383.05	462
301.90	225	323.10	3062	352.05	737	384.00	159
303.05	914	324.00	455	353.05	644	390.00	203
303.80	70	326.95	526	354.10	865	390.90	71
308.00	75	328.05	176	355.00	178	392.00	75
310.10	78	332.00	103	363.70	71	401.10	90
314.15	385	333.00	176	365.05	3772	401.95	596

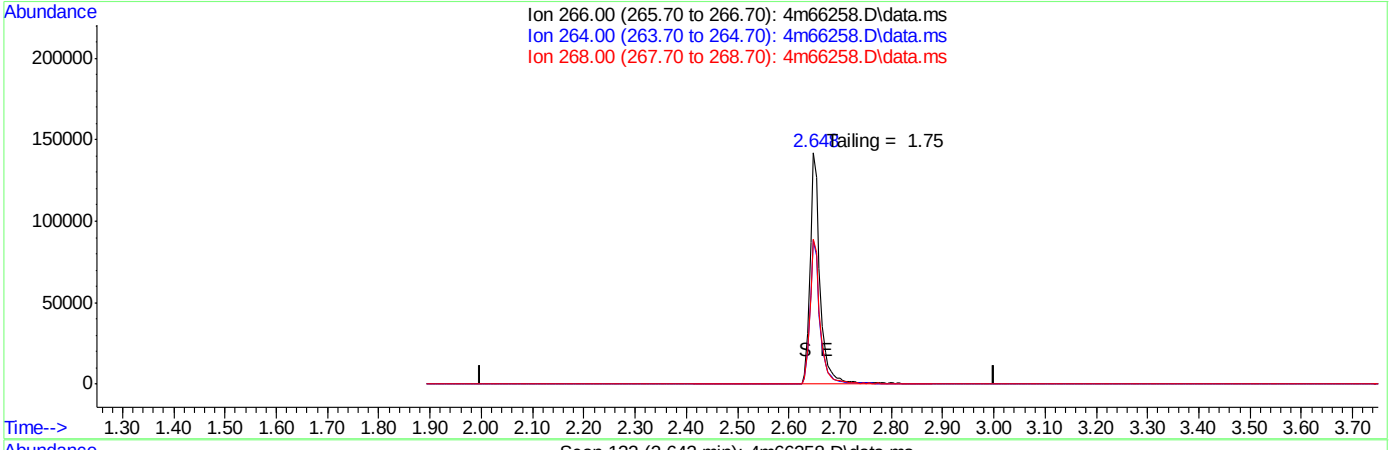
Average of 2.980 to 2.991 min.: 4m66258.D\data.ms
dftpp
Modified:subtracted

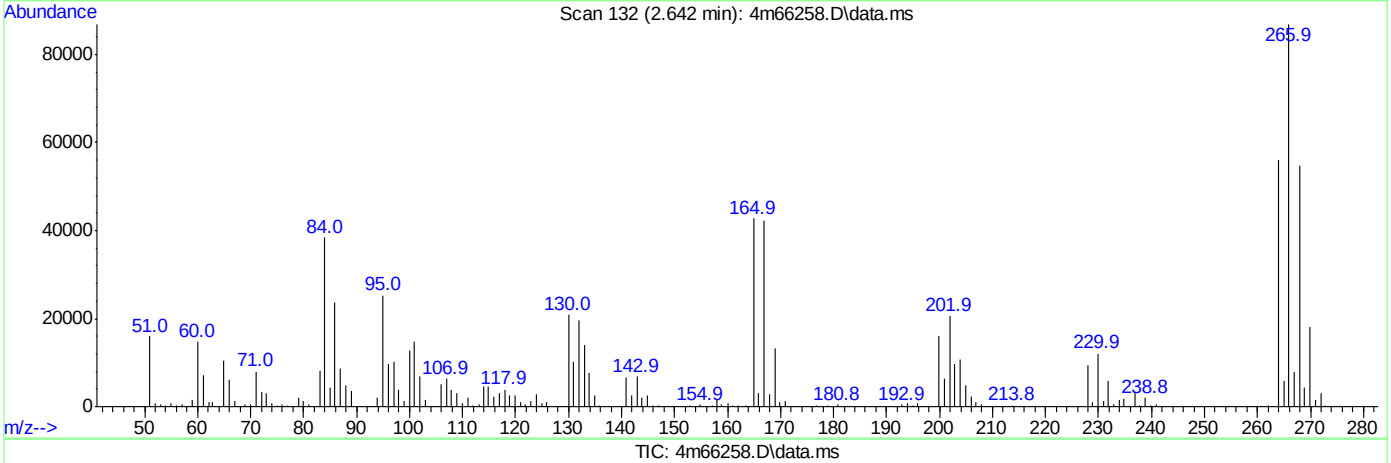
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.05	818	437.80	158				
404.00	399	438.60	175				
421.00	826	439.30	364				
422.05	780	439.70	195				
423.10	5972	441.10	17840				
424.05	1156	442.10	117821				
433.60	85	443.10	23225				
435.20	94	444.05	1925				
435.90	90	445.10	75				
436.60	67						
436.80	148						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66258.D
Acq On : 22 Jun 2016 2:38 pm
Operator : linseyk
Sample : dftpp
Misc : op94970a,e4m2978
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 14:44:15 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: 4m66258.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

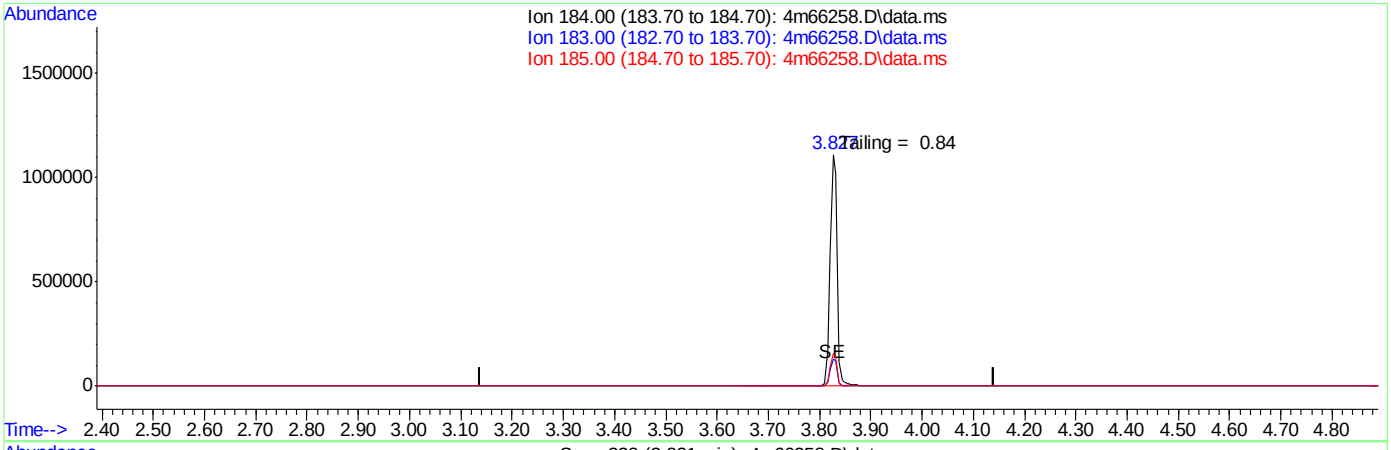
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

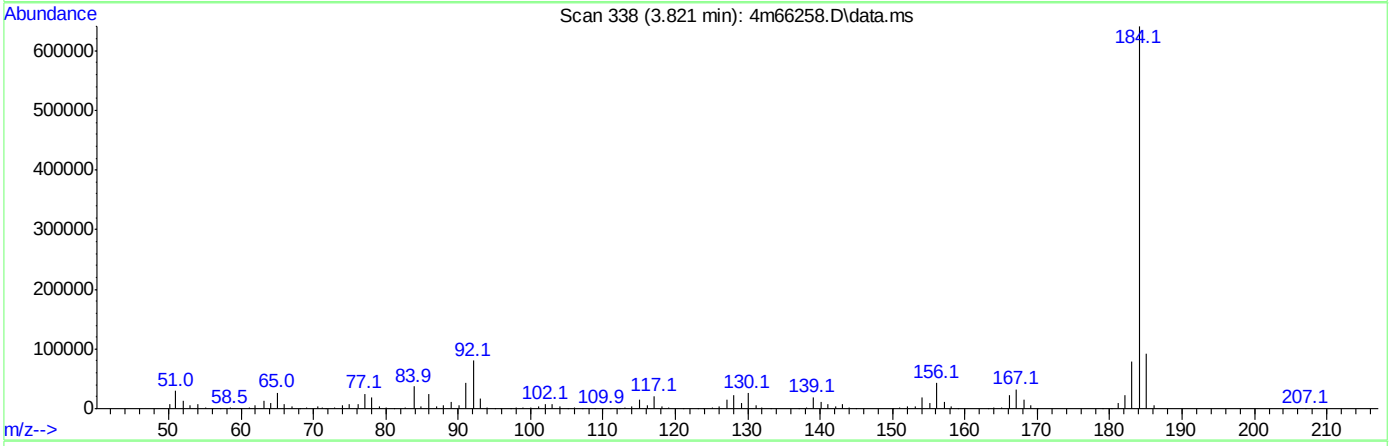
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66258.D
Acq On : 22 Jun 2016 2:38 pm
Operator : linseyk
Sample : dftpp
Misc : op94970a,e4m2978
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 14:44:15 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





(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

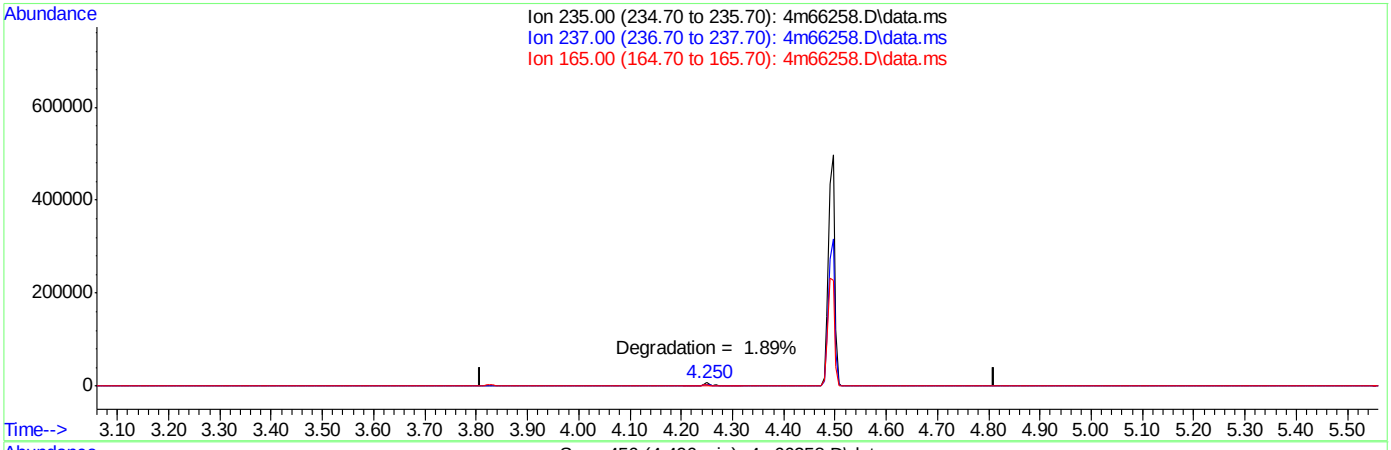
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

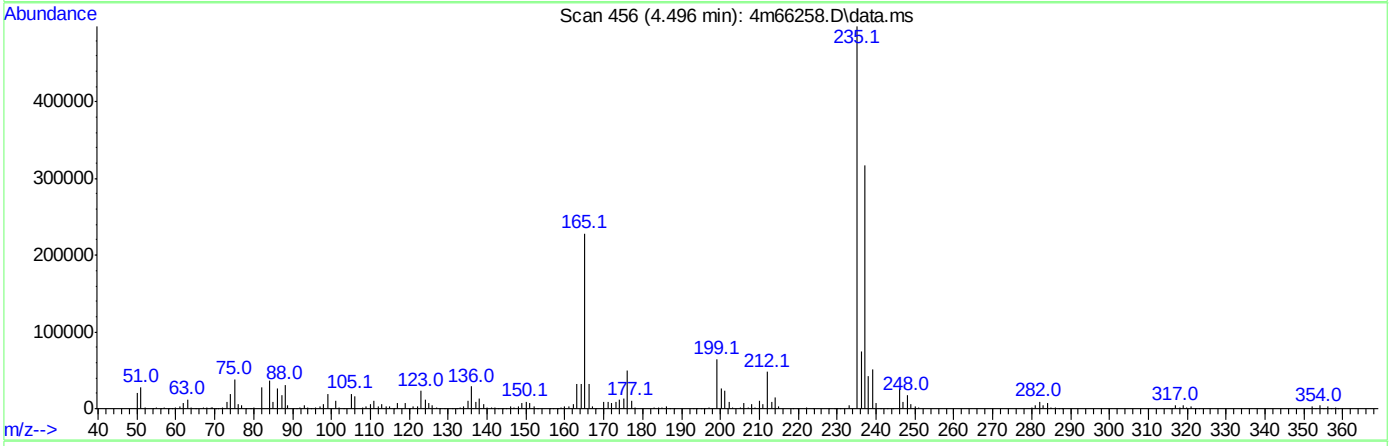
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66258.D
Acq On : 22 Jun 2016 2:38 pm
Operator : linseyk
Sample : dftpp
Misc : op94970a,e4m2978
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 22 14:44:15 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: 4m66258.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

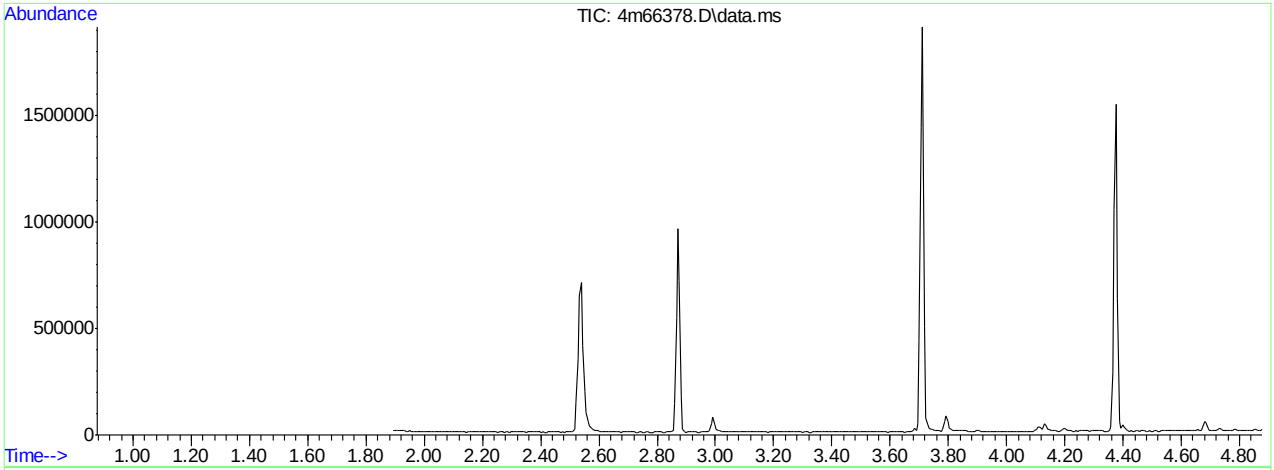
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

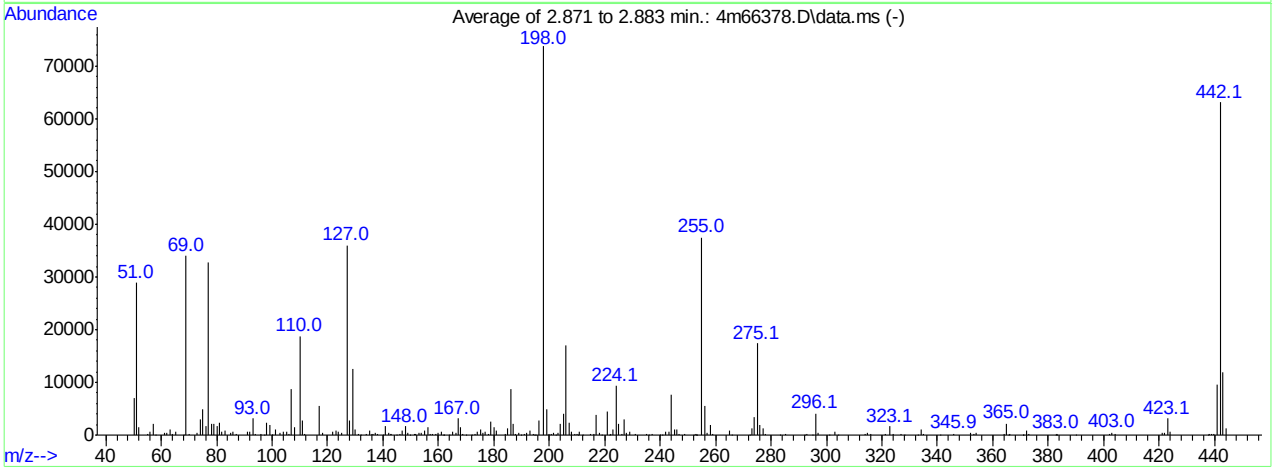
SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E4M2984\4m66378.D Vial: 1
Acq On : 27 Jun 2016 10:42 am Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op94823a,e4m2984 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 172, 173, 174; Background Corrected with Scan 167

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	28822	PASS
68	69	0.00	2	0.3	86	PASS
69	198	0.00	100	46.1	33951	PASS
70	69	0.00	2	0.4	151	PASS
127	198	40	60	48.9	36011	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73717	PASS
199	198	5	9	6.8	4995	PASS
275	198	10	30	23.5	17341	PASS
365	198	1	100	2.9	2162	PASS
441	443	0.01	100	80.4	9632	PASS
442	198	40	100	85.7	63155	PASS
443	442	17	23	19.0	11981	PASS

4m66378.D DFTPP4M.M Mon Jun 27 17:23:18 2016 MANAGER

Average of 2.871 to 2.883 min.: 4m66378.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.05	7062	65.05	677	80.00	1636	96.05	221
51.05	28822	68.00	86	81.00	2322	97.00	80
52.00	1472	69.00	33951	81.95	683	98.00	2372
55.00	258	70.00	151	83.05	814	99.00	1833
56.00	741	73.05	445	85.00	466	99.80	81
57.00	2167	74.05	3011	85.95	712	100.00	87
57.90	92	75.00	4806	86.90	203	101.00	1179
61.05	387	76.10	1650	91.05	665	102.95	530
61.95	414	77.10	32761	91.95	603	104.00	700
63.05	1002	78.05	2210	93.00	3117	105.05	666
64.10	132	79.00	2087	93.95	163	106.10	166

Average of 2.871 to 2.883 min.: 4m66378.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	8771	127.00	36011	138.00	198	149.90	109
108.05	1531	128.00	2810	139.90	78	151.25	189
110.00	18762	129.00	12531	140.95	1674	151.60	162
111.00	2717	130.00	979	142.05	515	152.95	490
111.85	302	131.00	257	142.70	148	153.95	401
117.00	5506	131.90	78	142.90	184	155.05	787
118.00	413	133.95	290	144.90	76	156.05	1398
122.00	609	135.00	918	146.00	310	157.00	307
123.00	870	135.90	216	147.10	758	157.85	266
124.00	549	136.20	144	148.00	1641	158.95	226
125.00	511	137.00	412	149.05	352	160.00	386

Average of 2.871 to 2.883 min.: 4m66378.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
161.05	709	173.05	272	186.05	8764	196.10	2700
161.70	96	174.05	613	187.00	2229	198.00	73717
162.00	97	175.05	1136	187.95	244	199.00	4995
163.90	101	176.05	407	188.95	426	200.00	255
165.00	610	177.00	547	189.90	71	200.90	174
166.15	481	178.05	250	190.95	206	201.40	428
167.00	3184	179.00	2469	191.95	530	202.30	94
167.95	1474	180.05	1585	193.10	960	203.05	459
168.90	237	181.00	773	194.10	117	204.05	2208
169.90	69	184.10	208	194.80	104	205.05	4065
172.00	99	185.00	1199	195.00	74	206.10	17010

Average of 2.871 to 2.883 min.: 4m66378.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.00	2427	219.00	69	231.10	221	246.95	236
208.05	674	221.10	4516	235.00	228	248.95	294
209.00	122	221.60	110	236.00	113	251.90	79
210.20	211	222.10	244	237.00	326	252.70	151
210.60	77	223.05	1060	240.00	68	253.00	112
211.00	729	224.10	9316	240.80	98	253.20	79
212.00	97	225.10	2128	242.05	558	255.00	37519
215.00	138	226.00	125	243.05	631	256.05	5579
216.00	180	227.05	3019	244.05	7684	257.05	431
217.00	3754	227.95	453	245.05	1068	258.05	2010
217.95	496	229.00	727	246.00	1093	259.00	165

Average of 2.871 to 2.883 min.: 4m66378.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.00	895	292.00	70	321.10	174	353.05	212
266.00	77	293.00	306	323.05	1647	354.05	464
272.10	92	295.00	85	324.05	309	364.10	118
273.05	1235	296.05	4127	326.85	184	365.00	2162

M4M2974SIM.M Mon Jun 27 13:43:12 2016 MANAGER Page: 0

274.05	3507	297.00	451	328.00	89	365.80	114
275.05	17341	300.90	67	333.00	73	366.00	276
276.05	1975	303.05	566	334.10	1026	370.90	79
277.00	1217	304.10	71	335.10	218	371.10	70
278.00	142	313.95	218	341.10	93	372.05	900
283.10	105	314.95	435	345.95	224	373.00	209
285.10	201	316.05	166	351.95	538	382.70	74

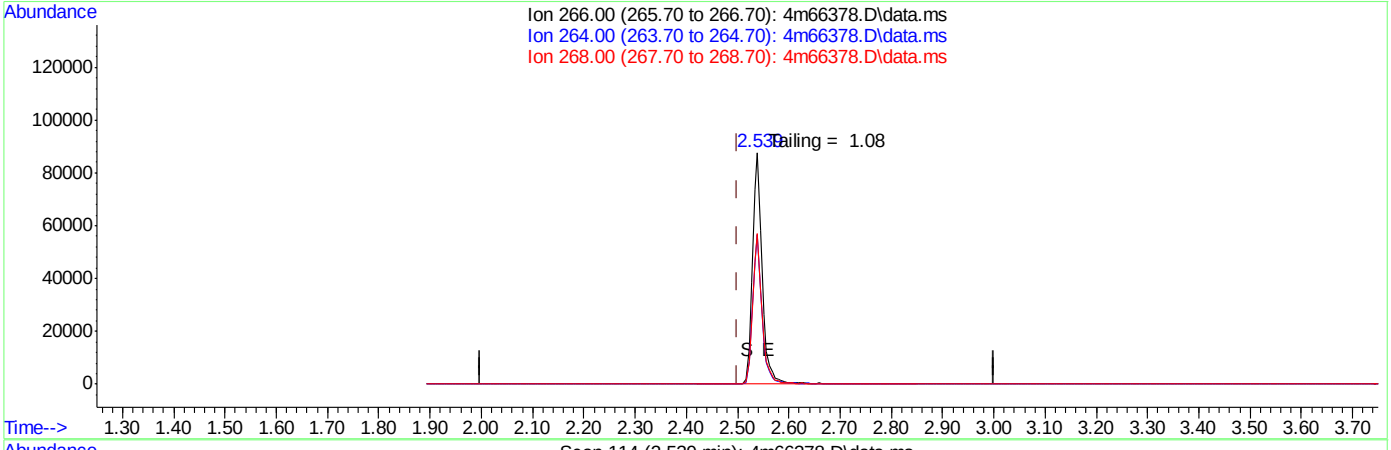
Average of 2.871 to 2.883 min.: 4m66378.D\data.ms
dftpp
Modified:subtracted

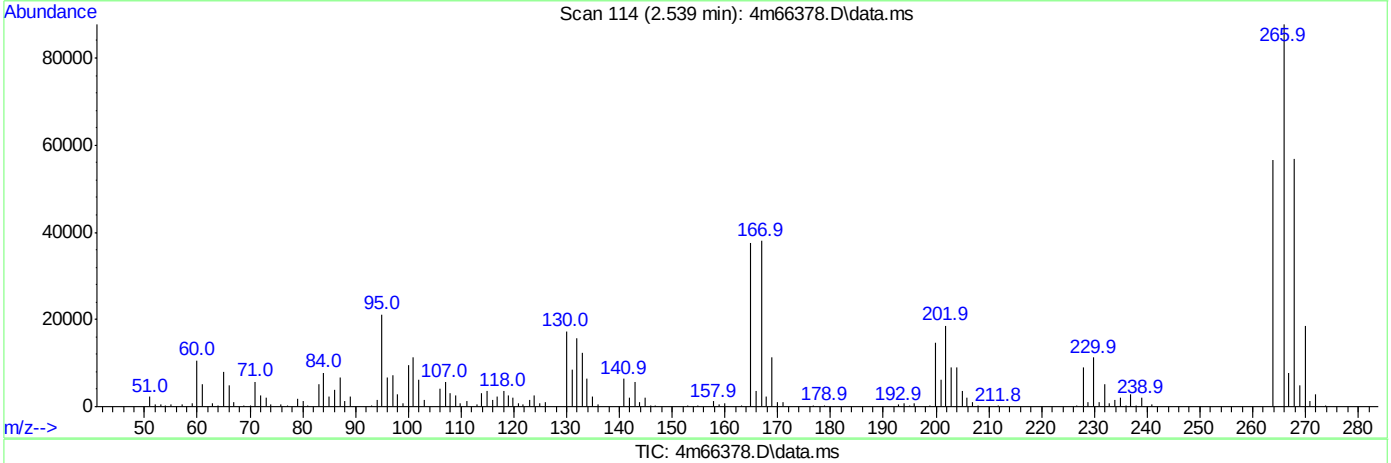
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
383.00	242	438.30	139				
383.20	107	439.10	140				
389.90	73	439.80	227				
402.00	266	441.10	9632				
403.00	528	442.10	63155				
404.10	162	443.10	11981				
421.05	448	444.00	1214				
422.05	387						
423.10	3168						
424.05	703						
437.60	87						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66378.D
Acq On : 27 Jun 2016 10:42 am
Operator : linseyk
Sample : dftpp
Misc : op94823a,e4m2984
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:48:42 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: 4m66378.D\data.ms

(1) pentachlorophenol (t)

2.540min (+0.040) 68.53ppb

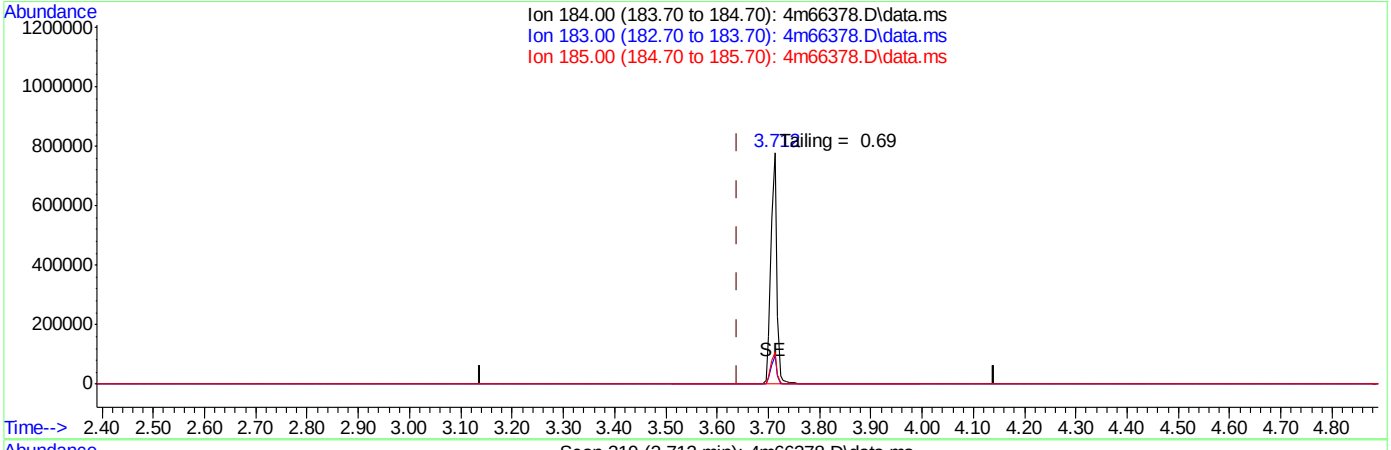
response 1130774

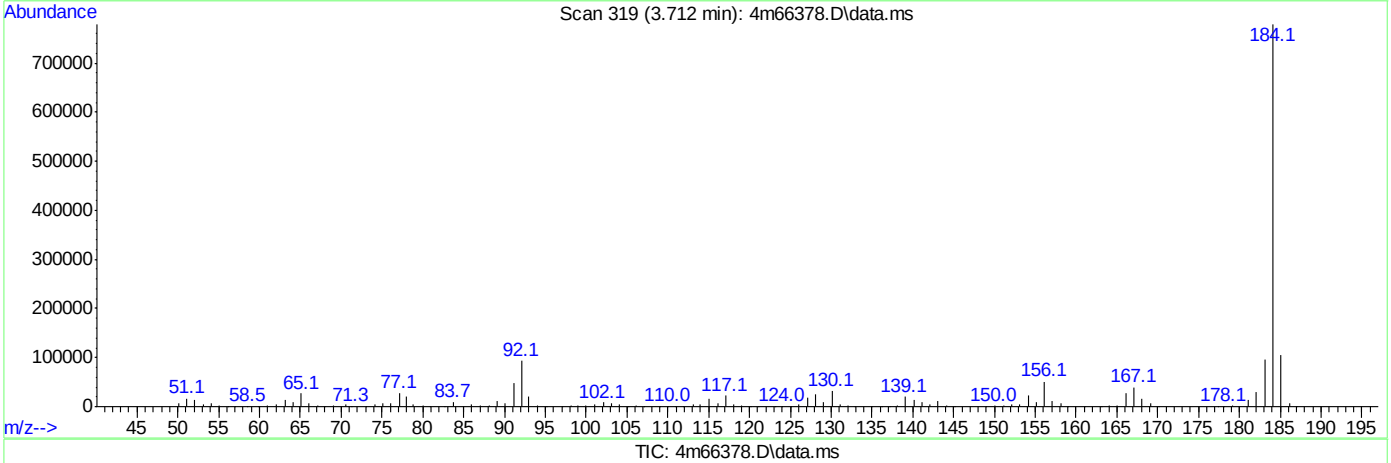
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	62.41
268.00	62.00	62.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66378.D
Acq On : 27 Jun 2016 10:42 am
Operator : linseyk
Sample : dftpp
Misc : op94823a,e4m2984
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:48:42 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: 4m66378.D\data.ms

(2) benzidine (t)

3.713min (+0.073) 102.63ppb

response 6125741

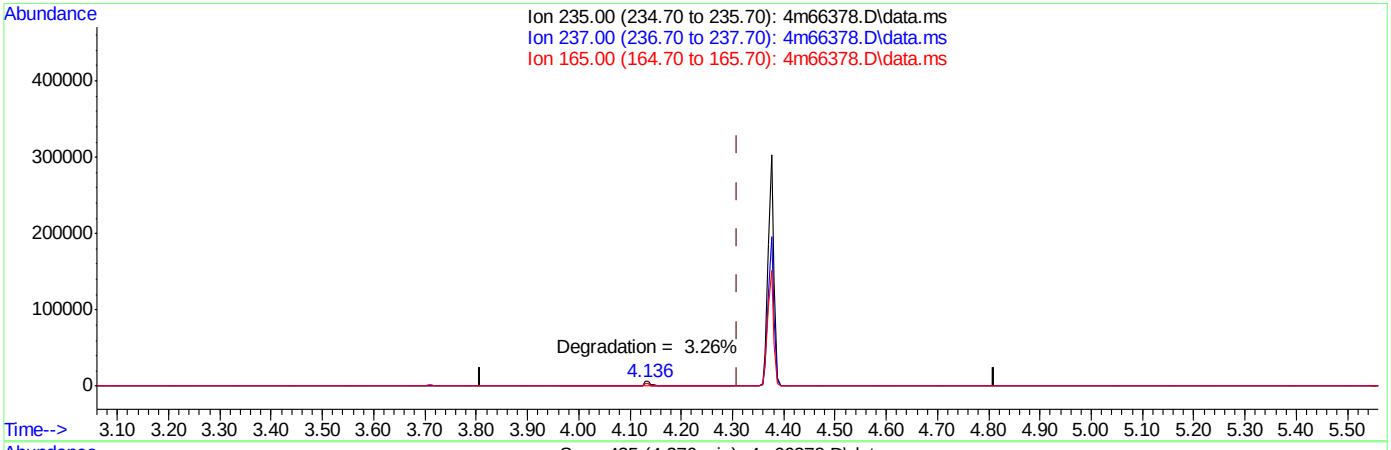
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	12.03
185.00	13.40	13.77
0.00	0.00	0.00

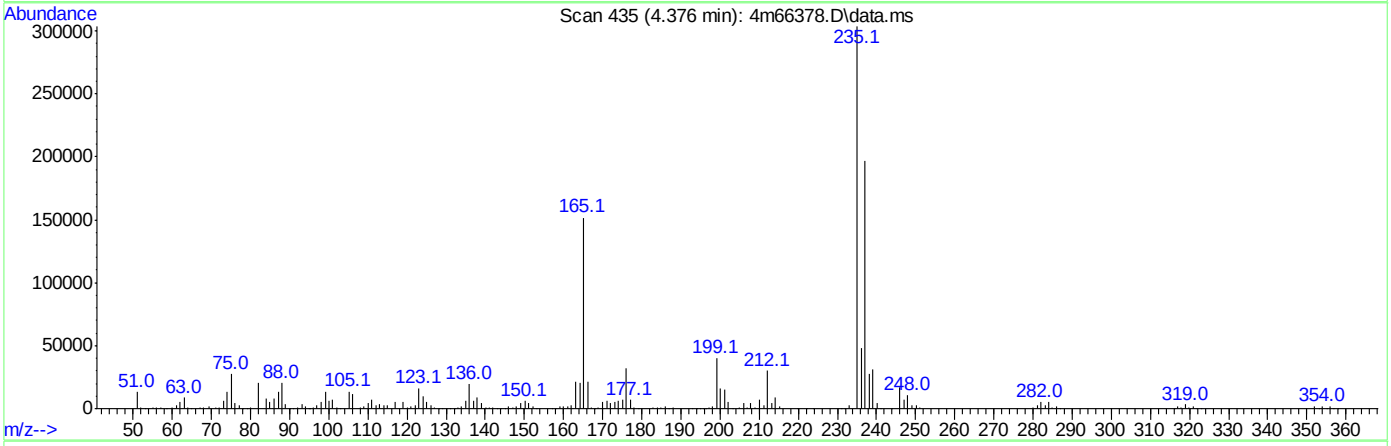
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66378.D
Acq On : 27 Jun 2016 10:42 am
Operator : linseyk
Sample : dftpp
Misc : op94823a,e4m2984
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:48:42 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: 4m66378.D\data.ms

(3) ddt (t)

4.378min (+0.068) 84.96ppb

response 2351366

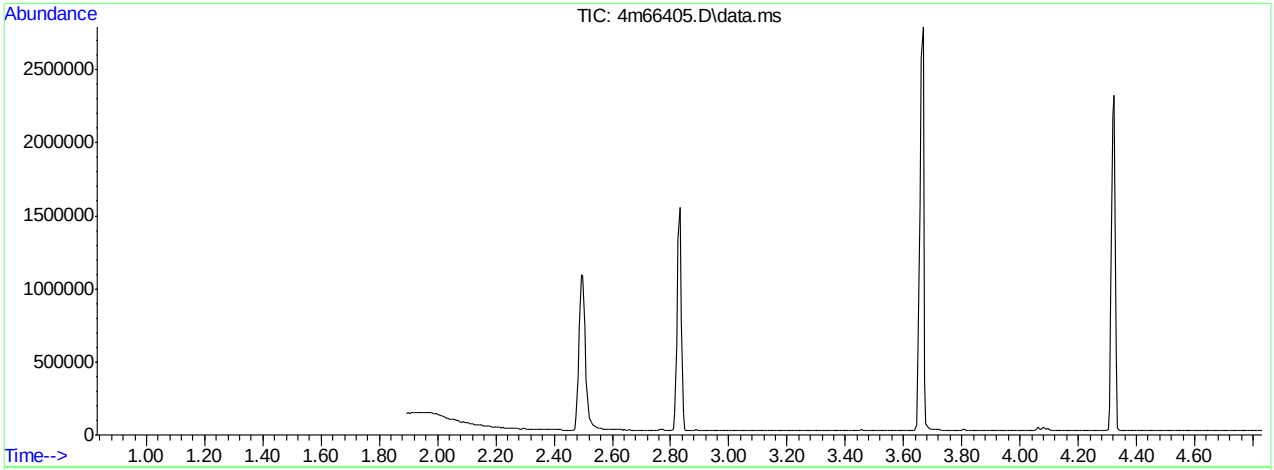
Ion	Exp%	Act%
235.00	100	100
237.00	63.70	64.82
165.00	48.70	50.72
0.00	0.00	0.00

SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E4M2986\4m66405.D Vial: 1
Acq On : 28 Jun 2016 8:36 am Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op94823a,e4m2986 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 164, 165, 166; Background Corrected with Scan 158

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.2	62495	PASS
68	69	0.00	2	0.5	339	PASS
69	198	0.00	100	47.9	67789	PASS
70	69	0.00	2	0.3	206	PASS
127	198	40	60	50.8	71827	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	141469	PASS
199	198	5	9	6.6	9296	PASS
275	198	10	30	22.5	31893	PASS
365	198	1	100	2.5	3552	PASS
441	443	0.01	100	79.3	17690	PASS
442	198	40	100	81.2	114888	PASS
443	442	17	23	19.4	22299	PASS

4m66405.D DFTPP4M.M Tue Jun 28 13:25:47 2016 MANAGER

Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	9796	64.05	357	77.10	68851	89.00	74
51.05	62495	65.10	1420	78.10	4738	91.00	1135
52.00	3071	65.95	235	79.00	3981	92.00	1051
52.90	164	66.95	233	80.00	3311	93.00	6542
55.05	539	68.10	339	81.00	4447	94.00	430
56.00	1904	69.00	67789	81.95	873	94.80	67
57.00	4537	70.05	206	82.95	1069	95.05	243
58.00	194	73.05	417	85.00	685	96.05	534
61.00	766	74.05	5941	85.95	719	96.90	120
62.00	826	75.05	9801	86.90	461	97.10	151
63.00	2306	76.15	3337	87.95	118	98.00	4601

Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.00	3809	111.00	5359	122.05	1199	133.80	282
100.00	275	112.00	683	123.05	1740	134.05	414
101.00	2237	112.90	204	124.00	811	135.00	2005
101.90	79	114.70	99	125.00	985	136.00	674
103.05	856	115.20	121	127.00	71827	137.05	1008
104.00	1412	116.00	1205	128.10	5946	137.50	81
105.00	1224	117.00	11304	129.00	26433	137.90	205
105.90	326	118.00	1059	130.00	2063	140.05	233
107.00	18722	119.05	176	131.00	411	141.05	3023
108.00	2869	120.00	381	131.90	305	142.00	973
110.00	38448	121.05	139	132.90	75	143.00	788

Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.10	192	153.00	925	163.00	91	173.00	798
145.00	101	154.00	695	163.15	189	174.00	1369
146.00	644	155.00	1545	163.95	148	175.00	2272
147.00	1680	156.00	2536	165.00	1003	176.10	692
148.00	3064	156.95	641	166.05	1022	177.00	1101
149.00	657	157.95	497	167.05	5998	178.10	493
149.95	155	159.00	394	168.00	2425	179.00	4077
150.90	221	160.00	824	169.00	608	180.00	3090
151.10	100	161.00	1288	170.10	85	181.00	1542
151.50	173	161.80	133	171.00	300	181.70	110
152.10	236	162.00	294	171.95	429	182.10	315

Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.80	102	193.05	1627	204.05	4248	214.95	254
184.10	451	193.90	121	205.10	7819	215.70	87
185.05	2369	194.10	327	206.10	32979	216.00	595
186.05	17015	195.05	278	207.05	4380	217.00	7688
187.05	4568	196.00	4951	207.95	1064	217.95	1030
188.00	520	198.00	141469	209.00	272	219.00	85
189.00	971	199.00	9296	209.90	85	221.10	8580
189.80	69	200.00	786	210.30	235	222.05	682
190.10	109	201.45	1015	211.10	1361	223.05	2223
191.05	488	202.10	141	211.65	296	224.05	17660
192.00	1493	203.00	893	213.10	92	225.05	3878

Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.05	569	239.05	261	250.05	165	265.05	1339
227.00	6397	239.95	268	252.00	187	266.00	290
228.05	794	240.90	232	252.30	106	270.70	70
229.00	1436	242.05	896	253.10	770	271.20	112

M4M2974SIM.M Tue Jun 28 13:00:52 2016 MANAGER Page: 0

229.85	308	243.05	1301	255.10	69309	272.10	485
231.00	708	244.10	14547	256.05	10344	273.05	2452
232.10	80	245.10	1959	257.00	859	274.10	6118
233.95	447	246.00	2098	258.00	3516	275.10	31893
235.00	562	247.00	472	259.05	551	276.05	4244
236.00	214	248.00	111	260.95	159	277.05	2575
237.00	725	249.05	481	263.85	236	278.00	431

Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.00	71	303.05	1028	326.90	569	352.05	881
283.00	304	304.05	306	328.00	232	353.00	584
284.00	207	310.10	68	331.90	103	354.10	944
285.05	509	313.10	69	332.10	86	354.90	93
292.10	94	314.05	448	333.00	278	363.90	181
292.80	343	315.05	906	334.10	1742	365.05	3552
293.10	309	316.00	537	335.00	395	366.05	603
293.95	213	321.00	268	340.75	178	371.00	394
296.05	7794	322.20	176	341.00	78	372.05	1562
297.00	1167	323.10	3004	341.90	76	373.05	379
302.00	94	324.05	527	345.95	556	383.05	476

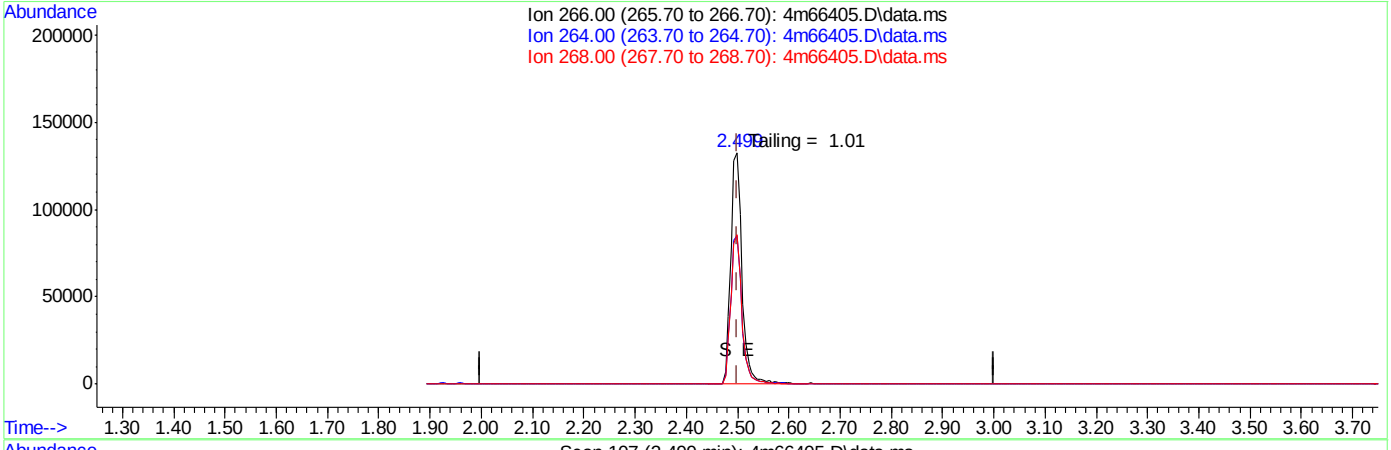
Average of 2.825 to 2.837 min.: 4m66405.D\data.ms
dftpp
Modified:subtracted

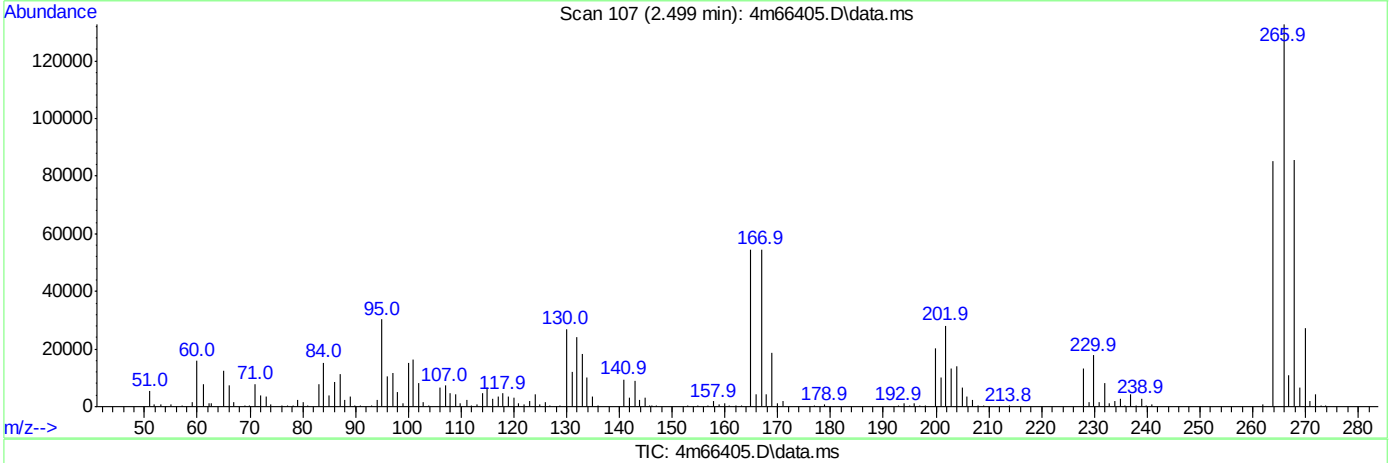
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
390.00	172	425.00	72	442.10	114888		
391.00	82	436.15	164	443.10	22299		
401.10	76	436.60	76	444.10	2175		
401.60	121	437.35	358				
402.05	895	437.80	198				
403.10	977	438.35	435				
404.05	398	438.90	162				
421.10	898	439.20	113				
422.10	896	439.50	211				
423.10	5969	439.95	550				
424.00	1169	441.10	17690				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66405.D
Acq On : 28 Jun 2016 8:36 am
Operator : linseyk
Sample : dftpp
Misc : op94823a,e4m2986
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 08:42:37 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: 4m66405.D\data.ms

(1) pentachlorophenol (t)

2.499min (-0.001) 121.96ppb

response 2012491

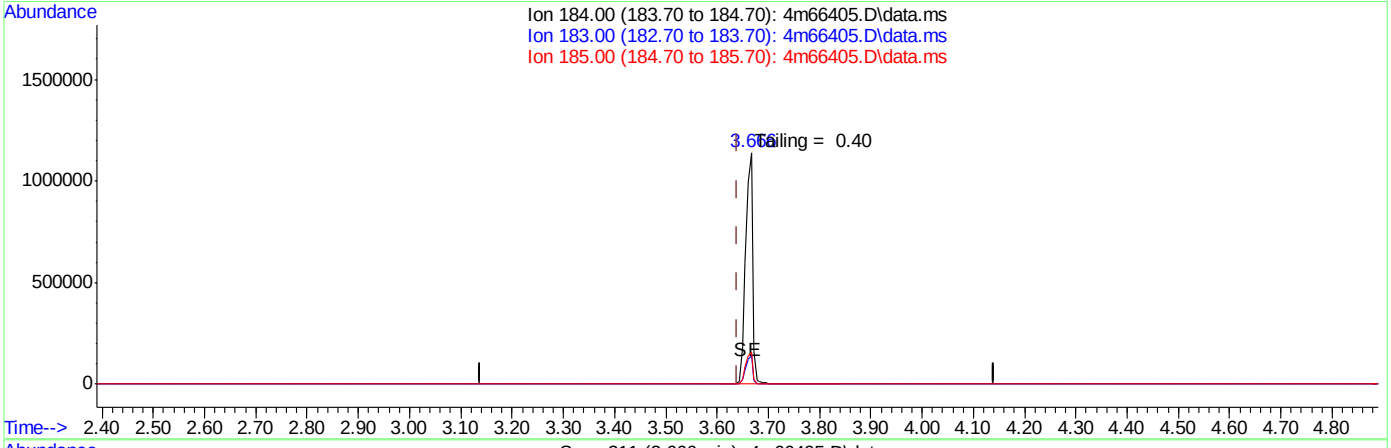
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	64.15
268.00	62.00	63.61
0.00	0.00	0.00

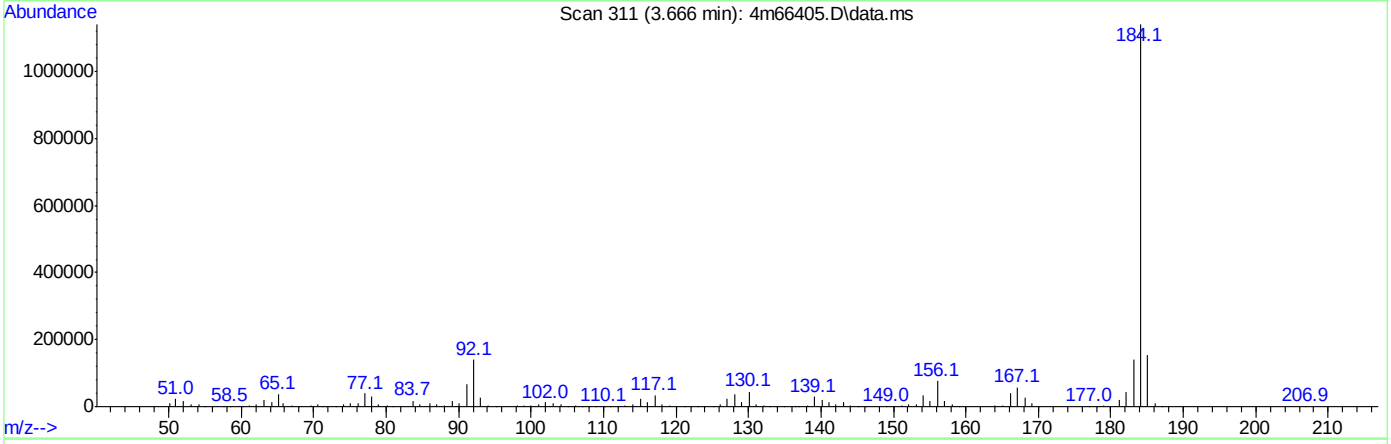
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66405.D
Acq On : 28 Jun 2016 8:36 am
Operator : linseyk
Sample : dftpp
Misc : op94823a,e4m2986
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 08:42:37 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: 4m66405.D\data.ms

(2) benzidine (t)

3.666min (+0.026) 180.37ppb

response 10765429

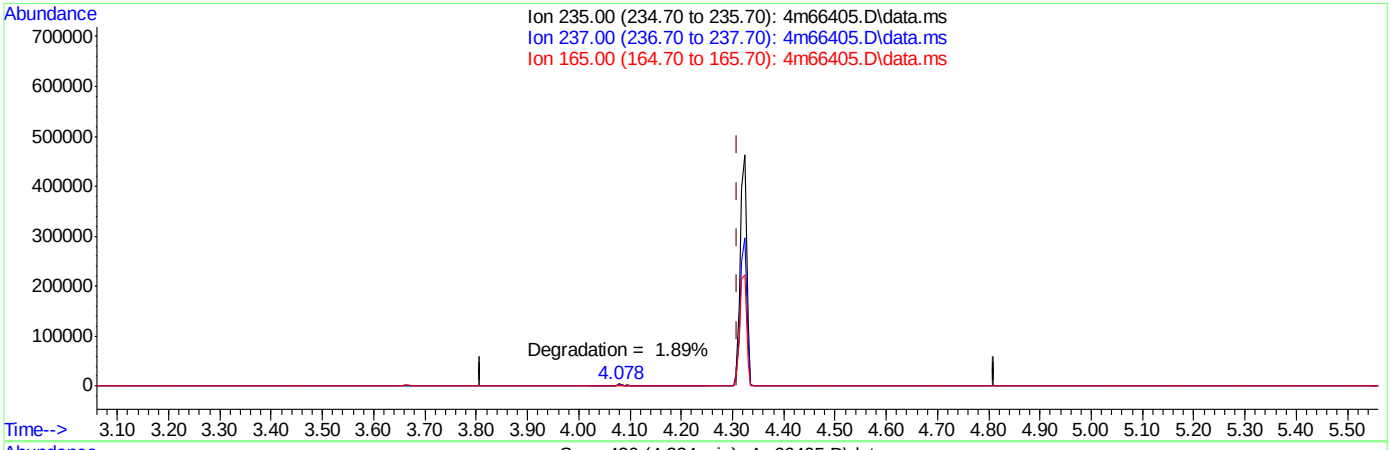
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	12.12
185.00	13.40	13.88
0.00	0.00	0.00

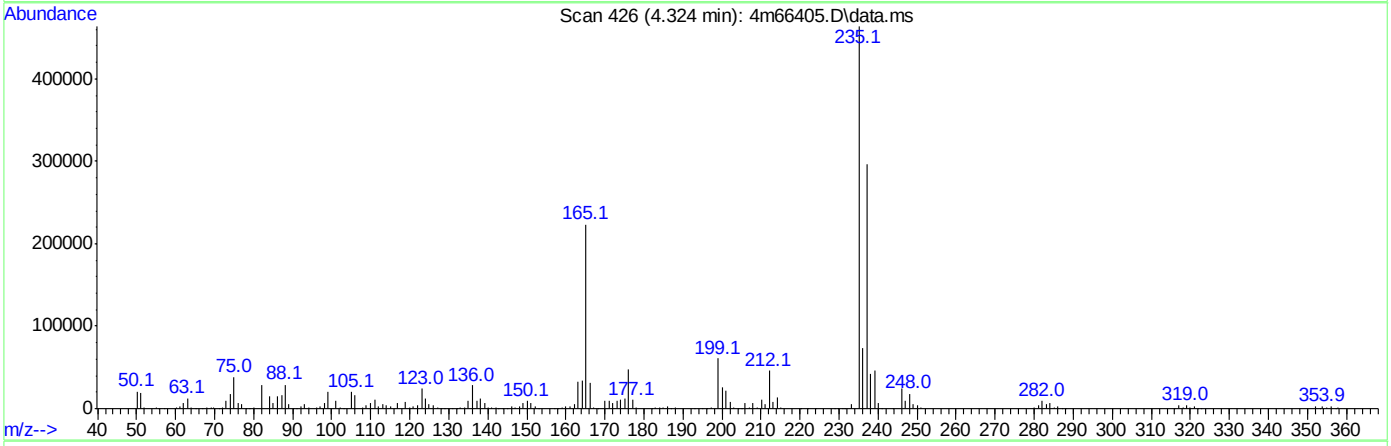
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66405.D
Acq On : 28 Jun 2016 8:36 am
Operator : linseyk
Sample : dftpp
Misc : op94823a,e4m2986
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 08:42:37 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: 4m66405.D\data.ms

(3) ddt (t)

4.324min (+0.014) 146.16ppb

response 4045226

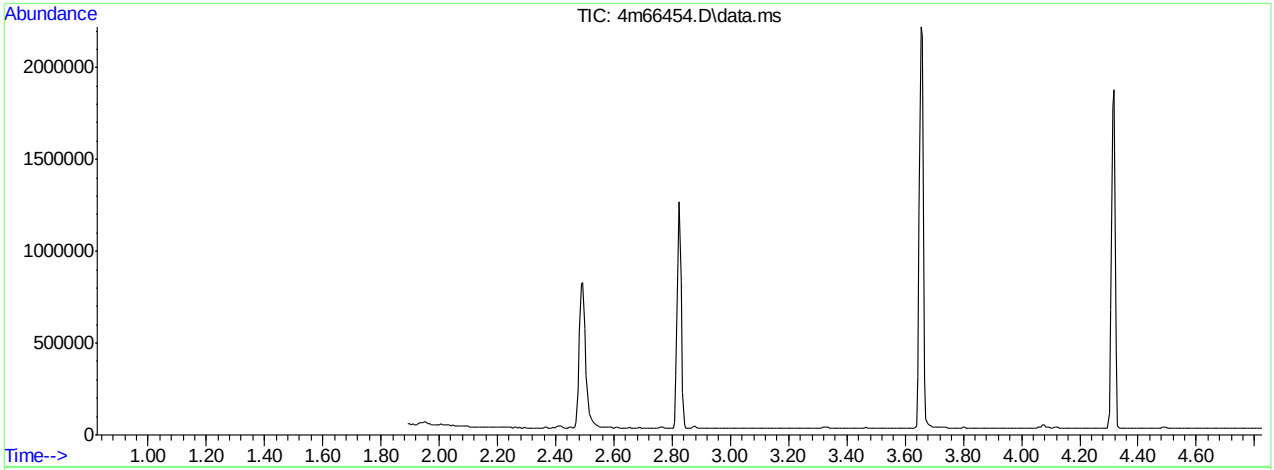
Ion	Exp%	Act%
235.00	100	100
237.00	63.70	63.72
165.00	48.70	50.25
0.00	0.00	0.00

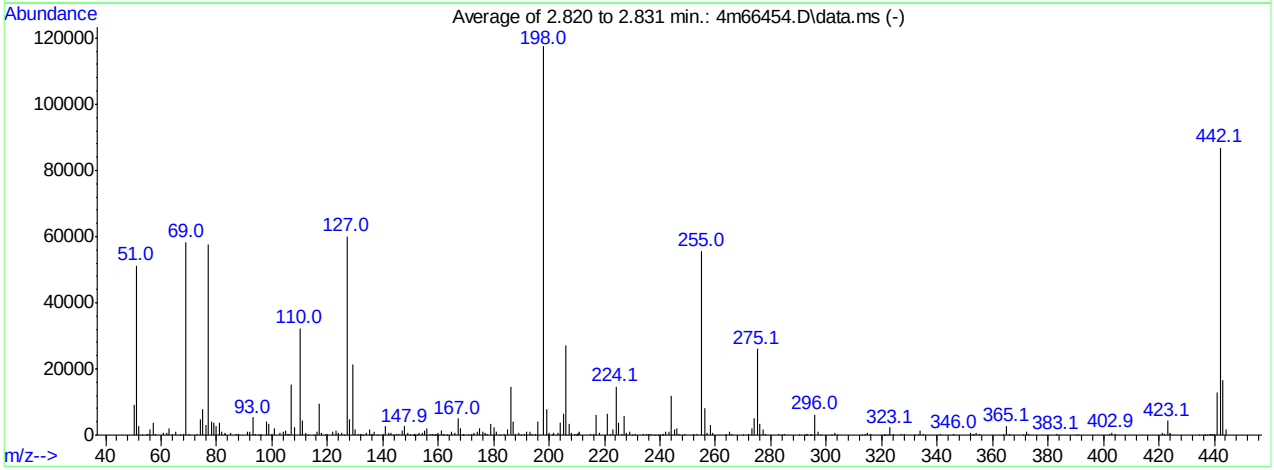
SGS ACCUTEST JC22206

DFTPP

Data File : C:\msdchem\1\DATA\E4M2988\4m66454.D Vial: 1
Acq On : 29 Jun 2016 8:26 am Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op95138a,e4m2988 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 163, 164, 165; Background Corrected with Scan 158

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.7	51284	PASS
68	69	0.00	2	0.6	349	PASS
69	198	0.00	100	49.7	58352	PASS
70	69	0.00	2	0.8	445	PASS
127	198	40	60	51.1	60045	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	117467	PASS
199	198	5	9	6.7	7855	PASS
275	198	10	30	22.2	26040	PASS
365	198	1	100	2.3	2758	PASS
441	443	0.01	100	76.5	12748	PASS
442	198	40	100	73.9	86768	PASS
443	442	17	23	19.2	16660	PASS

4m66454.D DFTPP4M.M Wed Jun 29 11:16:38 2016 MANAGER

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	9166	63.00	2008	77.10	57579	90.95	1005
51.05	51284	64.00	209	78.00	4029	92.00	930
52.00	2872	65.05	1129	79.00	3587	93.00	5384
53.00	70	67.00	87	80.00	2820	94.05	381
54.90	143	68.10	349	81.00	3901	95.10	70
55.05	292	69.00	58352	82.00	889	96.00	366
56.00	1677	70.00	445	82.90	566	98.00	4029
57.00	3728	73.05	308	83.00	246	99.00	3314
58.05	294	74.05	4797	85.00	768	99.70	97
61.00	615	75.00	7877	86.90	344	99.95	266
62.05	817	76.15	2991	87.90	232	101.00	1915

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.05	785	115.00	73	127.00	60045	136.10	147
103.95	1169	116.05	956	128.10	4731	137.00	867
104.95	1302	117.00	9643	129.00	21315	138.05	159
105.90	208	117.95	741	130.00	1756	140.00	263
106.10	256	119.00	81	131.05	390	140.20	105
107.00	15164	120.00	199	131.80	85	141.00	2580
108.00	2438	121.95	1043	132.05	210	142.10	839
110.00	32349	122.95	1529	132.95	147	143.00	651
111.00	4565	123.95	687	134.00	634	143.90	165
112.05	626	124.95	686	135.05	1802	145.05	271
113.00	87	125.80	161	135.90	410	145.90	473

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.05	1402	155.00	1470	163.00	77	175.00	1926
147.95	2669	156.00	1893	164.95	896	175.95	861
149.00	595	156.95	455	166.05	738	177.00	857
149.95	162	157.80	429	167.00	5062	177.85	299
150.90	82	158.10	86	168.05	2123	179.00	3539
151.25	187	158.95	190	168.90	171	180.00	2322
151.40	83	159.20	102	169.05	311	181.05	1198
151.60	109	159.95	669	171.00	95	182.05	178
152.20	95	161.00	1222	171.90	464	183.85	243
153.00	801	161.80	96	173.00	643	185.05	1861
154.05	711	161.95	244	174.05	1043	186.05	14517

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.05	4005	199.00	7855	209.80	153	224.05	14730
188.00	490	200.00	590	210.10	166	225.05	3588
189.00	805	201.10	134	210.55	563	226.10	446
190.00	68	201.55	729	211.05	907	227.00	5679
191.00	331	203.00	700	215.00	341	228.05	825
192.00	1029	204.05	3626	216.10	449	229.00	1121
193.05	1199	205.10	6346	217.00	6006	230.00	148
194.05	312	206.10	27021	218.00	691	231.05	410
195.10	253	207.05	3501	221.05	6469	233.95	396
196.05	3948	208.00	839	222.10	285	234.95	413
198.00	117467	209.05	366	223.05	1649	236.05	252

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.95	462	246.05	1987	265.05	987	284.00	68
238.10	67	246.95	249	265.90	345	285.05	350
239.00	115	249.00	387	270.10	79	290.00	71
239.90	72	252.10	289	272.00	236	292.20	72

M4M2974SIM.M Wed Jun 29 09:12:33 2016 MANAGER Page: 0

240.10	94	253.15	345	273.05	2005	292.80	112
240.90	110	255.00	55645	274.10	5247	293.10	263
241.10	205	256.00	8287	275.10	26040	294.00	77
242.05	865	257.00	841	276.05	3436	294.50	67
243.05	1022	258.00	2941	277.05	1743	296.00	6115
244.10	11984	258.95	531	278.05	299	297.00	1019
245.05	1576	264.05	189	283.05	294	298.00	81

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.90	144	323.05	2314	352.90	113	390.10	119
303.05	761	323.95	408	353.10	356	391.00	84
304.00	119	327.00	486	354.10	751	402.05	420
312.90	84	328.05	271	355.15	203	402.95	770
314.05	419	332.00	119	363.60	82	404.05	192
314.95	814	333.20	83	365.05	2758	421.05	733
316.05	401	334.00	1313	366.00	416	422.00	460
320.70	81	335.00	432	370.95	182	423.10	4385
321.00	93	341.10	307	372.05	1128	423.90	224
321.20	75	346.00	383	373.00	293	424.10	657
321.90	93	352.05	550	383.05	332	434.60	70

Average of 2.820 to 2.831 min.: 4m66454.D\data.ms
dftpp
Modified:subtracted

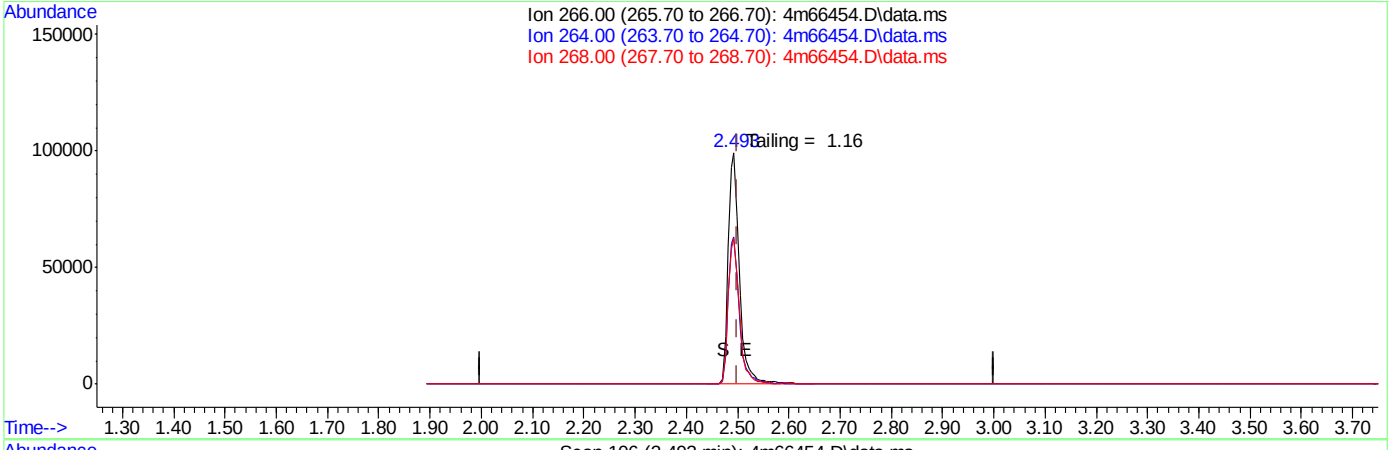
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
436.40	93	443.10	16660				
436.70	104	444.05	1691				
437.30	86						
438.10	102						
438.40	231						
438.90	171						
439.20	214						
439.60	179						
439.90	103						
441.10	12748						
442.10	86768						

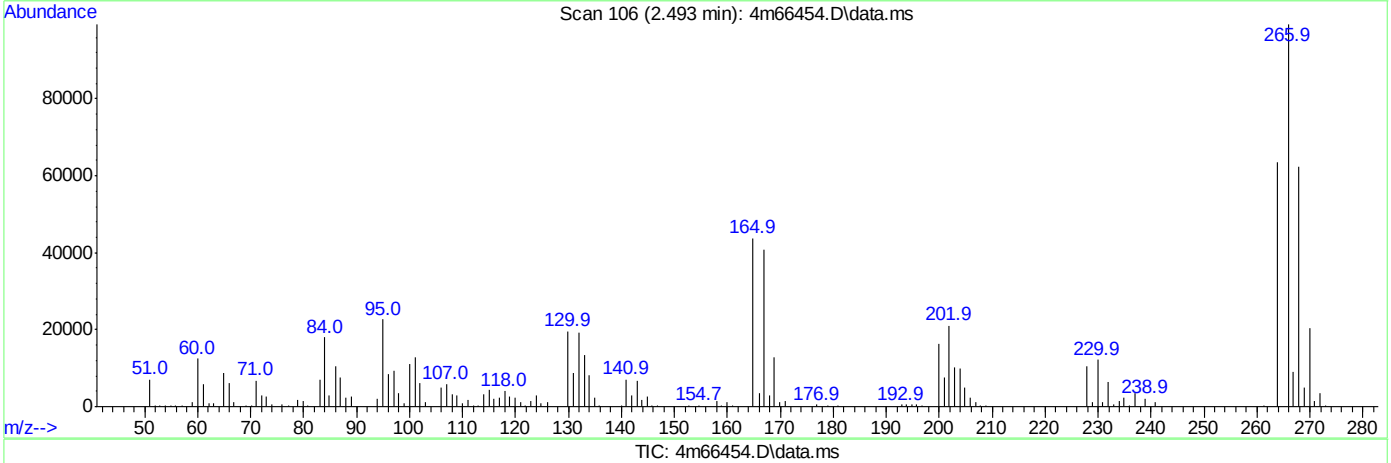
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66454.D
Acq On : 29 Jun 2016 8:26 am
Operator : linseyk
Sample : dftpp
Misc : op95138a,e4m2988
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 08:32:37 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: 4m66454.D\data.ms

(1) pentachlorophenol (t)

2.494min (-0.006) 90.36ppb

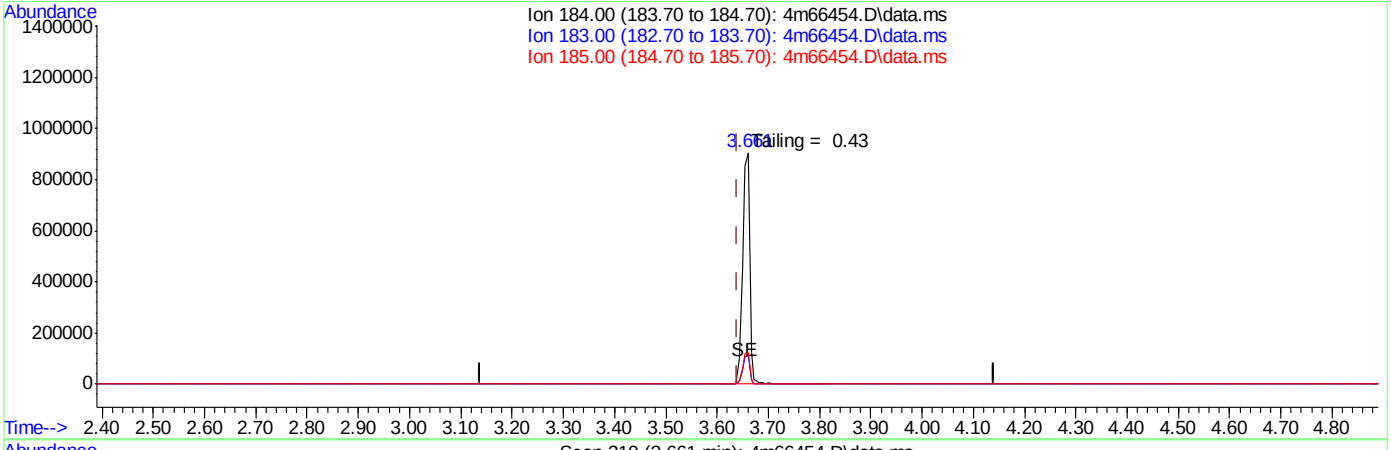
response 1491004

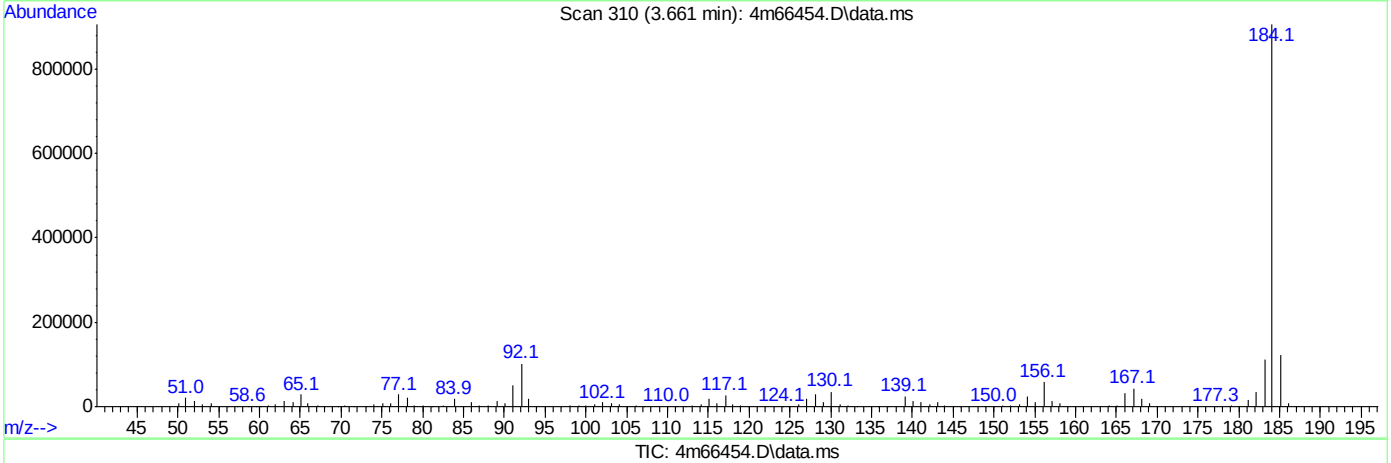
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	63.88
268.00	62.00	63.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66454.D
Acq On : 29 Jun 2016 8:26 am
Operator : linseyk
Sample : dftpp
Misc : op95138a,e4m2988
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 08:32:37 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





(2) benzidine (t)

3.660min (+0.020) 142.85ppb

response 8525847

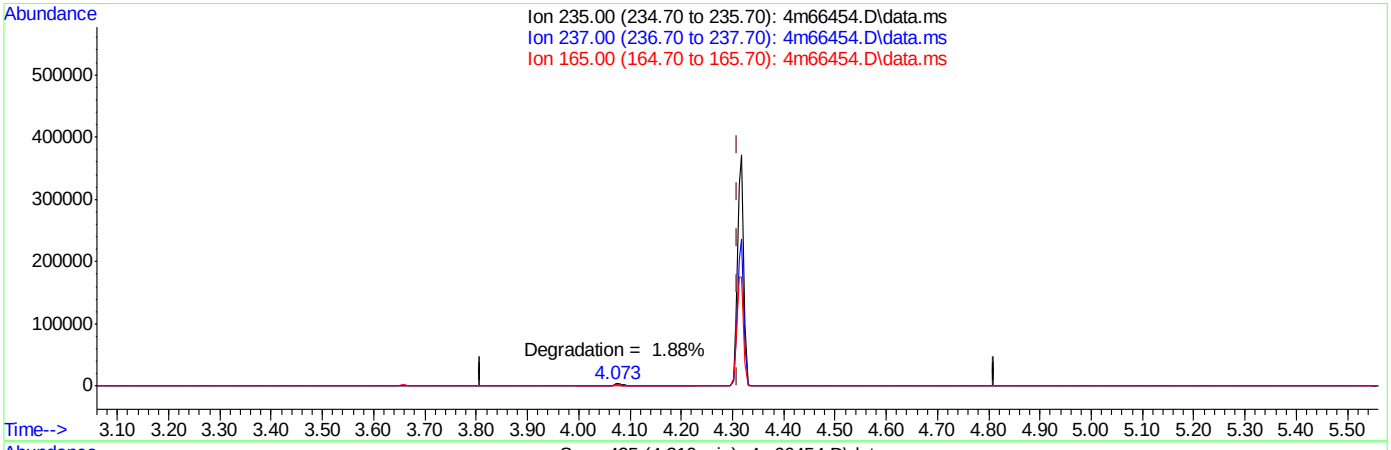
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	12.35
185.00	13.40	13.92
0.00	0.00	0.00

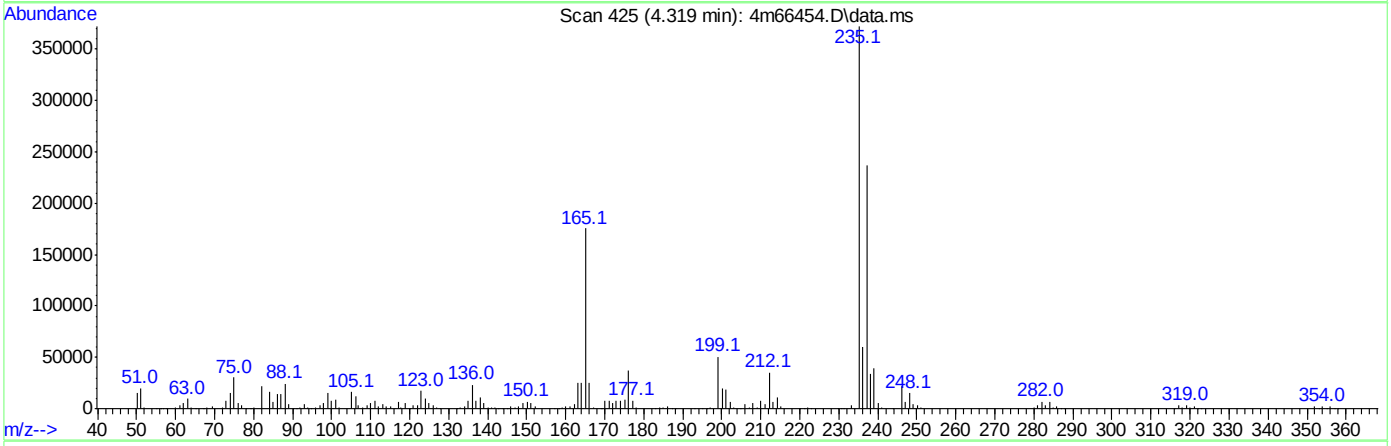
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66454.D
Acq On : 29 Jun 2016 8:26 am
Operator : linseyk
Sample : dftpp
Misc : op95138a,e4m2988
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 08:32:37 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: 4m66454.D\data.ms

(3) ddt (t)

4.319min (+0.009) 114.19ppb

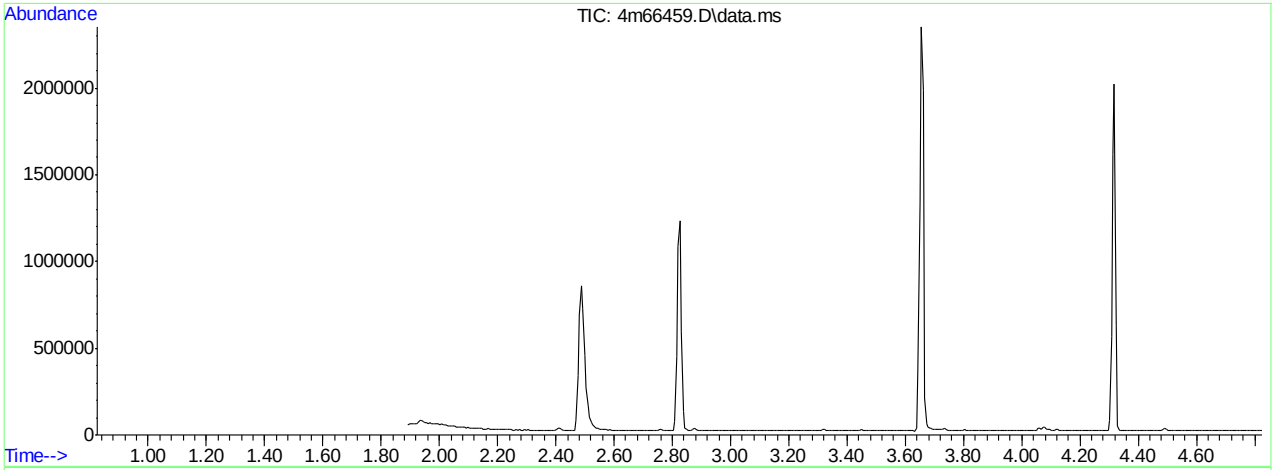
response 3160297

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	63.67
165.00	48.70	50.64
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M2989\4m66459.D Vial: 1
Acq On : 29 Jun 2016 11:16 am Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op94835a,e4m2989 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 163, 164, 165; Background Corrected with Scan 157

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.9	48899	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.2	54720	PASS
70	69	0.00	2	0.6	344	PASS
127	198	40	60	53.0	59048	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111328	PASS
199	198	5	9	6.9	7666	PASS
275	198	10	30	22.5	25099	PASS
365	198	1	100	2.6	2896	PASS
441	443	0.01	100	84.5	14288	PASS
442	198	40	100	80.8	89971	PASS
443	442	17	23	18.8	16901	PASS

4m66459.D DFTPP4M.M Wed Jun 29 15:31:54 2016 MANAGER

Average of 2.819 to 2.831 min.: 4m66459.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	13290	63.95	281	76.15	1624	91.00	802
51.05	48899	65.05	971	77.10	55371	92.05	810
52.05	2661	67.00	187	78.10	3886	93.00	4949
53.00	87	67.20	95	79.00	3615	93.90	344
54.95	186	69.00	54720	80.00	2501	95.95	329
56.00	1527	70.00	344	81.00	3807	98.00	3516
57.00	3235	71.20	74	82.00	796	99.00	3282
58.10	82	73.05	717	83.00	894	100.00	150
61.00	577	74.00	4648	85.00	835	101.00	1777
62.00	753	75.05	6989	86.90	600	102.90	278
63.00	1880	76.00	1092	87.95	152	103.10	428

Average of 2.819 to 2.831 min.: 4m66459.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
104.00	1305	119.00	74	132.05	189	143.00	654
105.00	964	119.90	180	132.90	90	143.80	67
107.00	15399	121.95	953	133.95	566	144.70	73
108.00	2353	123.00	1356	135.00	1483	146.00	420
110.00	31106	123.95	588	136.00	688	147.00	1275
111.00	4462	125.00	759	137.10	734	148.00	2386
111.95	565	127.00	59048	137.90	77	148.90	462
113.05	153	128.00	4208	139.10	73	150.00	96
116.00	955	129.00	21027	139.90	227	151.00	159
117.00	8942	130.00	1606	141.00	2286	151.40	176
118.00	702	130.95	266	142.00	839	151.70	131

Average of 2.819 to 2.831 min.: 4m66459.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.00	125	161.00	1191	172.00	383	182.85	164
152.95	837	162.10	328	173.00	525	183.90	230
153.80	125	162.80	150	174.05	1204	184.20	127
154.05	458	164.10	203	175.00	1879	185.10	1530
155.00	1434	165.05	994	176.05	714	186.10	14072
156.00	1694	166.00	742	177.00	863	187.05	4143
157.00	464	167.00	4473	178.10	163	188.05	339
157.20	159	168.00	2128	179.00	3510	189.00	719
158.00	551	168.95	420	180.00	2345	191.00	431
159.05	363	170.00	86	181.00	1322	192.00	1179
159.95	731	170.70	215	182.15	201	193.05	1293

Average of 2.819 to 2.831 min.: 4m66459.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.95	203	205.10	5958	214.95	271	229.00	1021
194.90	381	206.10	24742	216.00	203	229.90	212
196.00	4077	207.05	3285	217.00	5821	231.00	570
198.00	111328	208.00	843	218.00	949	233.95	361
199.00	7666	208.95	263	221.00	6313	234.95	445
199.90	453	209.90	79	223.05	1792	236.00	303
200.60	81	210.15	350	224.05	13234	237.00	433
201.35	274	210.60	148	225.05	3334	239.00	97
201.60	351	211.00	900	226.00	480	240.00	144
203.00	680	211.50	230	227.00	5302	241.00	259
204.05	3399	212.00	104	227.95	737	242.00	788

Average of 2.819 to 2.831 min.: 4m66459.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.10	1035	256.00	7825	274.10	4939	297.00	850
244.05	11431	257.05	748	275.10	25099	300.90	77
245.10	1776	258.00	2583	276.00	3160	301.90	86
246.00	1772	259.00	631	277.00	1888	303.00	841

M4M2974SIM.M Wed Jun 29 13:13:53 2016 MANAGER Page: 0

247.00	386	263.90	82	278.05	316	313.90	363
249.00	446	265.05	1136	283.10	93	314.95	687
250.10	78	265.95	302	284.05	181	316.10	276
250.70	75	269.80	85	285.05	388	321.00	115
251.95	155	271.10	94	293.05	467	322.00	84
253.40	101	271.90	92	295.00	112	323.05	2371
255.05	54536	273.05	2022	296.00	6333	324.00	488

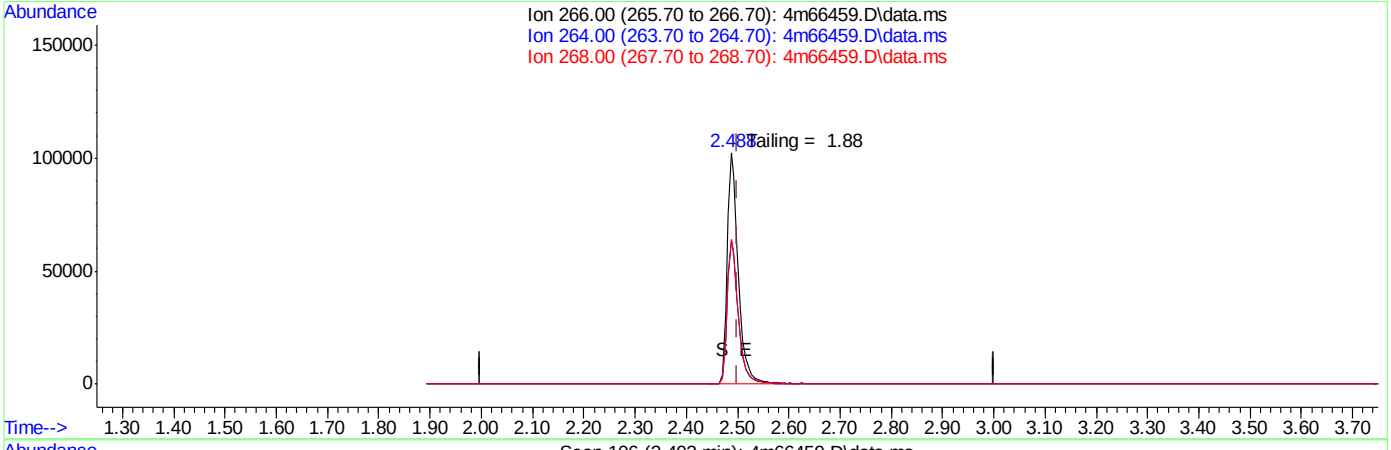
Average of 2.819 to 2.831 min.: 4m66459.D\data.ms
dftpp
Modified:subtracted

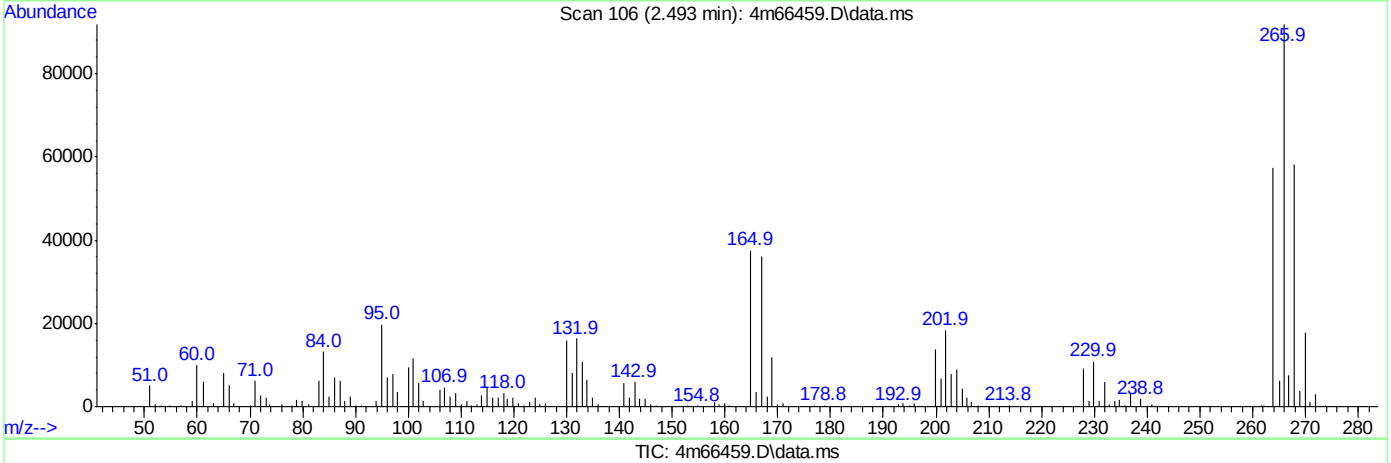
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.90	411	354.05	594	404.00	135	438.20	357
328.00	154	355.00	72	421.00	717	439.05	387
332.00	69	365.05	2896	421.90	189	439.60	210
333.10	282	366.00	466	422.15	442	439.80	159
334.10	1447	371.20	94	423.05	4232	441.10	14288
335.05	472	372.05	1389	424.05	892	442.10	89971
340.95	297	373.00	219	434.90	77	443.10	16901
346.05	562	383.05	346	435.70	71	444.05	1612
352.05	793	390.10	71	436.50	86		
352.70	121	402.05	396	437.20	144		
353.05	553	403.05	857	437.60	93		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66459.D
Acq On : 29 Jun 2016 11:16 am
Operator : linseyk
Sample : dftpp
Misc : op94835a,e4m2989
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:57:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu May 09 19:13:56 2013
Response via : Initial Calibration





TIC: 4m66459.D\data.ms

(1) pentachlorophenol (t)

2.491min (-0.009) 93.07ppb

response 1535774

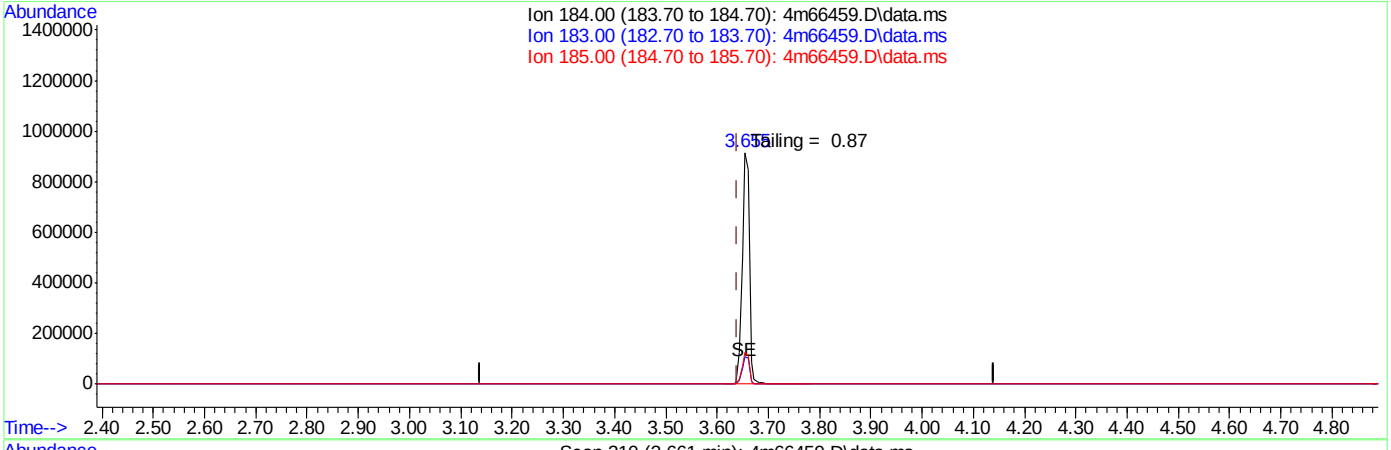
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	63.58
268.00	62.00	62.40
0.00	0.00	0.00

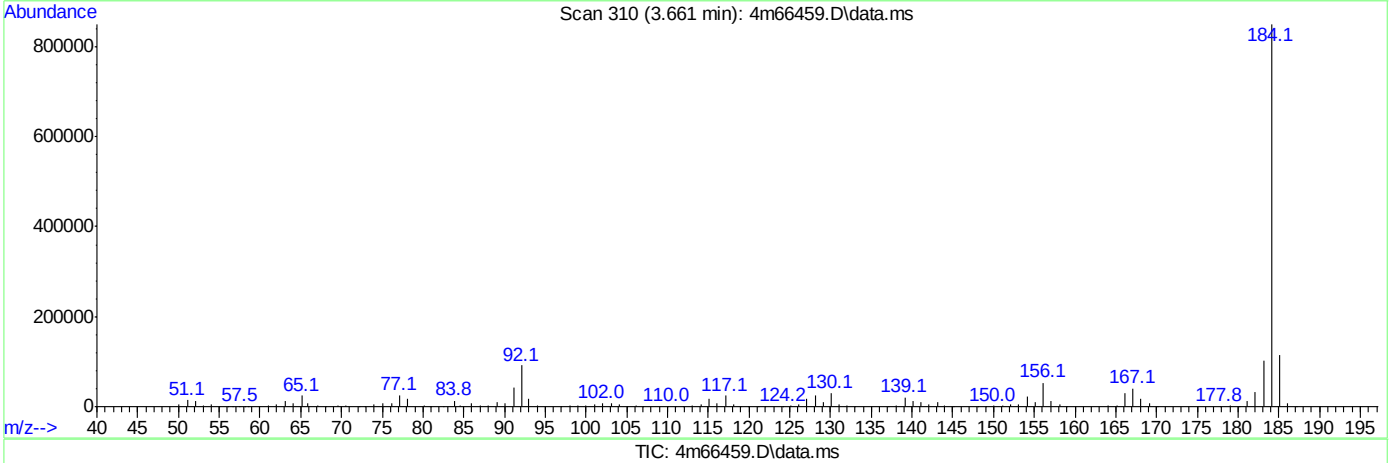
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66459.D
Acq On : 29 Jun 2016 11:16 am
Operator : linseyk
Sample : dftpp
Misc : op94835a,e4m2989
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:57:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu May 09 19:13:56 2013
Response via : Initial Calibration





TIC: 4m66459.D\data.ms

(2) benzidine (t)

3.659min (+0.019) 144.68ppb

response 8635403

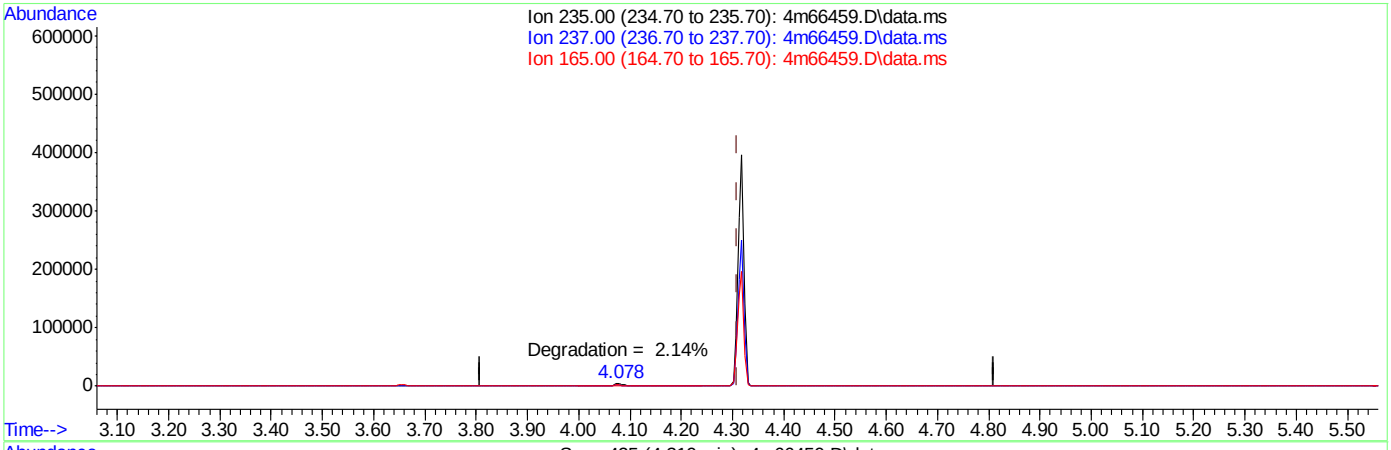
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	12.11
185.00	13.40	13.76
0.00	0.00	0.00

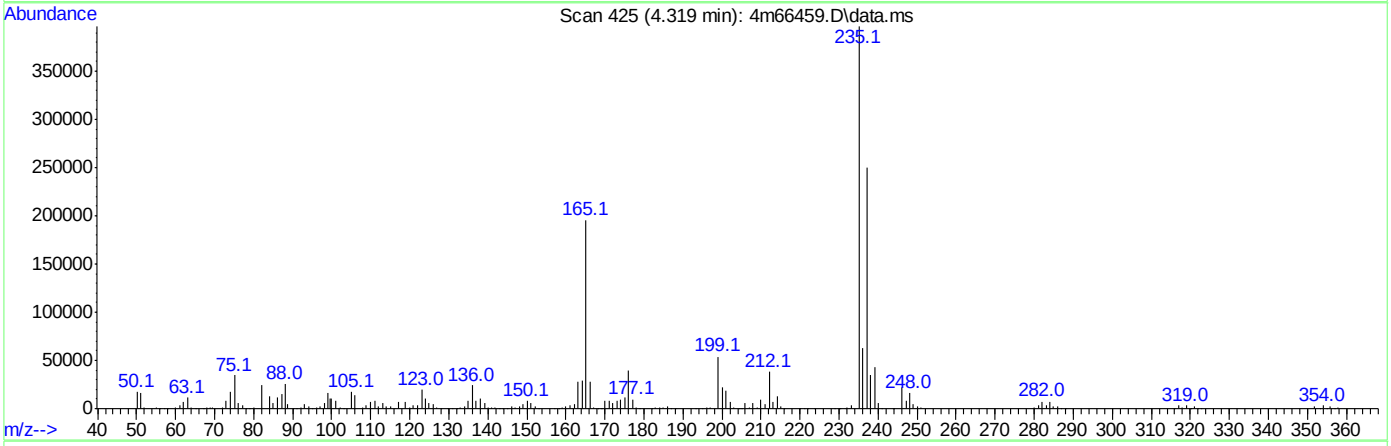
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66459.D
Acq On : 29 Jun 2016 11:16 am
Operator : linseyk
Sample : dftpp
Misc : op94835a,e4m2989
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:57:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu May 09 19:13:56 2013
Response via : Initial Calibration





TIC: 4m66459.D\data.ms

(3) ddt (t)

4.320min (+0.010) 115.54ppb

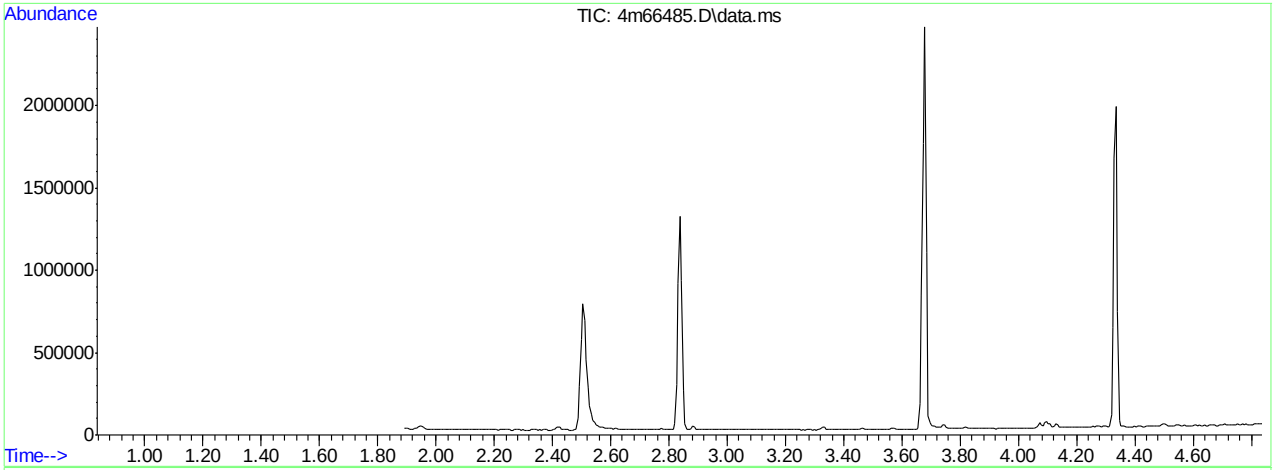
response 3197589

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	63.55
165.00	48.70	50.45
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M2990\4m66485.D Vial: 1
Acq On : 30 Jun 2016 8:42 am Operator: linseyk
Sample : dftpp Inst : GCMS4M
Misc : op95121a,e4m2990 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 165, 166, 167; Background Corrected with Scan 161

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.7	54860	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.6	59660	PASS
70	69	0.00	2	0.9	524	PASS
127	198	40	60	51.2	62896	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	122755	PASS
199	198	5	9	6.9	8433	PASS
275	198	10	30	23.0	28293	PASS
365	198	1	100	2.3	2828	PASS
441	443	0.01	100	75.4	13931	PASS
442	198	40	100	74.0	90896	PASS
443	442	17	23	20.3	18470	PASS

4m66485.D DFTPP4M.M Thu Jun 30 11:13:36 2016 MANAGER

Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	13935	62.00	837	78.10	4257	91.00	629
51.05	54860	63.10	2033	79.00	3311	92.05	943
52.05	2771	64.05	251	80.00	2820	93.00	6010
53.05	275	65.05	1116	81.00	4118	94.00	465
54.95	345	69.00	59660	81.95	1100	94.95	364
56.00	1496	69.90	524	83.00	786	96.05	413
57.00	3661	73.05	429	84.95	761	97.00	138
57.95	215	74.05	5047	86.00	814	98.05	3788
58.90	78	75.00	8409	87.10	386	99.00	3479
60.00	82	76.10	3124	87.90	487	100.05	383
61.00	747	77.10	59440	88.90	67	101.00	2225

Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.90	108	117.00	9838	129.00	22464	140.20	96
102.95	976	117.95	702	130.00	1897	141.00	2810
103.95	1312	119.05	164	131.10	427	142.00	947
105.00	1344	120.00	99	132.00	249	142.90	649
107.00	16697	120.90	68	133.00	49	143.85	199
108.00	2736	122.00	1026	134.00	543	145.10	235
110.00	33355	122.95	1454	135.05	1751	145.95	469
111.00	4890	123.95	677	136.00	704	147.05	1303
112.00	659	125.00	742	137.05	827	148.00	2597
113.05	227	127.00	62896	139.00	100	149.00	491
116.10	1175	128.05	5123	140.00	76	150.00	157

Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
150.95	290	158.05	328	169.05	389	177.80	171
151.20	105	158.95	471	169.95	183	178.20	152
151.50	208	160.00	1038	170.90	115	179.00	3669
151.90	103	161.00	1569	171.90	472	180.00	2612
152.30	85	161.70	103	172.90	510	181.00	1256
153.00	841	161.95	234	173.10	257	181.90	185
153.95	597	164.95	767	173.95	1137	182.10	76
154.95	1491	166.05	882	175.10	2142	183.00	183
156.05	2287	167.05	5282	175.80	130	183.85	262
157.05	547	168.00	2577	175.95	543	184.10	180
157.80	113	168.80	130	177.00	909	185.10	1799

Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.10	14290	198.00	122755	207.05	3255	221.05	7340
187.05	4079	199.00	8433	208.05	872	222.10	285
188.05	498	200.00	697	208.95	315	223.05	2015
188.90	475	201.10	101	209.90	268	224.05	14465
189.10	267	201.40	193	211.00	1290	225.05	3534
189.90	94	201.60	579	212.05	174	226.05	589
191.05	444	202.10	127	215.00	262	227.00	5181
192.05	1125	203.00	838	216.00	340	227.95	816
193.00	1388	204.05	3933	217.00	6747	229.00	1232
194.05	378	205.10	6740	218.00	889	230.00	220
196.05	4664	206.10	27757	220.00	104	231.00	716

Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.95	196	244.10	12959	255.05	58797	273.00	1995
234.05	355	245.05	1438	256.00	8853	274.05	5349
234.95	459	246.00	1949	257.00	746	275.10	28293
235.95	392	246.95	556	258.00	2772	276.10	3875

M4M2974SIM.M Thu Jun 30 09:14:43 2016 MANAGER Page: 0

236.95	549	248.10	75	259.05	513	277.05	1928
238.95	290	248.95	501	264.05	313	277.95	380
240.00	216	251.00	85	265.05	1082	283.05	237
240.70	141	252.00	182	265.90	151	284.05	178
241.00	325	252.60	84	267.90	84	285.00	514
242.05	765	253.05	345	269.90	84	289.10	92
243.05	1040	253.60	228	272.00	81	291.90	73

Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
293.05	506	323.10	2177	346.05	366	373.05	359
294.10	84	323.90	76	352.05	833	383.05	382
296.05	6346	324.10	389	353.15	459	390.05	169
297.00	1131	327.00	433	354.10	889	402.05	447
303.05	810	327.90	76	355.10	182	403.10	769
304.05	290	332.10	148	363.70	79	404.10	198
313.95	439	332.95	283	365.05	2828	421.05	566
315.00	820	334.05	1525	366.00	571	422.00	685
316.05	388	335.05	482	370.80	91	423.10	4696
320.90	235	341.05	323	371.00	77	424.05	974
322.00	86	345.90	112	372.10	1503	434.30	90

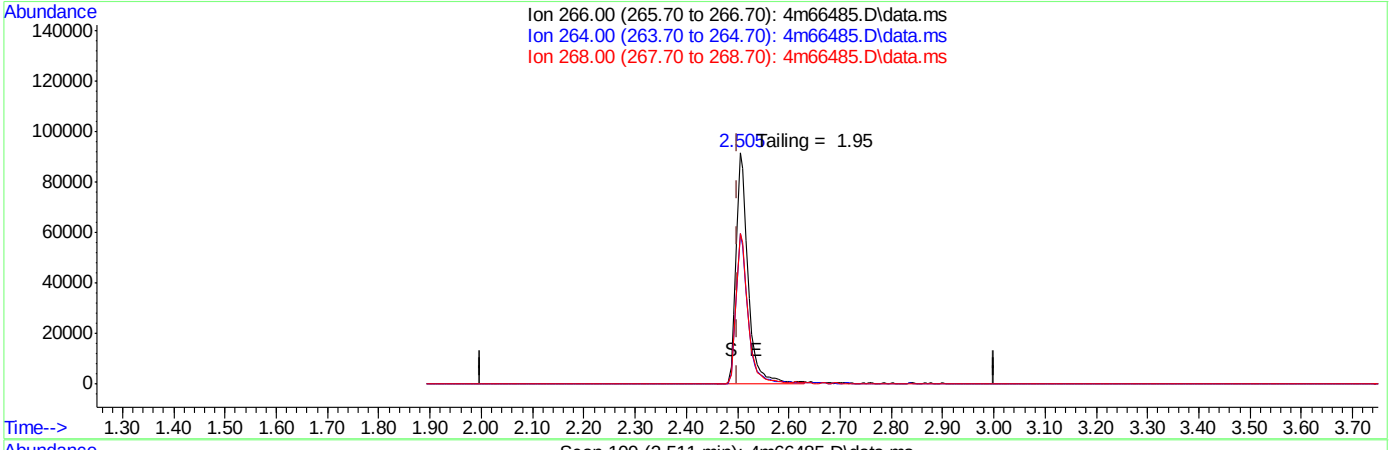
Average of 2.831 to 2.842 min.: 4m66485.D\data.ms
dftpp
Modified:subtracted

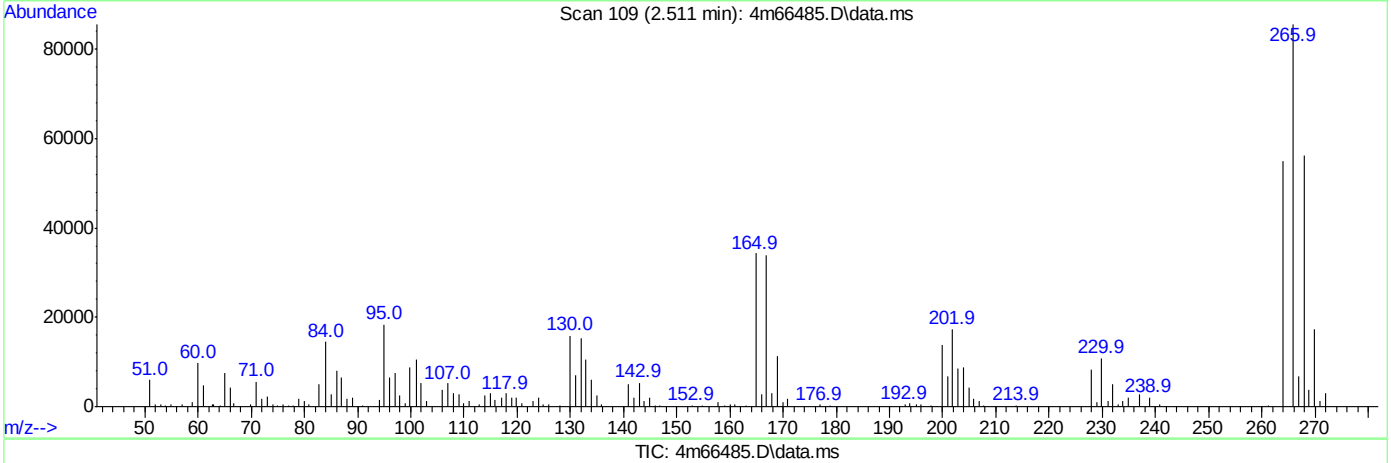
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
436.00	77	444.05	1479				
436.30	79						
437.00	124						
437.60	144						
438.25	259						
438.90	353						
439.45	250						
439.80	220						
441.10	13931						
442.10	90896						
443.10	18470						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66485.D
Acq On : 30 Jun 2016 8:42 am
Operator : linseyk
Sample : dftpp
Misc : op95121a,e4m2990
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 08:47:45 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: 4m66485.D\data.ms

(1) pentachlorophenol (t)

2.509min (+0.009) 87.50ppb

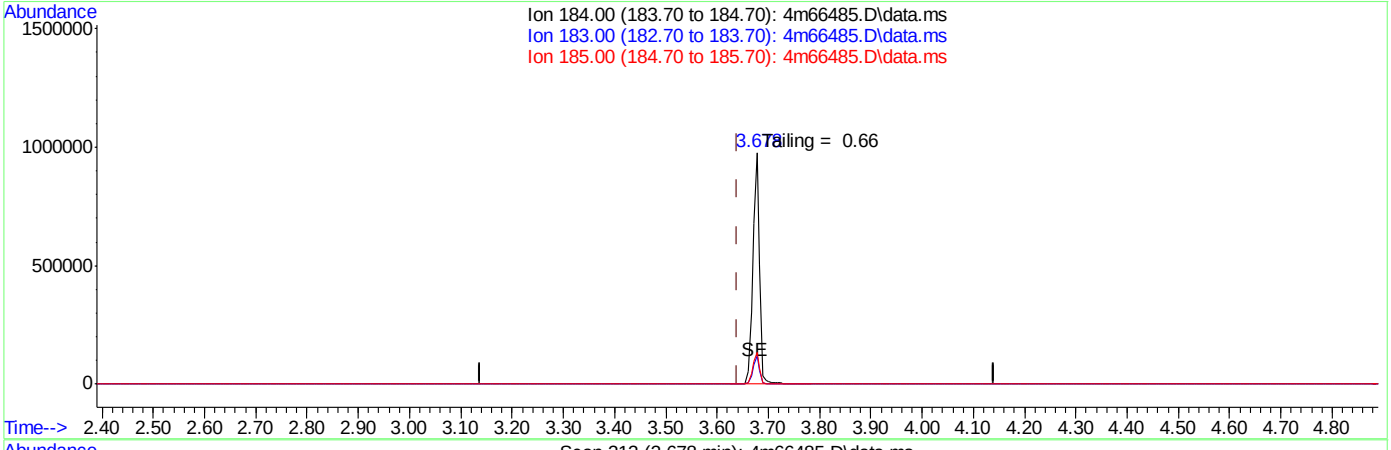
response 1443866

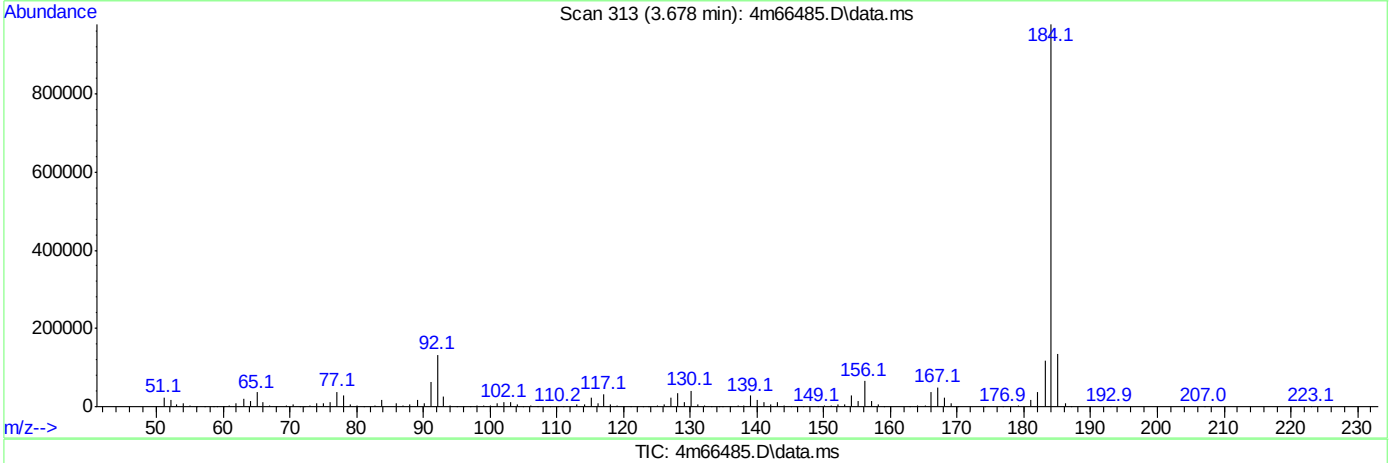
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	64.66
268.00	62.00	65.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66485.D
Acq On : 30 Jun 2016 8:42 am
Operator : linseyk
Sample : dftpp
Misc : op95121a,e4m2990
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 08:47:45 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





(2) benzidine (t)

3.679min (+0.039) 149.13ppb

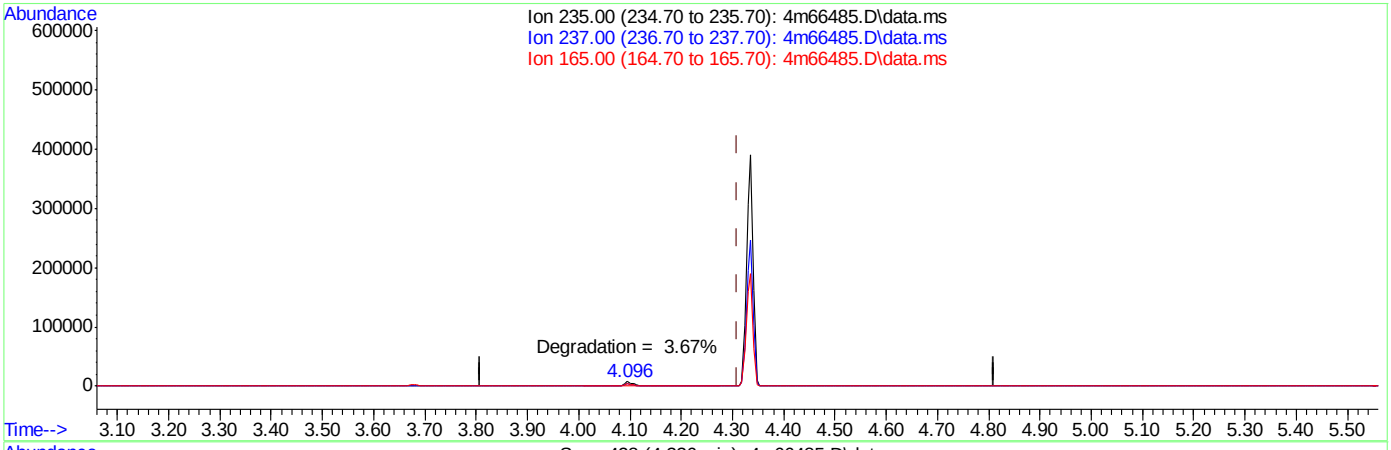
response 8900714

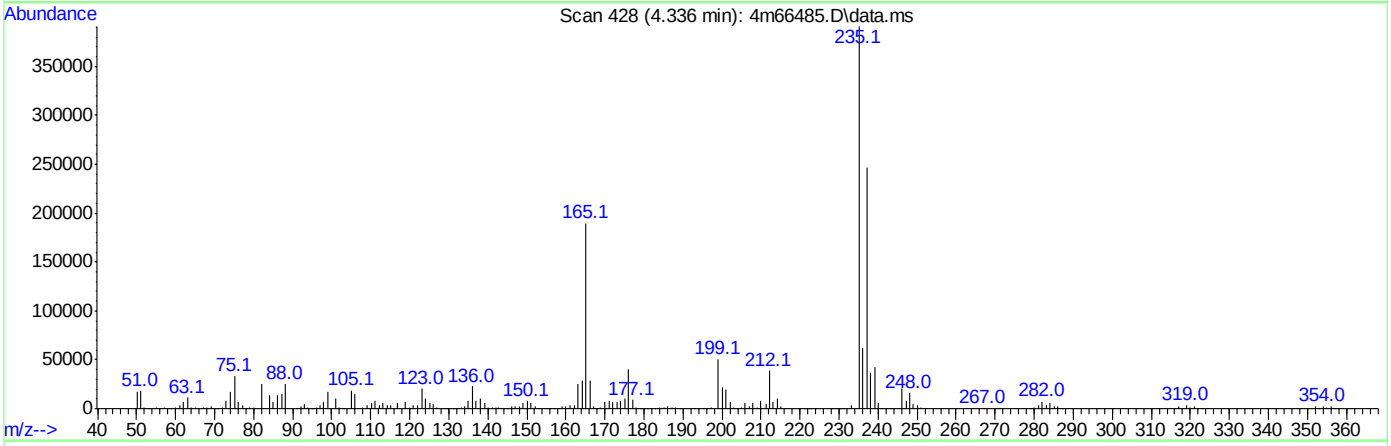
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	12.05
185.00	13.40	13.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66485.D
Acq On : 30 Jun 2016 8:42 am
Operator : linseyk
Sample : dftpp
Misc : op95121a,e4m2990
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 08:47:45 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: 4m66485.D\data.ms

(3) ddt (t)

4.337min (+0.027) 121.65ppb

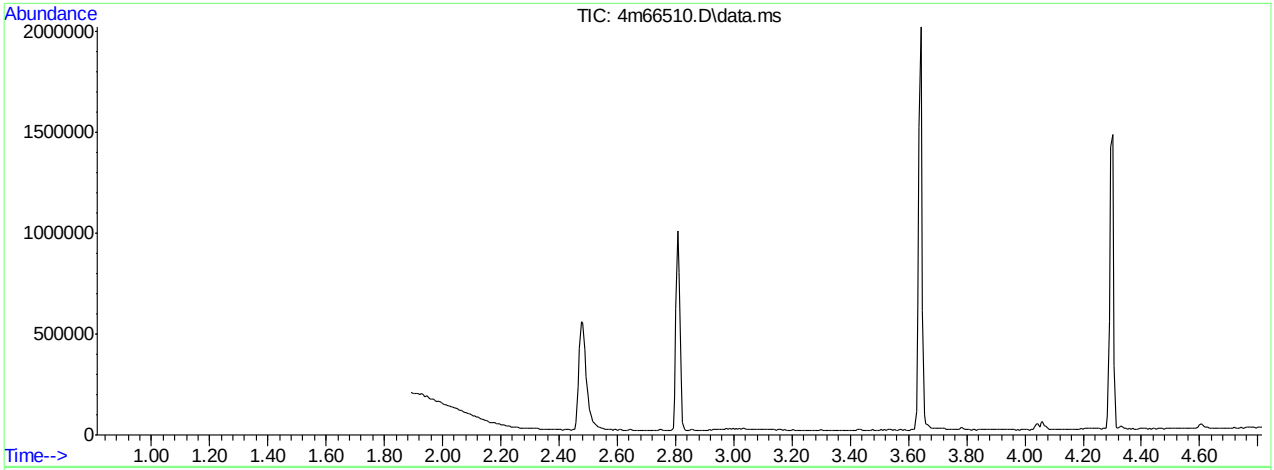
response 3366745

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	63.33
165.00	48.70	48.79
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M2991\4m66510.D Vial: 1
Acq On : 30 Jun 2016 10:19 pm Operator: juliusj
Sample : dftpp Inst : GCMS4M
Misc : op95121a,e4m2991 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 161, 162, 163; Background Corrected with Scan 156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.7	30986	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.8	36686	PASS
70	69	0.00	2	0.4	145	PASS
127	198	40	60	49.4	39605	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	80125	PASS
199	198	5	9	7.0	5588	PASS
275	198	10	30	22.5	18033	PASS
365	198	1	100	2.8	2273	PASS
441	443	0.01	100	81.6	10927	PASS
442	198	40	100	87.6	70171	PASS
443	442	17	23	19.1	13394	PASS

4m66510.D DFTPP4M.M Fri Jul 01 09:14:43 2016 MANAGER

Average of 2.808 to 2.820 min.: 4m66510.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.05	7247	62.00	548	74.00	2592	85.95	137
51.00	30986	63.05	1376	75.00	4983	86.95	493
52.05	1969	63.90	181	76.10	1949	87.90	233
53.05	169	64.80	84	77.05	35859	91.00	638
55.05	226	65.05	637	78.05	2385	92.00	709
55.95	1049	65.90	70	78.95	2095	93.00	3578
57.00	2408	67.05	66	79.95	1839	94.00	291
58.00	230	69.00	36686	81.00	2482	95.95	487
59.00	95	70.00	145	81.90	436	97.95	2572
60.00	106	70.95	21	82.95	566	99.00	2062
61.00	460	73.05	259	85.00	393	100.00	192

Average of 2.808 to 2.820 min.: 4m66510.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.00	1306	113.90	68	125.05	463	136.90	635
102.00	90	115.10	280	127.00	39605	138.00	83
102.95	663	115.95	741	128.05	3108	141.00	1767
103.95	833	117.00	5865	129.00	14576	141.95	564
105.00	622	118.00	503	130.00	1258	142.95	451
107.00	10271	119.05	197	131.00	291	144.00	154
108.00	1635	120.10	74	131.90	107	145.60	76
110.00	20891	121.10	96	133.00	238	146.00	307
111.00	3053	122.05	702	133.90	362	147.00	731
111.95	338	123.00	1164	135.00	1196	148.00	1647
113.00	93	123.95	402	136.00	463	148.95	539

Average of 2.808 to 2.820 min.: 4m66510.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
150.05	175	158.90	245	172.05	245	182.00	185
151.15	328	159.95	462	173.05	521	182.95	187
151.70	146	161.05	778	173.70	146	184.00	215
152.10	191	161.90	264	174.00	703	185.00	1192
152.90	313	163.10	91	175.00	1424	186.05	9888
153.10	206	163.90	77	176.00	550	187.00	3047
153.95	371	165.00	793	176.85	615	188.05	311
155.00	1128	166.05	687	177.90	111	189.00	475
156.05	1441	166.95	3405	179.00	2528	190.90	191
157.00	370	168.00	1671	180.00	1971	191.10	162
157.85	437	169.00	311	181.05	1006	192.05	897

Average of 2.808 to 2.820 min.: 4m66510.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
192.95	1021	204.00	2617	215.95	500	227.00	3576
193.90	151	205.10	4537	217.00	4281	227.85	401
194.20	70	206.10	18472	218.00	633	228.95	713
195.05	230	207.05	2525	219.90	107	231.05	346
196.10	2781	208.05	715	221.00	4988	232.90	76
198.00	80125	209.00	209	221.70	493	233.95	239
199.00	5588	209.80	95	222.15	414	235.00	246
200.00	391	210.10	182	223.05	1086	236.00	161
200.90	113	210.60	262	224.10	9774	237.00	400
201.55	552	211.15	767	225.05	2540	238.95	197
203.00	594	214.95	153	226.05	366	239.90	76

Average of 2.808 to 2.820 min.: 4m66510.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.00	279	253.30	149	270.00	75	283.90	99
242.05	533	255.00	40032	272.05	218	285.10	265
243.15	823	256.00	6018	273.05	1299	293.10	330
244.10	8418	256.90	298	274.05	3739	294.90	116

M4M2974SIM.M Fri Jul 01 09:09:39 2016 MANAGER Page: 0

245.05	1138	257.05	298	275.05	18033	296.00	4184
246.00	1303	258.00	2162	276.00	2292	296.95	656
246.95	288	259.00	411	277.00	1469	301.90	88
248.95	290	263.90	99	278.00	222	303.05	650
251.80	67	265.00	829	281.20	69	304.00	88
252.10	91	265.80	9	283.00	141	313.80	177
253.10	163	267.00	79	283.20	72	315.00	580

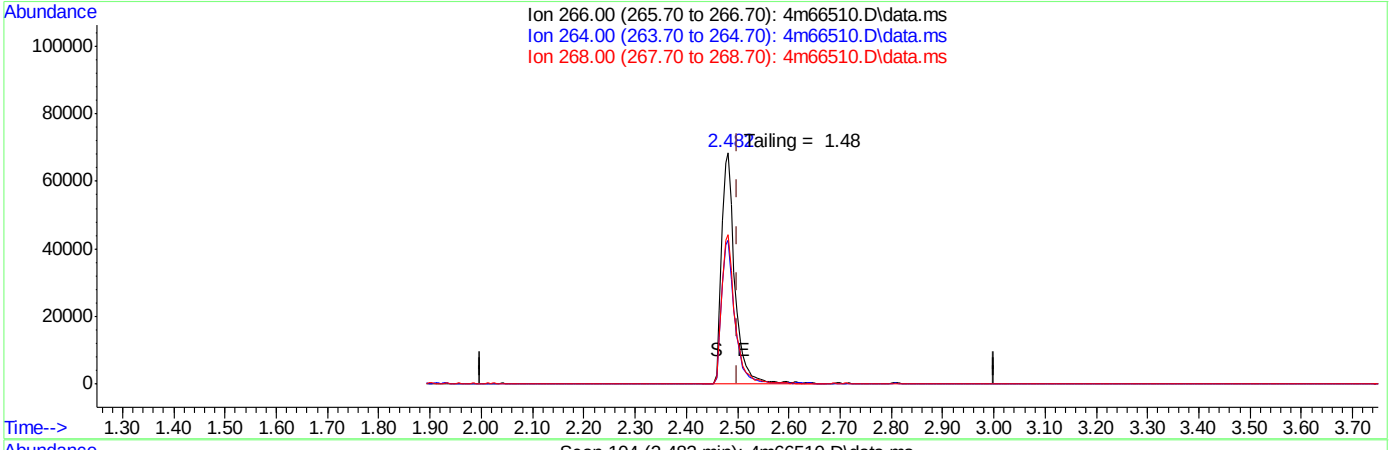
Average of 2.808 to 2.820 min.: 4m66510.D\data.ms
dftpp
Modified:subtracted

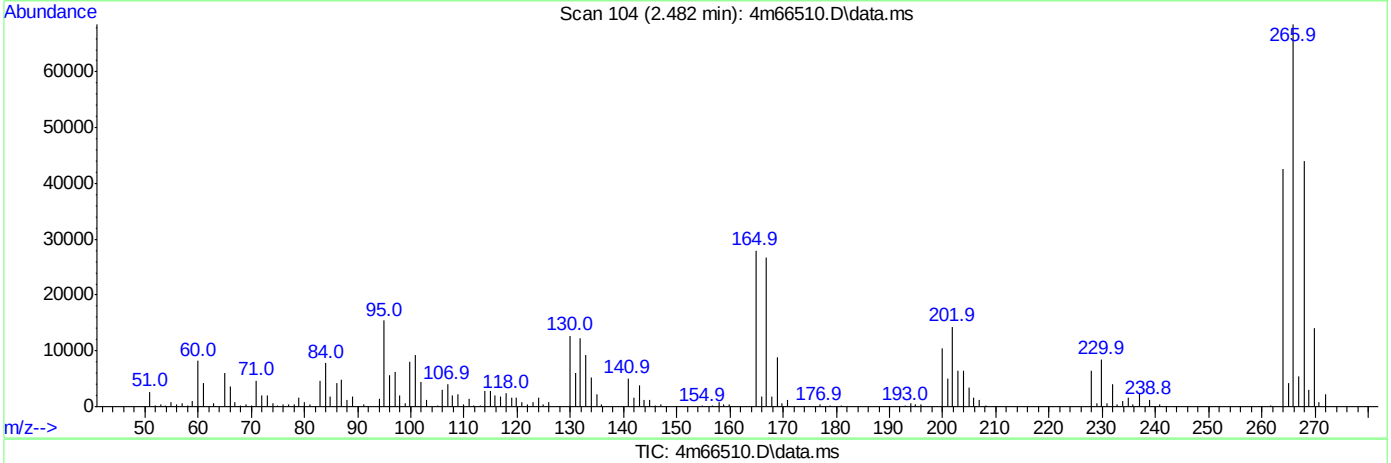
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
316.10	251	341.00	83	382.80	107	438.50	102
317.10	72	346.05	350	383.10	67	439.20	104
321.00	73	352.00	524	390.00	71	439.80	170
323.05	1699	353.10	429	391.00	73	441.10	10927
324.05	317	354.05	532	401.95	544	442.10	70171
327.00	286	364.00	95	403.00	537	443.10	13394
327.95	187	365.05	2273	404.00	68	444.10	1147
331.90	84	366.00	240	421.00	592		
333.10	71	370.95	161	422.00	457		
334.00	1010	372.05	936	423.10	3519		
334.95	247	373.00	139	424.10	796		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66510.D
Acq On : 30 Jun 2016 10:19 pm
Operator : juliusj
Sample : dftpp
Misc : op95121a,e4m2991
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 22:25:20 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: 4m66510.D\data.ms

(1) pentachlorophenol (t)

2.482min (-0.018) 74.88ppb

response 1235599

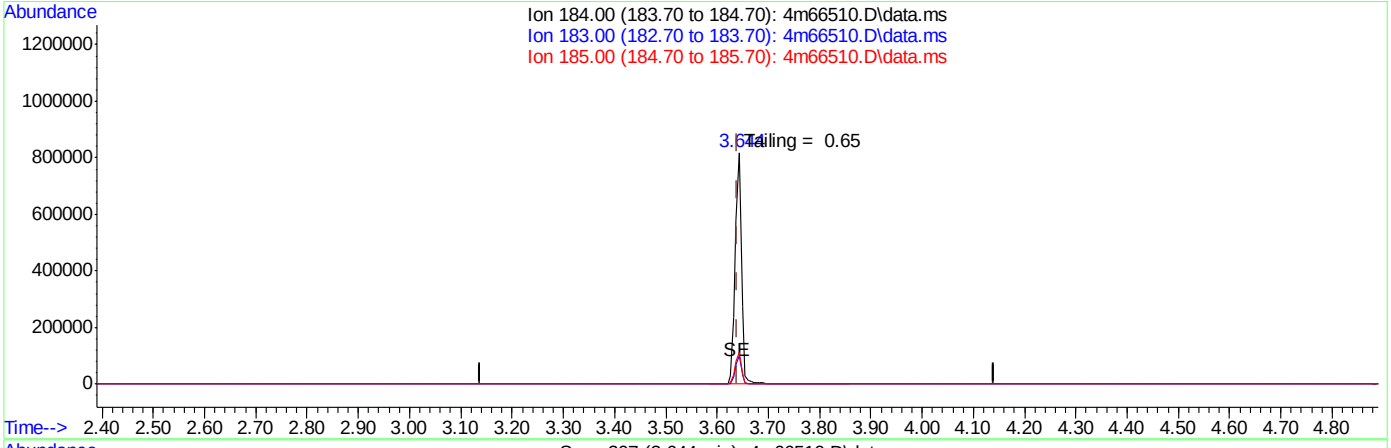
Ion	Exp%	Act%
266.00	100	100
264.00	58.00	61.32
268.00	62.00	62.78
0.00	0.00	0.00

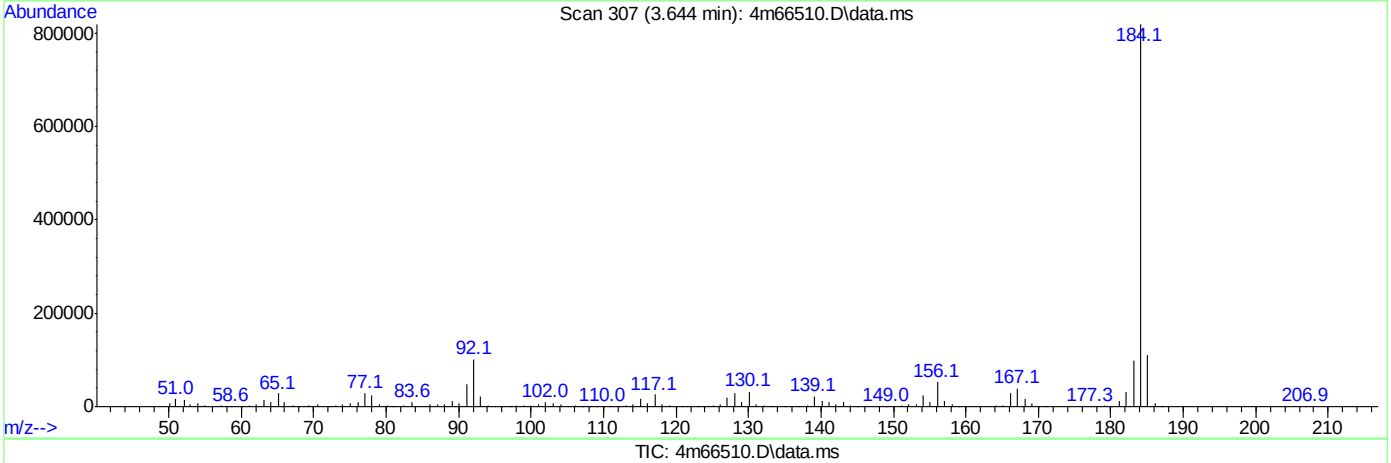
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66510.D
Acq On : 30 Jun 2016 10:19 pm
Operator : juliusj
Sample : dftpp
Misc : op95121a,e4m2991
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 22:25:20 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





(2) benzidine (t)

3.645min (+0.005) 114.50ppb

response 6834033

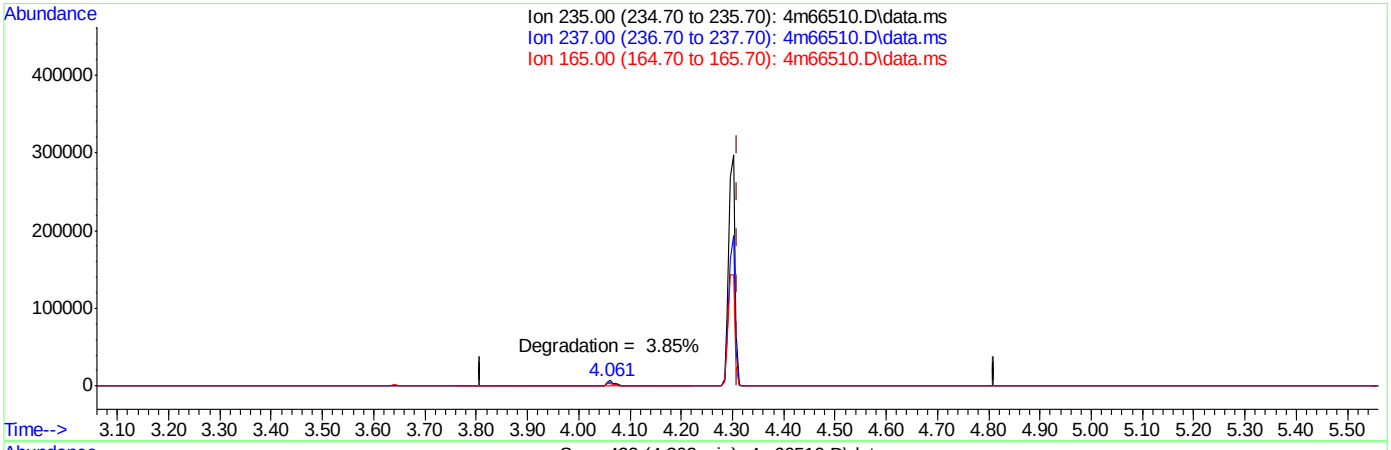
Ion	Exp%	Act%
184.00	100	100
183.00	10.60	11.91
185.00	13.40	13.80
0.00	0.00	0.00

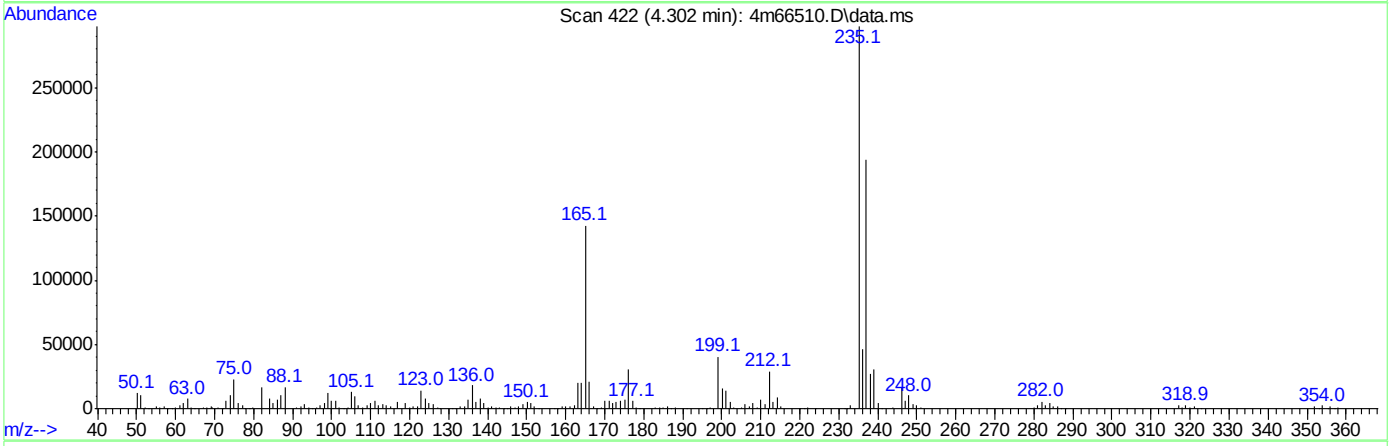
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66510.D
Acq On : 30 Jun 2016 10:19 pm
Operator : juliusj
Sample : dftpp
Misc : op95121a,e4m2991
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 30 22:25:20 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: 4m66510.D\data.ms

(3) ddt (t)

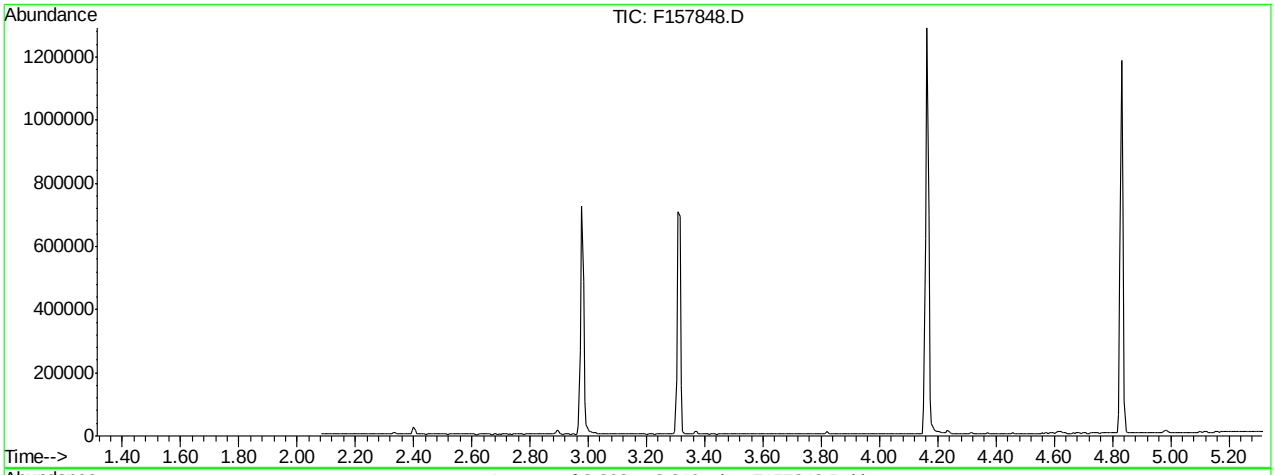
4.301min (-0.009) 91.33ppb

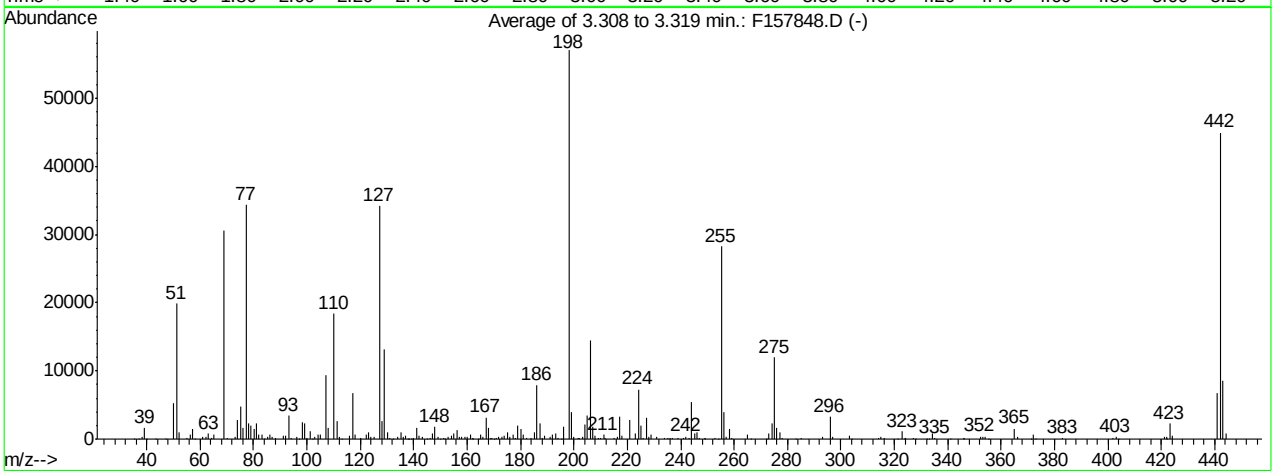
response 2527599

Ion	Exp%	Act%
235.00	100	100
237.00	63.70	64.05
165.00	48.70	50.72
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6644\F157848.D Vial: 1
Acq On : 9 Jun 2016 7:36 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6644 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 230, 231, 232; Background Corrected with Scan 225

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.8	19838	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.7	30591	PASS
70	69	0.00	2	0.6	187	PASS
127	198	40	60	59.9	34116	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56985	PASS
199	198	5	9	7.1	4019	PASS
275	198	10	30	21.0	11955	PASS
365	198	1	100	2.6	1510	PASS
441	443	0.10	100	77.7	6681	PASS
442	198	40	100	78.8	44896	PASS
443	442	17	23	19.2	8599	PASS

F157848.D DFTPPF.M Thu Jun 09 07:45:00 2016 RT1

Average of 3.308 to 3.319 min.: F157848.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	55	56.10	634	74.10	2866	85.10	385
37.10	61	57.10	1523	75.10	4804	86.00	615
38.10	281	57.90	51	76.15	1631	87.05	268
39.10	1595	61.10	332	77.10	34322	88.00	102
40.00	85	62.05	345	78.10	2357	91.05	482
43.10	55	63.10	821	79.10	2031	92.00	561
47.00	66	64.10	141	80.10	1463	93.10	3402
50.10	5257	65.10	649	81.10	2295	94.05	172
51.10	19838	69.05	30591	82.05	628	96.10	252
52.10	986	70.10	187	83.10	603	96.90	56
55.10	150	73.15	309	84.00	49	98.10	2460

Average of 3.308 to 3.319 min.: F157848.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.10	2227	112.00	310	128.05	2582	138.90	64
100.10	205	113.00	87	129.05	13222	139.95	151
101.10	1171	116.05	452	130.05	1011	141.00	1582
102.00	60	117.10	6808	131.05	165	142.05	481
103.05	386	118.05	618	132.10	56	143.00	346
104.00	741	120.00	135	134.05	301	144.90	54
105.05	676	122.05	700	135.10	1057	145.95	191
107.10	9457	123.00	917	136.00	341	147.00	848
108.10	1601	124.00	407	137.05	524	148.00	1762
110.10	18365	125.05	360	137.80	79	149.00	397
111.10	2680	127.10	34116	138.10	72	150.10	71

Average of 3.308 to 3.319 min.: F157848.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.10	186	161.90	113	171.95	262	184.05	198
151.80	81	162.10	77	173.05	355	185.05	1067
153.05	358	164.10	58	174.05	534	186.10	7974
154.00	424	165.05	617	175.10	1053	187.10	2315
155.05	807	166.05	288	176.10	363	188.00	239
156.10	1338	167.10	3154	177.05	590	189.00	491
157.10	255	168.05	1701	178.00	131	190.95	274
157.95	256	168.90	106	179.05	2047	192.05	639
159.00	254	169.10	118	180.05	1555	193.10	806
160.05	415	170.10	50	181.05	673	194.15	187
161.05	721	171.00	151	182.05	133	195.10	57

Average of 3.308 to 3.319 min.: F157848.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
196.05	1804	208.05	470	224.10	7297	239.05	118
198.00	56985	208.95	165	225.10	2011	241.15	133
199.00	4019	210.10	143	226.10	230	242.05	332
200.00	276	211.05	645	227.10	3093	243.10	180
201.45	224	211.85	189	228.05	363	244.10	5358
202.10	120	215.00	168	229.05	734	245.10	747
203.05	348	216.15	309	231.00	256	246.10	982
204.10	2097	217.00	3349	234.00	183	247.05	177
205.10	3428	218.05	542	235.00	151	248.90	64
206.10	14407	221.05	2863	235.95	152	249.10	98
207.10	1801	223.00	809	236.95	224	252.95	156

Average of 3.308 to 3.319 min.: F157848.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
254.00	82	275.10	11955	314.15	138	334.05	815
255.10	28223	276.05	1674	315.00	302	335.10	150
256.05	4024	277.05	1043	316.00	171	341.10	83
257.10	275	278.00	125	321.10	53	345.90	82

258.05	1529	283.00	68	323.10	1133	346.10	234
259.00	206	285.10	141	323.90	70	352.10	382
265.05	685	293.10	269	324.10	99	353.10	282
266.10	60	296.00	3250	327.05	135	354.00	406
271.90	52	297.00	405	327.90	50	355.10	54
273.10	893	303.00	467	332.10	57	365.00	1510
274.05	2336	304.00	55	333.10	69	366.00	270

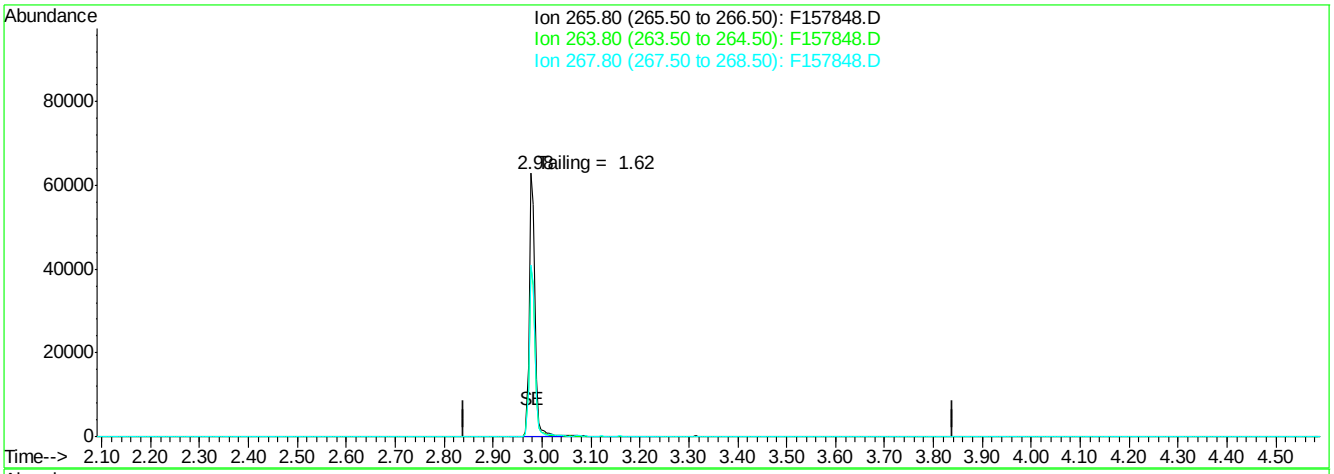
Average of 3.308 to 3.319 min.: F157848.D
dftpp
Modified:subtracted

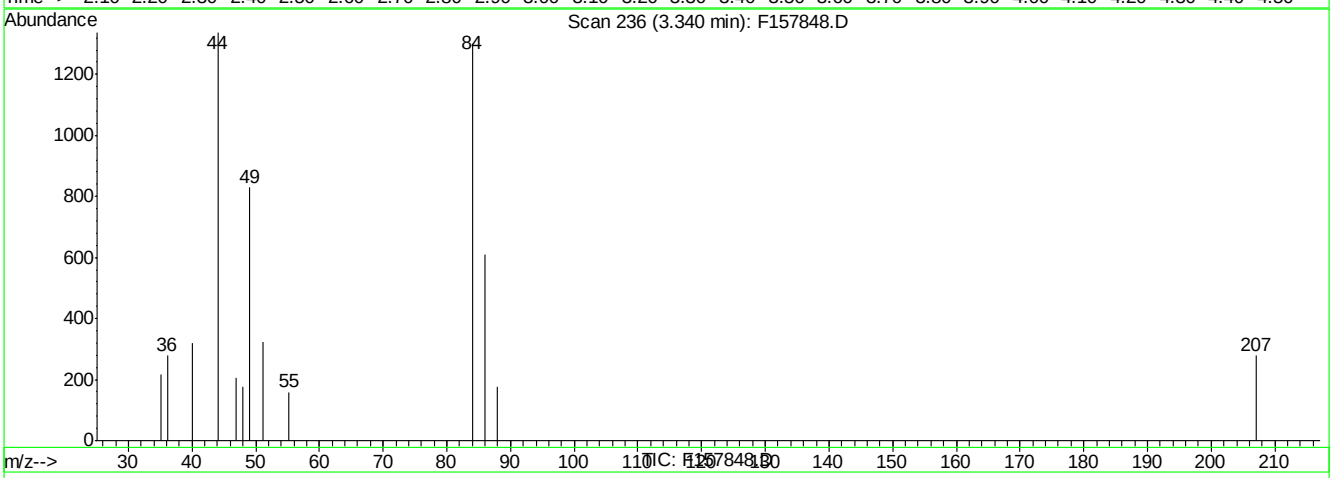
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.10	69	424.05	539				
372.05	605	441.10	6681				
373.00	66	442.10	44896				
383.00	131	443.10	8599				
402.00	222	444.10	896				
402.95	308						
404.00	64						
421.10	314						
421.90	82						
422.05	286						
423.10	2233						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157848.D Vial: 1
Acq On : 9 Jun 2016 7:36 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 7:42 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)

3.34min 0.00ppb

response 0

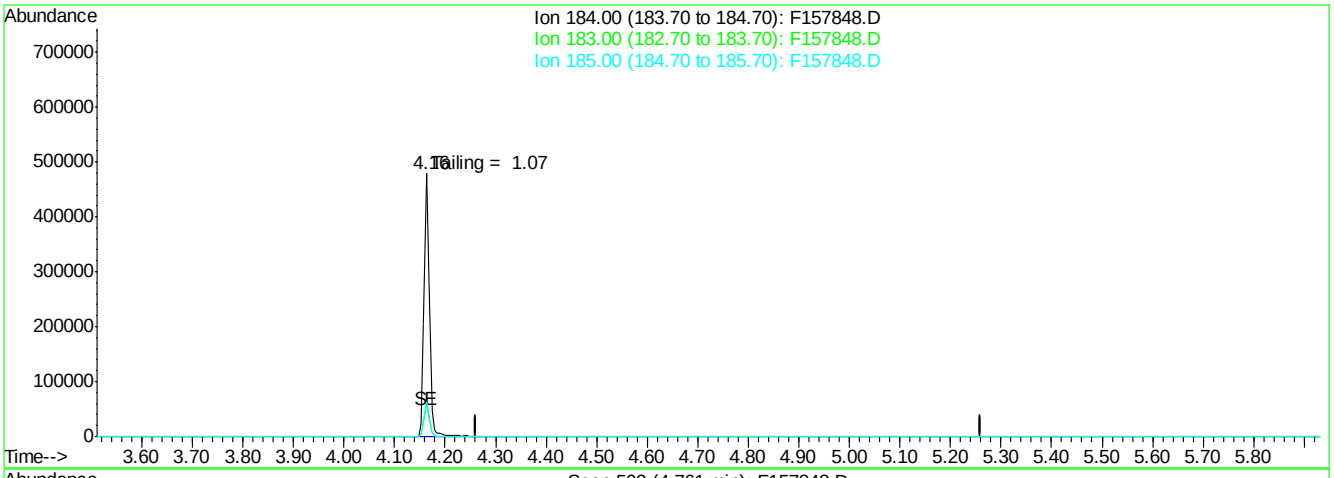
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

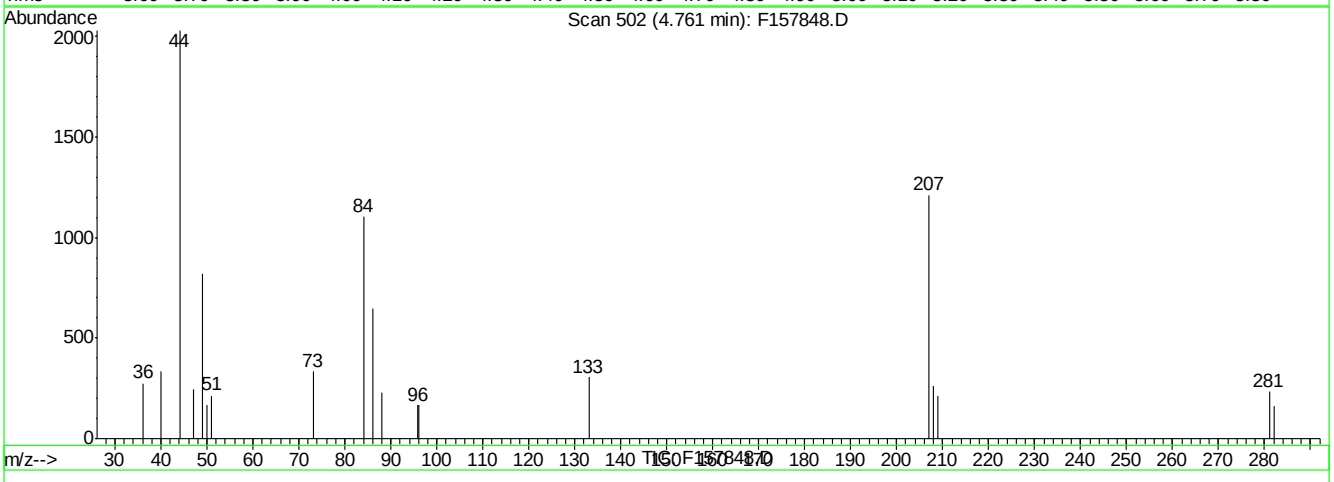
F157848.D DFTPPF.M Thu Jun 09 07:44:27 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157848.D Vial: 1
Acq On : 9 Jun 2016 7:36 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 7:42 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)

4.76min 0.00ppb

response 0

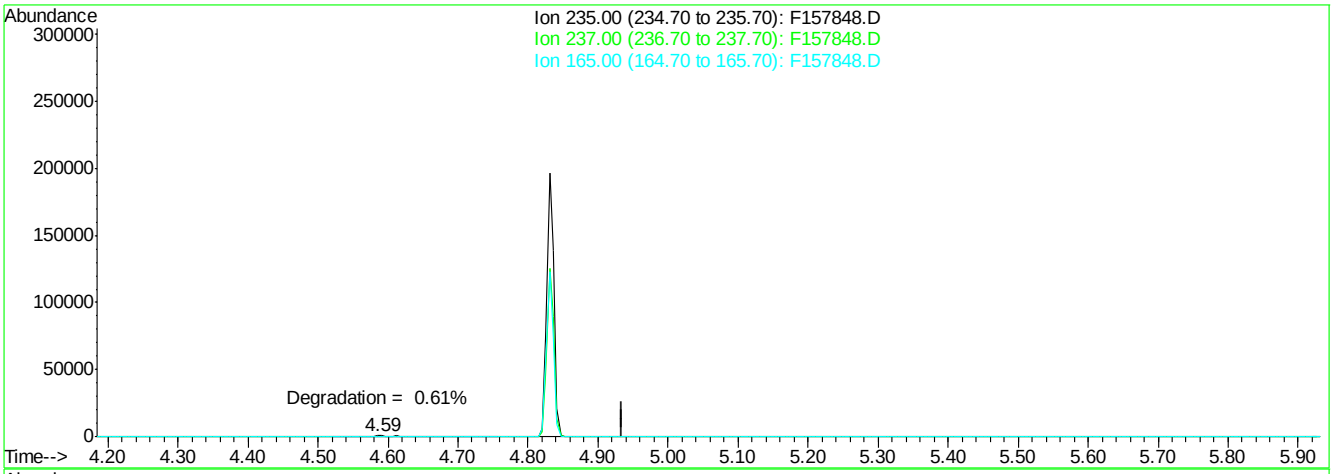
Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

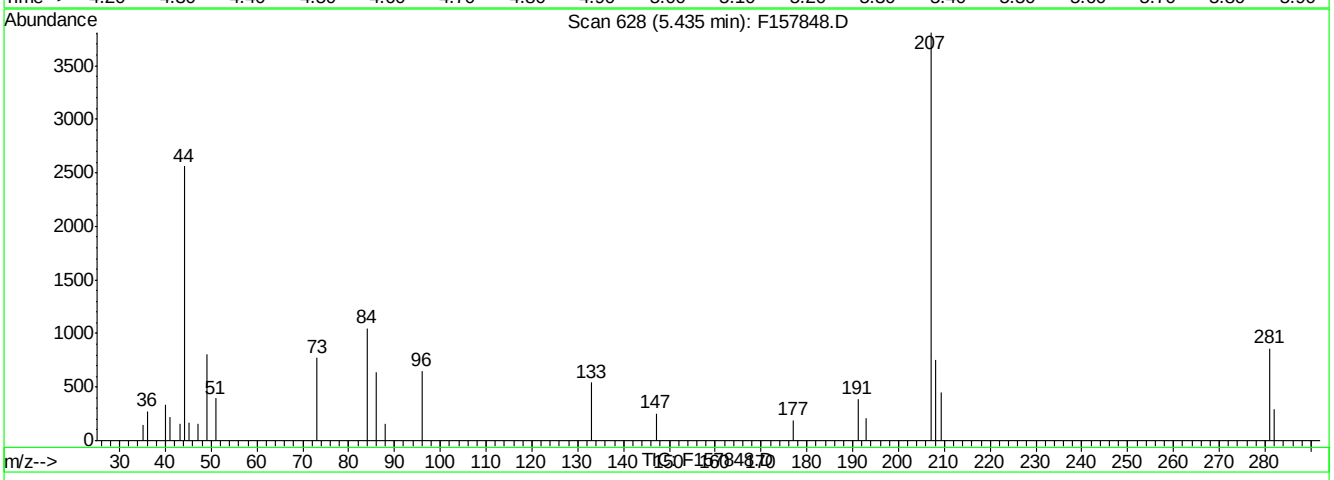
F157848.D DFTPPF.M Thu Jun 09 07:44:35 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157848.D Vial: 1
Acq On : 9 Jun 2016 7:36 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 7:42 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

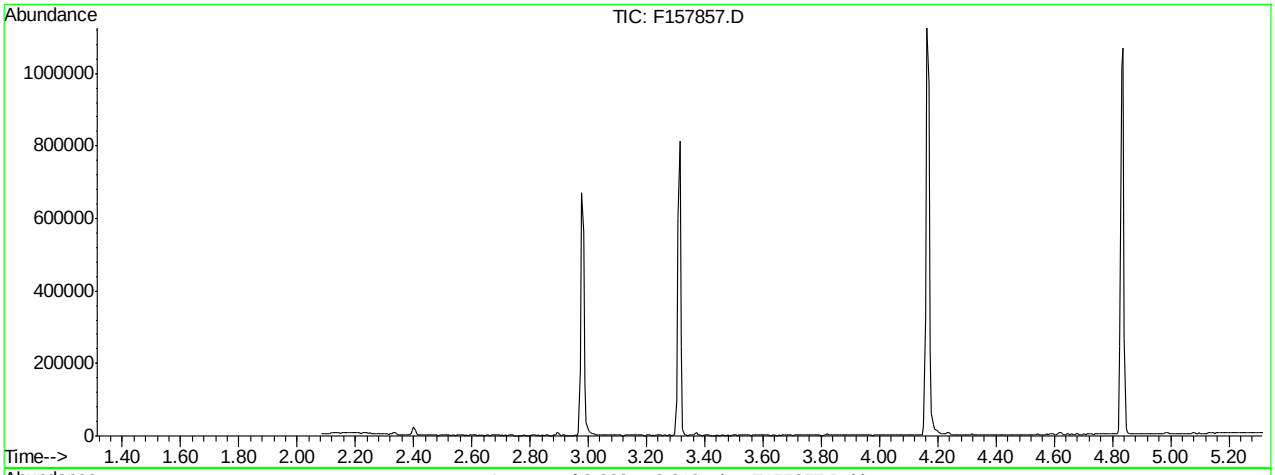
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

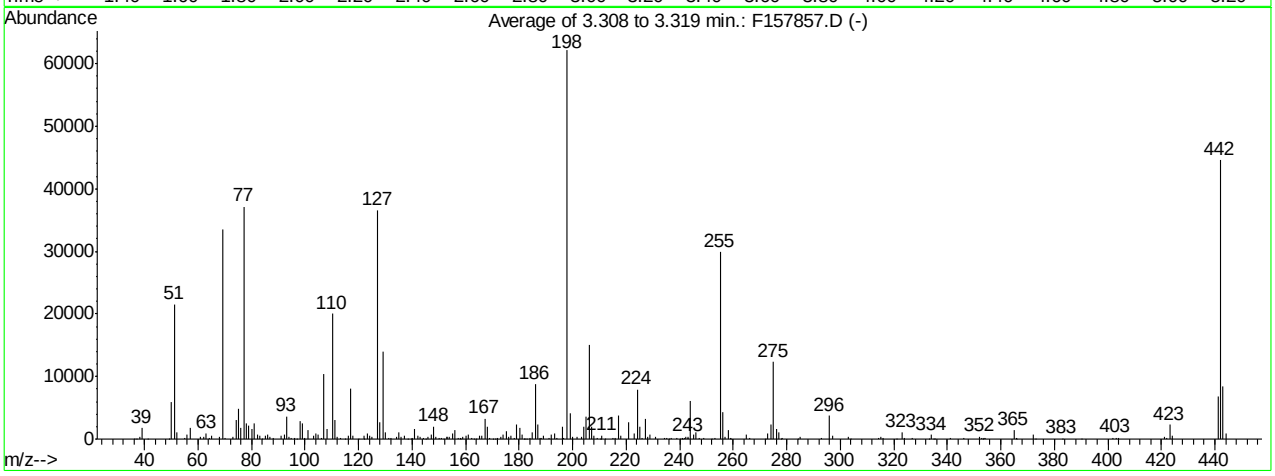
F157848.D DFTPPF.M Thu Jun 09 07:44:46 2016 RT1

SGS ACCUTEST JC22206

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6644\F157857.D Vial: 1
Acq On : 9 Jun 2016 2:45 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6645 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 230, 231, 232; Background Corrected with Scan 225

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.7	21547	PASS
68	69	0.00	2	1.1	360	PASS
69	198	0.00	100	53.9	33466	PASS
70	69	0.00	2	0.5	152	PASS
127	198	40	60	58.9	36600	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62112	PASS
199	198	5	9	6.6	4099	PASS
275	198	10	30	19.8	12311	PASS
365	198	1	100	2.4	1488	PASS
441	443	0.10	100	79.7	6727	PASS
442	198	40	100	71.8	44568	PASS
443	442	17	23	18.9	8439	PASS

F157857.D DFTPPF.M Fri Jun 10 13:36:06 2016 RT1

Average of 3.308 to 3.319 min.: F157857.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	70	57.10	1736	75.10	4931	86.05	811
37.00	72	61.05	334	76.15	1736	87.00	281
38.10	317	62.10	326	77.10	37172	88.00	140
39.10	1755	63.10	990	78.10	2585	91.10	587
41.10	55	64.10	148	79.05	2104	92.10	652
49.05	27	65.15	593	80.10	1707	93.10	3667
50.10	5855	68.10	360	81.05	2429	94.00	277
51.10	21547	69.10	33466	82.05	682	95.00	156
52.10	1157	70.00	152	83.00	560	96.00	224
55.10	135	73.10	299	83.95	85	97.00	73
56.05	699	74.10	3080	85.00	518	98.05	2805

Average of 3.308 to 3.319 min.: F157857.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.05	2440	112.05	291	125.00	415	138.20	51
100.00	217	113.15	150	127.10	36600	139.80	51
101.05	1352	115.00	52	128.10	2703	140.15	140
103.05	537	116.05	557	129.10	13911	141.00	1699
104.05	924	117.10	8072	130.05	1141	142.05	464
105.05	744	118.05	563	131.05	236	143.00	390
106.10	137	120.10	86	132.05	169	144.05	111
107.10	10473	122.00	592	134.05	285	145.10	64
108.05	1621	122.20	54	135.10	1018	146.10	314
110.10	20059	123.10	846	136.05	360	147.05	762
111.05	3010	124.05	547	137.10	578	148.05	1995

Average of 3.308 to 3.319 min.: F157857.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.00	429	158.10	159	169.10	254	180.10	1749
150.00	129	159.05	300	170.10	66	181.05	778
151.05	199	160.10	535	171.00	87	181.90	59
151.60	87	161.00	791	172.00	191	182.10	68
152.90	293	162.05	242	173.05	363	182.90	66
153.10	312	163.20	59	174.10	676	184.00	156
154.05	395	163.90	77	175.15	1303	185.00	1167
155.10	941	165.05	632	176.10	430	186.10	8789
156.10	1435	166.05	488	177.00	564	187.05	2413
157.05	247	167.10	3269	178.00	108	188.00	109
157.90	86	168.05	1988	179.00	2279	188.20	134

Average of 3.308 to 3.319 min.: F157857.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.00	520	203.10	424	215.05	107	229.05	662
191.05	202	204.10	2042	216.05	186	231.05	318
192.00	661	205.10	3536	217.05	3702	234.15	220
193.10	861	206.10	15144	218.00	500	235.10	148
194.05	177	207.10	1986	221.10	2721	236.10	80
196.10	1973	208.10	613	223.10	882	237.00	208
196.60	112	209.00	170	224.10	7971	239.05	124
198.00	62112	210.30	94	225.10	1977	240.00	55
199.00	4099	210.50	67	226.05	236	240.90	54
200.10	332	211.05	577	227.00	3242	241.10	108
201.55	339	211.90	93	228.00	443	241.90	109

Average of 3.308 to 3.319 min.: F157857.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
242.10	332	256.10	4349	276.05	1696	314.15	200
243.00	134	257.10	397	277.05	1122	315.00	412
243.20	373	258.05	1477	277.90	52	316.05	149
244.10	6036	258.90	57	278.10	125	321.00	67

245.05	738	259.10	121	284.00	59	323.10	1129
246.05	1033	265.05	676	284.95	293	324.15	221
247.10	190	266.05	157	293.05	210	327.05	251
248.95	185	272.00	83	296.00	3680	333.00	74
252.10	54	273.00	976	297.00	523	334.05	717
253.10	206	274.05	2303	303.05	449	334.90	70
255.10	29893	275.05	12311	304.00	50	335.10	50

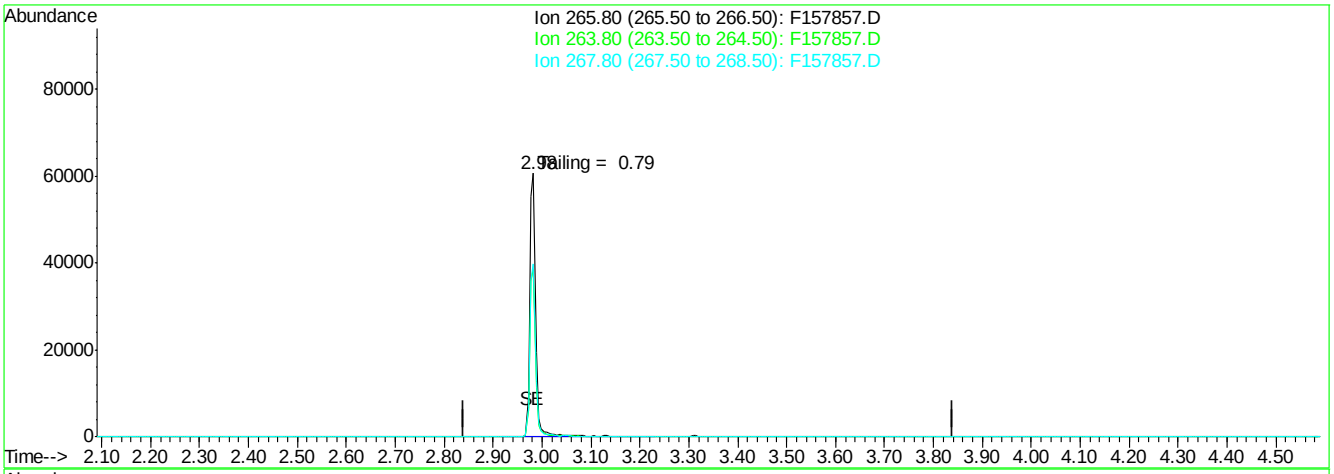
Average of 3.308 to 3.319 min.: F157857.D
dftpp
Modified:subtracted

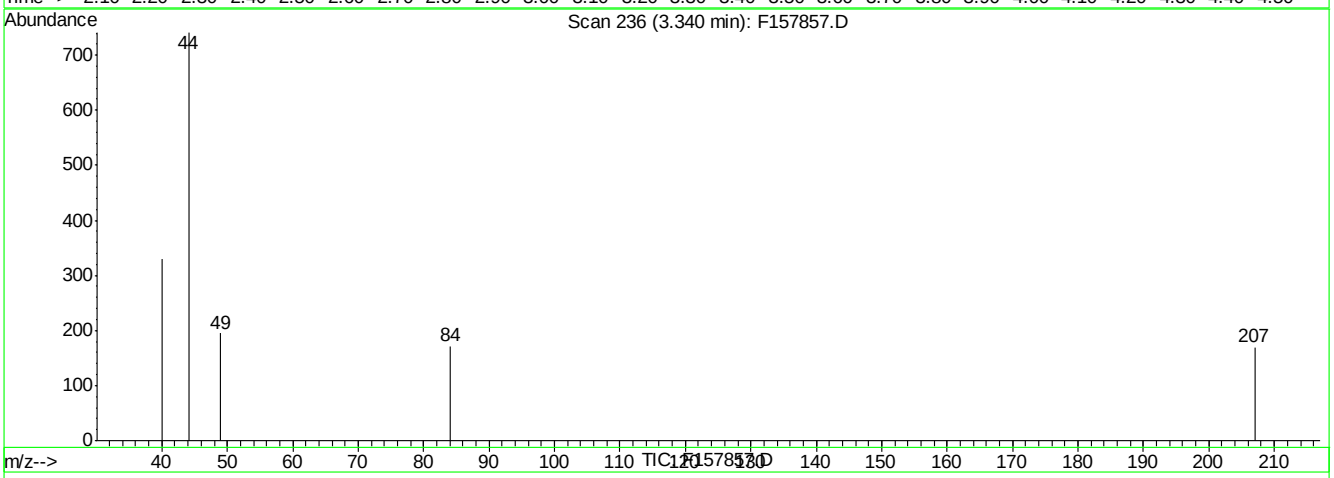
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
340.95	112	373.00	78	442.05	44568		
346.00	255	382.90	86	443.10	8439		
352.10	372	390.00	53	444.00	880		
353.00	153	402.05	227				
353.20	61	403.00	251				
353.90	160	404.10	133				
354.10	160	421.05	345				
365.00	1488	421.95	272				
365.80	51	423.10	2273				
366.05	256	424.00	463				
372.05	694	441.05	6727				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157857.D Vial: 1
Acq On : 9 Jun 2016 2:45 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 14:51 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)

3.34min 0.00ppb

response 0

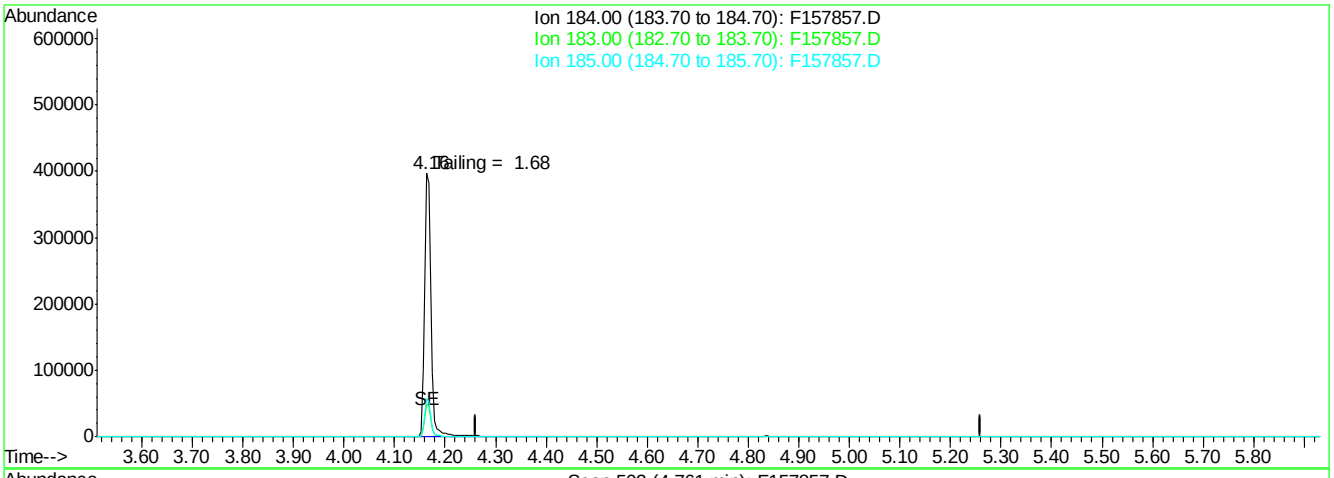
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

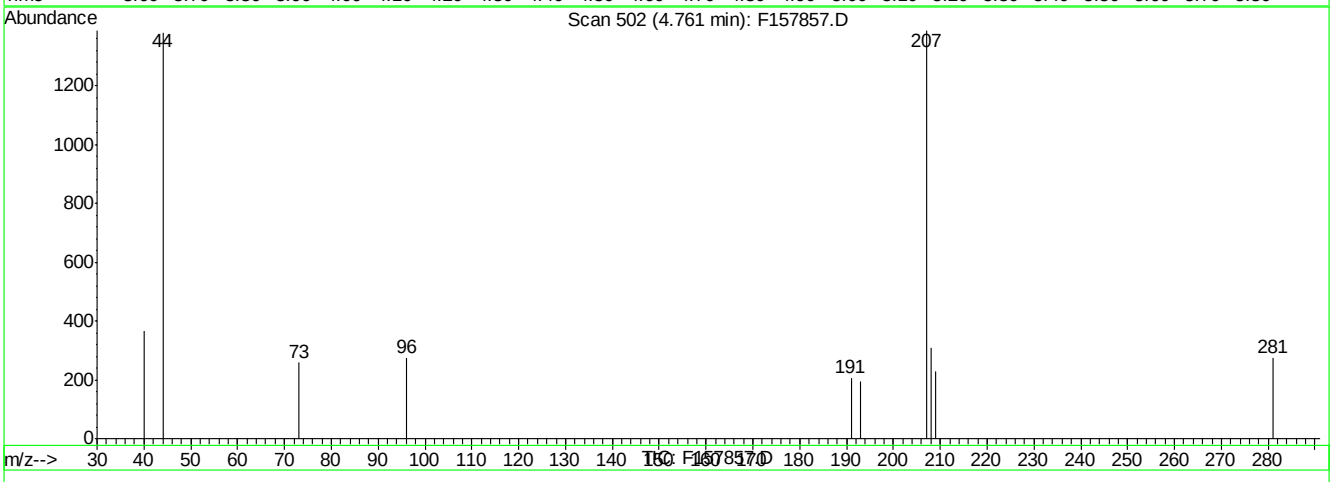
F157857.D DFTPPF.M Fri Jun 10 12:32:44 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157857.D Vial: 1
Acq On : 9 Jun 2016 2:45 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 14:51 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)

4.76min 0.00ppb

response 0

Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

F157857.D DFTPPF.M Fri Jun 10 12:32:49 2016 RT1

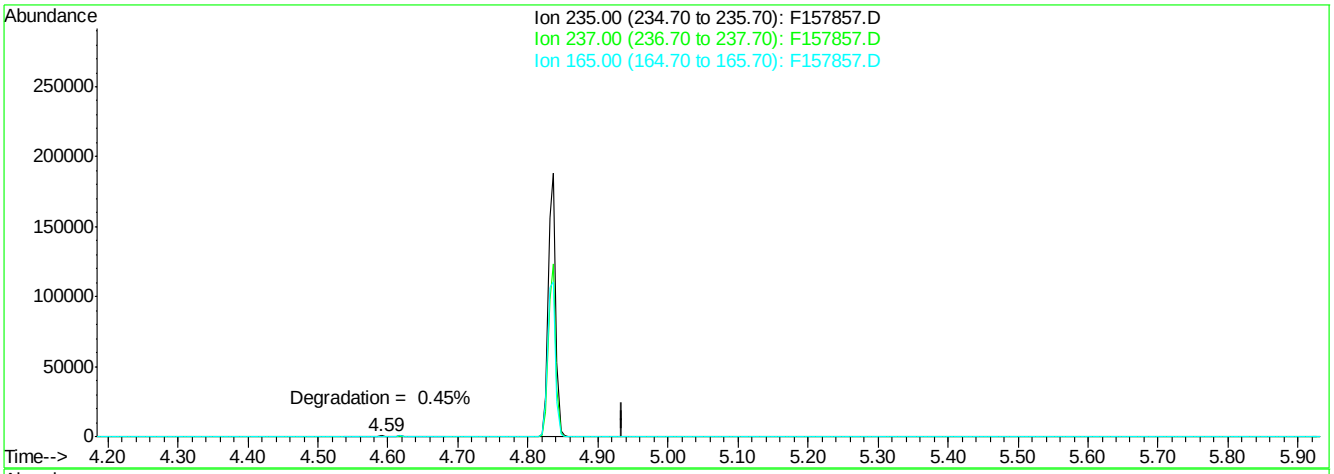
7.5.15.2

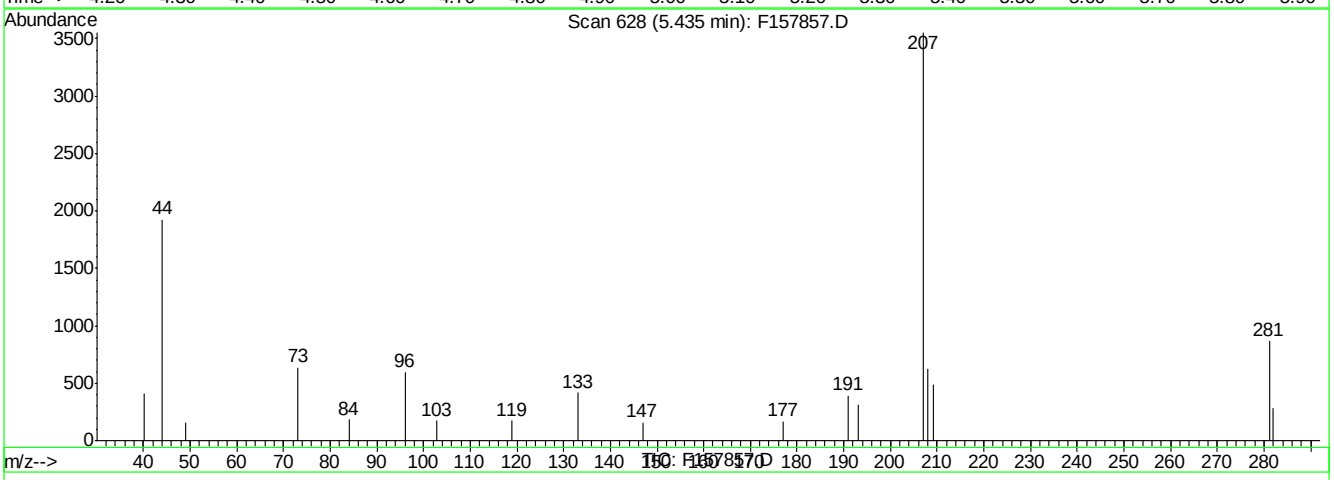
7

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157857.D Vial: 1
Acq On : 9 Jun 2016 2:45 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 14:51 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

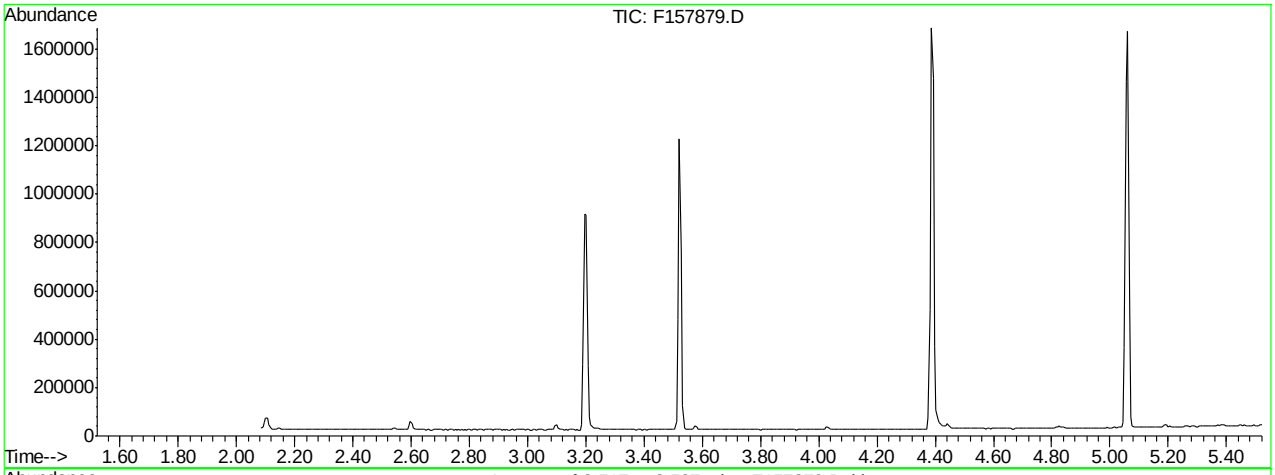
response 0

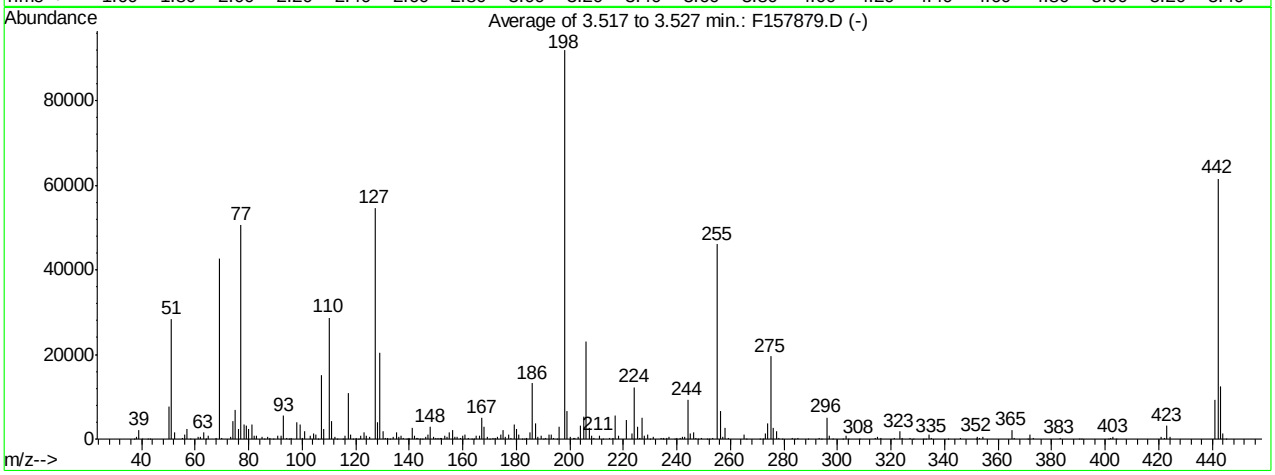
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F157857.D DFTPPF.M Fri Jun 10 12:32:55 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6646\F157879.D Vial: 1
Acq On : 10 Jun 2016 3:54 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6646 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 269, 270, 271; Background Corrected with Scan 264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	28359	PASS
68	69	0.00	2	0.5	230	PASS
69	198	0.00	100	46.4	42621	PASS
70	69	0.00	2	0.6	276	PASS
127	198	40	60	59.5	54685	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	91832	PASS
199	198	5	9	7.2	6577	PASS
275	198	10	30	21.3	19590	PASS
365	198	1	100	2.4	2162	PASS
441	443	0.10	100	74.2	9182	PASS
442	198	40	100	67.0	61503	PASS
443	442	17	23	20.1	12379	PASS

F157879.D DFTPPF.M Fri Jun 10 16:01:52 2016 RT1

Average of 3.517 to 3.527 min.: F157879.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	85	57.10	2335	74.10	4286	86.00	126
38.10	442	58.10	71	75.10	6844	87.05	611
39.10	2156	61.10	497	76.10	2379	87.95	224
40.05	66	62.05	476	77.10	50525	89.00	68
42.10	50	63.10	1470	78.10	3321	91.05	821
43.10	106	64.10	117	79.05	3073	92.10	822
50.10	7663	65.10	921	80.05	2513	93.10	5544
51.10	28359	68.00	230	81.10	3356	94.00	394
52.15	1619	69.10	42621	82.00	755	95.10	75
55.15	278	70.05	276	83.00	935	96.05	280
56.10	980	73.10	479	85.05	619	98.05	4051

Average of 3.517 to 3.527 min.: F157879.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.10	3480	112.10	530	124.00	713	136.15	637
100.00	326	113.00	137	125.05	657	137.10	914
101.10	1976	115.00	61	127.10	54685	137.85	153
103.05	774	116.05	889	128.10	3977	139.00	71
104.10	1247	117.05	10982	129.05	20316	139.90	58
105.05	1073	118.00	986	130.10	1759	140.05	210
106.10	83	119.10	106	131.05	326	141.00	2592
107.10	15185	120.05	189	132.05	192	142.05	847
108.05	2347	121.00	50	132.90	58	142.90	249
110.10	28658	122.05	913	134.05	603	143.10	311
111.10	4335	123.00	1514	135.05	1592	144.00	82

Average of 3.517 to 3.527 min.: F157879.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.00	65	155.05	1532	166.10	766	177.00	988
146.05	497	156.10	2152	167.10	4952	178.05	388
147.00	1191	157.15	439	168.05	2968	179.05	3536
148.00	2901	158.00	432	169.05	461	180.10	2415
149.00	564	159.00	379	170.00	79	181.00	1077
150.10	249	160.00	705	171.10	164	182.10	100
150.95	190	161.00	1140	172.05	405	183.00	61
151.40	149	162.05	284	173.05	605	183.95	384
151.90	224	163.10	50	174.05	999	185.05	1617
153.05	757	164.10	50	175.10	2001	186.10	13158
154.00	645	165.00	786	176.05	572	187.05	3782

Average of 3.517 to 3.527 min.: F157879.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.05	415	200.05	536	212.20	53	228.00	795
189.10	816	201.40	144	215.00	258	229.05	1025
190.00	54	201.70	323	216.00	334	230.00	84
190.95	399	203.00	574	217.00	5697	231.05	426
192.10	1104	204.10	3095	218.10	705	234.05	343
193.10	1120	205.10	5285	221.10	4640	234.90	50
193.95	285	206.10	22947	223.05	1264	235.10	347
195.00	103	207.10	2695	224.10	12213	236.05	204
196.10	3027	208.10	860	225.10	2832	237.05	458
198.00	91832	209.00	326	226.20	391	239.00	131
199.00	6577	211.05	916	227.10	4930	240.05	170

Average of 3.517 to 3.527 min.: F157879.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.00	266	253.20	211	274.05	3613	293.95	115
242.05	635	255.10	46021	275.10	19590	296.05	5062
243.05	578	256.10	6522	276.10	2571	296.95	804
244.10	9269	257.00	593	277.05	1760	298.00	54

245.10	1301	258.05	2577	278.00	273	302.00	137
246.05	1698	259.00	397	279.10	53	303.05	707
246.95	275	265.05	972	283.05	237	304.00	114
248.00	69	265.95	131	284.00	137	308.10	64
248.95	298	271.10	58	285.15	276	314.05	313
251.20	76	272.10	129	289.10	56	315.00	572
251.90	65	273.05	1438	292.95	383	316.10	364

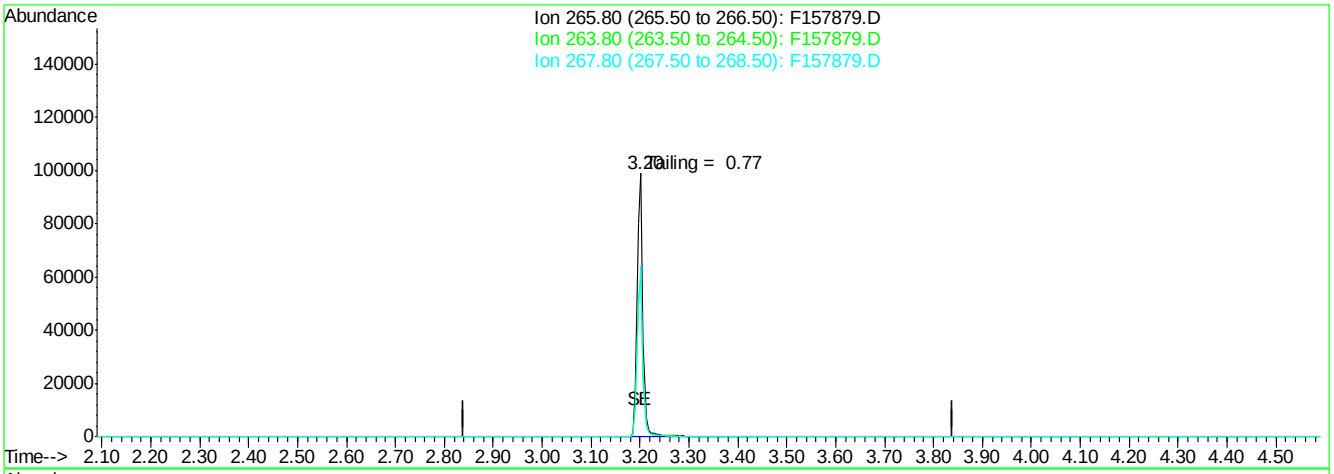
Average of 3.517 to 3.527 min.: F157879.D
dftpp
Modified:subtracted

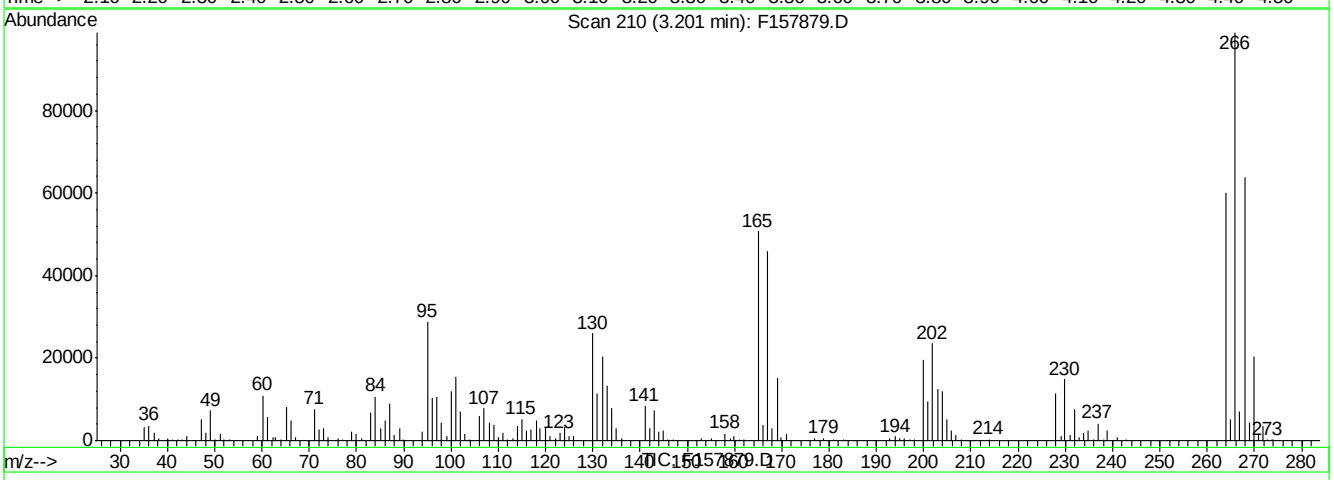
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
321.00	214	351.80	58	391.20	51	443.10	12379
323.10	1775	352.05	544	401.00	50	444.00	1295
324.10	292	353.05	345	401.90	320	445.00	57
326.95	259	354.10	606	403.00	448		
328.10	114	364.95	2162	404.00	78		
332.10	108	366.05	305	421.05	451		
333.00	62	370.85	135	422.05	338		
334.10	981	372.00	950	423.05	3097		
335.10	296	373.00	180	424.00	632		
341.20	80	382.95	227	441.10	9182		
346.00	319	390.10	59	442.10	61503		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6646\F157879.D Vial: 1
Acq On : 10 Jun 2016 3:54 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6646 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 16:00 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 : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

3.20min 43.27ppb

response 80430

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	60.58
267.80	64.80	64.60
0.00	0.00	0.00

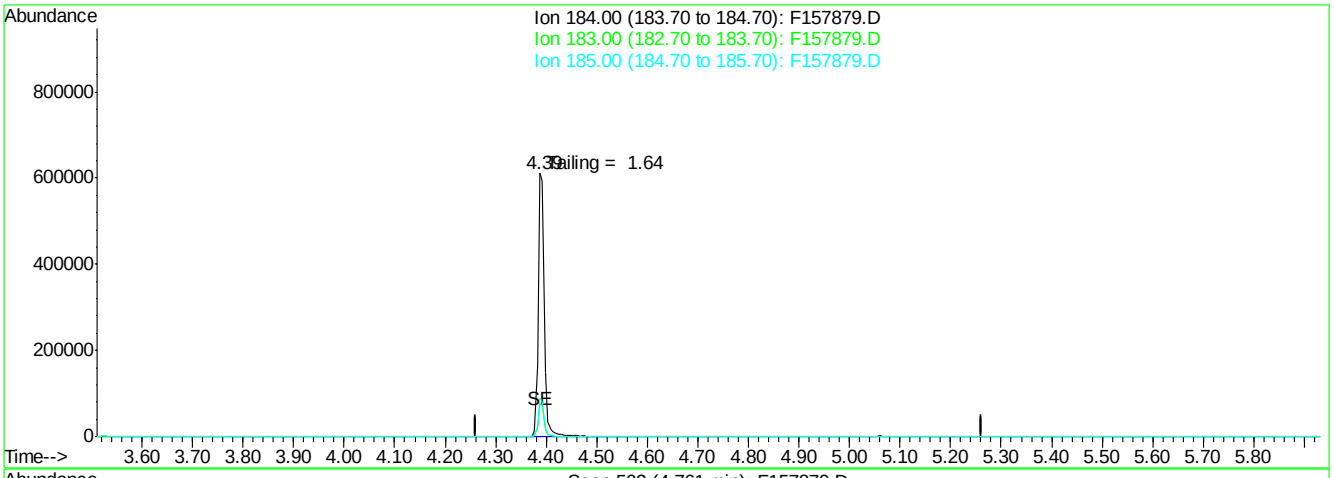
F157879.D DFTPPF.M Fri Jun 10 16:01:33 2016 RT1

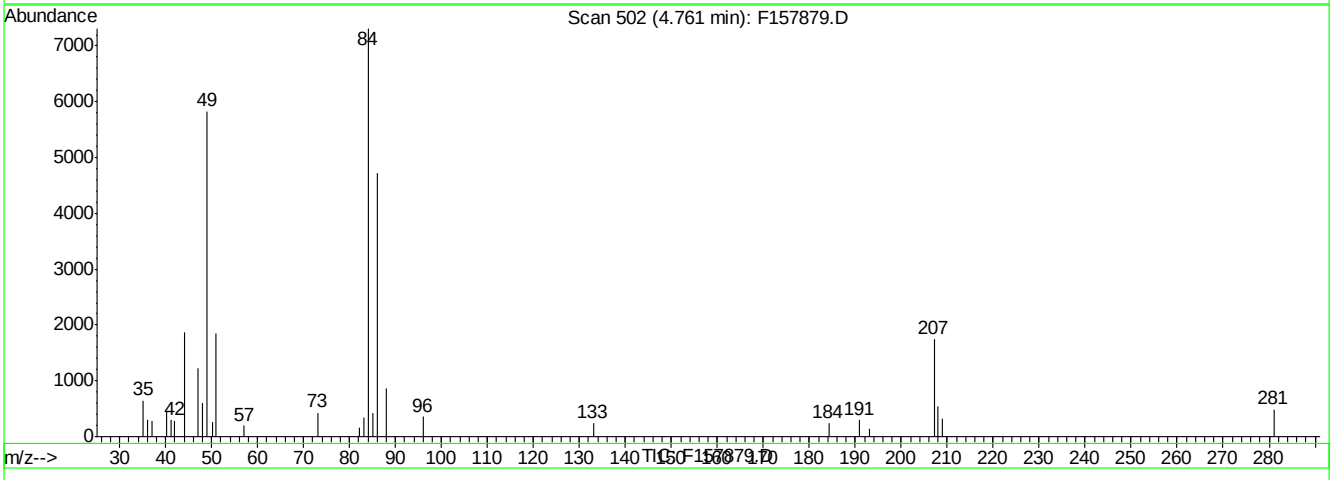
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6646\F157879.D Vial: 1
Acq On : 10 Jun 2016 3:54 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6646 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 16:00 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 : Fri Apr 08 15:27:53 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.76min 0.00ppb

response 0

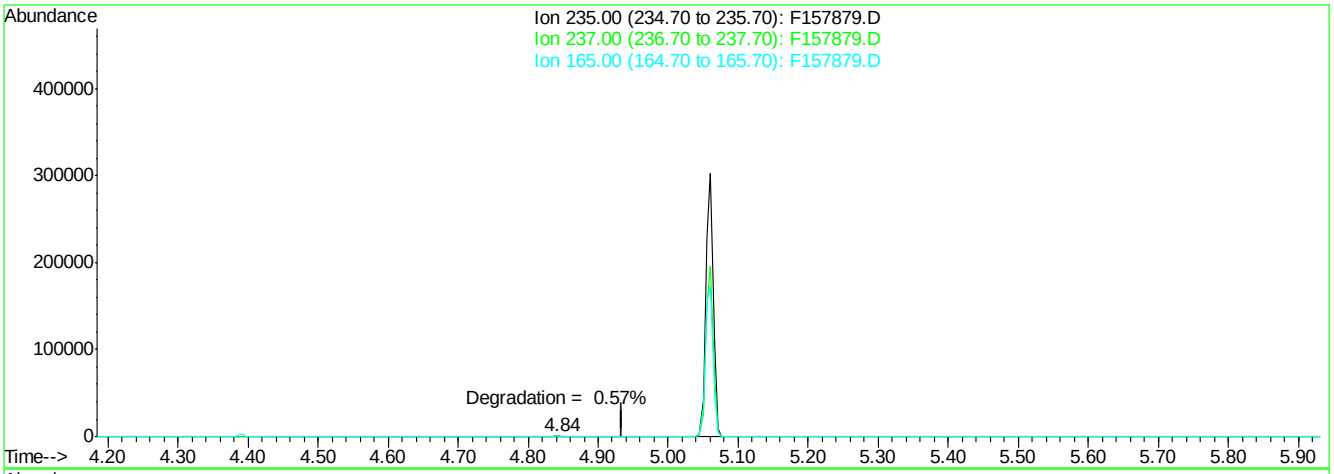
Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

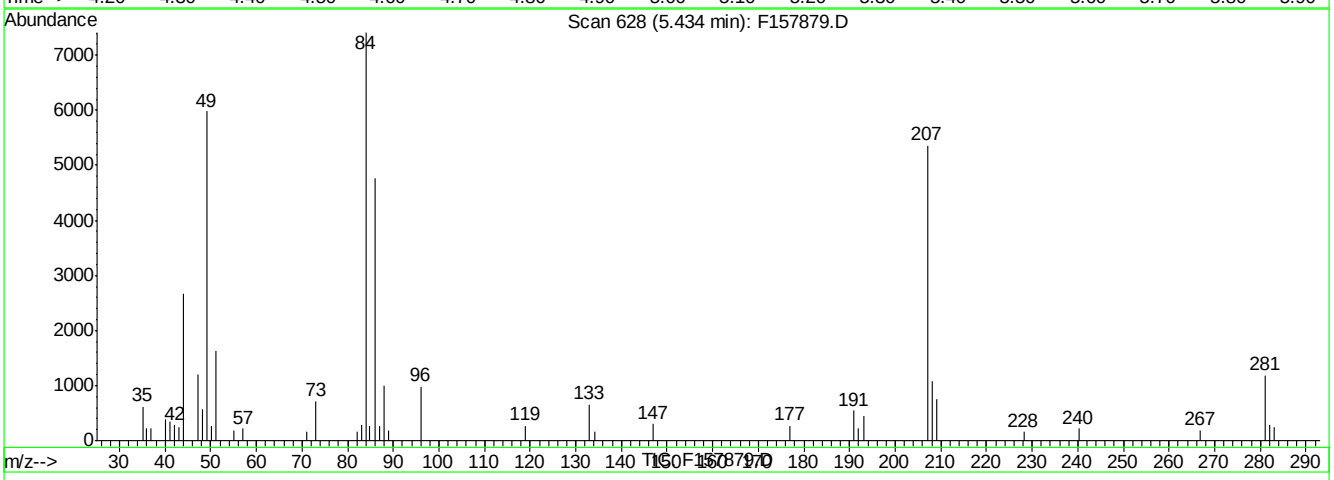
F157879.D DFTPPF.M Fri Jun 10 16:01:38 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6646\F157879.D Vial: 1
Acq On : 10 Jun 2016 3:54 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6646 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 16:00 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 : Fri Apr 08 15:27:53 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 0.00ppb

response 0

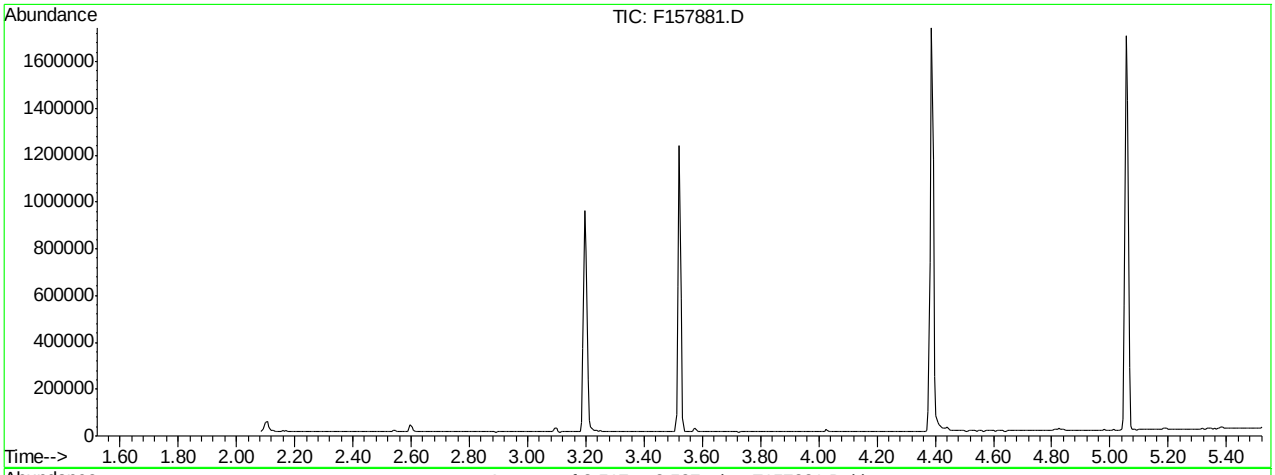
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

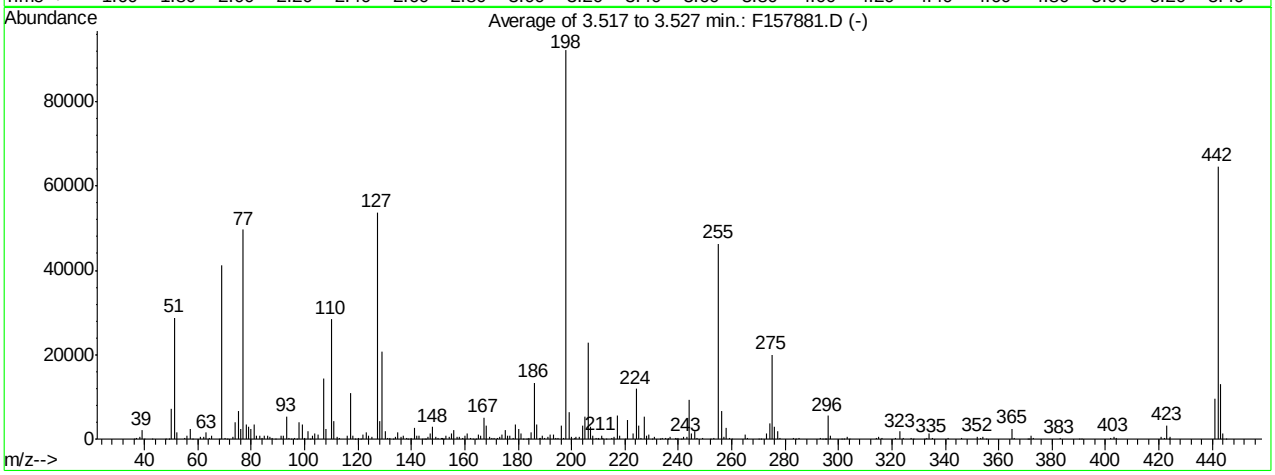
F157879.D DFTPPF.M Fri Jun 10 16:01:45 2016 RT1

SGS ACCUTEST JC22206

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6647\F157881.D Vial: 1
Acq On : 10 Jun 2016 4:41 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6647 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 269, 270, 271; Background Corrected with Scan 264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	28800	PASS
68	69	0.00	2	0.3	120	PASS
69	198	0.00	100	44.7	41216	PASS
70	69	0.00	2	0.7	280	PASS
127	198	40	60	58.3	53706	PASS
197	198	0.00	1	0.4	383	PASS
198	198	100	100	100.0	92128	PASS
199	198	5	9	6.9	6324	PASS
275	198	10	30	21.8	20050	PASS
365	198	1	100	2.7	2444	PASS
441	443	0.10	100	74.8	9689	PASS
442	198	40	100	70.2	64632	PASS
443	442	17	23	20.1	12959	PASS

F157881.D DFTPPF.M Sun Jun 12 12:49:47 2016 RT1

Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	37	55.10	241	70.05	280	82.00	930
37.10	317	56.10	889	71.00	51	83.10	834
38.10	558	57.10	2322	73.10	473	84.00	218
39.10	2196	58.05	127	74.10	3957	85.00	814
40.00	70	61.00	450	75.10	6721	86.00	914
43.05	4	62.10	515	76.15	2409	87.10	466
48.10	52	63.10	1486	77.10	49650	88.00	149
49.10	64	64.15	167	78.10	3472	89.20	61
50.05	7259	65.10	757	79.10	2996	91.10	746
51.10	28800	68.10	120	80.05	2345	92.05	895
52.10	1510	69.00	41216	81.10	3383	93.10	5431

Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	370	105.05	1121	120.00	197	132.05	203
95.10	74	107.10	14390	120.90	72	133.00	78
96.05	358	108.10	2417	122.05	1116	134.05	633
97.10	93	110.10	28560	123.10	1518	135.05	1637
98.10	3882	111.05	4332	124.05	698	136.00	637
99.10	3533	112.05	491	125.05	642	137.05	902
100.05	275	113.10	170	127.10	53706	138.10	149
101.10	1893	116.10	769	128.10	4340	138.80	64
102.10	57	117.10	10811	129.05	20610	140.05	229
103.10	745	118.05	924	130.05	1817	141.00	2650
104.00	1254	119.10	121	131.00	407	142.10	833

Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
143.00	712	151.85	178	162.05	379	173.05	537
144.20	91	152.10	76	163.00	62	174.05	963
145.00	130	153.00	827	164.10	131	175.10	2054
145.20	63	154.00	570	165.05	968	176.05	732
146.00	498	155.05	1299	166.10	740	177.00	894
147.00	1302	156.05	2231	167.10	5168	178.10	325
148.00	2819	157.10	471	168.05	3234	179.00	3384
149.00	633	158.00	537	169.10	497	180.05	2442
150.05	204	159.10	363	170.00	146	181.10	1211
151.10	282	160.00	723	171.10	187	182.00	73
151.60	73	161.05	1222	172.05	394	183.20	52

Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
184.00	206	194.10	198	205.10	5379	216.00	580
185.00	1543	194.95	193	206.10	22903	217.00	5501
186.10	13306	196.05	3235	207.05	3015	218.05	759
187.00	3515	196.80	383	208.05	808	220.10	66
188.00	190	198.00	92128	209.05	316	221.10	4656
188.20	188	199.00	6324	209.90	60	223.05	1266
189.05	780	200.10	629	210.15	392	224.10	11955
190.00	149	201.20	154	211.10	840	225.10	3230
191.00	442	201.60	444	211.90	158	226.05	230
192.00	1023	203.05	623	213.10	54	227.05	5235
193.10	1159	204.10	3253	215.05	198	228.05	831

Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.05	1094	240.00	174	255.05	46253	274.10	3845
230.05	133	241.00	135	256.05	6665	275.10	20050
231.00	412	242.05	608	257.10	578	276.10	2807
233.10	51	243.15	642	258.05	2732	277.00	1773

234.00	321	244.10	9331	259.05	393	278.05	298
235.05	366	245.05	1326	260.00	59	283.05	216
235.90	127	246.05	1749	265.00	992	284.00	139
236.15	105	247.00	392	266.05	154	285.00	231
237.05	454	249.05	313	269.90	64	293.05	362
238.95	145	252.20	89	271.10	69	294.20	85
239.15	135	253.15	206	273.05	1273	294.90	74

Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
295.10	62	323.05	1795	353.05	390	391.00	78
296.05	5498	324.05	229	354.05	505	402.05	362
297.00	802	327.00	254	355.10	62	403.05	547
301.00	54	327.90	116	365.00	2444	404.00	212
301.90	55	332.10	66	366.00	358	421.00	492
303.05	534	332.95	163	370.90	61	421.95	356
303.95	123	334.05	1214	371.20	61	423.05	3302
314.05	206	335.10	360	372.10	871	423.90	91
315.05	594	341.05	315	373.05	293	424.05	601
316.05	346	345.95	373	383.00	227	441.10	9689
321.10	216	352.05	585	390.10	52	442.10	64632

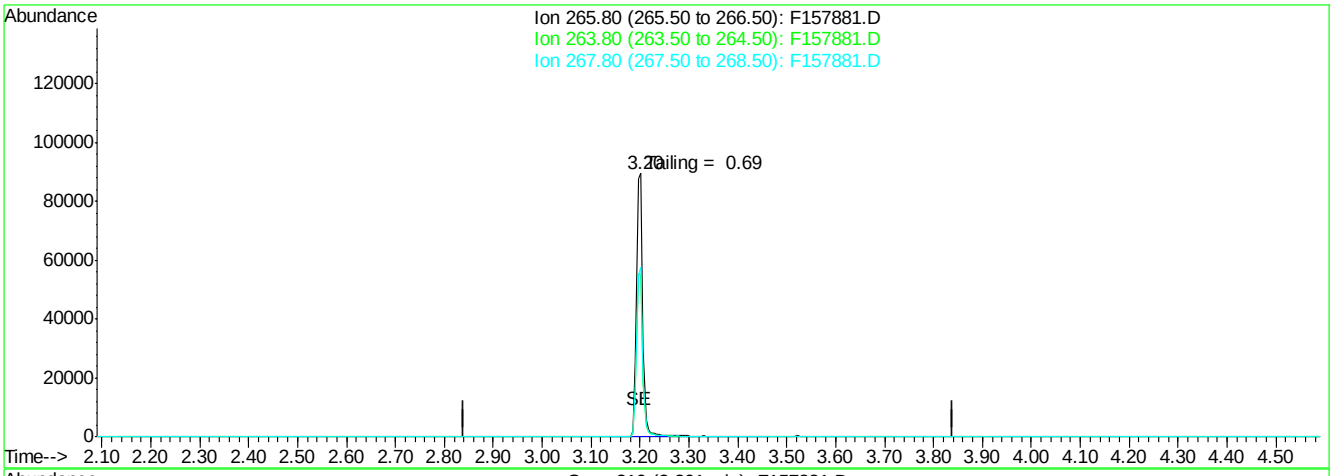
Average of 3.517 to 3.527 min.: F157881.D
dftpp
Modified:subtracted

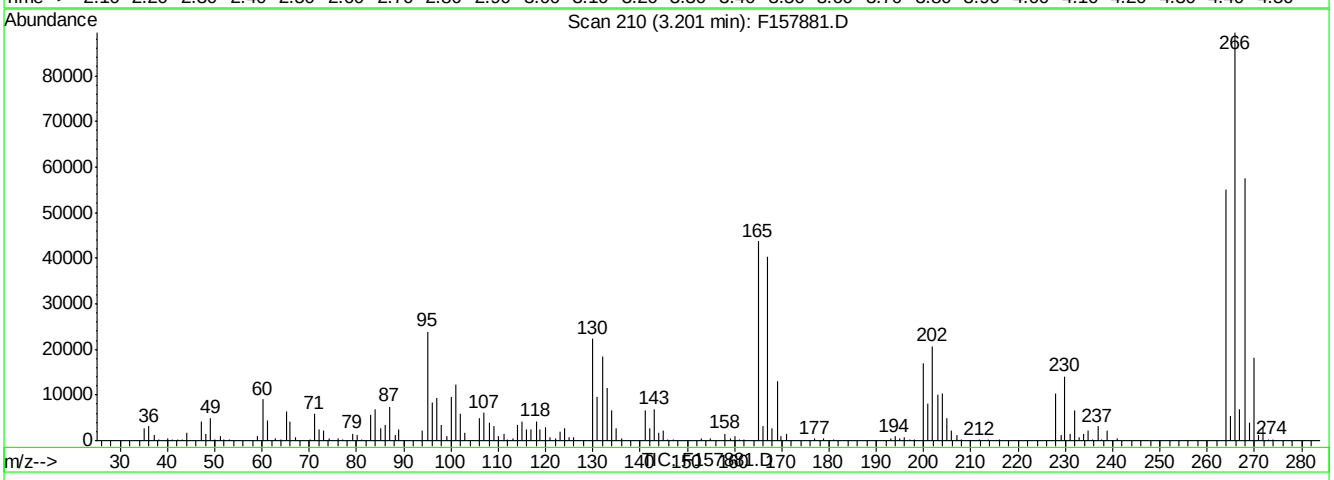
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.10	12959						
444.05	1241						
445.00	54						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157881.D Vial: 1
Acq On : 10 Jun 2016 4:41 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 16:47 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)

3.20min 42.89ppb

response 79738

Ion	Exp%	Act%
265.80	100	100
263.80	63.00	61.52
267.80	64.80	64.29
0.00	0.00	0.00

F157881.D DFTPPF.M Sun Jun 12 11:05:39 2016 RT1

7.5.17.1

7

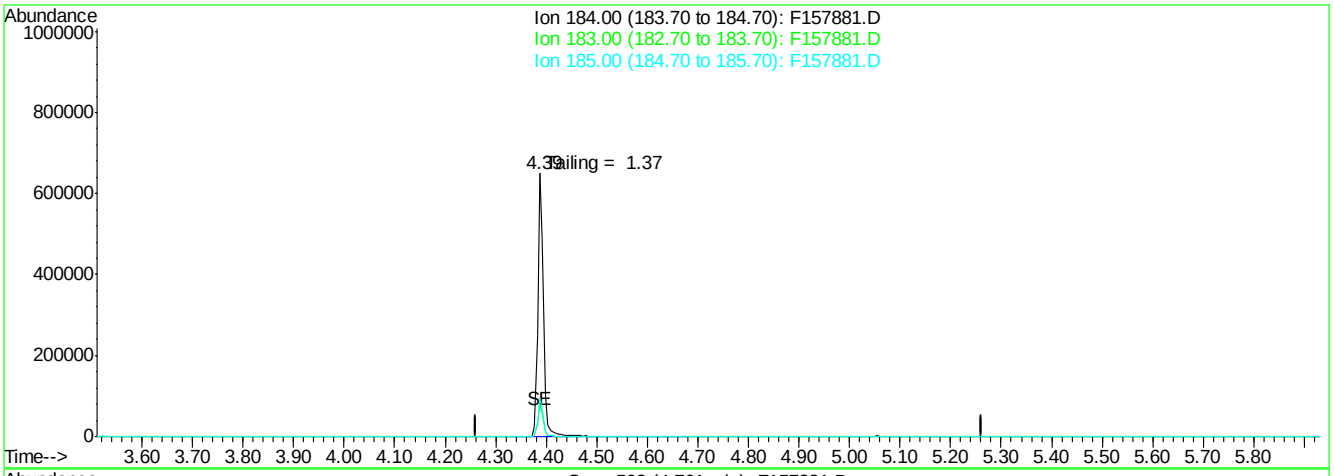
SGS ACCUTEST JC22206

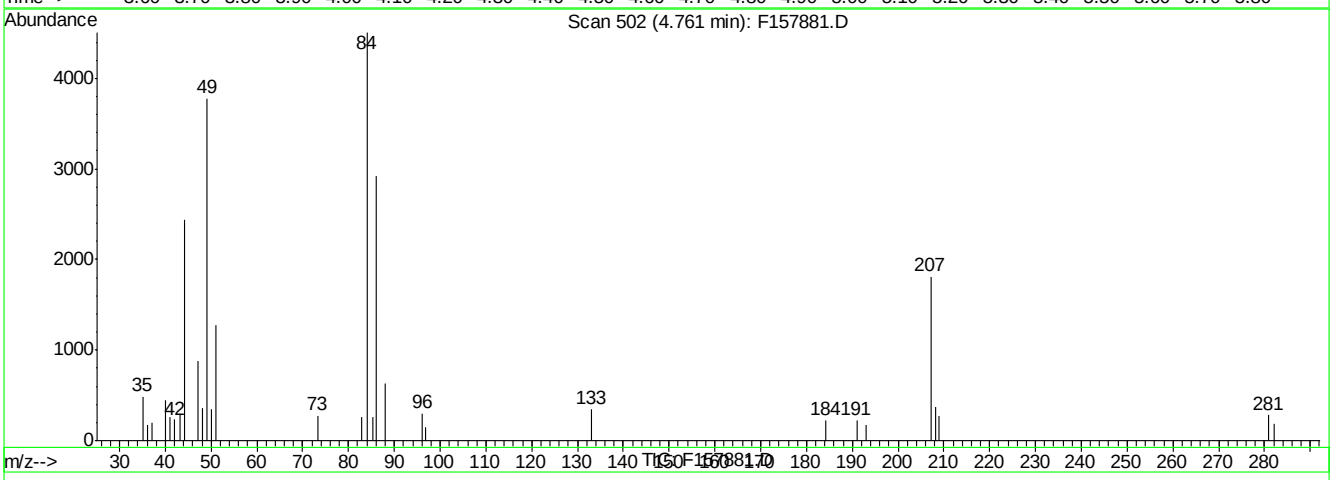
F157881.D edits: Pentachlorophenol

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157881.D Vial: 1
Acq On : 10 Jun 2016 4:41 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 16:47 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)

4.76min 0.00ppb

response 0

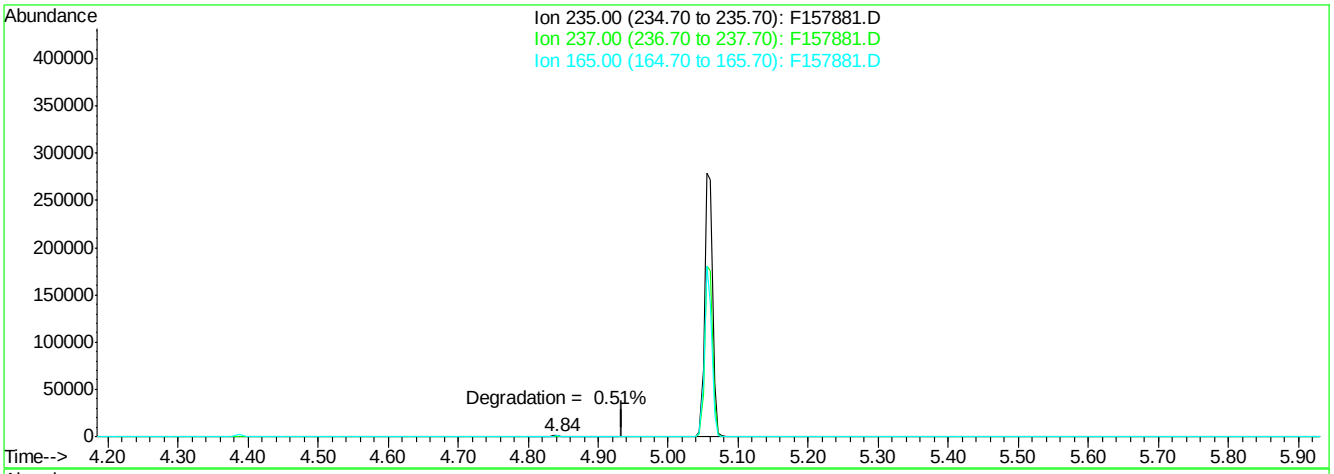
Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

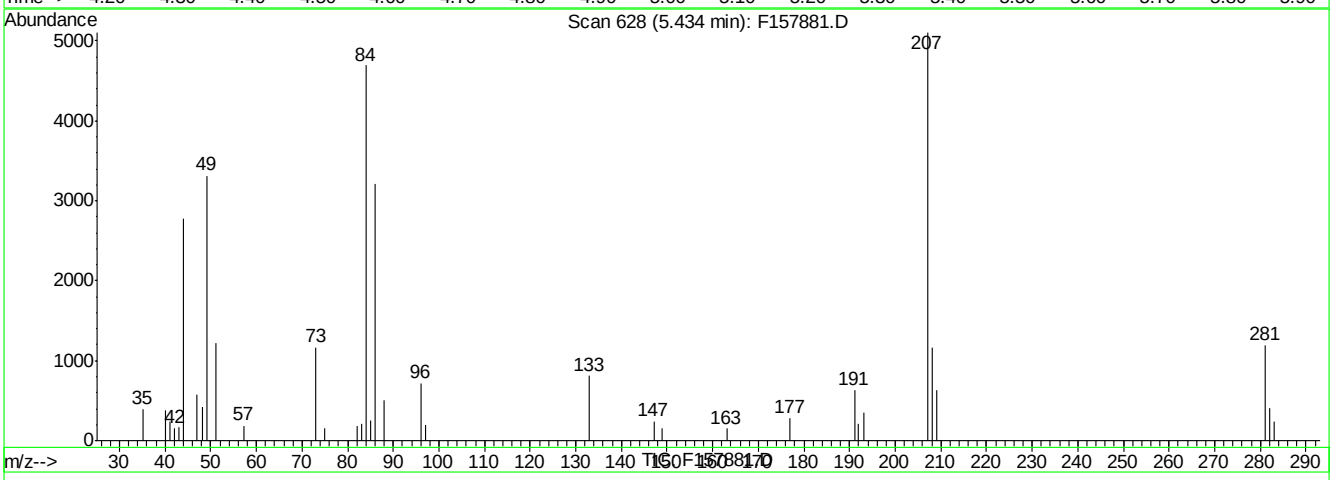
F157881.D DFTPPF.M Sun Jun 12 11:05:46 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157881.D Vial: 1
Acq On : 10 Jun 2016 4:41 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 16:47 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

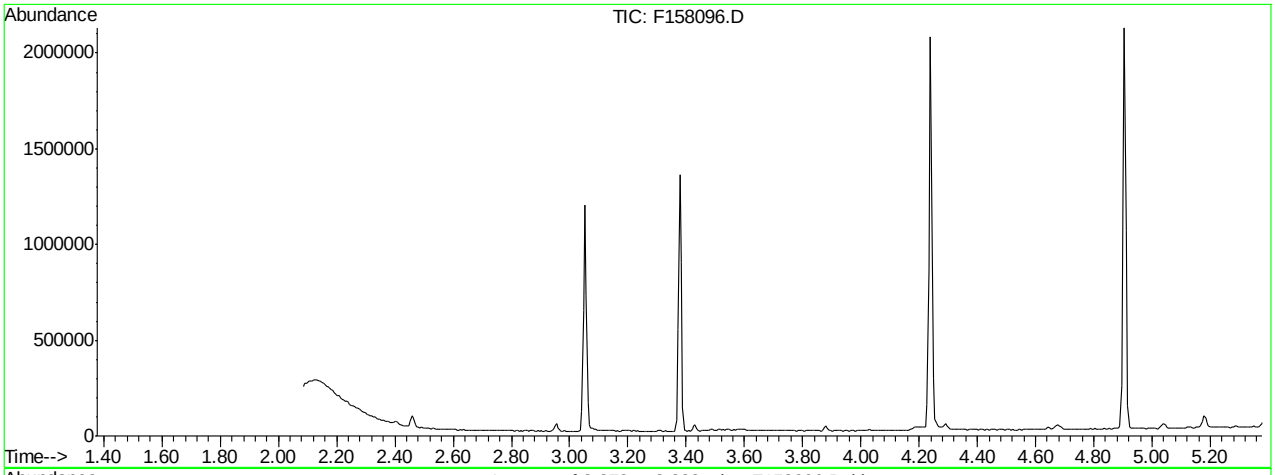
response 0

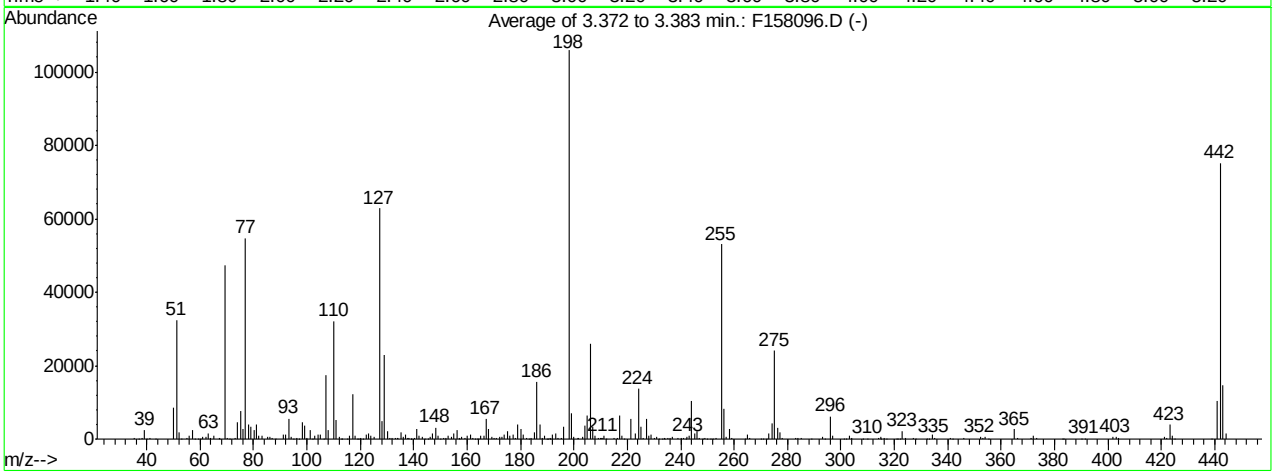
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F157881.D DFTPPF.M Sun Jun 12 11:05:54 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6657\F158096.D Vial: 1
Acq On : 20 Jun 2016 7:32 am Operator: brittanp
Sample : DFTPP Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 242, 243, 244; Background Corrected with Scan 237

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.6	32415	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.8	47464	PASS
70	69	0.00	2	0.7	319	PASS
127	198	40	60	59.3	62792	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	105856	PASS
199	198	5	9	6.8	7174	PASS
275	198	10	30	22.7	23984	PASS
365	198	1	100	2.6	2703	PASS
441	443	0.10	100	70.8	10470	PASS
442	198	40	100	71.0	75141	PASS
443	442	17	23	19.7	14798	PASS

F158096.D DFTPPF.M Mon Jun 20 11:26:33 2016 RT1

Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	409	55.05	225	67.05	166	79.10	3415
37.00	110	56.05	1035	67.30	75	80.05	2593
38.20	411	57.10	2463	69.10	47464	81.10	3840
39.10	2463	58.10	140	70.10	319	82.00	939
40.05	84	59.10	58	71.10	44	83.10	892
41.10	233	60.20	67	73.10	348	85.05	633
43.10	96	61.05	527	74.10	4619	86.00	515
50.05	8603	62.05	559	75.10	7505	87.00	454
51.10	32415	63.15	1594	76.15	2642	88.00	75
52.10	1825	64.05	172	77.05	54798	91.05	1099
53.05	118	65.10	810	78.10	3861	92.05	1145

Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	5654	104.05	1337	116.10	884	127.10	62792
94.05	514	105.10	1332	117.05	12240	128.05	4782
95.05	105	106.10	121	118.05	1021	129.05	22916
96.10	177	107.10	17394	119.00	99	130.05	2051
97.05	151	108.10	2597	119.40	51	131.10	427
98.10	4630	110.10	32096	120.10	247	132.05	276
99.05	3735	111.05	5111	121.10	58	133.15	190
100.00	410	112.05	563	122.05	1186	133.90	175
101.05	2358	112.80	58	123.05	1602	134.05	464
102.00	159	112.95	133	124.05	852	135.05	1861
103.10	921	115.10	131	125.05	738	136.05	725

Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.10	1171	146.10	553	157.00	113	166.10	829
137.75	164	147.10	1673	157.15	351	167.05	5440
138.20	182	148.05	3107	157.95	534	168.05	2821
138.90	64	149.05	787	159.00	398	169.05	571
139.10	56	150.00	97	160.10	833	170.00	210
140.10	316	151.10	460	161.05	1260	171.05	279
141.05	2801	151.95	298	162.00	349	172.00	581
142.05	930	153.00	968	163.00	70	173.05	660
143.05	737	154.05	723	163.90	59	174.05	1350
144.15	158	155.10	1427	164.10	56	175.10	2020
145.10	76	156.10	2590	165.10	1066	176.10	880

Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.05	1081	188.10	454	198.00	105856	209.05	351
178.05	354	189.05	819	199.00	7174	210.05	334
179.05	3935	189.80	69	200.05	470	210.40	236
180.05	2679	190.25	111	201.40	194	211.00	199
181.10	1354	190.90	101	201.60	256	211.15	851
182.10	271	191.05	384	203.05	752	212.00	143
183.00	96	192.05	1244	204.10	3635	215.05	298
184.05	393	193.10	1388	205.10	6304	216.05	356
185.05	1860	194.15	322	206.10	25973	217.00	6436
186.10	15542	195.10	236	207.05	3239	218.00	825
187.10	4130	196.05	3329	208.05	824	218.90	60

Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.10	5517	233.00	108	243.10	821	255.10	53074
223.05	1492	233.90	82	244.10	10434	256.10	8383
224.10	13644	234.05	282	245.10	1442	257.05	636
225.10	3401	235.05	391	246.05	2057	258.10	2717

226.10	266	236.00	296	247.05	389	259.10	340
227.05	5424	237.00	523	248.20	61	264.10	51
228.05	877	239.05	210	249.05	370	265.00	1219
229.05	1130	240.05	189	250.00	67	265.95	272
230.05	165	241.05	262	251.05	140	270.00	51
231.10	499	241.90	73	252.10	64	271.05	160
232.00	62	242.10	673	253.10	267	272.05	137

Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
273.05	1668	294.10	57	315.10	655	333.10	159
274.05	4234	296.05	6206	316.10	402	334.10	1317
275.10	23984	297.05	853	317.10	57	335.05	421
276.10	3201	301.20	60	321.00	127	341.05	304
277.05	1882	301.90	92	321.20	69	342.00	69
278.05	327	303.10	809	322.20	77	346.00	377
283.10	185	304.10	214	323.10	2148	352.10	583
284.05	202	308.20	58	324.10	407	353.05	380
285.05	346	310.10	76	327.00	350	354.10	666
289.10	54	314.05	274	328.10	156	355.20	69
293.05	477	314.90	88	332.10	70	365.05	2703

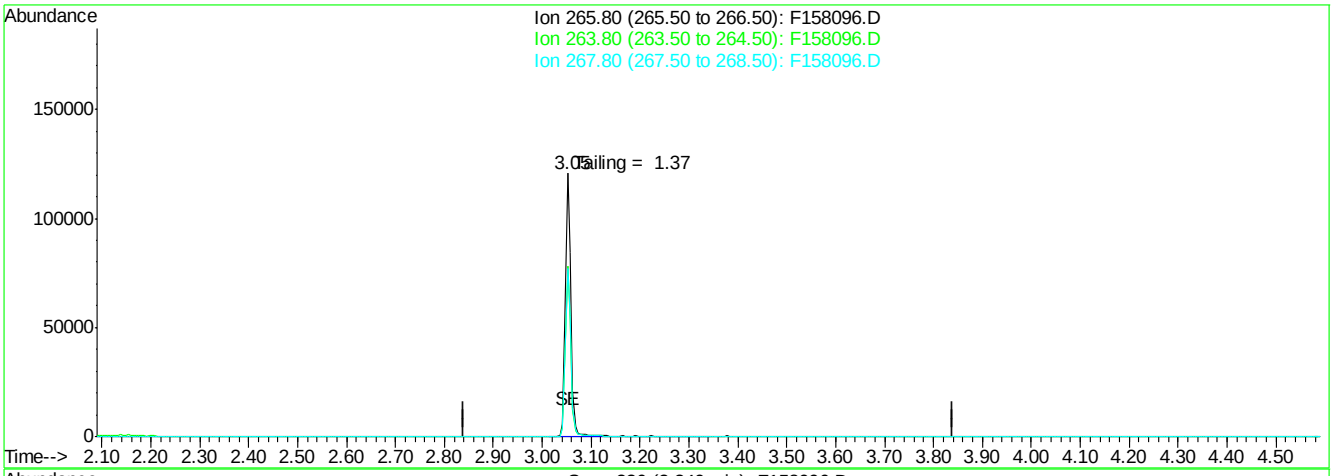
Average of 3.372 to 3.383 min.: F158096.D
DFTPP
Modified:subtracted

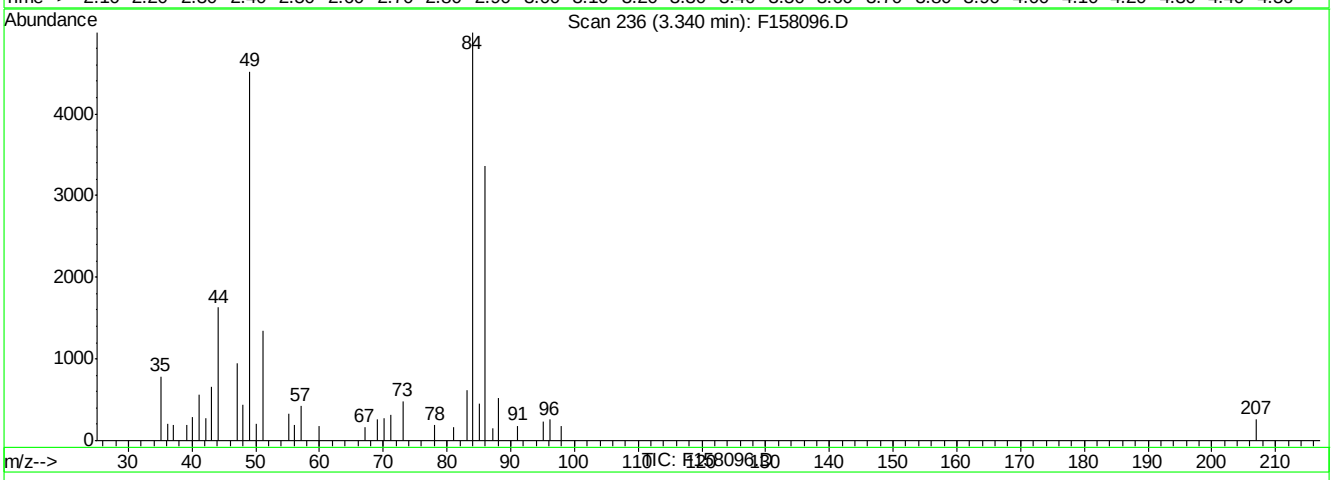
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.05	290	421.00	507				
371.05	186	422.05	388				
372.10	1043	423.10	3889				
373.10	287	424.10	881				
382.90	117	425.10	74				
383.20	65	438.70	67				
390.00	76	441.10	10470				
391.15	119	442.10	75141				
402.05	485	443.10	14798				
403.05	545	444.10	1531				
403.90	183						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158096.D Vial: 1
Acq On : 20 Jun 2016 7:32 am Operator: brittanp
Sample : DFTPP Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 20 7:38 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)

3.34min 0.00ppb

response 0

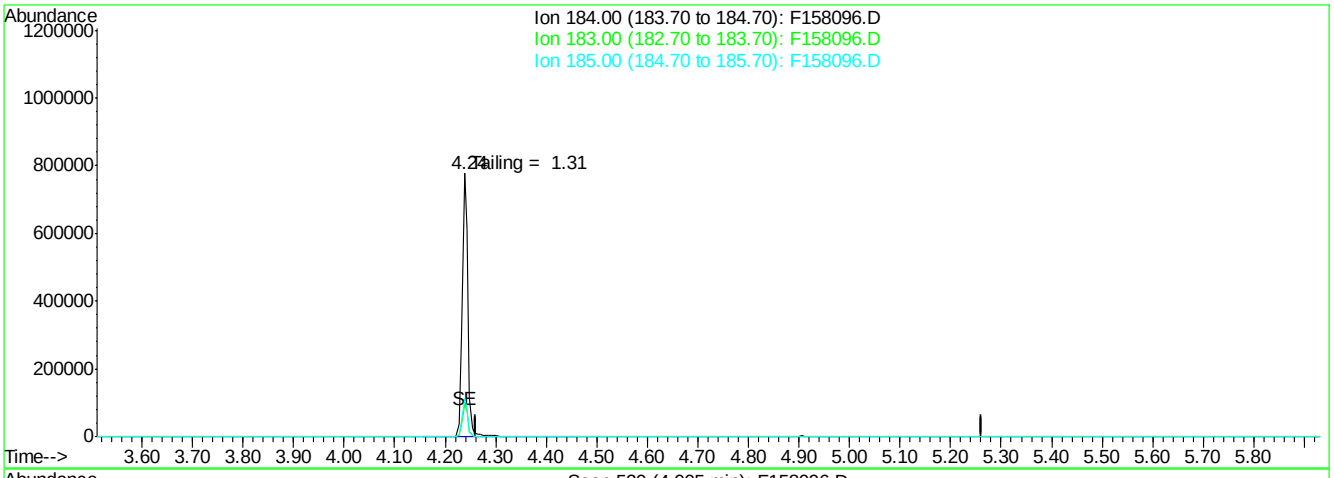
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

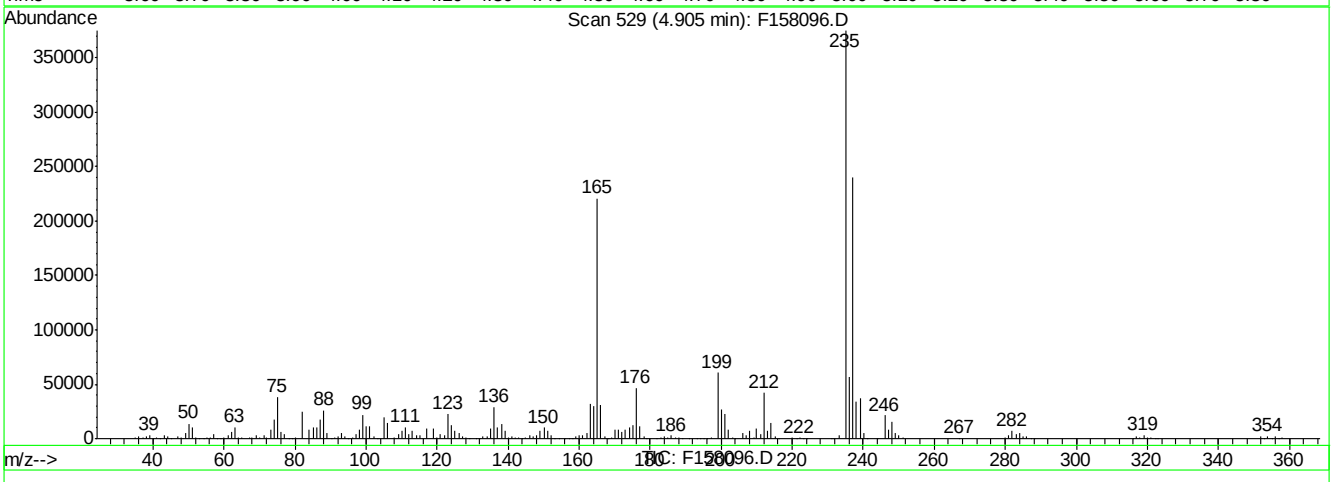
F158096.D DFTPPF.M Mon Jun 20 07:42:35 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158096.D Vial: 1
Acq On : 20 Jun 2016 7:32 am Operator: brittanp
Sample : DFTPP Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 20 7:38 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)

4.91min 0.08ppb

response 1464

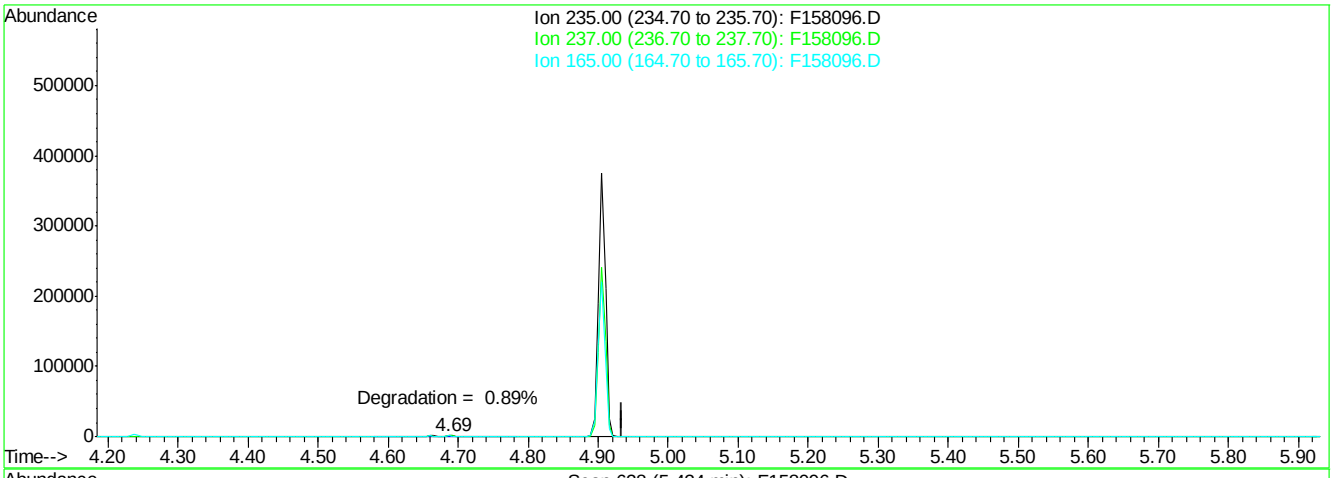
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

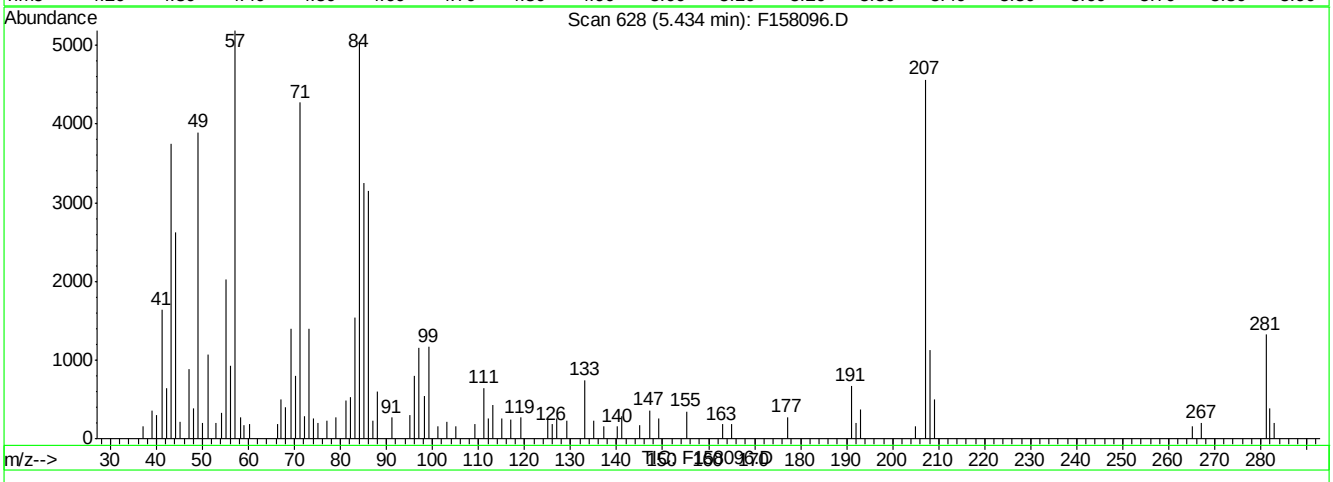
F158096.D DFTPPF.M Mon Jun 20 07:42:42 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158096.D Vial: 1
Acq On : 20 Jun 2016 7:32 am Operator: brittanp
Sample : DFTPP Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 20 7:38 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

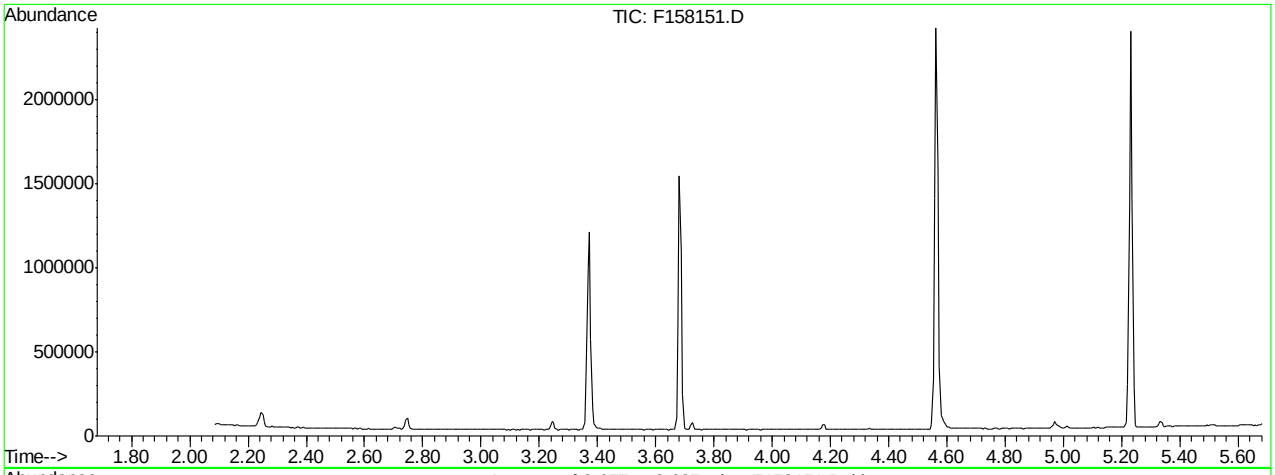
response 0

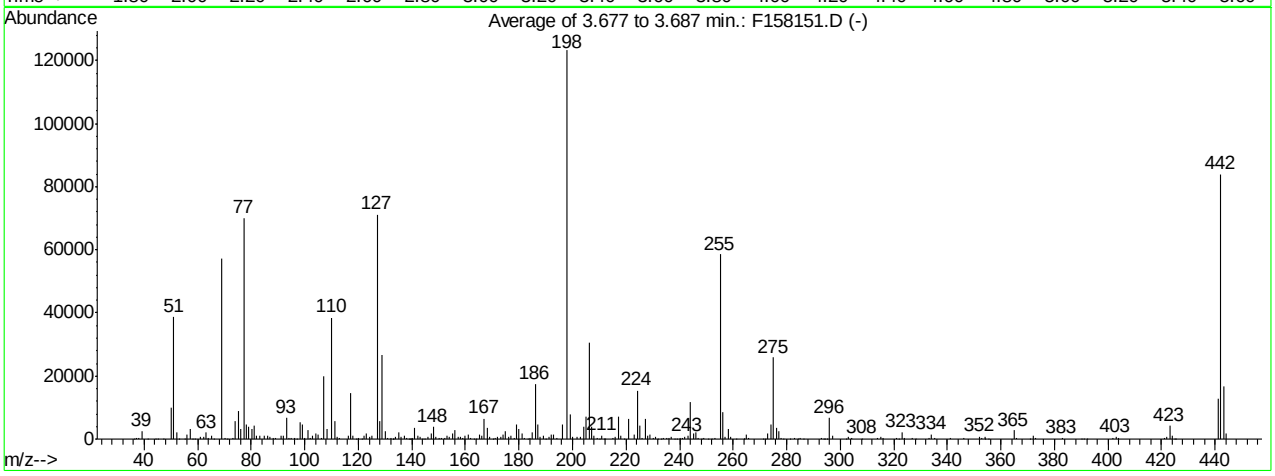
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F158096.D DFTPPF.M Mon Jun 20 07:42:49 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6659\F158151.D Vial: 1
Acq On : 21 Jun 2016 11:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6659 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 299, 300, 301; Background Corrected with Scan 294

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.4	38714	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	57221	PASS
70	69	0.00	2	0.5	300	PASS
127	198	40	60	57.7	71104	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	123210	PASS
199	198	5	9	6.4	7933	PASS
275	198	10	30	21.0	25881	PASS
365	198	1	100	2.2	2738	PASS
441	443	0.10	100	75.7	12667	PASS
442	198	40	100	68.2	84013	PASS
443	442	17	23	19.9	16739	PASS

F158151.D DFTPPF.M Tue Jun 21 11:44:14 2016 RT1

Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	99	53.10	56	66.10	50	80.05	3180
37.05	262	55.10	183	69.05	57221	81.05	4348
38.10	498	56.10	1314	70.05	300	82.00	1099
39.10	2668	57.10	3135	71.05	131	82.95	992
41.10	54	58.10	34	73.10	433	85.00	1188
44.05	54	59.00	115	74.10	5737	86.00	1151
45.10	83	61.00	638	75.10	8920	87.00	594
47.00	109	62.05	679	76.15	3067	88.00	215
50.10	9992	63.10	2037	77.10	70045	89.10	211
51.10	38714	64.05	280	78.10	4795	91.10	932
52.10	1995	65.10	1080	79.05	4041	92.05	1202

Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	6643	104.00	1736	118.05	1252	130.00	2508
94.00	542	105.05	1447	119.05	175	131.05	491
95.05	233	106.00	282	120.00	283	132.00	293
96.10	328	107.10	19926	121.10	162	132.80	96
97.00	70	108.10	3157	122.05	1223	133.10	50
98.05	5303	110.05	38573	123.05	1888	134.00	755
99.10	4772	111.05	5784	124.05	865	135.05	2087
100.05	480	112.10	810	125.05	910	136.05	886
101.05	2716	113.10	293	127.10	71104	137.05	1230
102.05	202	116.05	1145	128.10	5547	138.10	276
103.00	1077	117.00	14572	129.00	26682	138.90	72

Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.15	148	149.00	852	160.00	1023	171.10	318
139.90	82	150.10	292	161.05	1526	172.00	571
140.10	194	151.15	449	161.95	425	173.05	861
141.00	3425	152.05	326	163.00	137	174.10	1303
142.05	1093	153.00	1182	164.00	164	175.05	2389
143.05	832	153.95	745	165.05	1310	176.05	718
144.05	148	155.10	1820	166.05	1008	177.05	1231
144.90	97	156.10	2701	167.05	6412	178.05	422
146.05	608	157.10	666	168.05	3639	179.00	4690
147.05	1860	157.95	637	169.10	689	180.10	3236
148.00	3761	159.10	499	170.10	133	181.05	1634

Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.15	234	193.00	1607	207.10	3794	219.20	52
183.10	81	194.05	317	208.05	1121	221.10	6536
184.00	364	196.05	4564	209.00	471	223.05	1563
185.05	2204	198.00	123210	210.20	82	224.10	15298
186.10	17465	199.00	7933	211.05	1242	225.10	4219
187.05	4798	200.05	680	211.80	78	226.10	240
188.05	651	201.50	575	212.10	68	227.05	6485
189.00	1116	202.95	786	215.05	368	228.05	996
190.00	111	204.10	3949	216.05	596	229.05	1287
191.10	575	205.10	7152	217.00	7275	230.10	216
192.05	1446	206.10	30424	218.05	1021	231.10	600

Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.00	57	243.10	920	256.05	8434	273.05	1949
233.00	163	244.10	11909	257.05	697	274.05	4586
234.05	384	245.05	1734	258.00	3294	275.10	25881
235.05	511	246.05	2180	259.10	560	276.10	3448

236.05	339	246.95	521	261.10	54	277.05	2392
237.00	687	248.10	51	264.00	79	278.00	363
238.00	61	249.10	396	264.20	50	278.90	53
239.05	184	250.80	56	265.05	1441	281.05	131
240.05	217	252.00	57	265.95	244	282.95	248
241.00	267	253.10	255	271.10	104	284.10	175
242.05	803	255.10	58597	272.05	180	285.15	346

Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
286.20	56	314.05	450	335.10	361	372.10	1141
293.05	480	315.00	709	341.05	253	373.00	259
293.80	90	316.10	437	346.00	395	383.00	259
294.10	54	321.05	207	352.05	731	390.05	151
295.10	96	322.00	64	353.00	440	391.05	149
296.00	6717	323.10	2185	353.90	80	392.00	60
297.00	963	324.10	417	354.05	688	401.95	358
302.00	50	327.00	324	355.15	169	402.95	610
303.15	887	328.05	182	365.00	2738	404.00	271
304.15	209	333.05	198	365.95	301	420.95	518
308.10	53	334.05	1476	370.90	79	422.10	569

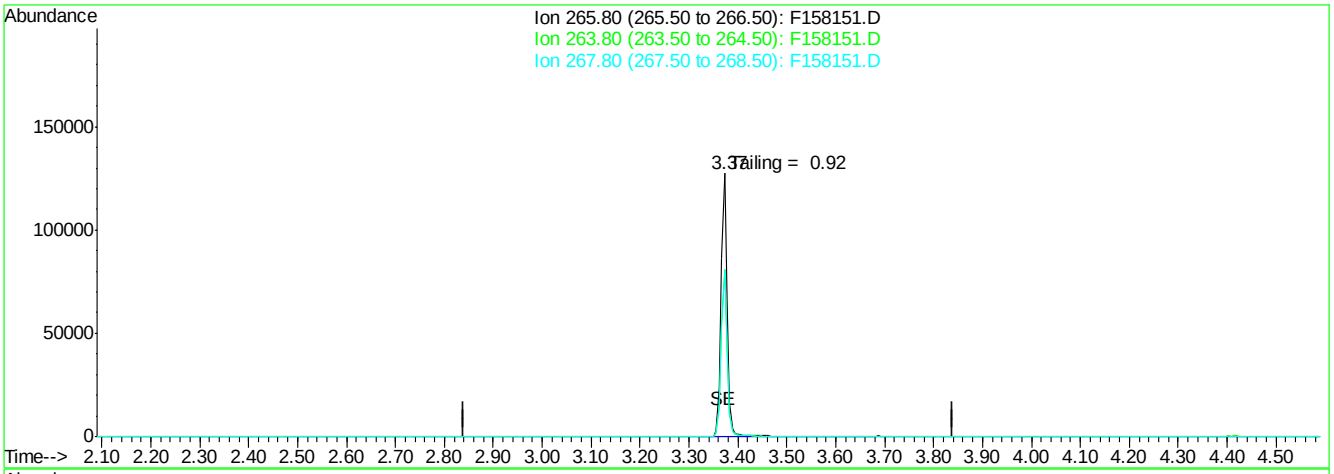
Average of 3.677 to 3.687 min.: F158151.D
dftpp
Modified:subtracted

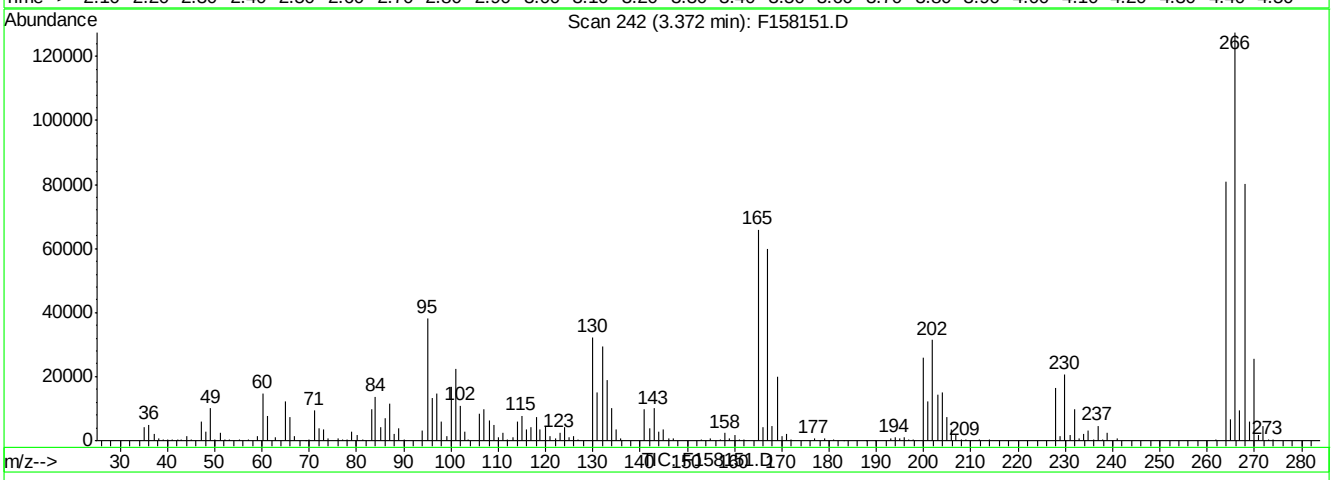
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	4243						
424.10	1050						
424.90	63						
425.10	59						
441.05	12667						
442.10	84013						
443.10	16739						
444.00	1635						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158151.D Vial: 1
Acq On : 21 Jun 2016 11:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 21 11:37 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)

3.37min 57.86ppb

response 107551

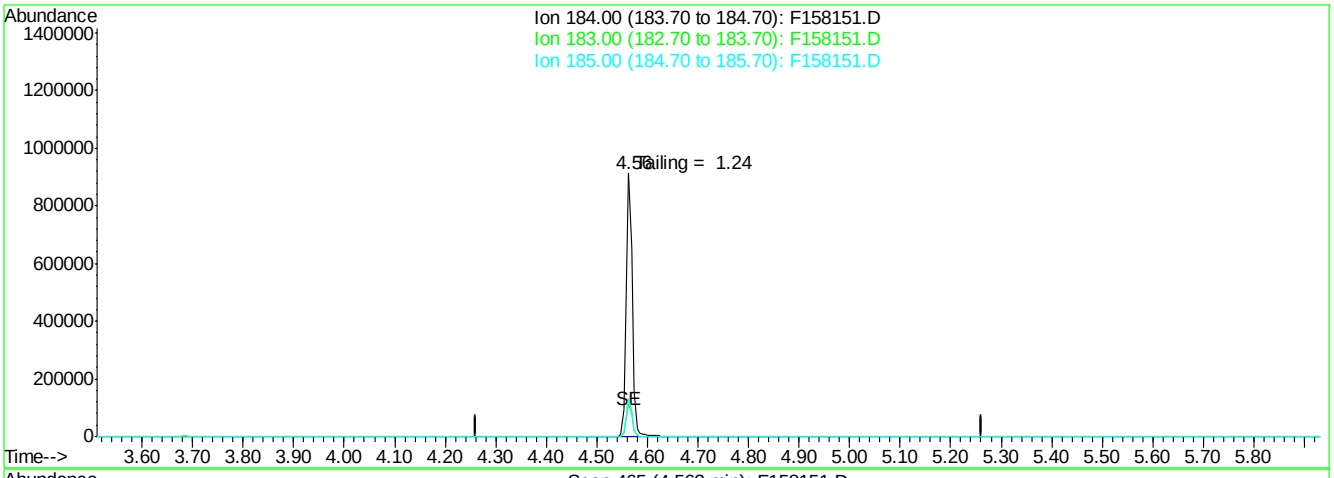
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	63.54
267.80	64.80	62.96
0.00	0.00	0.00

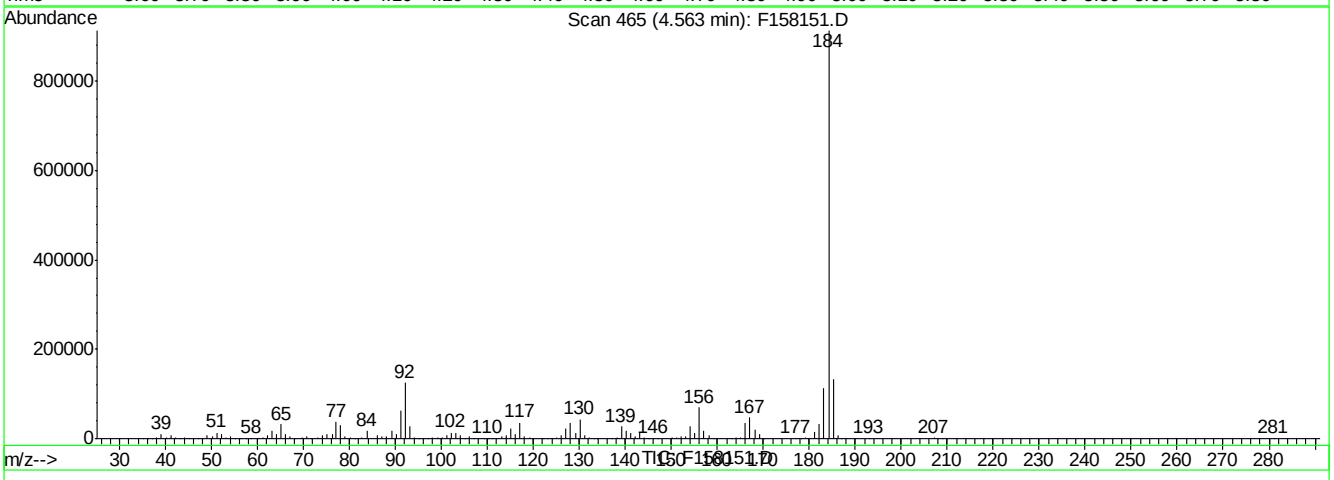
F158151.D DFTPPF.M Tue Jun 21 11:43:50 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158151.D Vial: 1
Acq On : 21 Jun 2016 11:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 21 11:37 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)

4.56min 41.18ppb

response 771485

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	12.19
185.00	16.20	14.14
0.00	0.00	0.00

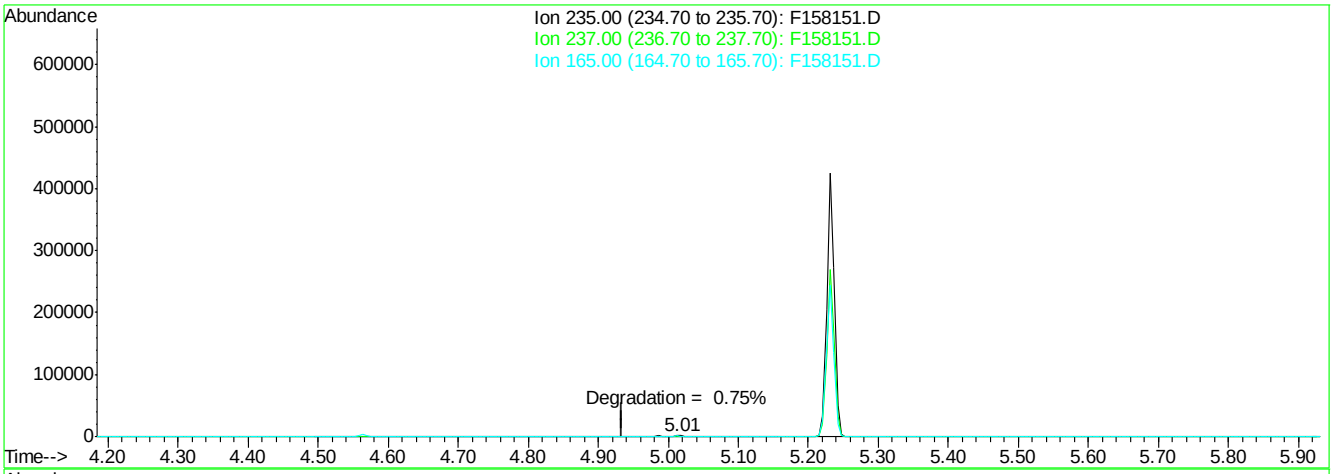
F158151.D DFTPPF.M Tue Jun 21 11:43:56 2016 RT1

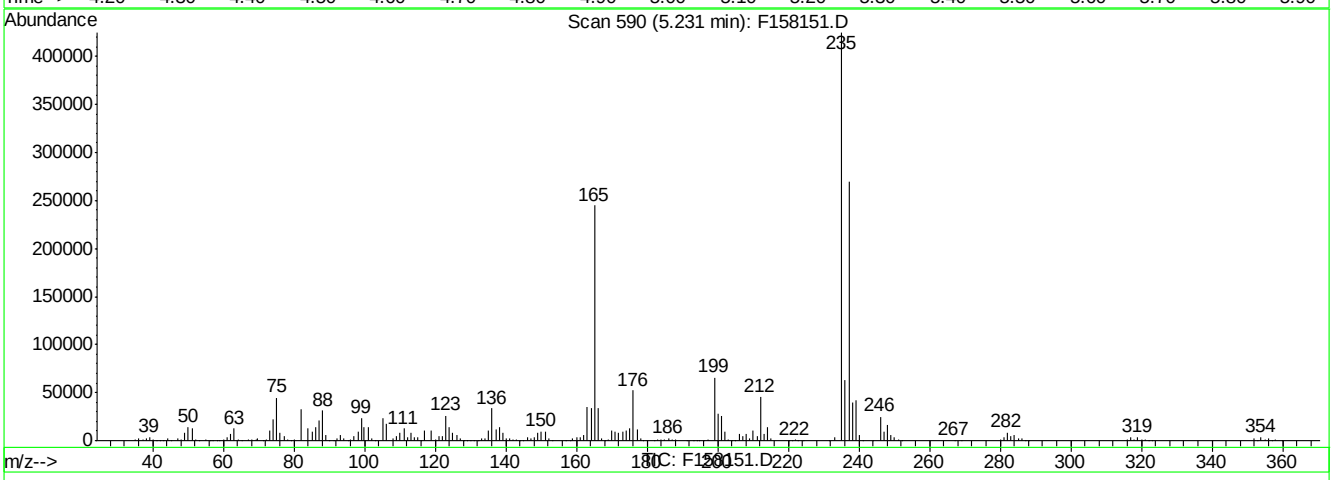
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158151.D Vial: 1
Acq On : 21 Jun 2016 11:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 21 11:37 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)

5.23min 20.47ppb

response 317865

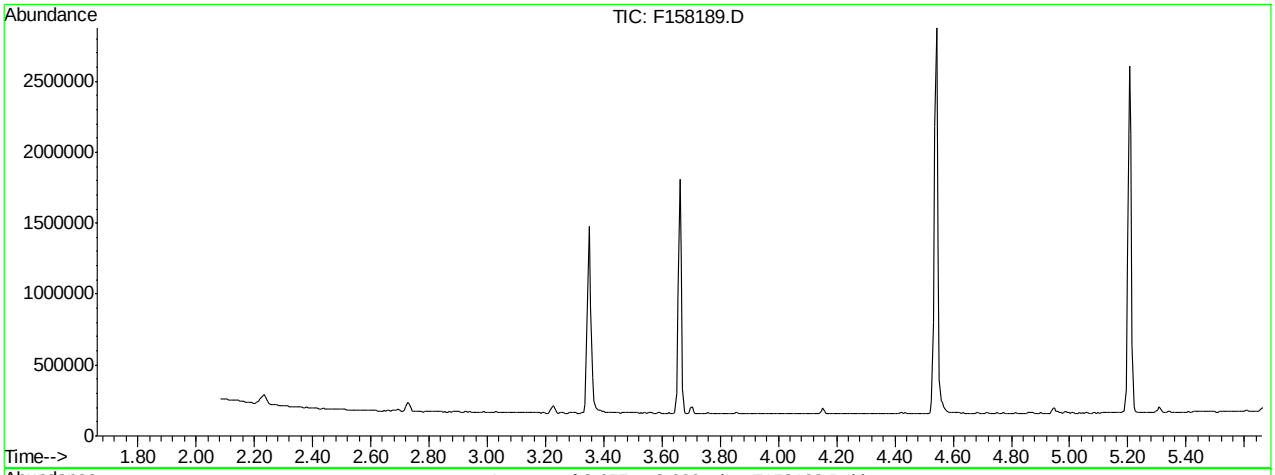
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	63.88
165.00	59.50	58.25
0.00	0.00	0.00

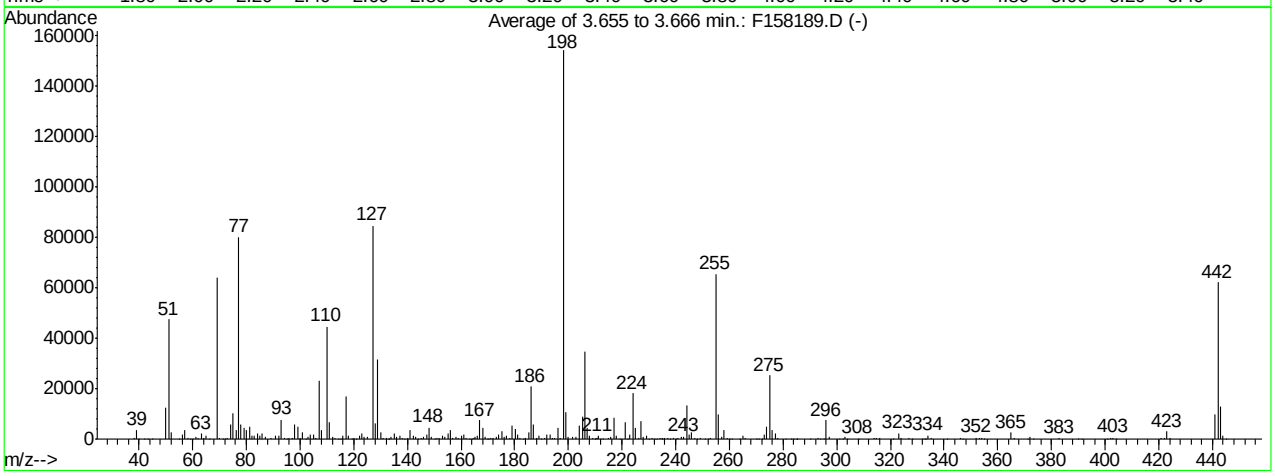
F158151.D DFTPPF.M Tue Jun 21 11:44:08 2016 RT1

SGS ACCUTEST JC22206

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6660\F158189.D Vial: 1
Acq On : 22 Jun 2016 12:11 am Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6660 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 295, 296, 297; 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	30.8	47555	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.6	64161	PASS
70	69	0.00	2	0.5	301	PASS
127	198	40	60	54.9	84592	PASS
197	198	0.00	1	0.3	454	PASS
198	198	100	100	100.0	154224	PASS
199	198	5	9	6.8	10482	PASS
275	198	10	30	16.4	25322	PASS
365	198	1	100	1.7	2587	PASS
441	443	0.10	100	77.8	9885	PASS
442	198	40	100	40.4	62266	PASS
443	442	17	23	20.4	12699	PASS

F158189.D DFTPPF.M Wed Jun 22 08:51:24 2016 RT1

Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.05	654	57.10	3720	70.00	301	81.05	4936
39.10	3787	58.10	289	71.10	216	82.00	1179
40.10	10	59.20	53	72.00	47	83.00	1172
42.10	16	60.10	127	73.10	246	84.00	2397
43.05	161	61.10	743	74.10	5985	85.00	1241
45.10	160	62.05	686	75.10	10237	86.00	2362
50.10	12651	63.10	2188	76.10	3773	87.00	731
51.10	47555	64.10	419	77.10	80226	89.10	277
52.10	2605	65.10	1278	78.10	5681	91.05	1266
55.10	220	66.05	120	79.10	4310	92.05	1269
56.10	1618	69.05	64161	80.05	3388	93.05	7654

Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	615	105.05	1704	117.05	16858	129.00	31674
95.00	50	106.05	597	118.00	1291	130.05	2677
96.05	435	107.10	22938	119.10	158	131.05	600
97.15	246	108.10	3621	120.00	370	132.05	293
98.10	5604	110.00	44661	121.10	67	132.90	128
99.05	5064	111.05	6576	122.05	1379	133.20	59
100.00	603	112.00	880	123.05	2285	134.00	773
101.05	2792	113.05	276	124.05	903	135.00	2453
102.00	155	114.10	52	125.10	921	136.00	1111
103.05	1008	115.00	99	127.10	84592	137.10	1532
104.00	1731	116.05	1179	128.10	6449	137.90	304

Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.90	117	150.05	173	161.05	1933	170.10	188
140.05	338	151.05	565	162.05	629	170.95	370
141.00	3544	151.80	365	163.05	134	172.00	613
142.05	1363	153.05	1217	164.00	223	173.00	948
142.95	901	154.05	1037	164.90	271	174.05	1695
143.95	165	155.05	2196	165.05	1030	175.10	3119
144.95	290	156.05	3403	166.05	1185	176.00	885
146.05	744	157.05	605	167.05	7461	176.95	1368
147.05	1901	158.00	725	168.00	4525	178.00	485
148.00	4508	159.05	538	169.00	777	179.00	5361
149.05	887	160.05	1249	169.90	69	180.05	4078

Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.00	1828	192.05	1744	204.05	5167	213.00	140
181.95	321	193.05	1947	205.10	8745	214.95	339
183.10	61	194.05	465	206.10	34618	215.95	711
184.05	349	195.05	332	207.05	4672	217.00	8576
185.05	2670	196.05	4454	208.00	1190	218.00	1197
186.10	20778	196.80	454	209.05	380	219.10	59
187.05	5644	198.00	154224	210.00	88	221.05	6647
188.05	533	199.00	10482	210.15	519	221.90	219
189.00	1189	200.05	834	210.90	255	223.05	1877
189.90	102	201.55	785	211.05	1206	224.05	18074
190.95	639	203.00	950	212.10	55	225.05	4349

Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.05	438	235.95	426	247.00	503	260.05	110
227.00	6974	237.05	682	248.10	70	261.00	67
228.00	1088	238.00	72	249.00	627	263.90	58
229.05	1507	239.00	278	250.90	61	265.00	1450

230.00	188	240.05	184	252.05	157	266.05	295
231.00	672	240.95	395	253.00	266	269.90	66
232.05	124	242.05	826	255.00	65517	271.00	145
233.05	131	243.10	972	256.00	9600	272.00	164
233.95	515	244.05	13203	257.05	792	273.05	2004
234.80	65	245.05	1770	258.00	3609	274.00	4725
235.00	445	246.00	2549	259.00	602	275.00	25322

Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	3412	295.00	55	321.00	183	346.00	575
277.00	2194	296.00	7364	323.05	2234	346.90	55
278.00	353	297.00	985	324.00	445	351.95	611
281.10	73	301.00	64	326.95	373	353.00	399
283.10	211	302.10	53	328.00	203	354.00	605
284.00	118	303.05	785	332.00	151	355.00	50
284.90	134	304.05	219	332.90	88	365.00	2587
285.10	114	308.00	73	333.10	101	365.95	369
290.10	69	314.05	330	334.05	1404	371.00	53
293.05	473	314.90	624	335.05	371	372.05	1044
293.95	126	316.00	449	341.00	219	373.05	207

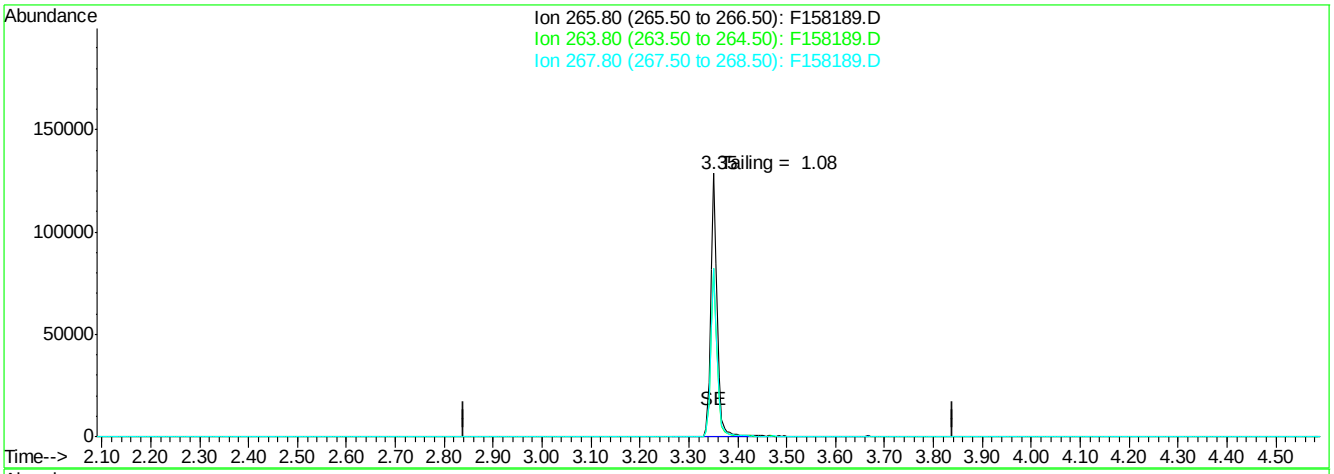
Average of 3.655 to 3.666 min.: F158189.D
dftpp
Modified:subtracted

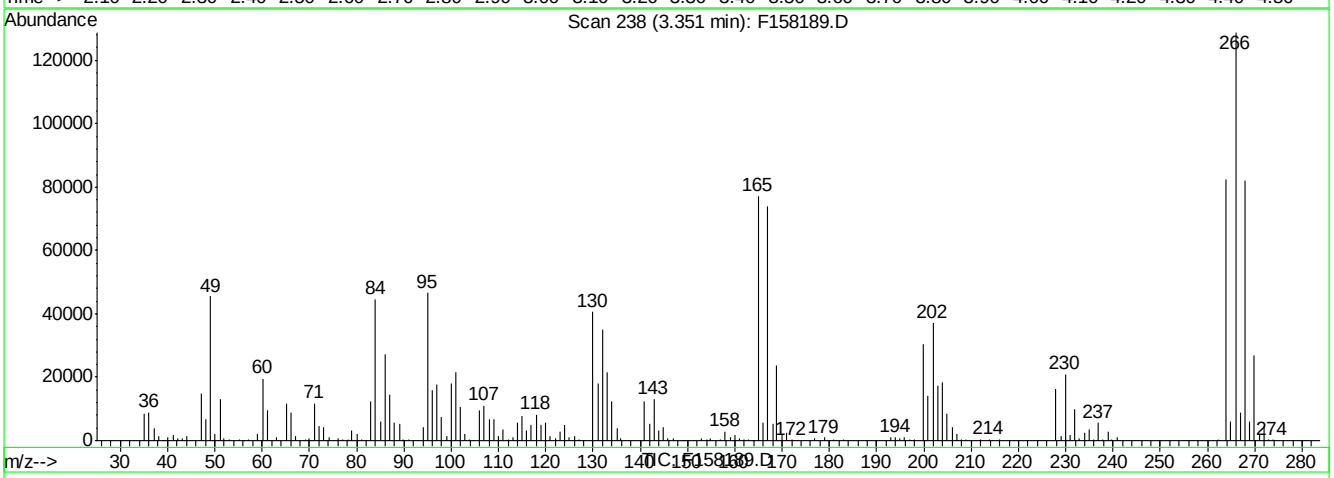
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
382.95	267	441.00	9885				
389.95	115	442.00	62266				
391.10	50	443.00	12699				
400.90	52	444.00	1226				
402.00	443	444.90	54				
403.00	571						
404.00	166						
421.00	491						
422.00	501						
423.00	3052						
424.05	682						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158189.D Vial: 1
Acq On : 22 Jun 2016 12:11 am Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 22 0:17 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)

3.35min 65.45ppb

response 121669

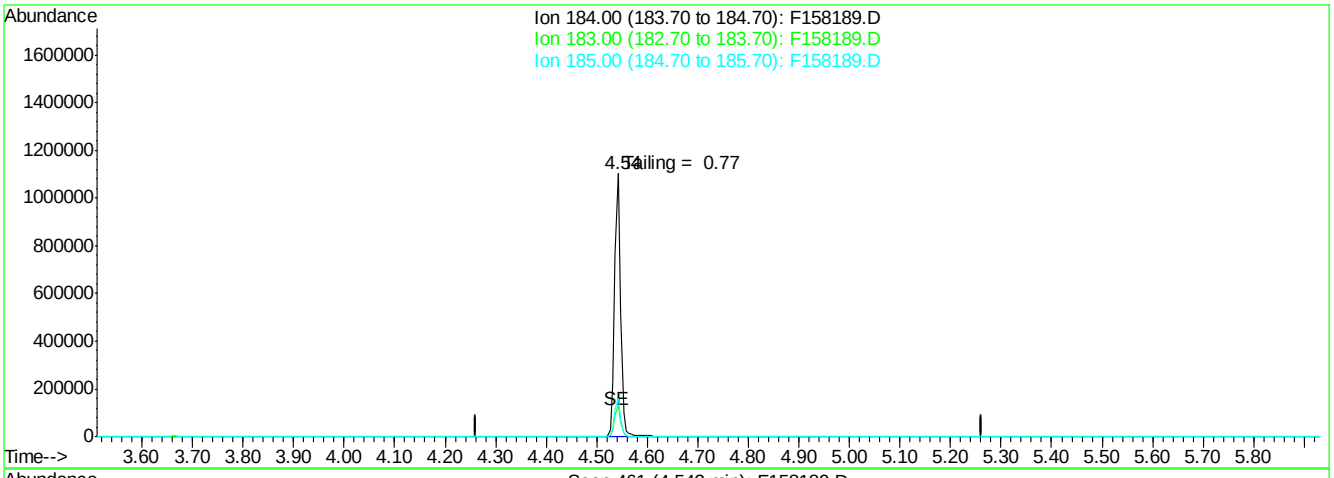
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	64.01
267.80	64.80	63.78
0.00	0.00	0.00

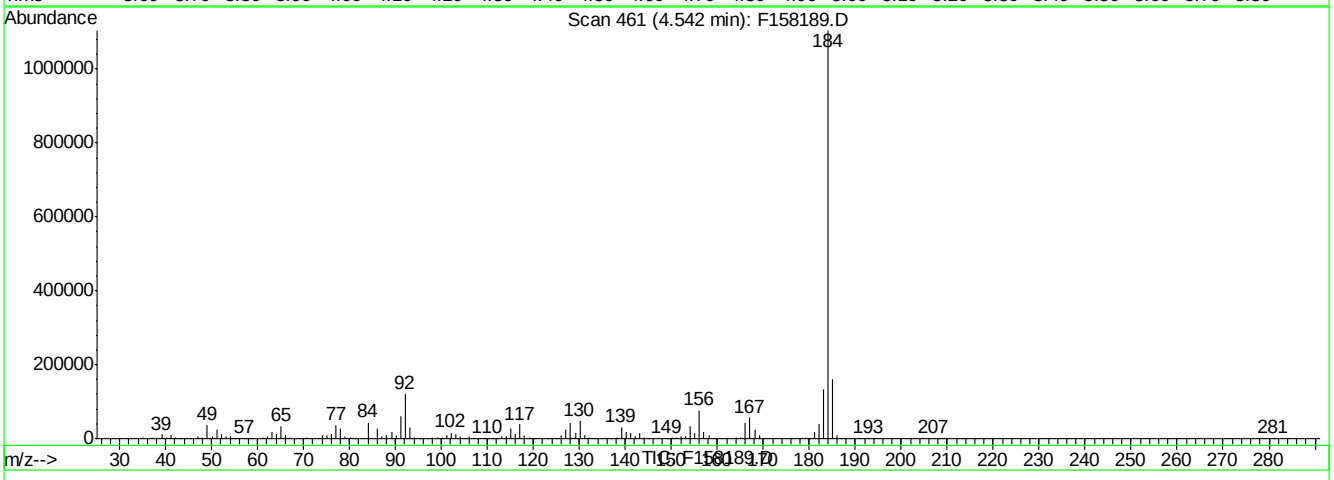
F158189.D DFTPPF.M Wed Jun 22 08:50:42 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158189.D Vial: 1
Acq On : 22 Jun 2016 12:11 am Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 22 0:17 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)

4.54min 48.57ppb

response 909832

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.90
185.00	16.20	14.28
0.00	0.00	0.00

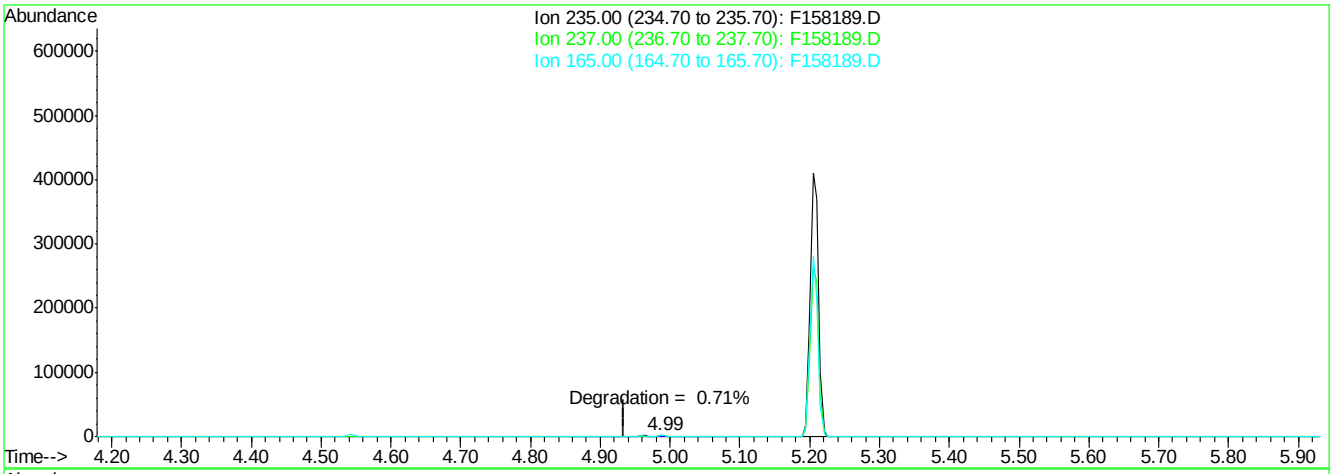
F158189.D DFTPPF.M Wed Jun 22 08:50:47 2016 RT1

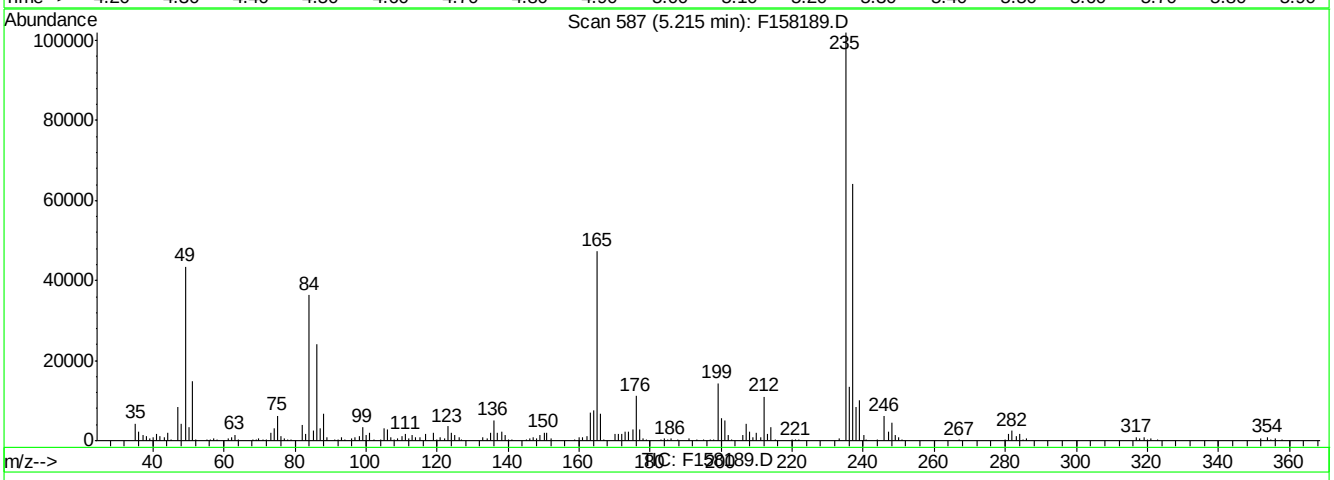
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158189.D Vial: 1
Acq On : 22 Jun 2016 12:11 am Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 22 0:17 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)

5.20min 22.03ppb

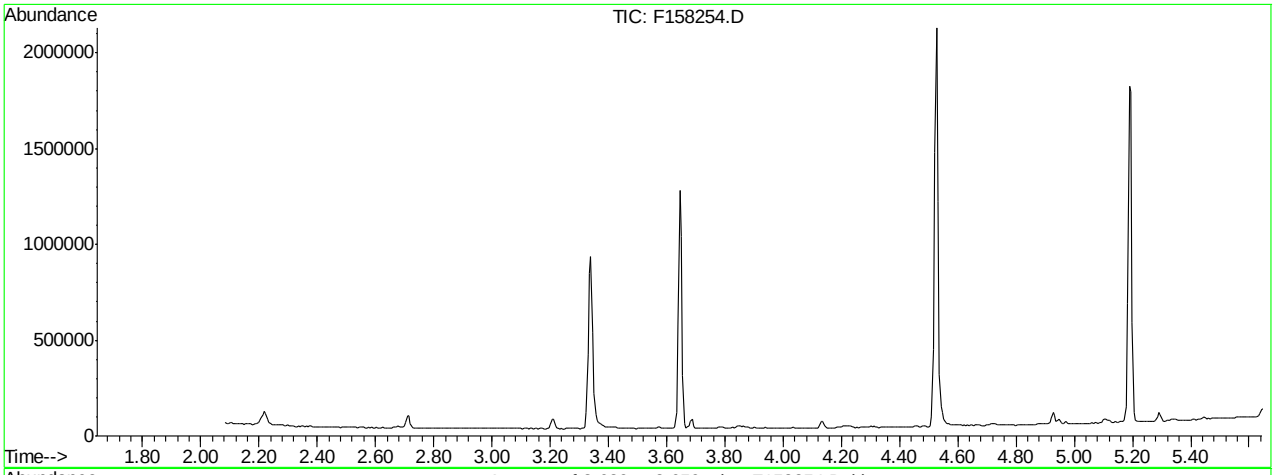
response 342024

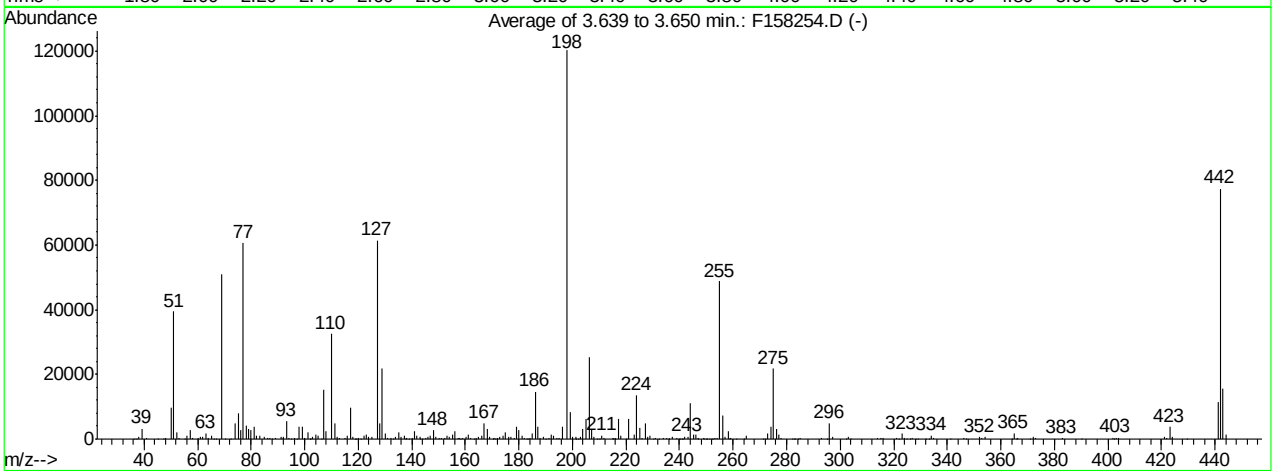
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.40
165.00	59.50	64.51
0.00	0.00	0.00

F158189.D DFTPPF.M Wed Jun 22 08:50:56 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6662\F158254.D Vial: 1
Acq On : 23 Jun 2016 10:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6662 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 292, 293, 294; Background Corrected with Scan 287

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.8	39444	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	51005	PASS
70	69	0.00	2	0.2	97	PASS
127	198	40	60	51.1	61389	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	120173	PASS
199	198	5	9	6.9	8290	PASS
275	198	10	30	18.1	21726	PASS
365	198	1	100	1.6	1889	PASS
441	443	0.10	100	74.5	11523	PASS
442	198	40	100	64.4	77424	PASS
443	442	17	23	20.0	15462	PASS

F158254.D DFTPPF.M Thu Jun 23 15:20:19 2016 RT1

Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	45	53.10	199	66.10	126	80.00	2749
37.05	54	55.10	70	67.05	136	81.10	3879
38.10	687	56.10	1134	69.05	51005	82.05	949
39.10	3258	57.10	2650	70.10	97	83.10	1023
41.10	286	58.05	199	72.15	132	85.00	728
45.10	34	60.05	193	74.10	4829	86.00	414
47.10	15	61.10	555	75.05	8136	87.10	400
48.05	202	62.05	616	76.15	2822	88.00	184
50.10	9884	63.10	1833	77.05	60549	89.10	199
51.10	39444	64.10	367	78.10	4211	91.10	680
52.10	2078	65.10	1227	79.05	3081	91.90	196

Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.10	766	102.20	50	115.05	228	125.00	851
93.05	5670	103.05	803	116.05	974	127.05	61389
94.00	483	104.00	1411	117.05	9850	128.05	4841
95.05	158	105.05	1025	118.00	760	129.00	21730
96.10	211	106.10	131	119.00	77	130.00	1643
97.15	168	107.05	15395	119.15	133	131.05	460
98.00	3742	108.05	2598	120.00	212	132.00	229
99.00	3669	110.00	32437	121.05	4	133.05	36
100.05	227	111.05	4761	122.05	967	134.00	667
101.05	2226	112.05	564	123.00	1451	135.05	1978
101.90	56	113.05	251	123.95	678	135.95	742

Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.15	1055	146.05	557	157.15	470	167.00	4942
137.70	67	147.05	1057	157.85	273	168.05	3029
137.95	249	148.00	2894	158.10	142	169.00	558
138.90	112	149.05	637	159.05	429	170.10	175
140.10	199	150.10	221	160.05	827	170.85	200
141.05	2309	151.15	507	161.05	1230	171.15	179
142.00	956	152.10	296	161.95	416	172.00	497
142.90	165	153.05	888	163.00	65	173.00	546
143.05	587	154.00	642	163.95	233	174.00	1111
143.95	162	155.10	1424	165.00	812	175.10	2031
145.00	223	156.10	2304	166.05	936	176.15	741

Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	873	187.10	3798	199.00	8290	209.05	130
178.05	289	188.05	457	200.05	563	210.10	169
179.00	3814	189.00	760	201.20	66	211.05	1080
180.05	2674	190.15	141	201.45	561	211.60	194
181.05	1213	191.10	438	202.30	83	214.95	204
182.00	285	192.00	1304	203.05	693	215.20	61
183.00	94	193.10	1173	204.00	3259	215.90	73
183.20	64	194.05	377	205.05	6090	216.10	508
184.05	363	195.00	236	206.10	25334	217.00	6177
185.05	1903	196.10	3958	207.10	3261	218.00	897
186.10	14633	198.00	120173	208.10	669	220.00	93

Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.00	6316	234.00	253	243.05	735	251.90	60
223.00	1341	235.05	344	244.10	10971	252.20	51
224.10	13693	235.90	162	245.05	1379	253.05	326
225.10	3562	236.05	118	246.05	1556	253.95	452

226.05	383	237.10	538	246.90	88	255.05	48874
227.05	4762	239.05	200	247.10	313	256.05	7252
228.05	761	239.90	145	248.90	51	257.05	579
229.00	999	240.20	57	249.05	345	258.05	2344
230.00	163	241.00	167	249.70	51	258.80	59
231.05	497	241.20	137	250.20	58	259.05	316
232.10	69	242.05	723	251.20	51	261.10	52

Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
263.90	162	282.90	151	313.95	211	328.90	52
265.05	989	283.10	115	315.00	487	332.00	74
271.00	89	284.15	145	316.05	407	333.05	181
272.10	89	285.05	248	321.00	199	334.10	1169
272.95	1630	293.05	346	322.00	76	335.05	259
274.05	3773	294.90	50	323.10	1720	340.95	164
275.05	21726	296.05	4933	324.05	349	345.95	347
276.05	3105	297.05	624	325.00	66	347.20	50
277.05	1431	302.00	70	326.10	52	352.05	580
277.95	299	303.15	678	327.00	312	353.00	422
281.90	73	304.05	126	328.05	118	354.05	741

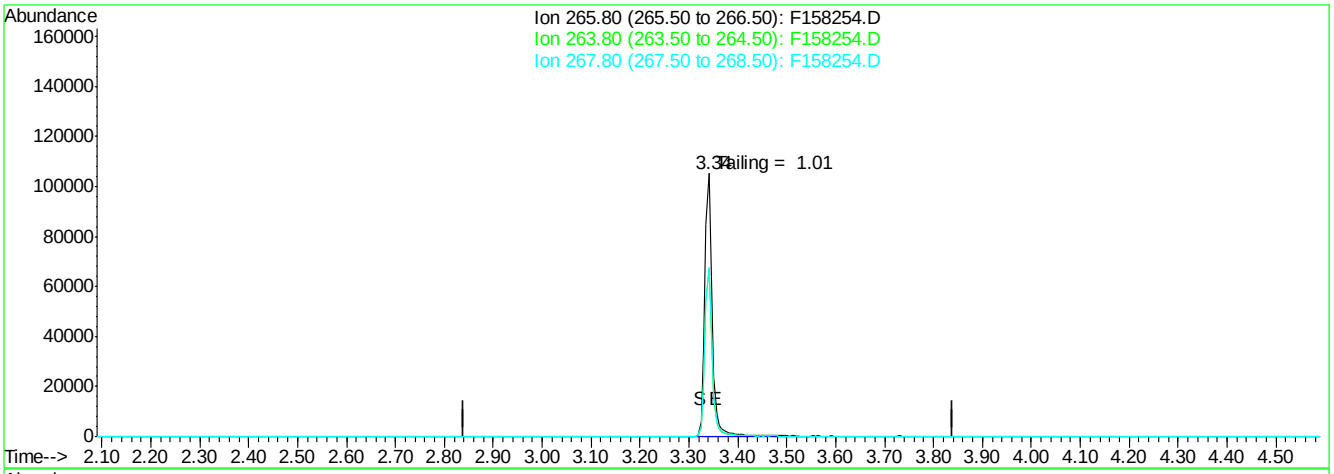
Average of 3.639 to 3.650 min.: F158254.D
dftpp
Modified:subtracted

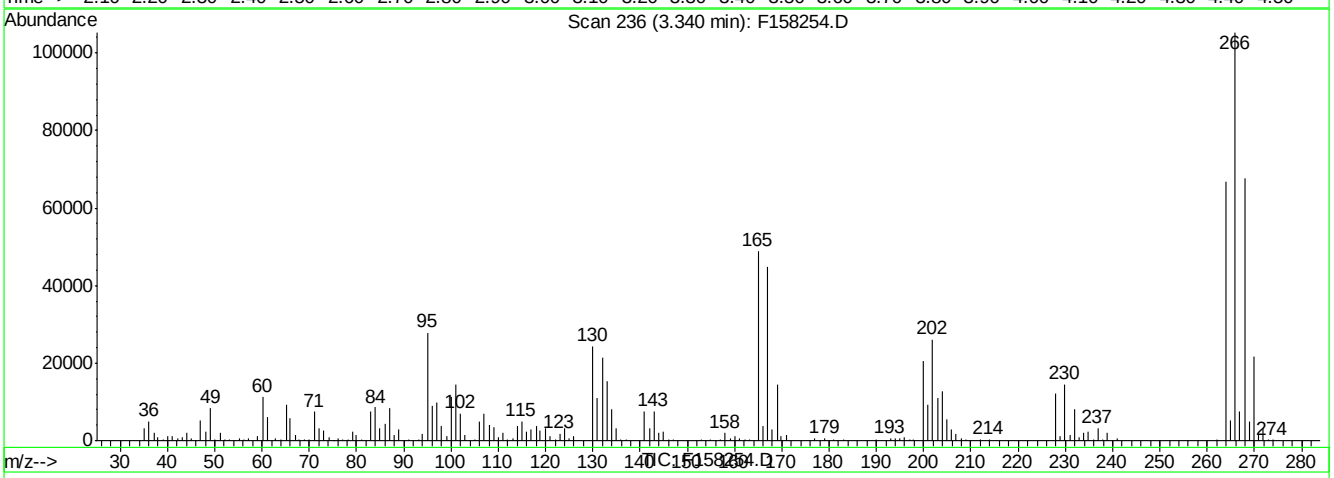
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
364.10	55	403.05	504				
365.00	1889	404.10	195				
365.90	54	421.05	568				
366.10	259	421.95	378				
371.00	182	423.00	3783				
372.05	849	424.05	820				
373.00	205	429.30	63				
382.95	229	441.05	11523				
390.05	124	442.00	77424				
401.90	214	443.05	15462				
402.10	171	444.00	1425				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158254.D Vial: 1
Acq On : 23 Jun 2016 10:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 23 10:37 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)

3.34min 60.00ppb

response 111531

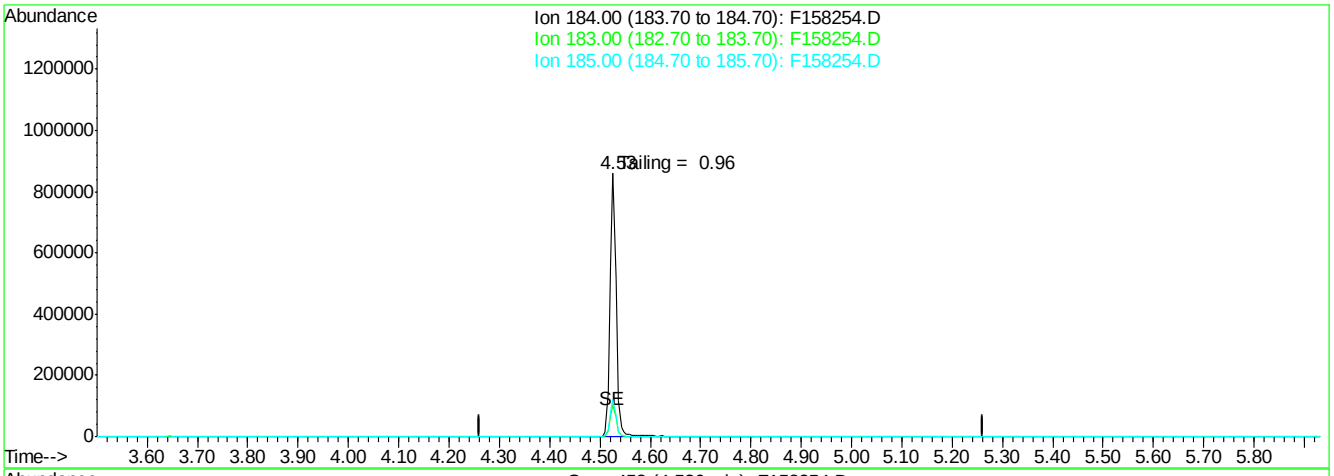
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	63.37
267.80	64.80	64.22
0.00	0.00	0.00

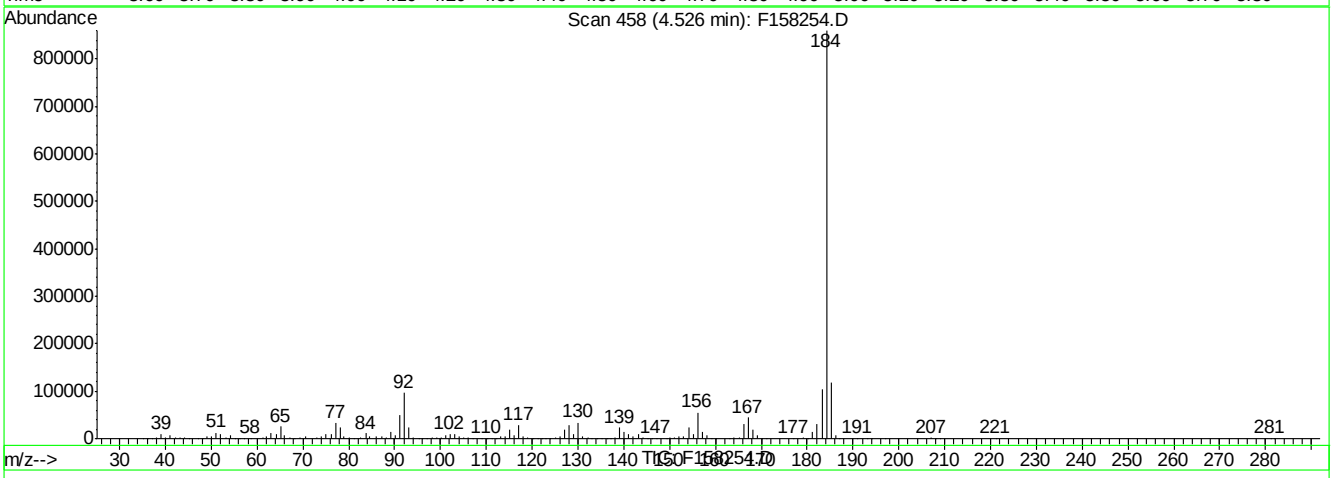
F158254.D DFTPPF.M Thu Jun 23 10:38:25 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158254.D Vial: 1
Acq On : 23 Jun 2016 10:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 23 10:37 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)

4.53min 39.50ppb

response 739876

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.98
185.00	16.20	14.07
0.00	0.00	0.00

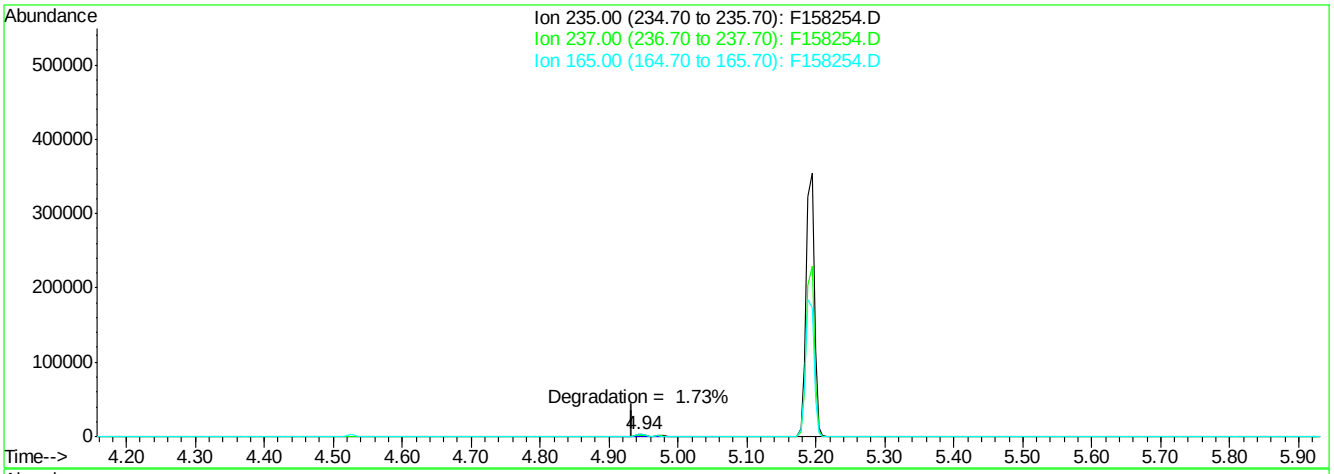
F158254.D DFTPPF.M Thu Jun 23 10:38:32 2016 RT1

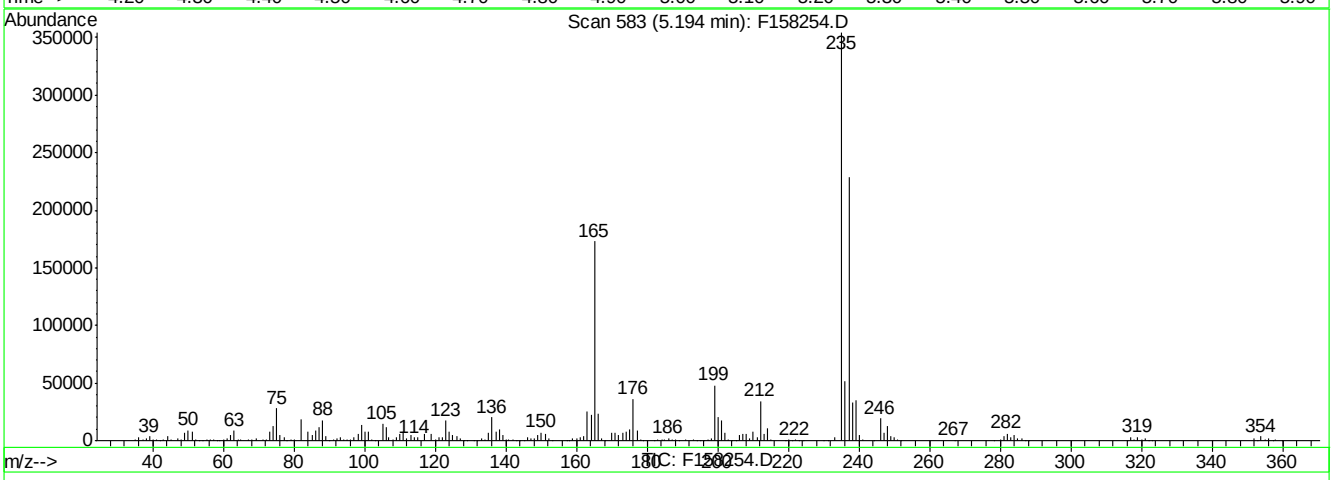
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158254.D Vial: 1
Acq On : 23 Jun 2016 10:31 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 23 10:37 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)

5.19min 18.95ppb

response 294265

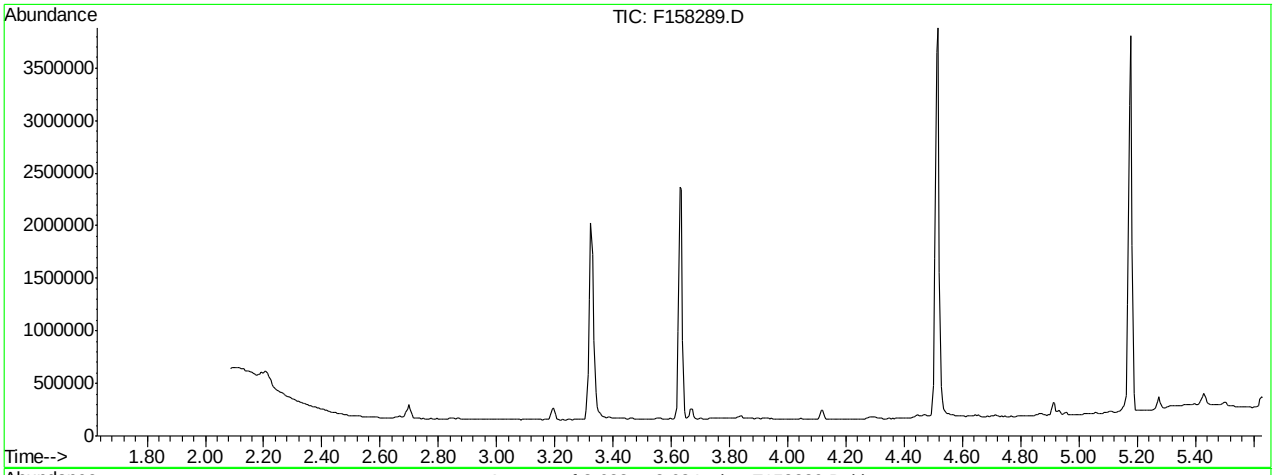
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	63.40
165.00	59.50	53.02
0.00	0.00	0.00

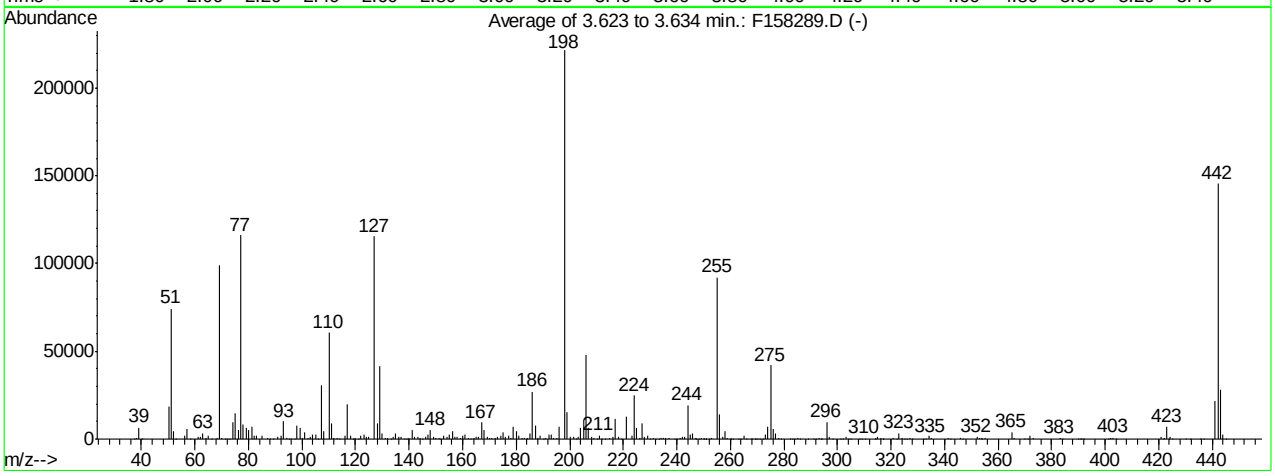
F158254.D DFTPPF.M Thu Jun 23 10:38:38 2016 RT1

SGS ACCUTEST JC22206

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6663\F158289.D Vial: 1
Acq On : 24 Jun 2016 7:40 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6663 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 289, 290, 291; Background Corrected with Scan 284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.6	74291	PASS
68	69	0.00	2	0.4	372	PASS
69	198	0.00	100	44.8	99213	PASS
70	69	0.00	2	0.5	523	PASS
127	198	40	60	52.2	115518	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	221402	PASS
199	198	5	9	6.9	15211	PASS
275	198	10	30	18.9	41874	PASS
365	198	1	100	1.8	3933	PASS
441	443	0.10	100	76.8	21475	PASS
442	198	40	100	65.7	145405	PASS
443	442	17	23	19.2	27958	PASS

F158289.D DFTPPF.M Fri Jun 24 11:00:34 2016 RT1

Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	306	61.00	1051	73.10	196	85.10	1711
38.10	983	62.05	1126	74.10	9648	87.05	964
39.10	6484	63.05	3396	75.10	14763	88.00	138
40.10	207	64.10	401	76.10	5417	89.05	168
50.10	18278	65.10	1966	77.10	115991	91.05	1144
51.10	74291	66.00	93	78.10	8091	92.05	1707
52.10	4180	68.10	372	79.05	6111	93.05	10154
53.00	170	69.05	99213	80.10	5226	94.05	719
56.10	2189	70.10	523	81.10	7310	95.10	89
57.10	5658	71.10	243	82.05	2234	96.05	305
58.10	334	72.05	49	83.10	1673	97.10	117

Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
98.05	7460	110.05	60663	122.05	1835	134.10	1099
99.10	6573	111.05	8949	123.05	2829	135.05	3173
100.00	553	112.05	844	124.05	1303	136.05	1535
101.05	4063	113.05	599	125.00	1476	137.00	1533
102.05	395	114.10	168	127.10	115518	138.10	295
103.05	1270	116.10	1676	128.10	9007	139.15	340
104.05	2518	117.00	19826	129.00	41763	140.00	501
105.05	2308	118.05	1664	130.00	3319	141.00	4876
106.05	145	119.05	159	131.00	599	142.05	1515
107.10	30474	120.00	360	132.05	407	143.05	1203
108.10	4778	121.05	65	133.10	112	144.05	479

Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.10	248	156.10	4417	167.05	9471	178.05	814
146.05	1063	157.05	1041	168.05	5222	179.00	7018
147.05	2298	158.05	1001	169.05	1066	180.10	4805
148.00	5227	159.00	786	170.05	385	181.05	2208
149.05	995	160.05	1626	171.05	443	182.05	477
150.10	471	161.05	2330	172.00	846	183.05	360
151.10	815	162.00	548	173.10	1085	183.90	90
151.70	202	163.10	152	174.05	2156	184.10	501
153.05	1756	164.15	350	175.10	3557	185.10	3387
154.10	1411	165.00	1459	176.05	1223	186.10	27035
155.10	2755	166.05	1562	177.05	1707	187.10	7816

Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
188.05	760	200.05	1246	211.05	2027	225.10	6257
189.05	1643	201.45	1095	212.10	70	226.15	623
190.10	203	202.20	79	213.20	204	227.05	9010
191.10	573	203.05	1357	215.05	527	228.00	1337
192.05	2338	204.10	6556	216.05	1135	229.10	2119
193.05	2478	205.10	10894	217.00	11372	230.10	340
194.05	610	206.10	47706	218.05	1579	231.05	924
195.05	355	207.05	6528	219.15	265	231.95	144
196.10	7035	208.10	1319	221.05	12776	233.10	238
198.00	221402	209.05	587	223.05	2229	234.05	646
199.00	15211	210.40	170	224.10	24856	235.05	718

Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.95	390	247.05	606	257.05	1241	268.00	80
237.00	854	248.20	66	258.00	4557	269.30	62
239.00	328	249.05	686	259.00	740	269.50	50
240.10	283	250.00	73	259.90	75	270.10	125

241.05	583	250.20	71	260.10	70	270.95	252
242.10	1198	250.80	85	261.05	177	272.10	337
243.10	1234	251.00	105	263.20	52	273.05	2820
244.10	19301	252.15	246	263.90	49	274.10	7318
245.05	2729	253.10	609	265.05	1876	275.10	41874
246.05	3215	255.10	92258	265.95	73	276.10	5613
246.90	94	256.10	13896	267.80	88	277.05	3101

Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.05	586	294.00	91	309.05	136	324.05	565
279.10	95	294.20	76	310.15	201	324.90	60
282.20	102	296.05	9709	314.00	209	326.00	52
283.00	271	297.00	1212	314.20	271	326.95	643
284.05	229	298.10	71	315.05	1029	328.05	291
285.05	566	301.00	83	316.00	687	332.00	242
286.00	81	301.95	234	316.90	70	333.10	343
289.05	132	303.15	1064	317.20	65	334.10	2061
291.00	61	303.95	310	321.00	454	335.00	790
292.10	189	305.00	60	322.10	96	341.15	518
293.00	785	308.10	136	323.10	3320	342.05	186

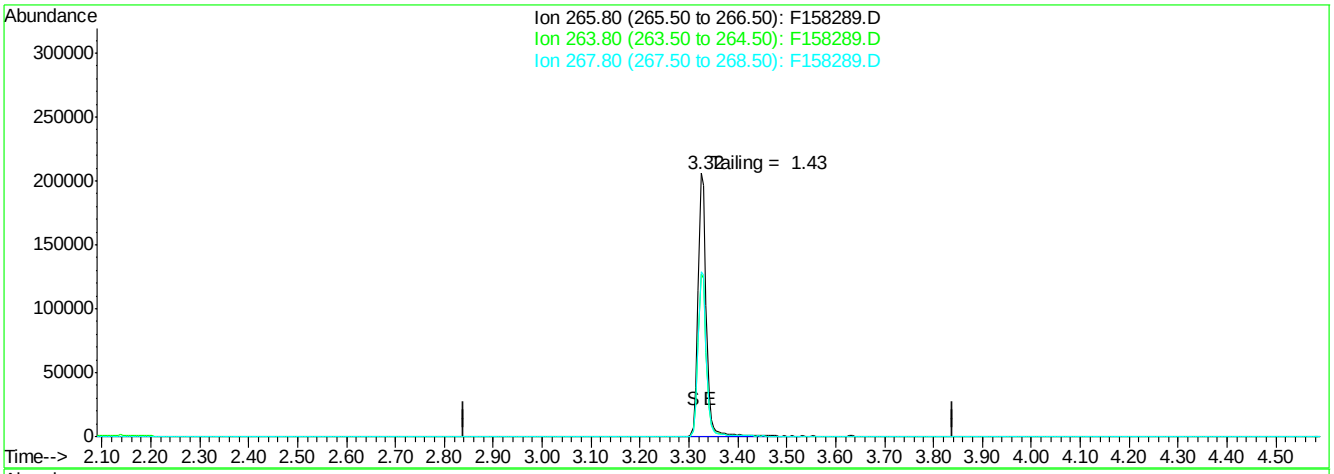
Average of 3.623 to 3.634 min.: F158289.D
dftpp
Modified:subtracted

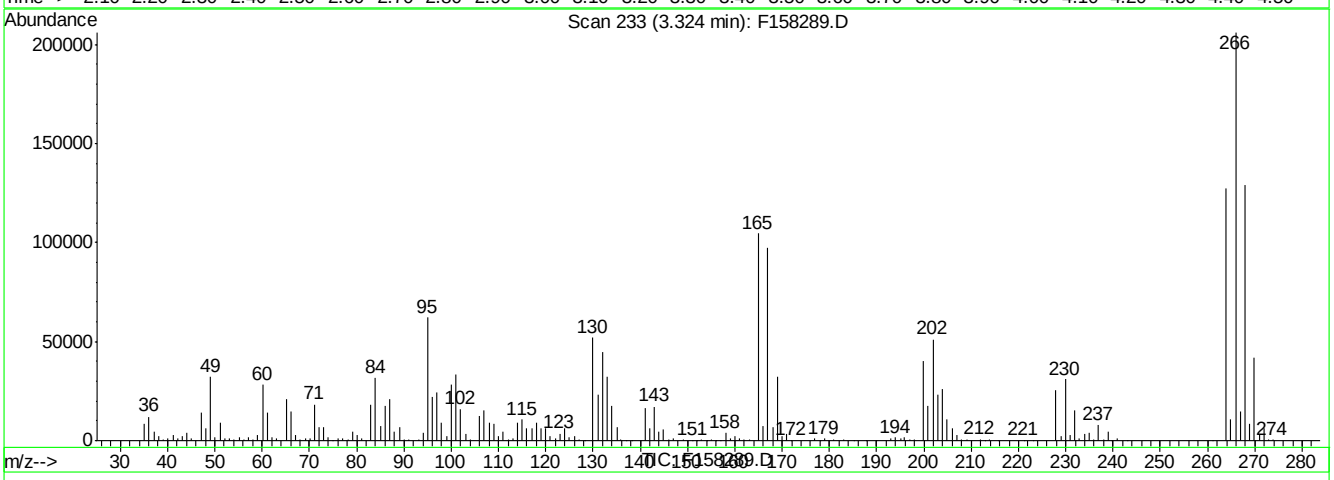
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.00	864	372.05	1872	404.00	265	436.90	53
346.90	53	373.05	415	421.00	1121	441.10	21475
352.10	1077	383.00	414	421.80	89	442.05	145405
353.10	682	384.00	76	422.10	827	443.10	27958
353.90	105	389.90	187	423.05	6838	444.10	2786
354.05	828	390.80	63	423.90	108	445.05	135
355.10	364	391.15	128	424.10	1099		
365.00	3933	392.00	104	425.05	162		
366.00	512	401.05	186	430.20	57		
370.00	62	402.00	703	431.60	79		
370.95	211	403.00	945	435.70	58		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158289.D Vial: 1
Acq On : 24 Jun 2016 7:40 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 7:46 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)

3.32min 128.82ppb

response 239462

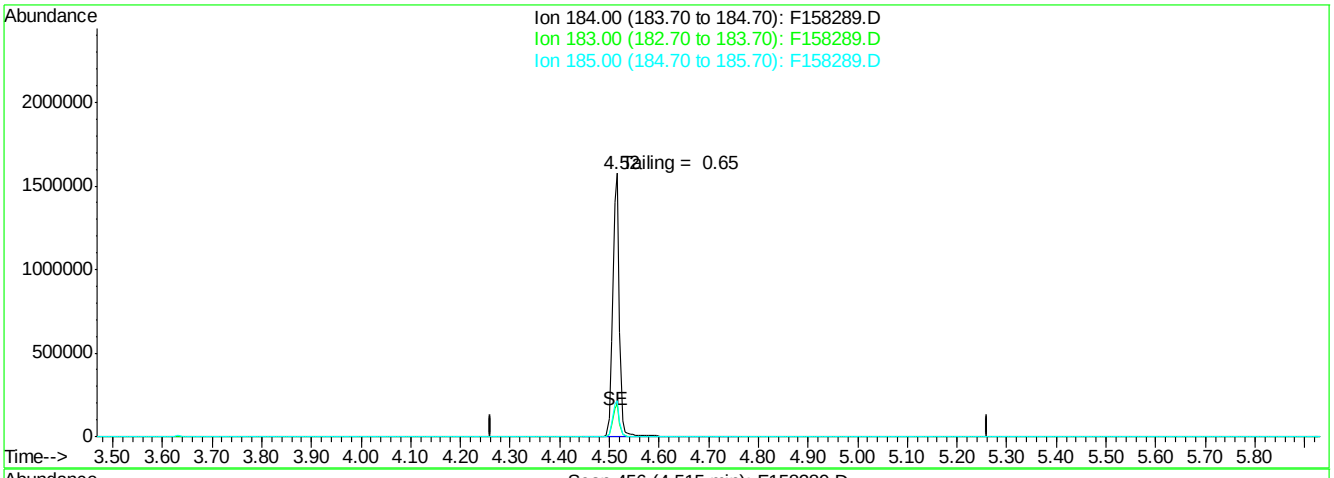
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	61.88
267.80	64.80	62.49
0.00	0.00	0.00

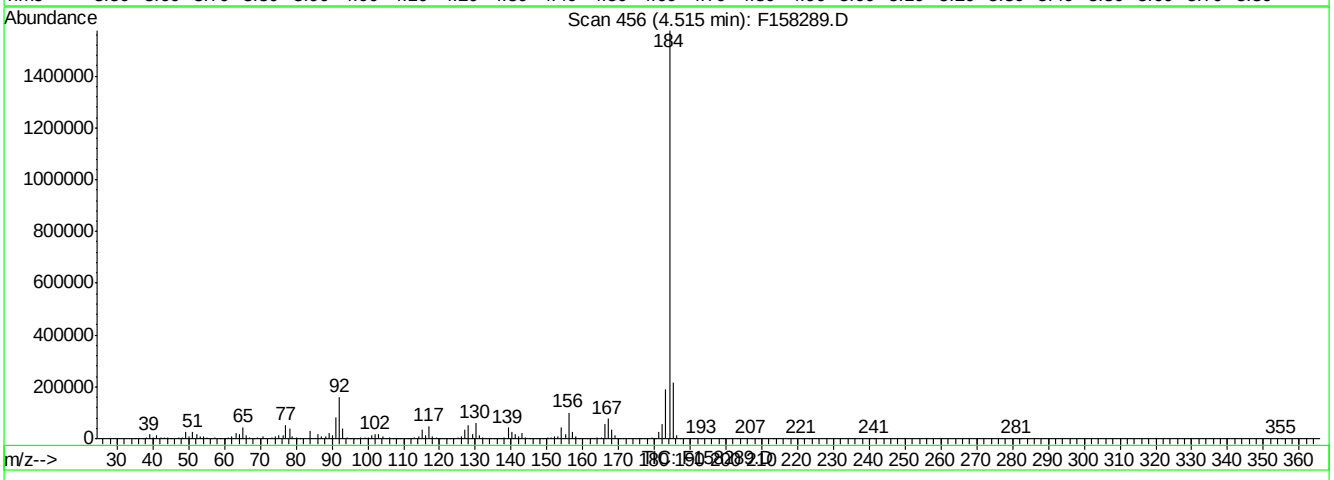
F158289.D DFTPPF.M Fri Jun 24 07:52:32 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158289.D Vial: 1
Acq On : 24 Jun 2016 7:40 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 7:46 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)

4.52min 77.67ppb

response 1455059

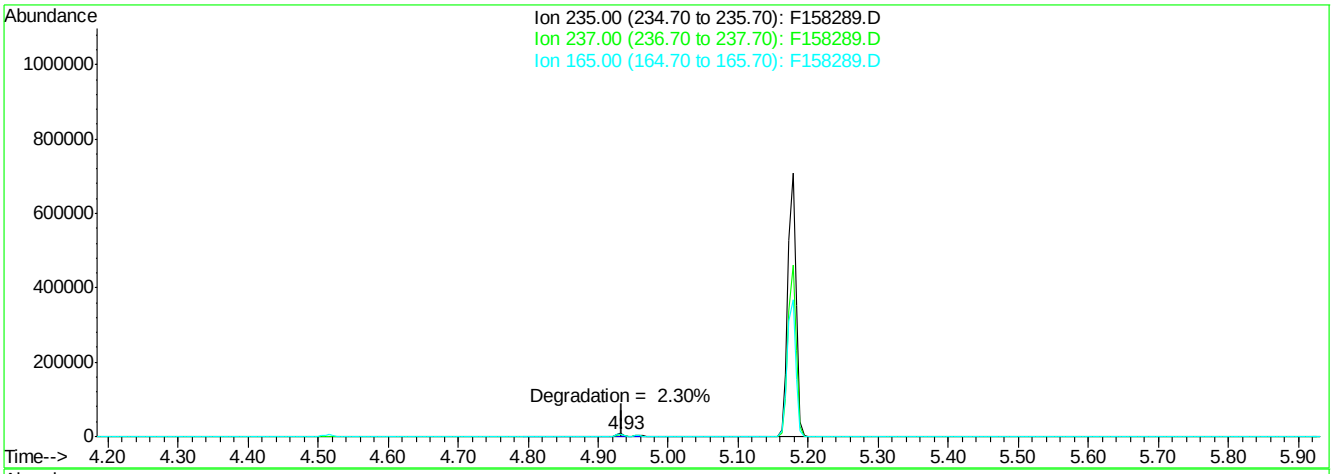
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	12.00
185.00	16.20	13.75
0.00	0.00	0.00

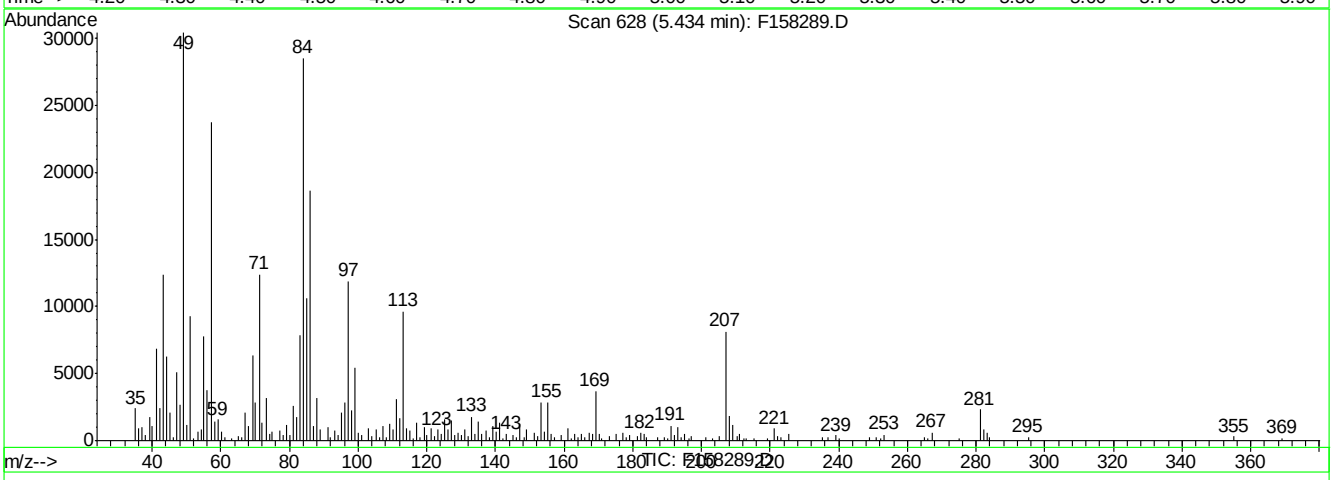
F158289.D DFTPPF.M Fri Jun 24 07:52:38 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158289.D Vial: 1
Acq On : 24 Jun 2016 7:40 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 24 7:46 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

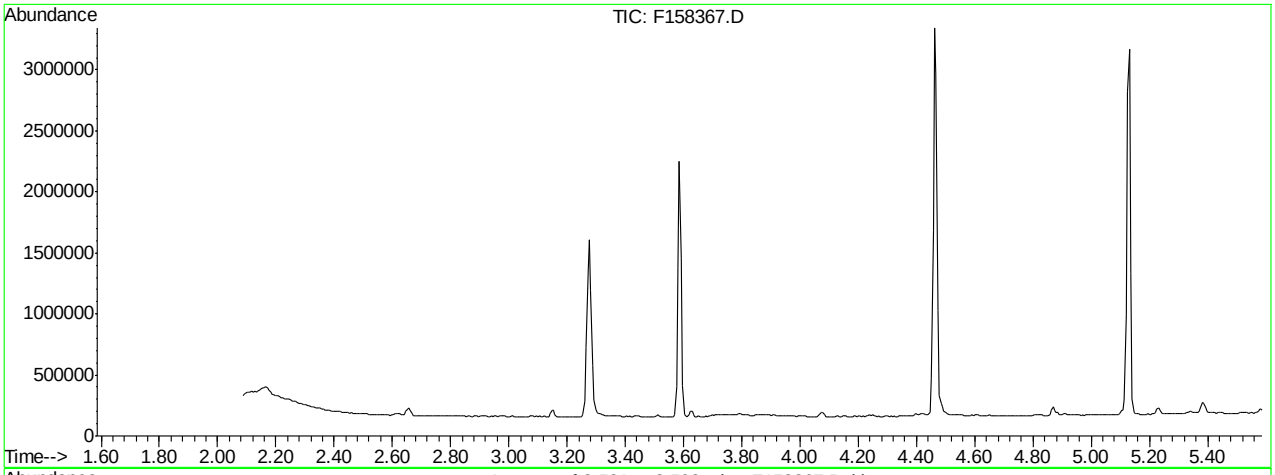
response 0

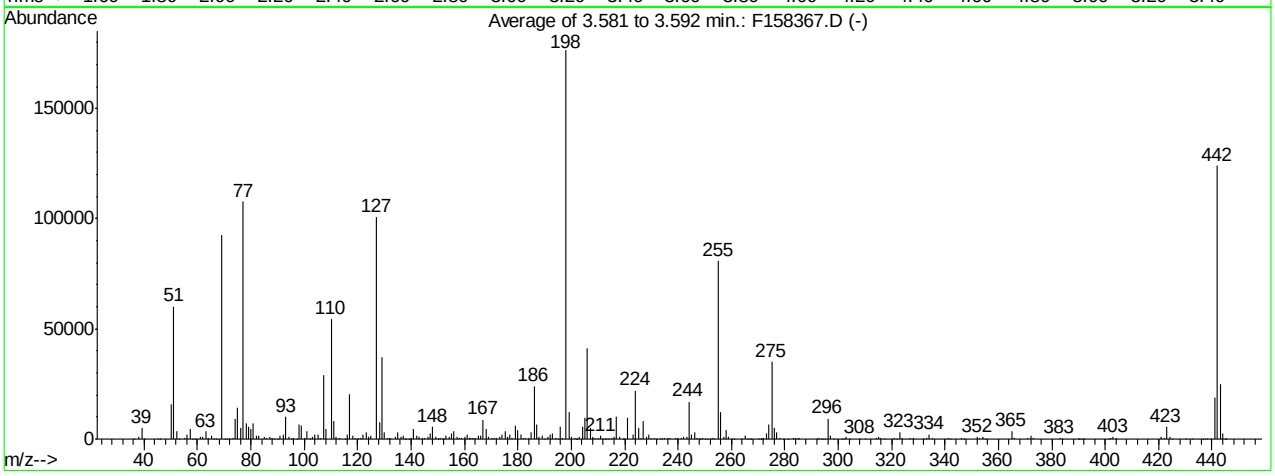
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F158289.D DFTPPF.M Fri Jun 24 07:52:46 2016 RT1

DFTPP

```
Data File : C:\MSDCHEM\1\DATA\EF6666\F158367.D          Vial: 1
Acq On    : 27 Jun 2016   7:23 am                   Operator: brittanp
Sample    : dftpp                                   Inst    : MSF
Misc      : op93756,ef6666,1000,,,1,1               Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title     : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
```





AutoFind: Scans 281, 282, 283; 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	34.1	60147	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.5	92520	PASS
70	69	0.00	2	0.3	266	PASS
127	198	40	60	57.2	100861	PASS
197	198	0.00	1	0.2	359	PASS
198	198	100	100	100.0	176362	PASS
199	198	5	9	7.0	12263	PASS
275	198	10	30	19.8	34880	PASS
365	198	1	100	2.1	3771	PASS
441	443	0.10	100	74.1	18677	PASS
442	198	40	100	70.3	123898	PASS
443	442	17	23	20.3	25190	PASS

F158367.D DFTPPF.M Mon Jun 27 07:32:14 2016 RT1

Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	135	56.10	1912	69.10	92520	80.05	4565
38.10	935	57.10	4795	70.10	266	81.00	7017
39.10	4935	58.00	243	71.10	36	82.00	1752
40.10	222	59.05	115	72.10	29	83.05	1523
45.00	85	61.05	881	73.10	385	85.10	1251
46.10	54	62.05	1040	74.10	9068	86.00	434
50.05	16043	63.10	3360	75.05	14252	87.05	899
51.10	60147	64.15	534	76.10	5051	88.00	335
52.10	3358	65.10	1570	77.05	107627	88.95	85
53.05	180	66.00	117	78.10	6927	90.10	52
55.10	301	67.10	193	79.05	5792	91.05	1755

Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	1893	103.05	1207	116.05	1844	128.10	7898
93.05	10082	104.10	2173	117.05	20448	128.95	37317
94.05	805	105.10	2121	118.05	1653	130.05	3132
95.10	178	106.05	419	119.00	313	131.05	695
96.05	595	107.10	28984	120.10	404	131.90	111
97.10	9	108.05	4667	121.05	288	132.15	343
98.05	6842	110.05	54442	122.00	1895	134.00	867
99.05	6045	111.10	8148	123.05	2899	135.10	2870
100.05	611	112.05	1125	123.95	1182	136.05	1223
101.05	3822	113.10	476	125.05	1333	137.05	1567
102.05	302	115.05	200	127.10	100861	137.90	112

Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.10	268	149.05	1088	158.05	704	168.10	4648
139.05	140	150.00	211	159.10	640	169.05	906
140.00	520	150.20	84	160.05	1236	170.05	345
141.05	4583	151.10	718	161.10	2146	171.00	482
142.05	1587	151.90	269	161.85	396	172.00	731
143.00	1182	152.10	191	162.10	322	173.05	968
144.05	276	153.05	1533	163.10	303	174.05	1923
145.05	414	154.10	1124	164.05	273	175.10	3345
146.10	987	155.10	2793	165.00	1448	176.10	1061
147.00	2312	156.10	3576	166.10	1389	177.05	1830
148.00	5417	157.05	815	167.05	8676	178.00	642

Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	6308	190.10	243	201.30	633	211.00	1502
180.05	4287	191.05	853	201.60	241	211.90	89
181.05	2010	192.05	1995	202.20	140	212.80	54
182.10	327	193.05	2366	203.05	1152	213.20	104
183.00	285	194.15	414	204.10	5765	214.00	60
184.00	492	195.20	133	205.10	9752	215.05	450
185.10	3027	196.05	5828	206.10	41037	216.15	896
186.10	23920	196.80	359	207.05	5317	217.00	10068
187.10	6657	198.00	176362	208.10	1246	218.00	1141
188.05	832	199.00	12263	209.05	528	219.15	233
189.00	1308	200.05	909	210.10	437	219.80	56

Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.10	9833	233.05	208	245.10	2297	255.10	80802
223.05	2289	234.00	566	246.05	2857	256.05	12158
224.10	21975	235.10	652	247.05	604	257.05	979
225.10	5230	236.00	443	248.10	70	258.05	4243

226.10	572	237.05	603	248.30	77	259.00	833
227.10	8359	239.05	348	249.05	548	260.10	52
228.05	1134	240.05	309	250.00	111	260.90	125
229.05	2007	241.05	528	250.80	167	264.00	254
230.05	277	242.05	1066	252.05	250	265.00	1710
231.10	775	243.10	1110	253.00	285	265.90	240
232.10	161	244.10	16942	253.20	240	266.90	67

Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
267.10	61	277.95	543	294.90	158	315.00	1061
270.20	77	279.20	60	296.05	9205	316.00	677
270.90	64	281.05	238	297.05	1317	317.00	87
271.10	127	283.00	306	298.10	64	321.05	340
271.80	59	284.05	355	301.05	113	321.95	151
272.05	290	284.90	104	302.10	96	323.05	3197
273.05	2344	285.10	382	303.05	1173	324.05	616
274.05	6449	292.10	137	304.00	223	326.95	535
275.10	34880	293.00	711	308.10	90	328.10	282
276.10	4957	293.70	84	310.00	79	331.95	183
277.05	2930	293.95	144	314.05	547	333.05	336

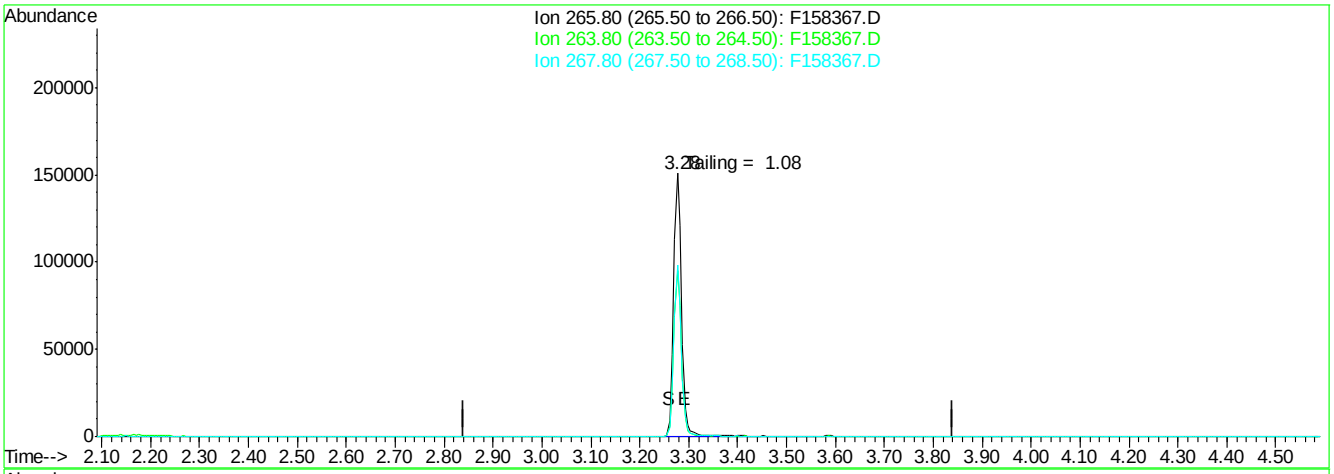
Average of 3.581 to 3.592 min.: F158367.D
dftpp
Modified:subtracted

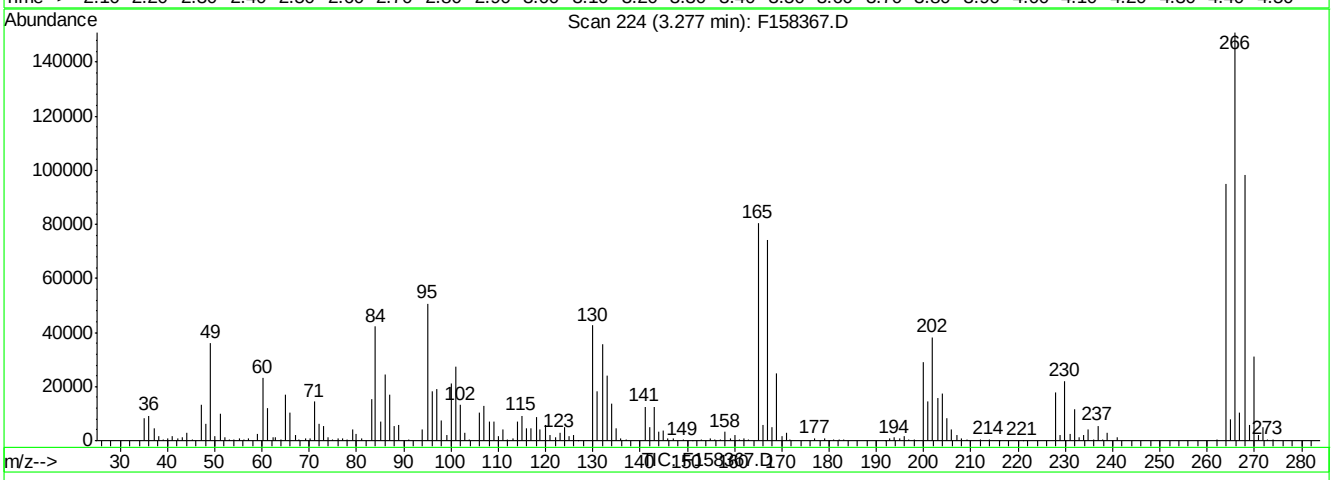
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
334.05	2050	366.00	514	402.00	637	437.20	51
335.10	509	371.00	300	403.00	947	438.20	77
341.05	355	372.05	1634	404.05	277	439.50	105
342.10	122	373.05	440	421.00	913	441.10	18677
346.00	775	383.00	453	422.05	755	442.05	123898
347.20	56	384.00	76	423.00	5556	443.10	25190
352.10	785	389.90	113	424.05	1266	444.05	2485
353.00	731	390.10	91	425.05	135	444.90	69
354.10	1007	390.90	72	430.00	83	445.10	90
355.05	231	392.00	53	432.60	50		
365.00	3771	401.00	60	436.45	147		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158367.D Vial: 1
Acq On : 27 Jun 2016 7:23 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 7:29 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)

3.28min 91.63ppb

response 170335

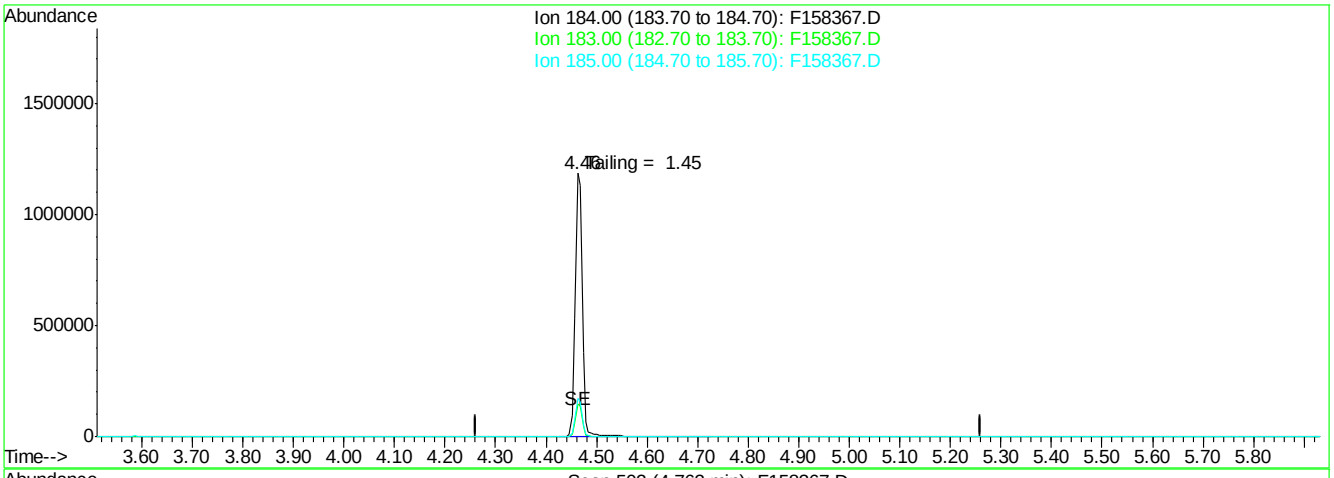
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	62.99
267.80	64.80	65.03
0.00	0.00	0.00

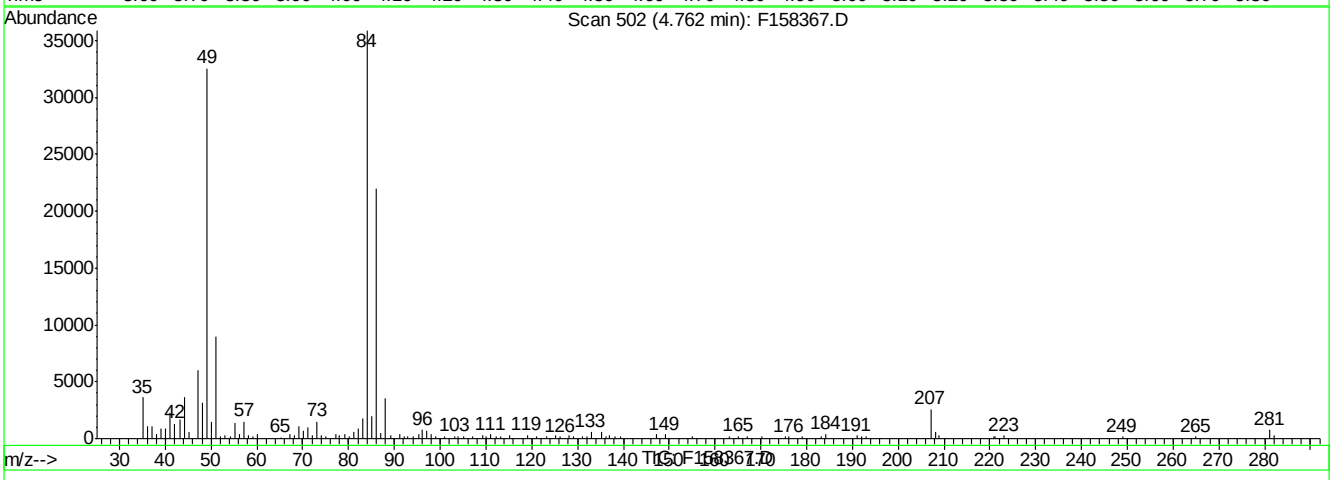
F158367.D DFTPPF.M Mon Jun 27 07:31:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158367.D Vial: 1
Acq On : 27 Jun 2016 7:23 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 7:29 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)

4.76min 0.00ppb

response 0

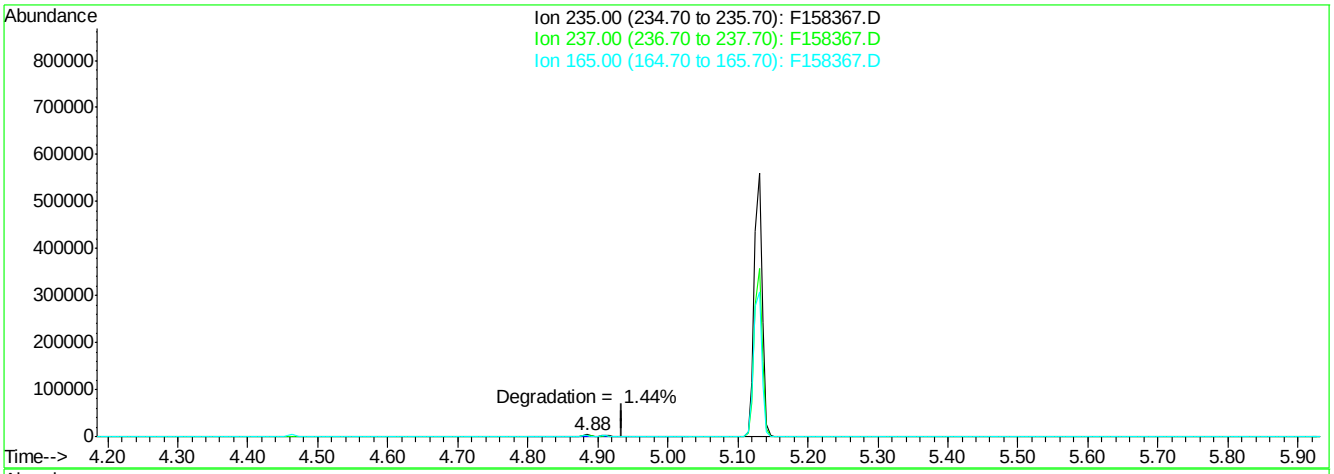
Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

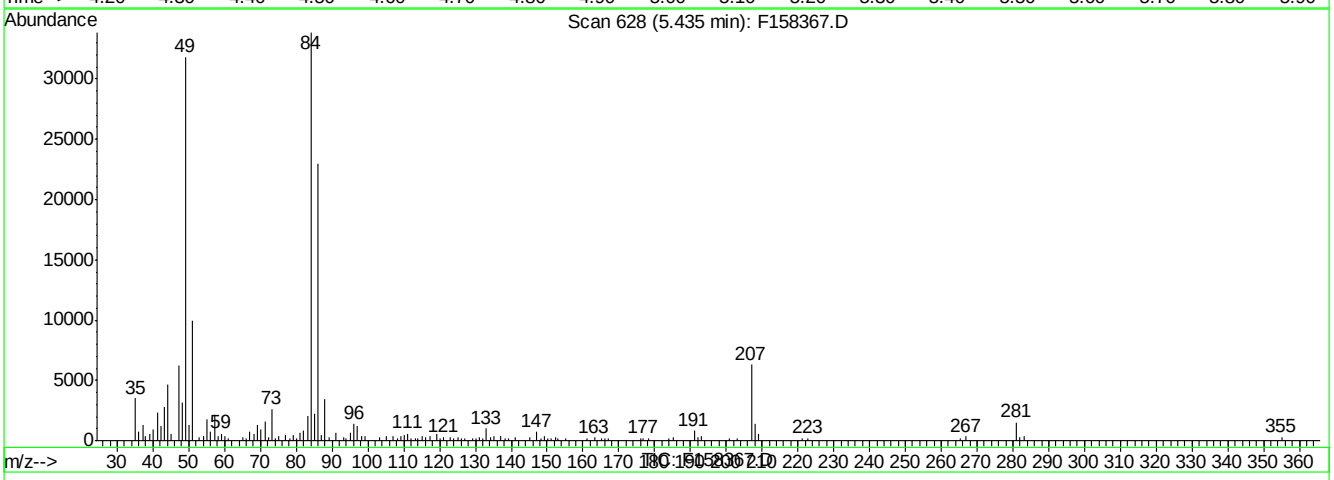
F158367.D DFTPPF.M Mon Jun 27 07:32:00 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158367.D Vial: 1
Acq On : 27 Jun 2016 7:23 am Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 7:29 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

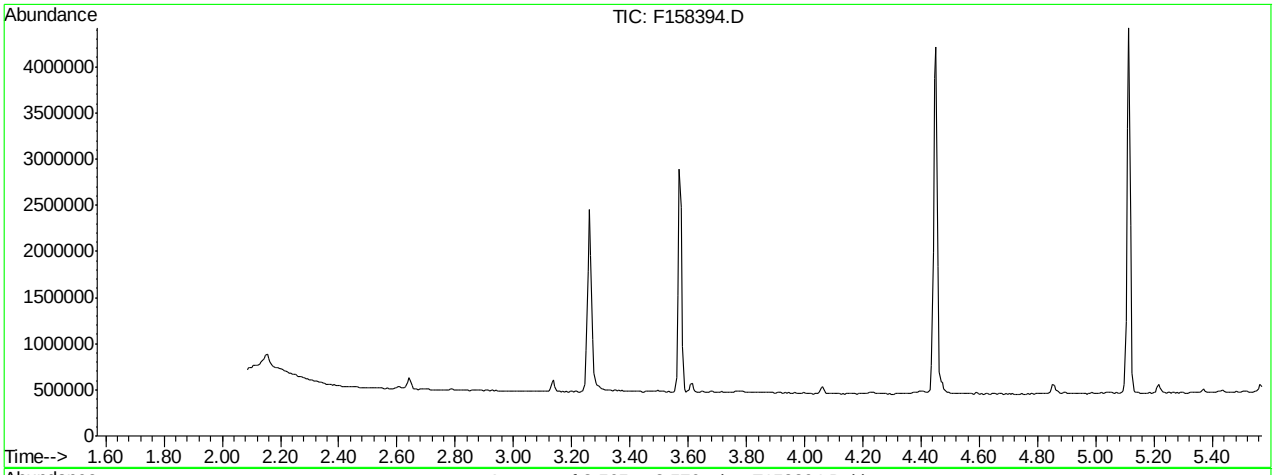
response 0

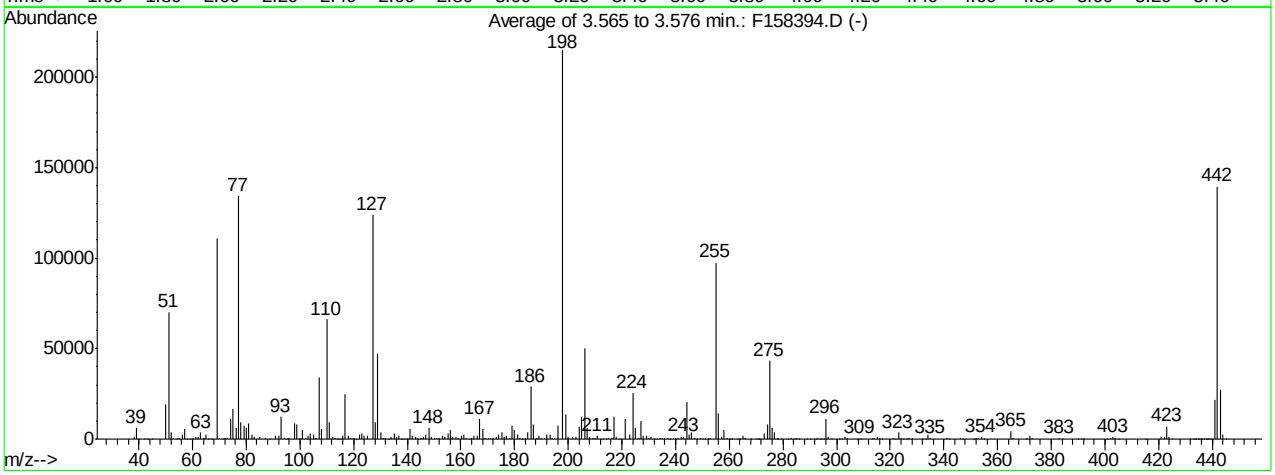
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F158367.D DFTPPF.M Mon Jun 27 07:32:10 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6667\F158394.D Vial: 1
Acq On : 27 Jun 2016 10:59 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6667 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 278, 279, 280; Background Corrected with Scan 273

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.6	70096	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.7	110987	PASS
70	69	0.00	2	0.5	605	PASS
127	198	40	60	57.7	123786	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	214714	PASS
199	198	5	9	6.5	13930	PASS
275	198	10	30	20.1	43128	PASS
365	198	1	100	2.0	4374	PASS
441	443	0.10	100	80.0	21828	PASS
442	198	40	100	65.0	139613	PASS
443	442	17	23	19.5	27290	PASS

F158394.D DFTPPF.M Tue Jun 28 09:34:56 2016 RT1

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.10	971	55.10	510	66.00	122	78.05	9017
39.10	6124	56.10	2541	67.10	138	79.10	7207
40.05	118	57.10	5787	69.00	110987	80.05	6140
42.10	19	58.05	307	70.05	605	81.05	8586
43.10	24	59.05	64	71.10	111	82.00	2241
45.10	180	60.00	123	72.10	511	83.05	1333
50.10	19069	61.05	1051	73.10	464	85.00	1309
51.10	70096	62.10	1451	74.05	11214	87.00	939
52.10	3643	63.10	3676	75.10	17010	89.00	170
53.05	390	64.05	667	76.10	6183	91.05	1665
54.15	147	65.05	2328	77.05	134126	92.10	2078

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	12231	105.10	2531	116.05	2064	128.10	9607
94.10	916	106.10	487	117.00	24636	129.00	46900
95.05	282	107.05	34269	118.05	2017	130.00	3898
96.00	531	108.10	5542	119.05	462	131.00	689
98.00	8996	110.05	66117	120.05	587	132.05	454
99.05	7777	111.05	9574	121.05	234	133.05	143
100.05	767	112.05	1363	122.05	2290	134.00	1103
101.05	4786	112.95	408	123.00	3086	135.00	3389
102.10	361	113.80	50	124.00	1592	136.05	1533
103.10	1675	114.10	54	125.10	1578	137.00	1791
104.05	3036	115.10	147	127.10	123786	137.80	319

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.10	174	148.00	5941	159.05	885	170.10	553
139.05	322	149.05	1456	160.05	1885	171.10	353
140.05	629	150.15	397	161.10	2391	172.00	901
141.00	5482	151.05	770	162.05	778	173.05	1398
142.05	1790	152.00	536	163.10	268	174.05	2400
143.00	1356	153.05	1784	164.05	366	175.10	4040
144.10	427	154.05	1406	165.00	1909	176.10	1424
144.80	50	155.10	2935	166.05	1951	177.05	1711
145.10	372	156.10	4816	167.05	10940	178.05	424
146.00	1053	157.00	1087	168.10	5395	179.00	7344
147.05	2708	158.05	1095	169.05	930	180.10	5203

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
181.05	2567	191.00	642	204.10	6974	215.05	574
182.05	536	192.05	2286	205.10	12113	216.10	704
182.70	123	193.10	2579	206.10	50184	217.00	12148
182.95	217	194.00	569	207.10	6022	218.00	1515
184.05	637	195.10	584	208.05	1346	219.00	145
185.10	3659	196.10	7180	209.05	628	221.10	11395
186.10	29035	198.00	214714	210.15	546	223.05	2671
187.05	8042	199.00	13930	210.95	1776	224.10	25499
188.15	807	200.00	1060	212.00	110	225.10	6408
189.05	1573	201.50	1388	213.10	118	226.10	464
190.05	500	203.05	1486	214.00	58	227.10	10186

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
228.05	1573	239.05	523	250.00	101	260.20	136
229.05	2178	240.00	342	251.05	323	260.90	64
230.05	463	241.05	610	252.00	100	261.10	104
231.05	970	242.05	1356	252.30	95	263.10	58

232.05	144	243.05	1534	253.15	622	263.80	92
233.05	219	244.10	20569	255.10	97352	264.05	165
234.05	741	245.10	2746	256.10	14528	265.00	2098
235.05	801	246.00	3608	257.00	1089	266.05	479
236.05	615	247.05	764	258.05	4815	268.10	61
237.05	755	248.00	152	259.10	791	270.00	164
238.15	130	249.05	659	259.90	54	270.90	61

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.10	104	283.10	442	295.10	165	313.00	60
272.00	194	284.00	213	296.00	11227	314.00	490
273.05	3176	284.90	89	297.05	1500	315.05	1296
274.10	7942	285.05	680	298.10	59	316.10	678
275.10	43128	286.10	84	301.05	165	317.00	80
276.10	5921	289.00	99	302.05	211	321.10	416
277.00	3445	290.10	113	303.10	1340	321.95	210
277.90	90	292.10	62	304.05	439	323.10	3672
278.05	488	293.05	897	307.90	52	324.05	720
279.20	62	293.90	81	308.10	56	324.90	71
282.00	87	294.20	59	308.90	62	326.00	86

Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
327.00	542	351.95	937	384.10	134	422.00	1088
328.00	369	353.05	743	389.95	211	423.05	6920
331.95	331	354.00	1147	391.10	221	424.05	1398
333.15	255	355.10	195	391.95	130	425.10	110
334.05	2389	365.00	4374	401.00	71	431.90	65
335.00	567	366.00	622	402.00	701	433.00	55
341.05	498	370.80	55	403.00	1167	433.60	69
342.10	156	371.00	140	404.00	415	433.90	69
346.05	755	372.05	2062	405.00	59	434.60	80
347.00	68	373.00	547	415.00	57	435.20	133
351.00	56	383.05	419	421.05	1076	435.40	59

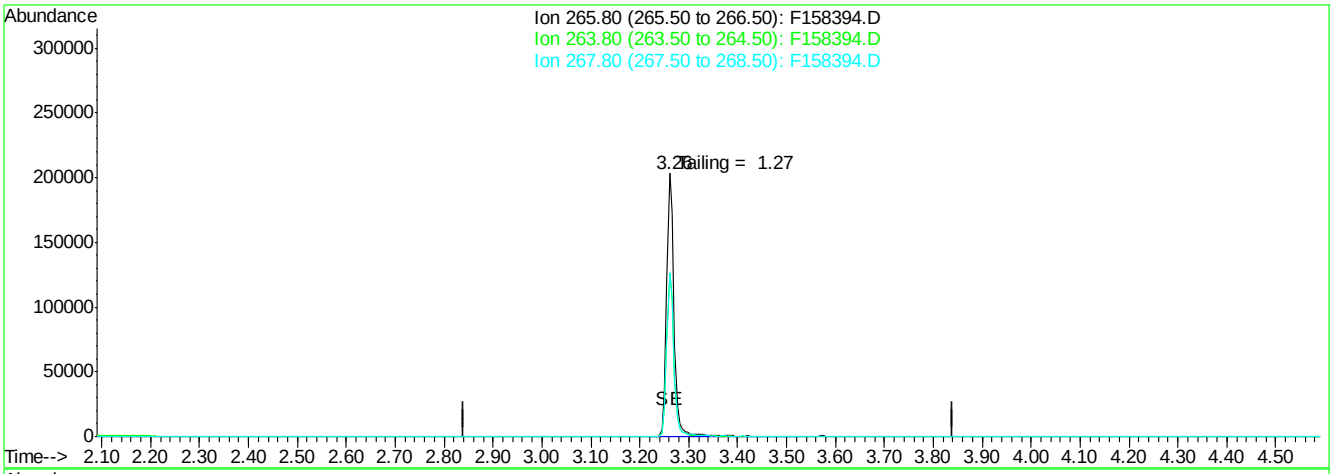
Average of 3.565 to 3.576 min.: F158394.D
dftpp
Modified:subtracted

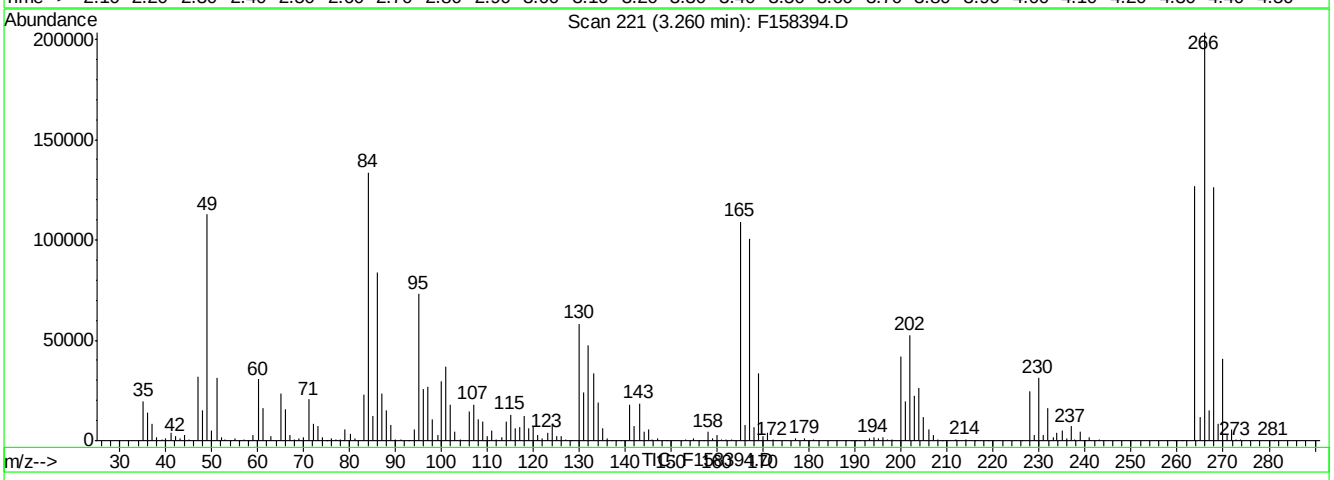
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
435.80	59	444.05	2545				
436.10	70	445.00	126				
436.90	60						
437.60	115						
438.00	57						
438.60	90						
438.90	98						
439.60	50						
441.05	21828						
442.00	139613						
443.10	27290						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158394.D Vial: 1
Acq On : 27 Jun 2016 10:59 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 23:05 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)

3.26min 114.80ppb

response 213414

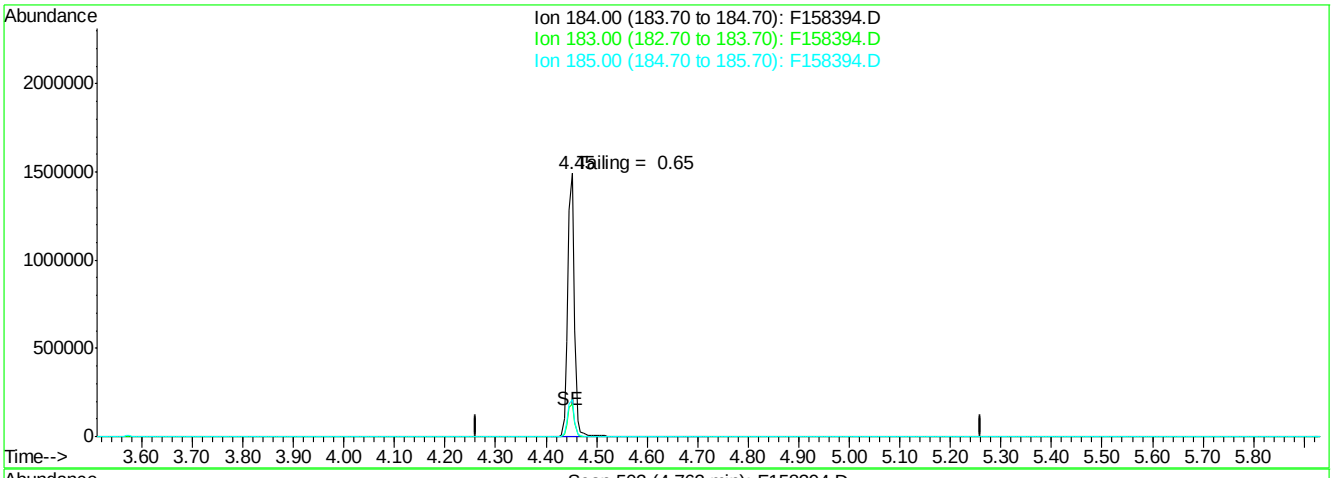
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	62.38
267.80	64.80	62.07
0.00	0.00	0.00

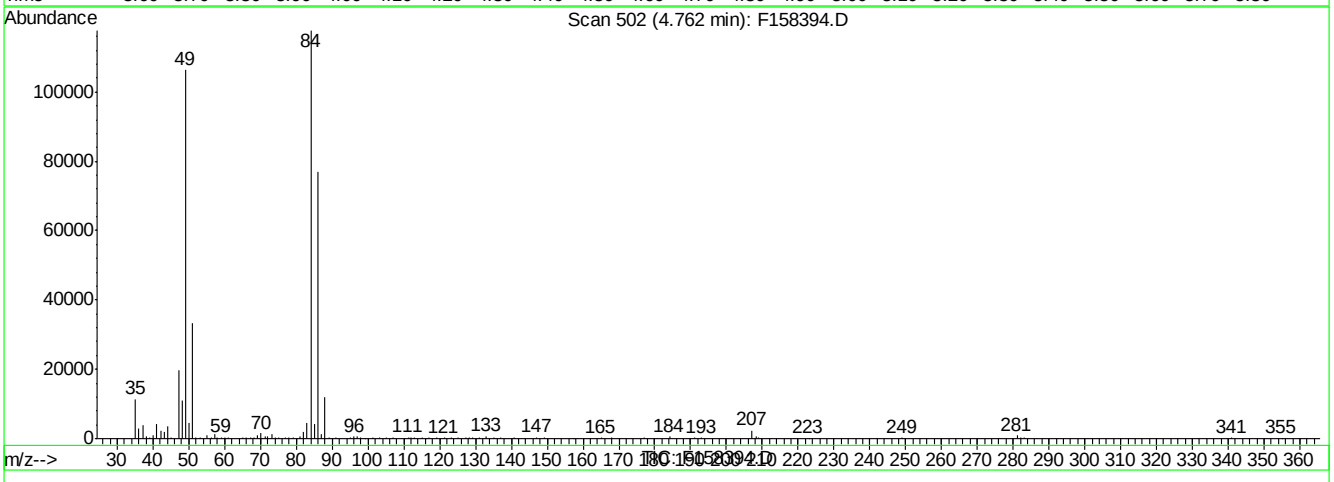
F158394.D DFTPPF.M Tue Jun 28 09:34:17 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158394.D Vial: 1
Acq On : 27 Jun 2016 10:59 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 23:05 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)

4.76min 0.00ppb

response 0

Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

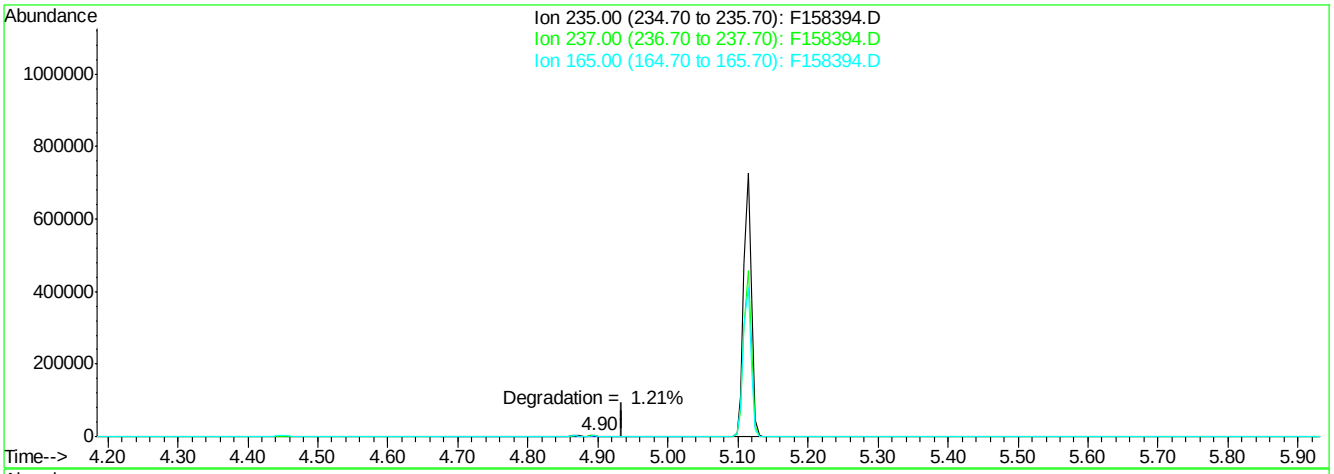
F158394.D DFTPPF.M Tue Jun 28 09:34:32 2016 RT1

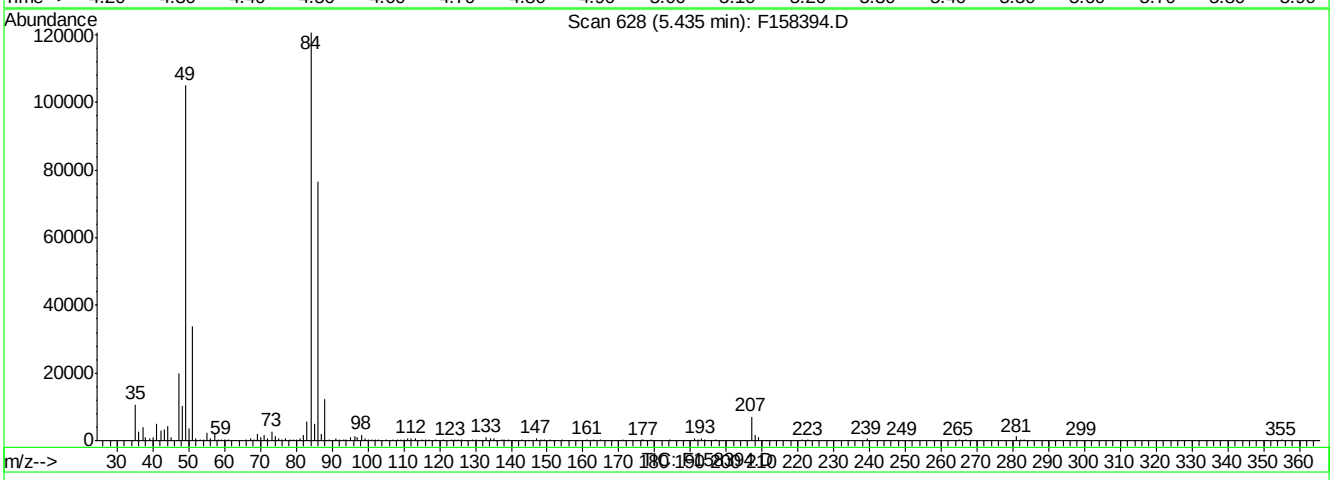
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158394.D Vial: 1
Acq On : 27 Jun 2016 10:59 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 27 23:05 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

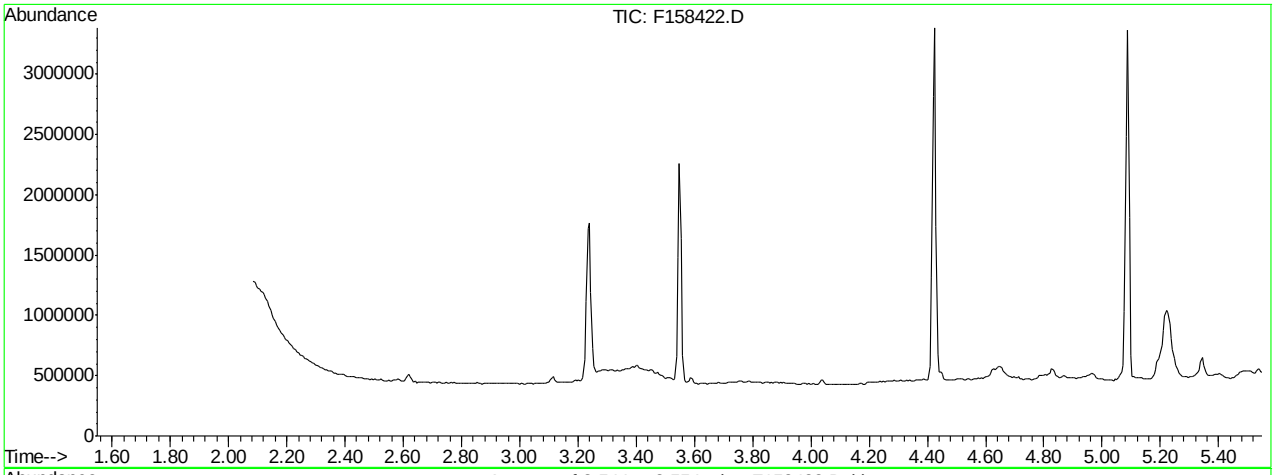
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

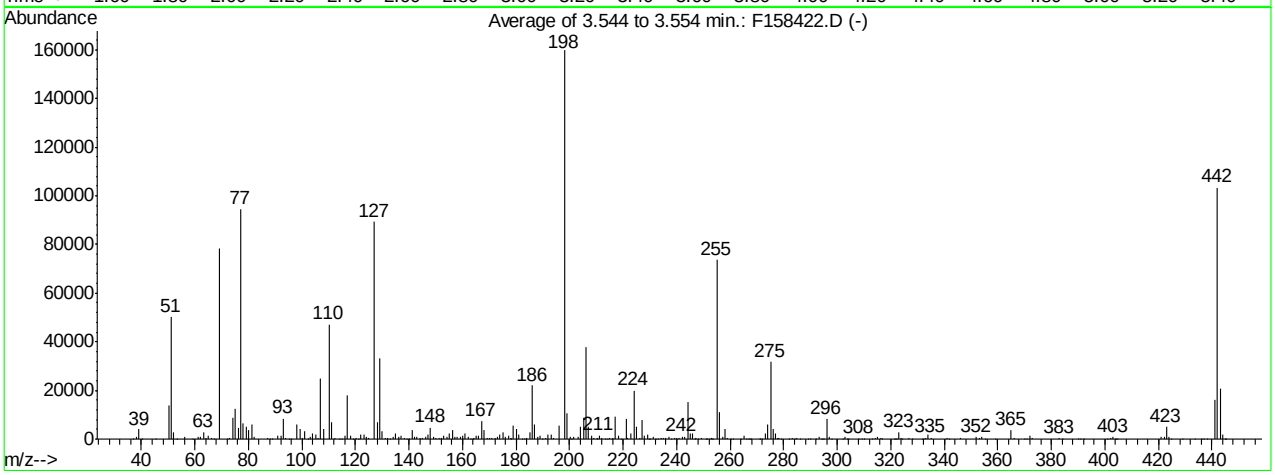
F158394.D DFTPPF.M Tue Jun 28 09:34:48 2016 RT1

SGS ACCUTEST JC22206

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6668\F158422.D Vial: 1
Acq On : 28 Jun 2016 12:26 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6668 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 274, 275, 276; Background Corrected with Scan 269

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.4	50109	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.0	78259	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.9	89274	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	159730	PASS
199	198	5	9	6.6	10622	PASS
275	198	10	30	19.8	31632	PASS
365	198	1	100	2.3	3708	PASS
441	443	0.10	100	77.0	15948	PASS
442	198	40	100	64.7	103344	PASS
443	442	17	23	20.0	20720	PASS

F158422.D DFTPPF.M Tue Jun 28 15:46:58 2016 RT1

Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	124	61.05	861	75.05	12600	91.10	1223
38.10	759	62.10	1052	76.10	4831	92.10	1564
39.10	3989	63.10	2885	77.05	94459	93.00	8506
40.10	85	64.15	401	78.10	6642	94.00	598
45.10	93	65.05	1419	79.10	4976	95.10	30
50.10	13991	66.10	326	80.00	3840	96.10	235
51.10	50109	67.10	9	81.10	5917	98.00	5965
52.10	2659	69.00	78259	82.05	1086	99.10	4364
53.10	203	72.05	72	87.00	644	100.05	454
56.10	871	73.05	331	88.00	122	101.00	3263
59.10	12	74.10	8610	89.00	180	102.05	215

Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
103.10	1034	116.10	1450	128.05	6830	139.10	90
104.00	2199	117.05	17929	129.00	33284	140.05	237
105.05	1679	118.00	1421	130.05	3107	141.05	3742
106.10	265	119.05	56	131.05	526	142.05	1123
107.05	24978	120.05	414	131.95	442	143.05	1113
108.10	4039	121.05	100	132.95	85	144.05	328
110.05	47194	122.05	1774	134.05	914	145.05	348
111.05	7134	123.05	1856	135.05	2467	146.05	792
112.10	695	124.05	1099	136.05	821	147.05	1728
114.00	80	125.05	486	137.05	1442	148.00	4751
115.00	42	127.10	89274	138.05	407	149.05	835

Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
150.10	434	161.05	2392	171.05	461	181.10	1743
151.10	512	162.05	720	172.00	707	182.10	103
152.00	392	163.05	84	173.05	942	183.00	162
153.05	1237	163.85	149	174.05	1700	184.10	320
154.10	745	164.20	293	175.10	3013	185.05	2699
155.10	2376	165.00	1417	176.10	1009	186.10	21992
156.10	3472	166.05	1437	177.05	1566	187.05	6197
157.05	967	167.00	7431	177.95	420	188.05	767
158.05	788	168.05	3713	178.20	134	189.10	1363
159.05	715	169.10	565	179.00	5433	189.95	174
160.05	1222	170.05	324	180.05	4097	191.10	615

Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
192.05	1714	205.10	8750	215.00	509	226.10	619
193.00	1893	206.10	37632	215.90	233	227.00	8057
194.05	575	207.10	4991	216.10	652	228.05	1330
196.00	5500	208.05	1536	217.00	9212	229.05	1683
198.00	159730	209.05	285	218.05	1353	229.70	52
199.00	10622	210.10	176	219.30	180	230.05	201
200.05	912	210.50	364	221.10	8338	231.10	770
200.80	105	211.05	1557	221.80	484	231.90	56
201.55	924	212.00	433	223.00	2096	233.00	117
203.05	1004	213.10	220	224.10	19945	234.05	596
204.10	5231	214.20	69	225.10	5158	235.05	611

Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
236.00	388	246.90	117	256.05	11255	267.80	50
237.05	742	247.10	481	257.10	820	270.90	85
238.10	59	248.05	129	258.00	4272	271.10	104
239.05	387	249.05	579	259.05	606	271.95	198

240.05	342	251.00	140	260.05	107	273.05	2427
241.00	519	251.30	50	261.10	142	274.00	6202
242.05	1028	252.20	75	263.90	132	275.05	31632
243.15	746	252.95	390	265.00	1467	276.05	4239
244.10	15412	253.20	194	265.95	106	277.05	2458
245.10	2188	253.60	138	267.00	121	277.90	278
246.05	2543	255.05	73637	267.40	51	278.10	271

Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
279.10	88	294.30	64	310.10	52	324.20	188
282.10	115	294.80	52	313.10	59	326.95	480
283.10	326	296.05	8234	314.05	503	327.95	179
284.05	227	297.05	1156	315.05	977	331.80	61
285.05	422	298.00	78	316.15	541	332.05	138
286.00	69	301.95	117	316.70	56	333.05	283
289.10	62	303.05	981	321.10	191	334.05	1721
290.00	56	303.90	170	321.90	104	335.00	472
291.90	52	304.10	151	322.20	112	341.10	363
293.05	728	308.10	110	323.00	2812	341.90	77
294.10	143	309.00	52	324.00	315	346.00	656

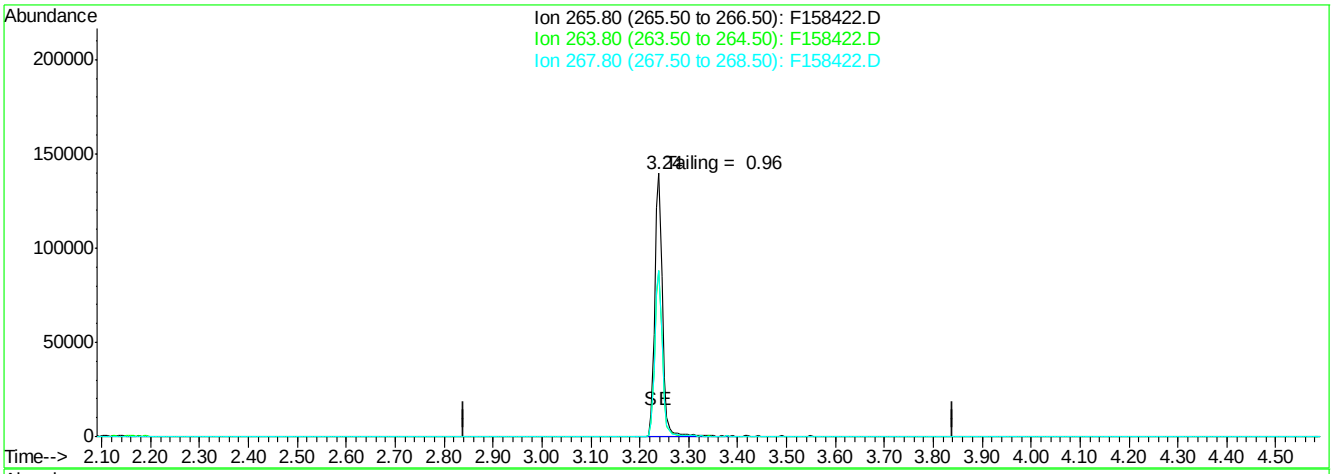
Average of 3.544 to 3.554 min.: F158422.D
dftpp
Modified:subtracted

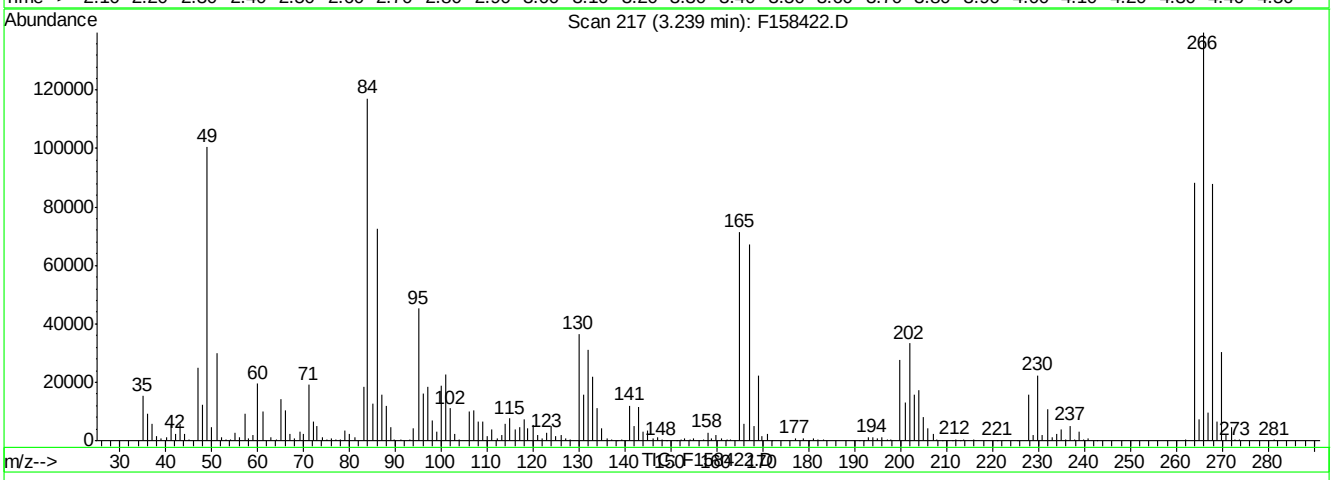
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.00	745	382.95	344	421.00	741	442.05	103344
353.05	594	384.05	135	422.10	796	443.10	20720
354.00	787	390.00	179	423.00	5034	444.05	1844
355.05	239	391.00	60	424.05	968	444.80	65
359.00	59	392.00	107	424.95	129	445.10	84
364.95	3708	400.90	56	428.90	71		
366.00	507	402.00	689	433.40	59		
369.80	50	403.00	816	435.90	77		
370.90	202	403.85	186	437.10	50		
372.05	1581	404.10	124	438.30	67		
373.00	357	404.80	53	441.00	15948		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158422.D Vial: 1
Acq On : 28 Jun 2016 12:26 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:32 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)

3.24min 81.47ppb

response 151441

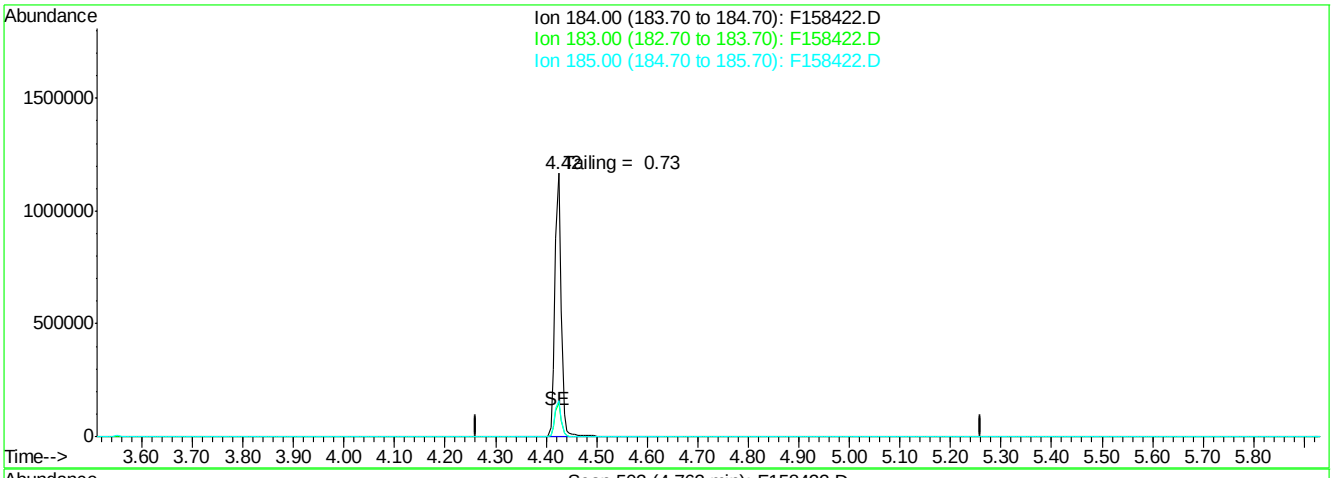
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	63.10
267.80	64.80	62.84
0.00	0.00	0.00

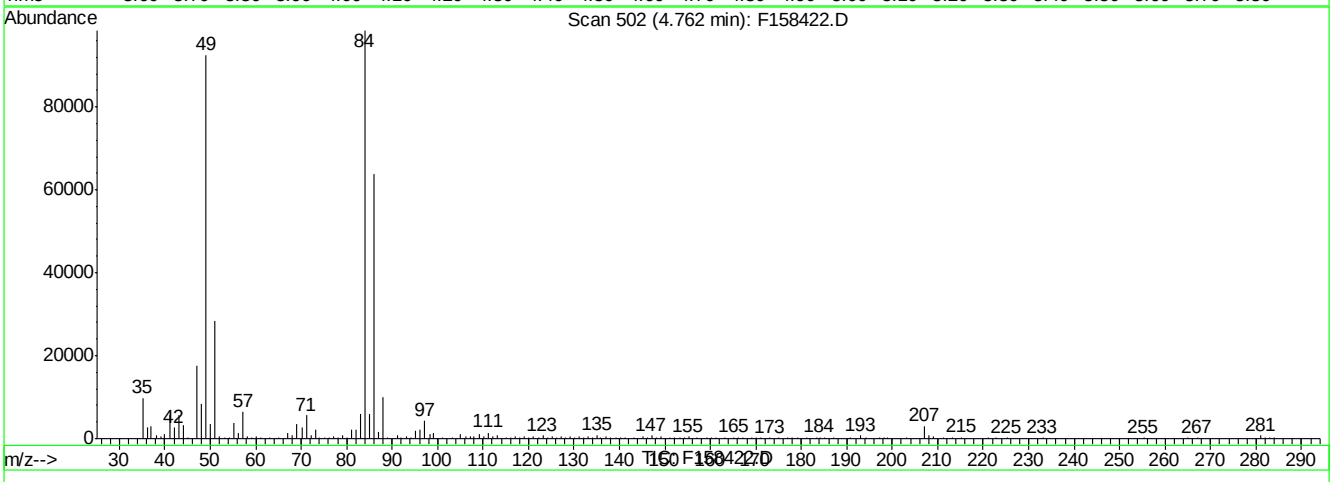
F158422.D DFTPPF.M Tue Jun 28 12:32:43 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158422.D Vial: 1
Acq On : 28 Jun 2016 12:26 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:32 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)

4.76min 0.00ppb

response 0

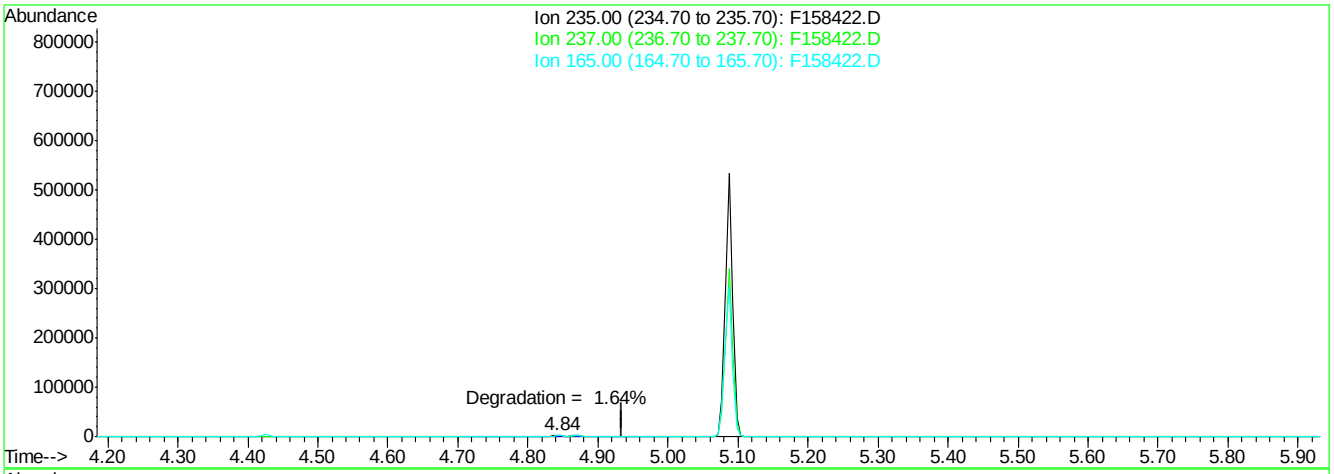
Ion	Exp%	Act%
184.00	100	0.00
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

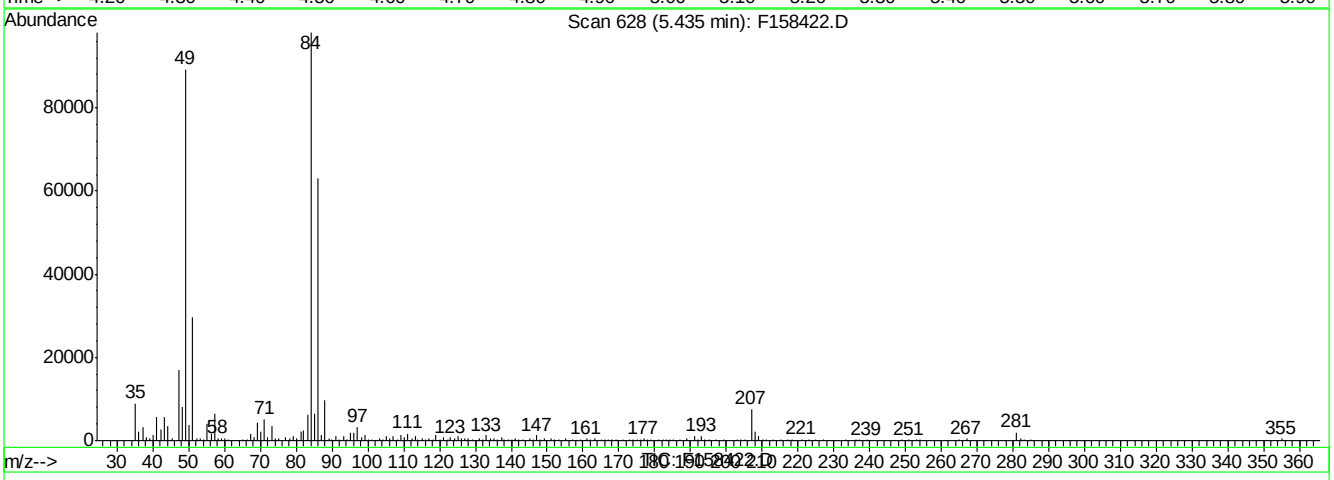
F158422.D DFTPPF.M Tue Jun 28 12:32:49 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158422.D Vial: 1
Acq On : 28 Jun 2016 12:26 pm Operator: brittanp
Sample : dftpp Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 12:32 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

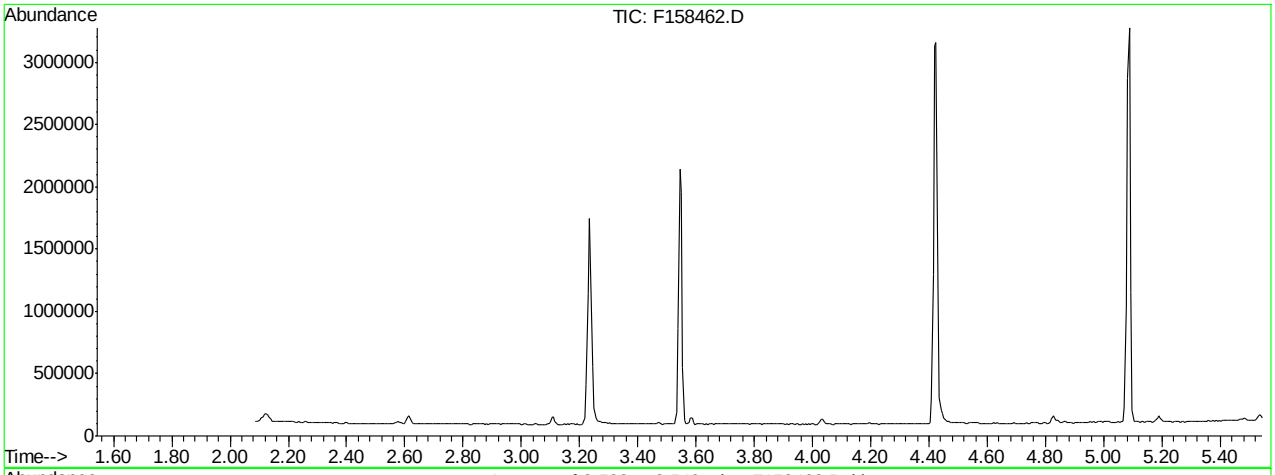
response 0

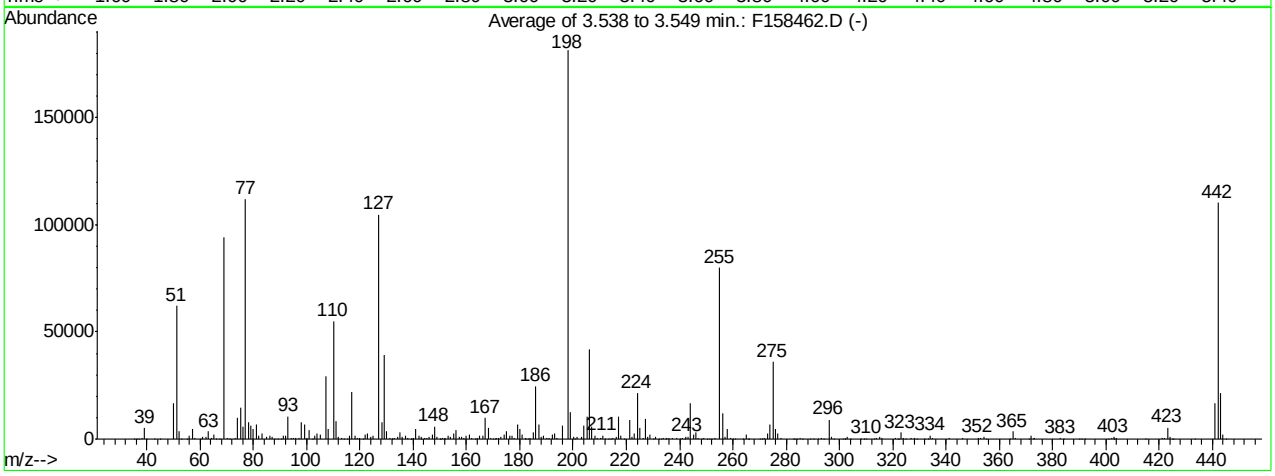
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F158422.D DFTPPF.M Tue Jun 28 12:32:55 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6670\F158462.D Vial: 1
Acq On : 29 Jun 2016 10:05 am Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6670 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 273, 274, 275; Background Corrected with Scan 268

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.3	62174	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.9	94183	PASS
70	69	0.00	2	0.4	380	PASS
127	198	40	60	57.8	104877	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	181344	PASS
199	198	5	9	6.9	12433	PASS
275	198	10	30	19.8	35922	PASS
365	198	1	100	1.9	3528	PASS
441	443	0.10	100	77.4	16579	PASS
442	198	40	100	60.7	110144	PASS
443	442	17	23	19.4	21418	PASS

F158462.D DFTPPF.M Wed Jun 29 10:20:23 2016 RT1

Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	8	53.10	117	66.20	137	79.05	6264
36.10	31	55.10	207	67.10	140	80.05	4660
37.10	127	56.10	1794	69.05	94183	81.05	6896
38.10	797	57.10	4960	70.05	380	82.00	1774
39.10	5097	58.05	298	71.15	234	83.10	2674
40.10	198	60.00	54	73.05	395	85.10	1158
43.00	150	61.15	1057	74.10	9774	86.00	1554
45.10	261	62.10	1095	75.10	14548	87.05	881
50.10	16753	63.10	3459	76.10	5713	88.00	240
51.10	62174	64.10	450	77.10	112095	89.05	130
52.10	3429	65.15	1988	78.10	7810	90.20	65

Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	1416	102.05	278	115.10	77	127.10	104877
92.10	1834	103.05	1405	116.05	1671	128.10	8090
93.00	10604	104.05	2647	117.00	21865	128.95	39074
94.05	787	105.05	2288	118.05	1521	130.05	3751
95.10	306	107.10	29480	119.05	298	131.05	800
96.05	723	108.10	4683	120.05	362	131.90	116
97.15	288	110.10	55061	121.30	94	132.20	242
98.05	7798	111.10	8560	122.05	1975	133.05	317
99.05	6763	112.05	1156	123.00	2800	134.05	1105
100.05	553	113.05	427	124.05	1322	135.05	3011
101.00	4027	114.00	59	125.05	1333	136.05	1274

Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.10	1642	146.05	969	155.05	2559	166.05	1436
138.00	326	147.05	2293	156.10	3979	167.05	9730
139.00	156	148.00	5884	157.10	938	168.10	5003
139.20	120	149.05	1215	158.05	873	169.00	754
140.05	621	149.95	232	159.00	713	169.95	277
141.00	4844	150.20	116	160.00	1599	170.70	72
142.05	1534	151.10	610	161.05	2345	171.00	470
142.90	201	151.75	370	162.00	687	171.95	756
143.10	1011	152.00	166	163.05	175	173.05	1040
144.10	293	153.05	1606	164.05	305	174.05	1910
145.05	425	154.05	1079	165.00	1709	175.10	3841

Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.05	1403	186.10	24715	199.00	12433	210.15	459
177.00	1587	187.10	6851	200.05	1111	211.05	1717
178.00	422	188.10	829	200.70	79	212.10	111
179.05	6791	189.00	1478	201.55	937	213.20	68
180.05	4515	190.10	291	203.10	1307	214.00	71
181.05	2158	191.10	734	204.10	6047	215.05	509
182.00	293	192.05	1955	205.10	10241	216.10	947
182.20	98	193.10	2390	206.10	41928	217.00	10327
182.90	221	194.05	517	207.05	5585	218.05	1449
184.00	517	196.05	6317	208.10	1437	218.95	201
185.10	3110	198.00	181344	209.05	535	221.10	8764

Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
222.05	925	233.05	131	243.05	1228	255.10	79952
223.05	2659	234.00	649	244.10	16658	256.10	12275
224.10	21649	234.90	69	245.10	2216	257.05	914
225.10	5340	235.05	570	246.05	3073	258.00	4649

226.15	593	236.05	412	247.05	562	259.05	719
227.05	9184	237.05	699	248.10	145	260.00	58
228.05	1229	239.10	300	249.05	698	260.90	81
229.00	1927	240.05	278	250.20	161	263.90	130
230.00	275	241.05	527	251.05	225	265.00	1863
231.05	873	241.90	122	251.80	183	265.70	54
232.10	92	242.10	997	253.05	497	265.95	134

Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.90	122	284.05	264	301.10	53	316.10	595
271.10	78	285.05	446	301.90	69	321.00	324
271.95	322	286.05	121	302.10	67	321.90	68
273.05	2594	288.90	58	303.05	1026	322.20	71
274.05	6756	290.10	56	304.15	238	323.10	3096
275.10	35922	292.05	183	307.90	63	324.10	552
276.10	4798	293.05	636	309.00	71	324.95	112
277.00	2831	294.00	235	310.10	82	327.00	616
278.05	536	296.00	9107	313.20	50	328.00	301
282.90	80	297.05	1168	314.00	357	329.00	52
283.05	254	298.00	148	315.00	971	332.00	192

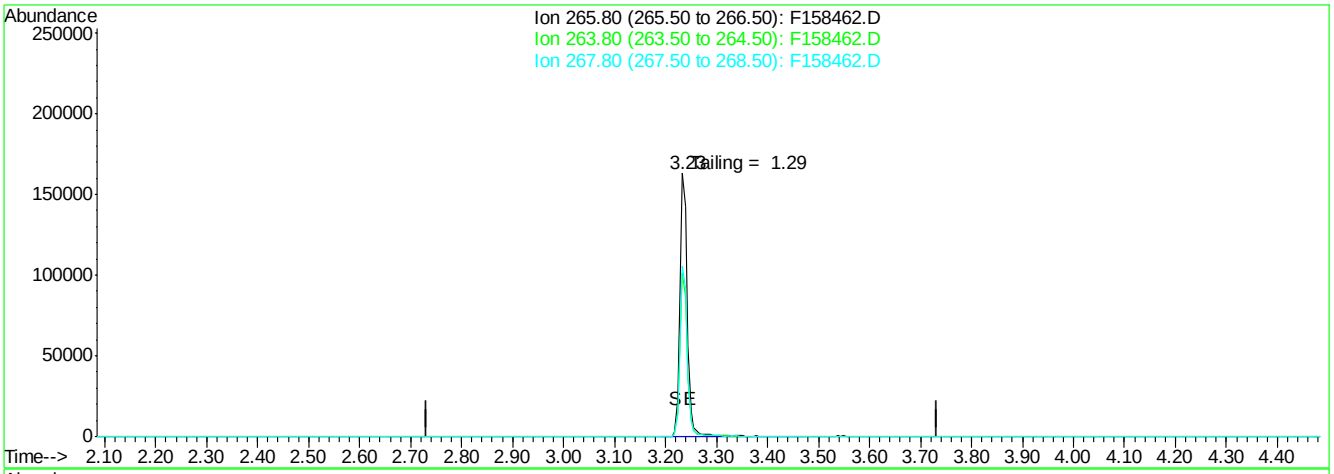
Average of 3.538 to 3.549 min.: F158462.D
dftpp
Modified:subtracted

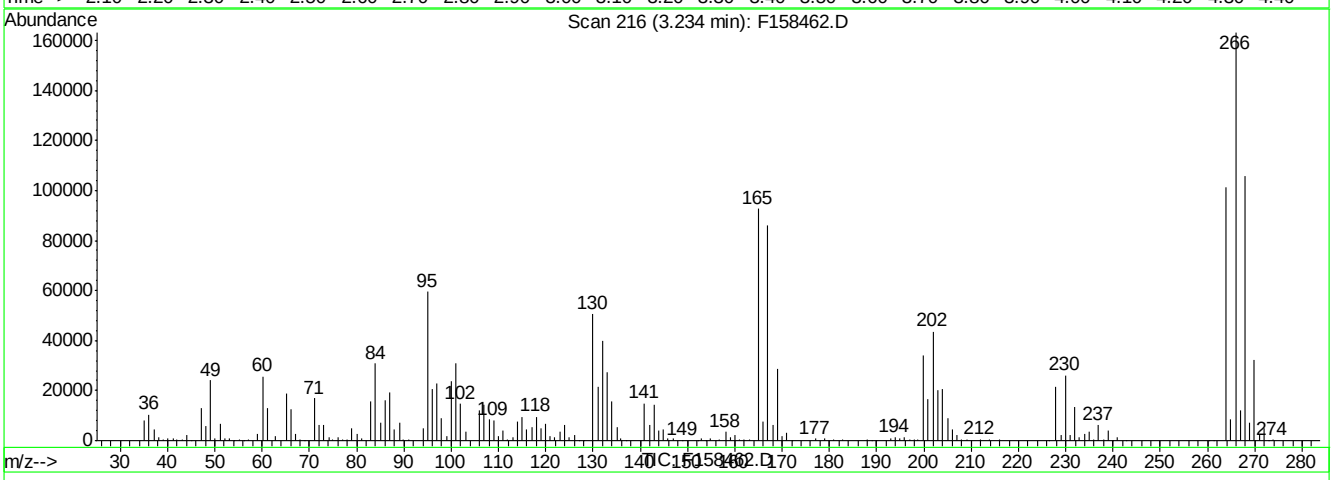
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
333.00	227	366.00	507	402.00	673	433.30	52
334.10	1802	370.95	263	402.90	60	441.05	16579
335.05	544	372.00	1478	403.05	815	442.10	110144
341.00	283	372.80	55	404.05	331	443.10	21418
346.10	658	373.10	442	415.00	56	444.05	2018
352.10	775	383.05	366	421.10	732	444.95	131
353.00	617	384.00	56	422.10	650		
354.05	906	390.00	225	423.10	5461		
355.10	262	391.00	234	424.00	1113		
364.10	55	392.10	58	424.90	97		
365.00	3528	401.00	50	425.30	57		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158462.D Vial: 1
Acq On : 29 Jun 2016 10:05 am Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 10:11 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 : Wed Jun 29 08:04:39 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

3.23min 88.96ppb

response 165380

Ion	Exp%	Act%
265.80	100	100
263.80	62.50	62.14
267.80	63.50	64.69
0.00	0.00	0.00

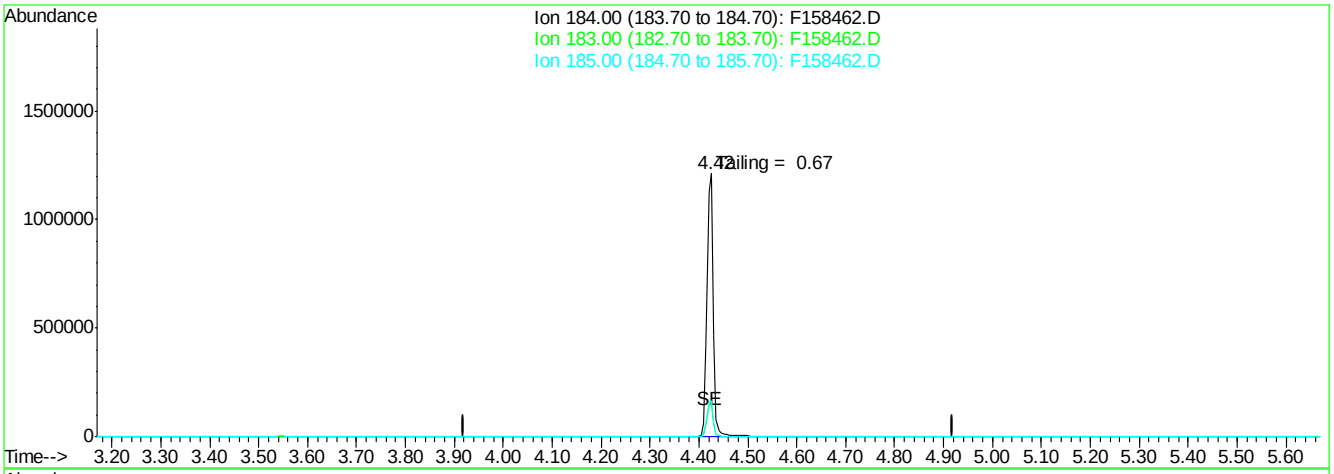
F158462.D DFTPPF.M Wed Jun 29 10:20:02 2016 RT1

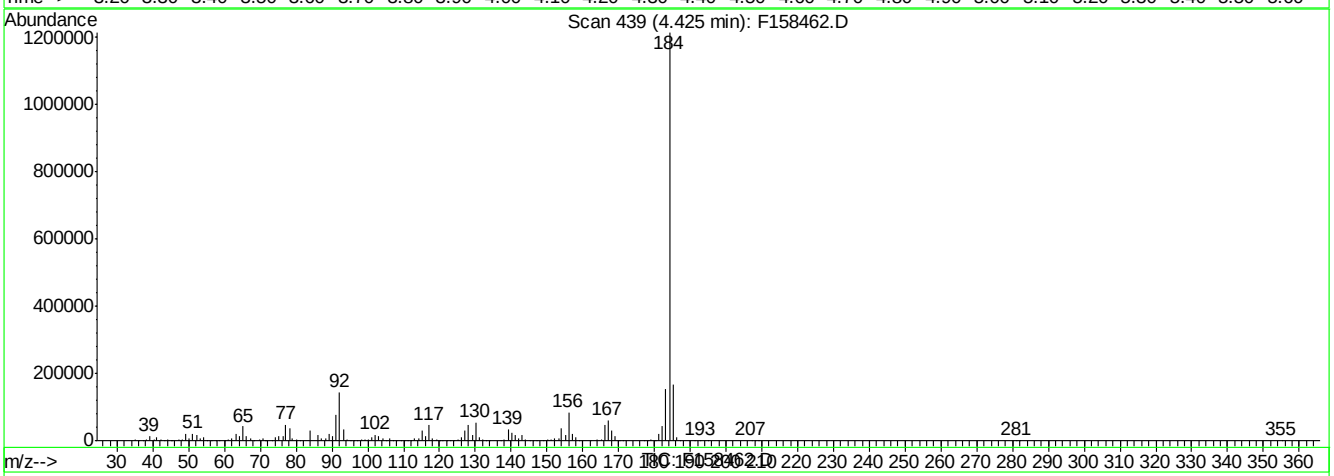
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158462.D Vial: 1
Acq On : 29 Jun 2016 10:05 am Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 10:11 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 : Wed Jun 29 08:04:39 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.42min 59.80ppb

response 1120284

Ion	Exp%	Act%
184.00	100	100
183.00	12.50	12.72
185.00	13.70	13.84
0.00	0.00	0.00

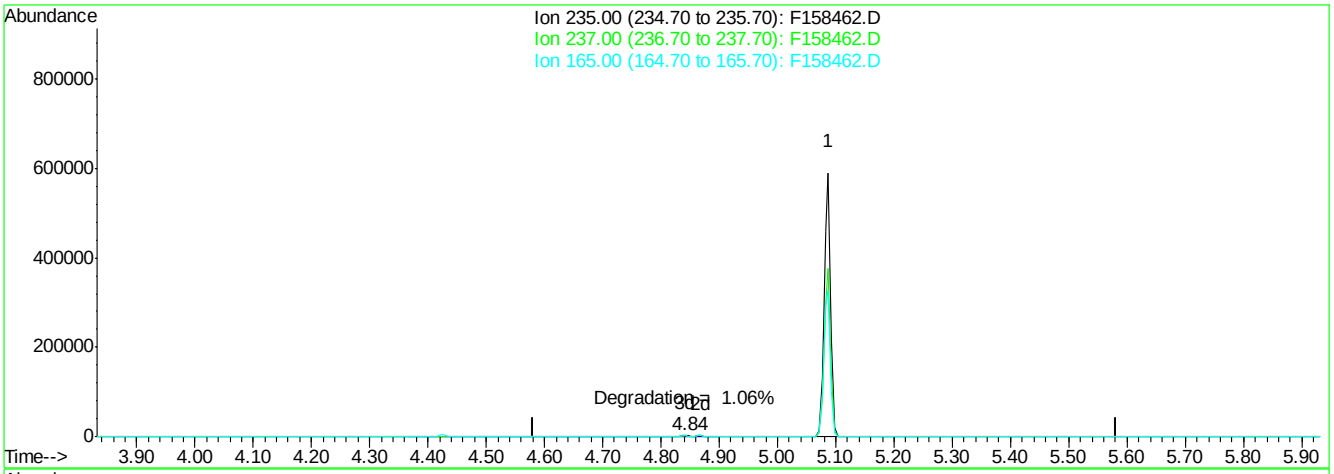
F158462.D DFTPPF.M Wed Jun 29 10:20:08 2016 RT1

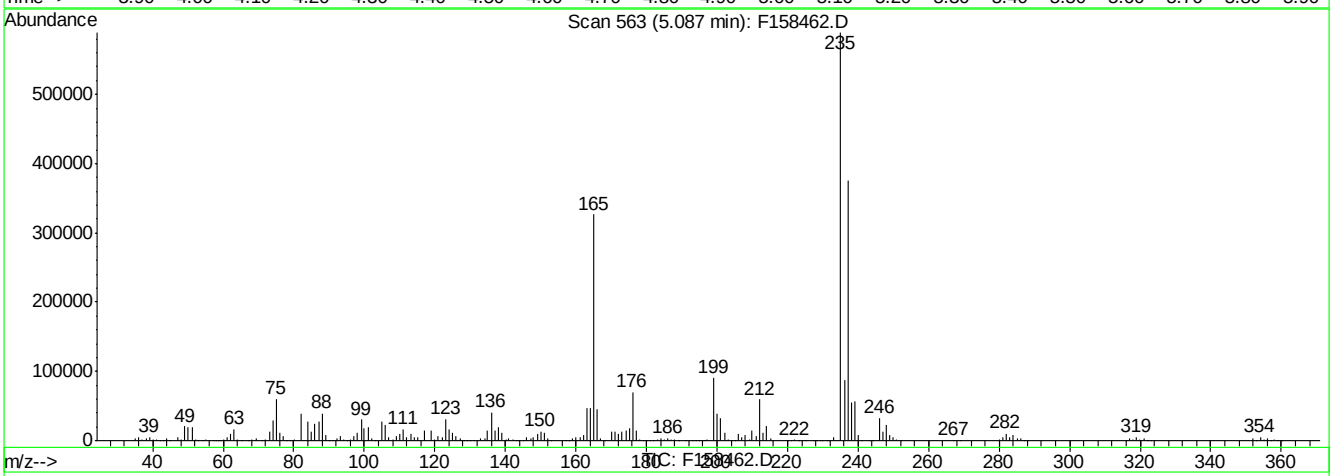
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158462.D Vial: 1
Acq On : 29 Jun 2016 10:05 am Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 10:11 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 : Wed Jun 29 08:04:39 2016
Response via : Single Level Calibration





(3) ddt (t)

5.09min 29.60ppb

response 459621

Ion	Exp%	Act%
235.00	100	100
237.00	63.40	63.92
165.00	57.10	58.68
0.00	0.00	0.00

F158462.D DFTPPF.M Wed Jun 29 10:20:15 2016 RT1

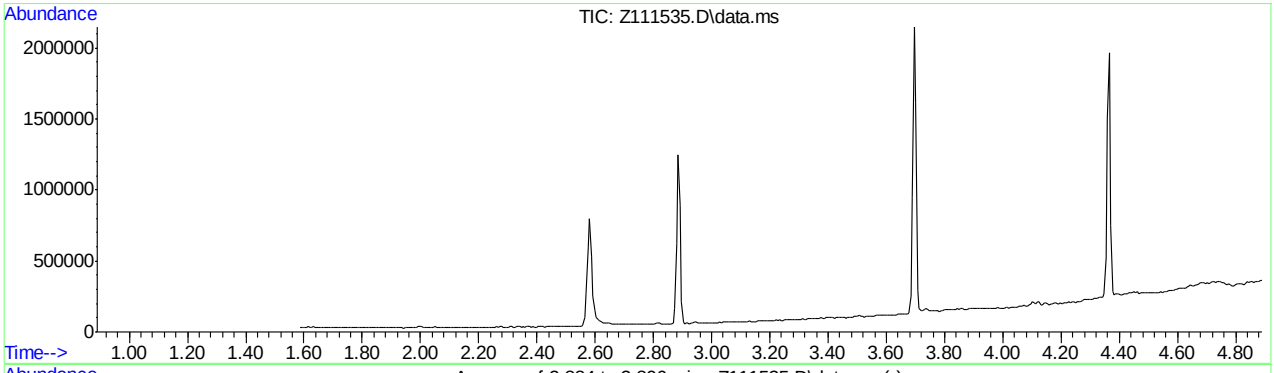
SGS ACCUTEST JC22206

DFTPP

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 228, 229, 230; Background Corrected with Scan 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.0	29438	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.6	39510	PASS
70	69	0.00	2	0.9	349	PASS
127	198	40	60	51.3	44444	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	86608	PASS
199	198	5	9	6.9	5940	PASS
275	198	10	30	26.0	22498	PASS
365	198	1	100	2.8	2415	PASS
441	443	0.01	100	79.4	7599	PASS
442	198	40	100	59.0	51104	PASS
443	442	17	23	18.7	9567	PASS

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	8341	61.10	550	72.05	72	83.10	796
51.10	29438	62.05	342	73.10	392	85.10	459
52.10	1423	63.05	1289	74.10	3653	86.00	728
53.15	181	64.10	284	75.05	5647	87.05	348
54.30	104	65.10	667	76.05	1407	88.00	162
55.15	195	66.00	7	77.10	39199	89.05	133
56.10	953	66.30	71	78.10	2817	90.00	42
57.10	2080	67.15	119	79.05	2533	91.10	786
58.10	117	69.10	39510	80.10	2164	92.10	663
59.10	13	70.10	349	81.10	3077	93.10	4786
60.05	29	71.90	44	82.00	713	94.00	121

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.20	52	105.10	932	114.90	81	124.00	347
95.10	47	106.10	64	116.10	747	125.00	502
96.15	206	107.10	11926	117.10	8353	127.05	44444
97.15	352	108.10	1709	118.10	721	128.00	3443
98.10	3152	110.10	22027	119.10	161	129.05	16760
99.10	2428	111.10	3329	120.00	88	130.05	1460
100.25	305	111.90	206	120.20	29	131.15	211
101.05	1328	112.10	43	120.50	54	132.10	283
102.05	140	113.20	164	120.95	178	133.25	222
103.05	694	114.05	12	122.10	848	134.05	538
104.10	1184	114.50	21	123.10	1026	135.05	1188

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	617	145.05	144	154.10	428	162.20	203
137.15	528	146.10	152	155.10	1164	163.15	110
137.80	50	146.40	41	156.10	1654	164.00	117
138.05	149	147.05	1301	157.10	496	165.05	737
139.05	248	148.00	2003	158.00	418	166.10	799
140.15	92	149.05	395	158.30	49	167.10	4193
141.05	2266	150.05	124	158.50	50	168.10	1955
142.05	565	151.20	169	159.10	292	169.00	331
143.00	402	151.60	49	160.05	443	169.30	67
144.10	181	152.05	172	161.10	1022	169.90	35
144.70	71	153.05	646	161.95	75	170.30	147

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.10	37	181.05	831	188.05	329	200.05	367
172.05	444	182.05	269	189.05	833	201.50	551
173.05	486	182.90	114	190.20	118	202.05	124
174.05	775	183.10	115	191.15	263	202.90	572
175.10	1545	183.30	7	192.10	969	203.30	89
176.10	653	183.90	162	193.10	1004	204.05	3103
177.05	796	184.15	238	194.05	289	205.10	5473
178.10	69	185.10	1833	195.00	190	206.05	22122
178.30	77	186.05	12402	196.10	3077	207.05	3052
179.00	3055	187.00	3255	198.00	86608	208.05	593
180.10	2254	187.80	33	199.00	5940	209.05	275

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.00	140	219.10	66	230.00	248	240.20	46
210.30	49	221.10	5228	231.10	607	241.05	343
211.05	1042	221.70	796	232.15	126	242.10	727
212.25	91	222.00	339	232.90	20	243.10	858

DFTPPZ.M Wed Jun 15 08:08:28 2016 RTE Page: 2

213.25	117	223.10	1551	233.15	43	244.10	9805
213.90	40	224.05	12130	234.05	425	245.15	1337
215.00	168	225.10	3304	235.05	543	246.10	1842
215.80	56	226.05	436	236.15	322	247.10	454
216.05	189	227.05	4641	237.05	400	248.15	238
217.00	5411	228.00	764	239.10	210	249.10	177
218.00	587	229.05	937	239.95	53	250.10	157

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.90	183	262.10	21	272.10	171	281.20	37
251.10	26	263.20	53	273.10	1715	282.05	18
252.25	325	263.90	113	273.35	31	282.40	26
253.15	385	265.00	1210	274.10	3955	283.10	79
255.10	48618	266.05	192	275.10	22498	284.10	100
256.10	7369	267.05	92	276.05	2810	284.60	21
257.05	589	267.40	46	277.10	1854	285.00	390
258.10	2199	267.80	74	278.05	147	286.00	30
259.05	469	269.20	135	279.05	160	286.25	80
260.00	168	269.95	162	280.00	18	287.15	47
261.10	100	271.05	211	280.20	17	288.05	80

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.95	78	297.10	712	307.25	46	314.30	89
289.30	1	297.90	25	307.70	36	315.00	609
289.80	48	298.15	142	309.20	130	315.95	367
290.05	65	300.00	29	310.10	61	317.00	36
290.40	31	301.10	197	310.40	43	317.20	84
291.05	91	302.10	220	311.05	132	318.30	33
292.05	109	303.10	739	312.00	70	319.05	54
292.30	57	304.05	133	312.50	32	319.30	21
293.05	462	305.00	29	312.80	42	320.05	83
294.00	37	305.60	25	313.25	90	321.10	136
296.05	5323	306.00	16	314.10	219	322.00	72

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.10	1917	331.50	24	342.25	15	352.05	465
324.05	462	332.10	103	342.80	34	353.15	446
325.00	25	333.00	137	343.20	65	354.15	616
326.10	2	333.20	124	344.90	44	354.80	35
327.00	434	334.10	1188	346.05	380	355.05	114
328.10	213	335.10	304	346.70	49	356.00	48
329.10	22	336.10	88	347.15	114	357.10	34
329.30	46	337.15	65	349.30	34	357.30	48
329.80	47	339.10	159	350.50	24	357.70	23
330.15	49	339.95	58	351.10	36	358.30	30
331.20	30	341.10	228	351.50	21	358.80	22

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.25	74	368.80	24	378.10	22	387.80	24
361.00	27	369.20	48	379.20	33	388.20	17
361.60	27	370.25	57	380.20	36	389.20	22
362.25	46	371.10	249	381.80	33	389.40	22
362.50	22	372.10	1035	383.10	238	390.15	132
362.95	51	373.10	204	383.90	45	391.05	83
363.20	27	373.80	36	384.05	71	391.95	63
363.95	147	374.20	19	384.90	16	392.60	22
365.00	2415	375.00	19	385.30	21	393.20	23
366.00	287	375.90	29	386.70	27	396.20	30
367.30	24	377.20	84	387.20	17	396.90	21

Average of 2.884 to 2.896 min.: Z111535.D\data.ms

DFTPPZ.M Wed Jun 15 08:08:28 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.60	18	415.60	25	425.00	30	431.20	31
400.90	49	415.90	18	425.30	57	431.60	32
402.05	470	416.40	20	426.00	21	431.90	76
403.00	455	416.90	17	426.50	18	432.40	22
404.05	264	418.60	17	427.50	35	432.80	59
405.40	21	419.55	96	428.80	34	433.80	43
408.90	21	420.40	43	429.30	28	434.60	146
410.10	35	421.05	520	429.45	75	434.90	29
411.30	18	422.10	445	430.10	31	435.40	82
413.40	20	423.10	2907	430.40	22	435.70	72
415.05	51	424.10	569	430.70	66	436.00	64

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

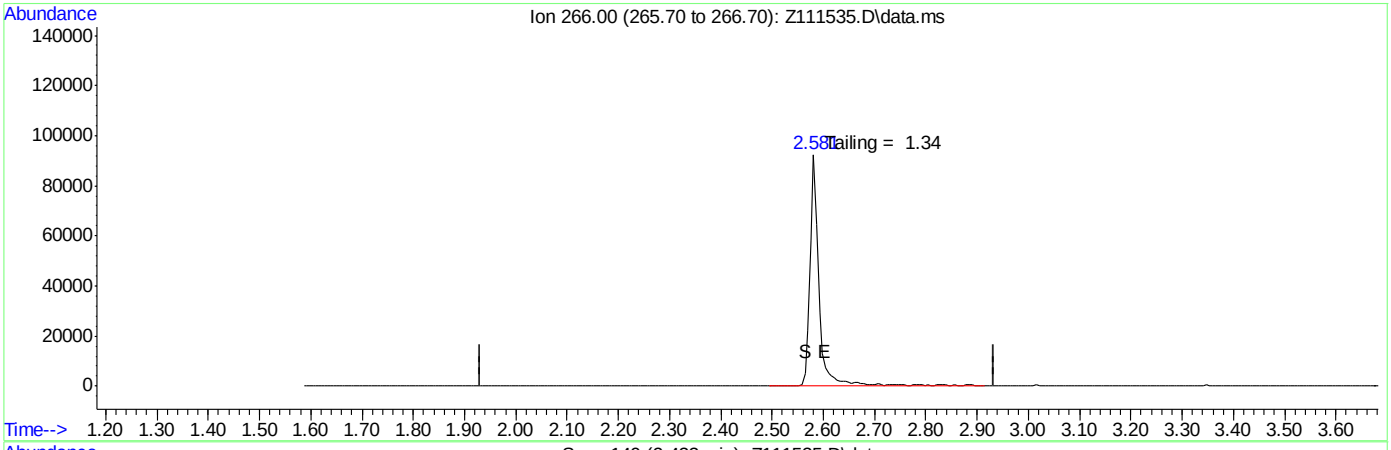
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
436.35	79	442.10	51104	468.60	17	498.60	20
436.95	152	443.10	9567	470.50	19	507.00	16
437.20	53	444.10	848	475.30	17	516.30	18
437.70	164	445.05	75	479.25	40	516.90	21
438.30	213	446.10	27	484.10	18	522.35	40
438.50	141	447.50	28	488.20	24	526.50	27
438.70	145	458.20	17	489.60	19	530.30	41
439.15	207	460.40	33	492.50	17	531.60	25
439.50	165	462.10	31	494.30	17	533.60	21
439.75	1	467.50	37	494.60	20	545.70	25
441.10	7599	468.30	17	497.10	17	549.80	24

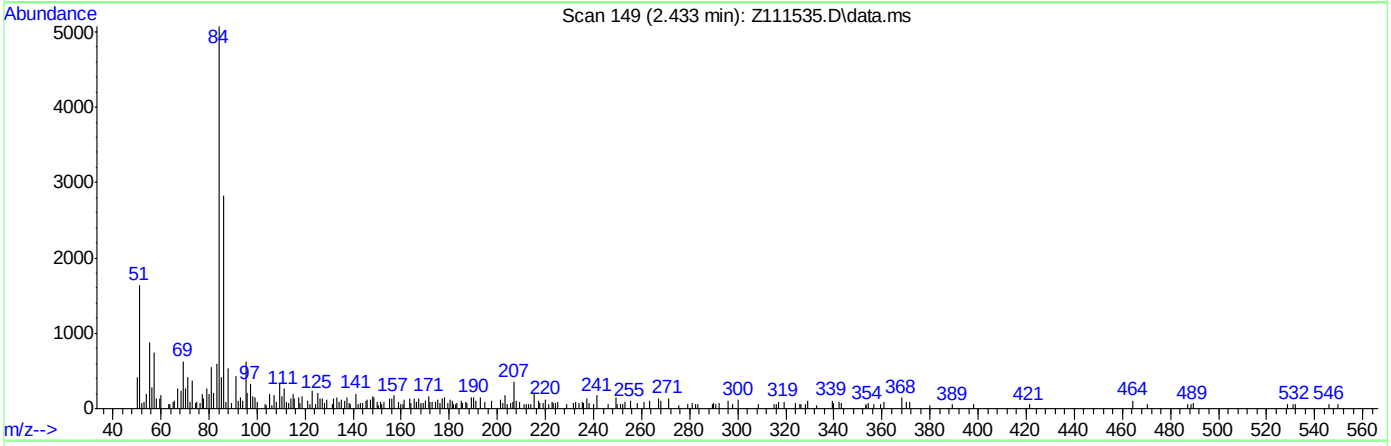
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 16:51:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111535.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

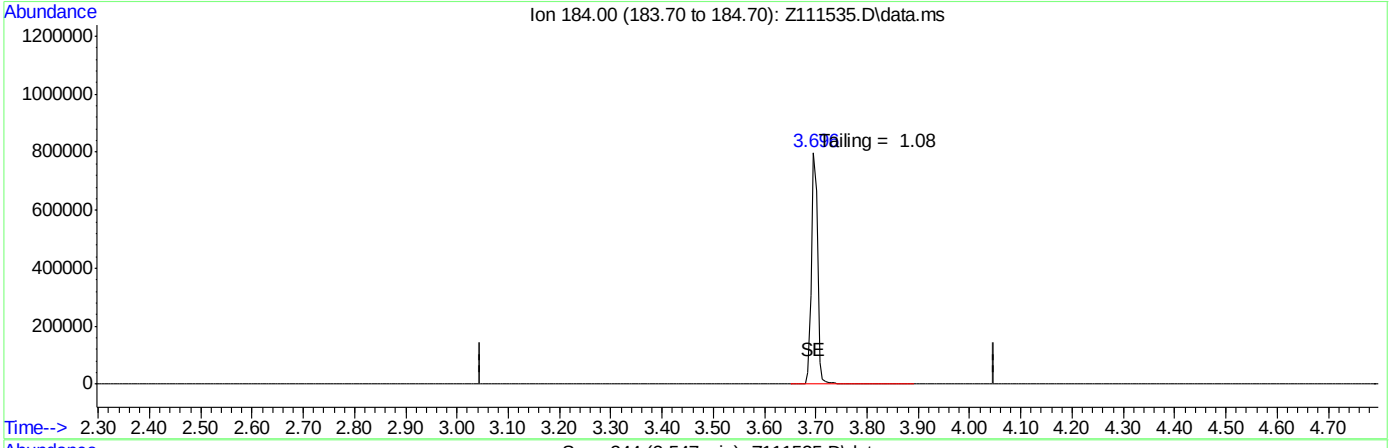
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

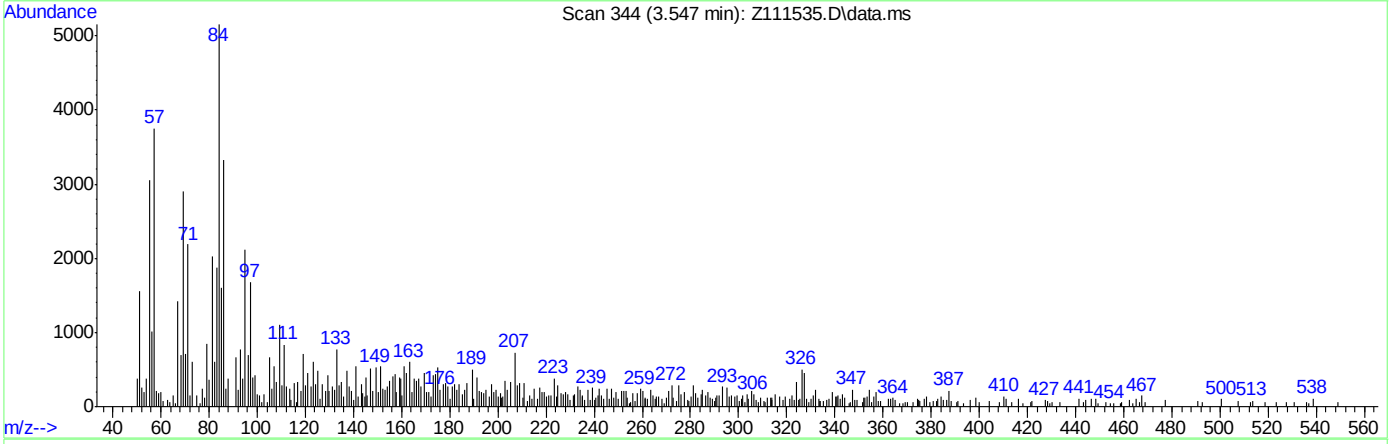
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 16:51:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111535.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

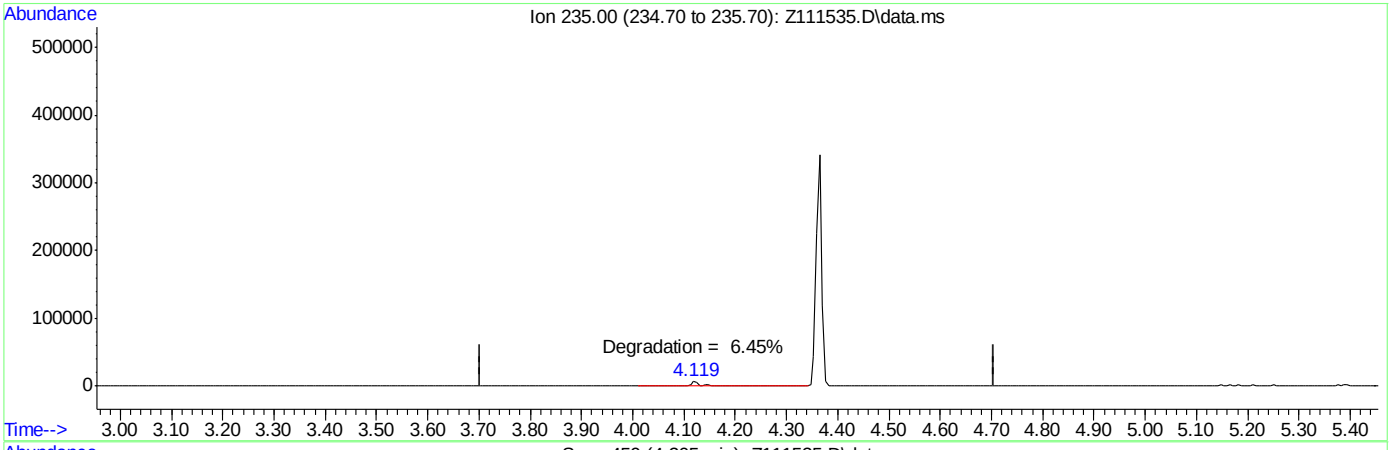
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

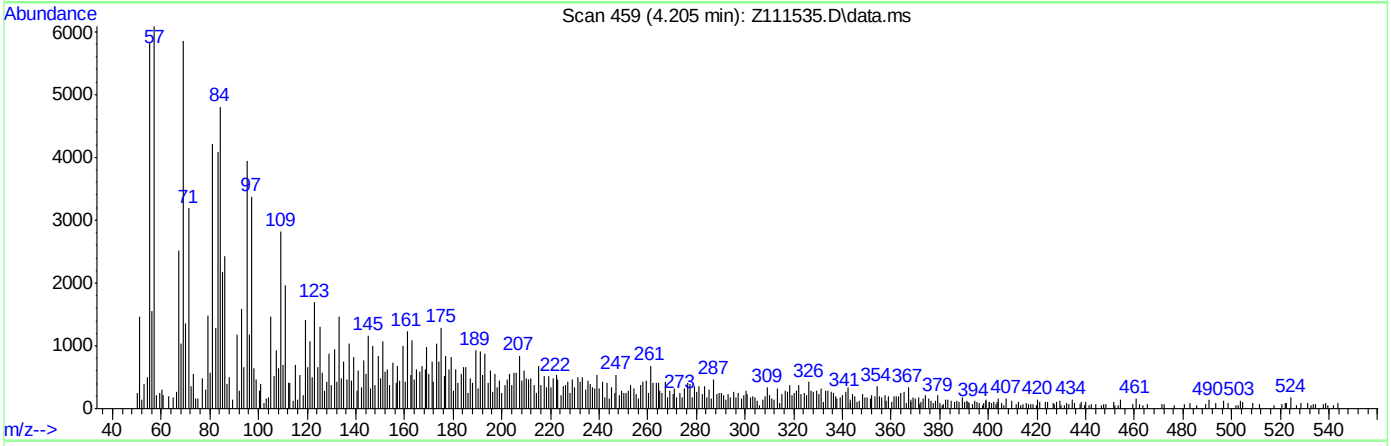
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 16:51:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111535.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

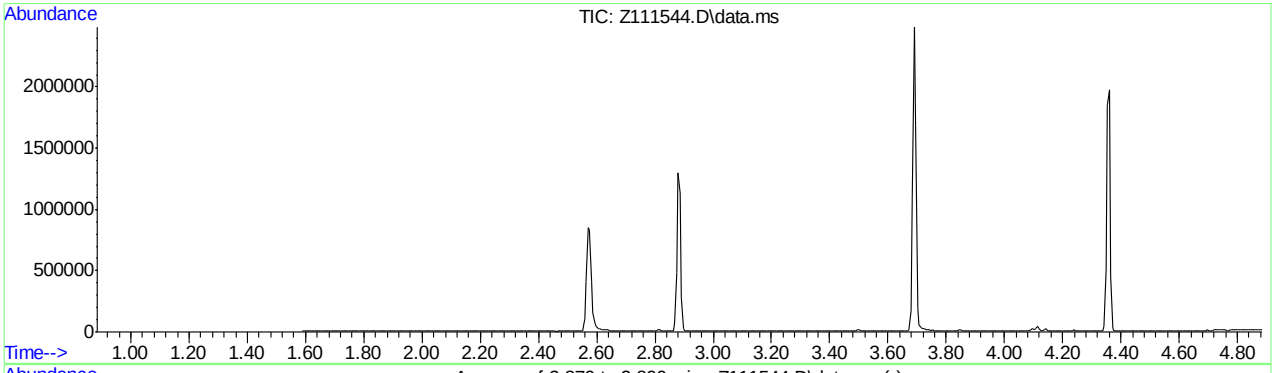
SGS ACCUTEST JC22206

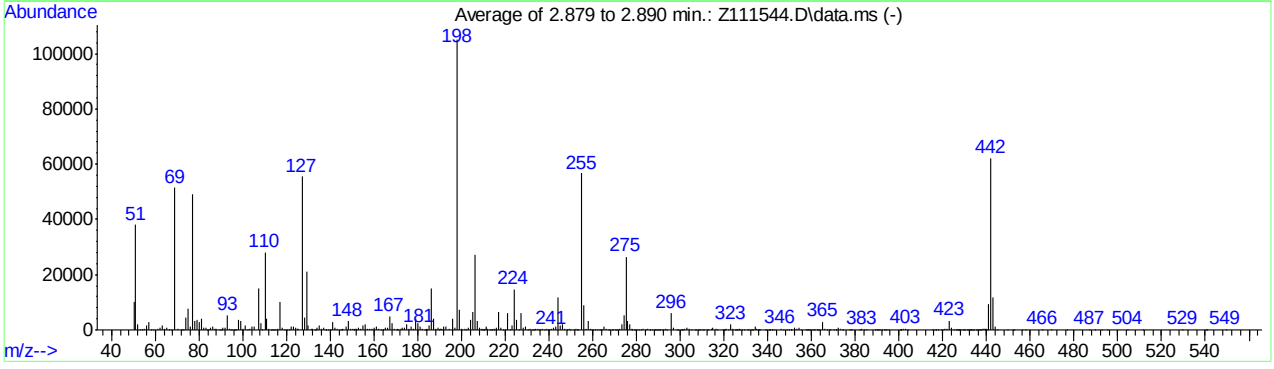
DFTPP

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015





AutoFind: Scans 227, 228, 229; Background Corrected with Scan 222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	38028	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.8	51339	PASS
70	69	0.00	2	0.5	263	PASS
127	198	40	60	52.7	55433	PASS
197	198	0.00	1	0.7	715	PASS
198	198	100	100	100.0	105096	PASS
199	198	5	9	6.8	7180	PASS
275	198	10	30	25.3	26557	PASS
365	198	1	100	2.7	2862	PASS
441	443	0.01	100	79.5	9512	PASS
442	198	40	100	59.2	62213	PASS
443	442	17	23	19.2	11967	PASS

SGS ACCUTEST JC22206

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.15	10213	62.20	684	74.10	4600	84.15	110
51.05	38028	63.05	1560	75.10	7625	85.10	718
52.15	1971	64.10	360	76.20	1390	86.10	1082
53.05	154	65.20	913	77.05	48990	87.05	452
54.00	23	66.25	102	78.10	3337	88.05	250
55.10	292	67.15	123	79.10	3737	89.10	125
56.10	1444	69.05	51339	80.10	2785	89.70	24
57.10	2766	70.15	263	81.05	3885	90.20	60
58.20	137	71.90	25	82.10	995	91.05	710
59.20	49	72.20	27	83.05	875	92.10	914
61.05	541	73.05	183	83.90	111	93.10	5407

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	444	103.05	595	114.05	69	124.10	732
94.50	25	104.00	1208	114.70	41	125.00	391
95.10	120	105.10	1165	115.10	194	125.20	302
96.00	181	107.05	14923	116.05	455	127.10	55433
96.60	20	108.10	2265	117.05	10327	128.10	4567
97.20	37	108.90	51	118.10	840	129.05	20998
98.10	3854	110.10	28114	119.05	158	130.00	1731
99.05	3182	111.10	3931	120.00	133	131.10	327
100.00	394	112.10	560	121.00	69	132.05	308
101.05	1660	113.00	101	122.10	1150	132.90	81
102.00	54	113.20	60	123.10	1423	133.20	31

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	661	143.95	198	152.10	300	163.00	65
135.05	1506	144.95	108	153.10	799	163.90	64
136.05	501	145.20	64	154.05	584	164.10	135
137.10	914	145.95	336	155.10	1471	165.10	900
137.90	77	147.10	1251	156.10	2182	166.05	708
138.20	118	148.10	3057	157.10	458	167.05	5024
138.85	65	149.10	555	158.05	552	168.10	2338
139.95	127	150.10	251	159.05	313	169.10	339
141.10	2677	150.90	34	160.10	733	170.15	142
142.00	779	151.20	222	161.10	1176	170.70	67
143.10	599	151.60	194	162.05	352	171.05	244

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.10	425	183.00	136	190.95	291	201.55	577
173.05	641	183.60	20	191.20	37	202.20	159
174.10	976	184.05	343	192.05	1109	203.05	909
175.10	1939	184.30	57	193.10	1428	204.10	3573
176.10	619	185.10	1830	194.15	362	205.10	6525
177.05	1088	186.10	15122	196.05	4071	206.10	27207
178.00	347	187.10	3904	196.80	715	207.10	3430
179.05	3870	188.15	486	198.00	105096	208.00	832
180.10	2461	189.05	887	199.05	7180	209.10	285
181.05	1114	189.80	37	199.85	201	209.40	31
182.00	332	190.05	235	200.10	293	210.00	172

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.50	105	218.10	922	229.00	1346	237.95	63
210.90	501	219.00	127	230.05	190	239.05	325
211.10	1084	219.90	17	231.10	535	239.70	53
212.05	283	221.10	6088	232.15	109	240.00	51

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212.90	140	222.10	47	233.00	46	241.10	348
213.10	27	223.10	1697	233.20	64	242.10	932
213.70	28	224.10	14617	234.05	394	243.15	1074
214.80	32	225.10	3828	235.00	322	244.10	11791
215.05	311	226.10	195	235.20	33	245.15	1463
216.15	679	227.10	5909	236.00	169	246.05	2092
217.05	6643	228.05	807	237.05	586	247.05	429

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.10	149	259.10	579	267.85	41	277.05	2012
249.00	440	259.70	27	268.85	2	277.80	55
249.95	111	260.05	102	269.40	29	278.05	285
251.05	151	260.95	65	270.00	133	278.90	59
252.05	270	261.80	26	270.90	80	279.20	19
252.80	101	263.10	31	271.10	32	280.00	18
253.10	196	263.70	79	272.10	297	281.00	43
255.10	56610	264.15	144	273.05	1949	282.05	64
256.05	8815	265.05	1351	274.10	5200	283.10	266
257.05	618	266.10	242	275.10	26557	284.00	198
258.10	3164	267.10	40	276.10	3451	285.05	313

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.90	37	292.10	100	303.10	894	313.00	45
286.30	60	293.05	493	304.00	291	314.10	353
287.00	21	294.00	135	305.00	17	315.00	911
288.00	42	296.00	6287	306.60	23	316.20	405
288.20	34	297.00	782	307.00	16	316.90	108
288.85	74	298.15	56	307.90	81	319.25	69
289.20	54	298.70	21	308.50	22	320.00	23
289.70	17	300.60	23	309.10	21	320.30	27
290.10	72	301.00	21	310.10	122	321.05	323
290.85	39	301.20	59	310.60	24	322.10	116
291.70	21	302.05	222	312.00	39	323.10	2203

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.15	426	332.15	197	340.30	43	350.90	52
325.00	28	332.90	47	340.90	28	352.10	747
325.40	26	333.15	197	341.15	171	353.05	465
325.95	79	334.10	1320	341.80	18	354.10	713
326.30	17	335.00	343	342.05	115	355.15	125
327.00	311	335.20	56	342.90	24	357.20	19
327.20	47	335.80	20	346.05	453	357.90	22
328.00	139	336.00	17	346.85	91	358.60	17
328.90	65	336.20	34	348.80	24	358.90	25
330.45	35	338.70	25	349.60	30	359.60	28
331.00	33	339.40	31	350.60	22	360.20	26

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.90	19	371.00	144	383.00	314	393.90	21
361.35	60	371.30	59	384.05	72	394.20	18
362.30	59	372.10	864	385.00	82	395.20	30
363.00	32	373.05	229	388.90	17	400.20	24
363.50	43	374.00	40	389.20	19	400.80	46
365.05	2862	374.30	39	389.90	68	401.00	32
365.95	473	377.10	23	390.10	80	402.05	493
366.90	39	377.90	17	390.40	31	403.00	527
368.10	20	378.20	20	391.00	141	404.15	195
368.50	33	381.90	34	392.05	150	415.05	50
369.95	104	382.20	19	393.20	17	416.00	26

Average of 2.879 to 2.890 min.: Z111544.D\data.ms

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dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
416.60	24	426.50	17	432.50	36	438.40	406
417.00	18	427.00	21	432.90	31	438.85	306
417.90	27	427.30	66	433.25	73	439.10	171
419.25	58	427.60	23	433.55	69	439.40	342
420.00	22	428.00	20	434.35	129	439.80	308
421.05	536	429.00	24	435.40	42	440.10	164
422.10	418	429.45	62	435.75	118	441.10	9512
423.05	3371	430.30	42	436.30	65	442.10	62213
424.05	782	430.90	75	436.65	117	443.10	11967
425.00	134	431.70	38	437.30	109	444.10	1220
426.20	23	432.10	16	437.50	152	445.15	116

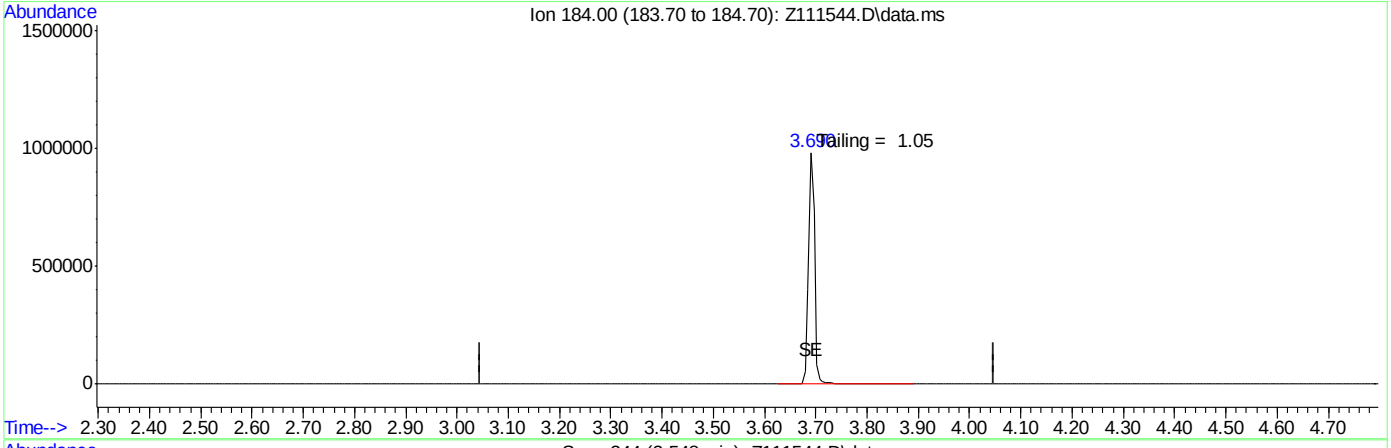
Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

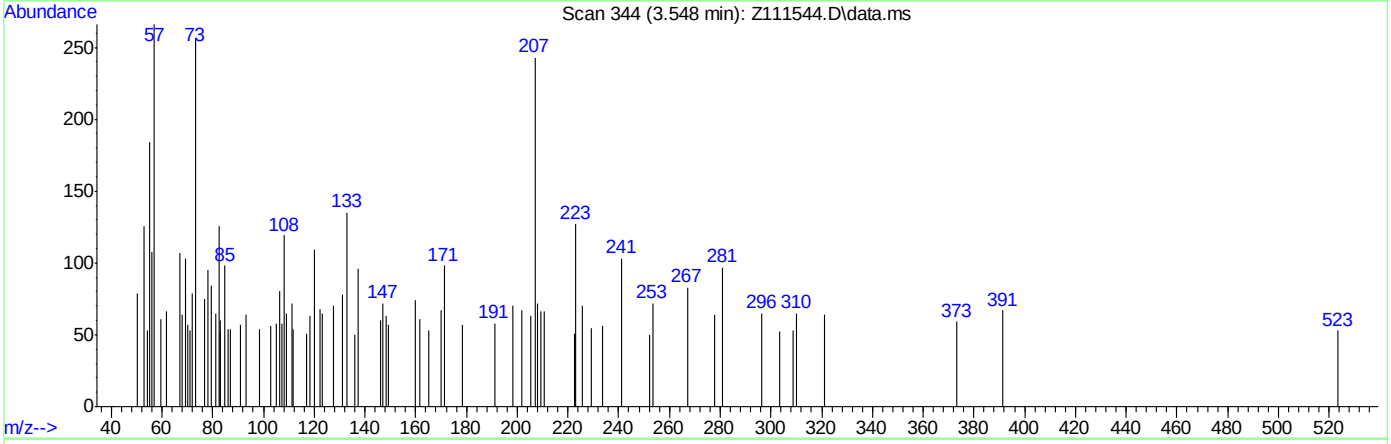
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
449.70	17	495.20	22				
452.00	18	504.50	39				
452.40	28	511.40	21				
456.40	18	529.60	25				
457.70	28	540.40	24				
465.70	34	541.00	20				
469.30	18	549.30	22				
476.90	18						
487.10	25						
489.60	17						
492.40	26						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 08:10:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





(2) Benzidine

3.547min (-3.547) 0.00

response 0

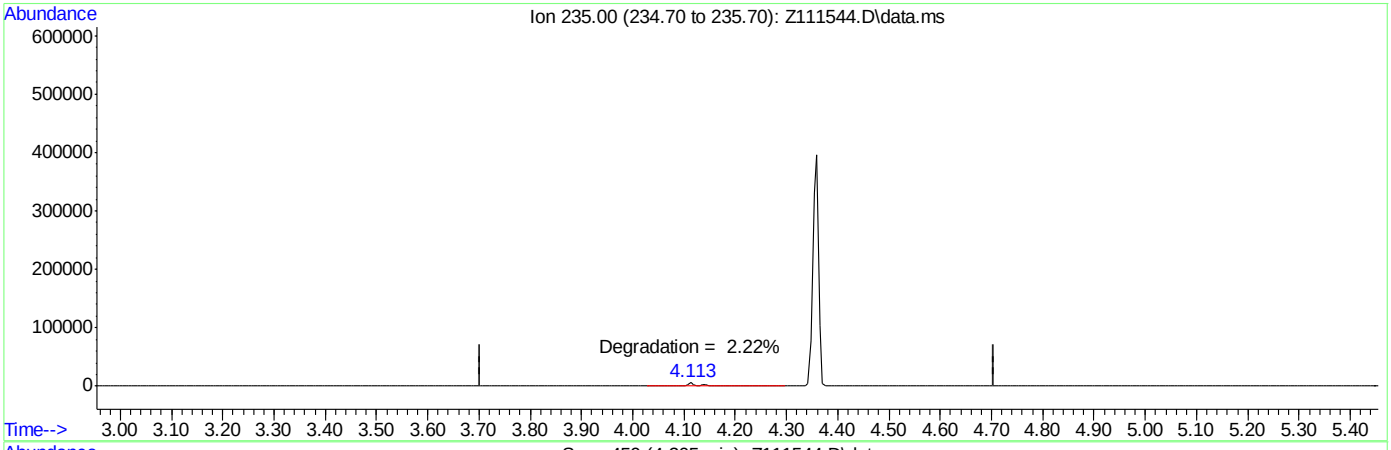
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

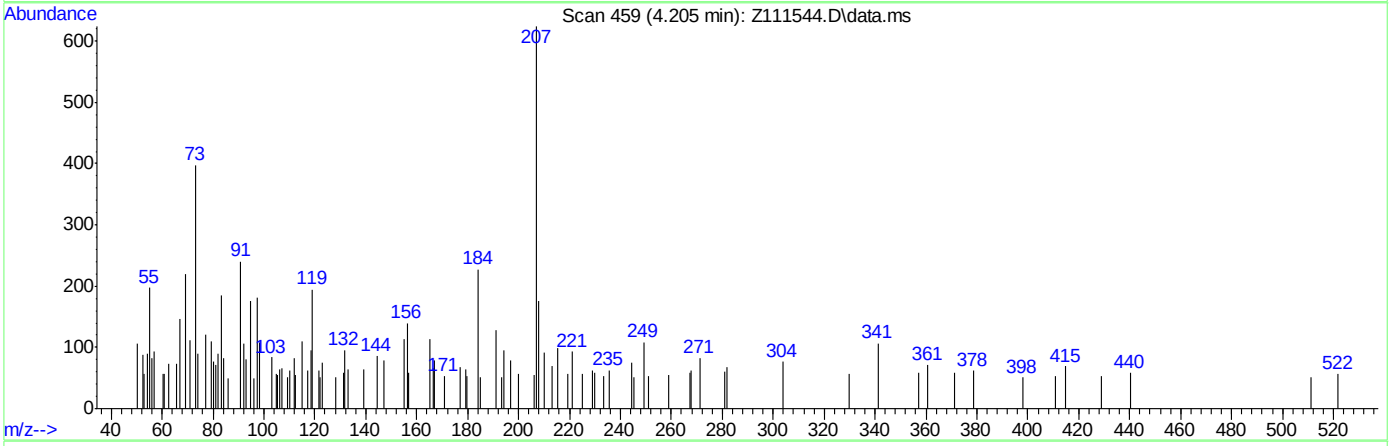
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 08:10:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111544.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

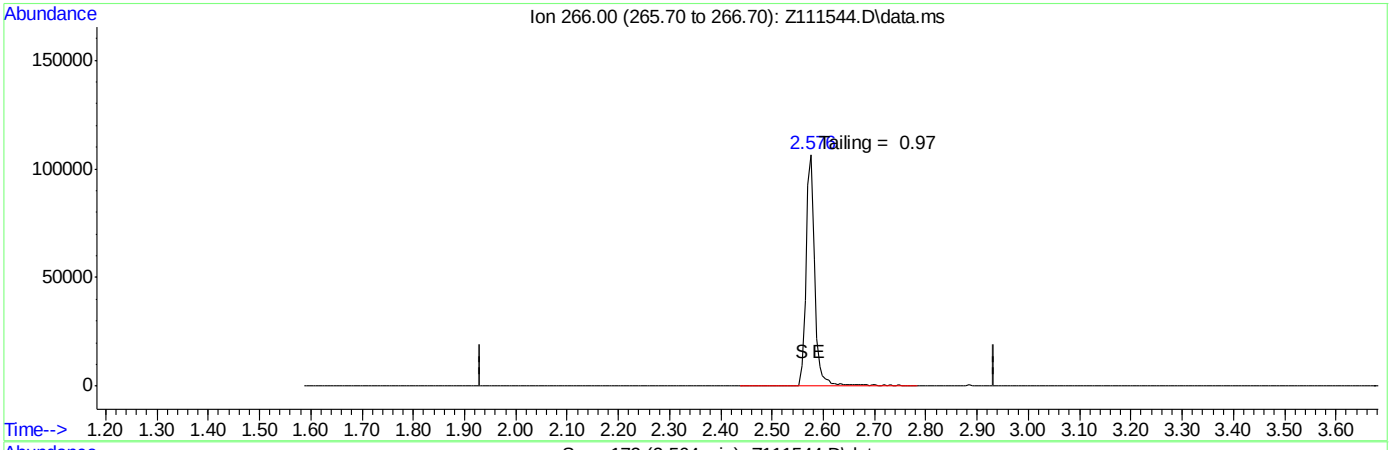
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

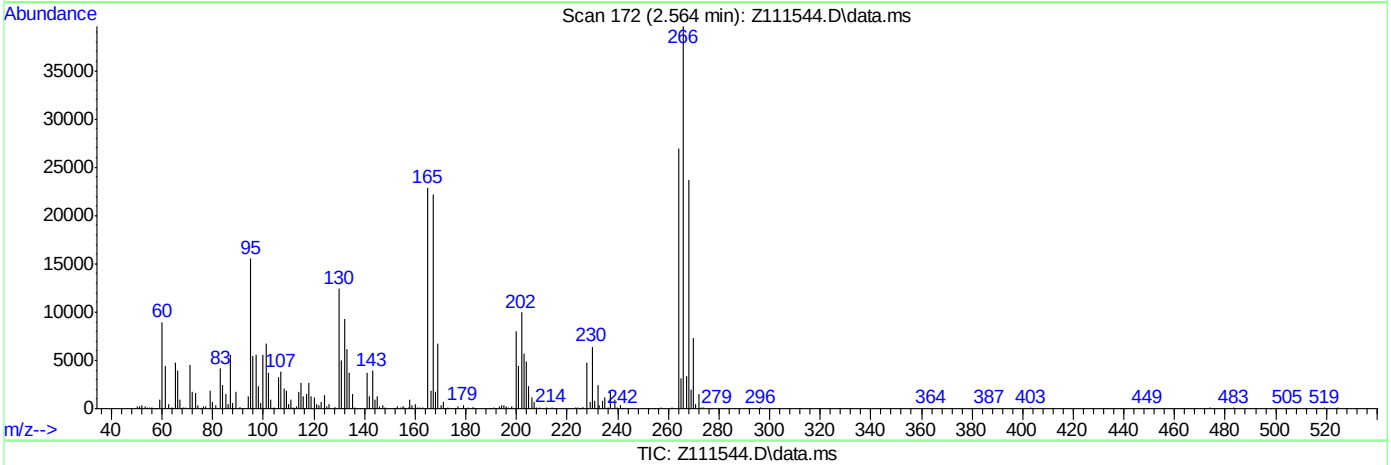
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 08:10:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111544.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

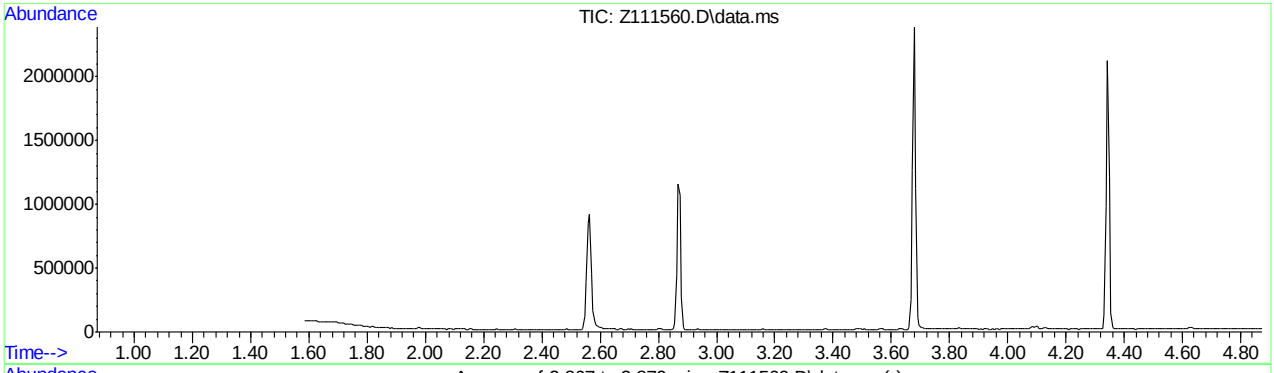
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 225, 226, 227; Background Corrected with Scan 219

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.4	34192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	46850	PASS
70	69	0.00	2	0.2	93	PASS
127	198	40	60	52.3	50554	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	96581	PASS
199	198	5	9	6.9	6659	PASS
275	198	10	30	24.4	23571	PASS
365	198	1	100	2.6	2533	PASS
441	443	0.01	100	79.6	8159	PASS
442	198	40	100	57.0	55053	PASS
443	442	17	23	18.6	10251	PASS

SGS ACCUTEST JC22206

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	9172	61.10	553	73.10	292	83.10	932
51.10	34192	62.15	660	73.30	95	85.05	794
52.10	1829	63.10	1422	74.10	4328	86.05	789
53.05	62	64.10	178	75.10	6965	87.00	357
54.00	19	65.10	911	76.15	1250	88.05	192
55.15	265	66.10	41	77.05	44894	89.00	22
56.05	1262	66.90	79	78.15	3366	89.50	18
57.10	2361	67.10	94	79.10	3109	91.10	886
58.10	33	69.10	46850	80.10	2143	92.15	881
59.05	63	70.10	93	81.10	3115	93.10	5106
59.30	30	70.30	63	82.05	815	94.05	214

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	253	105.10	1068	118.10	824	128.10	3778
96.15	338	107.05	13623	119.00	79	129.05	18934
96.50	49	108.10	2148	120.10	267	130.05	1531
98.10	3508	110.10	25192	120.90	89	131.00	380
99.10	2942	111.10	3709	122.10	808	132.10	128
100.00	140	112.10	439	123.05	1265	132.45	88
100.20	138	113.00	195	124.10	634	132.80	84
101.10	1775	114.05	78	124.80	33	134.05	535
102.05	111	115.05	77	125.10	640	135.05	1389
103.10	783	116.20	314	125.30	36	136.00	516
104.00	1205	117.05	9745	127.10	50554	137.05	569

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.05	143	146.05	480	155.10	1422	166.05	765
138.70	48	147.10	1065	156.10	1796	167.10	4385
139.00	64	148.10	2509	157.05	408	168.10	2206
139.30	67	149.05	575	158.05	471	169.05	292
140.20	344	150.00	183	159.00	283	170.05	186
141.10	2067	151.20	435	160.00	709	171.10	295
142.05	715	151.95	235	161.10	1108	172.05	344
143.00	658	152.30	21	162.05	331	173.05	628
144.00	61	153.00	874	163.00	104	174.10	1051
144.30	57	153.80	73	164.05	127	174.70	57
144.90	120	154.15	571	165.00	1001	175.10	1697

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.10	807	183.60	29	194.05	278	204.10	3224
177.05	782	184.10	364	194.40	18	205.10	6167
177.60	22	185.10	1918	195.05	117	206.10	24092
178.00	68	186.10	13817	196.05	3373	207.05	2839
178.20	256	187.10	3818	196.50	122	208.05	783
179.05	3276	188.10	400	198.00	96581	209.00	238
180.10	2183	189.10	840	199.00	6659	210.20	247
181.10	1261	190.00	117	200.10	547	211.05	977
182.05	200	191.05	327	201.40	216	211.70	189
182.30	22	192.10	1189	201.55	386	212.05	126
183.10	66	193.10	1166	203.10	658	212.80	17

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.15	19	224.10	13200	235.00	449	243.15	957
213.80	25	225.10	3197	236.00	294	244.10	11087
214.90	113	226.10	77	237.00	186	245.10	1387
215.15	187	227.10	5079	237.15	206	246.10	1908

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216.00	525	228.10	772	237.80	38	246.90	133
217.00	5909	229.05	1277	237.95	74	247.05	219
218.00	748	229.95	180	239.00	189	247.70	33
219.00	92	231.05	649	239.90	34	248.15	142
221.10	5602	232.15	75	240.15	165	249.00	451
222.10	430	233.05	170	241.10	380	249.90	50
223.10	1334	234.05	355	242.10	838	251.00	65

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.35	20	262.30	24	271.10	154	279.80	22
252.10	209	262.95	67	271.30	20	280.20	19
252.90	43	263.20	18	272.00	85	280.80	60
253.10	431	265.05	1364	273.05	1716	281.10	36
255.10	52904	266.00	308	273.30	222	282.00	50
256.10	7591	266.85	43	274.10	4739	282.30	26
257.15	687	267.10	63	275.10	23571	283.10	189
258.10	2850	267.75	105	276.10	3380	283.30	48
259.05	496	268.40	20	277.00	1702	284.05	184
259.95	93	269.25	82	278.00	382	285.10	251
261.05	89	270.05	153	278.95	102	285.85	46

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.00	23	298.10	24	305.00	50	315.90	150
288.85	147	299.00	17	307.10	23	316.10	292
290.00	28	299.70	19	308.05	102	316.90	38
290.25	62	300.20	23	308.85	51	317.40	23
290.95	55	300.80	19	309.80	43	319.00	27
291.70	67	301.10	35	310.00	72	320.10	84
291.95	74	301.30	36	310.90	20	320.70	56
293.05	384	302.15	15	312.80	29	321.00	182
294.05	112	303.05	699	313.00	27	321.95	118
296.05	6063	304.00	160	314.05	366	323.10	2139
297.05	740	304.20	49	315.05	763	324.10	409

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
325.05	50	335.15	257	347.10	34	356.90	26
326.10	37	335.90	30	347.80	24	357.70	27
327.05	344	337.70	37	348.80	29	358.20	30
327.70	61	338.90	76	350.00	33	359.05	67
328.10	201	339.85	102	350.80	27	359.80	19
329.20	31	340.50	20	351.20	25	360.50	21
330.30	54	341.10	246	352.00	544	361.80	20
331.80	50	342.10	20	353.10	479	362.60	24
332.20	98	342.90	20	354.10	725	363.25	74
333.10	242	343.70	18	355.00	48	363.60	25
334.05	1257	346.10	488	355.15	119	364.00	77

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.00	2533	376.20	21	392.30	21	407.60	19
366.05	384	376.50	21	393.20	23	412.40	18
366.95	58	377.40	26	397.70	24	415.10	29
369.10	23	381.80	23	399.70	17	416.00	19
369.30	22	382.95	297	399.90	26	416.70	26
369.85	67	384.05	53	400.60	39	417.60	18
371.05	143	386.50	20	401.10	62	418.20	24
371.30	66	390.00	109	402.10	371	418.40	35
372.10	1046	390.30	29	403.05	481	418.70	31
373.15	228	391.05	111	404.10	141	419.30	42
374.05	39	391.95	48	404.30	42	419.60	28

Average of 2.867 to 2.879 min.: Z111560.D\data.ms

DFTPPZ.M Fri Jun 17 17:13:35 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
419.80	17	430.25	94	436.40	326	444.10	897
420.20	49	431.25	79	437.30	45	444.90	40
421.00	383	432.00	47	437.60	252	456.90	24
421.20	157	432.40	71	438.20	277	473.10	20
422.10	587	433.25	61	438.45	188	473.40	16
423.10	2970	433.50	50	439.00	201	474.50	21
424.15	752	434.10	33	439.30	106	475.30	28
424.95	62	434.35	82	439.90	172	485.00	19
425.30	39	435.05	124	441.10	8159	492.00	16
426.00	37	435.50	76	442.10	55053	507.50	17
429.40	27	435.90	19	443.10	10251	513.70	21

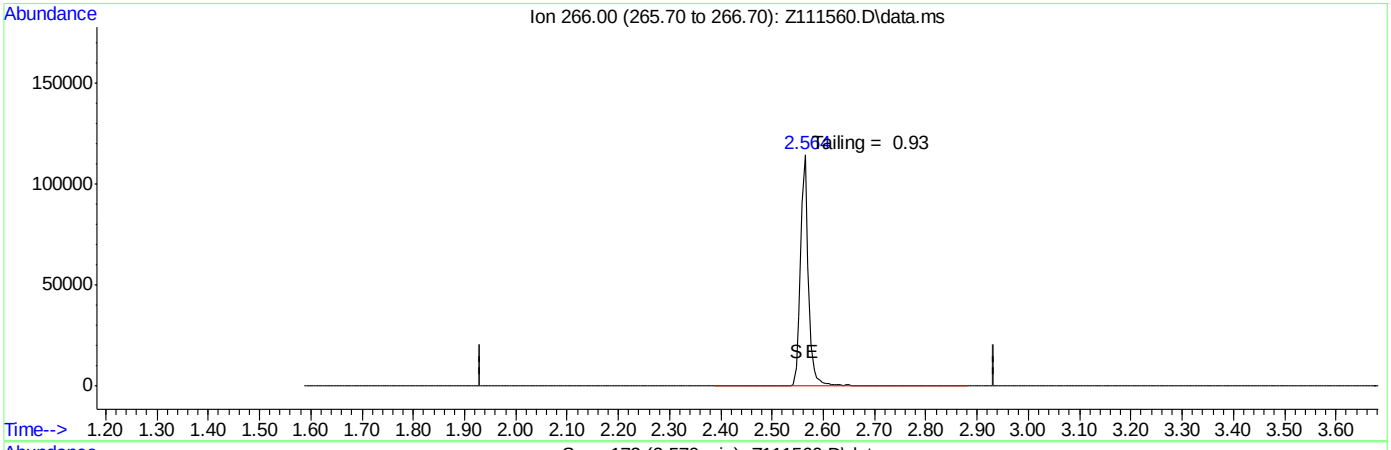
Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

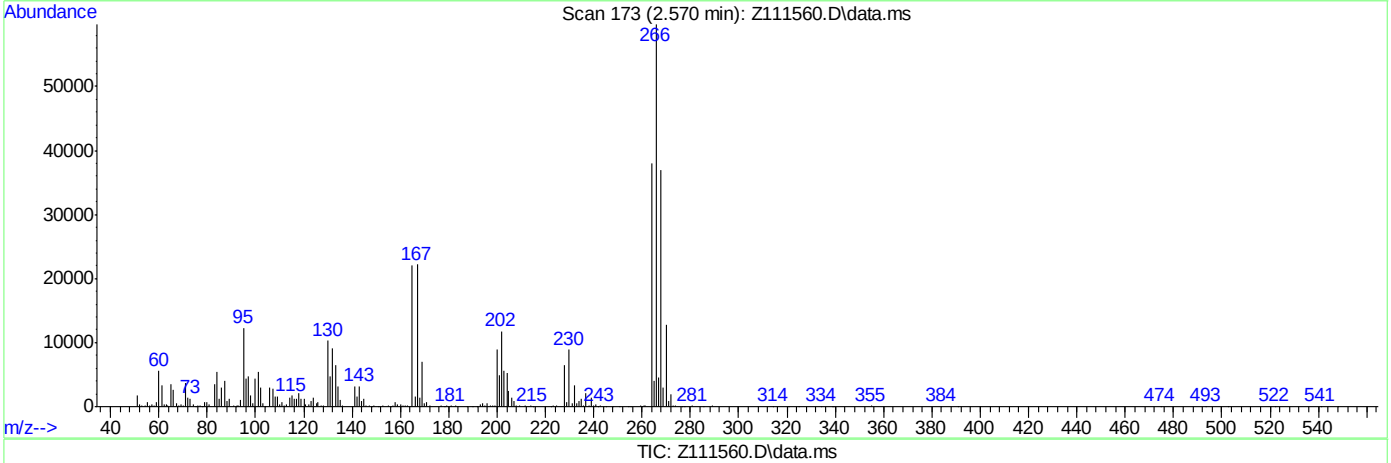
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
516.70	16						
528.90	17						
545.80	23						
546.70	19						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 16:47:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111560.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

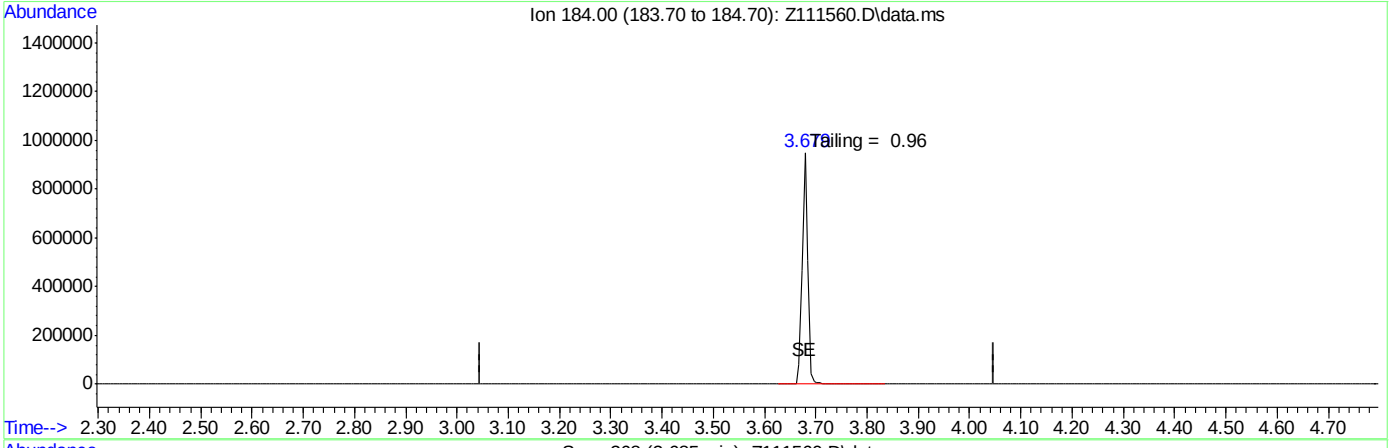
response 0

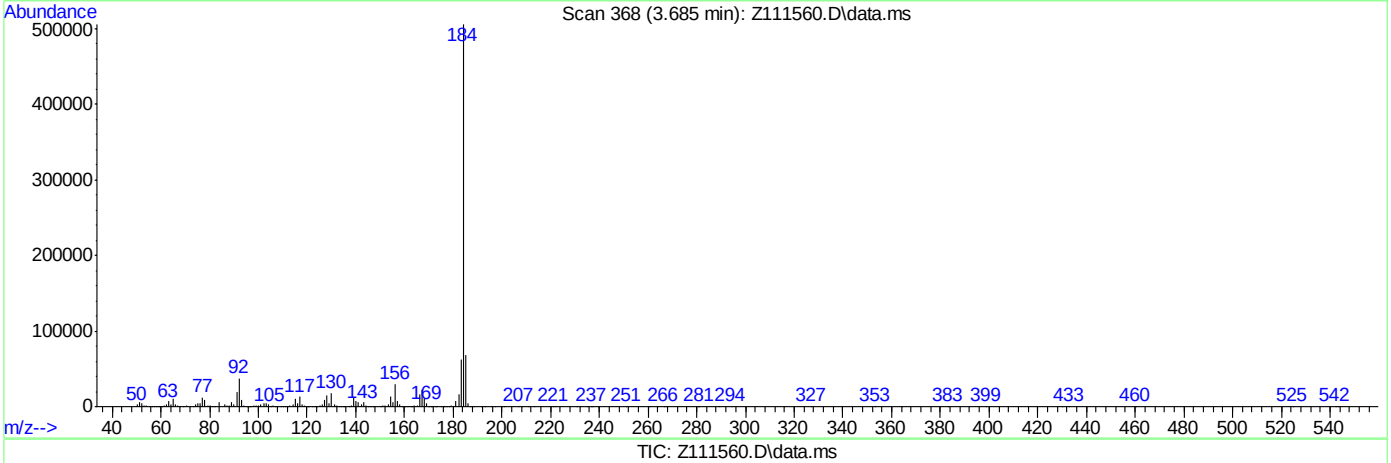
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 16:47:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111560.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

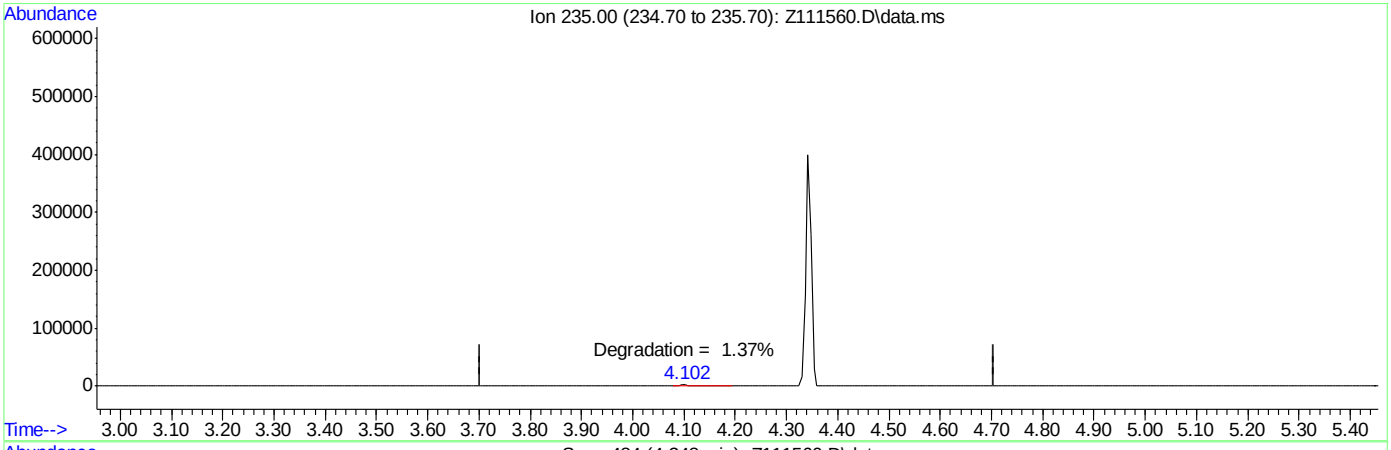
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

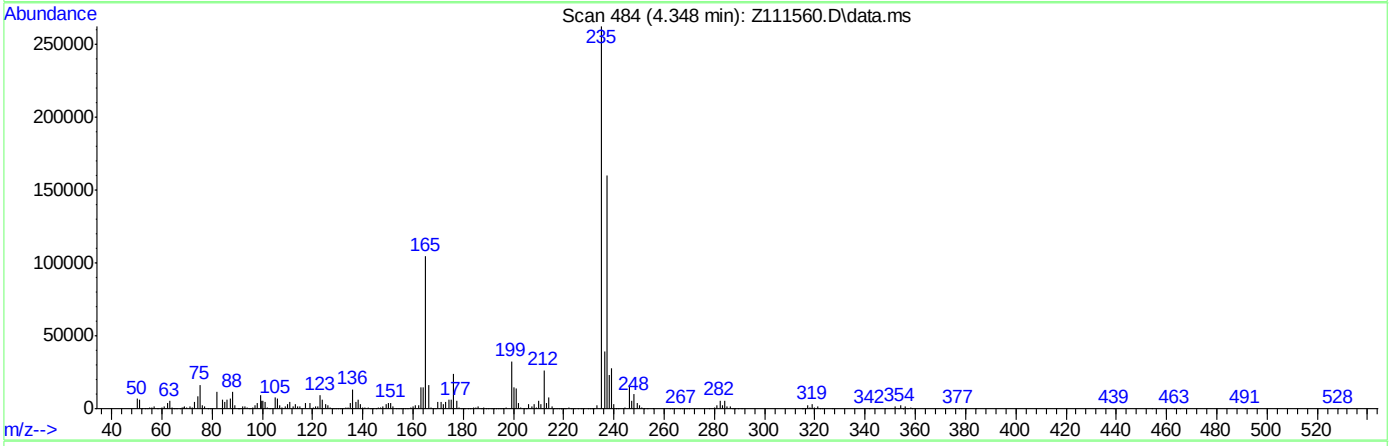
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 16:47:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111560.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

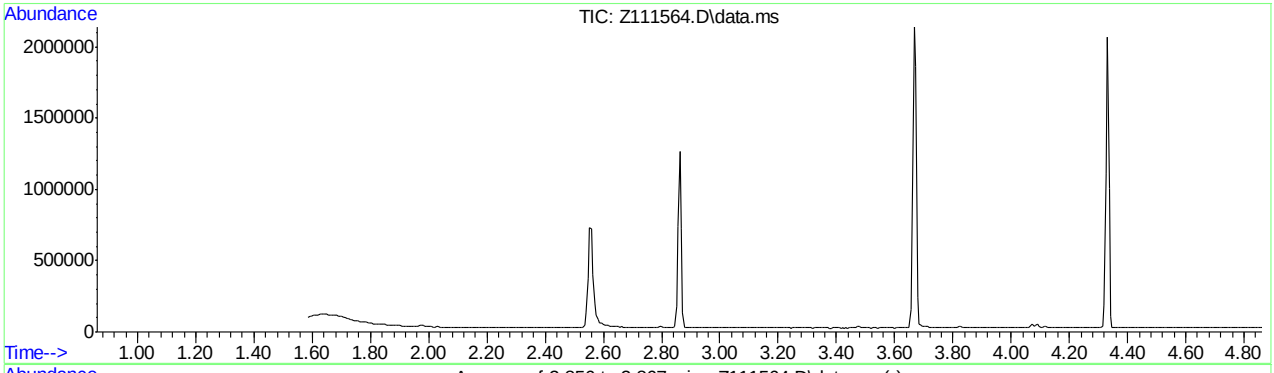
SGS ACCUTEST JC22206

DFTPP

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 223, 224, 225; Background Corrected with Scan 219

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	39674	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.6	54481	PASS
70	69	0.00	2	0.7	390	PASS
127	198	40	60	54.8	55762	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	101696	PASS
199	198	5	9	6.6	6677	PASS
275	198	10	30	24.0	24415	PASS
365	198	1	100	2.4	2399	PASS
441	443	0.01	100	86.2	8454	PASS
442	198	40	100	52.0	52888	PASS
443	442	17	23	18.5	9807	PASS

SGS ACCUTEST JC22206

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.15	10999	62.05	588	73.05	440	85.05	874
51.10	39674	63.10	1818	74.10	4884	86.00	1118
52.15	1974	64.05	343	75.05	7517	87.00	375
53.00	48	65.10	832	76.20	2106	88.00	315
55.20	245	66.00	40	77.10	52656	89.00	47
56.10	1421	66.15	85	78.10	3723	89.50	17
57.10	3128	67.05	10	79.10	3763	90.10	39
58.10	112	67.30	189	80.05	2735	91.10	889
59.15	54	69.10	54481	81.10	3777	92.00	316
60.00	168	70.10	390	82.00	649	92.15	547
61.10	675	71.10	80	83.05	871	93.10	5964

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	477	102.05	19	114.00	26	121.15	134
95.05	10	102.30	25	114.20	26	122.05	1039
95.30	62	103.00	713	115.05	114	123.05	1418
96.05	95	104.10	1307	116.00	139	124.05	822
97.20	57	105.10	1283	117.10	10483	125.10	636
98.05	4213	107.10	15409	118.10	756	127.10	55762
99.05	3428	108.10	2675	119.00	57	128.10	4544
99.80	53	110.10	29095	119.20	62	129.10	20838
100.10	236	111.10	4349	119.80	37	130.05	1591
101.10	1901	112.00	641	120.10	233	131.05	399
101.80	20	113.05	126	120.30	57	132.05	117

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
133.20	164	140.15	240	149.00	538	157.90	461
134.05	628	141.05	2625	150.05	145	158.30	97
135.10	1364	142.05	877	150.30	60	159.00	339
136.05	628	142.90	140	151.10	377	160.10	751
137.05	752	143.05	374	152.00	198	161.05	1070
137.40	99	144.00	155	153.05	788	161.80	91
138.00	224	144.40	28	154.05	699	162.10	241
138.60	58	145.05	181	155.10	1595	163.00	63
138.95	135	146.10	465	156.10	2071	163.30	28
139.50	44	147.05	1119	156.90	71	164.10	174
140.00	75	148.10	2693	157.20	397	165.05	841

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.10	845	175.05	1903	185.05	1785	195.05	181
167.10	5478	176.05	829	186.10	14678	196.05	3424
168.05	2256	177.05	1043	187.10	4096	198.00	101696
169.00	431	178.10	33	188.05	380	199.05	6677
169.80	75	179.00	3588	189.05	691	200.10	721
170.10	67	180.10	2445	189.75	120	200.60	53
170.90	130	181.10	1264	190.00	33	201.55	763
171.10	117	182.10	141	191.10	469	203.05	827
172.05	420	182.70	53	192.05	1243	204.05	3549
173.00	509	183.20	165	193.05	1190	205.05	6375
174.10	1120	184.05	246	194.05	363	206.10	26214

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.10	3493	218.10	960	228.05	914	237.20	134
208.05	816	218.80	60	229.00	1135	237.95	108
209.10	348	219.50	109	229.85	63	238.30	19
211.10	1104	221.10	6463	230.10	74	238.60	24

DFTPPZ.M Thu Jun 16 08:50:01 2016 RTE Page: 2

211.75	322	222.10	205	231.05	522	239.05	175
212.00	95	223.10	1775	232.05	105	240.05	176
213.05	106	224.10	13725	233.10	169	241.05	326
213.70	17	225.15	3475	234.05	390	242.05	704
215.10	285	226.00	106	235.05	434	243.15	964
216.10	510	226.15	413	236.10	329	244.10	11505
217.00	6046	227.05	5456	237.00	316	245.10	1513

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.10	1798	253.10	481	264.00	208	273.10	1746
247.10	516	255.10	54664	265.05	1279	274.10	4793
248.10	97	256.05	8081	265.95	225	275.10	24415
249.00	558	257.05	731	266.95	86	276.05	3130
249.90	113	258.10	2915	267.30	24	277.05	2032
250.20	41	258.80	65	269.10	63	278.05	384
250.60	32	259.10	356	270.10	54	279.00	59
250.85	131	260.10	32	271.05	123	279.50	30
251.20	92	261.00	56	271.50	44	279.90	37
251.95	53	262.90	22	272.10	98	280.30	19
252.20	65	263.15	35	272.40	102	281.80	18

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.25	85	289.40	20	296.05	5961	305.30	47
283.05	279	290.00	41	297.05	917	305.60	26
284.10	224	290.20	36	297.80	27	306.70	16
285.05	380	290.90	22	298.10	51	307.00	20
286.00	35	291.25	71	298.40	39	308.00	121
286.25	69	292.05	100	300.35	42	308.80	25
287.40	21	293.00	462	300.90	26	309.20	51
287.70	17	293.90	97	301.95	147	310.00	40
287.90	64	294.30	42	303.10	760	310.20	38
288.70	38	294.80	54	304.05	270	311.00	24
289.00	52	295.00	85	305.00	19	311.45	39

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
312.20	18	322.05	152	332.80	19	342.05	74
313.20	66	323.10	2203	333.15	161	346.05	427
314.10	390	324.00	203	334.10	1388	347.05	76
315.00	590	324.20	127	335.00	404	347.90	26
316.15	362	325.00	19	336.05	67	348.90	20
317.05	84	327.05	448	336.30	23	349.90	17
318.00	25	327.80	38	339.00	49	350.70	74
318.20	18	328.05	168	339.20	30	352.00	101
319.40	24	328.80	42	340.00	67	352.15	489
320.15	77	331.15	63	340.20	21	352.90	60
321.10	291	332.15	255	341.05	269	353.15	329

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.05	619	363.85	103	374.05	38	390.85	122
355.10	138	365.00	2399	377.20	20	391.30	22
356.30	21	366.00	401	378.30	28	392.10	93
358.90	46	366.80	41	380.20	21	395.70	18
359.90	23	367.30	19	380.60	28	398.30	16
360.10	25	369.00	21	381.20	17	401.00	18
360.80	22	369.90	44	383.00	281	401.30	34
361.60	28	370.90	111	383.90	22	401.90	82
362.10	26	371.30	97	384.10	29	402.05	421
362.70	26	372.05	1008	387.20	18	403.05	496
363.00	31	373.00	282	390.10	114	403.90	32

Average of 2.856 to 2.867 min.: Z111564.D\data.ms

DFTPPZ.M Thu Jun 16 08:50:01 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.15	122	419.00	30	428.00	50	433.50	66
404.90	29	421.00	385	428.40	29	434.20	27
405.40	18	422.10	423	428.70	20	434.50	53
406.80	20	423.10	2804	429.10	18	435.10	71
412.20	20	424.05	716	429.70	36	435.40	67
413.80	19	424.80	34	430.10	18	436.20	169
415.30	37	425.10	27	430.30	34	436.80	87
416.00	22	425.60	19	430.60	40	437.10	243
416.40	29	426.60	18	431.50	63	437.70	187
417.10	19	427.00	32	432.30	23	438.20	76
418.60	27	427.50	23	432.95	70	438.50	46

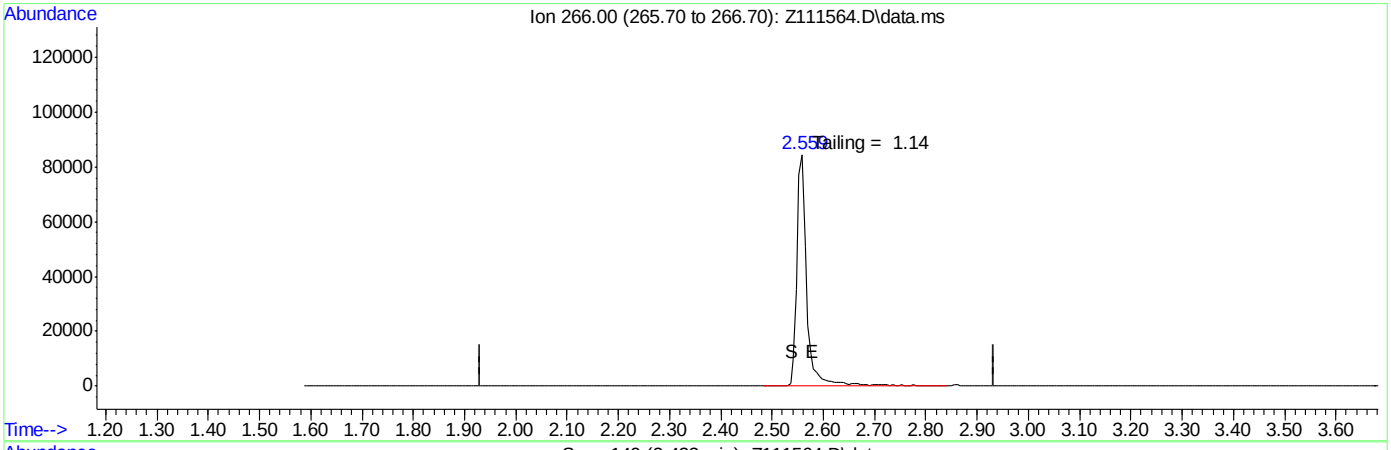
Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

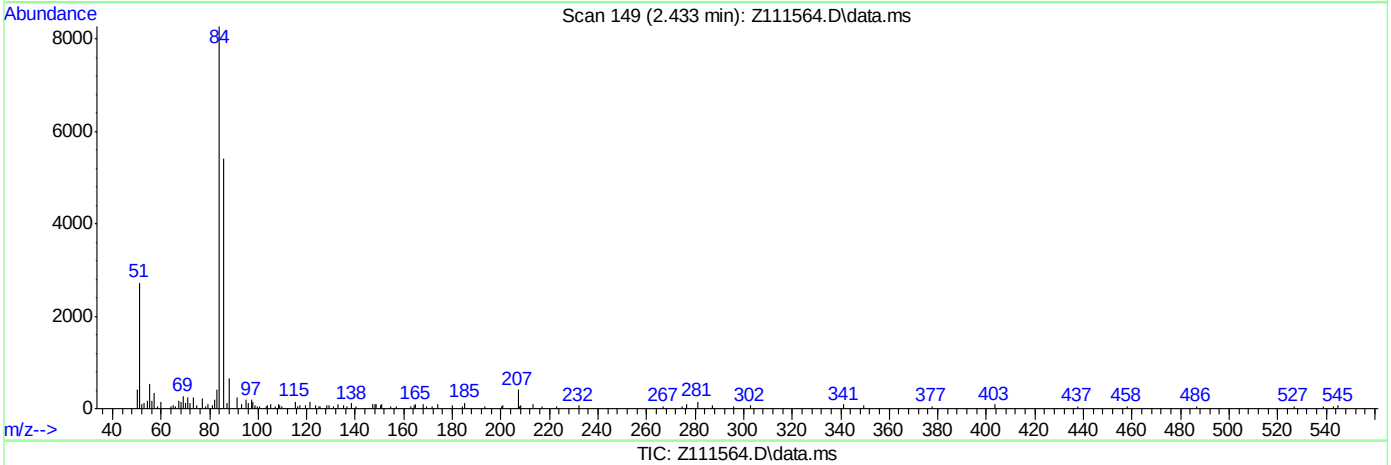
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.75	335	459.60	18	545.40	17		
439.10	154	469.90	19				
439.50	62	470.10	18				
439.90	377	484.50	19				
441.10	8454	494.10	20				
442.10	52888	503.40	23				
443.10	9807	503.80	18				
444.10	999	510.30	23				
444.80	20	523.00	22				
445.10	48	529.90	23				
448.40	18	535.30	18				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:47:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111564.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

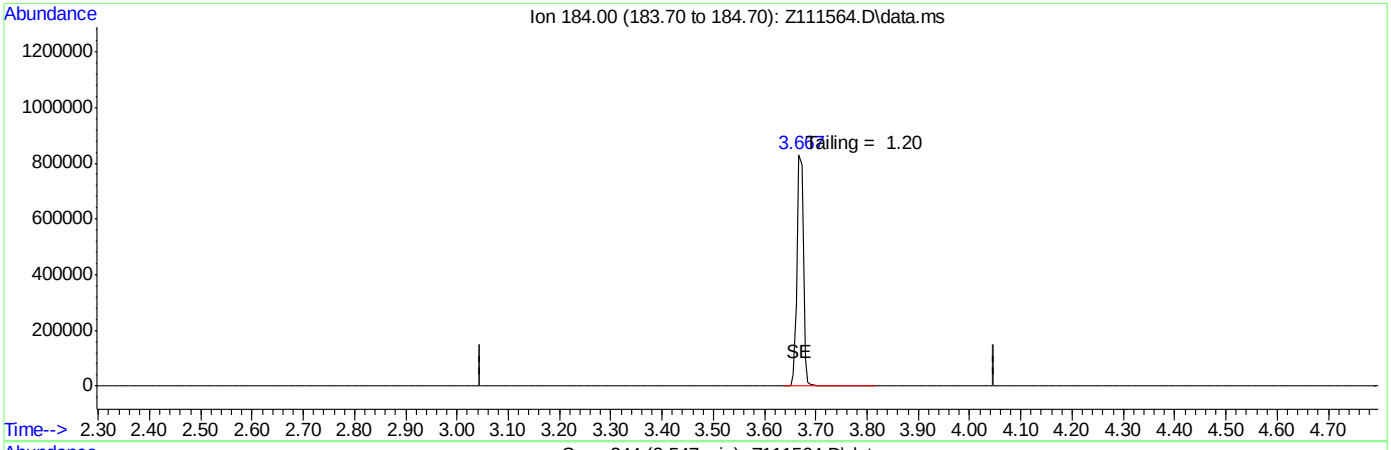
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

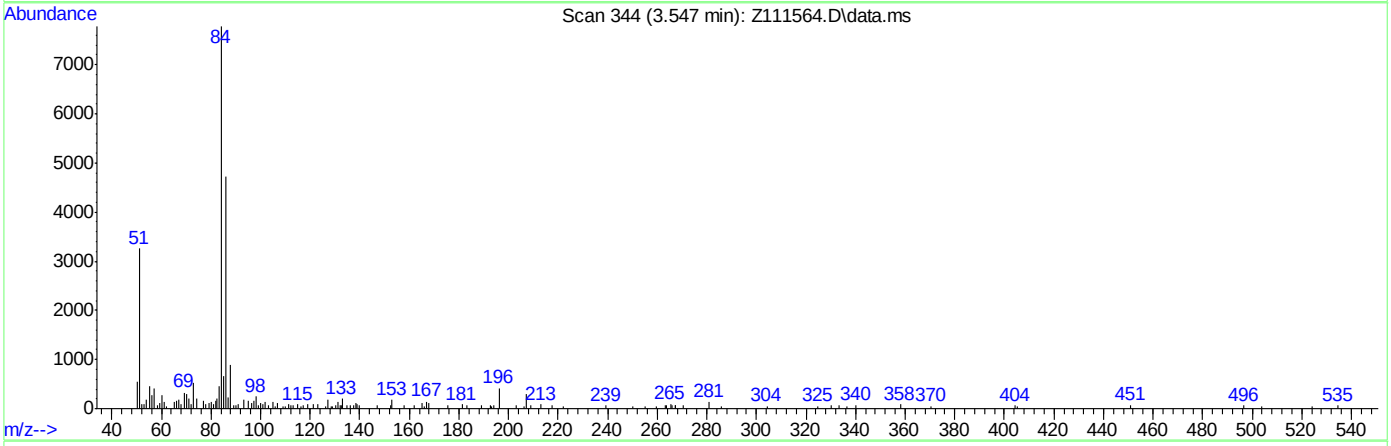
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:47:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111564.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

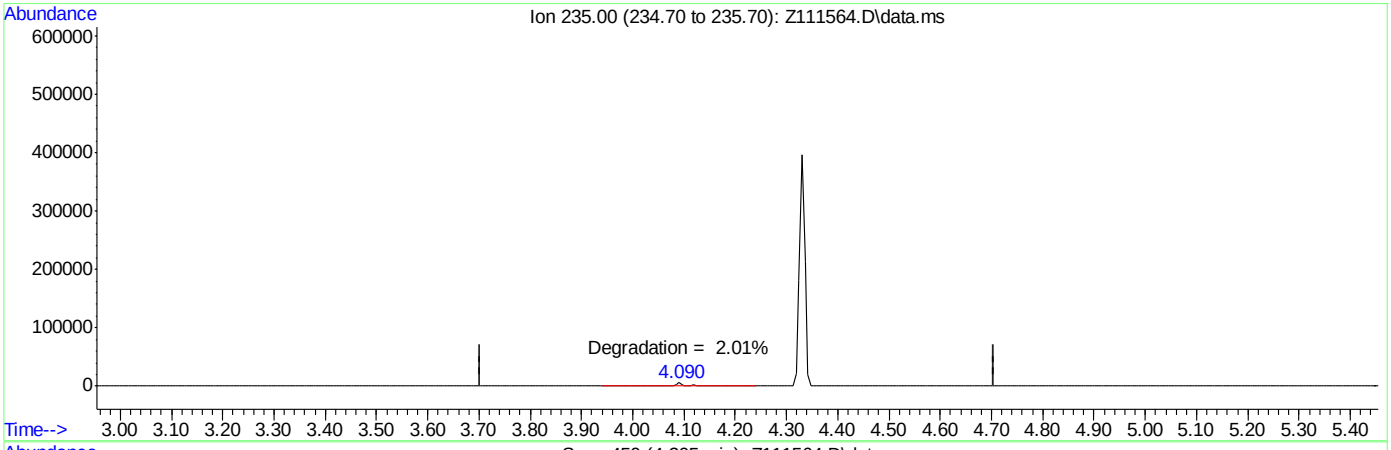
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

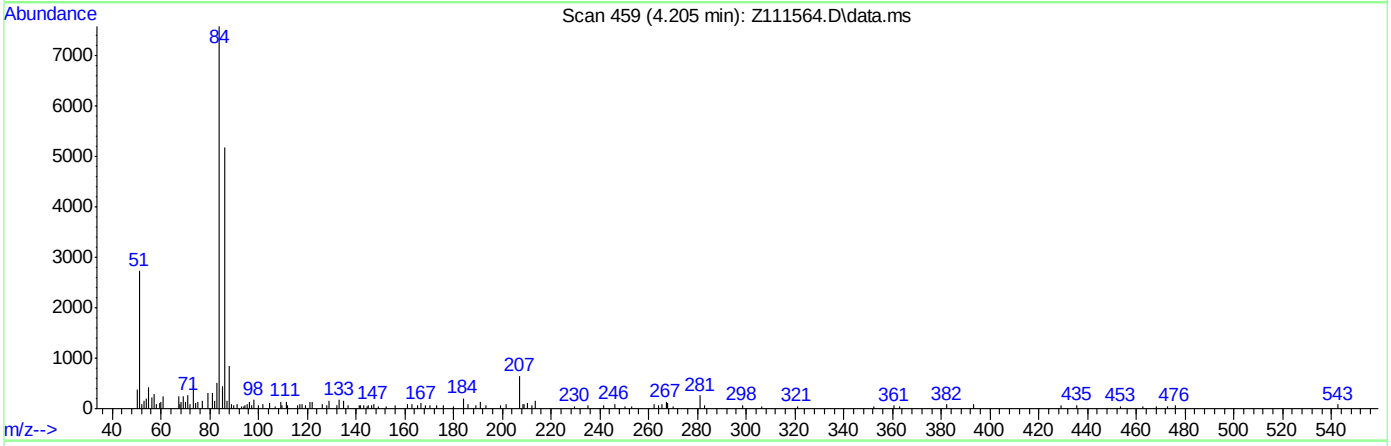
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:47:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111564.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

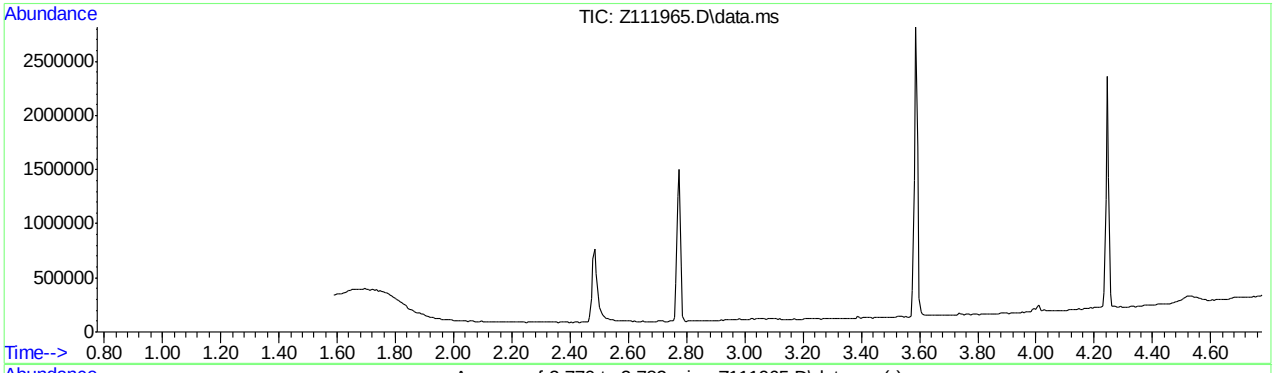
SGS ACCUTEST JC22206

DFTPP

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111965.D
Acq On : 29 Jun 2016 11:40 am
Operator : ariellec
Sample : dftpp
Misc : op94978,ez5596
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 208, 209, 210; Background Corrected with Scan 203

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.6	44707	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.9	61777	PASS
70	69	0.00	2	0.3	191	PASS
127	198	40	60	53.9	64068	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	118917	PASS
199	198	5	9	7.1	8384	PASS
275	198	10	30	23.9	28439	PASS
365	198	1	100	2.1	2516	PASS
441	443	0.01	100	77.2	10766	PASS
442	198	40	100	58.3	69370	PASS
443	442	17	23	20.1	13939	PASS

SGS ACCUTEST JC22206

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	11807	63.15	1993	76.20	1748	88.05	148
51.10	44707	64.05	247	77.10	61263	90.05	105
52.10	2252	65.10	1208	78.10	3998	91.10	635
53.10	342	66.15	218	79.10	4161	92.10	1243
54.40	202	67.25	1183	80.10	3091	93.10	6446
56.10	1186	69.10	61777	81.10	4204	94.10	544
57.15	2876	70.15	191	82.10	843	95.10	77
59.10	79	72.10	98	83.15	983	96.05	20
61.10	523	73.15	532	85.10	1030	98.10	4693
62.10	520	74.10	5418	86.05	1220	99.10	3709
62.30	102	75.10	9288	87.10	405	100.05	299

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
101.05	2244	114.30	90	125.10	953	137.05	665
102.10	113	115.10	147	127.10	64068	138.10	272
103.10	797	116.10	1097	128.05	5133	138.80	48
104.10	1543	117.05	11961	129.05	24968	139.10	101
105.10	1390	118.05	706	130.05	1967	140.10	416
107.05	17826	119.10	159	131.05	338	141.05	2985
108.10	3190	120.10	345	132.15	264	142.05	1003
110.10	35937	121.30	130	134.10	669	143.10	513
111.10	4952	122.10	825	135.10	1728	144.10	236
112.05	619	123.10	1734	136.00	215	145.05	365
113.10	233	124.10	740	136.15	688	146.10	498

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.05	1445	158.00	594	169.05	441	180.10	3186
148.10	3240	159.10	376	170.05	202	181.05	1264
149.05	578	160.10	881	171.15	213	182.00	116
150.05	251	161.10	1404	172.10	298	182.20	66
151.20	232	162.05	309	173.10	670	184.10	262
152.05	434	163.10	74	174.05	1417	185.05	2010
153.05	1002	164.15	298	175.05	2206	186.10	17045
154.10	653	165.05	1028	176.05	730	187.10	4612
155.10	1640	166.10	652	177.00	1045	188.05	535
156.10	2413	167.10	5784	178.10	356	189.05	802
157.10	430	168.10	2574	179.00	4204	189.85	100

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
190.30	69	202.05	97	211.70	85	222.00	158
191.05	549	203.05	830	212.10	138	223.10	1816
192.10	1206	204.10	3901	213.10	197	224.05	16132
193.10	1421	205.10	7280	214.15	74	225.10	3913
194.15	188	206.10	29804	215.00	239	225.95	272
195.05	485	207.10	3989	216.00	602	227.10	6194
196.10	4732	208.05	1256	217.05	6819	228.00	857
198.00	118917	209.05	360	218.05	926	228.95	1297
199.00	8384	210.10	251	219.00	63	230.10	362
200.05	746	210.40	273	219.25	17	231.10	585
201.55	836	211.05	1241	221.05	7500	232.15	31

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
233.25	197	243.10	858	252.00	78	262.05	96
234.05	438	244.10	12581	252.90	121	263.00	75
235.10	448	245.15	1654	253.10	157	264.00	101
235.90	98	246.00	2190	255.10	63994	265.05	1261

DFTPPZ.M Wed Jun 29 11:49:20 2016 RTE Page: 2

236.10	92	247.05	356	256.10	9249	265.85	110
237.00	638	248.05	133	257.10	666	267.10	70
239.00	415	248.30	35	258.05	3172	268.10	76
239.80	52	249.05	416	259.05	496	269.25	74
240.20	59	249.95	149	259.90	130	270.00	145
241.10	279	250.70	24	260.90	36	270.95	237
242.05	809	251.15	163	261.10	34	271.80	55

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.20	83	283.15	202	291.05	145	300.15	53
273.10	1928	284.20	134	292.10	187	300.80	40
274.10	5038	284.50	62	293.00	565	301.15	63
275.10	28439	285.05	507	294.05	227	302.15	179
276.10	3783	285.90	49	294.60	17	303.10	884
277.10	2285	286.30	82	296.05	7041	304.05	297
278.05	396	288.10	65	297.10	1081	305.00	48
278.90	97	288.80	38	298.00	41	306.40	32
279.20	44	289.05	139	298.15	64	307.20	17
280.00	26	290.15	102	299.00	16	308.05	110
282.05	66	290.90	17	299.30	29	308.30	44

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
308.90	33	321.10	193	331.05	45	342.00	133
310.05	107	321.95	49	332.10	203	342.30	31
310.75	60	323.10	2303	332.95	208	346.10	586
312.35	63	324.10	361	334.10	1642	347.25	79
313.10	82	325.50	74	334.90	124	347.60	30
314.10	489	326.10	85	335.15	478	348.20	28
315.00	759	327.05	502	335.90	30	348.70	21
316.05	624	327.90	28	338.70	19	352.10	756
317.05	131	328.15	216	339.00	82	353.15	508
317.60	24	329.10	27	340.50	31	354.10	779
320.30	33	329.95	44	341.10	166	355.10	293

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.15	102	365.05	2516	374.00	42	383.80	28
357.30	23	366.10	480	374.20	57	384.15	158
357.60	17	367.00	53	376.00	60	385.15	90
358.25	44	367.20	28	376.30	70	386.20	25
359.05	130	367.70	17	377.10	46	387.10	19
360.00	22	368.00	24	377.90	22	388.00	18
360.40	19	369.95	77	378.25	44	389.10	16
361.30	76	371.00	99	380.30	29	389.90	64
362.10	18	371.20	48	381.30	23	390.15	132
362.40	17	372.10	1250	381.80	37	390.90	20
363.05	62	373.20	372	383.05	298	391.15	173

Average of 2.770 to 2.782 min.: Z111965.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
391.70	39	404.05	158	421.15	526	430.60	49
392.00	34	405.10	48	422.05	516	431.75	44
392.25	57	410.20	19	423.10	3903	432.20	34
393.40	20	411.80	17	424.05	905	432.50	34
396.30	18	413.20	18	425.00	78	434.25	62
398.30	18	414.00	17	425.20	20	434.50	21
399.80	28	415.10	54	426.05	43	435.80	23
400.30	17	416.50	17	426.70	18	436.35	131
401.00	44	418.30	19	428.40	26	437.05	47
402.05	562	419.00	25	429.10	33	437.40	41
403.10	772	420.00	26	429.70	19	438.10	228

Average of 2.770 to 2.782 min.: Z111965.D\data.ms

DFTPPZ.M Wed Jun 29 11:49:20 2016 RTE Page: 3

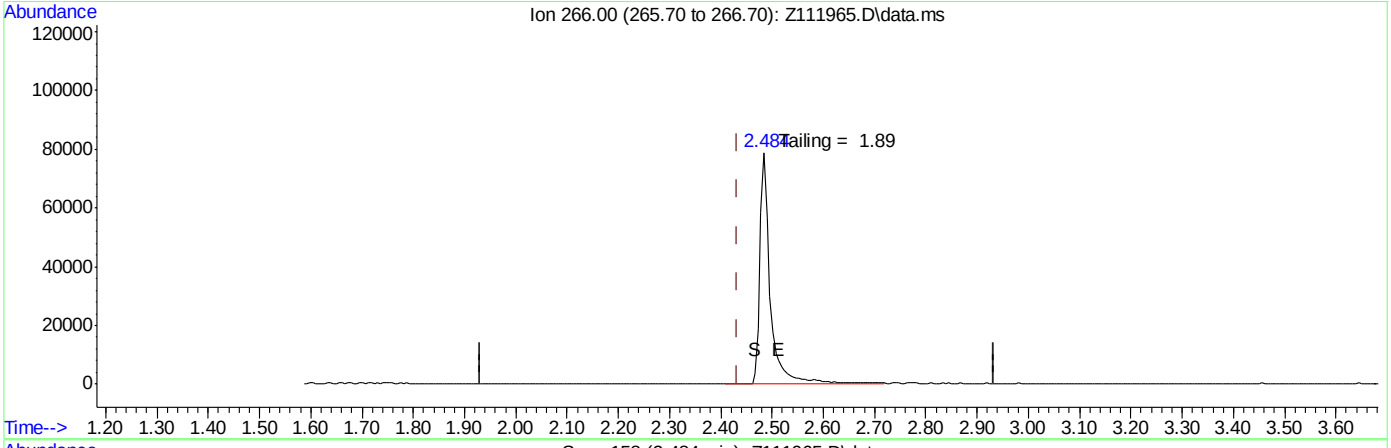
dftpp
Modified:subtracted

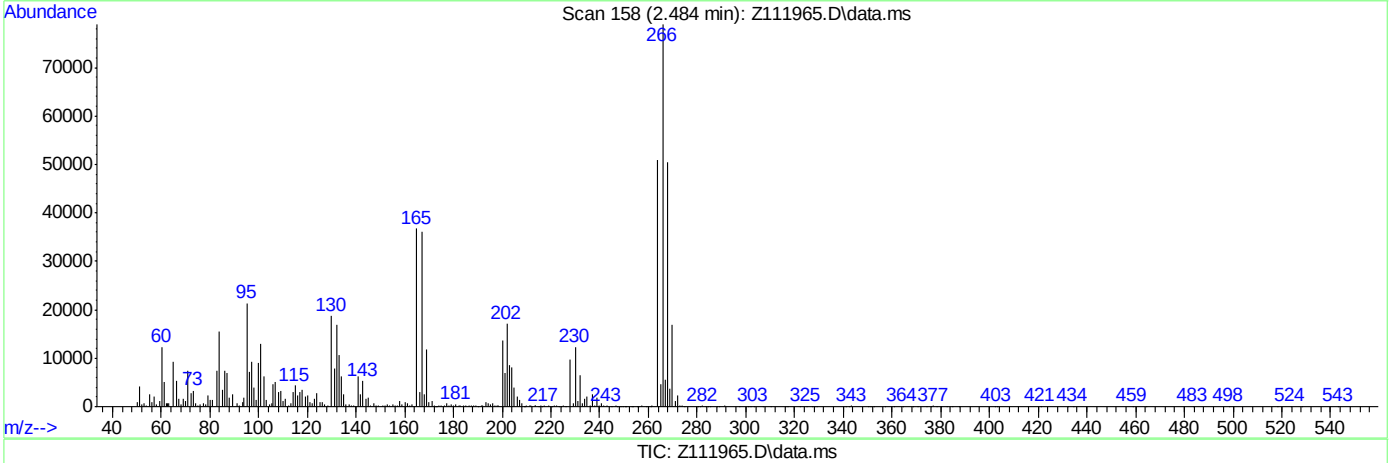
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.60	68	452.20	16				
439.20	72	453.30	19				
439.60	89	454.30	16				
439.90	133	456.80	21				
441.10	10766	458.50	18				
442.10	69370	462.20	42				
443.10	13939	479.00	21				
444.15	1377	480.40	23				
445.00	43	510.00	16				
446.20	23	535.10	20				
446.40	22	543.30	24				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111965.D
Acq On : 29 Jun 2016 11:40 am
Operator : ariellec
Sample : dftpp
Misc : op94978,ez5596
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:46:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111965.D\data.ms

(1) Pentachlorophenol

2.486min (+0.054) 55.16

response 1067709

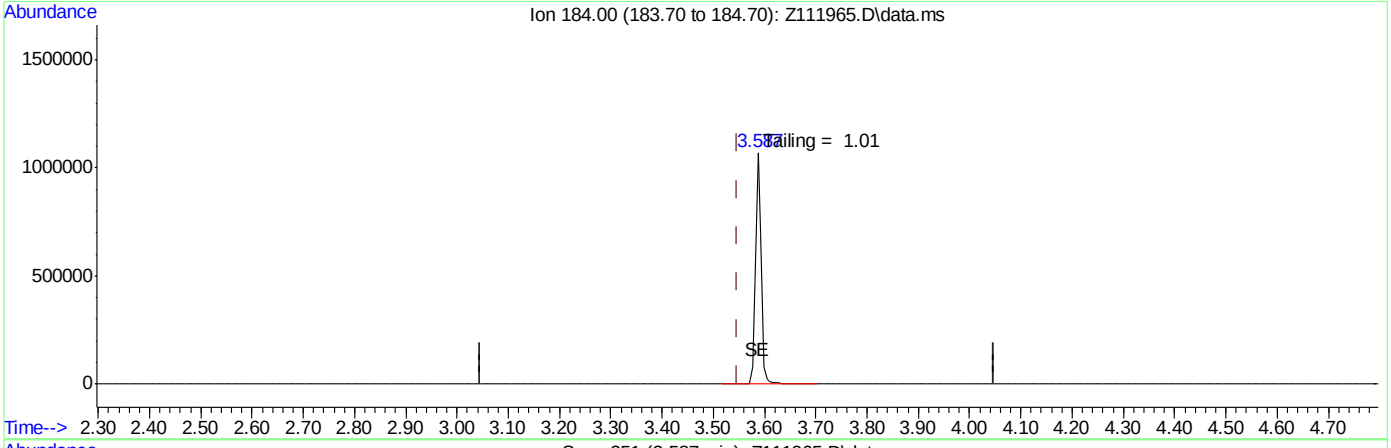
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

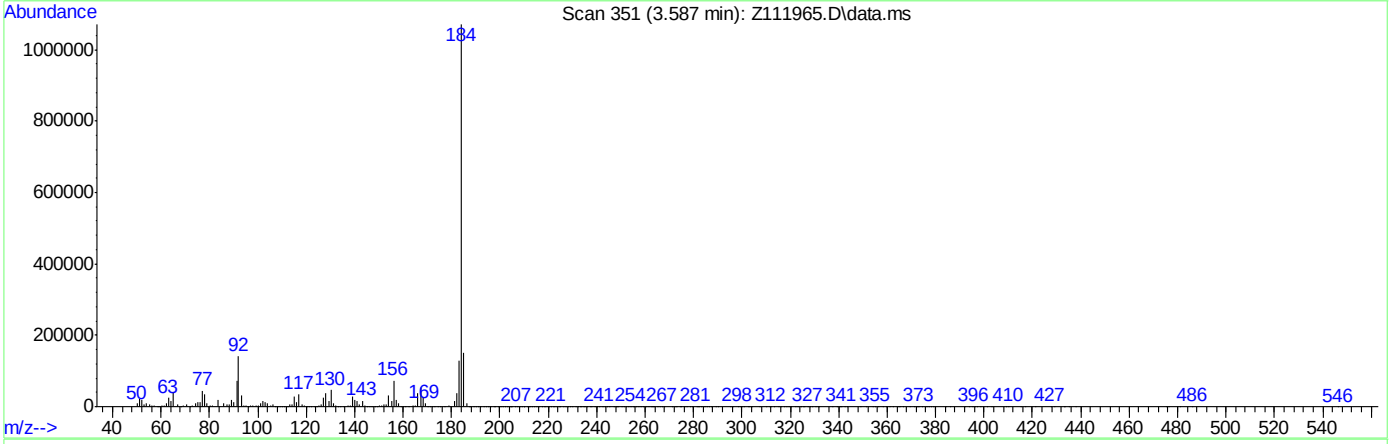
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111965.D
Acq On : 29 Jun 2016 11:40 am
Operator : ariellec
Sample : dftpp
Misc : op94978,ez5596
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:46:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111965.D\data.ms

(2) Benzidine

3.590min (+0.043) 69.08

response 8412748

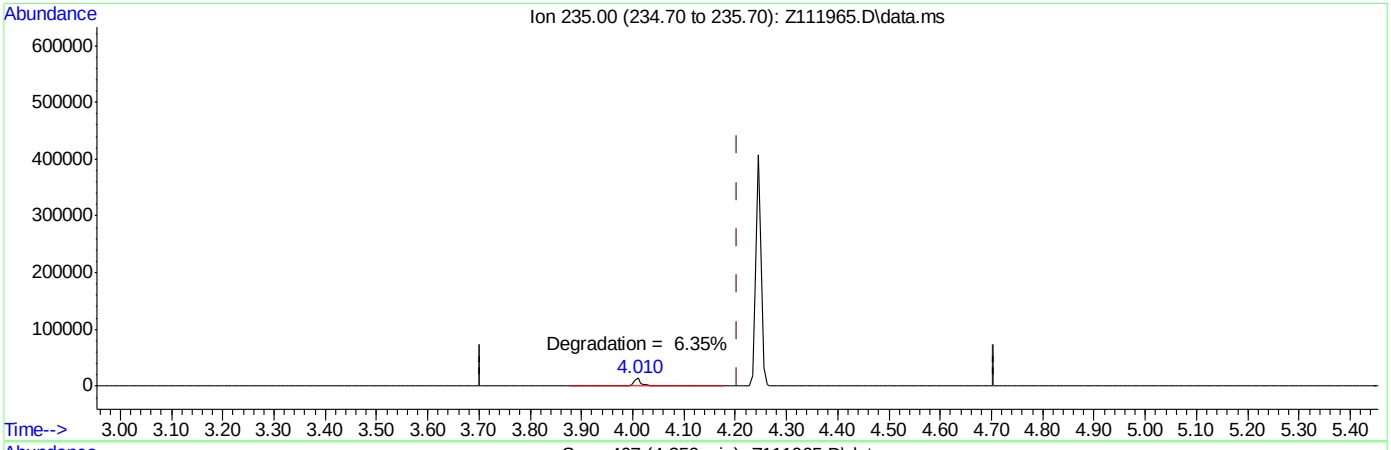
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

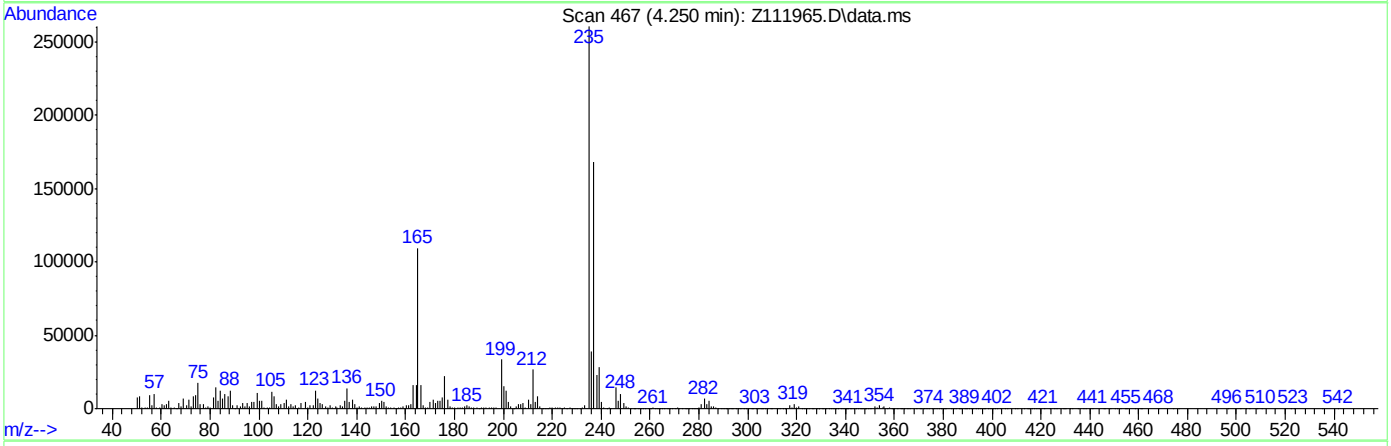
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111965.D
Acq On : 29 Jun 2016 11:40 am
Operator : ariellec
Sample : dftpp
Misc : op94978,ez5596
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 29 11:46:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111965.D\data.ms

(3) PP-DDT

4.248min (+0.043) 55.74

response 3027035

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/09/16 08:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84433.D
Acq On : 7 Jun 2016 9:32 am
Operator : ashleyn
Sample : ic3720-2
Misc : op94122,e2m3720
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 12:16:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.916	152	211897	40.00	ppm	-0.03
24) Naphthalene-d8	6.056	136	840853	40.00	ppm	-0.03
47) Acenaphthene-d10	8.184	164	489816	40.00	ppm	-0.04
69) Phenanthrene-d10	10.404	188	827082	40.00	ppm	-0.03
83) Chrysene-d12	14.624	240	724531	40.00	ppm	-0.03
91) Perylene-d12	16.769	264	556967	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.916	152	211897	40.00	ppm	-0.02
103) Acenaphthene-d10a	8.184	164	489816	40.00	ppm	-0.03
105) Chrysene-d12a	14.624	240	724531	40.00	ppm	-0.02
108) Phenanthrene-d10a	10.404	188	827082	40.00	ppm	-0.03
111) Naphthalene-d8a	6.056	136	840853	40.00	ppm	-0.03
113) Chrysene-d12b	14.624	240	724531	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.954	112	14797	1.97	ppm	-0.02
Spiked Amount 50.000			Recovery = 3.94%			
8) Phenol-d5	4.670	99	20713	2.42	ppm	-0.02
Spiked Amount 50.000			Recovery = 4.84%			
25) Nitrobenzene-d5	5.382	82	18285	2.14	ppm	-0.03
Spiked Amount 50.000			Recovery = 4.28%			
51) 2-Fluorobiphenyl	7.280	172	33481	2.28	ppm	-0.04
Spiked Amount 50.000			Recovery = 4.56%			
73) 2,4,6-Tribromophenol	9.350	330	4744	2.00	ppm	-0.03
Spiked Amount 50.000			Recovery = 4.00%			
85) Terphenyl-d14	12.966	244	34932	2.10	ppm	-0.03
Spiked Amount 50.000			Recovery = 4.20%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.499	88	7009	2.64	ppm		78
6) Indene	5.120	116	30965	2.54	ppm		95
7) Cumene	4.296	105	44735	2.36	ppm		96
9) Phenol	4.681	94	24678	2.30	ppm		95
10) Aniline	4.665	93	25379	2.51	ppm	#	55
11) bis(2-Chloroethyl)ether	4.702	93	16608	2.21	ppm		95
12) 2-Chlorophenol	4.767	128	17217	2.62	ppm		82
13) Decane	4.761	43	19260	3.15	ppm		99
14) 1,3-Dichlorobenzene	4.868	146	18916	2.33	ppm		98
15) 1,4-Dichlorobenzene	4.927	146	19104	2.32	ppm		97
16) Benzyl alcohol	5.034	108	10986	2.36	ppm		87
17) 1,2-Dichlorobenzene	5.050	146	17856	2.40	ppm		96
18) Acetophenone	5.243	105	24753	2.45	ppm		94
19) 2-Methylphenol	5.141	108	16441	2.28	ppm		95
20) 2,2'-oxybis(1-Chloropr...	5.125	45	23450	2.80	ppm		86
21) 3&4-Methylphenol	5.269	108	17610	2.26	ppm		96
22) n-Nitroso-di-n-propyla...	5.232	70	14280	2.62	ppm		98
23) Hexachloroethane	5.328	201	5824	2.17	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84433.D
Acq On : 7 Jun 2016 9:32 am
Operator : ashleyn
Sample : ic3720-2
Misc : op94122,e2m3720
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 12:16:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.398	77	19991	2.28	ppm		84
27) Quinoline	6.435	129	32701	2.23	ppm		97
28) Isophorone	5.601	82	34457	2.31	ppm		96
29) 2-Nitrophenol	5.686	139	9201	2.40	ppm		89
30) 2,4-Dimethylphenol	5.729	107	16413	2.11	ppm		91
31) Benzoic acid	5.831	105	8367	1.54	ppm		79
32) bis(2-Chloroethoxy)met...	5.799	93	19602	2.33	ppm		95
33) 2,4-Dichlorophenol	5.938	162	12754	2.17	ppm		94
34) 2,6-Dichlorophenol	6.146	162	12827	2.27	ppm		88
35) 1,3,5-Trichlorobenzene	5.686	180	15357	2.38	ppm		96
36) 1,2,4-Trichlorobenzene	5.997	180	14628	2.28	ppm		92
37) 1,2,3-Trichlorobenzene	6.221	180	13900	2.20	ppm		98
38) Naphthalene	6.077	128	49603	2.38	ppm		99
39) 4-Chloroaniline	6.141	127	19304	2.43	ppm		91
40) 2,3-Dichloroaniline	7.189	161	17261	2.43	ppm		90
41) Caprolactam	6.489	55	7459	2.06	ppm		92
42) Hexachlorobutadiene	6.184	225	7922	2.23	ppm		98
43) 4-Chloro-3-methylphenol	6.692	107	15580	2.22	ppm		91
44) 2-Methylnaphthalene	6.836	141	28327	2.43	ppm		93
45) 1-Methylnaphthalene	6.954	141	29751	2.44	ppm		96
46) Dimethylnaphthalene	7.617	156	30341	2.38	ppm		92
48) Hexachlorocyclopentadiene	7.013	237	326m	0.12	ppm		
49) 2,4,6-Trichlorophenol	7.200	196	9460	2.18	ppm		93
50) 2,4,5-Trichlorophenol	7.270	196	9548	2.13	ppm		94
52) 2-Chloronaphthalene	7.441	162	29620	2.25	ppm		94
53) Biphenyl	7.414	154	40238	2.28	ppm		99
54) 2-Nitroaniline	7.596	65	11519	2.17	ppm		84
55) Dimethylphthalate	7.821	163	34057	2.24	ppm		96
56) Acenaphthylene	7.992	152	50755	2.29	ppm		100
57) 2,6-Dinitrotoluene	7.917	165	7111	1.96	ppm		91
58) 3-Nitroaniline	8.163	138	7987	1.90	ppm		94
59) Acenaphthene	8.232	153	30361	2.25	ppm		98
60) 2,4-Dinitrophenol	8.361	184	1773	0.96	ppm	#	70
61) 4-Nitrophenol	8.516	109	3247	1.46	ppm	#	1
62) Dibenzofuran	8.478	168	43488	2.35	ppm		81
63) 2,4-Dinitrotoluene	8.505	165	10574	2.15	ppm		80
64) 2,3,4,6-Tetrachlorophenol	8.687	232	5816	1.96	ppm		85
65) Diethylphthalate	8.831	149	34916	2.22	ppm		97
66) Fluorene	8.976	166	33884	2.30	ppm		93
67) 4-Chlorophenyl-phenyle...	8.987	204	15675	2.25	ppm		92
68) 4-Nitroaniline	9.051	138	8945	2.09	ppm		87
70) 4,6-Dinitro-2-methylph...	9.120	198	2197	0.78	ppm		75
71) n-Nitrosodiphenylamine	9.174	169	22960	2.22	ppm		96
72) 1,2-Diphenylhydrazine	9.222	77	38500	2.11	ppm		94
74) 4-Bromophenyl-phenylether	9.719	248	9153	2.10	ppm		96
75) Hexachlorobenzene	9.805	284	10443	2.06	ppm		93
76) Pentachlorophenol	10.147	266	3593	1.92	ppm		99
77) Phenanthrene	10.436	178	50862	2.26	ppm		97
78) Anthracene	10.516	178	51549	2.26	ppm		97
79) Carbazole	10.805	167	46042	2.18	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84433.D
Acq On : 7 Jun 2016 9:32 am
Operator : ashleyn
Sample : ic3720-2
Misc : op94122,e2m3720
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 12:16:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.388	149	61063	2.24 ppm	99
81) Fluoranthene	12.319	202	51912	2.20 ppm	95
82) Octadecane	10.292	57	25377	2.47 ppm	96
84) Pyrene	12.677	202	52832	2.13 ppm	98
86) Butylbenzylphthalate	13.784	149	27045	2.24 ppm	85
87) Benzo[a]anthracene	14.603	228	48887	2.27 ppm	94
88) 3,3'-Dichlorobenzidine	14.603	252	16324	1.87 ppm	97
89) Chrysene	14.661	228	45084	2.24 ppm	100
90) bis(2-Ethylhexyl)phtha...	14.731	149	36113	2.62 ppm	97
92) Di-n-octylphthalate	15.726	149	47514	2.06 ppm	91
93) Benzo[b]fluoranthene	16.229	252	38069	2.04 ppm	95
94) Benzo[k]fluoranthene	16.261	252	34310	2.10 ppm	98
95) Benzo[a]pyrene	16.683	252	31733	2.07 ppm	93
96) Indeno[1,2,3-cd]pyrene	18.518	276	38363	2.03 ppm	94
97) Dibenz(a,h)acridine	18.106	279	29141	2.08 ppm	99
98) Dibenz[a,h]anthracene	18.550	278	32091	1.92 ppm	98
99) 7,12-Dimethylbenz(a)an...	16.207	256	15826	1.89 ppm	97
100) Benzo[g,h,i]perylene	19.026	276	32670	2.07 ppm	98

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

7.6.1

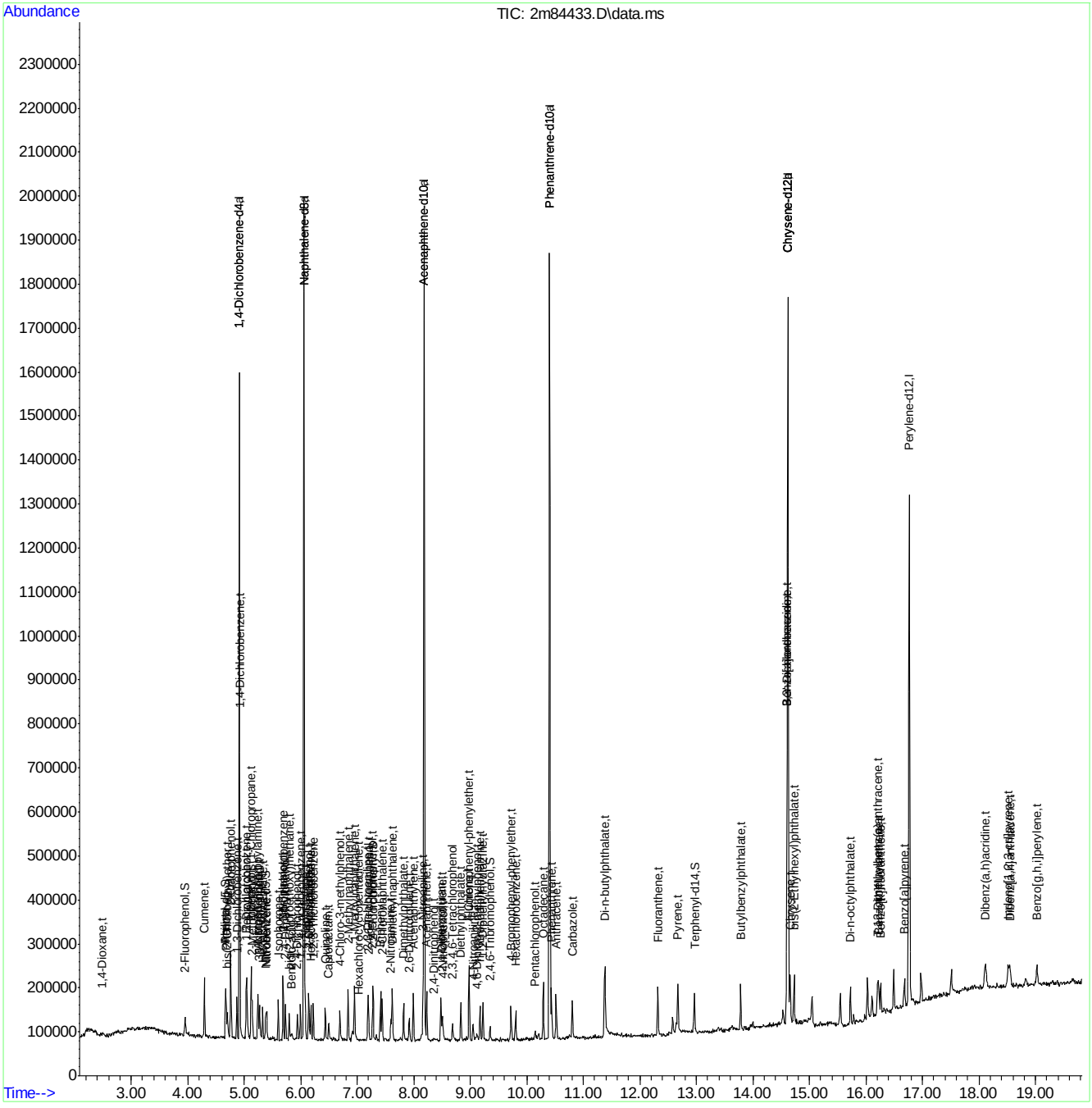
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84433.D
Acq On : 7 Jun 2016 9:32 am
Operator : ashleyn
Sample : ic3720-2
Misc : op94122,e2m3720
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 12:16:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

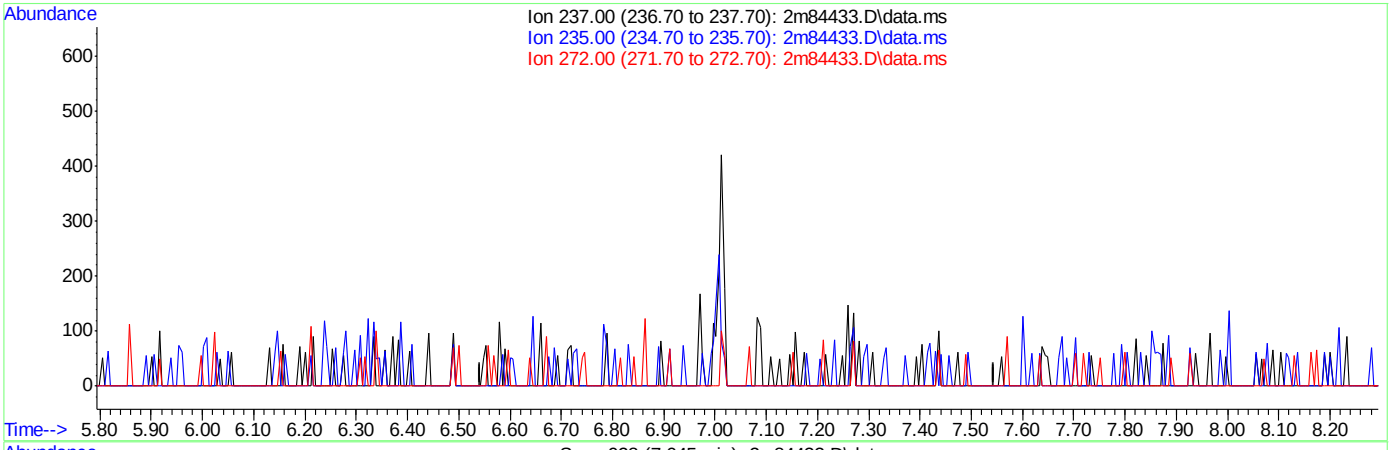
Sample Number:	E2M3720-IC3720	**Method:**	SW846 8270D
Lab FileID:	2M84433.D	**Analyst approved:**	06/07/16 15:49 Ashley Noble
Injection Time:	06/07/16 09:32	**Supervisor approved:**	06/09/16 08:50 Kristi Schollenberger

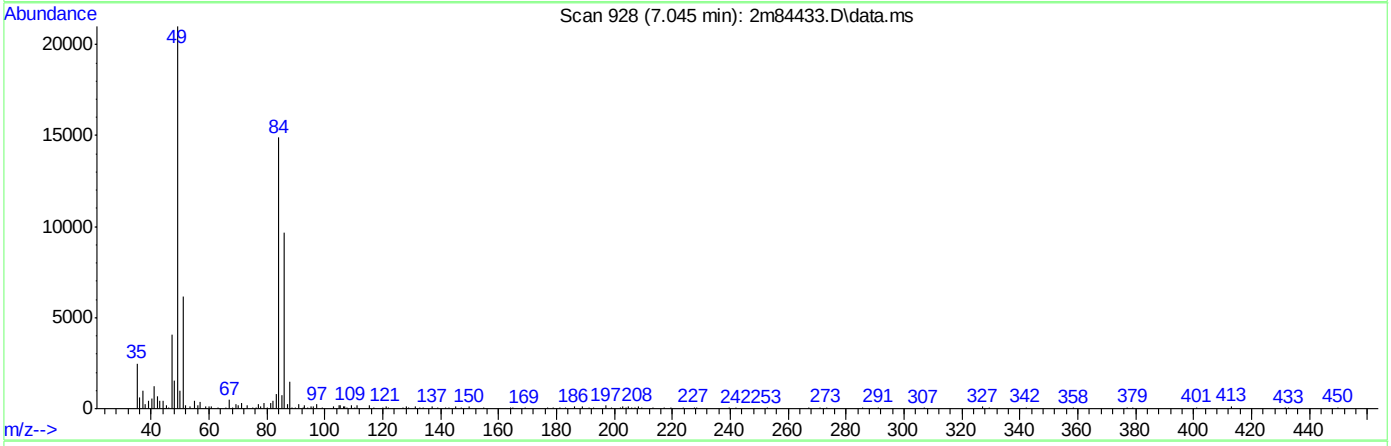
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorocyclopentadiene	77-47-4		7.01	Poor instrument integration

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84433.D
Acq On    :  7 Jun 2016   9:32 am
Operator  : ashleyn
Sample    : ic3720-2
Misc      : op94122,e2m3720
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jun 07 12:15:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title  : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration
```





TIC: 2m84433.D\data.ms

(48) Hexachlorocyclopentadiene (t)

7.044min (-7.044) 0.00ppm

response 0

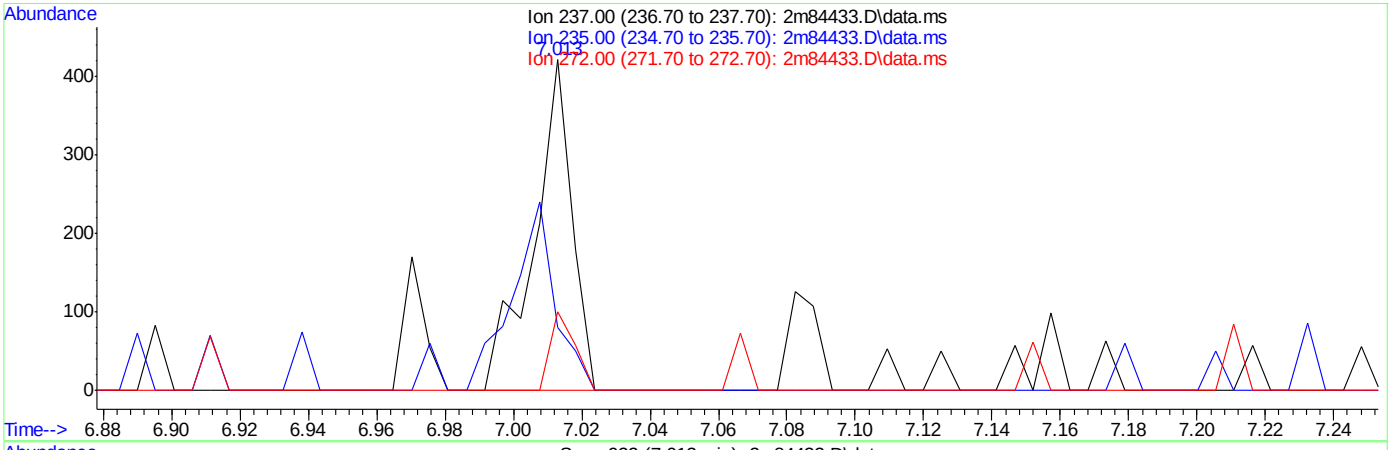
Ion	Exp%	Act%
237.00	100	0.00
235.00	64.30	0.00#
272.00	13.20	0.00
0.00	0.00	0.00

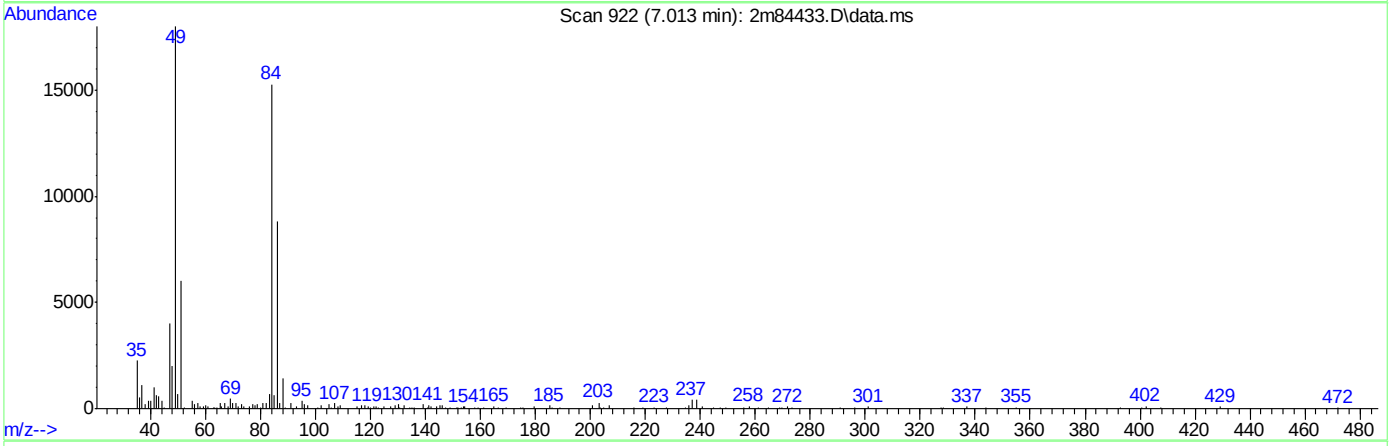
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84433.D
Acq On    :  7 Jun 2016   9:32 am
Operator  : ashleyn
Sample    : ic3720-2
Misc      : op94122,e2m3720
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jun 07 12:15:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title  : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration
```





TIC: 2m84433.D\data.ms

(48) Hexachlorocyclopentadiene (t)

7.013min (-0.031) 0.12ppm m

response 326

Ion	Exp%	Act%
237.00	100	100
235.00	64.30	19.00#
272.00	13.20	23.75
0.00	0.00	0.00

SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/09/16 08:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84434.D
Acq On : 7 Jun 2016 9:59 am
Operator : ashleyn
Sample : ic3720-1
Misc : op94122,e2m3720
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 12:19:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:17:59 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	209238	40.00 ppm	-0.03
24) Naphthalene-d8	6.055	136	837459	40.00 ppm	-0.03
47) Acenaphthene-d10	8.184	164	485439	40.00 ppm	-0.04
69) Phenanthrene-d10	10.399	188	830898	40.00 ppm	-0.04
83) Chrysene-d12	14.624	240	766719	40.00 ppm	-0.03
91) Perylene-d12	16.769	264	562472	40.00 ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.911	152	209238	40.00 ppm	-0.03
103) Acenaphthene-d10a	8.184	164	485439	40.00 ppm	-0.03
105) Chrysene-d12a	14.624	240	766719	40.00 ppm	-0.02
108) Phenanthrene-d10a	10.399	188	830898	40.00 ppm	-0.03
111) Naphthalene-d8a	6.055	136	837459	40.00 ppm	-0.03
113) Chrysene-d12b	14.624	240	767099	40.00 ppm	-0.02

System Monitoring Compounds					
5) 2-Fluorophenol	3.953	112	7269	0.99 ppm	-0.02
Spiked Amount 50.000			Recovery = 1.98%		
8) Phenol-d5	4.670	99	9948	1.07 ppm	-0.02
Spiked Amount 50.000			Recovery = 2.14%		
25) Nitrobenzene-d5	5.382	82	10864	1.23 ppm	-0.03
Spiked Amount 50.000			Recovery = 2.46%		
51) 2-Fluorobiphenyl	7.280	172	17154	1.10 ppm	-0.04
Spiked Amount 50.000			Recovery = 2.20%		
73) 2,4,6-Tribromophenol	9.350	330	2212	0.93 ppm	-0.03
Spiked Amount 50.000			Recovery = 1.86%		
85) Terphenyl-d14	12.961	244	19450	1.08 ppm	-0.04
Spiked Amount 50.000			Recovery = 2.16%		
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds						Qvalue
2) 1,4-Dioxane	2.499	88	2769	0.91 ppm		70
6) Indene	5.119	116	15729	1.15 ppm		95
7) Cumene	4.296	105	21970	1.08 ppm		91
9) Phenol	4.681	94	12011	1.06 ppm		92
10) Aniline	4.665	93	12212	1.08 ppm	#	42
11) bis(2-Chloroethyl)ether	4.702	93	9447	1.21 ppm		89
12) 2-Chlorophenol	4.766	128	8923	1.19 ppm		78
13) Decane	4.761	43	10829	1.39 ppm		94
14) 1,3-Dichlorobenzene	4.868	146	9513	1.10 ppm		98
15) 1,4-Dichlorobenzene	4.927	146	8821	1.01 ppm		91
16) Benzyl alcohol	5.039	108	5342	1.07 ppm		95
17) 1,2-Dichlorobenzene	5.050	146	9012	1.11 ppm		93
18) Acetophenone	5.248	105	12180	1.10 ppm		96
19) 2-Methylphenol	5.141	108	7547	0.99 ppm		92
20) 2,2'-oxybis(1-Chloropr...	5.125	45	11662	1.18 ppm		88
21) 3&4-Methylphenol	5.269	108	8548	1.04 ppm		88
22) n-Nitroso-di-n-propyla...	5.232	70	6990	1.12 ppm		99
23) Hexachloroethane	5.328	201	2762	1.00 ppm		83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84434.D
Acq On : 7 Jun 2016 9:59 am
Operator : ashleyn
Sample : ic3720-1
Misc : op94122,e2m3720
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 12:19:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:17:59 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
26) Nitrobenzene	5.398	77	9972	1.07 ppm		89
27) Quinoline	6.435	129	16759	1.09 ppm		94
28) Isophorone	5.601	82	17213	1.08 ppm		96
29) 2-Nitrophenol	5.686	139	4273	1.02 ppm		94
30) 2,4-Dimethylphenol	5.729	107	9072	1.14 ppm		97
31) Benzoic acid	5.836	105	3447	0.72 ppm		83
32) bis(2-Chloroethoxy)met...	5.799	93	10060	1.11 ppm		98
33) 2,4-Dichlorophenol	5.938	162	6805	1.12 ppm		85
34) 2,6-Dichlorophenol	6.146	162	6657	1.11 ppm		92
35) 1,3,5-Trichlorobenzene	5.686	180	7871	1.12 ppm		82
36) 1,2,4-Trichlorobenzene	5.991	180	7714	1.13 ppm		96
37) 1,2,3-Trichlorobenzene	6.221	180	7443	1.13 ppm		96
38) Naphthalene	6.077	128	25944	1.14 ppm		95
39) 4-Chloroaniline	6.141	127	9224	1.05 ppm		88
40) 2,3-Dichloroaniline	7.189	161	8513	1.09 ppm		92
41) Caprolactam	6.494	55	5033	1.37 ppm	#	77
42) Hexachlorobutadiene	6.184	225	4493	1.20 ppm		91
43) 4-Chloro-3-methylphenol	6.692	107	7588	1.03 ppm		93
44) 2-Methylnaphthalene	6.836	141	14283	1.11 ppm		96
45) 1-Methylnaphthalene	6.954	141	14562	1.08 ppm		97
46) Dimethylnaphthalene	7.617	156	14894	1.07 ppm		92
49) 2,4,6-Trichlorophenol	7.200	196	4914	1.09 ppm		82
50) 2,4,5-Trichlorophenol	7.270	196	5030	1.10 ppm		98
52) 2-Chloronaphthalene	7.441	162	15680	1.13 ppm		96
53) Biphenyl	7.409	154	20861	1.12 ppm		97
54) 2-Nitroaniline	7.591	65	6285	1.15 ppm	#	73
55) Dimethylphthalate	7.821	163	17156	1.07 ppm		96
56) Acenaphthylene	7.992	152	25557	1.08 ppm		96
57) 2,6-Dinitrotoluene	7.922	165	3838	1.08 ppm		81
58) 3-Nitroaniline	8.163	138	4224	1.04 ppm	#	68
59) Acenaphthene	8.227	153	16196	1.14 ppm		93
61) 4-Nitrophenol	8.521	109	1704	0.90 ppm	#	1
62) Dibenzofuran	8.478	168	22311	1.12 ppm		91
63) 2,4-Dinitrotoluene	8.505	165	5250	1.04 ppm		88
64) 2,3,4,6-Tetrachlorophenol	8.687	232	2884	0.99 ppm		91
65) Diethylphthalate	8.831	149	18871	1.15 ppm		96
66) Fluorene	8.976	166	17602	1.12 ppm		93
67) 4-Chlorophenyl-phenyle...	8.987	204	8032	1.09 ppm		95
68) 4-Nitroaniline	9.051	138	4161	0.96 ppm		86
70) 4,6-Dinitro-2-methylph...	9.120	198	855m	0.43 ppm		
71) n-Nitrosodiphenylamine	9.168	169	11816	1.08 ppm		89
72) 1,2-Diphenylhydrazine	9.222	77	19374	1.03 ppm		94
74) 4-Bromophenyl-phenylether	9.719	248	4885	1.09 ppm		93
75) Hexachlorobenzene	9.805	284	5527	1.07 ppm		94
76) Pentachlorophenol	10.153	266	1374	0.99 ppm	#	68
77) Phenanthrene	10.436	178	26867	1.12 ppm		96
78) Anthracene	10.516	178	26167	1.07 ppm		98
79) Carbazole	10.805	167	24654	1.11 ppm		98
80) Di-n-butylphthalate	11.383	149	30267	1.04 ppm		98
81) Fluoranthene	12.319	202	25825	1.04 ppm		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84434.D
Acq On : 7 Jun 2016 9:59 am
Operator : ashleyn
Sample : ic3720-1
Misc : op94122,e2m3720
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 12:19:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:17:59 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	10.292	57	12654	1.10 ppm	95
84) Pyrene	12.672	202	28266	1.04 ppm	97
86) Butylbenzylphthalate	13.784	149	13866	1.02 ppm	87
87) Benzo[a]anthracene	14.608	228	28621	1.18 ppm	98
88) 3,3'-Dichlorobenzidine	14.597	252	9701	1.09 ppm	92
89) Chrysene	14.661	228	25486	1.13 ppm	97
90) bis(2-Ethylhexyl)phtha...	14.726	149	19890	1.18 ppm	90
92) Di-n-octylphthalate	15.720	149	26452	1.12 ppm	95
93) Benzo[b]fluoranthene	16.223	252	20455	1.08 ppm	92
94) Benzo[k]fluoranthene	16.261	252	18018	1.06 ppm	95
95) Benzo[a]pyrene	16.683	252	17265	1.10 ppm	93
96) Indeno[1,2,3-cd]pyrene	18.512	276	19733	1.03 ppm	94
97) Dibenz(a,h)acridine	18.101	279	14511	1.01 ppm	100
98) Dibenz[a,h]anthracene	18.550	278	16802	1.02 ppm	96
99) 7,12-Dimethylbenz(a)an...	16.207	256	7886	0.96 ppm	96
100) Benzo[g,h,i]perylene	19.026	276	16832	1.04 ppm	95

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

7.6.2

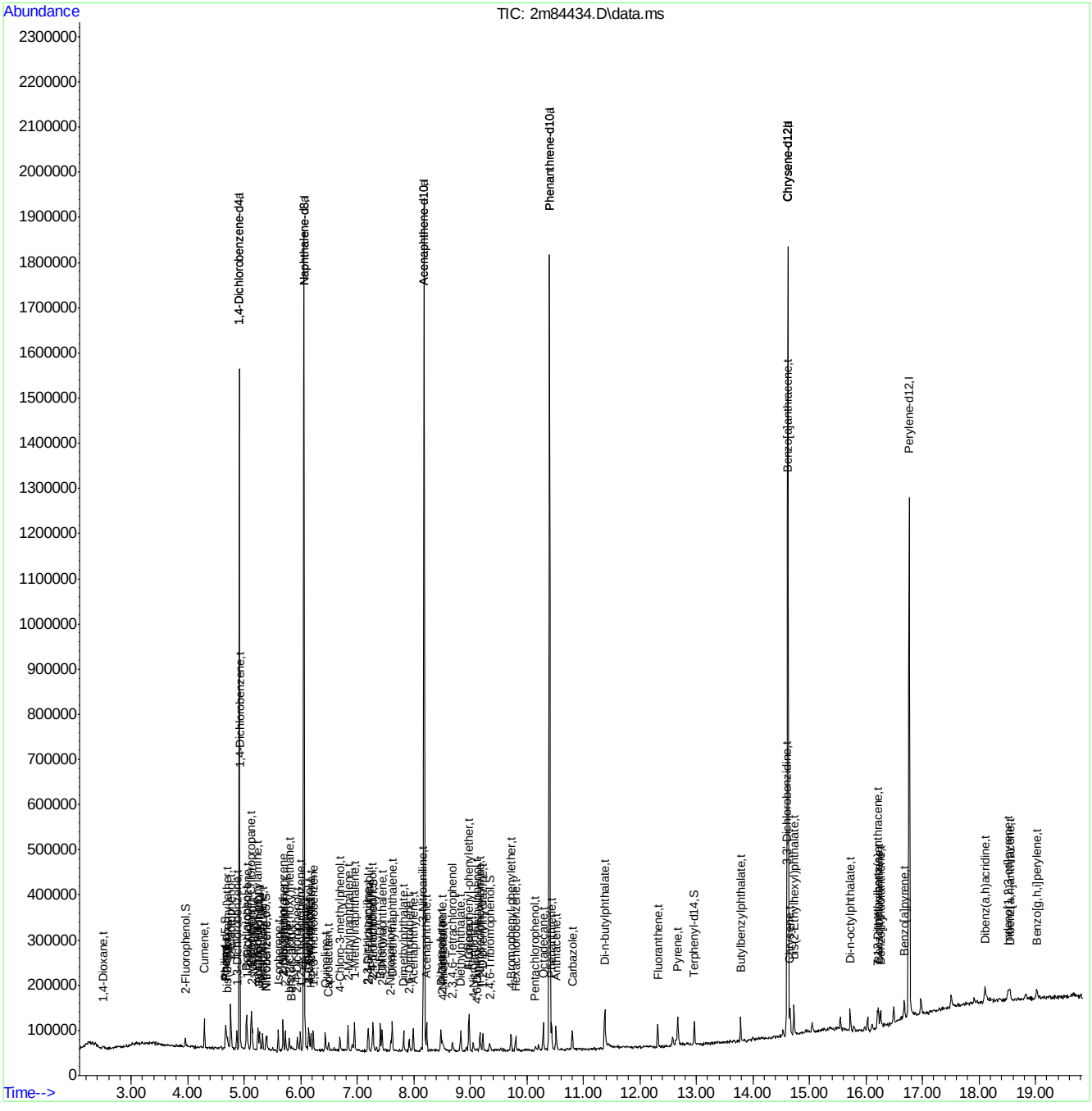
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84434.D
Acq On : 7 Jun 2016 9:59 am
Operator : ashleyn
Sample : ic3720-1
Misc : op94122,e2m3720
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 12:19:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:17:59 2016
Response via : Initial Calibration



Manual Integration Approval Summary

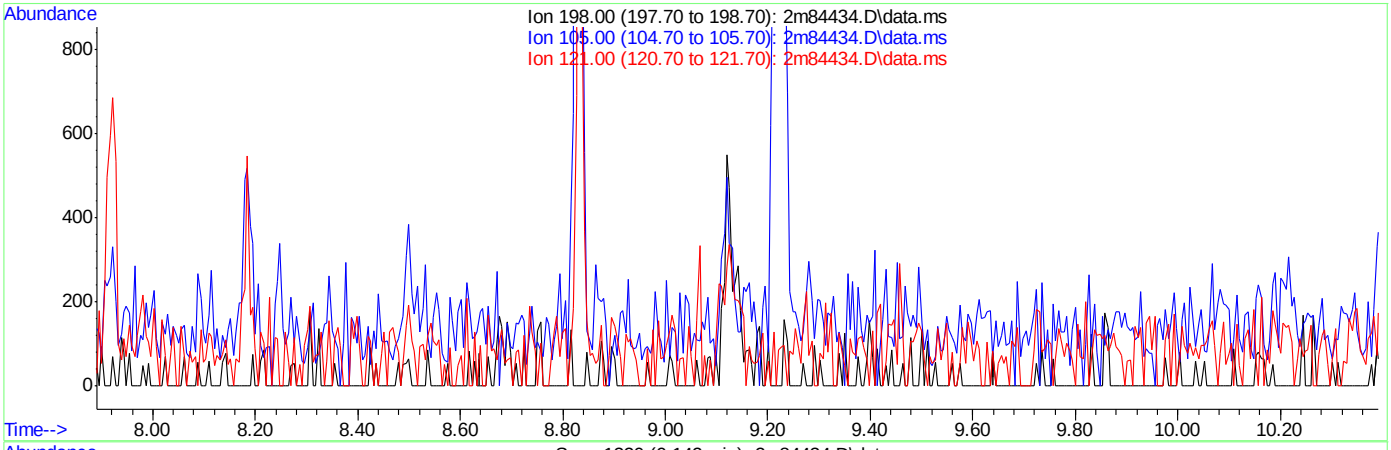
Sample Number:	E2M3720-IC3720	**Method:**	SW846 8270D
Lab FileID:	2M84434.D	**Analyst approved:**	06/07/16 15:49 Ashley Noble
Injection Time:	06/07/16 09:59	**Supervisor approved:**	06/09/16 08:50 Kristi Schollenberger

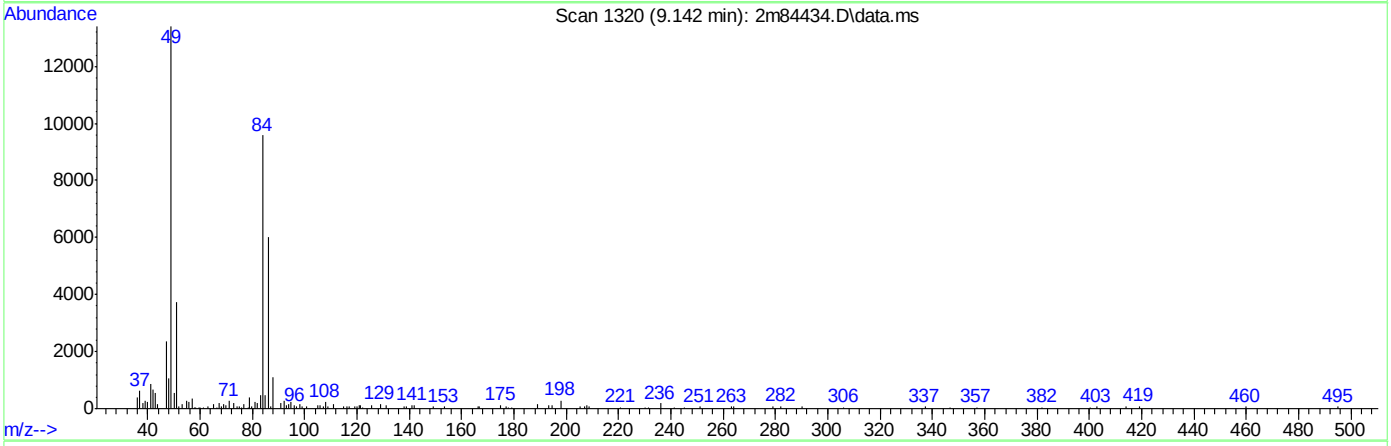
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,6-Dinitro-o-cresol	534-52-1		9.12	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84434.D
Acq On : 7 Jun 2016 9:59 am
Operator : ashleyn
Sample : ic3720-1
Misc : op94122,e2m3720
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 12:18:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:17:59 2016
Response via : Initial Calibration





TIC: 2m84434.D\data.ms

(70) 4,6-Dinitro-2-methylphenol (t)

9.141min (-9.141) 0.00ppm

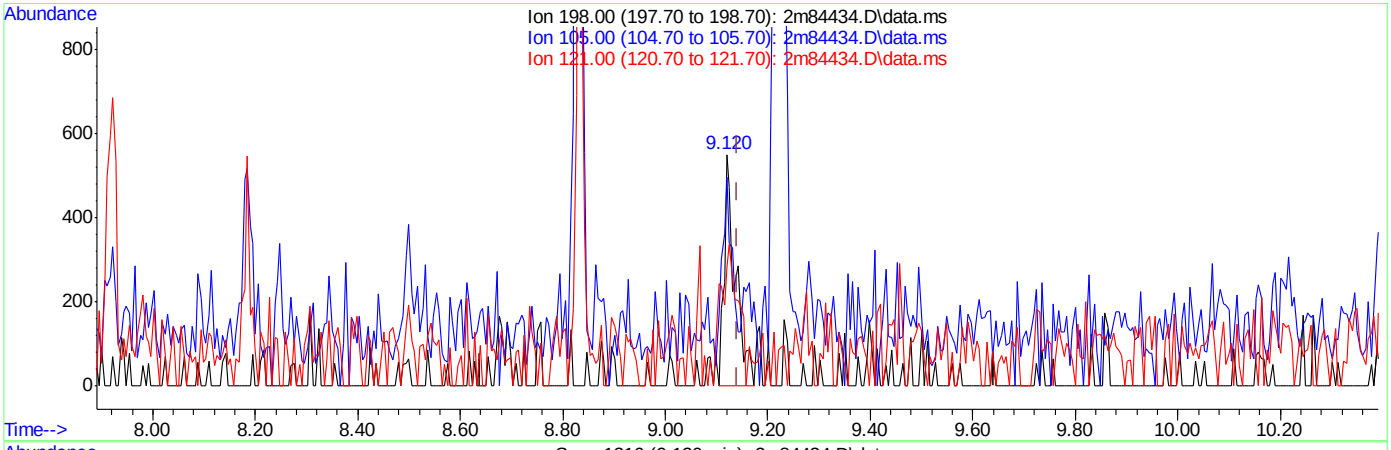
response 0

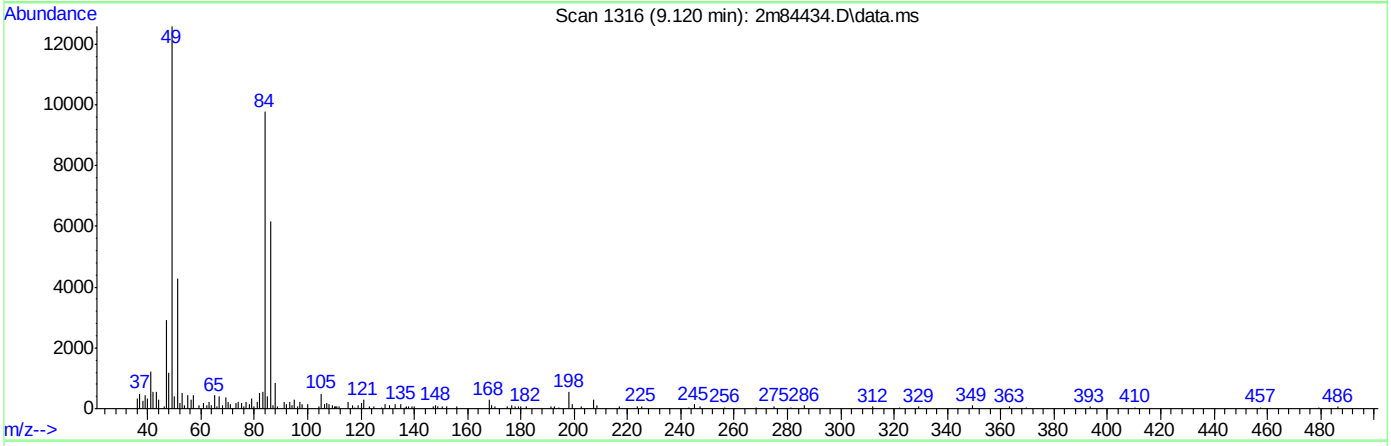
Ion	Exp%	Act%
198.00	100	0.00
105.00	56.40	0.00#
121.00	48.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84434.D
Acq On : 7 Jun 2016 9:59 am
Operator : ashleyn
Sample : ic3720-1
Misc : op94122,e2m3720
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 12:18:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:17:59 2016
Response via : Initial Calibration





TIC: 2m84434.D\data.ms

(70) 4,6-Dinitro-2-methylphenol (t)

9.120min (-0.021) 0.43ppm m

response 855

Ion	Exp%	Act%
198.00	100	100
105.00	56.40	90.00#
121.00	48.90	51.45
0.00	0.00	0.00

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84435.D
Acq On : 7 Jun 2016 10:26 am
Operator : ashleyn
Sample : ic3720-100
Misc : op94122,e2m3720
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 12:14:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.916	152	187400	40.00	ppm	-0.03
24) Naphthalene-d8	6.056	136	761743	40.00	ppm	-0.03
47) Acenaphthene-d10	8.190	164	438011	40.00	ppm	-0.03
69) Phenanthrene-d10	10.409	188	737628	40.00	ppm	-0.03
83) Chrysene-d12	14.635	240	637918	40.00	ppm	-0.02
91) Perylene-d12	16.774	264	485474	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.916	152	187400	40.00	ppm	-0.02
103) Acenaphthene-d10a	8.190	164	438011	40.00	ppm	-0.03
105) Chrysene-d12a	14.635	240	637918	40.00	ppm	-0.01
108) Phenanthrene-d10a	10.409	188	737628	40.00	ppm	-0.02
111) Naphthalene-d8a	6.056	136	761743	40.00	ppm	-0.03
113) Chrysene-d12b	14.635	240	638050	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.948	112	663064	100.00	ppm	-0.03
Spiked Amount 50.000			Recovery	=	200.00%	
8) Phenol-d5	4.670	99	755598	100.00	ppm	-0.02
Spiked Amount 50.000			Recovery	=	200.00%	
25) Nitrobenzene-d5	5.387	82	775708	100.00	ppm	-0.03
Spiked Amount 50.000			Recovery	=	200.00%	
51) 2-Fluorobiphenyl	7.286	172	1313244	100.00	ppm	-0.03
Spiked Amount 50.000			Recovery	=	200.00%	
73) 2,4,6-Tribromophenol	9.356	330	211760	100.00	ppm	-0.03
Spiked Amount 50.000			Recovery	=	200.00%	
85) Terphenyl-d14	12.971	244	1463502	100.00	ppm	-0.03
Spiked Amount 50.000			Recovery	=	200.00%	
107) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds							Qvalue
2) 1,4-Dioxane	2.483	88	234710	100.00	ppm		92
6) Indene	5.125	116	1077025	100.00	ppm		100
7) Cumene	4.296	105	1679549	100.00	ppm		98
9) Phenol	4.681	94	947178	100.00	ppm		96
10) Aniline	4.665	93	894326	100.00	ppm	#	53
11) bis(2-Chloroethyl)ether	4.708	93	663232	100.00	ppm		95
12) 2-Chlorophenol	4.767	128	580098	100.00	ppm		87
13) Decane	4.767	43	540114	100.00	ppm		93
14) 1,3-Dichlorobenzene	4.868	146	719352	100.00	ppm		99
15) 1,4-Dichlorobenzene	4.927	146	726949	100.00	ppm		99
16) Benzyl alcohol	5.039	108	410995	100.00	ppm		93
17) 1,2-Dichlorobenzene	5.050	146	659300	100.00	ppm		99
18) Acetophenone	5.248	105	894056	100.00	ppm		93
19) 2-Methylphenol	5.146	108	638854	100.00	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.130	45	739818	100.00	ppm		84
21) 3&4-Methylphenol	5.269	108	687628	100.00	ppm		99
22) n-Nitroso-di-n-propyla...	5.248	70	482277	100.00	ppm		91
23) Hexachloroethane	5.328	201	237315	100.00	ppm		90

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84435.D
Acq On : 7 Jun 2016 10:26 am
Operator : ashleyn
Sample : ic3720-100
Misc : op94122,e2m3720
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 12:14:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.403	77	795833	100.00	ppm		93
27) Quinoline	6.457	129	1327136	100.00	ppm		97
28) Isophorone	5.612	82	1351436	100.00	ppm		94
29) 2-Nitrophenol	5.687	139	346605	100.00	ppm		99
30) 2,4-Dimethylphenol	5.735	107	705705	100.00	ppm		97
31) Benzoic acid	5.895	105	492053	100.00	ppm		91
32) bis(2-Chloroethoxy)met...	5.804	93	761320	100.00	ppm		98
33) 2,4-Dichlorophenol	5.938	162	531447	100.00	ppm		94
34) 2,6-Dichlorophenol	6.152	162	512948	100.00	ppm		96
35) 1,3,5-Trichlorobenzene	5.692	180	584333	100.00	ppm		99
36) 1,2,4-Trichlorobenzene	5.997	180	582111	100.00	ppm		98
37) 1,2,3-Trichlorobenzene	6.227	180	572483	100.00	ppm		98
38) Naphthalene	6.082	128	1885185	100.00	ppm		99
39) 4-Chloroaniline	6.141	127	721044	100.00	ppm		95
40) 2,3-Dichloroaniline	7.189	161	643651	100.00	ppm		94
41) Caprolactam	6.553	55	328340	100.00	ppm		90
42) Hexachlorobutadiene	6.184	225	321808	100.00	ppm		99
43) 4-Chloro-3-methylphenol	6.703	107	636377	100.00	ppm		94
44) 2-Methylnaphthalene	6.842	141	1058083	100.00	ppm		99
45) 1-Methylnaphthalene	6.959	141	1105077	100.00	ppm		99
46) Dimethylnaphthalene	7.628	156	1153306	100.00	ppm		97
48) Hexachlorocyclopentadiene	7.013	237	470704	200.00	ppm		98
49) 2,4,6-Trichlorophenol	7.206	196	387546	100.00	ppm		98
50) 2,4,5-Trichlorophenol	7.270	196	399975	100.00	ppm		99
52) 2-Chloronaphthalene	7.446	162	1178710	100.00	ppm		99
53) Biphenyl	7.419	154	1575350	100.00	ppm		100
54) 2-Nitroaniline	7.601	65	475090	100.00	ppm		87
55) Dimethylphthalate	7.831	163	1359047	100.00	ppm		100
56) Acenaphthylene	7.997	152	1985425	100.00	ppm		100
57) 2,6-Dinitrotoluene	7.933	165	324818	100.00	ppm		90
58) 3-Nitroaniline	8.174	138	375992	100.00	ppm		83
59) Acenaphthene	8.238	153	1206449	100.00	ppm		99
60) 2,4-Dinitrophenol	8.339	184	329862	200.00	ppm		91
61) 4-Nitrophenol	8.495	109	198312	100.00	ppm	#	29
62) Dibenzofuran	8.484	168	1657258	100.00	ppm		92
63) 2,4-Dinitrotoluene	8.511	165	439998	100.00	ppm		94
64) 2,3,4,6-Tetrachlorophenol	8.687	232	265857	100.00	ppm		98
65) Diethylphthalate	8.848	149	1405422	100.00	ppm		99
66) Fluorene	8.987	166	1320233	100.00	ppm		98
67) 4-Chlorophenyl-phenyle...	8.992	204	623331	100.00	ppm		100
68) 4-Nitroaniline	9.072	138	382202	100.00	ppm		96
70) 4,6-Dinitro-2-methylph...	9.126	198	252805	100.00	ppm	#	57
71) n-Nitrosodiphenylamine	9.185	169	923024	100.00	ppm		99
72) 1,2-Diphenylhydrazine	9.233	77	1628154	100.00	ppm		90
74) 4-Bromophenyl-phenylether	9.730	248	387868	100.00	ppm		97
75) Hexachlorobenzene	9.816	284	453129	100.00	ppm		95
76) Pentachlorophenol	10.147	266	334430	200.00	ppm		98
77) Phenanthrene	10.447	178	2004078	100.00	ppm		99
78) Anthracene	10.527	178	2036423	100.00	ppm		100
79) Carbazole	10.810	167	1883897	100.00	ppm		100

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84435.D
Acq On : 7 Jun 2016 10:26 am
Operator : ashleyn
Sample : ic3720-100
Misc : op94122,e2m3720
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 12:14:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.394	149	2425786	100.00 ppm	100
81) Fluoranthene	12.330	202	2100618	100.00 ppm	93
82) Octadecane	10.297	57	916063	100.00 ppm	93
84) Pyrene	12.683	202	2184526	100.00 ppm	99
86) Butylbenzylphthalate	13.790	149	1064244	100.00 ppm	87
87) Benzo[a]anthracene	14.619	228	1897872	100.00 ppm	99
88) 3,3'-Dichlorobenzidine	14.608	252	766840	100.00 ppm	99
89) Chrysene	14.678	228	1772403	100.00 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.731	149	1212703	100.00 ppm	98
92) Di-n-octylphthalate	15.731	149	2009072	100.00 ppm	93
93) Benzo[b]fluoranthene	16.250	252	1623093	100.00 ppm	96
94) Benzo[k]fluoranthene	16.288	252	1425857	100.00 ppm	97
95) Benzo[a]pyrene	16.699	252	1336705	100.00 ppm	95
96) Indeno[1,2,3-cd]pyrene	18.550	276	1643935	100.00 ppm	91
97) Dibenz(a,h)acridine	18.127	279	1219459	100.00 ppm	99
98) Dibenz[a,h]anthracene	18.577	278	1453509	100.00 ppm	97
99) 7,12-Dimethylbenz(a)an...	16.229	256	729697	100.00 ppm	97
100) Benzo[g,h,i]perylene	19.063	276	1376824	100.00 ppm	95

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

7.6.3

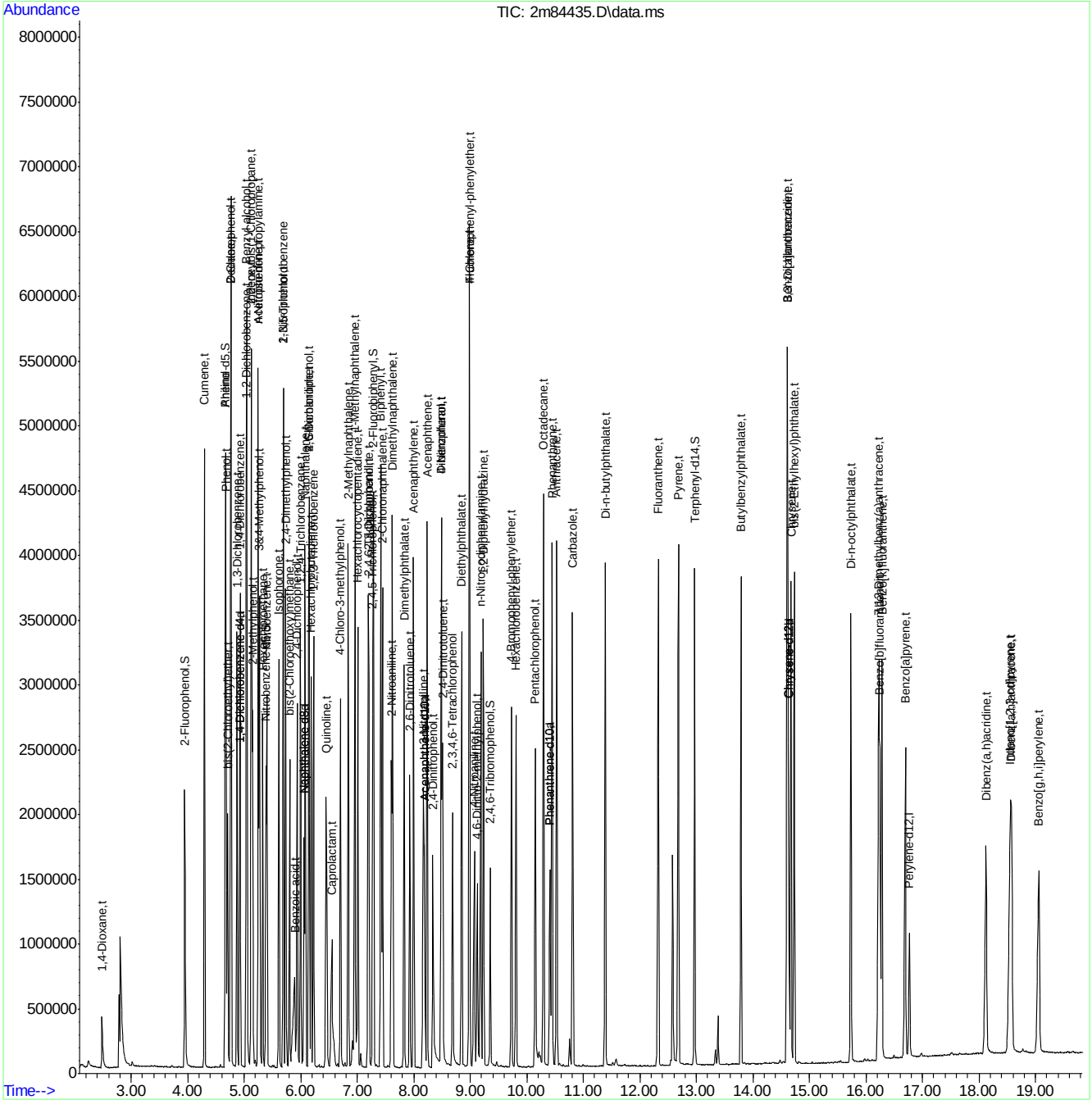
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84435.D
Acq On : 7 Jun 2016 10:26 am
Operator : ashleyn
Sample : ic3720-100
Misc : op94122,e2m3720
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 12:14:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:13:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84436.D
Acq On : 7 Jun 2016 10:52 am
Operator : ashleyn
Sample : ic3720-80
Misc : op94122,e2m3720
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 12:23:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:20:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.916	152	198404	40.00	ppm	-0.03
24) Naphthalene-d8	6.055	136	794410	40.00	ppm	-0.03
47) Acenaphthene-d10	8.189	164	458355	40.00	ppm	-0.03
69) Phenanthrene-d10	10.404	188	774117	40.00	ppm	-0.03
83) Chrysene-d12	14.629	240	687353	40.00	ppm	-0.02
91) Perylene-d12	16.769	264	504606	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.916	152	198404	40.00	ppm	-0.02
103) Acenaphthene-d10a	8.189	164	458355	40.00	ppm	-0.03
105) Chrysene-d12a	14.629	240	687353	40.00	ppm	-0.02
108) Phenanthrene-d10a	10.404	188	774117	40.00	ppm	-0.03
111) Naphthalene-d8a	6.055	136	794410	40.00	ppm	-0.03
113) Chrysene-d12b	14.629	240	687353	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.948	112	564429	81.25	ppm	-0.03
Spiked Amount 50.000			Recovery = 162.50%			
8) Phenol-d5	4.665	99	651252	72.02	ppm	-0.03
Spiked Amount 50.000			Recovery = 144.04%			
25) Nitrobenzene-d5	5.387	82	652883	72.45	ppm	-0.03
Spiked Amount 50.000			Recovery = 144.90%			
51) 2-Fluorobiphenyl	7.286	172	1110188	73.03	ppm	-0.03
Spiked Amount 50.000			Recovery = 146.06%			
73) 2,4,6-Tribromophenol	9.350	330	174847	80.66	ppm	-0.03
Spiked Amount 50.000			Recovery = 161.32%			
85) Terphenyl-d14	12.966	244	1255851	75.69	ppm	-0.03
Spiked Amount 50.000			Recovery = 151.38%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.482	88	200379	71.63	ppm		91
6) Indene	5.125	116	946605	69.58	ppm		99
7) Cumene	4.296	105	1444495	72.76	ppm		97
9) Phenol	4.675	94	818147	74.44	ppm		97
10) Aniline	4.665	93	778524	70.93	ppm	#	58
11) bis(2-Chloroethyl)ether	4.708	93	577030	72.87	ppm		94
12) 2-Chlorophenol	4.766	128	508993	67.38	ppm		86
13) Decane	4.766	43	482301	57.87	ppm		95
14) 1,3-Dichlorobenzene	4.868	146	610938	71.90	ppm		99
15) 1,4-Dichlorobenzene	4.927	146	617533	74.09	ppm		99
16) Benzyl alcohol	5.039	108	366542	75.52	ppm		98
17) 1,2-Dichlorobenzene	5.050	146	563723	70.80	ppm		99
18) Acetophenone	5.248	105	782650	72.02	ppm		92
19) 2-Methylphenol	5.146	108	544690	75.59	ppm		98
20) 2,2'-oxybis(1-Chloropr...	5.130	45	653671	65.65	ppm		82
21) 3&4-Methylphenol	5.269	108	591013	75.03	ppm		99
22) n-Nitroso-di-n-propyla...	5.248	70	422369	68.79	ppm		94
23) Hexachloroethane	5.328	201	201729	77.01	ppm		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84436.D
Acq On : 7 Jun 2016 10:52 am
Operator : ashleyn
Sample : ic3720-80
Misc : op94122,e2m3720
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 12:23:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:20:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.403	77	688824	75.97	ppm		92
27) Quinoline	6.451	129	1125096	74.70	ppm		98
28) Isophorone	5.611	82	1162944	74.71	ppm		95
29) 2-Nitrophenol	5.686	139	299911	74.89	ppm		99
30) 2,4-Dimethylphenol	5.734	107	600005	75.89	ppm		95
31) Benzoic acid	5.884	105	407084	98.86	ppm		94
32) bis(2-Chloroethoxy)met...	5.804	93	654469	73.42	ppm		98
33) 2,4-Dichlorophenol	5.938	162	453686	75.52	ppm		93
34) 2,6-Dichlorophenol	6.152	162	443111	75.00	ppm		95
35) 1,3,5-Trichlorobenzene	5.692	180	505486	72.86	ppm		98
36) 1,2,4-Trichlorobenzene	5.997	180	496050	73.31	ppm		98
37) 1,2,3-Trichlorobenzene	6.227	180	483203	73.97	ppm		99
38) Naphthalene	6.077	128	1626985	72.09	ppm		99
39) 4-Chloroaniline	6.141	127	632409	74.73	ppm		95
40) 2,3-Dichloroaniline	7.189	161	546518	71.47	ppm		95
41) Caprolactam	6.547	55	277537	71.03	ppm		89
42) Hexachlorobutadiene	6.184	225	269499	71.17	ppm		98
43) 4-Chloro-3-methylphenol	6.703	107	543268	76.90	ppm		93
44) 2-Methylnaphthalene	6.836	141	911556	72.03	ppm		99
45) 1-Methylnaphthalene	6.959	141	950974	72.42	ppm		99
46) Dimethylnaphthalene	7.623	156	991511	73.47	ppm		98
48) Hexachlorocyclopentadiene	7.013	237	393304	309.80	ppm		98
49) 2,4,6-Trichlorophenol	7.205	196	324451	74.18	ppm		96
50) 2,4,5-Trichlorophenol	7.270	196	337952	75.65	ppm		99
52) 2-Chloronaphthalene	7.446	162	1010658	73.95	ppm		99
53) Biphenyl	7.419	154	1346264	73.42	ppm		100
54) 2-Nitroaniline	7.601	65	404546	74.48	ppm		84
55) Dimethylphthalate	7.831	163	1145858	74.16	ppm		99
56) Acenaphthylene	7.997	152	1701144	74.33	ppm		99
57) 2,6-Dinitrotoluene	7.927	165	272609	79.02	ppm		96
58) 3-Nitroaniline	8.168	138	320295	82.41	ppm		80
59) Acenaphthene	8.238	153	1036454	73.82	ppm		99
60) 2,4-Dinitrophenol	8.339	184	267496	249.92	ppm		87
61) 4-Nitrophenol	8.494	109	164925	95.09	ppm	#	23
62) Dibenzofuran	8.484	168	1424852	72.75	ppm		91
63) 2,4-Dinitrotoluene	8.510	165	376135	77.77	ppm		88
64) 2,3,4,6-Tetrachlorophenol	8.687	232	220357	80.36	ppm		98
65) Diethylphthalate	8.847	149	1199821	73.67	ppm		98
66) Fluorene	8.981	166	1142130	74.02	ppm		99
67) 4-Chlorophenyl-phenyle...	8.986	204	538251	75.31	ppm		98
68) 4-Nitroaniline	9.067	138	326719	80.91	ppm		96
70) 4,6-Dinitro-2-methylph...	9.120	198	210099	140.76	ppm	#	56
71) n-Nitrosodiphenylamine	9.184	169	784542	74.86	ppm		99
72) 1,2-Diphenylhydrazine	9.232	77	1392923	78.62	ppm		90
74) 4-Bromophenyl-phenylether	9.725	248	329924	76.70	ppm		99
75) Hexachlorobenzene	9.810	284	387760	78.64	ppm		99
76) Pentachlorophenol	10.147	266	269652	250.01	ppm		98
77) Phenanthrene	10.447	178	1715919	73.68	ppm		99
78) Anthracene	10.527	178	1746299	74.98	ppm		99
79) Carbazole	10.810	167	1591589	74.27	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84436.D
Acq On : 7 Jun 2016 10:52 am
Operator : ashleyn
Sample : ic3720-80
Misc : op94122,e2m3720
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 12:23:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:20:10 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.393	149	2069074	75.48 ppm	99
81) Fluoranthene	12.324	202	1792212	76.37 ppm	93
82) Octadecane	10.297	57	798689	72.00 ppm	95
84) Pyrene	12.682	202	1845881	74.90 ppm	99
86) Butylbenzylphthalate	13.790	149	913243	74.60 ppm	85
87) Benzo[a]anthracene	14.613	228	1654123	71.61 ppm	100
88) 3,3'-Dichlorobenzidine	14.608	252	666257	80.91 ppm	98
89) Chrysene	14.672	228	1534658	72.70 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.731	149	1071269	66.92 ppm	98
92) Di-n-octylphthalate	15.731	149	1671853	75.84 ppm	94
93) Benzo[b]fluoranthene	16.245	252	1328307	75.95 ppm	96
94) Benzo[k]fluoranthene	16.282	252	1236849	79.75 ppm	97
95) Benzo[a]pyrene	16.694	252	1115909	76.51 ppm	96
96) Indeno[1,2,3-cd]pyrene	18.544	276	1365966	78.55 ppm	92
97) Dibenz(a,h)acridine	18.122	279	1016875	78.43 ppm	98
98) Dibenz[a,h]anthracene	18.571	278	1201037	80.57 ppm	96
99) 7,12-Dimethylbenz(a)an...	16.223	256	605197	83.18 ppm	98
100) Benzo[g,h,i]perylene	19.058	276	1150183	78.05 ppm	95

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

7.6.4

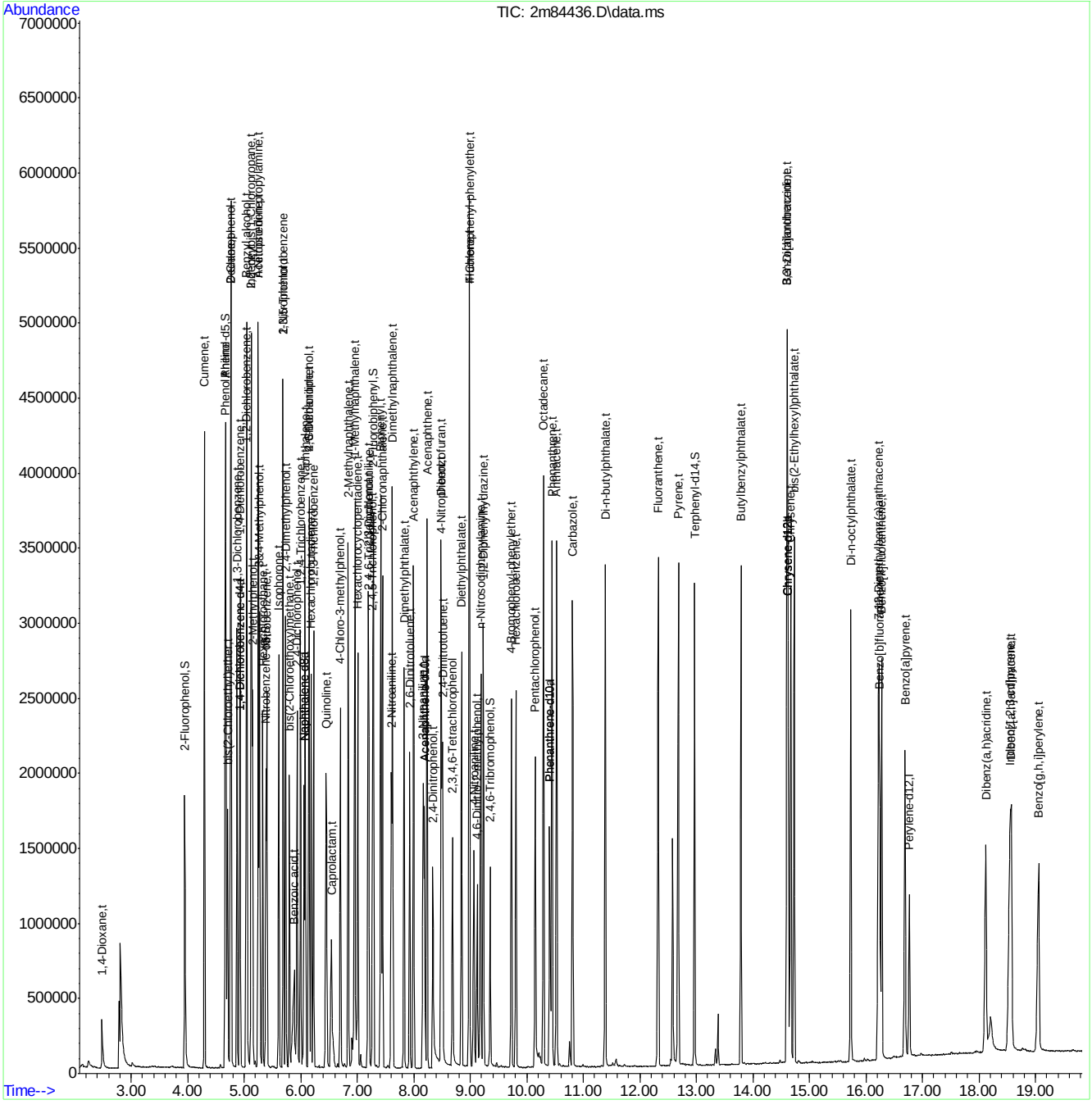
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84436.D
Acq On : 7 Jun 2016 10:52 am
Operator : ashleyn
Sample : ic3720-80
Misc : op94122,e2m3720
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 12:23:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:20:10 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84437.D
Acq On : 7 Jun 2016 11:18 am
Operator : ashleyn
Sample : icc3720-50
Misc : op94122,e2m3720
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 12:24:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:23:29 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	199484	40.00	ppm	-0.03
24) Naphthalene-d8	6.056	136	799622	40.00	ppm	-0.03
47) Acenaphthene-d10	8.184	164	465905	40.00	ppm	-0.04
69) Phenanthrene-d10	10.404	188	788910	40.00	ppm	-0.03
83) Chrysene-d12	14.624	240	724302	40.00	ppm	-0.03
91) Perylene-d12	16.769	264	518225	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.911	152	199484	40.00	ppm	-0.03
103) Acenaphthene-d10a	8.184	164	465905	40.00	ppm	-0.03
105) Chrysene-d12a	14.624	240	724302	40.00	ppm	-0.02
108) Phenanthrene-d10a	10.404	188	788910	40.00	ppm	-0.03
111) Naphthalene-d8a	6.056	136	799622	40.00	ppm	-0.03
113) Chrysene-d12b	14.624	240	724302	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.948	112	354083	50.50	ppm	-0.03
Spiked Amount 50.000			Recovery = 101.00%			
8) Phenol-d5	4.665	99	432579	48.79	ppm	-0.03
Spiked Amount 50.000			Recovery = 97.58%			
25) Nitrobenzene-d5	5.382	82	428039	48.33	ppm	-0.03
Spiked Amount 50.000			Recovery = 96.66%			
51) 2-Fluorobiphenyl	7.280	172	710492	47.00	ppm	-0.04
Spiked Amount 50.000			Recovery = 94.00%			
73) 2,4,6-Tribromophenol	9.350	330	108421	48.98	ppm	-0.03
Spiked Amount 50.000			Recovery = 97.96%			
85) Terphenyl-d14	12.966	244	803088	46.56	ppm	-0.03
Spiked Amount 50.000			Recovery = 93.12%			
107) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.488	88	124555	45.47	ppm		91
6) Indene	5.119	116	626054	47.31	ppm		100
7) Cumene	4.296	105	930232	47.68	ppm		97
9) Phenol	4.676	94	533928	49.17	ppm		98
10) Aniline	4.660	93	518480	48.35	ppm	#	56
11) bis(2-Chloroethyl)ether	4.702	93	369571	47.48	ppm		96
12) 2-Chlorophenol	4.766	128	345228	47.32	ppm		85
13) Decane	4.761	43	346083	44.37	ppm		98
14) 1,3-Dichlorobenzene	4.868	146	394064	47.32	ppm		99
15) 1,4-Dichlorobenzene	4.927	146	398032	48.39	ppm		100
16) Benzyl alcohol	5.034	108	243841	50.68	ppm		97
17) 1,2-Dichlorobenzene	5.050	146	375286	48.27	ppm		99
18) Acetophenone	5.248	105	520611	48.86	ppm		90
19) 2-Methylphenol	5.141	108	345278	48.32	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.125	45	453692	47.45	ppm		89
21) 3&4-Methylphenol	5.264	108	377403	48.41	ppm		99
22) n-Nitroso-di-n-propyla...	5.242	70	281942	47.33	ppm		93
23) Hexachloroethane	5.328	201	127887	49.02	ppm		88

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84437.D
Acq On : 7 Jun 2016 11:18 am
Operator : ashleyn
Sample : icc3720-50
Misc : op94122,e2m3720
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 12:24:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:23:29 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.398	77	440144	48.84	ppm		93
27) Quinoline	6.441	129	713828	47.88	ppm		98
28) Isophorone	5.606	82	745239	48.36	ppm		95
29) 2-Nitrophenol	5.686	139	200921	50.65	ppm		95
30) 2,4-Dimethylphenol	5.729	107	383780	48.85	ppm		97
31) Benzoic acid	5.863	105	246470	56.15	ppm		89
32) bis(2-Chloroethoxy)met...	5.799	93	417891	47.55	ppm		98
33) 2,4-Dichlorophenol	5.932	162	292971	49.14	ppm		95
34) 2,6-Dichlorophenol	6.146	162	285519	48.78	ppm		96
35) 1,3,5-Trichlorobenzene	5.686	180	331187	48.51	ppm		99
36) 1,2,4-Trichlorobenzene	5.991	180	317547	47.62	ppm		96
37) 1,2,3-Trichlorobenzene	6.227	180	310197	48.08	ppm		98
38) Naphthalene	6.077	128	1053153	47.54	ppm		99
39) 4-Chloroaniline	6.141	127	414236	49.44	ppm		92
40) 2,3-Dichloroaniline	7.189	161	355039	47.39	ppm		92
41) Caprolactam	6.532	55	174363	45.61	ppm		89
42) Hexachlorobutadiene	6.184	225	170639	46.04	ppm		100
43) 4-Chloro-3-methylphenol	6.697	107	346404	49.19	ppm		91
44) 2-Methylnaphthalene	6.836	141	585868	47.17	ppm		99
45) 1-Methylnaphthalene	6.954	141	609979	47.27	ppm		100
46) Dimethylnaphthalene	7.623	156	636232	47.81	ppm		97
48) Hexachlorocyclopentadiene	7.013	237	212268	125.37	ppm		98
49) 2,4,6-Trichlorophenol	7.200	196	207635	47.57	ppm		100
50) 2,4,5-Trichlorophenol	7.264	196	214891	47.97	ppm		98
52) 2-Chloronaphthalene	7.441	162	644365	47.28	ppm		99
53) Biphenyl	7.414	154	860423	47.13	ppm		99
54) 2-Nitroaniline	7.596	65	258023	47.55	ppm		85
55) Dimethylphthalate	7.826	163	730489	47.37	ppm		99
56) Acenaphthylene	7.992	152	1084888	47.48	ppm		99
57) 2,6-Dinitrotoluene	7.922	165	170769	48.85	ppm		93
58) 3-Nitroaniline	8.163	138	204281	51.32	ppm		82
59) Acenaphthene	8.232	153	656775	46.92	ppm		98
60) 2,4-Dinitrophenol	8.334	184	148746	115.15	ppm		89
61) 4-Nitrophenol	8.489	109	100837	54.62	ppm	#	41
62) Dibenzofuran	8.478	168	913264	46.94	ppm		88
63) 2,4-Dinitrotoluene	8.505	165	240819	49.33	ppm		88
64) 2,3,4,6-Tetrachlorophenol	8.682	232	136269	48.83	ppm		97
65) Diethylphthalate	8.842	149	766188	47.21	ppm		97
66) Fluorene	8.981	166	747063	48.54	ppm		99
67) 4-Chlorophenyl-phenyle...	8.987	204	351400	49.09	ppm		98
68) 4-Nitroaniline	9.056	138	205316	49.88	ppm		97
70) 4,6-Dinitro-2-methylph...	9.115	198	125306	69.23	ppm		88
71) n-Nitrosodiphenylamine	9.179	169	504817	48.04	ppm		99
72) 1,2-Diphenylhydrazine	9.227	77	896183	49.85	ppm		92
74) 4-Bromophenyl-phenylether	9.725	248	207475	47.82	ppm		96
75) Hexachlorobenzene	9.805	284	242717	48.51	ppm		98
76) Pentachlorophenol	10.142	266	148718	118.62	ppm		95
77) Phenanthrene	10.441	178	1101861	47.36	ppm		100
78) Anthracene	10.522	178	1105833	47.33	ppm		99
79) Carbazole	10.805	167	1015719	47.36	ppm		99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84437.D
Acq On : 7 Jun 2016 11:18 am
Operator : ashleyn
Sample : icc3720-50
Misc : op94122,e2m3720
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 12:24:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:23:29 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.388	149	1318979	47.89 ppm	100
81) Fluoranthene	12.319	202	1142372	48.32 ppm	95
82) Octadecane	10.292	57	530288	48.11 ppm	95
84) Pyrene	12.677	202	1183754	46.32 ppm	100
86) Butylbenzylphthalate	13.784	149	588467	46.40 ppm	87
87) Benzo[a]anthracene	14.608	228	1069161	45.11 ppm	99
88) 3,3'-Dichlorobenzidine	14.603	252	430896	49.52 ppm	98
89) Chrysene	14.667	228	1010604	46.49 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.731	149	745481	46.07 ppm	98
92) Di-n-octylphthalate	15.726	149	1068481	47.82 ppm	94
93) Benzo[b]fluoranthene	16.239	252	824172	46.48 ppm	94
94) Benzo[k]fluoranthene	16.277	252	737529	46.34 ppm	98
95) Benzo[a]pyrene	16.689	252	694022	46.84 ppm	96
96) Indeno[1,2,3-cd]pyrene	18.529	276	831366	46.76 ppm	93
97) Dibenz(a,h)acridine	18.111	279	625905	47.24 ppm	98
98) Dibenz[a,h]anthracene	18.561	278	721097	47.02 ppm	96
99) 7,12-Dimethylbenz(a)an...	16.218	256	368192	48.79 ppm	96
100) Benzo[g,h,i]perylene	19.042	276	707275	47.02 ppm	93

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

7.6.5

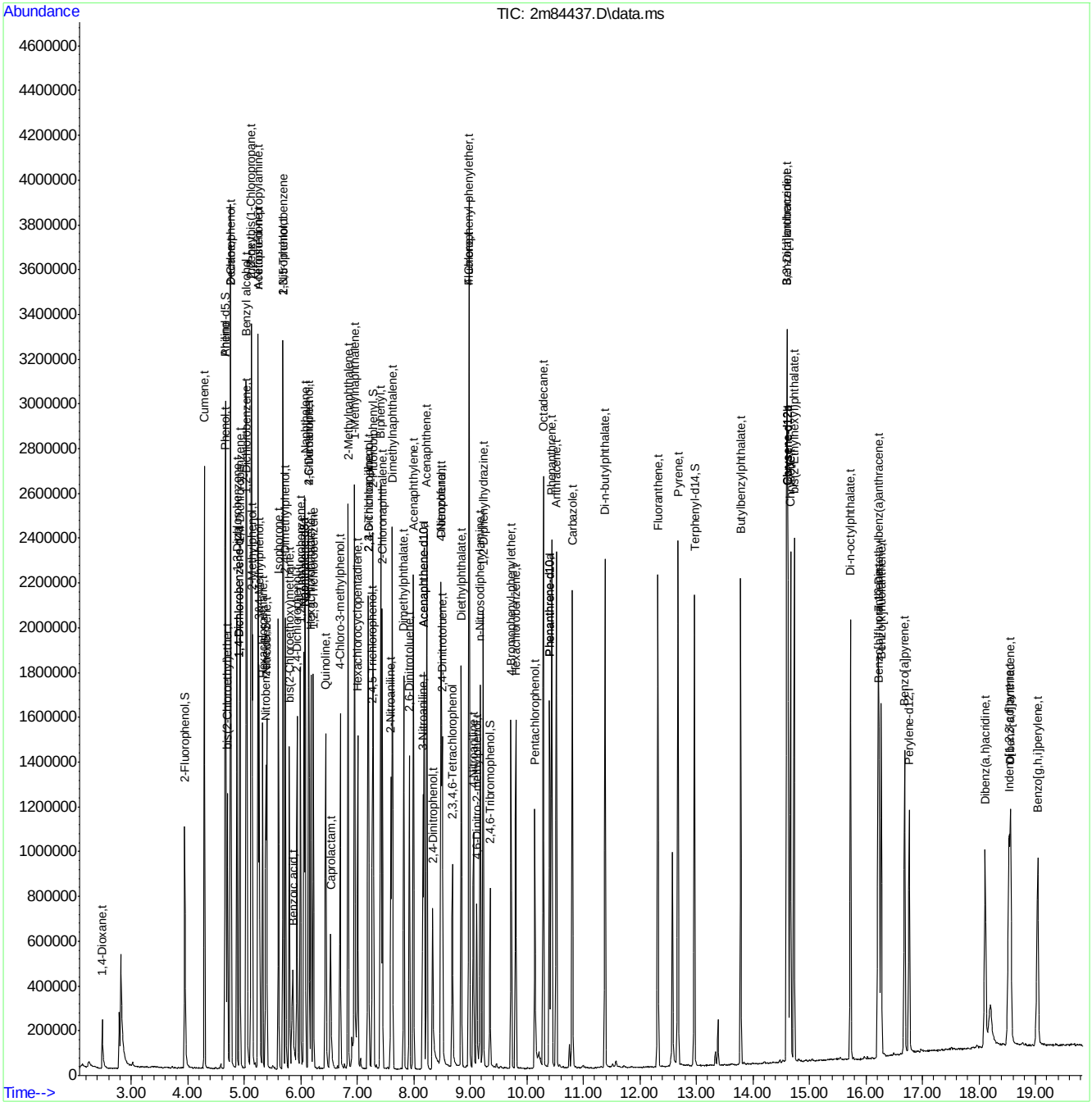
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84437.D
Acq On : 7 Jun 2016 11:18 am
Operator : ashleyn
Sample : icc3720-50
Misc : op94122,e2m3720
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 12:24:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:23:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84438.D
Acq On : 7 Jun 2016 11:45 am
Operator : ashleyn
Sample : ic3720-25
Misc : op94122,e2m3720
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:25:11 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	200990	40.00 ppm	0.00
24) Naphthalene-d8	6.055	136	782001	40.00 ppm	0.00
47) Acenaphthene-d10	8.184	164	449406	40.00 ppm	0.00
69) Phenanthrene-d10	10.399	188	766969	40.00 ppm	0.00
83) Chrysene-d12	14.624	240	713887	40.00 ppm	0.00
91) Perylene-d12	16.763	264	504043	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.911	152	200990	40.00 ppm	0.00
103) Acenaphthene-d10a	8.184	164	449406	40.00 ppm	0.00
105) Chrysene-d12a	14.624	240	713887	40.00 ppm	0.00
108) Phenanthrene-d10a	10.399	188	766969	40.00 ppm	0.00
111) Naphthalene-d8a	6.055	136	782001	40.00 ppm	0.00
113) Chrysene-d12b	14.624	240	713882	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	3.948	112	175095	24.74 ppm	0.00
Spiked Amount 50.000			Recovery	= 49.48%	
8) Phenol-d5	4.665	99	218538	24.58 ppm	0.00
Spiked Amount 50.000			Recovery	= 49.16%	
25) Nitrobenzene-d5	5.382	82	208103	24.19 ppm	0.00
Spiked Amount 50.000			Recovery	= 48.38%	
51) 2-Fluorobiphenyl	7.280	172	353246	24.52 ppm	0.00
Spiked Amount 50.000			Recovery	= 49.04%	
73) 2,4,6-Tribromophenol	9.345	330	51652	24.10 ppm	0.00
Spiked Amount 50.000			Recovery	= 48.20%	
85) Terphenyl-d14	12.961	244	382217	22.80 ppm	0.00
Spiked Amount 50.000			Recovery	= 45.60%	
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.488	88	62760	23.16 ppm	96
6) Indene	5.119	116	315801	23.94 ppm	98
7) Cumene	4.296	105	472321	24.25 ppm	99
9) Phenol	4.676	94	271946	24.94 ppm	97
10) Aniline	4.659	93	270281	25.18 ppm	99
11) bis(2-Chloroethyl)ether	4.702	93	182343	23.49 ppm	99
12) 2-Chlorophenol	4.766	128	175634	24.15 ppm	98
13) Decane	4.761	43	190972	24.86 ppm	97
14) 1,3-Dichlorobenzene	4.868	146	197874	23.84 ppm	100
15) 1,4-Dichlorobenzene	4.927	146	201645	24.49 ppm	100
16) Benzyl alcohol	5.034	108	125177	25.75 ppm	94
17) 1,2-Dichlorobenzene	5.050	146	187440	24.09 ppm	100
18) Acetophenone	5.242	105	263503	24.66 ppm	98
19) 2-Methylphenol	5.136	108	175486	24.54 ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.125	45	238409	25.00 ppm	97
21) 3&4-Methylphenol	5.264	108	188496	24.15 ppm	100
22) n-Nitroso-di-n-propyla...	5.237	70	143759	24.21 ppm	99
23) Hexachloroethane	5.328	201	62643	23.92 ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84438.D
Acq On : 7 Jun 2016 11:45 am
Operator : ashleyn
Sample : ic3720-25
Misc : op94122,e2m3720
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:25:11 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.398	77	220844	25.17	ppm		96
27) Quinoline	6.430	129	348437	24.10	ppm		98
28) Isophorone	5.601	82	371300	24.80	ppm		99
29) 2-Nitrophenol	5.681	139	99841	25.67	ppm		89
30) 2,4-Dimethylphenol	5.729	107	185711	24.28	ppm		96
31) Benzoic acid	5.842	105	108913	24.76	ppm		99
32) bis(2-Chloroethoxy)met...	5.799	93	213638	25.10	ppm		100
33) 2,4-Dichlorophenol	5.932	162	142893	24.59	ppm		96
34) 2,6-Dichlorophenol	6.146	162	138765	24.36	ppm		99
35) 1,3,5-Trichlorobenzene	5.686	180	162987	24.56	ppm		98
36) 1,2,4-Trichlorobenzene	5.991	180	158623	24.56	ppm		99
37) 1,2,3-Trichlorobenzene	6.221	180	152352	24.33	ppm		96
38) Naphthalene	6.077	128	522279	24.35	ppm		99
39) 4-Chloroaniline	6.136	127	207706	25.41	ppm		99
40) 2,3-Dichloroaniline	7.184	161	172889	23.85	ppm		98
41) Caprolactam	6.510	55	86094	23.44	ppm		98
42) Hexachlorobutadiene	6.184	225	84309	23.63	ppm		97
43) 4-Chloro-3-methylphenol	6.692	107	168009	24.47	ppm		100
44) 2-Methylnaphthalene	6.836	141	292296	24.34	ppm		99
45) 1-Methylnaphthalene	6.954	141	308519	24.72	ppm		98
46) Dimethylnaphthalene	7.617	156	316327	24.52	ppm		99
48) Hexachlorocyclopentadiene	7.008	237	74115	42.67	ppm		96
49) 2,4,6-Trichlorophenol	7.195	196	101613	24.37	ppm		100
50) 2,4,5-Trichlorophenol	7.264	196	104331	24.34	ppm		98
52) 2-Chloronaphthalene	7.441	162	317818	24.44	ppm		98
53) Biphenyl	7.409	154	425052	24.42	ppm		100
54) 2-Nitroaniline	7.591	65	129774	25.04	ppm		96
55) Dimethylphthalate	7.821	163	363246	24.68	ppm		99
56) Acenaphthylene	7.992	152	533977	24.47	ppm		100
57) 2,6-Dinitrotoluene	7.917	165	83810	24.97	ppm		97
58) 3-Nitroaniline	8.157	138	96960	25.12	ppm		99
59) Acenaphthene	8.227	153	322186	24.16	ppm		98
60) 2,4-Dinitrophenol	8.329	184	55128	42.63	ppm		92
61) 4-Nitrophenol	8.489	109	45322	24.99	ppm	#	71
62) Dibenzofuran	8.478	168	448913	24.22	ppm		98
63) 2,4-Dinitrotoluene	8.500	165	113954	24.26	ppm		97
64) 2,3,4,6-Tetrachlorophenol	8.682	232	64901	24.23	ppm		95
65) Diethylphthalate	8.837	149	374494	24.19	ppm		98
66) Fluorene	8.976	166	367908	24.93	ppm		99
67) 4-Chlorophenyl-phenyle...	8.981	204	170023	24.71	ppm		98
68) 4-Nitroaniline	9.045	138	98658	24.86	ppm		99
70) 4,6-Dinitro-2-methylph...	9.110	198	54933	28.99	ppm		94
71) n-Nitrosodiphenylamine	9.174	169	243506	24.02	ppm		98
72) 1,2-Diphenylhydrazine	9.222	77	443413	25.38	ppm		99
74) 4-Bromophenyl-phenylether	9.719	248	100139	23.95	ppm		97
75) Hexachlorobenzene	9.805	284	116571	24.11	ppm		96
76) Pentachlorophenol	10.142	266	58722	46.45	ppm		97
77) Phenanthrene	10.436	178	534395	23.88	ppm		99
78) Anthracene	10.516	178	540761	24.06	ppm		99
79) Carbazole	10.800	167	489435	23.72	ppm		99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84438.D
Acq On : 7 Jun 2016 11:45 am
Operator : ashleyn
Sample : ic3720-25
Misc : op94122,e2m3720
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:25:11 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.383	149	639834	24.10 ppm	99
81) Fluoranthene	12.319	202	546979	23.96 ppm	99
82) Octadecane	10.292	57	265430	24.96 ppm	99
84) Pyrene	12.672	202	574009	23.13 ppm	100
86) Butylbenzylphthalate	13.784	149	283846	23.04 ppm	100
87) Benzo[a]anthracene	14.603	228	528513	23.07 ppm	98
88) 3,3'-Dichlorobenzidine	14.597	252	211209	24.67 ppm	99
89) Chrysene	14.661	228	500629	23.70 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.726	149	375663	23.93 ppm	99
92) Di-n-octylphthalate	15.720	149	547136	25.40 ppm	99
93) Benzo[b]fluoranthene	16.229	252	379817	22.34 ppm	98
94) Benzo[k]fluoranthene	16.266	252	358815	23.52 ppm	99
95) Benzo[a]pyrene	16.683	252	323014	22.70 ppm	100
96) Indeno[1,2,3-cd]pyrene	18.518	276	392365	22.99 ppm	98
97) Dibenz(a,h)acridine	18.101	279	288272	22.62 ppm	98
98) Dibenz[a,h]anthracene	18.545	278	337554	22.90 ppm	97
99) 7,12-Dimethylbenz(a)an...	16.213	256	172848	23.66 ppm	96
100) Benzo[g,h,i]perylene	19.026	276	335037	23.18 ppm	97

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

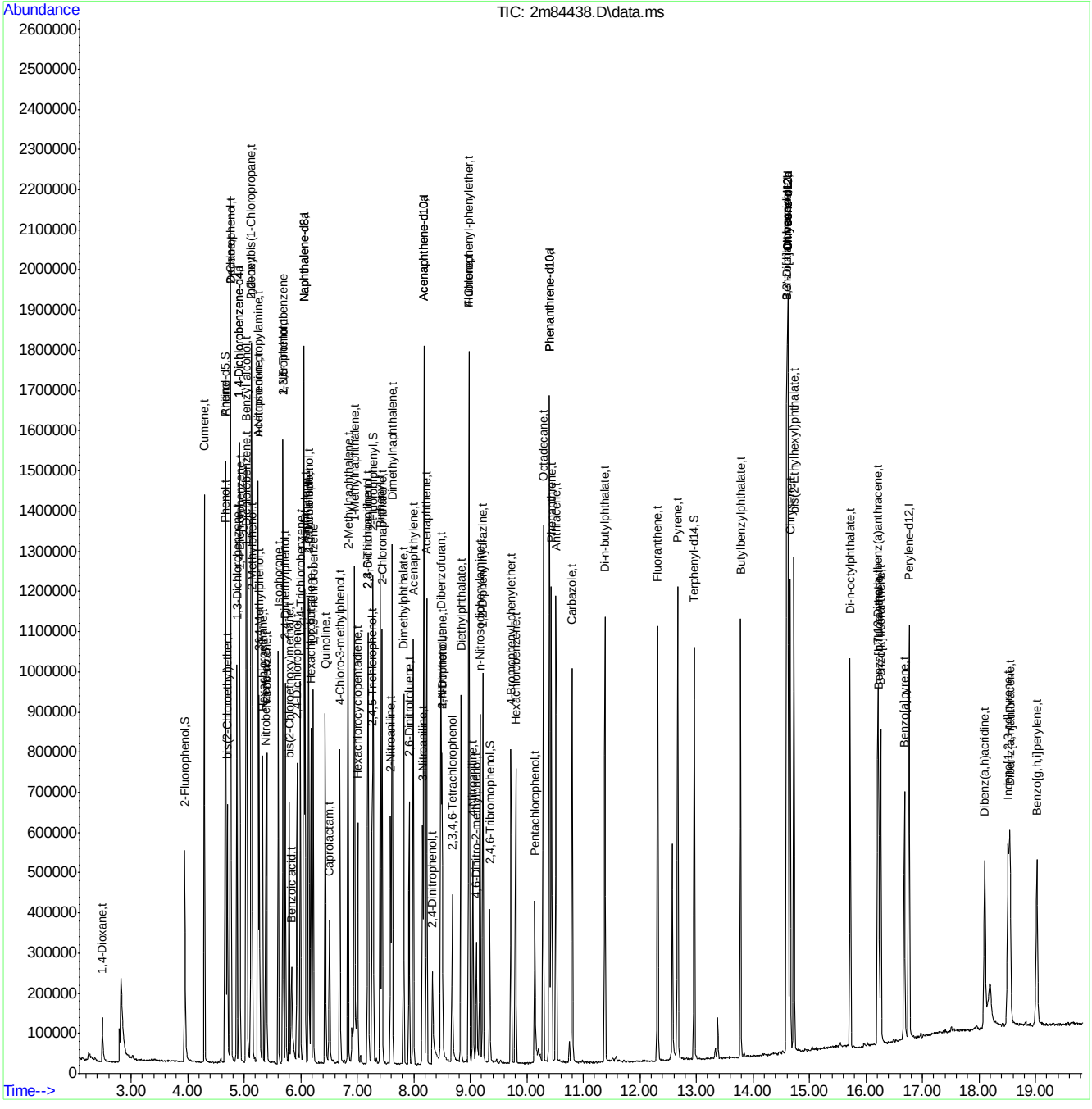
7.6.6 7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84438.D
Acq On : 7 Jun 2016 11:45 am
Operator : ashleyn
Sample : ic3720-25
Misc : op94122,e2m3720
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:25:11 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84439.D
Acq On : 7 Jun 2016 12:11 pm
Operator : ashleyn
Sample : ic3720-10
Misc : op94122,e2m3720
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 12:38:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:26:23 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	194804	40.00	ppm	0.00
24) Naphthalene-d8	6.050	136	772128	40.00	ppm	0.00
47) Acenaphthene-d10	8.184	164	451145	40.00	ppm	0.00
69) Phenanthrene-d10	10.398	188	766272	40.00	ppm	0.00
83) Chrysene-d12	14.619	240	702566	40.00	ppm	0.00
91) Perylene-d12	16.763	264	485419	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.911	152	194804	40.00	ppm	0.00
103) Acenaphthene-d10a	8.184	164	451145	40.00	ppm	0.00
105) Chrysene-d12a	14.619	240	702566	40.00	ppm	0.00
108) Phenanthrene-d10a	10.398	188	766272	40.00	ppm	0.00
111) Naphthalene-d8a	6.050	136	772128	40.00	ppm	0.00
113) Chrysene-d12b	14.619	240	702566	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.948	112	69583	10.16	ppm	0.00
Spiked Amount 50.000			Recovery = 20.32%			
8) Phenol-d5	4.665	99	88959	10.35	ppm	0.00
Spiked Amount 50.000			Recovery = 20.70%			
25) Nitrobenzene-d5	5.376	82	86772	10.27	ppm	0.00
Spiked Amount 50.000			Recovery = 20.54%			
51) 2-Fluorobiphenyl	7.280	172	146257	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
73) 2,4,6-Tribromophenol	9.345	330	21325	10.02	ppm	0.00
Spiked Amount 50.000			Recovery = 20.04%			
85) Terphenyl-d14	12.960	244	155759	9.58	ppm	0.00
Spiked Amount 50.000			Recovery = 19.16%			
107) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.493	88	23312	8.99	ppm	95
6) Indene	5.119	116	133470	10.51	ppm	100
7) Cumene	4.296	105	191684	10.21	ppm	99
9) Phenol	4.675	94	110868	10.49	ppm	90
10) Aniline	4.659	93	113776	10.92	ppm	98
11) bis(2-Chloroethyl)ether	4.702	93	76008	10.20	ppm	99
12) 2-Chlorophenol	4.766	128	72907	10.40	ppm	99
13) Decane	4.761	43	81997	11.02	ppm	98
14) 1,3-Dichlorobenzene	4.868	146	80666	10.11	ppm	96
15) 1,4-Dichlorobenzene	4.927	146	81423	10.24	ppm	99
16) Benzyl alcohol	5.034	108	51122	10.80	ppm	90
17) 1,2-Dichlorobenzene	5.050	146	76420	10.20	ppm	96
18) Acetophenone	5.242	105	110387	10.68	ppm	99
19) 2-Methylphenol	5.135	108	71944	10.41	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.125	45	102729	11.12	ppm	96
21) 3&4-Methylphenol	5.264	108	77101	10.25	ppm	99
22) n-Nitroso-di-n-propyla...	5.232	70	62426	10.90	ppm	95
23) Hexachloroethane	5.328	201	25491	10.12	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84439.D
Acq On : 7 Jun 2016 12:11 pm
Operator : ashleyn
Sample : ic3720-10
Misc : op94122,e2m3720
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 12:38:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:26:23 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.398	77	89859	10.36	ppm		94
27) Quinoline	6.430	129	142519	10.04	ppm		97
28) Isophorone	5.601	82	153713	10.41	ppm		98
29) 2-Nitrophenol	5.681	139	40395	10.47	ppm		93
30) 2,4-Dimethylphenol	5.724	107	77476	10.31	ppm		97
31) Benzoic acid	5.825	105	37560	8.66	ppm		95
32) bis(2-Chloroethoxy)met...	5.793	93	87235	10.37	ppm		99
33) 2,4-Dichlorophenol	5.932	162	59125	10.33	ppm		98
34) 2,6-Dichlorophenol	6.146	162	58368	10.42	ppm		97
35) 1,3,5-Trichlorobenzene	5.686	180	67162	10.28	ppm		98
36) 1,2,4-Trichlorobenzene	5.991	180	64786	10.19	ppm		99
37) 1,2,3-Trichlorobenzene	6.221	180	62862	10.21	ppm		100
38) Naphthalene	6.071	128	219178	10.39	ppm		99
39) 4-Chloroaniline	6.136	127	86863	10.73	ppm		97
40) 2,3-Dichloroaniline	7.184	161	71604	10.08	ppm		94
41) Caprolactam	6.494	55	36113	10.06	ppm		98
42) Hexachlorobutadiene	6.184	225	34804	9.97	ppm		95
43) 4-Chloro-3-methylphenol	6.692	107	70131	10.38	ppm		99
44) 2-Methylnaphthalene	6.831	141	119170	10.09	ppm		99
45) 1-Methylnaphthalene	6.949	141	129081	10.49	ppm		97
46) Dimethylnaphthalene	7.617	156	131121	10.33	ppm		98
48) Hexachlorocyclopentadiene	7.007	237	16467	9.73	ppm		95
49) 2,4,6-Trichlorophenol	7.195	196	40967	9.83	ppm		98
50) 2,4,5-Trichlorophenol	7.264	196	43195	10.08	ppm		96
52) 2-Chloronaphthalene	7.441	162	131985	10.15	ppm		96
53) Biphenyl	7.409	154	176124	10.12	ppm		99
54) 2-Nitroaniline	7.590	65	52187	10.03	ppm		91
55) Dimethylphthalate	7.820	163	149934	10.17	ppm		100
56) Acenaphthylene	7.986	152	218111	9.99	ppm		99
57) 2,6-Dinitrotoluene	7.917	165	34094	10.12	ppm		95
58) 3-Nitroaniline	8.157	138	40666	10.49	ppm		99
59) Acenaphthene	8.227	153	133746	10.05	ppm		98
60) 2,4-Dinitrophenol	8.339	184	15472	12.28	ppm		83
61) 4-Nitrophenol	8.500	109	17118	9.40	ppm	#	29
62) Dibenzofuran	8.473	168	184058	9.94	ppm		99
63) 2,4-Dinitrotoluene	8.500	165	46353	9.88	ppm		93
64) 2,3,4,6-Tetrachlorophenol	8.682	232	24442	9.14	ppm		95
65) Diethylphthalate	8.831	149	156390	10.12	ppm		98
66) Fluorene	8.976	166	153565	10.37	ppm		99
67) 4-Chlorophenyl-phenyle...	8.981	204	72136	10.47	ppm		95
68) 4-Nitroaniline	9.045	138	41179	10.35	ppm		95
70) 4,6-Dinitro-2-methylph...	9.109	198	19011	9.78	ppm		98
71) n-Nitrosodiphenylamine	9.168	169	100539	9.99	ppm		99
72) 1,2-Diphenylhydrazine	9.222	77	183198	10.47	ppm		99
74) 4-Bromophenyl-phenylether	9.719	248	41432	9.99	ppm		94
75) Hexachlorobenzene	9.799	284	48662	10.13	ppm		98
76) Pentachlorophenol	10.142	266	17210	13.79	ppm		92
77) Phenanthrene	10.436	178	220670	9.94	ppm		96
78) Anthracene	10.516	178	224889	10.08	ppm		99
79) Carbazole	10.800	167	200842	9.83	ppm		98

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84439.D
Acq On : 7 Jun 2016 12:11 pm
Operator : ashleyn
Sample : ic3720-10
Misc : op94122,e2m3720
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 12:38:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:26:23 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.383	149	260022	9.86 ppm	100
81) Fluoranthene	12.313	202	222926	9.84 ppm	95
82) Octadecane	10.292	57	112438	10.59 ppm	99
84) Pyrene	12.672	202	236523	9.81 ppm	99
86) Butylbenzylphthalate	13.779	149	115950	9.69 ppm	99
87) Benzo[a]anthracene	14.603	228	217401	9.77 ppm	98
88) 3,3'-Dichlorobenzidine	14.597	252	84833	10.09 ppm	96
89) Chrysene	14.656	228	207744	10.08 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.726	149	161516	10.53 ppm	97
92) Di-n-octylphthalate	15.720	149	255439	12.28 ppm	99
93) Benzo[b]fluoranthene	16.223	252	161819	10.06 ppm	98
94) Benzo[k]fluoranthene	16.261	252	152561	10.49 ppm	98
95) Benzo[a]pyrene	16.678	252	132034	9.79 ppm	99
96) Indeno[1,2,3-cd]pyrene	18.512	276	152016	9.37 ppm	99
97) Dibenz(a,h)acridine	18.101	279	111947	9.27 ppm	94
98) Dibenz[a,h]anthracene	18.539	278	127066	9.08 ppm	95
99) 7,12-Dimethylbenz(a)an...	16.202	256	75173	10.78 ppm	97
100) Benzo[g,h,i]perylene	19.020	276	133449	9.70 ppm	98

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

7.6.7

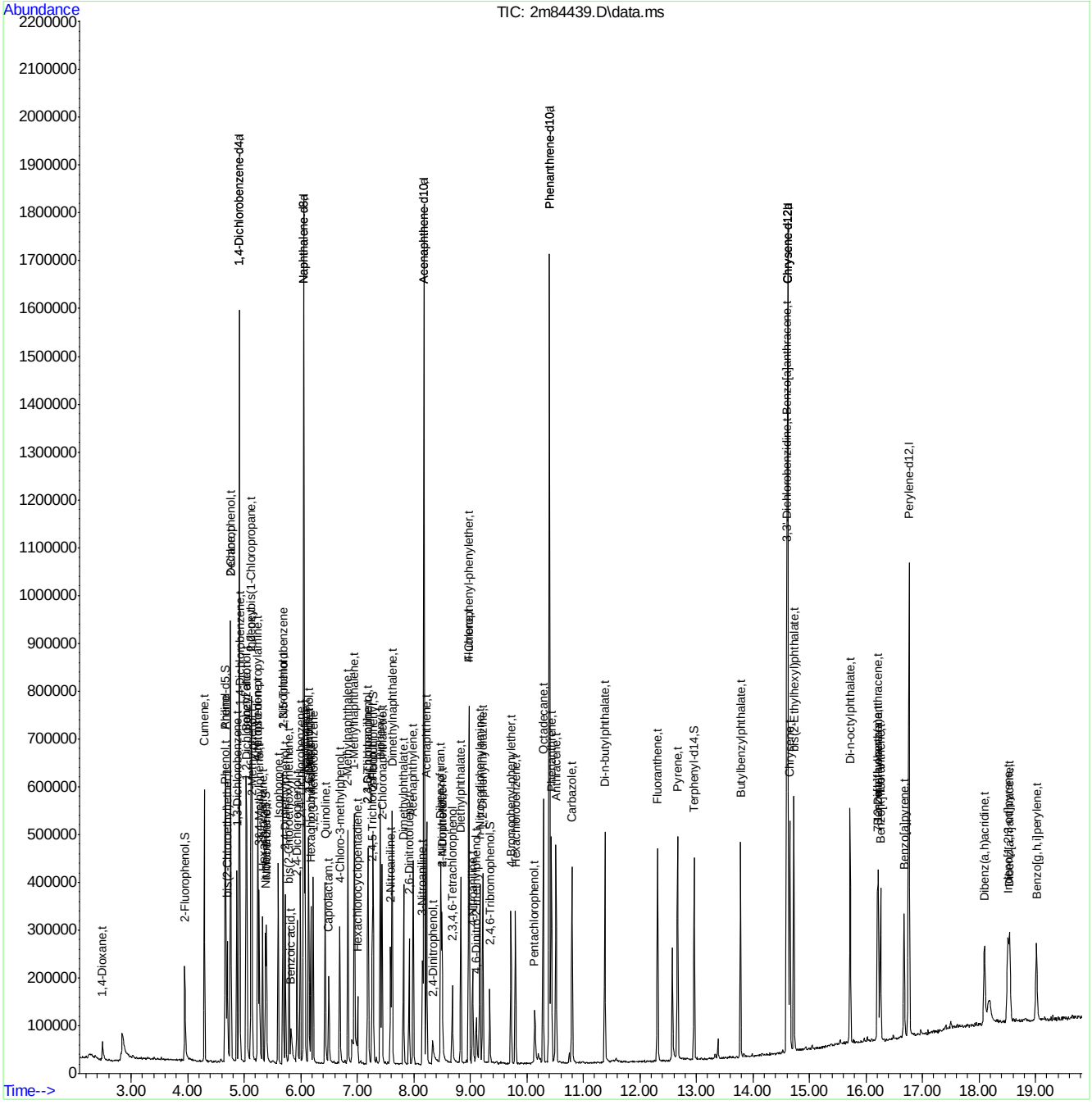
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84439.D
Acq On : 7 Jun 2016 12:11 pm
Operator : ashleyn
Sample : ic3720-10
Misc : op94122,e2m3720
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 07 12:38:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:26:23 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84440.D
Acq On : 7 Jun 2016 12:37 pm
Operator : ashleyn
Sample : ic3720-5
Misc : op94122,e2m3720
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 14:53:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:39:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	204019	40.00 ppm	0.00
24) Naphthalene-d8	6.050	136	822304	40.00 ppm	0.00
47) Acenaphthene-d10	8.184	164	474264	40.00 ppm	0.00
69) Phenanthrene-d10	10.399	188	796033	40.00 ppm	0.00
83) Chrysene-d12	14.619	240	733486	40.00 ppm	0.00
91) Perylene-d12	16.763	264	516361	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.911	152	204019	40.00 ppm	0.00
103) Acenaphthene-d10a	8.184	164	474264	40.00 ppm	0.00
105) Chrysene-d12a	14.619	240	733486	40.00 ppm	0.00
108) Phenanthrene-d10a	10.399	188	796033	40.00 ppm	0.00
111) Naphthalene-d8a	6.050	136	822304	40.00 ppm	0.00
113) Chrysene-d12b	14.619	240	733486	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	3.948	112	37255	5.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 10.36%	
8) Phenol-d5	4.665	99	49088	5.43 ppm	0.00
Spiked Amount 50.000			Recovery	= 10.86%	
25) Nitrobenzene-d5	5.376	82	46725	5.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 10.34%	
51) 2-Fluorobiphenyl	7.280	172	80048	5.27 ppm	0.00
Spiked Amount 50.000			Recovery	= 10.54%	
73) 2,4,6-Tribromophenol	9.345	330	10853	4.91 ppm	0.00
Spiked Amount 50.000			Recovery	= 9.82%	
85) Terphenyl-d14	12.961	244	80834	4.79 ppm	0.00
Spiked Amount 50.000			Recovery	= 9.58%	
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	

Target Compounds					Qvalue
2) 1,4-Dioxane	2.493	88	13861	5.18 ppm	99
6) Indene	5.119	116	73249	5.47 ppm	99
7) Cumene	4.296	105	104674	5.31 ppm	98
9) Phenol	4.675	94	61266	5.50 ppm	94
10) Aniline	4.665	93	61122	5.53 ppm	98
11) bis(2-Chloroethyl)ether	4.702	93	41594	5.32 ppm	96
12) 2-Chlorophenol	4.766	128	41067	5.56 ppm	94
13) Decane	4.761	43	44931	5.68 ppm	99
14) 1,3-Dichlorobenzene	4.868	146	44549	5.32 ppm	97
15) 1,4-Dichlorobenzene	4.927	146	44385	5.31 ppm	100
16) Benzyl alcohol	5.034	108	26525	5.29 ppm	93
17) 1,2-Dichlorobenzene	5.050	146	41699	5.30 ppm	98
18) Acetophenone	5.242	105	60045	5.49 ppm	98
19) 2-Methylphenol	5.135	108	39731	5.46 ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.125	45	55776	5.67 ppm	96
21) 3&4-Methylphenol	5.264	108	40733	5.15 ppm	96
22) n-Nitroso-di-n-propyla...	5.232	70	32703	5.38 ppm	97
23) Hexachloroethane	5.328	201	14396	5.45 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84440.D
Acq On : 7 Jun 2016 12:37 pm
Operator : ashleyn
Sample : ic3720-5
Misc : op94122,e2m3720
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 14:53:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:39:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Nitrobenzene	5.392	77	47927	5.16	ppm		97
27) Quinoline	6.430	129	76680	5.07	ppm		99
28) Isophorone	5.601	82	84728	5.36	ppm		97
29) 2-Nitrophenol	5.681	139	22158	5.36	ppm		94
30) 2,4-Dimethylphenol	5.729	107	41803	5.20	ppm		99
31) Benzoic acid	5.836	105	14821	3.27	ppm		94
32) bis(2-Chloroethoxy)met...	5.793	93	47013	5.22	ppm		98
33) 2,4-Dichlorophenol	5.932	162	31520	5.15	ppm		97
34) 2,6-Dichlorophenol	6.141	162	31094	5.18	ppm		98
35) 1,3,5-Trichlorobenzene	5.686	180	37319	5.34	ppm		98
36) 1,2,4-Trichlorobenzene	5.991	180	33765	4.97	ppm		98
37) 1,2,3-Trichlorobenzene	6.221	180	33901	5.16	ppm		96
38) Naphthalene	6.071	128	118189	5.23	ppm		98
39) 4-Chloroaniline	6.136	127	46643	5.36	ppm		95
40) 2,3-Dichloroaniline	7.184	161	39529	5.22	ppm		97
41) Caprolactam	6.489	55	19070	4.99	ppm		97
42) Hexachlorobutadiene	6.184	225	19181	5.16	ppm		94
43) 4-Chloro-3-methylphenol	6.687	107	37459	5.18	ppm		99
44) 2-Methylnaphthalene	6.831	141	65048	5.17	ppm		94
45) 1-Methylnaphthalene	6.949	141	67875	5.14	ppm		96
46) Dimethylnaphthalene	7.617	156	68720	5.06	ppm		96
48) Hexachlorocyclopentadiene	7.007	237	4278	2.63	ppm		95
49) 2,4,6-Trichlorophenol	7.195	196	21800	4.99	ppm		96
50) 2,4,5-Trichlorophenol	7.264	196	21962	4.87	ppm		96
52) 2-Chloronaphthalene	7.435	162	70951	5.18	ppm		98
53) Biphenyl	7.409	154	95300	5.20	ppm		99
54) 2-Nitroaniline	7.590	65	28080	5.13	ppm		95
55) Dimethylphthalate	7.815	163	80567	5.19	ppm		96
56) Acenaphthylene	7.986	152	117250	5.11	ppm		99
57) 2,6-Dinitrotoluene	7.917	165	17878	5.04	ppm		94
58) 3-Nitroaniline	8.157	138	20647	5.03	ppm		100
59) Acenaphthene	8.227	153	74194	5.30	ppm		99
60) 2,4-Dinitrophenol	8.345	184	4048	3.27	ppm		78
61) 4-Nitrophenol	8.505	109	7016	3.70	ppm	#	1
62) Dibenzofuran	8.473	168	98216	5.05	ppm		95
63) 2,4-Dinitrotoluene	8.500	165	24832	5.04	ppm		97
64) 2,3,4,6-Tetrachlorophenol	8.682	232	12890	4.64	ppm		94
65) Diethylphthalate	8.831	149	82975	5.10	ppm		96
66) Fluorene	8.970	166	81457	5.20	ppm		99
67) 4-Chlorophenyl-phenyle...	8.981	204	37302	5.11	ppm		100
68) 4-Nitroaniline	9.040	138	21514	5.12	ppm		91
70) 4,6-Dinitro-2-methylph...	9.110	198	8804	4.37	ppm		85
71) n-Nitrosodiphenylamine	9.168	169	53117	5.08	ppm		96
72) 1,2-Diphenylhydrazine	9.216	77	95476	5.22	ppm		96
74) 4-Bromophenyl-phenylether	9.719	248	21543	5.00	ppm		95
75) Hexachlorobenzene	9.799	284	26055	5.21	ppm		96
76) Pentachlorophenol	10.142	266	6605	5.33	ppm		85
77) Phenanthrene	10.431	178	117666	5.11	ppm		97
78) Anthracene	10.511	178	119876	5.17	ppm		98
79) Carbazole	10.800	167	109127	5.15	ppm		99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84440.D
Acq On : 7 Jun 2016 12:37 pm
Operator : ashleyn
Sample : ic3720-5
Misc : op94122,e2m3720
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 14:53:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:39:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.383	149	135646	4.96 ppm	99
81) Fluoranthene	12.313	202	116411	4.96 ppm	97
82) Octadecane	10.286	57	59988	5.39 ppm	98
84) Pyrene	12.666	202	122773	4.89 ppm	99
86) Butylbenzylphthalate	13.779	149	61031	4.91 ppm	96
87) Benzo[a]anthracene	14.603	228	115508	4.99 ppm	98
88) 3,3'-Dichlorobenzidine	14.597	252	45039	5.13 ppm	96
89) Chrysene	14.656	228	109252	5.07 ppm	100
90) bis(2-Ethylhexyl)phtha...	14.726	149	83659	5.19 ppm	94
92) Di-n-octylphthalate	15.720	149	139914	6.12 ppm	99
93) Benzo[b]fluoranthene	16.218	252	91594	5.35 ppm	93
94) Benzo[k]fluoranthene	16.261	252	82420	5.29 ppm	99
95) Benzo[a]pyrene	16.678	252	69149	4.83 ppm	99
96) Indeno[1,2,3-cd]pyrene	18.507	276	78661	4.60 ppm	97
97) Dibenz(a,h)acridine	18.095	279	61231	4.82 ppm	97
98) Dibenz[a,h]anthracene	18.539	278	69159	4.71 ppm	91
99) 7,12-Dimethylbenz(a)an...	16.202	256	40542	5.41 ppm	99
100) Benzo[g,h,i]perylene	19.015	276	68418	4.70 ppm	98

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

7.6.8

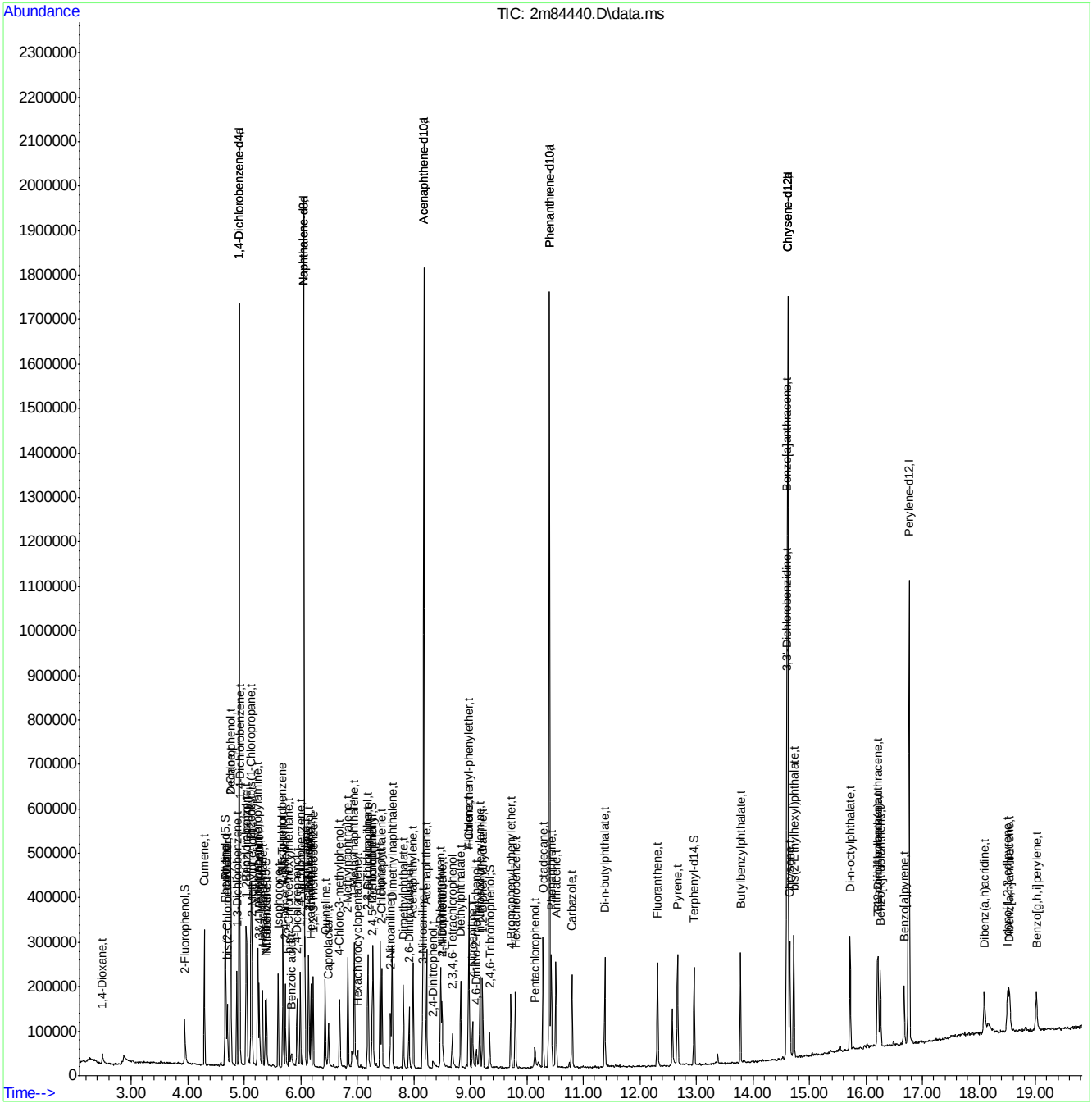
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84440.D
Acq On : 7 Jun 2016 12:37 pm
Operator : ashleyn
Sample : ic3720-5
Misc : op94122,e2m3720
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 14:53:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:39:07 2016
Response via : Initial Calibration



M2M3720.M Tue Jun 07 14:53:28 2016 Page: 4

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84441.D
Acq On : 7 Jun 2016 1:04 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:43:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jun 08 14:38:41 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	238189	40.00	ppm	0.00
24) Naphthalene-d8	6.050	136	900242	40.00	ppm	0.00
47) Acenaphthene-d10	8.184	164	496396	40.00	ppm	0.00
69) Phenanthrene-d10	10.399	188	804726	40.00	ppm	0.00
83) Chrysene-d12	14.613	240	692722	40.00	ppm	-0.01
91) Perylene-d12	16.758	264	475077	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.911	152	238189	40.00	ppm	-0.03
103) Acenaphthene-d10a	8.184	164	496396	40.00	ppm	-0.03
105) Chrysene-d12a	14.613	240	692722	40.00	ppm	-0.03
108) Phenanthrene-d10a	10.399	188	804726	40.00	ppm	-0.03
111) Naphthalene-d8a	6.050	136	900242	40.00	ppm	-0.03
113) Chrysene-d12b	14.613	240	692722	40.00	ppm	-0.03

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%			
107) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
9) Phenol	4.670	94	529086	40.17	ppm		93
12) 2-Chlorophenol	4.761	128	393290	45.00	ppm		98
19) 2-Methylphenol	5.130	108	387504	45.08	ppm		99
21) 3&4-Methylphenol	5.264	108	404370	43.64	ppm		98
29) 2-Nitrophenol	5.681	139	221997	48.60	ppm	#	66
30) 2,4-Dimethylphenol	5.724	107	430621	48.69	ppm		99
31) Benzoic acid	5.863	105	265843	48.18	ppm		97
33) 2,4-Dichlorophenol	5.927	162	307717	45.74	ppm		98
34) 2,6-Dichlorophenol	6.141	162	303767	46.03	ppm		98
43) 4-Chloro-3-methylphenol	6.681	107	350246	44.04	ppm		98
49) 2,4,6-Trichlorophenol	7.189	196	216550	47.35	ppm		100
50) 2,4,5-Trichlorophenol	7.254	196	212222	45.12	ppm		99
60) 2,4-Dinitrophenol	8.329	184	67221	50.01	ppm		96
61) 4-Nitrophenol	8.478	109	98084	51.05	ppm	#	32
64) 2,3,4,6-Tetrachlorophenol	8.676	232	146916	50.99	ppm		97
70) 4,6-Dinitro-2-methylph...	9.104	198	120774	47.35	ppm		98
76) Pentachlorophenol	10.137	266	67693	51.39	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84441.D
Acq On : 7 Jun 2016 1:04 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:43:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jun 08 14:38:41 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

7.6.9

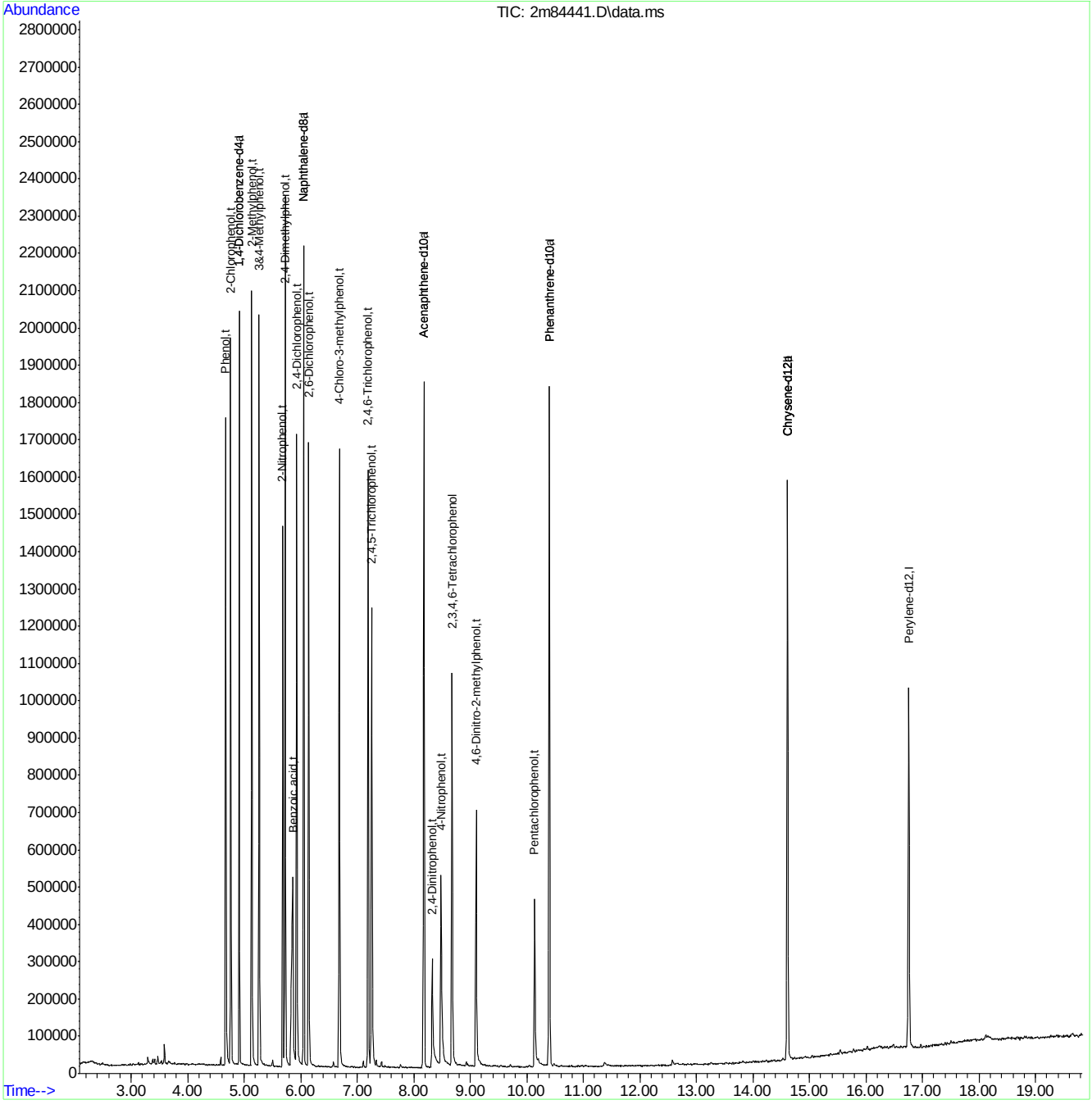
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84441.D
Acq On : 7 Jun 2016 1:04 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:43:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Wed Jun 08 14:38:41 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84442.D
Acq On : 7 Jun 2016 1:30 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 15:19:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	214646	40.00 ppm	0.00
24) Naphthalene-d8	6.050	136	870680	40.00 ppm	0.00
47) Acenaphthene-d10	8.179	164	489823	40.00 ppm	0.00
69) Phenanthrene-d10	10.399	188	806644	40.00 ppm	0.00
83) Chrysene-d12	14.613	240	663586	40.00 ppm	-0.01
91) Perylene-d12	16.758	264	333548	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.911	152	214646	40.00 ppm	0.00
103) Acenaphthene-d10a	8.179	164	489823	40.00 ppm	0.00
105) Chrysene-d12a	14.613	240	663586	40.00 ppm	-0.01
108) Phenanthrene-d10a	10.399	188	806644	40.00 ppm	0.00
111) Naphthalene-d8a	6.050	136	870680	40.00 ppm	0.00
113) Chrysene-d12b	14.613	240	663586	40.00 ppm	-0.01

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%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
10) Aniline	4.665	93	617459	52.41 ppm	97
16) Benzyl alcohol	5.034	108	267291	50.29 ppm	98
39) 4-Chloroaniline	6.136	127	436417	46.91 ppm	98
44) 2-Methylnaphthalene	6.831	141	616041	46.02 ppm	99
54) 2-Nitroaniline	7.590	65	248911	43.89 ppm	98
58) 3-Nitroaniline	8.157	138	193533	45.62 ppm	97
62) Dibenzofuran	8.473	168	954829	47.48 ppm	98
68) 4-Nitroaniline	9.045	138	192837	44.28 ppm	98
79) Carbazole	10.800	167	994194	46.15 ppm	99

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

7.6.10

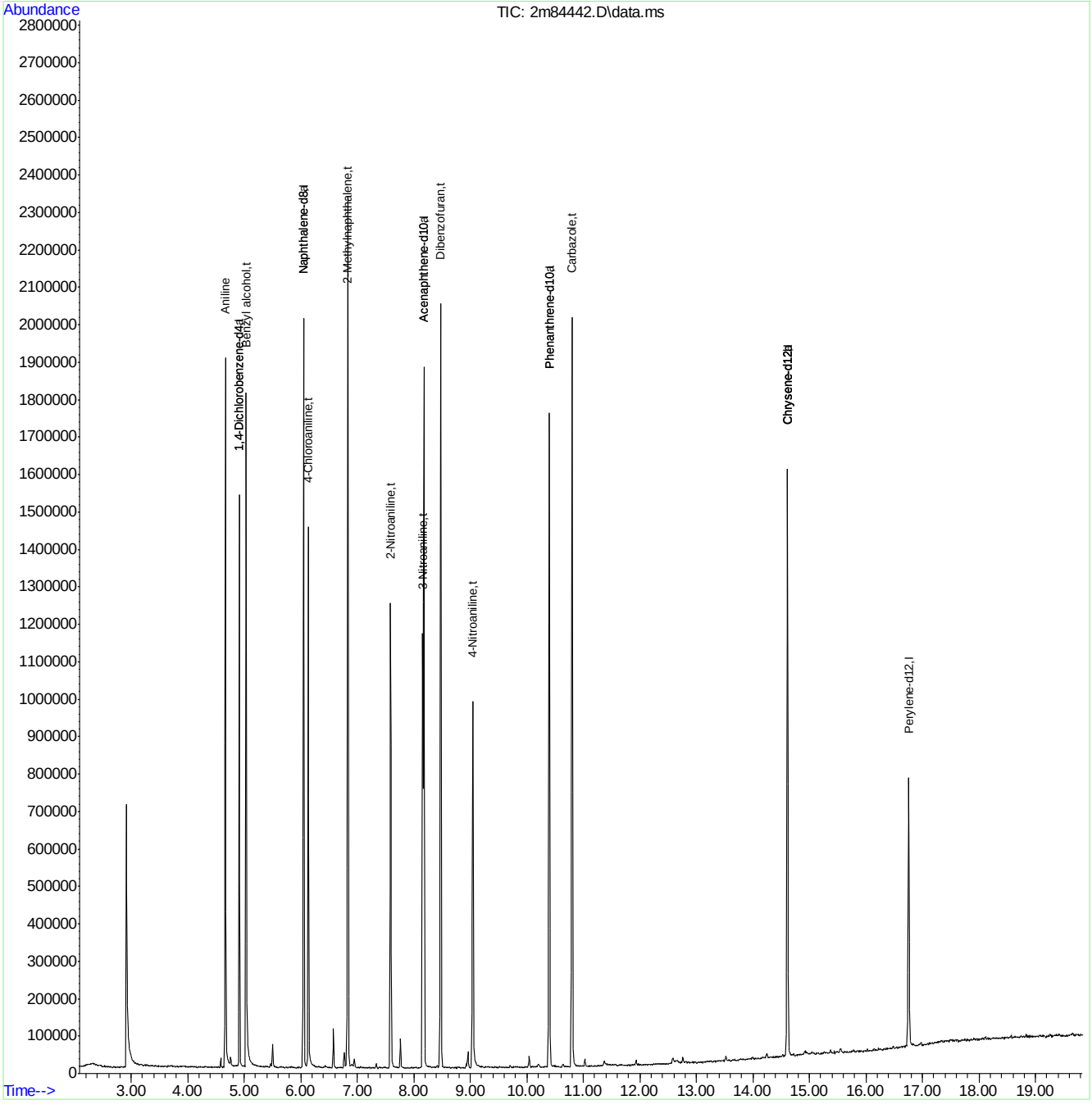
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84442.D
Acq On : 7 Jun 2016 1:30 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 07 15:19:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration



M2M3720.M Tue Jun 07 15:20:05 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84443.D
Acq On : 7 Jun 2016 1:56 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 15:20:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:39:07 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	203128	40.00 ppm	0.00
24) Naphthalene-d8	6.050	136	815817	40.00 ppm	0.00
47) Acenaphthene-d10	8.179	164	458611	40.00 ppm	0.00
69) Phenanthrene-d10	10.398	188	759453	40.00 ppm	0.00
83) Chrysene-d12	14.613	240	656510	40.00 ppm	-0.01
91) Perylene-d12	16.758	264	439867	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.911	152	203128	40.00 ppm	0.00
103) Acenaphthene-d10a	8.179	164	458611	40.00 ppm	0.00
105) Chrysene-d12a	14.613	240	656510	40.00 ppm	-0.01
108) Phenanthrene-d10a	10.398	188	759453	40.00 ppm	0.00
111) Naphthalene-d8a	6.050	136	815817	40.00 ppm	0.00
113) Chrysene-d12b	14.613	240	656541	40.00 ppm	-0.01

System Monitoring Compounds					
5) 2-Fluorophenol	3.943	112	372639	52.06 ppm	0.00
Spiked Amount 50.000			Recovery	= 104.12%	
8) Phenol-d5	4.659	99	472220	52.44 ppm	0.00
Spiked Amount 50.000			Recovery	= 104.88%	
25) Nitrobenzene-d5	5.376	82	434727	48.51 ppm	0.00
Spiked Amount 50.000			Recovery	= 97.02%	
51) 2-Fluorobiphenyl	7.280	172	756034	51.49 ppm	0.00
Spiked Amount 50.000			Recovery	= 102.98%	
73) 2,4,6-Tribromophenol	9.345	330	116649	55.28 ppm	0.00
Spiked Amount 50.000			Recovery	= 110.56%	
85) Terphenyl-d14	12.960	244	782758	51.83 ppm	0.00
Spiked Amount 50.000			Recovery	= 103.66%	
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	

Target Compounds	Qvalue

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

7.6.11

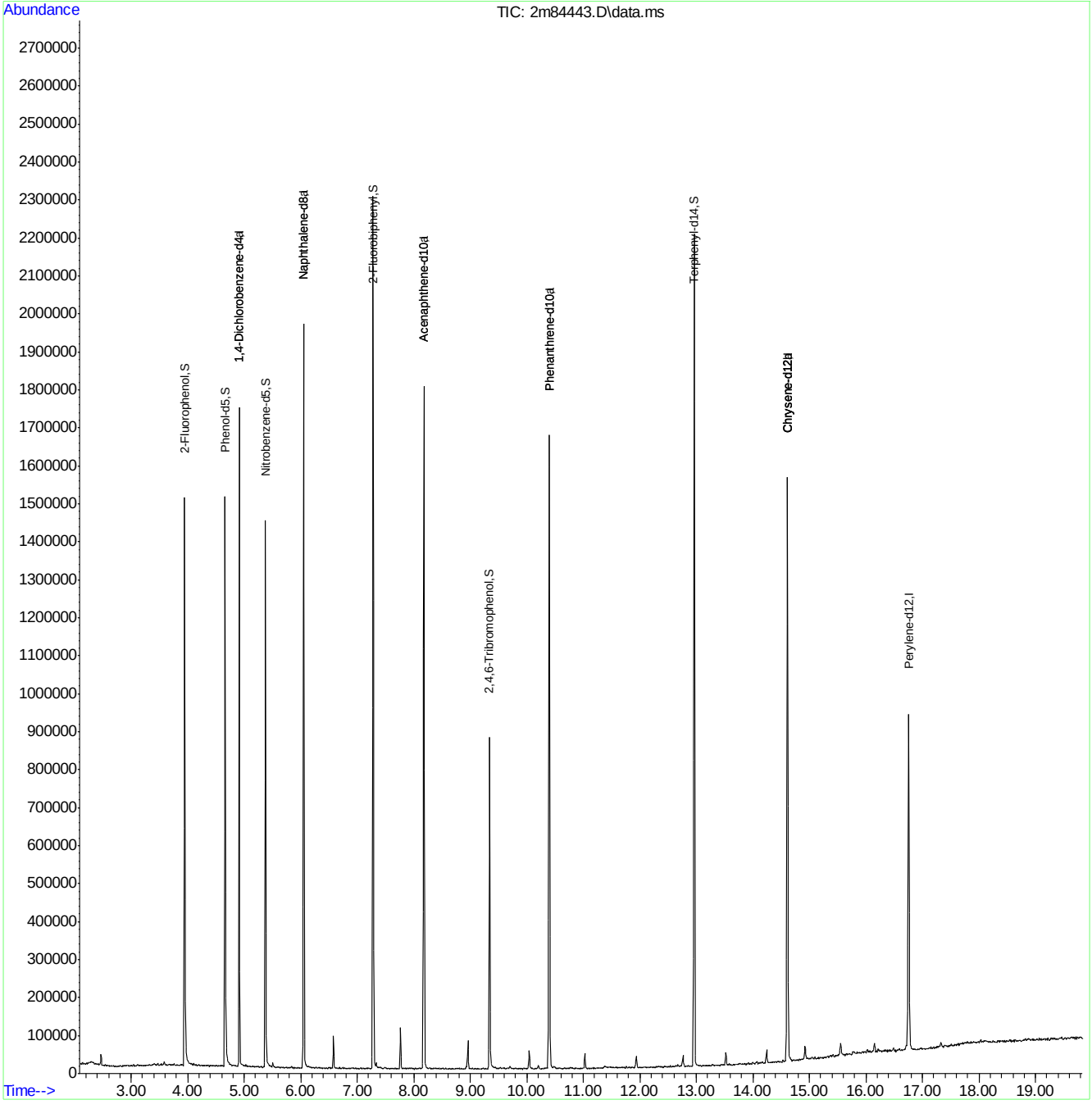
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84443.D
Acq On : 7 Jun 2016 1:56 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 07 15:20:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 12:39:07 2016
Response via : Initial Calibration



M2M3720.M Tue Jun 07 15:20:57 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84444.D
Acq On : 7 Jun 2016 2:23 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 15:22:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	258071	40.00 ppm	0.00
24) Naphthalene-d8	6.050	136	989299	40.00 ppm	0.00
47) Acenaphthene-d10	8.184	164	557189	40.00 ppm	0.00
69) Phenanthrene-d10	10.398	188	905635	40.00 ppm	0.00
83) Chrysene-d12	14.624	240	796909	40.00 ppm	0.00
91) Perylene-d12	16.763	264	510425	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.911	152	258071	40.00 ppm	0.00
103) Acenaphthene-d10a	8.184	164	557189	40.00 ppm	0.00
105) Chrysene-d12a	14.624	240	796909	40.00 ppm	0.00
108) Phenanthrene-d10a	10.398	188	905635	40.00 ppm	0.00
111) Naphthalene-d8a	6.050	136	989299	40.00 ppm	0.00
113) Chrysene-d12b	14.624	240	796875	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%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
11) bis(2-Chloroethyl)ether	4.702	93	467511	46.87 ppm	99
14) 1,3-Dichlorobenzene	4.868	146	488077	45.72 ppm	99
15) 1,4-Dichlorobenzene	4.927	146	493647	46.33 ppm	100
17) 1,2-Dichlorobenzene	5.050	146	458895	45.75 ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.125	45	529878	41.89 ppm	98
22) n-Nitroso-di-n-propyla...	5.237	70	348085	44.88 ppm	95
23) Hexachloroethane	5.328	201	165228	48.87 ppm	96
26) Nitrobenzene	5.397	77	518928	46.28 ppm	97
28) Isophorone	5.601	82	909578	47.38 ppm	99
32) bis(2-Chloroethoxy)met...	5.799	93	498405	45.76 ppm	98
36) 1,2,4-Trichlorobenzene	5.991	180	386301	47.32 ppm	98
38) Naphthalene	6.077	128	1296450	47.44 ppm	100
42) Hexachlorobutadiene	6.178	225	216930	48.33 ppm	99
52) 2-Chloronaphthalene	7.441	162	749838	46.38 ppm	98
55) Dimethylphthalate	7.826	163	827680	45.14 ppm	100
56) Acenaphthylene	7.992	152	1177027	43.55 ppm	99
57) 2,6-Dinitrotoluene	7.922	165	192568	46.16 ppm	99
59) Acenaphthene	8.232	153	768086	46.34 ppm	97

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84444.D
Acq On : 7 Jun 2016 2:23 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 15:22:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration

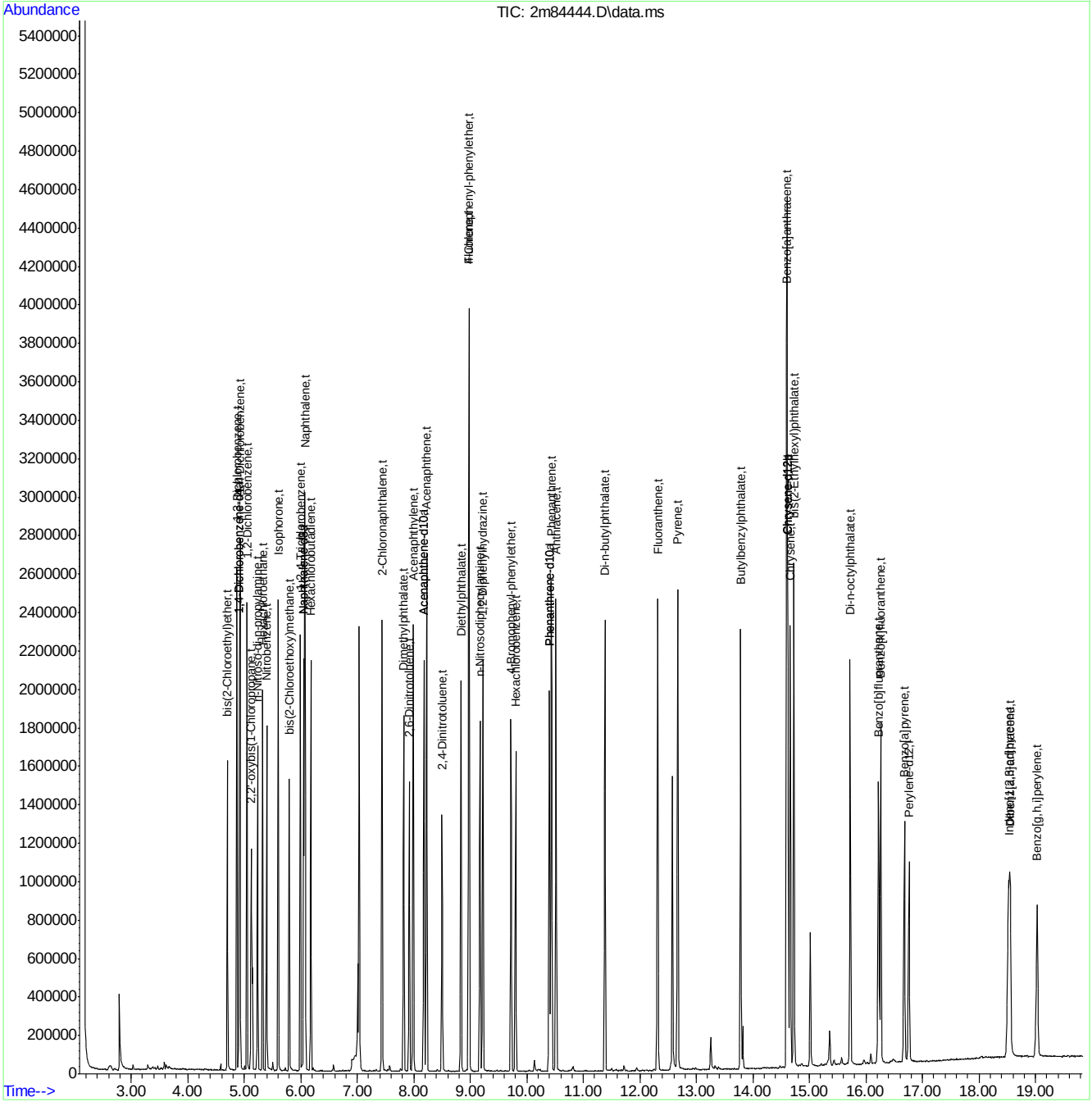
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
63) 2,4-Dinitrotoluene	8.500	165	248221	42.87 ppm	97
65) Diethylphthalate	8.837	149	836211	43.63 ppm	100
66) Fluorene	8.976	166	834463	45.15 ppm	98
67) 4-Chlorophenyl-phenyle...	8.981	204	398245	46.34 ppm	98
71) n-Nitrosodiphenylamine	9.174	169	549441	46.12 ppm	99
72) 1,2-Diphenylhydrazine	9.222	77	968779	46.28 ppm	99
74) 4-Bromophenyl-phenylether	9.719	248	229867	46.89 ppm	94
75) Hexachlorobenzene	9.805	284	264657	46.30 ppm	97
77) Phenanthrene	10.436	178	1212945	46.16 ppm	99
78) Anthracene	10.516	178	1172025	44.21 ppm	99
80) Di-n-butylphthalate	11.383	149	1421172	45.74 ppm	100
81) Fluoranthene	12.319	202	1228150	46.03 ppm	99
84) Pyrene	12.672	202	1288525	47.36 ppm	99
86) Butylbenzylphthalate	13.784	149	601209	44.59 ppm	99
87) Benzo[a]anthracene	14.602	228	1128245	44.86 ppm	99
89) Chrysene	14.661	228	1027550	43.83 ppm	100
90) bis(2-Ethylhexyl)phtha...	14.725	149	795909	45.19 ppm	97
92) Di-n-octylphthalate	15.720	149	1185267	51.04 ppm	99
93) Benzo[b]fluoranthene	16.228	252	807523	47.29 ppm	99
94) Benzo[k]fluoranthene	16.266	252	804956	51.89 ppm	100
95) Benzo[a]pyrene	16.683	252	666954	47.35 ppm	97
96) Indeno[1,2,3-cd]pyrene	18.523	276	804799	48.10 ppm	99
98) Dibenz[a,h]anthracene	18.550	278	691456	47.96 ppm	99
100) Benzo[g,h,i]perylene	19.031	276	680616	47.63 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84444.D
Acq On : 7 Jun 2016 2:23 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 15:22:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84446.D
Acq On : 7 Jun 2016 3:15 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 07 15:50:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.911	152	212363	40.00 ppm	0.00
24) Naphthalene-d8	6.050	136	830116	40.00 ppm	0.00
47) Acenaphthene-d10	8.179	164	485874	40.00 ppm	0.00
69) Phenanthrene-d10	10.393	188	829077	40.00 ppm	-0.01
83) Chrysene-d12	14.613	240	780950	40.00 ppm	-0.01
91) Perylene-d12	16.758	264	607926	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.911	152	212363	40.00 ppm	0.00
103) Acenaphthene-d10a	8.179	164	485874	40.00 ppm	0.00
105) Chrysene-d12a	14.613	240	780950	40.00 ppm	-0.01
108) Phenanthrene-d10a	10.393	188	829077	40.00 ppm	-0.01
111) Naphthalene-d8a	6.050	136	830116	40.00 ppm	0.00
113) Chrysene-d12b	14.613	240	780950	40.00 ppm	-0.01

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%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
88) 3,3'-Dichlorobenzidine	14.597	252	433670	46.21 ppm	100

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

7.6.13

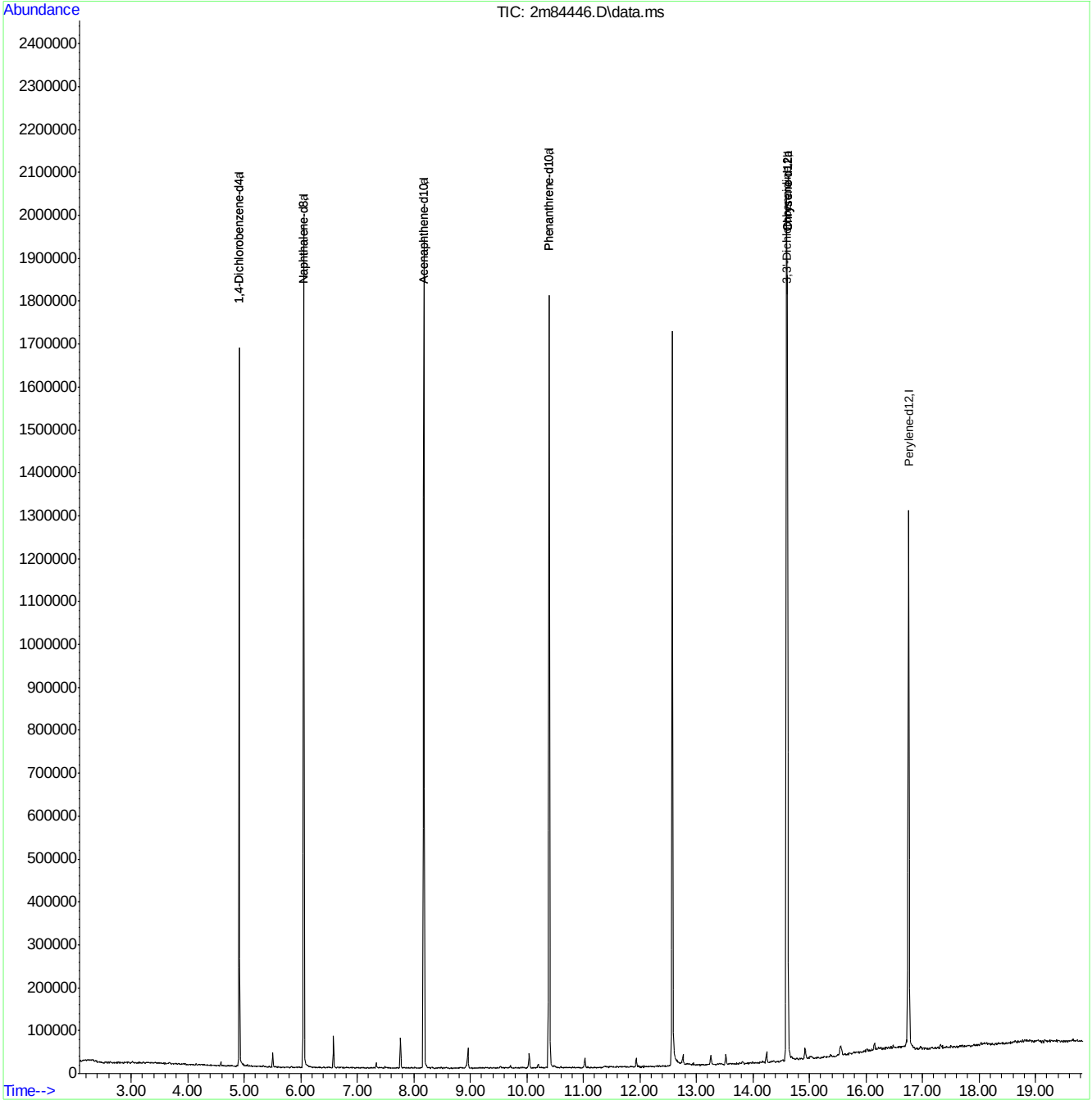
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3720\
Data File : 2m84446.D
Acq On : 7 Jun 2016 3:15 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3720
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 07 15:50:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 15:05:19 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3721\
Data File : 2m84450.D
Acq On : 7 Jun 2016 5:25 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3721
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 09:04:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 16:18:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.906	152	223237	40.00 ppm	0.00
24) Naphthalene-d8	6.045	136	983171	40.00 ppm	-0.01
47) Acenaphthene-d10	8.174	164	475317	40.00 ppm	-0.01
69) Phenanthrene-d10	10.388	188	785394	40.00 ppm	-0.02
83) Chrysene-d12	14.608	240	657258	40.00 ppm	-0.02
91) Perylene-d12	16.747	264	439945	40.00 ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.906	152	223237	40.00 ppm	-0.03
103) Acenaphthene-d10a	8.174	164	475317	40.00 ppm	-0.04
105) Chrysene-d12a	14.608	240	657258	40.00 ppm	-0.04
108) Phenanthrene-d10a	10.388	188	785394	40.00 ppm	-0.04
111) Naphthalene-d8a	6.045	136	983171	40.00 ppm	-0.04
113) Chrysene-d12b	14.608	240	657258	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%
107) 1-chlorooctadecane	0.000	57	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery	=	0.00%

Target Compounds					Qvalue
2) 1,4-Dioxane	2.493	88	148929	50.61 ppm	97
6) Indene	5.114	116	705808	47.61 ppm	100
7) Cumene	4.291	105	972642	44.72 ppm	99
13) Decane	4.756	43	390765	44.75 ppm	98
18) Acetophenone	5.237	105	543916	44.93 ppm	98
27) Quinoline	6.425	129	704502	39.39 ppm	99
40) 2,3-Dichloroaniline	7.179	161	325242	36.22 ppm	98
41) Caprolactam	6.494	55	167315	38.19 ppm	98
45) 1-Methylnaphthalene	6.949	141	610658	38.57 ppm	97
46) Dimethylnaphthalene	7.612	156	618670	38.45 ppm	96
48) Hexachlorocyclopentadiene	7.002	237	85124	48.15 ppm	99
53) Biphenyl	7.403	154	847502	45.91 ppm	98
82) Octadecane	10.286	57	496489	44.79 ppm	99
99) 7,12-Dimethylbenz(a)an...	16.197	256	272497	42.22 ppm	97

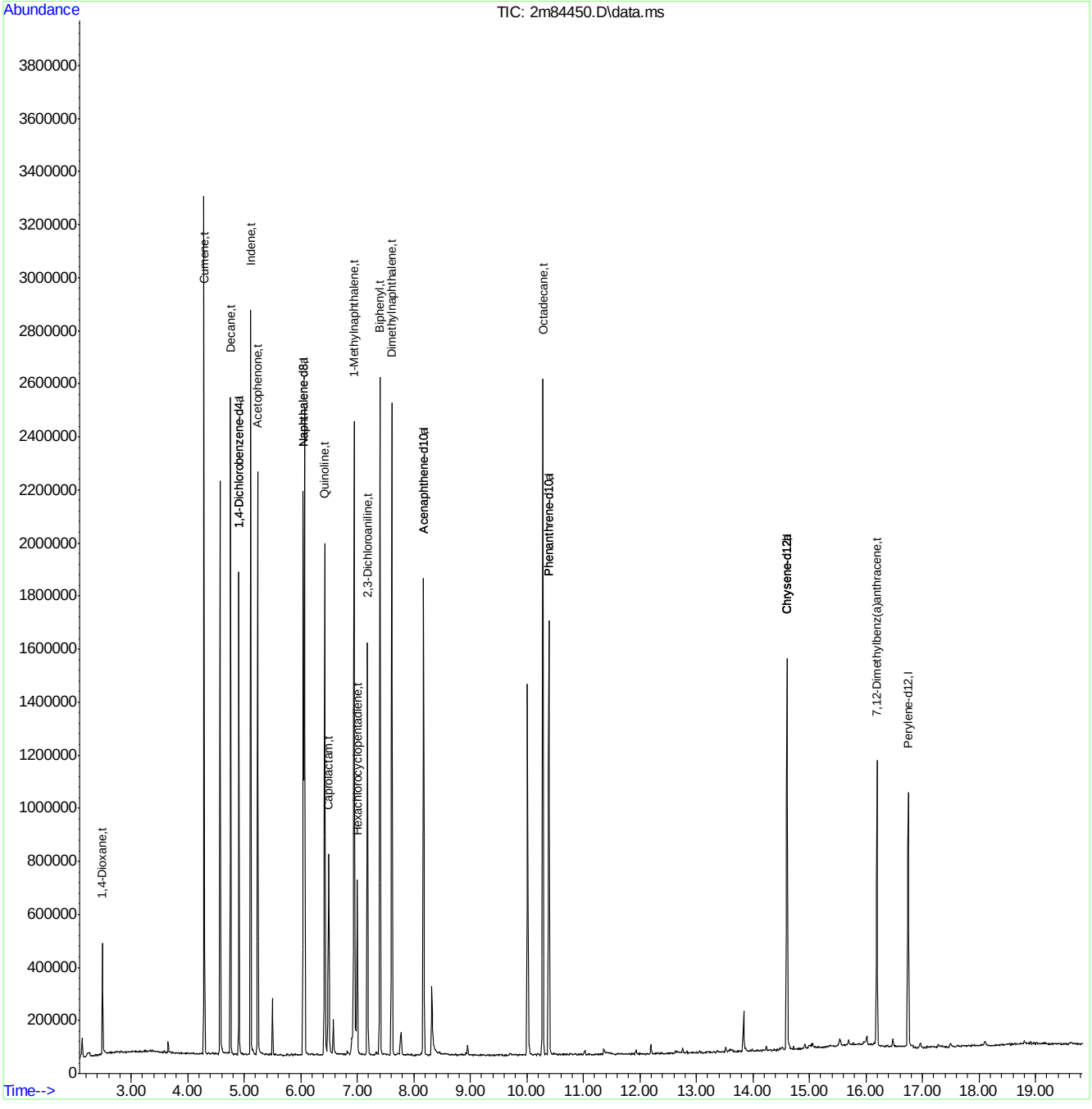
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e2m3721\
Data File : 2m84450.D
Acq On : 7 Jun 2016 5:25 pm
Operator : ashleyn
Sample : icv3720-50
Misc : op94122,e2m3721
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 09:04:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Jun 07 16:18:16 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85108.D
Acq On : 28 Jun 2016 10:09 am
Operator : ashleyn
Sample : cc3720-25
Misc : op94766,e2m3754
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Mon Jun 27 16:37:24 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.836	152	130661	40.00 ppm	-0.05
24) Naphthalene-d8	5.959	136	561803	40.00 ppm	-0.05
47) Acenaphthene-d10	8.067	164	357030	40.00 ppm	-0.06
69) Phenanthrene-d10	10.276	188	599514	40.00 ppm	-0.07
83) Chrysene-d12	14.496	240	410015	40.00 ppm	-0.07
91) Perylene-d12	16.635	264	270750	40.00 ppm	-0.08
101) 1,4-Dichlorobenzene-d4a	4.836	152	130661	40.00 ppm	-0.05
103) Acenaphthene-d10a	8.067	164	357030	40.00 ppm	-0.06
105) Chrysene-d12a	14.496	240	410015	40.00 ppm	-0.07
108) Phenanthrene-d10a	10.276	188	599514	40.00 ppm	-0.07
111) Naphthalene-d8a	5.959	136	561803	40.00 ppm	-0.05
113) Chrysene-d12b	14.496	240	409539	40.00 ppm	-0.07

System Monitoring Compounds					
5) 2-Fluorophenol	3.889	112	103183	22.31 ppm	-0.04
Spiked Amount 50.000			Recovery = 44.62%		
8) Phenol-d5	4.601	99	144048	24.61 ppm	-0.04
Spiked Amount 50.000			Recovery = 49.22%		
25) Nitrobenzene-d5	5.301	82	137967	22.26 ppm	-0.04
Spiked Amount 50.000			Recovery = 44.52%		
51) 2-Fluorobiphenyl	7.173	172	245603	21.34 ppm	-0.06
Spiked Amount 50.000			Recovery = 42.68%		
73) 2,4,6-Tribromophenol	9.233	330	34014	20.47 ppm	-0.07
Spiked Amount 50.000			Recovery = 40.94%		
85) Terphenyl-d14	12.832	244	225875	24.08 ppm	-0.09
Spiked Amount 50.000			Recovery = 48.16%		
107) 1-chlorooctadecane	0.000	57	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
110) o-terphenyl	0.000	230	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.402	88	41797	24.27 ppm	95
6) Indene	5.039	116	221371	25.51 ppm	99
7) Cumene	4.216	105	323244	25.39 ppm	99
9) Phenol	4.611	94	182795	25.30 ppm	92
10) Aniline	4.595	93	165619	23.09 ppm	79
11) bis(2-Chloroethyl)ether	4.627	93	129538	25.65 ppm	96
12) 2-Chlorophenol	4.692	128	128061	26.71 ppm	98
13) Decane	4.681	43	125458	24.55 ppm	97
14) 1,3-Dichlorobenzene	4.788	146	134018	24.79 ppm	99
15) 1,4-Dichlorobenzene	4.847	146	139360	25.83 ppm	99
16) Benzyl alcohol	4.964	108	83488	25.81 ppm	91
17) 1,2-Dichlorobenzene	4.970	146	129447	25.49 ppm	97
18) Acetophenone	5.168	105	185649	26.20 ppm	97
19) 2-Methylphenol	5.066	108	117375	24.89 ppm	95
20) 2,2'-oxybis(1-Chloropr...	5.045	45	147958	23.11 ppm	93
21) 3&4-Methylphenol	5.200	108	123196	24.24 ppm	99
22) n-Nitroso-di-n-propyla...	5.157	70	93515	23.81 ppm	96
23) Hexachloroethane	5.237	201	46713	27.29 ppm	93

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85108.D
Acq On : 28 Jun 2016 10:09 am
Operator : ashleyn
Sample : cc3720-25
Misc : op94766,e2m3754
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Mon Jun 27 16:37:24 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
26) Nitrobenzene	5.317	77	143651	22.56 ppm	97
27) Quinoline	6.339	129	238017	23.29 ppm	96
28) Isophorone	5.521	82	242045	22.20 ppm	96
29) 2-Nitrophenol	5.601	139	73234	25.69 ppm	94
30) 2,4-Dimethylphenol	5.649	107	142429	25.80 ppm	96
31) Benzoic acid	5.772	105	84498	26.02 ppm	89
32) bis(2-Chloroethoxy)met...	5.708	93	139831	22.61 ppm	99
33) 2,4-Dichlorophenol	5.858	162	102994	24.53 ppm	99
34) 2,6-Dichlorophenol	6.056	162	101303	24.60 ppm	98
35) 1,3,5-Trichlorobenzene	5.596	180	119621	24.85 ppm	97
36) 1,2,4-Trichlorobenzene	5.900	180	107971	23.29 ppm	96
37) 1,2,3-Trichlorobenzene	6.125	180	110298	24.46 ppm	98
38) Naphthalene	5.981	128	368397	23.74 ppm	99
39) 4-Chloroaniline	6.050	127	137474	22.90 ppm	97
40) 2,3-Dichloroaniline	7.088	161	121686	23.72 ppm	98
41) Caprolactam	6.435	55	55312	22.09 ppm	96
42) Hexachlorobutadiene	6.082	225	61975	24.32 ppm	97
43) 4-Chloro-3-methylphenol	6.606	107	119574	24.09 ppm	81
44) 2-Methylnaphthalene	6.729	141	207831	24.06 ppm	97
45) 1-Methylnaphthalene	6.847	141	220796	24.41 ppm	95
46) Dimethylnaphthalene	7.505	156	221967	24.14 ppm	94
48) Hexachlorocyclopentadiene	6.901	237	31736	30.21 ppm	97
49) 2,4,6-Trichlorophenol	7.099	196	75246	22.87 ppm	94
50) 2,4,5-Trichlorophenol	7.173	196	70826	20.94 ppm	99
52) 2-Chloronaphthalene	7.334	162	226708	21.88 ppm	98
53) Biphenyl	7.302	154	301996	21.78 ppm	98
54) 2-Nitroaniline	7.500	65	82372	19.93 ppm	97
55) Dimethylphthalate	7.714	163	246145	20.95 ppm	99
56) Acenaphthylene	7.879	152	367673	21.23 ppm	99
57) 2,6-Dinitrotoluene	7.821	165	55178	20.64 ppm	99
58) 3-Nitroaniline	8.067	138	64679	20.91 ppm	85
59) Acenaphthene	8.115	153	228297	21.50 ppm	95
60) 2,4-Dinitrophenol	8.254	184	29948	34.29 ppm	85
61) 4-Nitrophenol	8.446	109	27208	19.69 ppm	80
62) Dibenzofuran	8.361	168	313396	21.38 ppm	100
63) 2,4-Dinitrotoluene	8.404	165	76711	20.67 ppm	91
64) 2,3,4,6-Tetrachlorophenol	8.575	232	48419	23.36 ppm	92
65) Diethylphthalate	8.719	149	271445	22.10 ppm	98
66) Fluorene	8.858	166	259947	21.95 ppm	93
67) 4-Chlorophenyl-phenyle...	8.864	204	120000	21.79 ppm	98
68) 4-Nitroaniline	8.960	138	61283	19.30 ppm	84
70) 4,6-Dinitro-2-methylph...	9.013	198	33730	19.61 ppm	87
71) n-Nitrosodiphenylamine	9.056	169	168202	21.33 ppm	94
72) 1,2-Diphenylhydrazine	9.104	77	302595	21.84 ppm	99
74) 4-Bromophenyl-phenylether	9.596	248	70819	21.82 ppm	90
75) Hexachlorobenzene	9.682	284	80716	21.33 ppm	98
76) Pentachlorophenol	10.030	266	42583	44.68 ppm	93
77) Phenanthrene	10.313	178	358034	20.58 ppm	99
78) Anthracene	10.393	178	368876	21.02 ppm	99
79) Carbazole	10.687	167	332856	20.79 ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85108.D
Acq On : 28 Jun 2016 10:09 am
Operator : ashleyn
Sample : cc3720-25
Misc : op94766,e2m3754
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Mon Jun 27 16:37:24 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) Di-n-butylphthalate	11.260	149	423892	20.61 ppm	99
81) Fluoranthene	12.196	202	346528	19.62 ppm	98
82) Octadecane	10.163	57	166943	19.73 ppm	98
84) Pyrene	12.549	202	350776	25.06 ppm	99
86) Butylbenzylphthalate	13.651	149	184708	26.63 ppm	95
87) Benzo[a]anthracene	14.480	228	315455	24.38 ppm	97
88) 3,3'-Dichlorobenzidine	14.474	252	115694	23.48 ppm	93
89) Chrysene	14.538	228	283688	23.52 ppm	98
90) bis(2-Ethylhexyl)phtha...	14.592	149	231205	25.52 ppm	97
92) Di-n-octylphthalate	15.587	149	353725	28.72 ppm	97
93) Benzo[b]fluoranthene	16.106	252	221092	24.41 ppm	99
94) Benzo[k]fluoranthene	16.143	252	200314	24.34 ppm	96
95) Benzo[a]pyrene	16.560	252	187605	25.11 ppm	96
96) Indeno[1,2,3-cd]pyrene	18.357	276	204520	23.05 ppm	92
97) Dibenz(a,h)acridine	17.940	279	148330	22.35 ppm	99
98) Dibenz[a,h]anthracene	18.368	278	175955	23.01 ppm	95
99) 7,12-Dimethylbenz(a)an...	16.074	256	109058	27.46 ppm	96
100) Benzo[g,h,i]perylene	18.844	276	167456	22.09 ppm	92

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

7.6.15

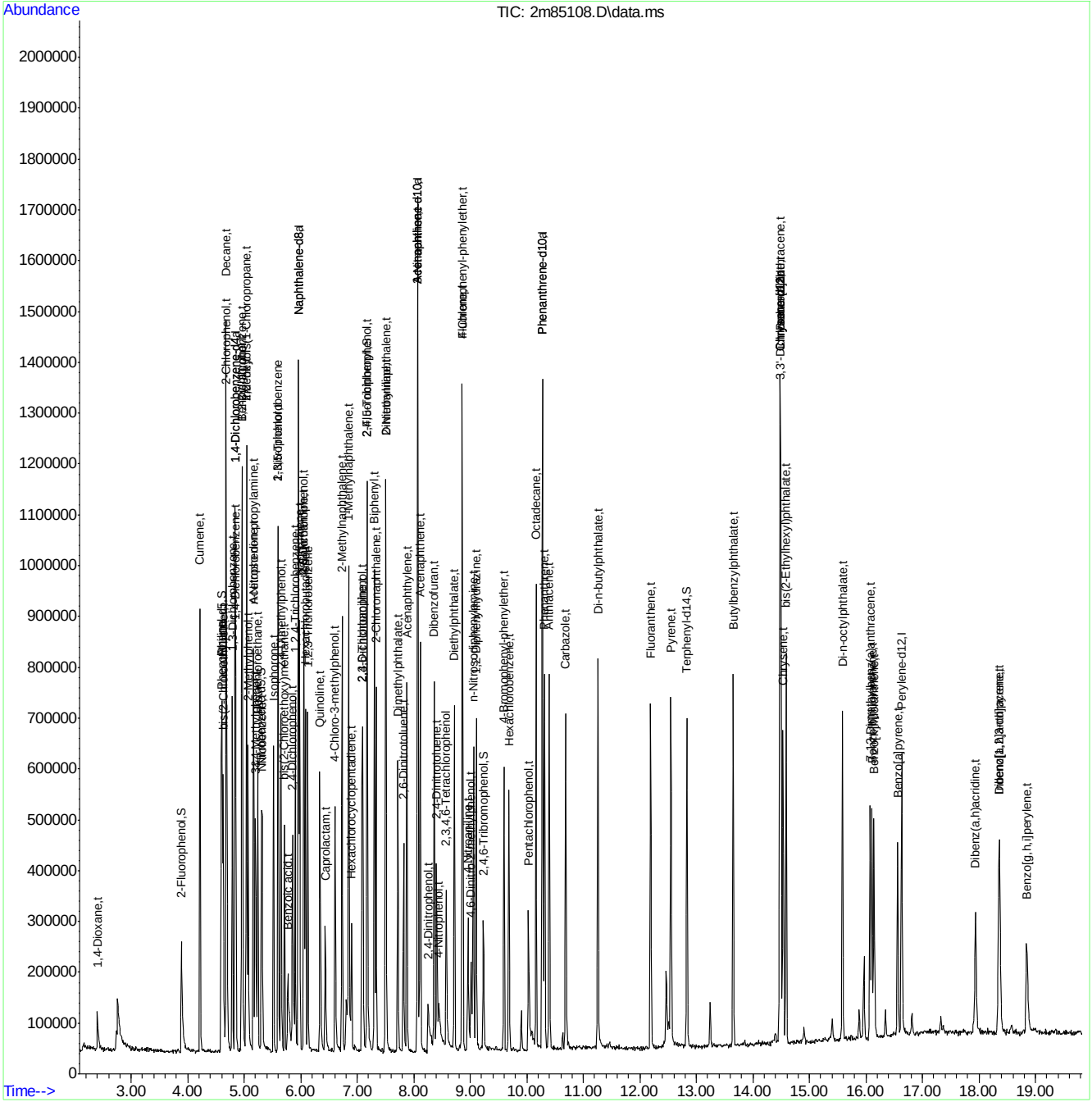
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E2M3754\
Data File : 2m85108.D
Acq On : 28 Jun 2016 10:09 am
Operator : ashleyn
Sample : cc3720-25
Misc : op94766,e2m3754
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M2M3720.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Mon Jun 27 16:37:24 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	746360	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	1132165	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1784341	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1292564	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	519849	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
4) Phenol-d5	6.345	99	829923	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
7) Nitrobenzene-d5	7.952	82	635385	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
15) 2-Fluorobiphenyl	11.537	172	1446223	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
20) 2,4,6-Tribromophenol	14.422	330	119847	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
28) Terphenyl-d14	18.867	244	1119414	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	9938	0.20	ppm	# 72
5) Phenol	6.370	94	225453	1.00	ppm	# 76
6) bis(2-Chloroethyl)ether	6.515	93	34022	0.20	ppm	# 65
8) Nitrobenzene	7.989	77	36647	0.20	ppm	# 60
9) Naphthalene	9.383	128	97044	0.20	ppm	93
10) Hexachlorobutadiene	9.684	225	15095	0.20	ppm	78
11) 2-Methylnaphthalene	10.743	141	52067	0.20	ppm	75
12) 1-Methylnaphthalene	10.948	141	56526	0.20	ppm	70
13) Hexachlorocyclopentadiene	11.112	237	17898	0.40	ppm	81
16) Acenaphthylene	12.527	152	88333	0.20	ppm	98
17) Acenaphthene	12.898	153	58820	0.20	ppm	95
18) 4,6-dinitro-2-methylph...	14.083	198	8809	1.00	ppm	68
19) Fluorene	13.932	166	66597	0.20	ppm	89
22) Hexachlorobenzene	15.065	284	18430	0.20	ppm	96
23) Pentachlorophenol	15.467	266	25357	1.00	ppm	98
24) Phenanthrene	15.853	178	92098	0.20	ppm	100
25) Anthracene	15.946	178	80458	0.20	ppm	100
26) Fluoranthene	18.110	202	104719	0.20	ppm	100
27) Pyrene	18.496	202	99859	0.20	ppm	99
29) Benzo[a]anthracene	20.582	228	79934	0.20	ppm	99
30) Chrysene	20.644	228	85863	0.20	ppm	99
32) Benzo[b]fluoranthene	22.245	252	91730	0.20	ppm	97
33) Benzo[k]fluoranthene	22.283	252	86718	0.20	ppm	97
34) Benzo[a]pyrene	22.697	252	86961	0.20	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.258	276	75545	0.20	ppm	96
36) Dibenz[a,h]anthracene	24.295	278	61064	0.20	ppm	70
37) Benzo[g,h,i]perylene	24.672	276	69114	0.20	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration

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

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

7.6.16

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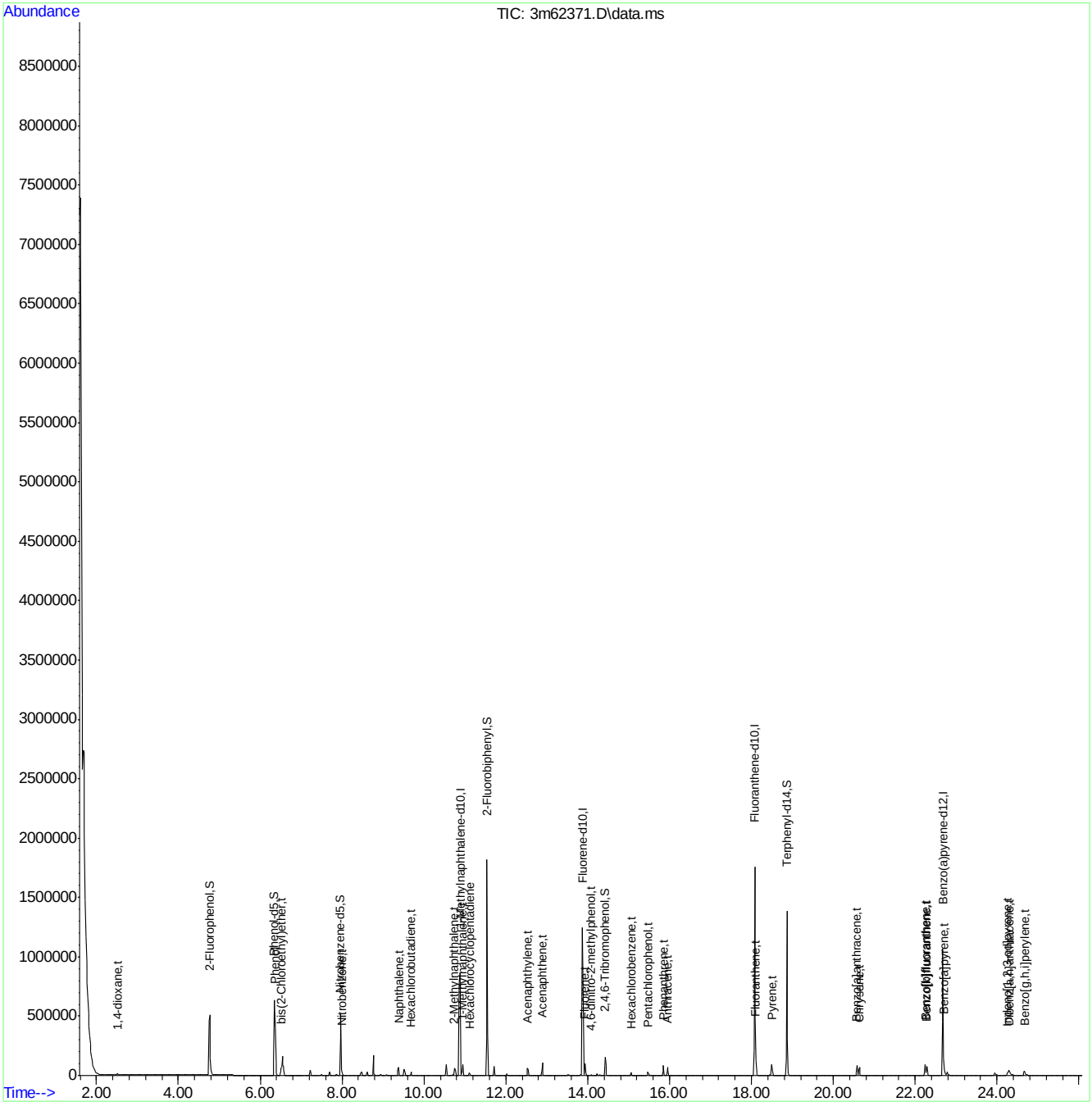
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	687709	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	1021527	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1617402	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1150136	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	215637	1.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.60%	
4) Phenol-d5	6.345	99	342725	1.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.58%	
7) Nitrobenzene-d5	7.971	82	253595	1.73	ppm	0.02
Spiked Amount 50.000			Recovery	=	3.46%	
15) 2-Fluorobiphenyl	11.537	172	599071	1.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.68%	
20) 2,4,6-Tribromophenol	14.422	330	39741	1.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.94%	
28) Terphenyl-d14	18.867	244	435469	1.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.44%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	4052	0.09	ppm #	73
5) Phenol	6.369	94	93421	0.45	ppm #	76
6) bis(2-Chloroethyl)ether	6.515	93	14129	0.09	ppm #	65
8) Nitrobenzene	7.989	77	14905	0.09	ppm #	58
9) Naphthalene	9.383	128	39406	0.09	ppm	93
10) Hexachlorobutadiene	9.684	225	6208	0.09	ppm	77
11) 2-Methylnaphthalene	10.743	141	19304	0.08	ppm	74
12) 1-Methylnaphthalene	10.948	141	23378	0.09	ppm #	69
13) Hexachlorocyclopentadiene	11.112	237	6480	0.16	ppm	80
16) Acenaphthylene	12.527	152	33748	0.08	ppm	97
17) Acenaphthene	12.898	153	22436	0.08	ppm	94
18) 4,6-dinitro-2-methylph...	14.083	198	2442	0.31	ppm #	1
19) Fluorene	13.932	166	26055	0.09	ppm	88
22) Hexachlorobenzene	15.065	284	7350	0.09	ppm	98
23) Pentachlorophenol	15.467	266	6279	0.27	ppm	95
24) Phenanthrene	15.853	178	35554	0.09	ppm	99
25) Anthracene	15.946	178	29452	0.08	ppm	98
26) Fluoranthene	18.110	202	46301	0.10	ppm	99
27) Pyrene	18.496	202	39190	0.09	ppm	99
29) Benzo[a]anthracene	20.582	228	28616	0.08	ppm	100
30) Chrysene	20.644	228	38226	0.10	ppm	100
32) Benzo[b]fluoranthene	22.245	252	30818	0.08	ppm	96
33) Benzo[k]fluoranthene	22.283	252	35762	0.09	ppm	97
34) Benzo[a]pyrene	22.697	252	36780	0.10	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	24907	0.07	ppm	95
36) Dibenz[a,h]anthracene	24.295	278	19720	0.07	ppm	66
37) Benzo[g,h,i]perylene	24.672	276	24545	0.08	ppm	98

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration

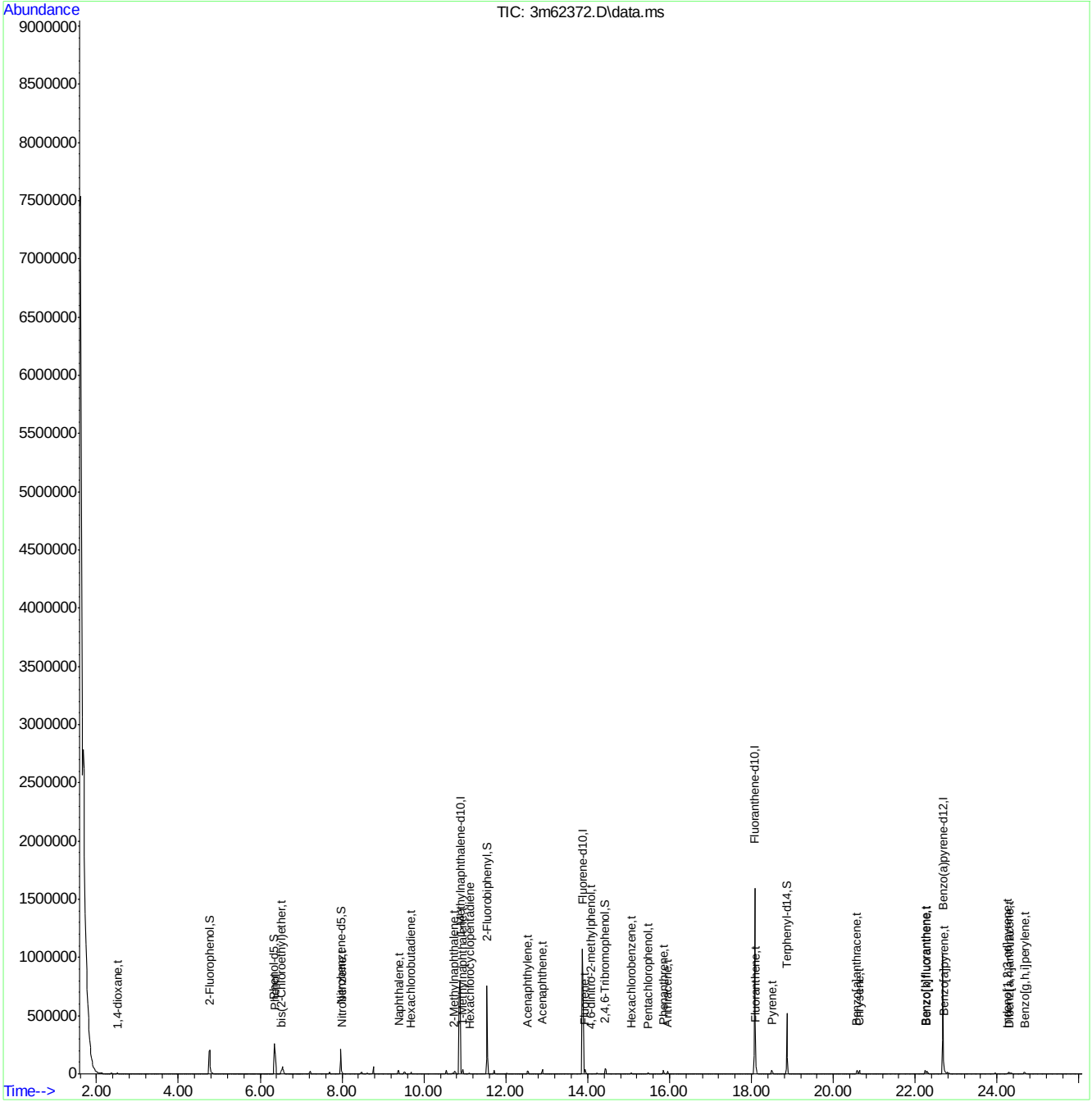
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	560953	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	738238	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1136326	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	795917	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	1770750	19.08	ppm	0.00
Spiked Amount 50.000			Recovery = 38.16%			
4) Phenol-d5	6.357	99	2788469	18.86	ppm	0.01
Spiked Amount 50.000			Recovery = 37.72%			
7) Nitrobenzene-d5	7.971	82	2324446	20.86	ppm	0.00
Spiked Amount 50.000			Recovery = 41.72%			
15) 2-Fluorobiphenyl	11.537	172	4893460	21.64	ppm	0.00
Spiked Amount 50.000			Recovery = 43.28%			
20) 2,4,6-Tribromophenol	14.422	330	484189	28.57	ppm	0.00
Spiked Amount 50.000			Recovery = 57.14%			
28) Terphenyl-d14	18.867	244	3770409	22.77	ppm	0.00
Spiked Amount 50.000			Recovery = 45.54%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	34156	0.97	ppm #	72
5) Phenol	6.370	94	779251	4.84	ppm #	80
6) bis(2-Chloroethyl)ether	6.515	93	116885	0.96	ppm #	66
8) Nitrobenzene	7.989	77	134103	1.03	ppm #	59
9) Naphthalene	9.383	128	337949	0.99	ppm	94
10) Hexachlorobutadiene	9.684	225	51291	0.96	ppm	77
11) 2-Methylnaphthalene	10.743	141	169641	0.96	ppm	72
12) 1-Methylnaphthalene	10.948	141	203303	1.01	ppm	72
13) Hexachlorocyclopentadiene	11.112	237	70680	2.35	ppm	78
16) Acenaphthylene	12.542	152	318177	1.20	ppm	90
17) Acenaphthene	12.898	153	208912	1.18	ppm	92
18) 4,6-dinitro-2-methylph...	14.083	198	49338	10.64	ppm	74
19) Fluorene	13.932	166	228671	1.13	ppm	87
22) Hexachlorobenzene	15.065	284	65163	1.18	ppm	96
23) Pentachlorophenol	15.467	266	114448	9.17	ppm	99
24) Phenanthrene	15.853	178	333014	1.23	ppm	99
25) Anthracene	15.946	178	299136	1.29	ppm	98
26) Fluoranthene	18.110	202	359096	1.09	ppm	100
27) Pyrene	18.496	202	346998	1.17	ppm	98
29) Benzo[a]anthracene	20.582	228	261540	1.15	ppm	99
30) Chrysene	20.644	228	290022	1.07	ppm	100
32) Benzo[b]fluoranthene	22.245	252	290938	1.17	ppm	95
33) Benzo[k]fluoranthene	22.283	252	296199	1.15	ppm	95
34) Benzo[a]pyrene	22.697	252	274207	1.05	ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	247701	1.22	ppm	99
36) Dibenz[a,h]anthracene	24.295	278	197993	1.22	ppm	91
37) Benzo[g,h,i]perylene	24.672	276	223523	1.17	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration

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

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

7.6.18

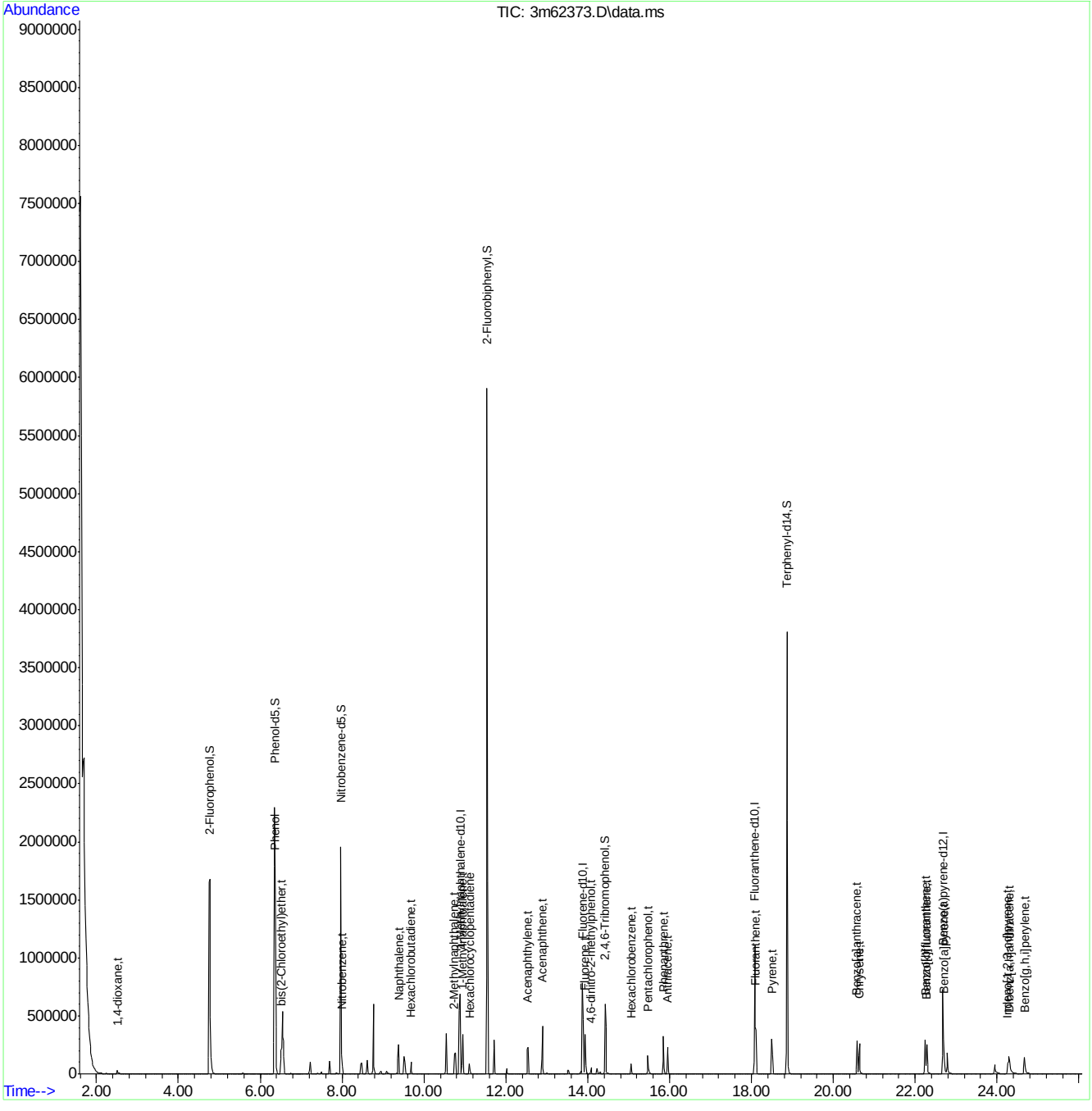
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	524241	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	698845	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1076504	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	714394	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	866880	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
4) Phenol-d5	6.345	99	1391997	10.27	ppm	-0.01
Spiked Amount 50.000			Recovery = 20.54%			
7) Nitrobenzene-d5	7.952	82	1132793	10.73	ppm	-0.02
Spiked Amount 50.000			Recovery = 21.46%			
15) 2-Fluorobiphenyl	11.537	172	2460723	11.19	ppm	0.00
Spiked Amount 50.000			Recovery = 22.38%			
20) 2,4,6-Tribromophenol	14.422	330	218010	11.89	ppm	0.00
Spiked Amount 50.000			Recovery = 23.78%			
28) Terphenyl-d14	18.867	244	1853991	11.30	ppm	0.00
Spiked Amount 50.000			Recovery = 22.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	16484	0.51	ppm	75
5) Phenol	6.369	94	386917	2.60	ppm #	78
6) bis(2-Chloroethyl)ether	6.515	93	57628	0.51	ppm #	68
8) Nitrobenzene	7.989	77	63935	0.52	ppm #	60
9) Naphthalene	9.383	128	165765	0.52	ppm	94
10) Hexachlorobutadiene	9.684	225	25095	0.51	ppm	77
11) 2-Methylnaphthalene	10.763	141	82525	0.51	ppm #	71
12) 1-Methylnaphthalene	10.948	141	100435	0.53	ppm	73
13) Hexachlorocyclopentadiene	11.112	237	31790	1.07	ppm	79
16) Acenaphthylene	12.542	152	147905	0.55	ppm	90
17) Acenaphthene	12.898	153	101641	0.57	ppm	93
18) 4,6-dinitro-2-methylph...	14.083	198	17820	2.95	ppm	67
19) Fluorene	13.932	166	113108	0.57	ppm	88
22) Hexachlorobenzene	15.065	284	31826	0.57	ppm	97
23) Pentachlorophenol	15.467	266	41546	2.75	ppm	99
24) Phenanthrene	15.853	178	159982	0.58	ppm	100
25) Anthracene	15.946	178	140300	0.58	ppm	99
26) Fluoranthene	18.110	202	172862	0.54	ppm	100
27) Pyrene	18.496	202	158726	0.53	ppm	98
29) Benzo[a]anthracene	20.582	228	117144	0.52	ppm	98
30) Chrysene	20.644	228	144335	0.55	ppm	99
32) Benzo[b]fluoranthene	22.245	252	117056	0.50	ppm	93
33) Benzo[k]fluoranthene	22.283	252	138073	0.57	ppm	95
34) Benzo[a]pyrene	22.697	252	112327	0.47	ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	102481	0.52	ppm	97
36) Dibenz[a,h]anthracene	24.295	278	82981	0.53	ppm	55
37) Benzo[g,h,i]perylene	24.672	276	97296	0.54	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration

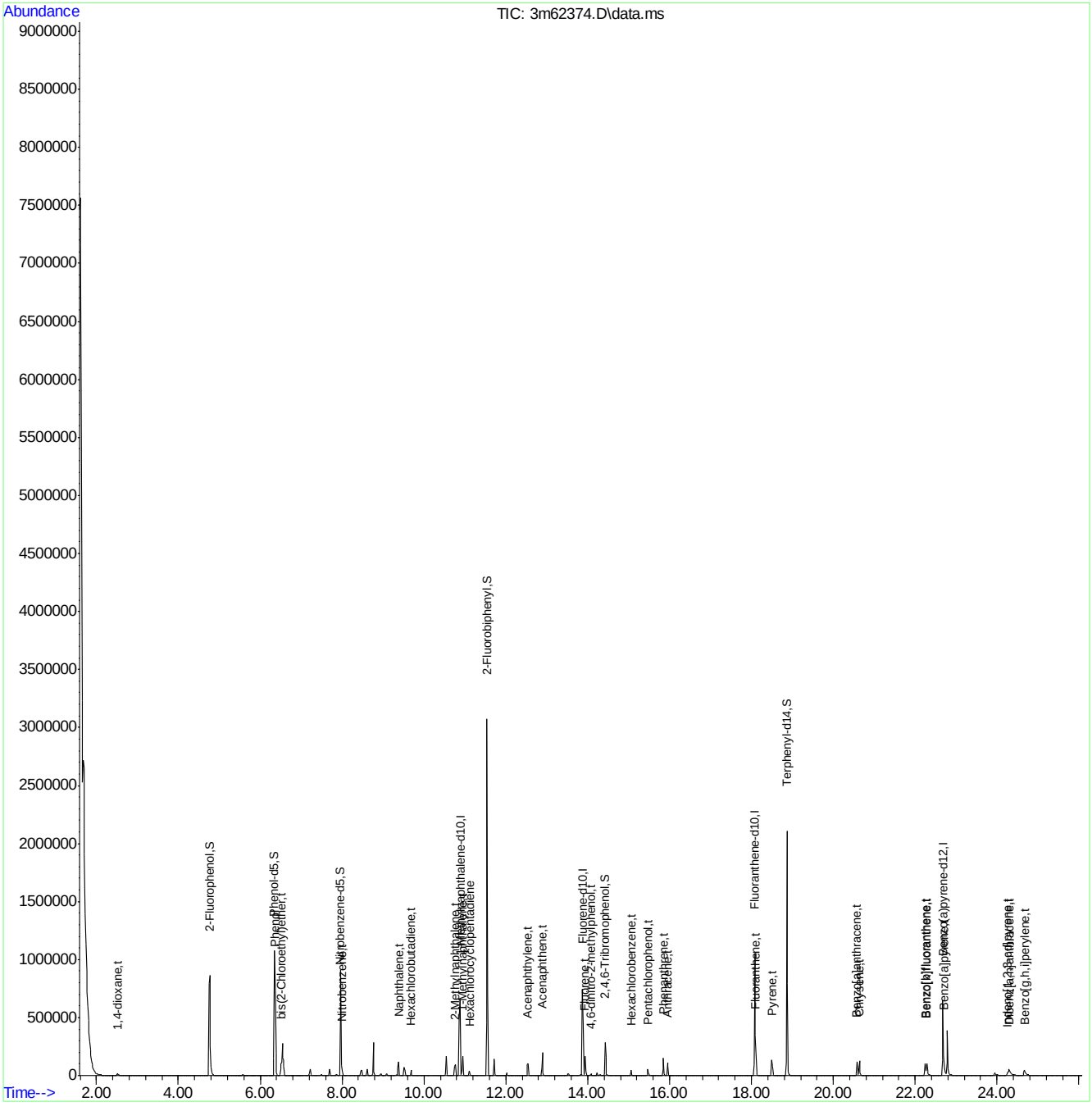
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62376.D
Acq On : 20 Jun 2016 9:36 pm
Operator : ashleyd
Sample : ic2942-0.02
Misc : op94419a,e3m2942
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 22:16:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:50 2016
Response via : Initial Calibration

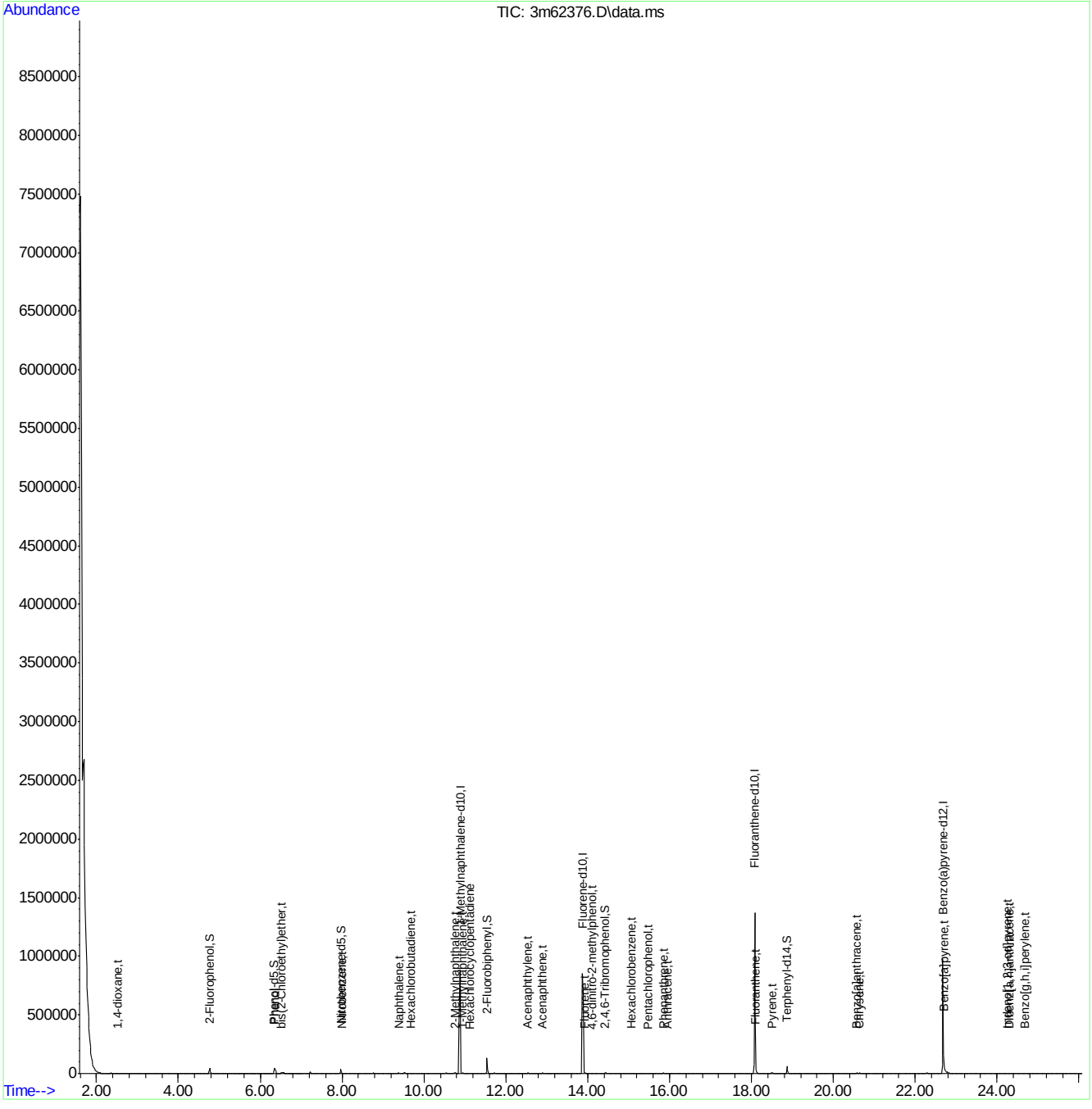
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	638422	4.00	ppm	0.00
14) Fluorene-d10	13.876	176	926948	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1476996	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1032846	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	38852	0.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.74%	
4) Phenol-d5	6.345	99	60388	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
7) Nitrobenzene-d5	7.971	82	44329	0.34	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.68%	
15) 2-Fluorobiphenyl	11.537	172	106932	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
20) 2,4,6-Tribromophenol	14.422	330	5432	0.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.42%	
28) Terphenyl-d14	18.867	244	64698	0.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	953	0.02	ppm	81
5) Phenol	6.370	94	16612	0.09	ppm #	87
6) bis(2-Chloroethyl)ether	6.515	93	2558	0.02	ppm	90
8) Nitrobenzene	7.989	77	2448	0.02	ppm #	52
9) Naphthalene	9.383	128	7469	0.02	ppm	94
10) Hexachlorobutadiene	9.684	225	1118	0.02	ppm	73
11) 2-Methylnaphthalene	10.763	141	6160	0.03	ppm	74
12) 1-Methylnaphthalene	10.948	141	4549	0.02	ppm	74
13) Hexachlorocyclopentadiene	11.112	237	831	0.02	ppm #	76
16) Acenaphthylene	12.542	152	5683	0.02	ppm	91
17) Acenaphthene	12.898	153	3871	0.02	ppm	90
18) 4,6-dinitro-2-methylph...	14.102	198	515	0.06	ppm #	48
19) Fluorene	13.932	166	4511	0.02	ppm	90
22) Hexachlorobenzene	15.065	284	1365	0.02	ppm	96
23) Pentachlorophenol	15.482	266	1624	0.08	ppm	91
24) Phenanthrene	15.853	178	6273	0.02	ppm	98
25) Anthracene	15.946	178	4659	0.01	ppm	98
26) Fluoranthene	18.110	202	11783	0.03	ppm	98
27) Pyrene	18.496	202	7982	0.02	ppm	98
29) Benzo[a]anthracene	20.582	228	5144	0.02	ppm	97
30) Chrysene	20.644	228	9509	0.03	ppm	96
34) Benzo[a]pyrene	22.697	252	11690	0.03	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.258	276	2989	0.01	ppm	97
36) Dibenz[a,h]anthracene	24.296	278	2179	0.01	ppm	66
37) Benzo[g,h,i]perylene	24.672	276	3139	0.01	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62376.D
Acq On : 20 Jun 2016 9:36 pm
Operator : ashleyd
Sample : ic2942-0.02
Misc : op94419a,e3m2942
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 22:16:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62377.D
Acq On : 20 Jun 2016 10:10 pm
Operator : ashleyd
Sample : ic2942-0.01
Misc : op94419a,e3m2942
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 22:55:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:16:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	601557	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	867178	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1350669	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	891426	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	17307	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
4) Phenol-d5	6.345	99	27285	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
7) Nitrobenzene-d5	7.970	82	19802	0.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.32%	
15) 2-Fluorobiphenyl	11.537	172	47157	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
20) 2,4,6-Tribromophenol	14.422	330	2299	0.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.20%	
28) Terphenyl-d14	18.867	244	27546	0.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.26%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	545	0.01	ppm #	54
5) Phenol	6.369	94	7517	0.04	ppm #	90
6) bis(2-Chloroethyl)ether	6.514	93	1190	0.01	ppm	90
8) Nitrobenzene	7.989	77	1102	0.01	ppm #	53
9) Naphthalene	9.383	128	3371	0.01	ppm	95
10) Hexachlorobutadiene	9.684	225	515	0.01	ppm	75
11) 2-Methylnaphthalene	10.763	141	4533	0.02	ppm	78
12) 1-Methylnaphthalene	10.947	141	2086	0.01	ppm	73
13) Hexachlorocyclopentadiene	11.112	237	333	0.01	ppm #	71
16) Acenaphthylene	12.542	152	2520	0.01	ppm	90
17) Acenaphthene	12.897	153	1776	0.01	ppm	94
18) 4,6-dinitro-2-methylph...	14.101	198	353	0.05	ppm #	44
22) Hexachlorobenzene	15.065	284	655	0.01	ppm	97
23) Pentachlorophenol	15.482	266	1182	0.06	ppm	96
24) Phenanthrene	15.853	178	3008	0.01	ppm	97
25) Anthracene	15.946	178	2109	0.01	ppm	98
26) Fluoranthene	18.109	202	7405	0.02	ppm	98
27) Pyrene	18.496	202	4718	0.01	ppm	96
29) Benzo[a]anthracene	20.582	228	3007	0.01	ppm	97
30) Chrysene	20.643	228	5892	0.02	ppm	98
34) Benzo[a]pyrene	22.696	252	8391	0.03	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	1281	0.01	ppm	92
36) Dibenz[a,h]anthracene	24.295	278	955	0.00	ppm	71
37) Benzo[g,h,i]perylene	24.671	276	1806	0.01	ppm	97

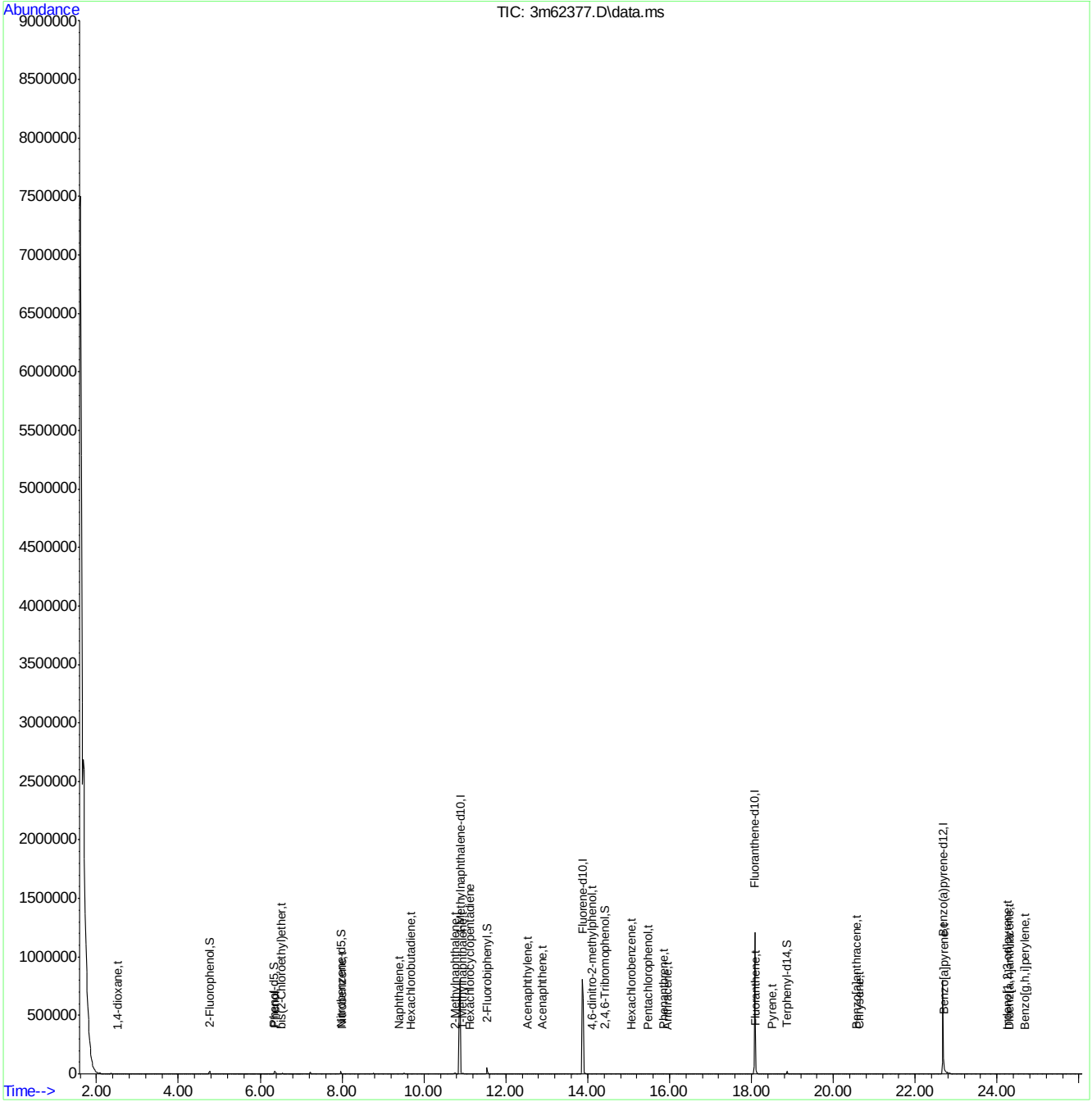
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62377.D
Acq On : 20 Jun 2016 10:10 pm
Operator : ashleyd
Sample : ic2942-0.01
Misc : op94419a,e3m2942
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 22:55:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:16:59 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jun 20 22:55:45 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	600602	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	857773	4.00	ppm	0.02
21) Fluoranthene-d10	18.079	212	1312499	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	962800	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	8564918	87.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	174.42%	
4) Phenol-d5	6.370	99	13518401	86.47	ppm	0.02
Spiked Amount 50.000			Recovery	=	172.94%	
7) Nitrobenzene-d5	7.971	82	10955089	88.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	177.86%	
15) 2-Fluorobiphenyl	11.553	172	15352393	57.85	ppm	0.02
Spiked Amount 50.000			Recovery	=	115.70%	
20) 2,4,6-Tribromophenol	14.441	330	3140266	133.24	ppm	0.02
Spiked Amount 50.000			Recovery	=	266.48%	
28) Terphenyl-d14	18.882	244	15545206	75.25	ppm	0.02
Spiked Amount 50.000			Recovery	=	150.50%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.499	88	186962	5.00	ppm #	36
5) Phenol	6.394	94	3799210	22.48	ppm #	55
6) bis(2-Chloroethyl)ether	6.515	93	596906	4.73	ppm #	68
8) Nitrobenzene	8.008	77	693851	5.25	ppm	97
9) Naphthalene	9.383	128	1767896	4.90	ppm	95
10) Hexachlorobutadiene	9.684	225	251136	4.55	ppm	73
11) 2-Methylnaphthalene	10.763	141	887119	4.74	ppm	77
12) 1-Methylnaphthalene	10.948	141	1071882	4.94	ppm	78
13) Hexachlorocyclopentadiene	11.112	237	448305	12.94	ppm #	72
16) Acenaphthylene	12.542	152	1728196	5.57	ppm	92
17) Acenaphthene	12.898	153	1088142	5.19	ppm	87
18) 4,6-dinitro-2-methylph...	14.101	198	625697	80.76	ppm	74
19) Fluorene	13.932	166	1111209	4.54	ppm	80
22) Hexachlorobenzene	15.065	284	325659	4.83	ppm	90
23) Pentachlorophenol	15.467	266	835976	44.27	ppm	91
24) Phenanthrene	15.853	178	1641735	4.68	ppm	97
25) Anthracene	15.962	178	1645612	5.38	ppm	91
26) Fluoranthene	18.110	202	1797990	4.50	ppm	97
27) Pyrene	18.496	202	1849683	5.02	ppm	96
29) Benzo[a]anthracene	20.582	228	1395780	5.01	ppm	96
30) Chrysene	20.644	228	1549380	4.72	ppm	97
32) Benzo[b]fluoranthene	22.245	252	1461257	4.61	ppm	89
33) Benzo[k]fluoranthene	22.283	252	1521685	4.50	ppm	88
34) Benzo[a]pyrene	22.697	252	1232922	3.89	ppm	92
35) Indeno[1,2,3-cd]pyrene	24.277	276	1368173	5.14	ppm	90
36) Dibenz[a,h]anthracene	24.314	278	1102426	5.15	ppm	95
37) Benzo[g,h,i]perylene	24.672	276	1202870	4.83	ppm	100

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration

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

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

7.6.22

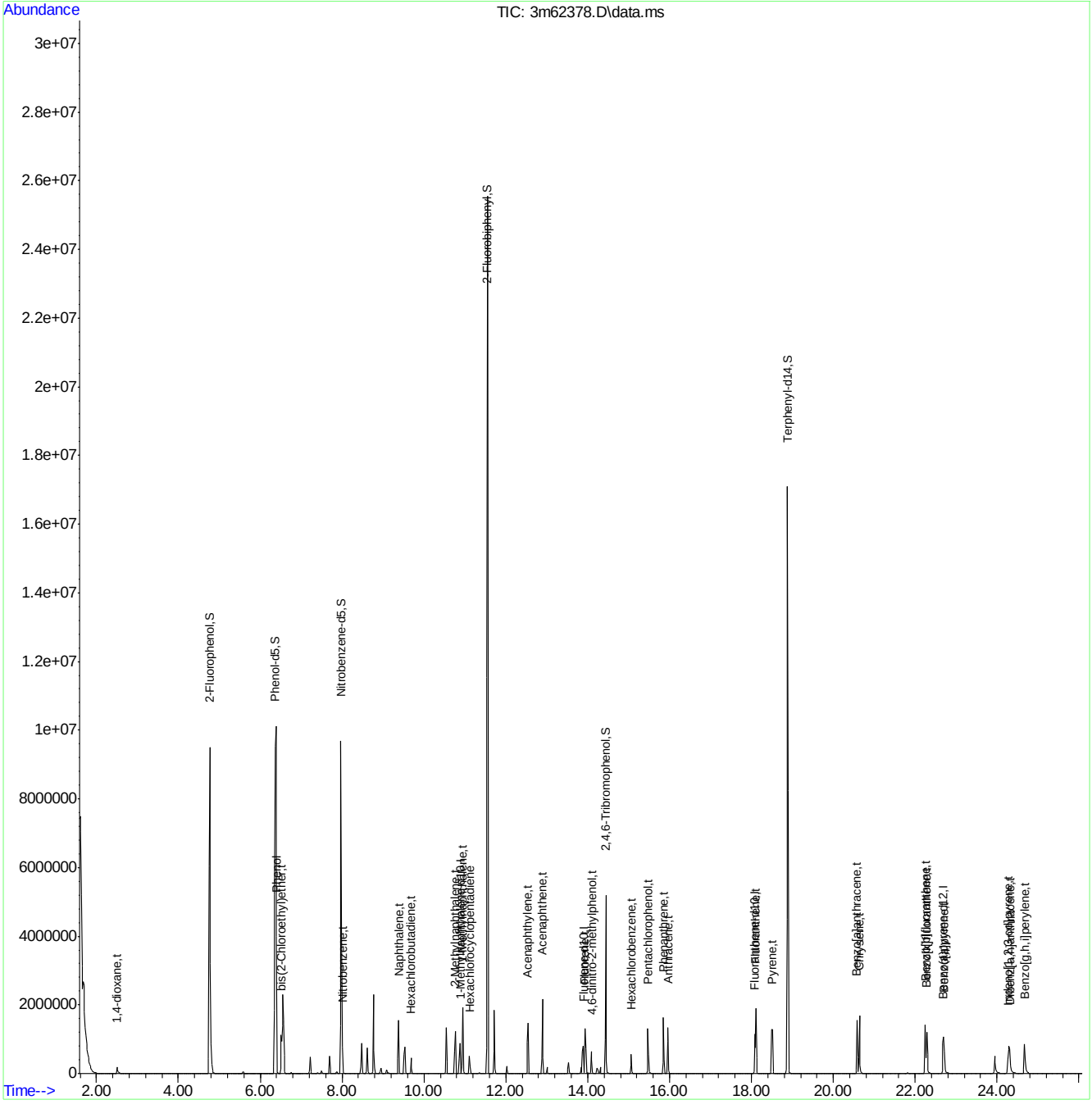
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.886	150	579707	4.00	ppm		0.00
14) Fluorene-d10	13.894	176	818906	4.00	ppm		0.00
21) Fluoranthene-d10	18.079	212	1258402	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.678	264	930705	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.770	112	4289950	46.44	ppm		0.00
Spiked Amount 50.000			Recovery = 92.88%				
4) Phenol-d5	6.358	99	6700399	45.64	ppm		-0.01
Spiked Amount 50.000			Recovery = 91.28%				
7) Nitrobenzene-d5	7.971	82	6516023	56.04	ppm		0.00
Spiked Amount 50.000			Recovery = 112.08%				
15) 2-Fluorobiphenyl	11.553	172	12168361	48.03	ppm		0.00
Spiked Amount 50.000			Recovery = 96.06%				
20) 2,4,6-Tribromophenol	14.441	330	1413154	58.89	ppm		0.00
Spiked Amount 50.000			Recovery = 117.78%				
28) Terphenyl-d14	18.882	244	9783853	51.97	ppm		0.00
Spiked Amount 50.000			Recovery = 103.94%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.514	88	86501	2.39	ppm		75
5) Phenol	6.382	94	1899479	11.84	ppm	#	62
6) bis(2-Chloroethyl)ether	6.515	93	292148	2.42	ppm		92
8) Nitrobenzene	7.990	77	334492	2.60	ppm	#	49
9) Naphthalene	9.383	128	845708	2.44	ppm		95
10) Hexachlorobutadiene	9.684	225	123120	2.34	ppm		73
11) 2-Methylnaphthalene	10.763	141	434460	2.43	ppm		77
12) 1-Methylnaphthalene	10.948	141	511871	2.45	ppm		76
13) Hexachlorocyclopentadiene	11.112	237	204078	5.76	ppm	#	74
16) Acenaphthylene	12.542	152	819251	2.72	ppm		92
17) Acenaphthene	12.898	153	524887	2.61	ppm		87
18) 4,6-dinitro-2-methylph...	14.083	198	218107	20.39	ppm	#	1
19) Fluorene	13.932	166	541721	2.36	ppm		81
22) Hexachlorobenzene	15.065	284	158520	2.46	ppm		92
23) Pentachlorophenol	15.467	266	350600	16.78	ppm		93
24) Phenanthrene	15.853	178	810149	2.44	ppm		97
25) Anthracene	15.962	178	783808	2.63	ppm		91
26) Fluoranthene	18.110	202	873928	2.33	ppm		97
27) Pyrene	18.496	202	872904	2.47	ppm		96
29) Benzo[a]anthracene	20.582	228	627701	2.35	ppm		95
30) Chrysene	20.644	228	741917	2.38	ppm		98
32) Benzo[b]fluoranthene	22.245	252	639587	2.12	ppm		87
33) Benzo[k]fluoranthene	22.283	252	718322	2.24	ppm		87
34) Benzo[a]pyrene	22.697	252	617603	2.11	ppm		93
35) Indeno[1,2,3-cd]pyrene	24.277	276	607573	2.35	ppm		92
36) Dibenz[a,h]anthracene	24.314	278	481114	2.31	ppm		91
37) Benzo[g,h,i]perylene	24.672	276	544846	2.28	ppm		100

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration

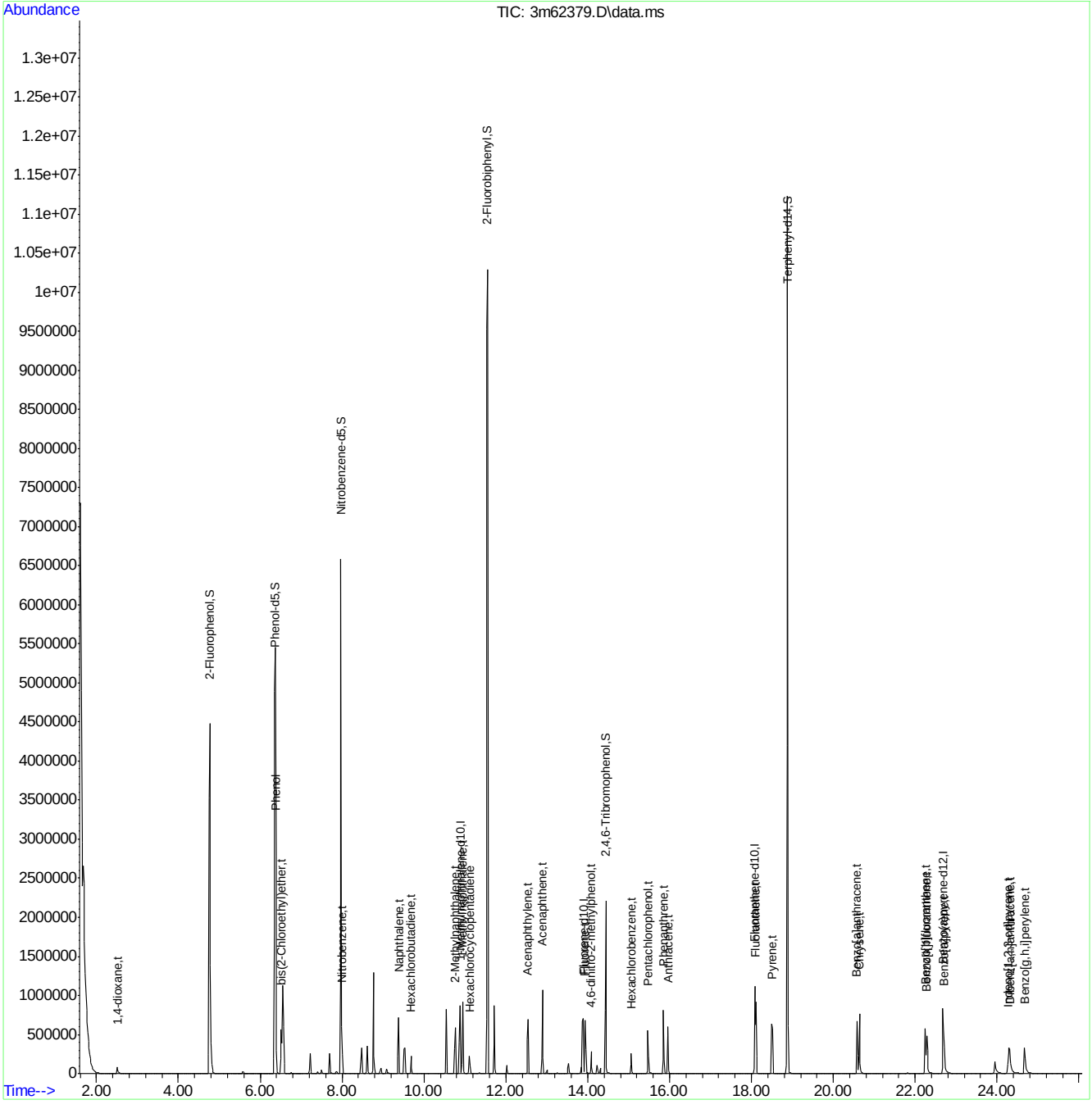
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jun 21 08:22:44 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62380.D
Acq On : 20 Jun 2016 11:50 pm
Operator : ashleyd
Sample : ic2942-0.05
Misc : op94419a,e3m2942
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:23:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:42:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	594761	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	828012	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1294659	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	879559	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	90272	0.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.92%	
4) Phenol-d5	6.357	99	141589	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
7) Nitrobenzene-d5	7.971	82	114319	0.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.88%	
15) 2-Fluorobiphenyl	11.537	172	244695	0.96	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.92%	
20) 2,4,6-Tribromophenol	14.422	330	13226	0.53	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.06%	
28) Terphenyl-d14	18.867	244	151453	0.78	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	2001	0.05	ppm	85
5) Phenol	6.370	94	38837	0.24	ppm #	87
6) bis(2-Chloroethyl)ether	6.515	93	5740	0.05	ppm	94
8) Nitrobenzene	7.989	77	6320	0.05	ppm #	51
9) Naphthalene	9.383	128	16694	0.05	ppm	95
10) Hexachlorobutadiene	9.684	225	2525	0.05	ppm	72
11) 2-Methylnaphthalene	10.763	141	9457	0.05	ppm	77
12) 1-Methylnaphthalene	10.948	141	10223	0.05	ppm	78
13) Hexachlorocyclopentadiene	11.112	237	2384	0.06	ppm	78
16) Acenaphthylene	12.542	152	12787	0.04	ppm	92
17) Acenaphthene	12.898	153	8657	0.04	ppm	89
18) 4,6-dinitro-2-methylph...	14.102	198	947	0.08	ppm	73
19) Fluorene	13.932	166	9971	0.04	ppm	85
22) Hexachlorobenzene	15.065	284	3106	0.05	ppm	92
23) Pentachlorophenol	15.482	266	2494	0.11	ppm	93
24) Phenanthrene	15.853	178	13421	0.04	ppm	97
25) Anthracene	15.962	178	10109	0.03	ppm	91
26) Fluoranthene	18.110	202	19378	0.05	ppm	97
27) Pyrene	18.496	202	13995	0.04	ppm	96
29) Benzo[a]anthracene	20.582	228	6970	0.03	ppm	97
30) Chrysene	20.644	228	13746	0.04	ppm	96
34) Benzo[a]pyrene	22.697	252	18256	0.07	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	4614	0.02	ppm	98
36) Dibenz[a,h]anthracene	24.295	278	3158	0.02	ppm	75
37) Benzo[g,h,i]perylene	24.672	276	5641	0.03	ppm	97

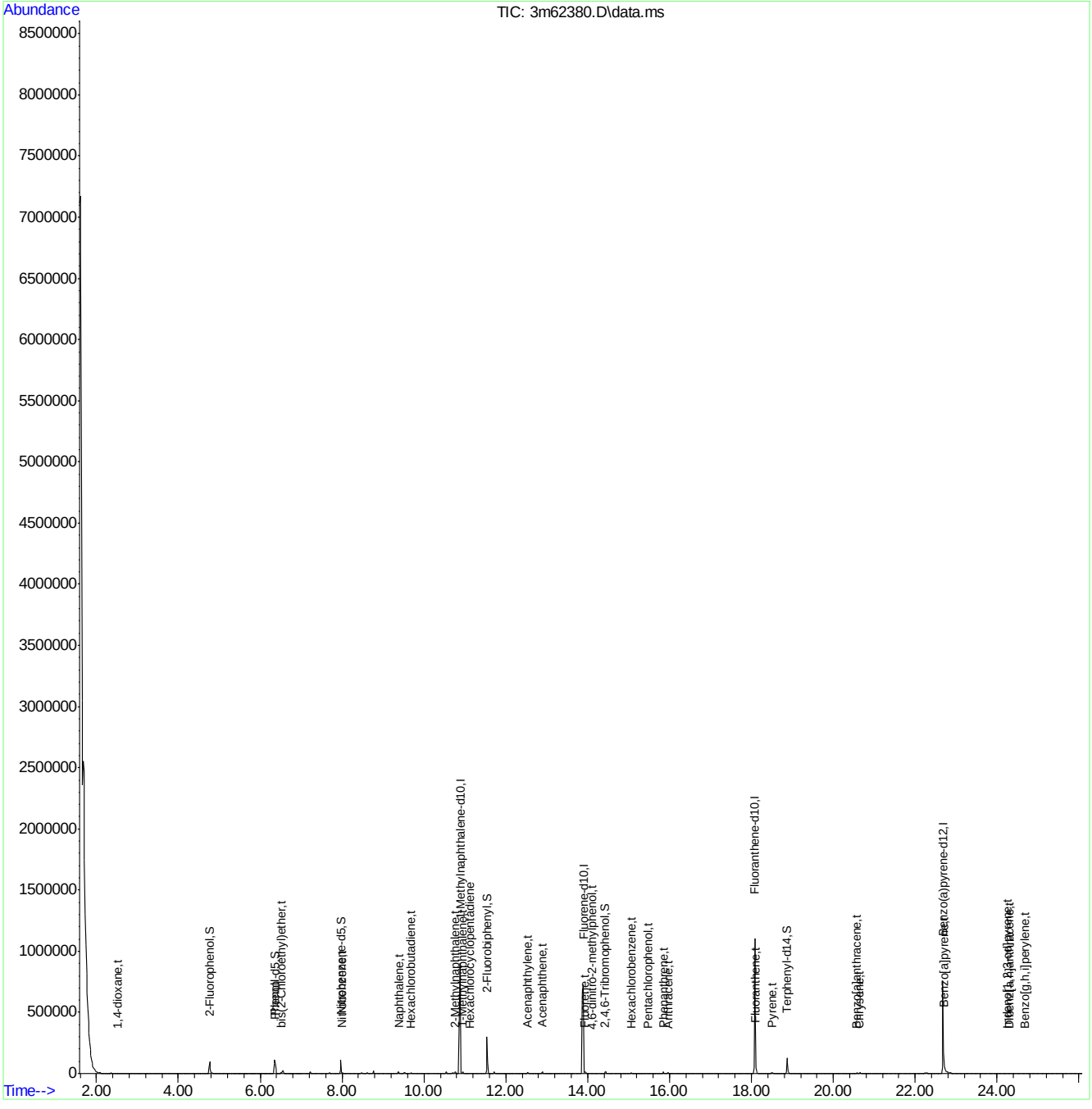
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62380.D
Acq On : 20 Jun 2016 11:50 pm
Operator : ashleyd
Sample : ic2942-0.05
Misc : op94419a,e3m2942
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:23:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:42:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62382.D
Acq On : 21 Jun 2016 12:56 am
Operator : ashleyd
Sample : icv2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 21 08:37:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	579092	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	694080	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1041559	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	654058	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
5) Phenol	6.369	94	676200	4.28	ppm	92
18) 4,6-dinitro-2-methylph...	14.083	198	44531	4.45	ppm #	8
23) Pentachlorophenol	15.467	266	84804	4.22	ppm	90

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

7.6.25

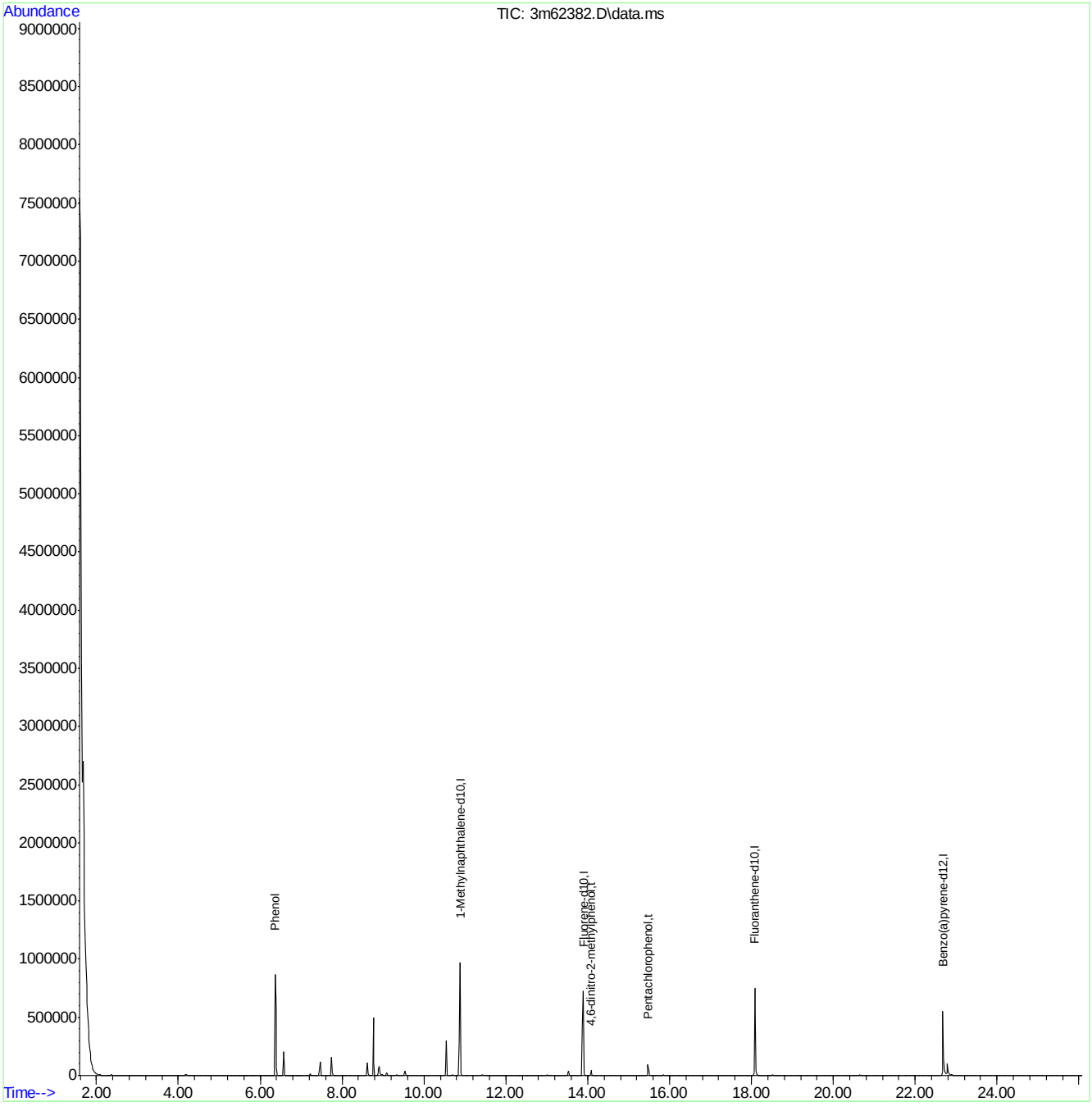
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62382.D
Acq On : 21 Jun 2016 12:56 am
Operator : ashleyd
Sample : icv2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 21 08:37:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jun 21 08:37:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62384.D
Acq On : 21 Jun 2016 9:26 am
Operator : linseyk
Sample : icv2942-1
Misc : op94419a,e3m2943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:04:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.866	150	708145	4.00 ppm	-0.02
14) Fluorene-d10	13.876	176	870402	4.00 ppm	-0.02
21) Fluoranthene-d10	18.079	212	1218863	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.659	264	858647	4.00 ppm	-0.02
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	0	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	2.514	88	45984	1.05 ppm	# 65
6) bis(2-Chloroethyl)ether	6.503	93	148876	1.02 ppm	96
8) Nitrobenzene	7.989	77	133582	0.85 ppm	85
9) Naphthalene	9.364	128	430549	1.03 ppm	99
10) Hexachlorobutadiene	9.684	225	58543	0.92 ppm	99
11) 2-Methylnaphthalene	10.743	141	232262	1.06 ppm	97
16) Acenaphthylene	12.527	152	373409	1.15 ppm	95
17) Acenaphthene	12.882	153	246586	1.17 ppm	79
19) Fluorene	13.932	166	260779	1.09 ppm	94
22) Hexachlorobenzene	15.049	284	72681	1.18 ppm	82
24) Phenanthrene	15.838	178	360070	1.16 ppm	93
25) Anthracene	15.946	178	328477	1.13 ppm	94
26) Fluoranthene	18.094	202	379785	1.05 ppm	92
27) Pyrene	18.496	202	395836	1.20 ppm	95
29) Benzo[a]anthracene	20.582	228	323807	1.30 ppm	94
30) Chrysene	20.628	228	315503	1.08 ppm	89
32) Benzo[b]fluoranthene	22.245	252	300702	1.11 ppm	97
33) Benzo[k]fluoranthene	22.283	252	299492	1.03 ppm	97
34) Benzo[a]pyrene	22.697	252	300625	1.05 ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	298235	1.26 ppm	95
36) Dibenz[a,h]anthracene	24.296	278	233523	1.23 ppm	81
37) Benzo[g,h,i]perylene	24.672	276	261582	1.20 ppm	98

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

7.6.26

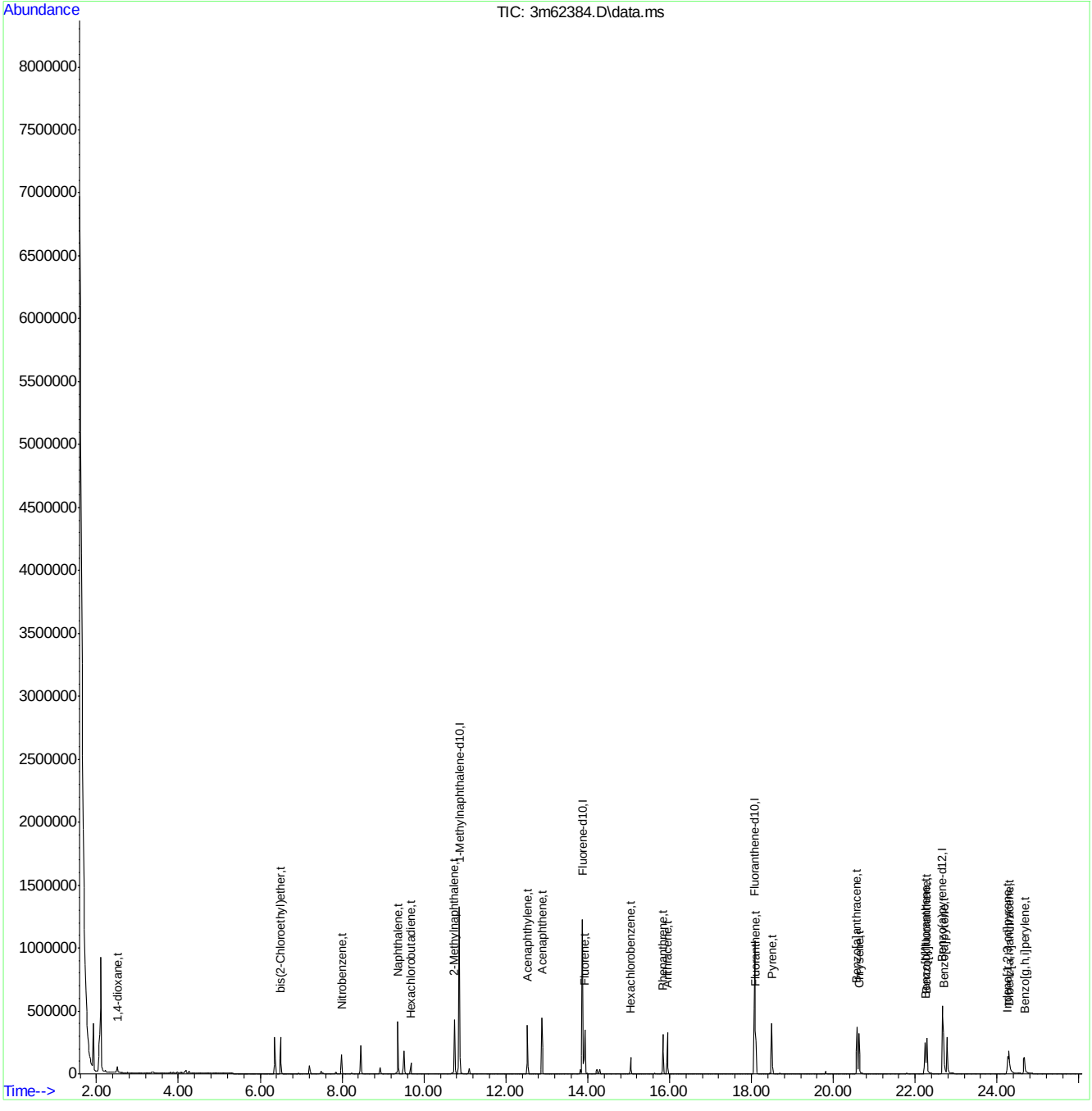
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62384.D
Acq On : 21 Jun 2016 9:26 am
Operator : linseyk
Sample : icv2942-1
Misc : op94419a,e3m2943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:04:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62582.D
Acq On : 28 Jun 2016 11:50 am
Operator : linseyk
Sample : cc2942-.5
Misc : op95046a,e3m2954
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 15:26:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 28 15:26:36 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.722	150	468087	4.00 ppm	-0.14
14) Fluorene-d10	13.725	176	673240	4.00 ppm	-0.17
21) Fluoranthene-d10	17.924	212	1024985	4.00 ppm	-0.03
31) Benzo(a)pyrene-d12	22.527	264	792752	4.00 ppm	-0.02
System Monitoring Compounds					
3) 2-Fluorophenol	4.678	112	655430	8.94 ppm	-0.08
Spiked Amount 50.000			Recovery	= 17.88%	
4) Phenol-d5	6.285	99	1035138	8.92 ppm	-0.06
Spiked Amount 50.000			Recovery	= 17.84%	
7) Nitrobenzene-d5	7.801	82	822774	8.67 ppm	-0.15
Spiked Amount 50.000			Recovery	= 17.34%	
15) 2-Fluorobiphenyl	11.379	172	1871085	9.08 ppm	-0.16
Spiked Amount 50.000			Recovery	= 18.16%	
20) 2,4,6-Tribromophenol	14.271	330	216656	9.96 ppm	-0.15
Spiked Amount 50.000			Recovery	= 19.92%	
28) Terphenyl-d14	18.728	244	1457236	9.44 ppm	0.00
Spiked Amount 50.000			Recovery	= 18.88%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.391	88	13504	0.47 ppm	# 45
5) Phenol	6.309	94	279625	2.19 ppm	# 55
6) bis(2-Chloroethyl)ether	6.370	93	42072	0.44 ppm	91
8) Nitrobenzene	7.839	77	48114	0.46 ppm	# 63
9) Naphthalene	9.213	128	128902	0.46 ppm	100
10) Hexachlorobutadiene	9.515	225	17393	0.42 ppm	# 63
11) 2-Methylnaphthalene	10.599	141	62889	0.44 ppm	78
12) 1-Methylnaphthalene	10.784	141	77077	0.46 ppm	74
13) Hexachlorocyclopentadiene	10.948	237	26410	0.90 ppm	84
16) Acenaphthylene	12.372	152	118549	0.47 ppm	95
17) Acenaphthene	12.728	153	76907	0.47 ppm	84
18) 4,6-dinitro-2-methylph...	13.932	198	28534	3.28 ppm	# 50
19) Fluorene	13.762	166	81150	0.44 ppm	77
22) Hexachlorobenzene	14.895	284	24976	0.48 ppm	90
23) Pentachlorophenol	15.328	266	24886	1.51 ppm	94
24) Phenanthrene	15.683	178	123234	0.47 ppm	97
25) Anthracene	15.792	178	111938	0.46 ppm	92
26) Fluoranthene	17.955	202	134863	0.45 ppm	99
27) Pyrene	18.342	202	131202	0.47 ppm	99
29) Benzo[a]anthracene	20.427	228	111338	0.52 ppm	94
30) Chrysene	20.489	228	116281	0.47 ppm	95
32) Benzo[b]fluoranthene	22.095	252	121349	0.48 ppm	95
33) Benzo[k]fluoranthene	22.132	252	109021	0.41 ppm	91
34) Benzo[a]pyrene	22.546	252	111884	0.42 ppm	96
35) Indeno[1,2,3-cd]pyrene	24.070	276	113234	0.52 ppm	99
36) Dibenz[a,h]anthracene	24.107	278	90686	0.52 ppm	94
37) Benzo[g,h,i]perylene	24.465	276	98399	0.49 ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62582.D
Acq On : 28 Jun 2016 11:50 am
Operator : linseyk
Sample : cc2942-.5
Misc : op95046a,e3m2954
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 15:26:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 28 15:26:36 2016
Response via : Initial Calibration

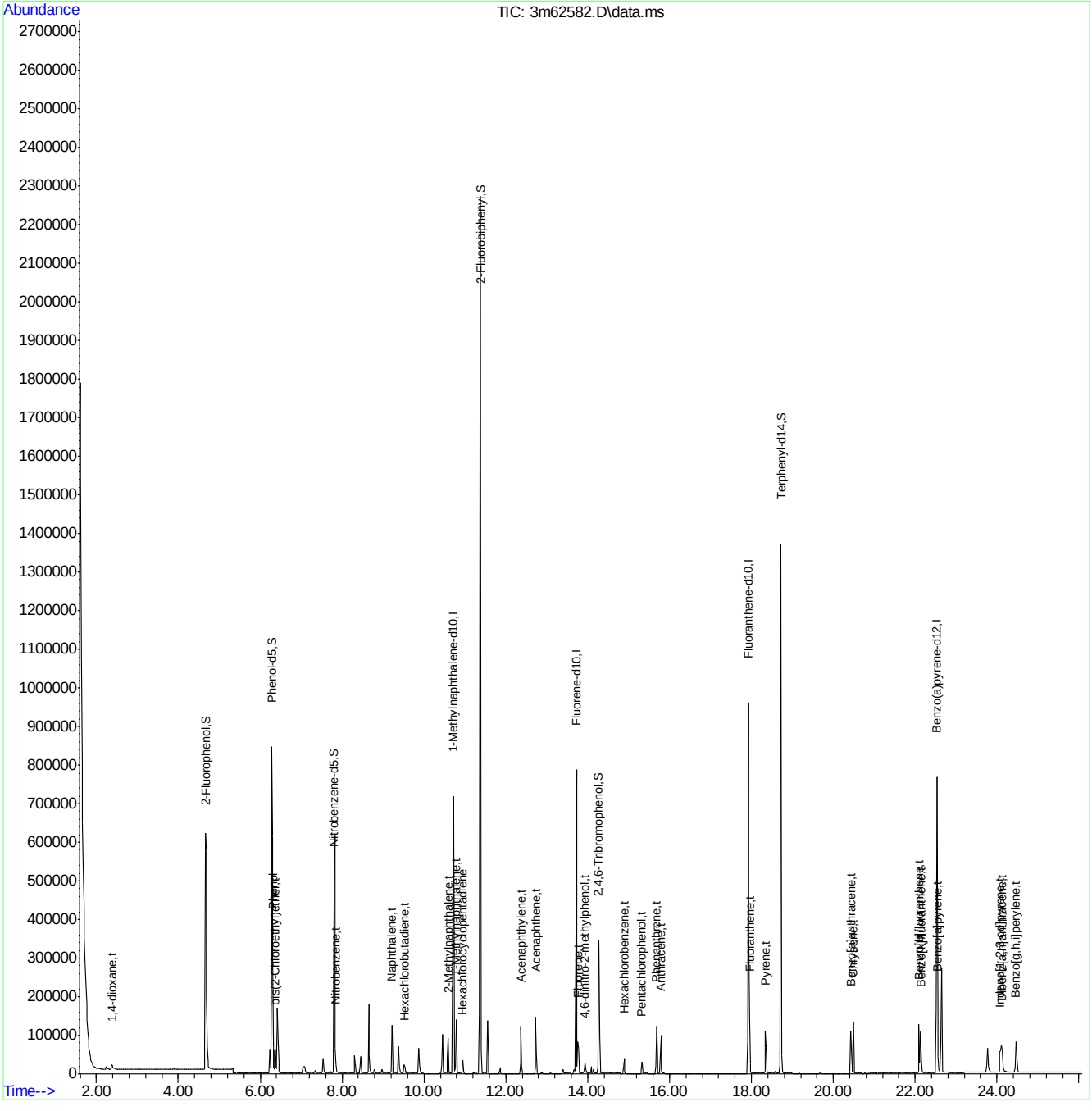
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2954\
Data File : 3m62582.D
Acq On : 28 Jun 2016 11:50 am
Operator : linseyk
Sample : cc2942-.5
Misc : op95046a,e3m2954
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 15:26:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 28 15:26:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/21/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	64579	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	115877	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	170187	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	145082	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	64579	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	115877	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	19610	1.89	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	3.78%#	
3) Phenol-d5	5.497	99	30862	1.85	ppm	0.01
Spiked Amount 50.000			Recovery	=	3.70%	
6) Nitrobenzene-d5	6.968	82	26982	1.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.74%	
11) 2-Fluorobiphenyl	10.430	172	47220	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
17) 2,4,6-Tribromophenol	13.313	330	9392	1.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.12%	
25) Terphenyl-d14	17.749	244	48941	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
Target Compounds						Qvalue
4) Phenol	5.511	94	8289	0.47	ppm	72
5) bis(2-Chloroethyl)ether	5.607	93	1248	0.09	ppm #	54
7) Naphthalene	8.314	128	4103	0.09	ppm	99
8) Hexachlorobutadiene	8.593	225	702	0.09	ppm	97
9) 2-Methylnaphthalene	9.667	142	2236	0.11	ppm	92
10) Hexachlorocyclopentadiene	10.001	237	37m	0.03	ppm	
13) Acenaphthylene	11.431	152	2799	0.08	ppm	87
14) Acenaphthene	11.764	153	1693	0.08	ppm	94
15) Dibenzofuran	12.141	168	2790	0.09	ppm	100
16) Fluorene	12.812	166	3041	0.08	ppm	94
18) Hexachlorobenzene	13.907	284	1011	0.08	ppm	96
19) Pentachlorophenol	14.359	266	1692	0.35	ppm	83
20) Phenanthrene	14.717	178	4186	0.08	ppm	98
21) Anthracene	14.830	178	3932	0.08	ppm	97
23) Fluoranthene	16.977	202	4774	0.09	ppm	99
24) Pyrene	17.372	202	4693	0.09	ppm	97
26) Benzo[a]anthracene	19.462	228	4467	0.10	ppm	95
27) Chrysene	19.518	228	4796	0.11	ppm	96
29) Benzo[b]fluoranthene	21.120	252	4753	0.09	ppm	95
30) Benzo[k]fluoranthene	21.162	252	5024	0.10	ppm	97
31) Benzo[a]pyrene	21.575	252	4913	0.10	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.130	276	5025	0.09	ppm	95
33) Dibenz[a,h]anthracene	23.158	278	4213	0.09	ppm	92
34) Benzo[g,h,i]perylene	23.530	276	4414	0.09	ppm	99
36) 1,4-Dioxane	2.288	88	693	0.15	ppm #	62
37) 1-Methylnaphthalene	9.858	142	1777	0.10	ppm #	66
39) 4,6-dinitro-2-methylph...	13.027	198	963	0.19	ppm	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	2501	0.07	ppm	96
41) n-nitrosodiphenylamine	13.122	169	1855	0.07	ppm	94

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

7.6.28

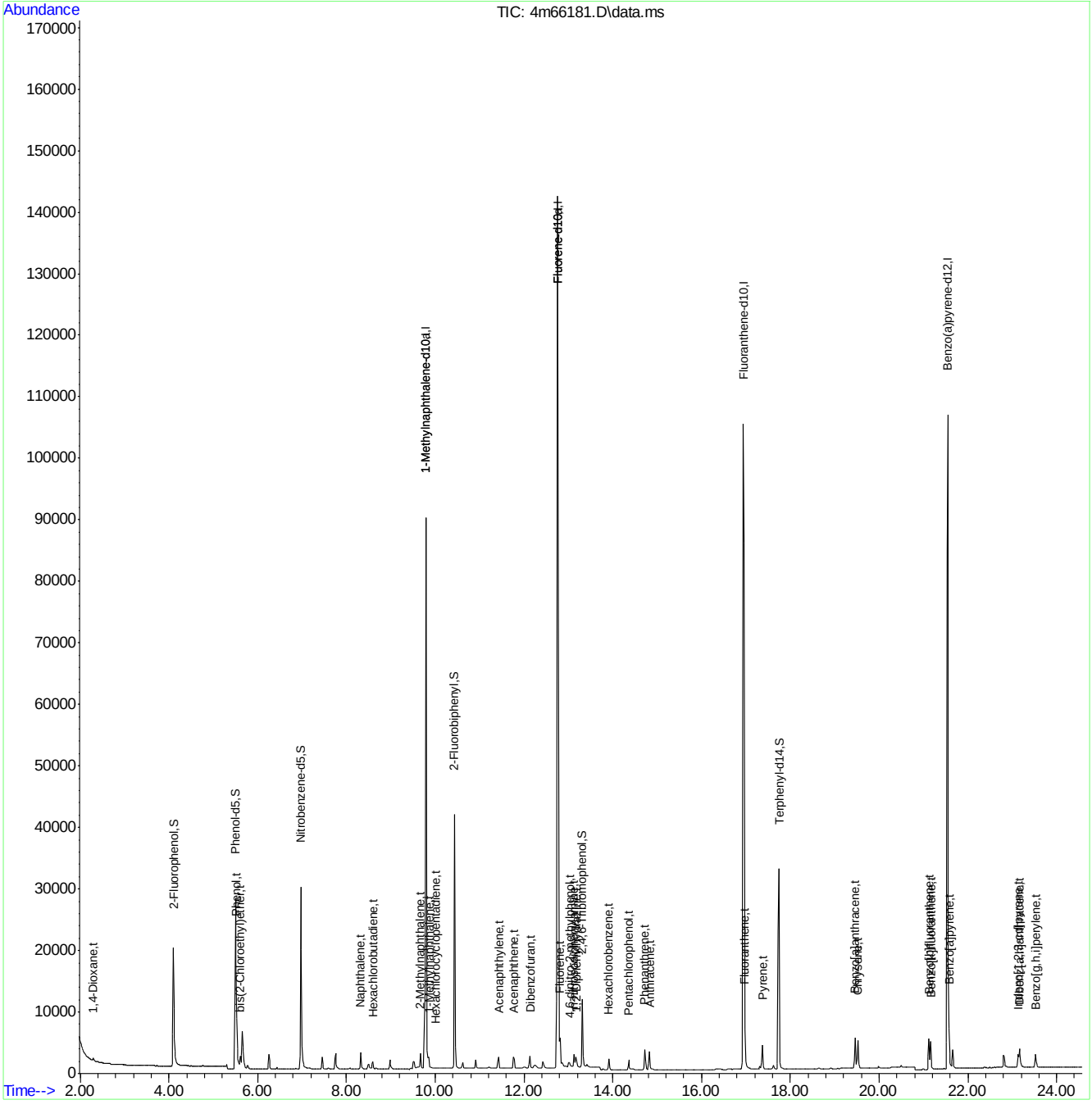
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Manual Integration Approval Summary

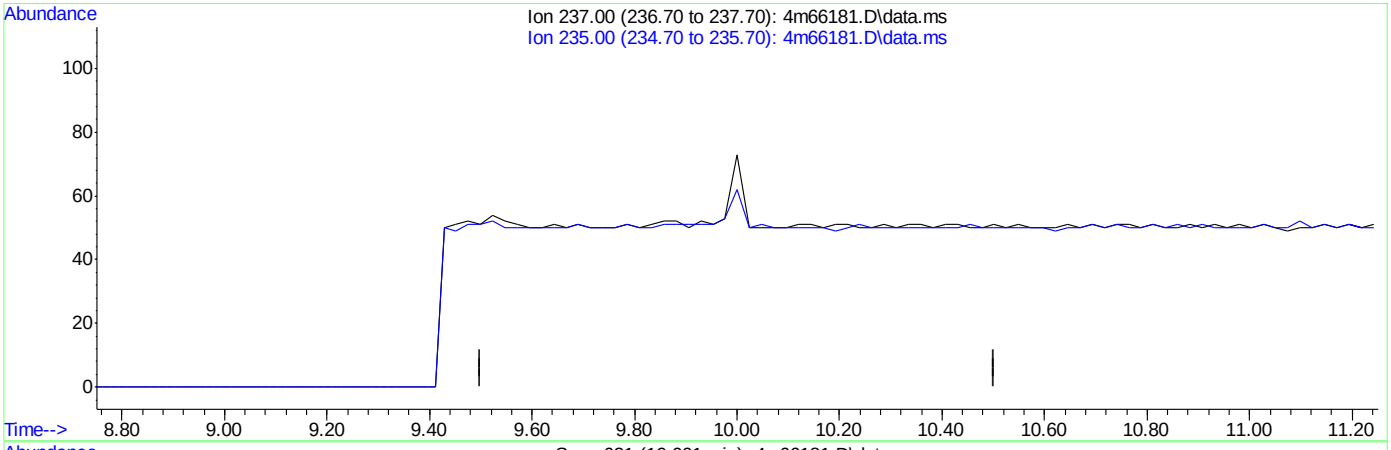
Sample Number:	E4M2974-IC2974	**Method:**	EPA 625 BY SIM
Lab FileID:	4M66181.D	**Analyst approved:**	06/21/16 08:32 Linsey Kirschmann
Injection Time:	06/20/16 23:01	**Supervisor approved:**	06/21/16 13:33 Nina Pandya

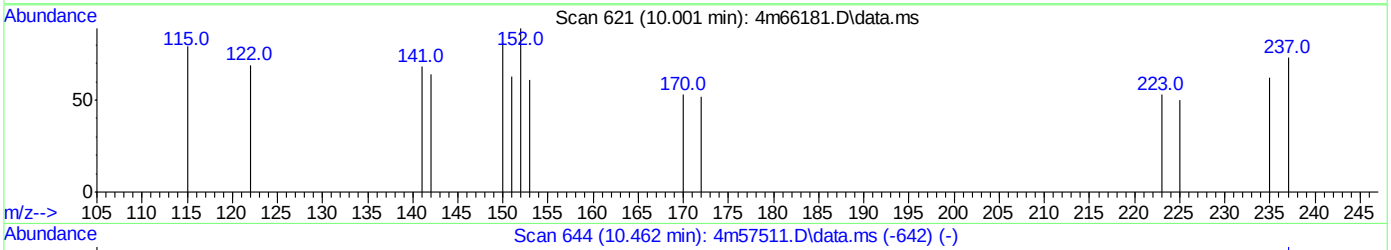
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorocyclopentadiene	77-47-4		10.00	Poor instrument integration

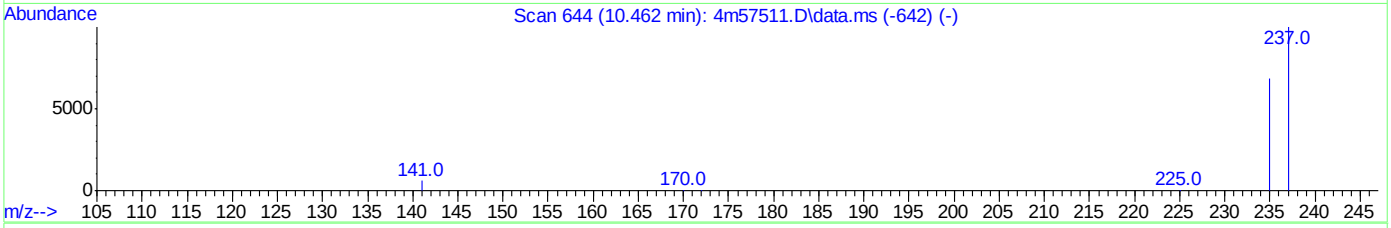
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:53:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66181.D\data.ms

(10) Hexachlorocyclopentadiene (t)

10.001min (-10.001) 0.00ppm

response 0

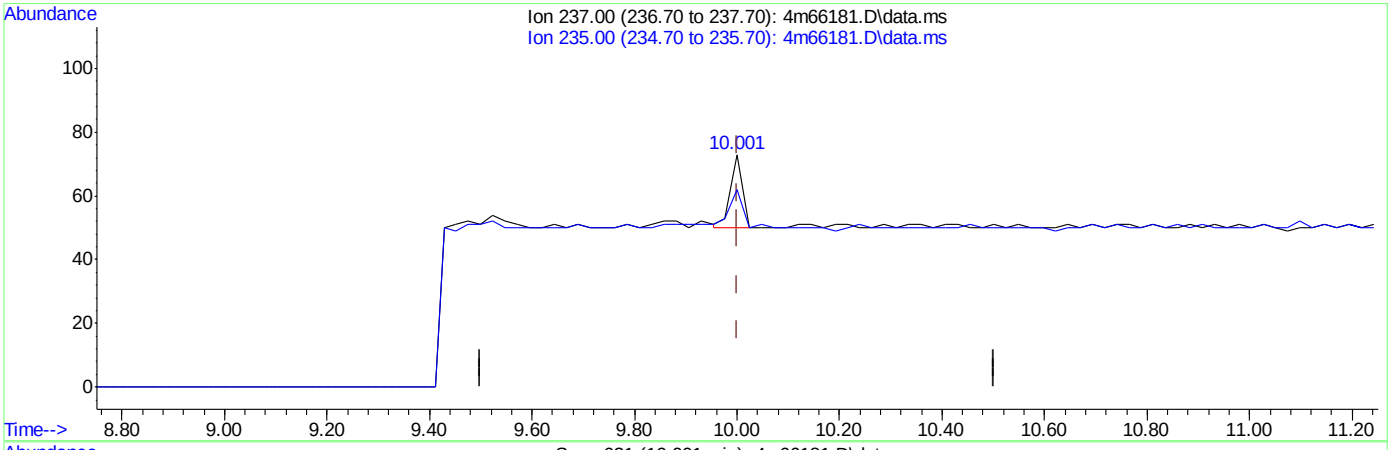
Ion	Exp%	Act%
237.00	100	0.00
235.00	45.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

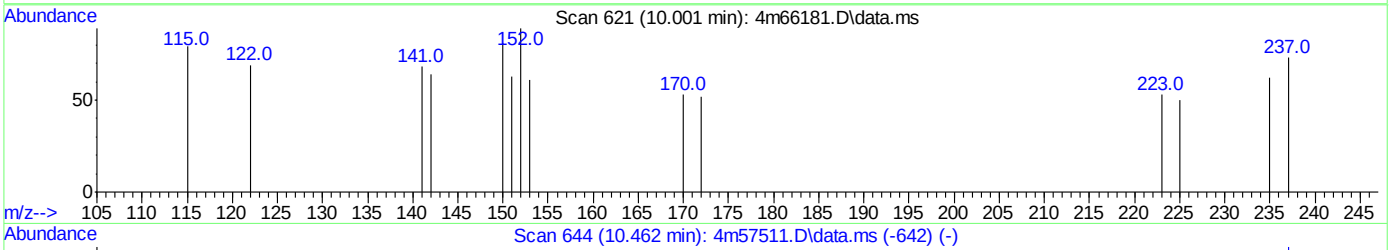
SGS ACCUTEST JC22206

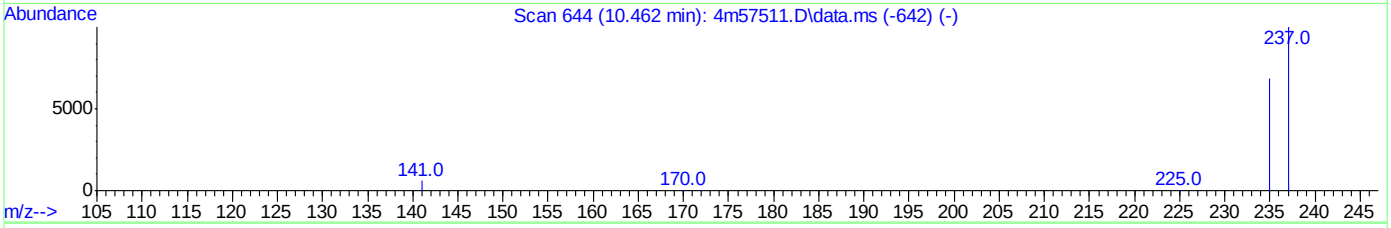
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:53:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66181.D\data.ms

(10) Hexachlorocyclopentadiene (t)

10.001min (-0.000) 0.03ppm m

response 37

Ion	Exp%	Act%
237.00	100	100
235.00	45.30	84.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	61294	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	113007	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	178558	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	149298	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	61294	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	113007	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	42611	4.34	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	8.68%#	
3) Phenol-d5	5.497	99	68267	4.32	ppm	0.01
Spiked Amount 50.000			Recovery	=	8.64%	
6) Nitrobenzene-d5	6.968	82	60266	4.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.78%	
11) 2-Fluorobiphenyl	10.431	172	110649	4.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.92%	
17) 2,4,6-Tribromophenol	13.313	330	21661	3.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.36%	
25) Terphenyl-d14	17.749	244	108442	3.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.66%	
Target Compounds						Qvalue
4) Phenol	5.511	94	18355	1.10	ppm	69
5) bis(2-Chloroethyl)ether	5.607	93	2632	0.20	ppm	81
7) Naphthalene	8.314	128	9200	0.21	ppm	99
8) Hexachlorobutadiene	8.593	225	1576	0.22	ppm	99
9) 2-Methylnaphthalene	9.667	142	4875	0.26	ppm	96
10) Hexachlorocyclopentadiene	10.001	237	160	0.13	ppm	95
13) Acenaphthylene	11.431	152	6261	0.19	ppm	85
14) Acenaphthene	11.764	153	3936	0.19	ppm	97
15) Dibenzofuran	12.141	168	7463	0.24	ppm	100
16) Fluorene	12.812	166	7007	0.19	ppm	98
18) Hexachlorobenzene	13.908	284	2301	0.20	ppm	98
19) Pentachlorophenol	14.360	266	3979	0.84	ppm	81
20) Phenanthrene	14.717	178	9557	0.19	ppm	99
21) Anthracene	14.830	178	8392	0.18	ppm	99
23) Fluoranthene	16.977	202	10535	0.19	ppm	99
24) Pyrene	17.372	202	10107	0.18	ppm	98
26) Benzo[a]anthracene	19.462	228	8951	0.19	ppm	98
27) Chrysene	19.518	228	9210	0.19	ppm	97
29) Benzo[b]fluoranthene	21.120	252	10031	0.18	ppm	98
30) Benzo[k]fluoranthene	21.162	252	10126	0.19	ppm	99
31) Benzo[a]pyrene	21.575	252	9644	0.19	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.131	276	11253	0.19	ppm	91
33) Dibenz[a,h]anthracene	23.158	278	9253	0.19	ppm	94
34) Benzo[g,h,i]perylene	23.516	276	9715	0.19	ppm	100
36) 1,4-Dioxane	2.289	88	1167	0.26	ppm #	76
37) 1-Methylnaphthalene	9.858	142	3686	0.21	ppm #	62
39) 4,6-dinitro-2-methylph...	13.027	198	3021	0.63	ppm	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	6335	0.18 ppm	99
41) n-nitrosodiphenylamine	13.122	169	4376	0.17 ppm	97

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

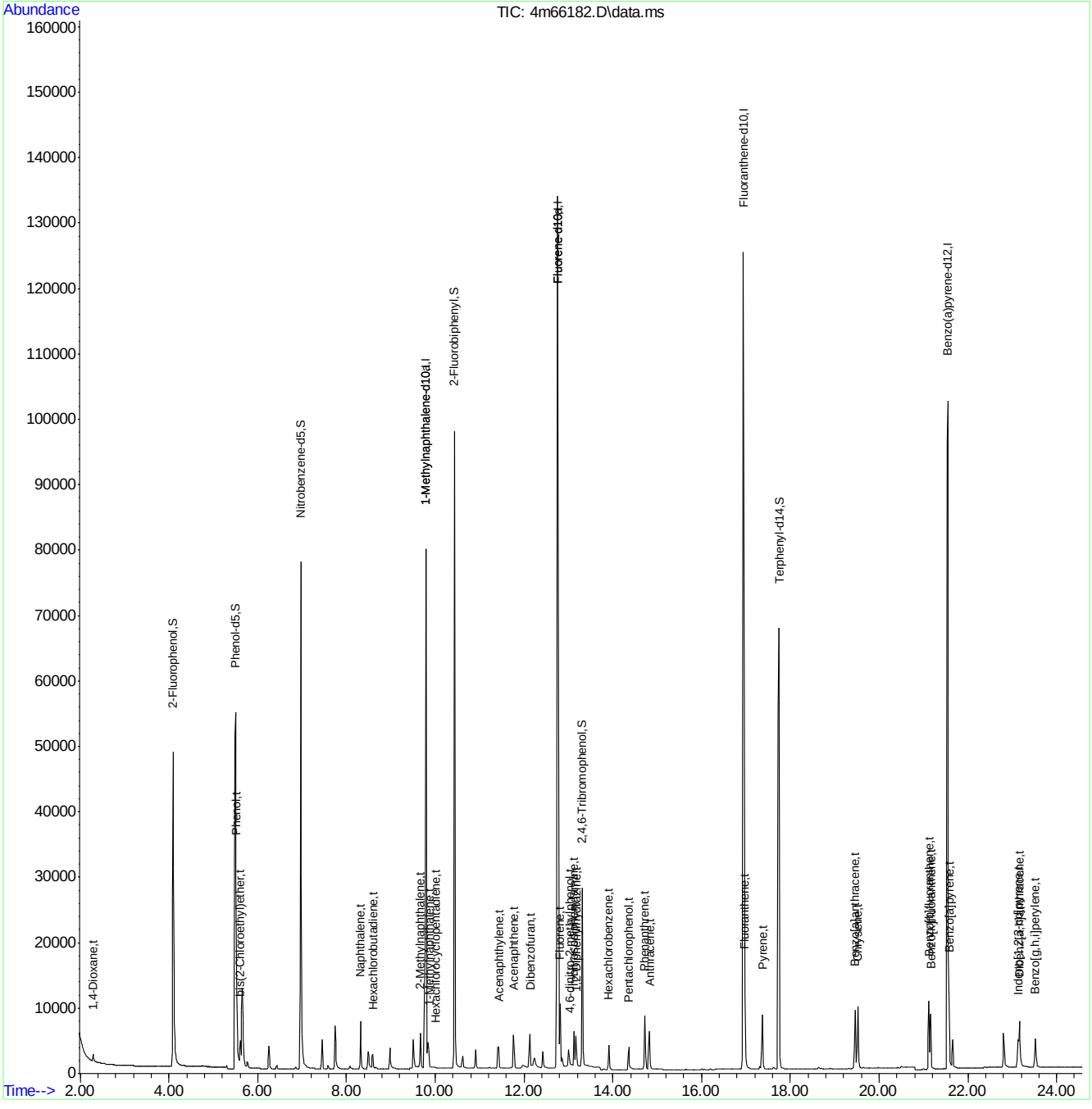
7.6.29

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	48821	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	79987	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	121543	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	101873	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	48821	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	79987	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	81796	10.45	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.90%			
3) Phenol-d5	5.483	99	130374	10.36	ppm	0.00
Spiked Amount 50.000			Recovery = 20.72%			
6) Nitrobenzene-d5	6.968	82	112634	10.31	ppm	0.00
Spiked Amount 50.000			Recovery = 20.62%			
11) 2-Fluorobiphenyl	10.431	172	209046	10.59	ppm	0.00
Spiked Amount 50.000			Recovery = 21.18%			
17) 2,4,6-Tribromophenol	13.313	330	42279	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
25) Terphenyl-d14	17.749	244	199233	10.33	ppm	0.00
Spiked Amount 50.000			Recovery = 20.66%			
Target Compounds						Qvalue
4) Phenol	5.511	94	34378	2.58	ppm	88
5) bis(2-Chloroethyl)ether	5.607	93	4985	0.47	ppm	78
7) Naphthalene	8.314	128	17593	0.51	ppm	100
8) Hexachlorobutadiene	8.593	225	2951	0.51	ppm	99
9) 2-Methylnaphthalene	9.667	142	8048	0.54	ppm	97
10) Hexachlorocyclopentadiene	10.001	237	599	0.59	ppm	97
13) Acenaphthylene	11.431	152	11956	0.51	ppm	85
14) Acenaphthene	11.764	153	7448	0.50	ppm	97
15) Dibenzofuran	12.141	168	11632	0.53	ppm	100
16) Fluorene	12.812	166	13592	0.51	ppm	99
18) Hexachlorobenzene	13.908	284	4345	0.52	ppm	99
19) Pentachlorophenol	14.360	266	7373	2.21	ppm	78
20) Phenanthrene	14.717	178	18316	0.51	ppm	99
21) Anthracene	14.830	178	16332	0.50	ppm	99
23) Fluoranthene	16.977	202	19846	0.51	ppm	99
24) Pyrene	17.372	202	19391	0.51	ppm	99
26) Benzo[a]anthracene	19.462	228	16744	0.52	ppm	99
27) Chrysene	19.518	228	17050	0.53	ppm	99
29) Benzo[b]fluoranthene	21.120	252	18885	0.50	ppm	98
30) Benzo[k]fluoranthene	21.162	252	18893	0.53	ppm	99
31) Benzo[a]pyrene	21.575	252	16497	0.48	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.117	276	20627	0.51	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	17147	0.51	ppm	97
34) Benzo[g,h,i]perylene	23.516	276	17848	0.52	ppm	100
36) 1,4-Dioxane	2.288	88	1889	0.53	ppm	77
37) 1-Methylnaphthalene	9.858	142	7124	0.52	ppm #	63
39) 4,6-dinitro-2-methylph...	13.003	198	6273	1.84	ppm	64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	12389	0.49	ppm	99
41) n-nitrosodiphenylamine	13.122	169	8582	0.48	ppm	97

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

7.6.30

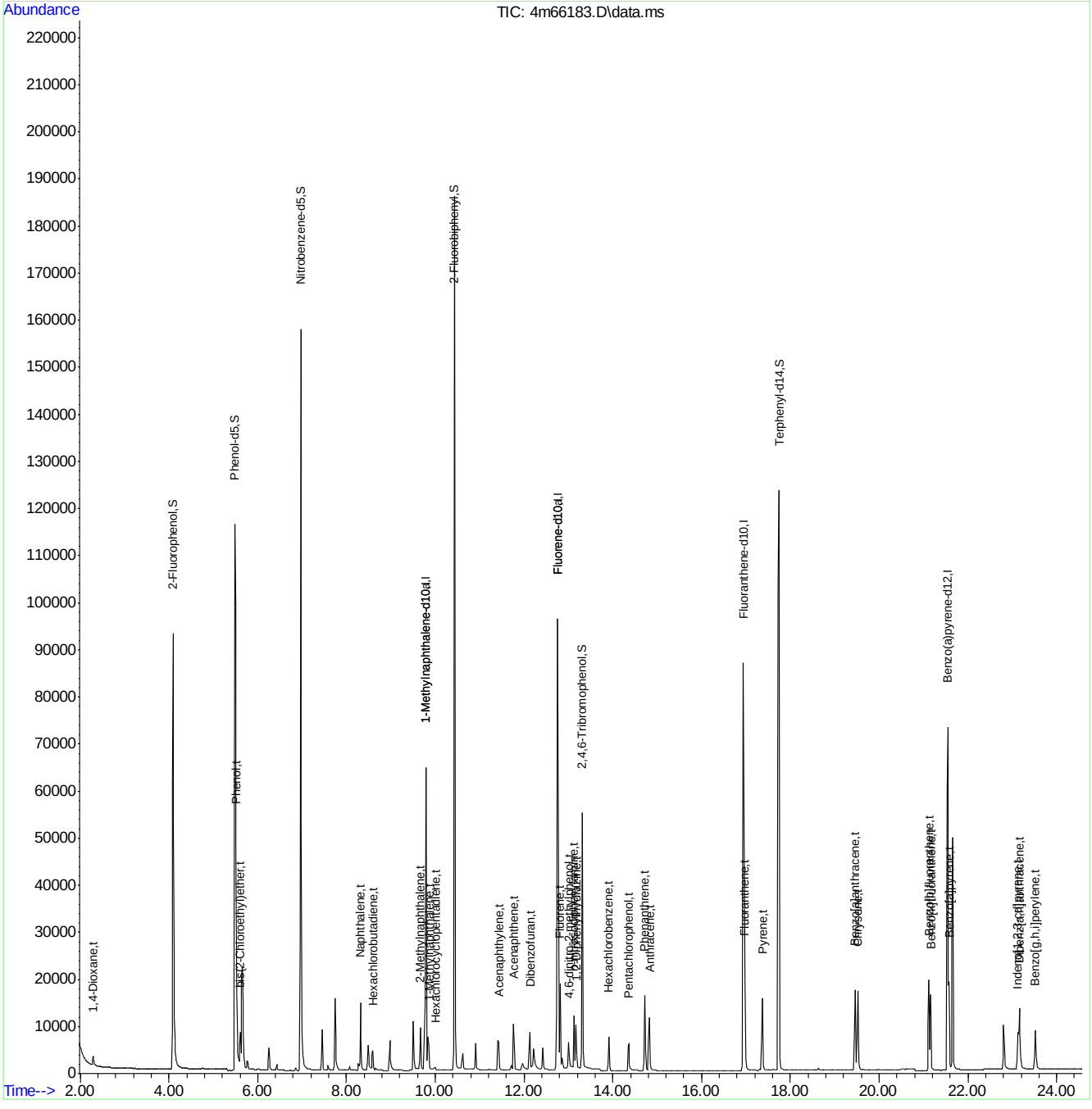
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 07:56:26 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	53805	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	88678	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	136758	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	111755	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	53805	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	88678	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	172656	20.02	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.04%			
3) Phenol-d5	5.484	99	277285	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
6) Nitrobenzene-d5	6.968	82	240778	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
11) 2-Fluorobiphenyl	10.431	172	435307	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
17) 2,4,6-Tribromophenol	13.313	330	92390	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
25) Terphenyl-d14	17.749	244	434082	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
4) Phenol	5.511	94	73488	5.00	ppm	100
5) bis(2-Chloroethyl)ether	5.607	93	10826	0.92	ppm	75
7) Naphthalene	8.314	128	38045	1.00	ppm	100
8) Hexachlorobutadiene	8.593	225	6342	1.00	ppm	100
9) 2-Methylnaphthalene	9.667	142	16441	1.00	ppm	100
10) Hexachlorocyclopentadiene	10.001	237	2232	2.00	ppm	100
13) Acenaphthylene	11.409	152	26195	1.00	ppm	100
14) Acenaphthene	11.764	153	16587	1.00	ppm	100
15) Dibenzofuran	12.141	168	24521	1.00	ppm	100
16) Fluorene	12.812	166	29604	1.00	ppm	100
18) Hexachlorobenzene	13.908	284	9238	1.00	ppm	100
19) Pentachlorophenol	14.341	266	18521	5.00	ppm	100
20) Phenanthrene	14.717	178	39729	1.00	ppm	100
21) Anthracene	14.830	178	35891	1.00	ppm	100
23) Fluoranthene	16.977	202	43518	1.00	ppm	100
24) Pyrene	17.372	202	42479	1.00	ppm	100
26) Benzo[a]anthracene	19.462	228	35948	1.00	ppm	99
27) Chrysene	19.519	228	36398	1.00	ppm	100
29) Benzo[b]fluoranthene	21.121	252	41480	1.01	ppm	99
30) Benzo[k]fluoranthene	21.162	252	39891	1.02	ppm	100
31) Benzo[a]pyrene	21.575	252	38047	1.02	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.117	276	44837	1.02	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	37256	1.02	ppm	100
34) Benzo[g,h,i]perylene	23.516	276	38720	1.02	ppm	100
36) 1,4-Dioxane	2.289	88	3599	0.92	ppm	82
37) 1-Methylnaphthalene	9.834	142	15146	1.00	ppm	100
39) 4,6-dinitro-2-methylph...	13.003	198	18936	5.00	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	28043	1.00	ppm	100
41) n-nitrosodiphenylamine	13.122	169	19967	1.00	ppm	100

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

7.6.31

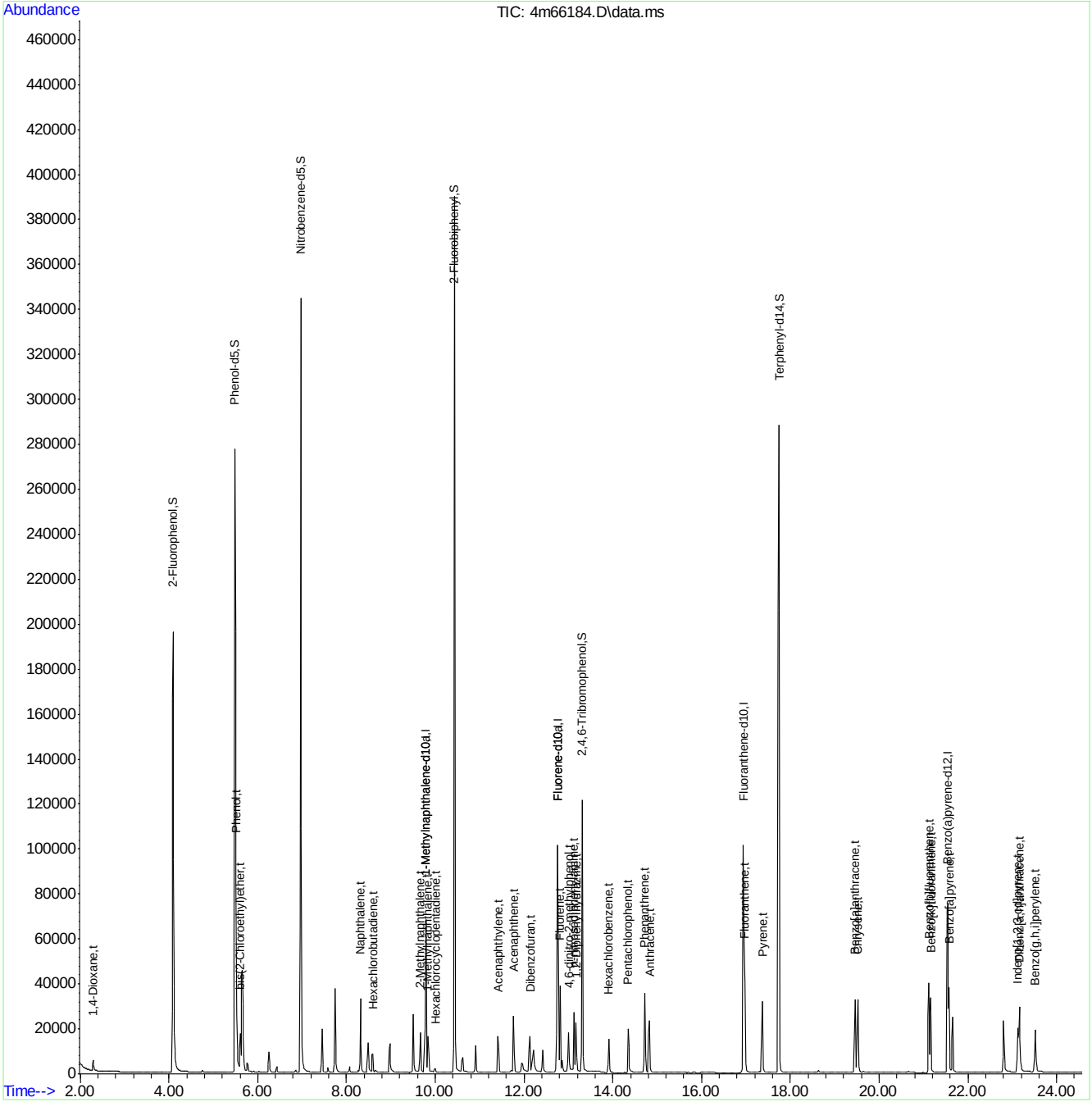
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	65123	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	120426	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	194489	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	160931	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	65123	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	120426	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	10664	1.02	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	2.04%#	
3) Phenol-d5	5.497	99	16574	0.99	ppm	0.01
Spiked Amount 50.000			Recovery	=	1.98%	
6) Nitrobenzene-d5	6.968	82	14948	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
11) 2-Fluorobiphenyl	10.431	172	26966	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
17) 2,4,6-Tribromophenol	13.313	330	4974	0.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.58%	
25) Terphenyl-d14	17.749	244	26084	0.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.70%	
Target Compounds						Qvalue
4) Phenol	5.511	94	4641	0.26	ppm	48
5) bis(2-Chloroethyl)ether	5.607	93	557	0.04	ppm #	53
7) Naphthalene	8.314	128	2263	0.05	ppm	99
8) Hexachlorobutadiene	8.593	225	403	0.05	ppm	98
9) 2-Methylnaphthalene	9.667	142	1475	0.07	ppm	95
13) Acenaphthylene	11.431	152	1507	0.04	ppm	87
14) Acenaphthene	11.764	153	965	0.04	ppm	98
15) Dibenzofuran	12.141	168	2323	0.07	ppm	100
16) Fluorene	12.812	166	1764	0.04	ppm	92
18) Hexachlorobenzene	13.908	284	573	0.05	ppm	98
19) Pentachlorophenol	14.360	266	938	0.19	ppm	86
20) Phenanthrene	14.717	178	2308	0.04	ppm	98
21) Anthracene	14.830	178	2199	0.05	ppm	97
23) Fluoranthene	16.977	202	2773	0.04	ppm	99
24) Pyrene	17.372	202	2482	0.04	ppm	98
26) Benzo[a]anthracene	19.462	228	2163	0.04	ppm	97
27) Chrysene	19.519	228	2438	0.05	ppm	96
29) Benzo[b]fluoranthene	21.121	252	2558	0.04	ppm	97
30) Benzo[k]fluoranthene	21.162	252	2707	0.05	ppm	98
31) Benzo[a]pyrene	21.575	252	2415m	0.04	ppm	
32) Indeno[1,2,3-cd]pyrene	23.131	276	2781	0.04	ppm	96
33) Dibenz[a,h]anthracene	23.158	278	2312	0.04	ppm	84
34) Benzo[g,h,i]perylene	23.530	276	2464	0.05	ppm	100
37) 1-Methylnaphthalene	9.858	142	987	0.05	ppm #	62
39) 4,6-dinitro-2-methylph...	13.027	198	615	0.12	ppm	93
40) 1,2-Diphenylhydrazine	13.170	77	1490	0.04	ppm	100
41) n-nitrosodiphenylamine	13.122	169	1042	0.04	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 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

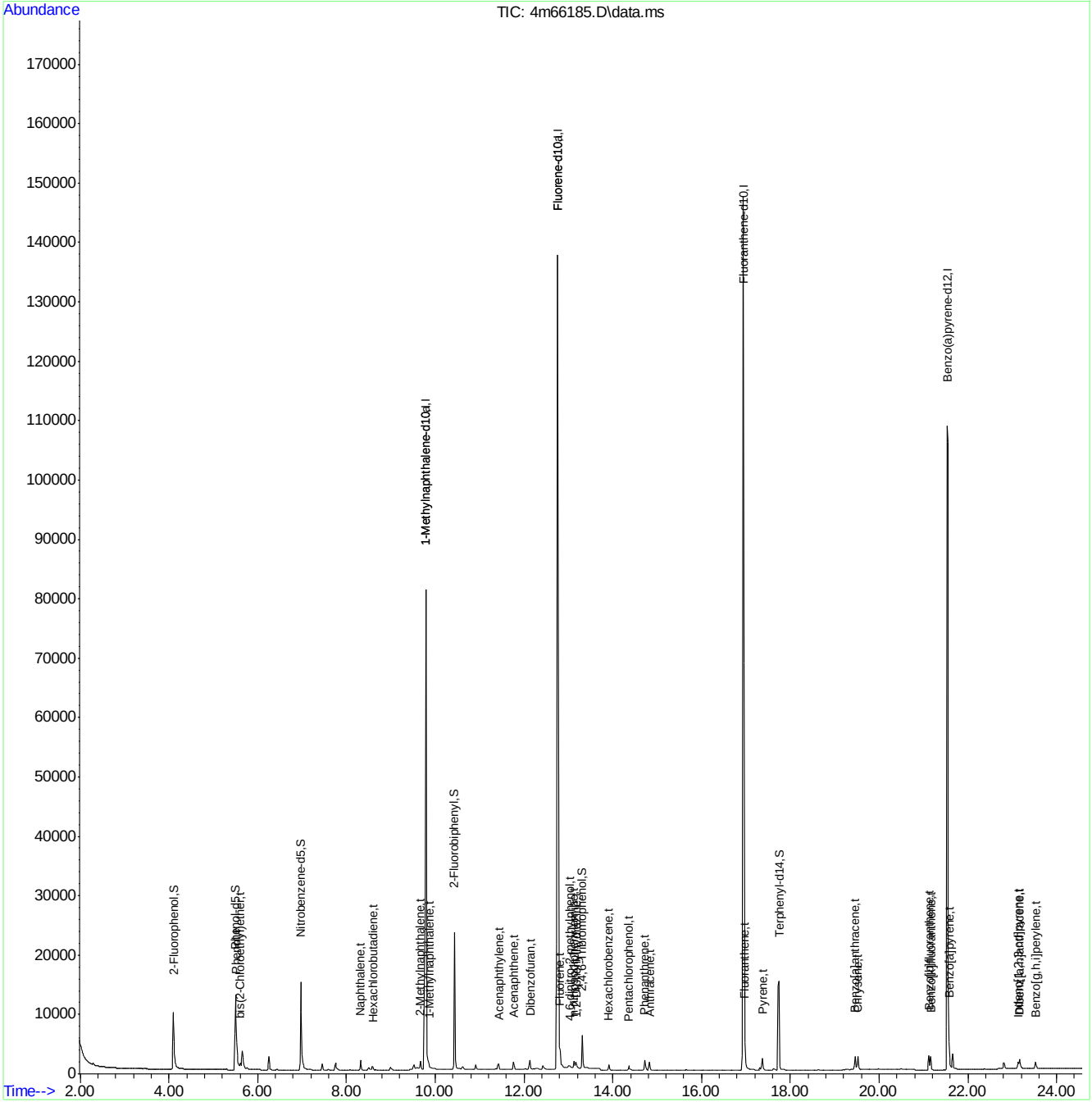
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

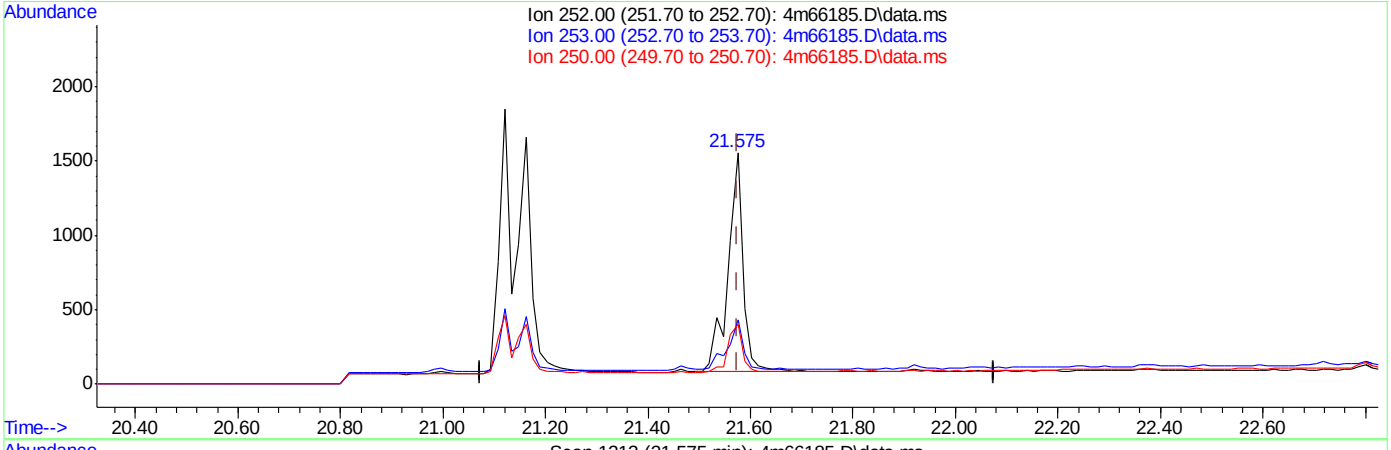
Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

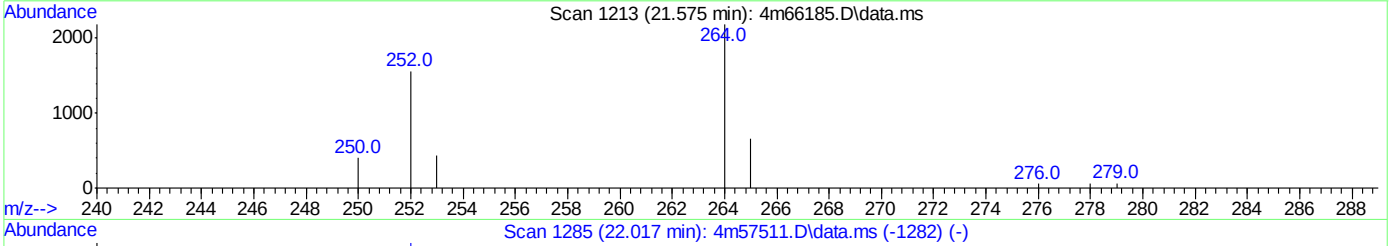


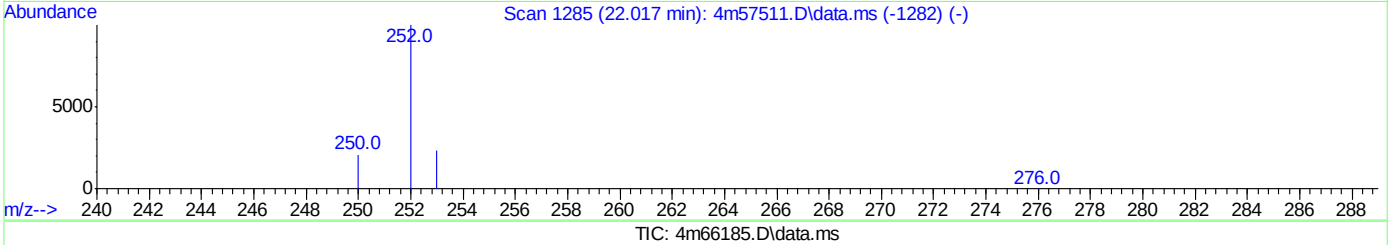
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:53:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66185.D\data.ms

(31) Benzo[a]pyrene (t)

21.575min (0.000) 0.06ppm

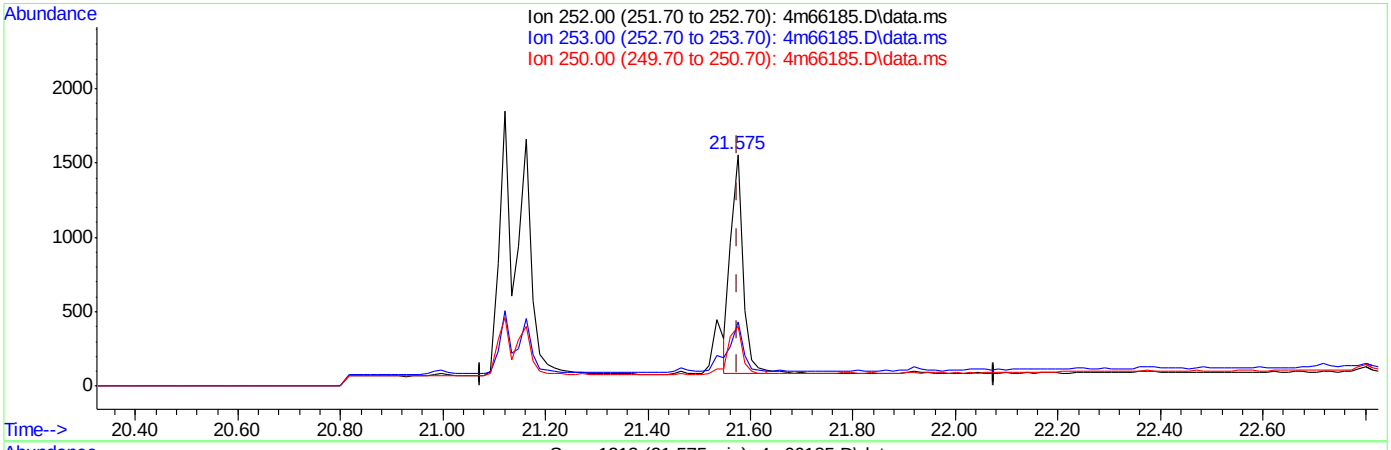
response 2993

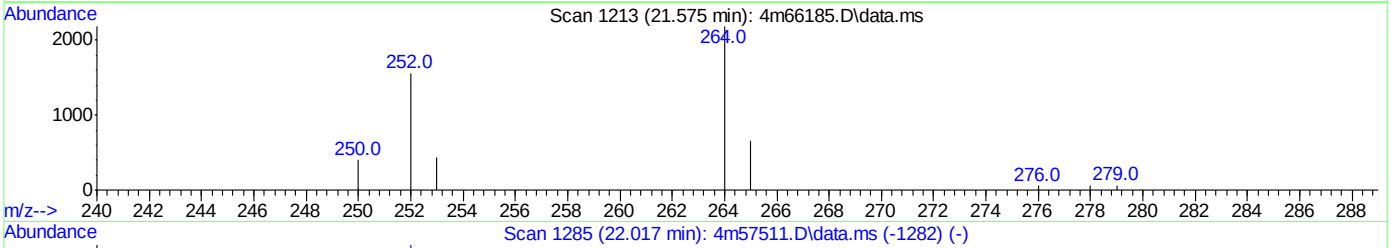
Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.56
250.00	21.30	21.68
0.00	0.00	0.00

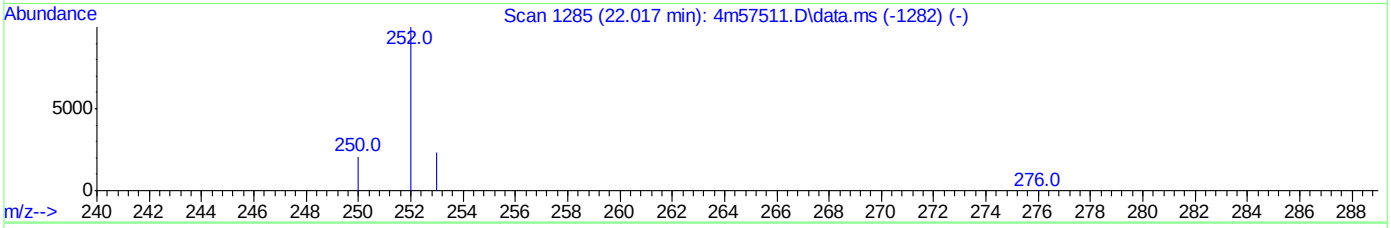
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:53:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66185.D\data.ms

(31) Benzo[a]pyrene (t)

21.575min (0.000) 0.04ppm m

response 2415

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	27.73
250.00	21.30	25.74
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	61071	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	110365	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	174894	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	142482	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	61071	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	110365	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	3577	0.37	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.74%#			
3) Phenol-d5	5.497	99	5671	0.36	ppm	0.01
Spiked Amount 50.000			Recovery = 0.72%			
6) Nitrobenzene-d5	6.984	82	5230	0.38	ppm	0.02
Spiked Amount 50.000			Recovery = 0.76%			
11) 2-Fluorobiphenyl	10.431	172	9683	0.39	ppm	0.00
Spiked Amount 50.000			Recovery = 0.78%			
17) 2,4,6-Tribromophenol	13.313	330	1645	0.29	ppm	0.00
Spiked Amount 50.000			Recovery = 0.58%			
25) Terphenyl-d14	17.749	244	9281	0.33	ppm	0.00
Spiked Amount 50.000			Recovery = 0.66%			
Target Compounds						Qvalue
4) Phenol	5.525	94	1518	0.09	ppm	87
5) bis(2-Chloroethyl)ether	5.607	93	183	0.01	ppm #	63
7) Naphthalene	8.314	128	846	0.02	ppm	97
8) Hexachlorobutadiene	8.593	225	149	0.02	ppm	97
9) 2-Methylnaphthalene	9.667	142	894	0.05	ppm	93
13) Acenaphthylene	11.431	152	573	0.02	ppm	88
14) Acenaphthene	11.764	153	350	0.02	ppm	94
15) Dibenzofuran	12.141	168	1686	0.06	ppm	100
16) Fluorene	12.812	166	615	0.02	ppm	100
18) Hexachlorobenzene	13.908	284	272	0.02	ppm	95
19) Pentachlorophenol	14.360	266	500	0.11	ppm	91
20) Phenanthrene	14.717	178	843	0.02	ppm	97
21) Anthracene	14.830	178	770	0.02	ppm	95
23) Fluoranthene	16.977	202	1130	0.02	ppm	97
24) Pyrene	17.372	202	909	0.02	ppm	96
26) Benzo[a]anthracene	19.462	228	826	0.02	ppm #	94
27) Chrysene	19.518	228	990	0.02	ppm	96
29) Benzo[b]fluoranthene	21.120	252	993	0.02	ppm	95
30) Benzo[k]fluoranthene	21.162	252	1119	0.02	ppm	95
31) Benzo[a]pyrene	21.575	252	1019	0.02	ppm	94
32) Indeno[1,2,3-cd]pyrene	23.131	276	1096	0.02	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	845	0.02	ppm	75
34) Benzo[g,h,i]perylene	23.530	276	924	0.02	ppm	99
37) 1-Methylnaphthalene	9.858	142	384	0.02	ppm #	63
39) 4,6-dinitro-2-methylph...	13.027	198	338	0.07	ppm	84
40) 1,2-Diphenylhydrazine	13.170	77	484	0.01	ppm	96
41) n-nitrosodiphenylamine	13.122	169	347	0.01	ppm	85

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

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

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

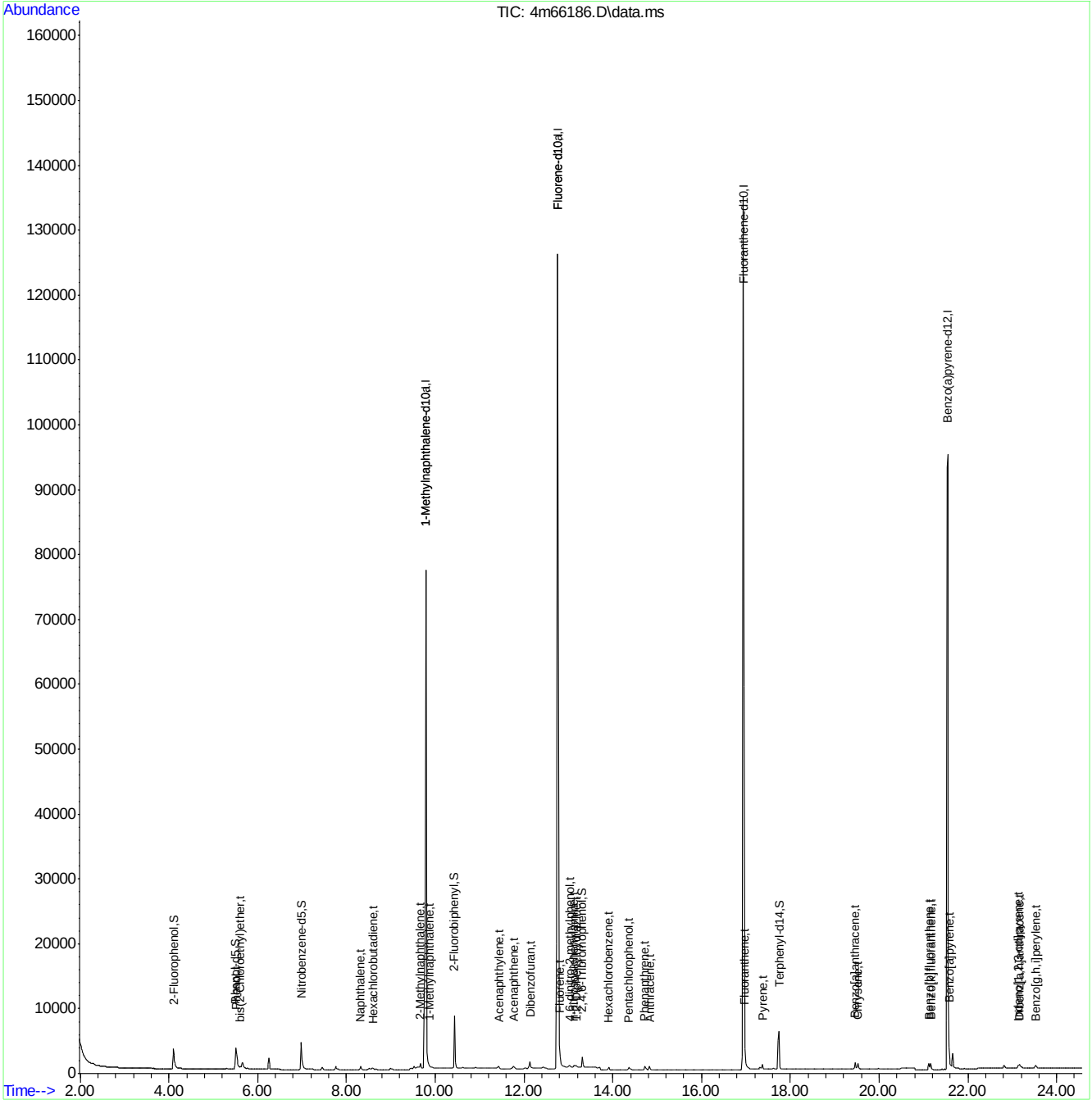
7.6.33

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



4M66187.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
06/21/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.786	152	52088	4.00	ppm		0.00
12) Fluorene-d10	12.764	176	96797	4.00	ppm		0.00
22) Fluoranthene-d10	16.939	212	149300	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	21.533	264	120485	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	9.786	152	52088	4.00	ppm		0.00
38) Fluorene-d10a	12.764	176	96797	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.110	112	1452	0.17	ppm		0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.34%#				
3) Phenol-d5	5.511	99	2293	0.17	ppm		0.03
Spiked Amount 50.000			Recovery = 0.34%				
6) Nitrobenzene-d5	6.984	82	2159	0.19	ppm		0.02
Spiked Amount 50.000			Recovery = 0.38%				
11) 2-Fluorobiphenyl	10.430	172	4224	0.20	ppm		0.00
Spiked Amount 50.000			Recovery = 0.40%				
17) 2,4,6-Tribromophenol	13.313	330	681	0.14	ppm		0.00
Spiked Amount 50.000			Recovery = 0.28%				
25) Terphenyl-d14	17.749	244	3995	0.17	ppm		0.00
Spiked Amount 50.000			Recovery = 0.34%				
Target Compounds							Qvalue
4) Phenol	5.525	94	640	0.04	ppm		62
7) Naphthalene	8.314	128	363	0.01	ppm		98
9) 2-Methylnaphthalene	9.667	142	639	0.04	ppm		90
13) Acenaphthylene	11.431	152	239	0.01	ppm		93
14) Acenaphthene	11.764	153	148	0.01	ppm		99
15) Dibenzofuran	12.141	168	1318	0.05	ppm		100
16) Fluorene	12.812	166	262	0.01	ppm		97
18) Hexachlorobenzene	13.908	284	92m	0.01	ppm		
19) Pentachlorophenol	14.360	266	329	0.08	ppm		91
20) Phenanthrene	14.717	178	374	0.01	ppm		97
21) Anthracene	14.830	178	349	0.01	ppm		93
23) Fluoranthene	16.977	202	554	0.01	ppm		98
24) Pyrene	17.372	202	401	0.01	ppm		97
26) Benzo[a]anthracene	19.462	228	365	0.01	ppm	#	92
27) Chrysene	19.518	228	436	0.01	ppm		94
29) Benzo[b]fluoranthene	21.120	252	521	0.01	ppm		94
30) Benzo[k]fluoranthene	21.162	252	610	0.01	ppm		95
31) Benzo[a]pyrene	21.575	252	529	0.01	ppm		88
32) Indeno[1,2,3-cd]pyrene	23.131	276	477	0.01	ppm		92
33) Dibenz[a,h]anthracene	23.172	278	406	0.01	ppm		88
34) Benzo[g,h,i]perylene	23.530	276	455	0.01	ppm		99
37) 1-Methylnaphthalene	9.858	142	183	0.01	ppm	#	69
39) 4,6-dinitro-2-methylph...	13.051	198	165	0.04	ppm		75
40) 1,2-Diphenylhydrazine	13.170	77	192	0.01	ppm		96
41) n-nitrosodiphenylamine	13.146	169	162	0.01	ppm		82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 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

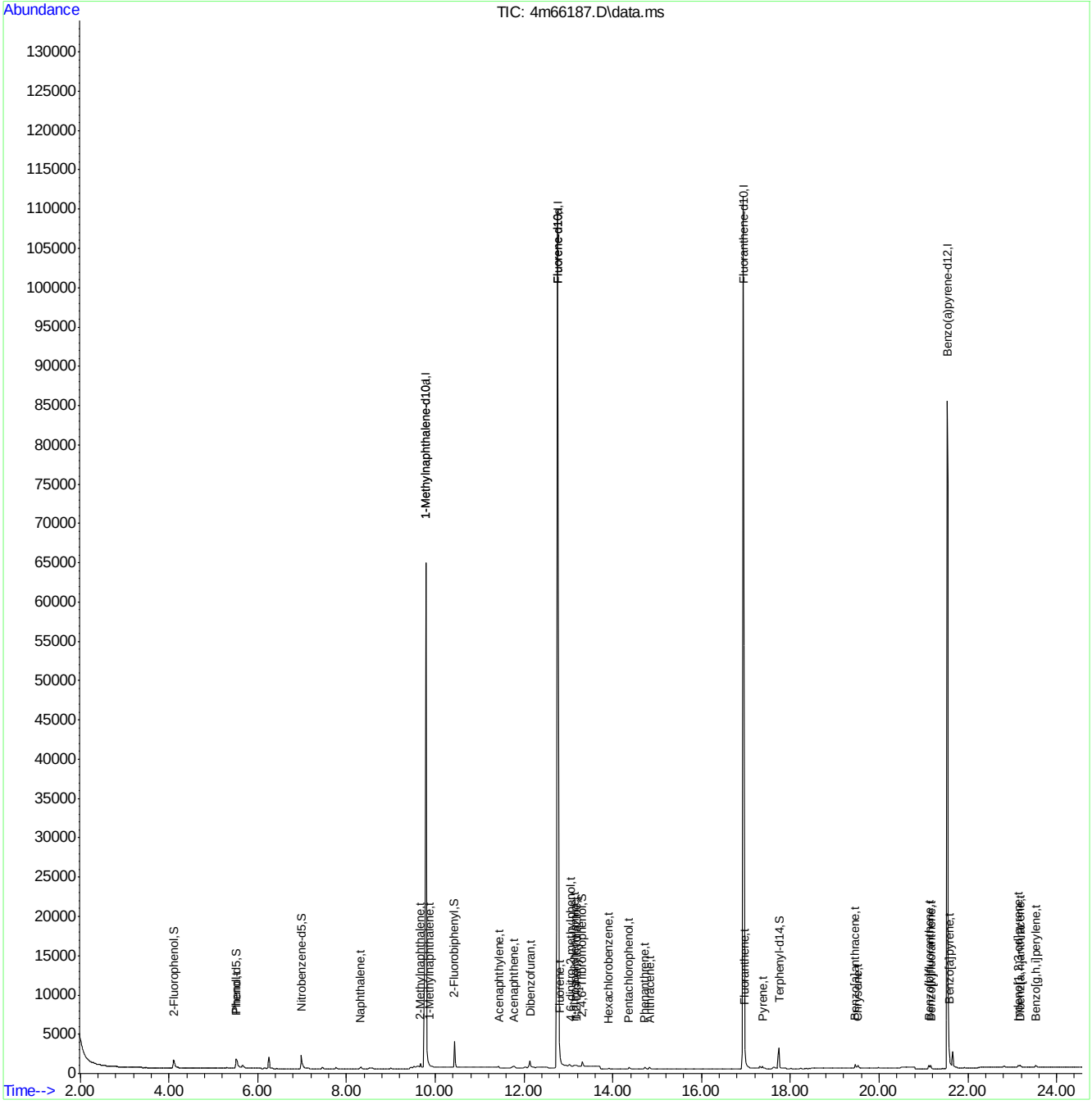
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 07:59:03 2016 MANAGER Page: 3

Manual Integration Approval Summary

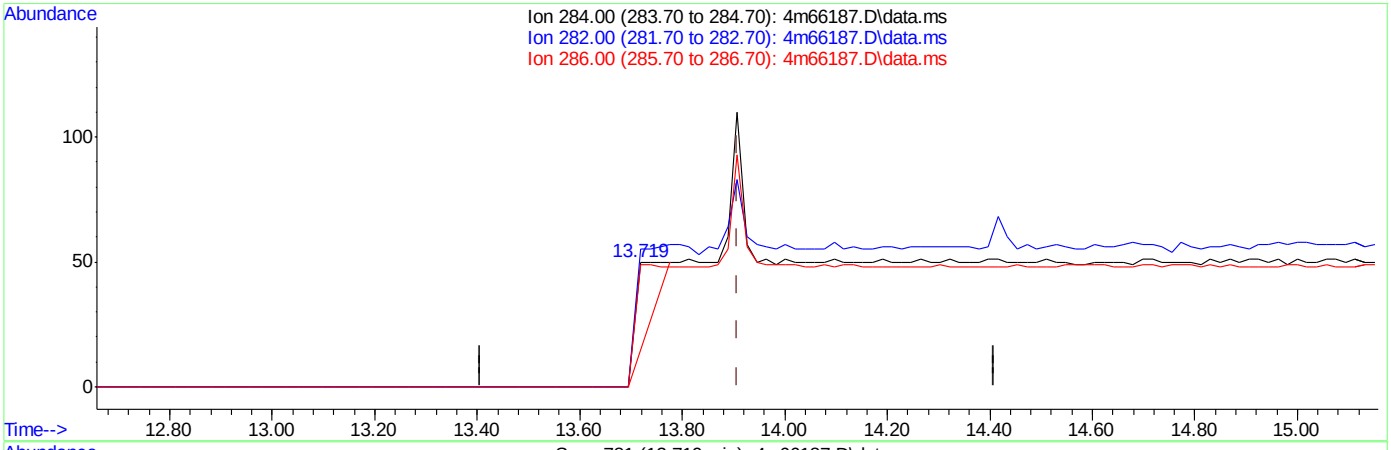
Sample Number:	E4M2974-IC2974	**Method:**	EPA 625 BY SIM
Lab FileID:	4M66187.D	**Analyst approved:**	06/21/16 08:32 Linsey Kirschmann
Injection Time:	06/21/16 02:01	**Supervisor approved:**	06/21/16 13:33 Nina Pandya

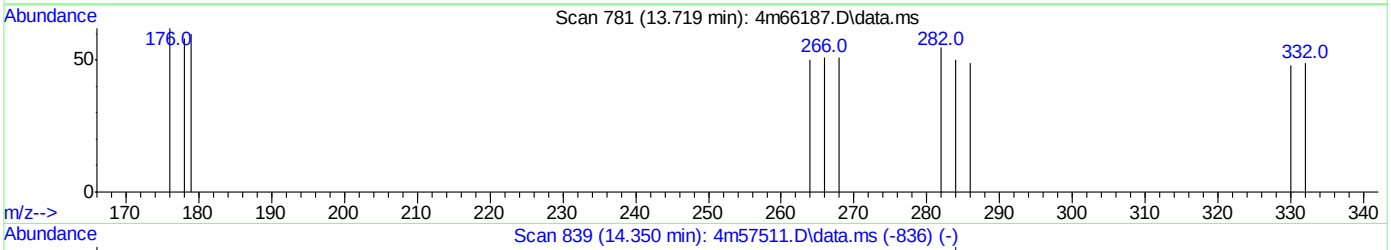
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorobenzene	118-74-1		13.91	Poor instrument integration

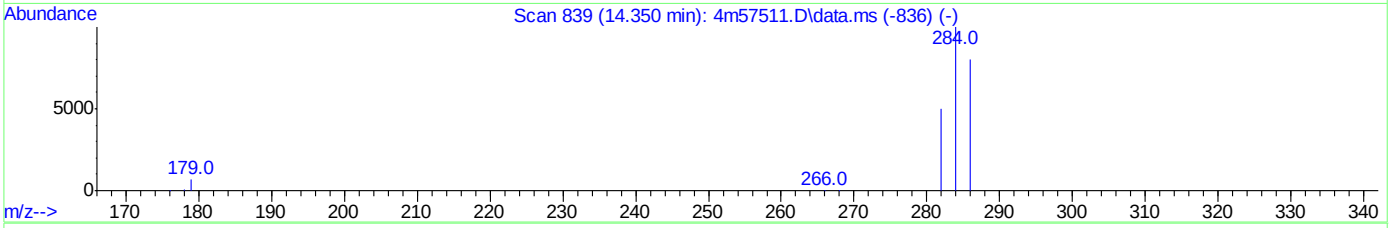
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:53:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66187.D\data.ms

(18) Hexachlorobenzene (t)

13.719min (-0.188) 0.01ppm

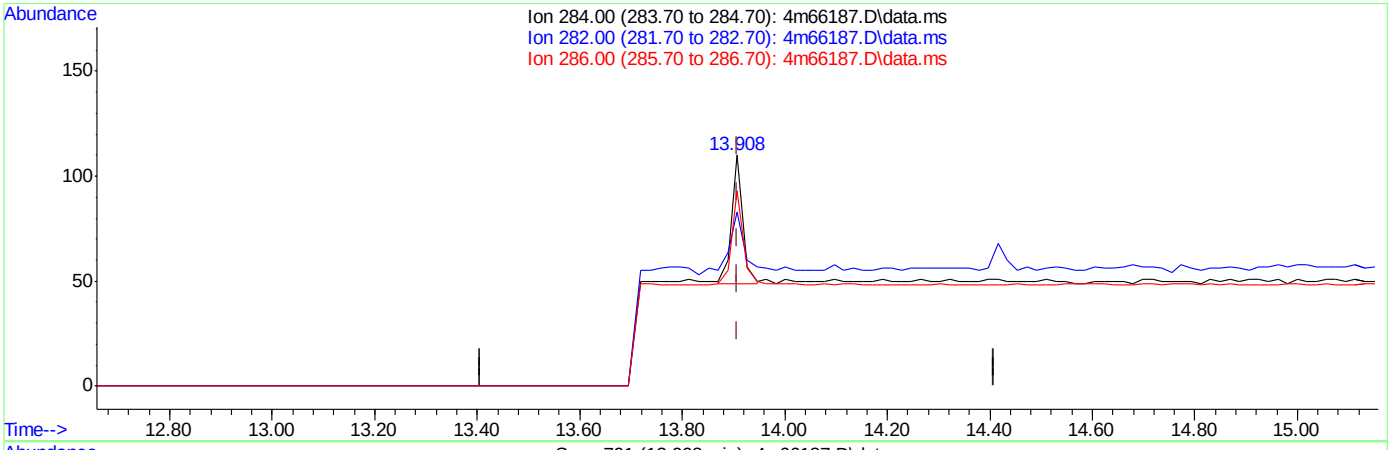
response 121

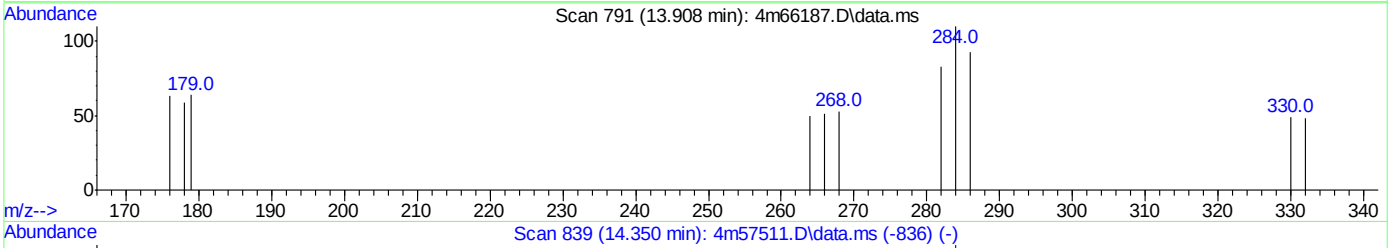
Ion	Exp%	Act%
284.00	100	100
282.00	49.10	106.00#
286.00	81.90	100.00
0.00	0.00	0.00

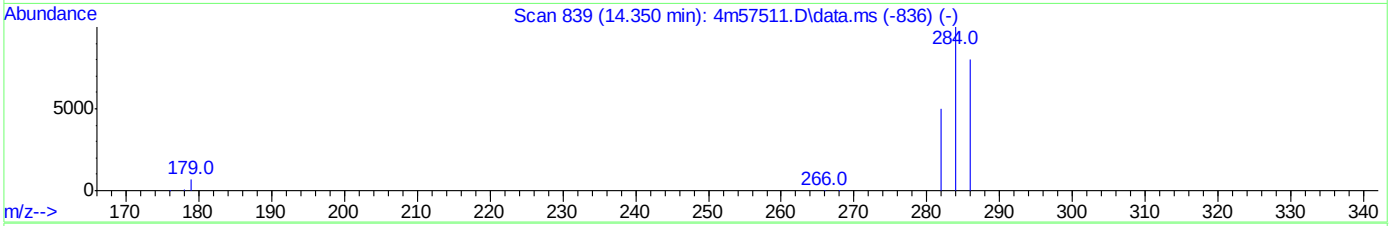
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:53:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66187.D\data.ms

(18) Hexachlorobenzene (t)

13.908min (-0.000) 0.01ppm m

response 92

Ion	Exp%	Act%
284.00	100	100
282.00	49.10	75.45
286.00	81.90	84.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	59276	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	118283	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	166736	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	138747	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	59276	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	118283	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	886370	93.31	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 186.62%#			
3) Phenol-d5	5.497	99	1388174	90.88	ppm	0.01
Spiked Amount 50.000			Recovery = 181.76%			
6) Nitrobenzene-d5	6.984	82	1286964	97.03	ppm	0.02
Spiked Amount 50.000			Recovery = 194.06%			
11) 2-Fluorobiphenyl	10.430	172	1589587	66.29	ppm	0.00
Spiked Amount 50.000			Recovery = 132.58%			
17) 2,4,6-Tribromophenol	13.313	330	390490	63.37	ppm	0.00
Spiked Amount 50.000			Recovery = 126.74%			
25) Terphenyl-d14	17.749	244	1801284	68.07	ppm	0.00
Spiked Amount 50.000			Recovery = 136.14%			
Target Compounds						Qvalue
4) Phenol	5.511	94	382997	23.65	ppm	84
5) bis(2-Chloroethyl)ether	5.607	93	57615	4.45	ppm #	55
7) Naphthalene	8.314	128	200110	4.77	ppm	100
8) Hexachlorobutadiene	8.593	225	33384	4.78	ppm	99
9) 2-Methylnaphthalene	9.667	142	88068	4.86	ppm	99
10) Hexachlorocyclopentadiene	10.001	237	29396	23.91	ppm	98
13) Acenaphthylene	11.409	152	144680	4.14	ppm	100
14) Acenaphthene	11.764	153	86149	3.89	ppm	99
15) Dibenzofuran	12.141	168	132775	4.06	ppm	100
16) Fluorene	12.812	166	163295	4.14	ppm	99
18) Hexachlorobenzene	13.908	284	48933	3.97	ppm	100
19) Pentachlorophenol	14.341	266	117769	23.84	ppm	96
20) Phenanthrene	14.717	178	209846	3.96	ppm	100
21) Anthracene	14.811	178	201847	4.22	ppm	88
23) Fluoranthene	16.977	202	223507	4.21	ppm	99
24) Pyrene	17.372	202	230182	4.44	ppm	98
26) Benzo[a]anthracene	19.462	228	196135	4.47	ppm	99
27) Chrysene	19.518	228	194015	4.37	ppm	99
29) Benzo[b]fluoranthene	21.120	252	219460	4.30	ppm	99
30) Benzo[k]fluoranthene	21.162	252	201152	4.12	ppm	99
31) Benzo[a]pyrene	21.575	252	192124	4.13	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	236117	4.31	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	193986	4.26	ppm	96
34) Benzo[g,h,i]perylene	23.516	276	204909	4.34	ppm	100
36) 1,4-Dioxane	2.288	88	19058	4.44	ppm	86
37) 1-Methylnaphthalene	9.834	142	82152	4.92	ppm	100
39) 4,6-dinitro-2-methylph...	13.003	198	117585	23.28	ppm #	59

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	142303	3.80 ppm	97
41) n-nitrosodiphenylamine	13.122	169	99654	3.74 ppm	97

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

7.6.35

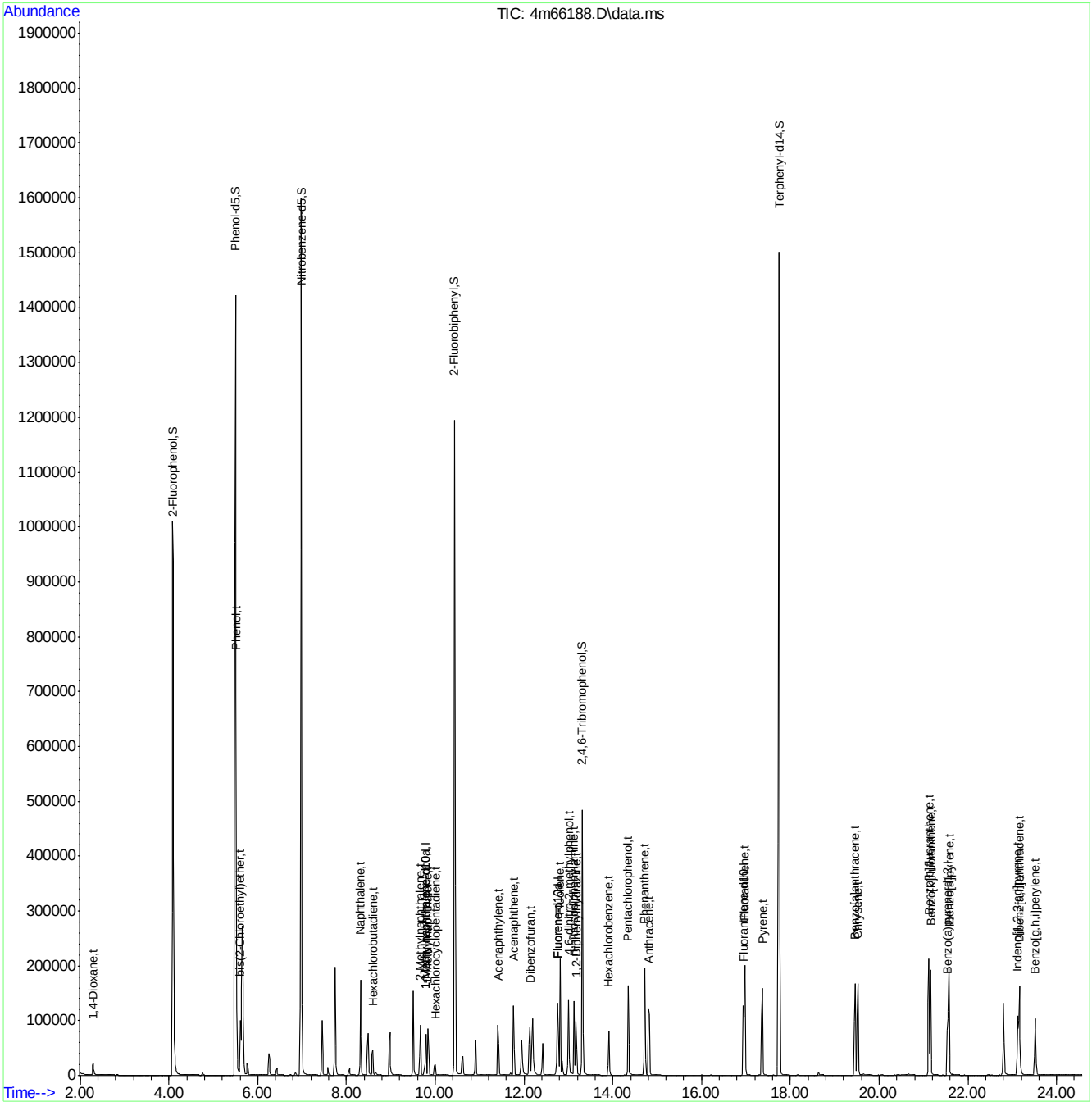
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	54074	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	100500	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	157255	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	125988	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	54074	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	100500	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.089	112	436515	50.37	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 100.74%#			
3) Phenol-d5	5.483	99	668228	47.96	ppm	0.00
Spiked Amount 50.000			Recovery = 95.92%			
6) Nitrobenzene-d5	6.968	82	590009	48.76	ppm	0.00
Spiked Amount 50.000			Recovery = 97.52%			
11) 2-Fluorobiphenyl	10.430	172	966520	44.19	ppm	0.00
Spiked Amount 50.000			Recovery = 88.38%			
17) 2,4,6-Tribromophenol	13.313	330	225826	43.13	ppm	0.00
Spiked Amount 50.000			Recovery = 86.26%			
25) Terphenyl-d14	17.749	244	1074721	43.06	ppm	0.00
Spiked Amount 50.000			Recovery = 86.12%			
Target Compounds						Qvalue
4) Phenol	5.511	94	184009	12.46	ppm	92
5) bis(2-Chloroethyl)ether	5.607	93	27900	2.36	ppm	82
7) Naphthalene	8.314	128	95674	2.50	ppm	99
8) Hexachlorobutadiene	8.593	225	15922	2.50	ppm	98
9) 2-Methylnaphthalene	9.667	142	41641	2.52	ppm	100
10) Hexachlorocyclopentadiene	10.001	237	10207	9.10	ppm	99
13) Acenaphthylene	11.409	152	68190	2.30	ppm	99
14) Acenaphthene	11.764	153	42532	2.26	ppm	100
15) Dibenzofuran	12.141	168	60896	2.19	ppm	100
16) Fluorene	12.812	166	74454	2.22	ppm	97
18) Hexachlorobenzene	13.908	284	22746	2.17	ppm	97
19) Pentachlorophenol	14.341	266	51313	12.22	ppm	94
20) Phenanthrene	14.717	178	100400	2.23	ppm	99
21) Anthracene	14.811	178	93614	2.30	ppm	88
23) Fluoranthene	16.977	202	106922	2.14	ppm	99
24) Pyrene	17.372	202	107550	2.20	ppm	99
26) Benzo[a]anthracene	19.462	228	86425	2.09	ppm	99
27) Chrysene	19.518	228	89562	2.14	ppm	98
29) Benzo[b]fluoranthene	21.120	252	103181	2.22	ppm	99
30) Benzo[k]fluoranthene	21.148	252	98042	2.21	ppm	88
31) Benzo[a]pyrene	21.575	252	92339	2.19	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	110721	2.22	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	91992	2.22	ppm	97
34) Benzo[g,h,i]perylene	23.516	276	97040	2.26	ppm	100
36) 1,4-Dioxane	2.288	88	8751	2.24	ppm	78
37) 1-Methylnaphthalene	9.834	142	40647	2.67	ppm	97
39) 4,6-dinitro-2-methylph...	13.003	198	61494	14.33	ppm	90

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	74229	2.34 ppm	99
41) n-nitrosodiphenylamine	13.122	169	54024	2.39 ppm	97

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

7.6.36

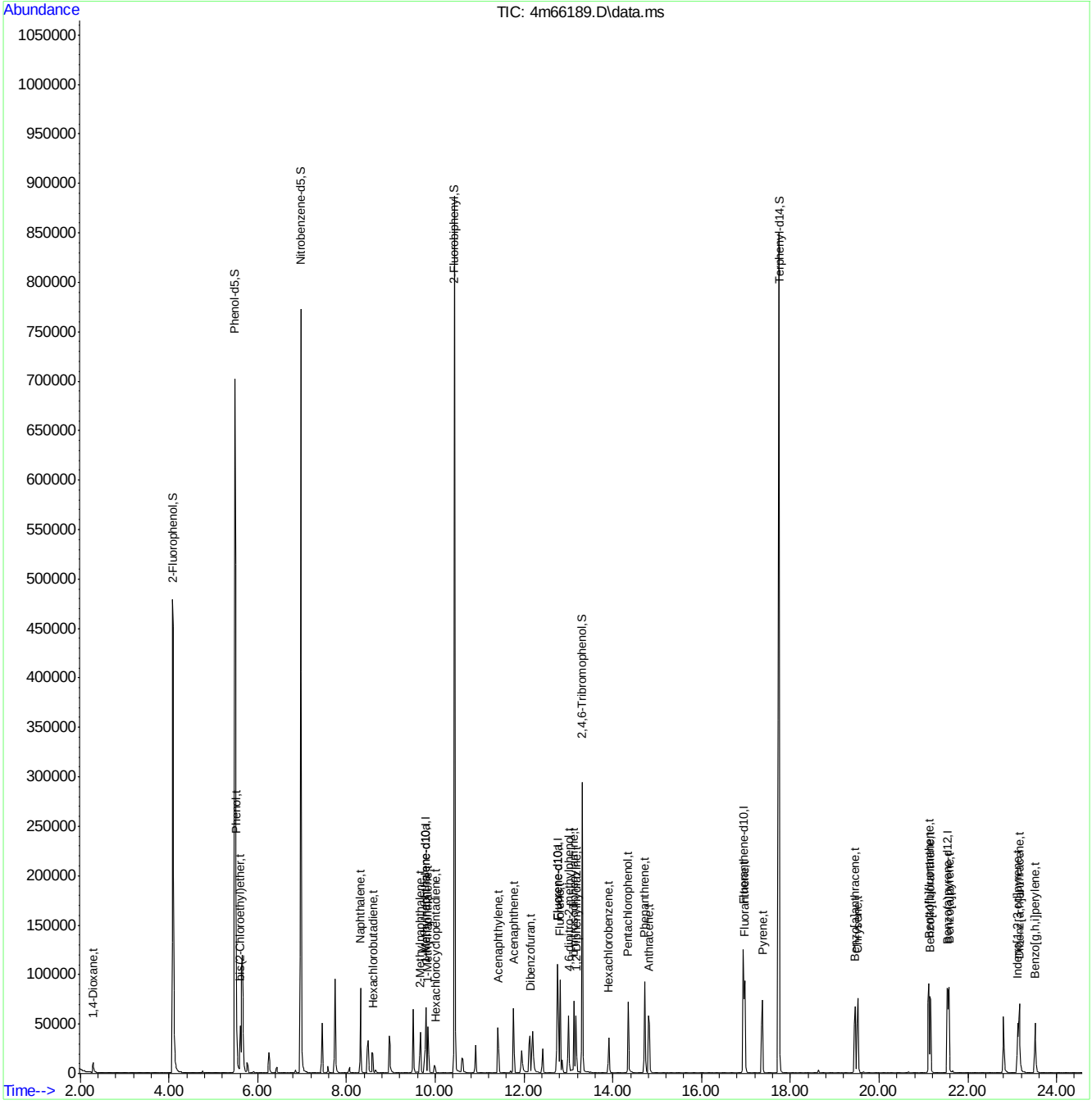
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	66763	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	117196	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	179820	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	128092	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	66763	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	117196	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	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	5.607	93	12366	0.97	ppm	96
7) Naphthalene	8.314	128	44242	0.95	ppm	99
8) Hexachlorobutadiene	8.577	225	7565	0.95	ppm	72
9) 2-Methylnaphthalene	9.667	142	17698	0.80	ppm	98
10) Hexachlorocyclopentadiene	10.001	237	979	0.91	ppm	97
13) Acenaphthylene	11.409	152	29207	0.94	ppm	99
14) Acenaphthene	11.764	153	18887	0.98	ppm	99
15) Dibenzofuran	12.141	168	27377	0.87	ppm	100
16) Fluorene	12.812	166	31615	0.91	ppm	98
18) Hexachlorobenzene	13.908	284	10114	0.87	ppm	97
20) Phenanthrene	14.717	178	43334	0.93	ppm	99
21) Anthracene	14.812	178	37045	0.86	ppm	88
23) Fluoranthene	16.977	202	44839	0.85	ppm	98
24) Pyrene	17.372	202	44548	0.87	ppm	99
26) Benzo[a]anthracene	19.462	228	35984	0.81	ppm	99
27) Chrysene	19.519	228	36630	0.79	ppm	98
29) Benzo[b]fluoranthene	21.121	252	37951	0.85	ppm	98
30) Benzo[k]fluoranthene	21.162	252	38594	0.90	ppm	97
31) Benzo[a]pyrene	21.575	252	36802	0.92	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	43358	0.92	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	35154	0.90	ppm	99
34) Benzo[g,h,i]perylene	23.516	276	36971	0.90	ppm	100
36) 1,4-Dioxane	2.299	88	3790	0.82	ppm	87
40) 1,2-Diphenylhydrazine	13.170	77	28295	0.87	ppm	100
41) n-nitrosodiphenylamine	13.122	169	20254	0.88	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

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

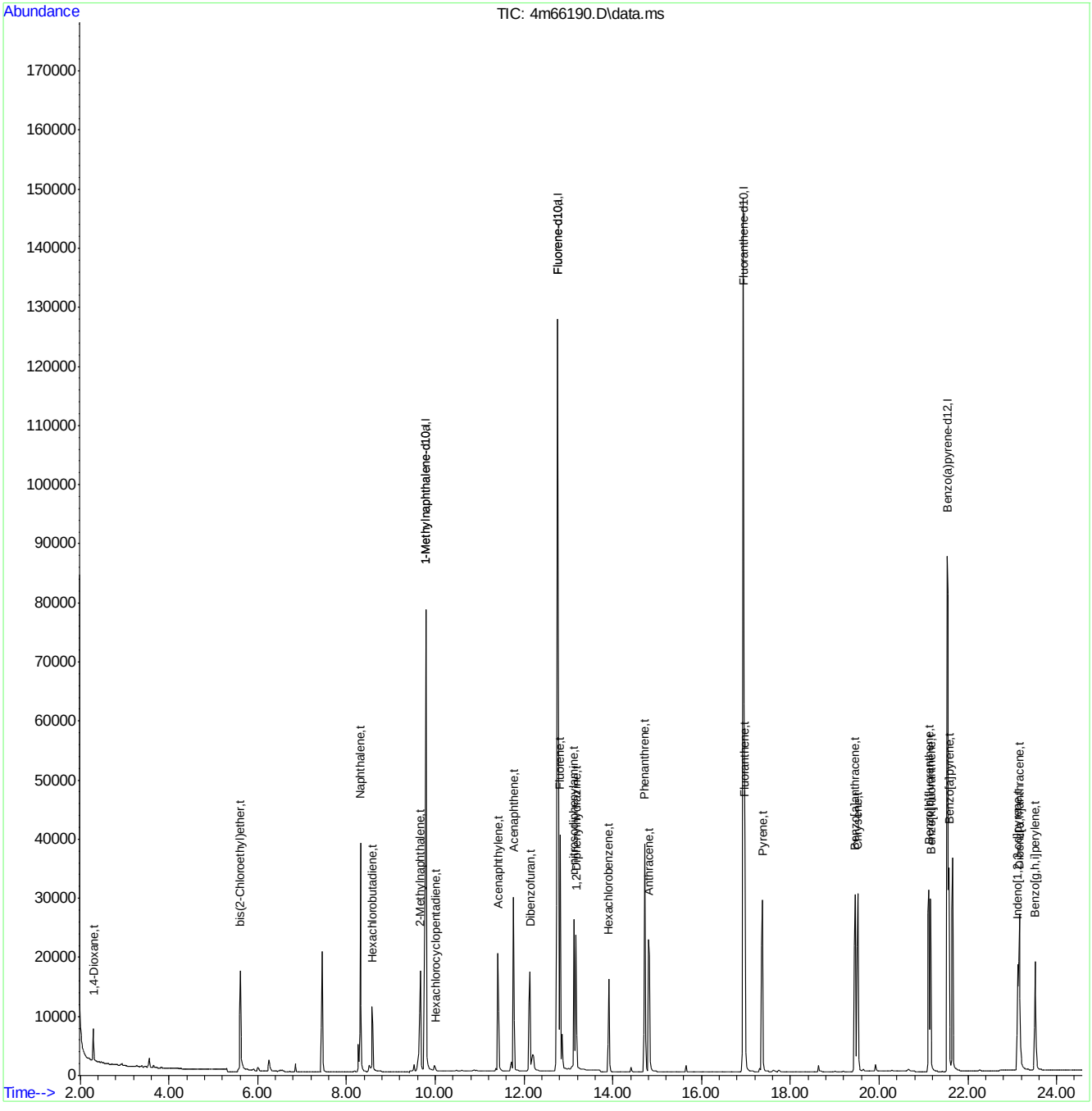
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66191.D
Acq On : 21 Jun 2016 4:00 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 08:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	50054	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	78597	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	127549	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	101417	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	50054	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	78597	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	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	0	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
4) Phenol	5.511	94	69922	5.14	ppm	85
19) Pentachlorophenol	14.341	266	16205	5.66	ppm	99
39) 4,6-dinitro-2-methylph...	13.003	198	18235	4.84	ppm	97

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

7.6.38

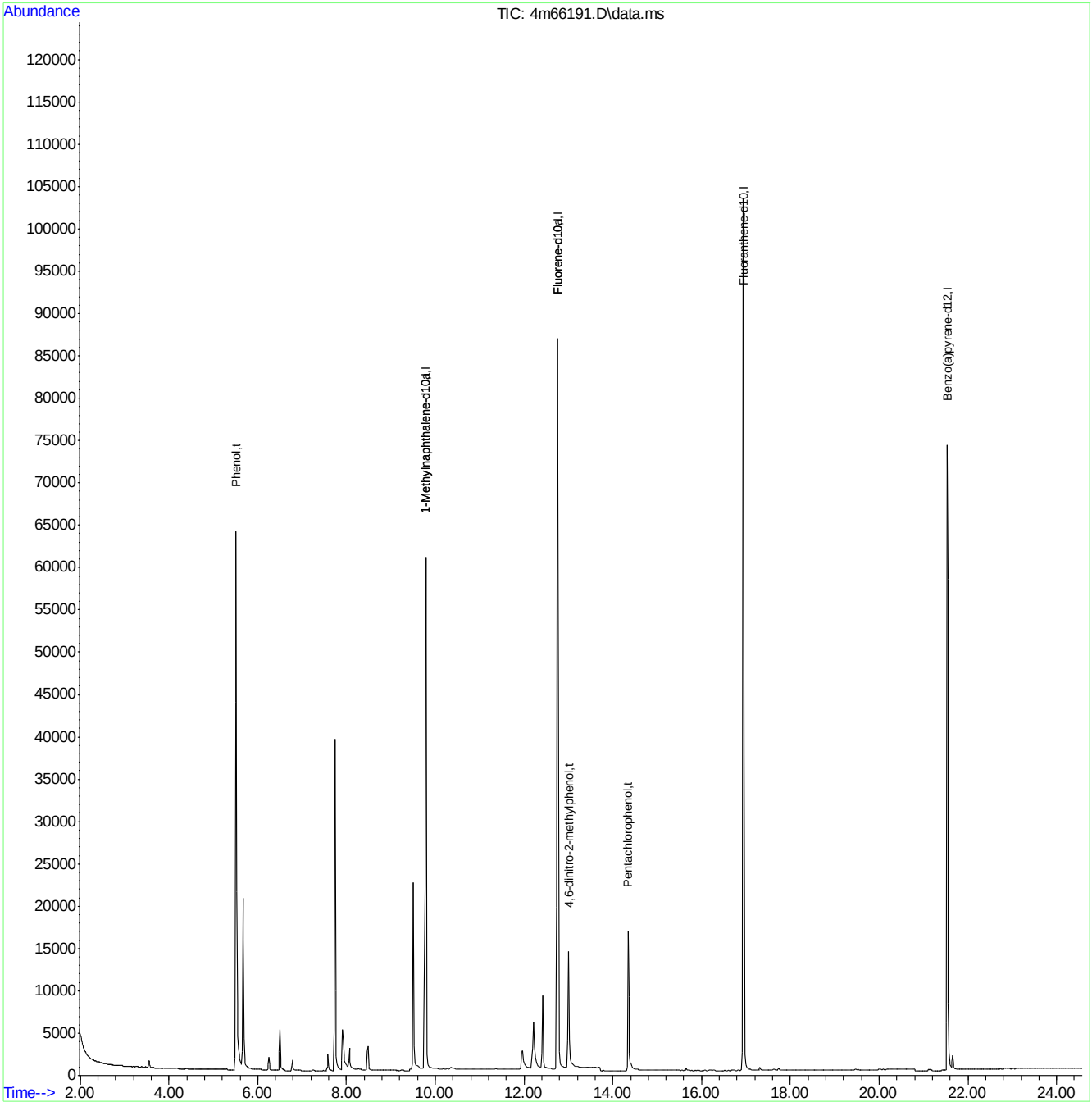
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66191.D
Acq On : 21 Jun 2016 4:00 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 08:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 14:09:06 2016 MANAGER

Page: 2

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66259.D
Acq On : 22 Jun 2016 2:51 pm
Operator : linseyk
Sample : cc2974-.5
Misc : op94970a,e4m2978
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 08:55:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.762	152	59912	4.00	ppm	-0.02
12) Fluorene-d10	12.740	176	87212	4.00	ppm	-0.02
22) Fluoranthene-d10	16.920	212	163492	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.520	264	130725	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.762	152	59912	4.00	ppm	-0.02
38) Fluorene-d10a	12.740	176	87212	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.079	112	94130	9.86	ppm	-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 19.72%			
3) Phenol-d5	5.470	99	149921	9.96	ppm	-0.01
Spiked Amount 50.000			Recovery = 19.92%			
6) Nitrobenzene-d5	6.953	82	127667	9.53	ppm	-0.02
Spiked Amount 50.000			Recovery = 19.06%			
11) 2-Fluorobiphenyl	10.407	172	257496	10.68	ppm	-0.02
Spiked Amount 50.000			Recovery = 21.36%			
17) 2,4,6-Tribromophenol	13.290	330	53752	13.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 26.44%			
25) Terphenyl-d14	17.711	244	251622	10.90	ppm	-0.04
Spiked Amount 50.000			Recovery = 21.80%			
Target Compounds						Qvalue
4) Phenol	5.497	94	39002	2.39	ppm	91
5) bis(2-Chloroethyl)ether	5.580	93	5673	0.49	ppm	64
7) Naphthalene	8.299	128	20620	0.49	ppm	96
8) Hexachlorobutadiene	8.562	225	3598	0.50	ppm	85
9) 2-Methylnaphthalene	9.643	142	9715	0.49	ppm	99
10) Hexachlorocyclopentadiene	9.977	237	1317	1.14	ppm	100
13) Acenaphthylene	11.409	152	10671	0.46	ppm	84
14) Acenaphthene	11.742	153	9909	0.69	ppm	96
15) Dibenzofuran	12.119	168	13806	0.59	ppm	100
16) Fluorene	12.788	166	16514	0.64	ppm	98
18) Hexachlorobenzene	13.889	284	5172	0.60	ppm	88
19) Pentachlorophenol	14.322	266	10245	3.23	ppm	96
20) Phenanthrene	14.699	178	22399	0.64	ppm	96
21) Anthracene	14.793	178	22024	0.69	ppm	92
23) Fluoranthene	16.958	202	23919	0.50	ppm	95
24) Pyrene	17.335	202	24971	0.54	ppm	86
26) Benzo[a]anthracene	19.424	228	21702	0.54	ppm	99
27) Chrysene	19.500	228	21592	0.51	ppm	99
29) Benzo[b]fluoranthene	21.093	252	27351	0.60	ppm	99
30) Benzo[k]fluoranthene	21.134	252	19051	0.43	ppm	98
31) Benzo[a]pyrene	21.547	252	22371	0.55	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.103	276	26796	0.56	ppm	97
33) Dibenz[a,h]anthracene	23.131	278	22416	0.56	ppm	98
34) Benzo[g,h,i]perylene	23.503	276	22925	0.55	ppm	97
36) 1,4-Dioxane	2.268	88	2203	0.50	ppm	96
37) 1-Methylnaphthalene	9.810	142	8672	0.48	ppm	100
39) 4,6-dinitro-2-methylph...	12.979	198	7723	2.14	ppm #	53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66259.D
Acq On : 22 Jun 2016 2:51 pm
Operator : linseyk
Sample : cc2974-.5
Misc : op94970a,e4m2978
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 08:55:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.146	77	14839	0.62 ppm	100
41) n-nitrosodiphenylamine	13.099	169	11408	0.67 ppm	86

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

7.6.39

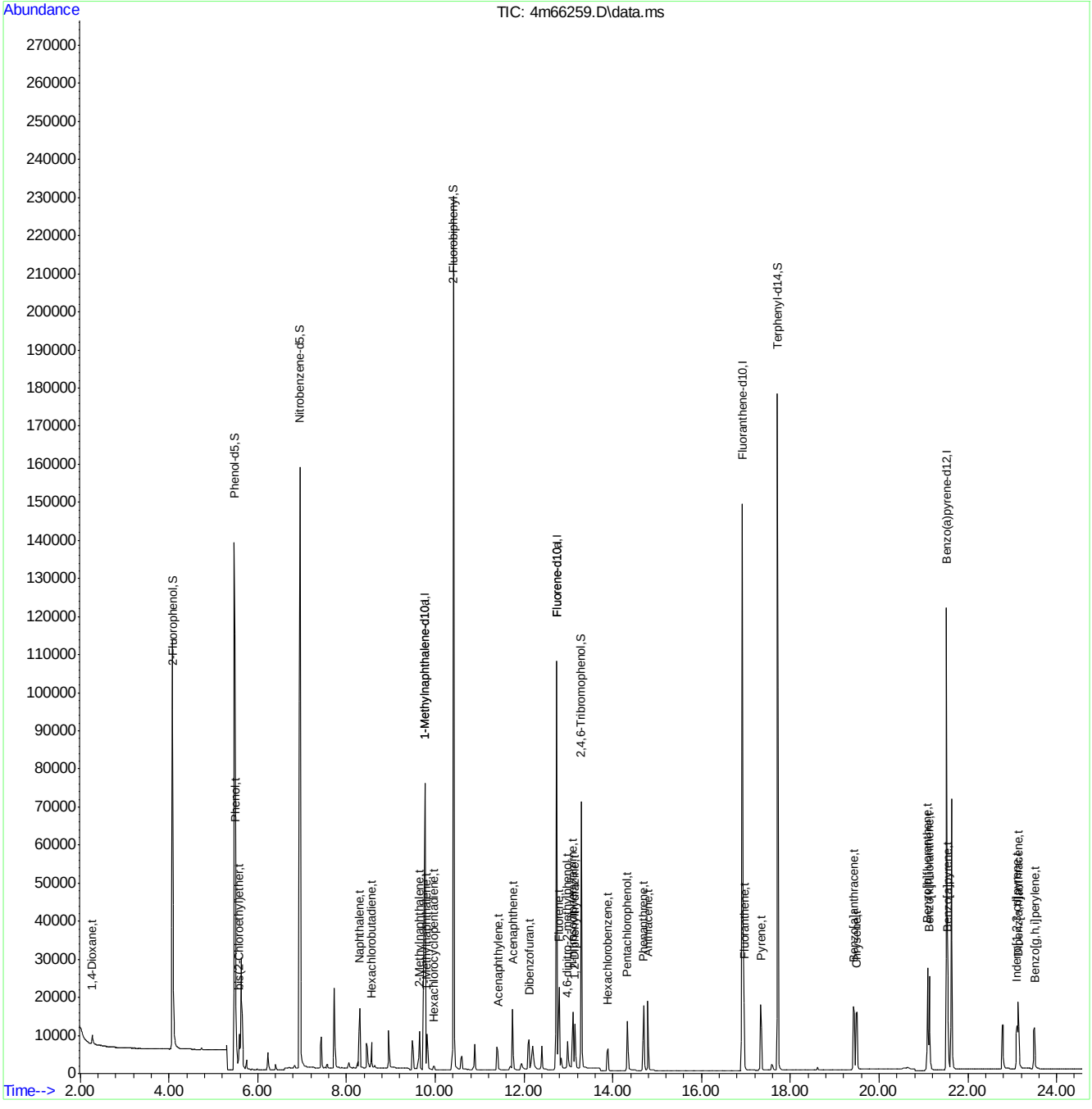
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66259.D
Acq On : 22 Jun 2016 2:51 pm
Operator : linseyk
Sample : cc2974-.5
Misc : op94970a,e4m2978
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 08:55:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



M4M2974SIM.M Thu Jun 23 08:55:59 2016 MANAGER Page: 3

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66280.D
Acq On : 23 Jun 2016 1:44 am
Operator : linseyk
Sample : ecc2974-.5
Misc : op94835a,e4m2978,990
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 23 09:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.762	152	46929	4.00	ppm	-0.02
12) Fluorene-d10	12.740	176	68163	4.00	ppm	-0.02
22) Fluoranthene-d10	16.920	212	135749	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.520	264	106879	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.762	152	46929	4.00	ppm	-0.02
38) Fluorene-d10a	12.740	176	68163	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.069	112	86117	11.52	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 23.04%			
3) Phenol-d5	5.470	99	137892	11.69	ppm	-0.01
Spiked Amount 50.000			Recovery = 23.38%			
6) Nitrobenzene-d5	6.937	82	122027	11.63	ppm	-0.03
Spiked Amount 50.000			Recovery = 23.26%			
11) 2-Fluorobiphenyl	10.407	172	231444	12.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 24.50%			
17) 2,4,6-Tribromophenol	13.289	330	42711	13.44	ppm	-0.02
Spiked Amount 50.000			Recovery = 26.88%			
25) Terphenyl-d14	17.711	244	223742	11.67	ppm	-0.04
Spiked Amount 50.000			Recovery = 23.34%			
Target Compounds						Qvalue
4) Phenol	5.483	94	36678	2.87	ppm	63
5) bis(2-Chloroethyl)ether	5.580	93	5387	0.60	ppm #	55
7) Naphthalene	8.299	128	18696	0.57	ppm	96
8) Hexachlorobutadiene	8.562	225	3309	0.59	ppm	90
9) 2-Methylnaphthalene	9.643	142	8324	0.54	ppm	100
10) Hexachlorocyclopentadiene	9.953	237	786	0.97	ppm #	42
13) Acenaphthylene	11.385	152	9357	0.52	ppm	99
14) Acenaphthene	11.742	153	9008	0.80	ppm	93
15) Dibenzofuran	12.119	168	11590	0.64	ppm	100
16) Fluorene	12.788	166	13245	0.66	ppm	95
18) Hexachlorobenzene	13.870	284	4652	0.69	ppm	84
19) Pentachlorophenol	14.322	266	6400	2.58	ppm	91
20) Phenanthrene	14.698	178	19469	0.71	ppm	95
21) Anthracene	14.793	178	19107	0.76	ppm	94
23) Fluoranthene	16.939	202	20541	0.52	ppm	90
24) Pyrene	17.334	202	21175	0.55	ppm	89
26) Benzo[a]anthracene	19.424	228	17245	0.51	ppm	96
27) Chrysene	19.481	228	17622	0.51	ppm	84
29) Benzo[b]fluoranthene	21.093	252	19024	0.51	ppm	98
30) Benzo[k]fluoranthene	21.134	252	19410	0.54	ppm	98
31) Benzo[a]pyrene	21.547	252	17263	0.51	ppm	96
32) Indeno[1,2,3-cd]pyrene	23.089	276	21738	0.55	ppm	92
33) Dibenz[a,h]anthracene	23.131	278	18144	0.56	ppm	97
34) Benzo[g,h,i]perylene	23.489	276	19210	0.56	ppm	97
36) 1,4-Dioxane	2.268	88	2292	0.69	ppm	92
37) 1-Methylnaphthalene	9.810	142	8170	0.58	ppm	95
39) 4,6-dinitro-2-methylph...	12.979	198	6770	2.34	ppm	84

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66280.D
Acq On : 23 Jun 2016 1:44 am
Operator : linseyk
Sample : ecc2974-.5
Misc : op94835a,e4m2978,990
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 23 09:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.146	77	12901	0.68	ppm	98
41) n-nitrosodiphenylamine	13.098	169	9802	0.73	ppm	83

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

7.6.40

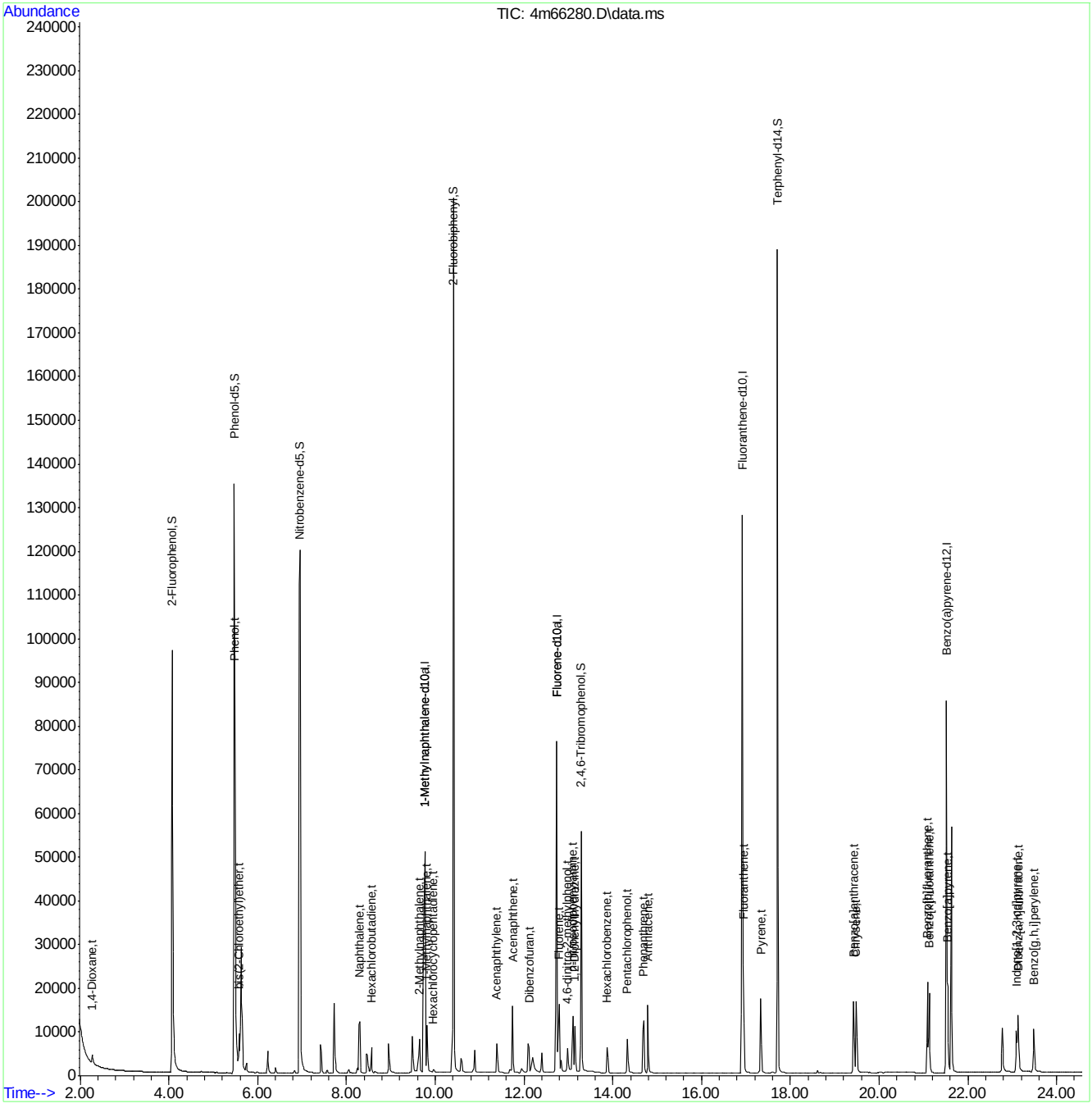
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2978\
Data File : 4m66280.D
Acq On : 23 Jun 2016 1:44 am
Operator : linseyk
Sample : ecc2974-.5
Misc : op94835a,e4m2978,990
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 23 09:10:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66379.D
Acq On : 27 Jun 2016 10:57 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2984
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:23:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.715	152	51088	4.00	ppm	-0.07
12) Fluorene-d10	12.696	176	55887	4.00	ppm	-0.07
22) Fluoranthene-d10	16.883	212	128551	4.00	ppm	-0.06
28) Benzo(a)pyrene-d12	21.479	264	105934	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.715	152	51088	4.00	ppm	-0.07
38) Fluorene-d10a	12.696	176	55887	4.00	ppm	-0.07
System Monitoring Compounds						
2) 2-Fluorophenol	4.069	112	82297	10.11	ppm	-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.22%			
3) Phenol-d5	5.484	99	131099	10.21	ppm	0.00
Spiked Amount 50.000			Recovery = 20.42%			
6) Nitrobenzene-d5	6.907	82	118873	10.41	ppm	-0.06
Spiked Amount 50.000			Recovery = 20.82%			
11) 2-Fluorobiphenyl	10.359	172	202654	9.86	ppm	-0.07
Spiked Amount 50.000			Recovery = 19.72%			
17) 2,4,6-Tribromophenol	13.242	330	37774	14.50	ppm	-0.07
Spiked Amount 50.000			Recovery = 29.00%			
25) Terphenyl-d14	17.674	244	224685	12.38	ppm	-0.08
Spiked Amount 50.000			Recovery = 24.76%			
Target Compounds						Qvalue
4) Phenol	5.497	94	36029	2.59	ppm	74
5) bis(2-Chloroethyl)ether	5.552	93	5015	0.51	ppm	78
7) Naphthalene	8.253	128	18269	0.51	ppm	97
8) Hexachlorobutadiene	8.516	225	3159	0.52	ppm	86
9) 2-Methylnaphthalene	9.595	142	8715	0.52	ppm	95
10) Hexachlorocyclopentadiene	9.930	237	812	0.95	ppm	99
13) Acenaphthylene	11.361	152	11341	0.77	ppm	86
14) Acenaphthene	11.698	153	8558	0.93	ppm	91
15) Dibenzofuran	12.075	168	10898	0.73	ppm	100
16) Fluorene	12.740	166	12830	0.78	ppm	99
18) Hexachlorobenzene	13.833	284	4973	0.90	ppm	99
19) Pentachlorophenol	14.284	266	8745	4.30	ppm	97
20) Phenanthrene	14.642	178	18785	0.84	ppm	98
21) Anthracene	14.755	178	16749	0.81	ppm	98
23) Fluoranthene	16.902	202	19798	0.53	ppm	93
24) Pyrene	17.297	202	20857	0.57	ppm	91
26) Benzo[a]anthracene	19.387	228	19239	0.61	ppm	94
27) Chrysene	19.443	228	18110	0.55	ppm	87
29) Benzo[b]fluoranthene	21.052	252	23174	0.63	ppm	97
30) Benzo[k]fluoranthene	21.093	252	15974	0.45	ppm	97
31) Benzo[a]pyrene	21.506	252	17655	0.53	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.048	276	21161	0.54	ppm	94
33) Dibenz[a,h]anthracene	23.076	278	17796	0.55	ppm	96
34) Benzo[g,h,i]perylene	23.434	276	18330	0.54	ppm	97
36) 1,4-Dioxane	2.247	88	1757	0.46	ppm #	78
37) 1-Methylnaphthalene	9.786	142	7150	0.47	ppm #	62
39) 4,6-dinitro-2-methylph...	12.955	198	7024	2.82	ppm	71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66379.D
Acq On : 27 Jun 2016 10:57 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2984
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:23:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.099	77	12242	0.79	ppm	99
41) n-nitrosodiphenylamine	13.051	169	7556	0.69	ppm	99

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

7.6.41

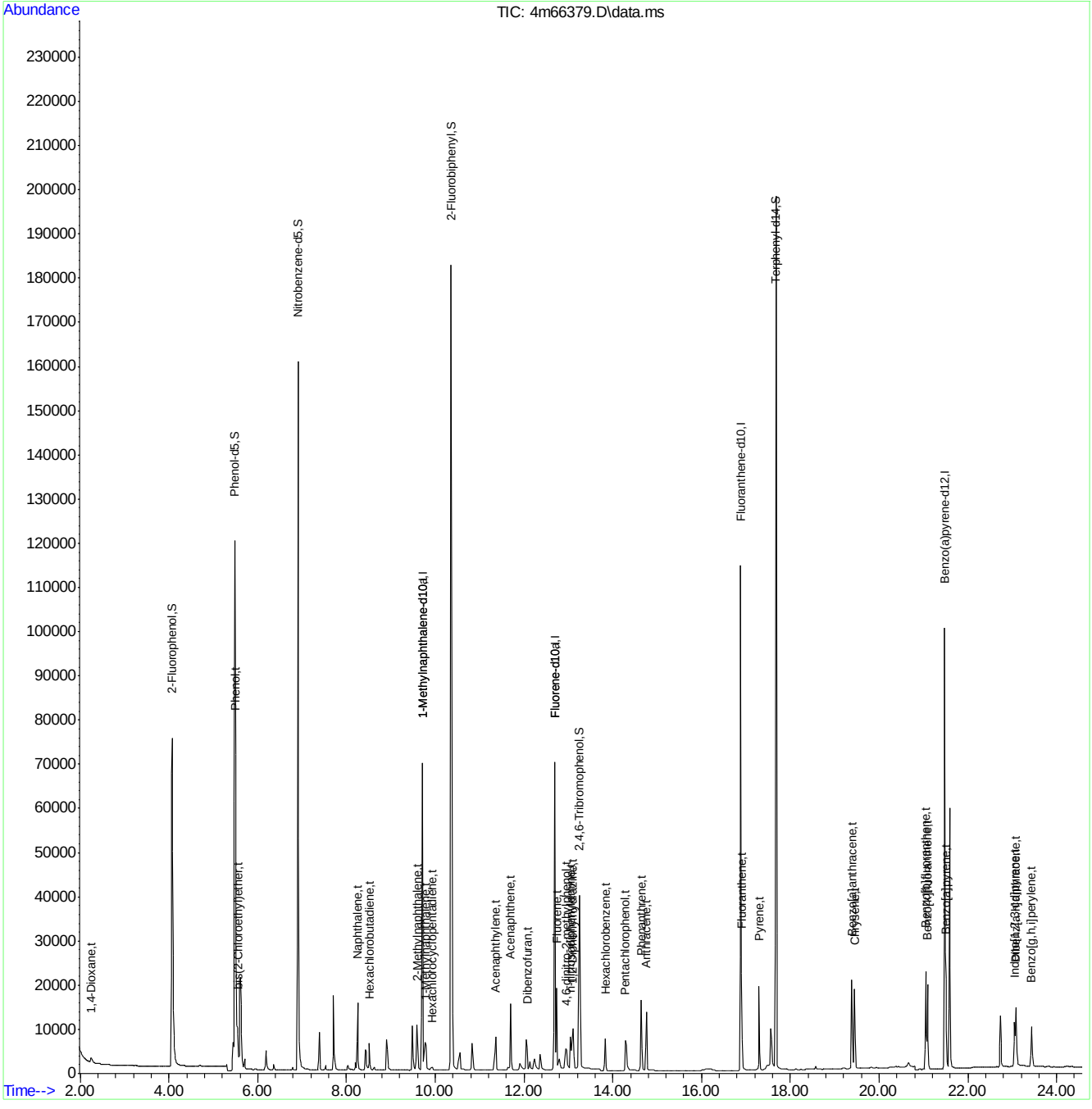
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66379.D
Acq On : 27 Jun 2016 10:57 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2984
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:23:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

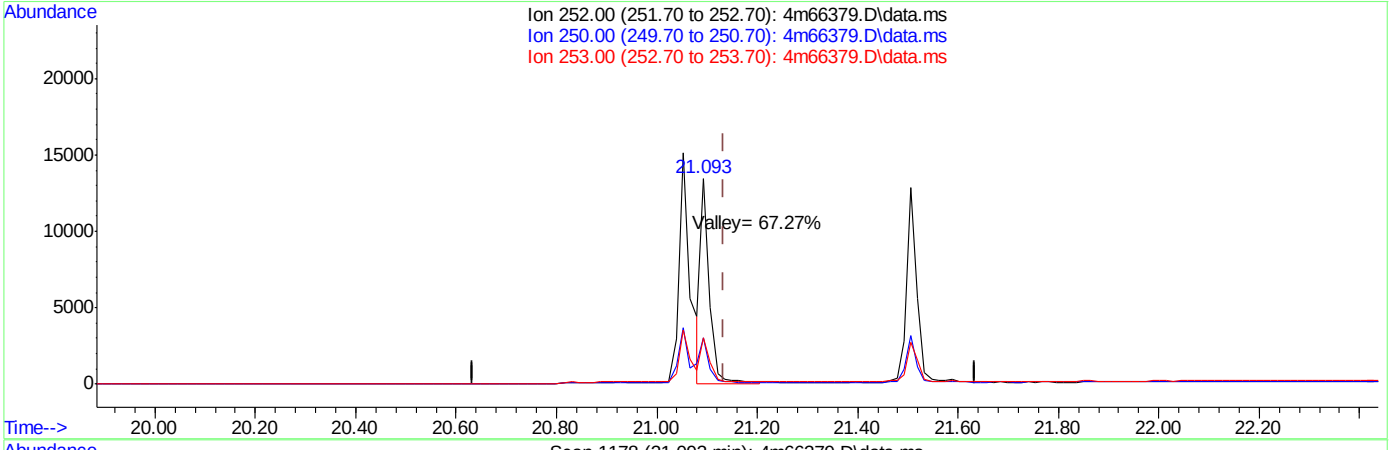


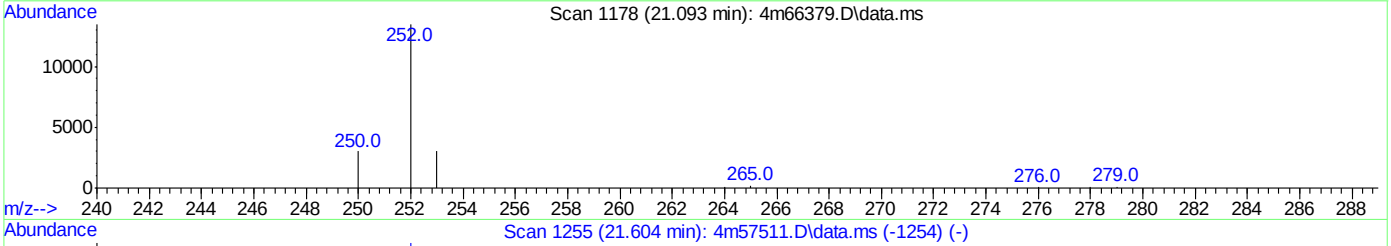
M4M2974SIM.M Mon Jun 27 17:24:07 2016 MANAGER Page: 3

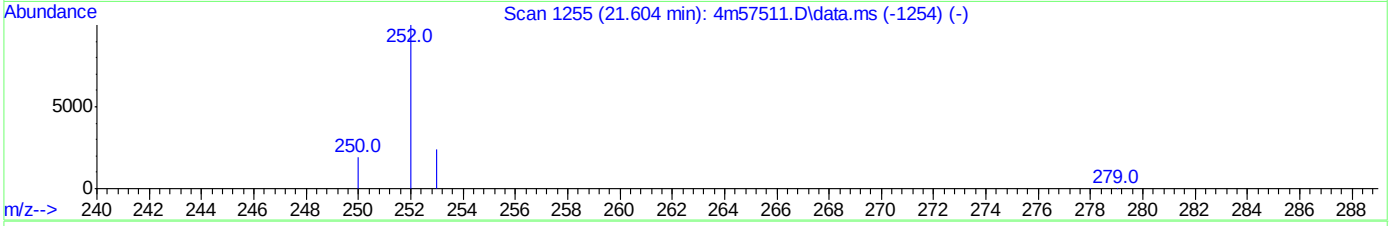
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2984\
Data File : 4m66379.D
Acq On : 27 Jun 2016 10:57 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2984
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 11:23:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration







TIC: 4m66379.D\data.ms

(30) Benzo[k]fluoranthene (t)

21.093min (-0.041) 0.45ppm

response 15974

Ion	Exp%	Act%
252.00	100	100
250.00	22.90	20.63
253.00	21.60	22.20
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66406.D
Acq On : 28 Jun 2016 8:51 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2986
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 13:29:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.667	152	52947	4.00	ppm		-0.12
12) Fluorene-d10	12.651	176	57548	4.00	ppm		-0.11
22) Fluoranthene-d10	16.826	212	125924	4.00	ppm		-0.11
28) Benzo(a)pyrene-d12	21.437	264	104932	4.00	ppm		-0.08
35) 1-Methylnaphthalene-d10a	9.667	152	52947	4.00	ppm		#-0.12
38) Fluorene-d10a	12.651	176	57548	4.00	ppm		-0.11
System Monitoring Compounds							
2) 2-Fluorophenol	4.027	112	68479	8.12	ppm		-0.06
Spiked Amount 50.000	Range 11 - 58		Recovery = 16.24%				
3) Phenol-d5	5.428	99	107815	8.10	ppm		-0.06
Spiked Amount 50.000			Recovery = 16.20%				
6) Nitrobenzene-d5	6.860	82	91319	7.72	ppm		-0.11
Spiked Amount 50.000			Recovery = 15.44%				
11) 2-Fluorobiphenyl	10.311	172	135567	6.36	ppm		-0.12
Spiked Amount 50.000			Recovery = 12.72%				
17) 2,4,6-Tribromophenol	13.194	330	31209	11.64	ppm		-0.12
Spiked Amount 50.000			Recovery = 23.28%				
25) Terphenyl-d14	17.636	244	192713	10.84	ppm		-0.11
Spiked Amount 50.000			Recovery = 21.68%				
Target Compounds							Qvalue
4) Phenol	5.456	94	28724	2.00	ppm		89
5) bis(2-Chloroethyl)ether	5.511	93	4209	0.41	ppm		93
7) Naphthalene	8.206	128	14806	0.40	ppm		100
8) Hexachlorobutadiene	8.469	225	2581	0.41	ppm		72
9) 2-Methylnaphthalene	9.547	142	7909	0.45	ppm		81
10) Hexachlorocyclopentadiene	9.882	237	971	1.02	ppm		86
13) Acenaphthylene	11.314	152	10634	0.70	ppm		89
14) Acenaphthene	11.653	153	6949	0.73	ppm		94
15) Dibenzofuran	12.030	168	9381	0.61	ppm		100
16) Fluorene	12.696	166	8516	0.50	ppm		84
18) Hexachlorobenzene	13.795	284	3647	0.64	ppm		89
19) Pentachlorophenol	14.247	266	6544	3.12	ppm		84
20) Phenanthrene	14.604	178	15647	0.68	ppm		98
21) Anthracene	14.699	178	13749	0.65	ppm		91
23) Fluoranthene	16.864	202	16681	0.45	ppm		99
24) Pyrene	17.259	202	16787	0.47	ppm		97
26) Benzo[a]anthracene	19.349	228	14258	0.46	ppm	#	90
27) Chrysene	19.405	228	16074	0.50	ppm		99
29) Benzo[b]fluoranthene	21.010	252	16097	0.44	ppm		97
30) Benzo[k]fluoranthene	21.052	252	15952	0.45	ppm		98
31) Benzo[a]pyrene	21.465	252	13833	0.42	ppm		97
32) Indeno[1,2,3-cd]pyrene	22.993	276	18083	0.47	ppm		93
33) Dibenz[a,h]anthracene	23.021	278	15062	0.47	ppm		93
34) Benzo[g,h,i]perylene	23.379	276	15753	0.47	ppm		97
36) 1,4-Dioxane	2.226	88	2228	0.58	ppm	#	13
37) 1-Methylnaphthalene	9.738	142	7260	0.46	ppm	#	71
39) 4,6-dinitro-2-methylph...	12.907	198	5671	2.32	ppm		77

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66406.D
Acq On : 28 Jun 2016 8:51 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2986
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 13:29:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,2-Diphenylhydrazine	13.051	77	8422	0.53	ppm		95
41) n-nitrosodiphenylamine	13.027	169	6148	0.54	ppm	#	69

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

7.6.42

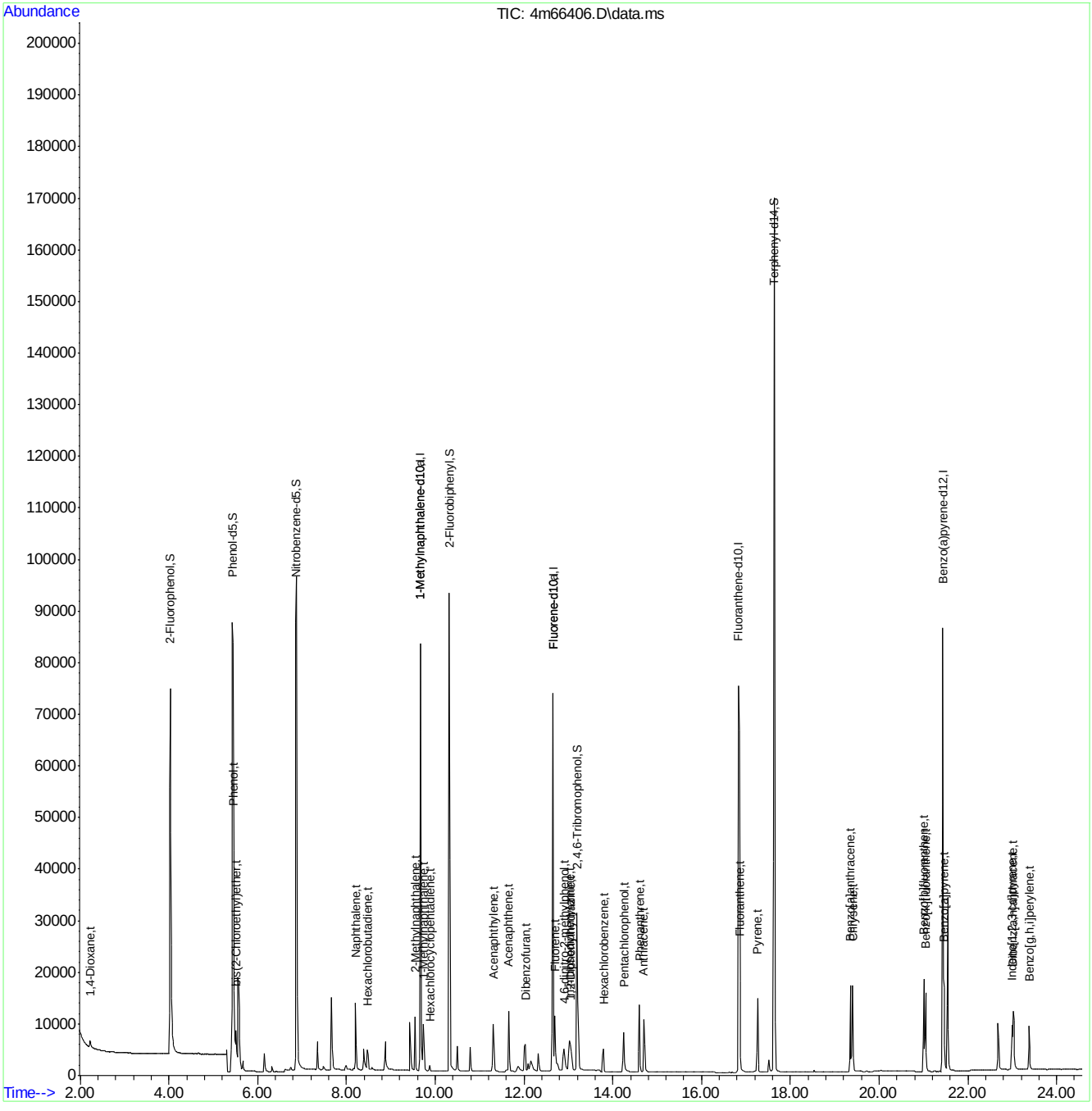
7

SGS ACCUTEST JC22206

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2986\
Data File : 4m66406.D
Acq On : 28 Jun 2016 8:51 am
Operator : linseyk
Sample : cc2974-.5
Misc : op94823a,e4m2986
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 13:29:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66455.D
Acq On : 29 Jun 2016 8:38 am
Operator : linseyk
Sample : cc2974-.5
Misc : op95138a,e4m2988
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 09:05:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	49365	4.00	ppm	-0.12
12) Fluorene-d10	12.629	176	51315	4.00	ppm	#-0.13
22) Fluoranthene-d10	16.826	212	133505	4.00	ppm	-0.11
28) Benzo(a)pyrene-d12	21.423	264	101067	4.00	ppm	-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	49365	4.00	ppm	-0.12
38) Fluorene-d10a	12.629	176	51315	4.00	ppm	#-0.13
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	73232	9.31	ppm	-0.07
Spiked Amount 50.000	Range 11 - 58		Recovery	=	18.62%	
3) Phenol-d5	5.415	99	117576	9.48	ppm	-0.07
Spiked Amount 50.000			Recovery	=	18.96%	
6) Nitrobenzene-d5	6.860	82	109164	9.89	ppm	-0.11
Spiked Amount 50.000			Recovery	=	19.78%	
11) 2-Fluorobiphenyl	10.311	172	191190	9.62	ppm	-0.12
Spiked Amount 50.000			Recovery	=	19.24%	
17) 2,4,6-Tribromophenol	13.194	330	36731	15.36	ppm	-0.12
Spiked Amount 50.000			Recovery	=	30.72%	
25) Terphenyl-d14	17.617	244	180350	9.57	ppm	-0.13
Spiked Amount 50.000			Recovery	=	19.14%	
Target Compounds						Qvalue
4) Phenol	5.442	94	31543	2.35	ppm	87
5) bis(2-Chloroethyl)ether	5.511	93	4547	0.48	ppm #	69
7) Naphthalene	8.206	128	15891	0.46	ppm	96
8) Hexachlorobutadiene	8.469	225	2771	0.47	ppm	84
9) 2-Methylnaphthalene	9.548	142	7602	0.47	ppm	95
10) Hexachlorocyclopentadiene	9.882	237	793	0.95	ppm	99
13) Acenaphthylene	11.290	152	9474	0.70	ppm	99
14) Acenaphthene	11.653	153	6997	0.83	ppm	77
15) Dibenzofuran	12.008	168	10705	0.78	ppm	100
16) Fluorene	12.696	166	8234	0.54	ppm	99
18) Hexachlorobenzene	13.776	284	3862	0.76	ppm	95
19) Pentachlorophenol	14.228	266	5978	3.20	ppm	92
20) Phenanthrene	14.586	178	16047	0.78	ppm	96
21) Anthracene	14.699	178	14667	0.78	ppm	97
23) Fluoranthene	16.845	202	16268	0.42	ppm	91
24) Pyrene	17.240	202	17011	0.45	ppm	89
26) Benzo[a]anthracene	19.330	228	13223	0.40	ppm	98
27) Chrysene	19.387	228	13625	0.40	ppm	91
29) Benzo[b]fluoranthene	20.997	252	16536	0.47	ppm	99
30) Benzo[k]fluoranthene	21.038	252	13297	0.39	ppm	99
31) Benzo[a]pyrene	21.451	252	13865	0.44	ppm	98
32) Indeno[1,2,3-cd]pyrene	22.979	276	16795	0.45	ppm	93
33) Dibenz[a,h]anthracene	23.021	278	14063	0.46	ppm	95
34) Benzo[g,h,i]perylene	23.365	276	15121	0.47	ppm	97
36) 1,4-Dioxane	2.216	88	1571	0.42	ppm #	1
37) 1-Methylnaphthalene	9.715	142	6423	0.43	ppm	100
39) 4,6-dinitro-2-methylph...	12.907	198	4629	2.17	ppm	74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66455.D
Acq On : 29 Jun 2016 8:38 am
Operator : linseyk
Sample : cc2974-.5
Misc : op95138a,e4m2988
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 09:05:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.051	77	10279	0.72	ppm	98
41) n-nitrosodiphenylamine	13.003	169	7321	0.73	ppm	90

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

7.6.43

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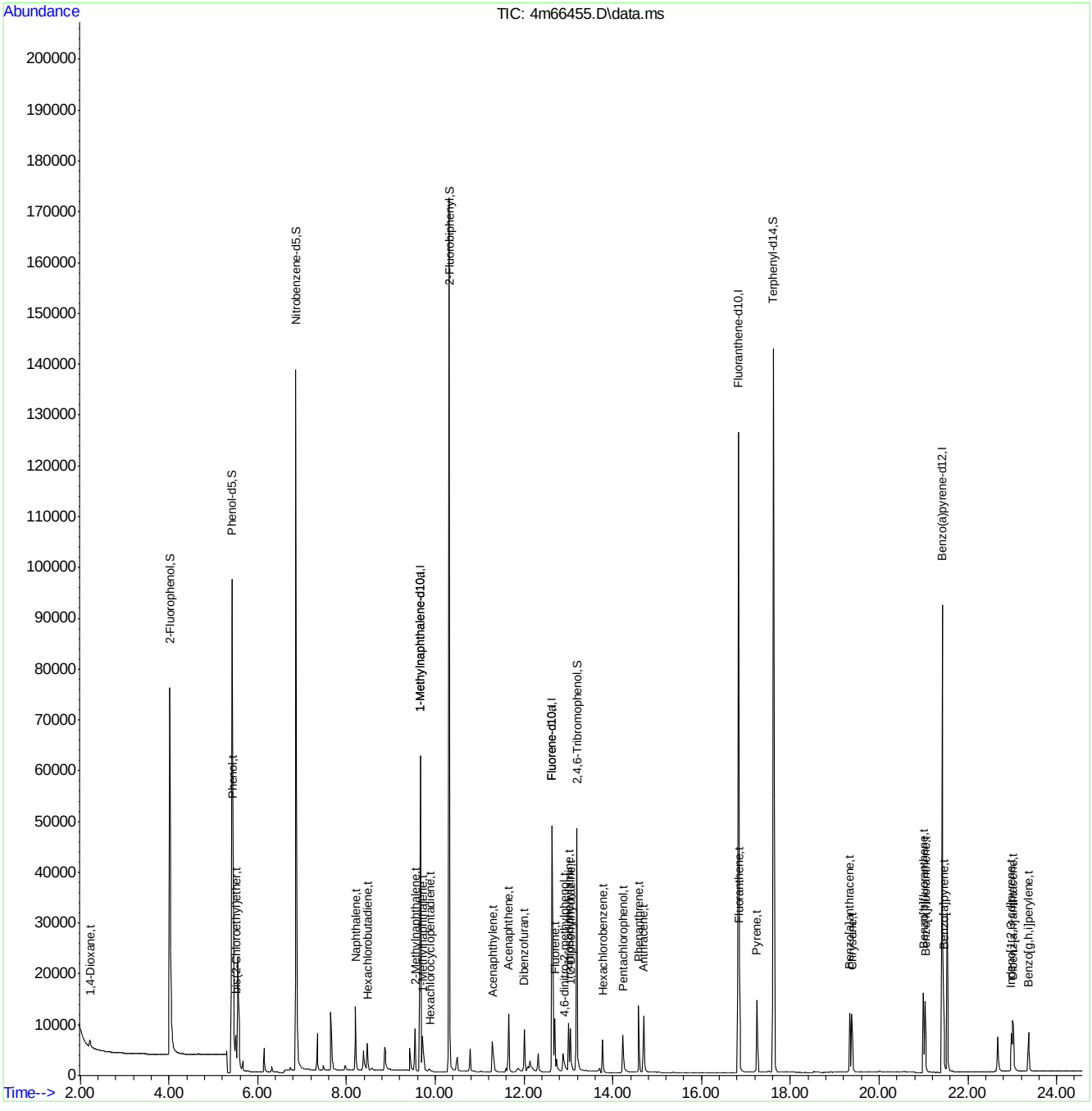
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2988\
Data File : 4m66455.D
Acq On : 29 Jun 2016 8:38 am
Operator : linseyk
Sample : cc2974-.5
Misc : op95138a,e4m2988
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 09:05:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66460.D
Acq On : 29 Jun 2016 11:29 am
Operator : linseyk
Sample : cc2974-1
Misc : op94835a,e4m2989
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 15:46:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.667	152	47318	4.00	ppm		-0.12
12) Fluorene-d10	12.629	176	62392	4.00	ppm		-0.13
22) Fluoranthene-d10	16.826	212	147870	4.00	ppm		-0.11
28) Benzo(a)pyrene-d12	21.424	264	115141	4.00	ppm		-0.10
35) 1-Methylnaphthalene-d10a	9.667	152	47318	4.00	ppm		-0.12
38) Fluorene-d10a	12.629	176	62392	4.00	ppm		#-0.13
System Monitoring Compounds							
2) 2-Fluorophenol	4.006	112	153036	20.30	ppm		-0.08
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.60%				
3) Phenol-d5	5.415	99	243390	20.47	ppm		-0.07
Spiked Amount 50.000			Recovery = 40.94%				
6) Nitrobenzene-d5	6.860	82	215005	20.33	ppm		-0.11
Spiked Amount 50.000			Recovery = 40.66%				
11) 2-Fluorobiphenyl	10.311	172	411573	21.61	ppm		-0.12
Spiked Amount 50.000			Recovery = 43.22%				
17) 2,4,6-Tribromophenol	13.194	330	70847	24.36	ppm		-0.12
Spiked Amount 50.000			Recovery = 48.72%				
25) Terphenyl-d14	17.617	244	397633	19.04	ppm		-0.13
Spiked Amount 50.000			Recovery = 38.08%				
Target Compounds							Qvalue
4) Phenol	5.428	94	64682	5.03	ppm		79
5) bis(2-Chloroethyl)ether	5.497	93	8825	0.97	ppm		76
7) Naphthalene	8.191	128	33204	1.01	ppm		99
8) Hexachlorobutadiene	8.469	225	5773	1.03	ppm		95
9) 2-Methylnaphthalene	9.548	142	13841	0.88	ppm		95
10) Hexachlorocyclopentadiene	9.858	237	3392	2.55	ppm	#	52
13) Acenaphthylene	11.290	152	25455	1.54	ppm		96
14) Acenaphthene	11.653	153	13950	1.36	ppm	#	69
15) Dibenzofuran	12.008	168	24059	1.44	ppm		100
16) Fluorene	12.696	166	16144	0.88	ppm		91
18) Hexachlorobenzene	13.776	284	8318	1.35	ppm		98
19) Pentachlorophenol	14.228	266	16103	7.09	ppm		82
20) Phenanthrene	14.586	178	35859	1.44	ppm		100
21) Anthracene	14.699	178	31756	1.38	ppm		100
23) Fluoranthene	16.845	202	37952	0.88	ppm		94
24) Pyrene	17.241	202	40184	0.95	ppm		93
26) Benzo[a]anthracene	19.330	228	33230	0.91	ppm		94
27) Chrysene	19.387	228	32816	0.86	ppm		94
29) Benzo[b]fluoranthene	20.997	252	35088	0.88	ppm		97
30) Benzo[k]fluoranthene	21.038	252	34515	0.89	ppm		98
31) Benzo[a]pyrene	21.451	252	29964	0.83	ppm		96
32) Indeno[1,2,3-cd]pyrene	22.979	276	37949	0.90	ppm		97
33) Dibenz[a,h]anthracene	23.007	278	30699	0.88	ppm	#	68
34) Benzo[g,h,i]perylene	23.365	276	33207	0.90	ppm		97
36) 1,4-Dioxane	2.216	88	2816	0.87	ppm	#	32
37) 1-Methylnaphthalene	9.715	142	15786	1.11	ppm		90
39) 4,6-dinitro-2-methylph...	12.884	198	15537	5.18	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66460.D
Acq On : 29 Jun 2016 11:29 am
Operator : linseyk
Sample : cc2974-1
Misc : op94835a,e4m2989
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 15:46:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.051	77	22103	1.28	ppm	95
41) n-nitrosodiphenylamine	13.003	169	18155	1.48	ppm	81

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

7.6.44

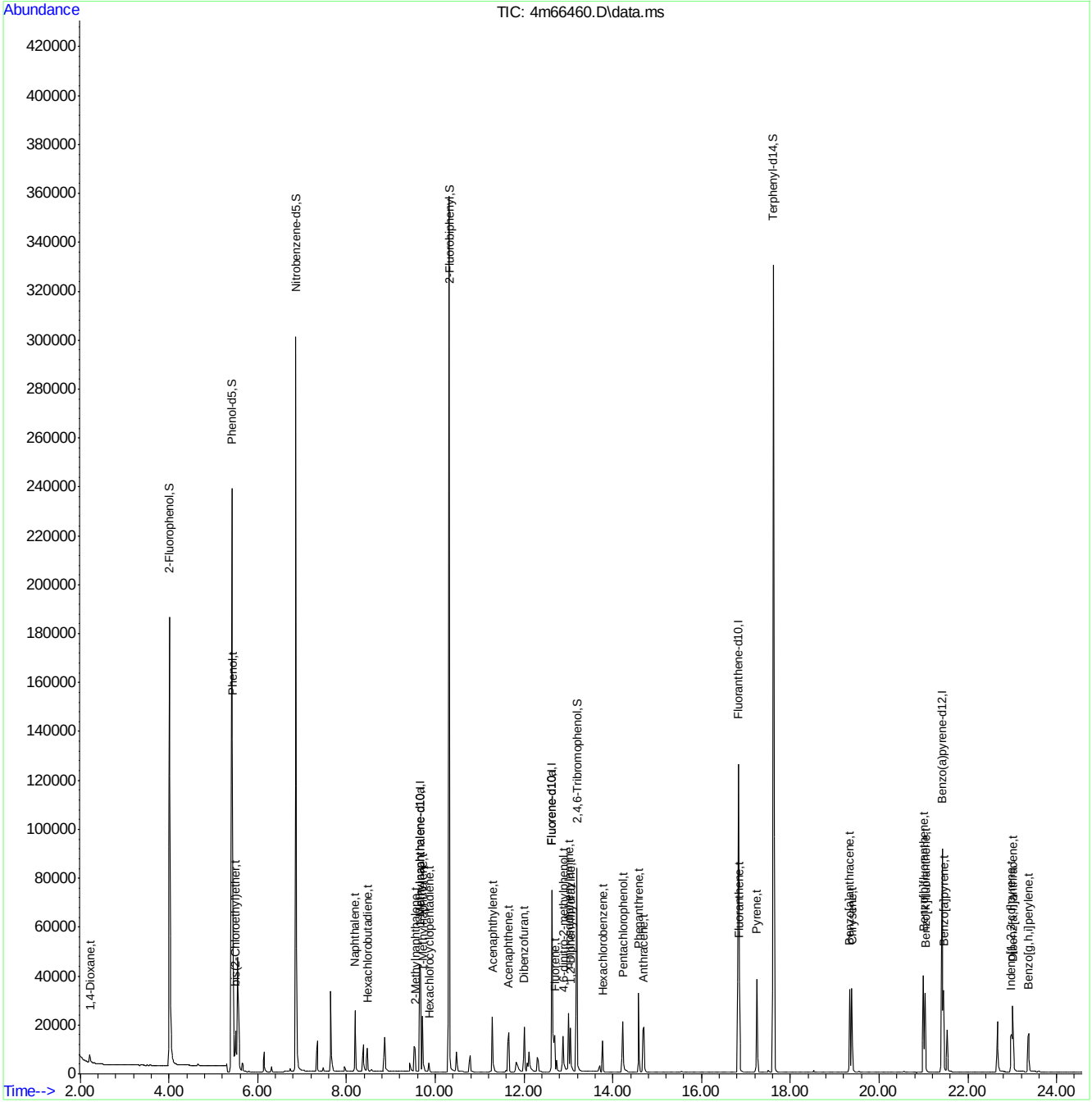
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2989\
Data File : 4m66460.D
Acq On : 29 Jun 2016 11:29 am
Operator : linseyk
Sample : cc2974-1
Misc : op94835a,e4m2989
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 15:46:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66486.D
Acq On : 30 Jun 2016 8:53 am
Operator : linseyk
Sample : cc2974-.5
Misc : op95121a,e4m2990
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 11:17:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.810	152	75885	4.00	ppm		0.02
12) Fluorene-d10	12.788	176	132323	4.00	ppm		0.02
22) Fluoranthene-d10	16.972	212	194117	4.00	ppm		0.03
28) Benzo(a)pyrene-d12	21.570	264	160785	4.00	ppm		0.05
35) 1-Methylnaphthalene-d10a	9.810	152	75885	4.00	ppm	#	0.02
38) Fluorene-d10a	12.788	176	132323	4.00	ppm		0.02
System Monitoring Compounds							
2) 2-Fluorophenol	4.162	112	97307	8.05	ppm		0.07
Spiked Amount 50.000	Range 11 - 58		Recovery	=	16.10%		
3) Phenol-d5	5.580	99	155700	8.17	ppm		0.10
Spiked Amount 50.000			Recovery	=	16.34%		
6) Nitrobenzene-d5	7.015	82	138671	8.18	ppm		0.05
Spiked Amount 50.000			Recovery	=	16.36%		
11) 2-Fluorobiphenyl	10.454	172	218356	7.15	ppm		0.02
Spiked Amount 50.000			Recovery	=	14.30%		
17) 2,4,6-Tribromophenol	13.361	330	50115	8.13	ppm		0.05
Spiked Amount 50.000			Recovery	=	16.26%		
25) Terphenyl-d14	17.762	244	263919	9.63	ppm		0.01
Spiked Amount 50.000			Recovery	=	19.26%		
Target Compounds							Qvalue
4) Phenol	5.607	94	41986	2.03	ppm		95
5) bis(2-Chloroethyl)ether	5.635	93	5289	0.36	ppm		74
7) Naphthalene	8.345	128	21217	0.40	ppm		100
8) Hexachlorobutadiene	8.608	225	3794	0.42	ppm		86
9) 2-Methylnaphthalene	9.691	142	11426	0.46	ppm		85
10) Hexachlorocyclopentadiene	10.025	237	1797	1.19	ppm		99
13) Acenaphthylene	11.453	152	16506	0.47	ppm		91
14) Acenaphthene	11.808	153	9622	0.44	ppm		76
15) Dibenzofuran	12.163	168	14832	0.42	ppm		100
16) Fluorene	12.836	166	16113	0.41	ppm		86
18) Hexachlorobenzene	13.940	284	5371	0.41	ppm		92
19) Pentachlorophenol	14.411	266	6584	1.37	ppm		80
20) Phenanthrene	14.750	178	22788	0.43	ppm		99
21) Anthracene	14.863	178	21529	0.44	ppm		100
23) Fluoranthene	17.009	202	25309	0.45	ppm		99
24) Pyrene	17.405	202	26012	0.47	ppm		99
26) Benzo[a]anthracene	19.495	228	22888	0.48	ppm	#	82
27) Chrysene	19.551	228	23055	0.46	ppm		94
29) Benzo[b]fluoranthene	21.157	252	26229	0.47	ppm		91
30) Benzo[k]fluoranthene	21.184	252	23000	0.43	ppm		96
31) Benzo[a]pyrene	21.611	252	22342	0.44	ppm		93
32) Indeno[1,2,3-cd]pyrene	23.167	276	28365	0.48	ppm		94
33) Dibenz[a,h]anthracene	23.194	278	23868	0.49	ppm		91
34) Benzo[g,h,i]perylene	23.566	276	24547	0.48	ppm		97
36) 1,4-Dioxane	2.320	88	2543	0.45	ppm	#	38
37) 1-Methylnaphthalene	9.882	142	10267	0.45	ppm	#	70
39) 4,6-dinitro-2-methylph...	13.051	198	8241	1.66	ppm		68

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66486.D
Acq On : 30 Jun 2016 8:53 am
Operator : linseyk
Sample : cc2974-.5
Misc : op95121a,e4m2990
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 11:17:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,2-Diphenylhydrazine	13.194	77	12818	0.35	ppm		97
41) n-nitrosodiphenylamine	13.170	169	10409	0.40	ppm	#	71

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

7.6.45

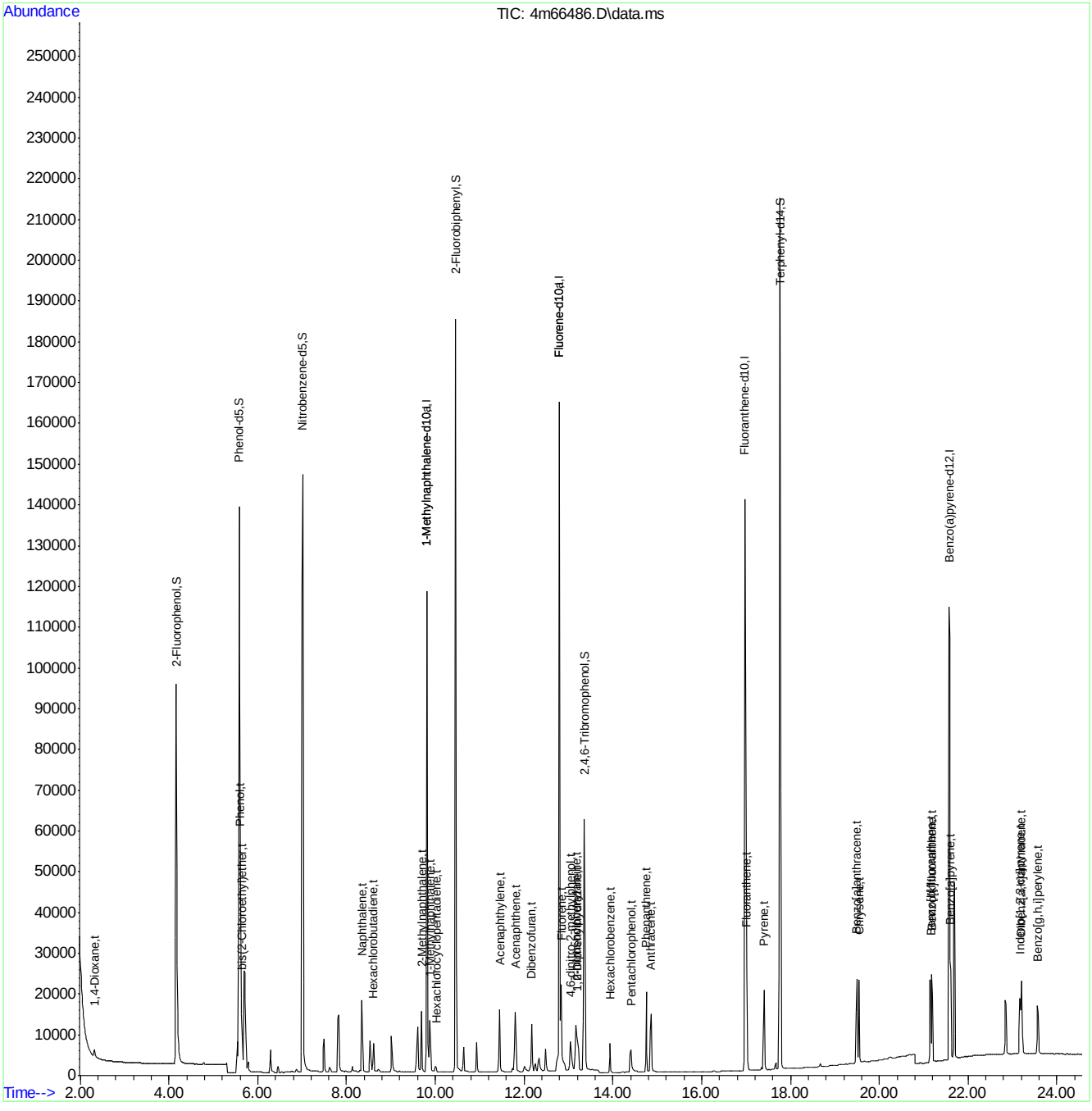
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2990\
Data File : 4m66486.D
Acq On : 30 Jun 2016 8:53 am
Operator : linseyk
Sample : cc2974-.5
Misc : op95121a,e4m2990
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 11:17:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66511.D
Acq On : 30 Jun 2016 10:30 pm
Operator : juliusj
Sample : cc2974-1.0
Misc : op95121a,e4m2991
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 22:55:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.762	152	49474	4.00	ppm		#-0.02
12) Fluorene-d10	12.740	176	80852	4.00	ppm		-0.02
22) Fluoranthene-d10	16.934	212	152968	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	21.542	264	133763	4.00	ppm		0.02
35) 1-Methylnaphthalene-d10a	9.762	152	49474	4.00	ppm		#-0.02
38) Fluorene-d10a	12.740	176	80852	4.00	ppm		#-0.02
System Monitoring Compounds							
2) 2-Fluorophenol	4.111	112	153337	19.45	ppm		0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 38.90%				
3) Phenol-d5	5.539	99	241430	19.42	ppm		0.05
Spiked Amount 50.000			Recovery = 38.84%				
6) Nitrobenzene-d5	6.968	82	212457	19.21	ppm		0.00
Spiked Amount 50.000			Recovery = 38.42%				
11) 2-Fluorobiphenyl	10.431	172	310363	15.59	ppm		0.00
Spiked Amount 50.000			Recovery = 31.18%				
17) 2,4,6-Tribromophenol	13.313	330	84297	22.37	ppm		0.00
Spiked Amount 50.000			Recovery = 44.74%				
25) Terphenyl-d14	17.725	244	401229	18.57	ppm		-0.02
Spiked Amount 50.000			Recovery = 37.14%				
Target Compounds							Qvalue
4) Phenol	5.552	94	63177	4.70	ppm		84
5) bis(2-Chloroethyl)ether	5.607	93	8403	0.89	ppm		74
7) Naphthalene	8.314	128	32507	0.94	ppm		95
8) Hexachlorobutadiene	8.562	225	5654	0.96	ppm		71
9) 2-Methylnaphthalene	9.643	142	15696	0.96	ppm		72
10) Hexachlorocyclopentadiene	9.977	237	3356	2.45	ppm		82
13) Acenaphthylene	11.409	152	26171	1.22	ppm		93
14) Acenaphthene	11.764	153	15422	1.16	ppm		81
15) Dibenzofuran	12.119	168	21187	0.98	ppm	#	100
16) Fluorene	12.788	166	21353	0.89	ppm		71
18) Hexachlorobenzene	13.903	284	7987	1.00	ppm		90
19) Pentachlorophenol	14.355	266	16468	5.59	ppm		90
20) Phenanthrene	14.712	178	34774	1.08	ppm		98
21) Anthracene	14.807	178	33111	1.11	ppm		89
23) Fluoranthene	16.972	202	38535	0.86	ppm		99
24) Pyrene	17.367	202	38994	0.90	ppm		99
26) Benzo[a]anthracene	19.457	228	36525	0.97	ppm	#	83
27) Chrysene	19.514	228	35302	0.90	ppm		96
29) Benzo[b]fluoranthene	21.116	252	40709	0.88	ppm		95
30) Benzo[k]fluoranthene	21.157	252	37028	0.82	ppm		94
31) Benzo[a]pyrene	21.570	252	36412	0.87	ppm		95
32) Indeno[1,2,3-cd]pyrene	23.112	276	46074	0.94	ppm		92
33) Dibenz[a,h]anthracene	23.153	278	38567	0.95	ppm		94
34) Benzo[g,h,i]perylene	23.525	276	39543	0.93	ppm		97
36) 1,4-Dioxane	2.289	88	3514	1.05	ppm	#	19
37) 1-Methylnaphthalene	9.834	142	17218	1.16	ppm	#	78
39) 4,6-dinitro-2-methylph...	13.027	198	11933	3.23	ppm	#	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66511.D
Acq On : 30 Jun 2016 10:30 pm
Operator : juliusj
Sample : cc2974-1.0
Misc : op95121a,e4m2991
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 22:55:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	21455	0.96	ppm	91
41) n-nitrosodiphenylamine	13.122	169	18465	1.16	ppm	80

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

7.6.46

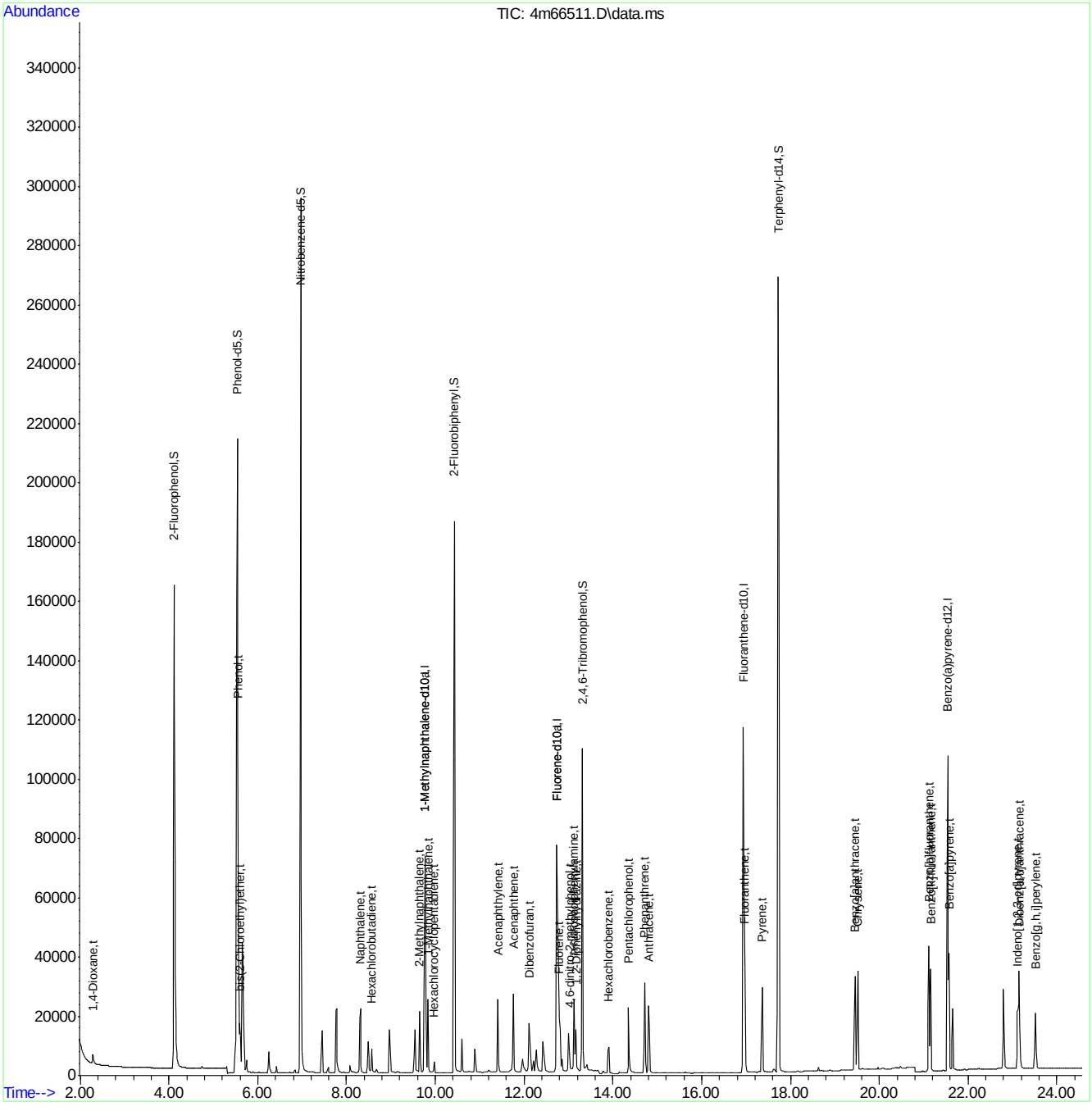
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2991\
Data File : 4m66511.D
Acq On : 30 Jun 2016 10:30 pm
Operator : juliusj
Sample : cc2974-1.0
Misc : op95121a,e4m2991
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 30 22:55:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu Jun 30 09:18:55 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157849.D Vial: 2
Acq On : 9 Jun 2016 8:00 am Operator: brittanp
Sample : ic6644-100 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:07:09 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	157586	40.00	ppm	0.00
24) Naphthalene-d8	5.87	136	663563	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	388792	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	600924	40.00	ppm	0.00
83) Chrysene-d12	14.72	240	483044	40.00	ppm	0.00
92) Perylene-d12	17.79	264	464679	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	157586	40.00	ppm	0.00
112) Naphthalene-d8A	5.87	136	663563	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	388792	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	600924	40.00	ppm	0.00
147) Chrysene-d12A	14.72	240	483044	40.00	ppm	0.00
155) Perylene-d12A	17.79	264	464679	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	157586	40.00	ppm	0.00
161) Naphthalene-d8b	5.87	136	663563	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	388792	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	600924	40.00	ppm	0.00
167) Chrysene-d12b	14.72	240	483044	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	157586	40.00	ppm	0.00
171) Naphthalene-d8c	5.87	136	663563	40.00	ppm	0.00
176) Chrysene-d12c	14.72	240	483044	40.00	ppm	0.00
178) Naphthalene-d8d	5.87	136	663563	40.00	ppm	0.00
180) Chrysene-d12B	14.72	240	483044	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	577788	104.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	208.52%	
8) Phenol-d5	4.66	99	734219	108.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	217.88%	
25) Nitrobenzene-d5	5.34	82	643980	103.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	207.84%	
51) 2-Fluorobiphenyl	6.70	172	1044134	84.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	168.28%	
73) 2,4,6-Tribromophenol	8.30	330	112523	91.76	ppm	0.00
Spiked Amount 50.000			Recovery	=	183.52%	
85) Terphenyl-d14	12.47	244	962572	98.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	196.24%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	268608	110.08	ppm	100
3) Pyridine	2.85	79	735341	127.92	ppm	100
4) N-Nitrosodimethylamine	2.82	42	197743	95.60	ppm	100
6) Indene	5.13	116	961806	103.12	ppm	100
7) Cumene	4.34	105	1314087	104.89	ppm	100
9) Phenol	4.67	94	814211	113.50	ppm	100
10) Aniline	4.70	93	913420	116.34	ppm	100
11) bis(2-Chloroethyl)ether	4.74	93	581637	112.70	ppm	100
12) 2-Chlorophenol	4.78	128	583580	99.75	ppm	100
13) Decane	4.81	43	413386	82.13	ppm	100
14) 1,3-Dichlorobenzene	4.90	146	602675	92.88	ppm	100
15) 1,4-Dichlorobenzene	4.95	146	610738	94.34	ppm	100

(#) = qualifier out of range (m) = manual integration
F157849.D MF6644.M Fri Jun 10 12:09:37 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157849.D Vial: 2
Acq On : 9 Jun 2016 8:00 am Operator: brittanp
Sample : ic6644-100 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:07:09 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	5.04	108	397441	106.53	ppm	100
17)	1,2-Dichlorobenzene	5.07	146	565001	92.83	ppm	99
18)	Acetophenone	5.24	105	770562	109.26	ppm	100
19)	2-Methylphenol	5.11	108	564830	112.72	ppm	100
20)	2,2'-oxybis(1-Chloropropan	5.13	121	183278	98.51	ppm	100
21)	3&4-Methylphenol	5.23	108	575499	111.98	ppm	100
22)	n-Nitroso-di-n-propylamine	5.24	70	422878	111.06	ppm	100
23)	Hexachloroethane	5.31	201	177537	88.53	ppm	100
26)	Nitrobenzene	5.36	77	686414	105.77	ppm	100
27)	Quinoline	6.13	129	1227145	95.69	ppm	100
28)	Isophorone	5.54	82	1162480	104.88	ppm	100
29)	2-Nitrophenol	5.59	139	294881	87.58	ppm	100
30)	2,4-Dimethylphenol	5.61	107	587386	110.75	ppm	100
31)	Benzoic acid	5.70	105	474112	106.93	ppm	100
32)	bis(2-Chloroethoxy)methane	5.68	93	705937	101.05	ppm	100
33)	2,4-Dichlorophenol	5.76	162	450254	85.01	ppm	100
34)	2,6-Dichlorophenol	5.92	162	420499	82.66	ppm	100
35)	1,3,5-Trichlorobenzene	5.59	180	446999	80.17	ppm	100
36)	1,2,4-Trichlorobenzene	5.82	180	454317	82.96	ppm	100
37)	1,2,3-Trichlorobenzene	5.98	180	452678	83.79	ppm	100
38)	Naphthalene	5.88	128	1639659	90.49	ppm	100
39)	4-Chloroaniline	5.91	127	678808	90.73	ppm	100
40)	2,3-Dichloroaniline	6.63	161	511597	82.92	ppm	100
41)	Caprolactam	6.21	55	221573	88.02	ppm	100
42)	Hexachlorobutadiene	5.96	225	205389	79.22	ppm	100
43)	4-Chloro-3-methylphenol	6.27	107	525073	101.06	ppm	100
44)	2-Methylnaphthalene	6.40	141	899431	88.02	ppm	100
45)	1-Methylnaphthalene	6.48	141	941210	89.49	ppm	100
46)	Dimethylnaphthalene	6.94	156	947003	88.87	ppm	100
48)	Hexachlorocyclopentadiene	6.52	237	486794	184.52	ppm	100
49)	2,4,6-Trichlorophenol	6.63	196	270757	82.08	ppm	100
50)	2,4,5-Trichlorophenol	6.66	196	323251	88.99	ppm	100
52)	2-Chloronaphthalene	6.82	162	999737	88.99	ppm	100
53)	Biphenyl	6.80	154	1282090	88.87	ppm	100
54)	2-Nitroaniline	6.90	65	332647	104.48	ppm	100
55)	Dimethylphthalate	7.07	163	1121445	89.20	ppm	100
56)	Acenaphthylene	7.21	152	1643927	90.27	ppm	100
57)	2,6-Dinitrotoluene	7.13	165	269024	99.00	ppm	100
58)	3-Nitroaniline	7.31	138	334872	98.44	ppm	100
59)	Acenaphthene	7.39	153	1011078	88.40	ppm	100
60)	2,4-Dinitrophenol	7.42	184	292694	234.28	ppm	100
61)	4-Nitrophenol	7.46	109	169181	105.87	ppm	100
62)	Dibenzofuran	7.58	168	1361189	87.20	ppm	100
63)	2,4-Dinitrotoluene	7.56	165	370496	100.61	ppm	100
64)	2,3,4,6-Tetrachlorophenol	7.72	232	233829	85.37	ppm	100
65)	Diethylphthalate	7.84	149	1109939	89.33	ppm	100
66)	Fluorene	7.99	166	1053360	87.69	ppm	100
67)	4-Chlorophenyl-phenylether	7.99	204	428133	80.88	ppm	100
68)	4-Nitroaniline	8.02	138	353750	102.97	ppm	100

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157849.D Vial: 2
Acq On : 9 Jun 2016 8:00 am Operator: brittanp
Sample : ic6644-100 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:07:09 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.05	198	212185	111.78	ppm	100
71)	n-Nitrosodiphenylamine	8.14	169	769412	89.46	ppm	100
72)	1,2-Diphenylhydrazine	8.20	77	1327107	111.65	ppm	100
74)	4-Bromophenyl-phenylether	8.66	248	248685	86.03	ppm	100
75)	Hexachlorobenzene	8.74	284	248579	90.09	ppm	100
76)	Pentachlorophenol	9.03	266	350352	192.74	ppm	100
77)	Phenanthrene	9.38	178	1589385	91.93	ppm	100
78)	Anthracene	9.47	178	1623222	93.79	ppm	100
79)	Carbazole	9.75	167	1551501	95.63	ppm	100
80)	Di-n-butylphthalate	10.47	149	1914679	94.49	ppm	100
81)	Fluoranthene	11.59	202	1541377	89.91	ppm	100
82)	Octadecane	9.22	57	627454	89.20	ppm	100
84)	Pyrene	12.05	202	1638799	95.66	ppm	88
86)	Butylbenzylphthalate	13.66	149	842278	100.10	ppm	100
88)	Benzo[a]anthracene	14.70	228	1399145	95.63	ppm	100
89)	3,3'-Dichlorobenzidine	14.74	252	527494	103.50	ppm	100
90)	Chrysene	14.79	228	1444919	99.35	ppm	100
91)	bis(2-Ethylhexyl)phthalate	15.06	149	1169486	100.29	ppm	100
93)	Di-n-octylphthalate	16.53	149	1981771	97.33	ppm	100
94)	Benzo[b]fluoranthene	17.03	252	1431574	99.68	ppm	98
95)	Benzo[k]fluoranthene	17.11	252	1399924	99.60	ppm	99
96)	Benzo[a]pyrene	17.68	252	1296473	98.63	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.75	276	1212066	99.92	ppm	99
98)	Dibenz(a,h)acridine	19.38	279	1064443	102.18	ppm	100
99)	Dibenz[a,h]anthracene	19.80	278	1252542	106.73	ppm	100
100)	7,12-Dimethylbenz(a)anthra	17.06	256	656148	117.01	ppm	100
101)	Benzo[g,h,i]perylene	20.19	276	1310632	99.98	ppm	100

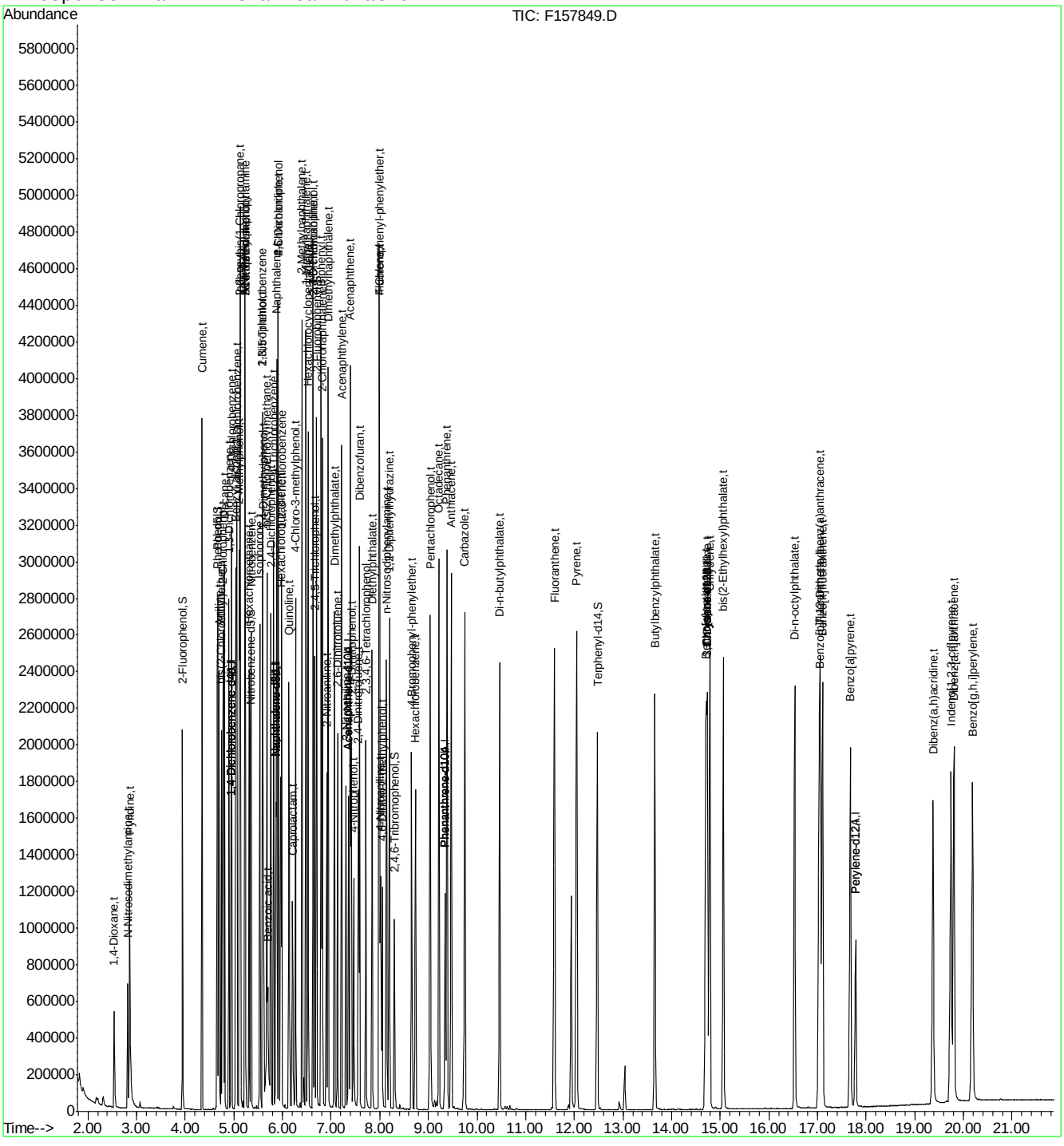
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157849.D Vial: 2
Acq On : 9 Jun 2016 8:00 am Operator: brittanp
Sample : ic6644-100 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:09 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157850.D Vial: 3
Acq On : 9 Jun 2016 9:03 am Operator: brittanp
Sample : ic6644-80 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:09:51 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	168369	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	703239	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	410129	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	627661	40.00	ppm	0.00
83) Chrysene-d12	14.72	240	512222	40.00	ppm	0.00
92) Perylene-d12	17.79	264	486408	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	168369	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	703239	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	410129	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	627661	40.00	ppm	0.00
147) Chrysene-d12A	14.72	240	512222	40.00	ppm	0.00
155) Perylene-d12A	17.79	264	486408	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	168369	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	703239	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	410129	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	627661	40.00	ppm	0.00
167) Chrysene-d12b	14.72	240	512222	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	168369	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	703239	40.00	ppm	0.00
176) Chrysene-d12c	14.72	240	512222	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	703239	40.00	ppm	0.00
180) Chrysene-d12B	14.72	240	512222	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	499523	84.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	168.74%	
8) Phenol-d5	4.66	99	635637	88.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	176.54%	
25) Nitrobenzene-d5	5.34	82	554497	84.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	168.86%	
51) 2-Fluorobiphenyl	6.70	172	923401	70.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	141.08%	
73) 2,4,6-Tribromophenol	8.30	330	96824	75.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	151.18%	
85) Terphenyl-d14	12.47	244	827787	79.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	159.16%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	233179	89.44	ppm	100
3) Pyridine	2.85	79	635277	103.44	ppm	100
4) N-Nitrosodimethylamine	2.82	42	169227	76.58	ppm	100
6) Indene	5.13	116	842289	84.53	ppm	99
7) Cumene	4.34	105	1153922	86.21	ppm	99
9) Phenol	4.67	94	715910	93.40	ppm	94
10) Aniline	4.70	93	799620	95.33	ppm	97
11) bis(2-Chloroethyl)ether	4.74	93	502297	91.09	ppm	96
12) 2-Chlorophenol	4.78	128	511384	81.81	ppm	98
13) Decane	4.81	43	361589	67.24	ppm	98
14) 1,3-Dichlorobenzene	4.89	146	535180	77.20	ppm	98
15) 1,4-Dichlorobenzene	4.95	146	540516	78.14	ppm	99

(#) = qualifier out of range (m) = manual integration
F157850.D MF6644.M Fri Jun 10 12:11:59 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157850.D Vial: 3
Acq On : 9 Jun 2016 9:03 am Operator: brittanp
Sample : ic6644-80 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:09:51 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	5.04	108	344166	86.34	ppm		99
17)	1,2-Dichlorobenzene	5.07	146	501594	77.14	ppm		98
18)	Acetophenone	5.23	105	682514	90.58	ppm		94
19)	2-Methylphenol	5.11	108	492236	91.94	ppm		100
20)	2,2'-oxybis(1-Chloropropan	5.13	121	161305	81.15	ppm		93
21)	3&4-Methylphenol	5.22	108	511748	93.20	ppm		99
22)	n-Nitroso-di-n-propylamine	5.23	70	368553	90.60	ppm		98
23)	Hexachloroethane	5.31	201	154179	71.96	ppm		98
26)	Nitrobenzene	5.36	77	596361	86.71	ppm		98
27)	Quinoline	6.13	129	1054135	77.56	ppm		99
28)	Isophorone	5.53	82	1005337	85.58	ppm		98
29)	2-Nitrophenol	5.59	139	259108	72.62	ppm		94
30)	2,4-Dimethylphenol	5.60	107	506010	90.03	ppm		98
31)	Benzoic acid	5.70	105	400163	85.16	ppm		95
32)	bis(2-Chloroethoxy)methane	5.68	93	610863	82.51	ppm		99
33)	2,4-Dichlorophenol	5.75	162	392485	69.92	ppm		97
34)	2,6-Dichlorophenol	5.92	162	367926	68.24	ppm		99
35)	1,3,5-Trichlorobenzene	5.59	180	392500	66.42	ppm		99
36)	1,2,4-Trichlorobenzene	5.82	180	395393	68.13	ppm		99
37)	1,2,3-Trichlorobenzene	5.98	180	396208	69.20	ppm		98
38)	Naphthalene	5.88	128	1449058	75.46	ppm		99
39)	4-Chloroaniline	5.91	127	600341	75.71	ppm		98
40)	2,3-Dichloroaniline	6.63	161	456641	69.83	ppm		98
41)	Caprolactam	6.20	55	188078	70.50	ppm		97
42)	Hexachlorobutadiene	5.96	225	180309	65.62	ppm		98
43)	4-Chloro-3-methylphenol	6.27	107	453461	82.36	ppm	#	38
44)	2-Methylnaphthalene	6.40	141	796884	73.59	ppm		99
45)	1-Methylnaphthalene	6.48	141	831045	74.56	ppm		98
46)	Dimethylnaphthalene	6.94	156	827742	73.30	ppm		99
48)	Hexachlorocyclopentadiene	6.52	237	424960	152.70	ppm		99
49)	2,4,6-Trichlorophenol	6.63	196	239325	68.78	ppm		99
50)	2,4,5-Trichlorophenol	6.66	196	277996	72.55	ppm		100
52)	2-Chloronaphthalene	6.82	162	878745	74.15	ppm		97
53)	Biphenyl	6.79	154	1118924	73.53	ppm		100
54)	2-Nitroaniline	6.90	65	286796	85.39	ppm		98
55)	Dimethylphthalate	7.07	163	982516	74.08	ppm		99
56)	Acenaphthylene	7.21	152	1454087	75.69	ppm		100
57)	2,6-Dinitrotoluene	7.13	165	231208	80.66	ppm		96
58)	3-Nitroaniline	7.30	138	288461	80.39	ppm		93
59)	Acenaphthene	7.39	153	881413	73.06	ppm		97
60)	2,4-Dinitrophenol	7.42	184	248989	188.93	ppm	#	94
61)	4-Nitrophenol	7.46	109	146033	86.63	ppm		98
62)	Dibenzofuran	7.58	168	1193154	72.46	ppm		99
63)	2,4-Dinitrotoluene	7.55	165	317628	81.77	ppm		93
64)	2,3,4,6-Tetrachlorophenol	7.72	232	204915	70.92	ppm		98
65)	Diethylphthalate	7.84	149	966937	73.78	ppm		99
66)	Fluorene	7.99	166	928652	73.29	ppm		100
67)	4-Chlorophenyl-phenylether	7.99	204	378047	67.71	ppm		97
68)	4-Nitroaniline	8.01	138	302907	83.59	ppm		98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157850.D Vial: 3
Acq On : 9 Jun 2016 9:03 am Operator: brittanp
Sample : ic6644-80 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:09:51 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.05	198	179860	90.71	ppm	98
71)	n-Nitrosodiphenylamine	8.14	169	666350	74.18	ppm	99
72)	1,2-Diphenylhydrazine	8.19	77	1155057	93.04	ppm	98
74)	4-Bromophenyl-phenylether	8.66	248	215762	71.46	ppm	99
75)	Hexachlorobenzene	8.74	284	216776	75.22	ppm	97
76)	Pentachlorophenol	9.03	266	300899	158.48	ppm	99
77)	Phenanthrene	9.38	178	1382023	76.54	ppm	100
78)	Anthracene	9.47	178	1404489	77.70	ppm	99
79)	Carbazole	9.75	167	1354627	79.94	ppm	99
80)	Di-n-butylphthalate	10.46	149	1647742	77.85	ppm	100
81)	Fluoranthene	11.59	202	1331769	74.37	ppm	98
82)	Octadecane	9.22	57	544404	74.10	ppm	99
84)	Pyrene	12.05	202	1421755	78.26	ppm	92
86)	Butylbenzylphthalate	13.66	149	720335	80.73	ppm	99
88)	Benzo[a]anthracene	14.70	228	1205417	77.70	ppm	99
89)	3,3'-Dichlorobenzidine	14.73	252	453619	83.93	ppm	98
90)	Chrysene	14.79	228	1234938	80.07	ppm	100
91)	bis(2-Ethylhexyl)phthalate	15.06	149	1008887	81.59	ppm	100
93)	Di-n-octylphthalate	16.52	149	1695407	79.55	ppm	99
94)	Benzo[b]fluoranthene	17.03	252	1224934	81.48	ppm	97
95)	Benzo[k]fluoranthene	17.10	252	1217257	82.74	ppm	99
96)	Benzo[a]pyrene	17.67	252	1106411	80.41	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.74	276	1052688	82.90	ppm	99
98)	Dibenz(a,h)acridine	19.38	279	924850	84.81	ppm	100
99)	Dibenz[a,h]anthracene	19.80	278	1047953	85.31	ppm	99
100)	7,12-Dimethylbenz(a)anthra	17.05	256	569280	96.98	ppm	98
101)	Benzo[g,h,i]perylene	20.19	276	1133637	82.61	ppm	100

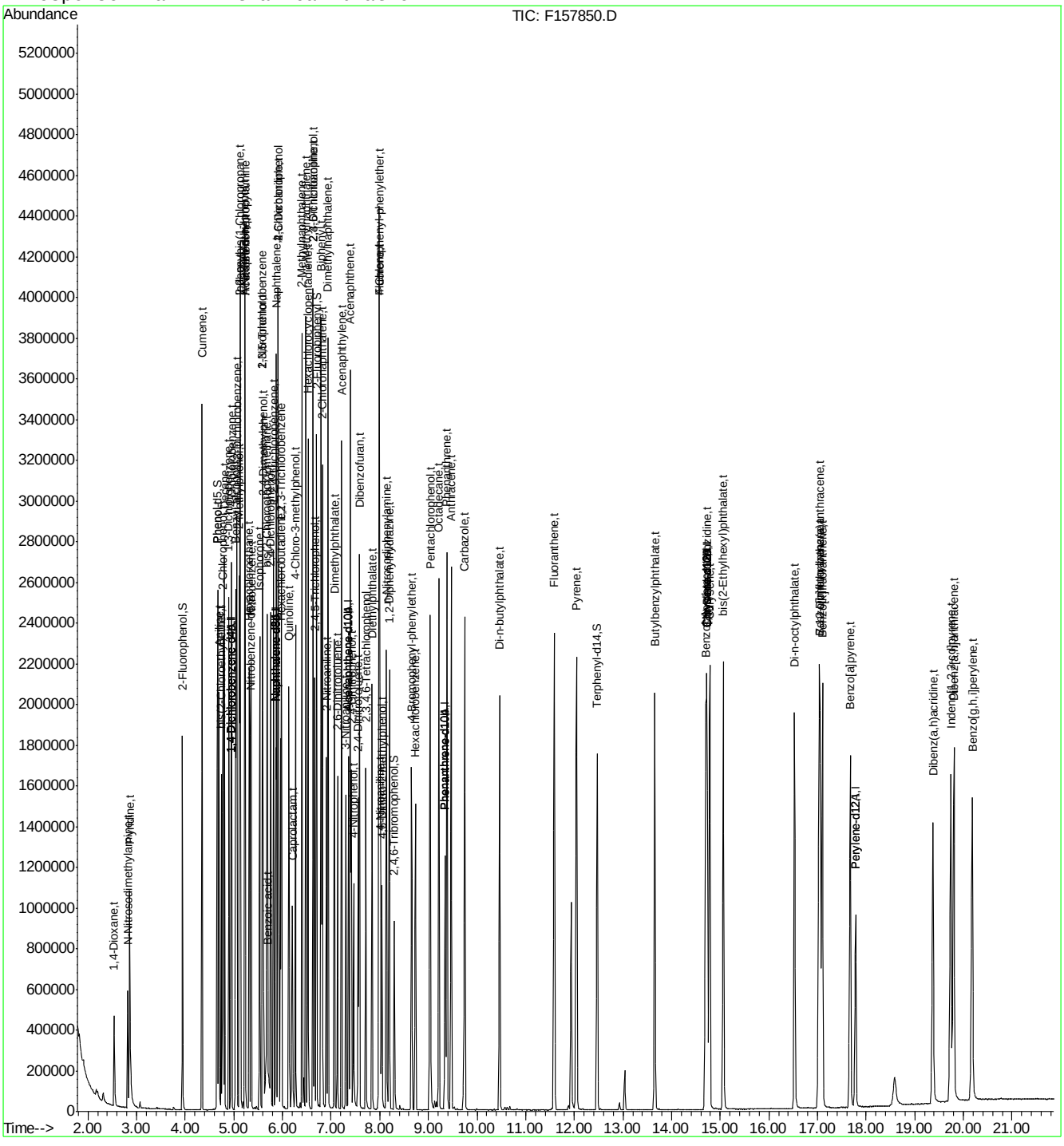
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157850.D Vial: 3
Acq On : 9 Jun 2016 9:03 am Operator: brittanp
Sample : ic6644-80 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:11 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157851.D Vial: 4
Acq On : 9 Jun 2016 10:30 am Operator: brittanp
Sample : ic6644-25 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:12:06 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	158287	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	662512	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	379218	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	584711	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	487641	40.00	ppm	-0.01
92) Perylene-d12	17.78	264	446435	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	158287	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	662512	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	379218	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	584711	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	487641	40.00	ppm	-0.01
155) Perylene-d12A	17.78	264	446435	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	158287	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	662512	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	379218	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	584711	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	487641	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.94	152	158287	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	662512	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	487641	40.00	ppm	-0.01
178) Naphthalene-d8d	5.86	136	662512	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	487641	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	157371	28.27	ppm	0.00
Spiked Amount 50.000			Recovery = 56.54%			
8) Phenol-d5	4.65	99	200440	29.61	ppm	-0.01
Spiked Amount 50.000			Recovery = 59.22%			
25) Nitrobenzene-d5	5.34	82	171994	27.80	ppm	0.00
Spiked Amount 50.000			Recovery = 55.60%			
51) 2-Fluorobiphenyl	6.70	172	299754	24.77	ppm	0.00
Spiked Amount 50.000			Recovery = 49.54%			
73) 2,4,6-Tribromophenol	8.30	330	28783	24.12	ppm	0.00
Spiked Amount 50.000			Recovery = 48.24%			
85) Terphenyl-d14	12.46	244	250016	25.25	ppm	-0.01
Spiked Amount 50.000			Recovery = 50.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	75293	30.72	ppm	98
3) Pyridine	2.86	79	196636	34.06	ppm	98
4) N-Nitrosodimethylamine	2.82	42	51401	24.74	ppm	99
6) Indene	5.12	116	285527	30.48	ppm	99
7) Cumene	4.34	105	383048	30.44	ppm	99
9) Phenol	4.66	94	225523	31.30	ppm	97
10) Aniline	4.69	93	275713	34.96	ppm	94
11) bis(2-Chloroethyl)ether	4.74	93	161439	31.14	ppm	100
12) 2-Chlorophenol	4.78	128	163156	27.76	ppm	92
13) Decane	4.81	43	124850	24.70	ppm	98
14) 1,3-Dichlorobenzene	4.89	146	174479	26.77	ppm	99
15) 1,4-Dichlorobenzene	4.95	146	176402	27.13	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157851.D Vial: 4
Acq On : 9 Jun 2016 10:30 am Operator: brittanp
Sample : ic6644-25 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:12:06 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	5.03	108	108964	29.08	ppm		97
17)	1,2-Dichlorobenzene	5.06	146	164708	26.94	ppm		100
18)	Acetophenone	5.23	105	228472	32.25	ppm		95
19)	2-Methylphenol	5.11	108	157860	31.36	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.13	121	53882	28.83	ppm	#	88
21)	3&4-Methylphenol	5.21	108	166322	32.22	ppm		98
22)	n-Nitroso-di-n-propylamine	5.23	70	123063	32.18	ppm		98
23)	Hexachloroethane	5.31	201	48591	24.12	ppm		94
26)	Nitrobenzene	5.35	77	187000	28.86	ppm		99
27)	Quinoline	6.12	129	332740	25.99	ppm		98
28)	Isophorone	5.52	82	318796	28.81	ppm		99
29)	2-Nitrophenol	5.58	139	80028	23.81	ppm		91
30)	2,4-Dimethylphenol	5.60	107	164243	31.02	ppm		96
31)	Benzoic acid	5.66	105	108763	24.57	ppm		87
32)	bis(2-Chloroethoxy)methane	5.67	93	196280	28.14	ppm		98
33)	2,4-Dichlorophenol	5.75	162	122473	23.16	ppm		98
34)	2,6-Dichlorophenol	5.91	162	122352	24.09	ppm		99
35)	1,3,5-Trichlorobenzene	5.59	180	133457	23.97	ppm		100
36)	1,2,4-Trichlorobenzene	5.82	180	127120	23.25	ppm		98
37)	1,2,3-Trichlorobenzene	5.98	180	126506	23.45	ppm		100
38)	Naphthalene	5.88	128	484763	26.80	ppm		96
39)	4-Chloroaniline	5.91	127	204205	27.34	ppm		98
40)	2,3-Dichloroaniline	6.63	161	152938	24.83	ppm		96
41)	Caprolactam	6.17	55	57939	23.05	ppm		96
42)	Hexachlorobutadiene	5.96	225	58087	22.44	ppm		99
43)	4-Chloro-3-methylphenol	6.26	107	140110	27.01	ppm		99
44)	2-Methylnaphthalene	6.40	141	256343	25.13	ppm		99
45)	1-Methylnaphthalene	6.48	141	269378	25.65	ppm		98
46)	Dimethylnaphthalene	6.94	156	266919	25.09	ppm		97
48)	Hexachlorocyclopentadiene	6.52	237	132601	51.53	ppm		99
49)	2,4,6-Trichlorophenol	6.63	196	76377	23.74	ppm		98
50)	2,4,5-Trichlorophenol	6.66	196	84791	23.93	ppm		98
52)	2-Chloronaphthalene	6.81	162	279831	25.54	ppm		98
53)	Biphenyl	6.79	154	366331	26.03	ppm		99
54)	2-Nitroaniline	6.90	65	86523	27.86	ppm		98
55)	Dimethylphthalate	7.06	163	307958	25.11	ppm		99
56)	Acenaphthylene	7.21	152	456911	25.72	ppm		98
57)	2,6-Dinitrotoluene	7.13	165	67480	25.46	ppm		93
58)	3-Nitroaniline	7.30	138	85160	25.67	ppm		96
59)	Acenaphthene	7.39	153	286492	25.68	ppm		96
60)	2,4-Dinitrophenol	7.41	184	60884	49.96	ppm	#	90
61)	4-Nitrophenol	7.45	109	40830	26.19	ppm		96
62)	Dibenzofuran	7.58	168	386640	25.39	ppm		98
63)	2,4-Dinitrotoluene	7.55	165	94119	26.20	ppm		95
64)	2,3,4,6-Tetrachlorophenol	7.71	232	59981	22.45	ppm		99
65)	Diethylphthalate	7.83	149	299913	24.75	ppm		99
66)	Fluorene	7.99	166	305979	26.12	ppm		99
67)	4-Chlorophenyl-phenylether	7.98	204	127570	24.71	ppm		99
68)	4-Nitroaniline	8.00	138	89895	26.83	ppm		99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157851.D Vial: 4
Acq On : 9 Jun 2016 10:30 am Operator: brittanp
Sample : ic6644-25 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:12:06 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.04	198	46381	25.11	ppm	94
71)	n-Nitrosodiphenylamine	8.13	169	207120	24.75	ppm	100
72)	1,2-Diphenylhydrazine	8.19	77	368670	31.88	ppm	100
74)	4-Bromophenyl-phenylether	8.65	248	67247	23.91	ppm	99
75)	Hexachlorobenzene	8.73	284	70169	26.14	ppm	96
76)	Pentachlorophenol	9.03	266	89160	50.41	ppm	99
77)	Phenanthrene	9.38	178	442439	26.30	ppm	100
78)	Anthracene	9.46	178	448740	26.65	ppm	100
79)	Carbazole	9.74	167	418799	26.53	ppm	100
80)	Di-n-butylphthalate	10.46	149	495042	25.11	ppm	100
81)	Fluoranthene	11.58	202	410340	24.60	ppm	100
82)	Octadecane	9.21	57	178617	26.10	ppm	96
84)	Pyrene	12.04	202	442723	25.60	ppm	91
86)	Butylbenzylphthalate	13.65	149	204368	24.06	ppm	99
88)	Benzo[a]anthracene	14.70	228	360529	24.41	ppm	99
89)	3,3'-Dichlorobenzidine	14.73	252	129853	25.24	ppm	99
90)	Chrysene	14.77	228	380678	25.93	ppm	99
91)	bis(2-Ethylhexyl)phthalate	15.06	149	279302	23.73	ppm	100
93)	Di-n-octylphthalate	16.52	149	442879	22.64	ppm	99
94)	Benzo[b]fluoranthene	17.02	252	369123	26.75	ppm	97
95)	Benzo[k]fluoranthene	17.08	252	364021	26.96	ppm	98
96)	Benzo[a]pyrene	17.66	252	325639	25.78	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.72	276	299742	25.72	ppm	98
98)	Dibenz(a,h)acridine	19.36	279	272459	27.22	ppm	98
99)	Dibenz[a,h]anthracene	19.78	278	306010	27.14	ppm	100
100)	7,12-Dimethylbenz(a)anthra	17.04	256	176120	32.69	ppm	99
101)	Benzo[g,h,i]perylene	20.16	276	334878	26.59	ppm	98

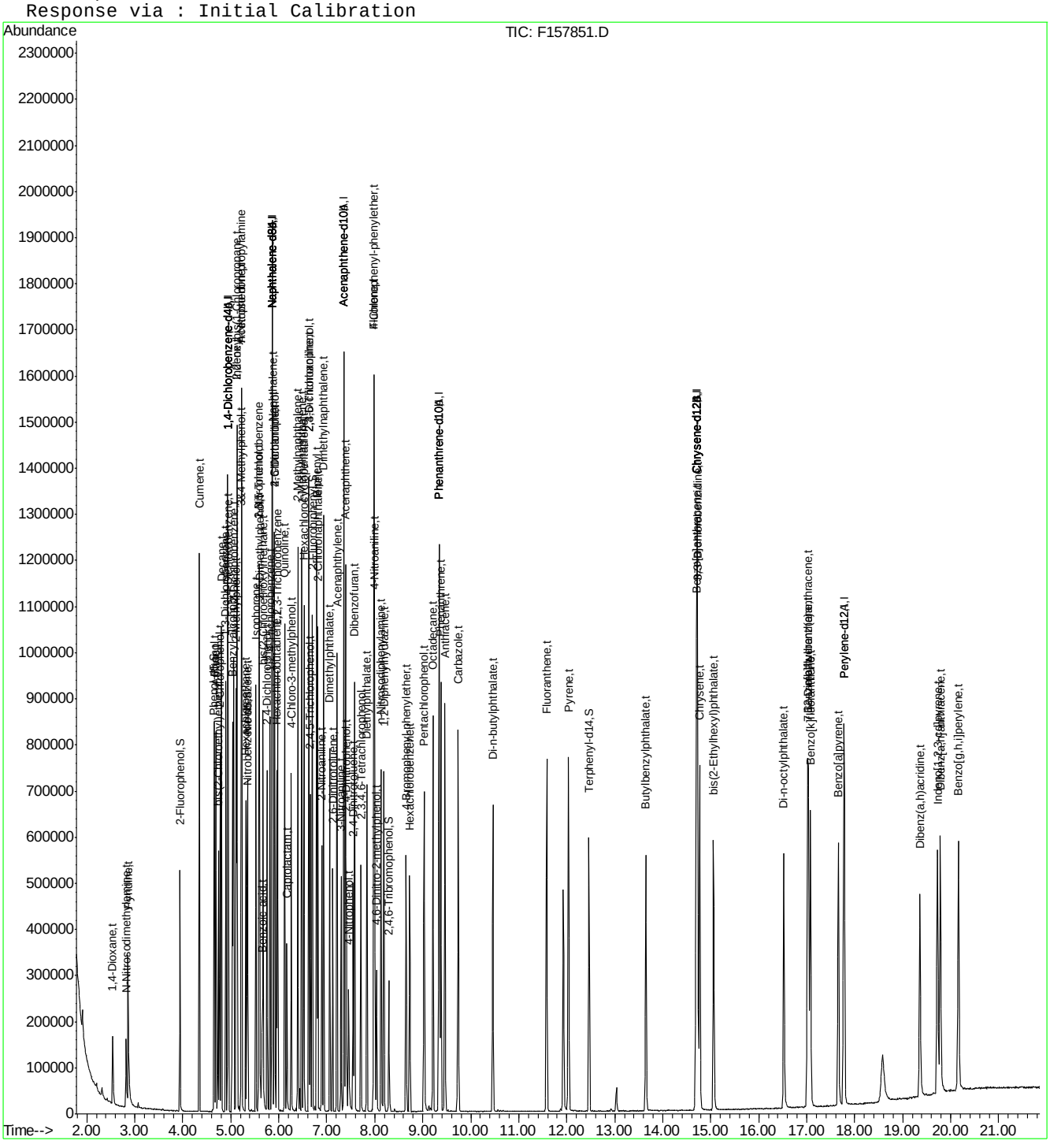
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157851.D Vial: 4
Acq On : 9 Jun 2016 10:30 am Operator: brittanp
Sample : ic6644-25 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:13 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157852.D Vial: 5
Acq On : 9 Jun 2016 10:58 am Operator: brittanp
Sample : icc6644-50 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:14:27 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	158059	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	648027	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	372185	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	574960	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	475880	40.00	ppm	-0.01
92) Perylene-d12	17.77	264	437415	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.94	152	158059	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	648027	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	372185	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	574960	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	475880	40.00	ppm	-0.01
155) Perylene-d12A	17.77	264	437415	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.94	152	158059	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	648027	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	372185	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	574960	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	475880	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.94	152	158059	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	648027	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	475880	40.00	ppm	-0.01
178) Naphthalene-d8d	5.86	136	648027	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	475880	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	301932	54.32	ppm	0.00
Spiked Amount 50.000			Recovery = 108.64%			
8) Phenol-d5	4.65	99	388285	57.44	ppm	0.00
Spiked Amount 50.000			Recovery = 114.88%			
25) Nitrobenzene-d5	5.34	82	332118	54.88	ppm	0.00
Spiked Amount 50.000			Recovery = 109.76%			
51) 2-Fluorobiphenyl	6.70	172	575128	48.41	ppm	0.00
Spiked Amount 50.000			Recovery = 96.82%			
73) 2,4,6-Tribromophenol	8.30	330	56751	48.37	ppm	0.00
Spiked Amount 50.000			Recovery = 96.74%			
85) Terphenyl-d14	12.46	244	495312	51.25	ppm	-0.01
Spiked Amount 50.000			Recovery = 102.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	140147	57.26	ppm	99
3) Pyridine	2.86	79	376599	65.32	ppm	99
4) N-Nitrosodimethylamine	2.82	42	99256	47.84	ppm	97
6) Indene	5.12	116	534862	57.18	ppm	98
7) Cumene	4.34	105	725352	57.73	ppm	99
9) Phenol	4.66	94	431694	60.00	ppm	97
10) Aniline	4.69	93	520028	66.04	ppm	95
11) bis(2-Chloroethyl)ether	4.74	93	310191	59.92	ppm	99
12) 2-Chlorophenol	4.78	128	315048	53.69	ppm	95
13) Decane	4.81	43	228638	45.29	ppm	98
14) 1,3-Dichlorobenzene	4.89	146	332217	51.05	ppm	99
15) 1,4-Dichlorobenzene	4.95	146	337825	52.03	ppm	98

(#) = qualifier out of range (m) = manual integration
F157852.D MF6644.M Fri Jun 10 12:16:25 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157852.D Vial: 5
Acq On : 9 Jun 2016 10:58 am Operator: brittanp
Sample : icc6644-50 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:14:27 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	5.03	108	210994	56.38	ppm	98
17)	1,2-Dichlorobenzene	5.06	146	319511	52.34	ppm	97
18)	Acetophenone	5.23	105	429618	60.73	ppm	99
19)	2-Methylphenol	5.11	108	302559	60.20	ppm	98
20)	2,2'-oxybis(1-Chloropropan	5.13	121	101343	54.31	ppm	87
21)	3&4-Methylphenol	5.22	108	318268	61.75	ppm	97
22)	n-Nitroso-di-n-propylamine	5.23	70	233917	61.25	ppm	97
23)	Hexachloroethane	5.31	201	94723	47.10	ppm	96
26)	Nitrobenzene	5.35	77	356907	56.31	ppm	99
27)	Quinoline	6.12	129	634545	50.67	ppm	99
28)	Isophorone	5.53	82	619398	57.22	ppm	99
29)	2-Nitrophenol	5.58	139	158058	48.07	ppm	82
30)	2,4-Dimethylphenol	5.60	107	317060	61.22	ppm	100
31)	Benzoic acid	5.68	105	224856	51.93	ppm	91
32)	bis(2-Chloroethoxy)methane	5.67	93	371378	54.44	ppm	100
33)	2,4-Dichlorophenol	5.75	162	239633	46.33	ppm	99
34)	2,6-Dichlorophenol	5.91	162	233254	46.95	ppm	99
35)	1,3,5-Trichlorobenzene	5.59	180	251456	46.18	ppm	100
36)	1,2,4-Trichlorobenzene	5.82	180	247041	46.19	ppm	99
37)	1,2,3-Trichlorobenzene	5.98	180	246868	46.79	ppm	100
38)	Naphthalene	5.88	128	907763	51.30	ppm	99
39)	4-Chloroaniline	5.91	127	384939	52.68	ppm	99
40)	2,3-Dichloroaniline	6.63	161	287932	47.79	ppm	96
41)	Caprolactam	6.19	55	112379	45.71	ppm	99
42)	Hexachlorobutadiene	5.96	225	111197	43.92	ppm	99
43)	4-Chloro-3-methylphenol	6.26	107	269879	53.19	ppm	97
44)	2-Methylnaphthalene	6.40	141	493480	49.45	ppm	98
45)	1-Methylnaphthalene	6.48	141	518365	50.47	ppm	98
46)	Dimethylnaphthalene	6.94	156	517475	49.73	ppm	98
48)	Hexachlorocyclopentadiene	6.52	237	258611	102.40	ppm	98
49)	2,4,6-Trichlorophenol	6.63	196	146839	46.50	ppm	100
50)	2,4,5-Trichlorophenol	6.66	196	168190	48.37	ppm	100
52)	2-Chloronaphthalene	6.81	162	539708	50.18	ppm	99
53)	Biphenyl	6.79	154	700634	50.73	ppm	100
54)	2-Nitroaniline	6.90	65	166899	54.76	ppm	98
55)	Dimethylphthalate	7.06	163	590481	49.06	ppm	100
56)	Acenaphthylene	7.21	152	880497	50.51	ppm	99
57)	2,6-Dinitrotoluene	7.13	165	135584	52.12	ppm	98
58)	3-Nitroaniline	7.30	138	170401	52.33	ppm	94
59)	Acenaphthene	7.39	153	546498	49.91	ppm	97
60)	2,4-Dinitrophenol	7.41	184	134808	112.72	ppm	91
61)	4-Nitrophenol	7.46	109	83100	54.32	ppm	97
62)	Dibenzofuran	7.58	168	737955	49.39	ppm	98
63)	2,4-Dinitrotoluene	7.55	165	187682	53.24	ppm	95
64)	2,3,4,6-Tetrachlorophenol	7.71	232	120294	45.88	ppm	99
65)	Diethylphthalate	7.84	149	587365	49.38	ppm	99
66)	Fluorene	7.99	166	583733	50.76	ppm	100
67)	4-Chlorophenyl-phenylether	7.98	204	239100	47.19	ppm	100
68)	4-Nitroaniline	8.00	138	179108	54.46	ppm	99

(#) = qualifier out of range (m) = manual integration
F157852.D MF6644.M Fri Jun 10 12:16:25 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157852.D Vial: 5
Acq On : 9 Jun 2016 10:58 am Operator: brittanp
Sample : icc6644-50 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:14:27 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.04	198	100121	55.13	ppm	99
71)	n-Nitrosodiphenylamine	8.13	169	402360	48.90	ppm	99
72)	1,2-Diphenylhydrazine	8.19	77	699699	61.53	ppm	99
74)	4-Bromophenyl-phenylether	8.65	248	128065	46.30	ppm	99
75)	Hexachlorobenzene	8.73	284	131172	49.69	ppm	98
76)	Pentachlorophenol	9.03	266	177404	102.00	ppm	100
77)	Phenanthrene	9.38	178	850464	51.41	ppm	100
78)	Anthracene	9.46	178	858968	51.88	ppm	99
79)	Carbazole	9.75	167	817929	52.69	ppm	99
80)	Di-n-butylphthalate	10.46	149	974873	50.28	ppm	100
81)	Fluoranthene	11.58	202	802818	48.94	ppm	99
82)	Octadecane	9.21	57	335749	49.89	ppm	99
84)	Pyrene	12.04	202	856755	50.76	ppm	88
86)	Butylbenzylphthalate	13.65	149	422092	50.92	ppm	98
88)	Benzo[a]anthracene	14.70	228	709963	49.26	ppm	99
89)	3,3'-Dichlorobenzidine	14.73	252	260988	51.98	ppm	99
90)	Chrysene	14.77	228	740070	51.65	ppm	99
91)	bis(2-Ethylhexyl)phthalate	15.06	149	579816	50.47	ppm	100
93)	Di-n-octylphthalate	16.52	149	952137	49.68	ppm	99
94)	Benzo[b]fluoranthene	17.02	252	724983	53.63	ppm	98
95)	Benzo[k]fluoranthene	17.09	252	720306	54.44	ppm	99
96)	Benzo[a]pyrene	17.66	252	649855	52.52	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.73	276	596190	52.21	ppm	96
98)	Dibenz(a,h)acridine	19.37	279	529867	54.03	ppm	100
99)	Dibenz[a,h]anthracene	19.79	278	602294	54.52	ppm	99
100)	7,12-Dimethylbenz(a)anthra	17.04	256	345181	65.39	ppm	97
101)	Benzo[g,h,i]perylene	20.17	276	653614	52.97	ppm	96

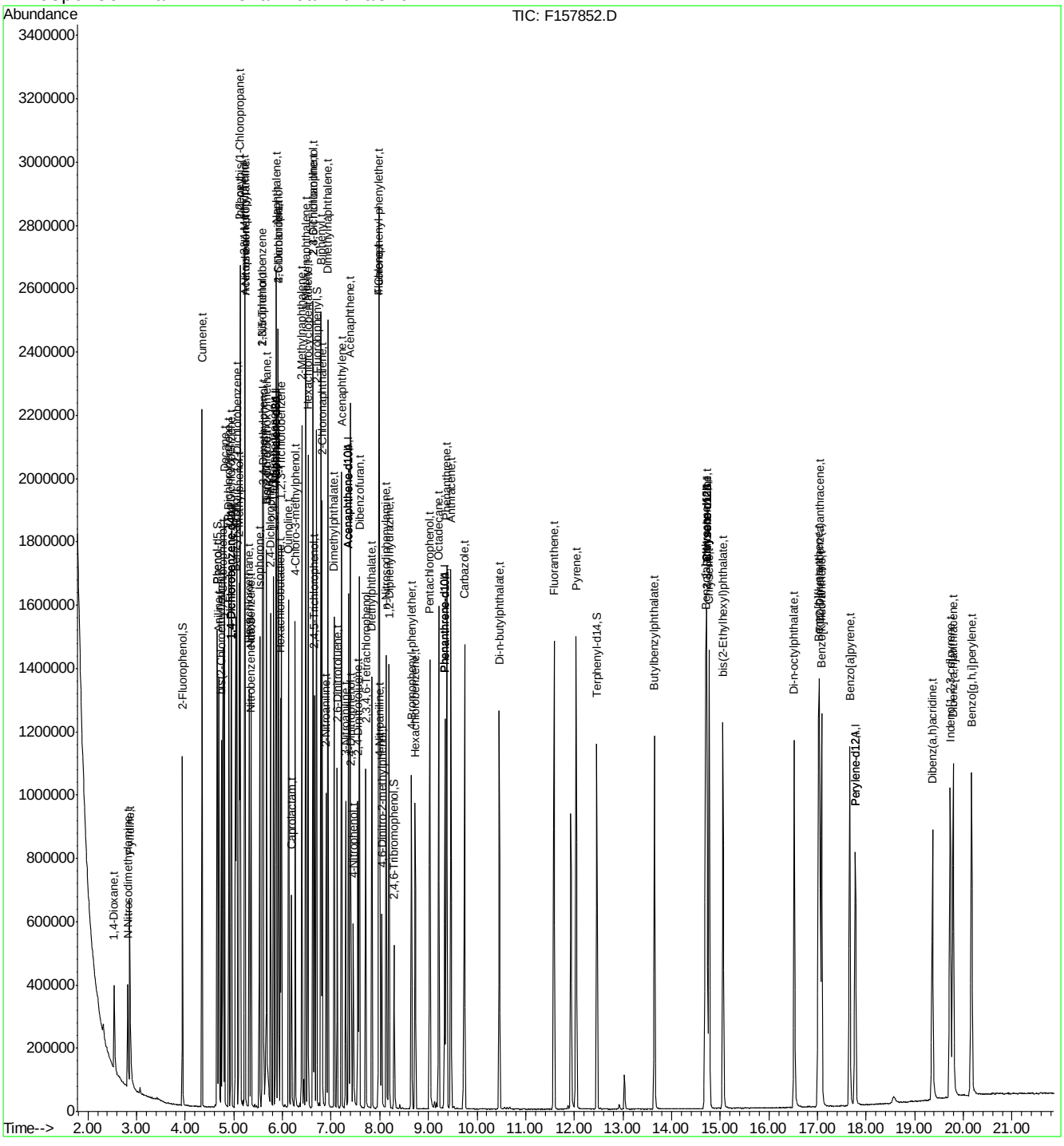
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157852.D Vial: 5
Acq On : 9 Jun 2016 10:58 am Operator: brittanp
Sample : icc6644-50 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:16 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157853.D Vial: 6
Acq On : 9 Jun 2016 11:27 am Operator: brittanp
Sample : ic6644-10 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:16:31 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	171075	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	698053	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	395954	40.00	ppm	0.00
69) Phenanthrene-d10	9.33	188	604912	40.00	ppm	-0.01
83) Chrysene-d12	14.71	240	508347	40.00	ppm	-0.01
92) Perylene-d12	17.77	264	457691	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.94	152	171075	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	698053	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	395954	40.00	ppm	0.00
132) Phenanthrene-d10A	9.33	188	604912	40.00	ppm	-0.01
147) Chrysene-d12A	14.71	240	508347	40.00	ppm	-0.01
155) Perylene-d12A	17.77	264	457691	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.94	152	171075	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	698053	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	395954	40.00	ppm	0.00
165) Phenanthrene-d10b	9.33	188	604912	40.00	ppm	-0.01
167) Chrysene-d12b	14.71	240	508347	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.94	152	171075	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	698053	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	508347	40.00	ppm	-0.01
178) Naphthalene-d8d	5.86	136	698053	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	508347	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	64446	10.71	ppm	0.00
Spiked Amount 50.000			Recovery = 21.42%			
8) Phenol-d5	4.65	99	83095	11.36	ppm	-0.01
Spiked Amount 50.000			Recovery = 22.72%			
25) Nitrobenzene-d5	5.34	82	71214	10.92	ppm	0.00
Spiked Amount 50.000			Recovery = 21.84%			
51) 2-Fluorobiphenyl	6.69	172	128575	10.17	ppm	0.00
Spiked Amount 50.000			Recovery = 20.34%			
73) 2,4,6-Tribromophenol	8.29	330	10926	8.85	ppm	-0.01
Spiked Amount 50.000			Recovery = 17.70%			
85) Terphenyl-d14	12.46	244	101581	9.84	ppm	-0.02
Spiked Amount 50.000			Recovery = 19.68%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	31319	11.82	ppm	98
3) Pyridine	2.86	79	74205	11.89	ppm	98
4) N-Nitrosodimethylamine	2.82	42	18862	8.40	ppm	93
6) Indene	5.12	116	123759	12.22	ppm	99
7) Cumene	4.34	105	165032	12.13	ppm	98
9) Phenol	4.66	94	95384	12.25	ppm	99
10) Aniline	4.69	93	113533	13.32	ppm	76
11) bis(2-Chloroethyl)ether	4.74	93	67660	12.08	ppm	99
12) 2-Chlorophenol	4.78	128	69318	10.91	ppm	98
13) Decane	4.81	43	54716	10.01	ppm	98
14) 1,3-Dichlorobenzene	4.89	146	75579	10.73	ppm	98
15) 1,4-Dichlorobenzene	4.95	146	77143	10.98	ppm	100

(#) = qualifier out of range (m) = manual integration
F157853.D MF6644.M Fri Jun 10 12:18:17 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157853.D Vial: 6
Acq On : 9 Jun 2016 11:27 am Operator: brittanp
Sample : ic6644-10 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:16:31 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	5.03	108	43940	10.85	ppm		95
17)	1,2-Dichlorobenzene	5.06	146	73020	11.05	ppm		99
18)	Acetophenone	5.23	105	98788	12.90	ppm		99
19)	2-Methylphenol	5.11	108	65694	12.08	ppm		97
20)	2,2'-oxybis(1-Chloropropan	5.13	121	22895	11.34	ppm	#	85
21)	3&4-Methylphenol	5.21	108	69663	12.49	ppm		100
22)	n-Nitroso-di-n-propylamine	5.22	70	52234	12.64	ppm		93
23)	Hexachloroethane	5.31	201	20703	9.51	ppm		92
26)	Nitrobenzene	5.35	77	78515	11.50	ppm		96
27)	Quinoline	6.12	129	139061	10.31	ppm		99
28)	Isophorone	5.52	82	133051	11.41	ppm		98
29)	2-Nitrophenol	5.58	139	32056	9.05	ppm		94
30)	2,4-Dimethylphenol	5.60	107	65747	11.78	ppm		99
31)	Benzoic acid	5.64	105	33545	7.19	ppm		91
32)	bis(2-Chloroethoxy)methane	5.67	93	82644	11.25	ppm		99
33)	2,4-Dichlorophenol	5.75	162	49622	8.91	ppm		99
34)	2,6-Dichlorophenol	5.91	162	50922	9.52	ppm		100
35)	1,3,5-Trichlorobenzene	5.59	180	58254	9.93	ppm		99
36)	1,2,4-Trichlorobenzene	5.82	180	54995	9.55	ppm		99
37)	1,2,3-Trichlorobenzene	5.98	180	55424	9.75	ppm		99
38)	Naphthalene	5.88	128	207705	10.90	ppm		98
39)	4-Chloroaniline	5.91	127	85706	10.89	ppm		98
40)	2,3-Dichloroaniline	6.63	161	65092	10.03	ppm		98
41)	Caprolactam	6.16	55	23030	8.70	ppm		96
42)	Hexachlorobutadiene	5.96	225	24546	9.00	ppm		97
43)	4-Chloro-3-methylphenol	6.26	107	57289	10.48	ppm		96
44)	2-Methylnaphthalene	6.40	141	109991	10.23	ppm		99
45)	1-Methylnaphthalene	6.48	141	115510	10.44	ppm		99
46)	Dimethylnaphthalene	6.93	156	113752	10.15	ppm		99
48)	Hexachlorocyclopentadiene	6.52	237	50908	18.95	ppm		98
49)	2,4,6-Trichlorophenol	6.63	196	31254	9.30	ppm		100
50)	2,4,5-Trichlorophenol	6.65	196	34792	9.41	ppm		100
52)	2-Chloronaphthalene	6.81	162	119196	10.42	ppm		98
53)	Biphenyl	6.79	154	156976	10.68	ppm		98
54)	2-Nitroaniline	6.89	65	33875	10.45	ppm		97
55)	Dimethylphthalate	7.06	163	129851	10.14	ppm		100
56)	Acenaphthylene	7.21	152	190859	10.29	ppm		98
57)	2,6-Dinitrotoluene	7.12	165	26185	9.46	ppm		96
58)	3-Nitroaniline	7.29	138	33611	9.70	ppm		98
59)	Acenaphthene	7.39	153	121370	10.42	ppm		95
60)	2,4-Dinitrophenol	7.41	184	18139	14.26	ppm		85
61)	4-Nitrophenol	7.46	109	15839	9.73	ppm		90
62)	Dibenzofuran	7.58	168	163833	10.31	ppm		96
63)	2,4-Dinitrotoluene	7.54	165	35791	9.54	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.71	232	23736	8.51	ppm		93
65)	Diethylphthalate	7.83	149	124274	9.82	ppm		99
66)	Fluorene	7.98	166	132135	10.80	ppm		100
67)	4-Chlorophenyl-phenylether	7.98	204	54461	10.10	ppm		94
68)	4-Nitroaniline	7.99	138	35660	10.19	ppm		98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157853.D Vial: 6
Acq On : 9 Jun 2016 11:27 am Operator: brittanp
Sample : ic6644-10 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:16:31 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.03	198	14951	7.82	ppm	95
71)	n-Nitrosodiphenylamine	8.13	169	86186	9.96	ppm	98
72)	1,2-Diphenylhydrazine	8.19	77	154033	12.87	ppm	98
74)	4-Bromophenyl-phenylether	8.65	248	27280	9.37	ppm	97
75)	Hexachlorobenzene	8.72	284	29073	10.47	ppm	97
76)	Pentachlorophenol	9.02	266	32698	17.87	ppm	97
77)	Phenanthrene	9.37	178	188488	10.83	ppm	98
78)	Anthracene	9.46	178	185766	10.66	ppm	99
79)	Carbazole	9.73	167	175012	10.72	ppm	99
80)	Di-n-butylphthalate	10.46	149	194642	9.54	ppm	99
81)	Fluoranthene	11.58	202	168608	9.77	ppm	98
82)	Octadecane	9.21	57	72960	10.30	ppm	98
84)	Pyrene	12.03	202	183279	10.17	ppm	90
86)	Butylbenzylphthalate	13.65	149	75780	8.56	ppm	99
88)	Benzo[a]anthracene	14.69	228	145192	9.43	ppm	99
89)	3,3'-Dichlorobenzidine	14.72	252	49719	9.27	ppm	99
90)	Chrysene	14.77	228	158254	10.34	ppm	99
91)	bis(2-Ethylhexyl)phthalate	15.06	149	99907	8.14	ppm	99
93)	Di-n-octylphthalate	16.52	149	148120	7.39	ppm	99
94)	Benzo[b]fluoranthene	17.01	252	148535	10.50	ppm	99
95)	Benzo[k]fluoranthene	17.07	252	146979	10.62	ppm	99
96)	Benzo[a]pyrene	17.65	252	123741	9.56	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.71	276	114916	9.62	ppm	98
98)	Dibenz(a,h)acridine	19.36	279	102835	10.02	ppm	100
99)	Dibenz[a,h]anthracene	19.78	278	117656	10.18	ppm	96
100)	7,12-Dimethylbenz(a)anthra	17.03	256	65021	11.77	ppm	97
101)	Benzo[g,h,i]perylene	20.15	276	130018	10.07	ppm	99

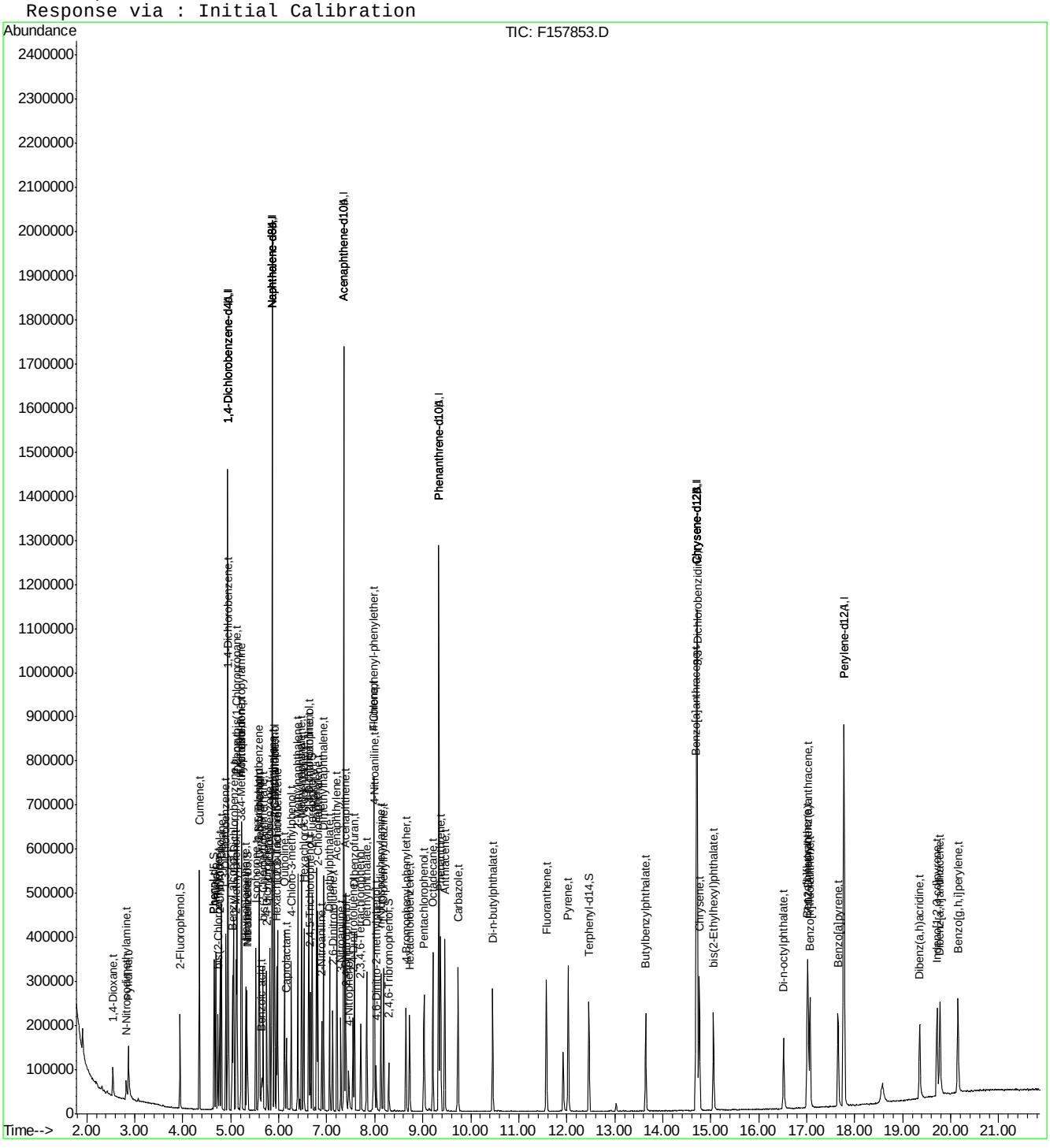
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157853.D Vial: 6
Acq On : 9 Jun 2016 11:27 am Operator: brittanp
Sample : ic6644-10 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:18 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157854.D Vial: 7
Acq On : 9 Jun 2016 11:56 am Operator: brittanp
Sample : ic6644-5 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:18:26 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	174031	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	715684	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	409196	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	621753	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	517385	40.00	ppm	-0.02
92) Perylene-d12	17.77	264	468926	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.94	152	174031	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	715684	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	409196	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	621753	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	517385	40.00	ppm	-0.02
155) Perylene-d12A	17.77	264	468926	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.94	152	174031	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	715684	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	409196	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	621753	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	517385	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.94	152	174031	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	715684	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	517385	40.00	ppm	-0.02
178) Naphthalene-d8d	5.86	136	715684	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	517385	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	33012	5.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.78%	
8) Phenol-d5	4.65	99	42906	5.76	ppm	-0.01
Spiked Amount 50.000			Recovery	=	11.52%	
25) Nitrobenzene-d5	5.34	82	35979	5.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.76%	
51) 2-Fluorobiphenyl	6.69	172	67773	5.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.38%	
73) 2,4,6-Tribromophenol	8.29	330	5260	4.15	ppm	-0.01
Spiked Amount 50.000			Recovery	=	8.30%	
85) Terphenyl-d14	12.46	244	51476	4.90	ppm	-0.02
Spiked Amount 50.000			Recovery	=	9.80%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	17016	6.31	ppm	97
3) Pyridine	2.87	79	38038	5.99	ppm	97
4) N-Nitrosodimethylamine	2.83	42	8297	3.63	ppm	84
6) Indene	5.12	116	63665	6.18	ppm	98
7) Cumene	4.34	105	87212	6.30	ppm	98
9) Phenol	4.66	94	48405	6.11	ppm	97
10) Aniline	4.69	93	59830	6.90	ppm	64
11) bis(2-Chloroethyl)ether	4.73	93	36632	6.43	ppm	98
12) 2-Chlorophenol	4.78	128	35449	5.49	ppm	98
13) Decane	4.81	43	28465	5.12	ppm	98
14) 1,3-Dichlorobenzene	4.89	146	40517	5.65	ppm	98
15) 1,4-Dichlorobenzene	4.95	146	39373	5.51	ppm	95

(#) = qualifier out of range (m) = manual integration
F157854.D MF6644.M Fri Jun 10 12:20:15 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157854.D Vial: 7
Acq On : 9 Jun 2016 11:56 am Operator: brittanp
Sample : ic6644-5 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:18:26 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	5.03	108	23606	5.73	ppm		96
17) 1,2-Dichlorobenzene	5.06	146	37589	5.59	ppm		99
18) Acetophenone	5.23	105	51747	6.64	ppm		97
19) 2-Methylphenol	5.10	108	33710	6.09	ppm		100
20) 2,2'-oxybis(1-Chloropropan	5.13	121	11825	5.76	ppm	#	84
21) 3&4-Methylphenol	5.21	108	35553	6.26	ppm		99
22) n-Nitroso-di-n-propylamine	5.22	70	27400	6.52	ppm		96
23) Hexachloroethane	5.31	201	10669	4.82	ppm		92
26) Nitrobenzene	5.35	77	40333	5.76	ppm		98
27) Quinoline	6.12	129	72205	5.22	ppm		98
28) Isophorone	5.52	82	68041	5.69	ppm		98
29) 2-Nitrophenol	5.58	139	15178	4.18	ppm		96
30) 2,4-Dimethylphenol	5.60	107	34064	5.96	ppm		96
31) Benzoic acid	5.64	105	14439	3.02	ppm		95
32) bis(2-Chloroethoxy)methane	5.67	93	43851	5.82	ppm		99
33) 2,4-Dichlorophenol	5.75	162	25956	4.54	ppm		96
34) 2,6-Dichlorophenol	5.91	162	26182	4.77	ppm		98
35) 1,3,5-Trichlorobenzene	5.59	180	30222	5.03	ppm		99
36) 1,2,4-Trichlorobenzene	5.81	180	28606	4.84	ppm		97
37) 1,2,3-Trichlorobenzene	5.98	180	28227	4.84	ppm		98
38) Naphthalene	5.88	128	109455	5.60	ppm		100
39) 4-Chloroaniline	5.91	127	44682	5.54	ppm		96
40) 2,3-Dichloroaniline	6.63	161	33883	5.09	ppm		98
41) Caprolactam	6.16	55	11516	4.24	ppm		95
42) Hexachlorobutadiene	5.96	225	13192	4.72	ppm		96
43) 4-Chloro-3-methylphenol	6.26	107	29205	5.21	ppm		96
44) 2-Methylnaphthalene	6.40	141	58015	5.26	ppm		96
45) 1-Methylnaphthalene	6.48	141	60941	5.37	ppm		97
46) Dimethylnaphthalene	6.93	156	58913	5.13	ppm		97
48) Hexachlorocyclopentadiene	6.52	237	24919	8.97	ppm		96
49) 2,4,6-Trichlorophenol	6.62	196	15280	4.40	ppm		99
50) 2,4,5-Trichlorophenol	6.65	196	17099	4.47	ppm		97
52) 2-Chloronaphthalene	6.81	162	61741	5.22	ppm		96
53) Biphenyl	6.79	154	83232	5.48	ppm		97
54) 2-Nitroaniline	6.89	65	16260	4.85	ppm		95
55) Dimethylphthalate	7.06	163	68027	5.14	ppm		99
56) Acenaphthylene	7.21	152	100327	5.23	ppm		97
57) 2,6-Dinitrotoluene	7.12	165	12276	4.29	ppm		98
58) 3-Nitroaniline	7.29	138	16298	4.55	ppm		96
59) Acenaphthene	7.39	153	65153	5.41	ppm		96
60) 2,4-Dinitrophenol	7.41	184	6676	5.08	ppm		79
61) 4-Nitrophenol	7.46	109	7333	4.36	ppm		95
62) Dibenzofuran	7.58	168	86727	5.28	ppm		98
63) 2,4-Dinitrotoluene	7.54	165	17275	4.46	ppm		89
64) 2,3,4,6-Tetrachlorophenol	7.71	232	11418	3.96	ppm		92
65) Diethylphthalate	7.83	149	63777	4.88	ppm		99
66) Fluorene	7.98	166	67977	5.38	ppm		98
67) 4-Chlorophenyl-phenylether	7.98	204	28772	5.16	ppm		93
68) 4-Nitroaniline	7.99	138	16756	4.63	ppm		98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157854.D Vial: 7
Acq On : 9 Jun 2016 11:56 am Operator: brittanp
Sample : ic6644-5 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:18:26 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.03	198	5846	2.98	ppm	94
71)	n-Nitrosodiphenylamine	8.13	169	44676	5.02	ppm	97
72)	1,2-Diphenylhydrazine	8.19	77	79889	6.50	ppm	98
74)	4-Bromophenyl-phenylether	8.65	248	14201	4.75	ppm	96
75)	Hexachlorobenzene	8.72	284	14852	5.20	ppm	96
76)	Pentachlorophenol	9.03	266	14493	7.71	ppm	94
77)	Phenanthrene	9.37	178	98818	5.52	ppm	98
78)	Anthracene	9.46	178	96155	5.37	ppm	99
79)	Carbazole	9.74	167	89043	5.30	ppm	99
80)	Di-n-butylphthalate	10.46	149	95111	4.54	ppm	99
81)	Fluoranthene	11.58	202	84996	4.79	ppm	100
82)	Octadecane	9.21	57	36334	4.99	ppm	97
84)	Pyrene	12.03	202	92859	5.06	ppm	90
86)	Butylbenzylphthalate	13.64	149	34684	3.85	ppm	95
88)	Benzo[a]anthracene	14.69	228	73338	4.68	ppm	98
89)	3,3'-Dichlorobenzidine	14.72	252	22611	4.14	ppm	99
90)	Chrysene	14.76	228	82545	5.30	ppm	99
91)	bis(2-Ethylhexyl)phthalate	15.06	149	43141	3.45	ppm	99
93)	Di-n-octylphthalate	16.52	149	58384	2.84	ppm	97
94)	Benzo[b]fluoranthene	17.01	252	71958	4.97	ppm	99
95)	Benzo[k]fluoranthene	17.07	252	73795	5.20	ppm	97
96)	Benzo[a]pyrene	17.65	252	60577	4.57	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.71	276	54645	4.46	ppm	99
98)	Dibenz(a,h)acridine	19.35	279	47470	4.52	ppm	97
99)	Dibenz[a,h]anthracene	19.77	278	56966	4.81	ppm	98
100)	7,12-Dimethylbenz(a)anthra	17.03	256	30671	5.42	ppm	96
101)	Benzo[g,h,i]perylene	20.15	276	64735	4.89	ppm	100

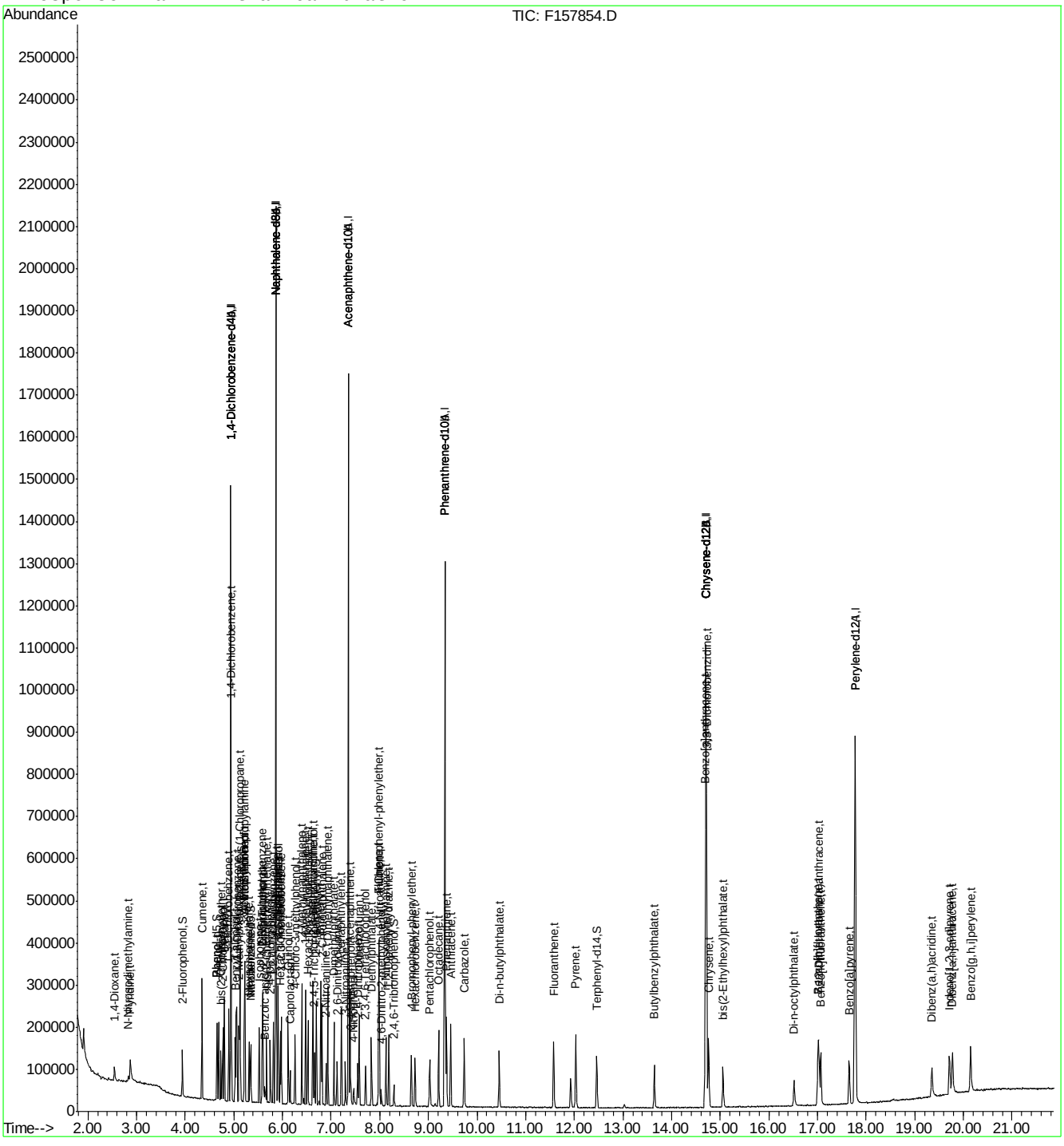
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157854.D Vial: 7
Acq On : 9 Jun 2016 11:56 am Operator: brittanp
Sample : ic6644-5 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:20 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157855.D Vial: 8
Acq On : 9 Jun 2016 12:25 pm Operator: brittanp
Sample : ic6644-2 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:20:22 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	167620	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	688030	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	389483	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	597708	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	500149	40.00	ppm	-0.02
92) Perylene-d12	17.77	264	454054	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.94	152	167620	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	688030	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	389483	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	597708	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	500149	40.00	ppm	-0.02
155) Perylene-d12A	17.77	264	454054	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.94	152	167620	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	688030	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	389483	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	597708	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	500149	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.94	152	167620	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	688030	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	500149	40.00	ppm	-0.02
178) Naphthalene-d8d	5.86	136	688030	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	500149	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	11994	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
8) Phenol-d5	4.65	99	16153	2.25	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.50%	
25) Nitrobenzene-d5	5.34	82	13929	2.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.34%	
51) 2-Fluorobiphenyl	6.69	172	26663	2.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.28%	
73) 2,4,6-Tribromophenol	8.29	330	1680	1.38	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.76%	
85) Terphenyl-d14	12.46	244	19163	1.89	ppm	-0.02
Spiked Amount 50.000			Recovery	=	3.78%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.55	88	6242	2.40	ppm	97
3) Pyridine	2.89	79	14970	2.45	ppm	97
4) N-Nitrosodimethylamine	2.84	42	3035	1.38	ppm #	76
6) Indene	5.12	116	25022	2.52	ppm	98
7) Cumene	4.34	105	34213	2.57	ppm	99
9) Phenol	4.66	94	18405	2.41	ppm	95
10) Aniline	4.69	93	23521	2.82	ppm	67
11) bis(2-Chloroethyl)ether	4.74	93	13657	2.49	ppm	99
12) 2-Chlorophenol	4.78	128	13298	2.14	ppm	92
13) Decane	4.81	43	11159	2.08	ppm	94
14) 1,3-Dichlorobenzene	4.89	146	15430	2.24	ppm	98
15) 1,4-Dichlorobenzene	4.95	146	16203	2.35	ppm	97

(#) = qualifier out of range (m) = manual integration
F157855.D MF6644.M Fri Jun 10 12:22:12 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157855.D Vial: 8
Acq On : 9 Jun 2016 12:25 pm Operator: brittanp
Sample : ic6644-2 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:20:22 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	5.03	108	8646	2.18	ppm		95
17)	1,2-Dichlorobenzene	5.06	146	15182	2.35	ppm		99
18)	Acetophenone	5.23	105	20454	2.73	ppm		98
19)	2-Methylphenol	5.10	108	12529	2.35	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.13	121	4879	2.47	ppm	#	88
21)	3&4-Methylphenol	5.21	108	13415	2.45	ppm		95
22)	n-Nitroso-di-n-propylamine	5.22	70	10292	2.54	ppm		95
23)	Hexachloroethane	5.31	201	3963	1.86	ppm		89
26)	Nitrobenzene	5.35	77	14951	2.22	ppm		96
27)	Quinoline	6.12	129	27737	2.09	ppm		98
28)	Isophorone	5.52	82	25238	2.20	ppm		99
29)	2-Nitrophenol	5.58	139	5000	1.43	ppm		89
30)	2,4-Dimethylphenol	5.60	107	12725	2.31	ppm		96
31)	Benzoic acid	5.63	105	4456	0.97	ppm		85
32)	bis(2-Chloroethoxy)methane	5.67	93	16321	2.25	ppm		97
33)	2,4-Dichlorophenol	5.75	162	9130	1.66	ppm		99
34)	2,6-Dichlorophenol	5.91	162	9634	1.83	ppm		99
35)	1,3,5-Trichlorobenzene	5.59	180	12431	2.15	ppm		98
36)	1,2,4-Trichlorobenzene	5.81	180	11822	2.08	ppm		92
37)	1,2,3-Trichlorobenzene	5.98	180	11601	2.07	ppm		96
38)	Naphthalene	5.88	128	43396	2.31	ppm		100
39)	4-Chloroaniline	5.91	127	17210	2.22	ppm		93
40)	2,3-Dichloroaniline	6.63	161	12802	2.00	ppm		98
41)	Caprolactam	6.15	55	4101	1.57	ppm		95
42)	Hexachlorobutadiene	5.96	225	4993	1.86	ppm		92
43)	4-Chloro-3-methylphenol	6.26	107	10323	1.92	ppm		94
44)	2-Methylnaphthalene	6.40	141	22048	2.08	ppm		97
45)	1-Methylnaphthalene	6.48	141	23462	2.15	ppm		97
46)	Dimethylnaphthalene	6.93	156	23098	2.09	ppm		96
48)	Hexachlorocyclopentadiene	6.52	237	8520	3.22	ppm		95
49)	2,4,6-Trichlorophenol	6.63	196	5683	1.72	ppm		92
50)	2,4,5-Trichlorophenol	6.66	196	5959	1.64	ppm		98
52)	2-Chloronaphthalene	6.81	162	23679	2.10	ppm		97
53)	Biphenyl	6.79	154	32548	2.25	ppm		97
54)	2-Nitroaniline	6.89	65	5301	1.66	ppm		95
55)	Dimethylphthalate	7.06	163	26203	2.08	ppm		100
56)	Acenaphthylene	7.21	152	37344	2.05	ppm		100
57)	2,6-Dinitrotoluene	7.12	165	4024	1.48	ppm		95
58)	3-Nitroaniline	7.29	138	5176	1.52	ppm		95
59)	Acenaphthene	7.39	153	25463	2.22	ppm		97
60)	2,4-Dinitrophenol	7.41	184	1380	1.10	ppm	#	24
61)	4-Nitrophenol	7.47	109	2091	1.31	ppm		96
62)	Dibenzofuran	7.58	168	34592	2.21	ppm		99
63)	2,4-Dinitrotoluene	7.54	165	5043	1.37	ppm		96
64)	2,3,4,6-Tetrachlorophenol	7.71	232	3687	1.34	ppm		98
65)	Diethylphthalate	7.83	149	23818	1.91	ppm		98
66)	Fluorene	7.98	166	26754	2.22	ppm		99
67)	4-Chlorophenyl-phenylether	7.98	204	11041	2.08	ppm		94
68)	4-Nitroaniline	7.99	138	5445	1.58	ppm		91

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157855.D Vial: 8
Acq On : 9 Jun 2016 12:25 pm Operator: brittanp
Sample : ic6644-2 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:20:22 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	8.04	198	1688	0.89	ppm	95
71)	n-Nitrosodiphenylamine	8.13	169	16542	1.93	ppm	95
72)	1,2-Diphenylhydrazine	8.18	77	30223	2.56	ppm	98
74)	4-Bromophenyl-phenylether	8.65	248	5389	1.87	ppm	97
75)	Hexachlorobenzene	8.72	284	5827	2.12	ppm	89
76)	Pentachlorophenol	9.03	266	4088	2.26	ppm	94
77)	Phenanthrene	9.37	178	40441	2.35	ppm	96
78)	Anthracene	9.46	178	36474	2.12	ppm	98
79)	Carbazole	9.74	167	33424	2.07	ppm	98
80)	Di-n-butylphthalate	10.46	149	32511	1.61	ppm	98
81)	Fluoranthene	11.58	202	32373	1.90	ppm	98
82)	Octadecane	9.21	57	12963	1.85	ppm	94
84)	Pyrene	12.03	202	35272	1.99	ppm	88
86)	Butylbenzylphthalate	13.64	149	10627	1.22	ppm	94
88)	Benzo[a]anthracene	14.69	228	28533	1.88	ppm	99
89)	3,3'-Dichlorobenzidine	14.72	252	6755	1.28	ppm	91
90)	Chrysene	14.76	228	31546	2.09	ppm	98
91)	bis(2-Ethylhexyl)phthalate	15.06	149	11242	0.93	ppm	96
93)	Di-n-octylphthalate	16.51	149	14215	0.71	ppm	94
94)	Benzo[b]fluoranthene	17.00	252	25203	1.80	ppm	98
95)	Benzo[k]fluoranthene	17.06	252	27348	1.99	ppm	93
96)	Benzo[a]pyrene	17.65	252	20467	1.59	ppm	93
97)	Indeno[1,2,3-cd]pyrene	19.71	276	18036	1.52	ppm	94
98)	Dibenz(a,h)acridine	19.36	279	15044	1.48	ppm	98
99)	Dibenz[a,h]anthracene	19.78	278	18750	1.64	ppm	99
100)	7,12-Dimethylbenz(a)anthra	17.03	256	10393	1.90	ppm	95
101)	Benzo[g,h,i]perylene	20.15	276	22187	1.73	ppm	95

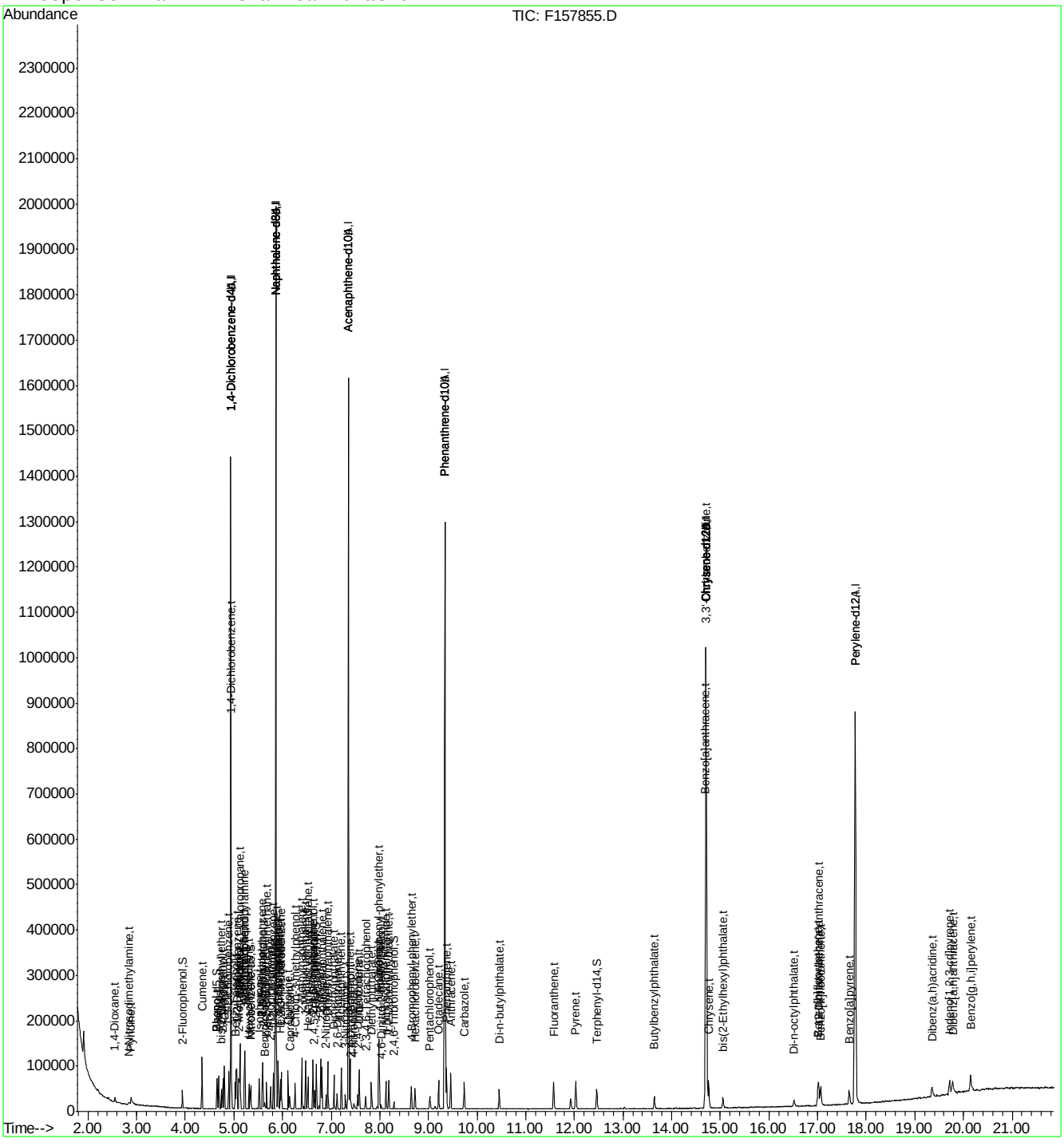
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157855.D Vial: 8
Acq On : 9 Jun 2016 12:25 pm Operator: brittanp
Sample : ic6644-2 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:21 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157856.D Vial: 9
Acq On : 9 Jun 2016 12:53 pm Operator: brittanp
Sample : ic6644-1 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:22:18 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	169234	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	699874	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	395826	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	609595	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	506799	40.00	ppm	-0.01
92) Perylene-d12	17.77	264	457194	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.94	152	169234	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	699874	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	395826	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	609595	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	506799	40.00	ppm	-0.01
155) Perylene-d12A	17.77	264	457194	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.94	152	169234	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	699874	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	395826	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	609595	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	506799	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.94	152	169234	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	699874	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	506799	40.00	ppm	-0.01
178) Naphthalene-d8d	5.86	136	699874	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	506799	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.94	112	5889	0.99	ppm	0.00
Spiked Amount 50.000			Recovery = 1.98%			
8) Phenol-d5	4.65	99	7784	1.08	ppm	-0.01
Spiked Amount 50.000			Recovery = 2.16%			
25) Nitrobenzene-d5	5.34	82	6617	1.01	ppm	0.00
Spiked Amount 50.000			Recovery = 2.02%			
51) 2-Fluorobiphenyl	6.69	172	13602	1.08	ppm	0.00
Spiked Amount 50.000			Recovery = 2.16%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	12.46	244	9574	0.93	ppm	-0.01
Spiked Amount 50.000			Recovery = 1.86%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.55	88	3259	1.24	ppm	91
3) Pyridine	2.90	79	6330	1.03	ppm	98
4) N-Nitrosodimethylamine	2.86	42	1734	0.78	ppm	83
6) Indene	5.12	116	12899	1.29	ppm	99
7) Cumene	4.34	105	17905	1.33	ppm	99
9) Phenol	4.66	94	8895	1.15	ppm	91
10) Aniline	4.69	93	11643	1.38	ppm	66
11) bis(2-Chloroethyl)ether	4.73	93	7467	1.35	ppm	95
12) 2-Chlorophenol	4.78	128	6908	1.10	ppm	96
13) Decane	4.81	43	6084	1.13	ppm	95
14) 1,3-Dichlorobenzene	4.89	146	8099	1.16	ppm	96
15) 1,4-Dichlorobenzene	4.95	146	8428	1.21	ppm	98

(#) = qualifier out of range (m) = manual integration
F157856.D MF6644.M Fri Jun 10 12:24:01 2016 RT1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157856.D Vial: 9
Acq On : 9 Jun 2016 12:53 pm Operator: brittanp
Sample : ic6644-1 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:22:18 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	5.03	108	4206	1.05	ppm		94
17)	1,2-Dichlorobenzene	5.06	146	7794	1.19	ppm		98
18)	Acetophenone	5.23	105	9955	1.31	ppm		97
19)	2-Methylphenol	5.10	108	6023	1.12	ppm		97
20)	2,2'-oxybis(1-Chloropropan	5.13	121	2474	1.24	ppm	#	89
21)	3&4-Methylphenol	5.21	108	6439	1.17	ppm		98
22)	n-Nitroso-di-n-propylamine	5.22	70	4905	1.20	ppm		93
23)	Hexachloroethane	5.31	201	2033	0.94	ppm		91
26)	Nitrobenzene	5.35	77	7784	1.14	ppm		92
27)	Quinoline	6.12	129	14152	1.05	ppm		99
28)	Isophorone	5.52	82	12072	1.03	ppm		96
29)	2-Nitrophenol	5.58	139	2316	0.65	ppm		74
30)	2,4-Dimethylphenol	5.60	107	6313	1.13	ppm		94
31)	Benzoic acid	5.63	105	1882	0.40	ppm		92
32)	bis(2-Chloroethoxy)methane	5.67	93	8589	1.17	ppm		97
33)	2,4-Dichlorophenol	5.75	162	4195	0.75	ppm		99
34)	2,6-Dichlorophenol	5.91	162	4414	0.82	ppm		97
35)	1,3,5-Trichlorobenzene	5.59	180	6318	1.07	ppm		96
36)	1,2,4-Trichlorobenzene	5.82	180	5751	1.00	ppm		97
37)	1,2,3-Trichlorobenzene	5.98	180	5675	1.00	ppm		95
38)	Naphthalene	5.88	128	22792	1.19	ppm		96
39)	4-Chloroaniline	5.91	127	8366	1.06	ppm		95
40)	2,3-Dichloroaniline	6.63	161	6214	0.95	ppm		98
41)	Caprolactam	6.15	55	1775	0.67	ppm		93
42)	Hexachlorobutadiene	5.96	225	2530	0.93	ppm		95
43)	4-Chloro-3-methylphenol	6.26	107	5006	0.91	ppm		95
44)	2-Methylnaphthalene	6.40	141	11526	1.07	ppm		96
45)	1-Methylnaphthalene	6.48	141	12554	1.13	ppm		99
46)	Dimethylnaphthalene	6.93	156	11512	1.02	ppm		97
48)	Hexachlorocyclopentadiene	6.52	237	3636	1.35	ppm		96
49)	2,4,6-Trichlorophenol	6.63	196	2389	0.71	ppm		96
50)	2,4,5-Trichlorophenol	6.66	196	2879	0.78	ppm		86
52)	2-Chloronaphthalene	6.81	162	12621	1.10	ppm		98
53)	Biphenyl	6.79	154	16786	1.14	ppm		98
54)	2-Nitroaniline	6.90	65	2708	0.84	ppm		86
55)	Dimethylphthalate	7.06	163	12758	1.00	ppm		98
56)	Acenaphthylene	7.21	152	18729	1.01	ppm		99
57)	2,6-Dinitrotoluene	7.12	165	1708	0.62	ppm		82
58)	3-Nitroaniline	7.29	138	2423	0.70	ppm		97
59)	Acenaphthene	7.39	153	13090	1.12	ppm		92
62)	Dibenzofuran	7.58	168	17781	1.12	ppm		98
63)	2,4-Dinitrotoluene	7.54	165	2192	0.58	ppm		84
64)	2,3,4,6-Tetrachlorophenol	7.72	232	1465	0.53	ppm		97
65)	Diethylphthalate	7.83	149	11761	0.93	ppm		100
66)	Fluorene	7.98	166	13060	1.07	ppm		98
67)	4-Chlorophenyl-phenylether	7.98	204	5540	1.03	ppm		98
68)	4-Nitroaniline	8.00	138	2209	0.63	ppm		71
71)	n-Nitrosodiphenylamine	8.13	169	8339	0.96	ppm		95
72)	1,2-Diphenylhydrazine	8.19	77	14723	1.22	ppm		97

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157856.D Vial: 9
Acq On : 9 Jun 2016 12:53 pm Operator: brittanp
Sample : ic6644-1 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:22:18 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
74)	4-Bromophenyl-phenylether	8.65	248	2701	0.92 ppm	92
75)	Hexachlorobenzene	8.72	284	3240	1.16 ppm	89
76)	Pentachlorophenol	9.03	266	1400	0.76 ppm	88
77)	Phenanthrene	9.37	178	20643	1.18 ppm	98
78)	Anthracene	9.46	178	17822	1.02 ppm	97
79)	Carbazole	9.74	167	16086	0.98 ppm	99
80)	Di-n-butylphthalate	10.46	149	14778	0.72 ppm	98
81)	Fluoranthene	11.58	202	16253	0.93 ppm	99
82)	Octadecane	9.21	57	6053	0.85 ppm	95
84)	Pyrene	12.03	202	17171	0.96 ppm	92
86)	Butylbenzylphthalate	13.64	149	4362	0.49 ppm	87
88)	Benzo[a]anthracene	14.69	228	15102	0.98 ppm	98
89)	3,3'-Dichlorobenzidine	14.72	252	2829	0.53 ppm	86
90)	Chrysene	14.76	228	16573	1.09 ppm	94
91)	bis(2-Ethylhexyl)phthalate	15.06	149	4290	0.35 ppm	93
93)	Di-n-octylphthalate	16.51	149	6075	0.30 ppm	92
94)	Benzo[b]fluoranthene	17.01	252	11943	0.85 ppm	97
95)	Benzo[k]fluoranthene	17.06	252	12426	0.90 ppm	99
96)	Benzo[a]pyrene	17.65	252	9182	0.71 ppm	96
97)	Indeno[1,2,3-cd]pyrene	19.71	276	8065	0.68 ppm	79
98)	Dibenz(a,h)acridine	19.36	279	6074	0.59 ppm	98
99)	Dibenz[a,h]anthracene	19.77	278	8685	0.75 ppm	92
100)	7,12-Dimethylbenz(a)anthra	17.02	256	4269	0.77 ppm	96
101)	Benzo[g,h,i]perylene	20.15	276	10703	0.83 ppm	93

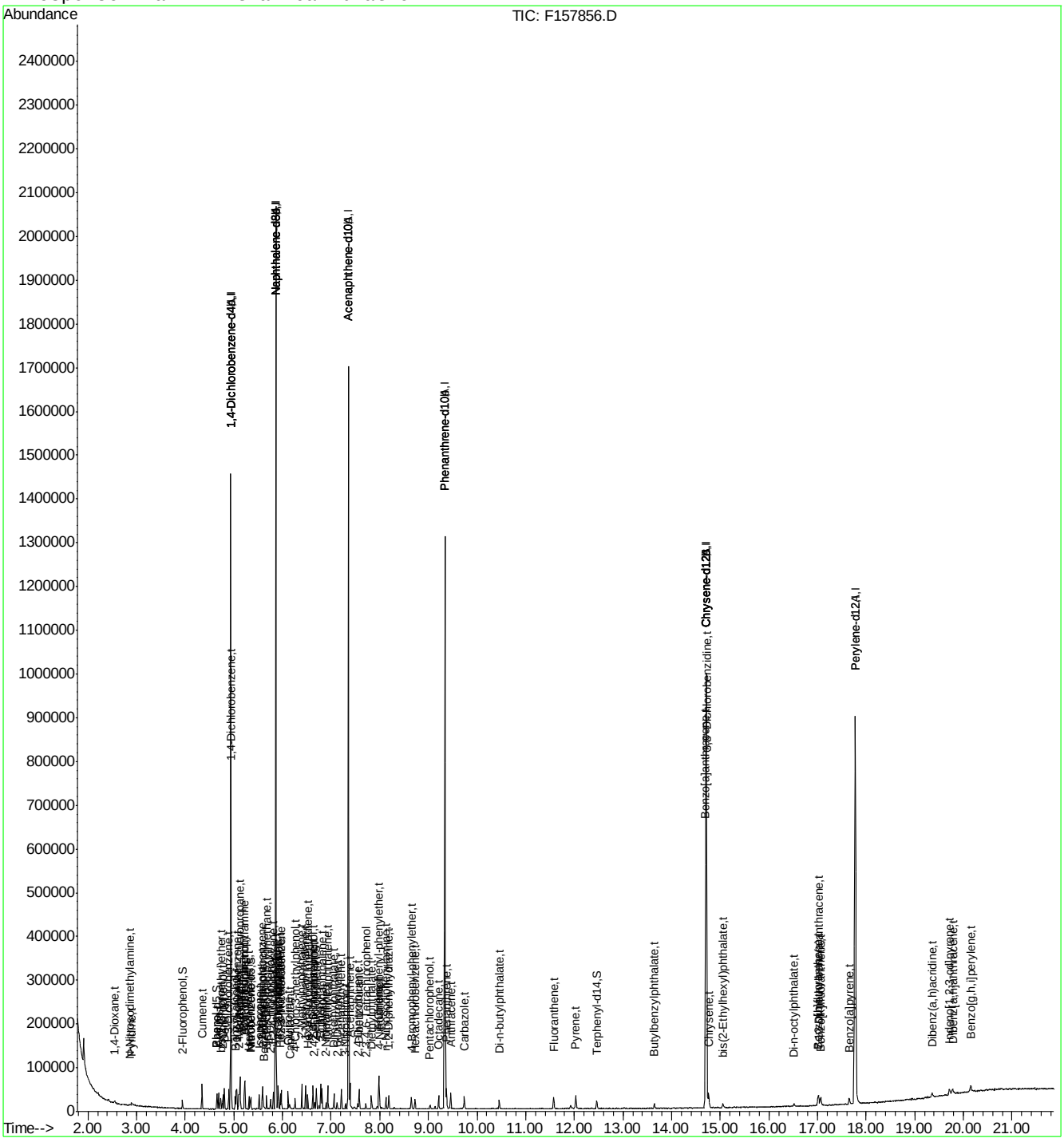
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157856.D Vial: 9
Acq On : 9 Jun 2016 12:53 pm Operator: brittanp
Sample : ic6644-1 Inst : MSF
Misc : op93756,ef6644 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:23 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:07:06 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157858.D Vial: 2
Acq On : 9 Jun 2016 3:03 pm Operator: brittanp
Sample : ic6645-100 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:34:30 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	152028	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	626697	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	355131	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	528322	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	432836	40.00	ppm	0.00
92) Perylene-d12	17.77	264	385300	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	152028	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	626697	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	355131	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	528322	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	432836	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	385300	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	152028	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	626697	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	355131	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	528322	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	432836	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	152028	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	626697	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	432836	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	626697	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	432836	40.00	ppm	-0.01

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%			

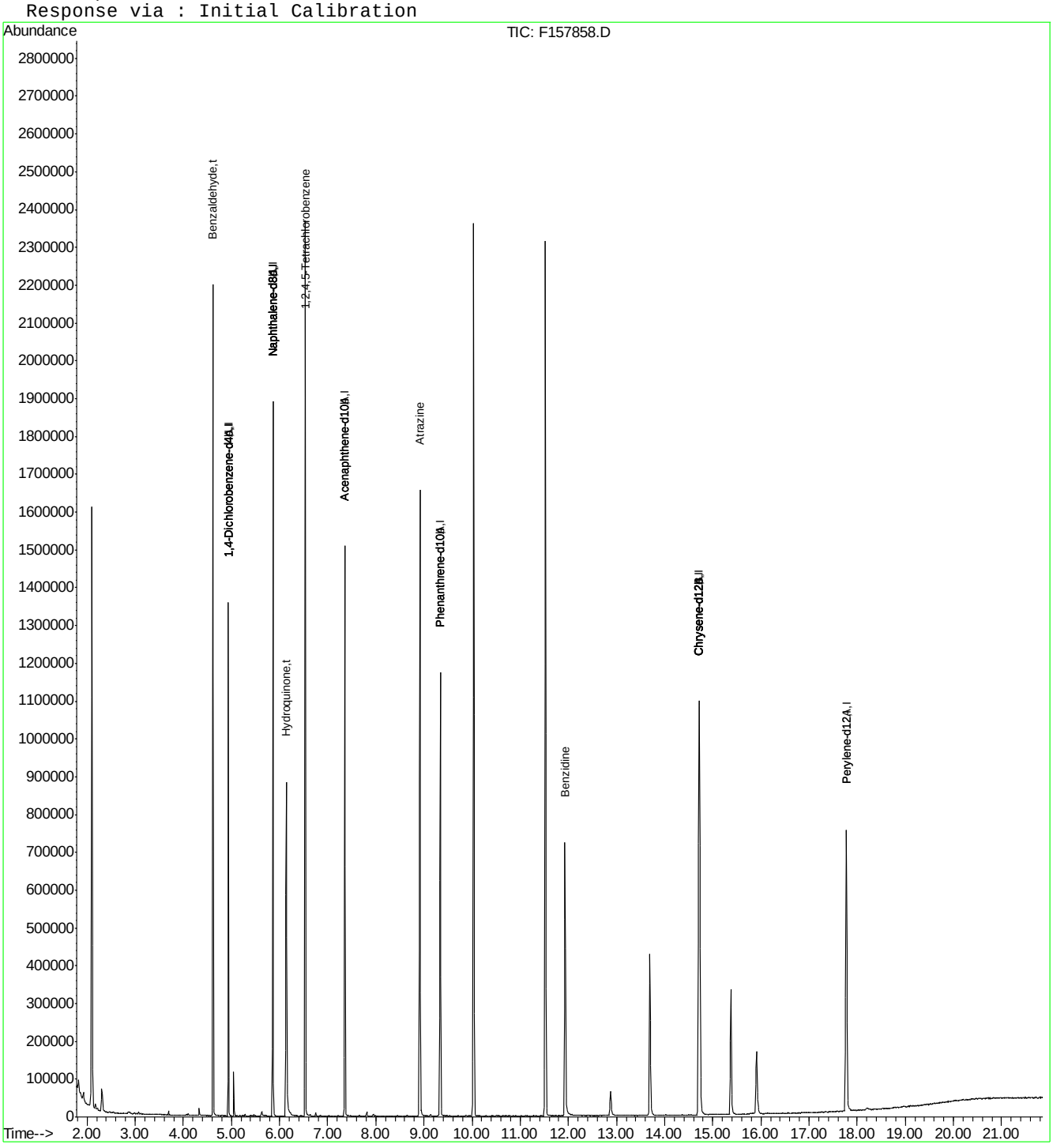
Target Compounds						Qvalue
160) Benzaldehyde	4.62	105	352210	100.00	ppm	100
162) Hydroquinone	6.14	110	563420	100.00	ppm	100
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	344625	100.00	ppm	100
166) Atrazine	8.92	200	226734	99.94	ppm	100
168) Benzidine	11.93	184	391935	98.72	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157858.D MF6644.M Fri Jun 10 12:35:24 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157858.D Vial: 2
Acq On : 9 Jun 2016 3:03 pm Operator: brittanp
Sample : ic6645-100 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:35 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157858.D MF6644.M Fri Jun 10 12:35:24 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157859.D Vial: 3
Acq On : 9 Jun 2016 3:32 pm Operator: brittanp
Sample : ic6645-80 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:35:32 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	163784	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	668595	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	375423	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	570798	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	475506	40.00 ppm	0.00
92) Perylene-d12	17.77	264	421551	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	163784	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	668595	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	375423	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	570798	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	475506	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	421551	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	163784	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	668595	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	375423	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	570798	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	475506	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	163784	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	668595	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	475506	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	668595	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	475506	40.00 ppm	-0.01

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%		

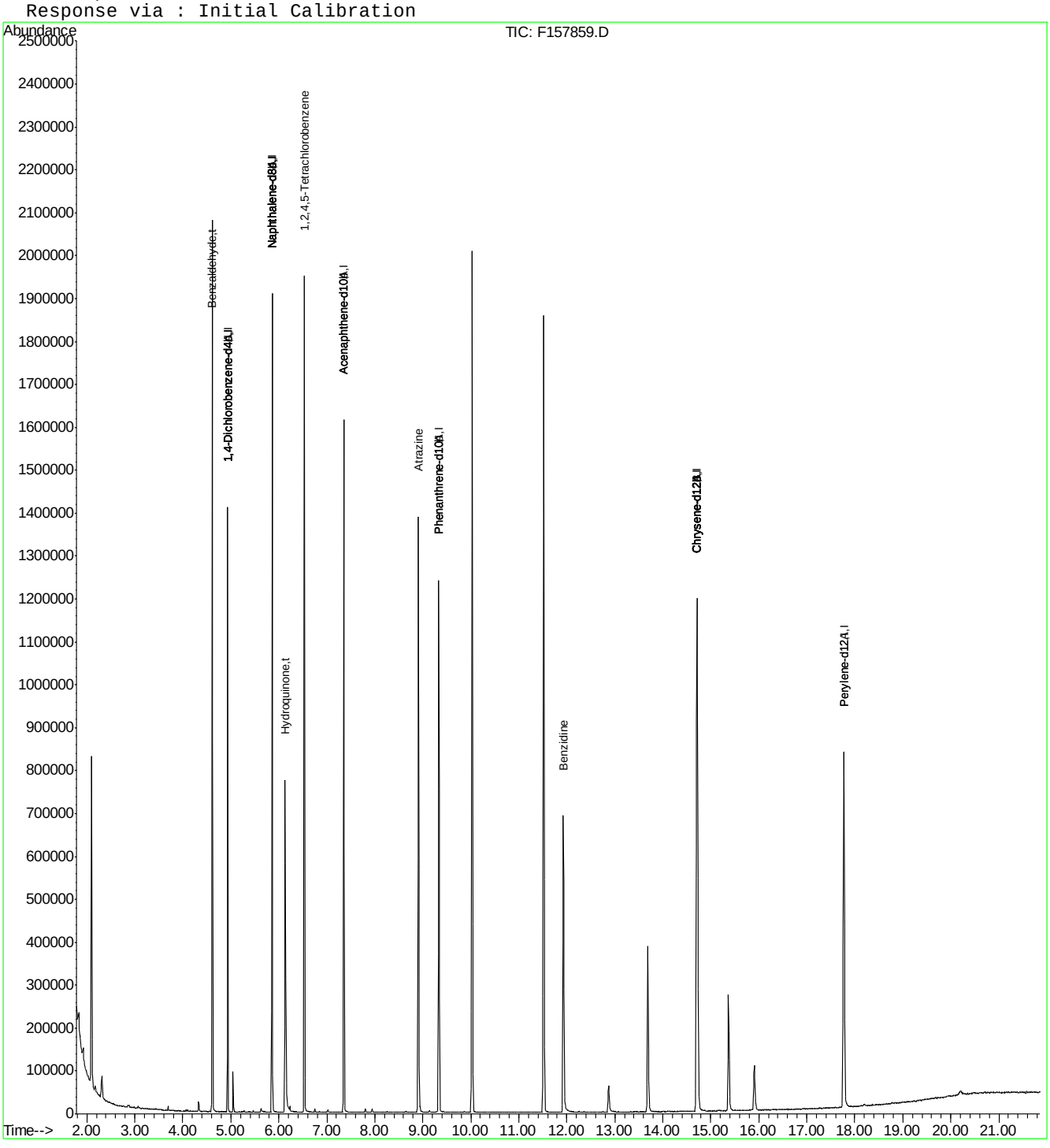
Target Compounds					Qvalue
160) Benzaldehyde	4.62	105	333578	87.91 ppm	98
162) Hydroquinone	6.13	110	475420	79.09 ppm	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	295311	81.06 ppm	99
166) Atrazine	8.91	200	194961	79.54 ppm	98
168) Benzidine	11.93	184	379118	86.93 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157859.D MF6644.M Fri Jun 10 12:36:20 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157859.D Vial: 3
Acq On : 9 Jun 2016 3:32 pm Operator: brittanp
Sample : ic6645-80 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:36 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157859.D MF6644.M Fri Jun 10 12:36:21 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157860.D Vial: 4
Acq On : 9 Jun 2016 4:01 pm Operator: brittanp
Sample : icc6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:36:26 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	174501	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	706776	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	392343	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	589752	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	493214	40.00 ppm	0.00
92) Perylene-d12	17.77	264	437078	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	174501	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	706776	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	392343	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	589752	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	493214	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	437078	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	174501	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	706776	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	392343	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	589752	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	493214	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	174501	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	706776	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	493214	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	706776	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	493214	40.00 ppm	-0.01

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%		

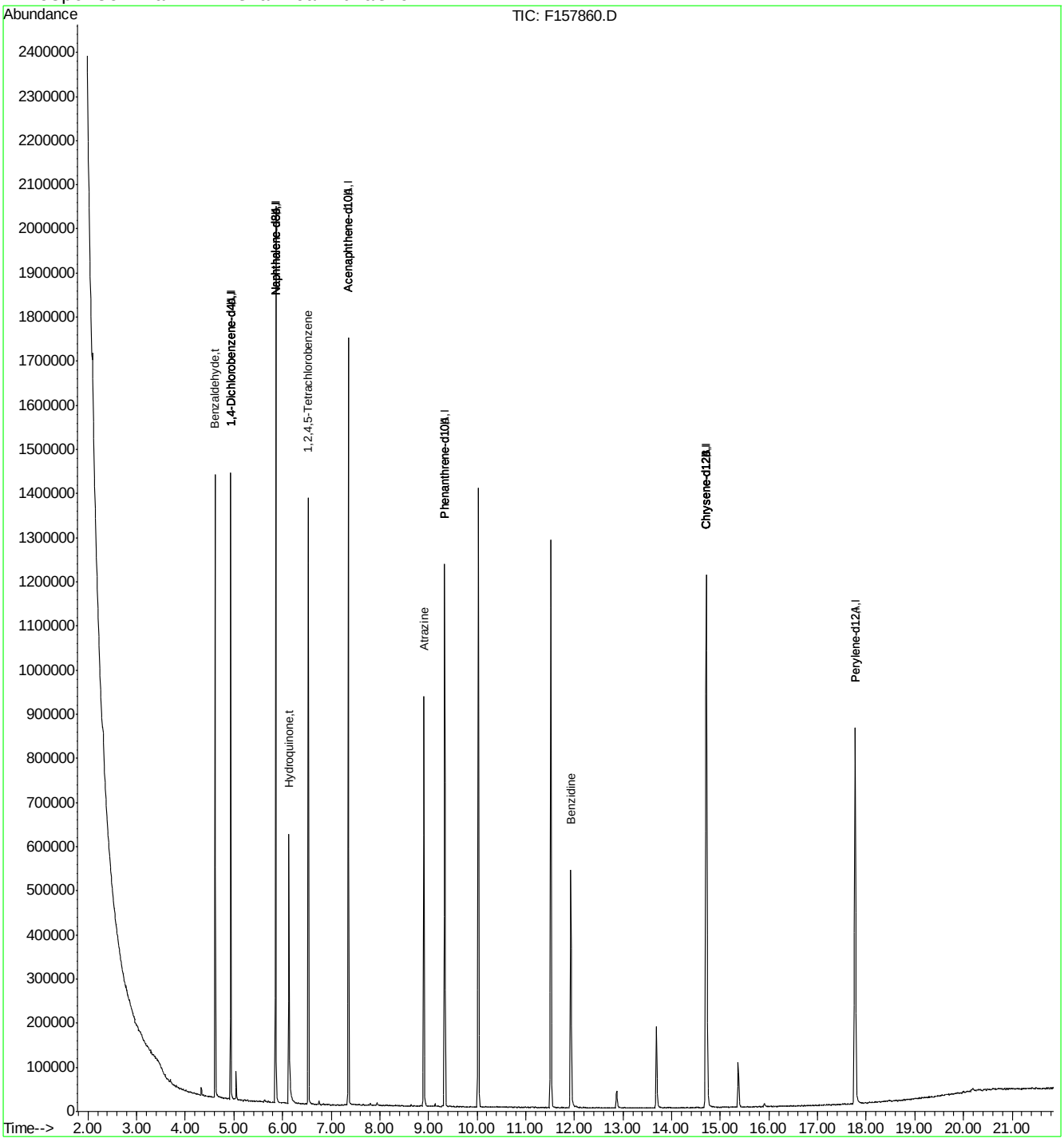
Target Compounds					Qvalue
160) Benzaldehyde	4.62	105	247230	61.15 ppm	96
162) Hydroquinone	6.13	110	305178	48.03 ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	201972	53.05 ppm	99
166) Atrazine	8.91	200	128532	50.75 ppm	99
168) Benzidine	11.93	184	313970	69.40 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157860.D MF6644.M Fri Jun 10 12:37:09 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157860.D Vial: 4
Acq On : 9 Jun 2016 4:01 pm Operator: brittanp
Sample : icc6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:36 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157860.D MF6644.M Fri Jun 10 12:37:10 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157861.D Vial: 5
Acq On : 9 Jun 2016 4:31 pm Operator: brittanp
Sample : ic6645-25 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:37:14 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	178387	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	728159	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	413014	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	621653	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	512277	40.00	ppm	0.00
92) Perylene-d12	17.77	264	453547	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	178387	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	728159	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	413014	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	621653	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	512277	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	453547	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	178387	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	728159	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	413014	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	621653	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	512277	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	178387	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	728159	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	512277	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	728159	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	512277	40.00	ppm	-0.01

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%			

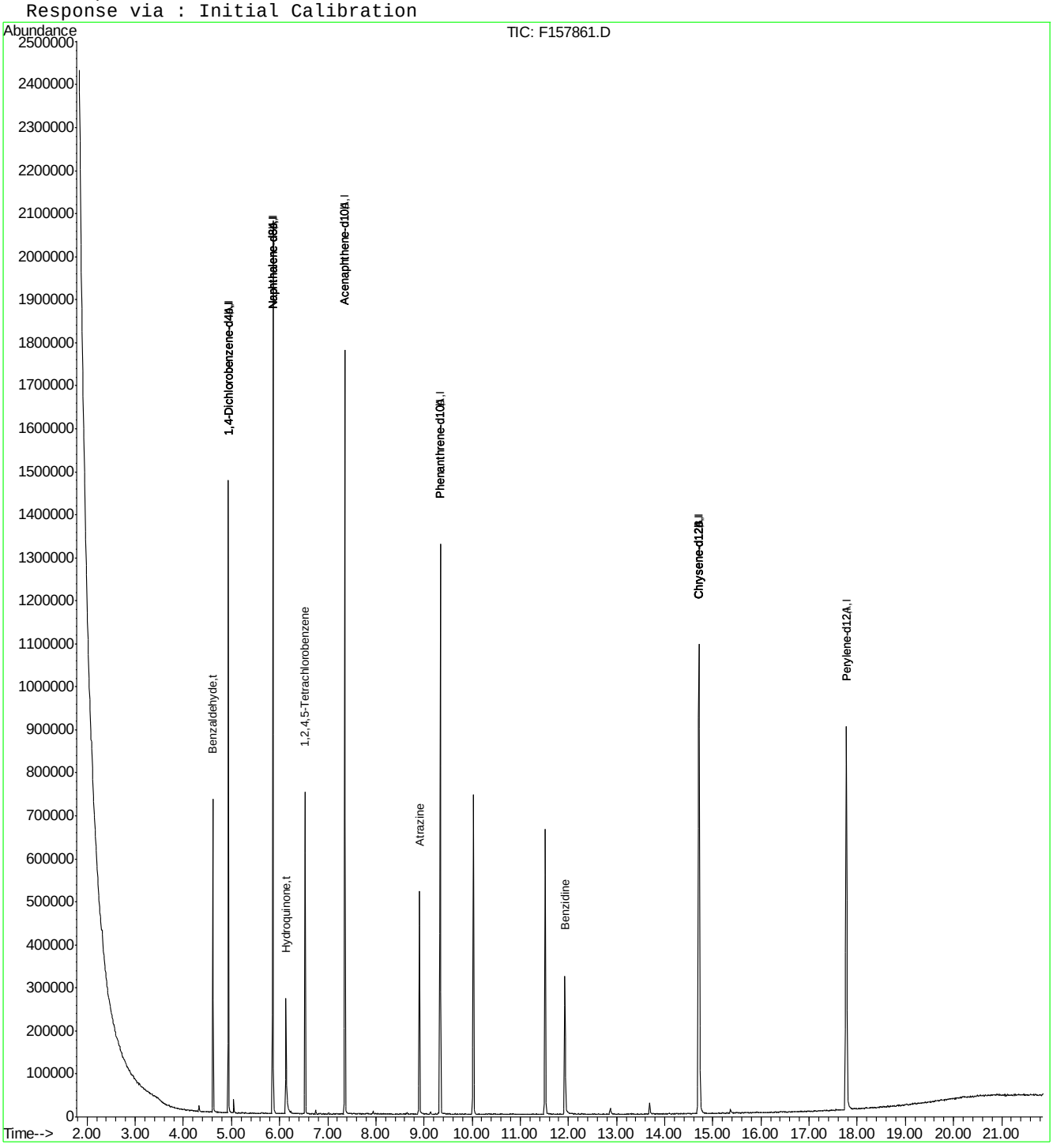
Target Compounds						Qvalue
160) Benzaldehyde	4.62	105	129019	31.22	ppm	96
162) Hydroquinone	6.13	110	147131	22.48	ppm	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	104878	26.17	ppm	99
166) Atrazine	8.91	200	64781	24.27	ppm	99
168) Benzidine	11.92	184	177210	37.72	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157861.D MF6644.M Fri Jun 10 12:37:55 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157861.D Vial: 5
Acq On : 9 Jun 2016 4:31 pm Operator: brittanp
Sample : ic6645-25 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:37 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157861.D MF6644.M Fri Jun 10 12:37:56 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157862.D Vial: 6
Acq On : 9 Jun 2016 5:00 pm Operator: brittanp
Sample : ic6645-10 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:38:01 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	177796	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	721485	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	406237	40.00	ppm	0.00
69) Phenanthrene-d10	9.33	188	616924	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	505249	40.00	ppm	0.00
92) Perylene-d12	17.77	264	448753	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	177796	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	721485	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	406237	40.00	ppm	0.00
132) Phenanthrene-d10A	9.33	188	616924	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	505249	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	448753	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	177796	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	721485	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	406237	40.00	ppm	0.00
165) Phenanthrene-d10b	9.33	188	616924	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	505249	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	177796	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	721485	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	505249	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	721485	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	505249	40.00	ppm	-0.01

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%			

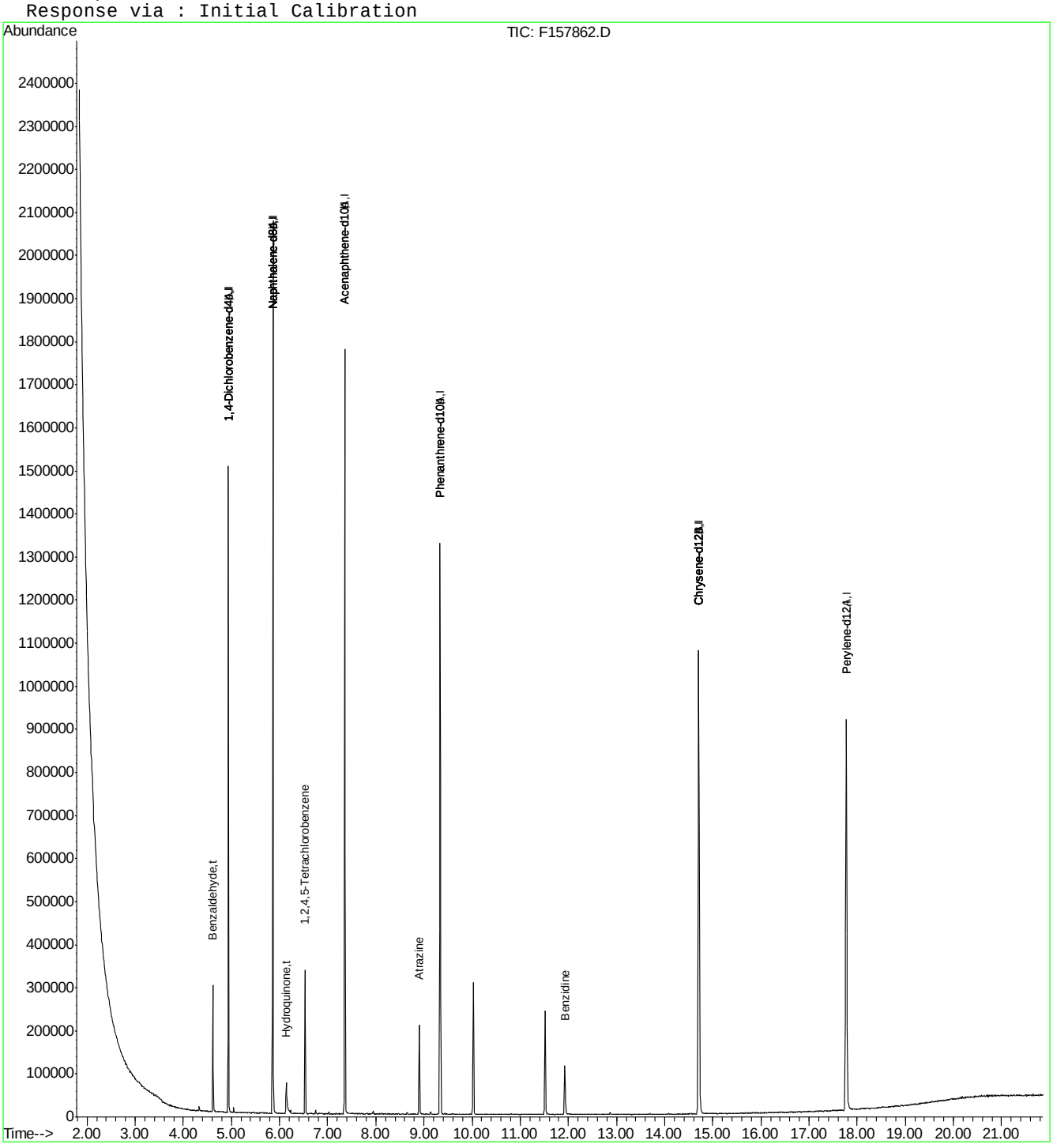
Target Compounds						Qvalue
160) Benzaldehyde	4.62	105	53617	13.02	ppm	95
162) Hydroquinone	6.14	110	54376	8.38	ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	45333	11.50	ppm	99
166) Atrazine	8.90	200	25033	9.45	ppm	94
168) Benzidine	11.92	184	67350	14.53	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157862.D MF6644.M Fri Jun 10 12:38:40 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157862.D Vial: 6
Acq On : 9 Jun 2016 5:00 pm Operator: brittanp
Sample : ic6645-10 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:38 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157862.D MF6644.M Fri Jun 10 12:38:40 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157863.D Vial: 7
Acq On : 9 Jun 2016 5:29 pm Operator: brittanp
Sample : ic6645-5 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:38:46 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	173059	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	709785	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	409155	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	623267	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	505263	40.00 ppm	0.00
92) Perylene-d12	17.77	264	446540	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	173059	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	709785	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	409155	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	623267	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	505263	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	446540	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	173059	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	709785	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	409155	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	623267	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	505263	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	173059	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	709785	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	505263	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	709785	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	505263	40.00 ppm	-0.01

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%		

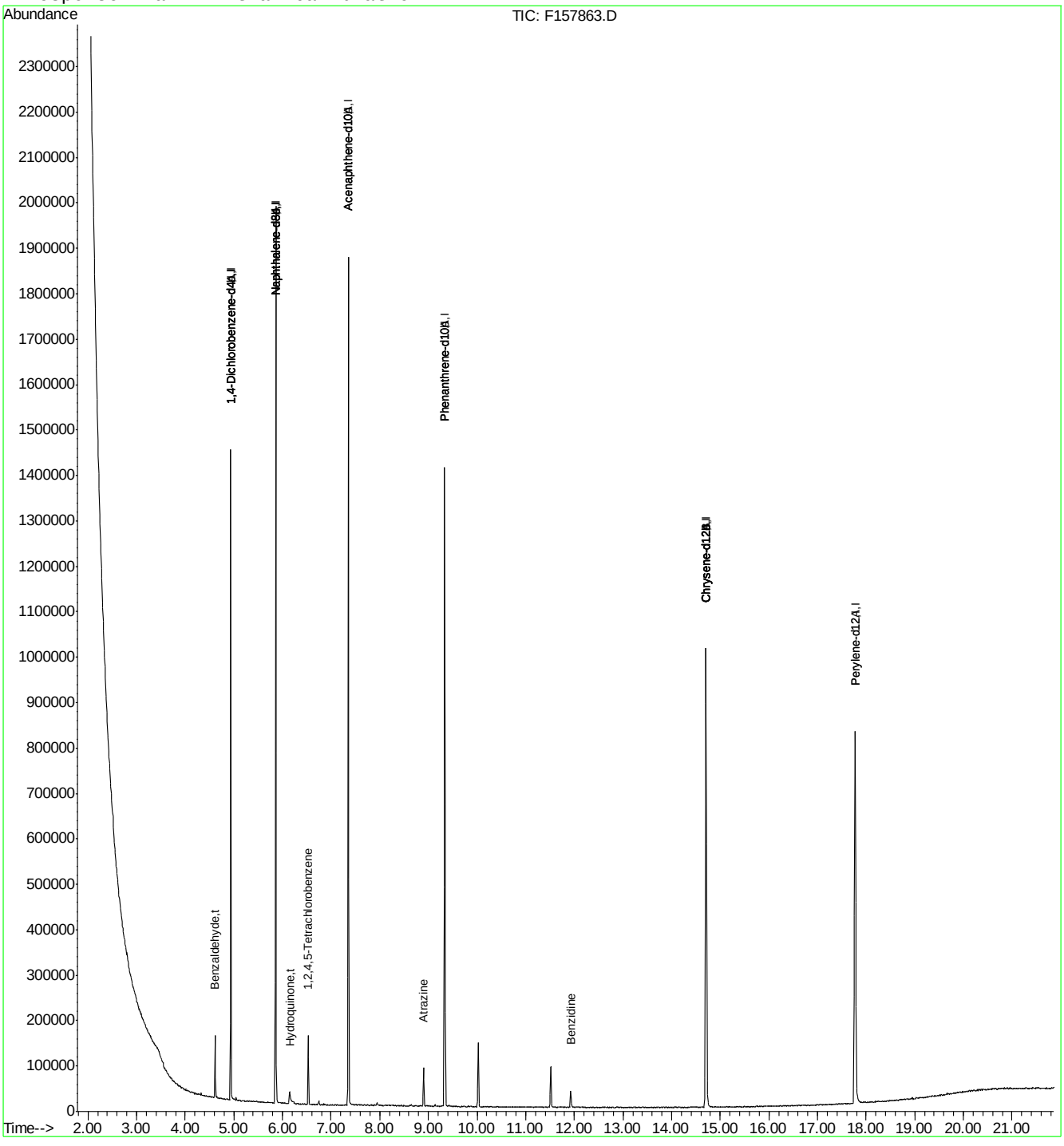
Target Compounds					Qvalue
160) Benzaldehyde	4.62	105	23606	5.89 ppm	97
162) Hydroquinone	6.15	110	23059	3.61 ppm	99
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	20471	5.16 ppm	98
166) Atrazine	8.90	200	10123	3.78 ppm	98
168) Benzidine	11.92	184	22917	4.95 ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157863.D MF6644.M Fri Jun 10 12:39:26 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157863.D Vial: 7
Acq On : 9 Jun 2016 5:29 pm Operator: brittanp
Sample : ic6645-5 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:39 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157863.D MF6644.M Fri Jun 10 12:39:27 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157864.D Vial: 8
Acq On : 9 Jun 2016 5:58 pm Operator: brittanp
Sample : ic6645-2 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:39:31 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	164177	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	667104	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	372777	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	578482	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	479922	40.00 ppm	0.00
92) Perylene-d12	17.77	264	432050	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	164177	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	667104	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	372777	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	578482	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	479922	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	432050	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	164177	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	667104	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	372777	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	578482	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	479922	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	164177	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	667104	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	479922	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	667104	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	479922	40.00 ppm	-0.01

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%		

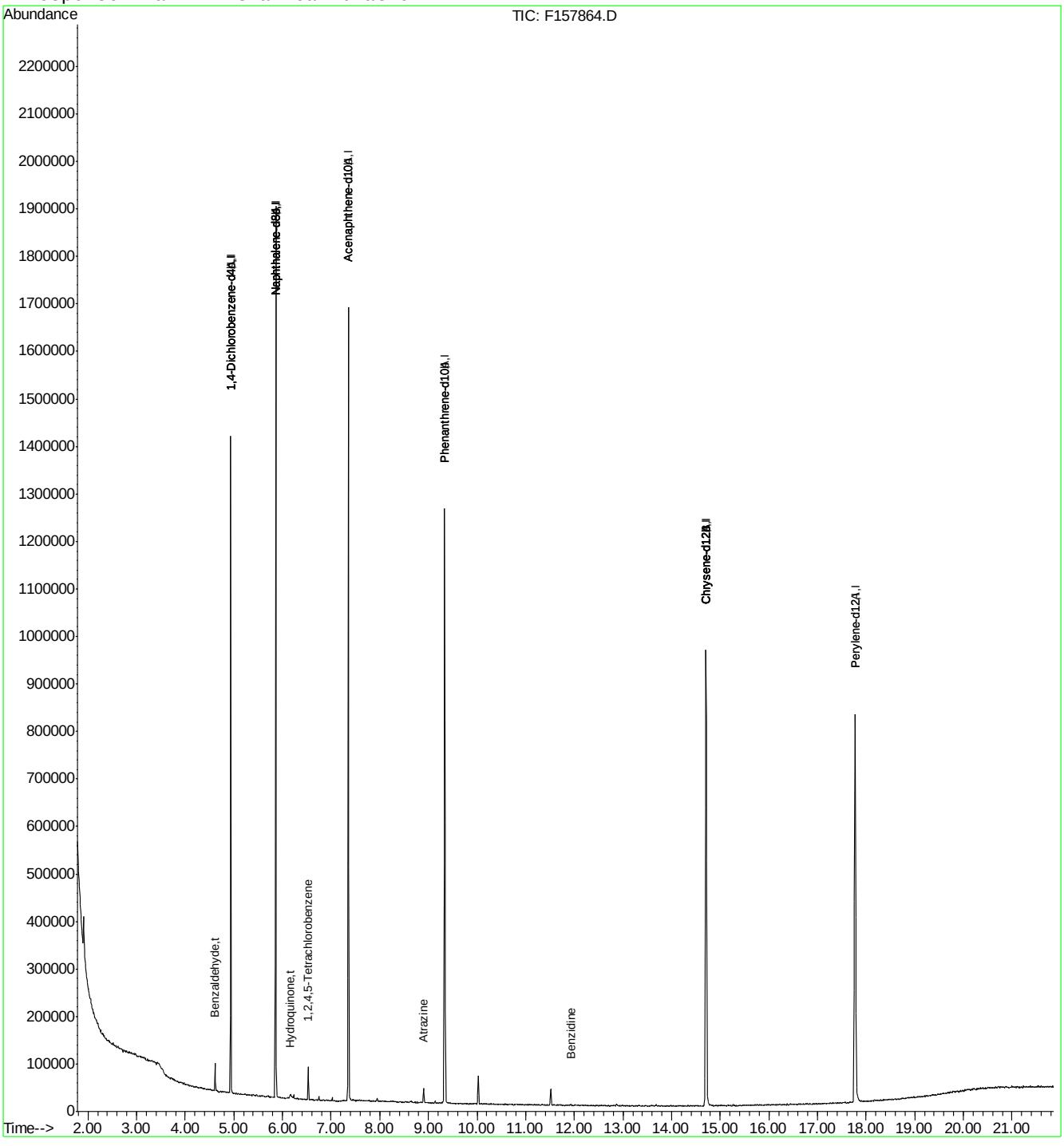
Target Compounds					Qvalue
160) Benzaldehyde	4.62	105	9977	2.62 ppm	97
162) Hydroquinone	6.16	110	9199	1.53 ppm	96
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	9313	2.57 ppm	96
166) Atrazine	8.90	200	3972	1.60 ppm	96
168) Benzidine	11.92	184	2384	0.54 ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157864.D MF6644.M Fri Jun 10 12:40:09 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157864.D Vial: 8
Acq On : 9 Jun 2016 5:58 pm Operator: brittanp
Sample : ic6645-2 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:39 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157864.D MF6644.M Fri Jun 10 12:40:11 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157865.D Vial: 9
Acq On : 9 Jun 2016 6:27 pm Operator: brittanp
Sample : ic6645-1 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:40:14 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	168839	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	693991	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	407219	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	616794	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	506513	40.00 ppm	0.00
92) Perylene-d12	17.77	264	448576	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	168839	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	693991	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	407219	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	616794	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	506513	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	448576	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	168839	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	693991	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	407219	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	616794	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	506513	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	168839	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	693991	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	506513	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	693991	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	506513	40.00 ppm	-0.01

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%		

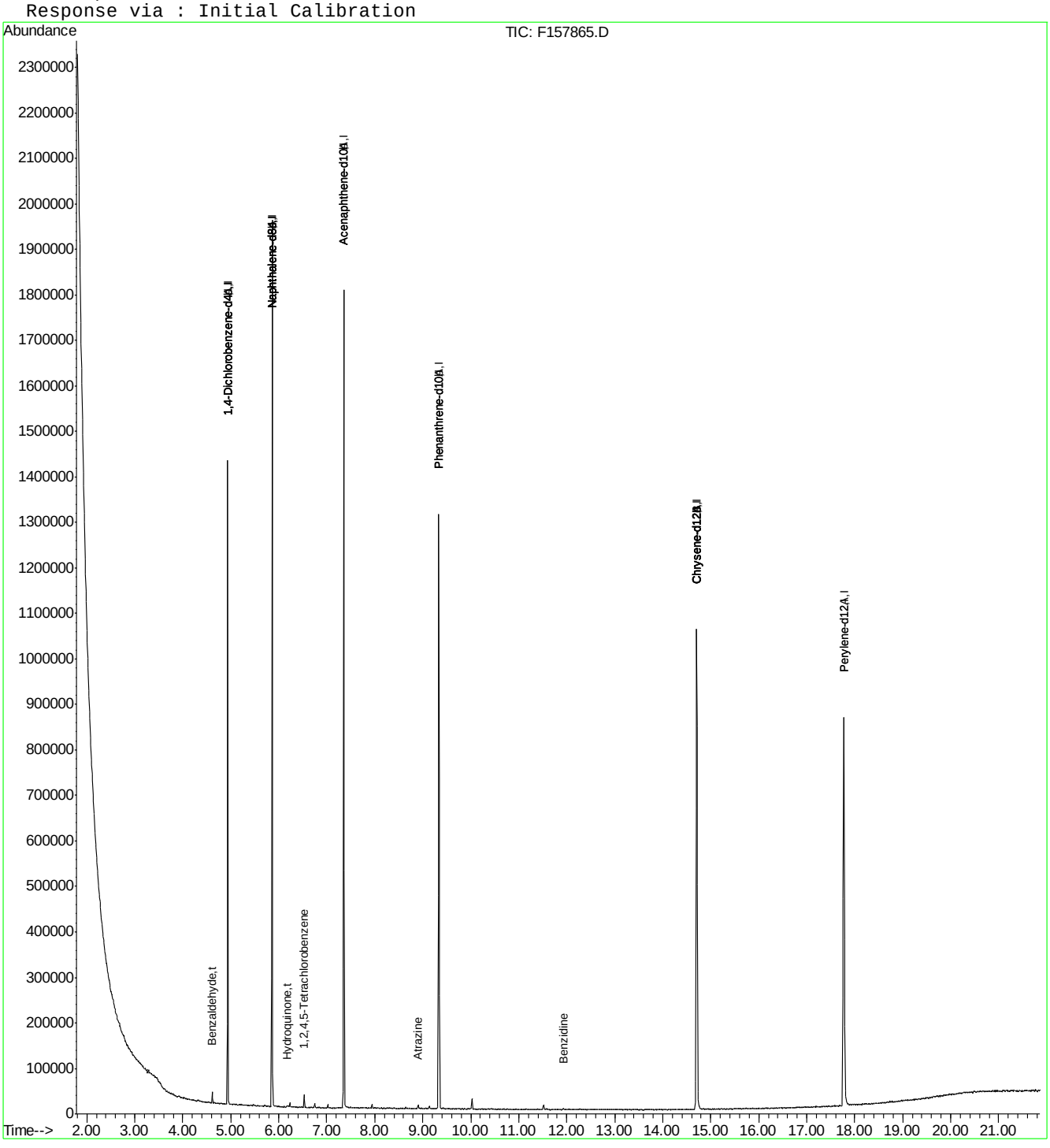
Target Compounds					Qvalue
160) Benzaldehyde	4.62	105	4336	1.11 ppm	91
162) Hydroquinone	6.17	110	3485	0.56 ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	4184	1.06 ppm	98
166) Atrazine	8.90	200	1370	0.52 ppm	95
168) Benzidine	11.92	184	2194	0.47 ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157865.D MF6644.M Fri Jun 10 12:40:58 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157865.D Vial: 9
Acq On : 9 Jun 2016 6:27 pm Operator: brittanp
Sample : ic6645-1 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:40 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:34:27 2016
Response via : Initial Calibration



F157865.D MF6644.M Fri Jun 10 12:40:58 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157867.D Vial: 11
Acq On : 9 Jun 2016 7:25 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:54:27 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	167715	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	715808	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	418996	40.00	ppm	0.00
69) Phenanthrene-d10	9.33	188	640964	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	504045	40.00	ppm	0.00
92) Perylene-d12	17.77	264	360346	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	167715	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	715808	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	418996	40.00	ppm	0.00
132) Phenanthrene-d10A	9.33	188	640964	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	504045	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	360346	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	167715	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	715808	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	418996	40.00	ppm	0.00
165) Phenanthrene-d10b	9.33	188	640964	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	504045	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	167715	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	715808	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	504045	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	715808	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	504045	40.00	ppm	-0.01

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

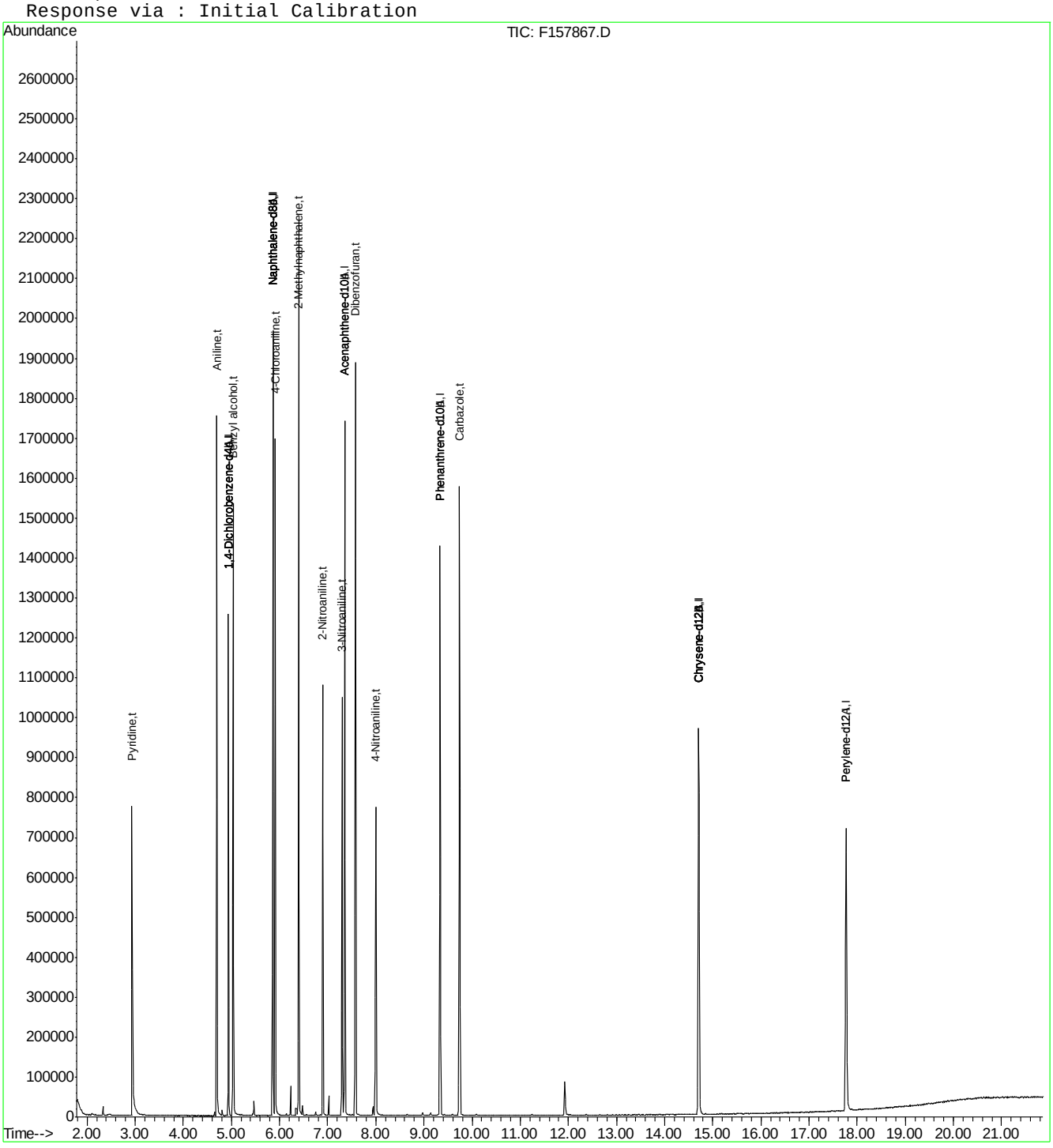
						Qvalue
3) Pyridine	2.93	79	389600	51.58	ppm	98
10) Aniline	4.70	93	566238	51.26	ppm	69
16) Benzyl alcohol	5.04	108	231721	53.02	ppm	96
39) 4-Chloroaniline	5.91	127	407786	48.31	ppm	98
44) 2-Methylnaphthalene	6.40	141	510359	46.42	ppm	98
54) 2-Nitroaniline	6.90	65	165727	48.28	ppm	97
58) 3-Nitroaniline	7.30	138	166152	48.98	ppm	99
62) Dibenzofuran	7.58	168	780369	45.86	ppm	98
68) 4-Nitroaniline	8.00	138	167011	47.45	ppm	95
79) Carbazole	9.74	167	854497	48.08	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157867.D Vial: 11
Acq On : 9 Jun 2016 7:25 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:58 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



F157867.D MF6644.M Fri Jun 10 12:58:35 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157868.D Vial: 12
Acq On : 9 Jun 2016 7:55 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:58:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	186883	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	834152	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	410268	40.00	ppm	0.00
69) Phenanthrene-d10	9.33	188	600436	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	459540	40.00	ppm	0.00
92) Perylene-d12	17.77	264	390484	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	186883	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	834152	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	410268	40.00	ppm	0.00
132) Phenanthrene-d10A	9.33	188	600436	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	459540	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	390484	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	186883	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	834152	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	410268	40.00	ppm	0.00
165) Phenanthrene-d10b	9.33	188	600436	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	459540	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	186883	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	834152	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	459540	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	834152	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	459540	40.00	ppm	-0.01

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	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
2) 1,4-Dioxane	2.55	88	156657	45.66	ppm	99
6) Indene	5.12	116	612893	46.87	ppm	98
7) Cumene	4.35	105	801516	45.02	ppm	98
13) Decane	4.81	43	259374	44.86	ppm	98
18) Acetophenone	5.23	105	471097	44.94	ppm	99
27) Quinoline	6.12	129	646048	39.37	ppm	98
40) 2,3-Dichloroaniline	6.63	161	270951	36.64	ppm	99
41) Caprolactam	6.16	55	105504	39.40	ppm	99
45) 1-Methylnaphthalene	6.48	141	526866	38.93	ppm	99
46) Dimethylnaphthalene	6.93	156	521336	39.35	ppm	100
53) Biphenyl	6.79	154	707948	44.84	ppm	99
82) Octadecane	9.21	57	348384	51.75	ppm	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157868.D Vial: 12
Acq On : 9 Jun 2016 7:55 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:58:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
100) 7,12-Dimethylbenz(a)anthra	17.03	256	270180	51.07 ppm	99

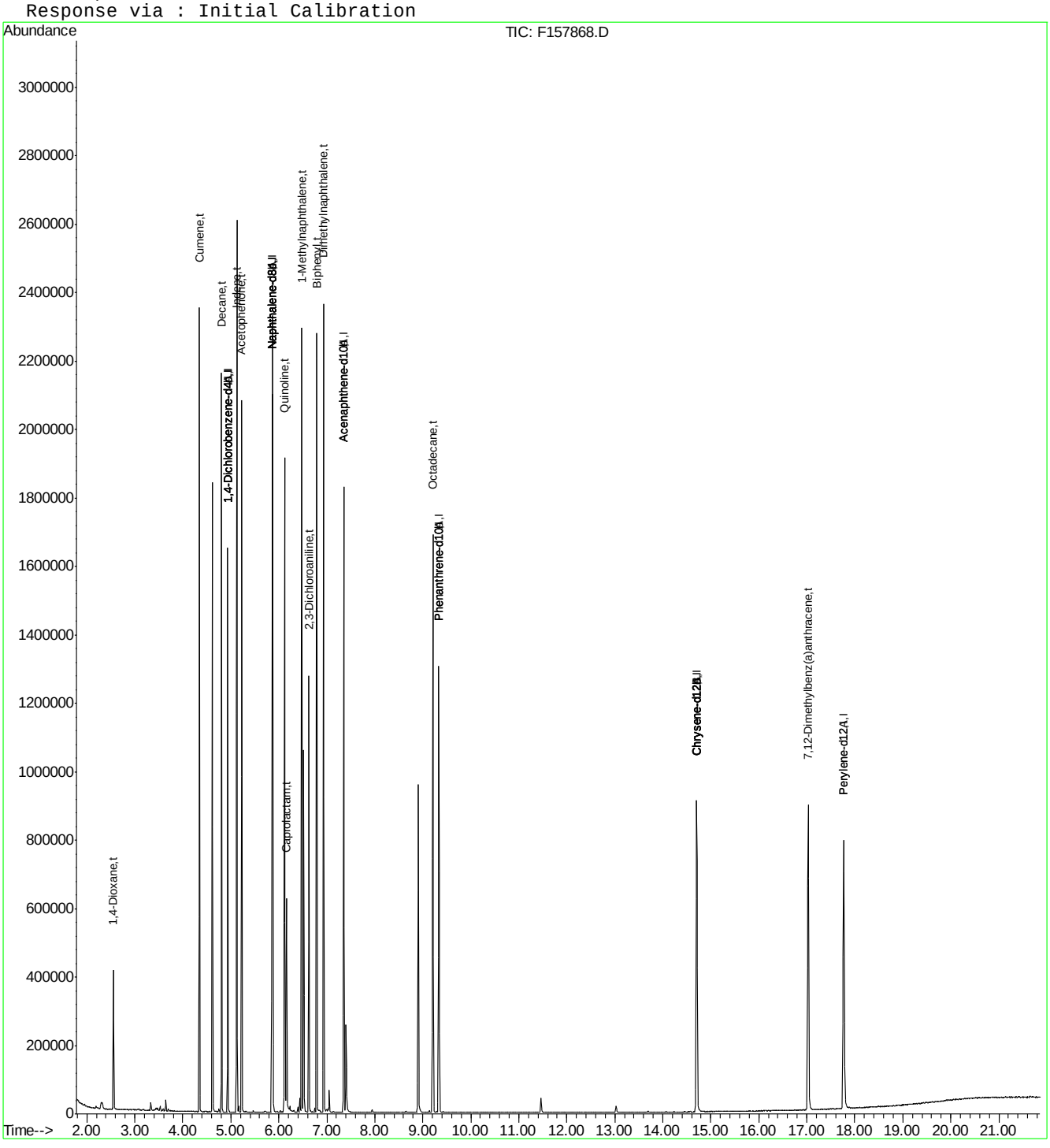
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157868.D MF6644.M Fri Jun 10 13:19:11 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157868.D Vial: 12
Acq On : 9 Jun 2016 7:55 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:19 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157868A.D Vial: 12
Acq On : 9 Jun 2016 7:55 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 12:58:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	186883	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	834152	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	410268	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	600436	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	459540	40.00 ppm	0.00
92) Perylene-d12	17.77	264	390484	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	186883	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	834152	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	410268	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	600436	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	459540	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	390484	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	186883	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	834152	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	410268	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	600436	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	459540	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	186883	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	834152	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	459540	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	834152	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	459540	40.00 ppm	-0.01

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	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
160) Benzaldehyde	4.62	105	286349	55.87 ppm	98
166) Atrazine	8.91	200	133858	59.35 ppm	99

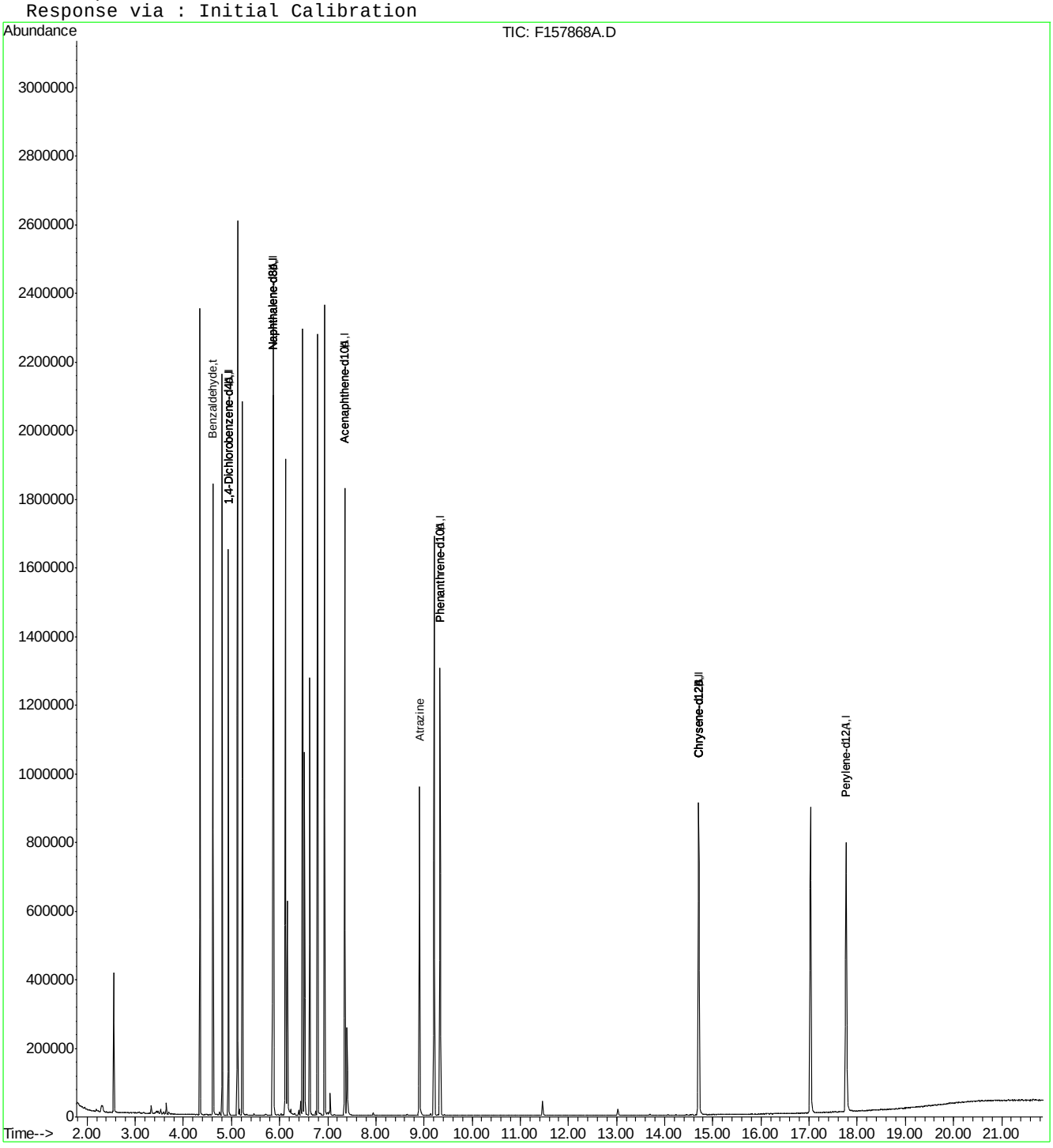
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157868A.D Vial: 12
Acq On : 9 Jun 2016 7:55 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:19 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:04:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	185837	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	738562	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	410640	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	596463	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	468547	40.00	ppm	0.00
92) Perylene-d12	17.77	264	407224	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	185837	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	738562	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	410640	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	596463	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	468547	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	407224	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	185837	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	738562	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	410640	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	596463	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	468547	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	185837	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	738562	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	468547	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	738562	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	468547	40.00	ppm	0.00

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	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
4) N-Nitrosodimethylamine	2.83	42	107495	51.12	ppm		100
11) bis(2-Chloroethyl)ether	4.74	93	359967	48.31	ppm		98
14) 1,3-Dichlorobenzene	4.89	146	367260	45.34	ppm		99
15) 1,4-Dichlorobenzene	4.95	146	375021	45.52	ppm		100
17) 1,2-Dichlorobenzene	5.06	146	354185	45.87	ppm		99
20) 2,2'-oxybis(1-Chloropropan	5.13	121	105011	42.57	ppm	#	85
22) n-Nitroso-di-n-propylamine	5.23	70	250153	45.51	ppm		95
23) Hexachloroethane	5.31	201	106473	48.16	ppm		93
26) Nitrobenzene	5.35	77	365146	45.07	ppm		96
28) Isophorone	5.52	82	677431	49.78	ppm		99
32) bis(2-Chloroethoxy)methane	5.67	93	396598	46.17	ppm		100
36) 1,2,4-Trichlorobenzene	5.82	180	264664	46.35	ppm		98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:04:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.88	128	995311	46.43	ppm	99
42)	Hexachlorobutadiene	5.96	225	122192	47.81	ppm	99
48)	Hexachlorocyclopentadiene	6.52	237	109067	43.14	ppm	99
52)	2-Chloronaphthalene	6.81	162	546773	45.60	ppm	99
55)	Dimethylphthalate	7.06	163	589398	45.04	ppm	99
56)	Acenaphthylene	7.21	152	872992	45.40	ppm	100
57)	2,6-Dinitrotoluene	7.13	165	117330	45.30	ppm	99
59)	Acenaphthene	7.39	153	570998	46.21	ppm	98
63)	2,4-Dinitrotoluene	7.55	165	146661	41.58	ppm	98
65)	Diethylphthalate	7.83	149	568966	45.42	ppm	99
66)	Fluorene	7.99	166	581556	44.79	ppm	100
67)	4-Chlorophenyl-phenylether	7.98	204	241279	44.84	ppm	100
71)	n-Nitrosodiphenylamine	8.13	169	404758	49.18	ppm	98
72)	1,2-Diphenylhydrazine	8.18	77	717814	49.31	ppm	96
74)	4-Bromophenyl-phenylether	8.65	248	130877	49.44	ppm	99
75)	Hexachlorobenzene	8.73	284	126997	45.31	ppm	97
77)	Phenanthrene	9.38	178	824299	45.22	ppm	99
78)	Anthracene	9.46	178	818776	46.35	ppm	99
80)	Di-n-butylphthalate	10.46	149	931330	50.64	ppm	100
81)	Fluoranthene	11.58	202	757599	46.80	ppm	98
84)	Pyrene	12.04	202	818944	49.58	ppm	98
86)	Butylbenzylphthalate	13.65	149	362237	49.90	ppm	98
88)	Benzo[a]anthracene	14.69	228	637059	46.68	ppm	100
90)	Chrysene	14.77	228	651303	44.54	ppm	100
91)	bis(2-Ethylhexyl)phthalate	15.06	149	506235	44.69	ppm	99
93)	Di-n-octylphthalate	16.51	149	791629	45.35	ppm	99
94)	Benzo[b]fluoranthene	17.02	252	591300	47.31	ppm	100
95)	Benzo[k]fluoranthene	17.07	252	643725	51.03	ppm	99
96)	Benzo[a]pyrene	17.66	252	558527	52.07	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.72	276	475705	48.38	ppm	98
99)	Dibenz[a,h]anthracene	19.78	278	489799	48.48	ppm	99
101)	Benzo[g,h,i]perylene	20.16	276	537346	47.75	ppm	97

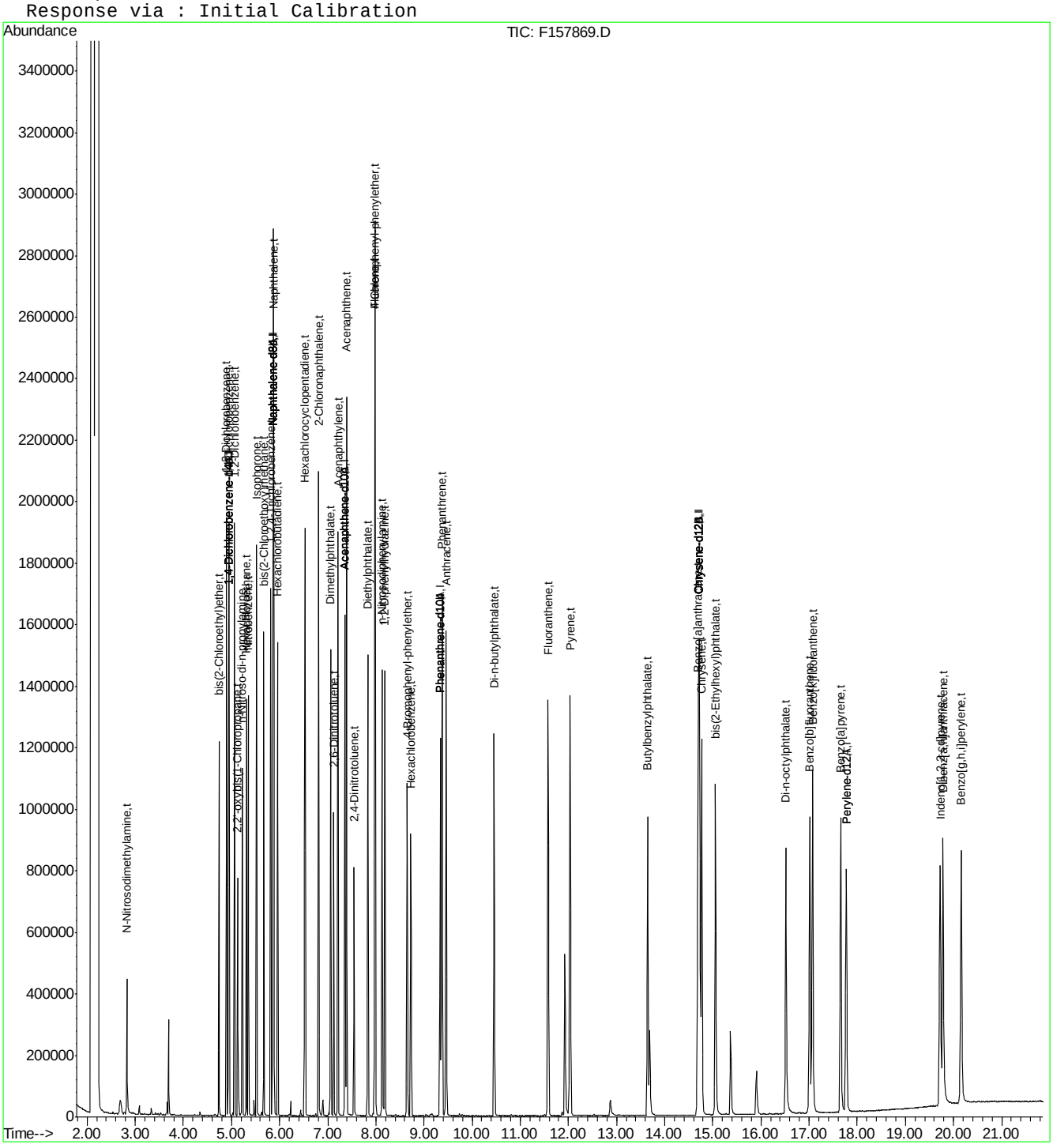
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:19 2016 Quant Results File: MF6644.RES

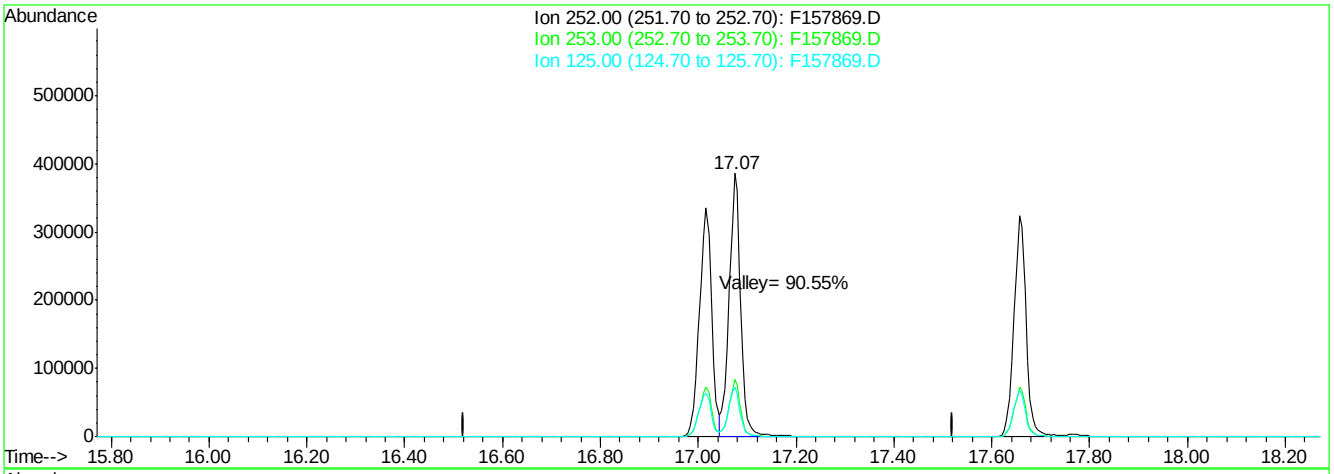
Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration

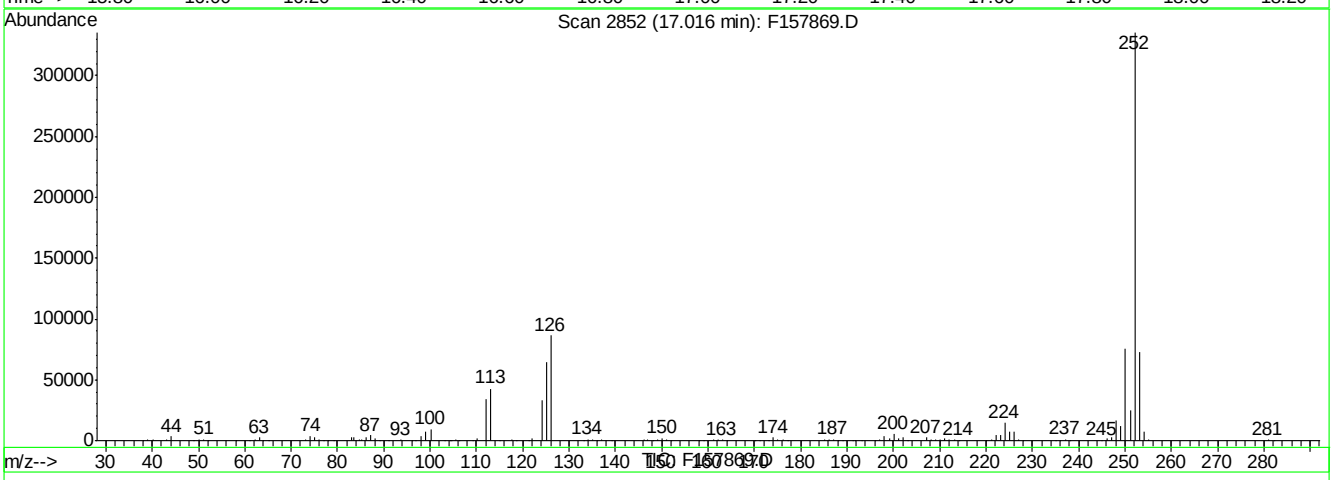


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Multiple Level Calibration





(94) Benzo[b]fluoranthene (t)

17.02min 47.31ppm

response 591300

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.75
125.00	19.00	19.28
0.00	0.00	0.00

F157869.D MF6644.M Fri Jun 10 13:14:37 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869A.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:04:13 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	185837	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	738562	40.00	ppm	0.00
47) Acenaphthene-d10	7.36	164	410640	40.00	ppm	0.00
69) Phenanthrene-d10	9.34	188	596463	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	468547	40.00	ppm	0.00
92) Perylene-d12	17.77	264	407224	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	185837	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	738562	40.00	ppm	0.00
121) Acenaphthene-d10A	7.36	164	410640	40.00	ppm	0.00
132) Phenanthrene-d10A	9.34	188	596463	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	468547	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	407224	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	185837	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	738562	40.00	ppm	0.00
163) Acenaphthene-d10b	7.36	164	410640	40.00	ppm	0.00
165) Phenanthrene-d10b	9.34	188	596463	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	468547	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	185837	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	738562	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	468547	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	738562	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	468547	40.00	ppm	0.00

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	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
164) 1,2,4,5-Tetrachlorobenzene	6.53	216	242747	56.35	ppm	98

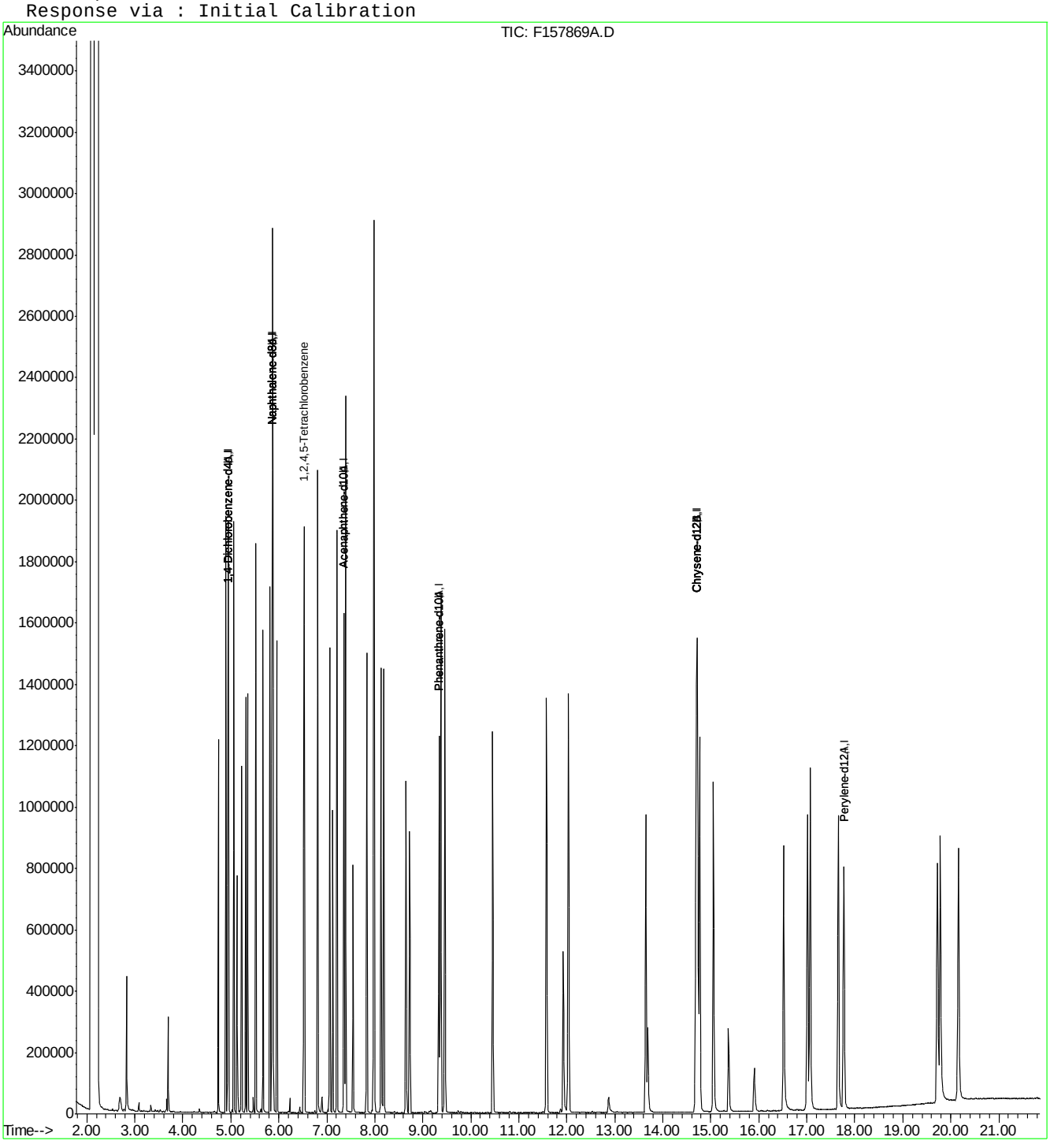
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157869A.D Vial: 13
Acq On : 9 Jun 2016 8:23 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:20 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



F157869A.D MF6644.M Fri Jun 10 13:20:25 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157870.D Vial: 14
Acq On : 9 Jun 2016 8:52 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:15:37 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	196825	40.00	ppm	0.00
24) Naphthalene-d8	5.86	136	782228	40.00	ppm	0.00
47) Acenaphthene-d10	7.35	164	422408	40.00	ppm	0.00
69) Phenanthrene-d10	9.33	188	619801	40.00	ppm	0.00
83) Chrysene-d12	14.71	240	473005	40.00	ppm	0.00
92) Perylene-d12	17.77	264	403290	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	196825	40.00	ppm	0.00
112) Naphthalene-d8A	5.86	136	782228	40.00	ppm	0.00
121) Acenaphthene-d10A	7.35	164	422408	40.00	ppm	0.00
132) Phenanthrene-d10A	9.33	188	619801	40.00	ppm	0.00
147) Chrysene-d12A	14.71	240	473005	40.00	ppm	0.00
155) Perylene-d12A	17.77	264	403290	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	196825	40.00	ppm	0.00
161) Naphthalene-d8b	5.86	136	782228	40.00	ppm	0.00
163) Acenaphthene-d10b	7.35	164	422408	40.00	ppm	0.00
165) Phenanthrene-d10b	9.33	188	619801	40.00	ppm	0.00
167) Chrysene-d12b	14.71	240	473005	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	196825	40.00	ppm	0.00
171) Naphthalene-d8c	5.86	136	782228	40.00	ppm	0.00
176) Chrysene-d12c	14.71	240	473005	40.00	ppm	0.00
178) Naphthalene-d8d	5.86	136	782228	40.00	ppm	0.00
180) Chrysene-d12B	14.71	240	473005	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.95	112	380647	51.93	ppm	0.00
Spiked Amount 50.000			Recovery = 103.86%			
8) Phenol-d5	4.65	99	469093	49.44	ppm	0.00
Spiked Amount 50.000			Recovery = 98.88%			
25) Nitrobenzene-d5	5.34	82	388541	49.65	ppm	0.00
Spiked Amount 50.000			Recovery = 99.30%			
51) 2-Fluorobiphenyl	6.69	172	661514	49.77	ppm	0.00
Spiked Amount 50.000			Recovery = 99.54%			
73) 2,4,6-Tribromophenol	8.29	330	55896	49.91	ppm	0.00
Spiked Amount 50.000			Recovery = 99.82%			
85) Terphenyl-d14	12.46	244	511646	54.29	ppm	0.00
Spiked Amount 50.000			Recovery = 108.58%			

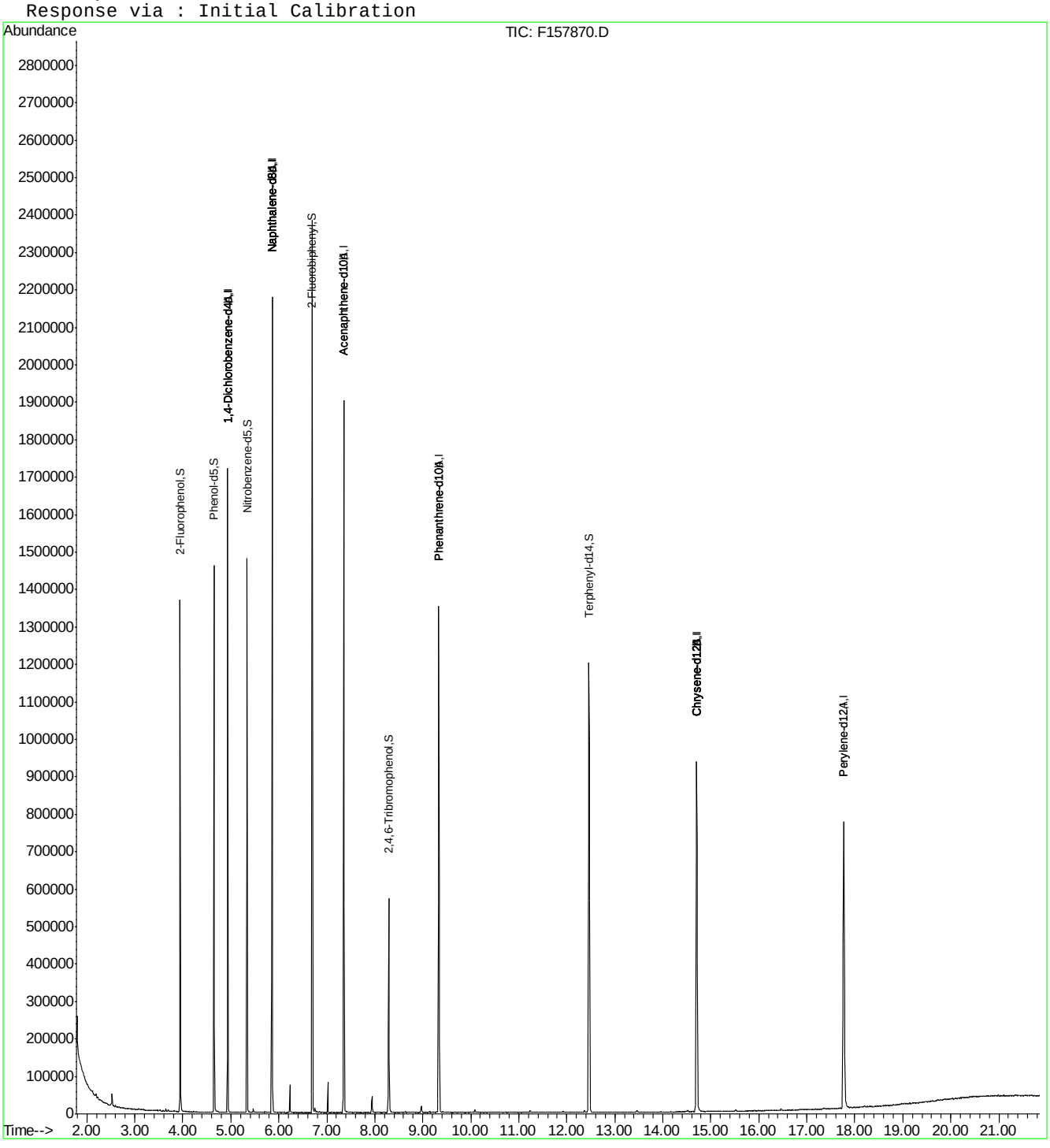
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157870.D MF6644.M Fri Jun 10 13:44:36 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157870.D Vial: 14
Acq On : 9 Jun 2016 8:52 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:16 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



F157870.D MF6644.M Fri Jun 10 13:44:37 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157871.D Vial: 15
Acq On : 9 Jun 2016 9:21 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:16:49 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	157083	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	639455	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	365752	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	560935	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	476769	40.00 ppm	0.00
92) Perylene-d12	17.77	264	424408	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	157083	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	639455	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	365752	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	560935	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	476769	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	424408	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	157083	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	639455	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	365752	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	560935	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	476769	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	157083	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	639455	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	476769	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	639455	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	476769	40.00 ppm	-0.01

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
89) 3,3'-Dichlorobenzidine	14.72	252	218714	46.62 ppm	99

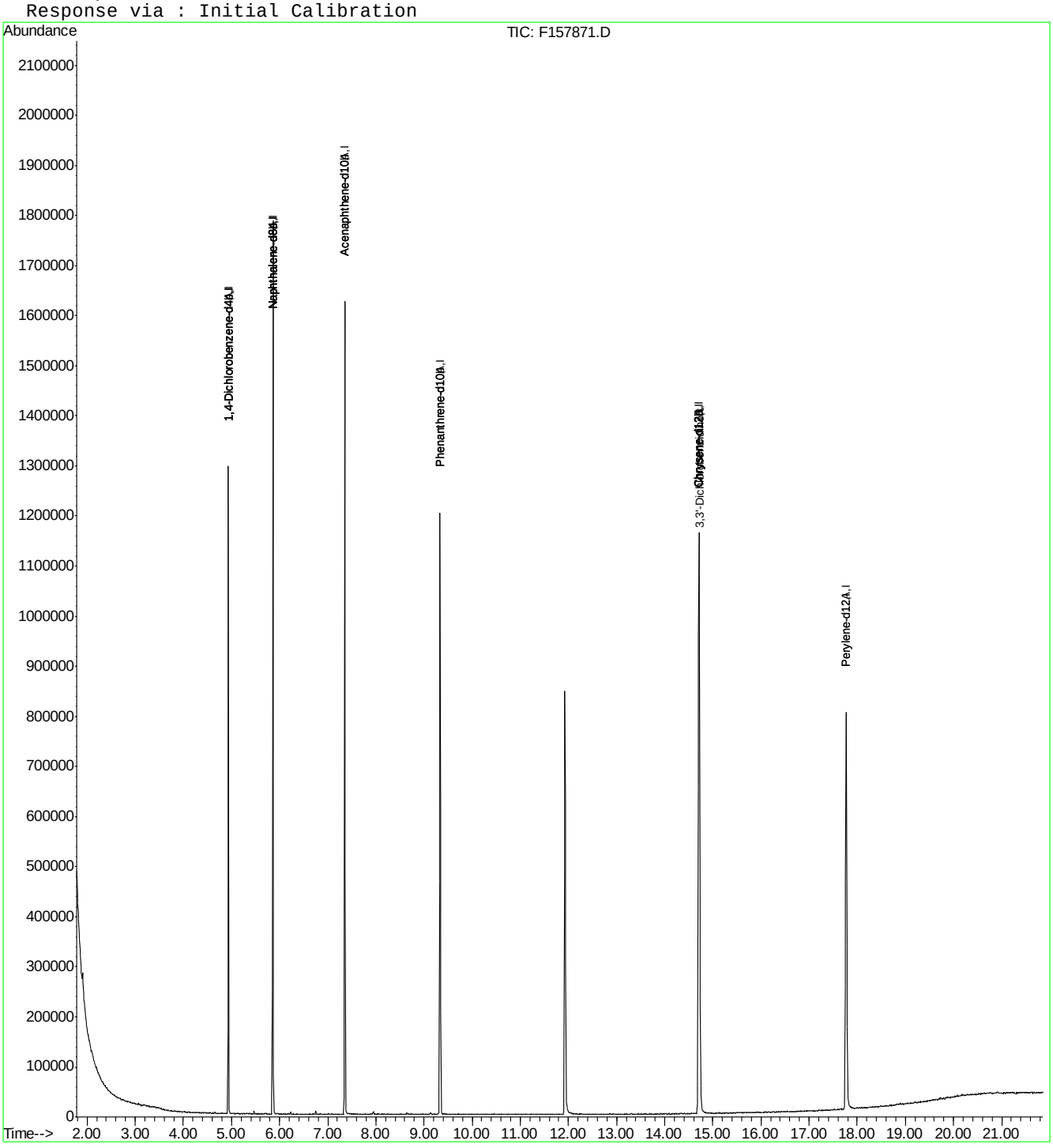
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157871.D Vial: 15
Acq On : 9 Jun 2016 9:21 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:20 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



F157871.D MF6644.M Fri Jun 10 13:20:42 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157871A.D Vial: 15
Acq On : 9 Jun 2016 9:21 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:16:49 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	157083	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	639455	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	365752	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	560935	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	476769	40.00 ppm	0.00
92) Perylene-d12	17.77	264	424408	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	157083	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	639455	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	365752	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	560935	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	476769	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	424408	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	157083	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	639455	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	365752	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	560935	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	476769	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	157083	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	639455	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	476769	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	639455	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	476769	40.00 ppm	-0.01

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
168) Benzidine	11.93	184	450930	83.46 ppm	99

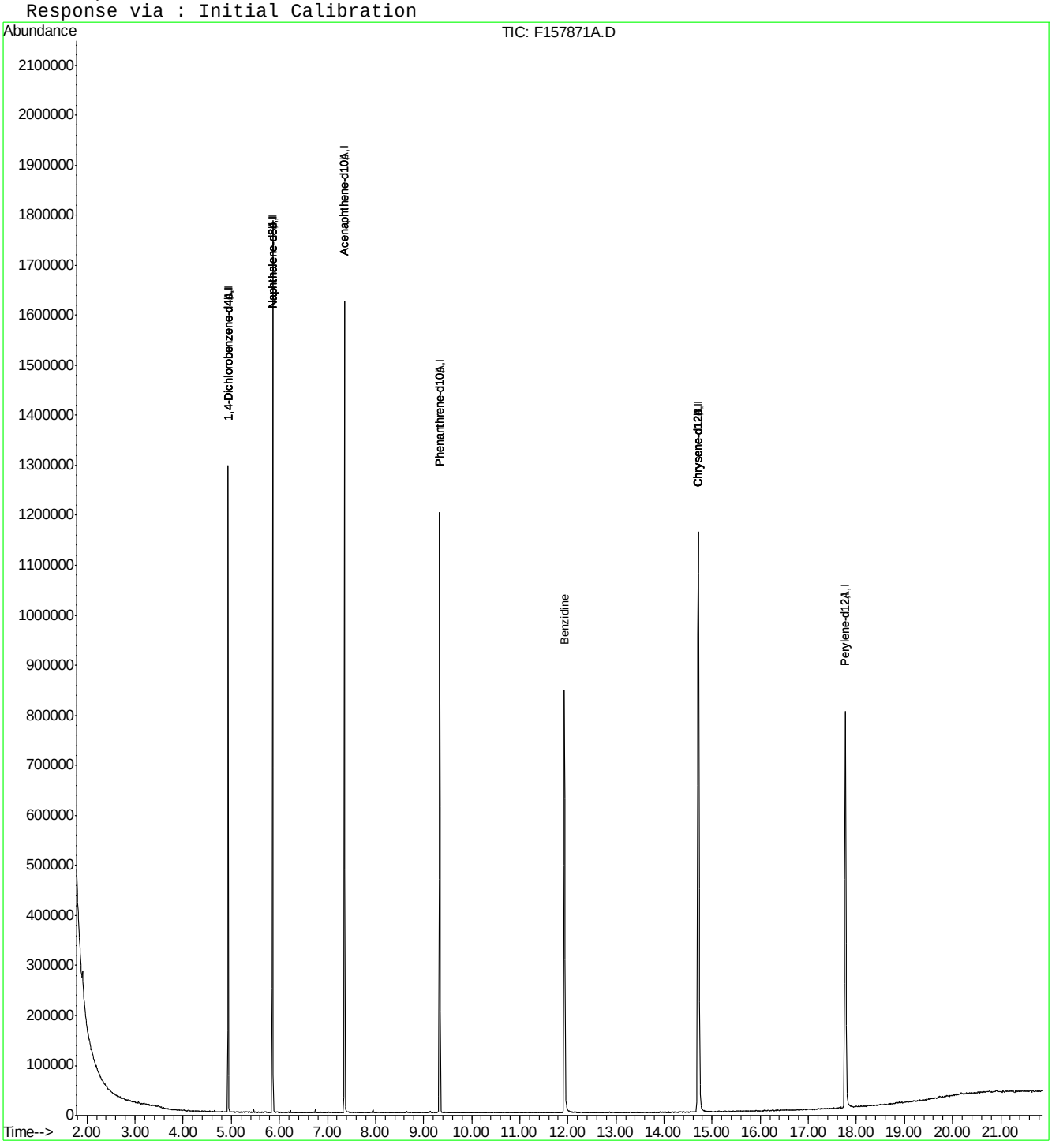
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F157871A.D MF6644.M Fri Jun 10 13:20:58 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157871A.D Vial: 15
Acq On : 9 Jun 2016 9:21 pm Operator: brittanp
Sample : icv6645-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:20 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157872.D Vial: 16
Acq On : 9 Jun 2016 9:50 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:17:38 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.94	152	164364	40.00 ppm	0.00
24) Naphthalene-d8	5.86	136	652925	40.00 ppm	0.00
47) Acenaphthene-d10	7.35	164	365864	40.00 ppm	0.00
69) Phenanthrene-d10	9.33	188	555748	40.00 ppm	0.00
83) Chrysene-d12	14.71	240	460415	40.00 ppm	0.00
92) Perylene-d12	17.77	264	405239	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.94	152	164364	40.00 ppm	0.00
112) Naphthalene-d8A	5.86	136	652925	40.00 ppm	0.00
121) Acenaphthene-d10A	7.35	164	365864	40.00 ppm	0.00
132) Phenanthrene-d10A	9.33	188	555748	40.00 ppm	0.00
147) Chrysene-d12A	14.71	240	460415	40.00 ppm	0.00
155) Perylene-d12A	17.77	264	405239	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.94	152	164364	40.00 ppm	0.00
161) Naphthalene-d8b	5.86	136	652925	40.00 ppm	0.00
163) Acenaphthene-d10b	7.35	164	365864	40.00 ppm	0.00
165) Phenanthrene-d10b	9.33	188	555748	40.00 ppm	0.00
167) Chrysene-d12b	14.71	240	460415	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.94	152	164364	40.00 ppm	0.00
171) Naphthalene-d8c	5.86	136	652925	40.00 ppm	0.00
176) Chrysene-d12c	14.71	240	460415	40.00 ppm	0.00
178) Naphthalene-d8d	5.86	136	652925	40.00 ppm	0.00
180) Chrysene-d12B	14.71	240	460415	40.00 ppm	-0.01

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
162) Hydroquinone	6.13	110	273803	55.41 ppm	99

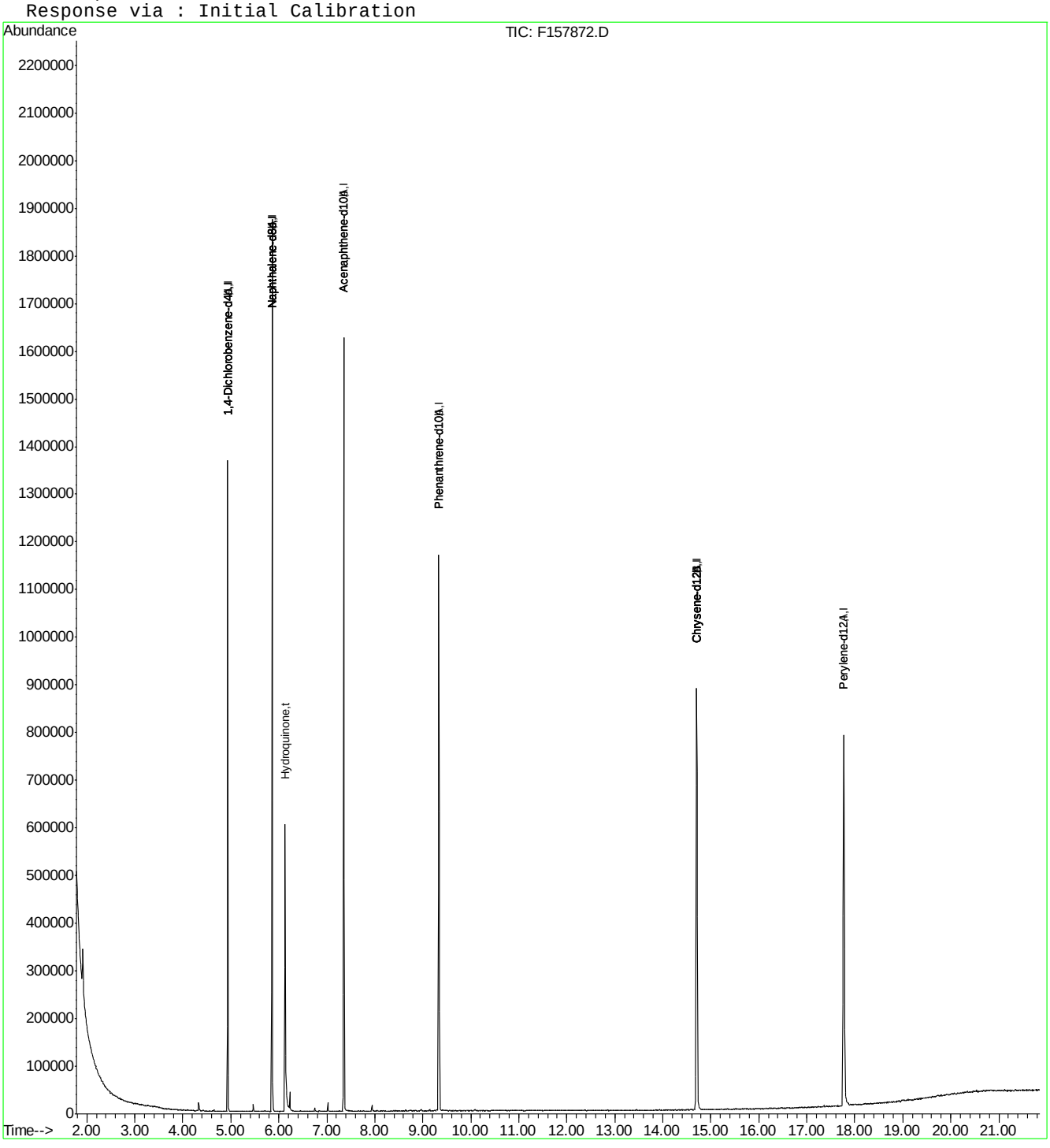
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6644\F157872.D Vial: 16
Acq On : 9 Jun 2016 9:50 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6645 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 13:18 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration



F157872.D MF6644.M Fri Jun 10 13:18:09 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6646\F157880.D Vial: 2
Acq On : 10 Jun 2016 4:09 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6646 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 16:31:33 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	197640	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	803291	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	444781	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	674173	40.00	ppm	-0.02
83) Chrysene-d12	14.69	240	540879	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	473564	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	197640	40.00	ppm	-0.01
112) Naphthalene-d8A	5.85	136	803291	40.00	ppm	-0.01
121) Acenaphthene-d10A	7.34	164	444781	40.00	ppm	-0.02
132) Phenanthrene-d10A	9.32	188	674173	40.00	ppm	-0.02
147) Chrysene-d12A	14.69	240	540879	40.00	ppm	-0.03
155) Perylene-d12A	17.75	264	473564	40.00	ppm	-0.03
159) 1,4-Dichlorobenzene-d4b	4.93	152	197640	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	803291	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	444781	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	674173	40.00	ppm	-0.02
167) Chrysene-d12b	14.69	240	540879	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.93	152	197640	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	803291	40.00	ppm	-0.01
176) Chrysene-d12c	14.69	240	540879	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	803291	40.00	ppm	-0.01
180) Chrysene-d12B	14.69	240	540879	40.00	ppm	-0.03

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	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
9) Phenol	4.65	94	481520	44.78	ppm	99
12) 2-Chlorophenol	4.77	128	362335	46.14	ppm	94
19) 2-Methylphenol	5.10	108	341057	45.92	ppm	99
21) 3&4-Methylphenol	5.20	108	363632	46.51	ppm	98
29) 2-Nitrophenol	5.57	139	182885	52.74	ppm	83
30) 2,4-Dimethylphenol	5.59	107	365355	48.67	ppm	99
31) Benzoic acid	5.66	105	254288	48.60	ppm	98
33) 2,4-Dichlorophenol	5.74	162	272342	48.83	ppm	96
34) 2,6-Dichlorophenol	5.90	162	265726	47.78	ppm	99
43) 4-Chloro-3-methylphenol	6.25	107	308363	48.15	ppm	98
49) 2,4,6-Trichlorophenol	6.61	196	173370	52.94	ppm	98
50) 2,4,5-Trichlorophenol	6.64	196	177207	47.69	ppm	100

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6646\F157880.D Vial: 2
Acq On : 10 Jun 2016 4:09 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6646 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 10 16:31:33 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 10 12:51:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
60)	2,4-Dinitrophenol	7.39	184	63869	43.68	ppm	#	75
61)	4-Nitrophenol	7.44	109	93803	53.02	ppm		94
64)	2,3,4,6-Tetrachlorophenol	7.69	232	128890	51.45	ppm		99
70)	4,6-Dinitro-2-methylphenol	8.02	198	98815	42.61	ppm		99
76)	Pentachlorophenol	9.01	266	98651	54.51	ppm		97

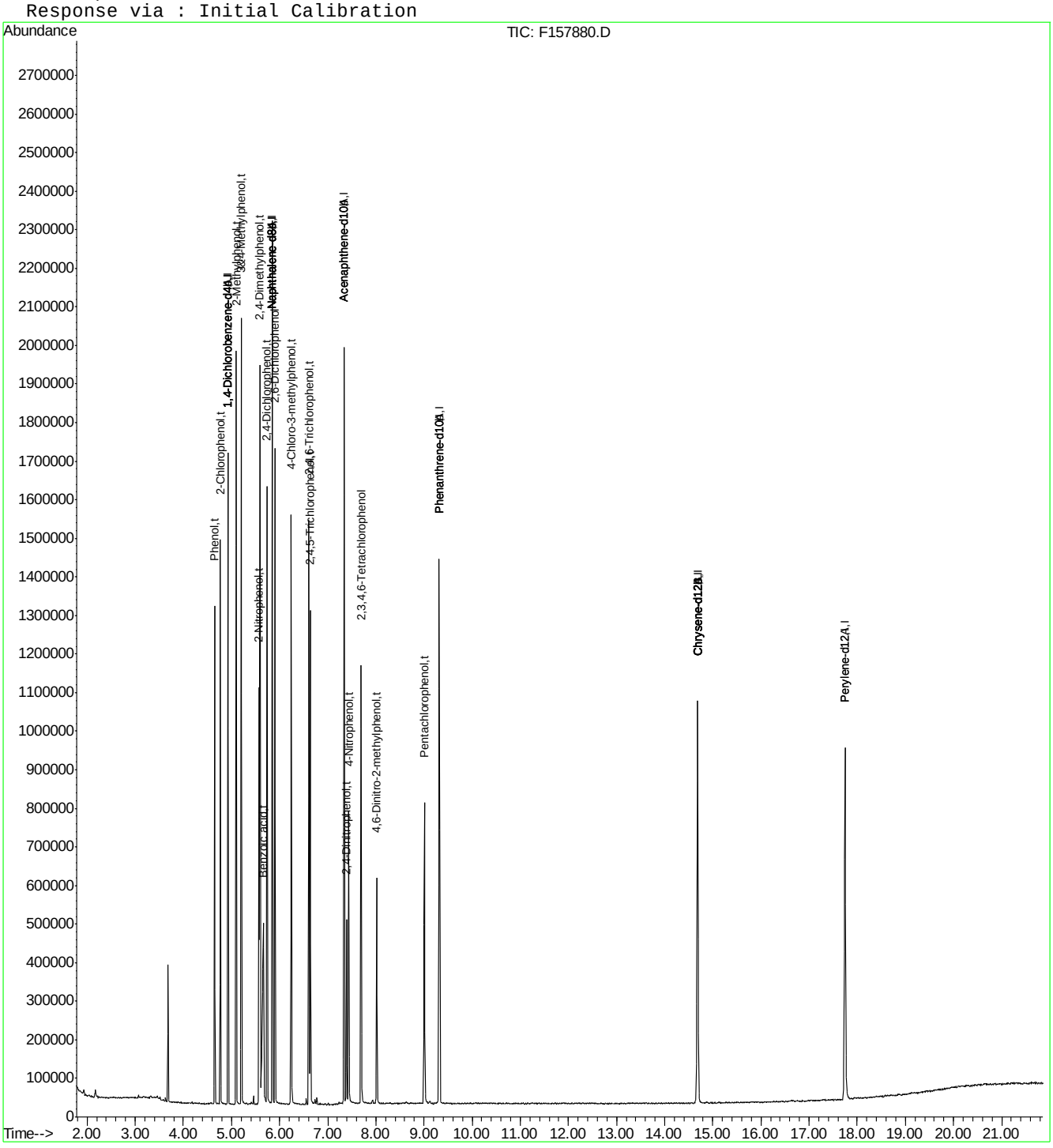
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6646\F157880.D Vial: 2
Acq On : 10 Jun 2016 4:09 pm Operator: brittanp
Sample : icv6644-50 Inst : MSF
Misc : op93756,ef6646 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 13 9:27 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration



F157880.D MF6644.M Mon Jun 13 09:31:15 2016 RT1 Page 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:16:58 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	162442	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	701522	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	417581	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	651601	40.00	ppm	-0.02
83) Chrysene-d12	14.69	240	577799	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	486643	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.93	152	162442	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	701522	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	417581	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	651601	40.00	ppm	0.00
147) Chrysene-d12A	14.69	240	577799	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	486643	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	162442	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	701522	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	417581	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	651601	40.00	ppm	-0.02
167) Chrysene-d12b	14.69	240	577799	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.93	152	162442	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	701522	40.00	ppm	-0.01
176) Chrysene-d12c	14.69	240	577799	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	701522	40.00	ppm	-0.01
180) Chrysene-d12B	14.69	240	577799	40.00	ppm	-0.03

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	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) 2-Picoline	3.47	93	735761	100.00	ppm	100
104) Pentachloroethane	4.72	167	211799	100.00	ppm	100
105) Methyl methanesulfonate	3.81	80	334865	100.00	ppm	100
106) N-Nitrosodiethylamine	4.12	102	319678	100.00	ppm	100
107) N-Nitrosomethylethylamine	3.56	42	189111	96.59	ppm	99
108) Ethyl methanesulfonate	4.35	79	480147	100.00	ppm	100
109) N-Nitrosopyrrolidine	5.23	41	190404m	140.77	ppm	
110) N-Nitrosomorpholine	5.24	56	244815	100.00	ppm	100
111) o-Toluidine	5.25	106	881142	100.41	ppm	95
113) O,O,O-Triethyl phosphoroth	5.64	198	250154	100.00	ppm	100
114) N-Nitrosopiperidine	5.46	42	244486	99.31	ppm	100
115) A,A-Dimethylphenethylamine	5.79	58	1180994m	99.18	ppm	

(#) = qualifier out of range (m) = manual integration
F157882.D MF6644.M Sun Jun 12 12:58:06 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:16:58 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116)	Hexachloropropene	5.93	213	316440	100.00	ppm	100
117)	p-Phenylenediamine	6.16	108	272370m	98.74	ppm	
118)	N-Nitrosodi-n-butylamine	6.14	84	414308	100.00	ppm	100
119)	Safrole	6.31	162	444581	100.00	ppm	100
120)	Isosafrole	6.74	162	385074m	99.97	ppm	
122)	Thionazin	7.93	143	159890	97.86	ppm	100
123)	Tetraethyl dithiopyrophosp	8.34	322	141406	100.00	ppm	100
124)	Phorate	8.54	75	781999	99.58	ppm	100
125)	Phenacetin	8.56	108	697792	100.33	ppm	98
126)	1,4-Naphthoquinone	6.96	158	372645	100.00	ppm	100
127)	m-Dinitrobenzene	7.08	168	197068	100.00	ppm	100
128)	Pentachlorobenzene	7.52	250	374597	100.00	ppm	100
129)	1-Naphthylamine	7.66	143	957082	100.00	ppm	100
130)	2-Naphthylamine	7.75	143	1121234	100.16	ppm	100
131)	5-Nitro-o-toluidine	7.99	152	375419	100.06	ppm	100
133)	Disulfoton	9.36	88	670714	98.90	ppm	100
134)	Dinoseb	9.33	211	277911	99.97	ppm	100
135)	Dimethoate	8.79	87	500607	100.11	ppm	100
136)	4-Aminobiphenyl	9.04	169	1188541	199.59	ppm	100
137)	Methyl parathion	10.01	125	327812	100.04	ppm	100
138)	Parathion	10.77	109	275300	98.67	ppm	100
139)	Diphenylamine	8.12	169	1813231	200.12	ppm	100
140)	Isodrin	11.26	193	189912	99.92	ppm	100
141)	Diallate	8.65	86	103527	81.91	ppm	98
142)	Pentachloronitrobenzene	9.04	295	101831	199.98	ppm	100
143)	Pronamide	9.15	173	553989	99.95	ppm	100
144)	4-Nitroquinoline 1-oxide	10.79	190	725072	399.80	ppm	100
145)	Methapyriline	11.04	58	328414m	99.96	ppm	
146)	sym-Trinitrobenzene	8.47	213	141176	100.00	ppm	100
148)	Aramite	12.67	185	116567	200.01	ppm	100
149)	p-(Dimethylamine)azobenzen	12.77	120	643962	100.15	ppm	99
150)	Kepone	13.50	272	301198	592.03	ppm	100
151)	Famphur	13.47	218	1416365	601.00	ppm	100
152)	2-Acetylaminofluorene	14.07	181	772211	98.06	ppm	100
153)	3,3'-Dimethylbenzidine	13.53	212	171616	100.37	ppm	100
154)	Chlorobenzilate	12.91	251	451056	100.00	ppm	100
156)	4,4-Methylene-bis-(2-chlor	14.75	266	124289	99.92	ppm	100
157)	3-Methylcholanthrene	18.37	268	768022	99.64	ppm	100
158)	Hexachlorophene	17.50	196	628735	597.36	ppm	100

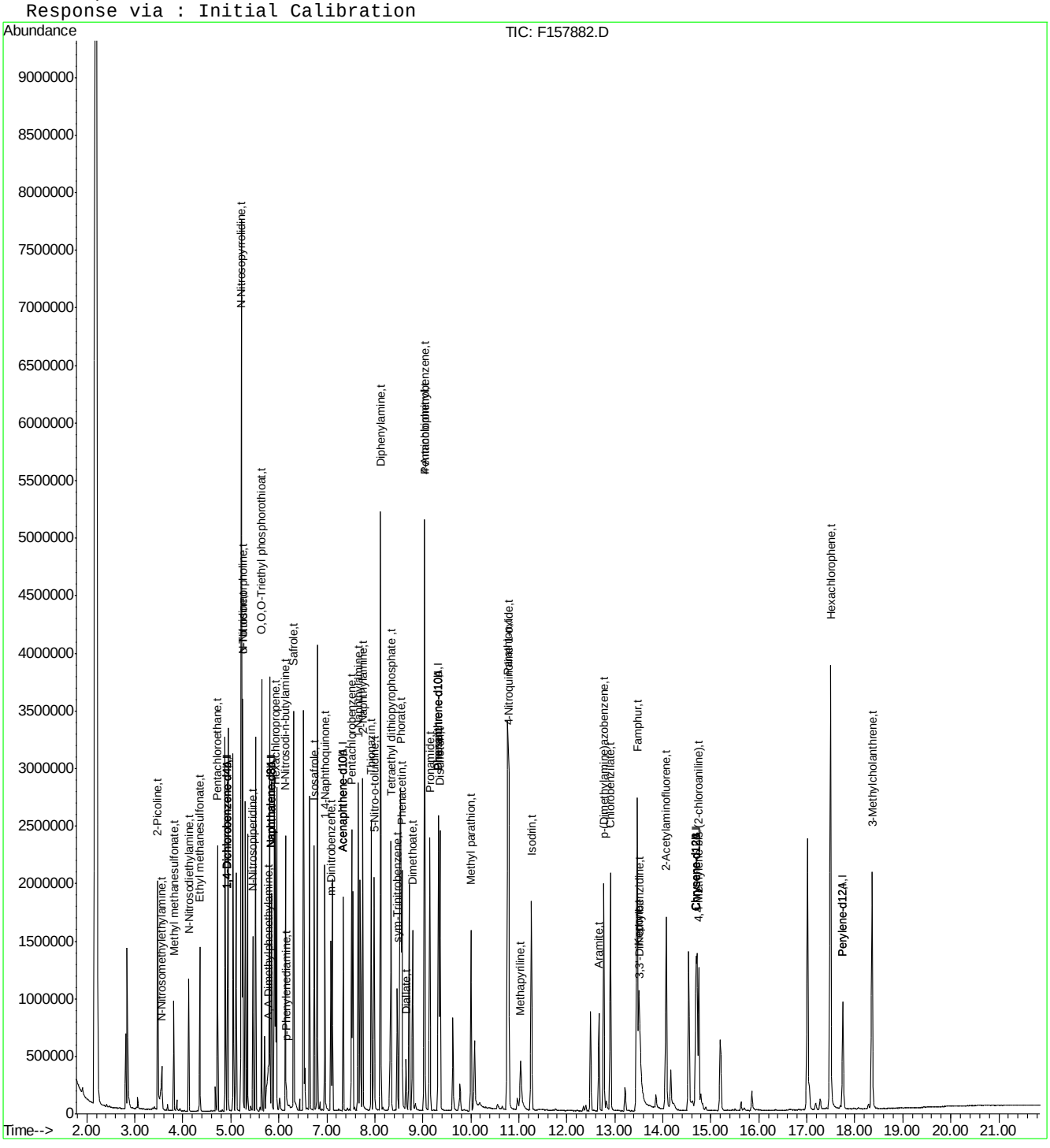
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:23 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration



F157882.D MF6644.M Sun Jun 12 12:58:07 2016 RT1 Page 3

SGS ACCUTEST JC22206

Manual Integration Approval Summary

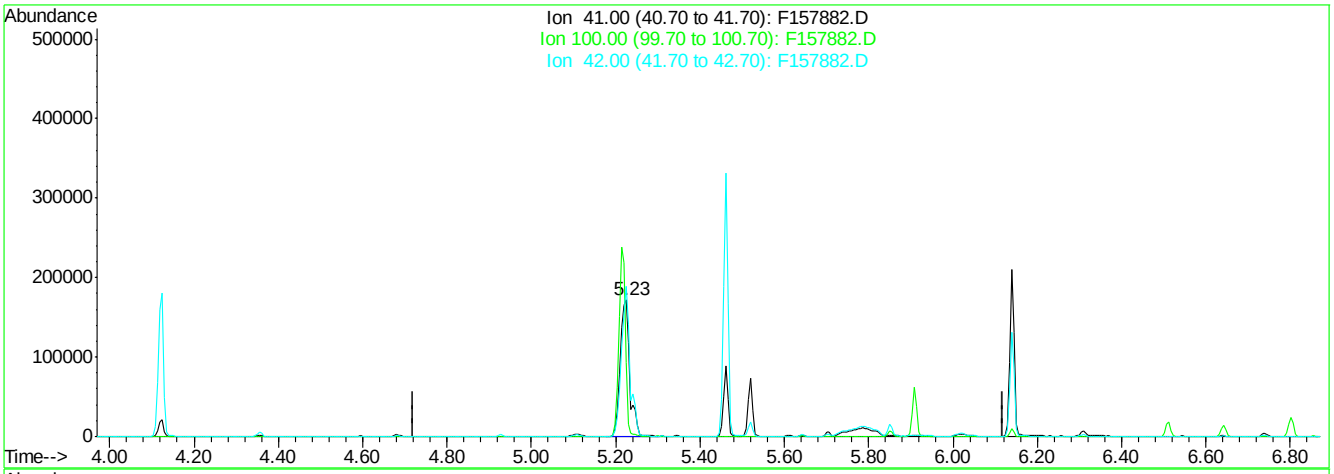
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157882.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 17:01	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

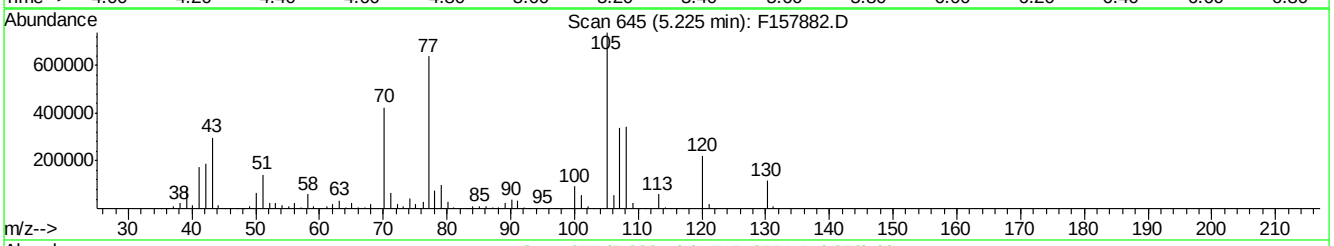
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.23	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.79	Split peak
p-Phenylenediamine	106-50-3		6.16	Split peak
Isosafrole	120-58-1		6.74	Poor instrument integration
Methapyrilene	91-80-5		11.04	Split peak

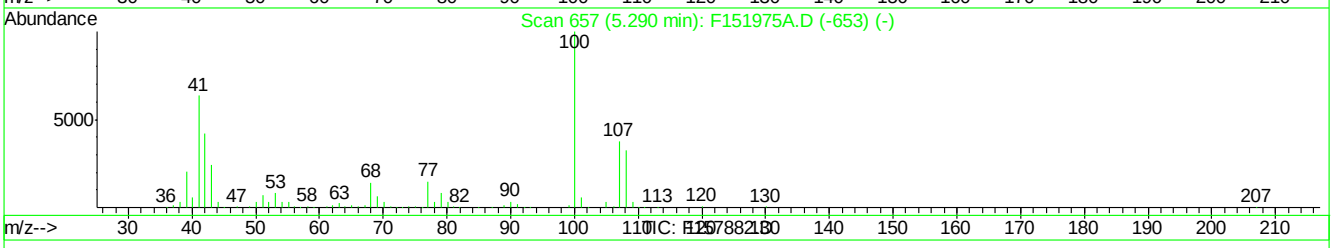
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:17 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.23min 198.47ppm

response 268455

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	54.44#
42.00	93.10	109.82
0.00	0.00	0.00

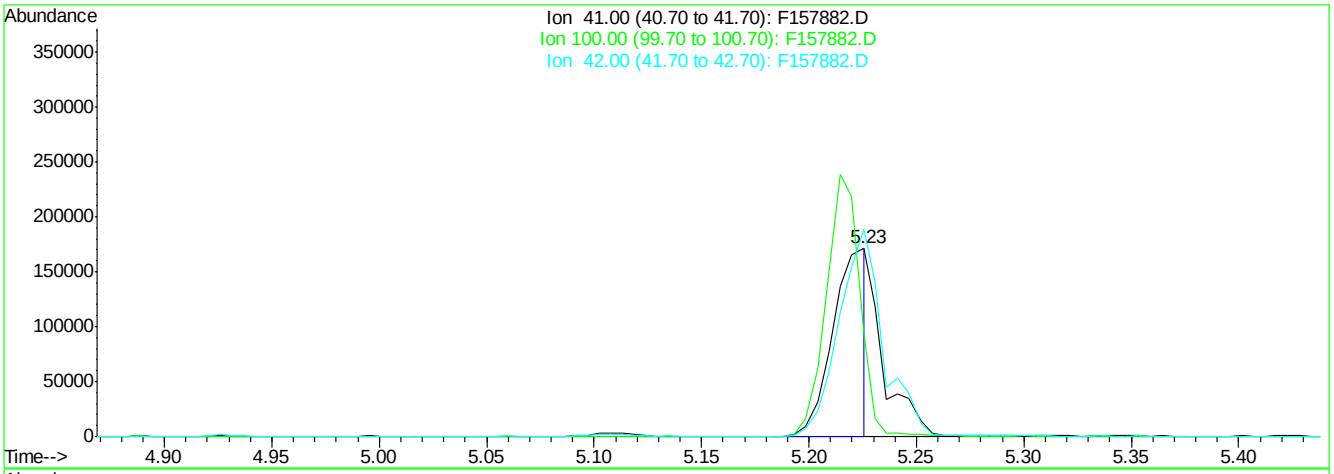
F157882.D MF6644.M Sun Jun 12 11:17:46 2016 RT1

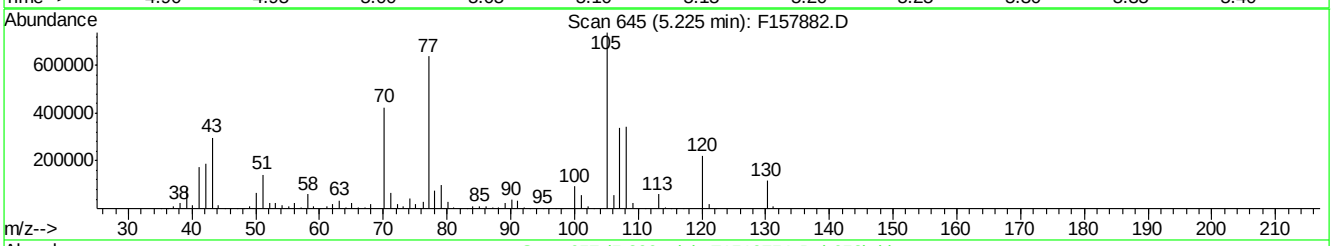
SGS ACCUTEST JC22206

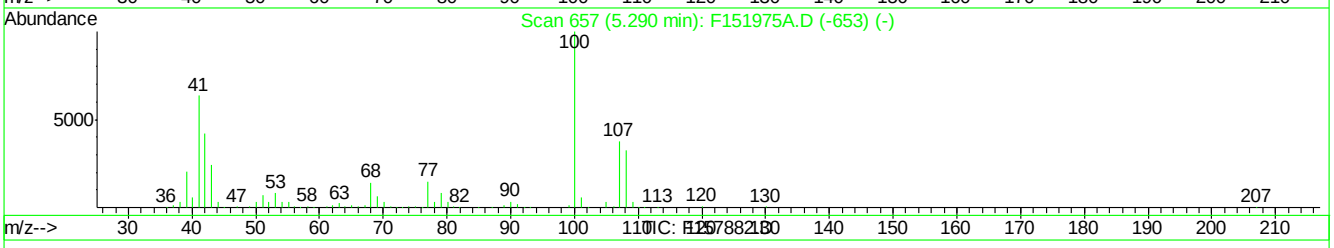
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:17 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.23min 140.77ppm m

response 190404

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	54.53#
42.00	93.10	109.81
0.00	0.00	0.00

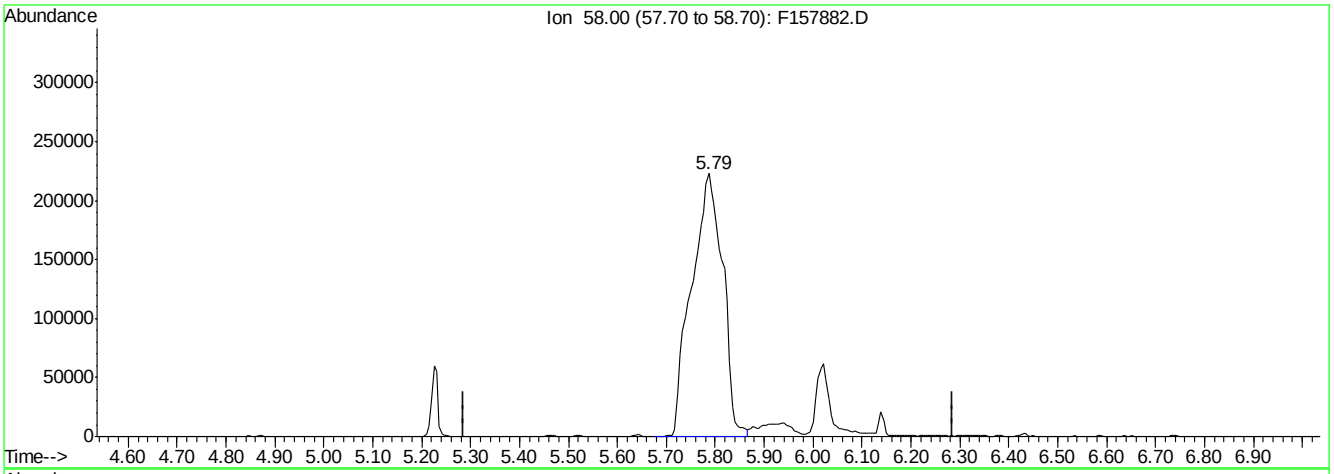
F157882.D MF6644.M Sun Jun 12 11:17:59 2016 RT1

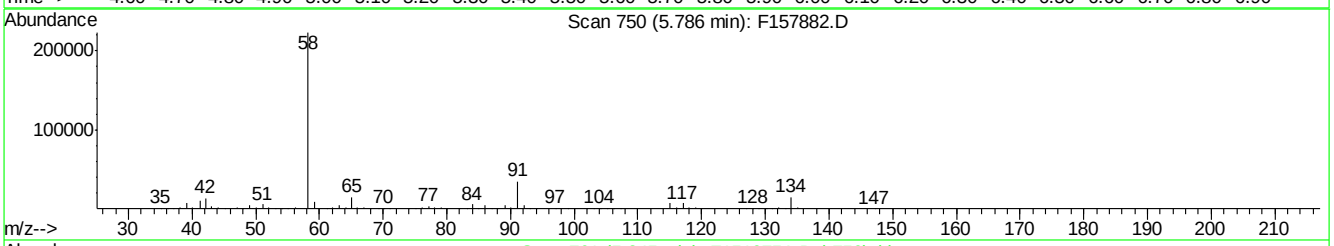
SGS ACCUTEST JC22206

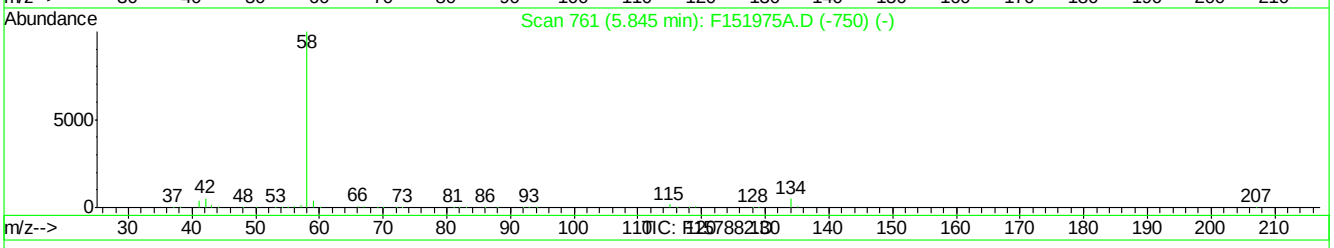
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:17 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.79min 82.67ppm

response 984421

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

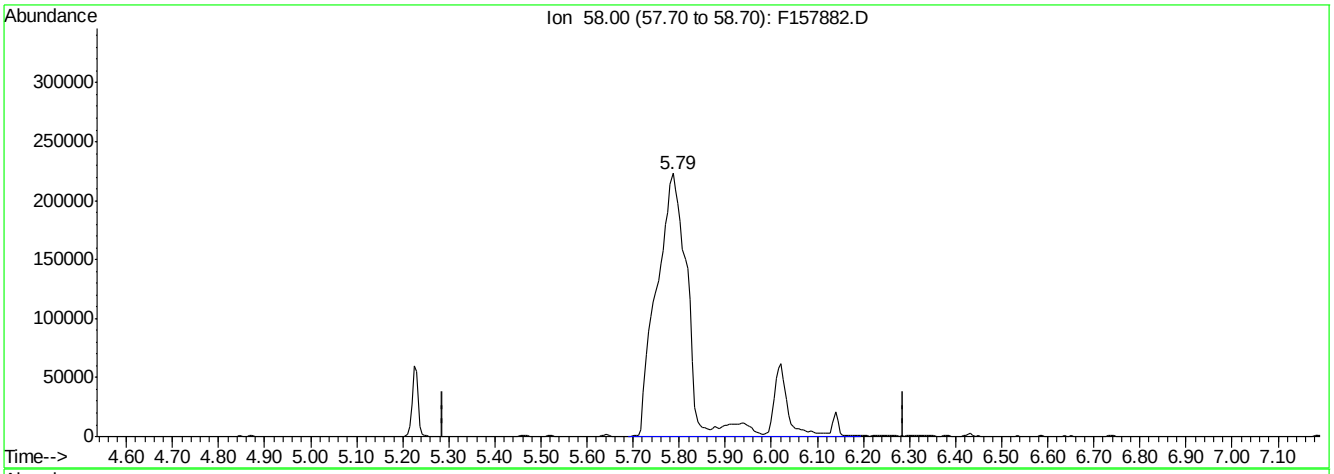
F157882.D MF6644.M Sun Jun 12 11:18:09 2016 RT1

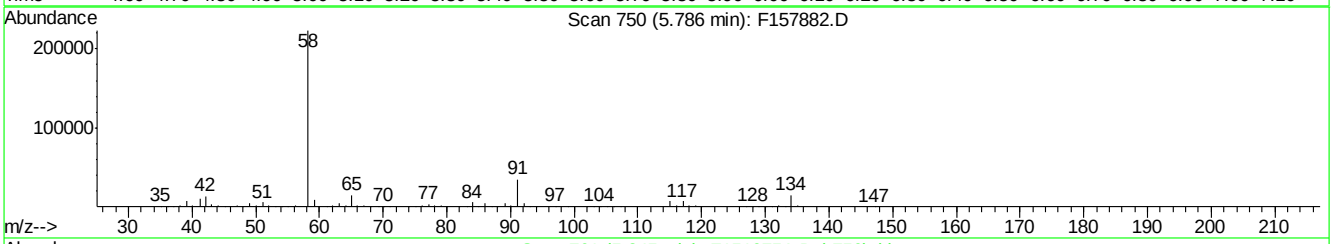
SGS ACCUTEST JC22206

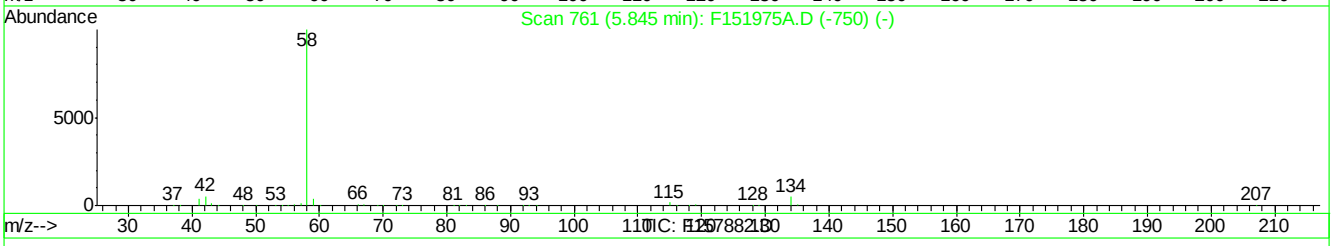
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.79min 99.18ppm m

response 1180994

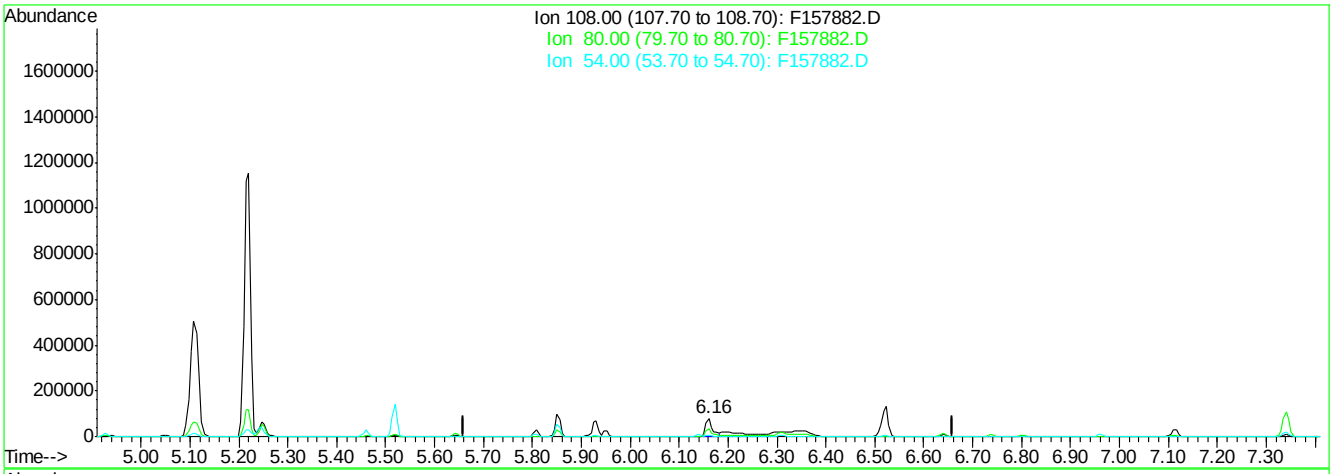
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

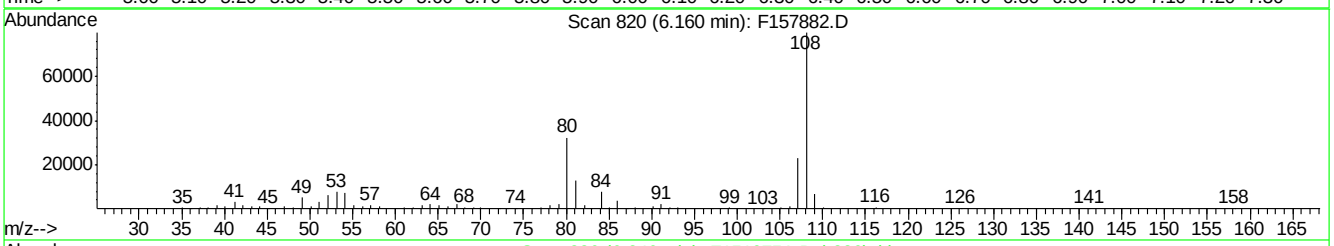
F157882.D MF6644.M Sun Jun 12 11:18:22 2016 RT1

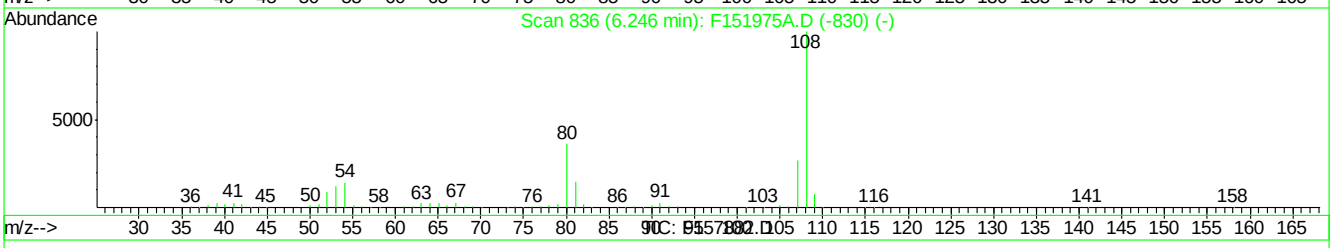
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.16min 29.02ppm

response 80056

Ion	Exp%	Act%
108.00	100	100
80.00	40.30	40.18
54.00	9.00	8.41
0.00	0.00	0.00

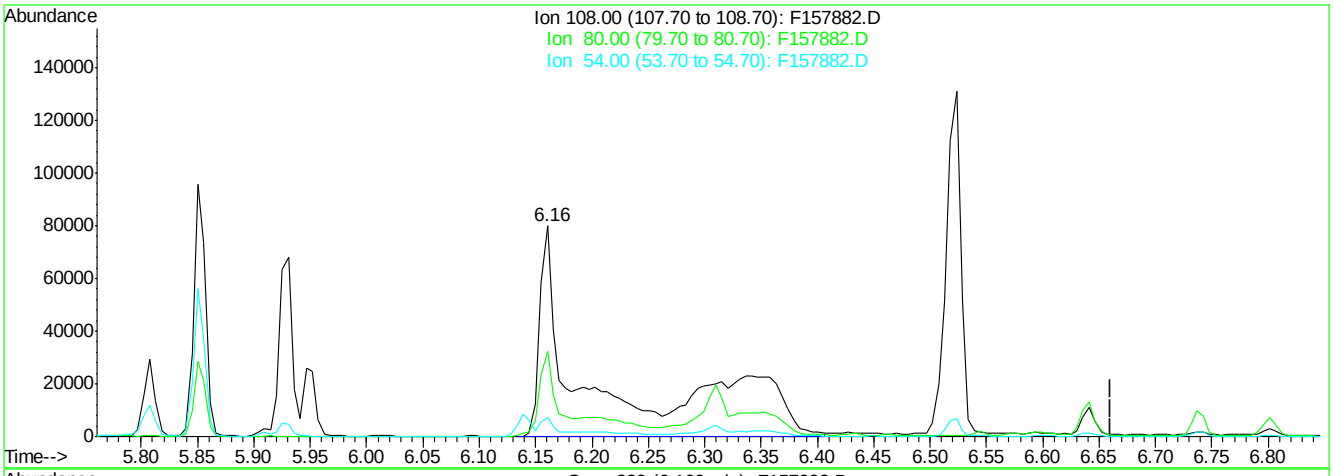
F157882.D MF6644.M Sun Jun 12 11:18:26 2016 RT1

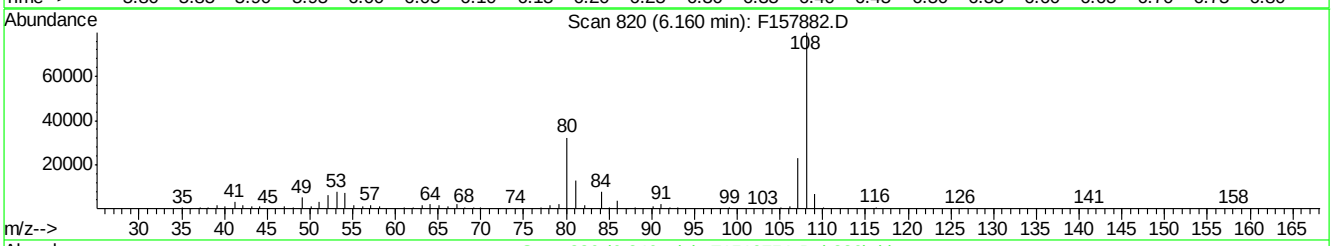
SGS ACCUTEST JC22206

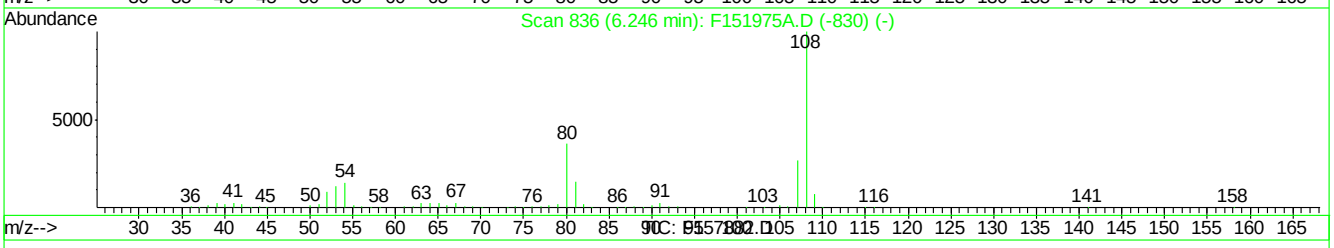
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.16min 98.74ppm m

response 272370

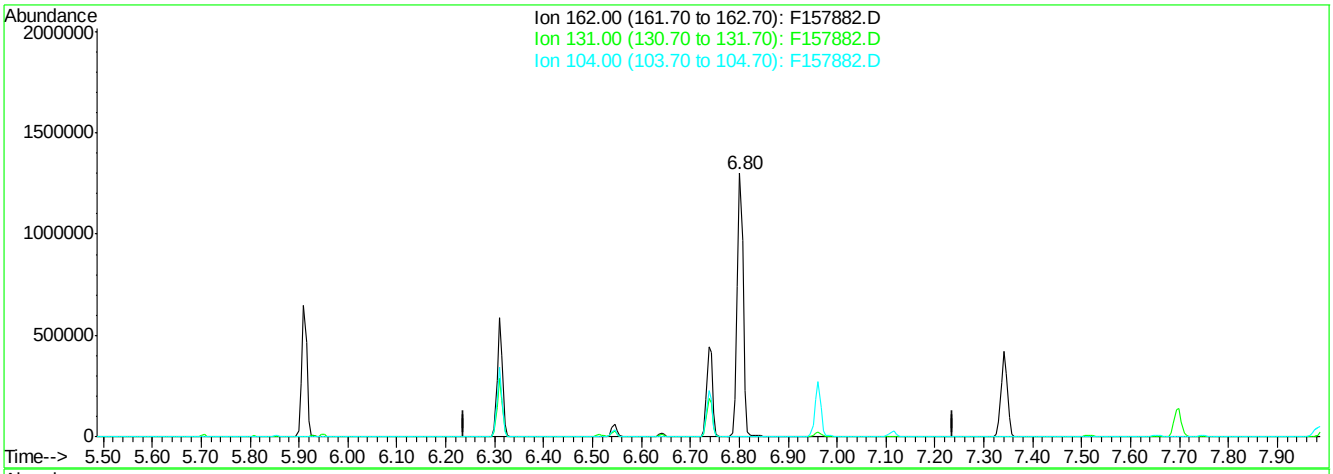
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	40.29
54.00	9.00	9.03
0.00	0.00	0.00

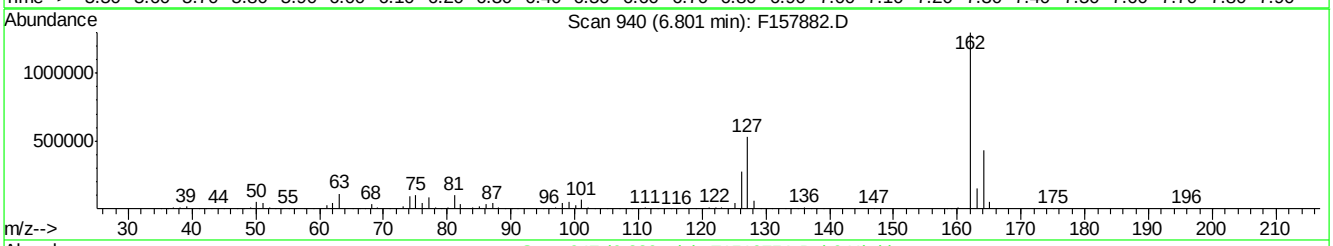
F157882.D MF6644.M Sun Jun 12 11:18:33 2016 RT1

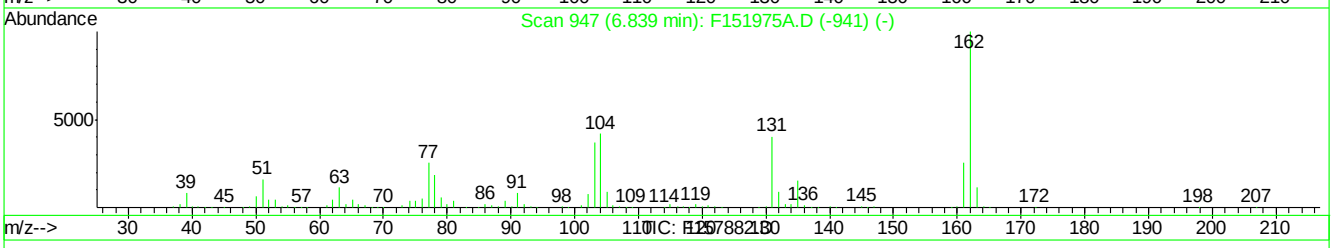
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.80min 290.39ppm

response 1118485

Ion	Exp%	Act%
162.00	100	100
131.00	5.40	1.92
104.00	6.20	20.67
0.00	0.00	0.00

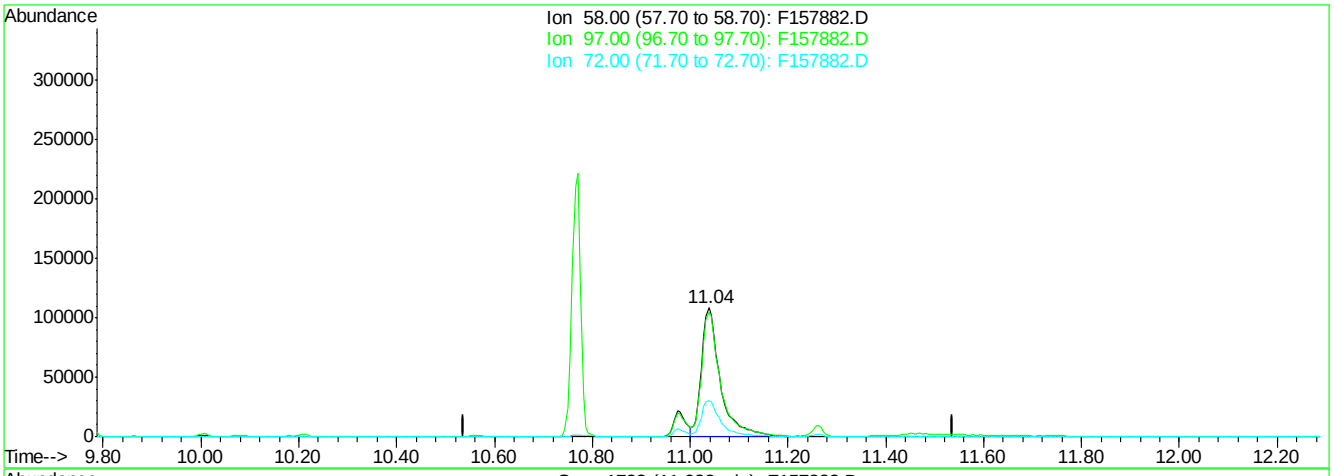
F157882.D MF6644.M Sun Jun 12 11:18:41 2016 RT1

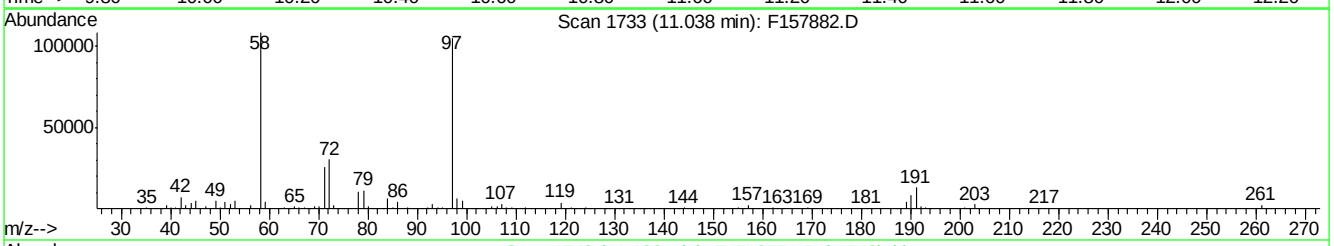
SGS ACCUTEST JC22206

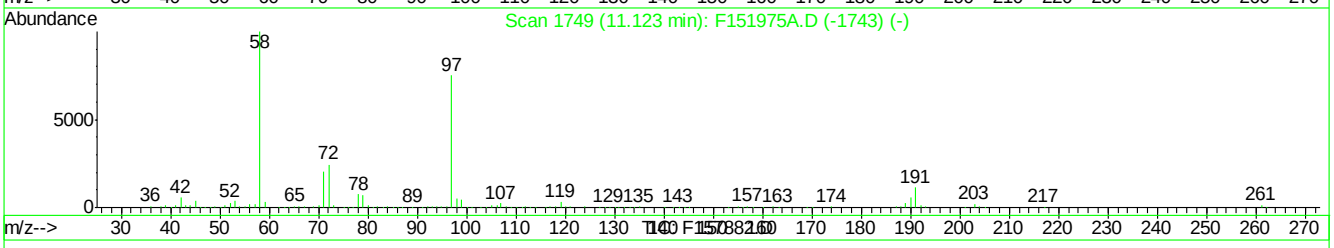
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

11.04min 88.13ppm

response 289547

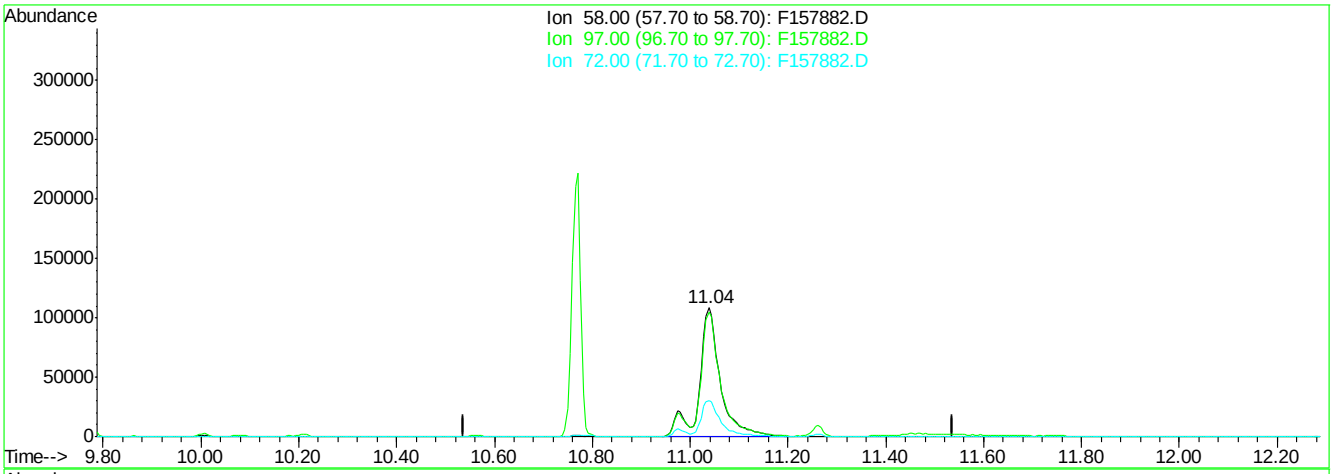
Ion	Exp%	Act%
58.00	100	100
97.00	96.70	96.70
72.00	28.00	27.84
0.00	0.00	0.00

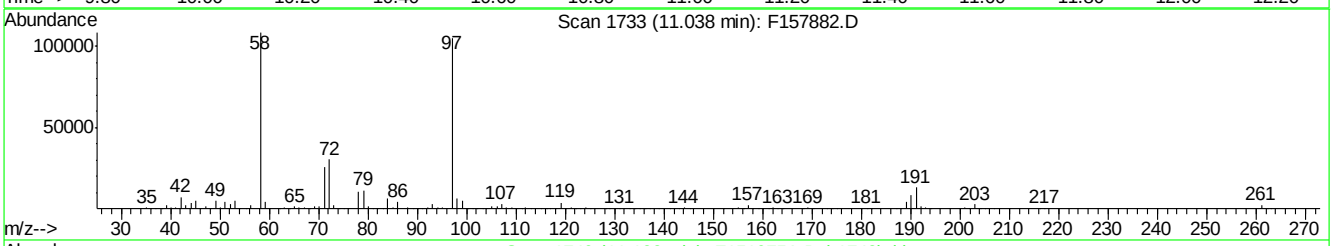
F157882.D MF6644.M Sun Jun 12 11:22:22 2016 RT1

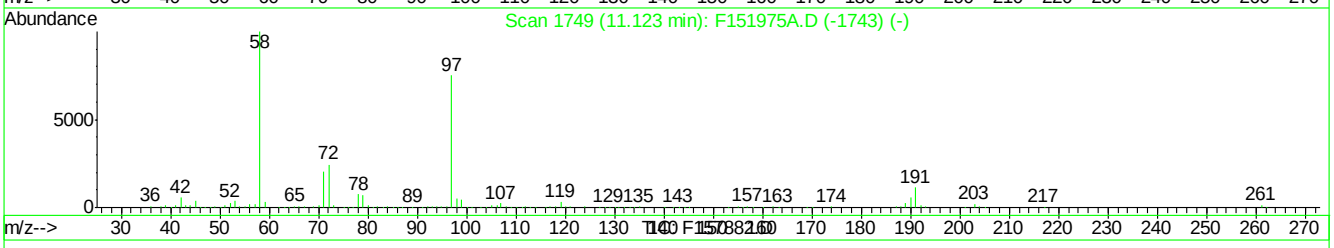
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157882.D Vial: 2
Acq On : 10 Jun 2016 5:01 pm Operator: ashleyd
Sample : ic6647-100 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:22 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:16:55 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

11.04min 99.96ppm m

response 328414

Ion	Exp%	Act%
58.00	100	100
97.00	96.70	96.74
72.00	28.00	27.97
0.00	0.00	0.00

F157882.D MF6644.M Sun Jun 12 11:22:35 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:23:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	170520	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	704492	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	418498	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	641829	40.00	ppm	-0.02
83) Chrysene-d12	14.69	240	562821	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	488571	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.93	152	170520	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	704492	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	418498	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	641829	40.00	ppm	0.00
147) Chrysene-d12A	14.69	240	562821	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	488571	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	170520	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	704492	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	418498	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	641829	40.00	ppm	-0.02
167) Chrysene-d12b	14.69	240	562821	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.93	152	170520	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	704492	40.00	ppm	-0.01
176) Chrysene-d12c	14.69	240	562821	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	704492	40.00	ppm	-0.01
180) Chrysene-d12B	14.69	240	562821	40.00	ppm	-0.03

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	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) 2-Picoline	3.47	93	586212	75.90	ppm	100
104) Pentachloroethane	4.72	167	177279	79.74	ppm	99
105) Methyl methanesulfonate	3.81	80	269846	76.77	ppm	99
106) N-Nitrosodiethylamine	4.12	102	257924	76.86	ppm	97
107) N-Nitrosomethylethylamine	3.56	42	147714	71.87	ppm	96
108) Ethyl methanesulfonate	4.35	79	380542	75.50	ppm	98
109) N-Nitrosopyrrolidine	5.22	41	137027m	96.51	ppm	
110) N-Nitrosomorpholine	5.24	56	195523	76.08	ppm	96
111) o-Toluidine	5.25	106	723571	78.55	ppm	92
113) O,O,O-Triethyl phosphoroth	5.64	198	206509	82.20	ppm	94
114) N-Nitrosopiperidine	5.46	42	192285	77.77	ppm	91
115) A,A-Dimethylphenethylamine	5.79	58	943637m	78.91	ppm	

(#) = qualifier out of range (m) = manual integration
F157883.D MF6644.M Sun Jun 12 12:08:13 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:23:44 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116)	Hexachloropropene	5.93	213	262164	82.50	ppm	99
117)	p-Phenylenediamine	6.15	108	225783m	81.51	ppm	
118)	N-Nitrosodi-n-butylamine	6.14	84	329863	79.28	ppm	99
119)	Safrole	6.31	162	363746	81.47	ppm	98
120)	Isosafrole	6.74	162	312894m	80.89	ppm	
122)	Thionazin	7.92	143	127210	77.69	ppm	98
123)	Tetraethyl dithiopyrophosp	8.34	322	113101	79.81	ppm	100
124)	Phorate	8.53	75	637042	80.94	ppm	100
125)	Phenacetin	8.56	108	556490	79.83	ppm	98
126)	1,4-Naphthoquinone	6.96	158	317139	84.92	ppm	95
127)	m-Dinitrobenzene	7.08	168	158185	80.09	ppm	94
128)	Pentachlorobenzene	7.52	250	308109	82.07	ppm	100
129)	1-Naphthylamine	7.65	143	774948	80.79	ppm	99
130)	2-Naphthylamine	7.75	143	926911	82.62	ppm	100
131)	5-Nitro-o-toluidine	7.98	152	296405	78.83	ppm	99
133)	Disulfoton	9.35	88	544162	81.46	ppm	100
134)	Dinoseb	9.33	211	220632	80.57	ppm	97
135)	Dimethoate	8.79	87	407762	82.78	ppm	98
136)	4-Aminobiphenyl	9.03	169	975949	166.39	ppm	100
137)	Methyl parathion	10.00	125	264926	82.08	ppm	98
138)	Parathion	10.76	109	220033	80.07	ppm	99
139)	Diphenylamine	8.12	169	1469654	164.67	ppm	100
140)	Isodrin	11.26	193	152338	81.37	ppm	99
141)	Diallate	8.65	86	81638	65.58	ppm	97
142)	Pentachloronitrobenzene	9.04	295	82476	164.44	ppm	99
143)	Pronamide	9.14	173	444984	81.51	ppm	99
144)	4-Nitroquinoline 1-oxide	10.79	190	578332	323.75	ppm	99
145)	Methapyriline	11.02	58	274757m	84.90	ppm	
146)	sym-Trinitrobenzene	8.47	213	112239	80.72	ppm	94
148)	Aramite	12.67	185	91500	161.17	ppm	99
149)	p-(Dimethylamine)azobenzen	12.77	120	510864	81.56	ppm	98
150)	Kepone	13.50	272	262957	530.62	ppm	99
151)	Famphur	13.46	218	1252057	545.42	ppm	99
152)	2-Acetylaminofluorene	14.07	181	613437	79.97	ppm	100
153)	3,3'-Dimethylbenzidine	13.52	212	167669	100.68	ppm	99
154)	Chlorobenzilate	12.91	251	362061	82.40	ppm	99
156)	4,4-Methylene-bis-(2-chlor	14.75	266	103713	83.05	ppm	100
157)	3-Methylcholanthrene	18.36	268	603318	77.96	ppm	98
158)	Hexachlorophene	17.49	196	434717	411.39	ppm	98

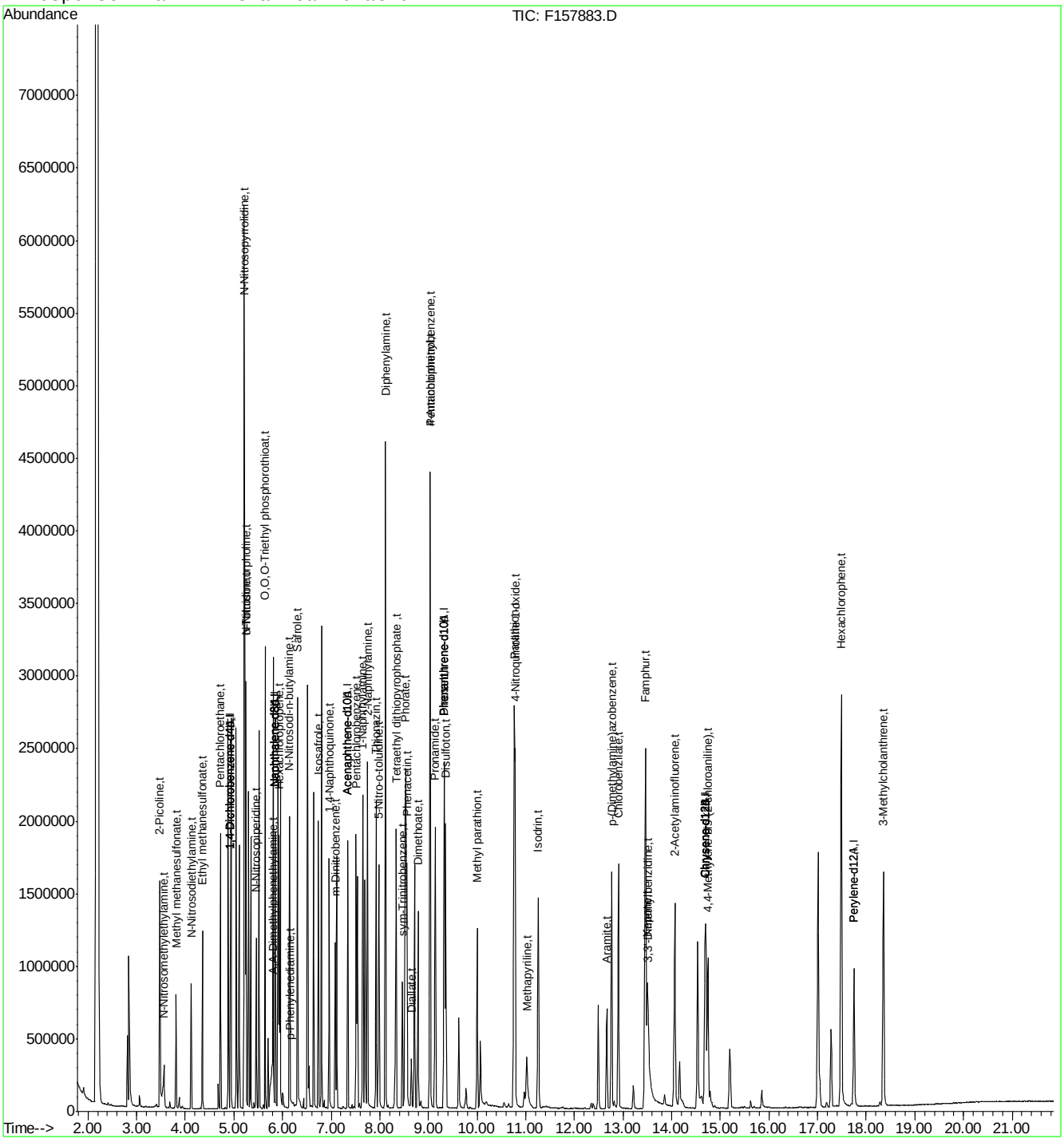
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:07 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:54:34 2016
Response via : Initial Calibration



Manual Integration Approval Summary

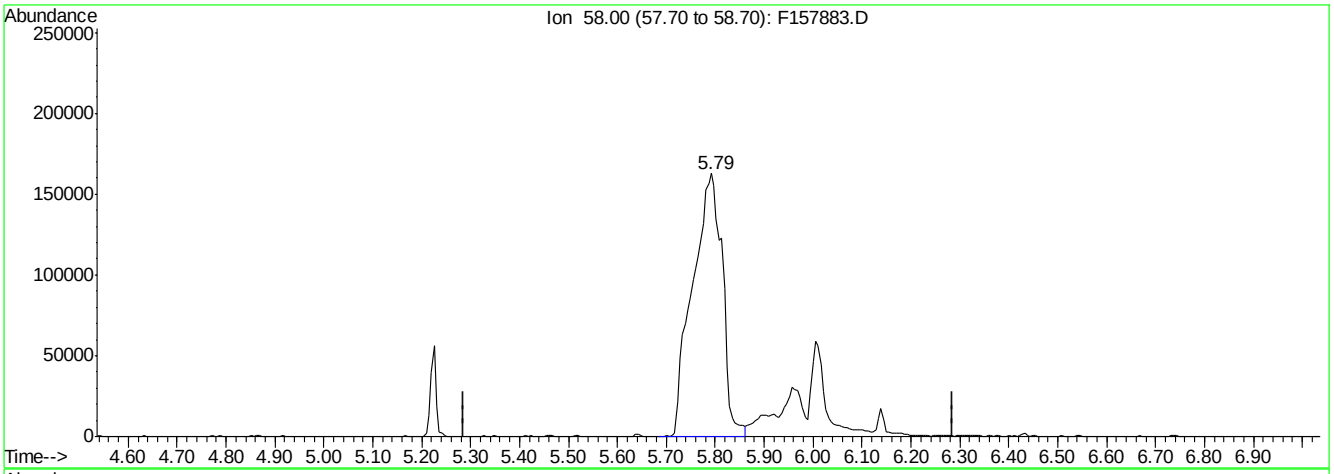
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157883.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 17:30	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

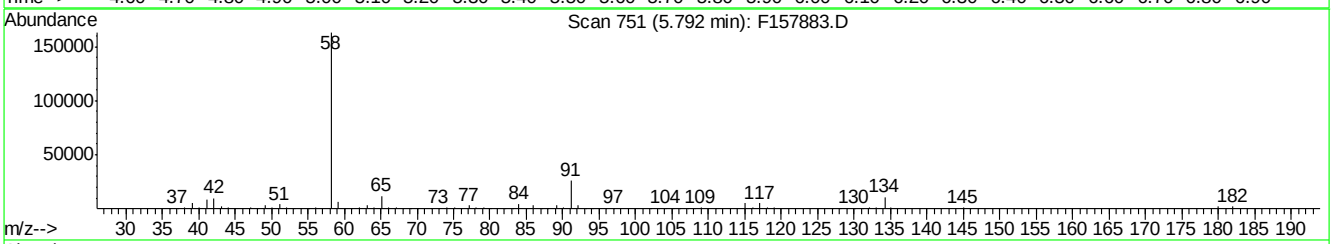
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.22	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.79	Split peak
p-Phenylenediamine	106-50-3		6.15	Split peak
Isosafrole	120-58-1		6.74	Poor instrument integration
Methapyrilene	91-80-5		11.02	Split peak

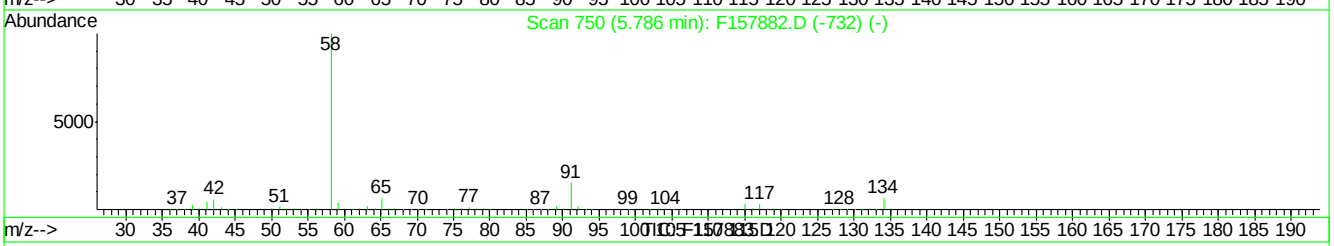
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.79min 57.26ppm

response 684720

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

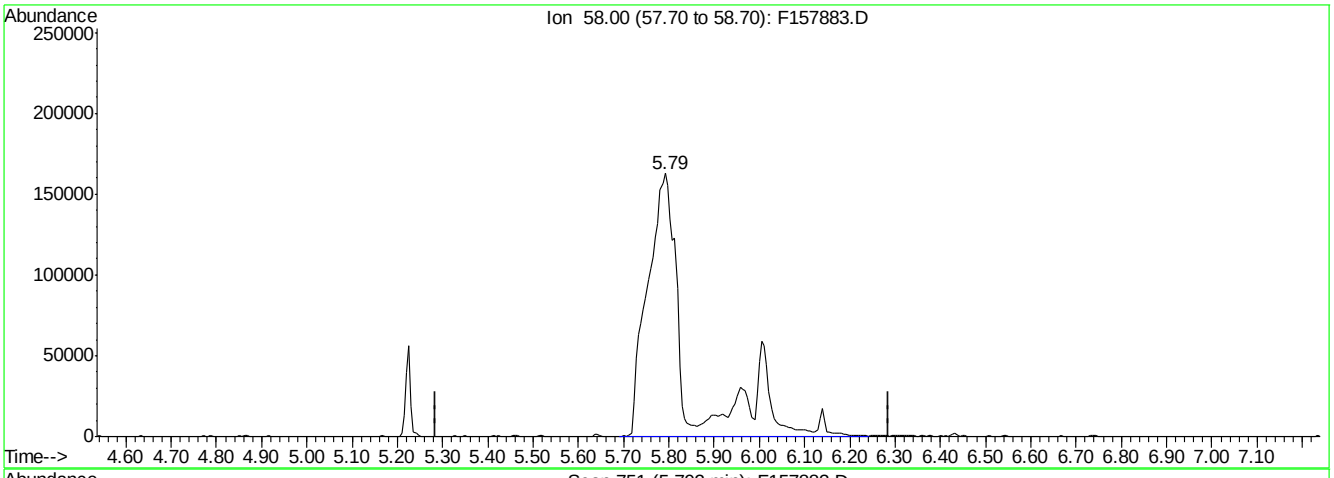
F157883.D MF6644.M Sun Jun 12 11:24:44 2016 RT1

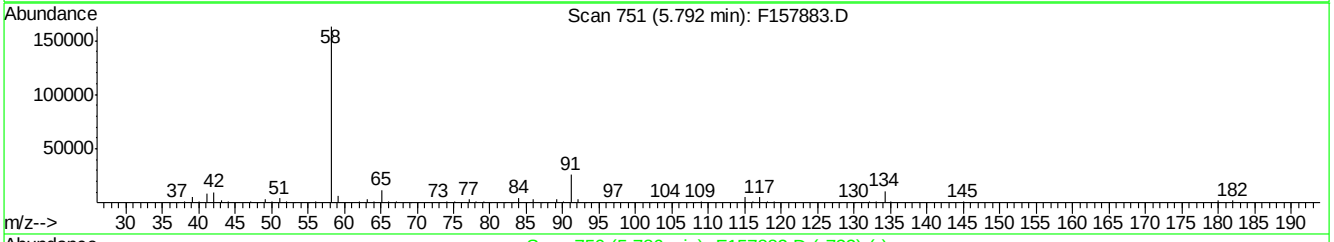
SGS ACCUTEST JC22206

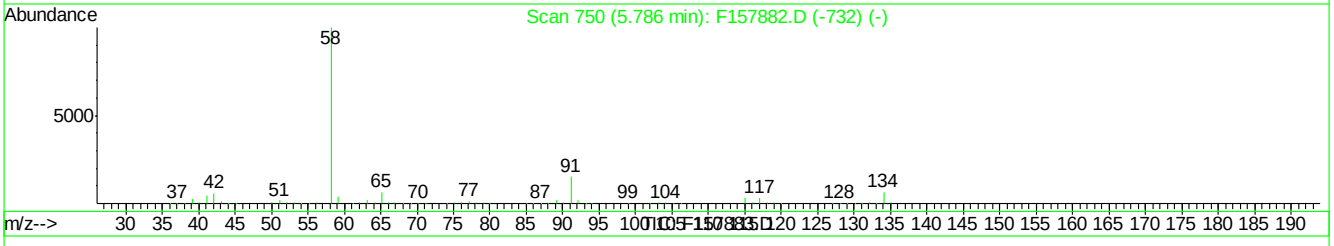
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.79min 78.91ppm m

response 943637

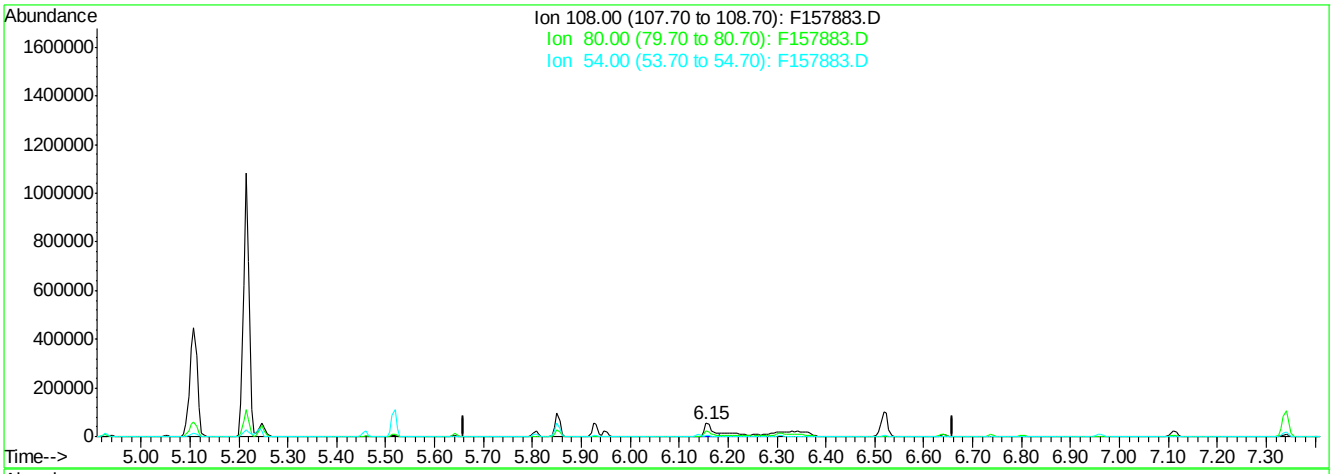
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

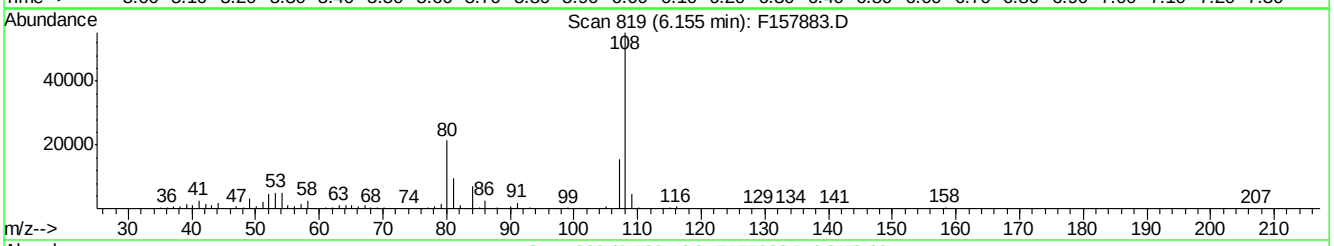
F157883.D MF6644.M Sun Jun 12 11:24:56 2016 RT1

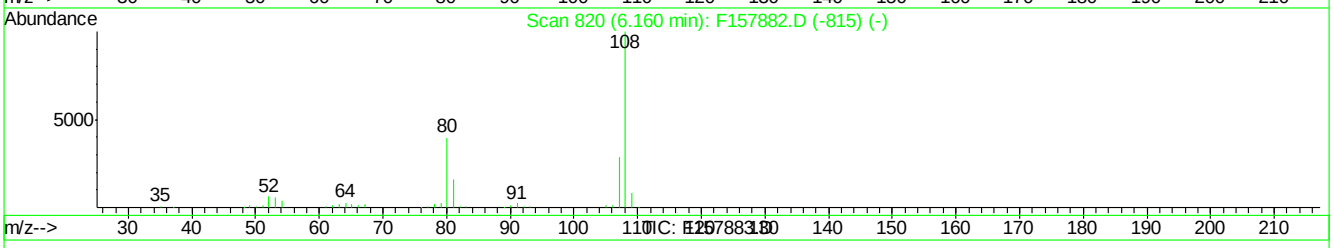
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 22.88ppm

response 63390

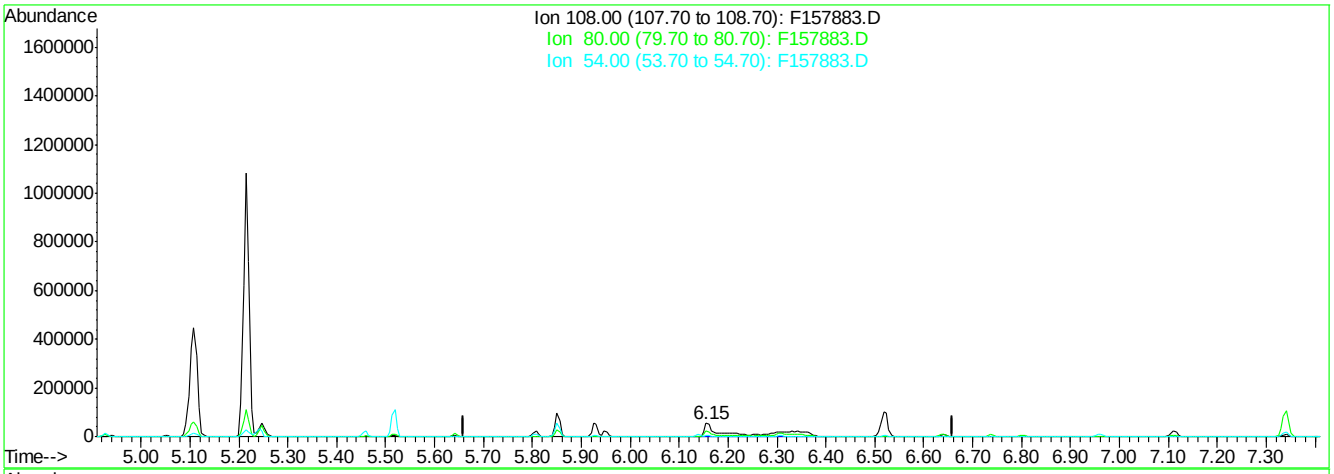
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	38.74
54.00	9.00	8.58
0.00	0.00	0.00

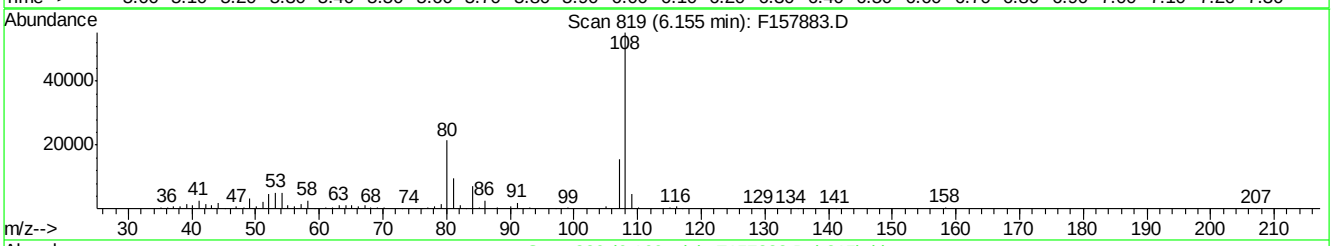
F157883.D MF6644.M Sun Jun 12 11:25:01 2016 RT1

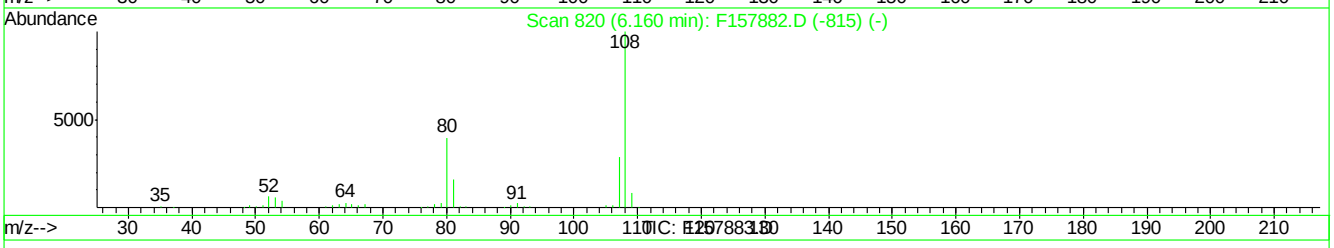
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 81.51ppm m

response 225783

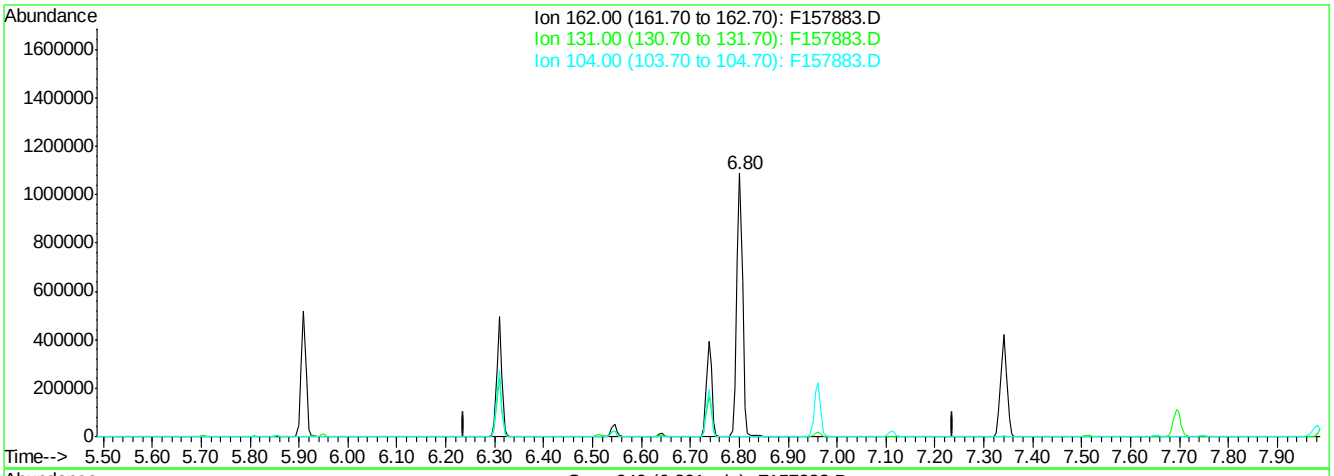
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	38.96
54.00	9.00	9.39
0.00	0.00	0.00

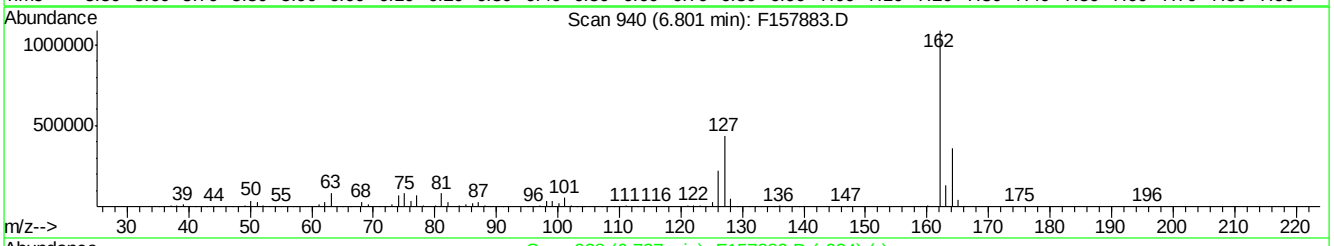
F157883.D MF6644.M Sun Jun 12 11:25:20 2016 RT1

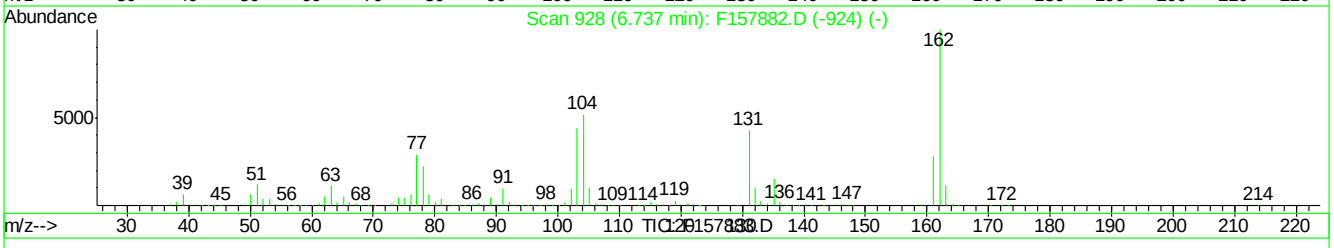
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.80min 236.14ppm

response 913405

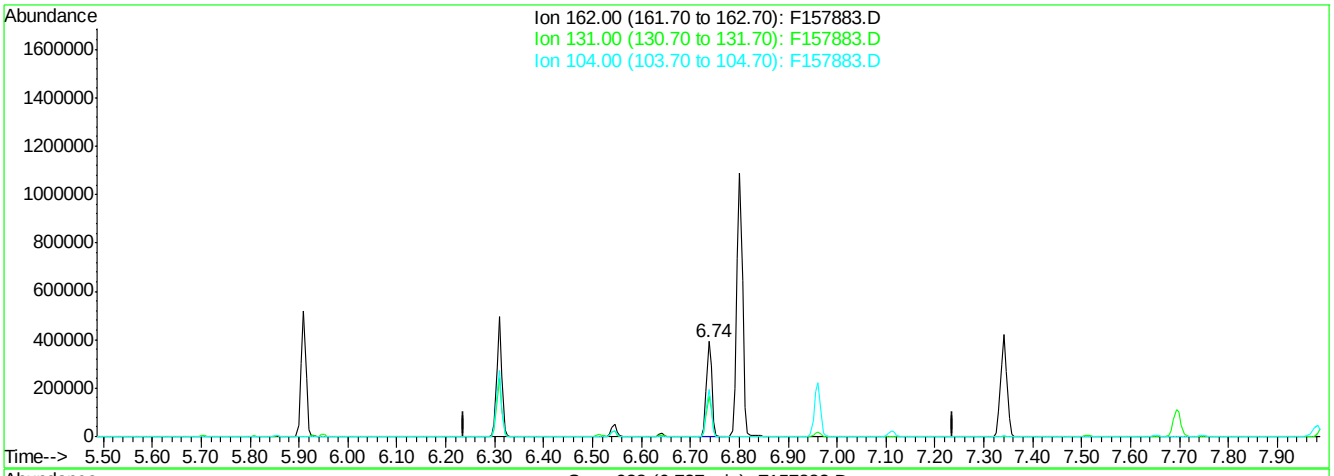
Ion	Exp%	Act%
162.00	100	100
131.00	5.40	1.87
104.00	6.20	21.24
0.00	0.00	0.00

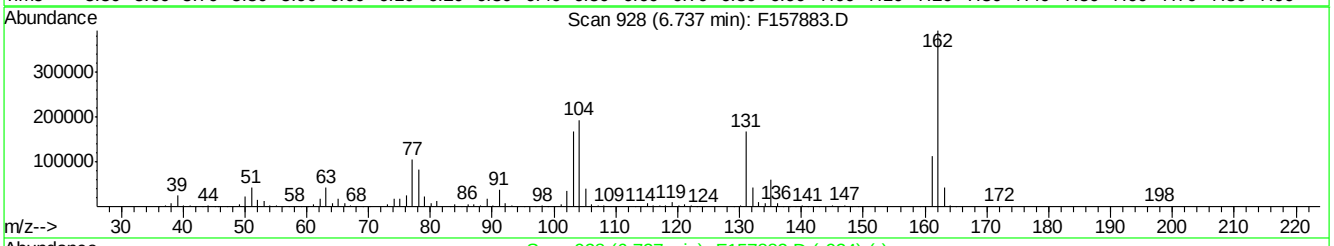
F157883.D MF6644.M Sun Jun 12 11:25:25 2016 RT1

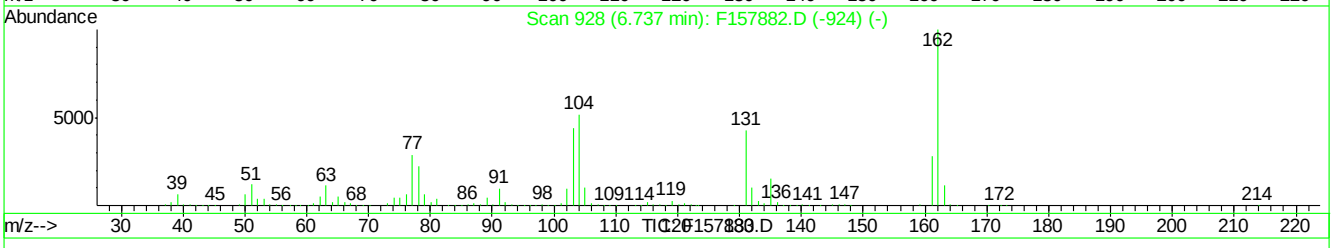
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.74min 80.89ppm m

response 312894

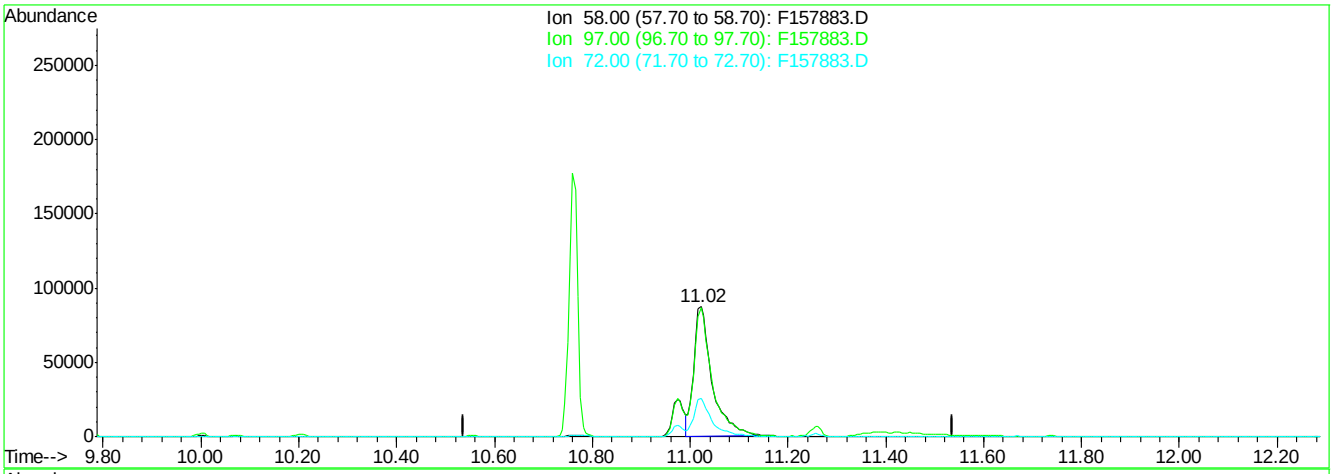
Ion	Exp%	Act%
162.00	100	100
131.00	5.40	5.47
104.00	6.20	62.02#
0.00	0.00	0.00

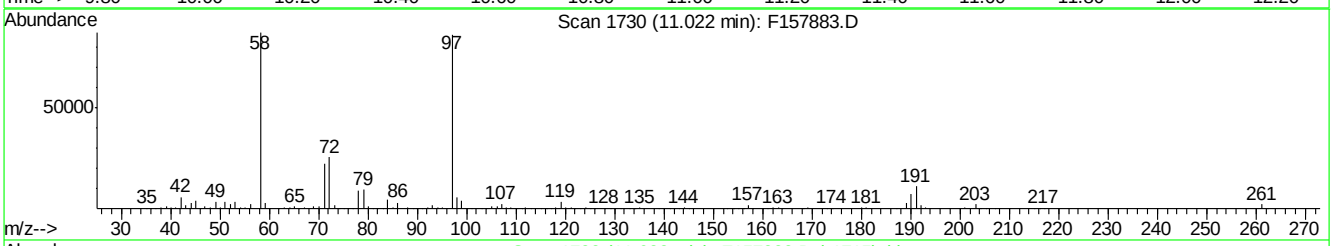
F157883.D MF6644.M Sun Jun 12 11:25:37 2016 RT1

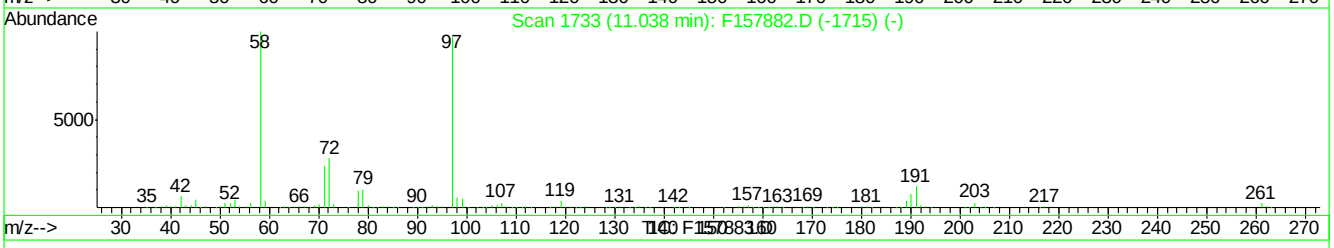
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

11.02min 71.16ppm

response 230298

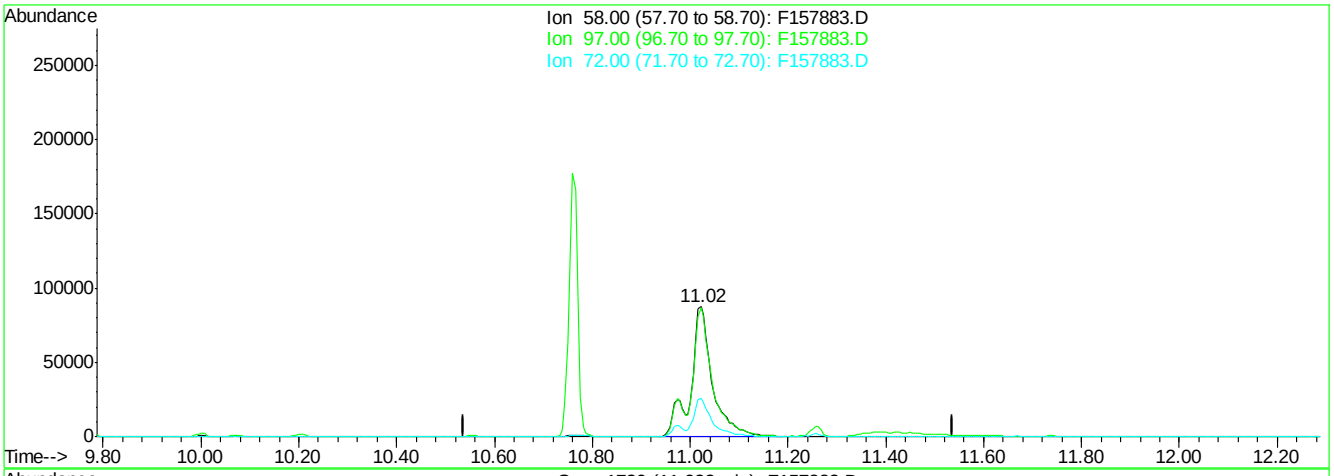
Ion	Exp%	Act%
58.00	100	100
97.00	96.70	98.83
72.00	28.00	29.45
0.00	0.00	0.00

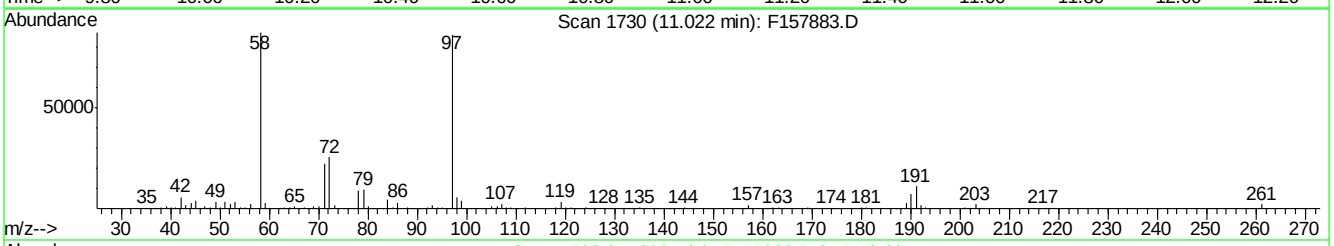
F157883.D MF6644.M Sun Jun 12 11:25:56 2016 RT1

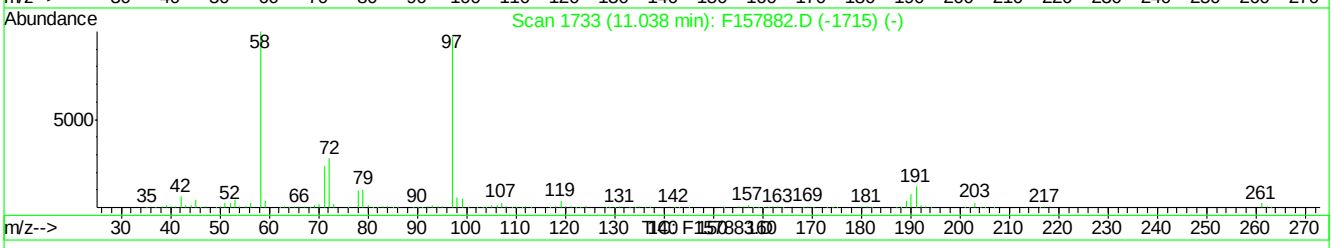
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

11.02min 84.90ppm m

response 274757

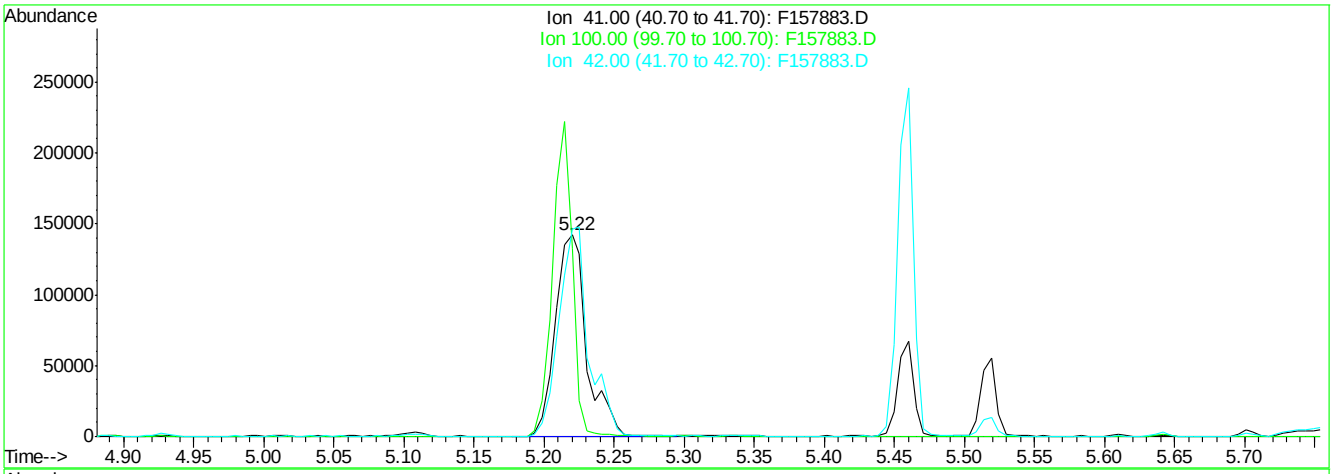
Ion	Exp%	Act%
58.00	100	100
97.00	96.70	99.06
72.00	28.00	29.37
0.00	0.00	0.00

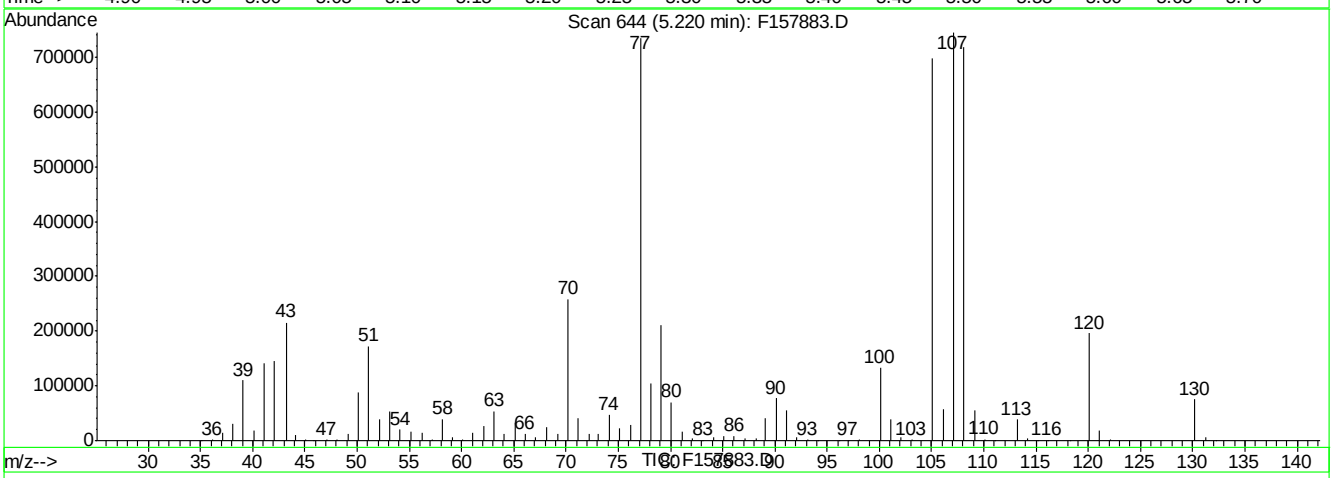
F157883.D MF6644.M Sun Jun 12 11:26:11 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:26 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:54:34 2016
Response via : Multiple Level Calibration





(109) N-Nitrosopyrrolidine (t)

5.22min 155.61ppm

response 220938

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	93.64#
42.00	93.10	102.88
0.00	0.00	0.00

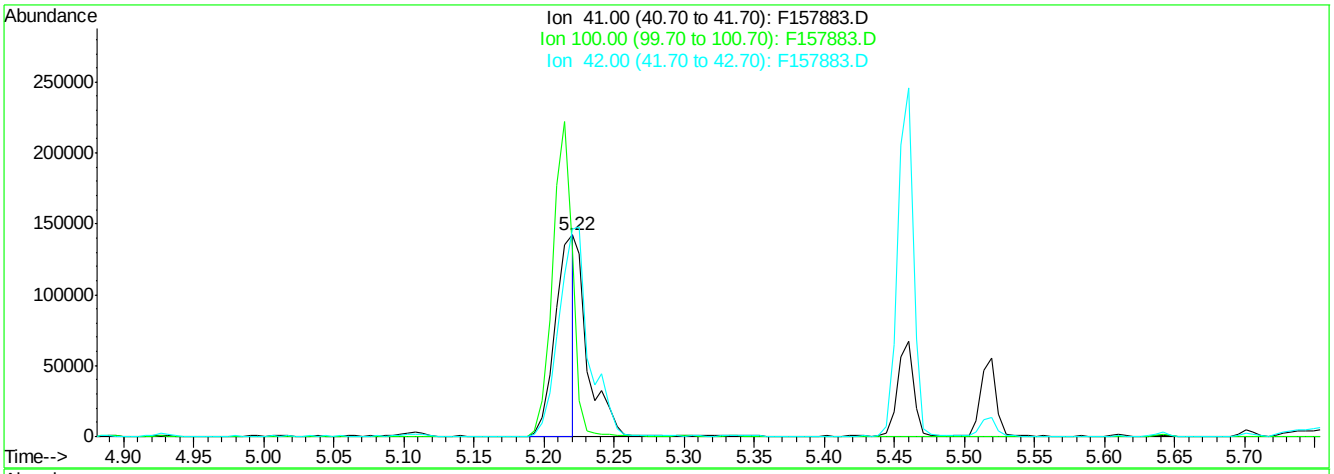
F157883.D MF6644.M Sun Jun 12 12:07:53 2016 RT1

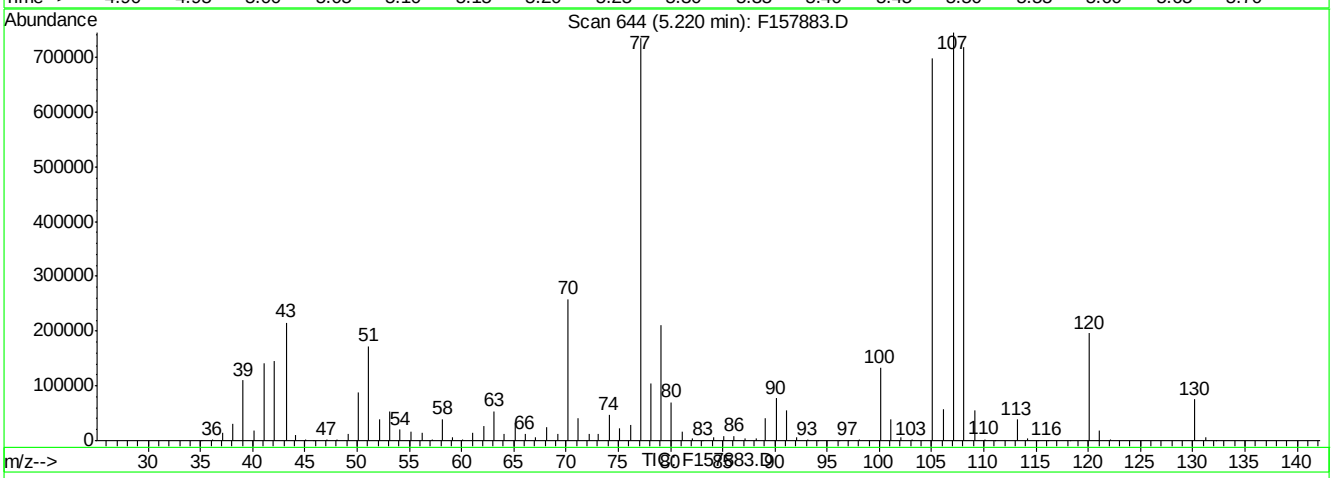
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157883.D Vial: 3
Acq On : 10 Jun 2016 5:30 pm Operator: ashleyd
Sample : ic6647-80 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:07 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:54:34 2016
Response via : Multiple Level Calibration





(109) N-Nitrosopyrrolidine (t)

5.22min 96.51ppm m

response 137027

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	93.56#
42.00	93.10	102.88
0.00	0.00	0.00

F157883.D MF6644.M Sun Jun 12 12:08:08 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:26:41 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	167130	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	695908	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	405169	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	628765	40.00	ppm	-0.02
83) Chrysene-d12	14.69	240	550601	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	479897	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	167130	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	695908	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	405169	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	628765	40.00	ppm	0.00
147) Chrysene-d12A	14.69	240	550601	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	479897	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	167130	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	695908	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	405169	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	628765	40.00	ppm	-0.02
167) Chrysene-d12b	14.69	240	550601	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.93	152	167130	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	695908	40.00	ppm	-0.01
176) Chrysene-d12c	14.69	240	550601	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	695908	40.00	ppm	-0.01
180) Chrysene-d12B	14.69	240	550601	40.00	ppm	-0.03

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	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) 2-Picoline	3.47	93	368409	48.67	ppm	100
104) Pentachloroethane	4.72	167	110767	50.83	ppm	97
105) Methyl methanesulfonate	3.81	80	170359	49.45	ppm	100
106) N-Nitrosodiethylamine	4.12	102	162691	49.46	ppm	99
107) N-Nitrosomethylethylamine	3.56	42	91698	45.52	ppm	97
108) Ethyl methanesulfonate	4.35	79	242698	49.13	ppm	99
109) N-Nitrosopyrrolidine	5.21	41	88471m	63.57	ppm	
110) N-Nitrosomorpholine	5.24	56	126726	50.31	ppm	98
111) o-Toluidine	5.25	106	506298	56.08	ppm	66
113) O,O,O-Triethyl phosphoroth	5.64	198	130280	52.50	ppm	89
114) N-Nitrosopiperidine	5.45	42	120401	49.30	ppm	97
115) A,A-Dimethylphenethylamine	5.79	58	577390m	48.88	ppm	

(#) = qualifier out of range (m) = manual integration
F157884.D MF6644.M Sun Jun 12 11:37:25 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:26:41 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

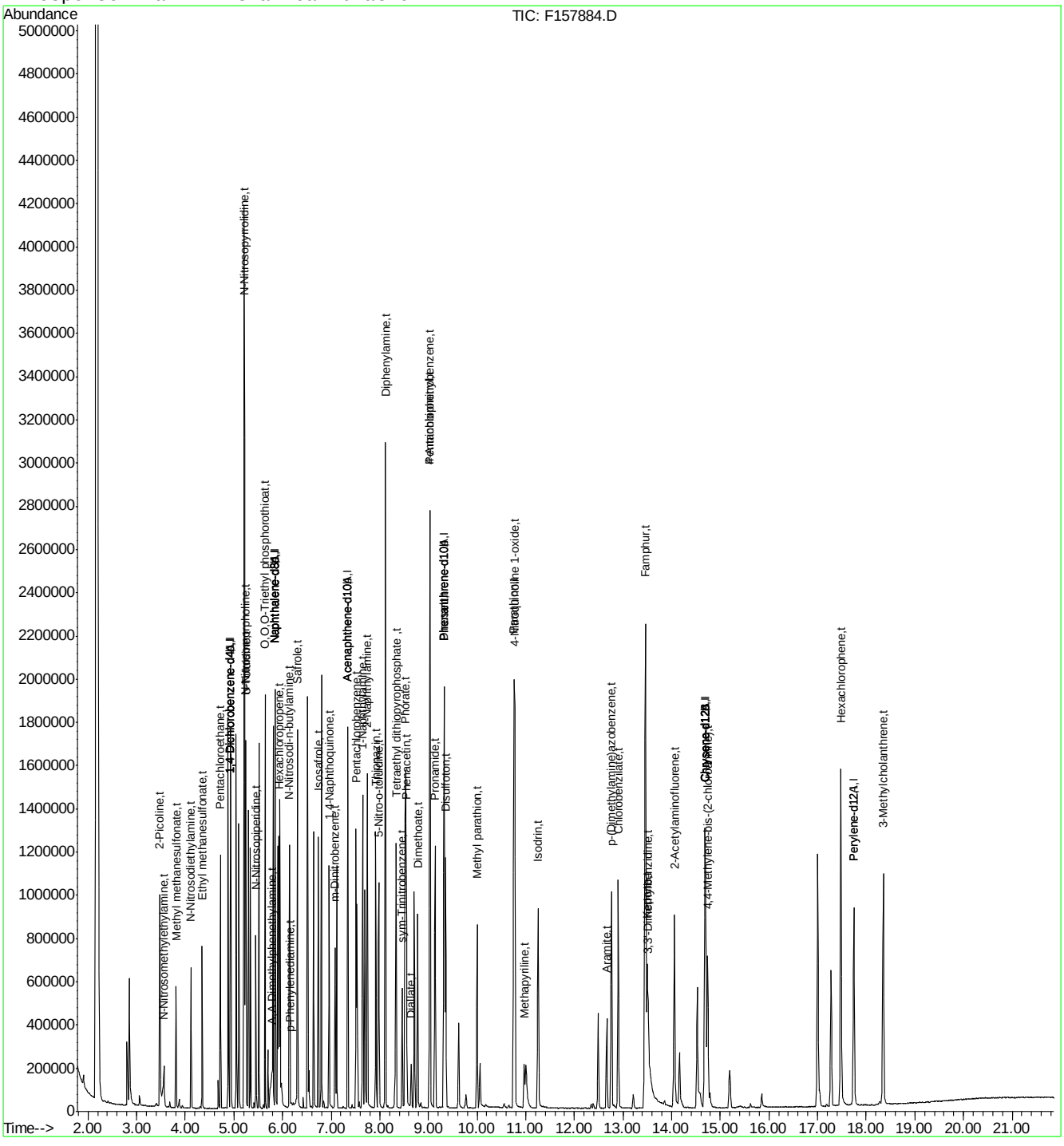
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116)	Hexachloropropene	5.93	213	160761	51.21	ppm	99
117)	p-Phenylenediamine	6.15	108	140734m	51.43	ppm	
118)	N-Nitrosodi-n-butylamine	6.14	84	210090	51.12	ppm	98
119)	Safrole	6.31	162	226113	51.27	ppm	96
120)	Isosafrole	6.74	162	195402m	51.14	ppm	
122)	Thionazin	7.92	143	78317	49.40	ppm	94
123)	Tetraethyl dithiopyrophosp	8.33	322	71887	52.40	ppm	100
124)	Phorate	8.53	75	400150	52.52	ppm	100
125)	Phenacetin	8.55	108	341403	50.59	ppm	99
126)	1,4-Naphthoquinone	6.96	158	206390	57.08	ppm	94
127)	m-Dinitrobenzene	7.08	168	94902	49.63	ppm	97
128)	Pentachlorobenzene	7.51	250	190925	52.53	ppm	99
129)	1-Naphthylamine	7.65	143	482741	51.98	ppm	96
130)	2-Naphthylamine	7.74	143	586268	53.97	ppm	99
131)	5-Nitro-o-toluidine	7.98	152	180168	49.49	ppm	98
133)	Disulfoton	9.35	88	342898	52.40	ppm	97
134)	Dinoseb	9.32	211	127120	47.39	ppm	96
135)	Dimethoate	8.78	87	261532	54.20	ppm	98
136)	4-Aminobiphenyl	9.03	169	619666	107.84	ppm	100
137)	Methyl parathion	10.00	125	168710	53.35	ppm	97
138)	Parathion	10.75	109	137361	51.02	ppm	100
139)	Diphenylamine	8.12	169	927552	106.09	ppm	99
140)	Isodrin	11.26	193	94288	51.41	ppm	99
141)	Diallate	8.64	86	50593	41.48	ppm	94
142)	Pentachloronitrobenzene	9.03	295	50552	102.88	ppm	98
143)	Pronamide	9.14	173	270197	50.52	ppm	99
144)	4-Nitroquinoline 1-oxide	10.78	190	347520	198.58	ppm	98
145)	Methapyriline	10.97	58	198497m	62.61	ppm	
146)	sym-Trinitrobenzene	8.46	213	64895	47.64	ppm	84
148)	Aramite	12.67	185	54471	98.08	ppm	99
149)	p-(Dimethylamine)azobenzen	12.76	120	314589	51.34	ppm	98
150)	Kepone	13.49	272	197131	406.62	ppm	95
151)	Famphur	13.46	218	1080840	481.28	ppm	97
152)	2-Acetylaminofluorene	14.06	181	364637	48.59	ppm	100
153)	3,3'-Dimethylbenzidine	13.52	212	142413	87.41	ppm	98
154)	Chlorobenzilate	12.90	251	218867	50.92	ppm	97
156)	4,4-Methylene-bis-(2-chlor	14.75	266	69155	56.38	ppm	98
157)	3-Methylcholanthrene	18.35	268	370687	48.77	ppm	98
158)	Hexachlorophene	17.48	196	208903	201.27	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:37 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

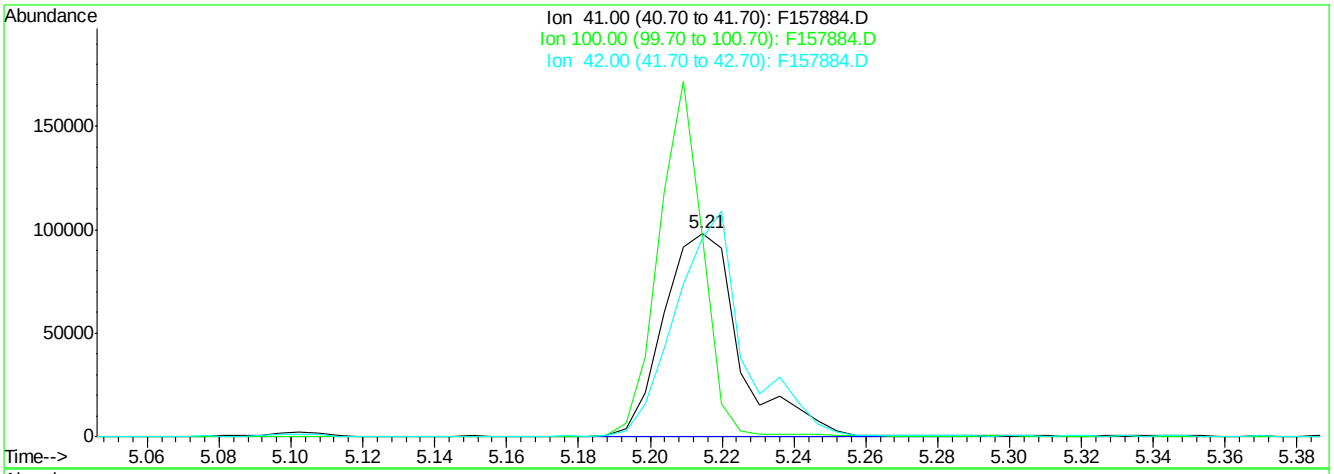
Sample Number:	EF6647-ICC6647	**Method:**	SW846 8270D
Lab FileID:	F157884.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 18:00	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

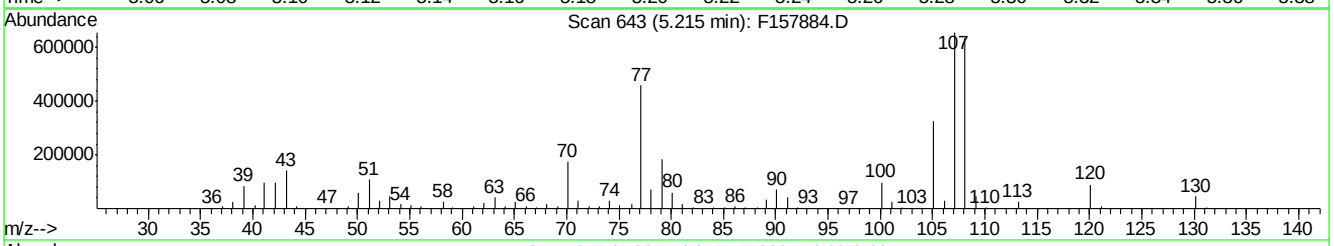
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.21	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.79	Split peak
p-Phenylenediamine	106-50-3		6.15	Split peak
Isosafrole	120-58-1		6.74	Poor instrument integration
Methapyrilene	91-80-5		10.97	Split peak

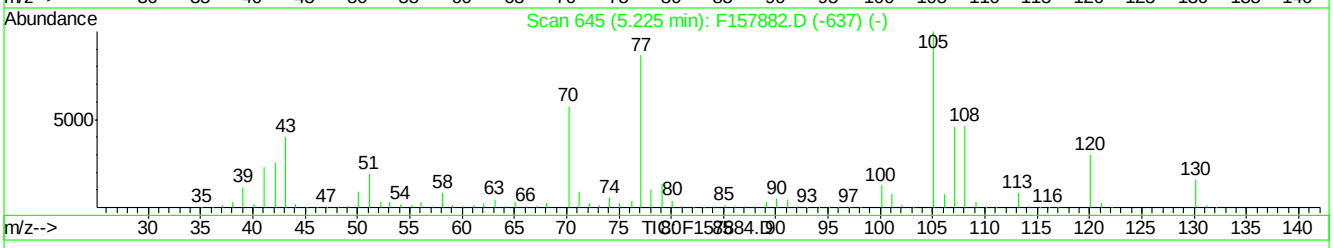
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:35 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 105.97ppm

response 147469

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	98.45#
42.00	93.10	97.82
0.00	0.00	0.00

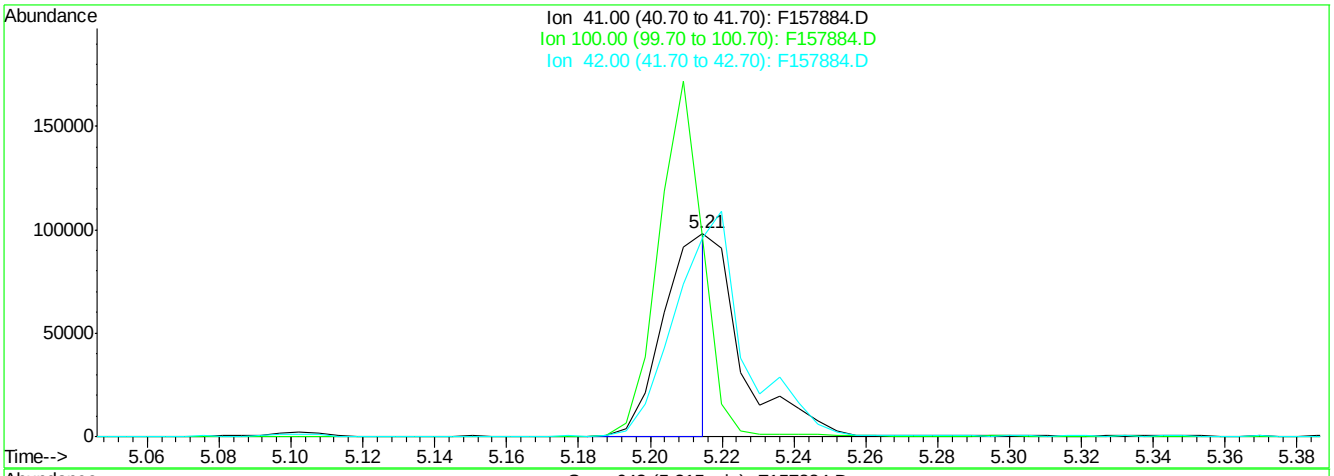
F157884.D MF6644.M Sun Jun 12 11:35:24 2016 RT1

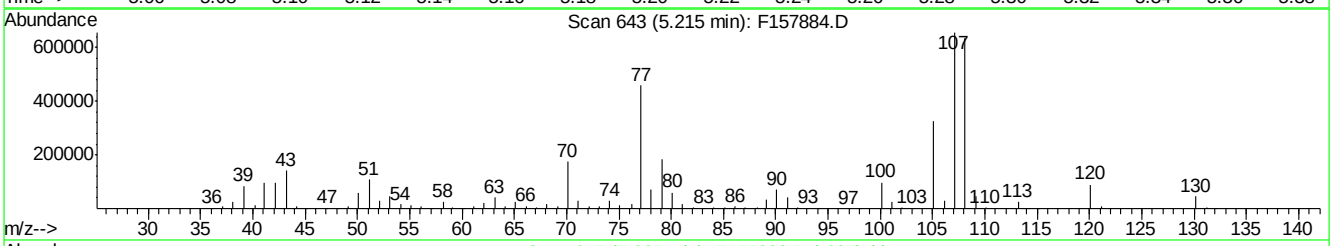
SGS ACCUTEST JC22206

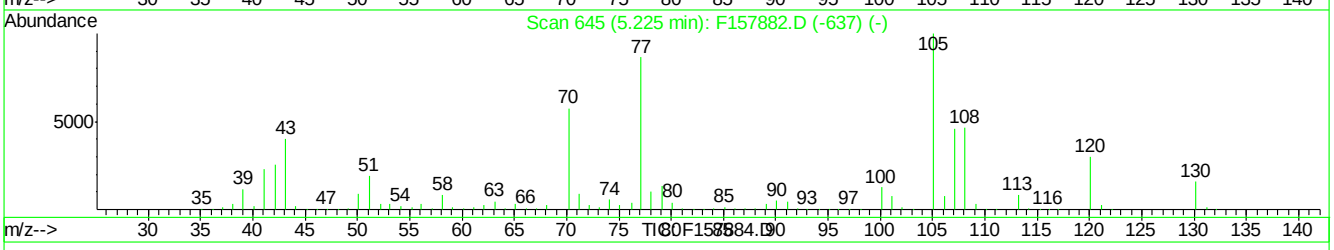
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:35 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 63.57ppm m

response 88471

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	98.40#
42.00	93.10	97.83
0.00	0.00	0.00

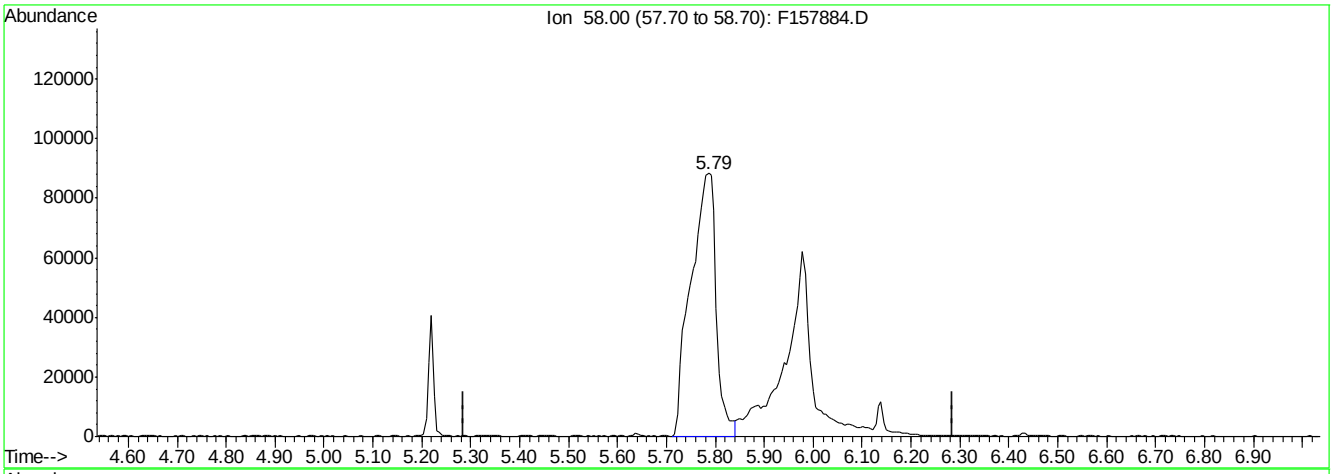
F157884.D MF6644.M Sun Jun 12 11:35:35 2016 RT1

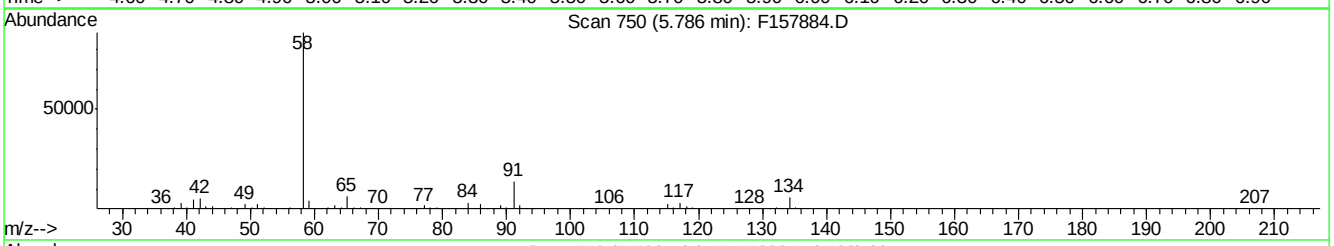
SGS ACCUTEST JC22206

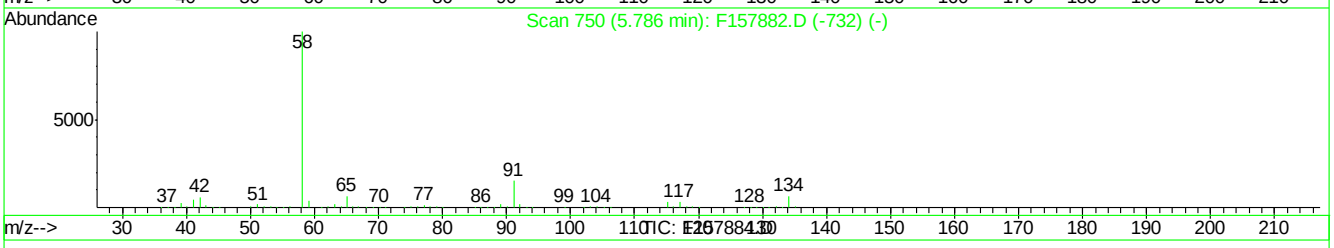
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:35 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.79min 27.12ppm

response 320334

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

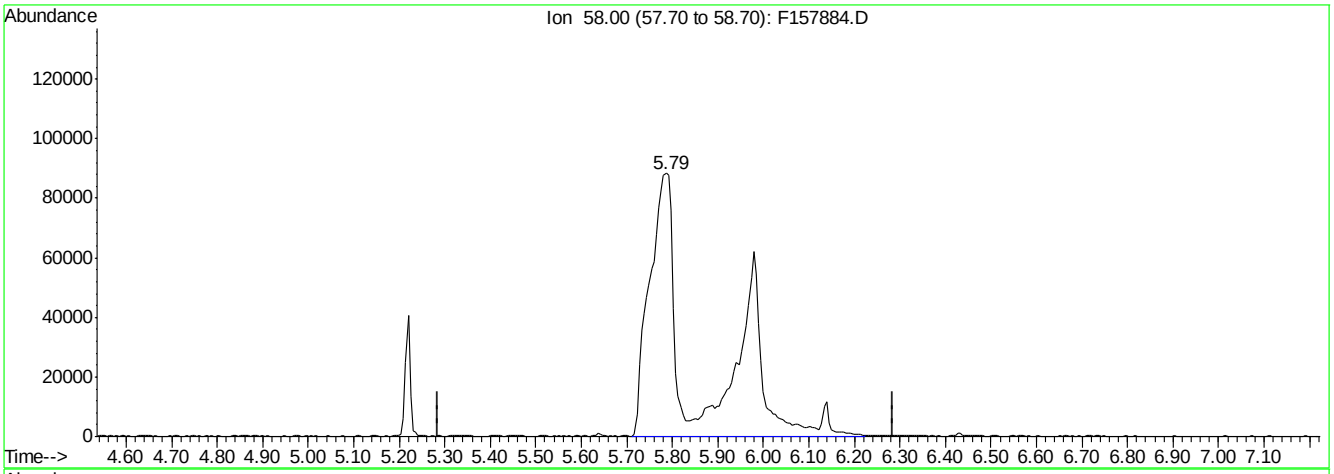
F157884.D MF6644.M Sun Jun 12 11:35:43 2016 RT1

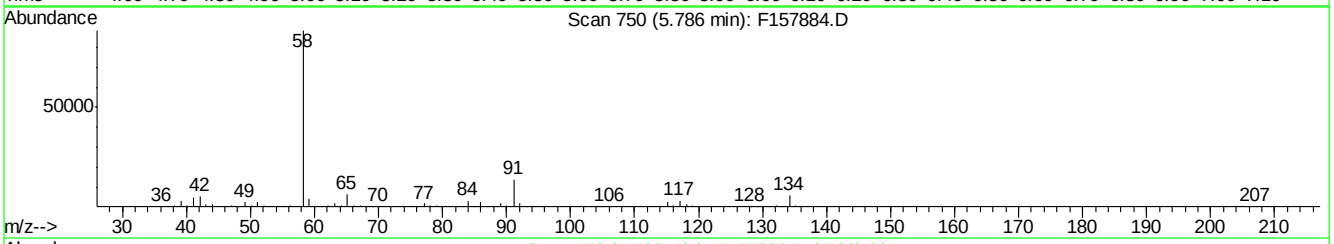
SGS ACCUTEST JC22206

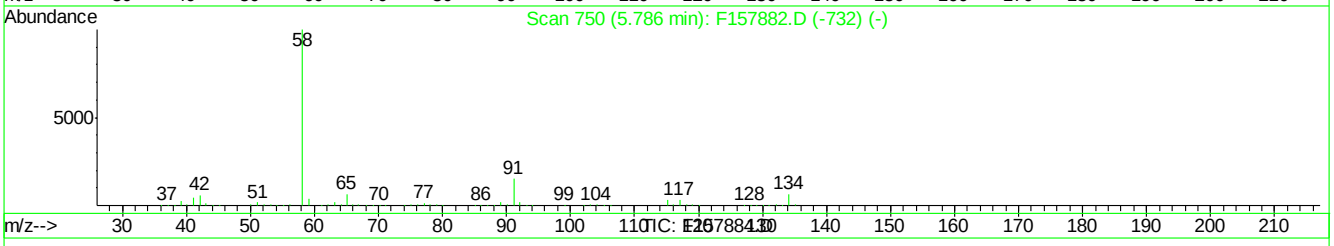
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:35 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.79min 48.88ppm m

response 577390

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

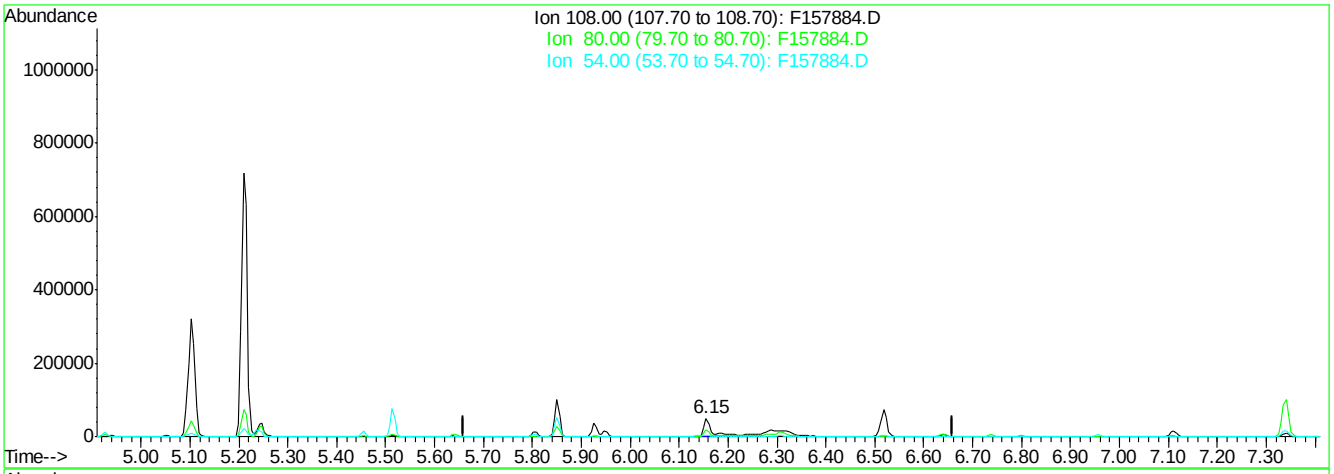
F157884.D MF6644.M Sun Jun 12 11:35:54 2016 RT1

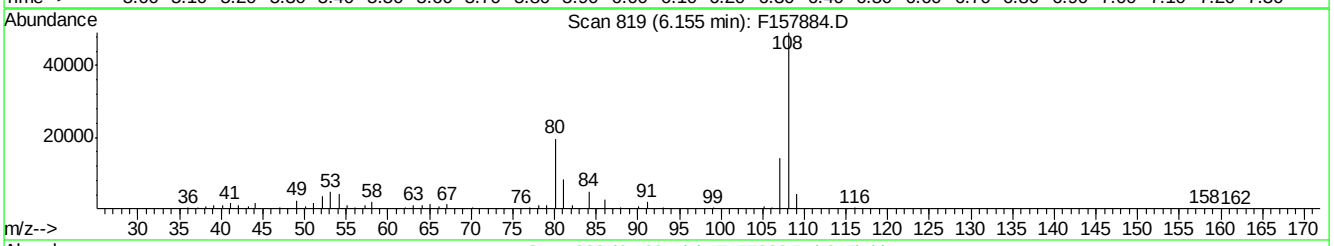
SGS ACCUTEST JC22206

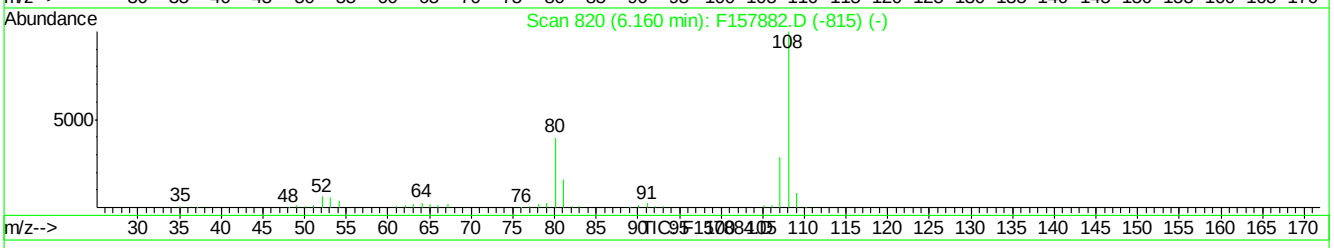
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:35 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 15.80ppm

response 43240

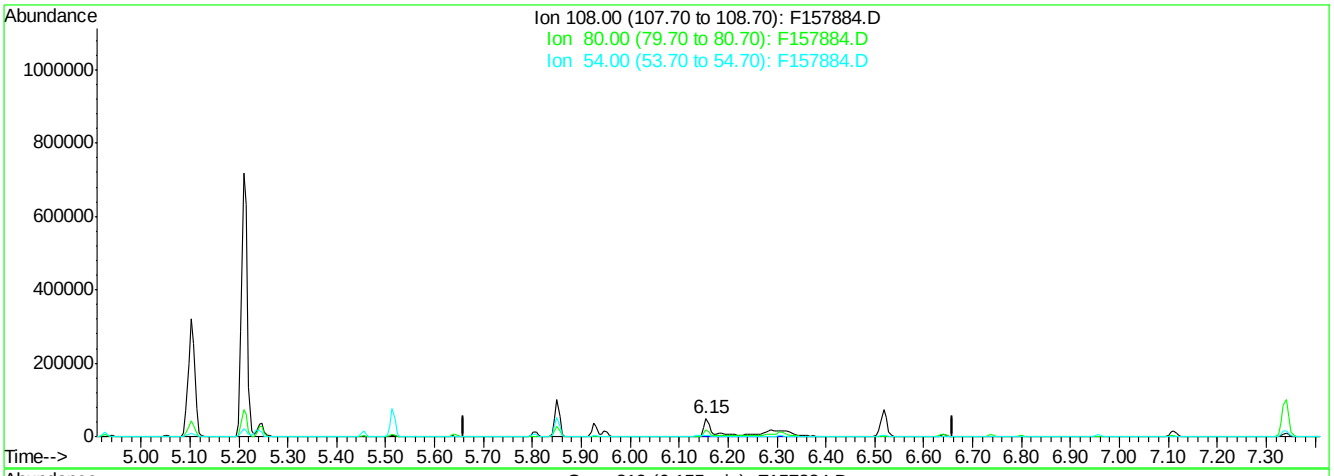
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	39.35
54.00	9.00	7.82
0.00	0.00	0.00

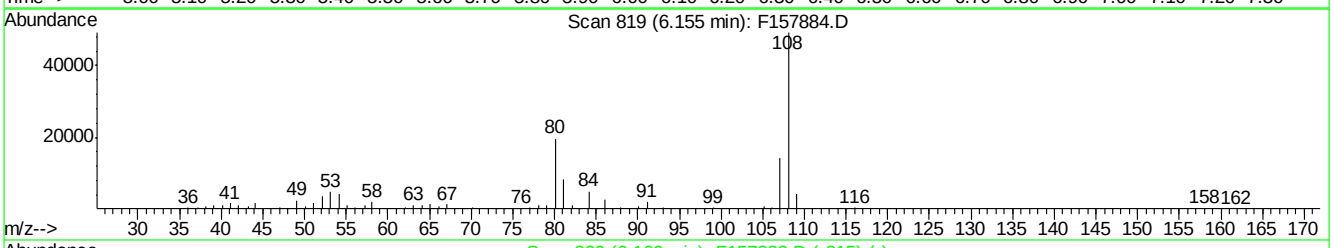
F157884.D MF6644.M Sun Jun 12 11:35:58 2016 RT1

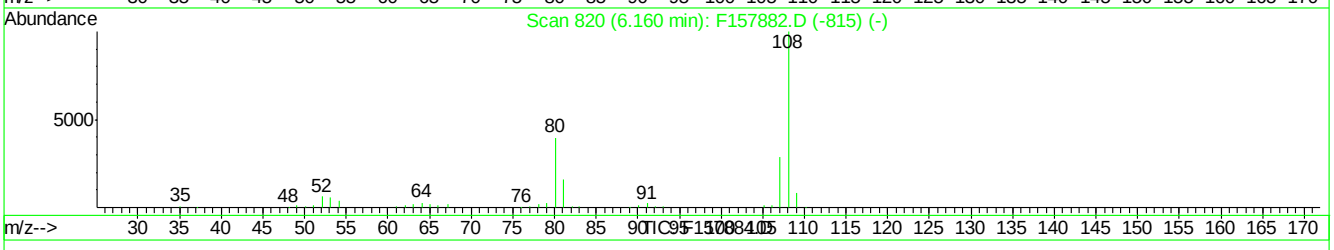
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:36 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 51.43ppm m

response 140734

Ion	Exp%	Act%
108.00	100	100
80.00	40.30	39.75
54.00	9.00	8.75
0.00	0.00	0.00

F157884.D MF6644.M Sun Jun 12 11:36:20 2016 RT1

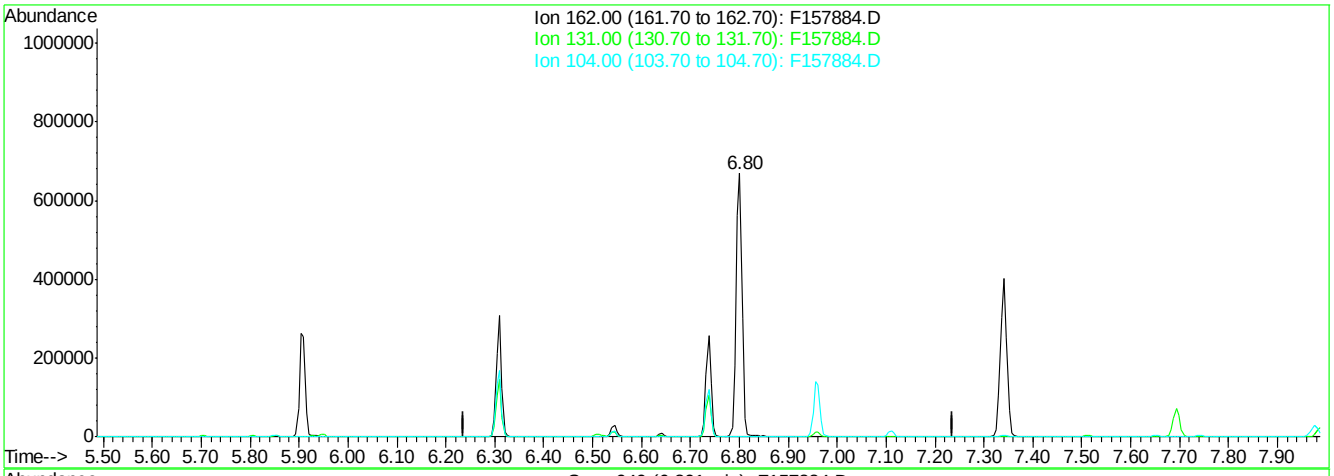
7.6.75.7

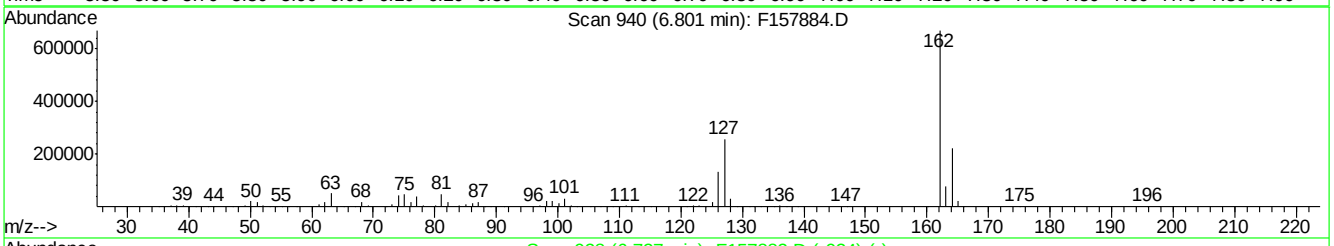
7

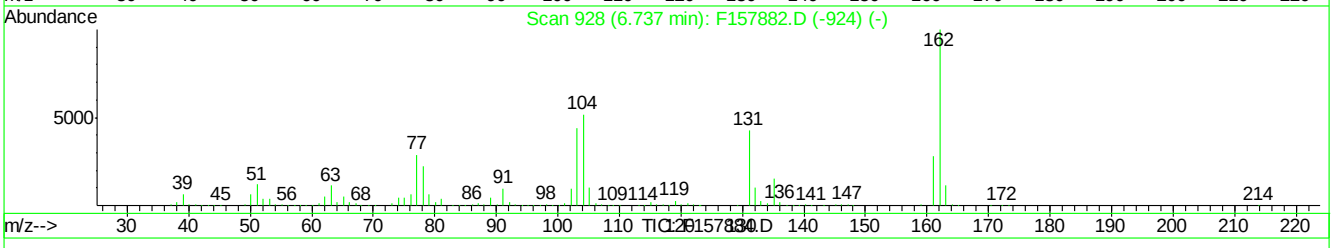
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:36 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.80min 150.86ppm

response 576429

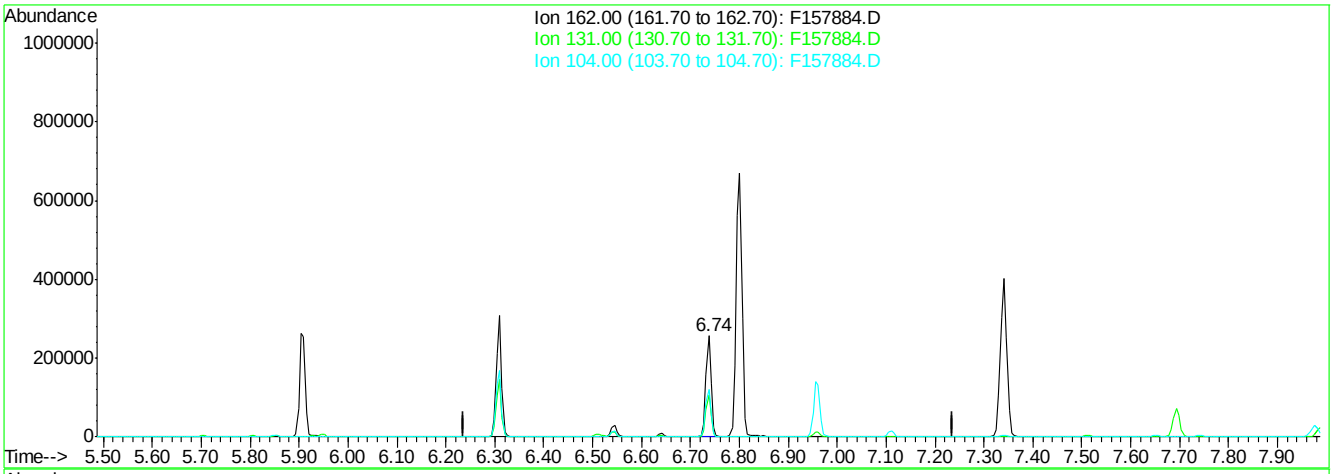
Ion	Exp%	Act%
162.00	100	100
131.00	5.40	1.93
104.00	6.20	22.00
0.00	0.00	0.00

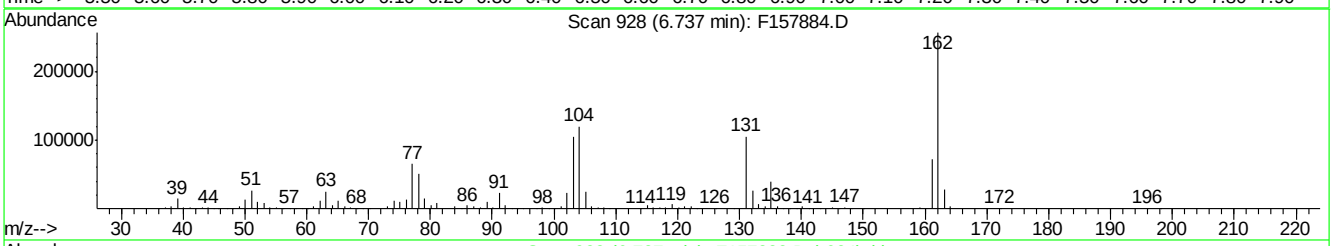
F157884.D MF6644.M Sun Jun 12 11:36:25 2016 RT1

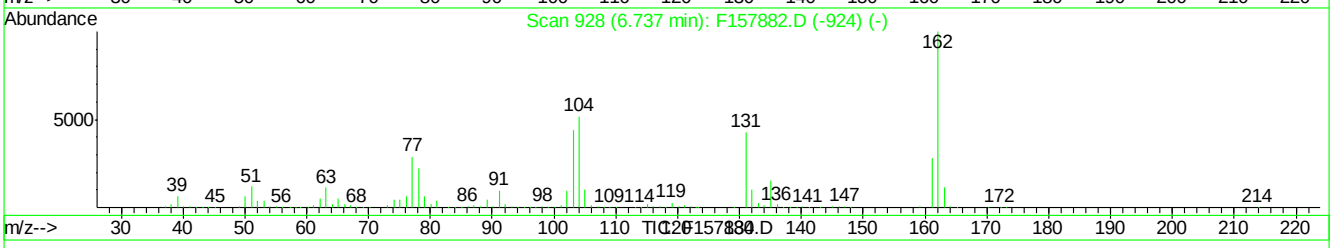
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:36 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.74min 51.14ppm m

response 195402

Ion	Exp%	Act%
162.00	100	100
131.00	5.40	5.68
104.00	6.20	64.90#
0.00	0.00	0.00

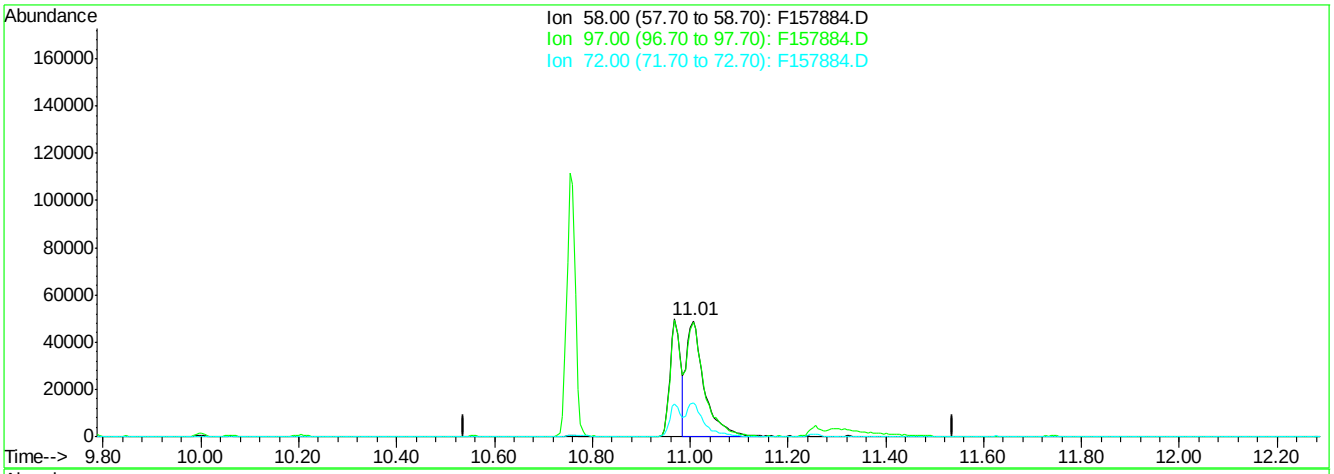
F157884.D MF6644.M Sun Jun 12 11:36:34 2016 RT1

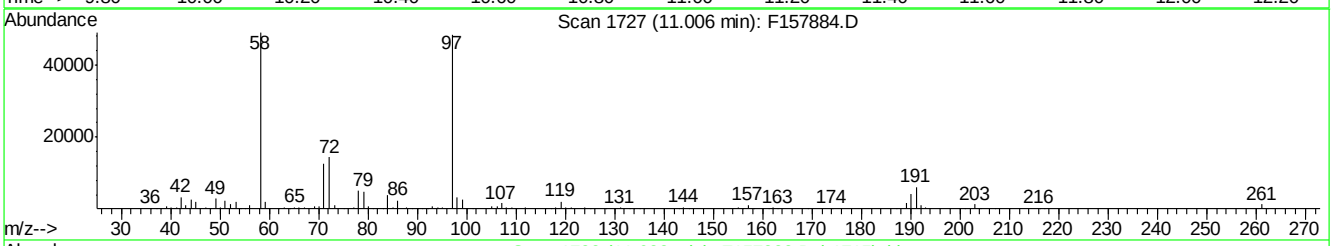
SGS ACCUTEST JC22206

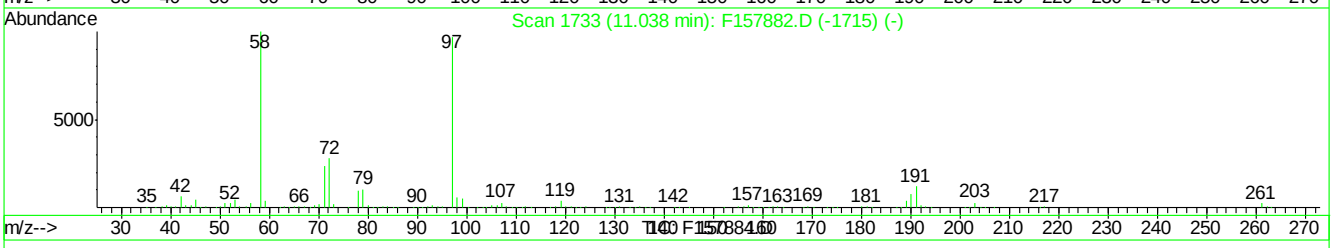
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:36 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

11.01min 38.98ppm

response 123593

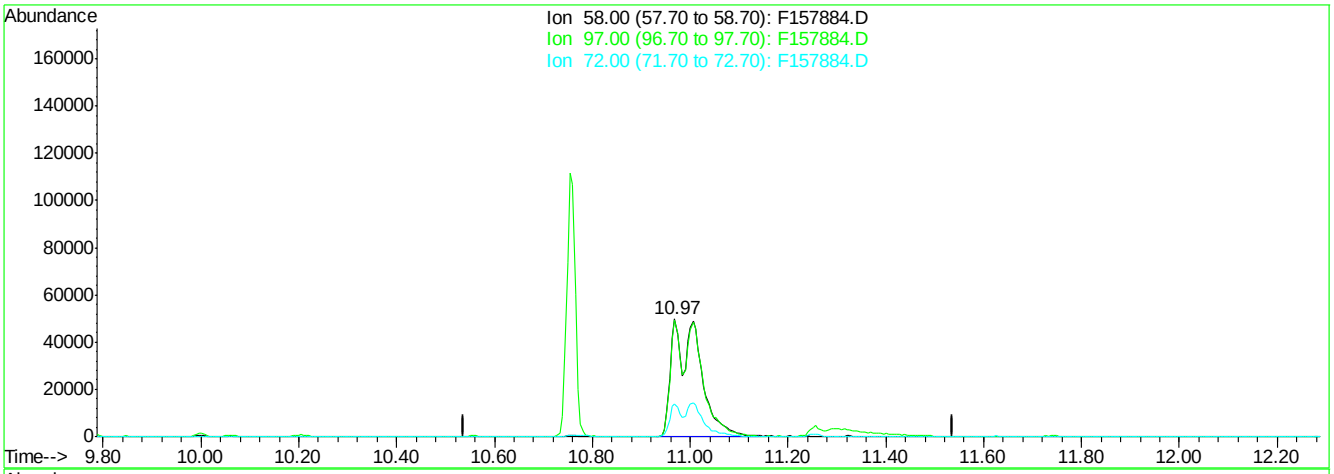
Ion	Exp%	Act%
58.00	100	100
97.00	96.70	97.45
72.00	28.00	28.73
0.00	0.00	0.00

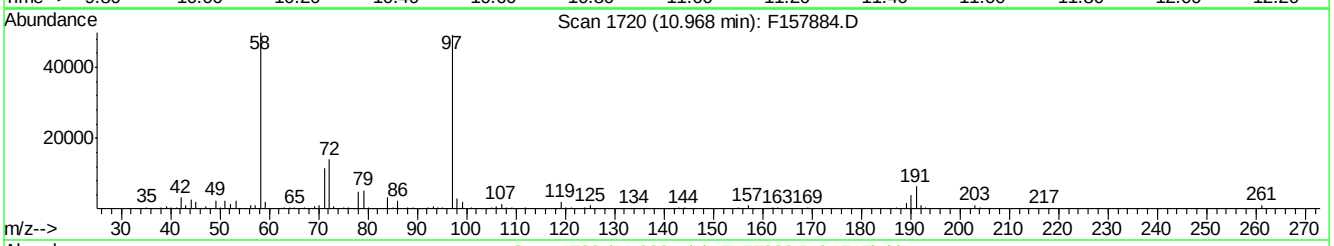
F157884.D MF6644.M Sun Jun 12 11:36:53 2016 RT1

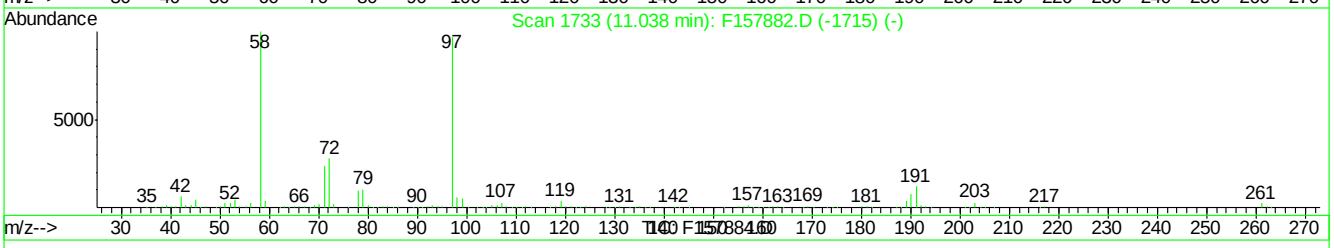
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157884.D Vial: 4
Acq On : 10 Jun 2016 6:00 pm Operator: ashleyd
Sample : icc6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:36 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.97min 62.61ppm m

response 198497

Ion	Exp%	Act%
58.00	100	100
97.00	96.70	99.05
72.00	28.00	27.95
0.00	0.00	0.00

F157884.D MF6644.M Sun Jun 12 11:37:02 2016 RT1

7.6.75.11

7

SGS ACCUTEST JC22206

F157884.D edits: Methapyriline

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:37:33 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	190963	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	759515	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	425883	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	633297	40.00	ppm	-0.02
83) Chrysene-d12	14.68	240	544451	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	482254	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	190963	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	759515	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	425883	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	633297	40.00	ppm	0.00
147) Chrysene-d12A	14.68	240	544451	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	482254	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	190963	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	759515	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	425883	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	633297	40.00	ppm	-0.02
167) Chrysene-d12b	14.68	240	544451	40.00	ppm	-0.03
169) 1,4-Dichlorobenzene-d4c	4.93	152	190963	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	759515	40.00	ppm	-0.01
176) Chrysene-d12c	14.68	240	544451	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	759515	40.00	ppm	-0.01
180) Chrysene-d12B	14.68	240	544451	40.00	ppm	-0.04

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	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) 2-Picoline	3.48	93	217174	25.11	ppm		99
104) Pentachloroethane	4.72	167	65121	26.15	ppm		95
105) Methyl methanesulfonate	3.81	80	99008	25.15	ppm		99
106) N-Nitrosodiethylamine	4.12	102	92849	24.71	ppm		98
107) N-Nitrosomethylethylamine	3.56	42	52186	22.67	ppm		95
108) Ethyl methanesulfonate	4.35	79	139138	24.65	ppm		99
109) N-Nitrosopyrrolidine	5.20	41	44929m	28.26	ppm		
110) N-Nitrosomorpholine	5.23	56	70959	24.66	ppm		99
111) o-Toluidine	5.24	106	299533	29.03	ppm	#	50
113) O,O,O-Triethyl phosphoroth	5.64	198	74712	27.59	ppm		81
114) N-Nitrosopiperidine	5.45	42	67217	25.22	ppm		90
115) A,A-Dimethylphenethylamine	5.94	58	289381m	22.45	ppm		

(#) = qualifier out of range (m) = manual integration
F157885.D MF6644.M Sun Jun 12 11:40:10 2016 RT1

7.6.76
7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:37:33 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

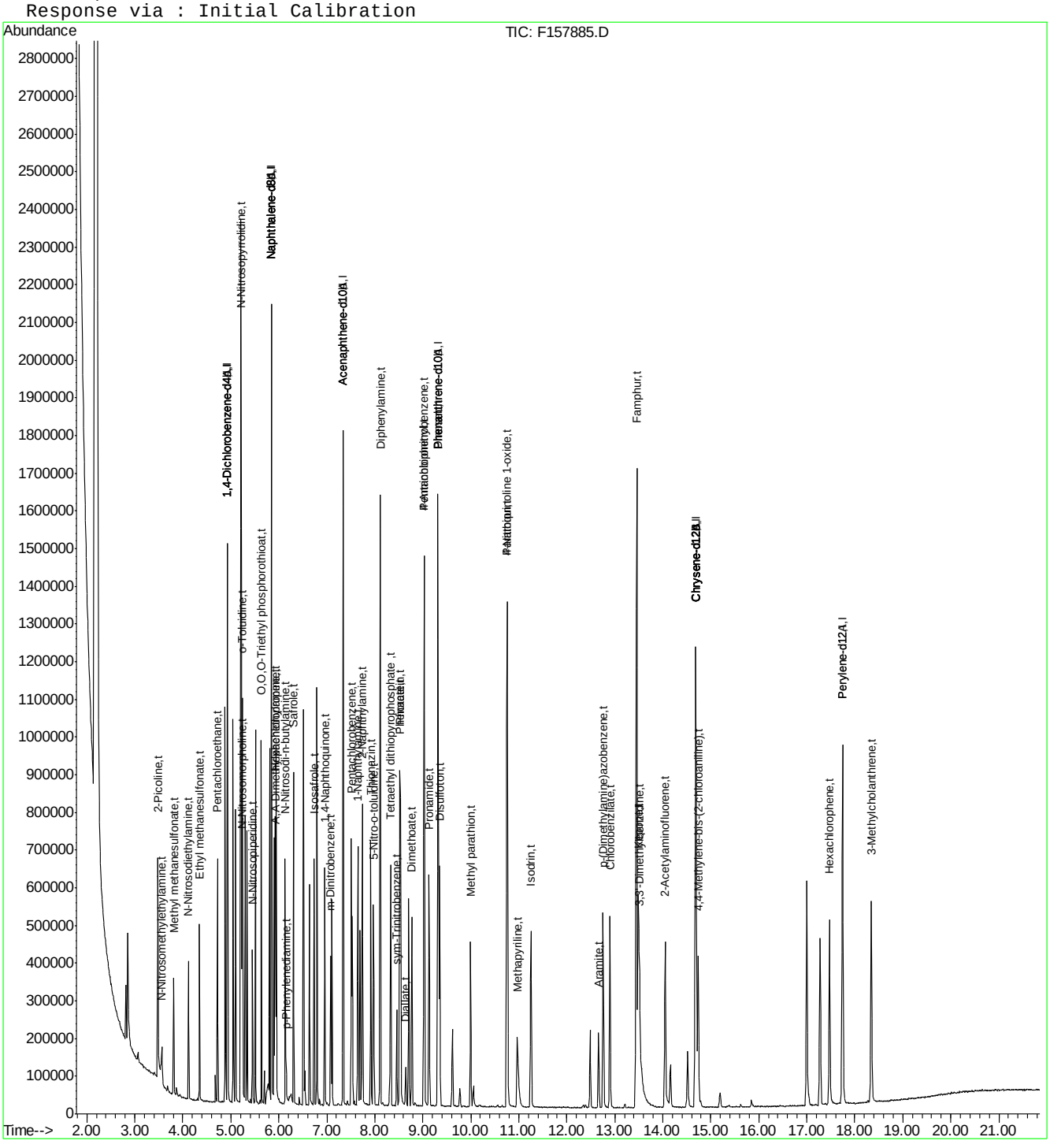
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.92	213	87148	25.44	ppm		100
117)	p-Phenylenediamine	6.15	108	75306m	25.22	ppm		
118)	N-Nitrosodi-n-butylamine	6.13	84	113849	25.38	ppm		98
119)	Safrole	6.31	162	127799	26.55	ppm		92
120)	Isosafrole	6.74	162	104365m	25.03	ppm		
122)	Thionazin	7.92	143	39621	23.78	ppm		99
123)	Tetraethyl dithiopyrophosp	8.33	322	36611	25.39	ppm		100
124)	Phorate	8.53	75	211741	26.44	ppm		100
125)	Phenacetin	8.54	108	167613	23.63	ppm		98
126)	1,4-Naphthoquinone	6.96	158	108002	28.42	ppm		93
127)	m-Dinitrobenzene	7.08	168	47520	23.64	ppm		97
128)	Pentachlorobenzene	7.51	250	101833	26.65	ppm		99
129)	1-Naphthylamine	7.65	143	247651	25.37	ppm		96
130)	2-Naphthylamine	7.74	143	307892	26.97	ppm		100
131)	5-Nitro-o-toluidine	7.97	152	94329	24.65	ppm		97
133)	Disulfoton	9.35	88	182139	27.63	ppm		98
134)	Dinoseb	9.32	211	54195	20.06	ppm		97
135)	Dimethoate	8.77	87	133703	27.51	ppm		96
136)	4-Aminobiphenyl	9.03	169	308441	53.29	ppm		100
137)	Methyl parathion	10.00	125	83780	26.31	ppm		97
138)	Parathion	10.75	109	66908	24.67	ppm		99
139)	Diphenylamine	8.12	169	491927	55.86	ppm		99
140)	Isodrin	11.26	193	47733	25.84	ppm		97
141)	Diallate	8.64	86	25656	20.89	ppm		96
142)	Pentachloronitrobenzene	9.03	295	26306	53.16	ppm		98
143)	Pronamide	9.13	173	134861	25.04	ppm		99
144)	4-Nitroquinoline 1-oxide	10.76	190	156298	88.67	ppm		99
145)	Methapyriline	10.97	58	118993	37.26	ppm		100
146)	sym-Trinitrobenzene	8.46	213	28347	20.66	ppm	#	80
148)	Aramite	12.66	185	25684	46.77	ppm		97
149)	p-(Dimethylamine)azobenzen	12.76	120	153300	25.30	ppm		98
150)	Kepone	13.49	272	142528	297.31	ppm		99
151)	Famphur	13.46	218	766213	345.04	ppm		98
152)	2-Acetylaminofluorene	14.05	181	169517	22.84	ppm		98
153)	3,3'-Dimethylbenzidine	13.52	212	124958	77.56	ppm		98
154)	Chlorobenzilate	12.90	251	106876	25.15	ppm		96
156)	4,4-Methylene-bis-(2-chlor	14.74	266	37129	30.12	ppm		100
157)	3-Methylcholanthrene	18.35	268	180268	23.60	ppm		99
158)	Hexachlorophene	17.47	196	63273	60.66	ppm		95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:40 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration



Manual Integration Approval Summary

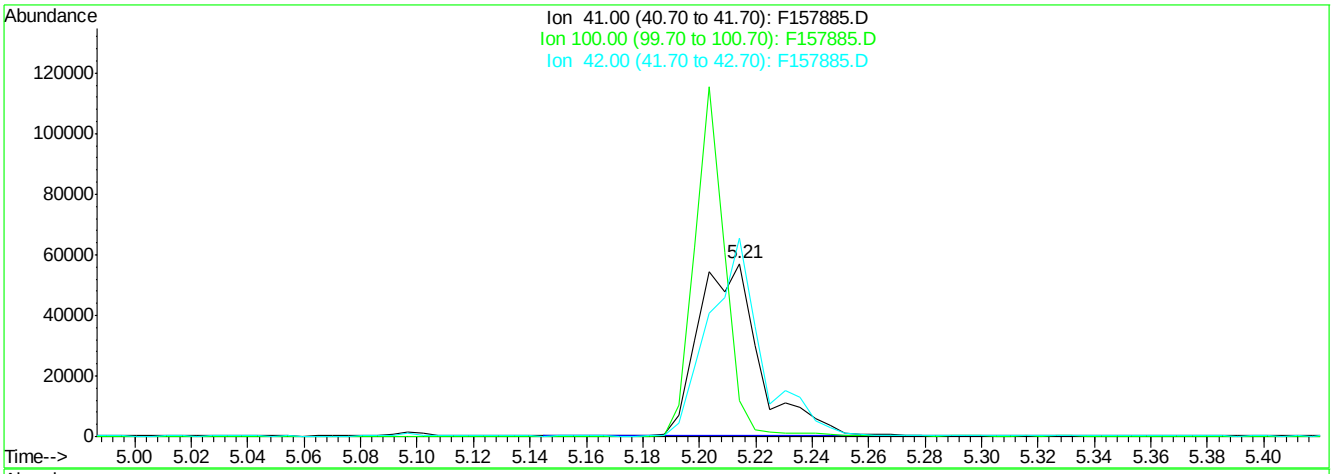
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157885.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 18:28	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

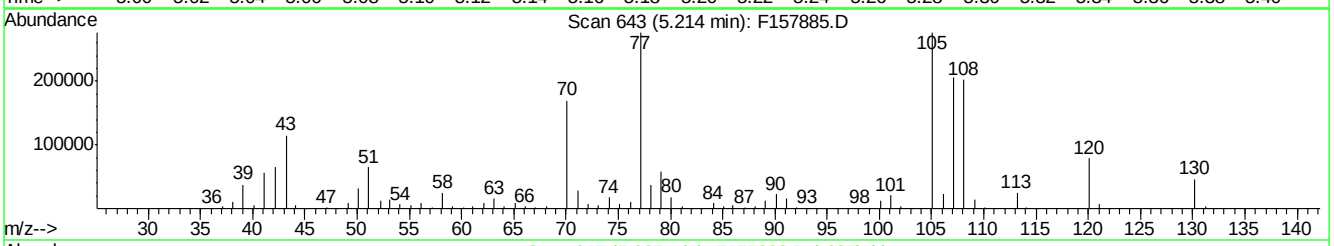
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.20	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.94	Split peak
p-Phenylenediamine	106-50-3		6.15	Split peak
Isosafrole	120-58-1		6.74	Poor instrument integration

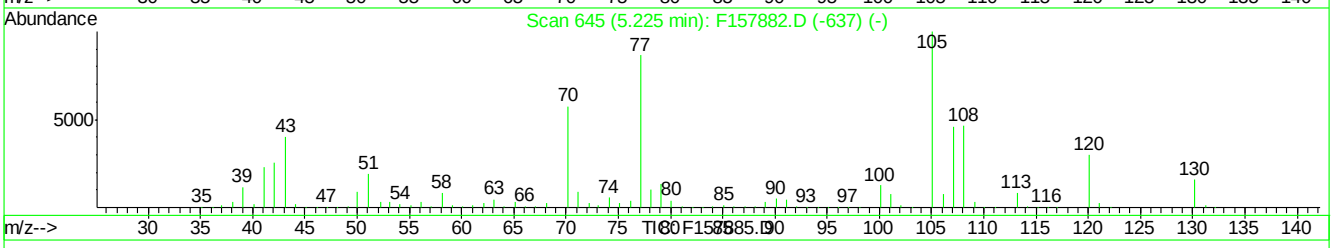
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:38 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 54.01ppm

response 85878

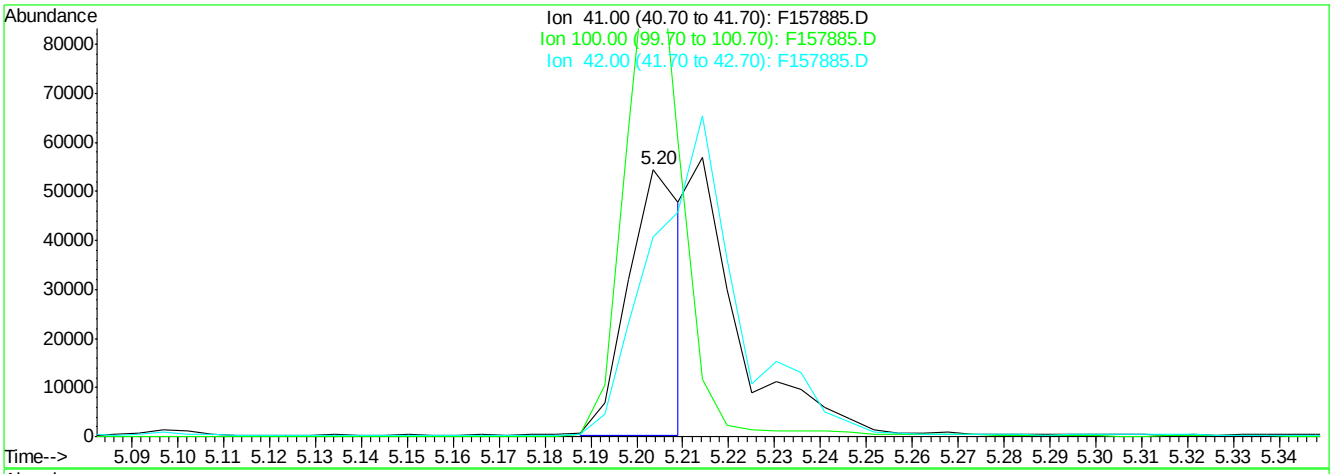
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	20.56#
42.00	93.10	114.71
0.00	0.00	0.00

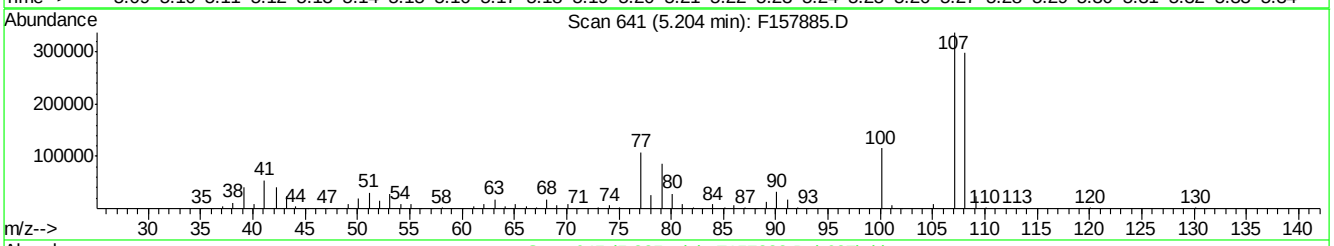
F157885.D MF6644.M Sun Jun 12 11:38:32 2016 RT1

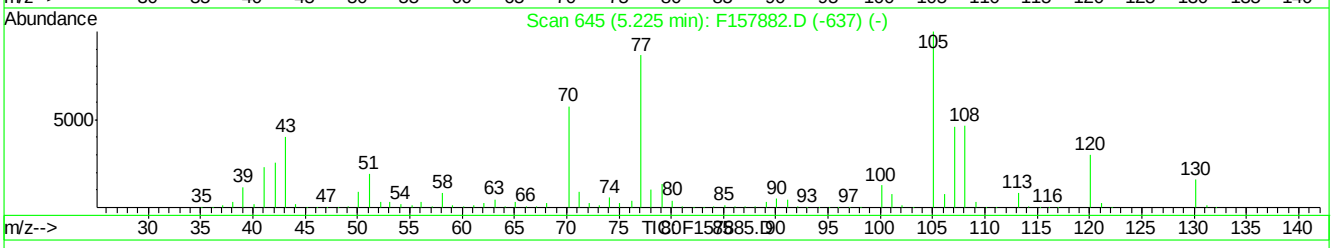
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:38 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.20min 28.26ppm m

response 44929

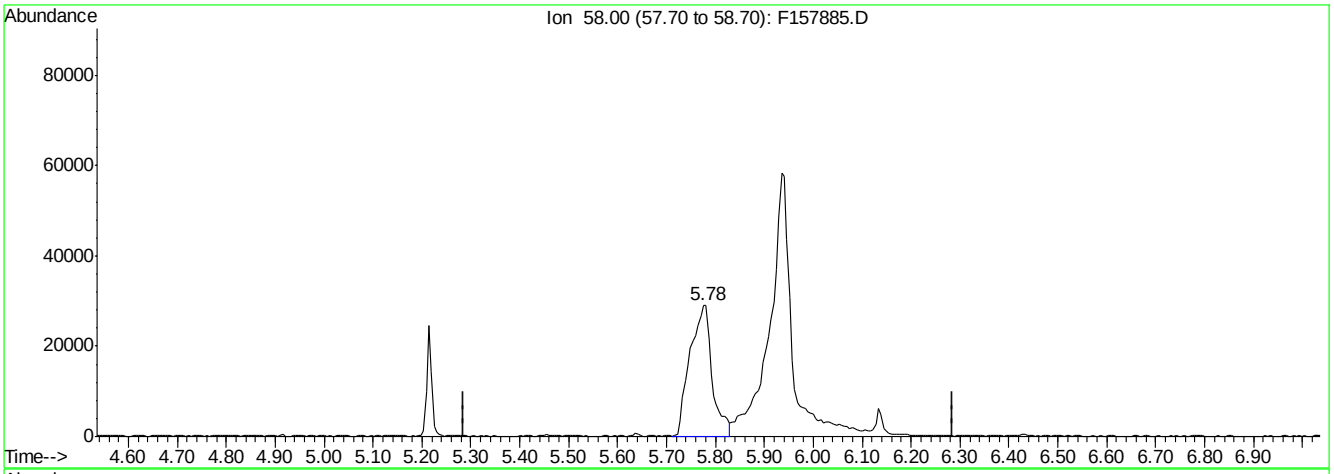
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	211.96#
42.00	93.10	74.65
0.00	0.00	0.00

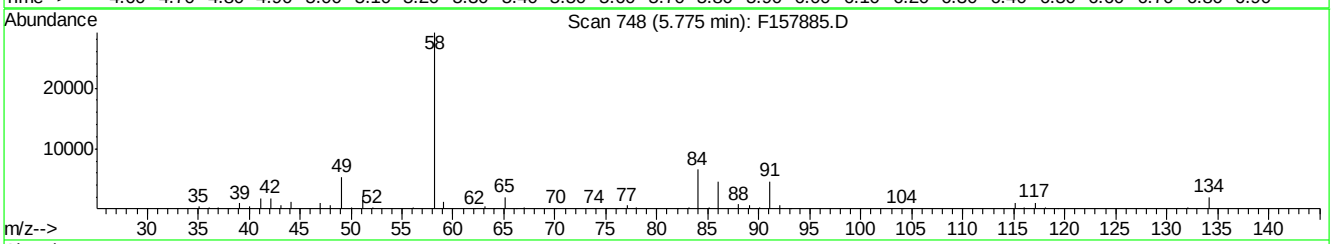
F157885.D MF6644.M Sun Jun 12 11:38:46 2016 RT1

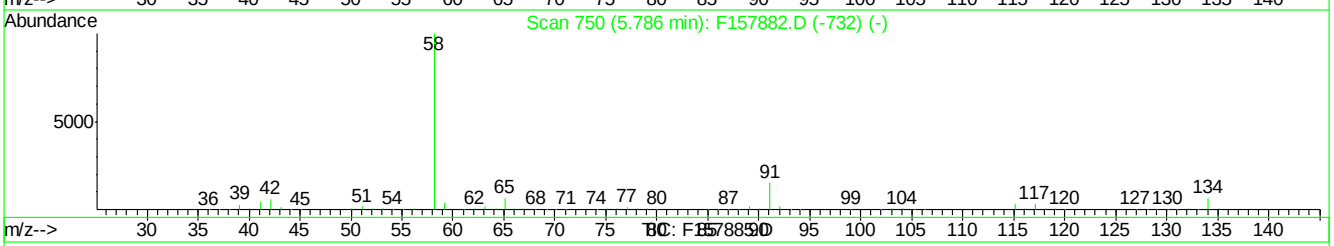
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:38 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.78min 7.13ppm

response 91900

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F157885.D MF6644.M Sun Jun 12 11:38:52 2016 RT1

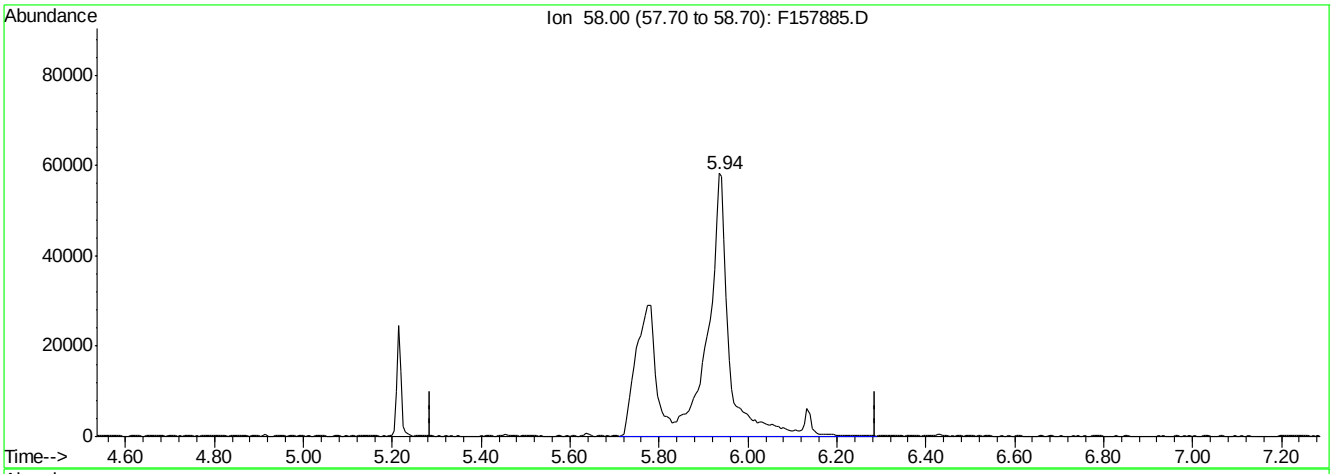
7.6.76.4

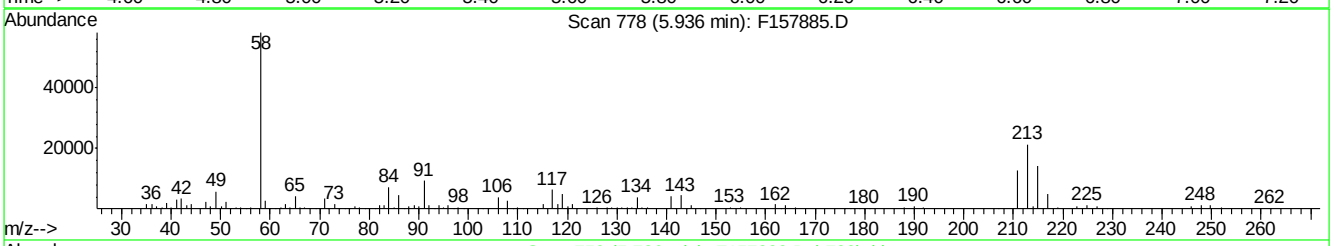
7

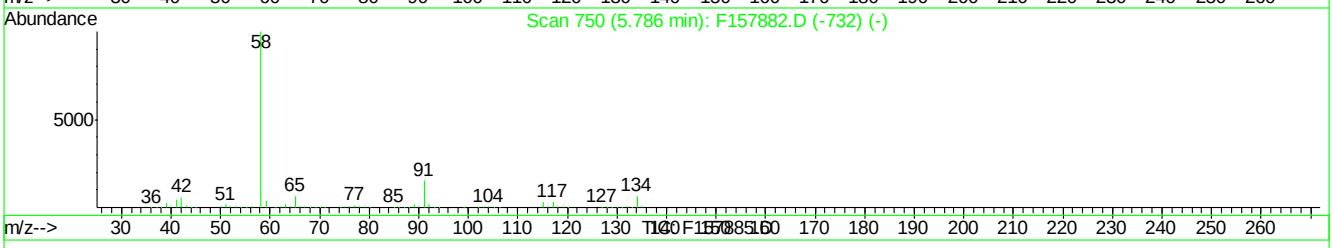
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:38 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.94min 22.45ppm m

response 289381

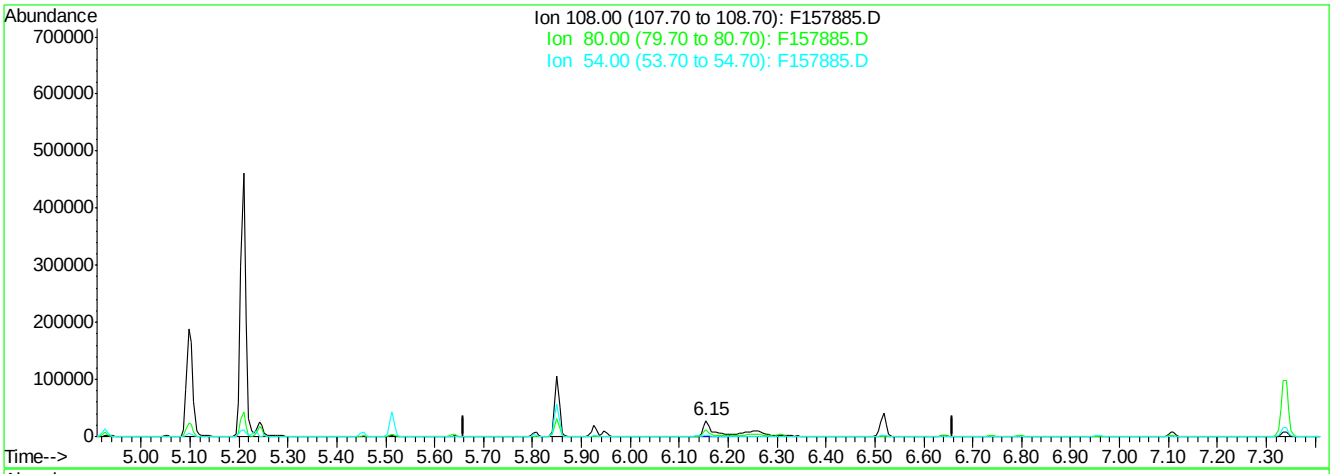
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

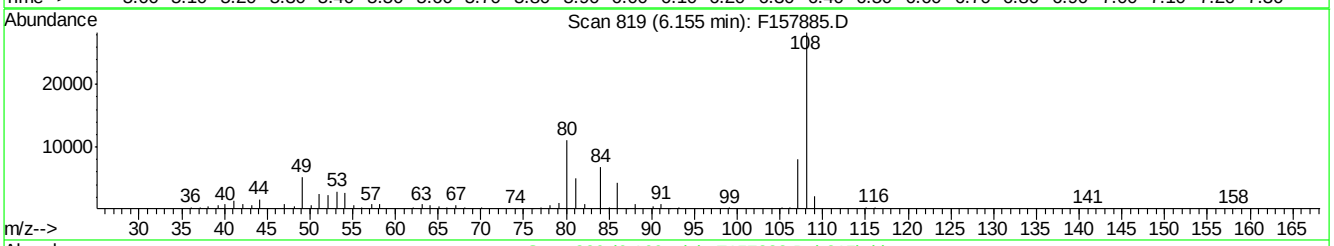
F157885.D MF6644.M Sun Jun 12 11:39:02 2016 RT1

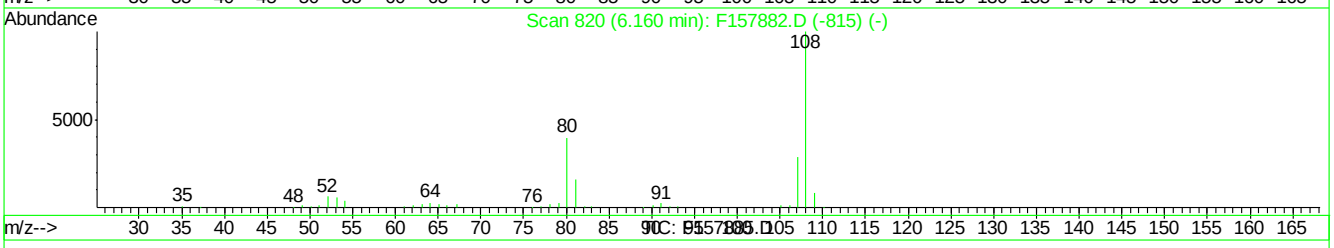
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:38 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 12.10ppm

response 36137

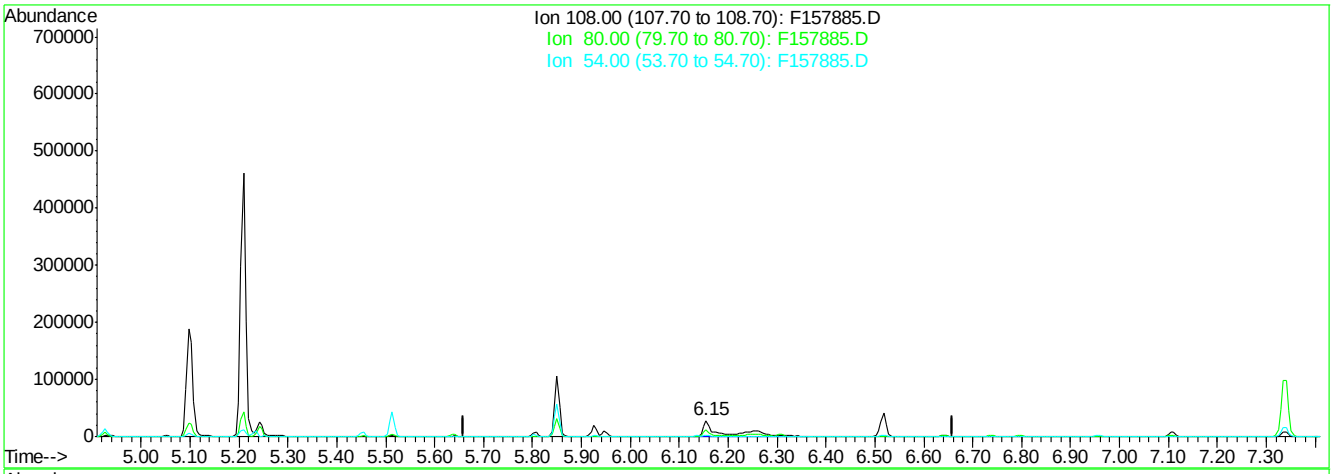
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	38.85
54.00	9.00	9.58
0.00	0.00	0.00

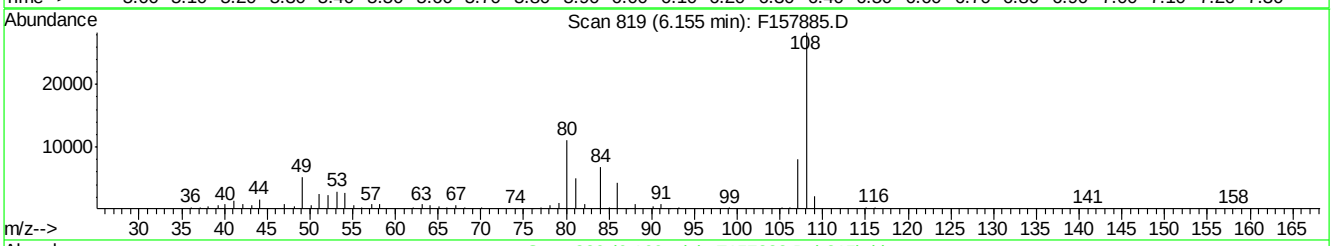
F157885.D MF6644.M Sun Jun 12 11:39:07 2016 RT1

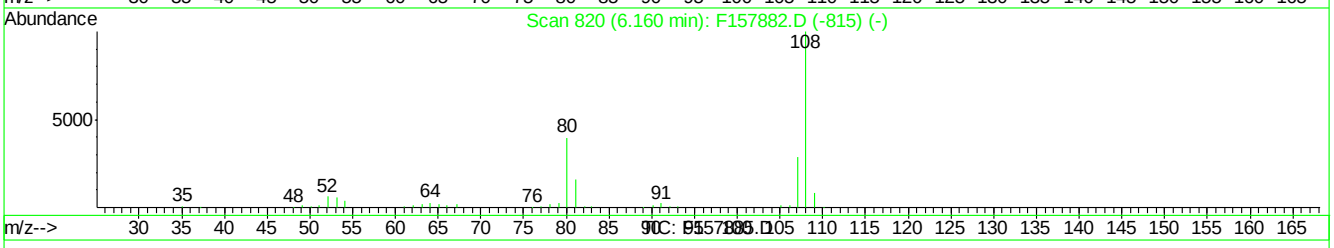
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:39 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 25.22ppm m

response 75306

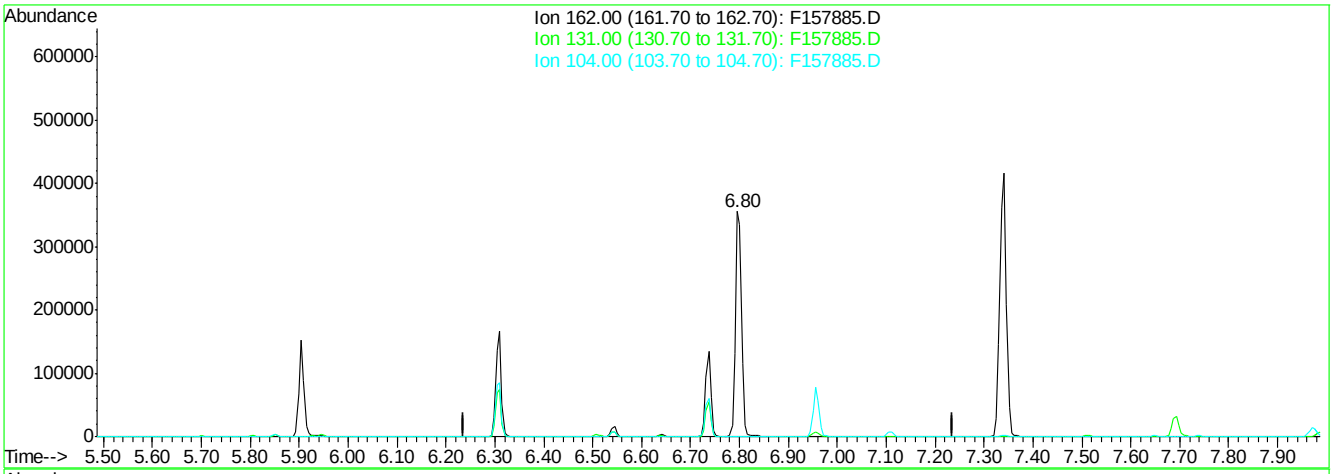
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	39.51
54.00	9.00	9.62
0.00	0.00	0.00

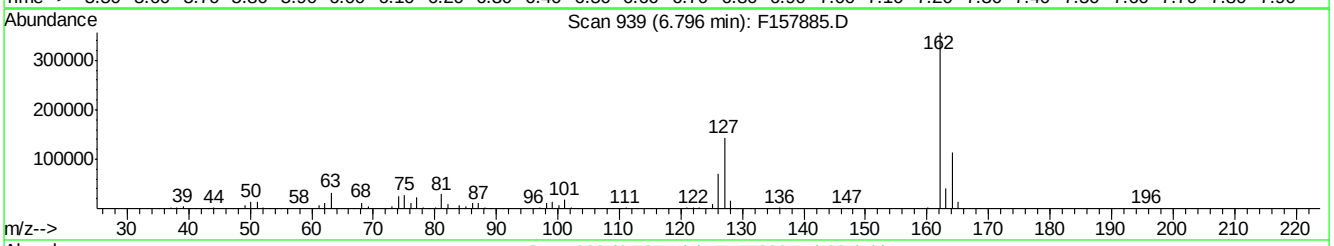
F157885.D MF6644.M Sun Jun 12 11:39:17 2016 RT1

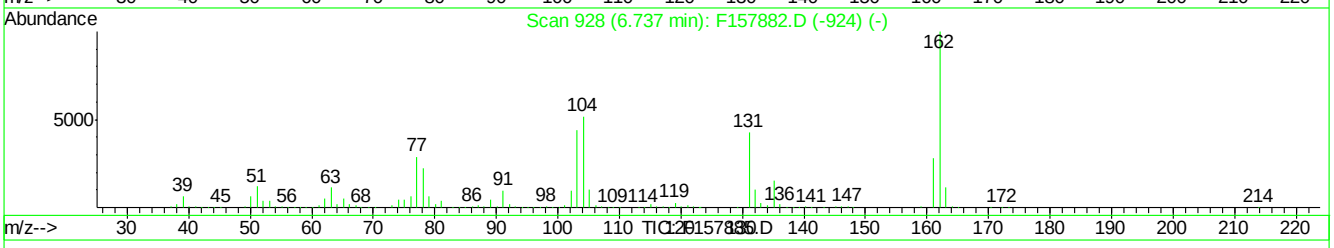
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:39 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.80min 75.42ppm

response 314503

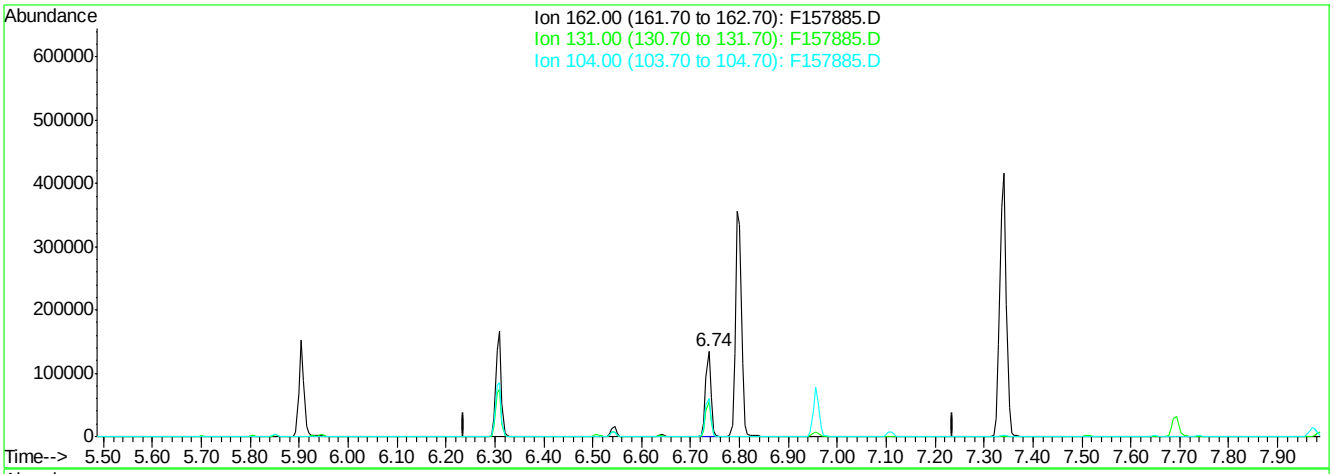
Ion	Exp%	Act%
162.00	100	100
131.00	5.40	2.04
104.00	6.20	20.88
0.00	0.00	0.00

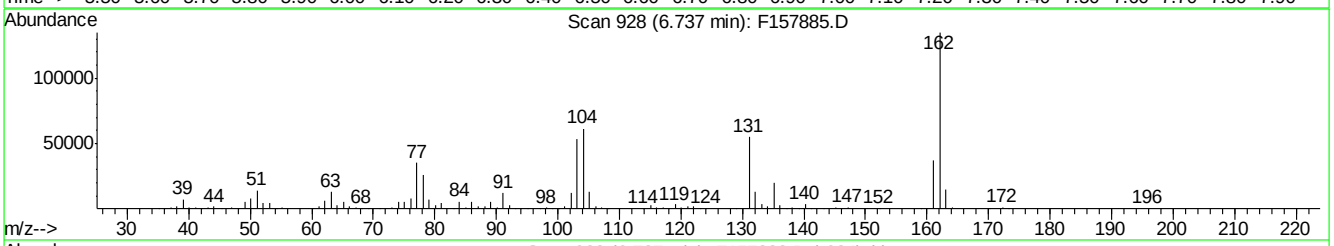
F157885.D MF6644.M Sun Jun 12 11:39:22 2016 RT1

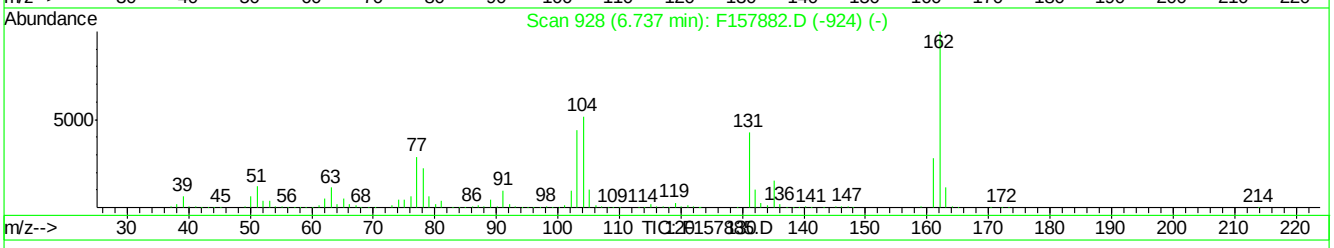
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157885.D Vial: 5
Acq On : 10 Jun 2016 6:28 pm Operator: ashleyd
Sample : ic6647-25 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:39 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.74min 25.03ppm m

response 104365

Ion	Exp%	Act%
162.00	100	100
131.00	5.40	6.14
104.00	6.20	62.93#
0.00	0.00	0.00

F157885.D MF6644.M Sun Jun 12 11:39:31 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:40:25 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	195594	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	787356	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	457113	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	702797	40.00	ppm	-0.02
83) Chrysene-d12	14.69	240	601271	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	542620	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	195594	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	787356	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	457113	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	702797	40.00	ppm	0.00
147) Chrysene-d12A	14.69	240	601271	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	542620	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	195594	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	787356	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	457113	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	702797	40.00	ppm	-0.02
167) Chrysene-d12b	14.69	240	601271	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.93	152	195594	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	787356	40.00	ppm	-0.01
176) Chrysene-d12c	14.69	240	601271	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	787356	40.00	ppm	-0.01
180) Chrysene-d12B	14.69	240	601271	40.00	ppm	-0.03

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	0	0.00	ppm
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds						Qvalue
103) 2-Picoline	3.48	93	91826	10.37	ppm	97
104) Pentachloroethane	4.72	167	27635	10.84	ppm	92
105) Methyl methanesulfonate	3.80	80	42181	10.46	ppm	99
106) N-Nitrosodiethylamine	4.12	102	39079	10.15	ppm	98
107) N-Nitrosomethylethylamine	3.56	42	22066	9.36	ppm	94
108) Ethyl methanesulfonate	4.35	79	59326	10.26	ppm	97
109) N-Nitrosopyrrolidine	5.20	41	16931m	10.40	ppm	
110) N-Nitrosomorpholine	5.23	56	31591	10.72	ppm	95
111) o-Toluidine	5.24	106	126342	11.96	ppm	97
113) O,O,O-Triethyl phosphoroth	5.64	198	31081	11.07	ppm	82
114) N-Nitrosopiperidine	5.45	42	29518	10.68	ppm	97
115) A,A-Dimethylphenethylamine	5.88	58	131452m	9.84	ppm	

(#) = qualifier out of range (m) = manual integration
F157886.D MF6644.M Sun Jun 12 11:42:57 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:40:25 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

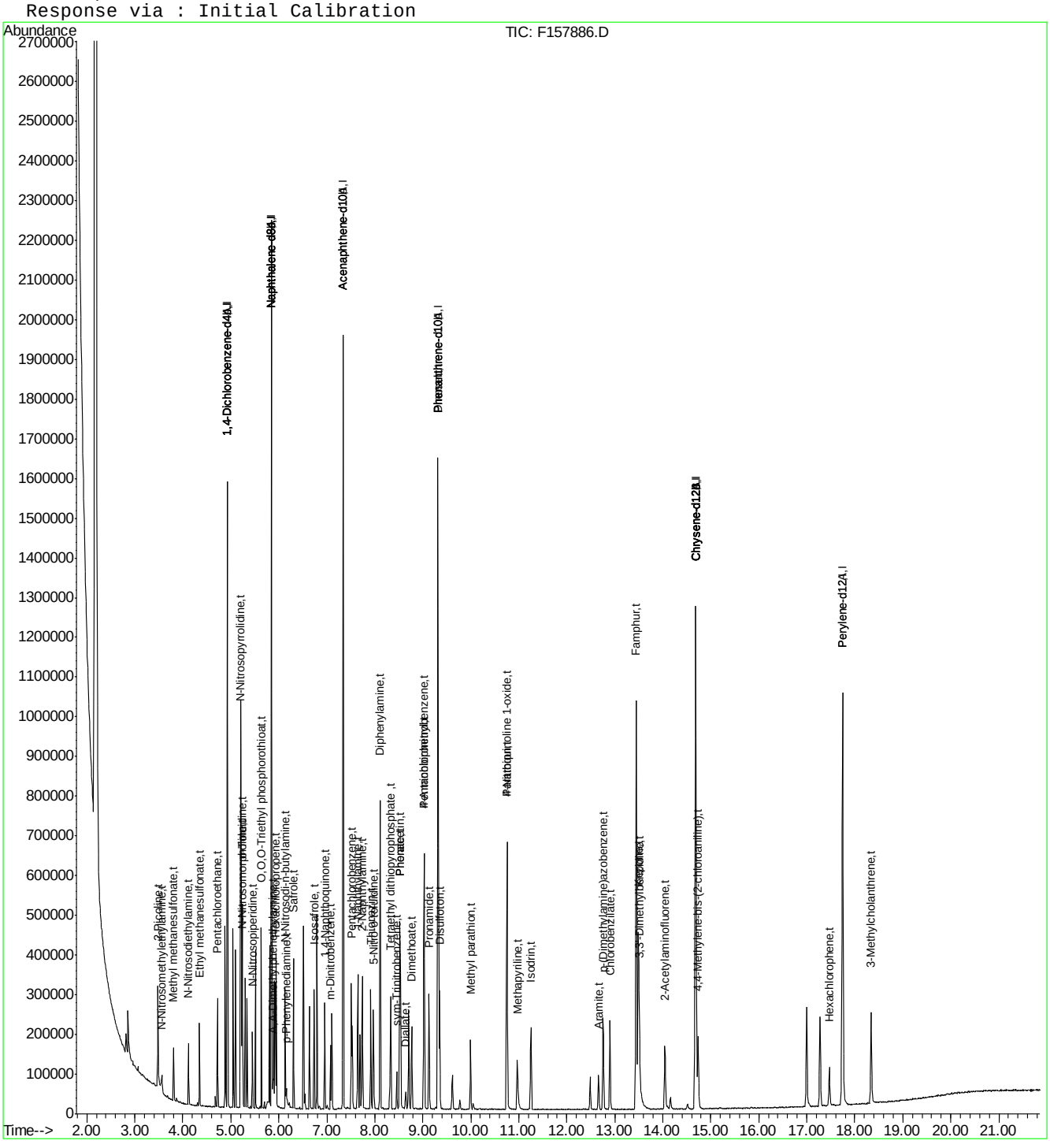
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.93	213	36823	10.37	ppm		100
117)	p-Phenylenediamine	6.15	108	38102m	12.31	ppm		
118)	N-Nitrosodi-n-butylamine	6.13	84	51128	11.00	ppm		99
119)	Safrole	6.31	162	54777	10.98	ppm		94
120)	Isosafrole	6.74	162	45167m	10.45	ppm		
122)	Thionazin	7.92	143	17778	9.94	ppm		97
123)	Tetraethyl dithiopyrophosp	8.33	322	15041	9.72	ppm		100
124)	Phorate	8.53	75	95345	11.09	ppm		100
125)	Phenacetin	8.54	108	73196	9.61	ppm		95
126)	1,4-Naphthoquinone	6.96	158	43973	10.78	ppm		91
127)	m-Dinitrobenzene	7.08	168	19290	8.94	ppm		93
128)	Pentachlorobenzene	7.51	250	45483	11.09	ppm		98
129)	1-Naphthylamine	7.65	143	114116	10.89	ppm		97
130)	2-Naphthylamine	7.74	143	135357	11.05	ppm		100
131)	5-Nitro-o-toluidine	7.97	152	41400	10.08	ppm		99
133)	Disulfoton	9.35	88	77524	10.60	ppm		97
134)	Dinoseb	9.32	211	18887	6.30	ppm		93
135)	Dimethoate	8.77	87	58186	10.79	ppm		96
136)	4-Aminobiphenyl	9.02	169	138579	21.58	ppm		99
137)	Methyl parathion	10.00	125	33564	9.50	ppm		98
138)	Parathion	10.75	109	27891	9.27	ppm		96
139)	Diphenylamine	8.11	169	224200	22.94	ppm		100
140)	Isodrin	11.26	193	21377	10.43	ppm		98
141)	Diallate	8.64	86	10906	8.00	ppm		89
142)	Pentachloronitrobenzene	9.03	295	11873	21.62	ppm		93
143)	Pronamide	9.13	173	57605	9.64	ppm		97
144)	4-Nitroquinoline 1-oxide	10.75	190	53191	27.19	ppm		95
145)	Methapyriline	10.97	58	58554	16.52	ppm		98
146)	sym-Trinitrobenzene	8.46	213	9686	6.36	ppm	#	69
148)	Aramite	12.66	185	9900	16.32	ppm		91
149)	p-(Dimethylamine)azobenzen	12.76	120	64471	9.64	ppm		97
150)	Kepone	13.49	272	82154	155.18	ppm		99
151)	Famphur	13.45	218	423298m	172.60	ppm		
152)	2-Acetylaminofluorene	14.05	181	62151	7.58	ppm		95
153)	3,3'-Dimethylbenzidine	13.52	212	82877	46.58	ppm		98
154)	Chlorobenzilate	12.90	251	44048	9.38	ppm		95
156)	4,4-Methylene-bis-(2-chlor	14.73	266	16347	11.79	ppm		95
157)	3-Methylcholanthrene	18.34	268	73645	8.57	ppm		95
158)	Hexachlorophene	17.47	196	13744	11.71	ppm		90

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:42 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration



Manual Integration Approval Summary

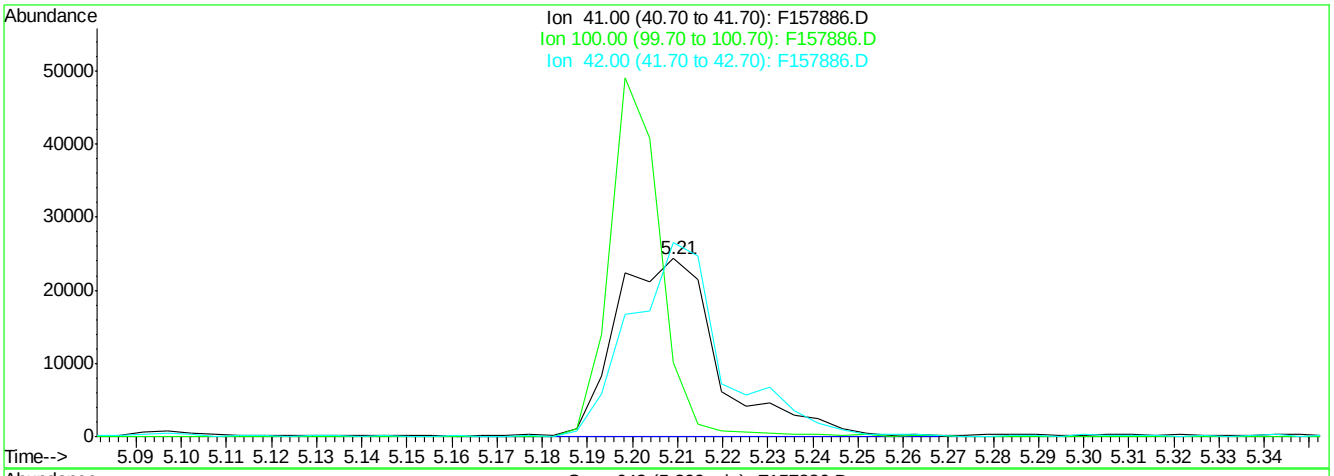
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157886.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 18:58	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

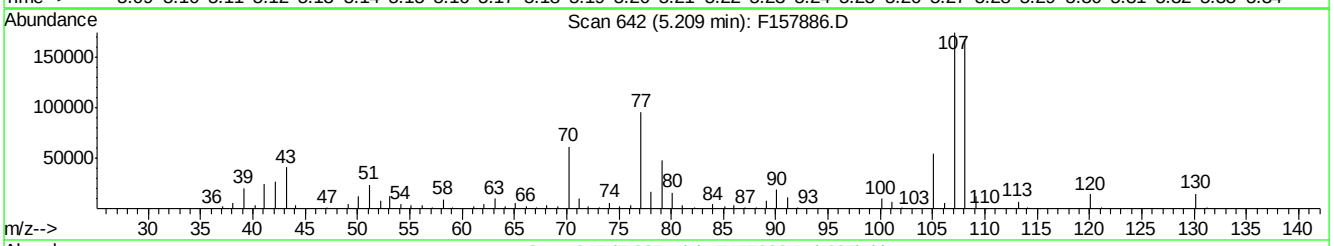
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.20	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.88	Split peak
p-Phenylenediamine	106-50-3		6.15	Split peak
Isosafrole	120-58-1		6.74	Poor instrument integration
Famphur	52-85-7		13.45	Split peak

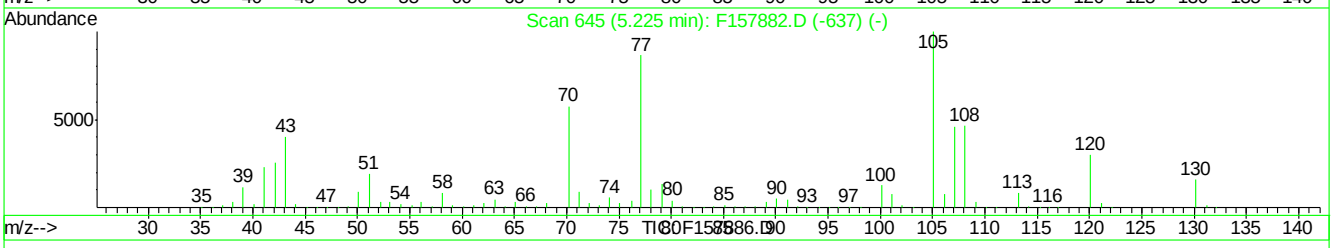
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:40 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 24.00ppm

response 39080

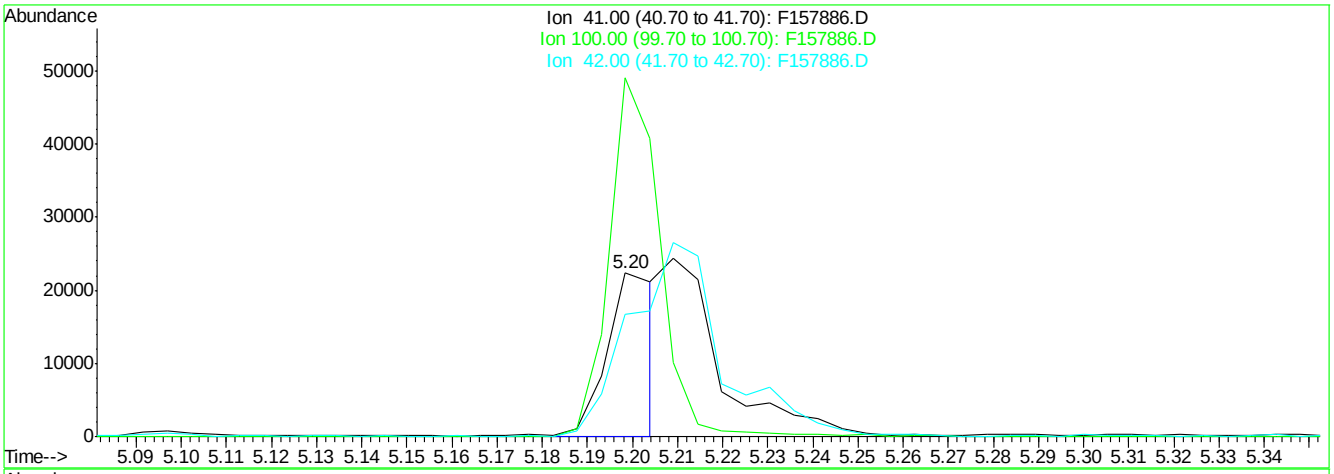
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	41.53#
42.00	93.10	108.77
0.00	0.00	0.00

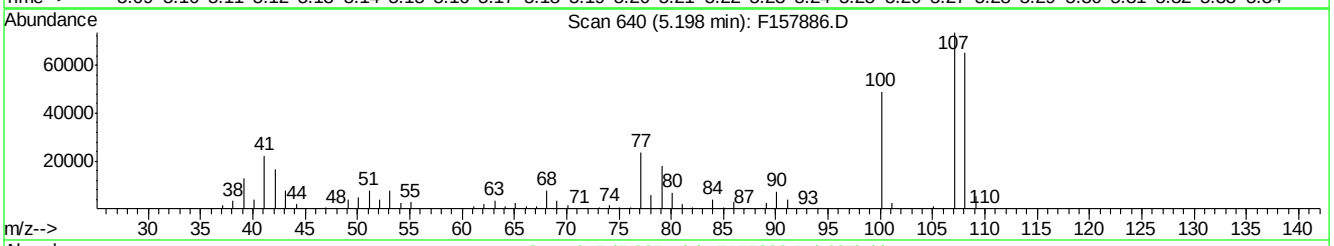
F157886.D MF6644.M Sun Jun 12 11:41:02 2016 RT1

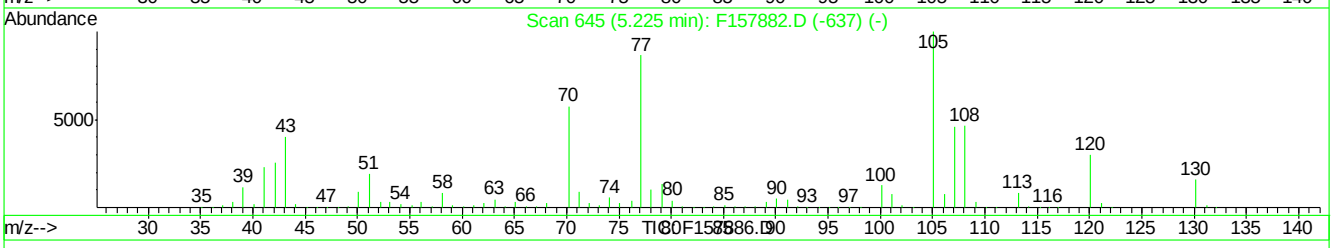
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.20min 10.40ppm m

response 16931

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	219.09#
42.00	93.10	74.69
0.00	0.00	0.00

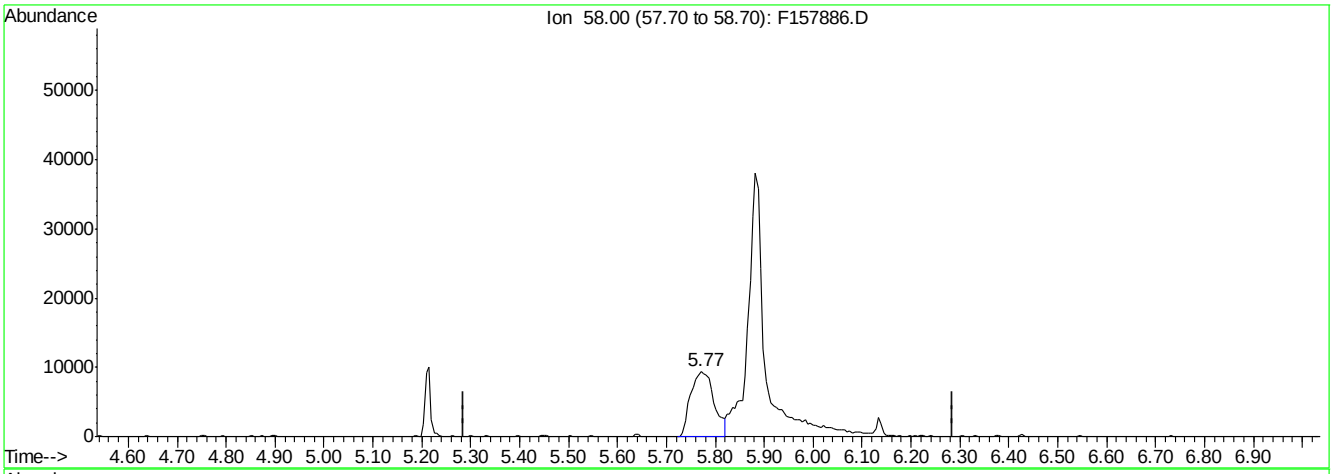
F157886.D MF6644.M Sun Jun 12 11:41:10 2016 RT1

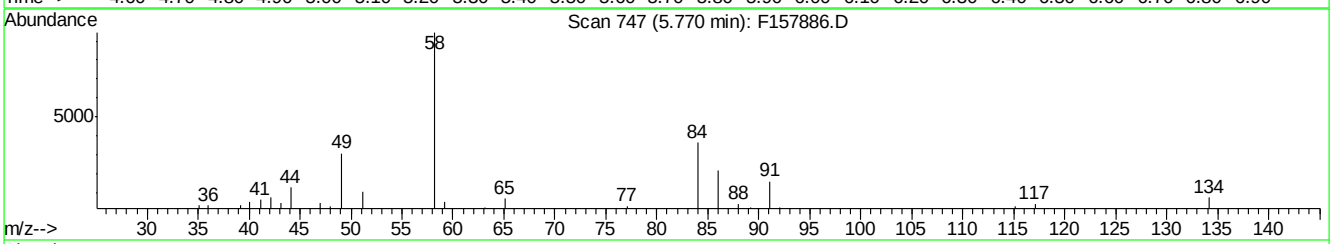
SGS ACCUTEST JC22206

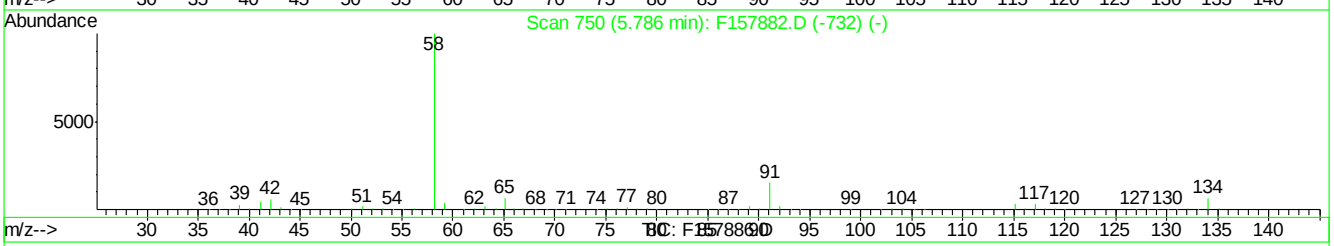
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.77min 2.34ppm

response 31228

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

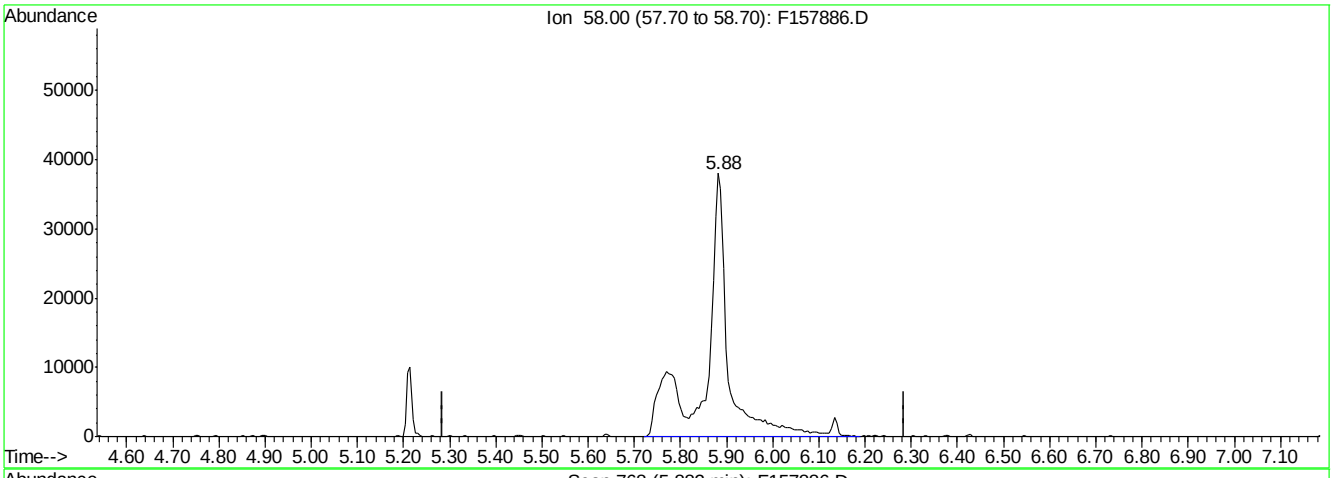
F157886.D MF6644.M Sun Jun 12 11:41:15 2016 RT1

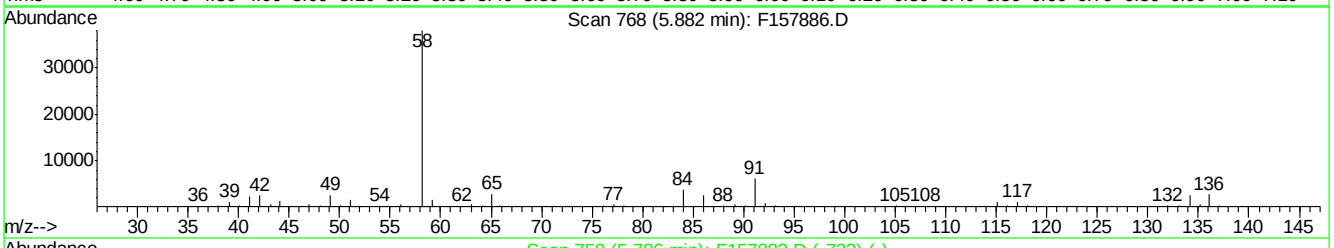
SGS ACCUTEST JC22206

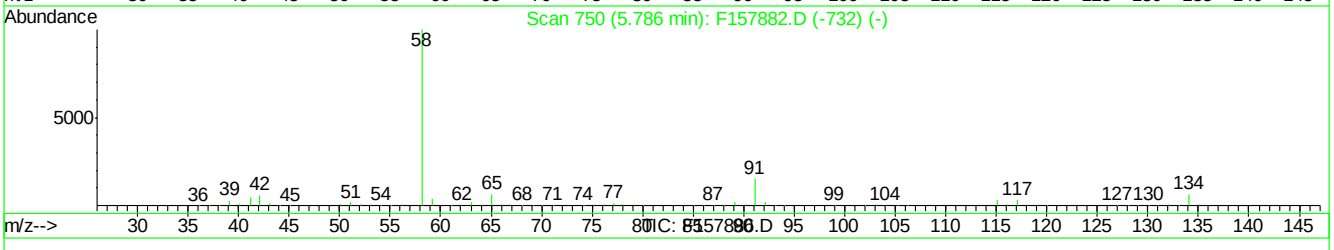
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.88min 9.84ppm m

response 131452

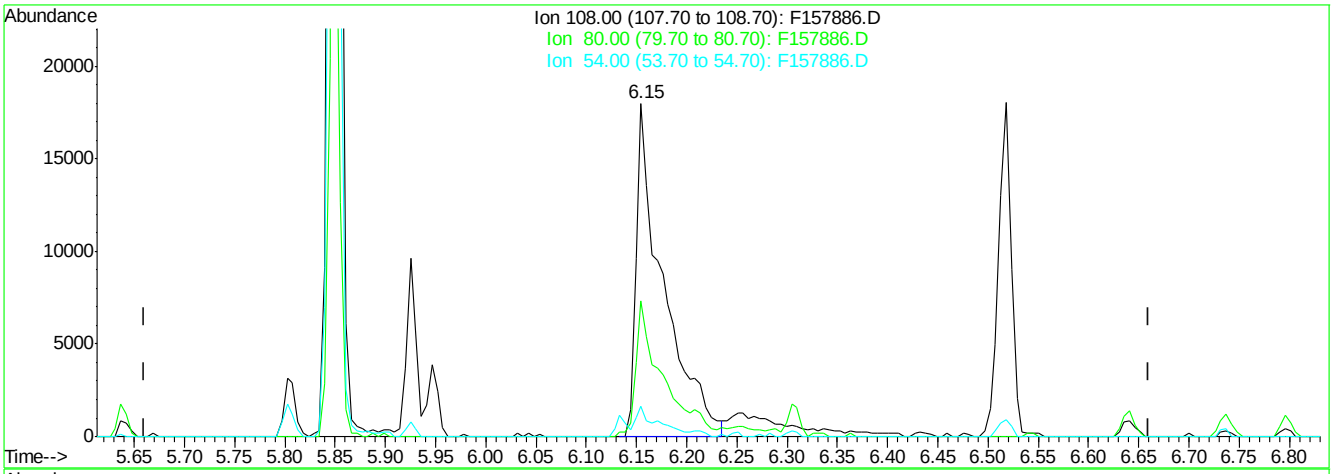
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

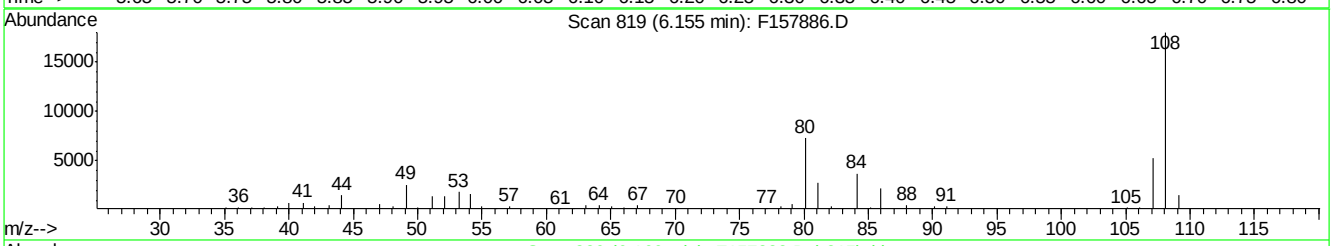
F157886.D MF6644.M Sun Jun 12 11:41:24 2016 RT1

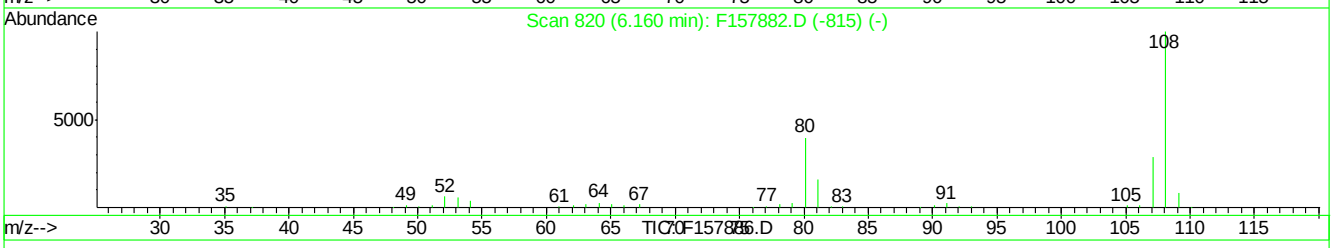
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 10.88ppm

response 33698

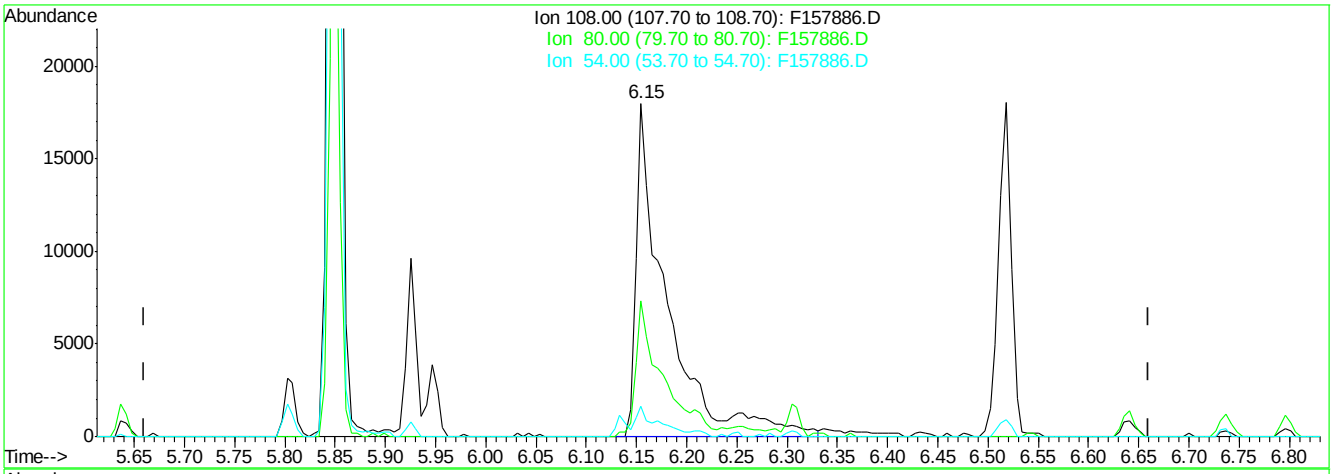
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	39.39
54.00	9.00	5.69
0.00	0.00	0.00

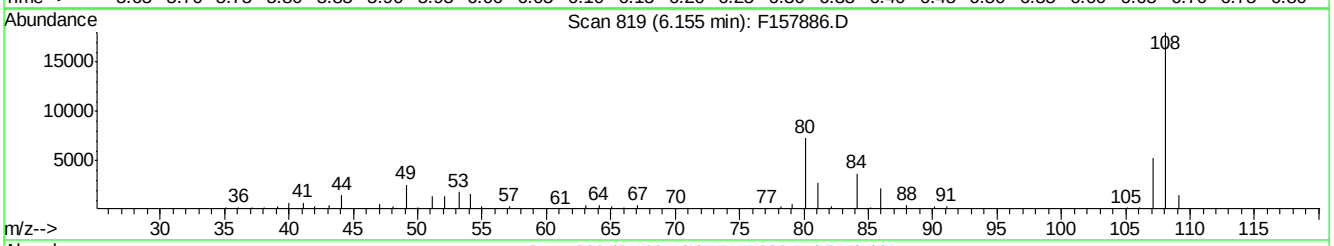
F157886.D MF6644.M Sun Jun 12 11:41:30 2016 RT1

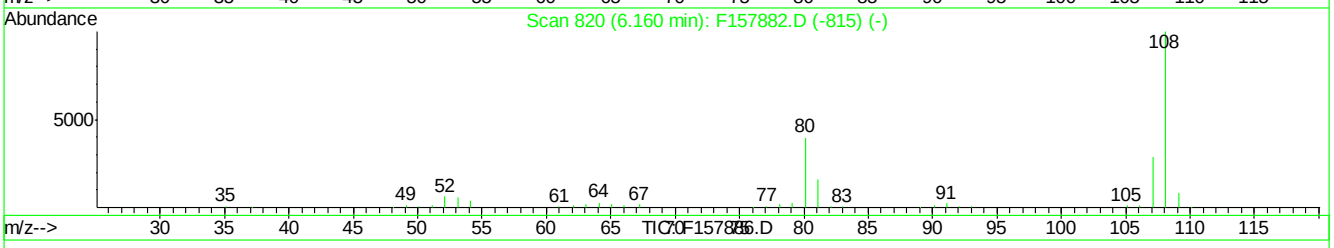
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.15min 12.31ppm m

response 38102

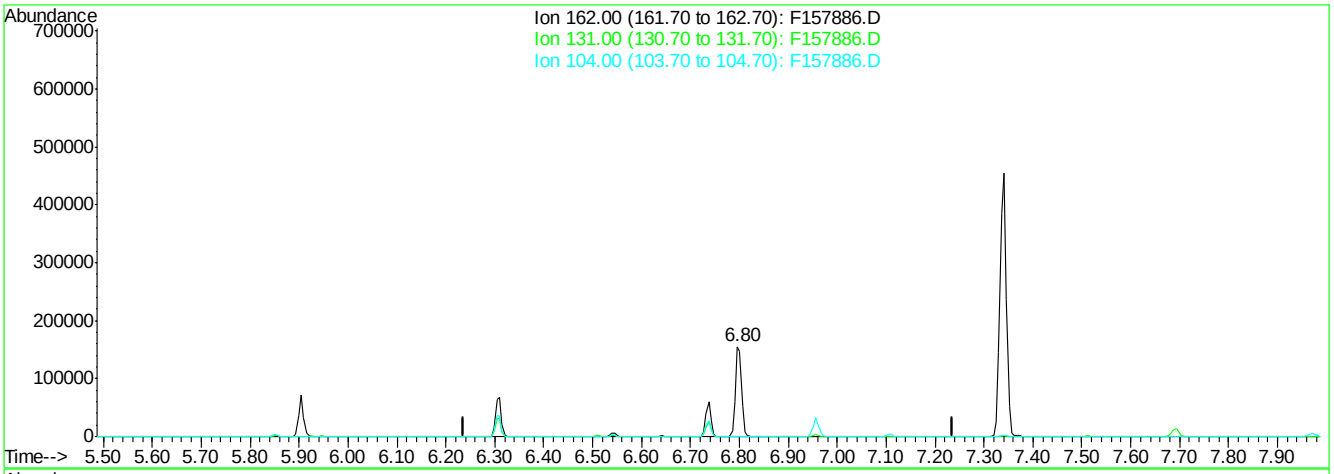
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	40.54
54.00	9.00	9.25
0.00	0.00	0.00

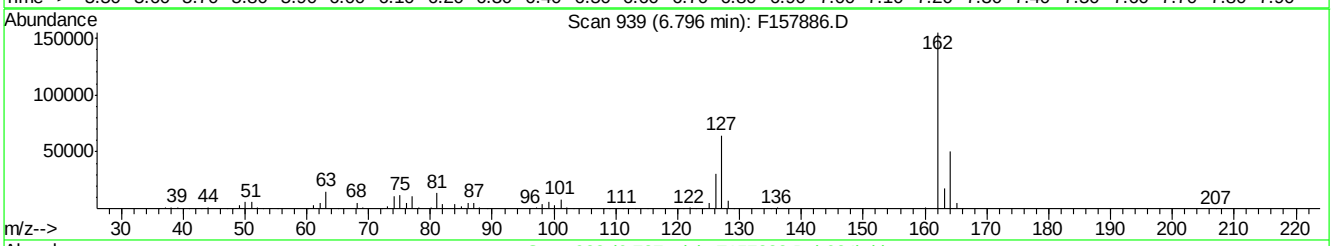
F157886.D MF6644.M Sun Jun 12 11:41:39 2016 RT1

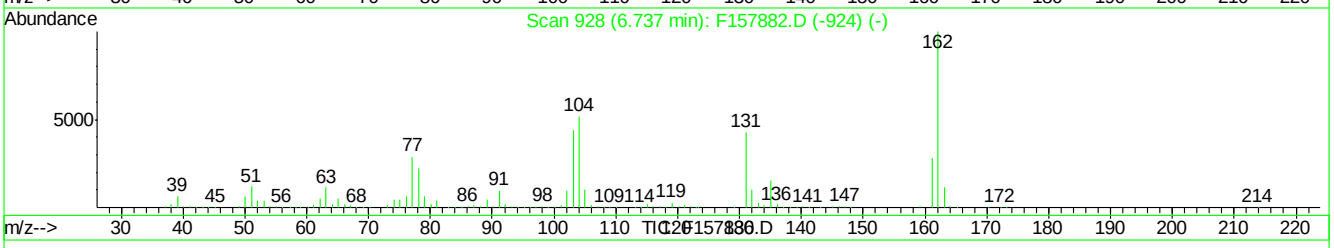
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.80min 32.38ppm

response 139980

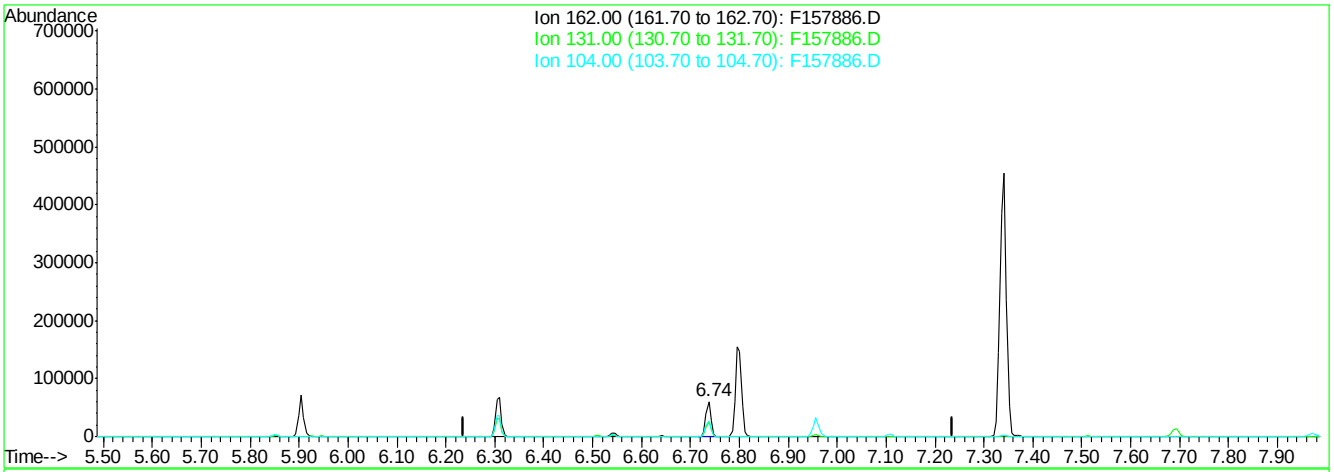
Ion	Exp%	Act%
162.00	100	100
131.00	5.40	2.07
104.00	6.20	19.34
0.00	0.00	0.00

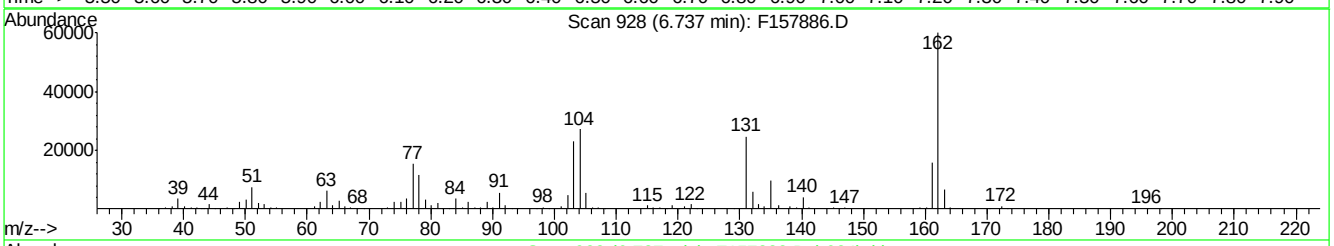
F157886.D MF6644.M Sun Jun 12 11:41:44 2016 RT1

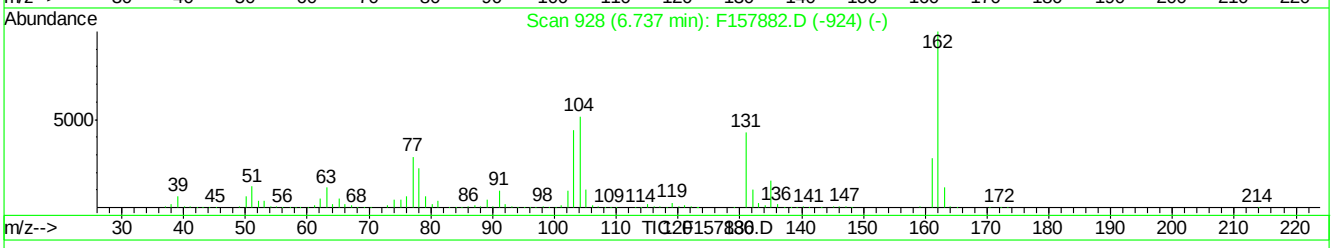
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.74min 10.45ppm m

response 45167

Ion	Exp%	Act%
162.00	100	100
131.00	5.40	6.42
104.00	6.20	59.95#
0.00	0.00	0.00

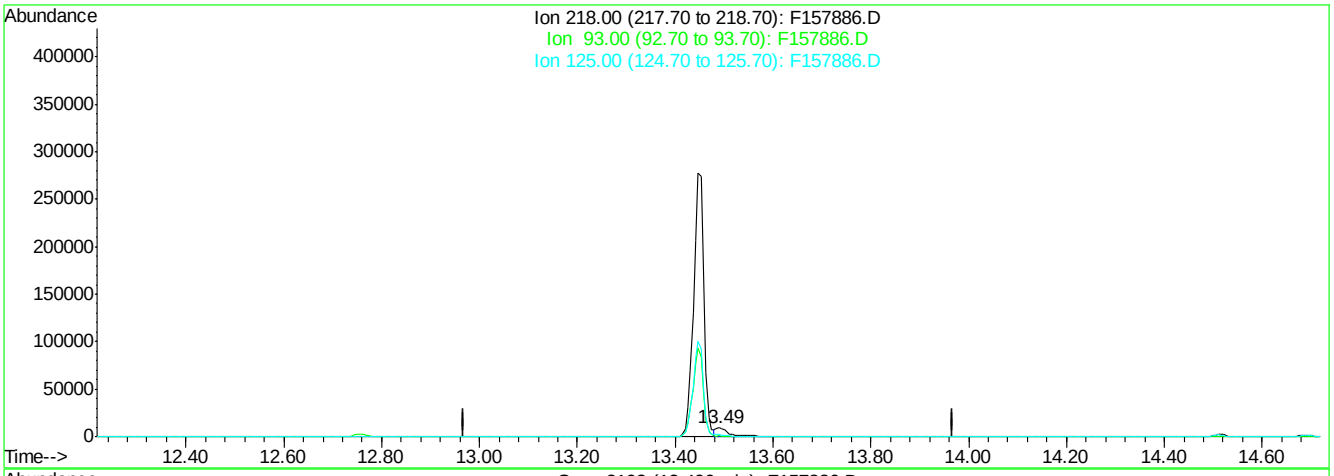
F157886.D MF6644.M Sun Jun 12 11:41:55 2016 RT1

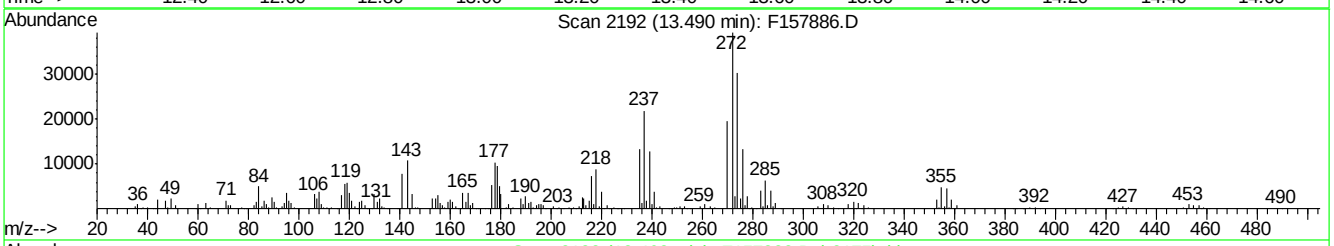
SGS ACCUTEST JC22206

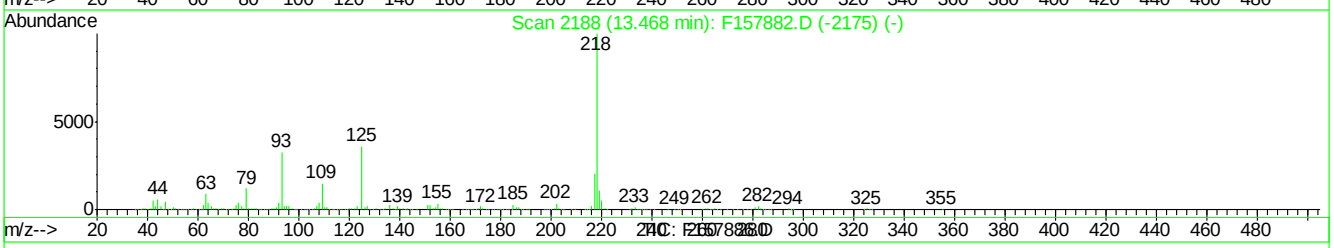
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:41 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(151) Famphur (t)

13.49min 6.30ppm

response 15443

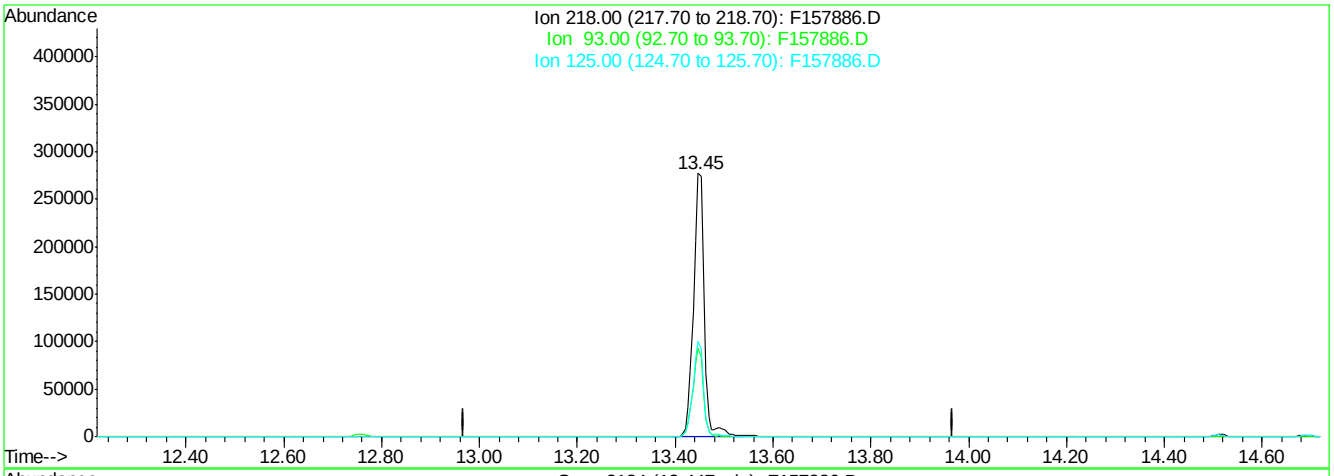
Ion	Exp%	Act%
218.00	100	100
93.00	32.50	4.39
125.00	35.90	18.51
0.00	0.00	0.00

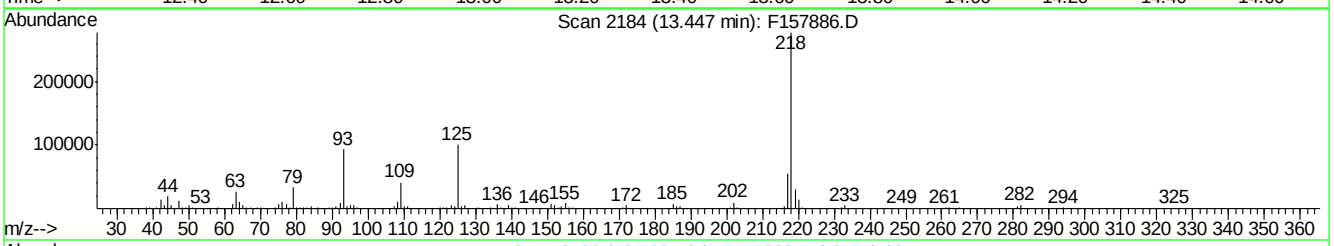
F157886.D MF6644.M Sun Jun 12 11:42:18 2016 RT1

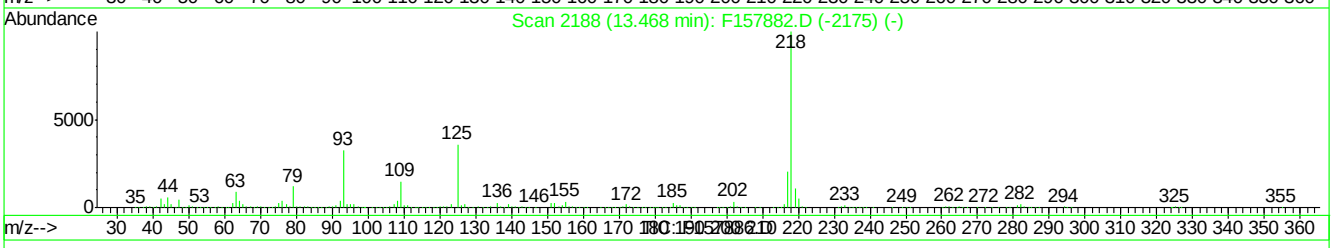
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157886.D Vial: 6
Acq On : 10 Jun 2016 6:58 pm Operator: ashleyd
Sample : ic6647-10 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:42 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(151) Famphur (t)

13.45min 172.60ppm m

response 423298

Ion	Exp%	Act%
218.00	100	100
93.00	32.50	33.68
125.00	35.90	36.32
0.00	0.00	0.00

F157886.D MF6644.M Sun Jun 12 11:42:39 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:43:02 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	194321	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	786131	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	444319	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	658704	40.00	ppm	-0.02
83) Chrysene-d12	14.68	240	542018	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	482481	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	194321	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	786131	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	444319	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	658704	40.00	ppm	0.00
147) Chrysene-d12A	14.68	240	542018	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	482481	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	194321	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	786131	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	444319	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	658704	40.00	ppm	-0.02
167) Chrysene-d12b	14.68	240	542018	40.00	ppm	-0.03
169) 1,4-Dichlorobenzene-d4c	4.93	152	194321	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	786131	40.00	ppm	-0.01
176) Chrysene-d12c	14.68	240	542018	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	786131	40.00	ppm	-0.01
180) Chrysene-d12B	14.68	240	542018	40.00	ppm	-0.04

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.48	93	49288	5.60	ppm	97
104) Pentachloroethane	4.72	167	14935	5.89	ppm	92
105) Methyl methanesulfonate	3.81	80	22637	5.65	ppm	94
106) N-Nitrosodiethylamine	4.12	102	21086	5.51	ppm	97
107) N-Nitrosomethylethylamine	3.57	42	11807	5.04	ppm	97
108) Ethyl methanesulfonate	4.35	79	32106	5.59	ppm	95
109) N-Nitrosopyrrolidine	5.20	41	9740m	6.02	ppm	
110) N-Nitrosomorpholine	5.23	56	16910	5.77	ppm	98
111) o-Toluidine	5.24	106	69006	6.57	ppm	97
113) O,O,O-Triethyl phosphoroth	5.64	198	16521	5.89	ppm	80
114) N-Nitrosopiperidine	5.45	42	15710	5.69	ppm	98
115) A,A-Dimethylphenethylamine	5.85	58	60933m	4.57	ppm	

(#) = qualifier out of range (m) = manual integration
F157887.D MF6644.M Sun Jun 12 11:45:14 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:43:02 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116)	Hexachloropropene	5.93	213	19075	5.38	ppm	97
117)	p-Phenylenediamine	6.15	108	18402m	5.95	ppm	
118)	N-Nitrosodi-n-butylamine	6.13	84	25648	5.52	ppm	99
119)	Safrole	6.31	162	28350	5.69	ppm	96
120)	Isosafrole	6.74	162	22970m	5.32	ppm	
122)	Thionazin	7.92	143	8530	4.91	ppm	96
123)	Tetraethyl dithiopyrophosp	8.33	322	7093	4.71	ppm	100
124)	Phorate	8.53	75	46033	5.51	ppm	100
125)	Phenacetin	8.53	108	31696	4.28	ppm	97
126)	1,4-Naphthoquinone	6.96	158	20547	5.18	ppm	93
127)	m-Dinitrobenzene	7.08	168	7921	3.78	ppm	93
128)	Pentachlorobenzene	7.51	250	23179	5.82	ppm	98
129)	1-Naphthylamine	7.65	143	58025	5.70	ppm	97
130)	2-Naphthylamine	7.74	143	63574	5.34	ppm	98
131)	5-Nitro-o-toluidine	7.97	152	18558	4.65	ppm	96
133)	Disulfoton	9.35	88	36050	5.26	ppm	100
134)	Dinoseb	9.32	211	6387	2.27	ppm	86
135)	Dimethoate	8.77	87	25873	5.12	ppm	97
136)	4-Aminobiphenyl	9.02	169	67360	11.19	ppm	100
137)	Methyl parathion	10.00	125	13265	4.00	ppm	98
138)	Parathion	10.75	109	11254	3.99	ppm	98
139)	Diphenylamine	8.11	169	112791	12.31	ppm	100
140)	Isodrin	11.25	193	10490	5.46	ppm	96
141)	Diallate	8.64	86	5623	4.40	ppm	93
142)	Pentachloronitrobenzene	9.03	295	5536	10.75	ppm	99
143)	Pronamide	9.13	173	24787	4.42	ppm	98
144)	4-Nitroquinoline 1-oxide	10.75	190	16888	9.21	ppm	89
145)	Methapyriline	10.97	58	26157	7.88	ppm	96
146)	sym-Trinitrobenzene	8.46	213	3630	2.54	ppm	87
148)	Aramite	12.66	185	3802	6.95	ppm	86
149)	p-(Dimethylamine)azobenzen	12.76	120	26871	4.45	ppm	97
150)	Kepone	13.49	272	41071	86.06	ppm	96
151)	Famphur	13.44	218	197661	89.41	ppm	96
152)	2-Acetylaminofluorene	14.04	181	22846	3.09	ppm	95
153)	3,3'-Dimethylbenzidine	13.51	212	41355	25.78	ppm	97
154)	Chlorobenzilate	12.90	251	18468	4.36	ppm	87
156)	4,4-Methylene-bis-(2-chlor	14.73	266	6923	5.61	ppm	94
157)	3-Methylcholanthrene	18.34	268	30095	3.94	ppm	95
158)	Hexachlorophene	17.47	196	3401	3.26	ppm	96

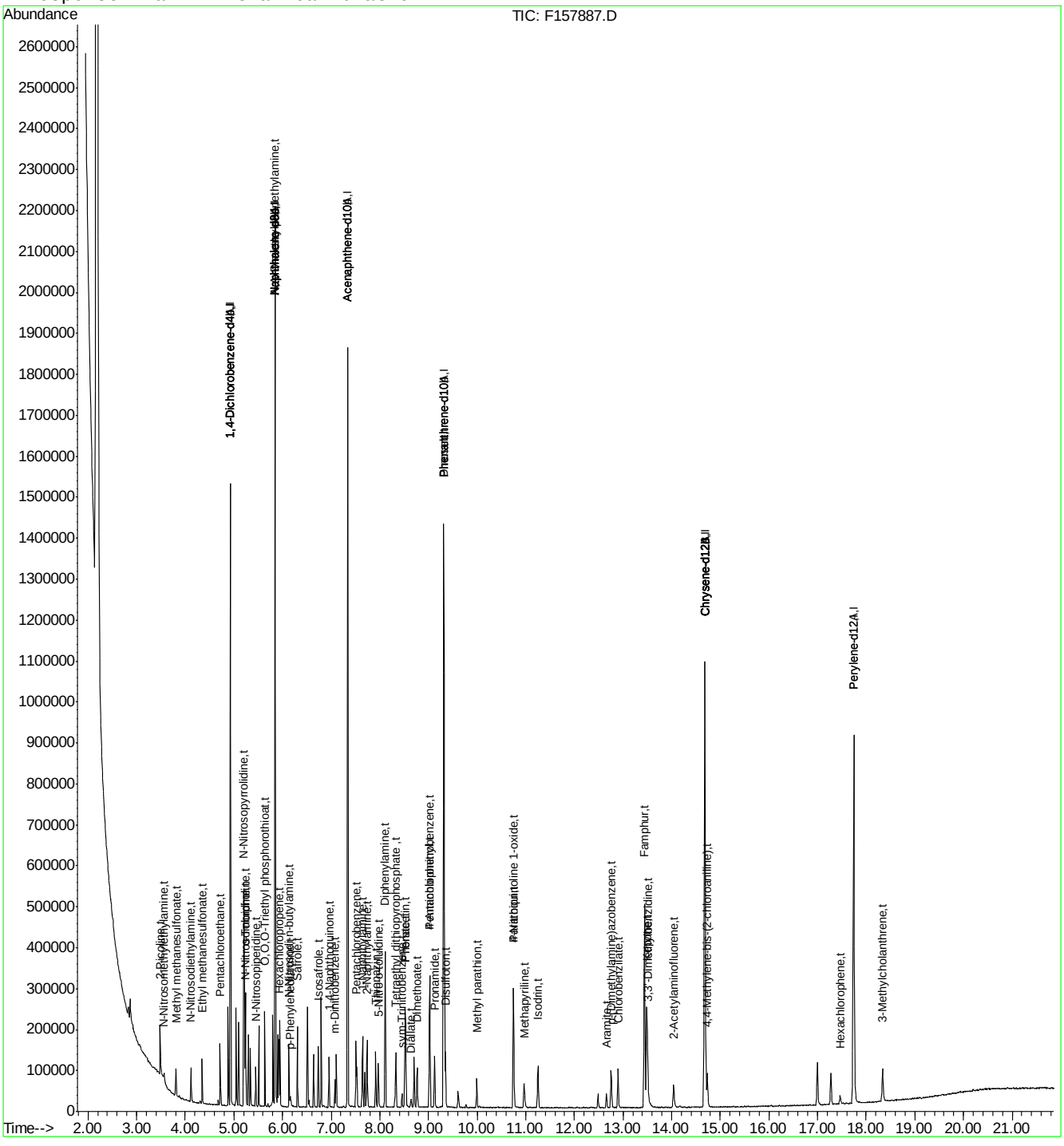
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:45 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration



Manual Integration Approval Summary

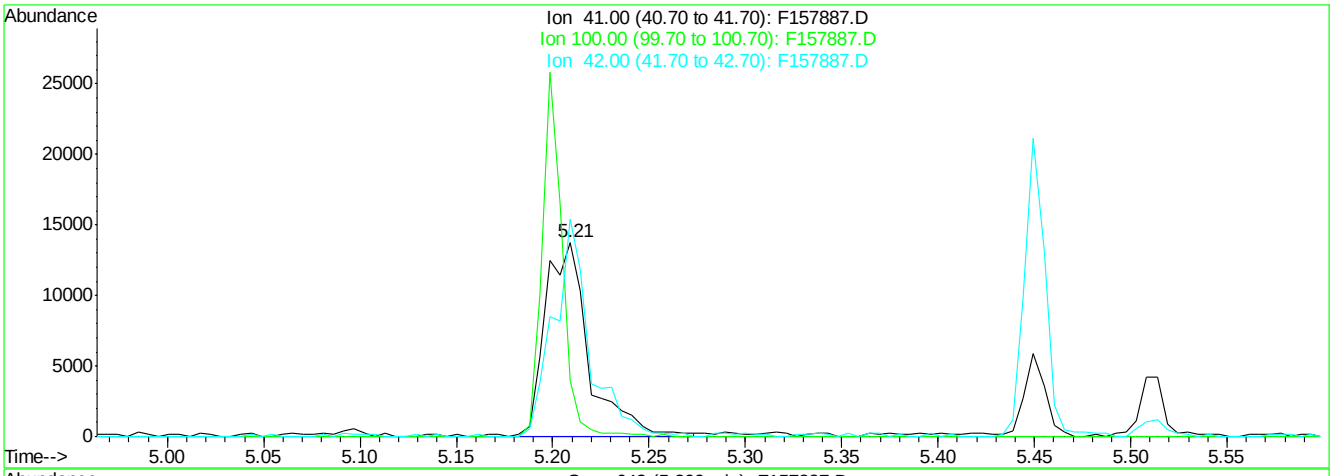
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157887.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 19:27	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

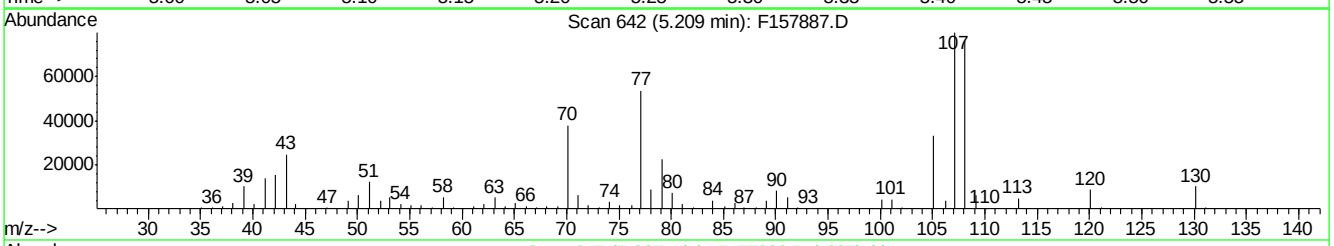
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.20	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.85	Split peak
p-Phenylenediamine	106-50-3		6.15	Split peak
Isosafrole	120-58-1		6.74	Poor instrument integration

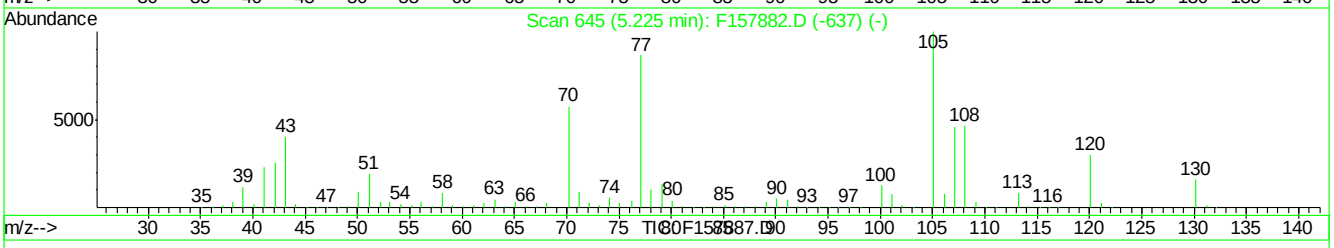
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:43 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 13.56ppm

response 21934

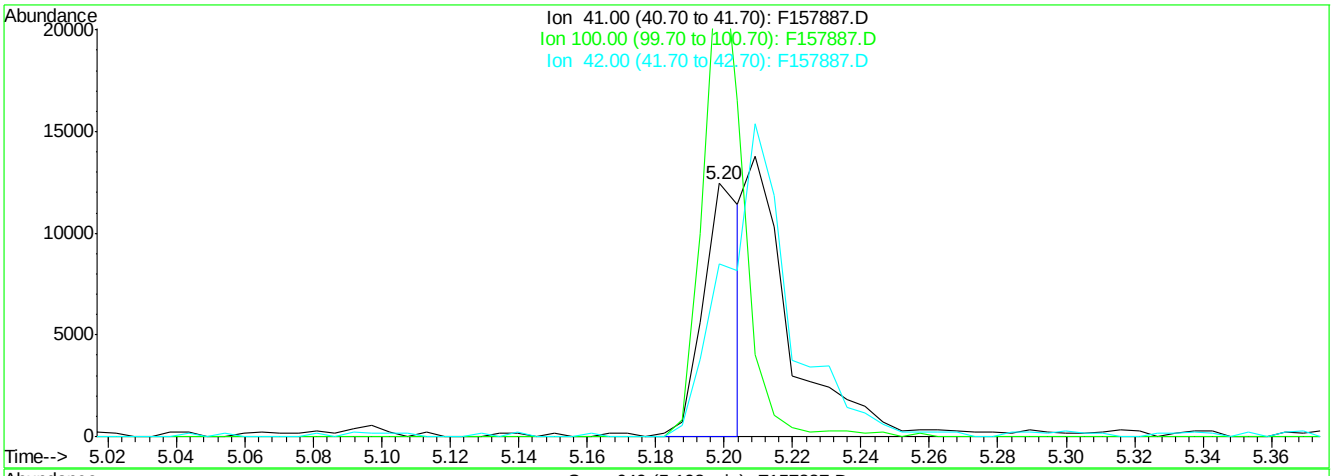
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	29.32#
42.00	93.10	111.99
0.00	0.00	0.00

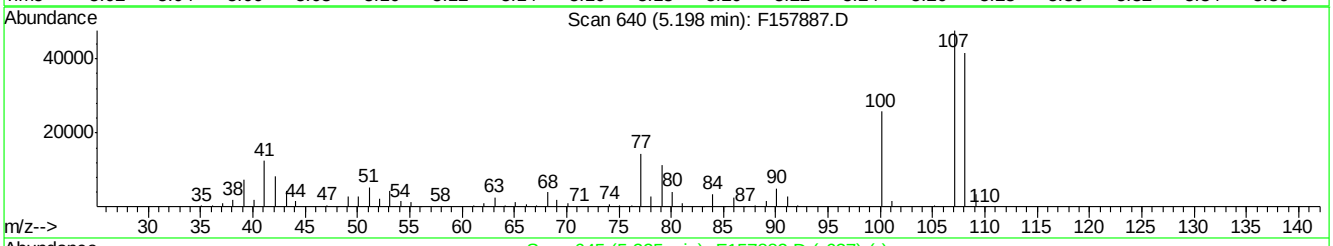
F157887.D MF6644.M Sun Jun 12 11:43:40 2016 RT1

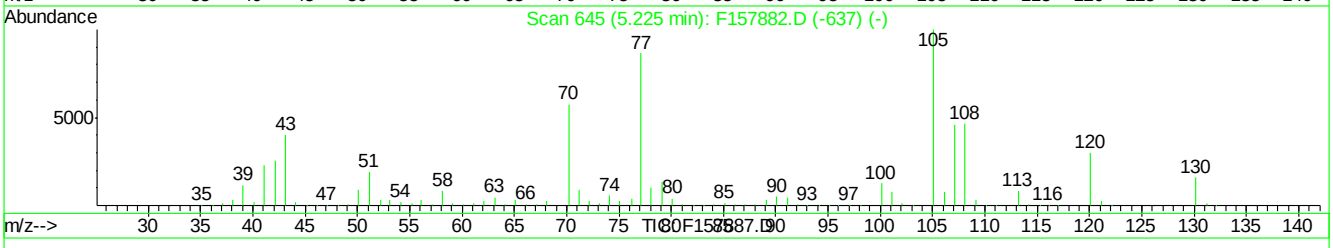
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:43 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.20min 6.02ppm m

response 9740

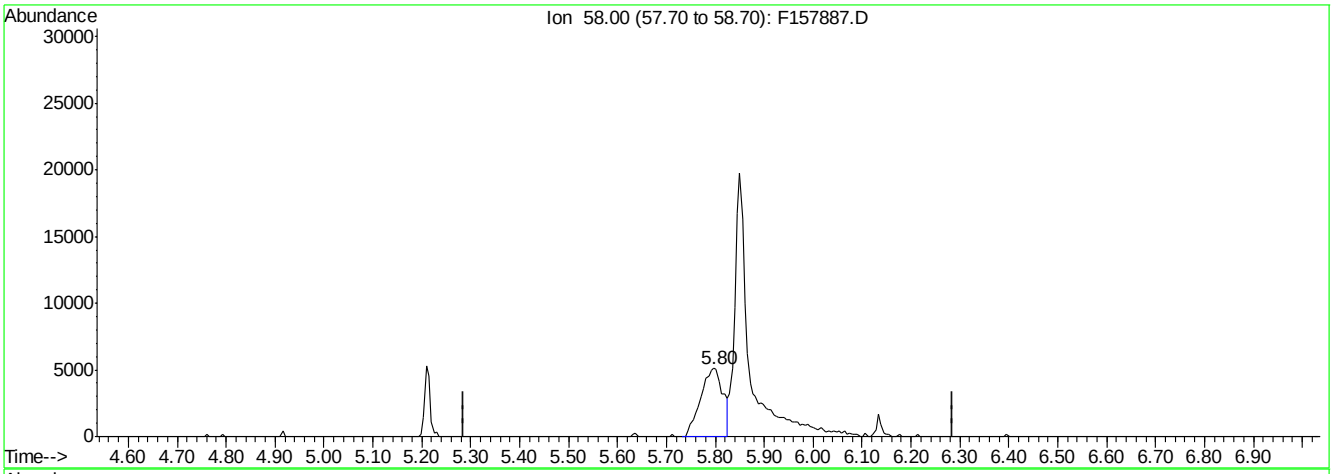
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	207.02#
42.00	93.10	68.12
0.00	0.00	0.00

F157887.D MF6644.M Sun Jun 12 11:43:50 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:43 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.80min 1.22ppm

response 16269

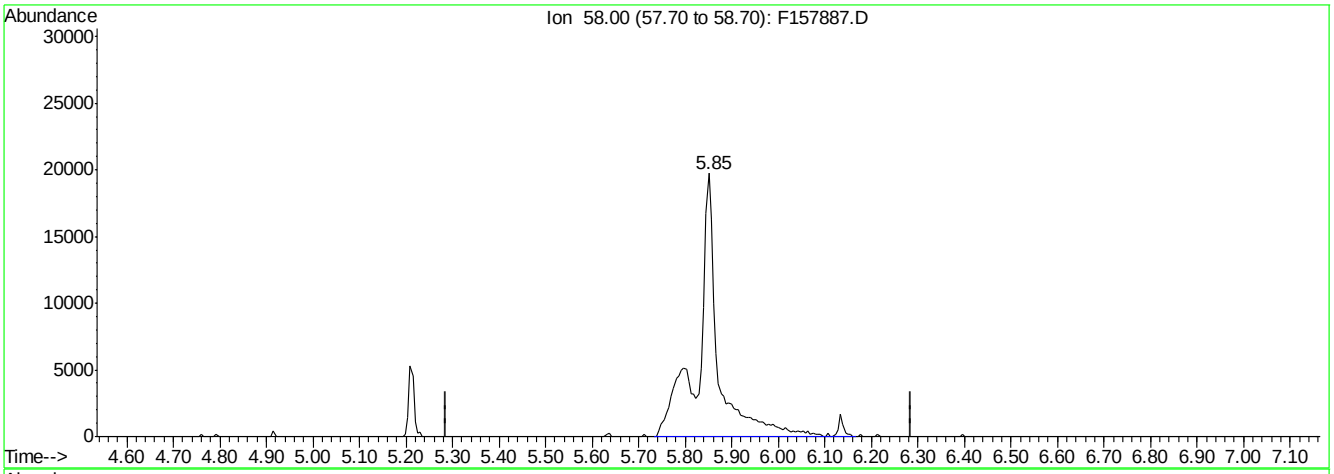
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

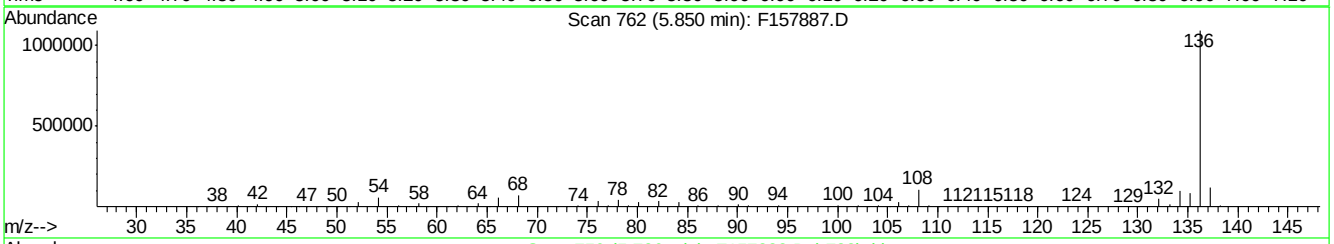
F157887.D MF6644.M Sun Jun 12 11:43:56 2016 RT1

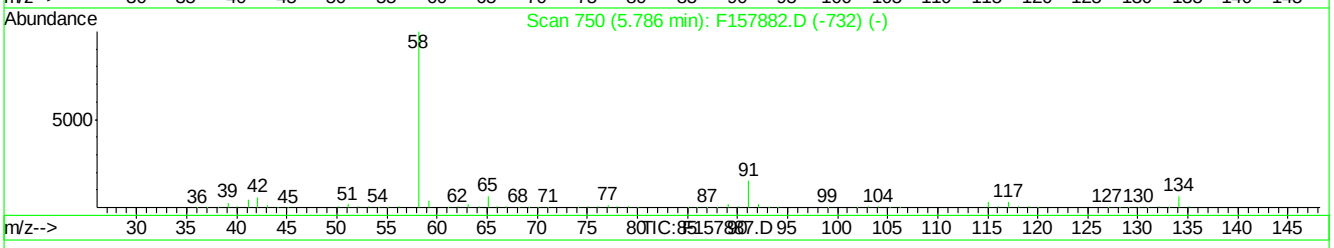
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.85min 4.57ppm m

response 60933

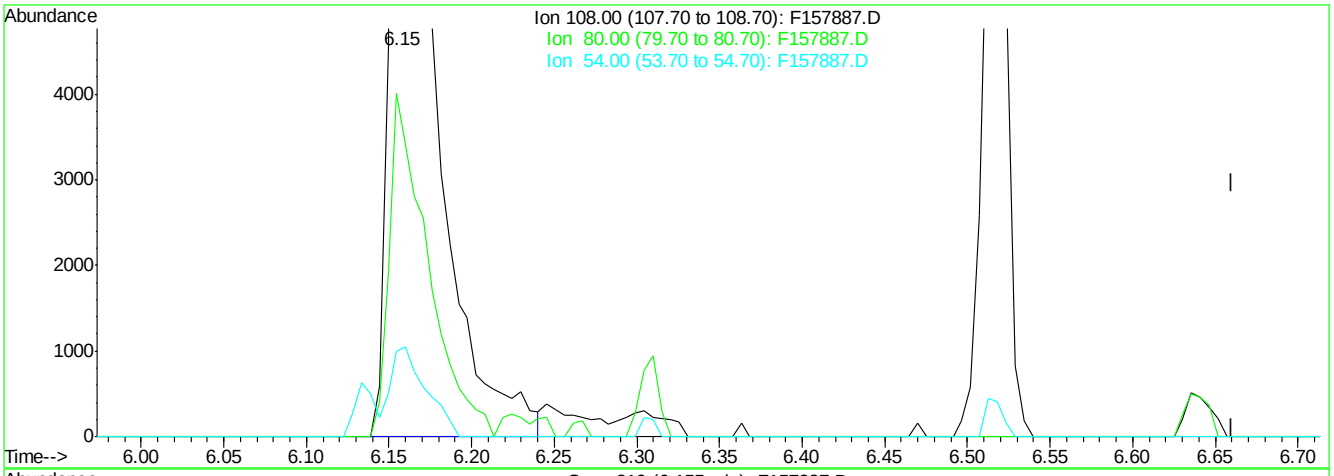
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F157887.D MF6644.M Sun Jun 12 11:44:13 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration



(117) p-Phenylenediamine (t)

6.15min 5.56ppm

response 17196

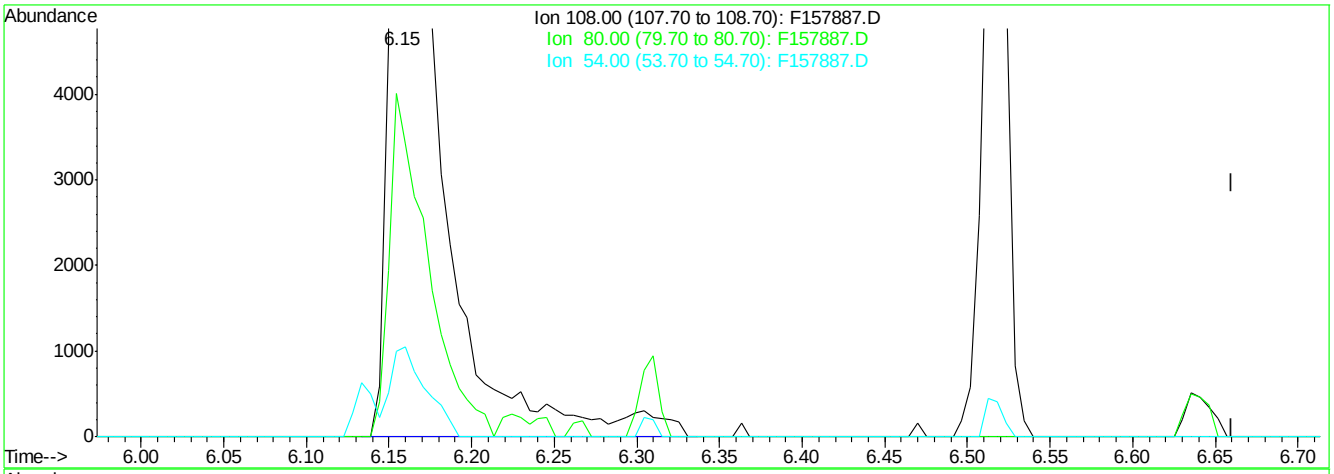
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	41.97
54.00	9.00	7.26
0.00	0.00	0.00

F157887.D MF6644.M Sun Jun 12 11:44:19 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration



(117) p-Phenylenediamine (t)

6.15min 5.95ppm m

response 18402

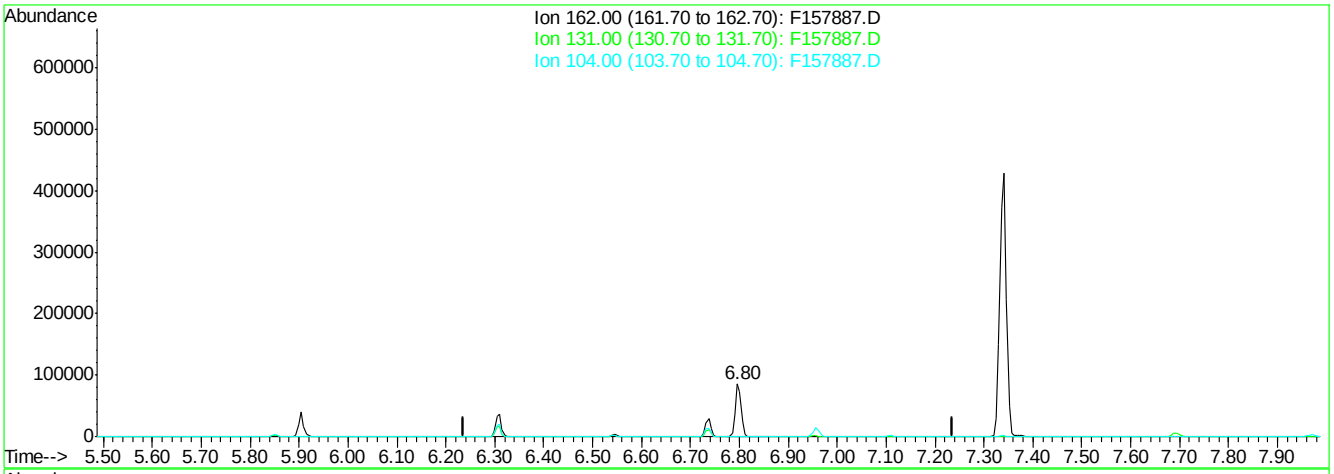
Ion	Exp%	Act%
108.00	100	100
80.00	40.30	42.43
54.00	9.00	10.50
0.00	0.00	0.00

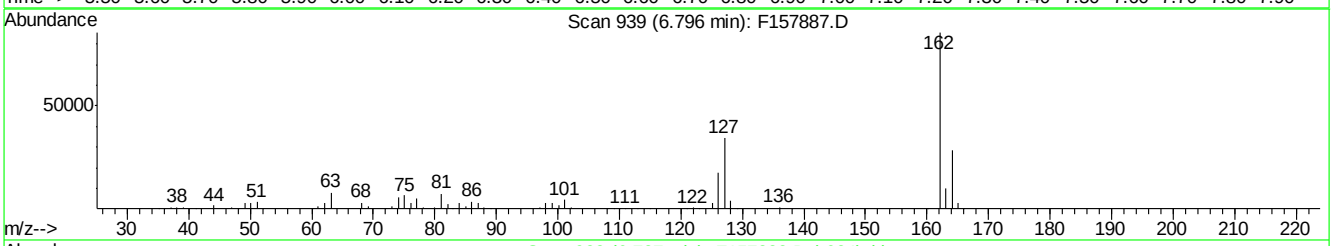
F157887.D MF6644.M Sun Jun 12 11:44:24 2016 RT1

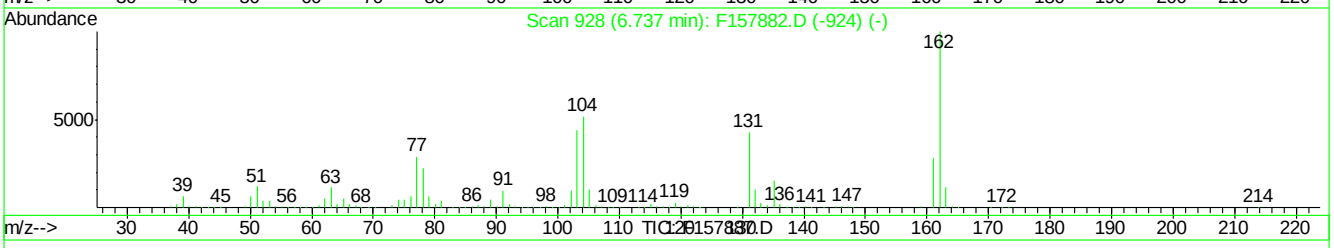
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.80min 17.12ppm

response 73896

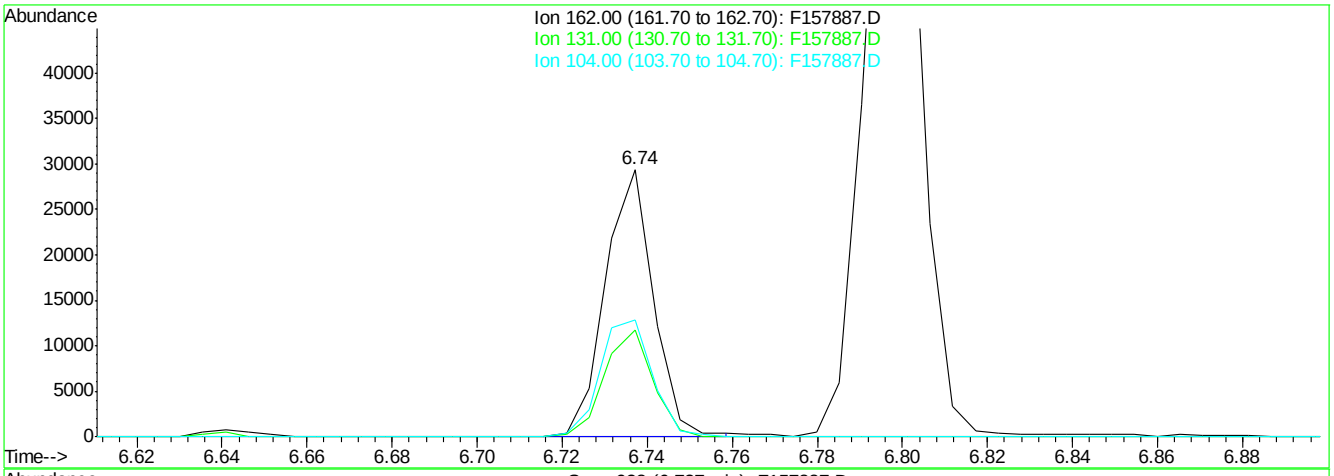
Ion	Exp%	Act%
162.00	100	100
131.00	5.40	1.87
104.00	6.20	17.16
0.00	0.00	0.00

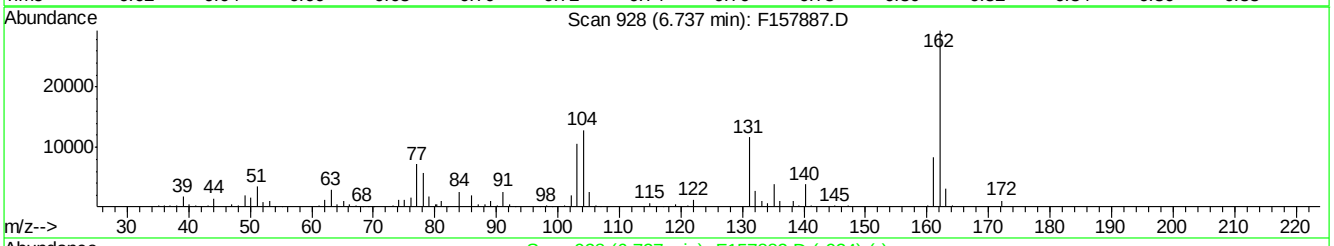
F157887.D MF6644.M Sun Jun 12 11:44:29 2016 RT1

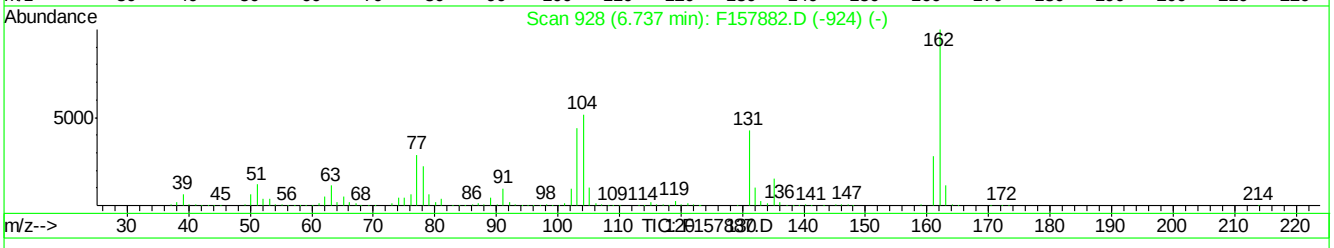
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157887.D Vial: 7
Acq On : 10 Jun 2016 7:27 pm Operator: ashleyd
Sample : ic6647-5 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(120) Isosafrole (t)

6.74min 5.32ppm m

response 22970

Ion	Exp%	Act%
162.00	100	100
131.00	5.40	6.03
104.00	6.20	55.22#
0.00	0.00	0.00

F157887.D MF6644.M Sun Jun 12 11:44:35 2016 RT1

F157888.D

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:45:20 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	179257	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	733756	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	418370	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	644276	40.00	ppm	-0.02
83) Chrysene-d12	14.68	240	543646	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	489983	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	179257	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	733756	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	418370	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	644276	40.00	ppm	0.00
147) Chrysene-d12A	14.68	240	543646	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	489983	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	179257	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	733756	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	418370	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	644276	40.00	ppm	-0.02
167) Chrysene-d12b	14.68	240	543646	40.00	ppm	-0.03
169) 1,4-Dichlorobenzene-d4c	4.93	152	179257	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	733756	40.00	ppm	-0.01
176) Chrysene-d12c	14.68	240	543646	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	733756	40.00	ppm	-0.01
180) Chrysene-d12B	14.68	240	543646	40.00	ppm	-0.04

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.48	93	18343	2.26	ppm	91
104) Pentachloroethane	4.72	167	5229	2.24	ppm	82
105) Methyl methanesulfonate	3.80	80	8303	2.25	ppm	97
106) N-Nitrosodiethylamine	4.12	102	7636	2.16	ppm	97
107) N-Nitrosomethylethylamine	3.57	42	4281	1.98	ppm	90
108) Ethyl methanesulfonate	4.35	79	12073	2.28	ppm	99
109) N-Nitrosopyrrolidine	5.20	41	3879m	2.60	ppm	
110) N-Nitrosomorpholine	5.23	56	6141	2.27	ppm	99
111) o-Toluidine	5.24	106	24661	2.55	ppm	96
113) O,O,O-Triethyl phosphoroth	5.64	198	6245	2.39	ppm	76
114) N-Nitrosopiperidine	5.45	42	5924	2.30	ppm	95
115) A,A-Dimethylphenethylamine	5.82	58	21007	1.69	ppm	100

(#) = qualifier out of range (m) = manual integration
F157888.D MF6644.M Sun Jun 12 11:48:07 2016 RT1

7.6.79

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:45:20 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

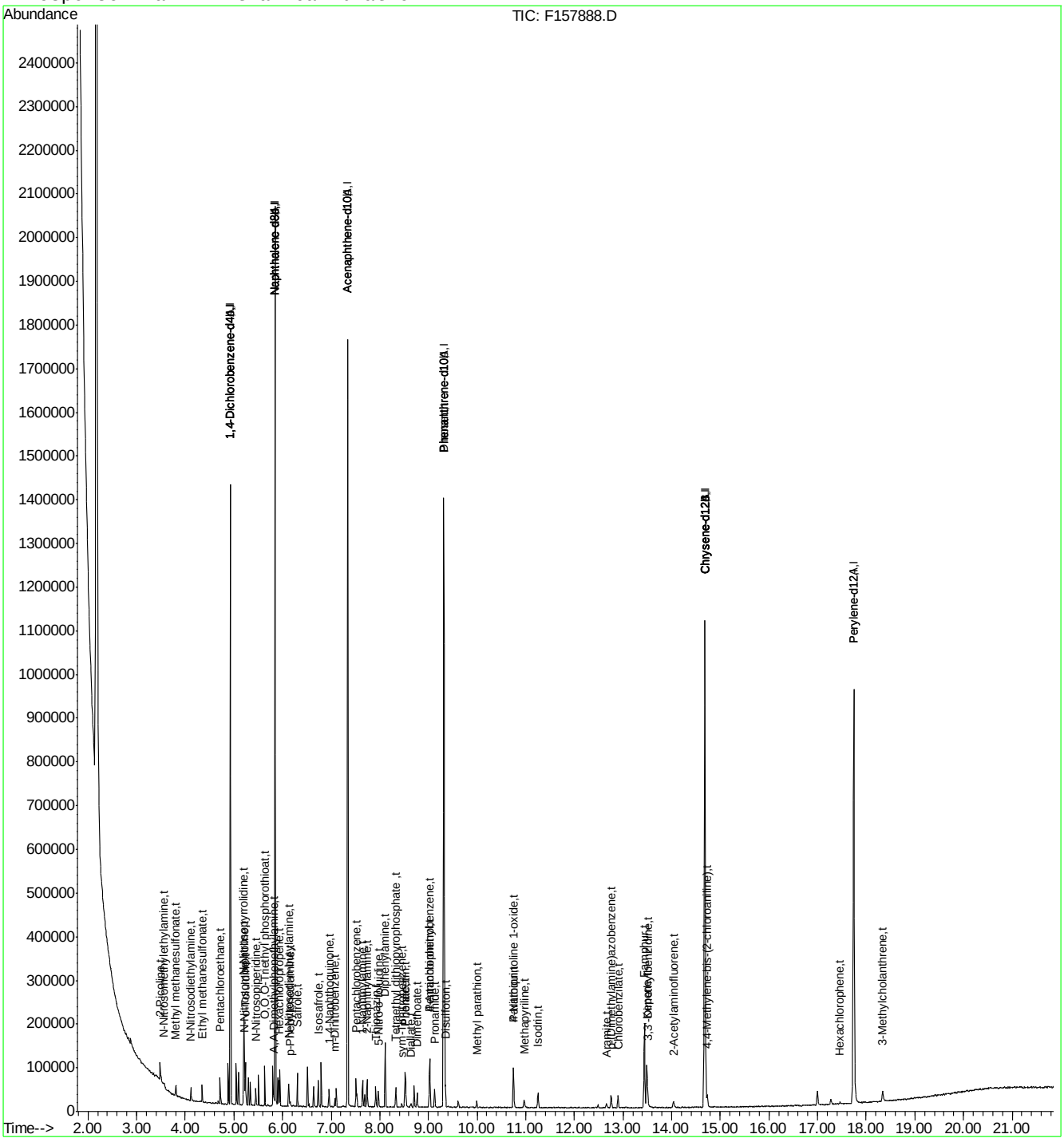
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.93	213	6788	2.05	ppm		93
117)	p-Phenylenediamine	6.15	108	5053	1.75	ppm		98
118)	N-Nitrosodi-n-butylamine	6.13	84	9448	2.18	ppm		98
119)	Safrole	6.30	162	10051	2.16	ppm		97
120)	Isosafrole	6.74	162	7951	1.97	ppm	#	1
122)	Thionazin	7.91	143	2784	1.70	ppm		90
123)	Tetraethyl dithiopyrophosp	8.33	322	2652	1.87	ppm		100
124)	Phorate	8.53	75	16145	2.05	ppm		100
125)	Phenacetin	8.53	108	10114	1.45	ppm		92
126)	1,4-Naphthoquinone	6.96	158	6330	1.70	ppm		93
127)	m-Dinitrobenzene	7.08	168	2418	1.22	ppm		95
128)	Pentachlorobenzene	7.51	250	9167	2.44	ppm		94
129)	1-Naphthylamine	7.65	143	19665	2.05	ppm		96
130)	2-Naphthylamine	7.74	143	24888	2.22	ppm		99
131)	5-Nitro-o-toluidine	7.97	152	5894	1.57	ppm		100
133)	Disulfoton	9.35	88	12636	1.88	ppm		89
134)	Dinoseb	9.32	211	1843	0.67	ppm	#	41
135)	Dimethoate	8.77	87	8788	1.78	ppm		96
136)	4-Aminobiphenyl	9.02	169	25239	4.29	ppm		99
137)	Methyl parathion	10.00	125	3784	1.17	ppm		82
138)	Parathion	10.75	109	3256	1.18	ppm		92
139)	Diphenylamine	8.11	169	42107	4.70	ppm		96
140)	Isodrin	11.25	193	3958	2.11	ppm		95
141)	Diallate	8.64	86	1789	1.43	ppm		83
142)	Pentachloronitrobenzene	9.03	295	1893	3.76	ppm		94
143)	Pronamide	9.13	173	8414	1.54	ppm		92
144)	4-Nitroquinoline 1-oxide	10.75	190	3628	2.02	ppm	#	54
145)	Methapyriline	10.96	58	7986	2.46	ppm		96
146)	sym-Trinitrobenzene	8.46	213	974m	0.70	ppm		
148)	Aramite	12.66	185	1108m	2.02	ppm		
149)	p-(Dimethylamine)azobenzen	12.76	120	8442	1.40	ppm		93
150)	Kepone	13.49	272	16261	33.97	ppm		96
151)	Famphur	13.44	218	73420	33.11	ppm		97
152)	2-Acetylaminofluorene	14.03	181	5841	0.79	ppm		98
153)	3,3'-Dimethylbenzidine	13.51	212	13653	8.49	ppm		99
154)	Chlorobenzilate	12.90	251	6321	1.49	ppm		98
156)	4,4-Methylene-bis-(2-chlor	14.73	266	2110	1.68	ppm		83
157)	3-Methylcholanthrene	18.34	268	9148	1.18	ppm		99
158)	Hexachlorophene	17.46	196	1019	0.96	ppm		73

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:48 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration



Manual Integration Approval Summary

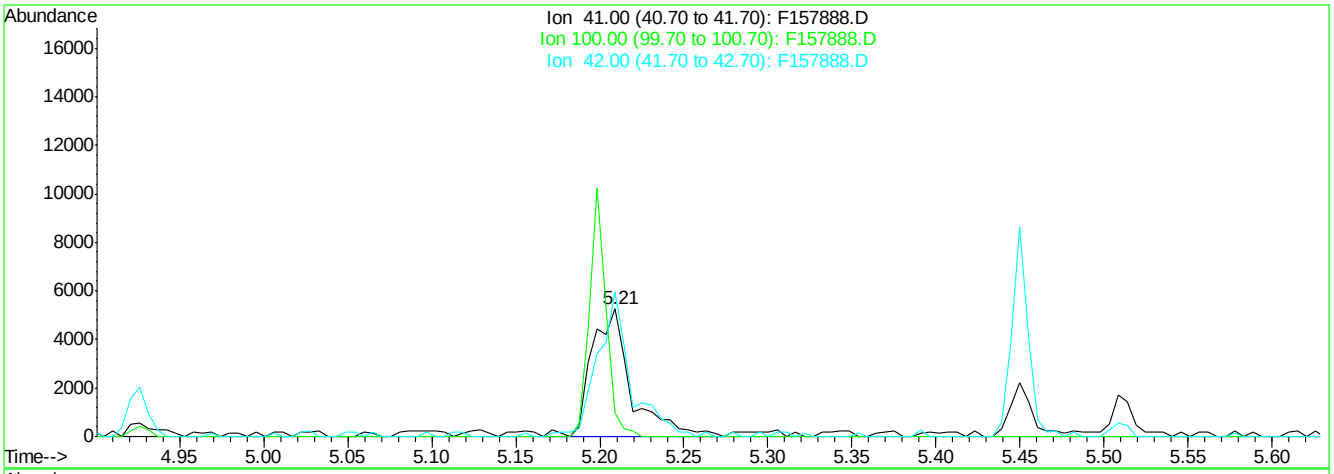
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157888.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 19:56	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

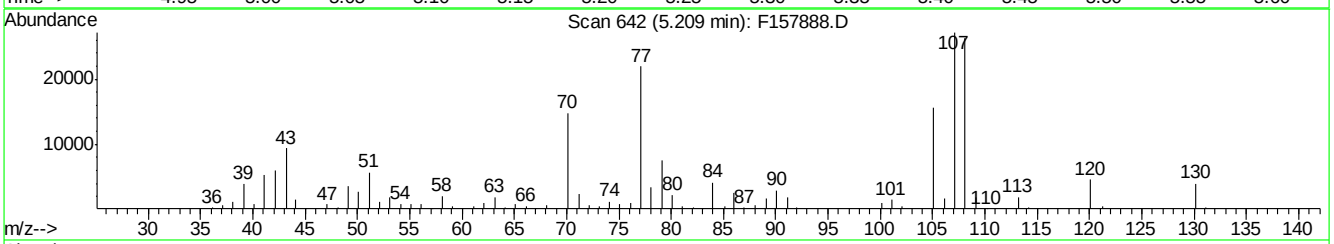
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.20	Overlapping peak
sym-Trinitrobenzene	99-35-4		8.46	Poor instrument integration
Aramite	140-57-8		12.66	Poor instrument integration

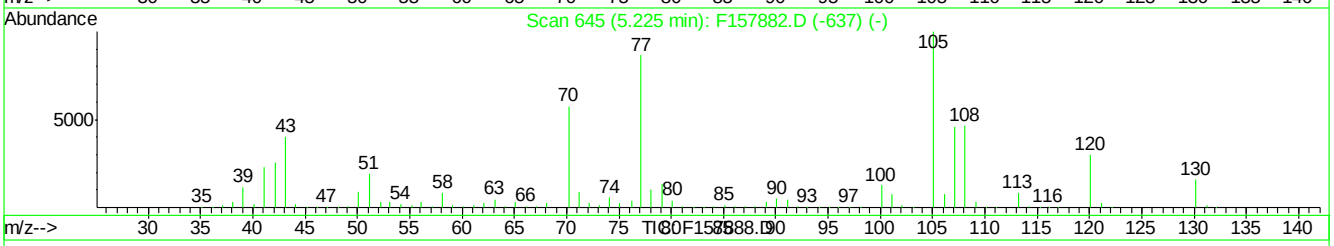
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 5.76ppm

response 8599

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	18.45#
42.00	93.10	113.45
0.00	0.00	0.00

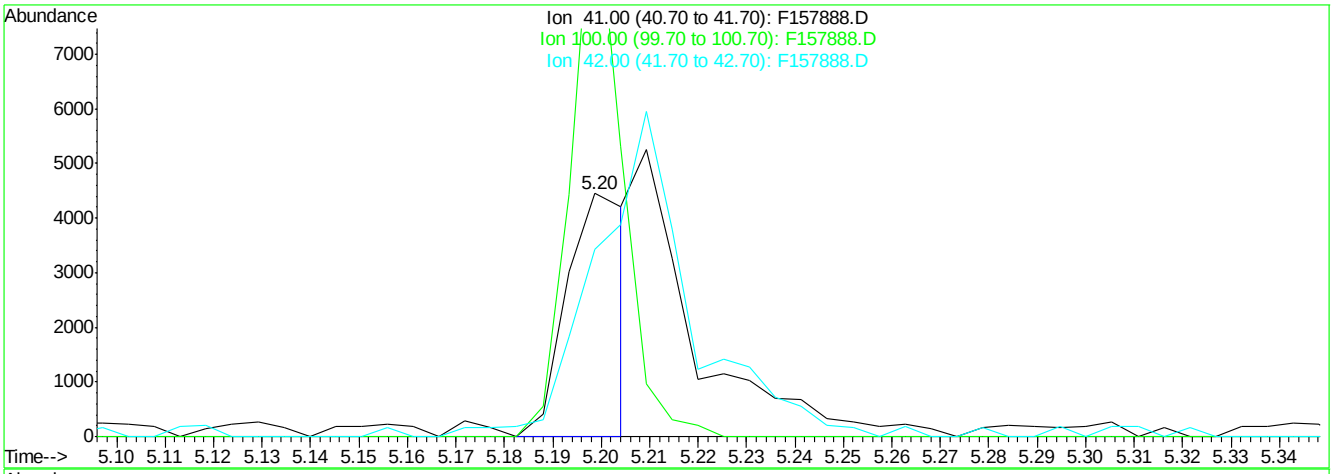
F157888.D MF6644.M Sun Jun 12 11:45:56 2016 RT1

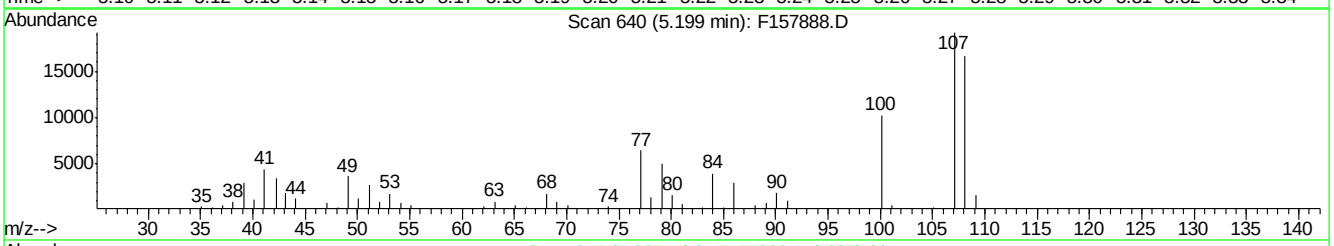
SGS ACCUTEST JC22206

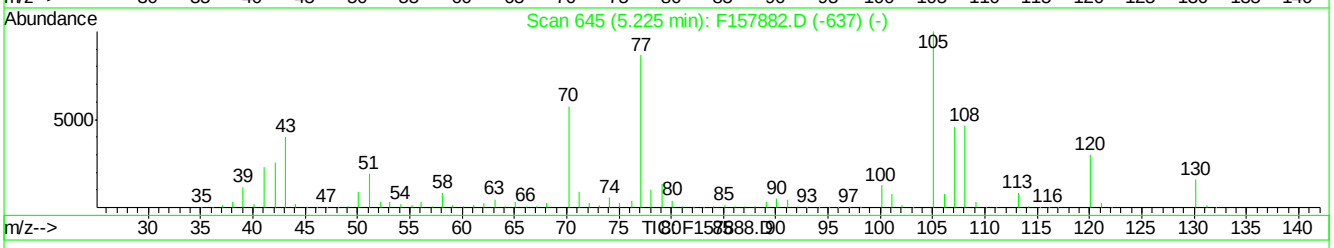
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.20min 2.60ppm m

response 3879

Ion	Exp%	Act%
41.00	100	100
100.00	132.60	230.43#
42.00	93.10	77.23
0.00	0.00	0.00

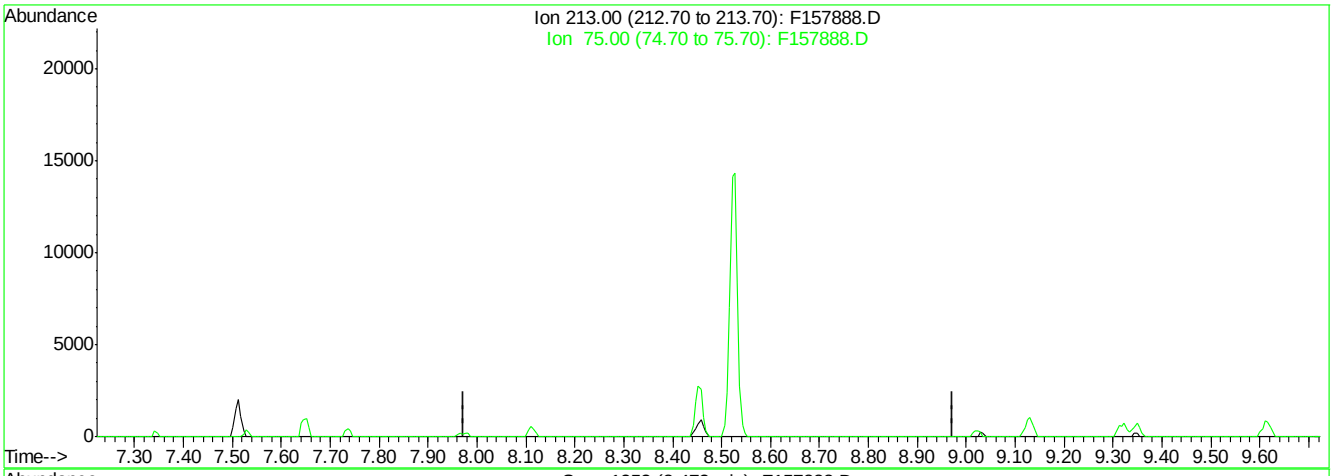
F157888.D MF6644.M Sun Jun 12 11:46:05 2016 RT1

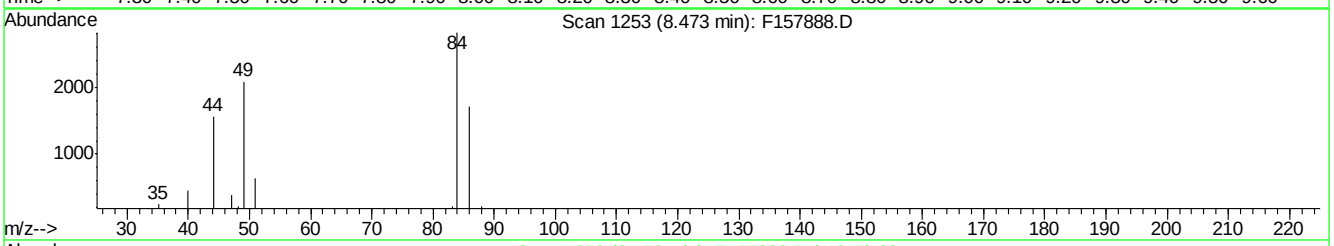
SGS ACCUTEST JC22206

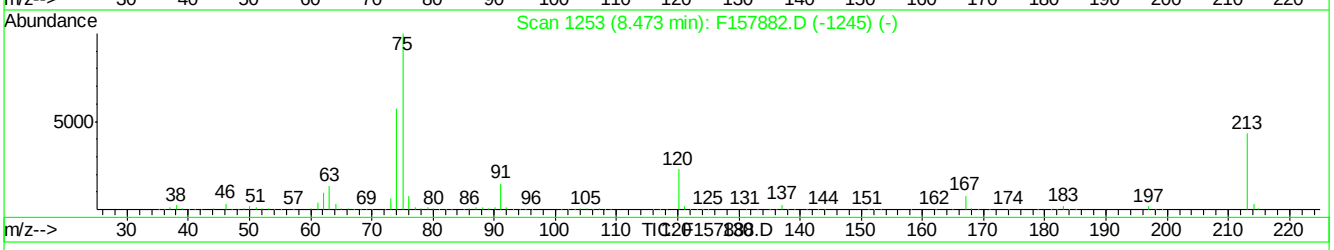
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(146) sym-Trinitrobenzene (t)

8.47min 0.00ppm

response 0

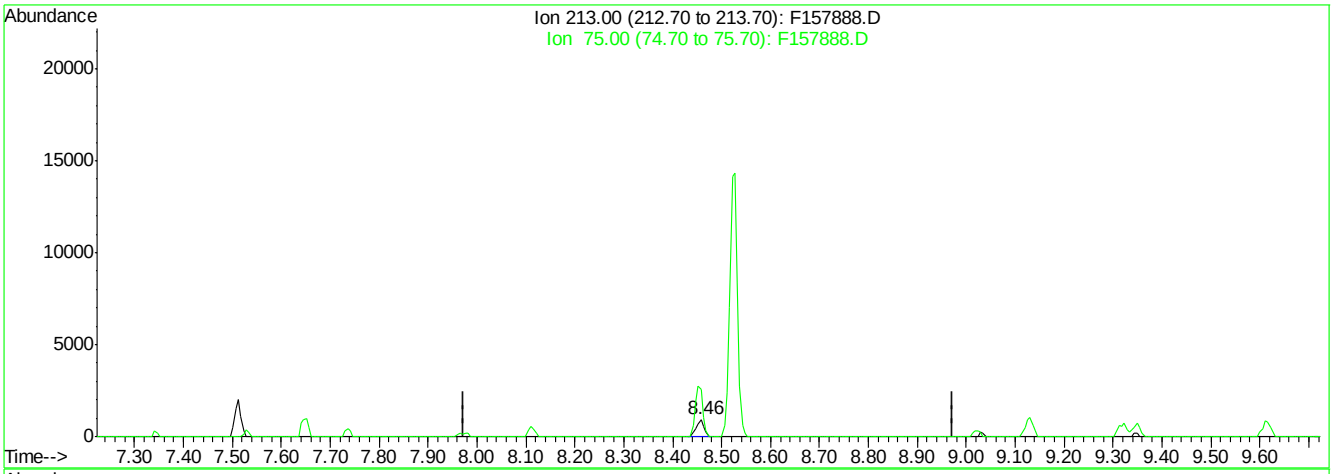
Ion	Exp%	Act%
213.00	100	0.00
75.00	231.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

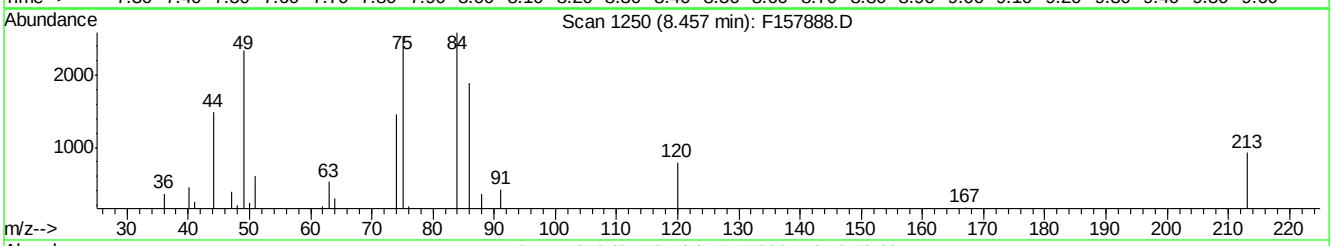
F157888.D MF6644.M Sun Jun 12 11:46:37 2016 RT1

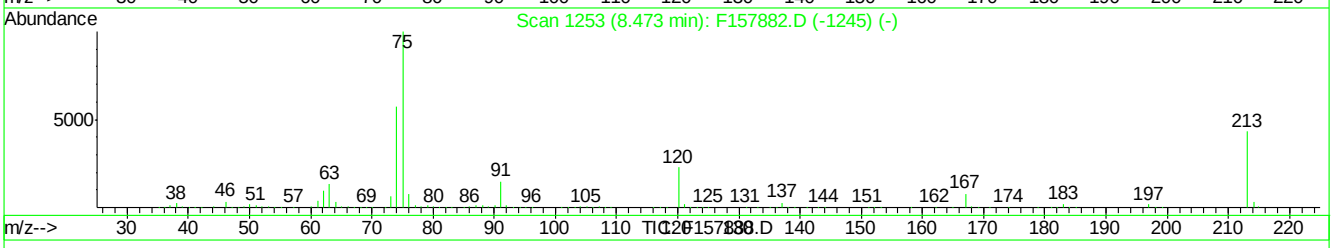
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(146) sym-Trinitrobenzene (t)

8.46min 0.70ppm m

response 974

Ion	Exp%	Act%
213.00	100	100
75.00	231.50	274.14#
0.00	0.00	0.00
0.00	0.00	0.00

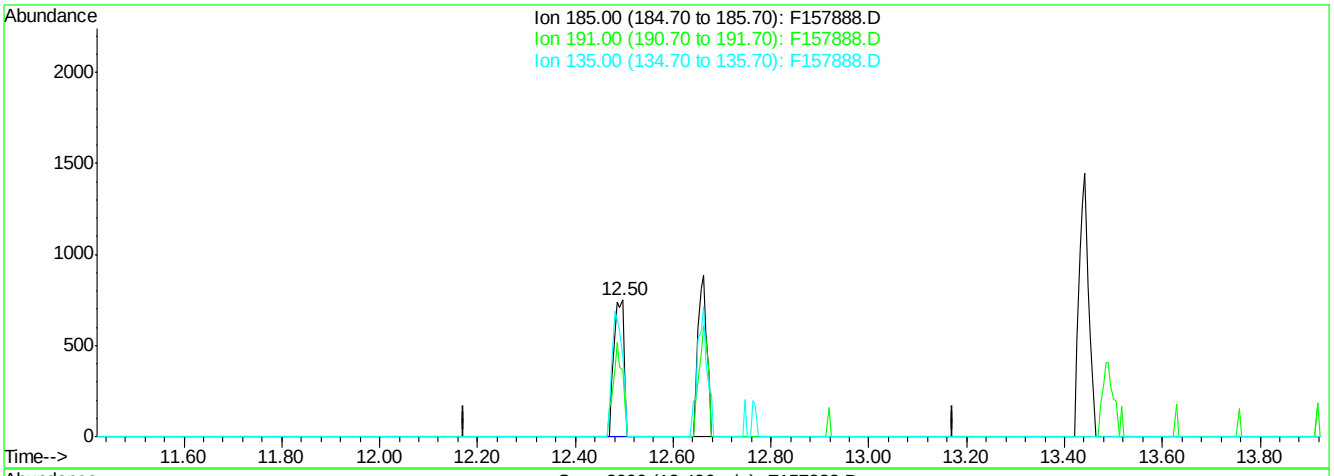
F157888.D MF6644.M Sun Jun 12 11:46:45 2016 RT1

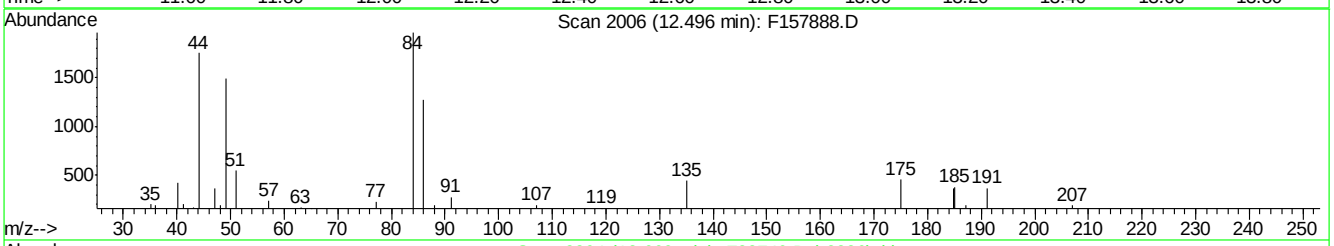
SGS ACCUTEST JC22206

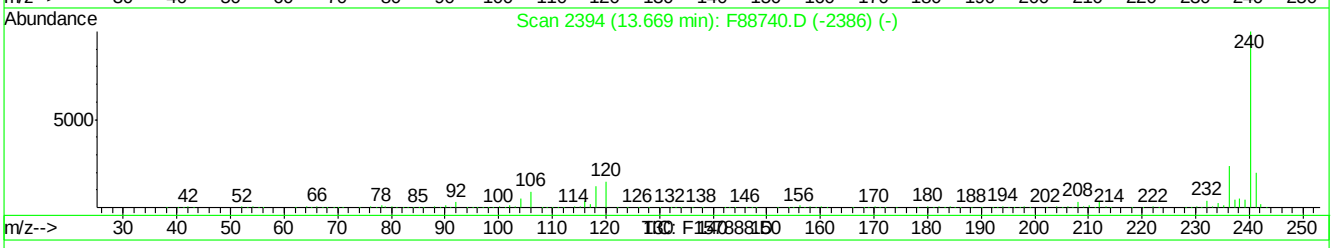
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(148) Aramite (t)

12.50min 1.95ppm

response 1067

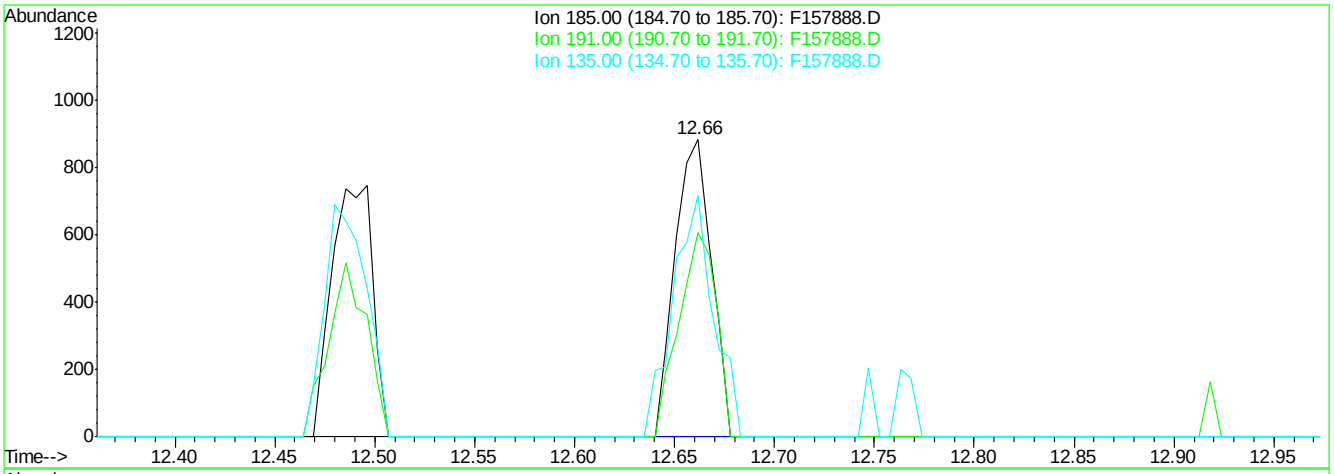
Ion	Exp%	Act%
185.00	100	100
191.00	47.10	48.80
135.00	45.00	58.82
0.00	0.00	0.00

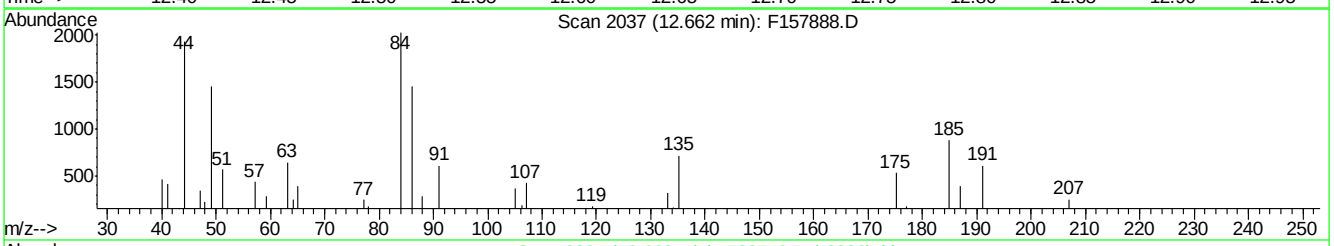
F157888.D MF6644.M Sun Jun 12 11:46:49 2016 RT1

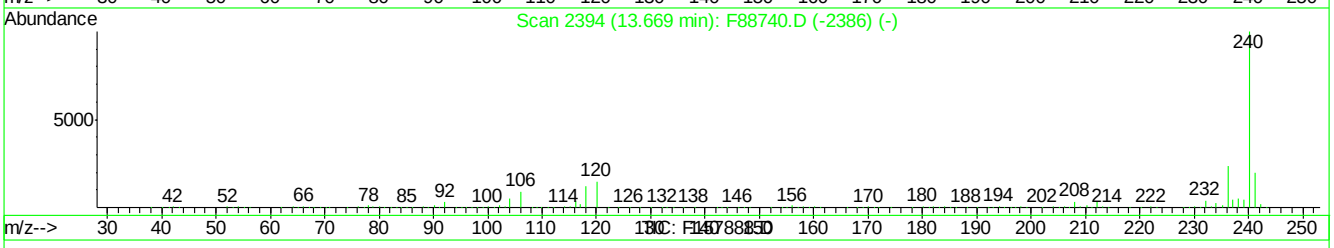
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157888.D Vial: 8
Acq On : 10 Jun 2016 7:56 pm Operator: ashleyd
Sample : ic6647-2 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(148) Aramite (t)

12.66min 2.02ppm m

response 1108

Ion	Exp%	Act%
185.00	100	100
191.00	47.10	68.67
135.00	45.00	81.11#
0.00	0.00	0.00

F157888.D MF6644.M Sun Jun 12 11:46:55 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:48:12 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	178227	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	722601	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	410902	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	610552	40.00	ppm	-0.02
83) Chrysene-d12	14.68	240	509027	40.00	ppm	-0.03
92) Perylene-d12	17.74	264	458466	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	178227	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	722601	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	410902	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	610552	40.00	ppm	0.00
147) Chrysene-d12A	14.68	240	509027	40.00	ppm	0.00
155) Perylene-d12A	17.74	264	458466	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.93	152	178227	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	722601	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	410902	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	610552	40.00	ppm	-0.02
167) Chrysene-d12b	14.68	240	509027	40.00	ppm	-0.03
169) 1,4-Dichlorobenzene-d4c	4.93	152	178227	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	722601	40.00	ppm	-0.01
176) Chrysene-d12c	14.68	240	509027	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	722601	40.00	ppm	-0.01
180) Chrysene-d12B	14.68	240	509027	40.00	ppm	-0.04

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.49	93	9230	1.14	ppm	95
104) Pentachloroethane	4.72	167	2851	1.23	ppm	95
105) Methyl methanesulfonate	3.81	80	4318	1.18	ppm	97
106) N-Nitrosodiethylamine	4.12	102	3610	1.03	ppm	95
107) N-Nitrosomethylethylamine	3.57	42	2367	1.10	ppm	85
108) Ethyl methanesulfonate	4.35	79	5881	1.12	ppm	97
109) N-Nitrosopyrrolidine	5.20	41	1909m	1.29	ppm	
110) N-Nitrosomorpholine	5.23	56	3219	1.20	ppm	93
111) o-Toluidine	5.24	106	13025	1.35	ppm	98
113) O,O,O-Triethyl phosphoroth	5.64	198	3159	1.23	ppm	96
114) N-Nitrosopiperidine	5.45	42	2967	1.17	ppm	99
115) A,A-Dimethylphenethylamine	5.81	58	9904m	0.81	ppm	

(#) = qualifier out of range (m) = manual integration
F157889.D MF6644.M Sun Jun 12 11:49:55 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:48:12 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

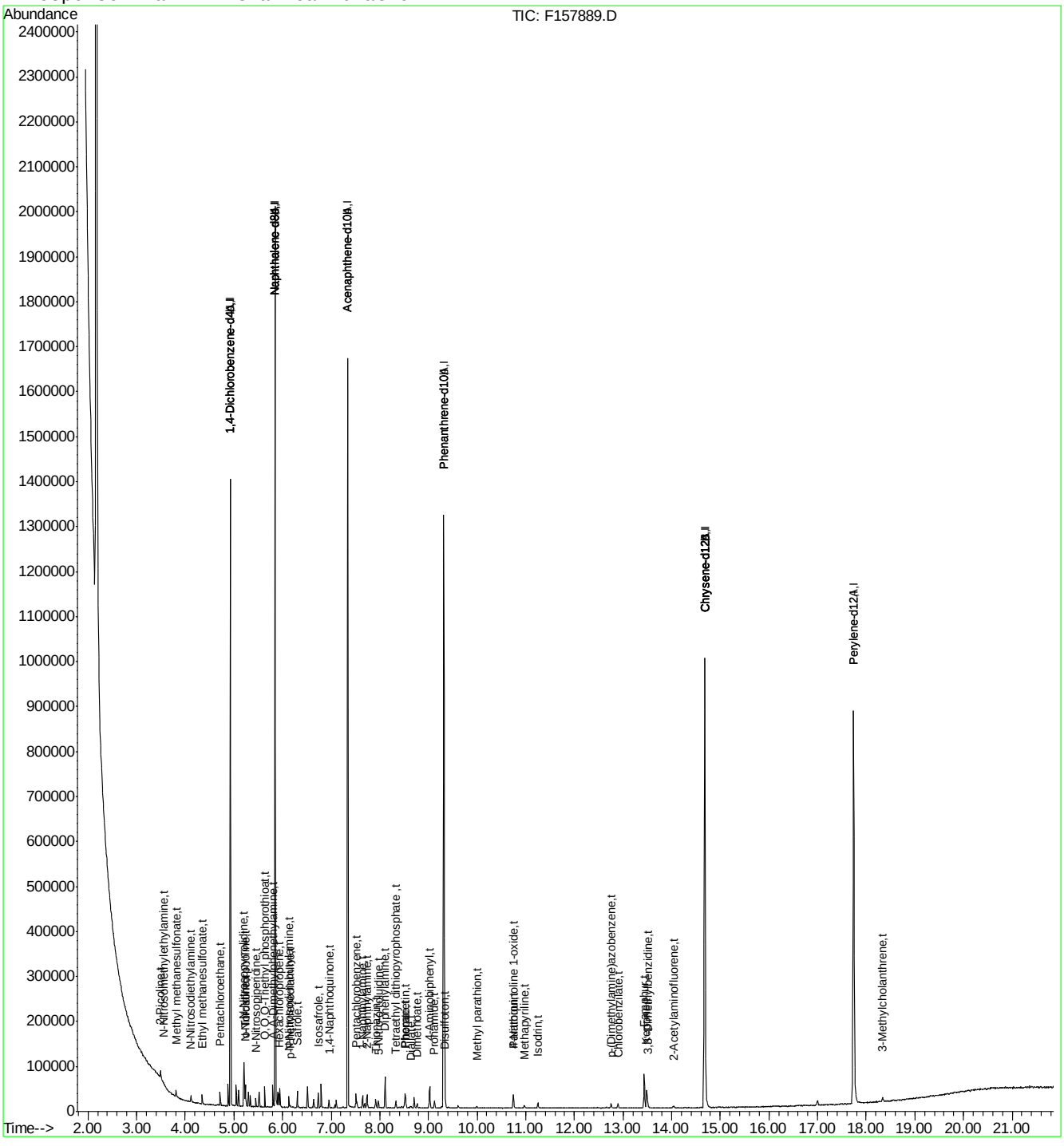
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.93	213	3228	0.99	ppm		92
117)	p-Phenylenediamine	6.15	108	2225	0.78	ppm		97
118)	N-Nitrosodi-n-butylamine	6.13	84	4719	1.11	ppm		90
119)	Safrole	6.30	162	4855	1.06	ppm		98
120)	Isosafrole	6.74	162	4071	1.03	ppm	#	1
122)	Thionazin	7.92	143	1227	0.76	ppm		78
123)	Tetraethyl dithiopyrophosp	8.33	322	1049	0.75	ppm		100
124)	Phorate	8.52	75	6669	0.86	ppm		100
125)	Phenacetin	8.53	108	3829	0.56	ppm		88
126)	1,4-Naphthoquinone	6.96	158	2778	0.76	ppm		96
128)	Pentachlorobenzene	7.51	250	4619	1.25	ppm		92
129)	1-Naphthylamine	7.65	143	8753	0.93	ppm		96
130)	2-Naphthylamine	7.74	143	11768	1.07	ppm		99
131)	5-Nitro-o-toluidine	7.97	152	2247	0.61	ppm		98
133)	Disulfoton	9.34	88	4817	0.76	ppm		95
135)	Dimethoate	8.77	87	3102	0.66	ppm		89
136)	4-Aminobiphenyl	9.02	169	10810	1.94	ppm		98
137)	Methyl parathion	9.99	125	1224	0.40	ppm		81
138)	Parathion	10.75	109	1009	0.39	ppm		88
139)	Diphenylamine	8.11	169	19680	2.32	ppm		96
140)	Isodrin	11.26	193	1760	0.99	ppm		95
141)	Diallate	8.64	86	1217	1.03	ppm		81
143)	Pronamide	9.13	173	3105	0.60	ppm		94
144)	4-Nitroquinoline 1-oxide	10.74	190	1252	0.74	ppm	#	62
145)	Methapyriline	10.97	58	3299	1.07	ppm		97
149)	p-(Dimethylamine)azobenzen	12.76	120	2766	0.49	ppm		90
150)	Kepone	13.49	272	6214	13.86	ppm		100
151)	Famphur	13.44	218	29070	14.00	ppm		96
152)	2-Acetylaminofluorene	14.04	181	2109	0.30	ppm		93
153)	3,3'-Dimethylbenzidine	13.51	212	5139	3.41	ppm		96
154)	Chlorobenzilate	12.90	251	2166	0.55	ppm		94
157)	3-Methylcholanthrene	18.34	268	3281	0.45	ppm		82

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:49 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Initial Calibration



Manual Integration Approval Summary

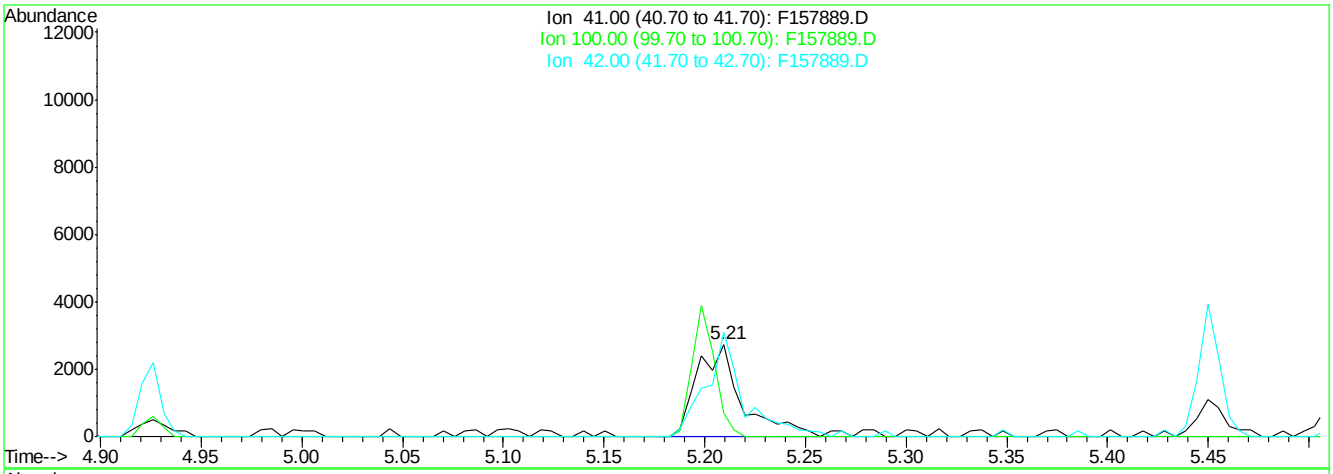
Sample Number:	EF6647-IC6647	**Method:**	SW846 8270D
Lab FileID:	F157889.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 20:25	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

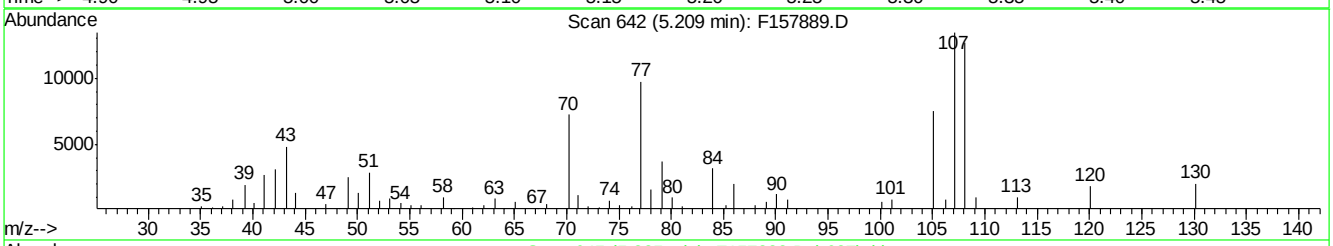
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.20	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.81	Split peak

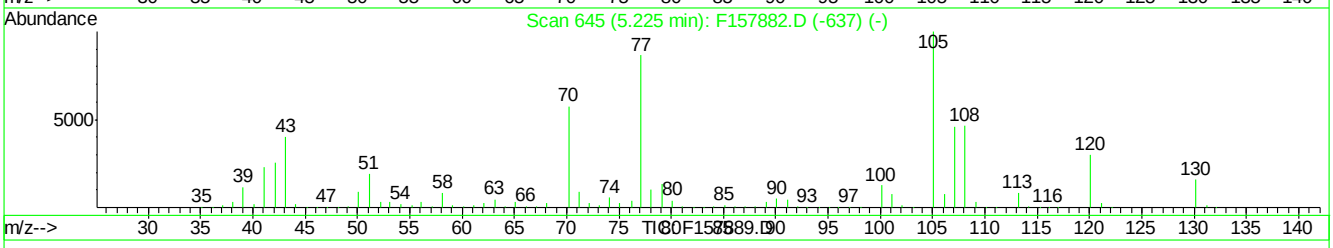
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:48 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.21min 2.85ppm

response 4234

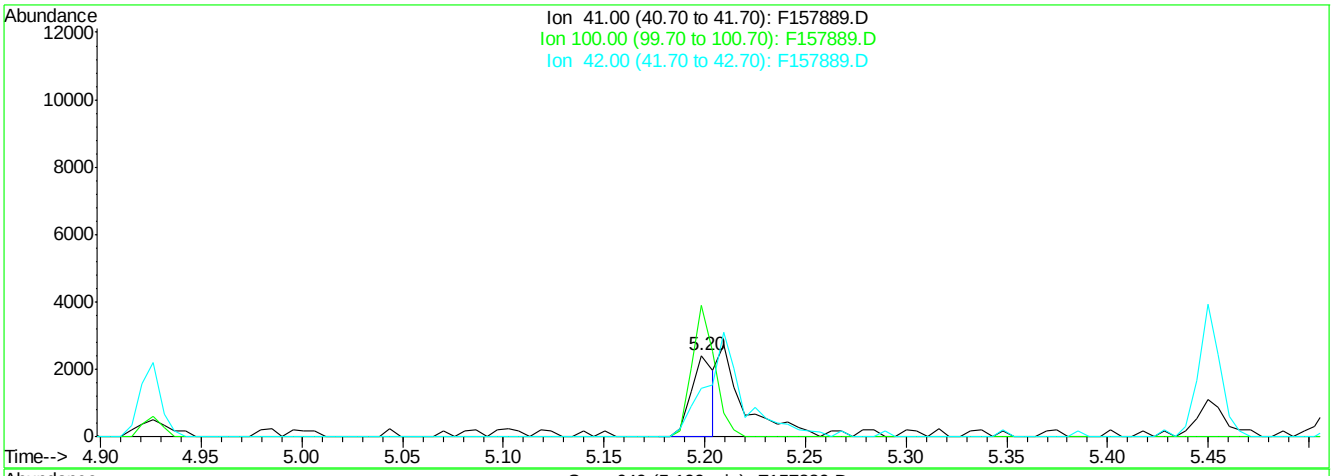
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	25.03#
42.00	93.10	110.17
0.00	0.00	0.00

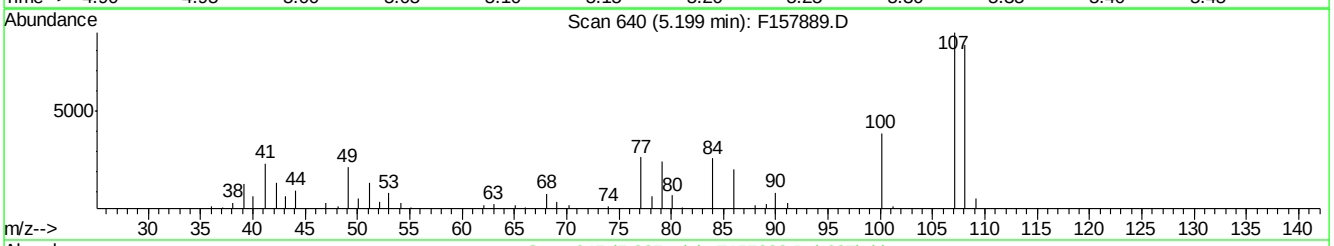
F157889.D MF6644.M Sun Jun 12 11:48:52 2016 RT1

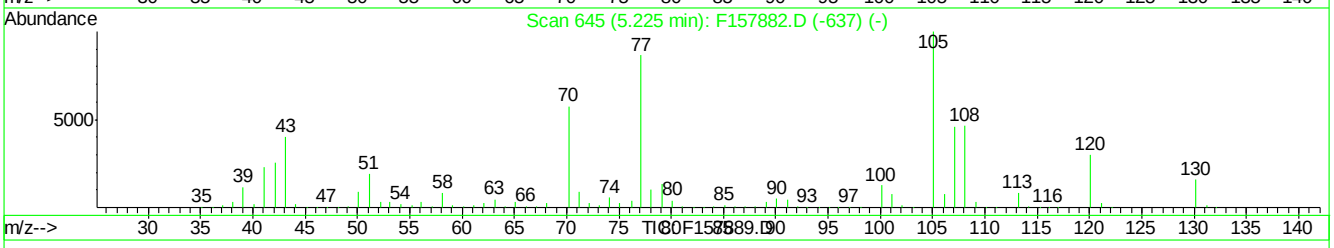
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:48 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.20min 1.29ppm m

response 1909

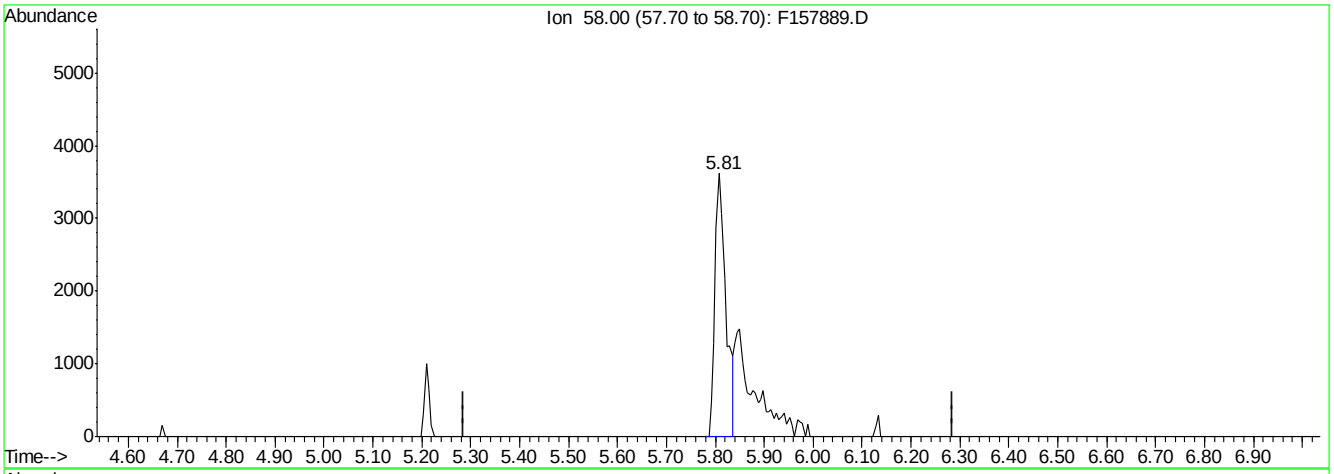
Ion	Exp%	Act%
41.00	100	100
100.00	132.60	162.89#
42.00	93.10	59.05#
0.00	0.00	0.00

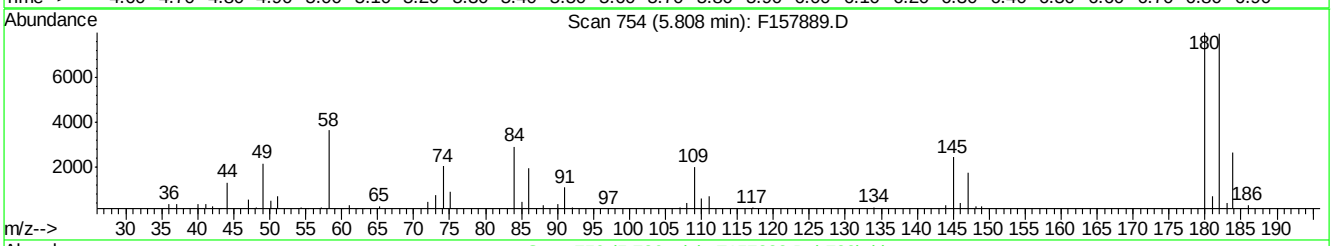
F157889.D MF6644.M Sun Jun 12 11:48:59 2016 RT1

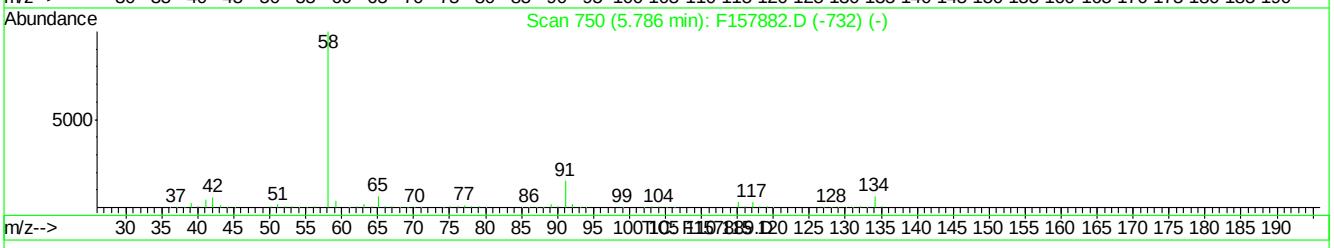
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:48 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.81min 0.45ppm

response 5471

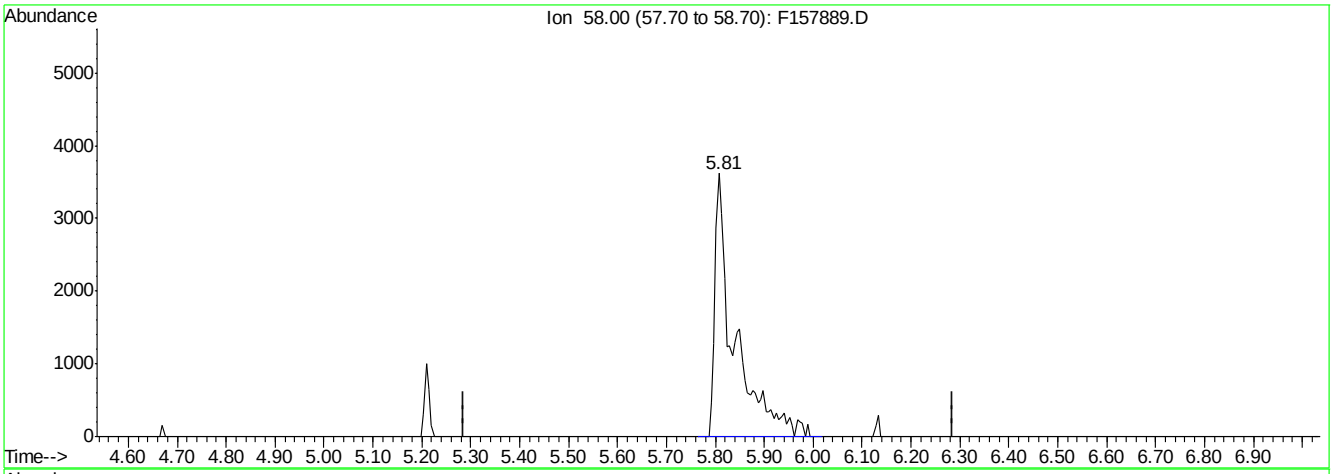
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F157889.D MF6644.M Sun Jun 12 11:49:05 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157889.D Vial: 9
Acq On : 10 Jun 2016 8:25 pm Operator: ashleyd
Sample : ic6647-1 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 11:49 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 11:23:37 2016
Response via : Multiple Level Calibration



(115) A,A-Dimethylphenethylamine (t)

5.81min 0.81ppm m

response 9904

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F157889.D MF6644.M Sun Jun 12 11:49:09 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 08:54

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157890.D Vial: 10
Acq On : 10 Jun 2016 8:54 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:17:35 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	195184	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	774563	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	443065	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	677061	40.00	ppm	-0.02
83) Chrysene-d12	14.68	240	554957	40.00	ppm	-0.03
92) Perylene-d12	17.75	264	474230	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	195184	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	774563	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	443065	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	677061	40.00	ppm	0.00
147) Chrysene-d12A	14.68	240	554957	40.00	ppm	0.00
155) Perylene-d12A	17.75	264	474230	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	195184	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	774563	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	443065	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	677061	40.00	ppm	-0.02
167) Chrysene-d12b	14.68	240	554957	40.00	ppm	-0.03
169) 1,4-Dichlorobenzene-d4c	4.93	152	195184	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	774563	40.00	ppm	-0.01
176) Chrysene-d12c	14.68	240	554957	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	774563	40.00	ppm	-0.01
180) Chrysene-d12B	14.68	240	554957	40.00	ppm	-0.04

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
103) 2-Picoline	3.48	93	388321	42.05	ppm		98
104) Pentachloroethane	4.72	167	99562	36.11	ppm		99
106) N-Nitrosodiethylamine	4.12	102	173201	44.16	ppm		98
107) N-Nitrosomethylethylamine	3.56	42	102457	45.14	ppm		97
108) Ethyl methanesulfonate	4.35	79	257781	43.00	ppm		99
109) N-Nitrosopyrrolidine	5.20	41	79820	39.91	ppm	#	20
110) N-Nitrosomorpholine	5.23	56	130193	41.63	ppm		95
113) O,O,O-Triethyl phosphoroth	5.64	198	142364	46.40	ppm		97
114) N-Nitrosopiperidine	5.45	42	130346	45.20	ppm		94
115) A,A-Dimethylphenethylamine	5.76	58	610795m	50.22	ppm		
116) Hexachloropropene	5.93	213	162063	45.25	ppm		99
117) p-Phenylenediamine	6.16	108	280208	90.60	ppm		98

(#) = qualifier out of range (m) = manual integration
F157890.D MF6644.M Sun Jun 12 12:58:28 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157890.D Vial: 10
Acq On : 10 Jun 2016 8:54 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:17:35 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
118)	N-Nitrosodi-n-butylamine	6.14	84	285738	59.29	ppm		98
119)	Safrole	6.31	162	255332	49.06	ppm		99
120)	Isosafrole	6.74	162	250467	57.76	ppm	#	73
122)	Thionazin	7.92	143	82849	51.13	ppm		98
123)	Tetraethyl dithiopyrophosp	8.33	322	75483	52.51	ppm		100
124)	Phorate	8.53	75	427333	49.94	ppm		100
125)	Phenacetin	8.55	108	338627	51.99	ppm		99
126)	1,4-Naphthoquinone	6.96	158	209990	52.72	ppm		99
128)	Pentachlorobenzene	7.51	250	200395	45.38	ppm		98
131)	5-Nitro-o-toluidine	7.98	152	143830	39.64	ppm		86
133)	Disulfoton	9.35	88	390715	55.64	ppm		99
135)	Dimethoate	8.78	87	244416	47.80	ppm		100
136)	4-Aminobiphenyl	9.03	169	310478	47.67	ppm		98
137)	Methyl parathion	10.00	125	139755	44.34	ppm		95
138)	Parathion	10.75	109	138096	52.84	ppm		99
139)	Diphenylamine	8.12	169	577428	55.00	ppm		99
140)	Isodrin	11.26	193	104649	51.36	ppm		98
141)	Diallate	8.64	86	53410	48.36	ppm		98
142)	Pentachloronitrobenzene	9.03	295	26137	47.92	ppm		99
143)	Pronamide	9.14	173	277408	53.19	ppm		99
144)	4-Nitroquinoline 1-oxide	10.76	190	55698	43.24	ppm		94
145)	Methapyriline	10.97	58	204955	46.49	ppm		99
148)	Aramite	12.66	185	54954	108.37	ppm		96
149)	p-(Dimethylamine)azobenzen	12.76	120	322201	55.23	ppm		100
152)	2-Acetylaminofluorene	14.06	181	357616	54.11	ppm		97
154)	Chlorobenzilate	12.90	251	220410	56.88	ppm		97
157)	3-Methylcholanthrene	18.35	268	335508	51.05	ppm		98

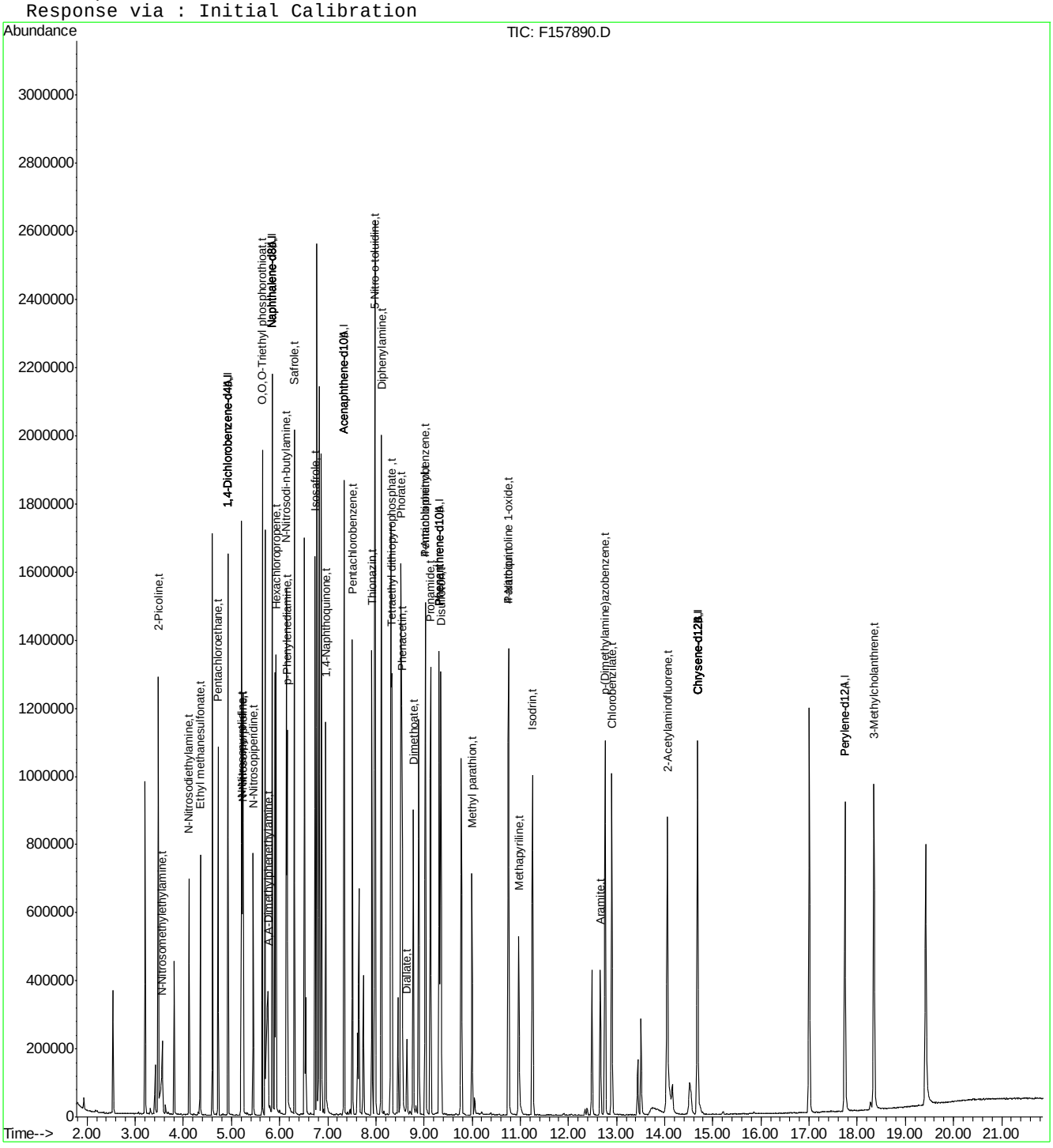
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157890.D Vial: 10
Acq On : 10 Jun 2016 8:54 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:23 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

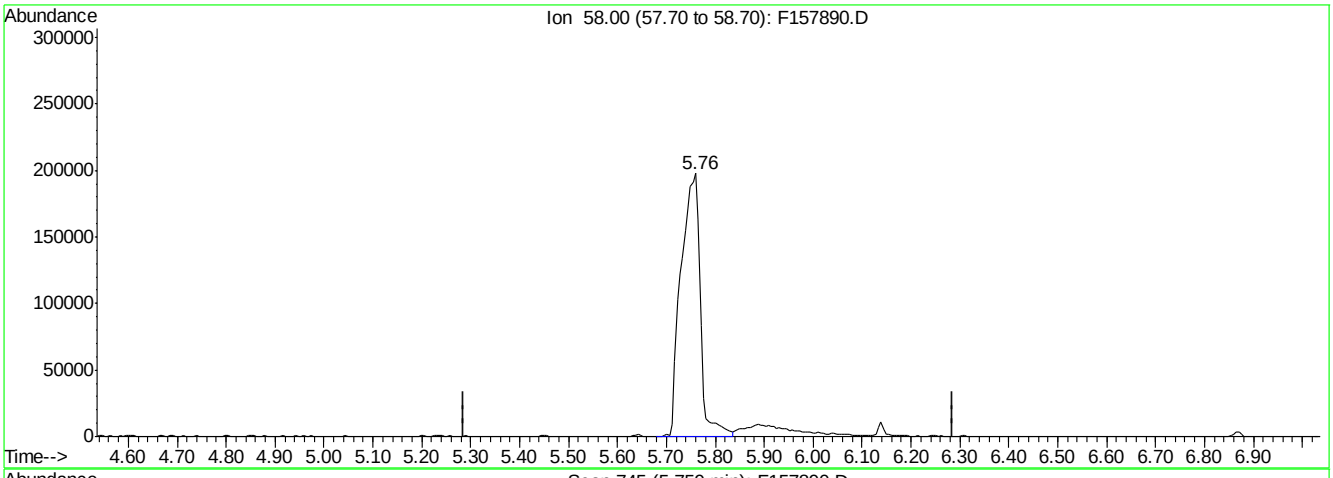
Sample Number:	EF6647-ICV6647	**Method:**	SW846 8270D
Lab FileID:	F157890.D	**Analyst approved:**	06/12/16 12:56 Kristi Schollenberger
Injection Time:	06/10/16 20:54	**Supervisor approved:**	06/13/16 08:54 Nina Pandya

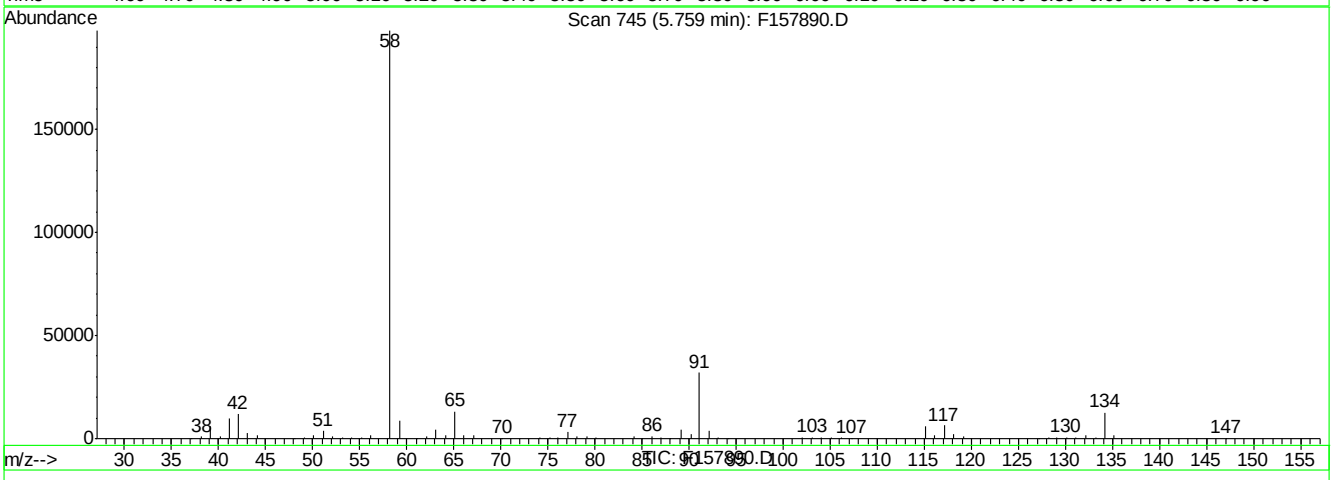
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.76	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157890.D Vial: 10
Acq On : 10 Jun 2016 8:54 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 44.57ppm

response 542097

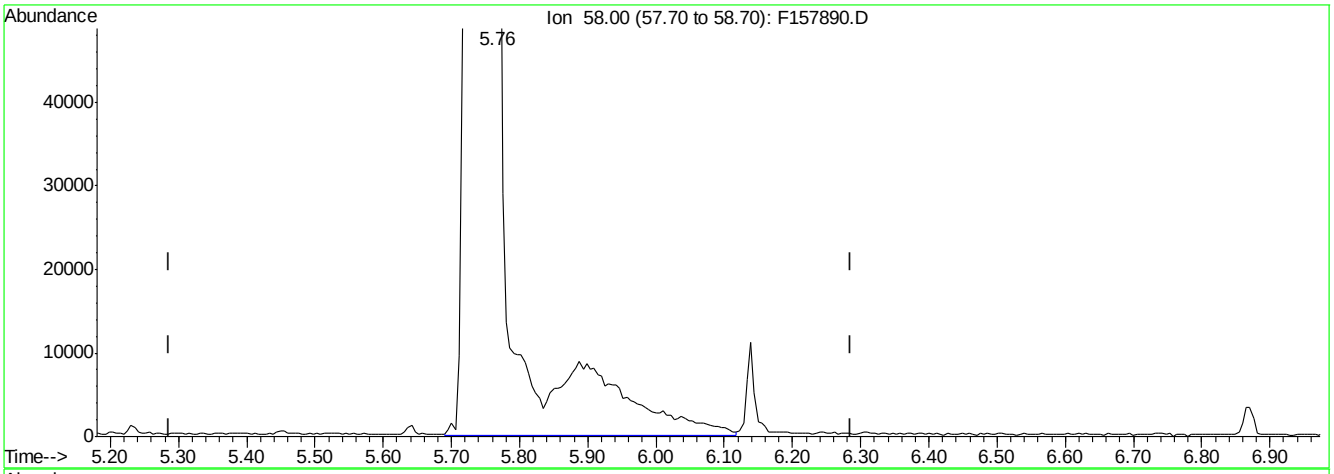
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

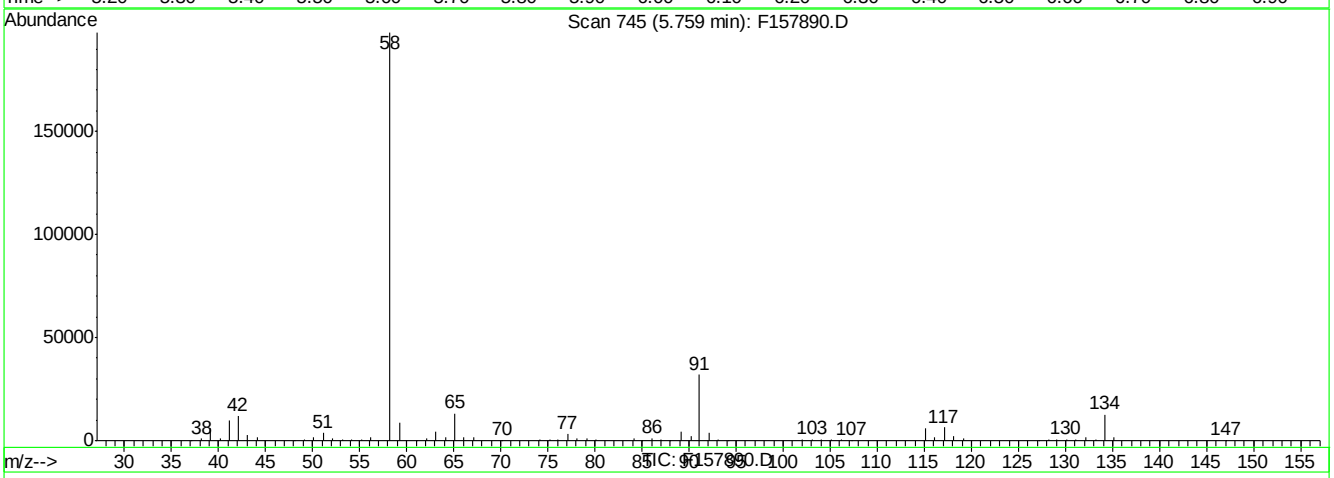
F157890.D MF6644.M Sun Jun 12 12:18:23 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157890.D Vial: 10
Acq On : 10 Jun 2016 8:54 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:18 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 50.22ppm m

response 610795

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F157890.D MF6644.M Sun Jun 12 12:18:31 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157891.D Vial: 11
Acq On : 10 Jun 2016 9:23 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:25:21 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.93	152	189279	40.00	ppm	-0.01
24) Naphthalene-d8	5.85	136	759112	40.00	ppm	-0.01
47) Acenaphthene-d10	7.34	164	427907	40.00	ppm	-0.02
69) Phenanthrene-d10	9.32	188	662577	40.00	ppm	-0.02
83) Chrysene-d12	14.68	240	551938	40.00	ppm	-0.03
92) Perylene-d12	17.74	264	489968	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4A	4.93	152	189279	40.00	ppm	0.00
112) Naphthalene-d8A	5.85	136	759112	40.00	ppm	0.00
121) Acenaphthene-d10A	7.34	164	427907	40.00	ppm	0.00
132) Phenanthrene-d10A	9.32	188	662577	40.00	ppm	0.00
147) Chrysene-d12A	14.68	240	551938	40.00	ppm	0.00
155) Perylene-d12A	17.74	264	489968	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.93	152	189279	40.00	ppm	-0.01
161) Naphthalene-d8b	5.85	136	759112	40.00	ppm	-0.01
163) Acenaphthene-d10b	7.34	164	427907	40.00	ppm	-0.02
165) Phenanthrene-d10b	9.32	188	662577	40.00	ppm	-0.02
167) Chrysene-d12b	14.68	240	551938	40.00	ppm	-0.03
169) 1,4-Dichlorobenzene-d4c	4.93	152	189279	40.00	ppm	-0.01
171) Naphthalene-d8c	5.85	136	759112	40.00	ppm	-0.01
176) Chrysene-d12c	14.68	240	551938	40.00	ppm	-0.03
178) Naphthalene-d8d	5.85	136	759112	40.00	ppm	-0.01
180) Chrysene-d12B	14.68	240	551938	40.00	ppm	-0.04

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds							Qvalue
105) Methyl methanesulfonate	3.81	80	179840	43.74	ppm		99
111) o-Toluidine	5.24	106	526879	43.83	ppm		59
129) 1-Naphthylamine	7.65	143	631304	62.43	ppm		98
130) 2-Naphthylamine	7.74	143	636547	51.97	ppm		99
146) sym-Trinitrobenzene	8.46	213	44056	37.33	ppm	#	83
150) Kepone	13.49	272	46800	48.07	ppm		90
151) Famphur	13.45	218	234517	49.05	ppm		95
153) 3,3'-Dimethylbenzidine	13.52	212	448510	89.37	ppm		99

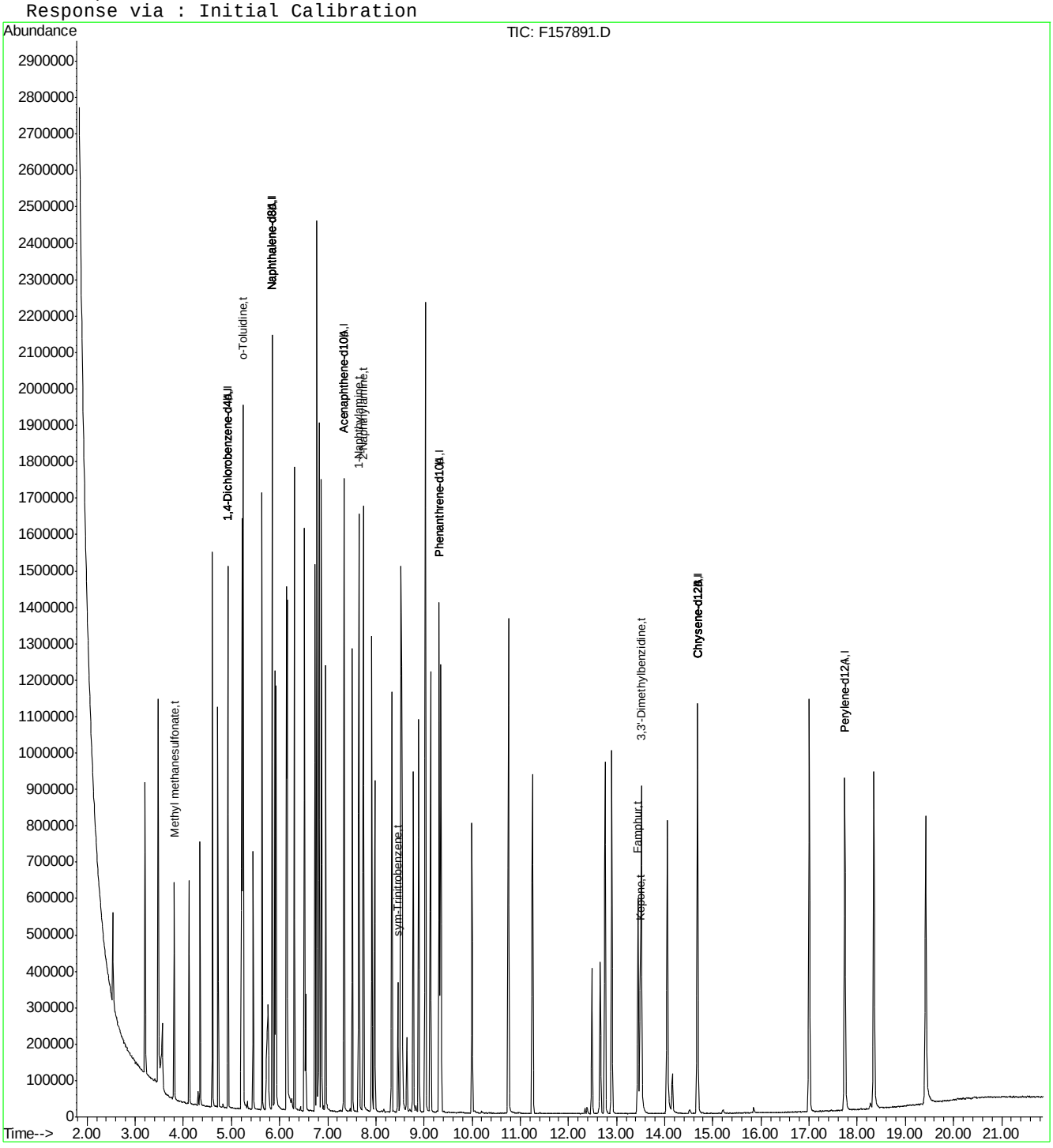
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6647\F157891.D Vial: 11
Acq On : 10 Jun 2016 9:23 pm Operator: ashleyd
Sample : icv6647-50 Inst : MSF
Misc : op93756,ef6647 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 12 12:27 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jun 12 12:17:27 2016
Response via : Initial Calibration



F157891.D MF6644.M Sun Jun 12 12:27:25 2016 RT1 Page 2

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158097.D Vial: 2
Acq On : 20 Jun 2016 7:47 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 08:10:42 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.78	152	190022	40.00	ppm	0.00
24) Naphthalene-d8	5.71	136	801609	40.00	ppm	0.00
47) Acenaphthene-d10	7.16	164	485527	40.00	ppm	0.00
69) Phenanthrene-d10	9.08	188	745293	40.00	ppm	0.00
83) Chrysene-d12	14.38	240	659687	40.00	ppm	0.00
92) Perylene-d12	17.43	264	607152	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.78	152	190022	40.00	ppm	0.00
104) Naphthalene-d8b	5.71	136	801609	40.00	ppm	0.00
106) Acenaphthene-d10b	7.16	164	485527	40.00	ppm	0.00
108) Phenanthrene-d10b	9.08	188	745293	40.00	ppm	0.00
110) Chrysene-d12b	14.38	240	659687	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.79	112	189502	26.78	ppm	-0.10
Spiked Amount 50.000			Recovery = 53.56%			
8) Phenol-d5	4.51	99	234412	25.59	ppm	0.00
Spiked Amount 50.000			Recovery = 51.18%			
25) Nitrobenzene-d5	5.19	82	196884	24.55	ppm	-0.02
Spiked Amount 50.000			Recovery = 49.10%			
51) 2-Fluorobiphenyl	6.53	172	378667	24.79	ppm	0.00
Spiked Amount 50.000			Recovery = 49.58%			
73) 2,4,6-Tribromophenol	8.07	330	39481	29.32	ppm	0.00
Spiked Amount 50.000			Recovery = 58.64%			
85) Terphenyl-d14	12.16	244	342587	26.07	ppm	-0.02
Spiked Amount 50.000			Recovery = 52.14%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.36	88	79934	22.92	ppm		92
3) Pyridine	2.69	79	203729	23.80	ppm		96
4) N-Nitrosodimethylamine	2.64	42	51299	23.86	ppm		97
6) Indene	4.97	116	339783	25.56	ppm		99
7) Cumene	4.19	105	458265	25.31	ppm		98
9) Phenol	4.51	94	283026	27.37	ppm		98
10) Aniline	4.54	93	285630	22.82	ppm		76
11) bis(2-Chloroethyl)ether	4.59	93	183685	24.11	ppm		92
12) 2-Chlorophenol	4.63	128	198254	26.26	ppm		96
13) Decane	4.66	43	112104	19.07	ppm		90
14) 1,3-Dichlorobenzene	4.74	146	209526	25.29	ppm		99
15) 1,4-Dichlorobenzene	4.80	146	213765	25.37	ppm		99
16) Benzyl alcohol	4.88	108	128565	25.96	ppm		98
17) 1,2-Dichlorobenzene	4.91	146	200895	25.45	ppm		98
18) Acetophenone	5.08	105	267309	25.08	ppm	#	69
19) 2-Methylphenol	4.96	108	182263	25.52	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.98	121	63730	25.27	ppm	#	70
21) 3&4-Methylphenol	5.08	108	191702	25.50	ppm		98
22) n-Nitroso-di-n-propylamine	5.08	70	121357	21.59	ppm		97
23) Hexachloroethane	5.16	201	62127	27.48	ppm		96
26) Nitrobenzene	5.20	77	205102	23.32	ppm		92
27) Quinoline	5.97	129	409902	25.99	ppm		98
28) Isophorone	5.37	82	356571	24.14	ppm		99

(#) = qualifier out of range (m) = manual integration
F158097.D MF6644.M Mon Jun 20 11:28:15 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158097.D Vial: 2
Acq On : 20 Jun 2016 7:47 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 08:10:42 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2-Nitrophenol	5.43	139	104727	30.26 ppm	92
30) 2,4-Dimethylphenol	5.46	107	192550	25.71 ppm	99
31) Benzoic acid	5.53	105	154582	29.60 ppm	97
32) bis(2-Chloroethoxy)methane	5.53	93	221917	23.81 ppm	99
33) 2,4-Dichlorophenol	5.60	162	153081	27.51 ppm	97
34) 2,6-Dichlorophenol	5.77	162	150520	27.12 ppm	98
35) 1,3,5-Trichlorobenzene	5.44	180	163071	25.28 ppm	99
36) 1,2,4-Trichlorobenzene	5.67	180	157774	25.46 ppm	99
37) 1,2,3-Trichlorobenzene	5.83	180	161623	26.23 ppm	98
38) Naphthalene	5.73	128	589664	25.34 ppm	99
39) 4-Chloroaniline	5.76	127	235027	24.86 ppm	94
40) 2,3-Dichloroaniline	6.46	161	187513	26.39 ppm	98
41) Caprolactam	6.02	55	60418	23.48 ppm	90
42) Hexachlorobutadiene	5.81	225	75050	27.05 ppm	100
43) 4-Chloro-3-methylphenol	6.11	107	180429	28.23 ppm	99
44) 2-Methylnaphthalene	6.23	141	323186	26.25 ppm	98
45) 1-Methylnaphthalene	6.32	141	334854	25.75 ppm	99
46) Dimethylnaphthalene	6.75	156	339135	26.64 ppm	98
48) Hexachlorocyclopentadiene	6.36	237	185976	62.21 ppm	99
49) 2,4,6-Trichlorophenol	6.46	196	101209	28.31 ppm	98
50) 2,4,5-Trichlorophenol	6.49	196	108836	26.83 ppm	98
52) 2-Chloronaphthalene	6.64	162	353420	24.93 ppm	98
53) Biphenyl	6.61	154	462836	24.77 ppm	99
54) 2-Nitroaniline	6.72	65	97367	24.48 ppm	85
55) Dimethylphthalate	6.88	163	397477	25.69 ppm	99
56) Acenaphthylene	7.02	152	582958	25.64 ppm	99
57) 2,6-Dinitrotoluene	6.95	165	90645	29.60 ppm	93
58) 3-Nitroaniline	7.11	138	110104	28.01 ppm	91
59) Acenaphthene	7.19	153	359662	24.62 ppm	96
60) 2,4-Dinitrophenol	7.21	184	92816	56.12 ppm	80
61) 4-Nitrophenol	7.27	109	57987	30.03 ppm	86
62) Dibenzofuran	7.37	168	480688	24.38 ppm	96
63) 2,4-Dinitrotoluene	7.35	165	127068	30.47 ppm	93
64) 2,3,4,6-Tetrachlorophenol	7.51	232	82726	30.25 ppm	99
65) Diethylphthalate	7.63	149	391352	26.42 ppm	99
66) Fluorene	7.77	166	393224	25.61 ppm	99
67) 4-Chlorophenyl-phenylether	7.77	204	164094	25.79 ppm	99
68) 4-Nitroaniline	7.79	138	115314	28.27 ppm	96
70) 4,6-Dinitro-2-methylphenol	7.82	198	67730	27.32 ppm	93
71) n-Nitrosodiphenylamine	7.91	169	265222	25.79 ppm	97
72) 1,2-Diphenylhydrazine	7.97	77	413200	22.72 ppm	99
74) 4-Bromophenyl-phenylether	8.41	248	90081	27.23 ppm	96
75) Hexachlorobenzene	8.49	284	90535	25.85 ppm	96
76) Pentachlorophenol	8.78	266	125818	62.89 ppm	99
77) Phenanthrene	9.12	178	560309	24.60 ppm	100
78) Anthracene	9.20	178	569047	25.78 ppm	100
79) Carbazole	9.48	167	539947	26.13 ppm	98
80) Di-n-butylphthalate	10.19	149	670102	29.16 ppm	99
81) Fluoranthene	11.28	202	547321	27.06 ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158097.D Vial: 2
Acq On : 20 Jun 2016 7:47 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 08:10:42 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

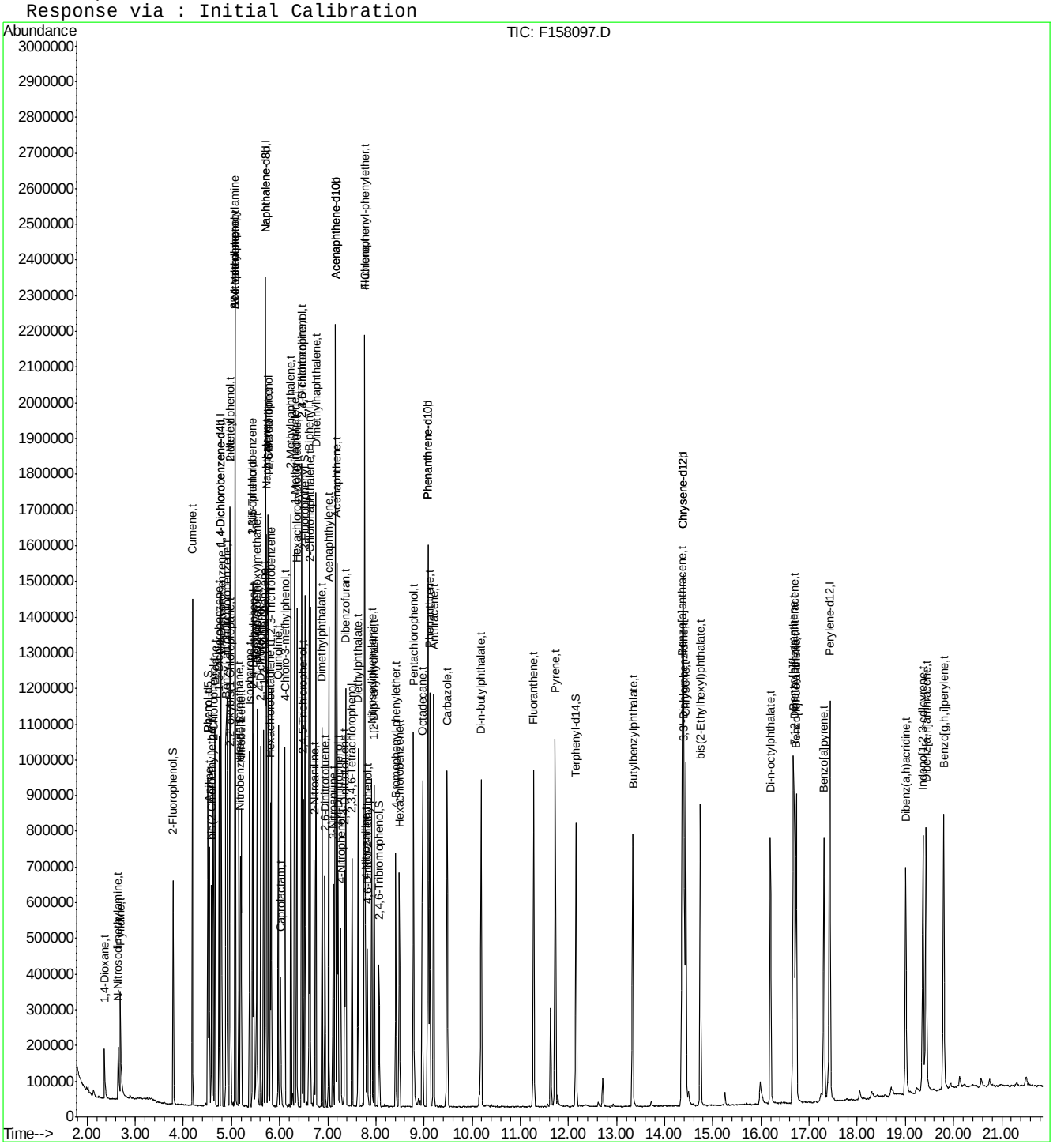
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Octadecane	8.96	57	190603	22.81 ppm	97
84)	Pyrene	11.73	202	580953	24.98 ppm	96
86)	Butylbenzylphthalate	13.34	149	292129	28.58 ppm	93
88)	Benzo[a]anthracene	14.36	228	504438	26.25 ppm	99
89)	3,3'-Dichlorobenzidine	14.40	252	183986	28.34 ppm	99
90)	Chrysene	14.44	228	508908	24.72 ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.74	149	401734	25.73 ppm	100
93)	Di-n-octylphthalate	16.20	149	692901	27.21 ppm	98
94)	Benzo[b]fluoranthene	16.67	252	517353	27.76 ppm	99
95)	Benzo[k]fluoranthene	16.73	252	492807	26.20 ppm	98
96)	Benzo[a]pyrene	17.31	252	461410	28.85 ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.37	276	424402	28.95 ppm	95
98)	Dibenz(a,h)acridine	19.01	279	375914	29.50 ppm	100
99)	Dibenz[a,h]anthracene	19.43	278	421451	27.98 ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.70	256	234846	28.55 ppm	99
101)	Benzo[g,h,i]perylene	19.80	276	466225	27.79 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158097.D MF6644.M Mon Jun 20 11:28:15 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158097.D Vial: 2
Acq On : 20 Jun 2016 7:47 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 11:28 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 10:53:23 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158098.D Vial: 3
Acq On : 20 Jun 2016 8:16 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 08:38:05 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 08:10:40 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.78	152	194943	40.00	ppm	0.00
24) Naphthalene-d8	5.71	136	803243	40.00	ppm	0.00
47) Acenaphthene-d10	7.16	164	474514	40.00	ppm	0.00
69) Phenanthrene-d10	9.08	188	762291	40.00	ppm	0.00
83) Chrysene-d12	14.38	240	654268	40.00	ppm	0.00
92) Perylene-d12	17.43	264	604028	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.78	152	194943	40.00	ppm	0.00
104) Naphthalene-d8b	5.71	136	803243	40.00	ppm	0.00
106) Acenaphthene-d10b	7.16	164	474514	40.00	ppm	0.00
108) Phenanthrene-d10b	9.08	188	762291	40.00	ppm	0.00
110) Chrysene-d12b	14.38	240	654268	40.00	ppm	0.00

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	4.46	105	140113	26.21	ppm	91
105) Hydroquinone	5.98	110	201085	33.08	ppm	96
107) 1,2,4,5-Tetrachlorobenzene	6.36	216	131236	26.36	ppm	98
109) Atrazine	8.67	200	90406	31.57	ppm	98
111) Benzidine	11.63	184	243448	32.84	ppm	99

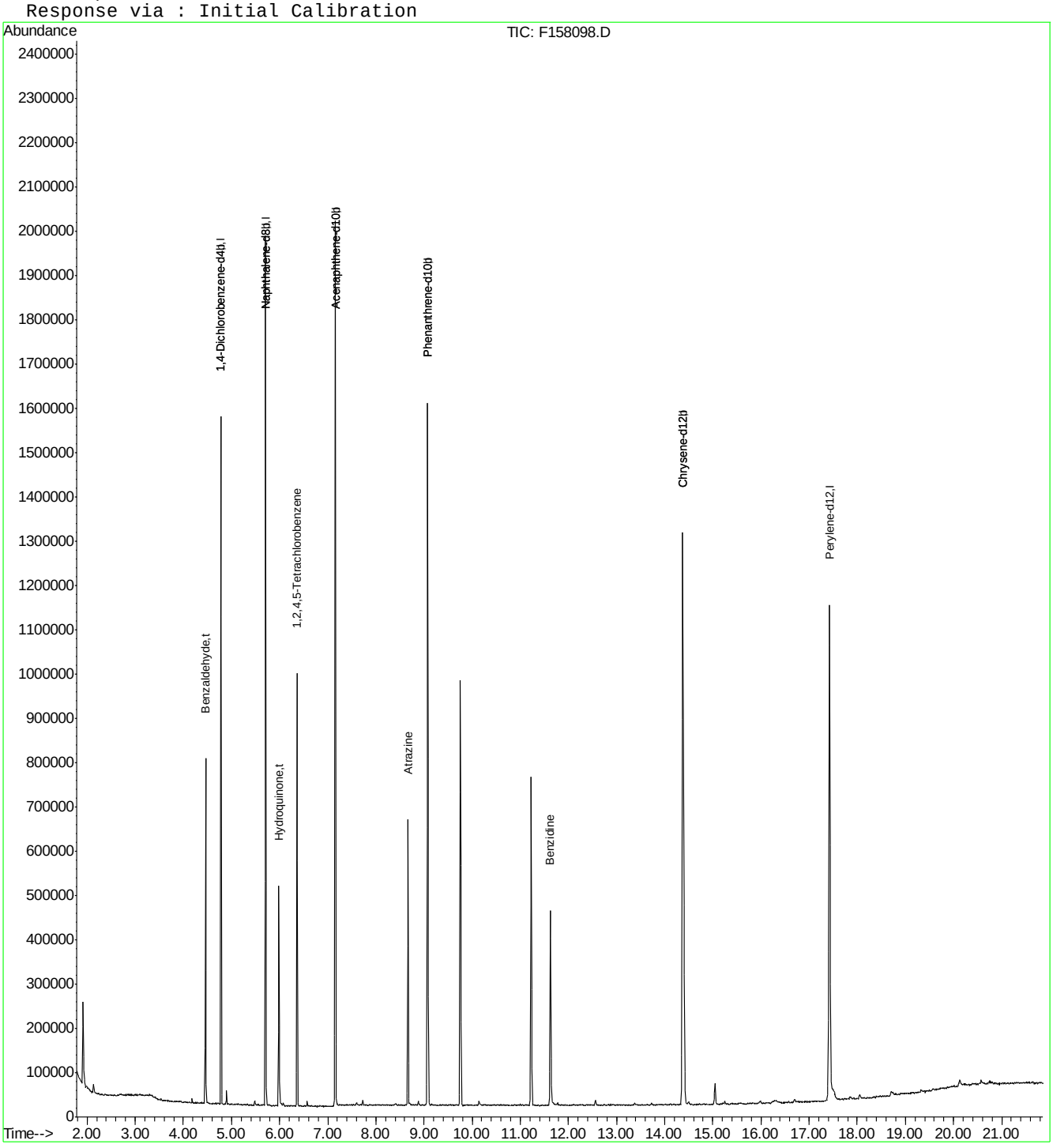
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6657\F158098.D Vial: 3
Acq On : 20 Jun 2016 8:16 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6657,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 20 11:30 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 20 10:53:23 2016
Response via : Initial Calibration



F158098.D MF6644.M Mon Jun 20 11:30:23 2016 RT1 Page 2

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158152.D Vial: 2
Acq On : 21 Jun 2016 11:50 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 14:36:24 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 14:36:23 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	196631	40.00	ppm	-0.02
24) Naphthalene-d8	5.69	136	787247	40.00	ppm	-0.02
47) Acenaphthene-d10	7.13	164	441372	40.00	ppm	-0.03
69) Phenanthrene-d10	9.04	188	667373	40.00	ppm	-0.04
83) Chrysene-d12	14.33	240	581353	40.00	ppm	-0.05
92) Perylene-d12	17.37	264	531607	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.76	152	196631	40.00	ppm	-0.02
104) Naphthalene-d8b	5.69	136	787247	40.00	ppm	-0.02
106) Acenaphthene-d10b	7.13	164	441372	40.00	ppm	-0.03
108) Phenanthrene-d10b	9.04	188	667373	40.00	ppm	-0.04
110) Chrysene-d12b	14.33	240	581353	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.77	112	190361	26.00	ppm	-0.12
Spiked Amount 50.000			Recovery = 52.00%			
8) Phenol-d5	4.49	99	230127	24.28	ppm	-0.01
Spiked Amount 50.000			Recovery = 48.56%			
25) Nitrobenzene-d5	5.17	82	190689	24.21	ppm	-0.04
Spiked Amount 50.000			Recovery = 48.42%			
51) 2-Fluorobiphenyl	6.50	172	354431	25.52	ppm	-0.02
Spiked Amount 50.000			Recovery = 51.04%			
73) 2,4,6-Tribromophenol	8.03	330	33705	27.95	ppm	-0.04
Spiked Amount 50.000			Recovery = 55.90%			
85) Terphenyl-d14	12.11	244	298224	25.75	ppm	-0.08
Spiked Amount 50.000			Recovery = 51.50%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.34	88	92344	25.58	ppm	90
3) Pyridine	2.67	79	212524	24.00	ppm	93
4) N-Nitrosodimethylamine	2.62	42	49464	22.23	ppm	93
6) Indene	4.95	116	333513	24.24	ppm	98
7) Cumene	4.17	105	462531	24.69	ppm	97
9) Phenol	4.50	94	273746	25.59	ppm	99
10) Aniline	4.52	93	260643	20.13	ppm	75
11) bis(2-Chloroethyl)ether	4.57	93	177853	22.56	ppm	92
12) 2-Chlorophenol	4.61	128	197153	25.24	ppm	97
13) Decane	4.64	43	109685	18.03	ppm	88
14) 1,3-Dichlorobenzene	4.72	146	212130	24.75	ppm	80
15) 1,4-Dichlorobenzene	4.78	146	219878	25.22	ppm	96
16) Benzyl alcohol	4.86	108	124376	24.27	ppm	98
17) 1,2-Dichlorobenzene	4.88	146	205832	25.20	ppm	99
18) Acetophenone	5.05	105	259216	23.50	ppm	84
19) 2-Methylphenol	4.95	108	178368	24.14	ppm	99
20) 2,2'-oxybis(1-Chloropropan	4.96	121	63574	24.36	ppm #	69
21) 3&4-Methylphenol	5.05	108	187063	24.05	ppm	99
22) n-Nitroso-di-n-propylamine	5.05	70	120018	20.64	ppm	95
23) Hexachloroethane	5.13	201	60924	26.04	ppm	96
26) Nitrobenzene	5.18	77	198831	23.02	ppm	89
27) Quinoline	5.95	129	384177	24.81	ppm	98
28) Isophorone	5.35	82	338226	23.32	ppm	100

(#) = qualifier out of range (m) = manual integration
F158152.D MF6644.M Tue Jun 21 14:40:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158152.D Vial: 2
Acq On : 21 Jun 2016 11:50 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 14:36:24 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 14:36:23 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2-Nitrophenol	5.41	139	102148	30.06 ppm	89
30) 2,4-Dimethylphenol	5.44	107	182922	24.87 ppm	94
31) Benzoic acid	5.51	105	137851	26.88 ppm	94
32) bis(2-Chloroethoxy)methane	5.51	93	210490	22.99 ppm	98
33) 2,4-Dichlorophenol	5.59	162	149971	27.44 ppm	97
34) 2,6-Dichlorophenol	5.75	162	144821	26.57 ppm	96
35) 1,3,5-Trichlorobenzene	5.42	180	163685	25.84 ppm	99
36) 1,2,4-Trichlorobenzene	5.65	180	155737	25.59 ppm	99
37) 1,2,3-Trichlorobenzene	5.81	180	154924	25.60 ppm	99
38) Naphthalene	5.71	128	559576	24.49 ppm	99
39) 4-Chloroaniline	5.74	127	220133	23.71 ppm	94
40) 2,3-Dichloroaniline	6.43	161	182086	26.09 ppm	98
41) Caprolactam	5.99	55	55412	21.93 ppm	87
42) Hexachlorobutadiene	5.79	225	73453	26.96 ppm	98
43) 4-Chloro-3-methylphenol	6.09	107	163119	25.99 ppm	99
44) 2-Methylnaphthalene	6.21	141	304048	25.14 ppm	98
45) 1-Methylnaphthalene	6.29	141	316838	24.81 ppm	99
46) Dimethylnaphthalene	6.73	156	313722	25.09 ppm	99
48) Hexachlorocyclopentadiene	6.33	237	173156	63.72 ppm	97
49) 2,4,6-Trichlorophenol	6.43	196	94609	29.12 ppm	98
50) 2,4,5-Trichlorophenol	6.46	196	102507	27.80 ppm	100
52) 2-Chloronaphthalene	6.61	162	328938	25.53 ppm	97
53) Biphenyl	6.59	154	430138	25.32 ppm	99
54) 2-Nitroaniline	6.69	65	86743	23.99 ppm	83
55) Dimethylphthalate	6.85	163	361146	25.68 ppm	100
56) Acenaphthylene	6.99	152	534665	25.87 ppm	100
57) 2,6-Dinitrotoluene	6.91	165	82519	29.64 ppm	98
58) 3-Nitroaniline	7.08	138	96971	27.14 ppm	94
59) Acenaphthene	7.16	153	329696	24.83 ppm	96
60) 2,4-Dinitrophenol	7.19	184	83742	55.75 ppm	74
61) 4-Nitrophenol	7.25	109	50578	28.81 ppm	85
62) Dibenzofuran	7.34	168	441776	24.64 ppm	98
63) 2,4-Dinitrotoluene	7.32	165	114153	30.11 ppm	89
64) 2,3,4,6-Tetrachlorophenol	7.47	232	72227	29.05 ppm	97
65) Diethylphthalate	7.60	149	348654	25.89 ppm	97
66) Fluorene	7.73	166	358345	25.67 ppm	100
67) 4-Chlorophenyl-phenylether	7.73	204	149625	25.87 ppm	99
68) 4-Nitroaniline	7.76	138	101973	27.50 ppm	96
70) 4,6-Dinitro-2-methylphenol	7.79	198	60073	27.08 ppm	97
71) n-Nitrosodiphenylamine	7.87	169	239668	26.03 ppm	98
72) 1,2-Diphenylhydrazine	7.93	77	367251	22.55 ppm	98
74) 4-Bromophenyl-phenylether	8.38	248	78213	26.40 ppm	96
75) Hexachlorobenzene	8.45	284	79776	25.44 ppm	99
76) Pentachlorophenol	8.75	266	108590	60.62 ppm	97
77) Phenanthrene	9.08	178	501460	24.59 ppm	100
78) Anthracene	9.16	178	501903	25.39 ppm	100
79) Carbazole	9.44	167	470629	25.43 ppm	99
80) Di-n-butylphthalate	10.14	149	575613	27.97 ppm	100
81) Fluoranthene	11.23	202	481444	26.58 ppm	97

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158152.D Vial: 2
Acq On : 21 Jun 2016 11:50 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 14:36:24 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 14:36:23 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.92	57	164509	21.98	ppm	97
84)	Pyrene	11.68	202	504319	24.61	ppm	95
86)	Butylbenzylphthalate	13.29	149	242894	26.97	ppm	95
88)	Benzo[a]anthracene	14.31	228	434142	25.64	ppm	100
89)	3,3'-Dichlorobenzidine	14.36	252	159387	27.86	ppm	96
90)	Chrysene	14.38	228	444938	24.52	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.69	149	327423	23.89	ppm	100
93)	Di-n-octylphthalate	16.14	149	536026	24.23	ppm	100
94)	Benzo[b]fluoranthene	16.61	252	445884	27.33	ppm	98
95)	Benzo[k]fluoranthene	16.68	252	442345	26.86	ppm	98
96)	Benzo[a]pyrene	17.26	252	390020	27.85	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.31	276	368197	28.68	ppm	95
98)	Dibenz(a,h)acridine	18.95	279	321733	28.84	ppm	99
99)	Dibenz[a,h]anthracene	19.38	278	373345	28.31	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.64	256	204650	28.42	ppm	99
101)	Benzo[g,h,i]perylene	19.74	276	404961	27.56	ppm	95

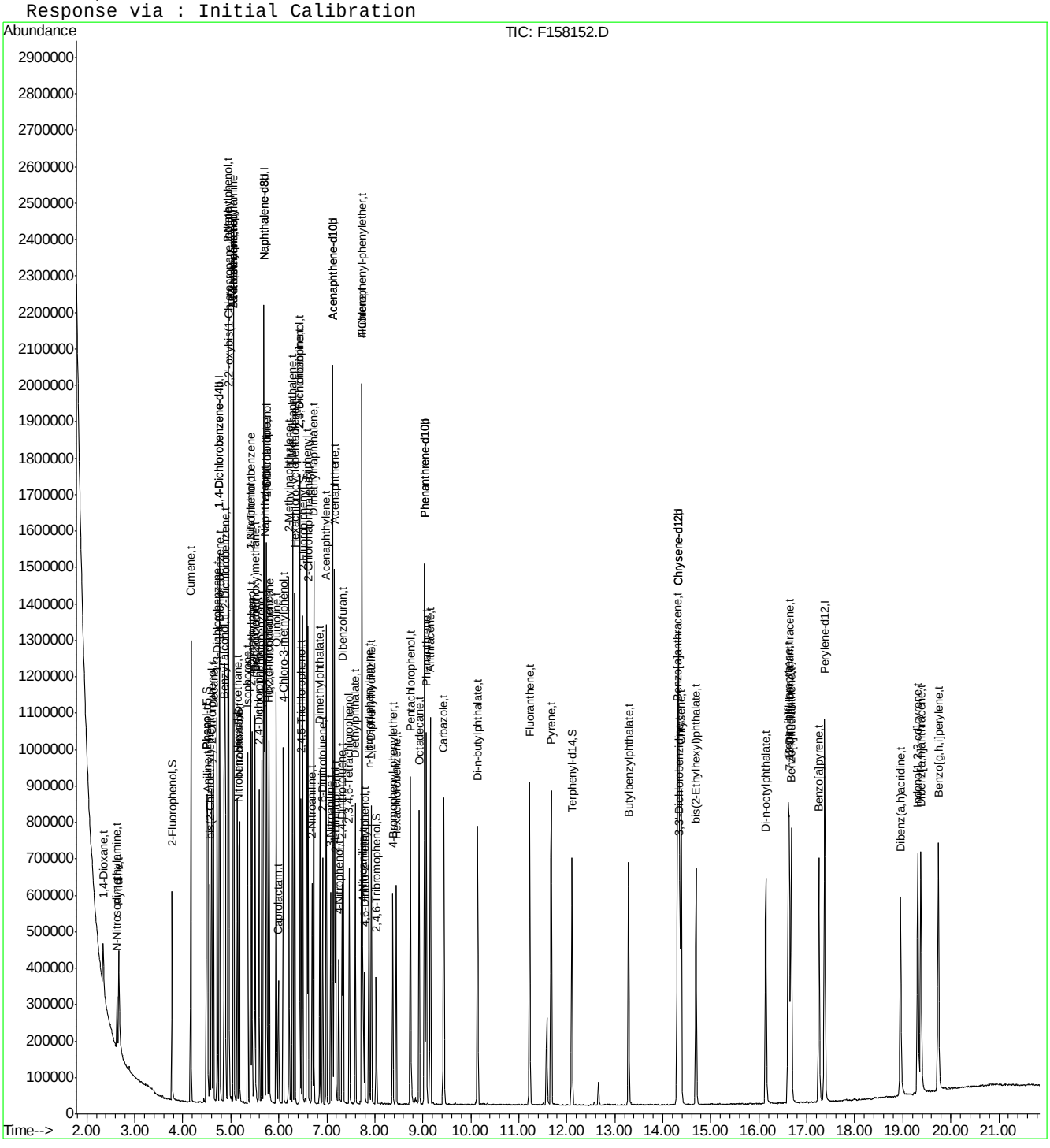
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158152.D Vial: 2
Acq On : 21 Jun 2016 11:50 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 14:40 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 14:36:23 2016
Response via : Initial Calibration

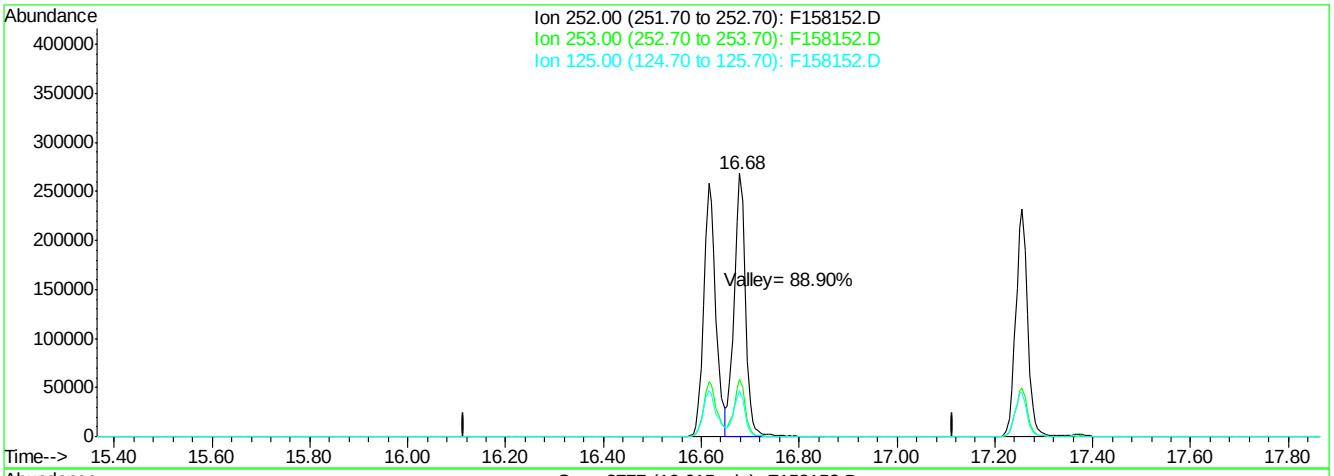


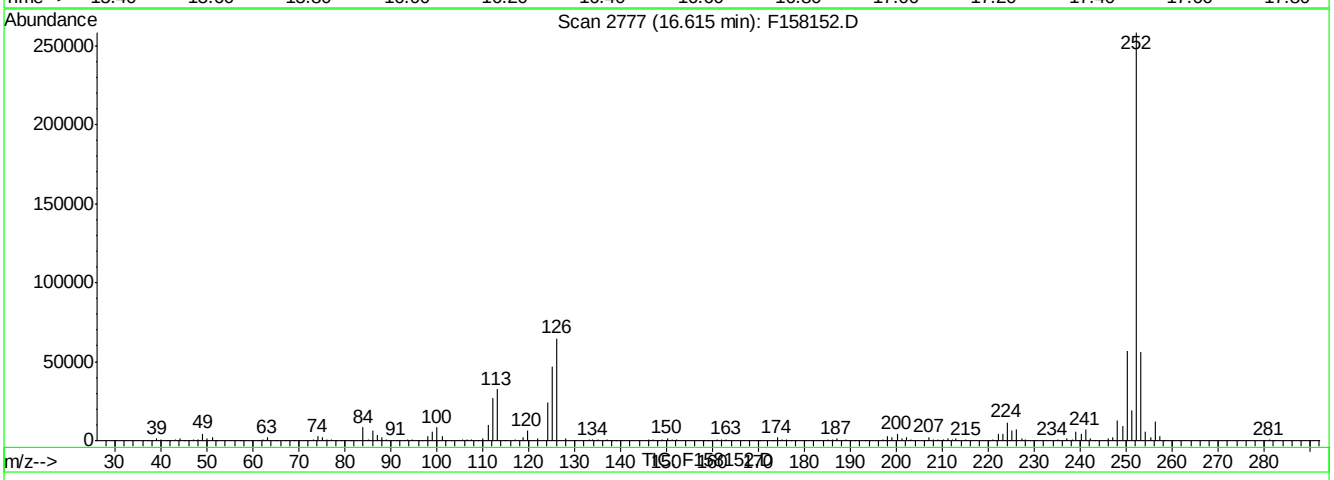
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158152.D Vial: 2
Acq On : 21 Jun 2016 11:50 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 14:36 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 14:36:23 2016
Response via : Multiple Level Calibration





(94) Benzo[b]fluoranthene (t)

16.61min 27.33ppm

response 445884

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.11
125.00	18.10	17.26
0.00	0.00	0.00

F158152.D MF6644.M Tue Jun 21 14:38:00 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158153.D Vial: 3
Acq On : 21 Jun 2016 12:20 pm Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 12:42:54 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 11:55:58 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	185960	40.00	ppm	-0.02
24) Naphthalene-d8	5.68	136	746839	40.00	ppm	-0.03
47) Acenaphthene-d10	7.13	164	425157	40.00	ppm	-0.03
69) Phenanthrene-d10	9.03	188	683865	40.00	ppm	-0.05
83) Chrysene-d12	14.32	240	580916	40.00	ppm	-0.06
92) Perylene-d12	17.37	264	549901	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.76	152	185960	40.00	ppm	-0.02
104) Naphthalene-d8b	5.68	136	746839	40.00	ppm	-0.03
106) Acenaphthene-d10b	7.13	164	425157	40.00	ppm	-0.03
108) Phenanthrene-d10b	9.03	188	683865	40.00	ppm	-0.05
110) Chrysene-d12b	14.32	240	580916	40.00	ppm	-0.06

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%	

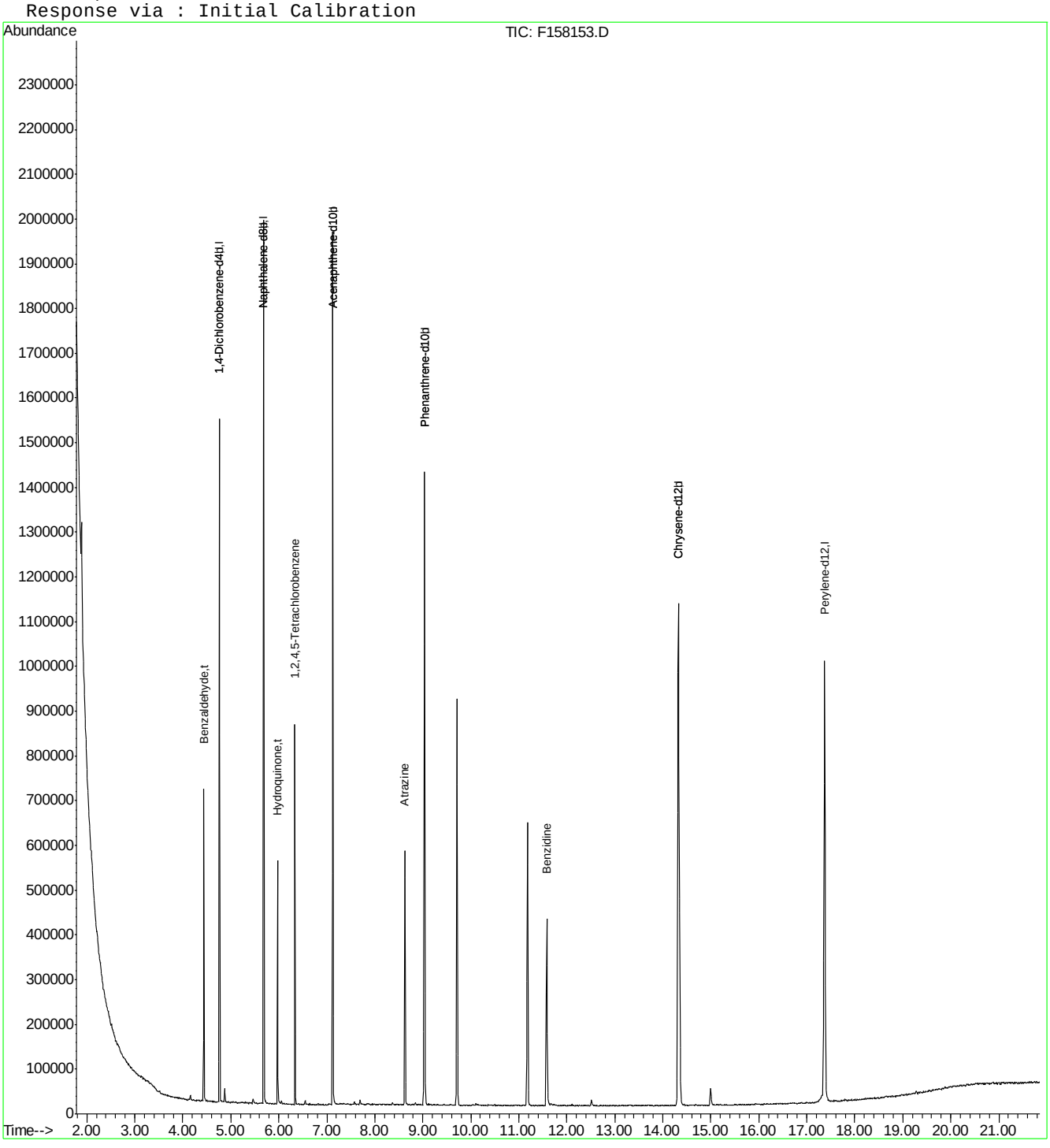
Target Compounds						Qvalue
103) Benzaldehyde	4.44	105	128915	25.28	ppm	91
105) Hydroquinone	5.97	110	178854	31.64	ppm	95
107) 1,2,4,5-Tetrachlorobenzene	6.34	216	119993	26.90	ppm	97
109) Atrazine	8.63	200	79713	31.03	ppm	97
111) Benzidine	11.58	184	230178	34.97	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158153.D MF6644.M Tue Jun 21 14:39:14 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6659\F158153.D Vial: 3
Acq On : 21 Jun 2016 12:20 pm Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6659 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 21 14:39 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 14:36:23 2016
Response via : Initial Calibration



F158153.D MF6644.M Tue Jun 21 14:39:14 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158190.D Vial: 2
Acq On : 22 Jun 2016 12:38 am Operator: juliusj
Sample : ic6660-100 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 08:54:31 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	184589	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	729500	40.00	ppm	-0.05
47) Acenaphthene-d10	7.09	164	415235	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	620372	40.00	ppm	-0.10
83) Chrysene-d12	14.29	240	505445	40.00	ppm	-0.12
92) Perylene-d12	17.33	264	437893	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	184589	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	729500	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.09	164	415235	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	620372	40.00	ppm	-0.32
147) Chrysene-d12A	14.29	240	505445	40.00	ppm	-0.40
155) Perylene-d12A	17.33	264	437893	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	184589	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	729500	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.09	164	415235	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	620372	40.00	ppm	-0.10
167) Chrysene-d12b	14.29	240	505445	40.00	ppm	-0.12
169) 1,4-Dichlorobenzene-d4c	4.74	152	184589	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	729500	40.00	ppm	0.00
176) Chrysene-d12c	14.29	240	505445	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	729500	40.00	ppm	-0.19
180) Chrysene-d12B	14.29	240	505445	40.00	ppm	-0.34

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%			

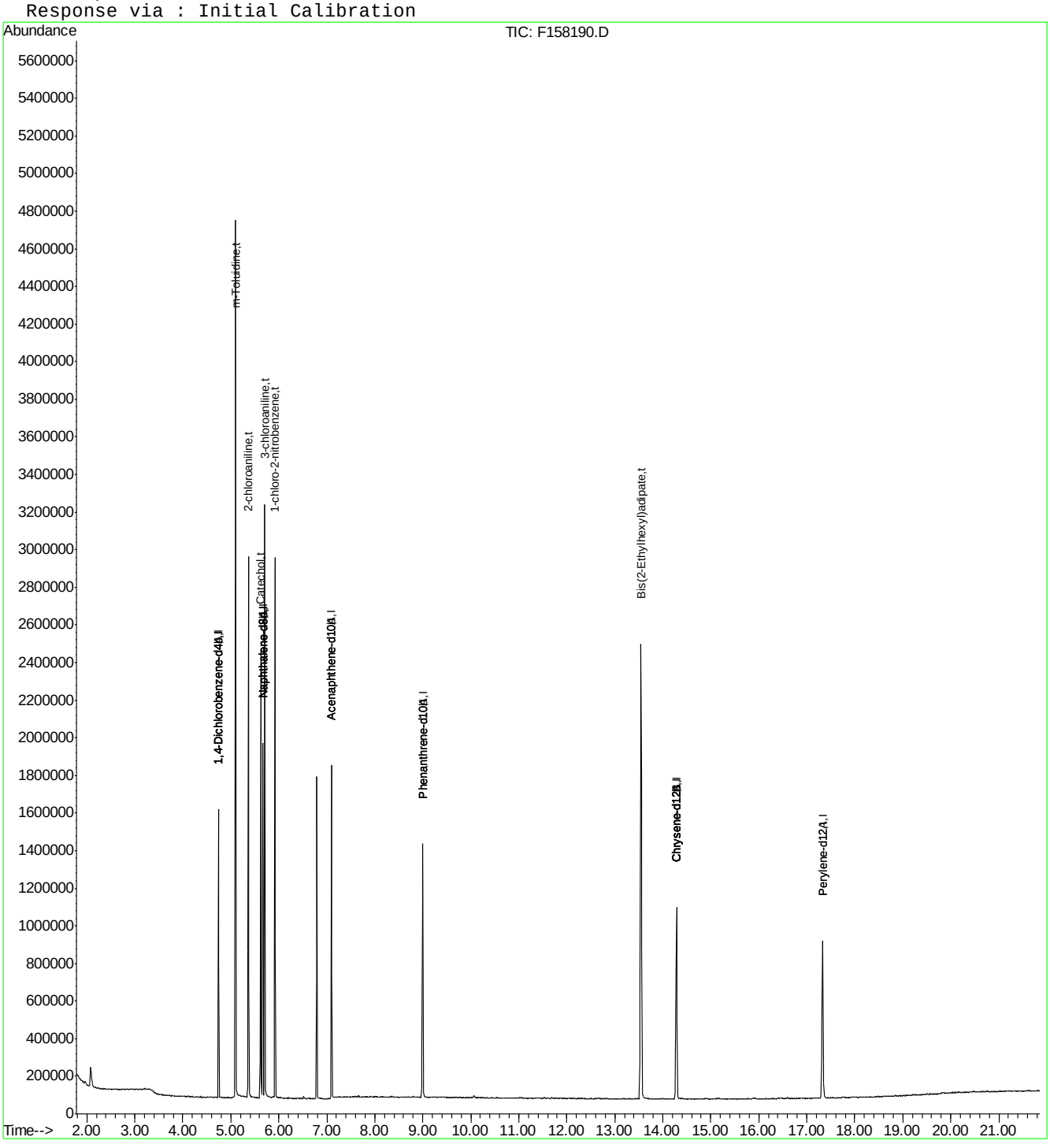
Target Compounds							Qvalue
170) m-Toluidine	5.10	106	1137691	100.00	ppm		98
172) 2-chloroaniline	5.37	127	839668	100.00	ppm		94
173) 3-chloroaniline	5.71	127	785300	99.85	ppm		94
174) Catechol	5.62	110	696008	100.11	ppm	#	22
175) 1-chloro-2-nitrobenzene	5.92	75	359250	100.00	ppm		70
177) Bis(2-Ethylhexyl)adipate	13.55	129	800372	100.00	ppm		97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158190.D Vial: 2
Acq On : 22 Jun 2016 12:38 am Operator: juliusj
Sample : ic6660-100 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 8:55 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158191.D Vial: 3
Acq On : 22 Jun 2016 1:08 am Operator: juliusj
Sample : ic6660-80 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 08:55:28 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	177246	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	712314	40.00	ppm	-0.05
47) Acenaphthene-d10	7.09	164	401210	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	602702	40.00	ppm	-0.10
83) Chrysene-d12	14.28	240	487133	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	427771	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	177246	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	712314	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.09	164	401210	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	602702	40.00	ppm	-0.32
147) Chrysene-d12A	14.28	240	487133	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	427771	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	177246	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	712314	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.09	164	401210	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	602702	40.00	ppm	-0.10
167) Chrysene-d12b	14.28	240	487133	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	177246	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	712314	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	487133	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	712314	40.00	ppm	-0.19
180) Chrysene-d12B	14.28	240	487133	40.00	ppm	-0.35

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%			

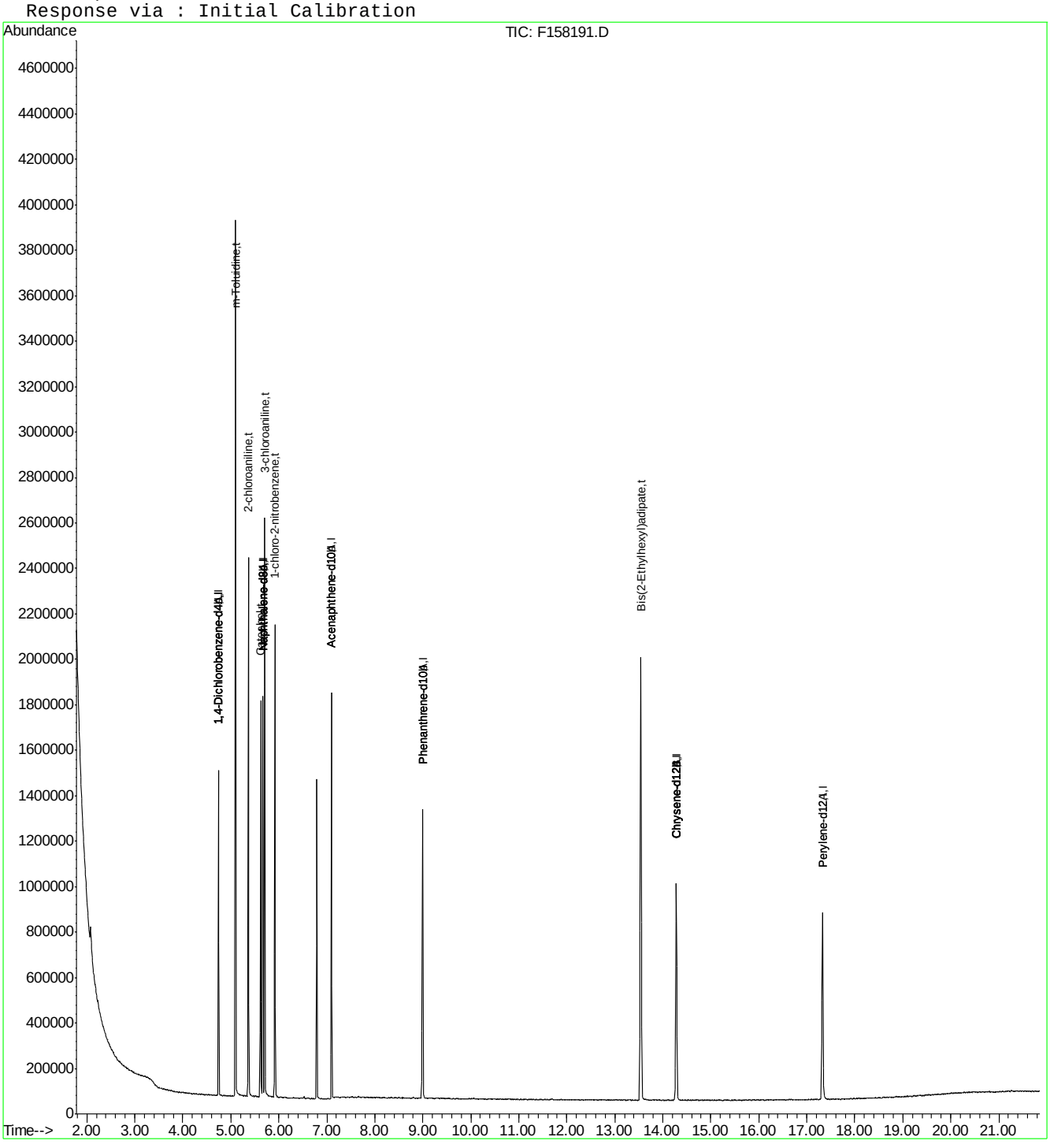
Target Compounds							Qvalue
170) m-Toluidine	5.10	106	946501	86.64	ppm		98
172) 2-chloroaniline	5.36	127	682155	83.20	ppm		97
173) 3-chloroaniline	5.71	127	649197	84.54	ppm		93
174) Catechol	5.62	110	560643	82.58	ppm	#	21
175) 1-chloro-2-nitrobenzene	5.91	75	289397	82.50	ppm		83
177) Bis(2-Ethylhexyl)adipate	13.54	129	640092	82.98	ppm		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158191.D Vial: 3
Acq On : 22 Jun 2016 1:08 am Operator: juliusj
Sample : ic6660-80 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 8:56 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158192.D Vial: 4
Acq On : 22 Jun 2016 1:37 am Operator: juliusj
Sample : icc6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 08:56:23 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	175525	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	696059	40.00	ppm	-0.05
47) Acenaphthene-d10	7.10	164	395076	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	584879	40.00	ppm	-0.10
83) Chrysene-d12	14.28	240	475236	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	399803	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	175525	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	696059	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.10	164	395076	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	584879	40.00	ppm	-0.32
147) Chrysene-d12A	14.28	240	475236	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	399803	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	175525	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	696059	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.10	164	395076	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	584879	40.00	ppm	-0.10
167) Chrysene-d12b	14.28	240	475236	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	175525	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	696059	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	475236	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	696059	40.00	ppm	-0.19
180) Chrysene-d12B	14.28	240	475236	40.00	ppm	-0.35

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

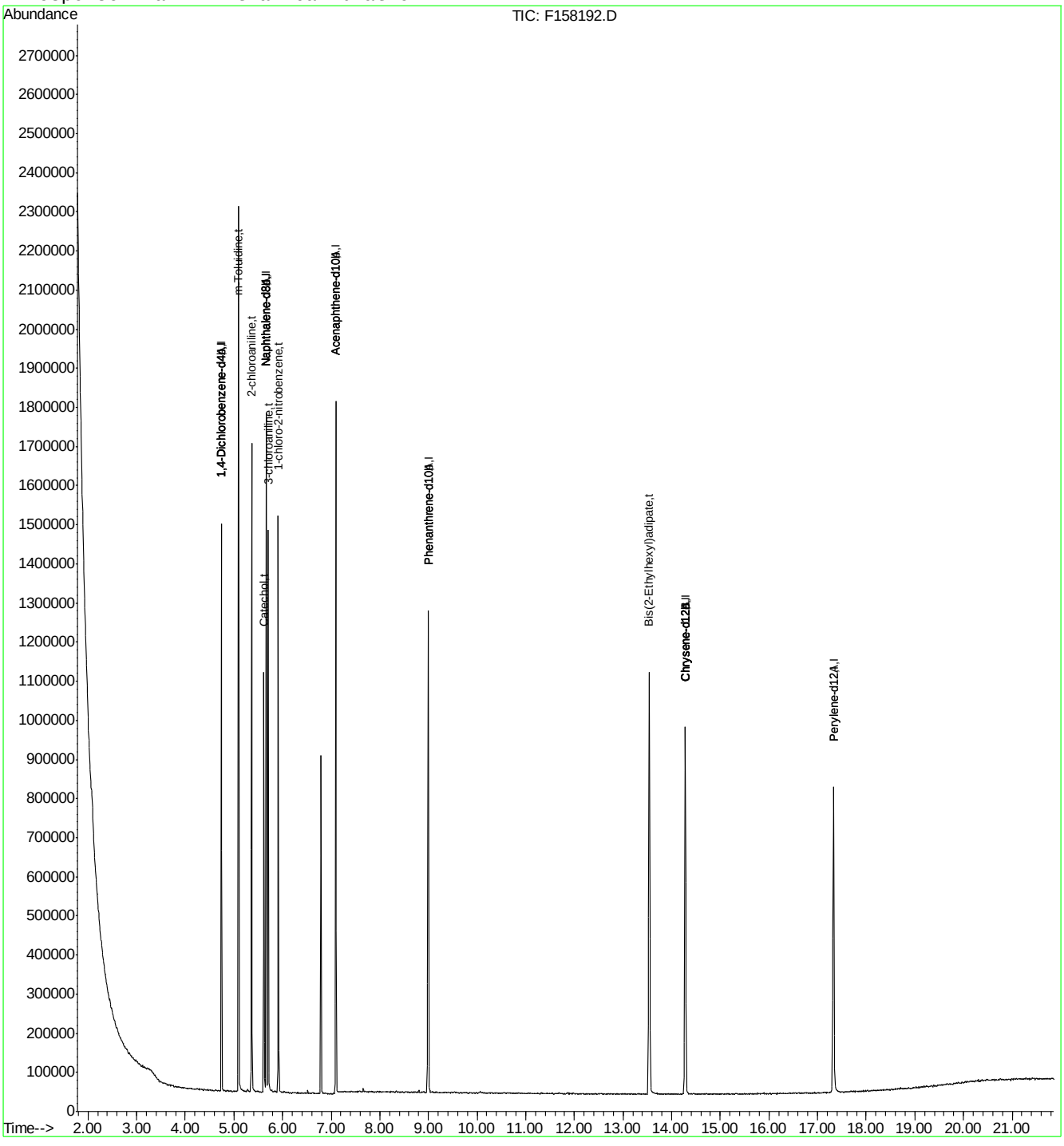
							Qvalue
170) m-Toluidine	5.09	106	577910	53.42	ppm		98
172) 2-chloroaniline	5.36	127	413313	51.59	ppm		96
173) 3-chloroaniline	5.71	127	393130	52.39	ppm		93
174) Catechol	5.62	110	314316	47.38	ppm	#	23
175) 1-chloro-2-nitrobenzene	5.91	75	171788	50.12	ppm		79
177) Bis(2-Ethylhexyl)adipate	13.54	129	349550	46.45	ppm		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158192.D Vial: 4
Acq On : 22 Jun 2016 1:37 am Operator: juliusj
Sample : icc6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 8:57 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



F158192.D MF6644AP9.M Wed Jun 22 08:57:33 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158193.D Vial: 5
Acq On : 22 Jun 2016 2:06 am Operator: juliusj
Sample : ic6660-25 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 08:57:41 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	174482	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	685029	40.00	ppm	-0.05
47) Acenaphthene-d10	7.10	164	386551	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	576445	40.00	ppm	-0.10
83) Chrysene-d12	14.28	240	461627	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	396158	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	174482	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	685029	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.10	164	386551	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	576445	40.00	ppm	-0.32
147) Chrysene-d12A	14.28	240	461627	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	396158	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	174482	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	685029	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.10	164	386551	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	576445	40.00	ppm	-0.10
167) Chrysene-d12b	14.28	240	461627	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	174482	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	685029	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	461627	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	685029	40.00	ppm	-0.19
180) Chrysene-d12B	14.28	240	461627	40.00	ppm	-0.35

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

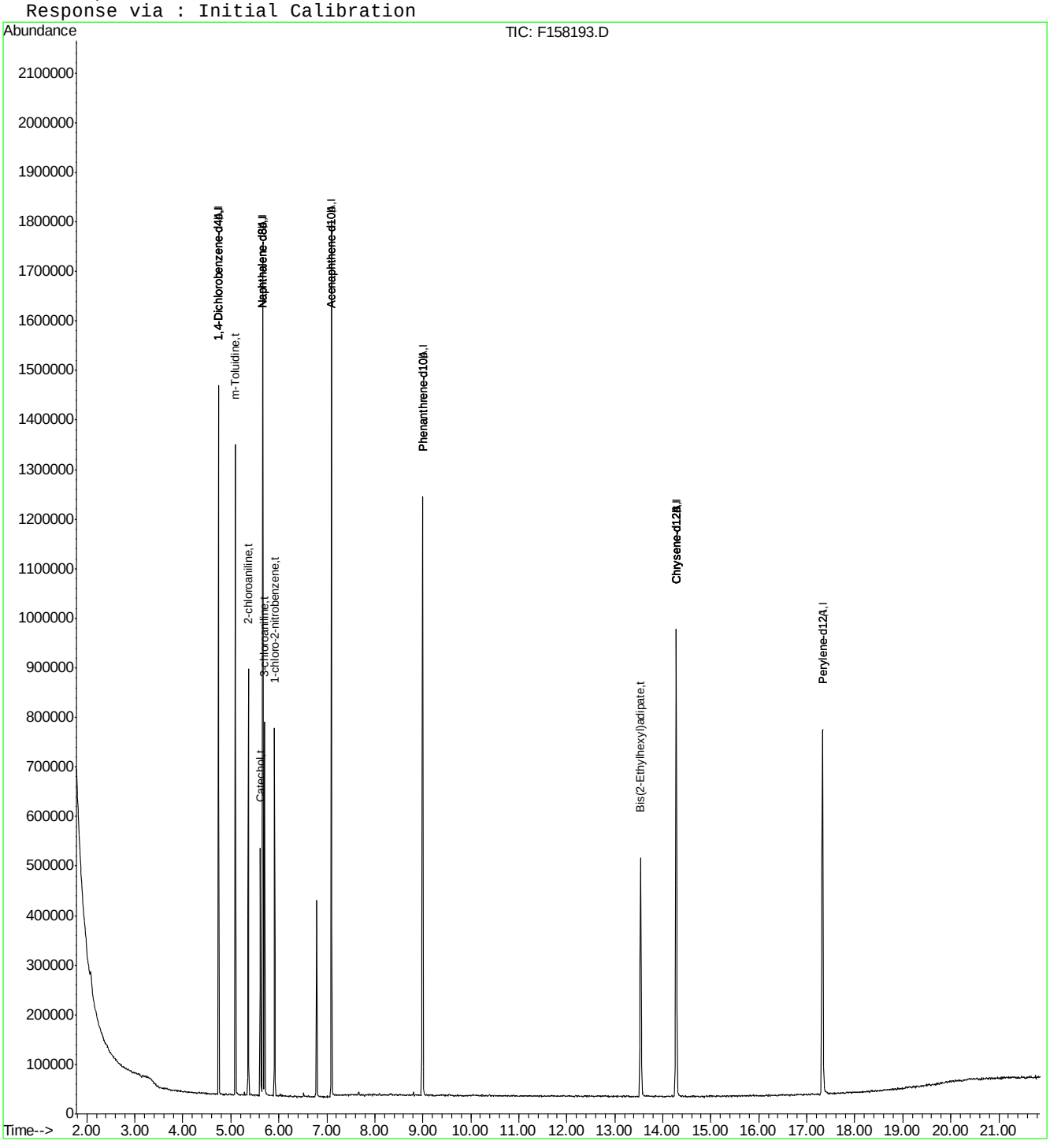
							Qvalue
170) m-Toluidine	5.09	106	288196	26.80	ppm		97
172) 2-chloroaniline	5.36	127	201618	25.57	ppm		97
173) 3-chloroaniline	5.70	127	194962	26.40	ppm		96
174) Catechol	5.62	110	142296	21.80	ppm	#	23
175) 1-chloro-2-nitrobenzene	5.91	75	85386	25.31	ppm		75
177) Bis(2-Ethylhexyl)adipate	13.54	129	156148	21.36	ppm		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158193.D Vial: 5
Acq On : 22 Jun 2016 2:06 am Operator: juliusj
Sample : ic6660-25 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 8:58 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



F158193.D MF6644AP9.M Wed Jun 22 08:58:28 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158194.D Vial: 6
Acq On : 22 Jun 2016 2:36 am Operator: juliusj
Sample : ic6660-10 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 08:58:35 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	184183	40.00	ppm	-0.05
24) Naphthalene-d8	5.66	136	728996	40.00	ppm	-0.06
47) Acenaphthene-d10	7.09	164	410895	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	613112	40.00	ppm	-0.10
83) Chrysene-d12	14.28	240	486957	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	422857	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	184183	40.00	ppm	-0.18
112) Naphthalene-d8A	5.66	136	728996	40.00	ppm	-0.19
121) Acenaphthene-d10A	7.09	164	410895	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	613112	40.00	ppm	-0.32
147) Chrysene-d12A	14.28	240	486957	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	422857	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	184183	40.00	ppm	-0.05
161) Naphthalene-d8b	5.66	136	728996	40.00	ppm	-0.06
163) Acenaphthene-d10b	7.09	164	410895	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	613112	40.00	ppm	-0.10
167) Chrysene-d12b	14.28	240	486957	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	184183	40.00	ppm	0.00
171) Naphthalene-d8c	5.66	136	728996	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	486957	40.00	ppm	0.00
178) Naphthalene-d8d	5.66	136	728996	40.00	ppm	-0.20
180) Chrysene-d12B	14.28	240	486957	40.00	ppm	-0.35

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

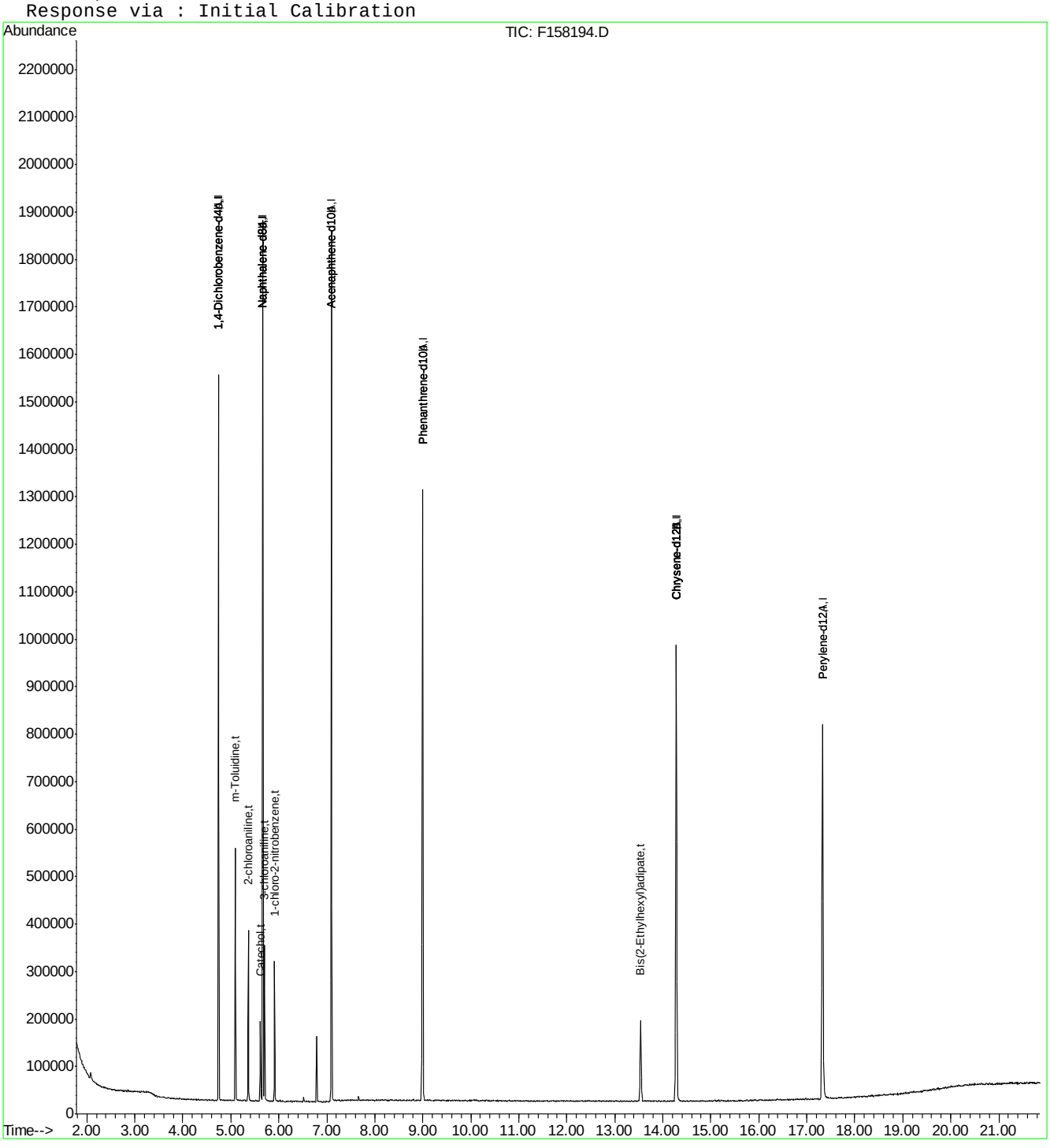
							Qvalue
170) m-Toluidine	5.09	106	114393	10.08	ppm		98
172) 2-chloroaniline	5.36	127	80729	9.62	ppm		97
173) 3-chloroaniline	5.70	127	80137	10.20	ppm		96
174) Catechol	5.62	110	48636	7.00	ppm	#	22
175) 1-chloro-2-nitrobenzene	5.91	75	34052	9.49	ppm		73
177) Bis(2-Ethylhexyl)adipate	13.54	129	50801	6.59	ppm		97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158194.D Vial: 6
Acq On : 22 Jun 2016 2:36 am Operator: juliusj
Sample : ic6660-10 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 8:58 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158195.D Vial: 7
Acq On : 22 Jun 2016 3:05 am Operator: juliusj
Sample : ic6660-5 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 08:59:19 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	175040	40.00	ppm	-0.05
24) Naphthalene-d8	5.66	136	700161	40.00	ppm	-0.06
47) Acenaphthene-d10	7.10	164	394223	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	591841	40.00	ppm	-0.10
83) Chrysene-d12	14.28	240	472697	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	409948	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	175040	40.00	ppm	-0.18
112) Naphthalene-d8A	5.66	136	700161	40.00	ppm	-0.19
121) Acenaphthene-d10A	7.10	164	394223	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	591841	40.00	ppm	-0.32
147) Chrysene-d12A	14.28	240	472697	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	409948	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	175040	40.00	ppm	-0.05
161) Naphthalene-d8b	5.66	136	700161	40.00	ppm	-0.06
163) Acenaphthene-d10b	7.10	164	394223	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	591841	40.00	ppm	-0.10
167) Chrysene-d12b	14.28	240	472697	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	175040	40.00	ppm	0.00
171) Naphthalene-d8c	5.66	136	700161	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	472697	40.00	ppm	0.00
178) Naphthalene-d8d	5.66	136	700161	40.00	ppm	-0.20
180) Chrysene-d12B	14.28	240	472697	40.00	ppm	-0.35

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

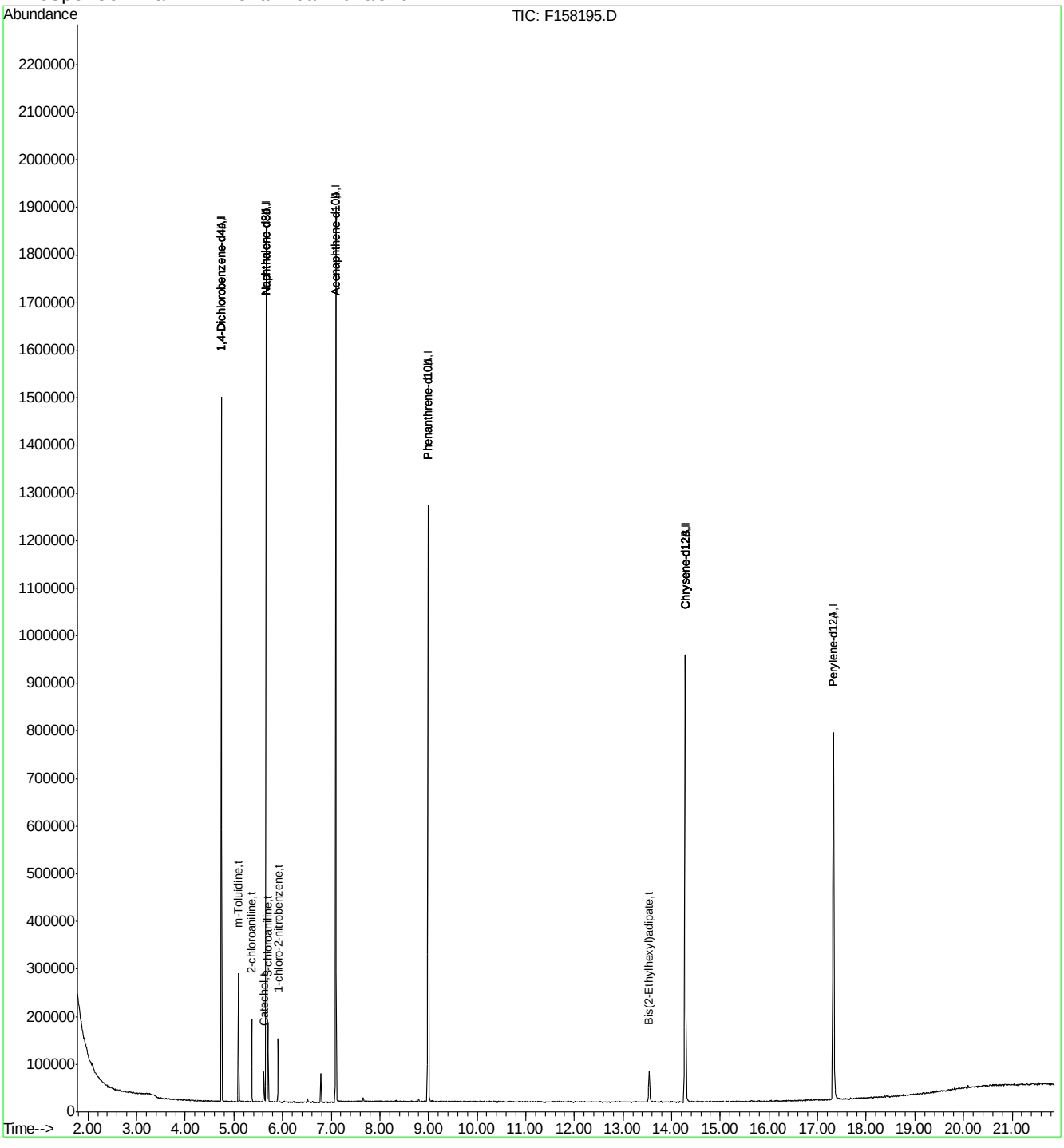
							Qvalue
170) m-Toluidine	5.09	106	56882	5.27	ppm		98
172) 2-chloroaniline	5.36	127	40273	5.00	ppm		95
173) 3-chloroaniline	5.70	127	39081	5.18	ppm		96
174) Catechol	5.62	110	20618	3.09	ppm	#	23
175) 1-chloro-2-nitrobenzene	5.91	75	15990	4.64	ppm		75
177) Bis(2-Ethylhexyl)adipate	13.54	129	21302	2.85	ppm		94

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158195.D Vial: 7
Acq On : 22 Jun 2016 3:05 am Operator: juliusj
Sample : ic6660-5 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 8:59 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158196.D Vial: 8
Acq On : 22 Jun 2016 3:34 am Operator: juliusj
Sample : ic6660-2 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 09:00:09 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	182023	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	724669	40.00	ppm	-0.05
47) Acenaphthene-d10	7.10	164	405930	40.00	ppm	-0.08
69) Phenanthrene-d10	8.99	188	609887	40.00	ppm	-0.11
83) Chrysene-d12	14.28	240	489152	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	421544	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	182023	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	724669	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.10	164	405930	40.00	ppm	-0.25
132) Phenanthrene-d10A	8.99	188	609887	40.00	ppm	-0.33
147) Chrysene-d12A	14.28	240	489152	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	421544	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	182023	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	724669	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.10	164	405930	40.00	ppm	-0.08
165) Phenanthrene-d10b	8.99	188	609887	40.00	ppm	-0.11
167) Chrysene-d12b	14.28	240	489152	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	182023	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	724669	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	489152	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	724669	40.00	ppm	-0.19
180) Chrysene-d12B	14.28	240	489152	40.00	ppm	-0.35

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

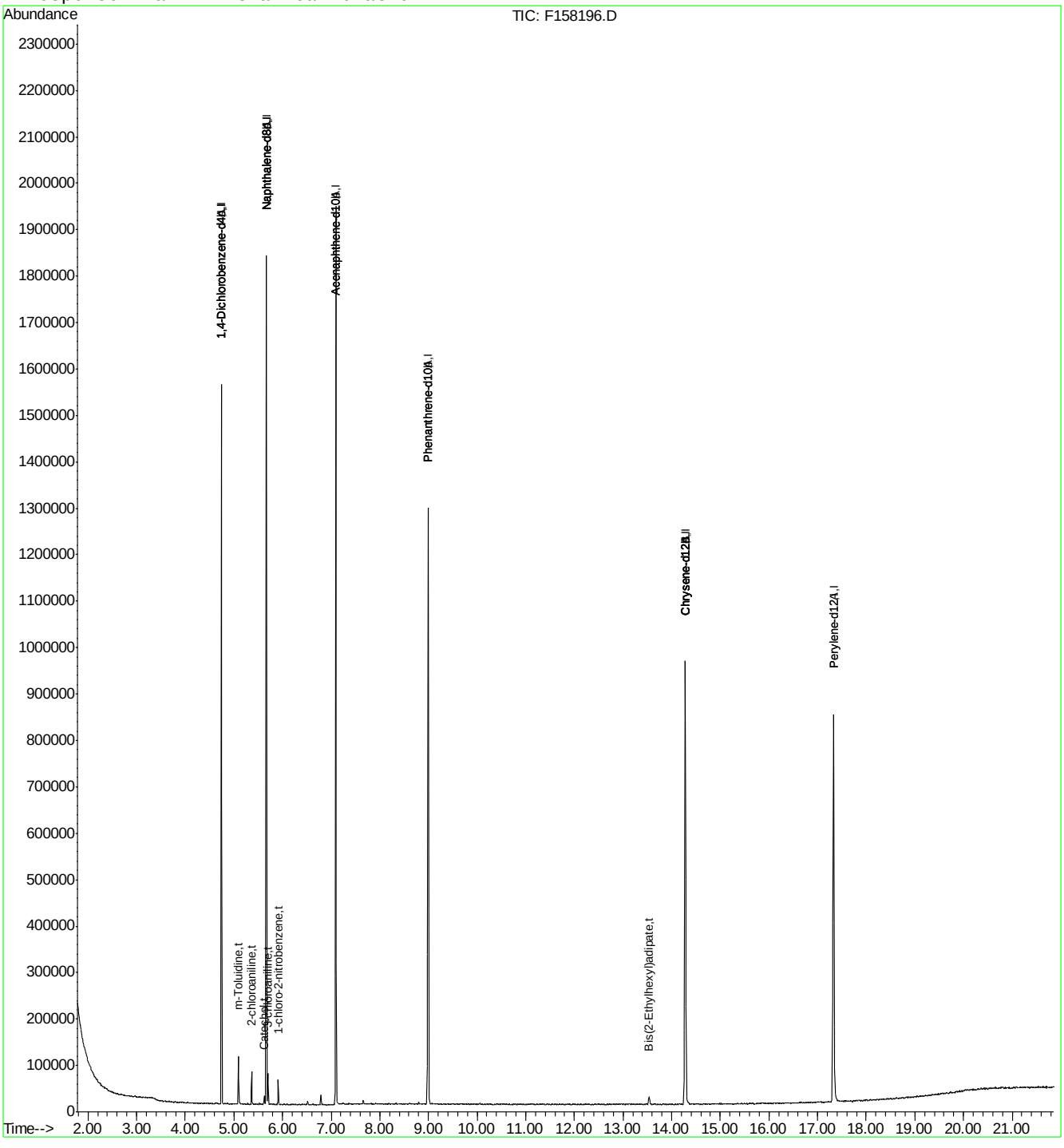
							Qvalue
170) m-Toluidine	5.09	106	21854	1.95	ppm		96
172) 2-chloroaniline	5.36	127	16043	1.92	ppm		97
173) 3-chloroaniline	5.70	127	15457	1.98	ppm		94
174) Catechol	5.62	110	6449	0.93	ppm	#	6
175) 1-chloro-2-nitrobenzene	5.91	75	6026	1.69	ppm		67
177) Bis(2-Ethylhexyl)adipate	13.54	129	5381	0.69	ppm		95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158196.D Vial: 8
Acq On : 22 Jun 2016 3:34 am Operator: juliusj
Sample : ic6660-2 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 9:00 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158197.D Vial: 9
Acq On : 22 Jun 2016 4:04 am Operator: juliusj
Sample : ic6660-1 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 09:00:56 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	183830	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	735142	40.00	ppm	-0.05
47) Acenaphthene-d10	7.09	164	402443	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	595725	40.00	ppm	-0.10
83) Chrysene-d12	14.28	240	469962	40.00	ppm	-0.13
92) Perylene-d12	17.33	264	408115	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	183830	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	735142	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.09	164	402443	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	595725	40.00	ppm	-0.32
147) Chrysene-d12A	14.28	240	469962	40.00	ppm	-0.41
155) Perylene-d12A	17.33	264	408115	40.00	ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	183830	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	735142	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.09	164	402443	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	595725	40.00	ppm	-0.10
167) Chrysene-d12b	14.28	240	469962	40.00	ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	183830	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	735142	40.00	ppm	0.00
176) Chrysene-d12c	14.28	240	469962	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	735142	40.00	ppm	-0.19
180) Chrysene-d12B	14.28	240	469962	40.00	ppm	-0.35

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

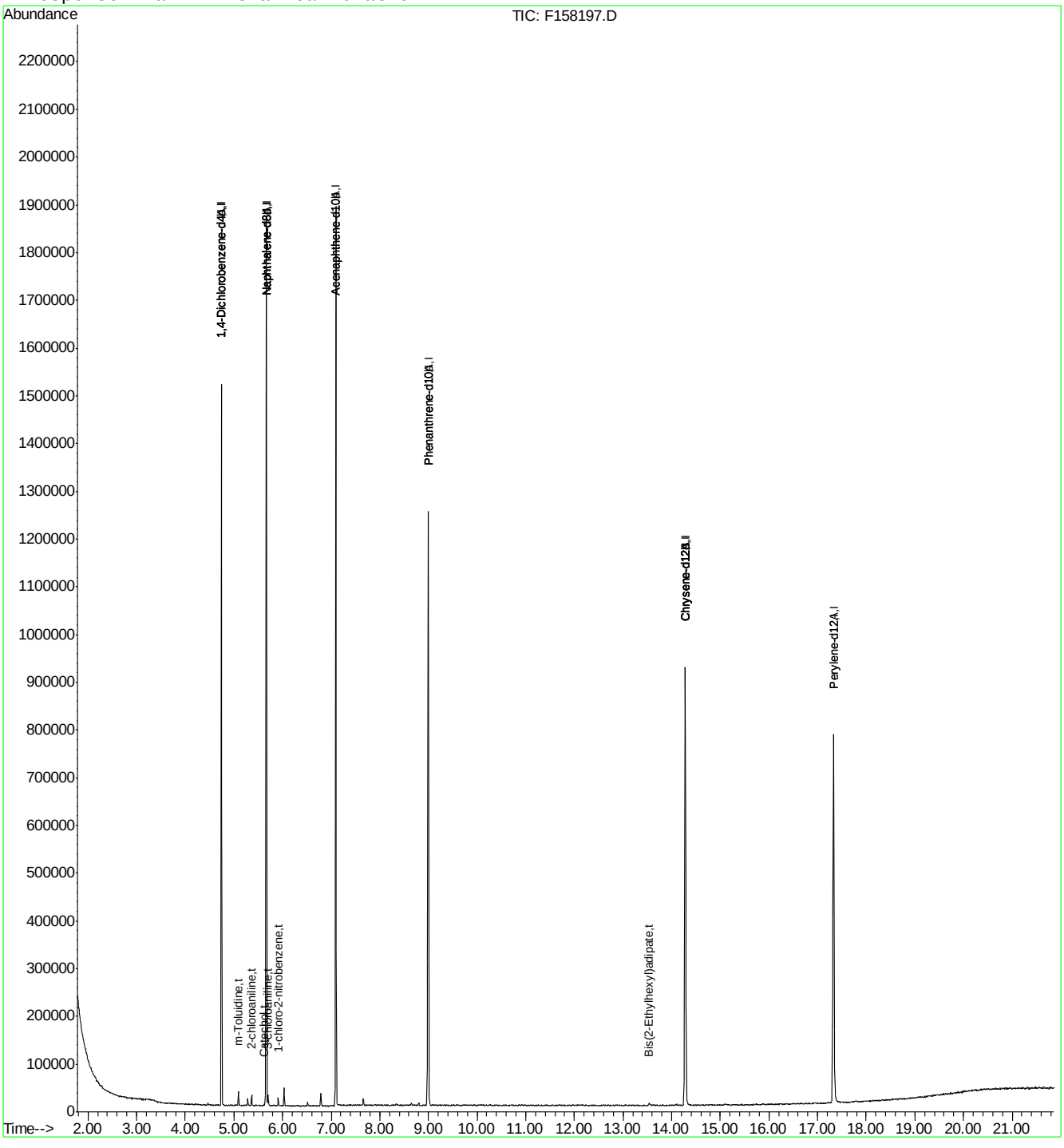
							Qvalue
170) m-Toluidine	5.09	106	6625	0.58	ppm		92
172) 2-chloroaniline	5.36	127	5096	0.60	ppm		97
173) 3-chloroaniline	5.70	127	4761	0.60	ppm		99
174) Catechol	5.62	110	1613	0.23	ppm	#	25
175) 1-chloro-2-nitrobenzene	5.91	75	2056	0.57	ppm	#	63
177) Bis(2-Ethylhexyl)adipate	13.53	129	1465	0.20	ppm		96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158197.D Vial: 9
Acq On : 22 Jun 2016 4:04 am Operator: juliusj
Sample : ic6660-1 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 9:01 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 08:54:28 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158198.D Vial: 10
Acq On : 22 Jun 2016 4:32 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 09:18:09 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	168044	40.00 ppm	-0.05
24) Naphthalene-d8	5.66	136	662654	40.00 ppm	-0.06
47) Acenaphthene-d10	7.10	164	367849	40.00 ppm	-0.08
69) Phenanthrene-d10	8.99	188	543870	40.00 ppm	-0.11
83) Chrysene-d12	14.28	240	419183	40.00 ppm	-0.13
92) Perylene-d12	17.33	264	362050	40.00 ppm	-0.13
102) 1,4-Dichlorobenzene-d4A	4.74	152	168044	40.00 ppm	-0.18
112) Naphthalene-d8A	5.66	136	662654	40.00 ppm	-0.19
121) Acenaphthene-d10A	7.10	164	367849	40.00 ppm	-0.25
132) Phenanthrene-d10A	8.99	188	543870	40.00 ppm	-0.33
147) Chrysene-d12A	14.28	240	419183	40.00 ppm	-0.41
155) Perylene-d12A	17.33	264	362050	40.00 ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	168044	40.00 ppm	-0.05
161) Naphthalene-d8b	5.66	136	662654	40.00 ppm	-0.06
163) Acenaphthene-d10b	7.10	164	367849	40.00 ppm	-0.08
165) Phenanthrene-d10b	8.99	188	543870	40.00 ppm	-0.11
167) Chrysene-d12b	14.28	240	419183	40.00 ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	168044	40.00 ppm	0.00
171) Naphthalene-d8c	5.66	136	662654	40.00 ppm	0.00
176) Chrysene-d12c	14.28	240	419183	40.00 ppm	0.00
178) Naphthalene-d8d	5.66	136	662654	40.00 ppm	-0.20
180) Chrysene-d12B	14.28	240	419183	40.00 ppm	-0.35

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%		

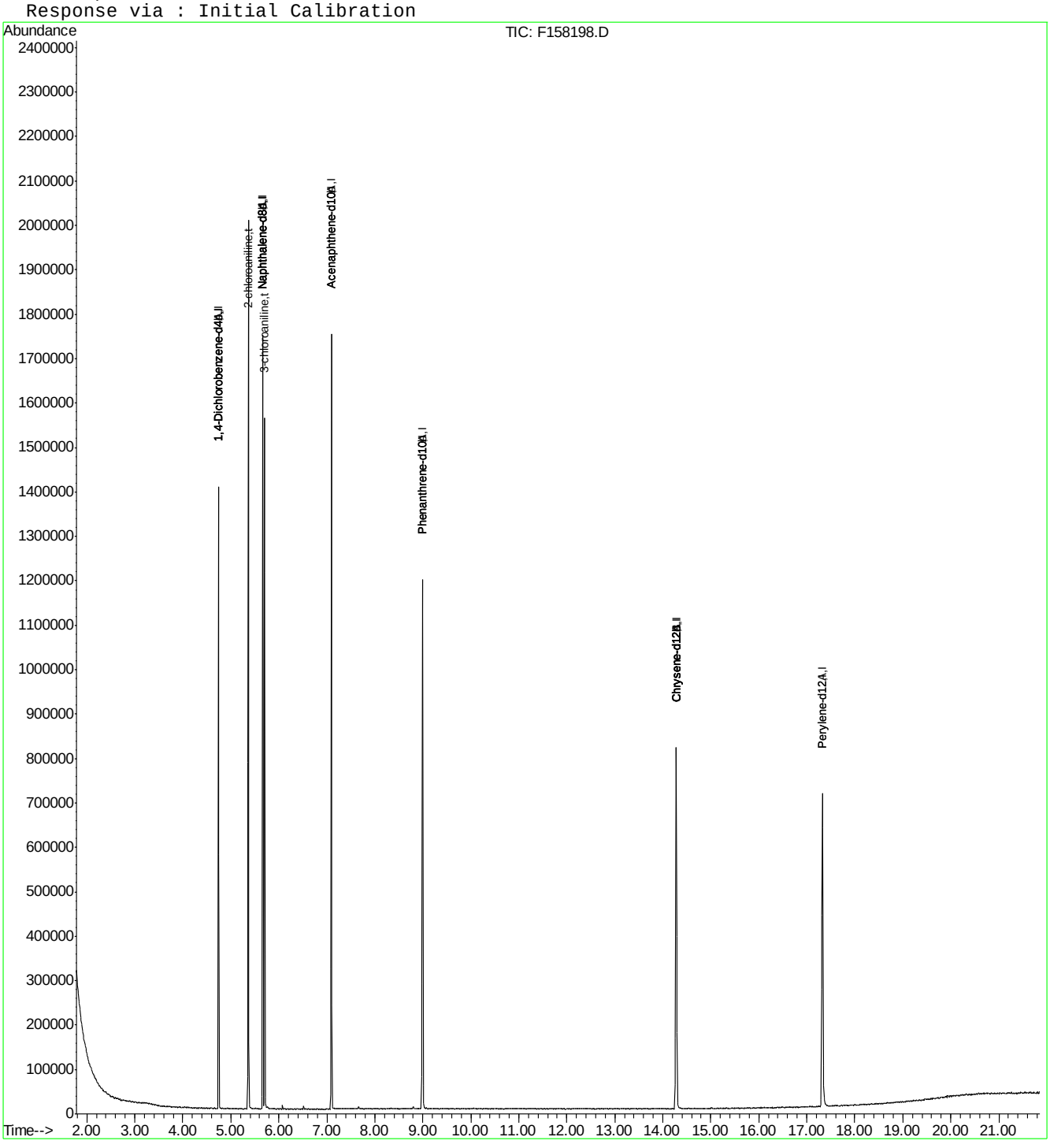
Target Compounds					Qvalue
172) 2-chloroaniline	5.36	127	474638	62.07 ppm	96
173) 3-chloroaniline	5.70	127	392023	56.25 ppm	96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158198.D Vial: 10
Acq On : 22 Jun 2016 4:32 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 9:18 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration



F158198.D MF6644AP9.M Wed Jun 22 09:19:25 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158199.D Vial: 11
Acq On : 22 Jun 2016 5:01 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 09:19:29 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	302177	40.00	ppm	-0.05
24) Naphthalene-d8	5.67	136	1192946	40.00	ppm	-0.05
47) Acenaphthene-d10	7.10	164	661504	40.00	ppm	-0.08
69) Phenanthrene-d10	9.00	188	983804	40.00	ppm	-0.10
83) Chrysene-d12	14.29	240	781066	40.00	ppm	-0.12
92) Perylene-d12	17.34	264	682657	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	302177	40.00	ppm	-0.18
112) Naphthalene-d8A	5.67	136	1192946	40.00	ppm	-0.18
121) Acenaphthene-d10A	7.10	164	661504	40.00	ppm	-0.25
132) Phenanthrene-d10A	9.00	188	983804	40.00	ppm	-0.32
147) Chrysene-d12A	14.29	240	781066	40.00	ppm	-0.40
155) Perylene-d12A	17.34	264	682657	40.00	ppm	-0.41
159) 1,4-Dichlorobenzene-d4b	4.74	152	302177	40.00	ppm	-0.05
161) Naphthalene-d8b	5.67	136	1192946	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.10	164	661504	40.00	ppm	-0.08
165) Phenanthrene-d10b	9.00	188	983804	40.00	ppm	-0.10
167) Chrysene-d12b	14.29	240	781066	40.00	ppm	-0.12
169) 1,4-Dichlorobenzene-d4c	4.74	152	302177	40.00	ppm	0.00
171) Naphthalene-d8c	5.67	136	1192946	40.00	ppm	0.00
176) Chrysene-d12c	14.29	240	781066	40.00	ppm	0.00
178) Naphthalene-d8d	5.67	136	1192946	40.00	ppm	-0.19
180) Chrysene-d12B	14.29	240	781066	40.00	ppm	-0.34

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%			

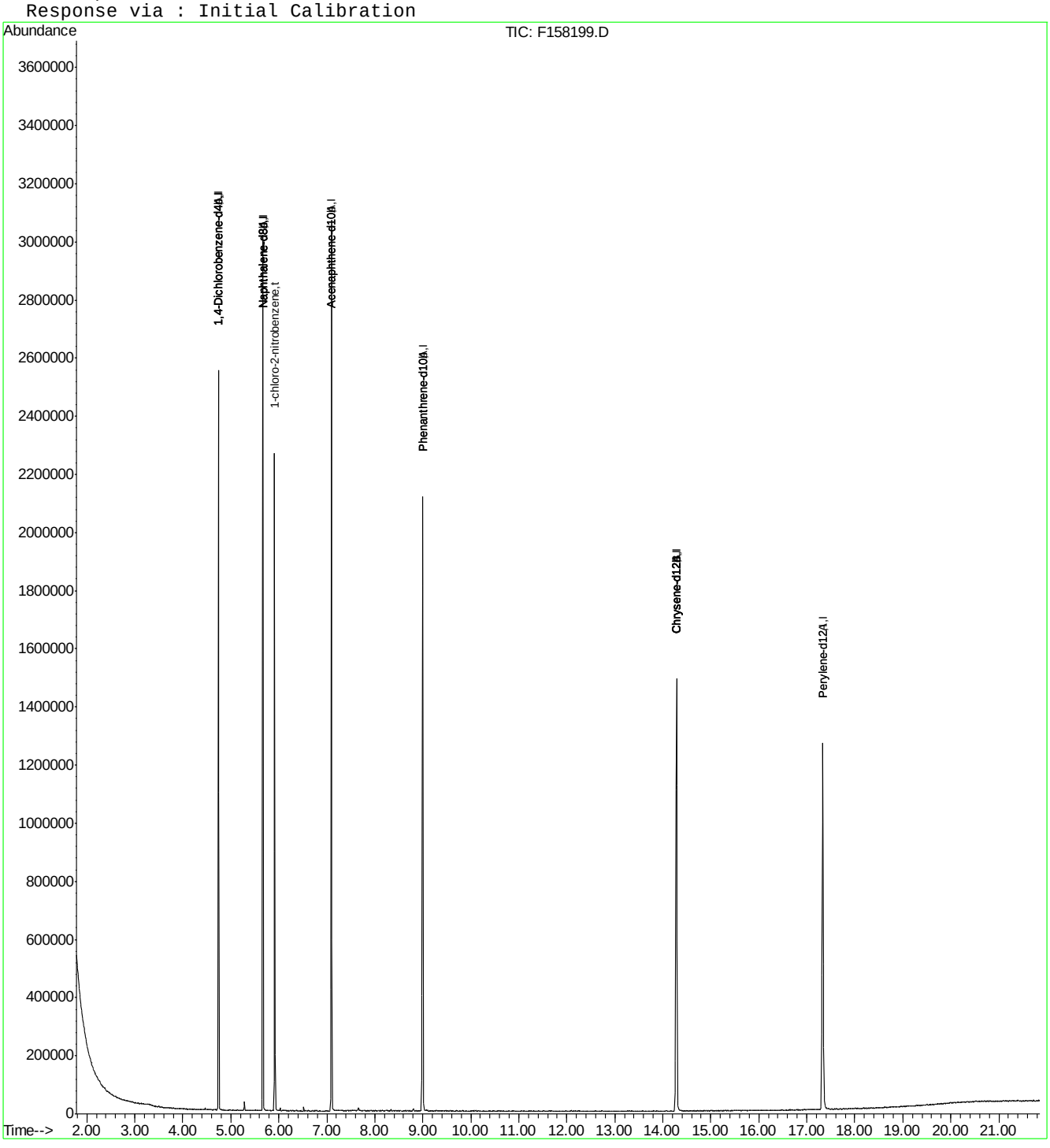
Target Compounds						Qvalue
175) 1-chloro-2-nitrobenzene	5.91	75	284607	52.84	ppm	81

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158199.D Vial: 11
Acq On : 22 Jun 2016 5:01 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 9:20 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158200.D Vial: 12
Acq On : 22 Jun 2016 5:31 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 09:20:46 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	167920	40.00 ppm	-0.05
24) Naphthalene-d8	5.67	136	668441	40.00 ppm	-0.05
47) Acenaphthene-d10	7.10	164	370224	40.00 ppm	-0.08
69) Phenanthrene-d10	9.00	188	563241	40.00 ppm	-0.10
83) Chrysene-d12	14.28	240	439036	40.00 ppm	-0.13
92) Perylene-d12	17.33	264	375304	40.00 ppm	-0.13
102) 1,4-Dichlorobenzene-d4A	4.74	152	167920	40.00 ppm	-0.18
112) Naphthalene-d8A	5.67	136	668441	40.00 ppm	-0.18
121) Acenaphthene-d10A	7.10	164	370224	40.00 ppm	-0.25
132) Phenanthrene-d10A	9.00	188	563241	40.00 ppm	-0.32
147) Chrysene-d12A	14.28	240	439036	40.00 ppm	-0.41
155) Perylene-d12A	17.33	264	375304	40.00 ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	167920	40.00 ppm	-0.05
161) Naphthalene-d8b	5.67	136	668441	40.00 ppm	-0.05
163) Acenaphthene-d10b	7.10	164	370224	40.00 ppm	-0.08
165) Phenanthrene-d10b	9.00	188	563241	40.00 ppm	-0.10
167) Chrysene-d12b	14.28	240	439036	40.00 ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	167920	40.00 ppm	0.00
171) Naphthalene-d8c	5.67	136	668441	40.00 ppm	0.00
176) Chrysene-d12c	14.28	240	439036	40.00 ppm	0.00
178) Naphthalene-d8d	5.67	136	668441	40.00 ppm	-0.19
180) Chrysene-d12B	14.28	240	439036	40.00 ppm	-0.35

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
170) m-Toluidine	5.09	106	417192	41.11 ppm	97

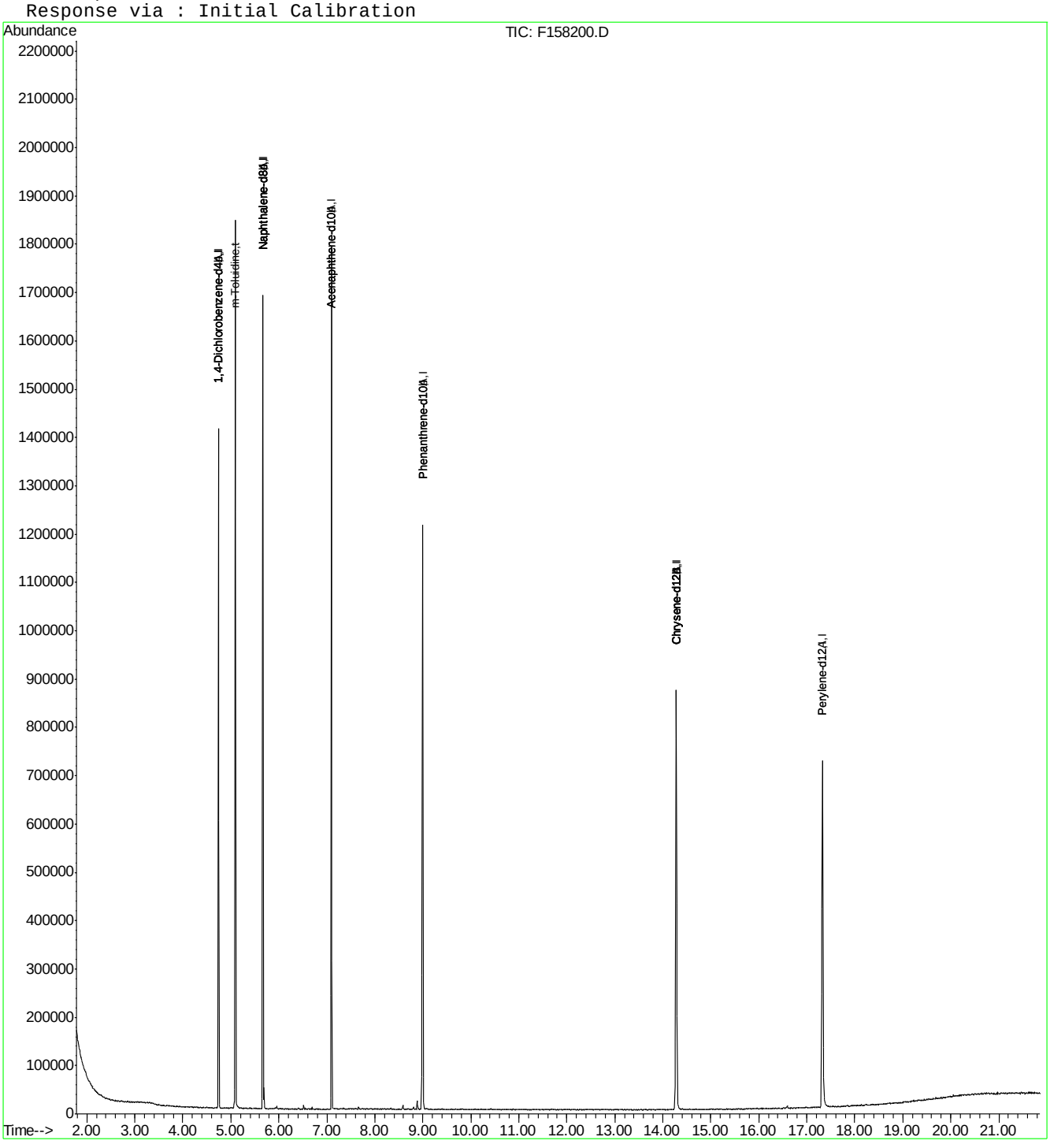
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158200.D Vial: 12
Acq On : 22 Jun 2016 5:31 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 9:21 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158201.D Vial: 13
Acq On : 22 Jun 2016 5:59 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 09:21:43 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.74	152	204332	40.00 ppm	-0.05
24) Naphthalene-d8	5.66	136	818693	40.00 ppm	-0.06
47) Acenaphthene-d10	7.09	164	435951	40.00 ppm	-0.08
69) Phenanthrene-d10	8.99	188	620934	40.00 ppm	-0.11
83) Chrysene-d12	14.28	240	450102	40.00 ppm	-0.13
92) Perylene-d12	17.33	264	371863	40.00 ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.74	152	204332	40.00 ppm	-0.18
112) Naphthalene-d8A	5.66	136	818693	40.00 ppm	-0.19
121) Acenaphthene-d10A	7.09	164	435951	40.00 ppm	-0.25
132) Phenanthrene-d10A	8.99	188	620934	40.00 ppm	-0.33
147) Chrysene-d12A	14.28	240	450102	40.00 ppm	-0.41
155) Perylene-d12A	17.33	264	371863	40.00 ppm	-0.42
159) 1,4-Dichlorobenzene-d4b	4.74	152	204332	40.00 ppm	-0.05
161) Naphthalene-d8b	5.66	136	818693	40.00 ppm	-0.06
163) Acenaphthene-d10b	7.09	164	435951	40.00 ppm	-0.08
165) Phenanthrene-d10b	8.99	188	620934	40.00 ppm	-0.11
167) Chrysene-d12b	14.28	240	450102	40.00 ppm	-0.13
169) 1,4-Dichlorobenzene-d4c	4.74	152	204332	40.00 ppm	0.00
171) Naphthalene-d8c	5.66	136	818693	40.00 ppm	0.00
176) Chrysene-d12c	14.28	240	450102	40.00 ppm	0.00
178) Naphthalene-d8d	5.66	136	818693	40.00 ppm	-0.20
180) Chrysene-d12B	14.28	240	450102	40.00 ppm	-0.35

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%		

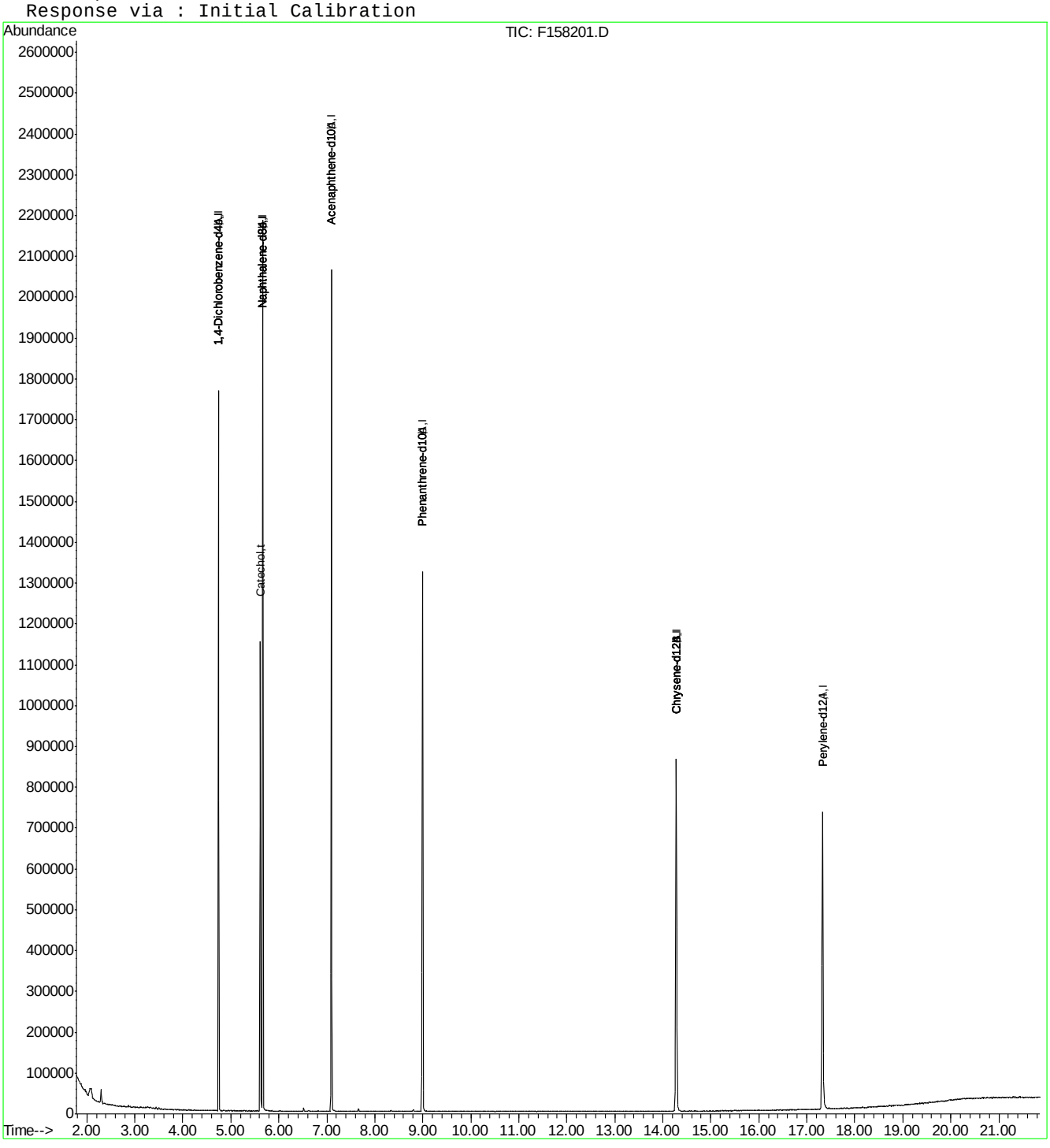
Target Compounds					Qvalue
174) Catechol	5.62	110	324923	48.32 ppm	# 22

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6660\F158201.D Vial: 13
Acq On : 22 Jun 2016 5:59 am Operator: juliusj
Sample : icv6660-50 Inst : MSF
Misc : op93756,ef6660 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 22 9:22 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 22 09:18:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158255.D Vial: 2
Acq On : 23 Jun 2016 10:43 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 11:05:37 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	139229	40.00	ppm	-0.05
24) Naphthalene-d8	5.65	136	521392	40.00	ppm	-0.01
47) Acenaphthene-d10	7.07	164	303712	40.00	ppm	-0.09
69) Phenanthrene-d10	8.97	188	480035	40.00	ppm	-0.11
83) Chrysene-d12	14.25	240	421639	40.00	ppm	-0.13
92) Perylene-d12	17.29	264	383993	40.00	ppm	-0.07
102) 1,4-Dichlorobenzene-d4b	4.73	152	139229	40.00	ppm	-0.05
104) Naphthalene-d8b	5.65	136	521392	40.00	ppm	-0.06
106) Acenaphthene-d10b	7.07	164	303712	40.00	ppm	-0.09
108) Phenanthrene-d10b	8.97	188	480035	40.00	ppm	-0.11
110) Chrysene-d12b	14.25	240	421639	40.00	ppm	-0.13
System Monitoring Compounds						
5) 2-Fluorophenol	3.76	112	118561	22.87	ppm	-0.13
Spiked Amount 50.000			Recovery = 45.74%			
8) Phenol-d5	4.49	99	145072	21.62	ppm	-0.02
Spiked Amount 50.000			Recovery = 43.24%			
25) Nitrobenzene-d5	5.13	82	120979	23.19	ppm	-0.03
Spiked Amount 50.000			Recovery = 46.38%			
51) 2-Fluorobiphenyl	6.45	172	248140	25.97	ppm	-0.07
Spiked Amount 50.000			Recovery = 51.94%			
73) 2,4,6-Tribromophenol	7.98	330	26796	30.90	ppm	-0.09
Spiked Amount 50.000			Recovery = 61.80%			
85) Terphenyl-d14	12.03	244	215759	25.68	ppm	-0.15
Spiked Amount 50.000			Recovery = 51.36%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.29	88	70770	27.69	ppm	93
3) Pyridine	2.63	79	132187	21.08	ppm	84
4) N-Nitrosodimethylamine	2.59	42	37286	23.67	ppm #	77
6) Indene	4.92	116	215982	22.17	ppm	99
7) Cumene	4.13	105	287042	21.64	ppm	97
9) Phenol	4.49	94	170092	22.45	ppm	71
10) Aniline	4.49	93	163819	17.87	ppm	49
11) bis(2-Chloroethyl)ether	4.53	93	115784	20.74	ppm	98
12) 2-Chlorophenol	4.58	128	131476	23.77	ppm	95
13) Decane	4.60	43	109742	25.48	ppm	91
14) 1,3-Dichlorobenzene	4.69	146	142347	23.45	ppm	81
15) 1,4-Dichlorobenzene	4.74	146	144998	23.49	ppm	96
16) Benzyl alcohol	4.84	108	79325	21.86	ppm	93
17) 1,2-Dichlorobenzene	4.85	146	137773	23.82	ppm	98
18) Acetophenone	5.02	105	165947	21.25	ppm #	71
19) 2-Methylphenol	4.93	108	114922	21.96	ppm	97
20) 2,2'-oxybis(1-Chloropropan	4.93	121	40306	21.81	ppm #	45
21) 3&4-Methylphenol	5.04	108	122962	22.33	ppm	100
22) n-Nitroso-di-n-propylamine	5.02	70	83486	20.27	ppm	88
23) Hexachloroethane	5.10	201	44768	27.03	ppm	86
26) Nitrobenzene	5.15	77	128263	22.43	ppm	90
27) Quinoline	5.90	129	251546	24.52	ppm	96
28) Isophorone	5.32	82	217202	22.61	ppm	96

(#) = qualifier out of range (m) = manual integration
F158255.D MF6644.M Thu Jun 23 15:25:35 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158255.D Vial: 2
Acq On : 23 Jun 2016 10:43 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 11:05:37 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 2-Nitrophenol	5.37	139	68069	30.24 ppm		87
30) 2,4-Dimethylphenol	5.41	107	109197	22.41 ppm		94
31) Benzoic acid	5.48	105	85915	25.30 ppm		95
32) bis(2-Chloroethoxy)methane	5.47	93	135448	22.34 ppm		99
33) 2,4-Dichlorophenol	5.56	162	104644	28.91 ppm		95
34) 2,6-Dichlorophenol	5.71	162	104388	28.92 ppm		97
35) 1,3,5-Trichlorobenzene	5.38	180	115640	27.56 ppm		96
36) 1,2,4-Trichlorobenzene	5.60	180	109431	27.15 ppm		99
37) 1,2,3-Trichlorobenzene	5.76	180	109776	27.39 ppm		97
38) Naphthalene	5.66	128	366427	24.21 ppm		99
39) 4-Chloroaniline	5.71	127	140353	22.83 ppm		97
40) 2,3-Dichloroaniline	6.40	161	123811	26.79 ppm		96
41) Caprolactam	5.95	55	45314	27.07 ppm		89
42) Hexachlorobutadiene	5.75	225	51512	28.55 ppm		98
43) 4-Chloro-3-methylphenol	6.06	107	101675	24.46 ppm		96
44) 2-Methylnaphthalene	6.17	141	202981	25.34 ppm		99
45) 1-Methylnaphthalene	6.25	141	213861	25.28 ppm		98
46) Dimethylnaphthalene	6.68	156	217270	26.24 ppm		98
48) Hexachlorocyclopentadiene	6.28	237	115057	61.53 ppm		98
49) 2,4,6-Trichlorophenol	6.40	196	68264	30.53 ppm		99
50) 2,4,5-Trichlorophenol	6.44	196	72908	28.73 ppm		97
52) 2-Chloronaphthalene	6.56	162	226197	25.51 ppm		96
53) Biphenyl	6.54	154	294477	25.19 ppm		100
54) 2-Nitroaniline	6.65	65	64358	25.87 ppm		90
55) Dimethylphthalate	6.81	163	244318	25.25 ppm		99
56) Acenaphthylene	6.94	152	367774	25.86 ppm		99
57) 2,6-Dinitrotoluene	6.87	165	55064	28.74 ppm		94
58) 3-Nitroaniline	7.04	138	65024	26.45 ppm		83
59) Acenaphthene	7.11	153	228425	25.00 ppm		100
60) 2,4-Dinitrophenol	7.14	184	52111	51.00 ppm		65
61) 4-Nitrophenol	7.23	109	28212	23.35 ppm	#	77
62) Dibenzofuran	7.29	168	310313	25.16 ppm		96
63) 2,4-Dinitrotoluene	7.27	165	75894	29.09 ppm		88
64) 2,3,4,6-Tetrachlorophenol	7.43	232	54414	31.81 ppm		91
65) Diethylphthalate	7.54	149	234194	25.28 ppm		98
66) Fluorene	7.68	166	247878	25.81 ppm		98
67) 4-Chlorophenyl-phenylether	7.68	204	106309	26.71 ppm		88
68) 4-Nitroaniline	7.70	138	65956	25.85 ppm		89
70) 4,6-Dinitro-2-methylphenol	7.73	198	39828	25.15 ppm		90
71) n-Nitrosodiphenylamine	7.82	169	168799	25.49 ppm		99
72) 1,2-Diphenylhydrazine	7.87	77	240989	20.57 ppm		96
74) 4-Bromophenyl-phenylether	8.31	248	57540	27.01 ppm		89
75) Hexachlorobenzene	8.38	284	58760	26.05 ppm		90
76) Pentachlorophenol	8.69	266	75623	58.69 ppm		98
77) Phenanthrene	9.01	178	358854	24.46 ppm		99
78) Anthracene	9.09	178	359690	25.30 ppm		99
79) Carbazole	9.38	167	339240	25.49 ppm		97
80) Di-n-butylphthalate	10.07	149	396719	26.80 ppm		99
81) Fluoranthene	11.16	202	347404	26.66 ppm		92

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158255.D Vial: 2
Acq On : 23 Jun 2016 10:43 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 11:05:37 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

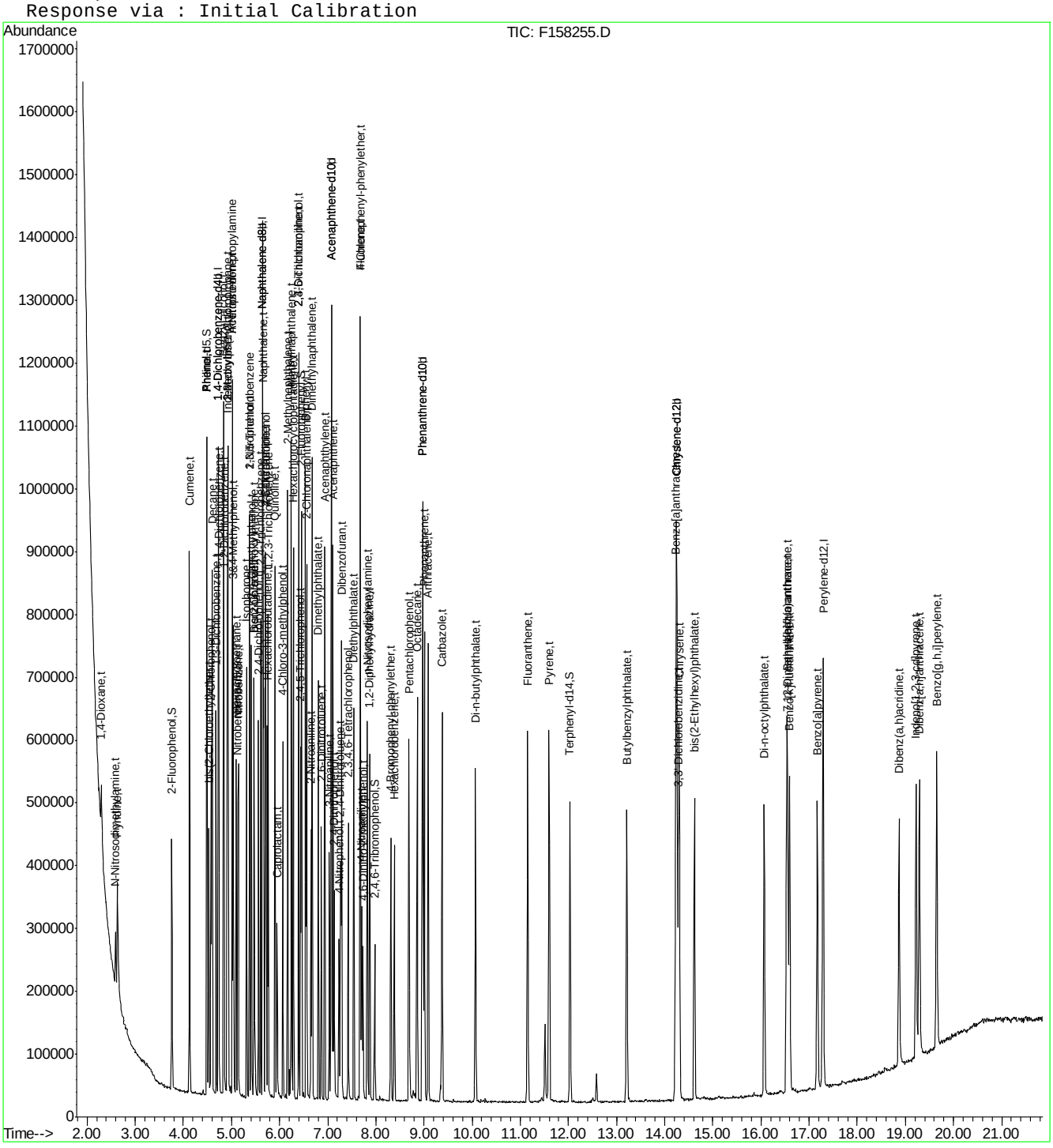
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.86	57	142799	26.53	ppm	90
84)	Pyrene	11.60	202	373579	25.13	ppm	89
86)	Butylbenzylphthalate	13.21	149	171211	26.21	ppm	91
88)	Benzo[a]anthracene	14.23	228	308659	25.13	ppm	100
89)	3,3'-Dichlorobenzidine	14.28	252	113878	27.45	ppm	97
90)	Chrysene	14.31	228	316985	24.09	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.62	149	237184	23.87	ppm	97
93)	Di-n-octylphthalate	16.07	149	409325	25.52	ppm	98
94)	Benzo[b]fluoranthene	16.53	252	317616	26.95	ppm	98
95)	Benzo[k]fluoranthene	16.59	252	313755	26.37	ppm	97
96)	Benzo[a]pyrene	17.18	252	283421	28.02	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.23	276	266630	28.76	ppm	99
98)	Dibenz(a,h)acridine	18.87	279	235912	29.28	ppm	99
99)	Dibenz[a,h]anthracene	19.29	278	270975	28.44	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.56	256	143007	27.49	ppm	96
101)	Benzo[g,h,i]perylene	19.65	276	295968	27.89	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158255.D Vial: 2
Acq On : 23 Jun 2016 10:43 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 11:09 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158256.D Vial: 3
Acq On : 23 Jun 2016 11:12 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 11:34:28 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	140021	40.00	ppm	-0.06
24) Naphthalene-d8	5.65	136	535128	40.00	ppm	-0.01
47) Acenaphthene-d10	7.07	164	314986	40.00	ppm	-0.09
69) Phenanthrene-d10	8.97	188	513111	40.00	ppm	-0.11
83) Chrysene-d12	14.24	240	440124	40.00	ppm	-0.14
92) Perylene-d12	17.29	264	405053	40.00	ppm	-0.07
102) 1,4-Dichlorobenzene-d4b	4.72	152	140021	40.00	ppm	-0.06
104) Naphthalene-d8b	5.65	136	535128	40.00	ppm	-0.06
106) Acenaphthene-d10b	7.07	164	314986	40.00	ppm	-0.09
108) Phenanthrene-d10b	8.97	188	513111	40.00	ppm	-0.11
110) Chrysene-d12b	14.24	240	440124	40.00	ppm	-0.14

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	4.40	105	88684	23.09	ppm	94
105) Hydroquinone	5.96	110	123186	30.42	ppm	97
107) 1,2,4,5-Tetrachlorobenzene	6.29	216	92890	28.11	ppm	98
109) Atrazine	8.57	200	57652	29.91	ppm	98
111) Benzidine	11.51	184	135757	27.22	ppm	99

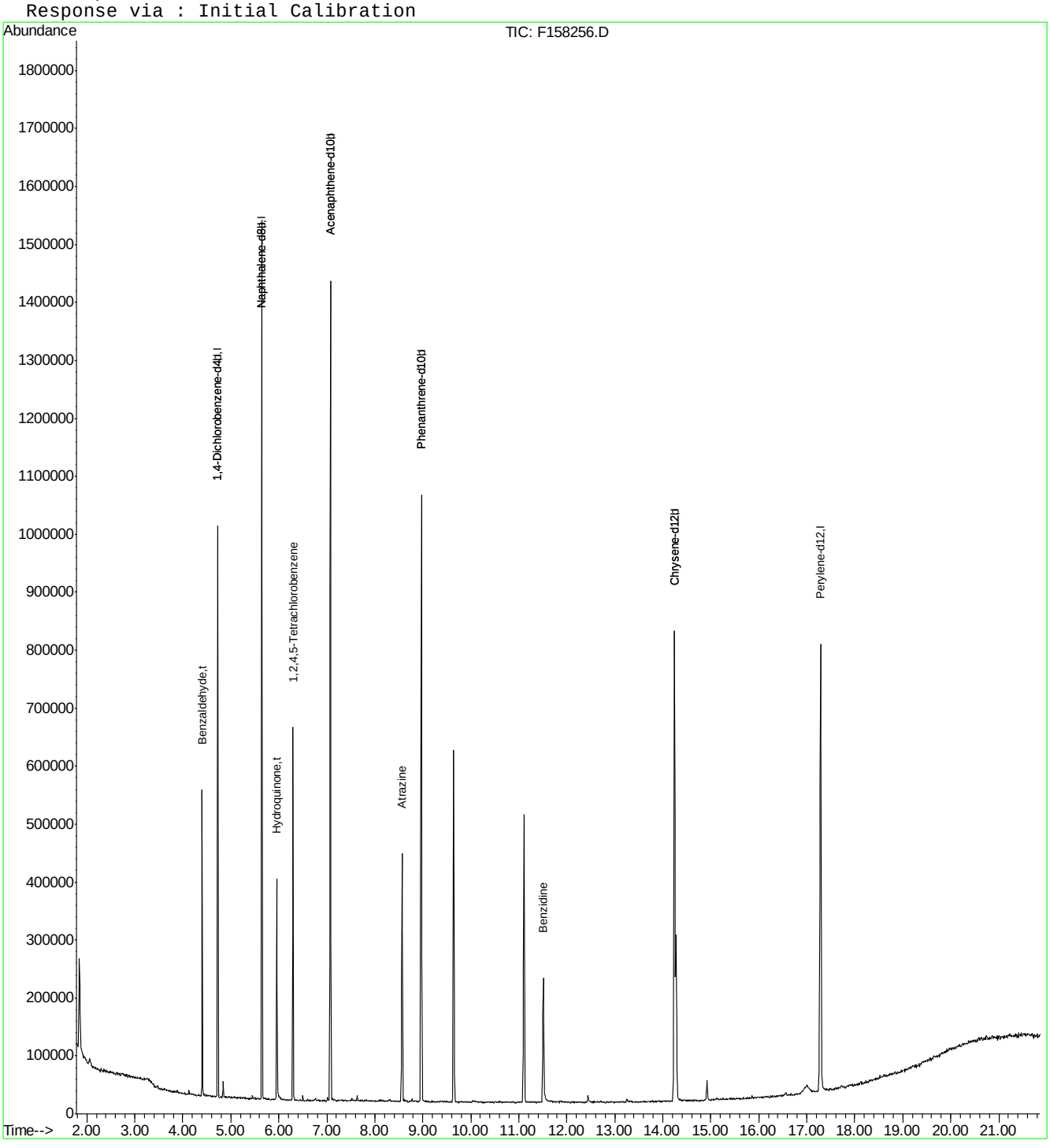
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158256.D Vial: 3
Acq On : 23 Jun 2016 11:12 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 11:45 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 08:14:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/24/16 15:12

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:27:14 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	139634	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	538677	40.00	ppm	0.00
47) Acenaphthene-d10	7.08	164	319518	40.00	ppm	0.00
69) Phenanthrene-d10	8.98	188	508857	40.00	ppm	0.00
83) Chrysene-d12	14.25	240	449319	40.00	ppm	0.00
92) Perylene-d12	17.29	264	399331	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.73	152	139634	40.00	ppm	0.00
112) Naphthalene-d8A	5.65	136	538677	40.00	ppm	0.00
121) Acenaphthene-d10A	7.08	164	319518	40.00	ppm	0.00
132) Phenanthrene-d10A	8.98	188	508857	40.00	ppm	0.00
147) Chrysene-d12A	14.25	240	449319	40.00	ppm	0.00
155) Perylene-d12A	17.29	264	399331	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.73	152	139634	40.00	ppm	0.00
161) Naphthalene-d8b	5.65	136	538677	40.00	ppm	0.00
163) Acenaphthene-d10b	7.08	164	319518	40.00	ppm	0.00
165) Phenanthrene-d10b	8.98	188	508857	40.00	ppm	0.00
167) Chrysene-d12b	14.25	240	449319	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.73	152	139634	40.00	ppm	0.00
171) Naphthalene-d8c	5.65	136	538677	40.00	ppm	0.00
176) Chrysene-d12c	14.25	240	449319	40.00	ppm	0.00
178) Naphthalene-d8d	5.65	136	538677	40.00	ppm	0.00
180) Chrysene-d12B	14.25	240	449319	40.00	ppm	-0.01

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
103) 2-Picoline	3.26	93	132636	20.08	ppm		99
104) Pentachloroethane	4.52	167	44017	22.31	ppm		89
105) Methyl methanesulfonate	3.61	80	59726	19.69	ppm		98
106) N-Nitrosodiethylamine	3.92	102	55825	19.90	ppm		98
107) N-Nitrosomethylethylamine	3.35	42	44273	27.27	ppm		92
108) Ethyl methanesulfonate	4.15	79	85539	19.95	ppm		99
109) N-Nitrosopyrrolidine	5.01	41	38253m	26.73	ppm		
110) N-Nitrosomorpholine	5.04	56	53532	23.93	ppm		99
111) o-Toluidine	5.05	106	173230	19.53	ppm	#	39
113) O,O,O-Triethyl phosphoroth	5.44	198	52174	24.45	ppm		87
114) N-Nitrosopiperidine	5.26	42	58343	29.09	ppm		86
115) A,A-Dimethylphenethylamine	5.75	58	228403m	27.00	ppm		

(#) = qualifier out of range (m) = manual integration
F158257A.D MF6644AP9.M Thu Jun 23 15:29:01 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:27:14 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.73	213	58379	23.44	ppm		98
117)	p-Phenylenediamine	5.96	108	15108	7.02	ppm		94
118)	N-Nitrosodi-n-butylamine	5.94	84	71685	21.39	ppm		93
119)	Safrole	6.10	162	83798	23.15	ppm		94
120)	Isosafrole	6.51	162	65222	21.63	ppm		99
122)	Thionazin	7.63	143	26910	23.03	ppm		96
123)	Tetraethyl dithiopyrophosp	8.04	322	25408	24.51	ppm		100
124)	Phorate	8.22	75	148111	24.00	ppm		100
125)	Phenacetin	8.24	108	113124	24.08	ppm		99
126)	1,4-Naphthoquinone	6.72	158	67642	23.55	ppm		90
127)	m-Dinitrobenzene	6.84	168	34473	25.80	ppm		98
128)	Pentachlorobenzene	7.24	250	75602	23.74	ppm		99
129)	1-Naphthylamine	7.38	143	155829	20.64	ppm		97
130)	2-Naphthylamine	7.46	143	178724	19.54	ppm		97
131)	5-Nitro-o-toluidine	7.69	152	66690	25.49	ppm		99
133)	Disulfoton	9.01	88	112925	21.40	ppm		100
134)	Dinoseb	8.99	211	42276	26.33	ppm		97
135)	Dimethoate	8.46	87	94935	24.70	ppm		98
136)	4-Aminobiphenyl	8.70	169	167629	34.25	ppm		97
137)	Methyl parathion	9.64	125	57334	24.20	ppm		97
138)	Parathion	10.39	109	44834	22.83	ppm		95
139)	Diphenylamine	7.83	169	341142	43.24	ppm		100
140)	Isodrin	10.86	193	34564	22.57	ppm		98
141)	Diallate	8.21	86	87661	105.61	ppm		96
142)	Pentachloronitrobenzene	8.70	295	19552	47.70	ppm		96
143)	Pronamide	8.81	173	93415	23.83	ppm		98
144)	4-Nitroquinoline 1-oxide	10.39	190	109906	113.53	ppm		95
145)	Methapyriline	10.59	58	101782	30.72	ppm		98
146)	sym-Trinitrobenzene	8.17	213	20342	22.44	ppm	#	31
148)	Aramite	12.27	185	20855	50.80	ppm		99
149)	p-(Dimethylamine)azobenzen	12.36	120	99368	21.04	ppm		92
150)	Kepone	13.06	272	87607	110.54	ppm		98
151)	Famphur	13.05	218	566878	145.63	ppm		98
152)	2-Acetylaminofluorene	13.64	181	130729	24.43	ppm		97
153)	3,3'-Dimethylbenzidine	13.11	212	93528	22.89	ppm		97
154)	Chlorobenzilate	12.50	251	79387	25.30	ppm		96
156)	4,4-Methylene-bis-(2-chlor	14.32	266	27799	25.37	ppm		99
157)	3-Methylcholanthrene	17.89	268	132535	23.95	ppm		96
158)	Hexachlorophene	17.05	196	20561	50.32	ppm		94

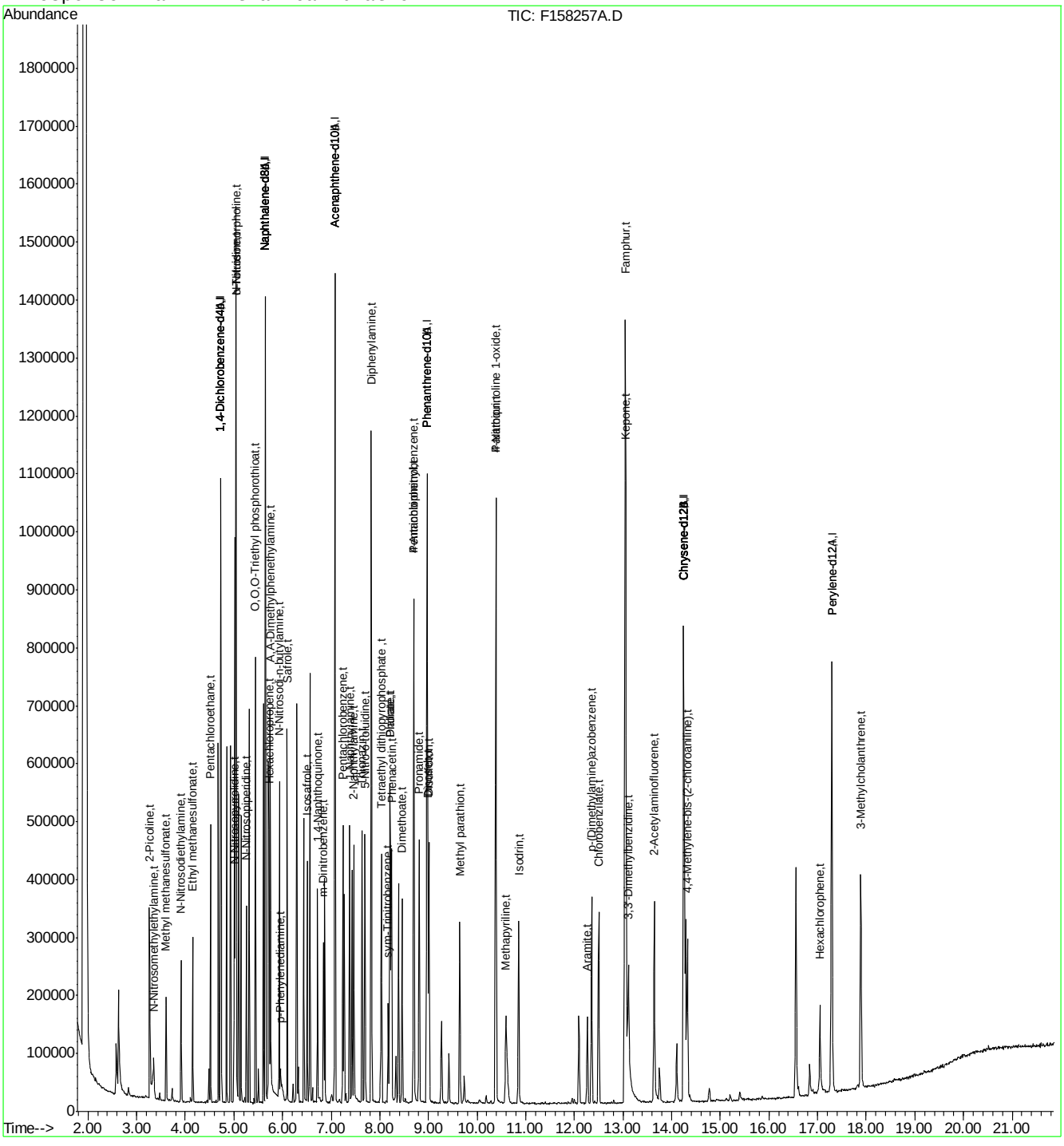
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:28 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Initial Calibration



F158257A.D MF6644AP9.M Thu Jun 23 15:29:01 2016 RT1 Page 3

SGS ACCUTEST JC22206

Manual Integration Approval Summary

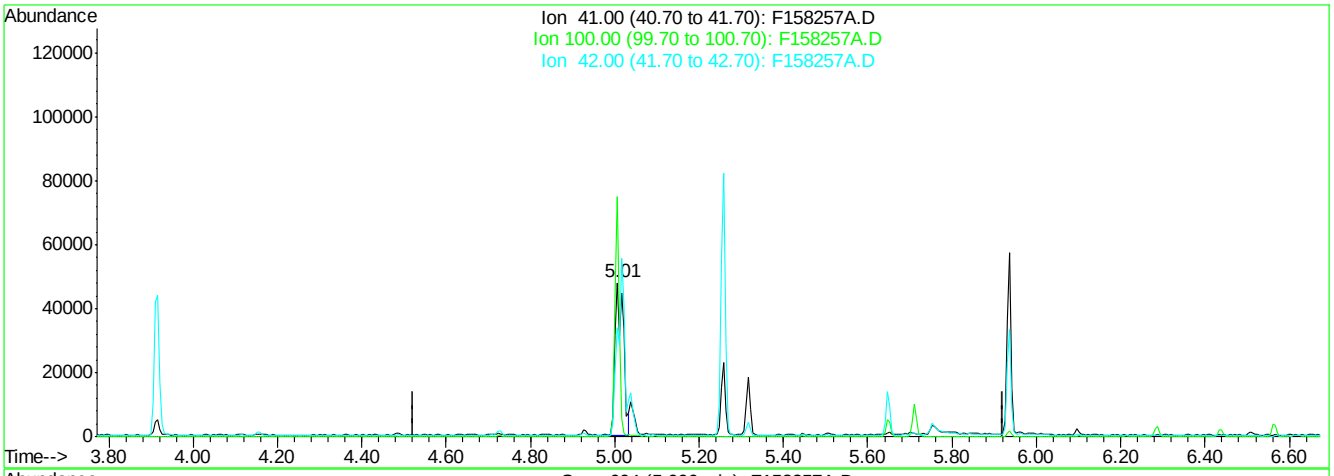
Sample Number:	EF6662-CC6647	**Method:**	SW846 8270D
Lab FileID:	F158257A.D	**Analyst approved:**	06/23/16 15:45 Ashley Dye
Injection Time:	06/23/16 12:32	**Supervisor approved:**	06/24/16 15:12 Kristi Schollenberger

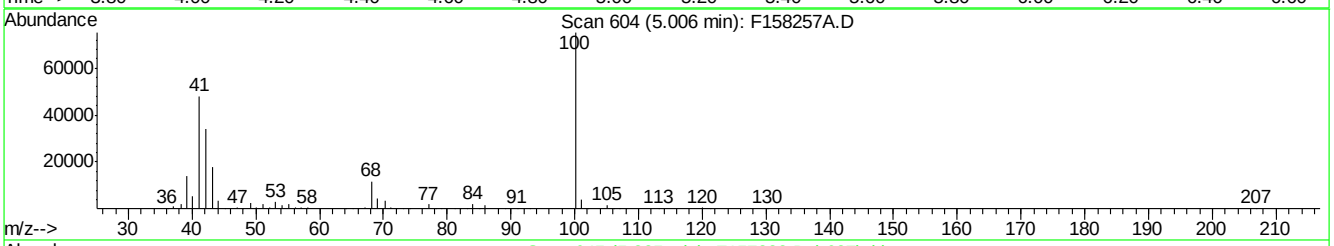
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.01	Poor instrument integration
A,A-Dimethylphenethylamine	122-09-8		5.75	Poor instrument integration

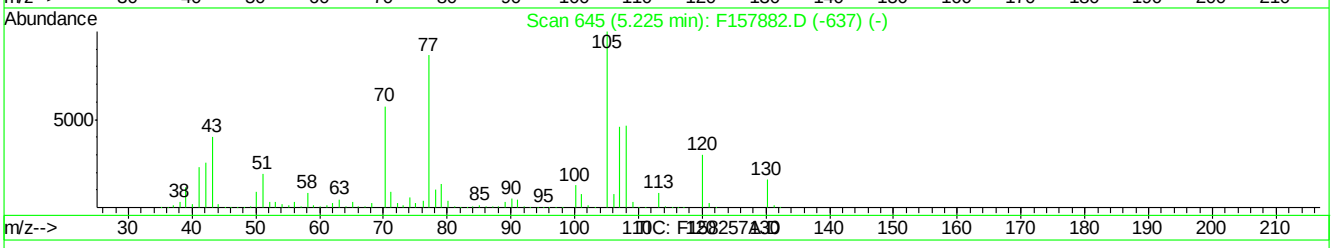
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:27 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.01min 46.53ppm

response 66574

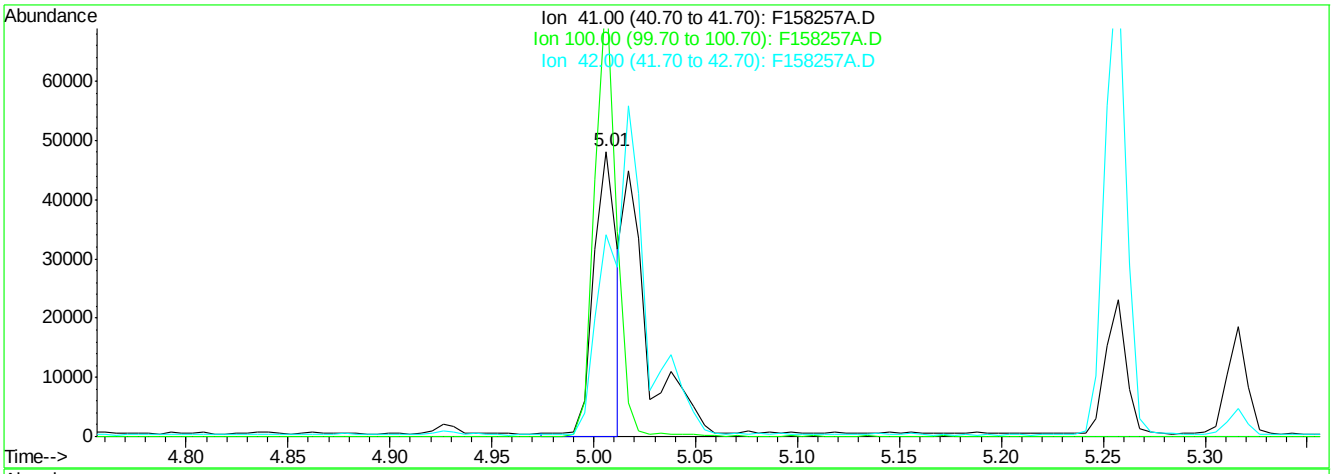
Ion	Exp%	Act%
41.00	100	100
100.00	130.00	169.22#
42.00	79.80	64.20
0.00	0.00	0.00

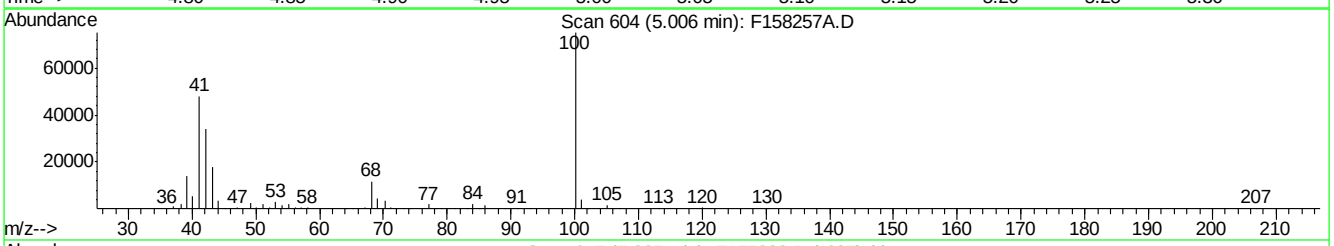
F158257A.D MF6644AP9.M Thu Jun 23 15:27:49 2016 RT1

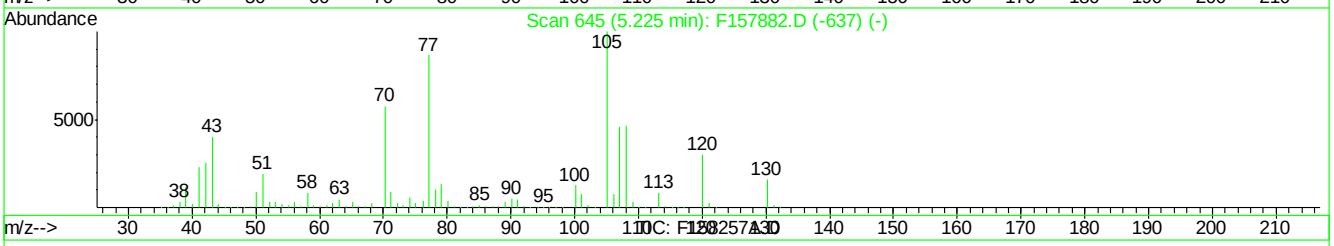
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:27 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.01min 26.73ppm m

response 38253

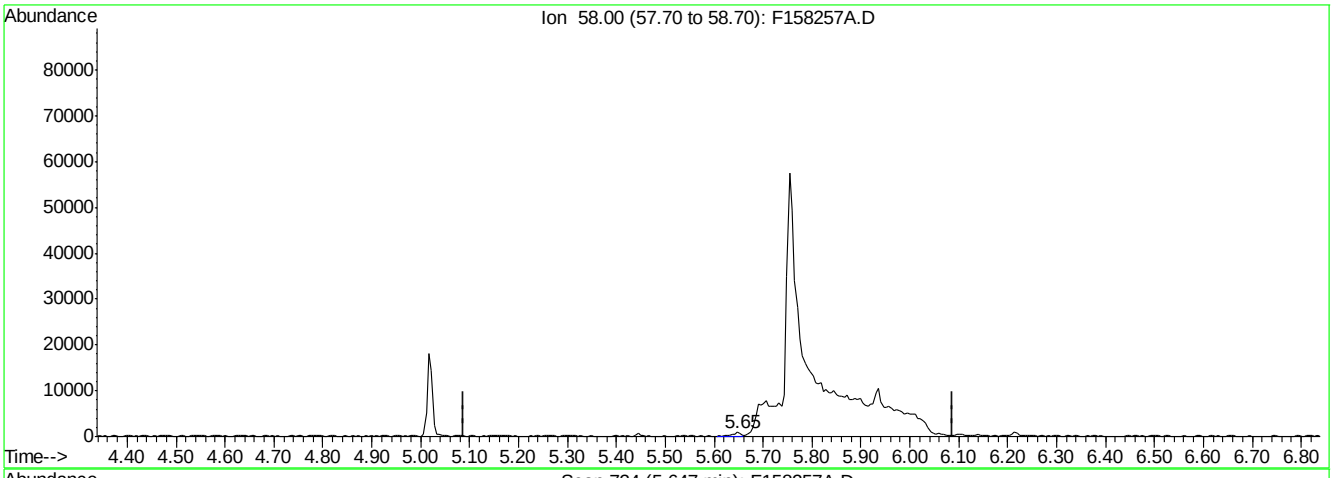
Ion	Exp%	Act%
41.00	100	100
100.00	130.00	156.28
42.00	79.80	70.99
0.00	0.00	0.00

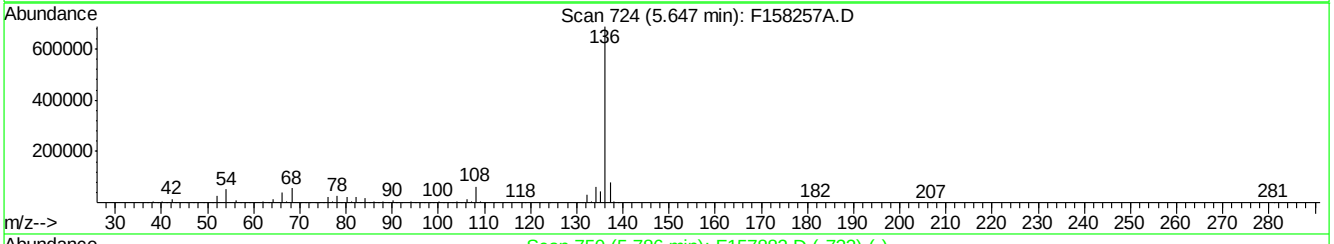
F158257A.D MF6644AP9.M Thu Jun 23 15:28:00 2016 RT1

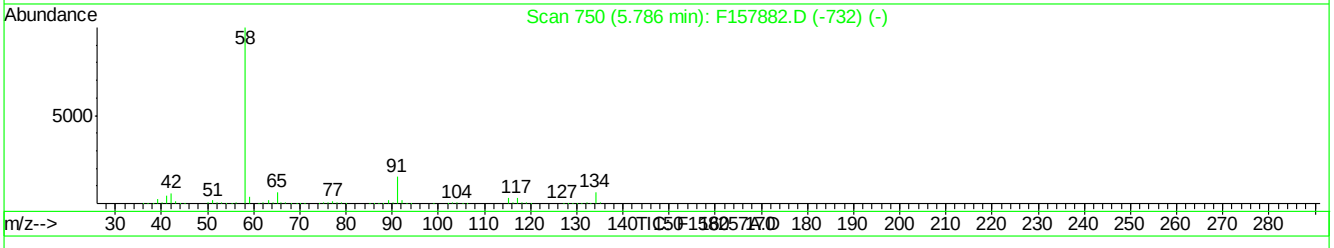
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:27 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.65min 0.14ppm

response 1194

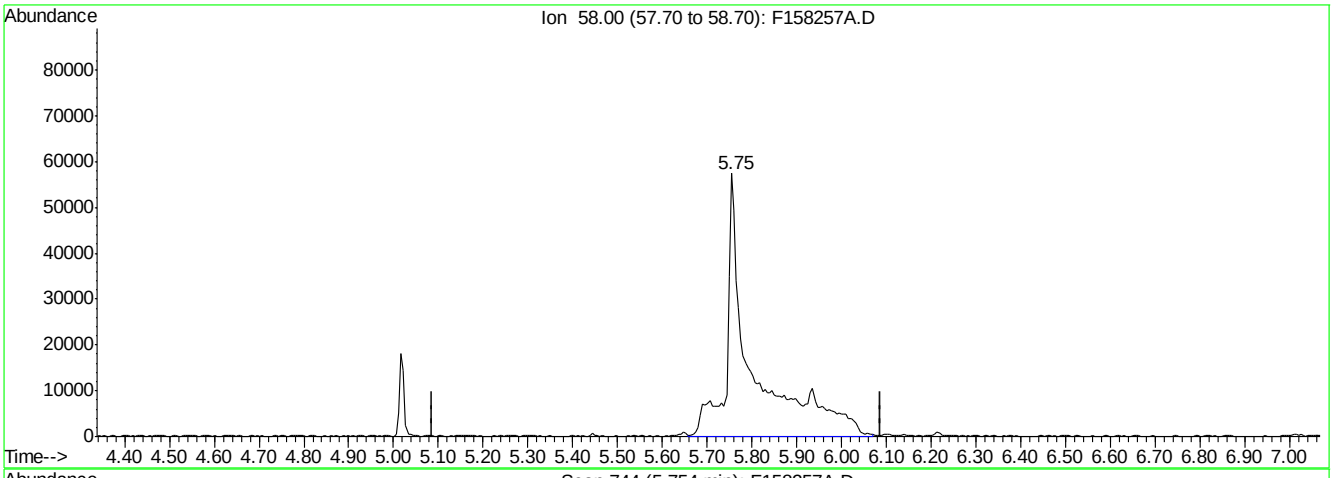
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

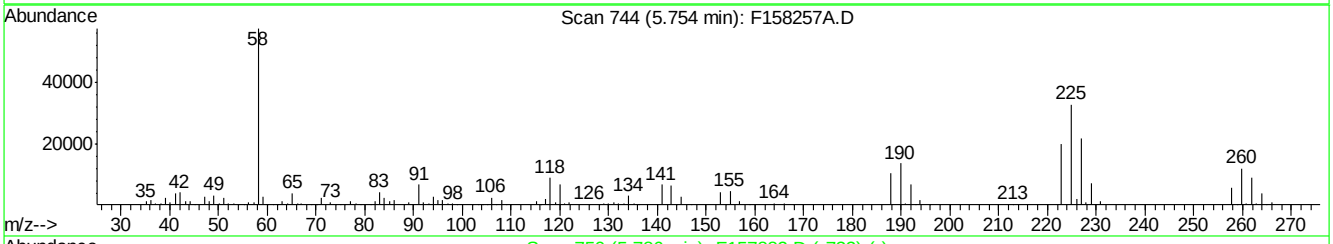
F158257A.D MF6644AP9.M Thu Jun 23 15:28:06 2016 RT1

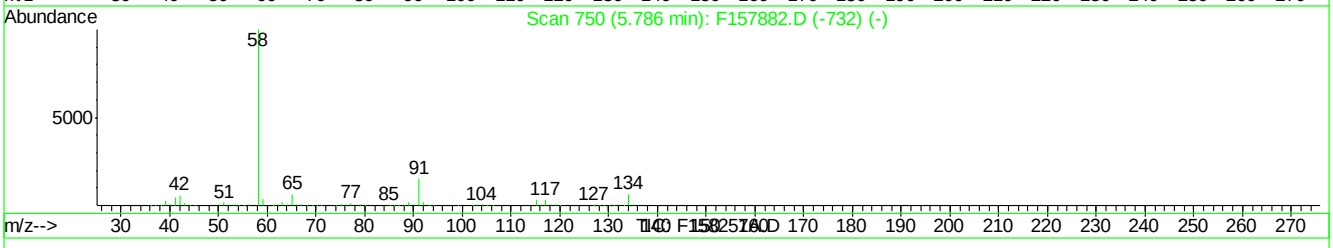
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158257A.D Vial: 4
Acq On : 23 Jun 2016 12:32 pm Operator: brittanp
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:28 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.75min 27.00ppm m

response 228403

Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

F158257A.D MF6644AP9.M Thu Jun 23 15:28:16 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158258.D Vial: 5
Acq On : 23 Jun 2016 1:01 pm Operator: brittanp
Sample : cc6660-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:29:05 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	92675	40.00	ppm	-0.01
24) Naphthalene-d8	5.65	136	350941	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	202514	40.00	ppm	-0.01
69) Phenanthrene-d10	8.96	188	312354	40.00	ppm	-0.01
83) Chrysene-d12	14.24	240	273591	40.00	ppm	-0.01
92) Perylene-d12	17.28	264	244622	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.72	152	92675	40.00	ppm	-0.01
112) Naphthalene-d8A	5.65	136	350941	40.00	ppm	0.00
121) Acenaphthene-d10A	7.07	164	202514	40.00	ppm	-0.01
132) Phenanthrene-d10A	8.96	188	312354	40.00	ppm	-0.01
147) Chrysene-d12A	14.24	240	273591	40.00	ppm	-0.01
155) Perylene-d12A	17.28	264	244622	40.00	ppm	-0.02
159) 1,4-Dichlorobenzene-d4b	4.72	152	92675	40.00	ppm	-0.01
161) Naphthalene-d8b	5.65	136	350941	40.00	ppm	0.00
163) Acenaphthene-d10b	7.07	164	202514	40.00	ppm	-0.01
165) Phenanthrene-d10b	8.96	188	312354	40.00	ppm	-0.01
167) Chrysene-d12b	14.24	240	273591	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.72	152	92675	40.00	ppm	-0.01
171) Naphthalene-d8c	5.65	136	350941	40.00	ppm	0.00
176) Chrysene-d12c	14.24	240	273591	40.00	ppm	-0.01
178) Naphthalene-d8d	5.65	136	350941	40.00	ppm	0.00
180) Chrysene-d12B	14.24	240	273591	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	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
170) m-Toluidine	5.08	106	137598	24.57	ppm	100
172) 2-chloroaniline	5.35	127	103711	25.61	ppm	99
173) 3-chloroaniline	5.69	127	98255	26.62	ppm	97
174) Catechol	5.64	110	67414	23.39	ppm	92
175) 1-chloro-2-nitrobenzene	5.90	75	43759	27.62	ppm	89
177) Bis(2-Ethylhexyl)adipate	13.51	129	86053	22.53	ppm	100

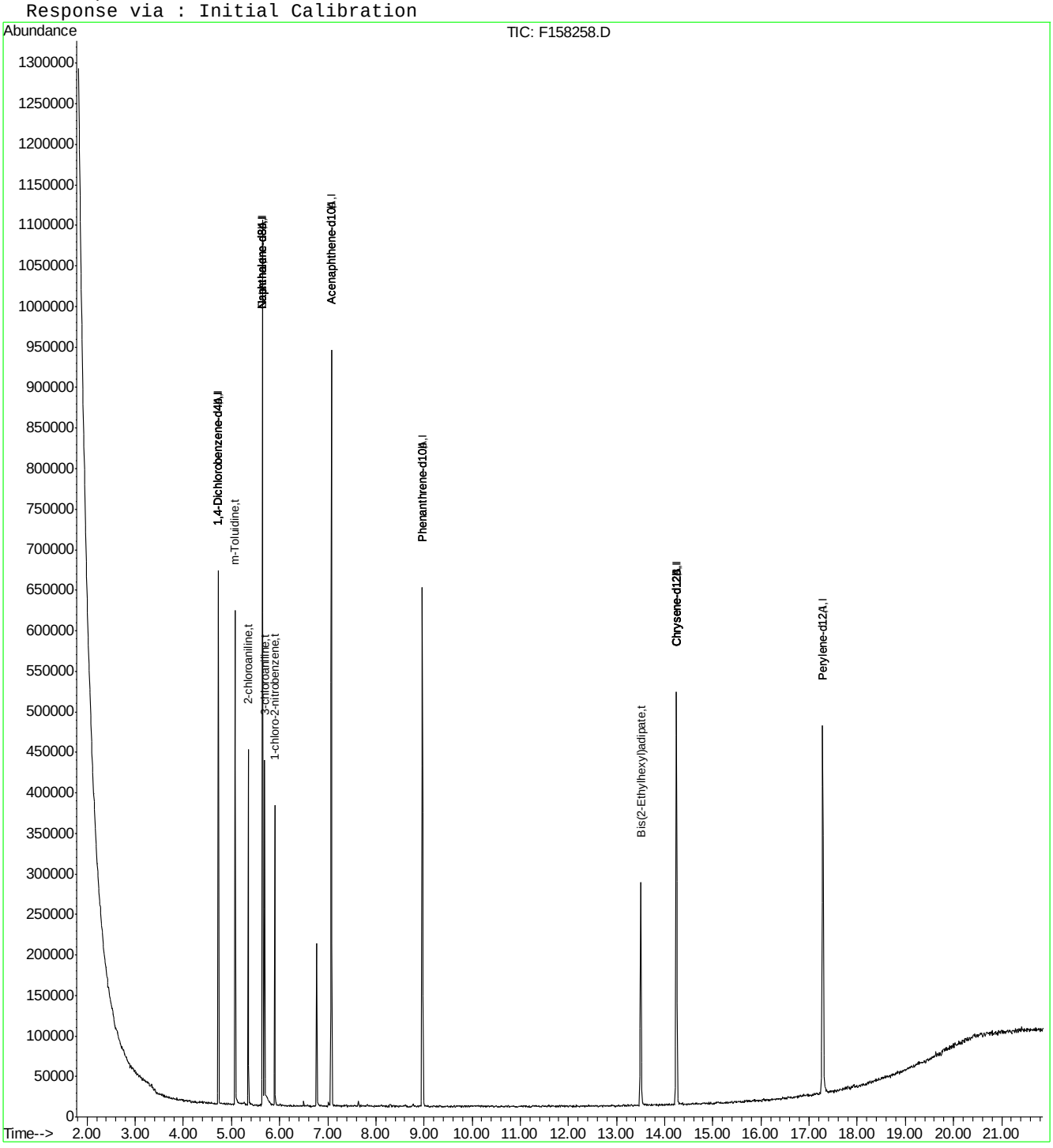
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158258.D Vial: 5
Acq On : 23 Jun 2016 1:01 pm Operator: brittanp
Sample : cc6660-25 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:29 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158259.D Vial: 6
Acq On : 23 Jun 2016 1:30 pm Operator: brittanp
Sample : cc6644-5 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:30:21 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 15:30:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	111301	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	421827	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	237720	40.00	ppm	-0.01
69) Phenanthrene-d10	8.96	188	381035	40.00	ppm	-0.01
83) Chrysene-d12	14.24	240	329326	40.00	ppm	-0.01
92) Perylene-d12	17.28	264	304088	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.73	152	111301	40.00	ppm	0.00
112) Naphthalene-d8A	5.65	136	421827	40.00	ppm	0.00
121) Acenaphthene-d10A	7.07	164	237720	40.00	ppm	-0.01
132) Phenanthrene-d10A	8.96	188	381035	40.00	ppm	-0.01
147) Chrysene-d12A	14.24	240	329326	40.00	ppm	-0.01
155) Perylene-d12A	17.28	264	304088	40.00	ppm	-0.02
159) 1,4-Dichlorobenzene-d4b	4.73	152	111301	40.00	ppm	0.00
161) Naphthalene-d8b	5.65	136	421827	40.00	ppm	0.00
163) Acenaphthene-d10b	7.07	164	237720	40.00	ppm	-0.01
165) Phenanthrene-d10b	8.96	188	381035	40.00	ppm	-0.01
167) Chrysene-d12b	14.24	240	329326	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.73	152	111301	40.00	ppm	0.00
171) Naphthalene-d8c	5.65	136	421827	40.00	ppm	0.00
176) Chrysene-d12c	14.24	240	329326	40.00	ppm	-0.01
178) Naphthalene-d8d	5.65	136	421827	40.00	ppm	0.00
180) Chrysene-d12B	14.24	240	329326	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	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%			

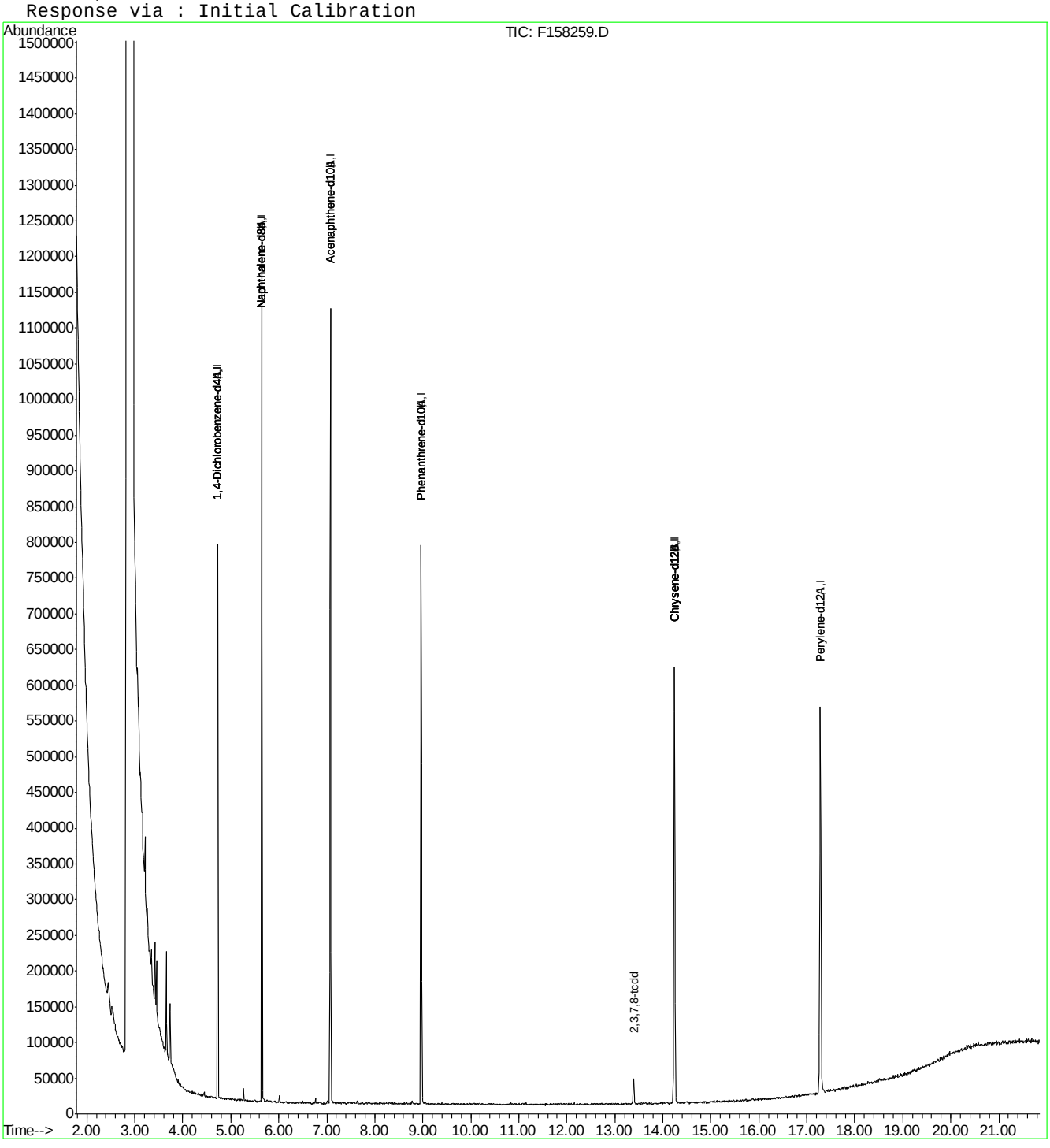
Target Compounds						Qvalue
181) 2,3,7,8-tcdd	13.39	320	4660	5.00	ppm	95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6662\F158259.D Vial: 6
Acq On : 23 Jun 2016 1:30 pm Operator: brittanp
Sample : cc6644-5 Inst : MSF
Misc : op93756,ef6662 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 23 15:30 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 15:30:18 2016
Response via : Initial Calibration



F158259.D MF6644AP9.M Thu Jun 23 15:30:52 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158290.D Vial: 2
Acq On : 24 Jun 2016 7:56 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:02:24 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:02:23 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	248187	40.00	ppm	0.00
24) Naphthalene-d8	5.64	136	965202	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	572845	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	918241	40.00	ppm	0.00
83) Chrysene-d12	14.25	240	800457	40.00	ppm	0.00
92) Perylene-d12	17.29	264	773041	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.72	152	248187	40.00	ppm	0.00
104) Naphthalene-d8b	5.64	136	965202	40.00	ppm	0.00
106) Acenaphthene-d10b	7.07	164	572845	40.00	ppm	0.00
108) Phenanthrene-d10b	8.96	188	918241	40.00	ppm	0.00
110) Chrysene-d12b	14.25	240	800457	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.76	112	439719	47.58	ppm	-0.08
Spiked Amount 50.000			Recovery = 95.16%			
8) Phenol-d5	4.49	99	502659	42.02	ppm	0.04
Spiked Amount 50.000			Recovery = 84.04%			
25) Nitrobenzene-d5	5.13	82	431944	44.74	ppm	-0.02
Spiked Amount 50.000			Recovery = 89.48%			
51) 2-Fluorobiphenyl	6.45	172	819068	45.44	ppm	0.01
Spiked Amount 50.000			Recovery = 90.88%			
73) 2,4,6-Tribromophenol	7.97	330	101024	60.89	ppm	0.00
Spiked Amount 50.000			Recovery = 121.78%			
85) Terphenyl-d14	12.03	244	798278	50.06	ppm	-0.04
Spiked Amount 50.000			Recovery = 100.12%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.29	88	183942	40.37	ppm		94
3) Pyridine	2.62	79	472998	42.31	ppm		88
4) N-Nitrosodimethylamine	2.58	42	148647	52.93	ppm	#	80
6) Indene	4.91	116	711853	40.99	ppm		99
7) Cumene	4.12	105	950763	40.21	ppm		98
9) Phenol	4.50	94	576340	42.68	ppm		96
10) Aniline	4.48	93	413038	25.27	ppm		61
11) bis(2-Chloroethyl)ether	4.53	93	402538	40.45	ppm		96
12) 2-Chlorophenol	4.58	128	429611	43.57	ppm		99
13) Decane	4.59	43	352498	45.91	ppm		90
14) 1,3-Dichlorobenzene	4.68	146	476110	44.01	ppm		82
15) 1,4-Dichlorobenzene	4.73	146	477238	43.37	ppm		97
16) Benzyl alcohol	4.83	108	262722	40.62	ppm		100
17) 1,2-Dichlorobenzene	4.85	146	439186	42.59	ppm		98
18) Acetophenone	5.02	105	536551	38.54	ppm	#	69
19) 2-Methylphenol	4.93	108	381949	40.95	ppm		98
20) 2,2'-oxybis(1-Chloropropan	4.92	121	134672	40.88	ppm	#	63
21) 3&4-Methylphenol	5.04	108	417222	42.50	ppm		96
22) n-Nitroso-di-n-propylamine	5.02	70	280414	38.20	ppm		88
23) Hexachloroethane	5.09	201	149329	50.57	ppm		85
26) Nitrobenzene	5.14	77	447477	42.26	ppm		93
27) Quinoline	5.91	129	872434	45.95	ppm		96
28) Isophorone	5.31	82	729734	41.03	ppm		97

(#) = qualifier out of range (m) = manual integration
F158290.D MF6644.M Fri Jun 24 11:05:19 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158290.D Vial: 2
Acq On : 24 Jun 2016 7:56 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:02:24 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:02:23 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29)	2-Nitrophenol	5.37	139	224287	53.83	ppm	85
30)	2,4-Dimethylphenol	5.41	107	368378	40.84	ppm	91
31)	Benzoic acid	5.51	105	368584	58.62	ppm	95
32)	bis(2-Chloroethoxy)methane	5.47	93	470025	41.87	ppm	99
33)	2,4-Dichlorophenol	5.56	162	354326	52.87	ppm	96
34)	2,6-Dichlorophenol	5.71	162	329315	49.28	ppm	95
35)	1,3,5-Trichlorobenzene	5.37	180	356534	45.90	ppm	98
36)	1,2,4-Trichlorobenzene	5.60	180	362268	48.54	ppm	99
37)	1,2,3-Trichlorobenzene	5.76	180	355047	47.86	ppm	99
38)	Naphthalene	5.66	128	1216912	43.44	ppm	99
39)	4-Chloroaniline	5.70	127	408450	35.89	ppm	99
40)	2,3-Dichloroaniline	6.39	161	384584	44.94	ppm	97
41)	Caprolactam	5.97	55	171160	55.24	ppm	91
42)	Hexachlorobutadiene	5.74	225	167081	50.02	ppm	99
43)	4-Chloro-3-methylphenol	6.07	107	352033	45.74	ppm	90
44)	2-Methylnaphthalene	6.16	141	676450	45.62	ppm	100
45)	1-Methylnaphthalene	6.24	141	694013	44.32	ppm	99
46)	Dimethylnaphthalene	6.67	156	704453	45.95	ppm	98
48)	Hexachlorocyclopentadiene	6.28	237	373759	105.97	ppm	98
49)	2,4,6-Trichlorophenol	6.39	196	216262	51.28	ppm	99
50)	2,4,5-Trichlorophenol	6.43	196	258666	54.05	ppm	100
52)	2-Chloronaphthalene	6.56	162	759683	45.42	ppm	98
53)	Biphenyl	6.54	154	968072	43.91	ppm	99
54)	2-Nitroaniline	6.65	65	236133	50.31	ppm	89
55)	Dimethylphthalate	6.80	163	847613	46.44	ppm	100
56)	Acenaphthylene	6.93	152	1264967	47.16	ppm	99
57)	2,6-Dinitrotoluene	6.87	165	206059	57.02	ppm	91
58)	3-Nitroaniline	7.04	138	232857	50.21	ppm	85
59)	Acenaphthene	7.11	153	771344	44.75	ppm	98
60)	2,4-Dinitrophenol	7.14	184	244550	116.89	ppm	67
61)	4-Nitrophenol	7.23	109	111578	48.97	ppm	96
62)	Dibenzofuran	7.28	168	1056251	45.40	ppm	96
63)	2,4-Dinitrotoluene	7.27	165	284788	57.88	ppm	88
64)	2,3,4,6-Tetrachlorophenol	7.42	232	193298	59.91	ppm	94
65)	Diethylphthalate	7.54	149	833010	47.67	ppm	98
66)	Fluorene	7.67	166	805392	44.46	ppm	99
67)	4-Chlorophenyl-phenylether	7.67	204	337930	45.02	ppm	95
68)	4-Nitroaniline	7.71	138	240218	49.92	ppm	88
70)	4,6-Dinitro-2-methylphenol	7.73	198	169057	52.92	ppm	94
71)	n-Nitrosodiphenylamine	7.82	169	599505	47.32	ppm	99
72)	1,2-Diphenylhydrazine	7.86	77	876090	39.09	ppm	98
74)	4-Bromophenyl-phenylether	8.31	248	209998	51.53	ppm	88
75)	Hexachlorobenzene	8.38	284	208803	48.39	ppm	91
76)	Pentachlorophenol	8.68	266	292600	118.71	ppm	99
77)	Phenanthrene	9.00	178	1253141	44.66	ppm	99
78)	Anthracene	9.08	178	1254774	46.14	ppm	100
79)	Carbazole	9.37	167	1181182	46.39	ppm	99
80)	Di-n-butylphthalate	10.07	149	1477880	52.20	ppm	99
81)	Fluoranthene	11.15	202	1282544	51.46	ppm	91

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158290.D Vial: 2
Acq On : 24 Jun 2016 7:56 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:02:24 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:02:23 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.85	57	493145	47.90	ppm	91
84)	Pyrene	11.59	202	1352448	47.93	ppm	90
86)	Butylbenzylphthalate	13.21	149	659891	53.21	ppm	93
88)	Benzo[a]anthracene	14.23	228	1186582	50.89	ppm	99
89)	3,3'-Dichlorobenzidine	14.28	252	429844	54.57	ppm	96
90)	Chrysene	14.31	228	1155046	46.24	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.61	149	930315	47.99	ppm	98
93)	Di-n-octylphthalate	16.06	149	1654251	49.82	ppm	98
94)	Benzo[b]fluoranthene	16.53	252	1192865	50.28	ppm	98
95)	Benzo[k]fluoranthene	16.60	252	1172634	48.96	ppm	98
96)	Benzo[a]pyrene	17.17	252	1071902	52.64	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.23	276	1043432	55.90	ppm	99
98)	Dibenz(a,h)acridine	18.87	279	921242	56.79	ppm	99
99)	Dibenz[a,h]anthracene	19.30	278	1036515	54.04	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.56	256	504159	48.14	ppm	99
101)	Benzo[g,h,i]perylene	19.67	276	1123365	52.58	ppm	97

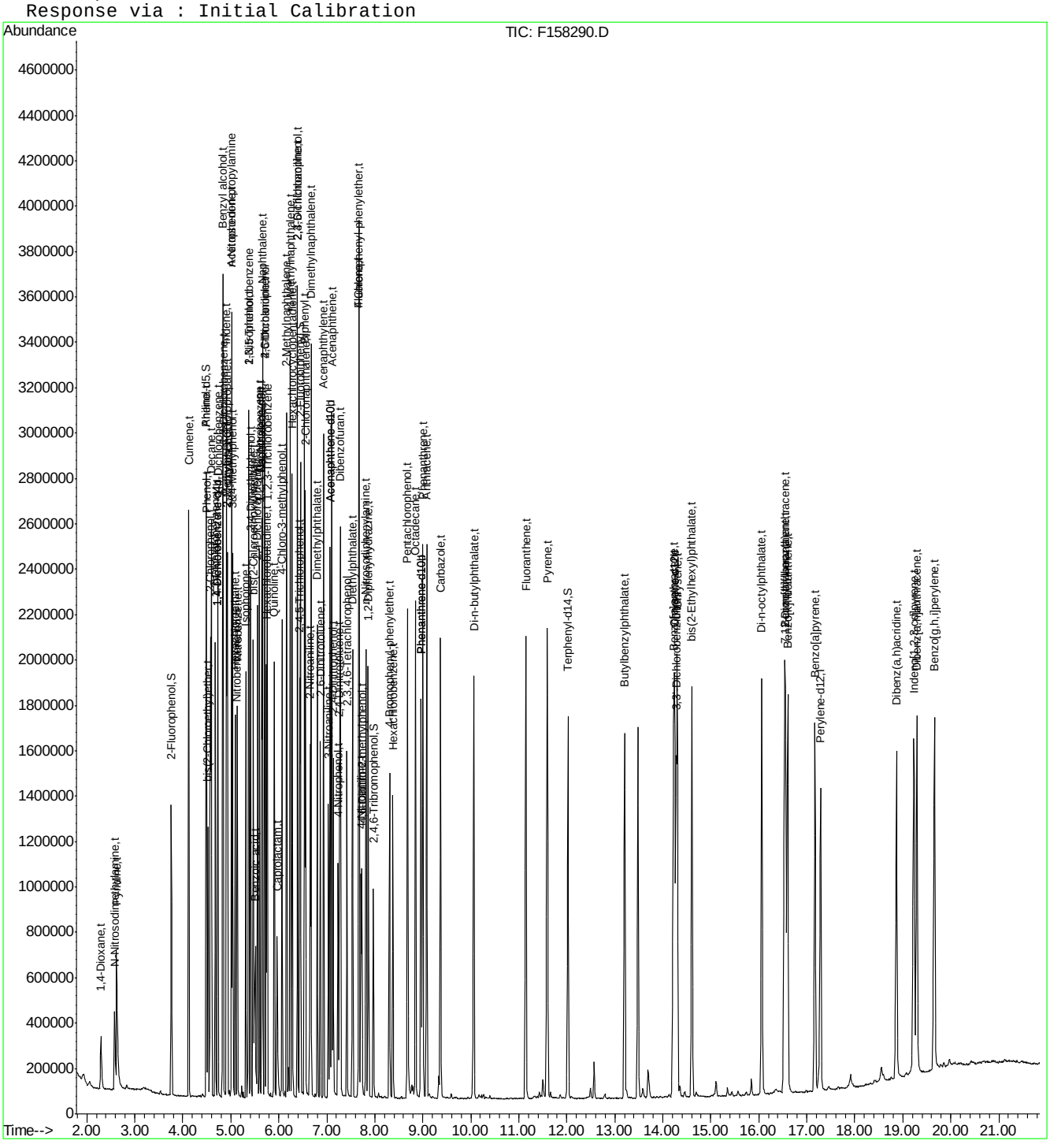
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158290.D Vial: 2
Acq On : 24 Jun 2016 7:56 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:05 2016 Quant Results File: MF6644.RES

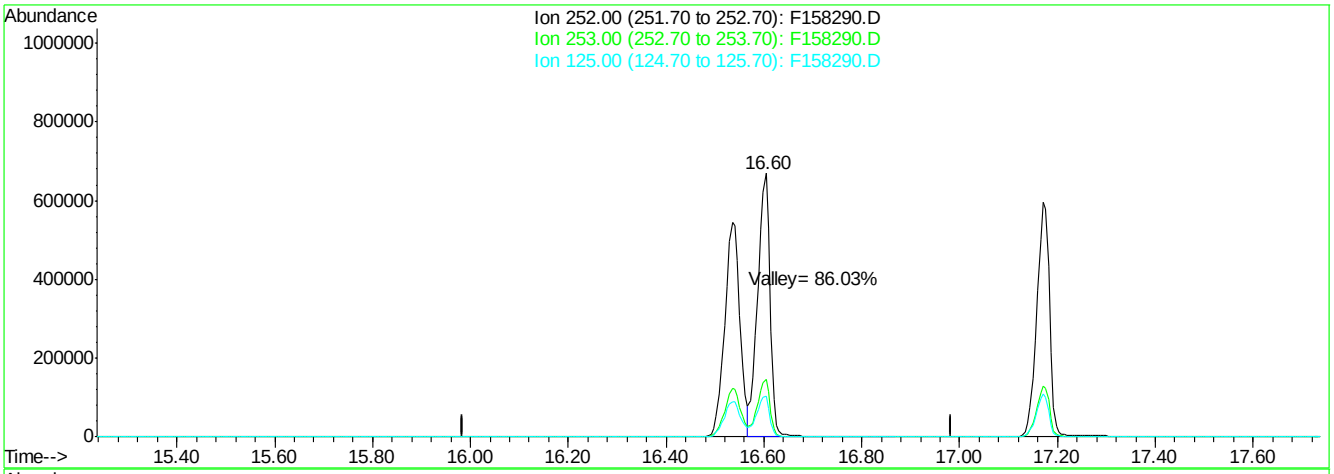
Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:02:23 2016
Response via : Initial Calibration

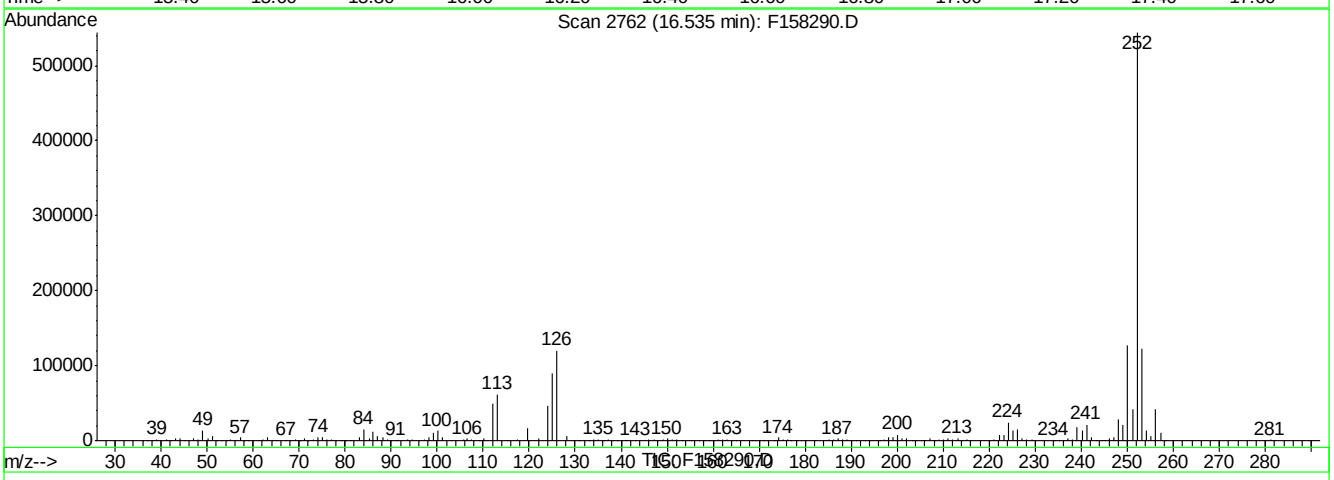


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158290.D Vial: 2
Acq On : 24 Jun 2016 7:56 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:02 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:02:23 2016
Response via : Multiple Level Calibration





(94) Benzo[b]fluoranthene (t)

16.53min 50.28ppm

response 1192865

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.61
125.00	17.20	15.32
0.00	0.00	0.00

F158290.D MF6644.M Fri Jun 24 11:02:39 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158291.D Vial: 3
Acq On : 24 Jun 2016 8:27 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 08:49:56 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 07:49:27 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.72	152	217755	40.00	ppm	0.00
24) Naphthalene-d8	5.64	136	845195	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	505877	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	848780	40.00	ppm	0.00
83) Chrysene-d12	14.23	240	749148	40.00	ppm	-0.01
92) Perylene-d12	17.28	264	699499	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.72	152	217755	40.00	ppm	0.00
104) Naphthalene-d8b	5.64	136	845195	40.00	ppm	0.00
106) Acenaphthene-d10b	7.07	164	505877	40.00	ppm	0.00
108) Phenanthrene-d10b	8.96	188	848780	40.00	ppm	0.00
110) Chrysene-d12b	14.23	240	749148	40.00	ppm	-0.01

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%			

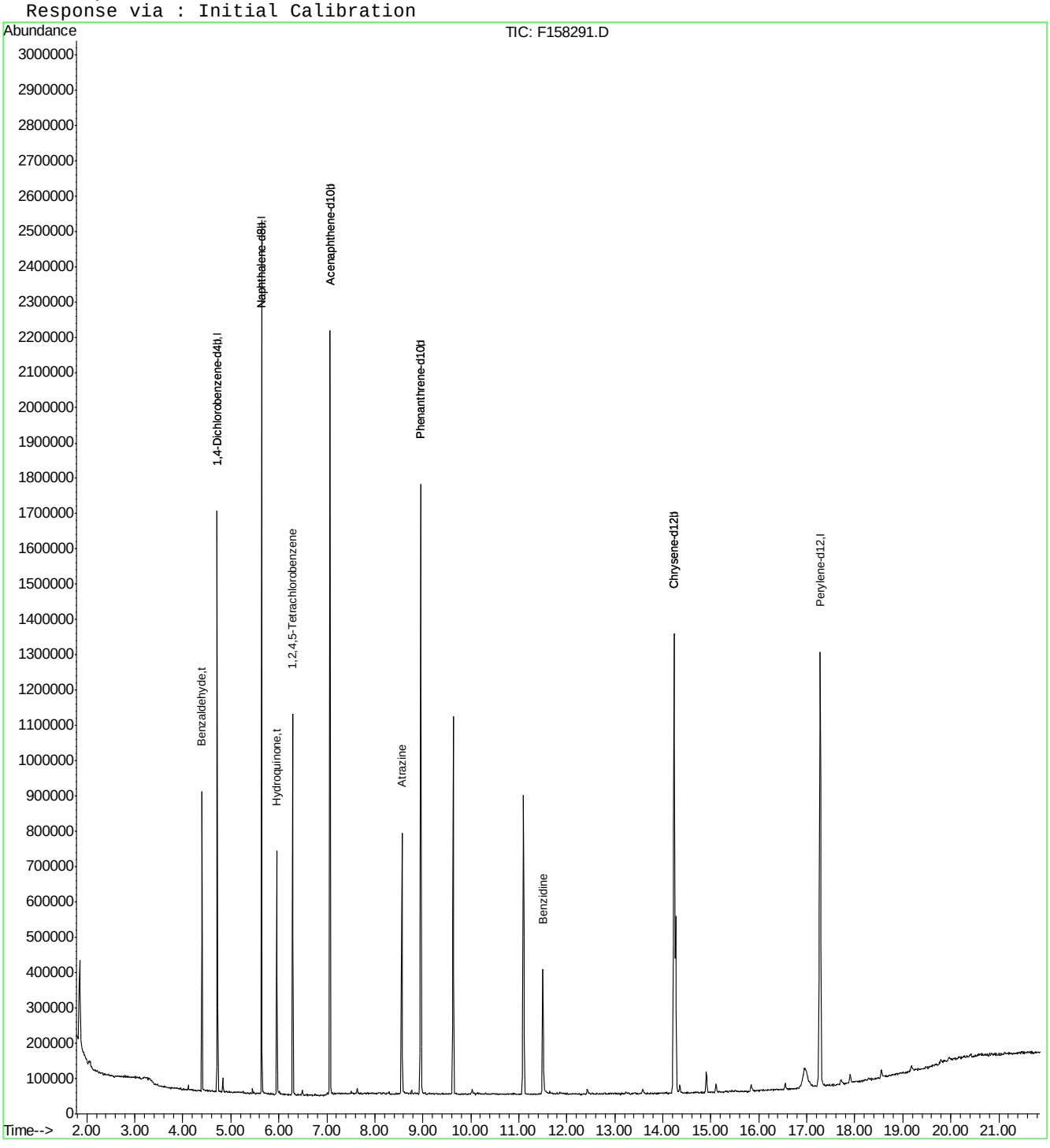
Target Compounds						Qvalue
103) Benzaldehyde	4.40	105	141350	23.67	ppm	93
105) Hydroquinone	5.96	110	213917	33.44	ppm	98
107) 1,2,4,5-Tetrachlorobenzene	6.29	216	148252	27.94	ppm	99
109) Atrazine	8.56	200	102080	32.02	ppm	99
111) Benzidine	11.50	184	235291	27.72	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6663\F158291.D Vial: 3
Acq On : 24 Jun 2016 8:27 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6663 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 24 11:03 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jun 24 11:02:23 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158368.D Vial: 2
Acq On : 27 Jun 2016 7:35 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 12:14:18 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	209814	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	851031	40.00	ppm	-0.01
47) Acenaphthene-d10	7.02	164	494096	40.00	ppm	-0.01
69) Phenanthrene-d10	8.88	188	775128	40.00	ppm	-0.02
83) Chrysene-d12	14.15	240	694465	40.00	ppm	-0.03
92) Perylene-d12	17.19	264	651035	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	209814	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	851031	40.00	ppm	-0.01
106) Acenaphthene-d10b	7.02	164	494096	40.00	ppm	-0.01
108) Phenanthrene-d10b	8.88	188	775128	40.00	ppm	-0.02
110) Chrysene-d12b	14.15	240	694465	40.00	ppm	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	3.70	112	204872	26.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 52.44%			
8) Phenol-d5	4.43	99	256396	25.35	ppm	-0.02
Spiked Amount 50.000			Recovery = 50.70%			
25) Nitrobenzene-d5	5.09	82	228031	26.79	ppm	-0.01
Spiked Amount 50.000			Recovery = 53.58%			
51) 2-Fluorobiphenyl	6.41	172	393527	25.31	ppm	0.00
Spiked Amount 50.000			Recovery = 50.62%			
73) 2,4,6-Tribromophenol	7.90	330	42375	30.26	ppm	-0.02
Spiked Amount 50.000			Recovery = 60.52%			
85) Terphenyl-d14	11.93	244	361865	26.15	ppm	-0.03
Spiked Amount 50.000			Recovery = 52.30%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.24	88	93645	24.31	ppm	98
3) Pyridine	2.57	79	243000	25.71	ppm	98
4) N-Nitrosodimethylamine	2.53	42	64529	27.18	ppm	96
6) Indene	4.87	116	363447	24.76	ppm	99
7) Cumene	4.08	105	498867	24.96	ppm	99
9) Phenol	4.44	94	306068	26.81	ppm	79
10) Aniline	4.44	93	288508	20.88	ppm	86
11) bis(2-Chloroethyl)ether	4.49	93	204345	24.29	ppm	99
12) 2-Chlorophenol	4.53	128	214117	25.69	ppm	96
13) Decane	4.56	43	149258	22.99	ppm	95
14) 1,3-Dichlorobenzene	4.64	146	226405	24.75	ppm	99
15) 1,4-Dichlorobenzene	4.69	146	230875	24.82	ppm	99
16) Benzyl alcohol	4.79	108	139294	25.48	ppm	95
17) 1,2-Dichlorobenzene	4.80	146	215378	24.71	ppm	97
18) Acetophenone	4.97	105	288066	24.48	ppm	100
19) 2-Methylphenol	4.87	108	193392	24.52	ppm	96
20) 2,2'-oxybis(1-Chloropropan	4.88	121	66639	23.93	ppm	95
21) 3&4-Methylphenol	4.99	108	211000	25.42	ppm	99
22) n-Nitroso-di-n-propylamine	4.97	70	154224	24.85	ppm	98
23) Hexachloroethane	5.05	201	67624	27.09	ppm	95
26) Nitrobenzene	5.10	77	243111	26.04	ppm	96
27) Quinoline	5.86	129	421457	25.17	ppm	100
28) Isophorone	5.27	82	407832	26.01	ppm	98

(#) = qualifier out of range (m) = manual integration
F158368.D MF6644.M Mon Jun 27 12:16:37 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158368.D Vial: 2
Acq On : 27 Jun 2016 7:35 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 12:14:18 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2-Nitrophenol	5.33	139	110047	29.95 ppm	95
30) 2,4-Dimethylphenol	5.36	107	194528	24.46 ppm	99
31) Benzoic acid	5.44	105	170279	30.72 ppm	100
32) bis(2-Chloroethoxy)methane	5.42	93	248149	25.07 ppm	100
33) 2,4-Dichlorophenol	5.51	162	162694	27.54 ppm	98
34) 2,6-Dichlorophenol	5.66	162	159143	27.01 ppm	99
35) 1,3,5-Trichlorobenzene	5.33	180	176065	25.71 ppm	100
36) 1,2,4-Trichlorobenzene	5.56	180	168471	25.60 ppm	98
37) 1,2,3-Trichlorobenzene	5.72	180	165730	25.34 ppm	97
38) Naphthalene	5.62	128	612342	24.79 ppm	98
39) 4-Chloroaniline	5.66	127	234929	23.41 ppm	99
40) 2,3-Dichloroaniline	6.34	161	195926	25.97 ppm	99
41) Caprolactam	5.91	55	73590	26.94 ppm	99
42) Hexachlorobutadiene	5.70	225	78925	26.80 ppm	98
43) 4-Chloro-3-methylphenol	6.01	107	185959	27.41 ppm	99
44) 2-Methylnaphthalene	6.12	141	333659	25.52 ppm	99
45) 1-Methylnaphthalene	6.19	141	349895	25.34 ppm	99
46) Dimethylnaphthalene	6.62	156	353617	26.16 ppm	100
48) Hexachlorocyclopentadiene	6.24	237	188619	62.00 ppm	98
49) 2,4,6-Trichlorophenol	6.34	196	106479	29.27 ppm	98
50) 2,4,5-Trichlorophenol	6.37	196	118208	28.64 ppm	99
52) 2-Chloronaphthalene	6.51	162	366706	25.42 ppm	99
53) Biphenyl	6.49	154	475146	24.99 ppm	100
54) 2-Nitroaniline	6.60	65	116543	28.79 ppm	99
55) Dimethylphthalate	6.75	163	408946	25.97 ppm	100
56) Acenaphthylene	6.88	152	606291	26.21 ppm	99
57) 2,6-Dinitrotoluene	6.81	165	95821	30.74 ppm	100
58) 3-Nitroaniline	6.97	138	112230	28.06 ppm	98
59) Acenaphthene	7.05	153	367971	24.75 ppm	100
60) 2,4-Dinitrophenol	7.07	184	101107	59.63 ppm	94
61) 4-Nitrophenol	7.15	109	60280	30.67 ppm	99
62) Dibenzofuran	7.22	168	494106	24.62 ppm	99
63) 2,4-Dinitrotoluene	7.21	165	131711	31.03 ppm	96
64) 2,3,4,6-Tetrachlorophenol	7.36	232	86970	31.25 ppm	97
65) Diethylphthalate	7.47	149	401380	26.63 ppm	99
66) Fluorene	7.61	166	404750	25.91 ppm	100
67) 4-Chlorophenyl-phenylether	7.61	204	168368	26.01 ppm	99
68) 4-Nitroaniline	7.64	138	119063	28.69 ppm	97
70) 4,6-Dinitro-2-methylphenol	7.67	198	71859	27.82 ppm	98
71) n-Nitrosodiphenylamine	7.75	169	277302	25.93 ppm	98
72) 1,2-Diphenylhydrazine	7.80	77	484535	25.61 ppm	99
74) 4-Bromophenyl-phenylether	8.24	248	94120	27.36 ppm	97
75) Hexachlorobenzene	8.31	284	94752	26.02 ppm	96
76) Pentachlorophenol	8.60	266	134528	64.66 ppm	99
77) Phenanthrene	8.92	178	582730	24.60 ppm	99
78) Anthracene	9.00	178	583643	25.42 ppm	99
79) Carbazole	9.29	167	559563	26.04 ppm	99
80) Di-n-butylphthalate	9.99	149	703013	29.42 ppm	100
81) Fluoranthene	11.05	202	578784	27.51 ppm	98

(#) = qualifier out of range (m) = manual integration
F158368.D MF6644.M Mon Jun 27 12:16:37 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158368.D Vial: 2
Acq On : 27 Jun 2016 7:35 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 12:14:18 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.78	57	232336	26.73	ppm	97
84)	Pyrene	11.50	202	613479	25.06	ppm	98
86)	Butylbenzylphthalate	13.11	149	306390	28.48	ppm	100
88)	Benzo[a]anthracene	14.13	228	534883	26.44	ppm	99
89)	3,3'-Dichlorobenzidine	14.18	252	196007	28.68	ppm	99
90)	Chrysene	14.20	228	542884	25.05	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.52	149	424580	25.82	ppm	99
93)	Di-n-octylphthalate	15.97	149	724448	26.57	ppm	99
94)	Benzo[b]fluoranthene	16.43	252	546800	27.37	ppm	92
95)	Benzo[k]fluoranthene	16.49	252	543104	26.93	ppm	97
96)	Benzo[a]pyrene	17.06	252	489970	28.57	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.12	276	456676	29.05	ppm	99
98)	Dibenz(a,h)acridine	18.76	279	410226	30.03	ppm	99
99)	Dibenz[a,h]anthracene	19.19	278	460387	28.50	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.45	256	249206	28.25	ppm	99
101)	Benzo[g,h,i]perylene	19.55	276	503643	27.99	ppm	99

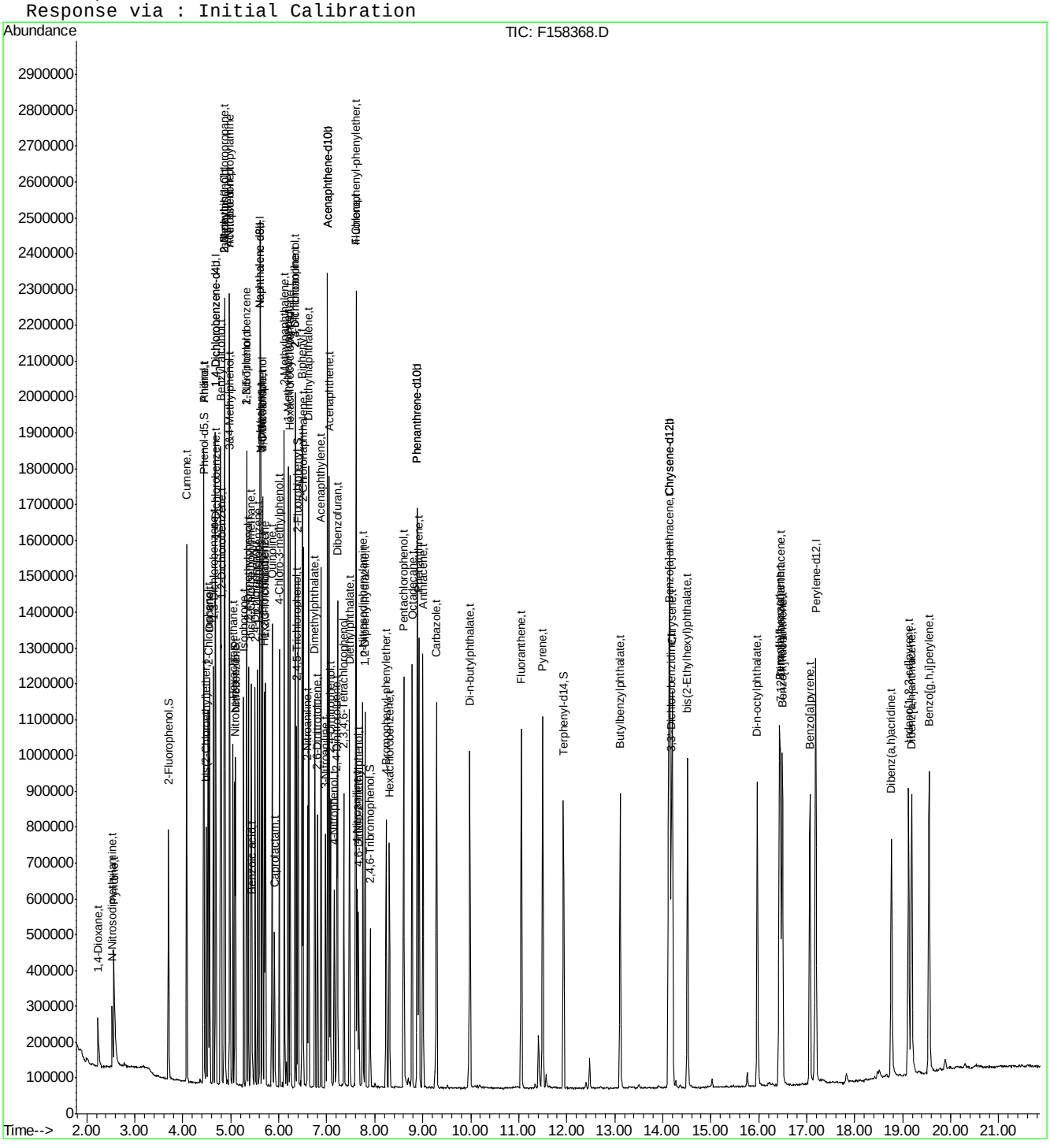
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158368.D MF6644.M Mon Jun 27 12:16:37 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158368.D Vial: 2
Acq On : 27 Jun 2016 7:35 am Operator: brittanp
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 12:16 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 10:32:45 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158369A.D Vial: 3
Acq On : 27 Jun 2016 8:44 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 12:19:05 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:19:02 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.68	152	198980	40.00	ppm	-0.01
24) Naphthalene-d8	5.60	136	798062	40.00	ppm	-0.02
47) Acenaphthene-d10	7.01	164	465442	40.00	ppm	-0.02
69) Phenanthrene-d10	8.88	188	754048	40.00	ppm	-0.02
83) Chrysene-d12	14.14	240	646826	40.00	ppm	-0.04
92) Perylene-d12	17.18	264	597426	40.00	ppm	-0.03
102) 1,4-Dichlorobenzene-d4b	4.68	152	198980	40.00	ppm	-0.01
104) Naphthalene-d8b	5.60	136	798062	40.00	ppm	-0.02
106) Acenaphthene-d10b	7.01	164	465442	40.00	ppm	-0.02
108) Phenanthrene-d10b	8.88	188	754048	40.00	ppm	-0.02
110) Chrysene-d12b	14.14	240	646826	40.00	ppm	-0.04

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	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	4.35	105	132490	24.28	ppm	97
105) Hydroquinone	5.90	110	189552	31.38	ppm	98
107) 1,2,4,5-Tetrachlorobenzene	6.25	216	129878	26.60	ppm	99
109) Atrazine	8.49	200	86012	30.37	ppm	98
111) Benzidine	11.41	184	216730	29.57	ppm	100

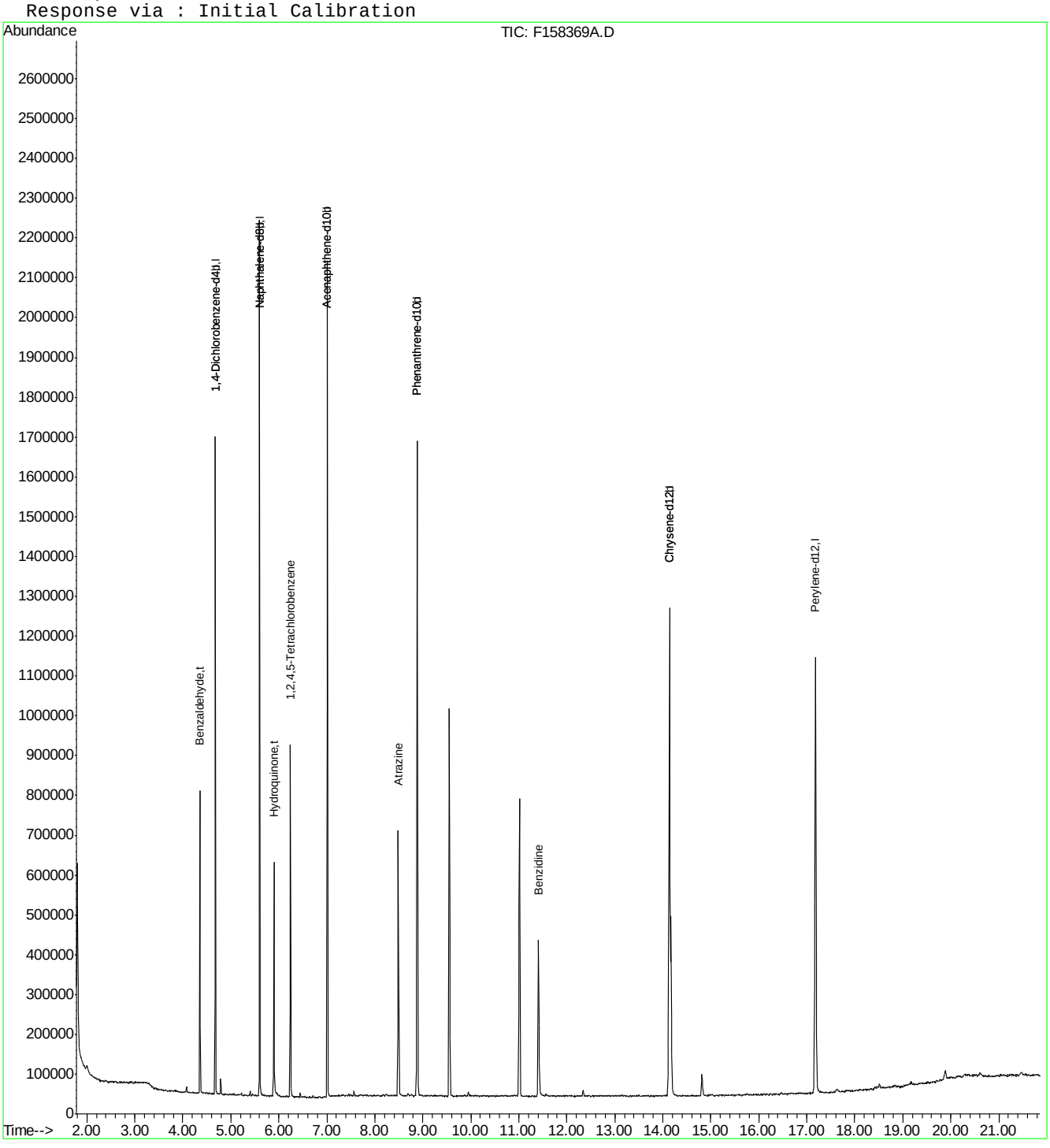
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6666\F158369A.D Vial: 3
Acq On : 27 Jun 2016 8:44 am Operator: brittanp
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6666,1000,,,1,1 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 27 12:19 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 27 12:19:02 2016
Response via : Initial Calibration



F158369A.D MF6644.M Mon Jun 27 12:19:55 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158395.D Vial: 2
Acq On : 27 Jun 2016 11:12 pm Operator: juliusj
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 09:37:52 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	231753	40.00	ppm	-0.03
24) Naphthalene-d8	5.59	136	924001	40.00	ppm	-0.03
47) Acenaphthene-d10	7.00	164	547319	40.00	ppm	-0.03
69) Phenanthrene-d10	8.87	188	843035	40.00	ppm	-0.04
83) Chrysene-d12	14.13	240	741907	40.00	ppm	-0.05
92) Perylene-d12	17.16	264	674557	40.00	ppm	-0.05
102) 1,4-Dichlorobenzene-d4b	4.66	152	231753	40.00	ppm	-0.03
104) Naphthalene-d8b	5.59	136	924001	40.00	ppm	-0.03
106) Acenaphthene-d10b	7.00	164	547319	40.00	ppm	-0.03
108) Phenanthrene-d10b	8.87	188	843035	40.00	ppm	-0.04
110) Chrysene-d12b	14.13	240	741907	40.00	ppm	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	3.69	112	433630	50.25	ppm	-0.04
Spiked Amount 50.000			Recovery = 100.50%			
8) Phenol-d5	4.41	99	538924	48.24	ppm	-0.03
Spiked Amount 50.000			Recovery = 96.48%			
25) Nitrobenzene-d5	5.07	82	466470	50.47	ppm	-0.03
Spiked Amount 50.000			Recovery = 100.94%			
51) 2-Fluorobiphenyl	6.39	172	797130	46.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 92.58%			
73) 2,4,6-Tribromophenol	7.89	330	87068	57.16	ppm	-0.04
Spiked Amount 50.000			Recovery = 114.32%			
85) Terphenyl-d14	11.91	244	730154	49.40	ppm	-0.05
Spiked Amount 50.000			Recovery = 98.80%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.22	88	186709	43.89	ppm		100
3) Pyridine	2.55	79	479978	45.98	ppm		99
4) N-Nitrosodimethylamine	2.51	42	134587	51.32	ppm		92
6) Indene	4.85	116	716959	44.21	ppm		99
7) Cumene	4.07	105	1005896	45.56	ppm		99
9) Phenol	4.42	94	599977	47.58	ppm		90
10) Aniline	4.43	93	466790	30.58	ppm		85
11) bis(2-Chloroethyl)ether	4.48	93	415673	44.73	ppm		98
12) 2-Chlorophenol	4.51	128	429107	46.60	ppm		98
13) Decane	4.54	43	287989	40.17	ppm		99
14) 1,3-Dichlorobenzene	4.62	146	453636	44.90	ppm		99
15) 1,4-Dichlorobenzene	4.68	146	466024	45.36	ppm		99
16) Benzyl alcohol	4.78	108	278441	46.11	ppm		94
17) 1,2-Dichlorobenzene	4.79	146	433264	45.00	ppm		97
18) Acetophenone	4.96	105	564601	43.43	ppm		98
19) 2-Methylphenol	4.86	108	381741	43.83	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.87	121	134695	43.79	ppm	#	77
21) 3&4-Methylphenol	4.97	108	419307	45.74	ppm		100
22) n-Nitroso-di-n-propylamine	4.96	70	306479	44.71	ppm		98
23) Hexachloroethane	5.03	201	136346	49.45	ppm		88
26) Nitrobenzene	5.09	77	487789	48.13	ppm		97
27) Quinoline	5.85	129	853685	46.96	ppm		100
28) Isophorone	5.26	82	792214	46.53	ppm		100

(#) = qualifier out of range (m) = manual integration
F158395.D MF6644.M Tue Jun 28 09:38:21 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158395.D Vial: 2
Acq On : 27 Jun 2016 11:12 pm Operator: juliusj
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 09:37:52 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.32	139	222933	55.89	ppm		91
30)	2,4-Dimethylphenol	5.35	107	390236	45.20	ppm		98
31)	Benzoic acid	5.44	105	354842	58.95	ppm		98
32)	bis(2-Chloroethoxy)methane	5.41	93	493730	45.95	ppm		100
33)	2,4-Dichlorophenol	5.49	162	330302	51.49	ppm		98
34)	2,6-Dichlorophenol	5.65	162	312528	48.86	ppm		96
35)	1,3,5-Trichlorobenzene	5.32	180	342582	46.07	ppm		98
36)	1,2,4-Trichlorobenzene	5.55	180	343045	48.02	ppm		98
37)	1,2,3-Trichlorobenzene	5.71	180	331611	46.69	ppm		100
38)	Naphthalene	5.60	128	1233876	46.01	ppm		99
39)	4-Chloroaniline	5.65	127	434334	39.86	ppm		97
40)	2,3-Dichloroaniline	6.33	161	383315	46.79	ppm		98
41)	Caprolactam	5.91	55	145788	49.15	ppm		96
42)	Hexachlorobutadiene	5.69	225	159982	50.03	ppm		99
43)	4-Chloro-3-methylphenol	6.00	107	376760	51.14	ppm	#	32
44)	2-Methylnaphthalene	6.10	141	675263	47.58	ppm		99
45)	1-Methylnaphthalene	6.18	141	690822	46.09	ppm		99
46)	Dimethylnaphthalene	6.61	156	694936	47.35	ppm		99
48)	Hexachlorocyclopentadiene	6.22	237	364089	108.04	ppm		99
49)	2,4,6-Trichlorophenol	6.33	196	206029	51.13	ppm		99
50)	2,4,5-Trichlorophenol	6.36	196	238226	52.10	ppm		99
52)	2-Chloronaphthalene	6.49	162	724816	45.36	ppm		99
53)	Biphenyl	6.48	154	947026	44.96	ppm		99
54)	2-Nitroaniline	6.58	65	245896	54.84	ppm		91
55)	Dimethylphthalate	6.74	163	817448	46.87	ppm		99
56)	Acenaphthylene	6.87	152	1218304	47.54	ppm		100
57)	2,6-Dinitrotoluene	6.80	165	192320	55.70	ppm		90
58)	3-Nitroaniline	6.96	138	225852	50.97	ppm		99
59)	Acenaphthene	7.03	153	755574	45.88	ppm		99
60)	2,4-Dinitrophenol	7.06	184	226066	113.36	ppm		96
61)	4-Nitrophenol	7.14	109	125174	57.50	ppm		97
62)	Dibenzofuran	7.21	168	994427	44.74	ppm		99
63)	2,4-Dinitrotoluene	7.19	165	267496	56.90	ppm		95
64)	2,3,4,6-Tetrachlorophenol	7.34	232	173427	56.26	ppm		99
65)	Diethylphthalate	7.46	149	816897	48.92	ppm		99
66)	Fluorene	7.59	166	817519	47.24	ppm		100
67)	4-Chlorophenyl-phenylether	7.59	204	328863	45.86	ppm		95
68)	4-Nitroaniline	7.63	138	227027	49.38	ppm		100
70)	4,6-Dinitro-2-methylphenol	7.65	198	152732	52.11	ppm		91
71)	n-Nitrosodiphenylamine	7.74	169	560493	48.19	ppm		99
72)	1,2-Diphenylhydrazine	7.78	77	966933	47.00	ppm		98
74)	4-Bromophenyl-phenylether	8.22	248	185716	49.63	ppm		98
75)	Hexachlorobenzene	8.29	284	187006	47.21	ppm		99
76)	Pentachlorophenol	8.59	266	267081	118.02	ppm		99
77)	Phenanthrene	8.91	178	1192443	46.29	ppm		99
78)	Anthracene	8.99	178	1196732	47.93	ppm		99
79)	Carbazole	9.27	167	1099667	47.04	ppm		100
80)	Di-n-butylphthalate	9.96	149	1415309	54.45	ppm		99
81)	Fluoranthene	11.03	202	1182429	51.68	ppm		100

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158395.D Vial: 2
Acq On : 27 Jun 2016 11:12 pm Operator: juliusj
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 09:37:52 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.76	57	445391	47.12	ppm	99
84)	Pyrene	11.48	202	1246138	47.64	ppm	100
86)	Butylbenzylphthalate	13.09	149	636338	55.36	ppm	99
88)	Benzo[a]anthracene	14.10	228	1092510	50.55	ppm	99
89)	3,3'-Dichlorobenzidine	14.16	252	391712	53.65	ppm	99
90)	Chrysene	14.18	228	1068653	46.16	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.49	149	874973	48.68	ppm	99
93)	Di-n-octylphthalate	15.95	149	1517938	52.34	ppm	99
94)	Benzo[b]fluoranthene	16.41	252	1086857	52.50	ppm	98
95)	Benzo[k]fluoranthene	16.48	252	1069893	51.20	ppm	98
96)	Benzo[a]pyrene	17.04	252	961152	54.10	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.10	276	906787	55.67	ppm	98
98)	Dibenz(a,h)acridine	18.74	279	794144	56.10	ppm	99
99)	Dibenz[a,h]anthracene	19.16	278	903888	54.01	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.43	256	460188	50.36	ppm	100
101)	Benzo[g,h,i]perylene	19.53	276	989816	53.10	ppm	99

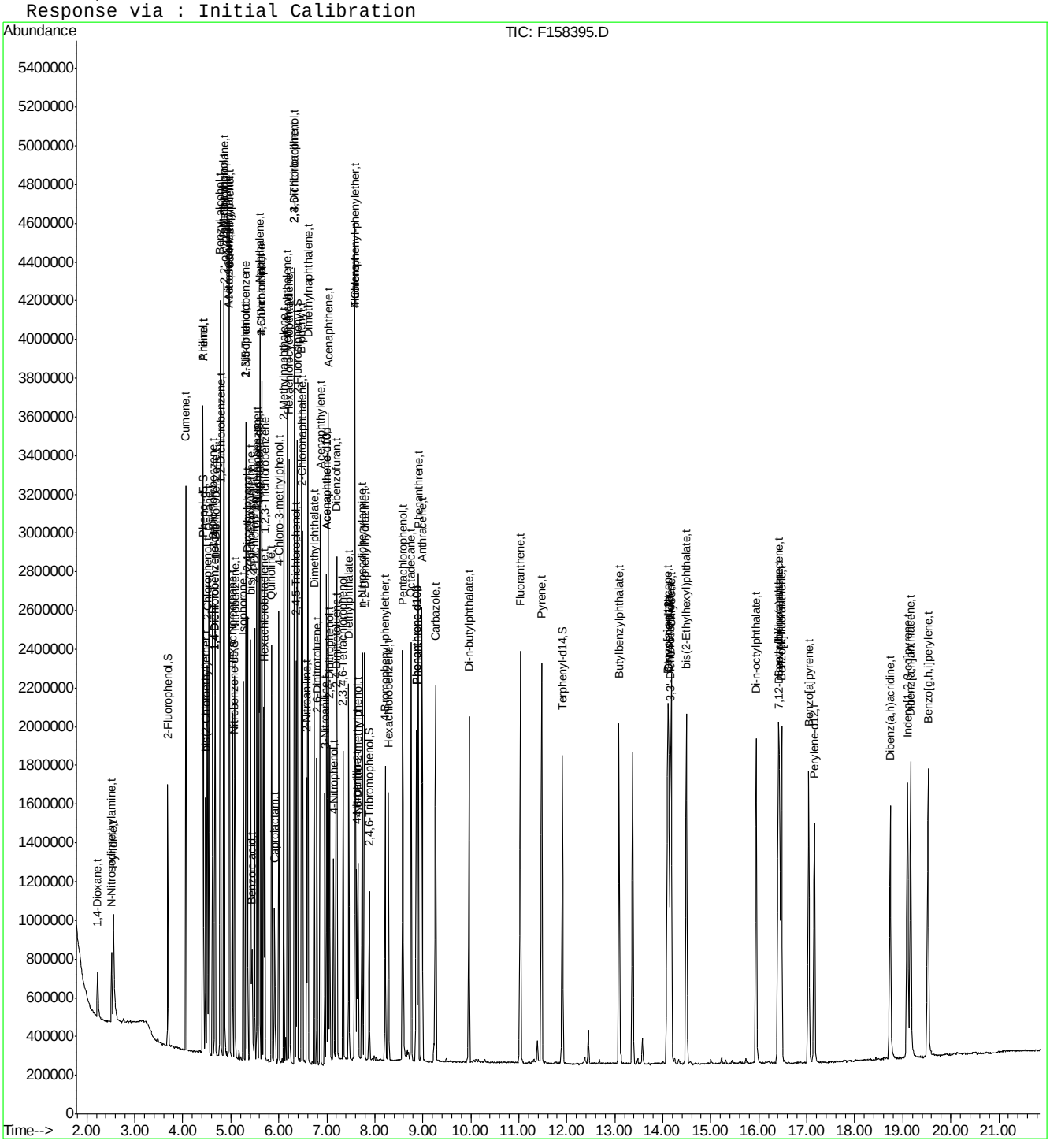
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158395.D MF6644.M Tue Jun 28 09:38:21 2016 RT1

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158395.D Vial: 2
Acq On : 27 Jun 2016 11:12 pm Operator: juliusj
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 9:38 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158396.D Vial: 3
Acq On : 27 Jun 2016 11:41 pm Operator: juliusj
Sample : cc6645-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 09:39:04 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.66	152	235830	40.00 ppm	-0.03
24) Naphthalene-d8	5.59	136	960192	40.00 ppm	-0.03
47) Acenaphthene-d10	6.99	164	554988	40.00 ppm	-0.03
69) Phenanthrene-d10	8.86	188	883359	40.00 ppm	-0.04
83) Chrysene-d12	14.11	240	781029	40.00 ppm	-0.07
92) Perylene-d12	17.15	264	716252	40.00 ppm	-0.06
102) 1,4-Dichlorobenzene-d4b	4.66	152	235830	40.00 ppm	-0.03
104) Naphthalene-d8b	5.59	136	960192	40.00 ppm	-0.03
106) Acenaphthene-d10b	6.99	164	554988	40.00 ppm	-0.03
108) Phenanthrene-d10b	8.86	188	883359	40.00 ppm	-0.04
110) Chrysene-d12b	14.11	240	781029	40.00 ppm	-0.07

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	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%

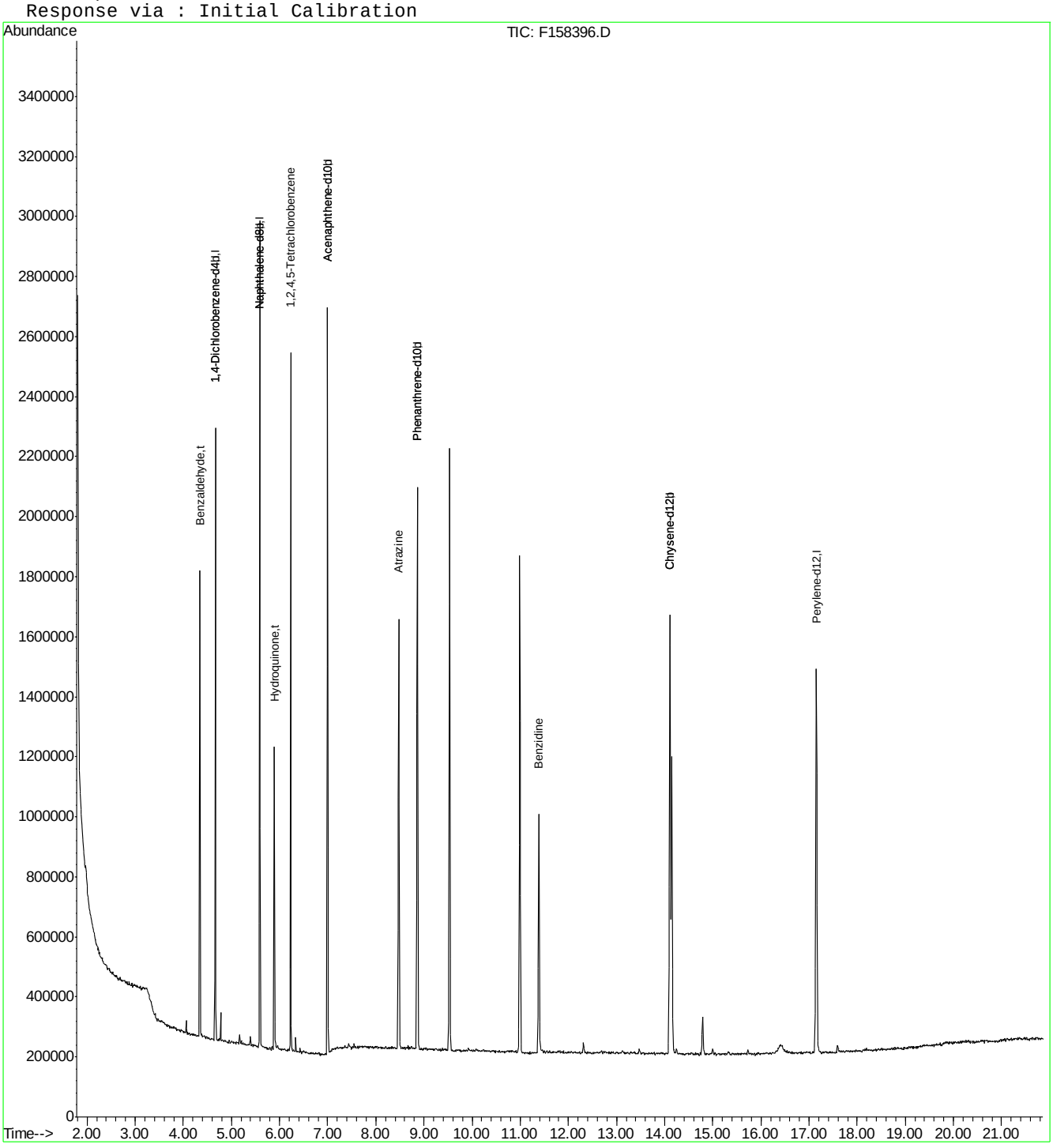
Target Compounds					Qvalue
103) Benzaldehyde	4.34	105	269930	41.74 ppm	95
105) Hydroquinone	5.89	110	441977	60.82 ppm	99
107) 1,2,4,5-Tetrachlorobenzene	6.23	216	296007	50.84 ppm	99
109) Atrazine	8.48	200	200201	60.34 ppm	99
111) Benzidine	11.39	184	448046	50.62 ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158396.D MF6644.M Tue Jun 28 09:39:50 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6667\F158396.D Vial: 3
Acq On : 27 Jun 2016 11:41 pm Operator: juliusj
Sample : cc6645-50 Inst : MSF
Misc : op93756,ef6667 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 9:39 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 09:37:49 2016
Response via : Initial Calibration



F158396.D MF6644.M Tue Jun 28 09:39:50 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158423.D Vial: 2
Acq On : 28 Jun 2016 12:38 pm Operator: ariellec
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:48:52 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:48:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	200454	40.00	ppm	-0.04
24) Naphthalene-d8	5.57	136	810959	40.00	ppm	-0.05
47) Acenaphthene-d10	6.97	164	462878	40.00	ppm	-0.05
69) Phenanthrene-d10	8.83	188	732220	40.00	ppm	-0.08
83) Chrysene-d12	14.07	240	630359	40.00	ppm	-0.11
92) Perylene-d12	17.10	264	583721	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4b	4.65	152	200454	40.00	ppm	-0.04
104) Naphthalene-d8b	5.57	136	810959	40.00	ppm	-0.05
106) Acenaphthene-d10b	6.97	164	462878	40.00	ppm	-0.05
108) Phenanthrene-d10b	8.83	188	732220	40.00	ppm	-0.08
110) Chrysene-d12b	14.07	240	630359	40.00	ppm	-0.11

System Monitoring Compounds						
5) 2-Fluorophenol	3.67	112	195005	26.12	ppm	-0.06
Spiked Amount 50.000			Recovery = 52.24%			
8) Phenol-d5	4.39	99	247632	25.63	ppm	-0.05
Spiked Amount 50.000			Recovery = 51.26%			
25) Nitrobenzene-d5	5.05	82	218745	26.96	ppm	-0.04
Spiked Amount 50.000			Recovery = 53.92%			
51) 2-Fluorobiphenyl	6.37	172	370897	25.47	ppm	-0.04
Spiked Amount 50.000			Recovery = 50.94%			
73) 2,4,6-Tribromophenol	7.85	330	38642	29.21	ppm	-0.07
Spiked Amount 50.000			Recovery = 58.42%			
85) Terphenyl-d14	11.86	244	327575	26.08	ppm	-0.10
Spiked Amount 50.000			Recovery = 52.16%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.20	88	84528	22.97	ppm		99
3) Pyridine	2.53	79	228261	25.28	ppm		98
4) N-Nitrosodimethylamine	2.49	42	59493	26.23	ppm		97
6) Indene	4.84	116	352141	25.11	ppm		99
7) Cumene	4.05	105	478823	25.07	ppm		100
9) Phenol	4.40	94	296131	27.15	ppm		92
10) Aniline	4.41	93	287759	21.80	ppm		73
11) bis(2-Chloroethyl)ether	4.46	93	194135	24.15	ppm		99
12) 2-Chlorophenol	4.50	128	203500	25.55	ppm		93
13) Decane	4.53	43	144764	23.34	ppm		98
14) 1,3-Dichlorobenzene	4.61	146	218291	24.98	ppm		100
15) 1,4-Dichlorobenzene	4.66	146	218900	24.63	ppm		99
16) Benzyl alcohol	4.76	108	134147	25.68	ppm		97
17) 1,2-Dichlorobenzene	4.77	146	207890	24.96	ppm		97
18) Acetophenone	4.94	105	276402	24.58	ppm		99
19) 2-Methylphenol	4.84	108	184531	24.49	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.85	121	64521	24.25	ppm	#	83
21) 3&4-Methylphenol	4.95	108	200831	25.33	ppm		100
22) n-Nitroso-di-n-propylamine	4.94	70	144924	24.45	ppm		97
23) Hexachloroethane	5.02	201	65137	27.31	ppm		98
26) Nitrobenzene	5.07	77	235408	26.46	ppm		94
27) Quinoline	5.82	129	398011	24.95	ppm		99
28) Isophorone	5.24	82	383882	25.69	ppm		100

(#) = qualifier out of range (m) = manual integration
F158423.D MF6644.M Tue Jun 28 15:51:14 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158423.D Vial: 2
Acq On : 28 Jun 2016 12:38 pm Operator: ariellec
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:48:52 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:48:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2-Nitrophenol	5.29	139	108172	30.90	ppm	94
30) 2,4-Dimethylphenol	5.33	107	183346	24.20	ppm	99
31) Benzoic acid	5.41	105	161385	30.55	ppm	98
32) bis(2-Chloroethoxy)methane	5.39	93	233608	24.77	ppm	99
33) 2,4-Dichlorophenol	5.47	162	158144	28.09	ppm	99
34) 2,6-Dichlorophenol	5.63	162	153566	27.35	ppm	97
35) 1,3,5-Trichlorobenzene	5.30	180	170201	26.08	ppm	99
36) 1,2,4-Trichlorobenzene	5.52	180	161478	25.75	ppm	99
37) 1,2,3-Trichlorobenzene	5.68	180	162105	26.01	ppm	98
38) Naphthalene	5.58	128	583845	24.80	ppm	99
39) 4-Chloroaniline	5.63	127	229942	24.05	ppm	97
40) 2,3-Dichloroaniline	6.30	161	188489	26.22	ppm	98
41) Caprolactam	5.88	55	70371	27.03	ppm	94
42) Hexachlorobutadiene	5.67	225	74380	26.50	ppm	99
43) 4-Chloro-3-methylphenol	5.98	107	175645	27.17	ppm	94
44) 2-Methylnaphthalene	6.09	141	319804	25.67	ppm	98
45) 1-Methylnaphthalene	6.16	141	337614	25.66	ppm	99
46) Dimethylnaphthalene	6.58	156	328766	25.52	ppm	99
48) Hexachlorocyclopentadiene	6.20	237	181525	63.69	ppm	100
49) 2,4,6-Trichlorophenol	6.30	196	101402	29.76	ppm	100
50) 2,4,5-Trichlorophenol	6.34	196	111494	28.83	ppm	97
52) 2-Chloronaphthalene	6.47	162	347482	25.71	ppm	98
53) Biphenyl	6.45	154	450081	25.27	ppm	100
54) 2-Nitroaniline	6.56	65	109754	28.94	ppm	90
55) Dimethylphthalate	6.71	163	378808	25.68	ppm	99
56) Acenaphthylene	6.84	152	570303	26.31	ppm	100
57) 2,6-Dinitrotoluene	6.77	165	88287	30.24	ppm	91
58) 3-Nitroaniline	6.94	138	107042	28.57	ppm	92
59) Acenaphthene	7.00	153	353090	25.35	ppm	99
60) 2,4-Dinitrophenol	7.03	184	96238	60.49	ppm	92
61) 4-Nitrophenol	7.11	109	56738	30.82	ppm	97
62) Dibenzofuran	7.18	168	472771	25.15	ppm	99
63) 2,4-Dinitrotoluene	7.16	165	121991	30.68	ppm	96
64) 2,3,4,6-Tetrachlorophenol	7.31	232	81514	31.27	ppm	98
65) Diethylphthalate	7.43	149	378139	26.78	ppm	99
66) Fluorene	7.55	166	378073	25.83	ppm	100
67) 4-Chlorophenyl-phenylether	7.56	204	157756	26.01	ppm	97
68) 4-Nitroaniline	7.59	138	107142	27.55	ppm	98
70) 4,6-Dinitro-2-methylphenol	7.62	198	69381	28.39	ppm	94
71) n-Nitrosodiphenylamine	7.70	169	258277	25.57	ppm	98
72) 1,2-Diphenylhydrazine	7.75	77	456823	25.56	ppm	98
74) 4-Bromophenyl-phenylether	8.19	248	86607	26.65	ppm	96
75) Hexachlorobenzene	8.25	284	84003	24.42	ppm	94
76) Pentachlorophenol	8.54	266	125480	63.84	ppm	99
77) Phenanthrene	8.86	178	547634	24.48	ppm	99
78) Anthracene	8.94	178	546486	25.20	ppm	99
79) Carbazole	9.23	167	524394	25.83	ppm	100
80) Di-n-butylphthalate	9.92	149	647766	28.69	ppm	100
81) Fluoranthene	10.98	202	536465	26.99	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158423.D Vial: 2
Acq On : 28 Jun 2016 12:38 pm Operator: ariellec
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:48:52 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:48:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.72	57	217761	26.52	ppm	98
84)	Pyrene	11.43	202	566655	25.50	ppm	99
86)	Butylbenzylphthalate	13.04	149	287475	29.43	ppm	97
88)	Benzo[a]anthracene	14.05	228	483634	26.34	ppm	98
89)	3,3'-Dichlorobenzidine	14.10	252	179914	29.00	ppm	100
90)	Chrysene	14.12	228	480804	24.44	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.44	149	395761	26.48	ppm	100
93)	Di-n-octylphthalate	15.89	149	685387	27.95	ppm	100
94)	Benzo[b]fluoranthene	16.34	252	486742	27.17	ppm	98
95)	Benzo[k]fluoranthene	16.41	252	476838	26.37	ppm	98
96)	Benzo[a]pyrene	16.98	252	435219	28.31	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.03	276	406988	28.88	ppm	99
98)	Dibenz(a,h)acridine	18.68	279	365698	29.85	ppm	100
99)	Dibenz[a,h]anthracene	19.09	278	406390	28.06	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.37	256	218884	27.68	ppm	98
101)	Benzo[g,h,i]perylene	19.46	276	443220	27.48	ppm	100

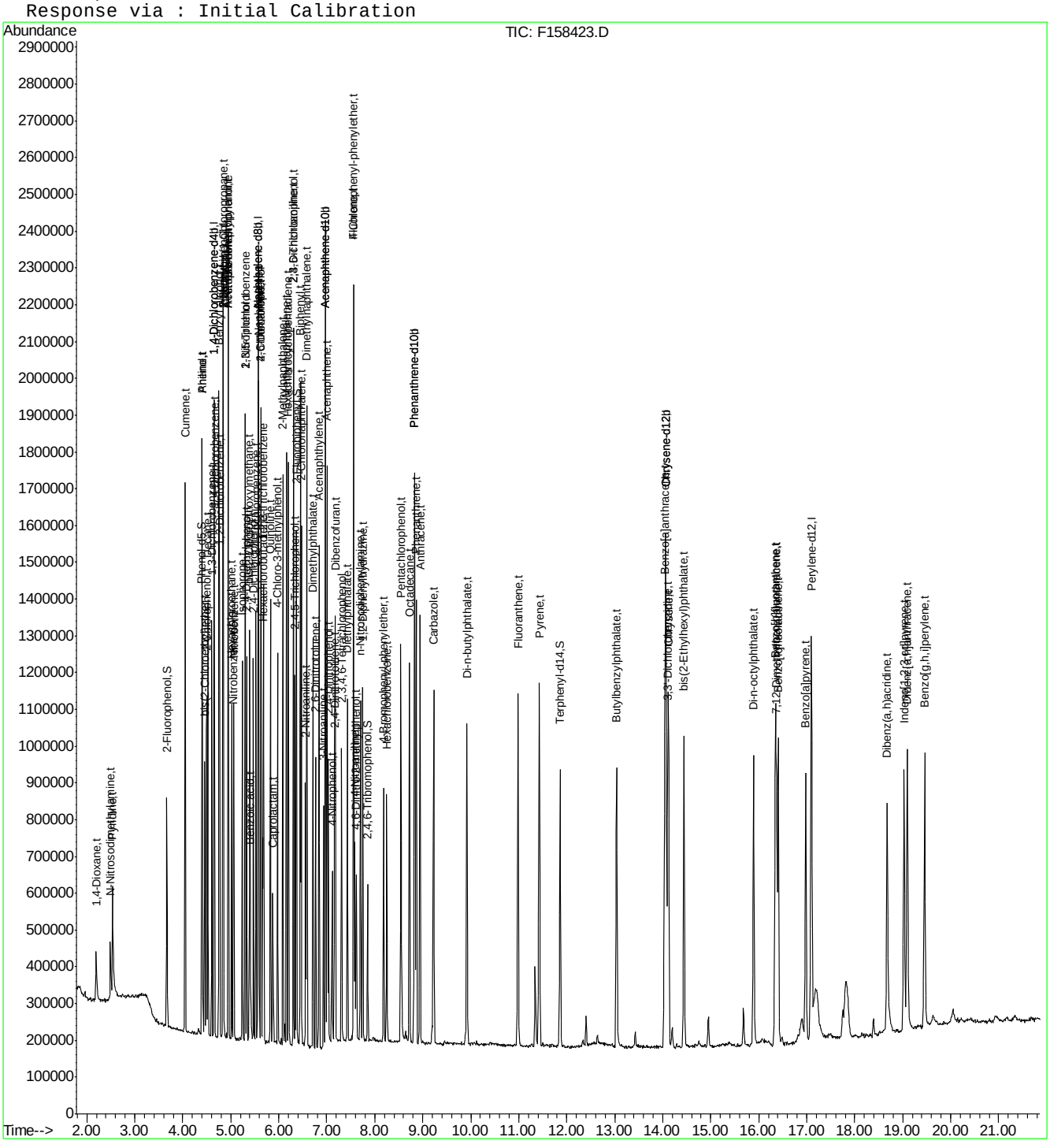
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158423.D Vial: 2
Acq On : 28 Jun 2016 12:38 pm Operator: ariellec
Sample : cc6644-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:49 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:48:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158424.D Vial: 3
Acq On : 28 Jun 2016 1:07 pm Operator: ariellec
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:50:38 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:48:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	218246	40.00	ppm	-0.04
24) Naphthalene-d8	5.57	136	861726	40.00	ppm	-0.05
47) Acenaphthene-d10	6.97	164	502951	40.00	ppm	-0.05
69) Phenanthrene-d10	8.83	188	779452	40.00	ppm	-0.08
83) Chrysene-d12	14.06	240	682171	40.00	ppm	-0.12
92) Perylene-d12	17.10	264	640897	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4b	4.65	152	218246	40.00	ppm	-0.04
104) Naphthalene-d8b	5.57	136	861726	40.00	ppm	-0.05
106) Acenaphthene-d10b	6.97	164	502951	40.00	ppm	-0.05
108) Phenanthrene-d10b	8.83	188	779452	40.00	ppm	-0.08
110) Chrysene-d12b	14.06	240	682171	40.00	ppm	-0.12

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	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%			

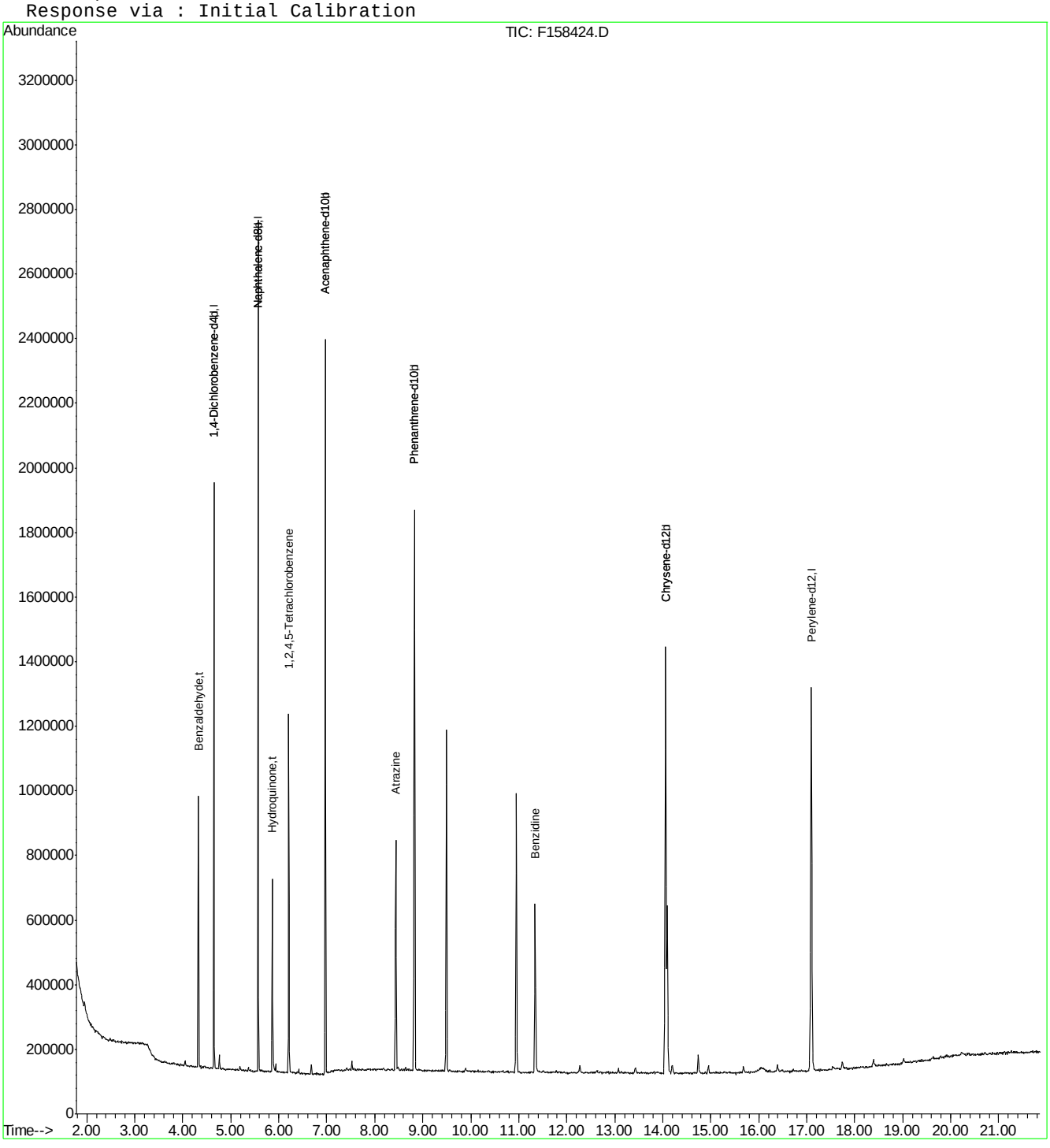
Target Compounds						Qvalue
103) Benzaldehyde	4.33	105	151070	25.24	ppm	97
105) Hydroquinone	5.87	110	212965	32.65	ppm	98
107) 1,2,4,5-Tetrachlorobenzene	6.21	216	142096	26.93	ppm	99
109) Atrazine	8.44	200	96632	33.01	ppm	99
111) Benzidine	11.34	184	290176	37.54	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F158424.D MF6644.M Tue Jun 28 15:51:10 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158424.D Vial: 3
Acq On : 28 Jun 2016 1:07 pm Operator: ariellec
Sample : cc6645-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:50 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 15:48:49 2016
Response via : Initial Calibration



F158424.D MF6644.M Tue Jun 28 15:51:10 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158425.D Vial: 4
Acq On : 28 Jun 2016 1:36 pm Operator: ariellec
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 05 12:36:47 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jul 03 10:17:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	192001	40.00	ppm	-0.07
24) Naphthalene-d8	5.57	136	771952	40.00	ppm	-0.08
47) Acenaphthene-d10	6.97	164	446827	40.00	ppm	-0.10
69) Phenanthrene-d10	8.83	188	694653	40.00	ppm	-0.14
83) Chrysene-d12	14.06	240	620037	40.00	ppm	-0.19
92) Perylene-d12	17.10	264	555298	40.00	ppm	-0.20
102) 1,4-Dichlorobenzene-d4A	4.65	152	192001	40.00	ppm	-0.09
112) Naphthalene-d8A	5.57	136	771952	40.00	ppm	-0.09
121) Acenaphthene-d10A	6.97	164	446827	40.00	ppm	-0.11
132) Phenanthrene-d10A	8.83	188	694653	40.00	ppm	-0.15
147) Chrysene-d12A	14.06	240	620037	40.00	ppm	-0.19
155) Perylene-d12A	17.10	264	555298	40.00	ppm	-0.21
159) 1,4-Dichlorobenzene-d4b	4.65	152	192001	40.00	ppm	-0.09
161) Naphthalene-d8b	5.57	136	771952	40.00	ppm	-0.09
163) Acenaphthene-d10b	6.97	164	446827	40.00	ppm	-0.11
165) Phenanthrene-d10b	8.83	188	694653	40.00	ppm	-0.15
167) Chrysene-d12b	14.06	240	620037	40.00	ppm	-0.19
169) 1,4-Dichlorobenzene-d4c	4.65	152	192001	40.00	ppm	-0.09
171) Naphthalene-d8c	5.57	136	771952	40.00	ppm	-0.09
176) Chrysene-d12c	14.06	240	620037	40.00	ppm	-0.19
178) Naphthalene-d8d	5.57	136	771952	40.00	ppm	-0.09
180) Chrysene-d12B	14.06	240	620037	40.00	ppm	-0.20

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	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) 2-Picoline	3.18	93	222362	24.48	ppm		99
104) Pentachloroethane	4.44	167	67862	25.02	ppm		99
105) Methyl methanesulfonate	3.53	80	110619	26.52	ppm		96
106) N-Nitrosodiethylamine	3.84	102	94766	24.56	ppm		97
107) N-Nitrosomethylethylamine	3.28	42	66651	29.85	ppm		84
108) Ethyl methanesulfonate	4.08	79	154866	26.26	ppm		98
109) N-Nitrosopyrrolidine	4.94	41	111916	56.88	ppm	#	24
110) N-Nitrosomorpholine	4.96	56	85927	27.93	ppm		94
111) o-Toluidine	4.97	106	287138	23.55	ppm	#	47
113) O,O,O-Triethyl phosphoroth	5.37	198	76381	24.98	ppm		90
114) N-Nitrosopiperidine	5.18	42	88706	30.86	ppm		87
116) Hexachloropropene	5.65	213	92277	25.85	ppm		98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158425.D Vial: 4
Acq On : 28 Jun 2016 1:36 pm Operator: ariellec
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 05 12:36:47 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jul 03 10:17:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

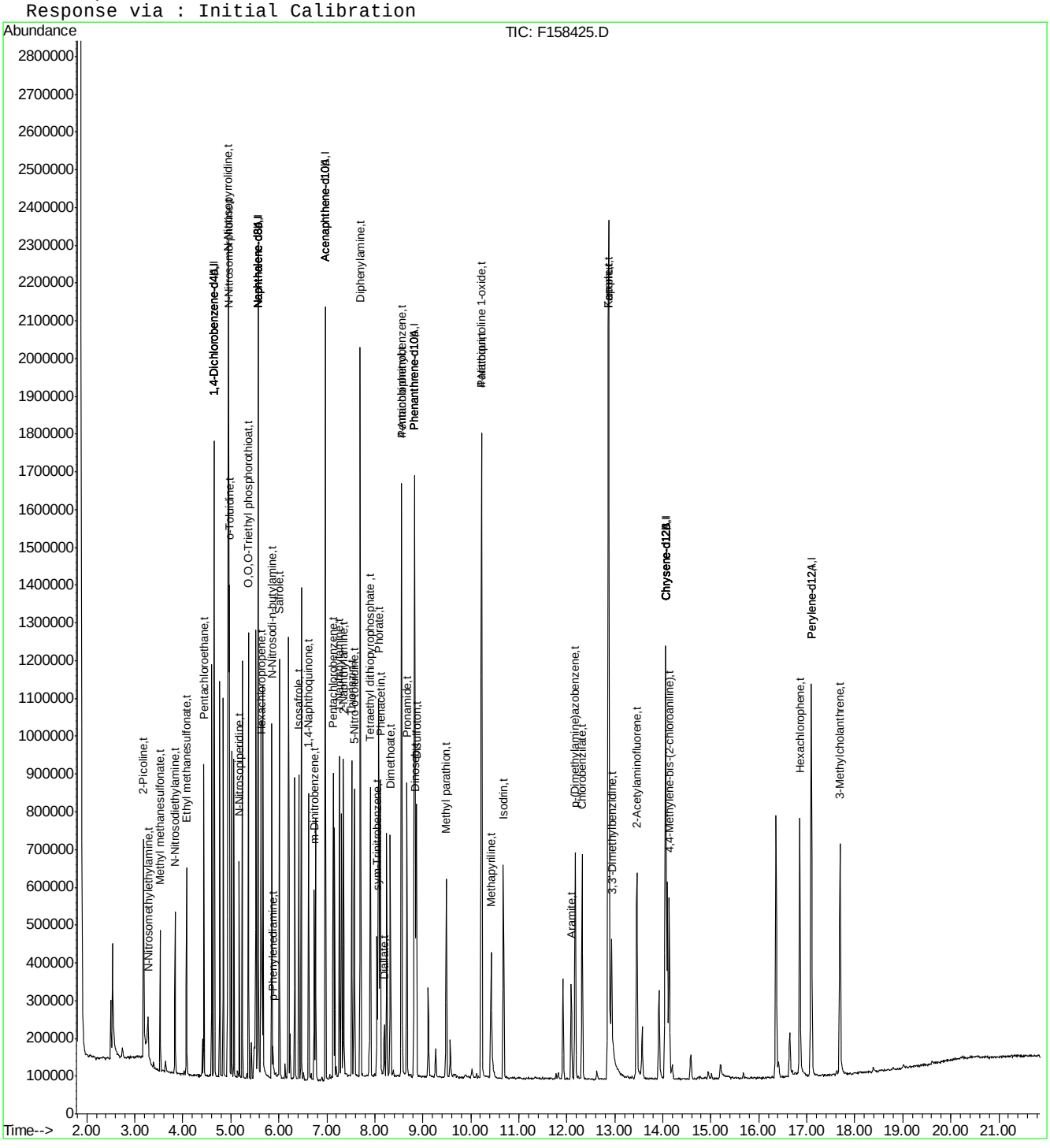
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
117)	p-Phenylenediamine	5.88	108	42691	13.85	ppm		89
118)	N-Nitrosodi-n-butylamine	5.86	84	128920	26.84	ppm		87
119)	Safrole	6.02	162	131735	25.40	ppm		94
120)	Isosafrole	6.42	162	112135	25.95	ppm		94
122)	Thionazin	7.52	143	44755	27.39	ppm		95
123)	Tetraethyl dithiopyrophosp	7.91	322	39755	27.42	ppm		100
124)	Phorate	8.09	75	268154	31.08	ppm		100
125)	Phenacetin	8.12	108	200059	30.45	ppm		94
126)	1,4-Naphthoquinone	6.62	158	111240	27.69	ppm	#	69
127)	m-Dinitrobenzene	6.74	168	56846	30.43	ppm		91
128)	Pentachlorobenzene	7.13	250	109950	24.69	ppm		99
129)	1-Naphthylamine	7.26	143	255944	24.24	ppm		94
130)	2-Naphthylamine	7.35	143	311115	24.32	ppm		96
131)	5-Nitro-o-toluidine	7.57	152	108329	29.60	ppm		85
133)	Disulfoton	8.87	88	200845	27.88	ppm		98
134)	Dinoseb	8.85	211	74253	33.88	ppm		98
135)	Dimethoate	8.32	87	163632	31.19	ppm		96
136)	4-Aminobiphenyl	8.56	169	333746	49.95	ppm		99
137)	Methyl parathion	9.49	125	99894	30.89	ppm		98
138)	Parathion	10.22	109	79115	29.51	ppm		96
139)	Diphenylamine	7.70	169	529330	49.15	ppm		98
140)	Isodrin	10.68	193	54972	26.29	ppm		97
141)	Diallate	8.20	86	29880	26.37	ppm		94
142)	Pentachloronitrobenzene	8.55	295	28418	50.78	ppm		91
143)	Pronamide	8.67	173	154913	28.95	ppm		99
144)	4-Nitroquinoline 1-oxide	10.23	190	187428	141.82	ppm		84
145)	Methapyriline	10.42	58	153860	34.01	ppm		89
146)	sym-Trinitrobenzene	8.05	213	38016	30.72	ppm	#	70
148)	Aramite	12.09	185	32093	56.65	ppm		90
149)	p-(Dimethylamine)azobenzen	12.18	120	174284	26.74	ppm		95
150)	Kepone	12.87	272	145002	132.58	ppm		97
151)	Famphur	12.88	218	809216	150.65	ppm		93
152)	2-Acetylaminofluorene	13.46	181	217569	29.46	ppm		96
153)	3,3'-Dimethylbenzidine	12.93	212	137347	24.36	ppm		96
154)	Chlorobenzilate	12.32	251	125857	29.07	ppm		93
156)	4,4-Methylene-bis-(2-chlor	14.14	266	43799	28.75	ppm		86
157)	3-Methylcholanthrene	17.69	268	213725	27.77	ppm		95
158)	Hexachlorophene	16.86	196	92402	162.61	ppm		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158425.D Vial: 4
Acq On : 28 Jun 2016 1:36 pm Operator: ariellec
Sample : cc6647-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 5 12:46 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jul 03 10:17:52 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158426.D Vial: 5
Acq On : 28 Jun 2016 2:05 pm Operator: ariellec
Sample : cc6660-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 28 15:45:50 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jun 23 10:15:46 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.65	152	192426	40.00	ppm	-0.08
24) Naphthalene-d8	5.57	136	768629	40.00	ppm	-0.08
47) Acenaphthene-d10	6.97	164	443789	40.00	ppm	-0.11
69) Phenanthrene-d10	8.83	188	695583	40.00	ppm	-0.15
83) Chrysene-d12	14.06	240	616805	40.00	ppm	-0.20
92) Perylene-d12	17.09	264	572441	40.00	ppm	-0.21
102) 1,4-Dichlorobenzene-d4A	4.65	152	192426	40.00	ppm	-0.08
112) Naphthalene-d8A	5.57	136	768629	40.00	ppm	-0.08
121) Acenaphthene-d10A	6.97	164	443789	40.00	ppm	-0.11
132) Phenanthrene-d10A	8.83	188	695583	40.00	ppm	-0.15
147) Chrysene-d12A	14.06	240	616805	40.00	ppm	-0.20
155) Perylene-d12A	17.09	264	572441	40.00	ppm	-0.21
159) 1,4-Dichlorobenzene-d4b	4.65	152	192426	40.00	ppm	-0.08
161) Naphthalene-d8b	5.57	136	768629	40.00	ppm	-0.08
163) Acenaphthene-d10b	6.97	164	443789	40.00	ppm	-0.11
165) Phenanthrene-d10b	8.83	188	695583	40.00	ppm	-0.15
167) Chrysene-d12b	14.06	240	616805	40.00	ppm	-0.20
169) 1,4-Dichlorobenzene-d4c	4.65	152	192426	40.00	ppm	-0.08
171) Naphthalene-d8c	5.57	136	768629	40.00	ppm	-0.08
176) Chrysene-d12c	14.06	240	616805	40.00	ppm	-0.20
178) Naphthalene-d8d	5.57	136	768629	40.00	ppm	-0.08
180) Chrysene-d12B	14.06	240	616805	40.00	ppm	-0.20

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
170) m-Toluidine	5.00	106	336510	28.94	ppm	99
172) 2-chloroaniline	5.27	127	234486	26.44	ppm	99
173) 3-chloroaniline	5.61	127	223921	27.70	ppm	96
174) Catechol	5.54	110	180906	28.66	ppm	88
175) 1-chloro-2-nitrobenzene	5.82	75	119482	34.43	ppm	95
177) Bis(2-Ethylhexyl)adipate	13.33	129	216727	24.89	ppm	97

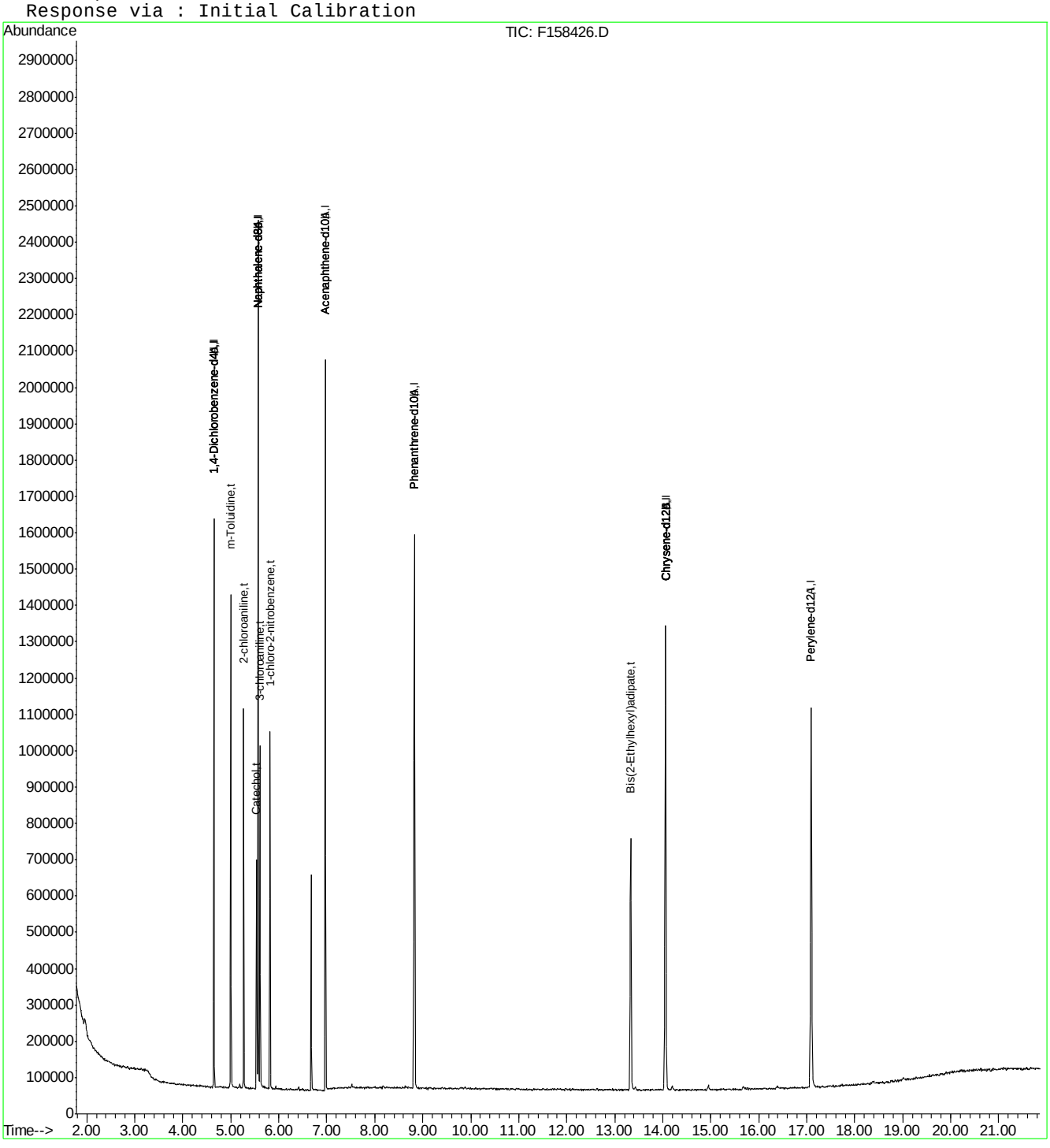
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6668\F158426.D Vial: 5
Acq On : 28 Jun 2016 2:05 pm Operator: ariellec
Sample : cc6660-25 Inst : MSF
Misc : op93756,ef6668 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jul 5 12:48 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Sun Jul 03 10:17:52 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158463B.D Vial: 2
Acq On : 29 Jun 2016 10:58 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 11:25:54 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.77	152	288196	40.00	ppm	0.12
24) Naphthalene-d8	5.69	136	1153121	40.00	ppm	0.11
47) Acenaphthene-d10	7.13	164	664179	40.00	ppm	0.12
69) Phenanthrene-d10	9.05	188	1016781	40.00	ppm	0.15
83) Chrysene-d12	14.35	240	879557	40.00	ppm	0.19
92) Perylene-d12	17.39	264	803011	40.00	ppm	0.19
102) 1,4-Dichlorobenzene-d4b	4.77	152	288196	40.00	ppm	0.12
104) Naphthalene-d8b	5.69	136	1153121	40.00	ppm	0.11
106) Acenaphthene-d10b	7.13	164	664179	40.00	ppm	0.12
108) Phenanthrene-d10b	9.05	188	1016781	40.00	ppm	0.15
110) Chrysene-d12b	14.35	240	879557	40.00	ppm	0.19

System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	536268	49.97	ppm	0.11
Spiked Amount 50.000			Recovery = 99.94%			
8) Phenol-d5	4.53	99	664444	47.83	ppm	0.12
Spiked Amount 50.000			Recovery = 95.66%			
25) Nitrobenzene-d5	5.18	82	576315	49.96	ppm	0.11
Spiked Amount 50.000			Recovery = 99.92%			
51) 2-Fluorobiphenyl	6.51	172	974496	46.63	ppm	0.11
Spiked Amount 50.000			Recovery = 93.26%			
73) 2,4,6-Tribromophenol	8.04	330	101694	55.36	ppm	0.13
Spiked Amount 50.000			Recovery = 110.72%			
85) Terphenyl-d14	12.12	244	864114	49.31	ppm	0.17
Spiked Amount 50.000			Recovery = 98.62%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.34	88	220142	41.61	ppm		99
3) Pyridine	2.67	79	612431	47.18	ppm		99
4) N-Nitrosodimethylamine	2.63	42	171616	52.63	ppm		99
6) Indene	4.96	116	910792	45.17	ppm		100
7) Cumene	4.17	105	1232535	44.89	ppm		99
9) Phenol	4.54	94	748188	47.71	ppm		94
10) Aniline	4.54	93	531443	28.00	ppm		95
11) bis(2-Chloroethyl)ether	4.57	93	526675	45.58	ppm		96
12) 2-Chlorophenol	4.63	128	524224	45.78	ppm		94
13) Decane	4.64	43	379131	42.52	ppm		99
14) 1,3-Dichlorobenzene	4.73	146	572367	45.56	ppm		100
15) 1,4-Dichlorobenzene	4.78	146	579059	45.32	ppm		99
16) Benzyl alcohol	4.88	108	347137	46.22	ppm		94
17) 1,2-Dichlorobenzene	4.89	146	534382	44.63	ppm		99
18) Acetophenone	5.07	105	708404	43.82	ppm		86
19) 2-Methylphenol	4.97	108	482874	44.58	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.96	121	169083	44.20	ppm	#	88
21) 3&4-Methylphenol	5.08	108	530880	46.57	ppm		98
22) n-Nitroso-di-n-propylamine	5.07	70	390409	45.80	ppm		98
23) Hexachloroethane	5.14	201	166614	48.60	ppm		98
26) Nitrobenzene	5.19	77	615192	48.63	ppm		95
27) Quinoline	5.96	129	1044601	46.05	ppm		99
28) Isophorone	5.36	82	975790	45.92	ppm		99

(#) = qualifier out of range (m) = manual integration
F158463B.D MF6644.M Wed Jun 29 16:04:28 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158463B.D Vial: 2
Acq On : 29 Jun 2016 10:58 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 11:25:54 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.42	139	279126	56.07	ppm		95
30)	2,4-Dimethylphenol	5.46	107	480790	44.62	ppm		99
31)	Benzoic acid	5.56	105	429387	57.16	ppm		99
32)	bis(2-Chloroethoxy)methane	5.51	93	614369	45.81	ppm		99
33)	2,4-Dichlorophenol	5.60	162	405972	50.71	ppm		98
34)	2,6-Dichlorophenol	5.75	162	385674	48.31	ppm		99
35)	1,3,5-Trichlorobenzene	5.42	180	422342	45.51	ppm		99
36)	1,2,4-Trichlorobenzene	5.65	180	420353	47.15	ppm		98
37)	1,2,3-Trichlorobenzene	5.81	180	412528	46.55	ppm		99
38)	Naphthalene	5.71	128	1529064	45.69	ppm		99
39)	4-Chloroaniline	5.75	127	501201	36.86	ppm		99
40)	2,3-Dichloroaniline	6.44	161	469684	45.94	ppm		99
41)	Caprolactam	6.02	55	187410	50.63	ppm		98
42)	Hexachlorobutadiene	5.79	225	191280	47.93	ppm		98
43)	4-Chloro-3-methylphenol	6.11	107	459358	49.96	ppm	#	32
44)	2-Methylnaphthalene	6.21	141	834099	47.09	ppm		99
45)	1-Methylnaphthalene	6.29	141	853367	45.62	ppm		98
46)	Dimethylnaphthalene	6.73	156	851683	46.50	ppm		99
48)	Hexachlorocyclopentadiene	6.33	237	429492	105.02	ppm		99
49)	2,4,6-Trichlorophenol	6.44	196	251082	51.35	ppm		99
50)	2,4,5-Trichlorophenol	6.49	196	284097	51.20	ppm		99
52)	2-Chloronaphthalene	6.61	162	895144	46.16	ppm		99
53)	Biphenyl	6.59	154	1164654	45.56	ppm		100
54)	2-Nitroaniline	6.71	65	305080	56.07	ppm		92
55)	Dimethylphthalate	6.86	163	1001560	47.32	ppm		99
56)	Acenaphthylene	6.99	152	1486424	47.79	ppm		99
57)	2,6-Dinitrotoluene	6.92	165	240357	57.37	ppm		97
58)	3-Nitroaniline	7.10	138	270560	50.32	ppm		99
59)	Acenaphthene	7.16	153	933689	46.72	ppm		100
60)	2,4-Dinitrophenol	7.20	184	271283	112.18	ppm		93
61)	4-Nitrophenol	7.29	109	146053	55.28	ppm		99
62)	Dibenzofuran	7.35	168	1215725	45.07	ppm		100
63)	2,4-Dinitrotoluene	7.33	165	326617	57.25	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.49	232	207470	55.46	ppm		97
65)	Diethylphthalate	7.60	149	979522	48.34	ppm		98
66)	Fluorene	7.74	166	999224	47.58	ppm		100
67)	4-Chlorophenyl-phenylether	7.74	204	402100	46.20	ppm		98
68)	4-Nitroaniline	7.78	138	278462	49.91	ppm		99
70)	4,6-Dinitro-2-methylphenol	7.81	198	187225	52.93	ppm		96
71)	n-Nitrosodiphenylamine	7.89	169	683568	48.73	ppm		99
72)	1,2-Diphenylhydrazine	7.93	77	1189622	47.94	ppm		99
74)	4-Bromophenyl-phenylether	8.38	248	223970	49.63	ppm		95
75)	Hexachlorobenzene	8.45	284	218386	45.71	ppm		95
76)	Pentachlorophenol	8.76	266	305953	112.10	ppm		98
77)	Phenanthrene	9.08	178	1441375	46.39	ppm		100
78)	Anthracene	9.16	178	1442897	47.91	ppm		99
79)	Carbazole	9.45	167	1337394	47.44	ppm		99
80)	Di-n-butylphthalate	10.15	149	1701662	54.28	ppm		100
81)	Fluoranthene	11.25	202	1421454	51.51	ppm		99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158463B.D Vial: 2
Acq On : 29 Jun 2016 10:58 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 11:25:54 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.92	57	568962	49.90	ppm	99
84)	Pyrene	11.69	202	1494035	48.18	ppm	99
86)	Butylbenzylphthalate	13.30	149	757855	55.61	ppm	100
88)	Benzo[a]anthracene	14.33	228	1292114	50.43	ppm	100
89)	3,3'-Dichlorobenzidine	14.38	252	472988	54.65	ppm	99
90)	Chrysene	14.41	228	1273840	46.41	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.70	149	1059650	49.71	ppm	98
93)	Di-n-octylphthalate	16.15	149	1830087	53.00	ppm	100
94)	Benzo[b]fluoranthene	16.65	252	1283261	52.07	ppm	98
95)	Benzo[k]fluoranthene	16.71	252	1257048	50.53	ppm	99
96)	Benzo[a]pyrene	17.28	252	1146524	54.21	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.34	276	1080394	55.72	ppm	99
98)	Dibenz(a,h)acridine	18.98	279	945511	56.11	ppm	71
99)	Dibenz[a,h]anthracene	19.40	278	1076663	54.04	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.66	256	548090	50.38	ppm	99
101)	Benzo[g,h,i]perylene	19.78	276	1177041	53.04	ppm	100

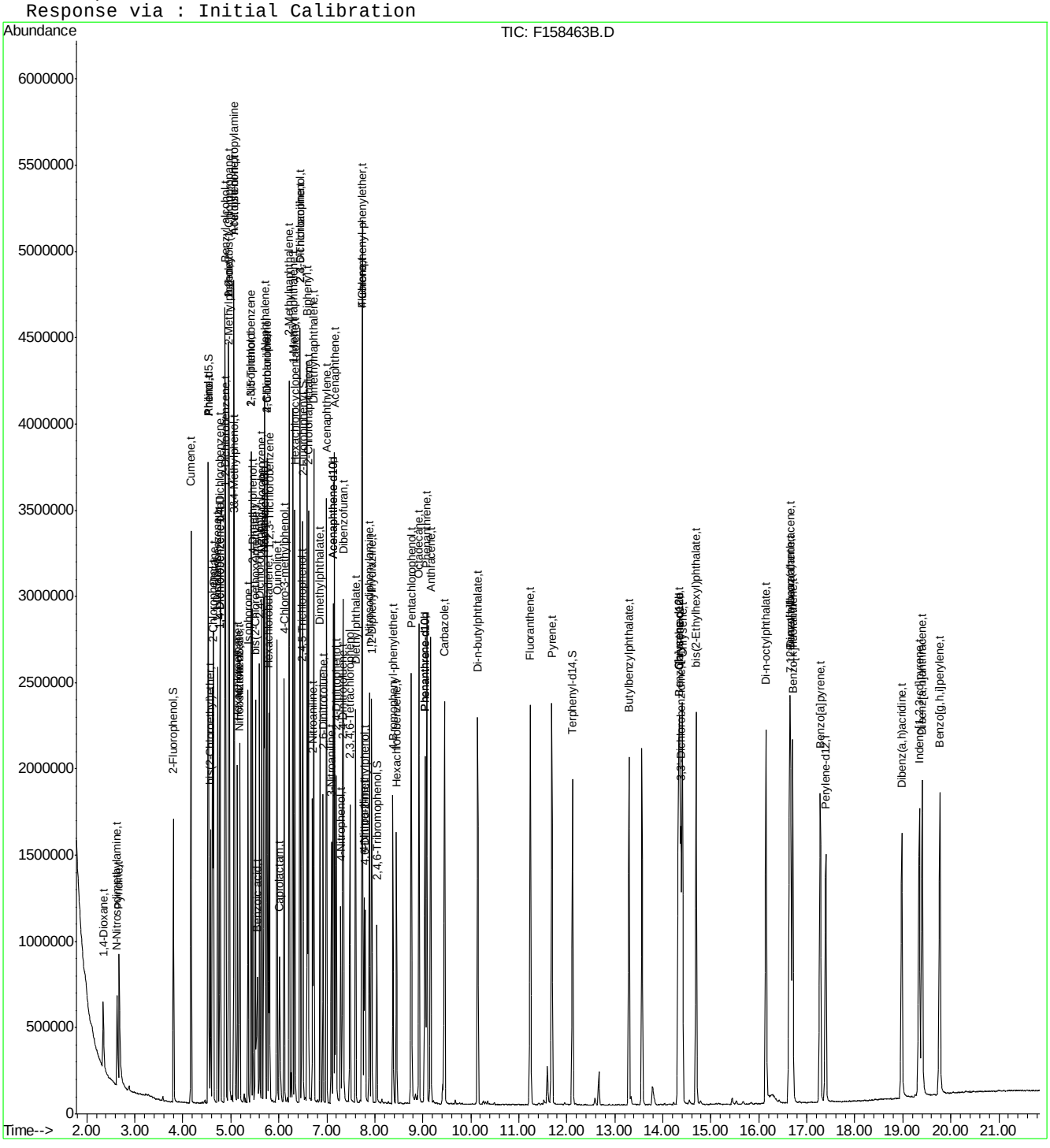
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158463B.D Vial: 2
Acq On : 29 Jun 2016 10:58 am Operator: brittanp
Sample : cc6644-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:04 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158464.D Vial: 3
Acq On : 29 Jun 2016 11:27 am Operator: brittanp
Sample : cc6645-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 11:49:56 2016 Quant Results File: MF6644.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.77	152	255900	40.00	ppm	0.11
24) Naphthalene-d8	5.69	136	1044373	40.00	ppm	0.11
47) Acenaphthene-d10	7.13	164	624929	40.00	ppm	0.12
69) Phenanthrene-d10	9.04	188	988170	40.00	ppm	0.14
83) Chrysene-d12	14.34	240	900139	40.00	ppm	0.18
92) Perylene-d12	17.40	264	850475	40.00	ppm	0.19
102) 1,4-Dichlorobenzene-d4b	4.77	152	255900	40.00	ppm	0.11
104) Naphthalene-d8b	5.69	136	1044373	40.00	ppm	0.11
106) Acenaphthene-d10b	7.13	164	624929	40.00	ppm	0.12
108) Phenanthrene-d10b	9.04	188	988170	40.00	ppm	0.14
110) Chrysene-d12b	14.34	240	900139	40.00	ppm	0.18

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	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
103) Benzaldehyde	4.45	105	370784	52.83	ppm	99
105) Hydroquinone	5.99	110	516776	65.38	ppm	99
107) 1,2,4,5-Tetrachlorobenzene	6.34	216	322757	49.23	ppm	99
109) Atrazine	8.64	200	233436	62.89	ppm	98
111) Benzidine	11.60	184	656281	64.34	ppm	99

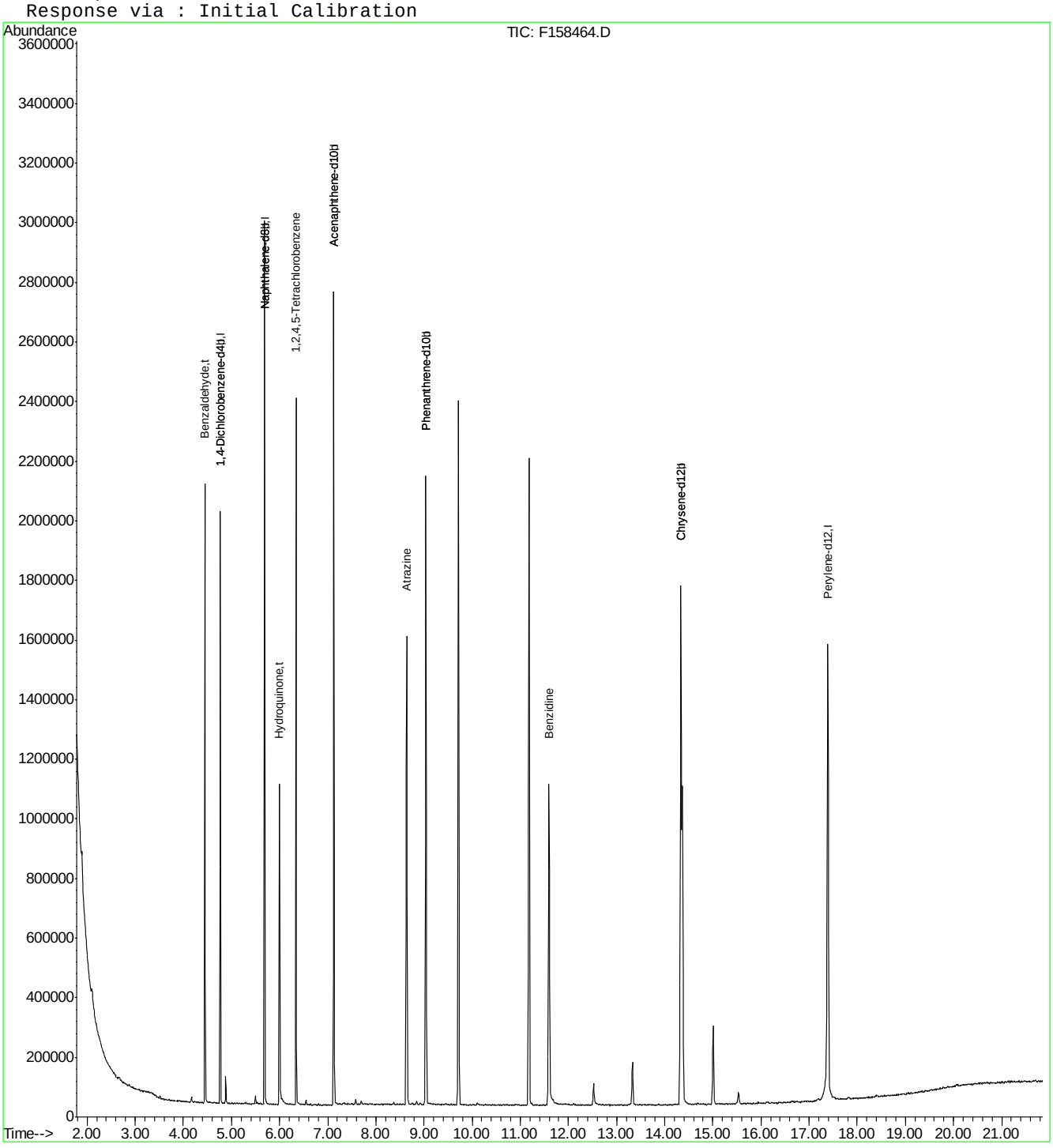
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158464.D Vial: 3
Acq On : 29 Jun 2016 11:27 am Operator: brittanp
Sample : cc6645-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:02 2016 Quant Results File: MF6644.RES

Method : C:\MSDCHEM\1\METHODS\MF6644.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 11:25:52 2016
Response via : Initial Calibration



F158464.D MF6644.M Wed Jun 29 16:03:04 2016 RT1 Page 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/30/16 12:10

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 13:15:48 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.77	152	213076	40.00	ppm	0.03
24) Naphthalene-d8	5.69	136	860538	40.00	ppm	0.04
47) Acenaphthene-d10	7.13	164	502204	40.00	ppm	0.04
69) Phenanthrene-d10	9.05	188	764323	40.00	ppm	0.07
83) Chrysene-d12	14.34	240	655021	40.00	ppm	0.09
92) Perylene-d12	17.39	264	574973	40.00	ppm	0.09
102) 1,4-Dichlorobenzene-d4A	4.77	152	213076	40.00	ppm	0.03
112) Naphthalene-d8A	5.69	136	860538	40.00	ppm	0.04
121) Acenaphthene-d10A	7.13	164	502204	40.00	ppm	0.04
132) Phenanthrene-d10A	9.05	188	764323	40.00	ppm	0.07
147) Chrysene-d12A	14.34	240	655021	40.00	ppm	0.09
155) Perylene-d12A	17.39	264	574973	40.00	ppm	0.09
159) 1,4-Dichlorobenzene-d4b	4.77	152	213076	40.00	ppm	0.03
161) Naphthalene-d8b	5.69	136	860538	40.00	ppm	0.04
163) Acenaphthene-d10b	7.13	164	502204	40.00	ppm	0.04
165) Phenanthrene-d10b	9.05	188	764323	40.00	ppm	0.07
167) Chrysene-d12b	14.34	240	655021	40.00	ppm	0.09
169) 1,4-Dichlorobenzene-d4c	4.77	152	213076	40.00	ppm	0.03
171) Naphthalene-d8c	5.69	136	860538	40.00	ppm	0.04
176) Chrysene-d12c	14.34	240	655021	40.00	ppm	0.09
178) Naphthalene-d8d	5.69	136	860538	40.00	ppm	0.04
180) Chrysene-d12B	14.34	240	655021	40.00	ppm	0.08

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	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
103) 2-Picoline	3.31	93	474055	47.03	ppm	100
104) Pentachloroethane	4.56	167	139026	46.19	ppm	96
105) Methyl methanesulfonate	3.65	80	220130	47.56	ppm	98
106) N-Nitrosodiethylamine	3.96	102	201902	47.16	ppm	96
107) N-Nitrosomethylethylamine	3.40	42	137062	55.32	ppm	85
108) Ethyl methanesulfonate	4.20	79	320648	49.00	ppm	99
109) N-Nitrosopyrrolidine	5.07	41	203505m	93.21	ppm	
110) N-Nitrosomorpholine	5.08	56	174341	51.07	ppm	93
111) o-Toluidine	5.09	106	585258	43.25	ppm	79
113) O,O,O-Triethyl phosphoroth	5.49	198	160848	47.19	ppm	94
114) N-Nitrosopiperidine	5.30	42	183687	57.33	ppm	87
115) A,A-Dimethylphenethylamine	5.89	58	769826m	56.97	ppm	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 13:15:48 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116)	Hexachloropropene	5.76	213	192459	48.36	ppm	98
117)	p-Phenylenediamine	6.00	108	86334m	25.13	ppm	
118)	N-Nitrosodi-n-butylamine	5.98	84	273137	51.01	ppm	84
119)	Safrole	6.14	162	271079	46.88	ppm	87
120)	Isosafrole	6.56	162	216386	44.92	ppm	94
122)	Thionazin	7.69	143	96159	52.35	ppm	99
123)	Tetraethyl dithiopyrophosp	8.09	322	84176	51.66	ppm	100
124)	Phorate	8.28	75	557224	57.45	ppm	100
125)	Phenacetin	8.31	108	422959	57.29	ppm	97
126)	1,4-Naphthoquinone	6.77	158	226080	50.07	ppm	73
127)	m-Dinitrobenzene	6.89	168	118926	56.64	ppm	88
128)	Pentachlorobenzene	7.30	250	226284	45.20	ppm	99
129)	1-Naphthylamine	7.43	143	562453	47.40	ppm	96
130)	2-Naphthylamine	7.52	143	643364	44.75	ppm	98
131)	5-Nitro-o-toluidine	7.76	152	223260	54.28	ppm	91
133)	Disulfoton	9.08	88	442031	55.76	ppm	91
134)	Dinoseb	9.06	211	160565	66.58	ppm	97
135)	Dimethoate	8.53	87	339593	58.83	ppm	99
136)	4-Aminobiphenyl	8.77	169	681557	92.70	ppm	99
137)	Methyl parathion	9.71	125	206540	58.04	ppm	95
138)	Parathion	10.46	109	167121	56.65	ppm	96
139)	Diphenylamine	7.89	169	1098722	92.71	ppm	99
140)	Isodrin	10.93	193	111557	48.50	ppm	98
141)	Diallate	8.27	86	336163	269.64	ppm	80
142)	Pentachloronitrobenzene	8.77	295	59210	96.17	ppm	93
143)	Pronamide	8.88	173	321136	54.55	ppm	98
144)	4-Nitroquinoline 1-oxide	10.48	190	415439	285.70	ppm	89
145)	Methapyriline	10.71	58	288727m	58.01	ppm	
146)	sym-Trinitrobenzene	8.24	213	81670	59.99	ppm	86
148)	Aramite	12.34	185	70262	117.40	ppm	93
149)	p-(Dimethylamine)azobenzen	12.44	120	371509	53.96	ppm	98
150)	Kepone	13.15	272	176782	153.01	ppm	100
151)	Famphur	13.14	218	1202789	211.96	ppm	93
152)	2-Acetylaminofluorene	13.74	181	463528	59.42	ppm	96
153)	3,3'-Dimethylbenzidine	13.20	212	169160	28.40	ppm	95
154)	Chlorobenzilate	12.58	251	260227	56.90	ppm	94
156)	4,4-Methylene-bis-(2-chlor	14.41	266	81389	51.60	ppm	96
157)	3-Methylcholanthrene	17.99	268	421734	52.93	ppm	97
158)	Hexachlorophene	17.14	196	146382	248.79	ppm	100

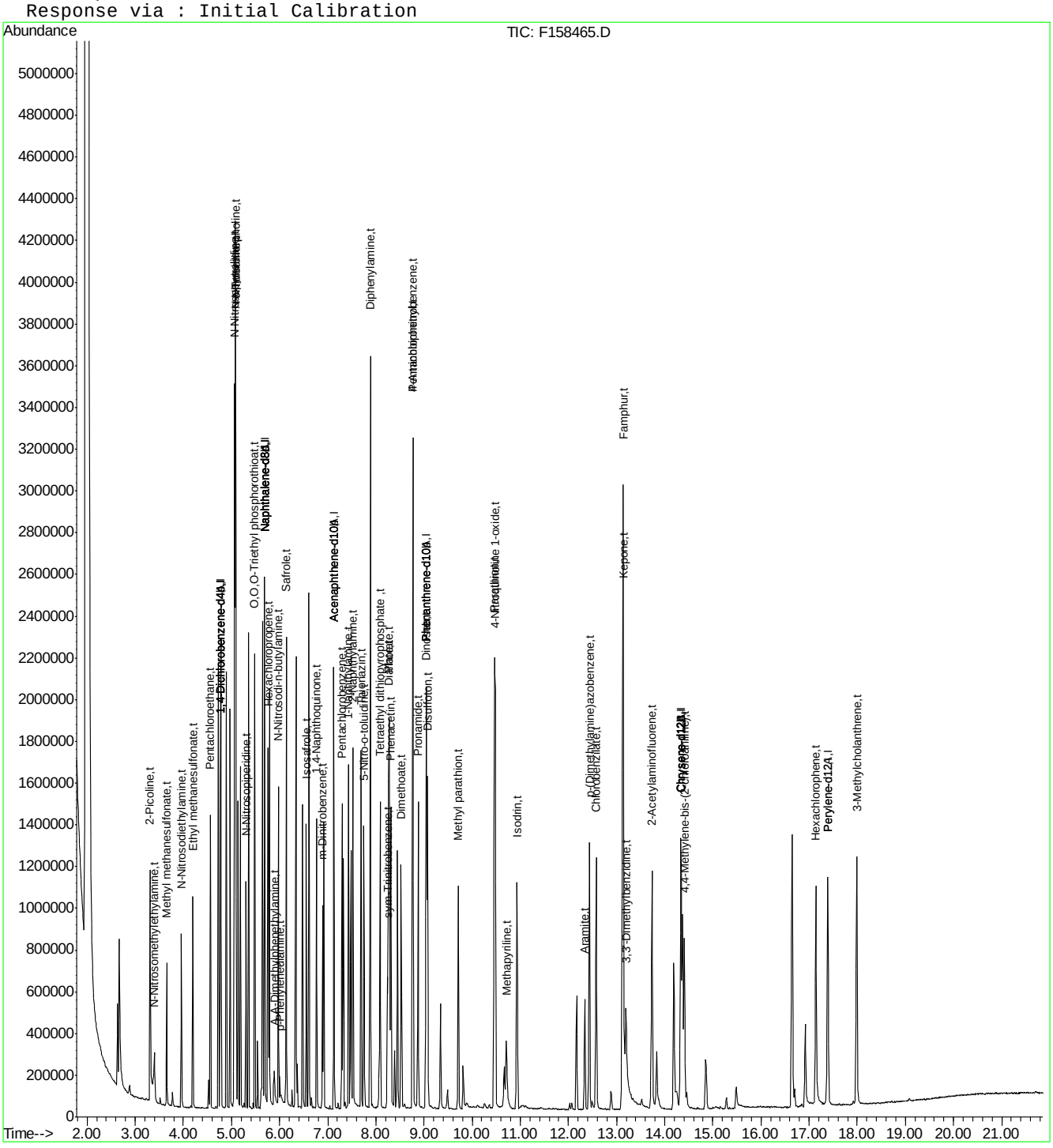
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:46 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

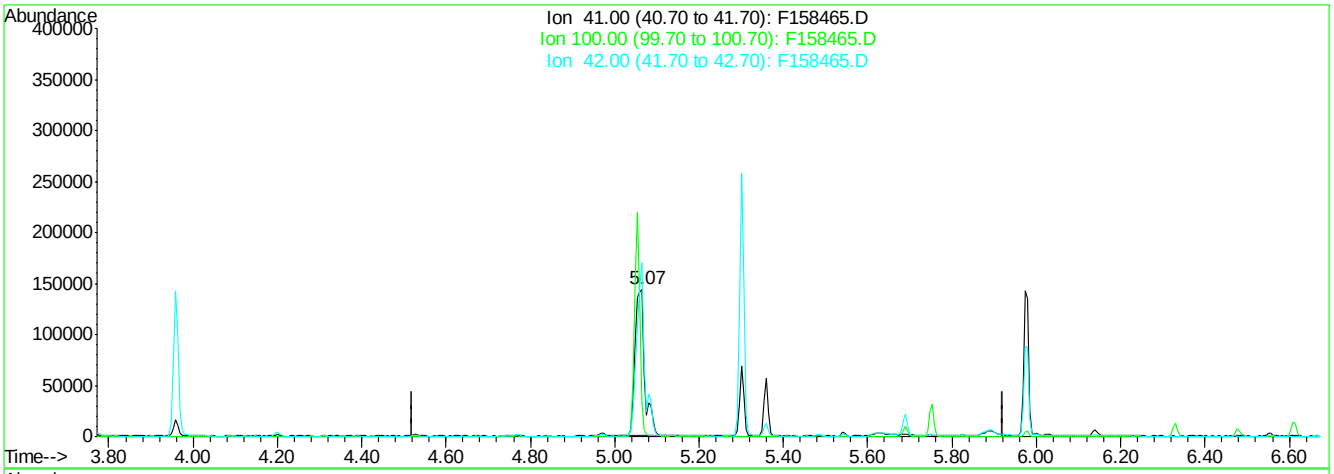
Sample Number:	EF6670-CC6647	**Method:**	SW846 8270D
Lab FileID:	F158465.D	**Analyst approved:**	06/29/16 17:00 Julius Johnson
Injection Time:	06/29/16 11:56	**Supervisor approved:**	06/30/16 12:10 Nina Pandya

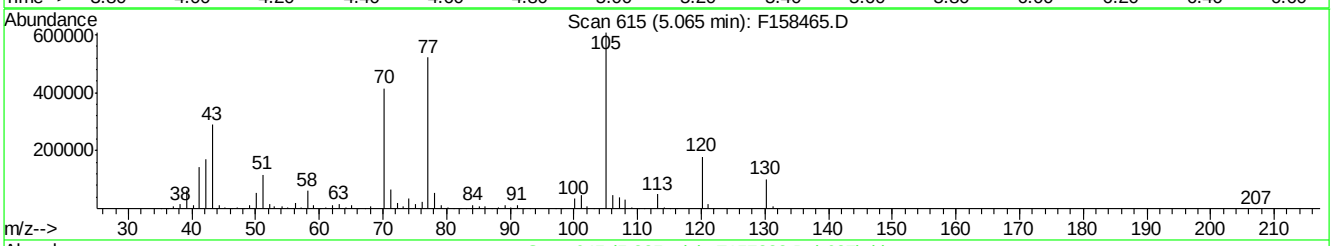
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.07	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.89	Poor instrument integration
p-Phenylenediamine	106-50-3		6.00	Poor instrument integration
Methapyrilene	91-80-5		10.71	Split peak

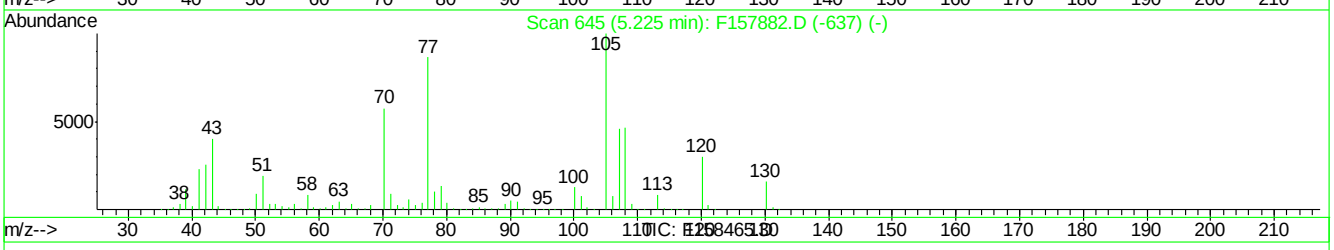
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:44 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.07min 106.00ppm

response 231439

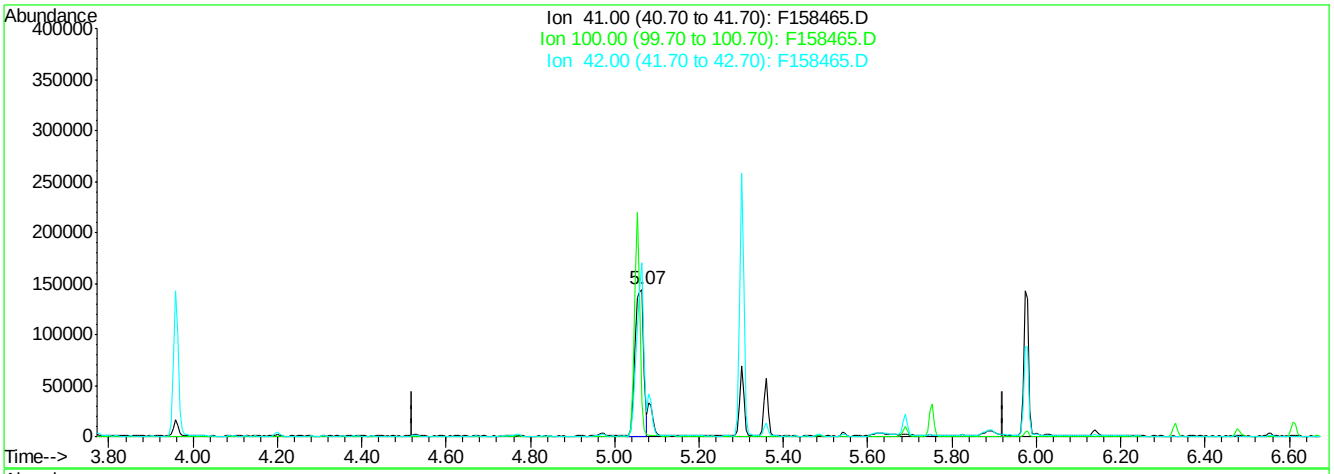
Ion	Exp%	Act%
41.00	100	100
100.00	130.00	23.43#
42.00	79.80	118.22#
0.00	0.00	0.00

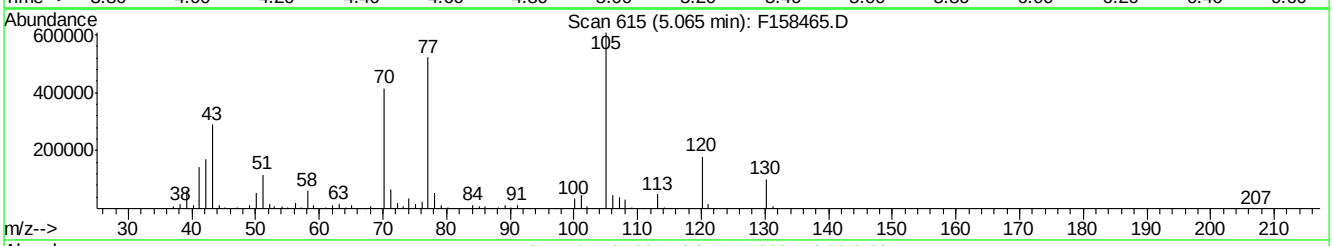
F158465.D MF6644AP9.M Wed Jun 29 16:44:57 2016 RT1

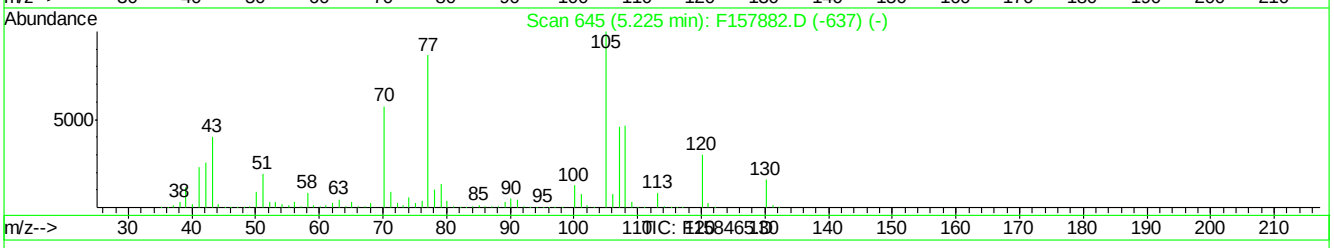
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.07min 93.21ppm m

response 203505

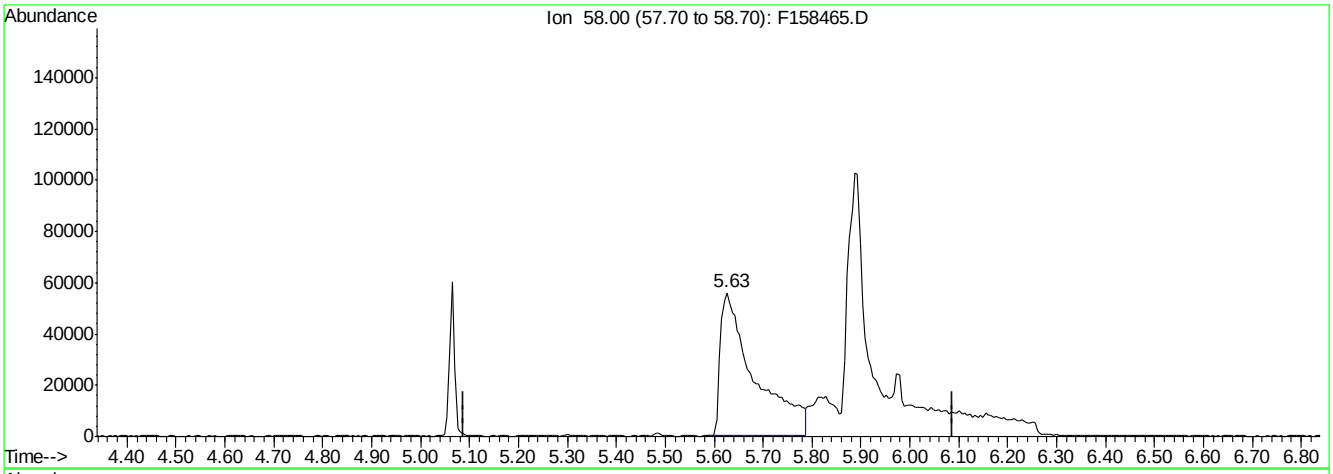
Ion	Exp%	Act%
41.00	100	100
100.00	130.00	23.43#
42.00	79.80	118.09#
0.00	0.00	0.00

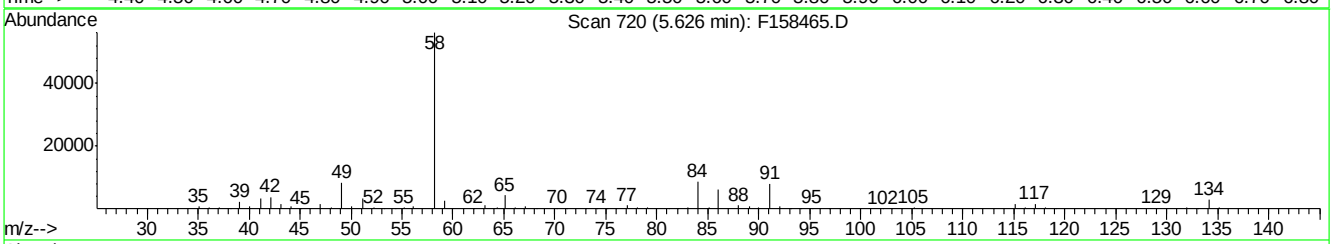
F158465.D MF6644AP9.M Wed Jun 29 16:45:11 2016 RT1

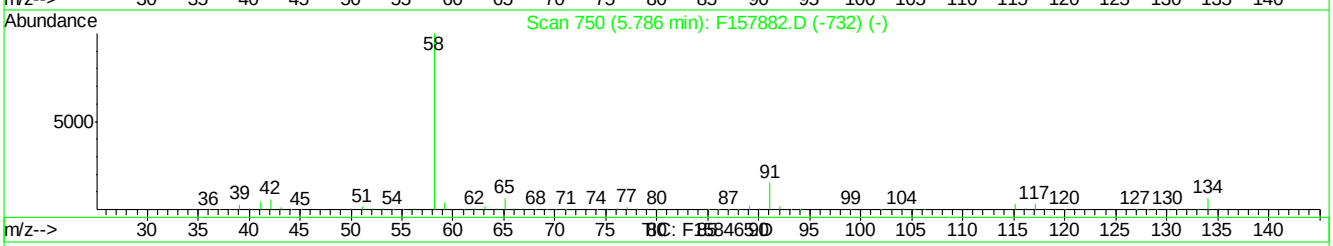
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.63min 20.23ppm

response 273425

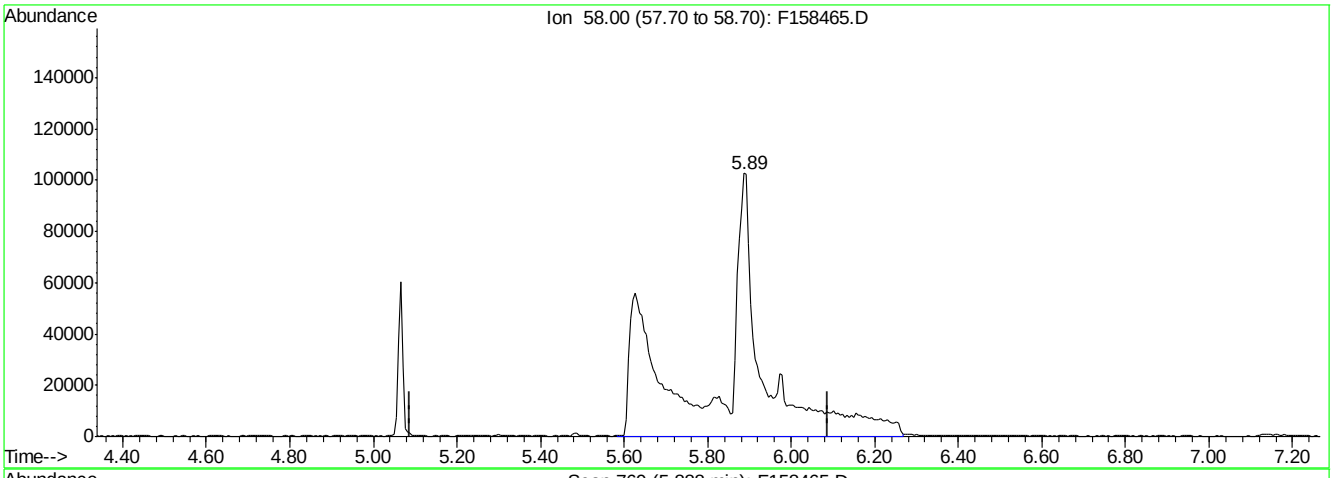
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

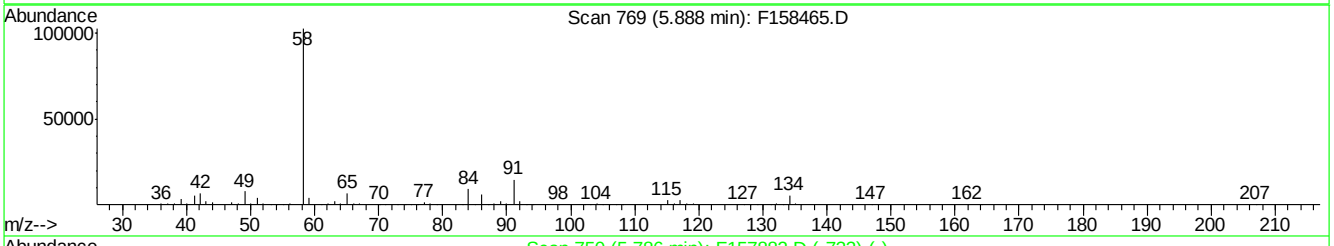
F158465.D MF6644AP9.M Wed Jun 29 16:45:17 2016 RT1

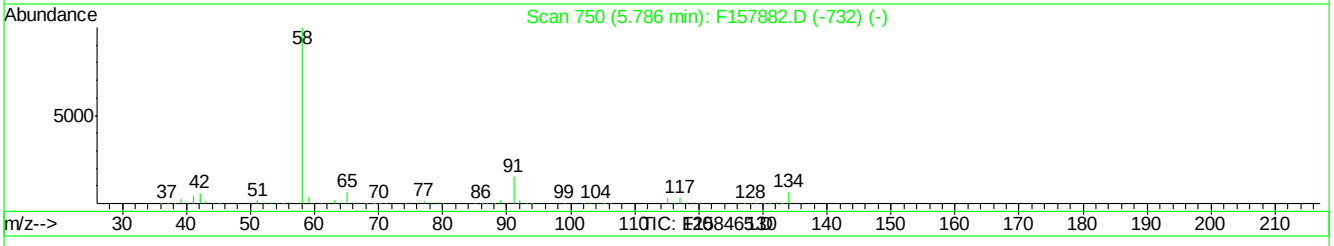
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.89min 56.97ppm m

response 769826

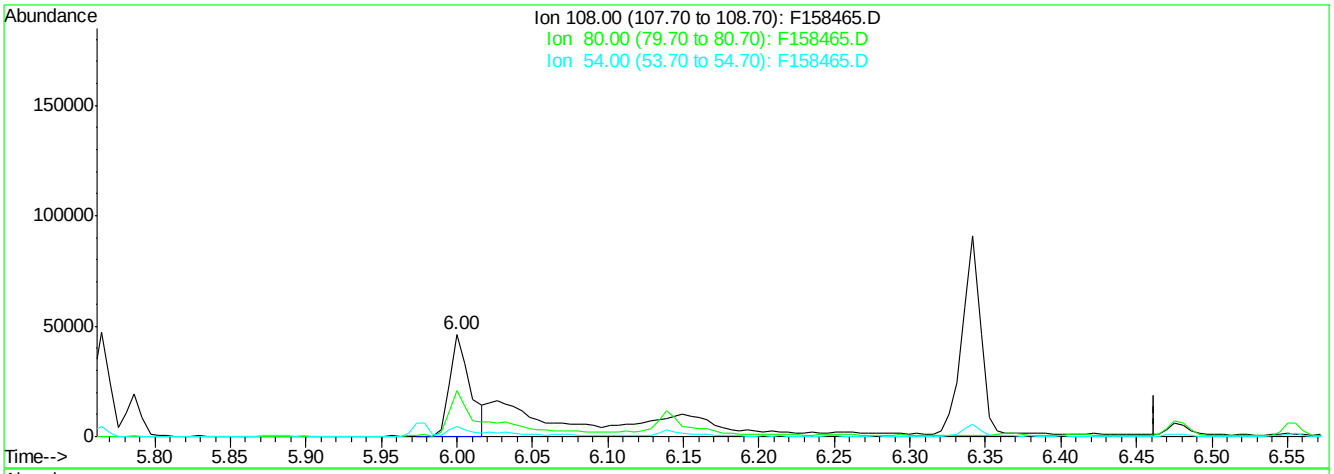
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

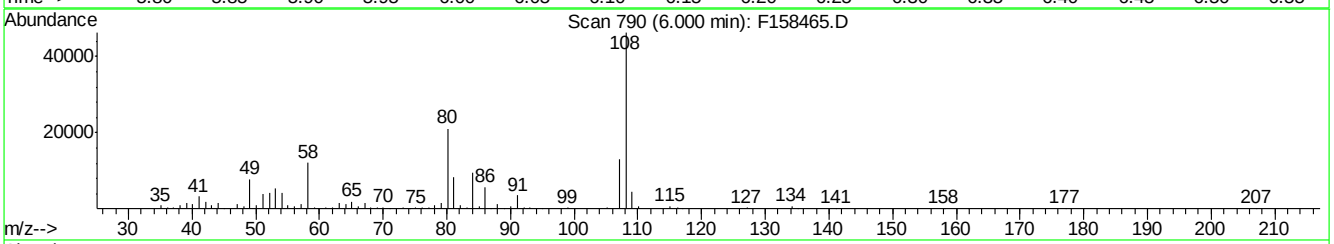
F158465.D MF6644AP9.M Wed Jun 29 16:45:22 2016 RT1

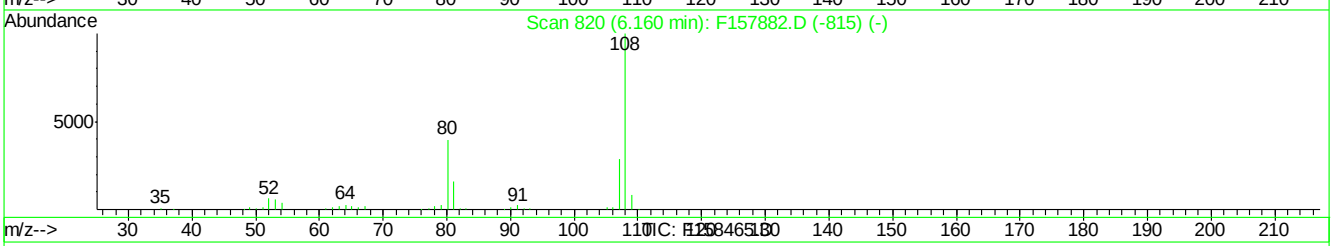
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.00min 12.81ppm

response 44004

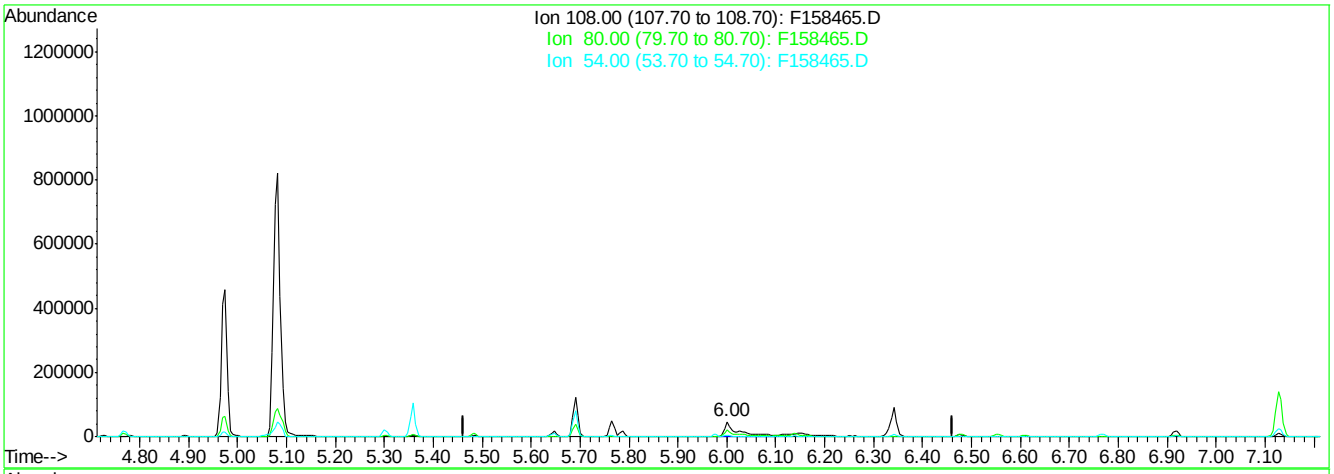
Ion	Exp%	Act%
108.00	100	100
80.00	37.70	44.76
54.00	9.90	1.78
0.00	0.00	0.00

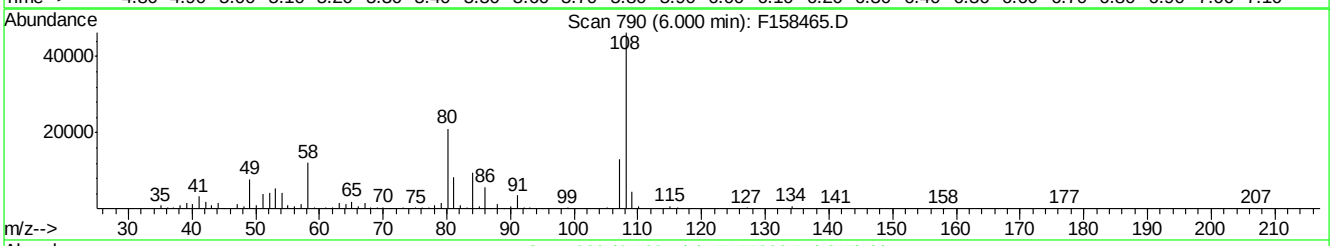
F158465.D MF6644AP9.M Wed Jun 29 16:45:28 2016 RT1

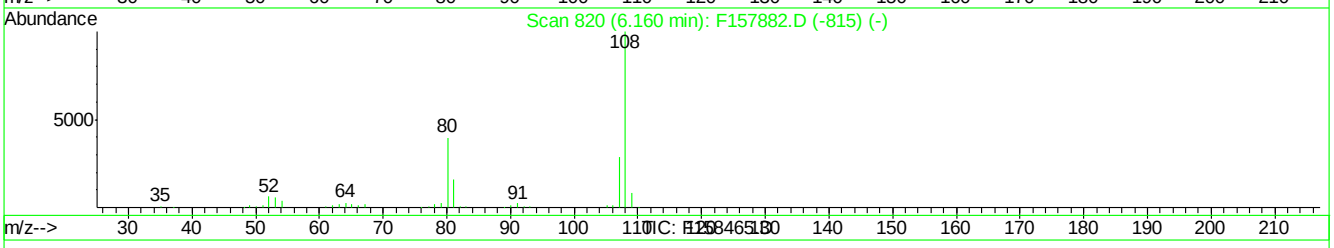
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.00min 25.13ppm m

response 86334

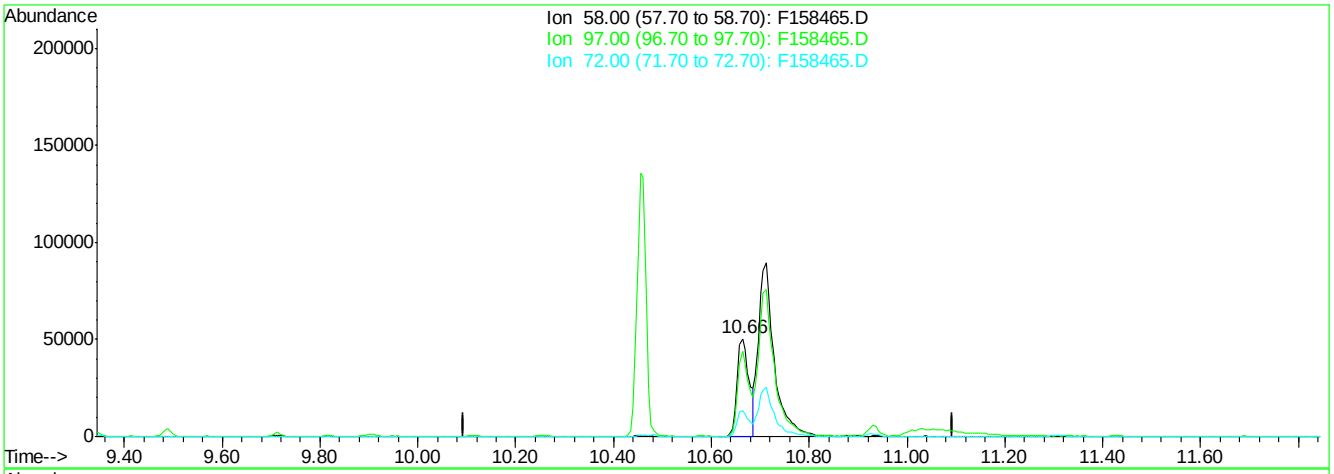
Ion	Exp%	Act%
108.00	100	100
80.00	37.70	45.51
54.00	9.90	9.51
0.00	0.00	0.00

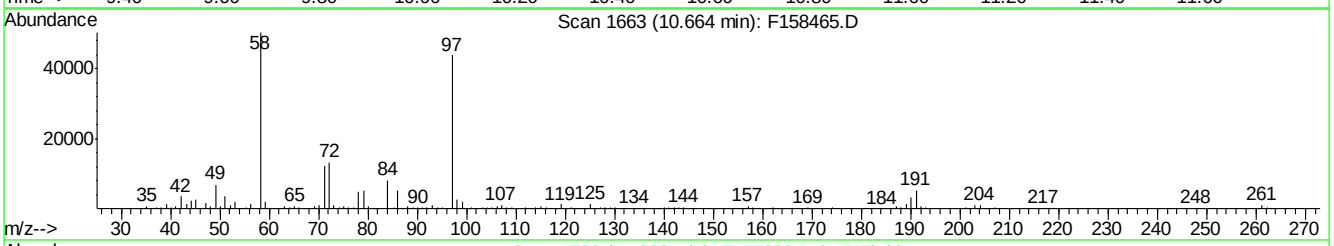
F158465.D MF6644AP9.M Wed Jun 29 16:45:34 2016 RT1

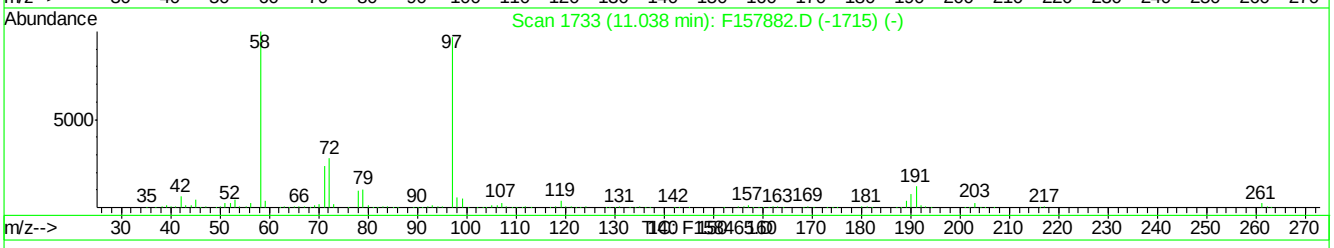
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.66min 17.68ppm

response 87975

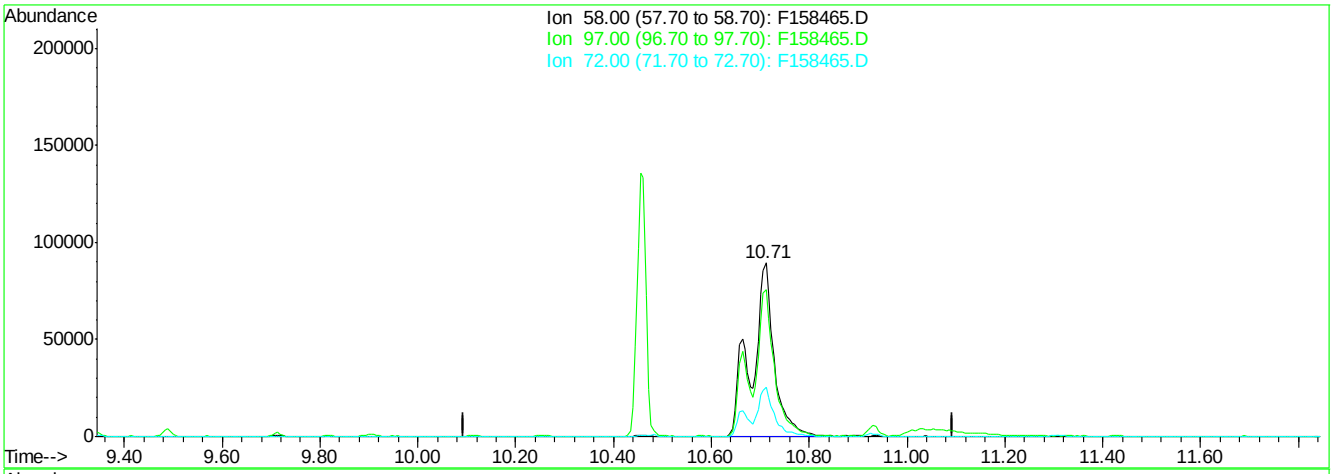
Ion	Exp%	Act%
58.00	100	100
97.00	78.50	88.63
72.00	23.90	26.96
0.00	0.00	0.00

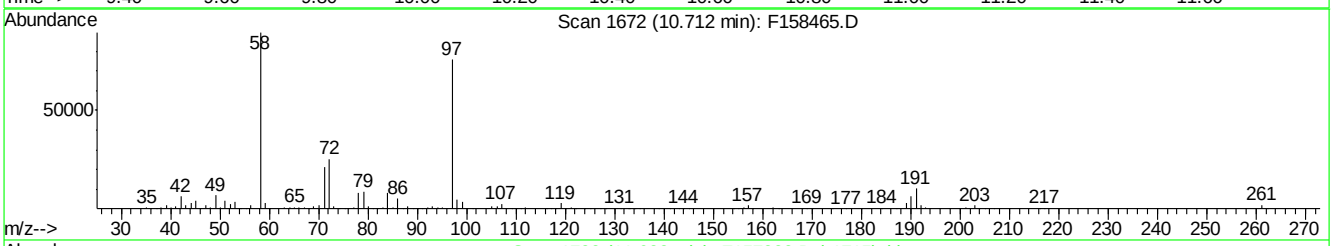
F158465.D MF6644AP9.M Wed Jun 29 16:45:51 2016 RT1

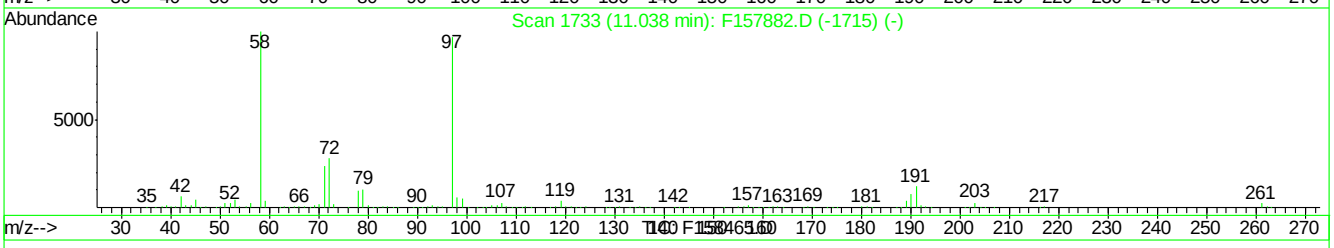
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158465.D Vial: 4
Acq On : 29 Jun 2016 11:56 am Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.71min 58.01ppm m

response 288727

Ion	Exp%	Act%
58.00	100	100
97.00	78.50	84.60
72.00	23.90	28.38
0.00	0.00	0.00

F158465.D MF6644AP9.M Wed Jun 29 16:45:56 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158466.D Vial: 5
Acq On : 29 Jun 2016 12:25 pm Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:47:04 2016 Quant Results File: MF6644AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Initial Calibration
DataAcq Meth : MF6644

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.77	152	269147	40.00	ppm	0.03
24) Naphthalene-d8	5.69	136	1082896	40.00	ppm	0.04
47) Acenaphthene-d10	7.13	164	625194	40.00	ppm	0.05
69) Phenanthrene-d10	9.04	188	974898	40.00	ppm	0.06
83) Chrysene-d12	14.34	240	866955	40.00	ppm	0.09
92) Perylene-d12	17.39	264	797622	40.00	ppm	0.09
102) 1,4-Dichlorobenzene-d4A	4.77	152	269147	40.00	ppm	0.03
112) Naphthalene-d8A	5.69	136	1082896	40.00	ppm	0.04
121) Acenaphthene-d10A	7.13	164	625194	40.00	ppm	0.05
132) Phenanthrene-d10A	9.04	188	974898	40.00	ppm	0.06
147) Chrysene-d12A	14.34	240	866955	40.00	ppm	0.09
155) Perylene-d12A	17.39	264	797622	40.00	ppm	0.09
159) 1,4-Dichlorobenzene-d4b	4.77	152	269147	40.00	ppm	0.03
161) Naphthalene-d8b	5.69	136	1082896	40.00	ppm	0.04
163) Acenaphthene-d10b	7.13	164	625194	40.00	ppm	0.05
165) Phenanthrene-d10b	9.04	188	974898	40.00	ppm	0.06
167) Chrysene-d12b	14.34	240	866955	40.00	ppm	0.09
169) 1,4-Dichlorobenzene-d4c	4.77	152	269147	40.00	ppm	0.03
171) Naphthalene-d8c	5.69	136	1082896	40.00	ppm	0.04
176) Chrysene-d12c	14.34	240	866955	40.00	ppm	0.09
178) Naphthalene-d8d	5.69	136	1082896	40.00	ppm	0.04
180) Chrysene-d12B	14.34	240	866955	40.00	ppm	0.08

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%			

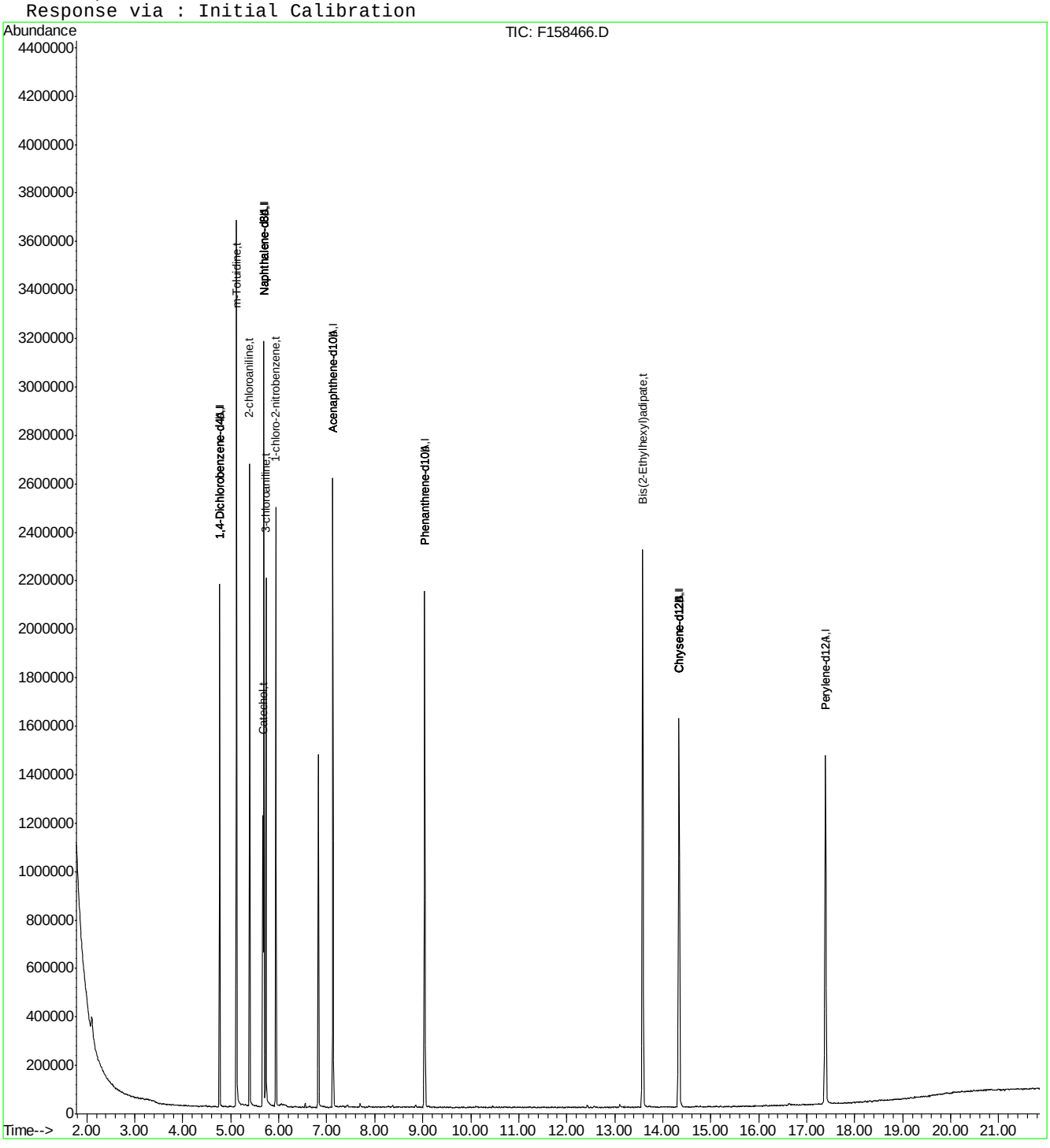
Target Compounds						Qvalue
170) m-Toluidine	5.12	106	896947	55.14	ppm	99
172) 2-chloroaniline	5.39	127	639103	51.14	ppm	99
173) 3-chloroaniline	5.73	127	600727	52.75	ppm	97
174) Catechol	5.67	110	516932	58.12	ppm	94
175) 1-chloro-2-nitrobenzene	5.94	75	339068	69.35	ppm	96
177) Bis(2-Ethylhexyl)adipate	13.58	129	675966	51.57	ppm	97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6670\F158466.D Vial: 5
Acq On : 29 Jun 2016 12:25 pm Operator: brittanp
Sample : cc6647-50 Inst : MSF
Misc : op93756,ef6670 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Jun 29 16:48 2016 Quant Results File: MF6644AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6644AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:18:24 2016
Response via : Initial Calibration



F158466.D MF6644AP9.M Wed Jun 29 16:48:33 2016 RT1 Page 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.648	152	151199	40.00	ppm	0.00
24) Naphthalene-d8	5.572	136	567296	40.00	ppm	0.00
47) Acenaphthene-d10	6.961	164	349025	40.00	ppm	0.00
69) Phenanthrene-d10	8.805	188	592475	40.00	ppm	0.00
83) Chrysene-d12	14.029	240	531836	40.00	ppm	0.00
91) Perylene-d12	17.053	264	489491	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.648	152	151199	40.00	ppm	0.00
103) Phenanthrene-d10a	8.805	188	592475	40.00	ppm	0.00
107) Chrysene-d12a	14.029	240	531836	40.00	ppm	0.00
109) Acenaphthene-d10a	6.961	164	349025	40.00	ppm	0.00
111) Naphthalene-d8a	5.572	136	567296	40.00	ppm	0.00
113) Chrysene-d12b	14.029	240	531836	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.660	112	511563	98.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	197.18%	
8) Phenol-d5	4.386	99	633450	96.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	193.36%	
25) Nitrobenzene-d5	5.054	82	532502	101.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	202.78%	
51) 2-Fluorobiphenyl	6.363	172	952494	85.82	ppm	0.00
Spiked Amount 50.000			Recovery	=	171.64%	
73) 2,4,6-Tribromophenol	7.838	330	131642	102.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	204.24%	
85) Terphenyl-d14	11.823	244	1086800	95.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	190.26%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	218568	96.22	ppm	97
3) Pyridine	2.490	79	580351	93.20	ppm	98
4) N-Nitrosodimethylamine	2.463	74	339657	99.22	ppm	90
6) Indene	4.835	116	766731	88.05	ppm	96
7) Cumene	4.055	105	1216004	93.41	ppm	99
9) Phenol	4.397	94	676304	94.16	ppm	68
10) Aniline	4.403	93	667425	84.94	ppm	97
11) bis(2-Chloroethyl)ether	4.456	93	438974	93.27	ppm	98
12) 2-Chlorophenol	4.499	128	495562	89.31	ppm	98
13) Decane	4.536	43	413376	87.84	ppm	97
14) 1,3-Dichlorobenzene	4.606	146	544820	89.91	ppm	97
15) 1,4-Dichlorobenzene	4.659	146	532756	87.98	ppm	97
16) Benzyl alcohol	4.755	108	316484	94.74	ppm	90
17) 1,2-Dichlorobenzene	4.776	146	477241	86.79	ppm	99
18) Acetophenone	4.947	105	615062	86.18	ppm	95
19) 2-Methylphenol	4.835	108	404102	87.99	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.851	121	134717	93.99	ppm #	63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.947	108	428328	88.78	ppm	97
22) n-Nitroso-di-n-propyla...	4.947	70	333270	85.90	ppm	94
23) Hexachloroethane	5.022	201	186784	90.75	ppm	98
26) Nitrobenzene	5.065	77	517146	95.81	ppm	99
27) Quinoline	5.834	129	1029371	94.57	ppm	99
28) Isophorone	5.241	82	944984	92.14	ppm	99
29) 2-Nitrophenol	5.295	139	273469	108.73	ppm	85
30) 2,4-Dimethylphenol	5.327	107	470951	92.26	ppm	96
31) Benzoic Acid	5.439	105	350437	147.21	ppm	95
32) bis(2-Chloroethoxy)met...	5.391	93	536399	93.88	ppm	99
33) 2,4-Dichlorophenol	5.471	162	401930	93.97	ppm	99
34) 2,6-Dichlorophenol	5.631	162	371393	91.08	ppm	97
35) 1,3,5-Trichlorobenzene	5.305	180	435039	89.37	ppm	98
36) 1,2,4-Trichlorobenzene	5.530	180	430232	91.46	ppm	99
37) 1,2,3-Trichlorobenzene	5.690	180	406107	89.36	ppm	97
38) Naphthalene	5.588	128	1347643	89.96	ppm	99
39) 4-Chloroaniline	5.626	127	566536	89.44	ppm	95
40) 2,3-Dichloroaniline	6.299	161	474180	89.60	ppm	97
41) Caprolactam	5.898	55	207686m	94.77	ppm	
42) Hexachlorobutadiene	5.679	225	228898	89.31	ppm	99
43) 4-Chloro-3-methylphenol	5.973	107	442272	96.78	ppm	94
44) 2-Methylnaphthalene	6.085	141	784642	90.38	ppm	97
45) 1-Methylnaphthalene	6.160	141	805506	89.46	ppm	96
46) Dimethylnaphthalene	6.582	156	835894	90.53	ppm	98
48) Hexachlorocyclopentadiene	6.208	237	529169	183.13	ppm	99
49) 2,4,6-Trichlorophenol	6.304	196	270768	89.54	ppm	99
50) 2,4,5-Trichlorophenol	6.336	196	310895	90.11	ppm	100
52) 2-Chloronaphthalene	6.470	162	856144	85.37	ppm	97
53) Biphenyl	6.449	154	1141594	87.68	ppm	100
54) 2-Nitroaniline	6.550	65	289987	109.62	ppm	99
55) Dimethylphthalate	6.705	163	1050590	90.01	ppm	99
56) Acenaphthylene	6.833	152	1465120	88.48	ppm	100
57) 2,6-Dinitrotoluene	6.764	165	237193	116.25	ppm	99
58) 3-Nitroaniline	6.919	138	289280	114.61	ppm	97
59) Acenaphthene	6.999	153	873137	86.55	ppm	98
60) 2,4-Dinitrophenol	7.026	184	245567	329.34	ppm	95
61) 4-Nitrophenol	7.084	109	158245	112.41	ppm	86
62) Dibenzofuran	7.175	168	1219933	86.22	ppm	96
63) 2,4-Dinitrotoluene	7.154	165	332015	127.85	ppm	90
64) 2,3,4,6-Tetrachlorophenol	7.303	232	267873	96.55	ppm	96
65) Diethylphthalate	7.416	149	1056113	88.06	ppm	99
66) Fluorene	7.549	166	968022	85.23	ppm	98
67) 4-Chlorophenyl-phenyle...	7.544	204	449612	84.40	ppm	98
68) 4-Nitroaniline	7.581	138	289617	107.99	ppm	90
70) 4,6-Dinitro-2-methylph...	7.613	198	195274	153.72	ppm	96
71) n-Nitrosodiphenylamine	7.688	169	731829	90.71	ppm	98
72) 1,2-Diphenylhydrazine	7.736	77	1066412	91.33	ppm	98
74) 4-Bromophenyl-phenylether	8.163	248	294951	93.25	ppm	98
75) Hexachlorobenzene	8.254	284	302142	87.76	ppm	92
76) Pentachlorophenol	8.537	266	428966	221.23	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration

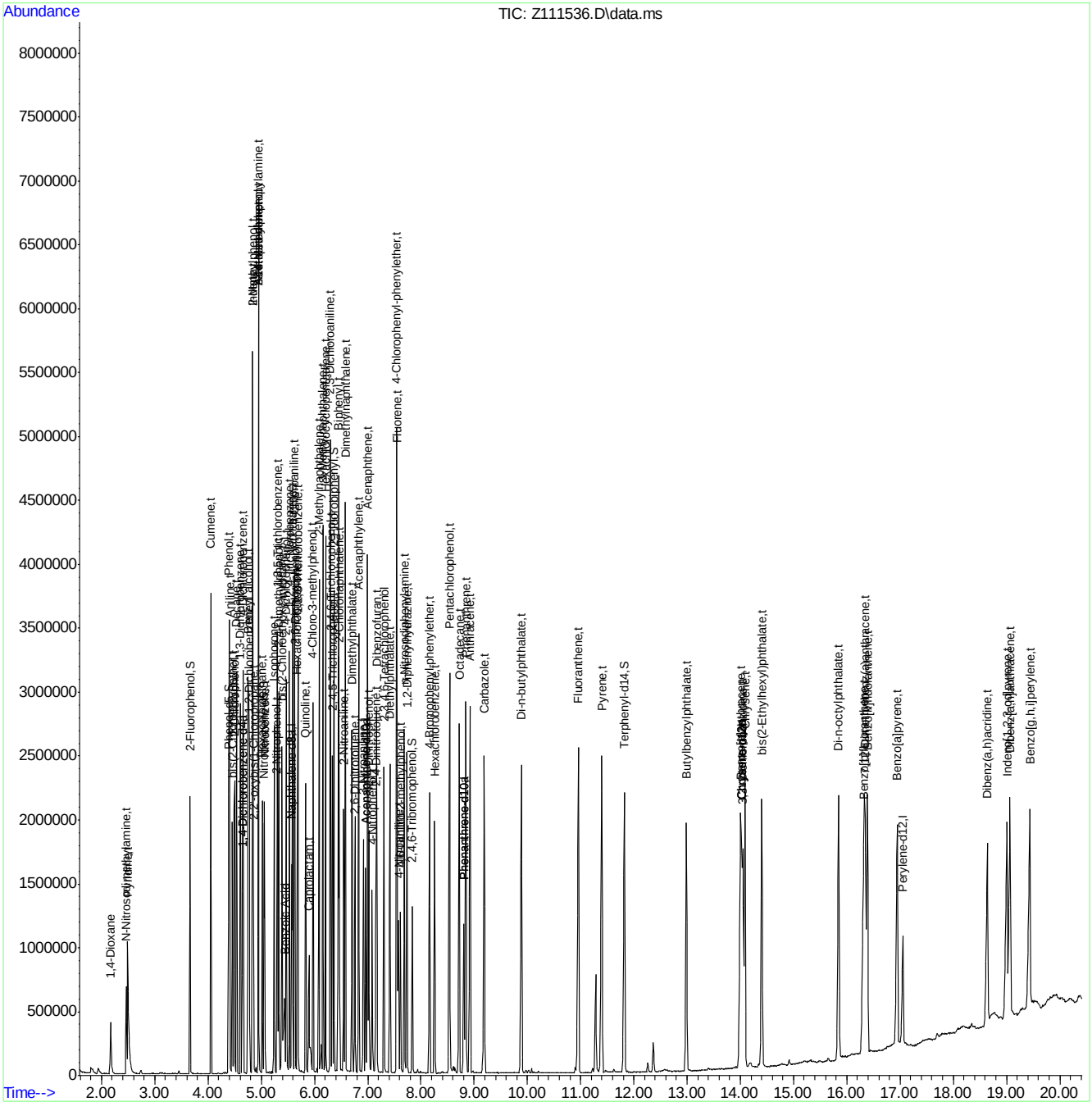
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.842	178	1464546	89.13	ppm	99
78)	Anthracene	8.922	178	1493732	89.60	ppm	99
79)	Carbazole	9.195	167	1454603	90.35	ppm	99
80)	Di-n-butylphthalate	9.889	149	1883022	95.33	ppm	99
81)	Fluoranthene	10.957	202	1663198	93.01	ppm	98
82)	Octadecane	8.719	57	595548	90.67	ppm	98
84)	Pyrene	11.396	202	1709755	94.91	ppm	99
86)	Butylbenzylphthalate	12.988	149	814773	100.14	ppm	93
87)	Benzo[a]anthracene	14.003	228	1530626	92.47	ppm	99
88)	3,3'-Dichlorobenzidine	14.051	252	564745	95.93	ppm	98
89)	Chrysene	14.093	228	1441674	93.23	ppm	98
90)	bis(2-Ethylhexyl)phtha...	14.403	149	1092106	97.96	ppm	96
92)	Di-n-octylphthalate	15.846	149	1856654	93.60	ppm	99
93)	Benzo[b]fluoranthene	16.316	252	1506024	92.53	ppm	97
94)	Benzo[k]fluoranthene	16.391	252	1318322	85.44	ppm	98
95)	Benzo[a]pyrene	16.951	252	1293504	89.34	ppm	99
96)	Indeno[1,2,3-cd]pyrene	19.008	276	1189083	91.98	ppm	94
97)	Dibenz(a,h)acridine	18.645	279	1105235	91.92	ppm	99
98)	Dibenz[a,h]anthracene	19.067	278	1261325	94.04	ppm	94
99)	7,12-Dimethylbenz(a)an...	16.348	256	670504	94.80	ppm	97
100)	Benzo[g,h,i]perylene	19.441	276	1228504	91.06	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

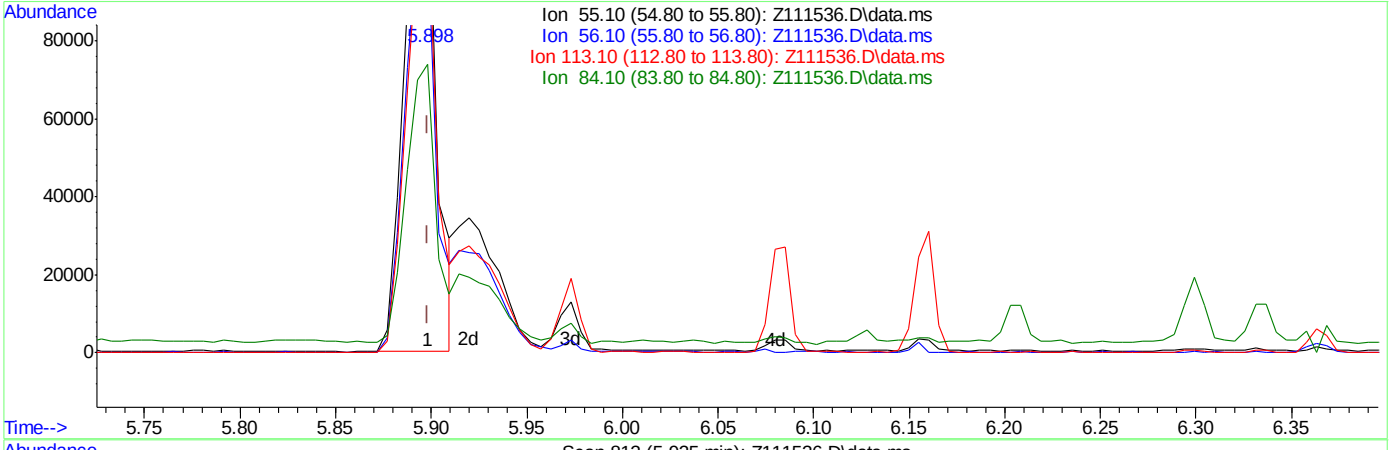
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111536.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 17:00	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

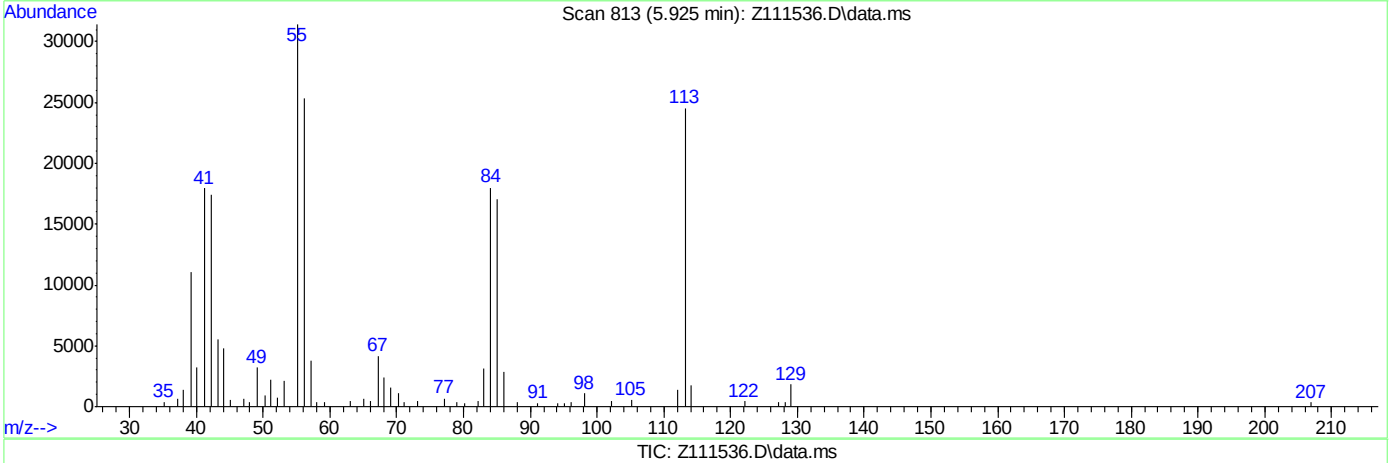
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.90	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:52:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration





TIC: Z111536.D\data.ms

(41) Caprolactam (t)

5.898min (0.000) 69.87ppm

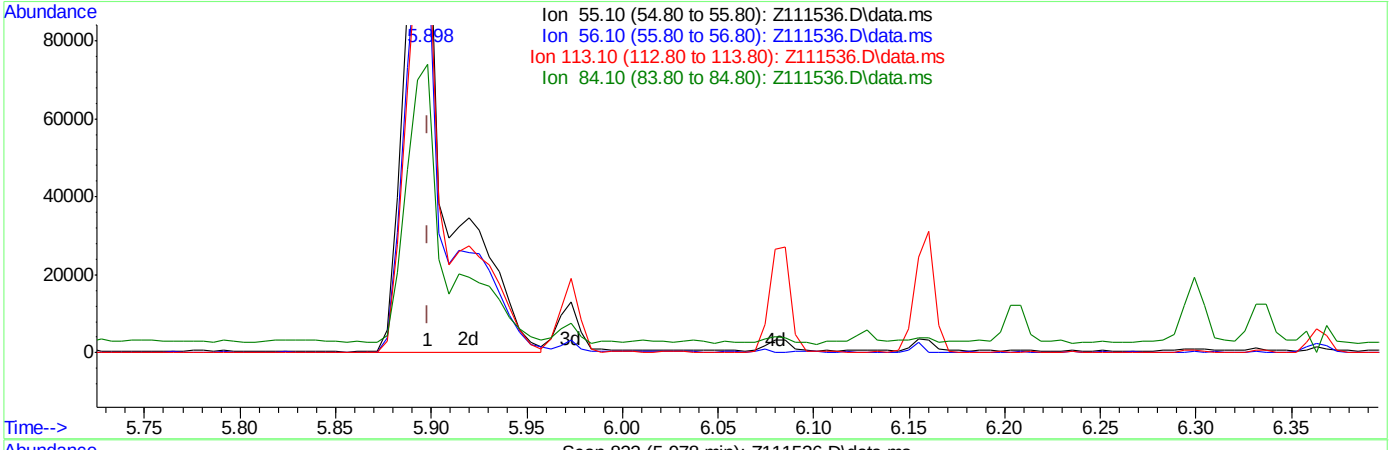
response 153122

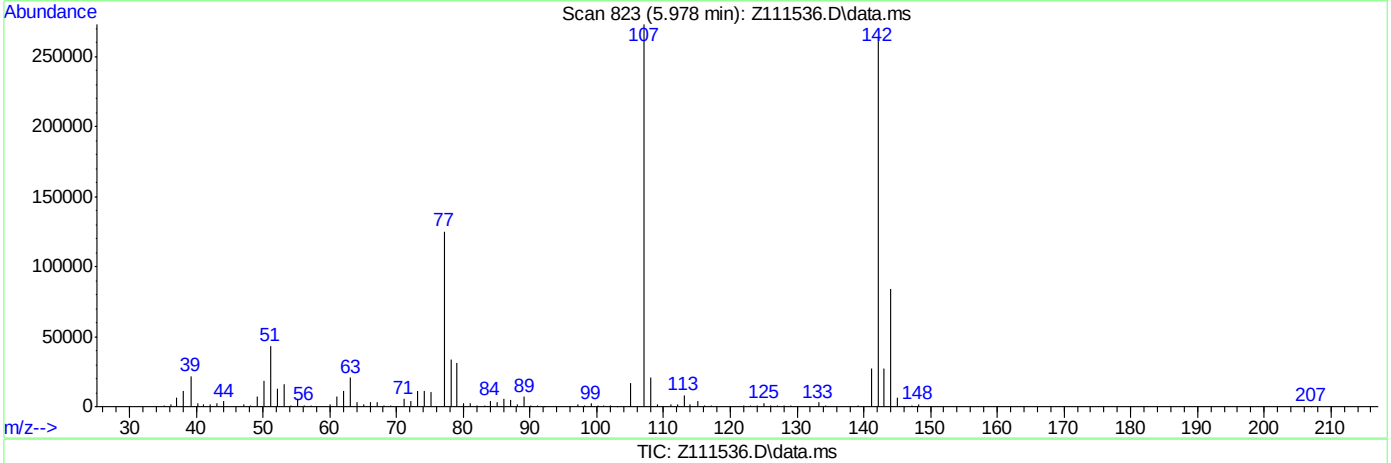
Ion	Exp%	Act%
55.10	100	100
56.10	83.10	79.79
113.10	83.80	86.13
84.10	52.40	52.06

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:52:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration





TIC: Z111536.D\data.ms

(41) Caprolactam (t)

5.898min (0.000) 94.77ppm m

response 207686

Ion	Exp%	Act%
55.10	100	100
56.10	83.10	79.43
113.10	83.80	84.96
84.10	52.40	52.85

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.648	152	156968	40.00	ppm	0.00
24) Naphthalene-d8	5.567	136	596230	40.00	ppm	0.00
47) Acenaphthene-d10	6.961	164	357363	40.00	ppm	0.00
69) Phenanthrene-d10	8.799	188	612469	40.00	ppm	0.00
83) Chrysene-d12	14.018	240	559419	40.00	ppm	0.00
91) Perylene-d12	17.047	264	521840	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	4.648	152	156968	40.00	ppm	0.00
103) Phenanthrene-d10a	8.799	188	612469	40.00	ppm	0.00
107) Chrysene-d12a	14.018	240	559419	40.00	ppm	0.00
109) Acenaphthene-d10a	6.961	164	357363	40.00	ppm	0.00
111) Naphthalene-d8a	5.567	136	596230	40.00	ppm	0.00
113) Chrysene-d12b	14.018	240	559419	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.660	112	426684	79.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	159.20%	
8) Phenol-d5	4.386	99	522254	77.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	154.70%	
25) Nitrobenzene-d5	5.049	82	444316	80.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	160.08%	
51) 2-Fluorobiphenyl	6.363	172	804431	72.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	144.98%	
73) 2,4,6-Tribromophenol	7.832	330	110080	80.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	161.86%	
85) Terphenyl-d14	11.817	244	931710	77.47	ppm	0.01
Spiked Amount 50.000			Recovery	=	154.94%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	183422	78.73	ppm	100
3) Pyridine	2.490	79	500638	79.36	ppm	97
4) N-Nitrosodimethylamine	2.458	74	278628	78.78	ppm	99
6) Indene	4.835	116	648858	73.14	ppm	99
7) Cumene	4.055	105	1021300	76.20	ppm	99
9) Phenol	4.397	94	581402	77.92	ppm	82
10) Aniline	4.402	93	573262	72.45	ppm	75
11) bis(2-Chloroethyl)ether	4.456	93	367914	76.23	ppm	95
12) 2-Chlorophenol	4.493	128	418199	74.17	ppm	97
13) Decane	4.536	43	351418	73.58	ppm	97
14) 1,3-Dichlorobenzene	4.605	146	457926	74.13	ppm	100
15) 1,4-Dichlorobenzene	4.659	146	448261	73.24	ppm	99
16) Benzyl alcohol	4.750	108	270218	78.26	ppm	96
17) 1,2-Dichlorobenzene	4.771	146	408077	73.11	ppm	98
18) Acetophenone	4.942	105	524106	72.31	ppm	98
19) 2-Methylphenol	4.835	108	346130	73.61	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.846	121	115504	77.55	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.947	108	371174	74.96	ppm	99
22) n-Nitroso-di-n-propyla...	4.947	70	278830	71.41	ppm	99
23) Hexachloroethane	5.017	201	155185	73.90	ppm	96
26) Nitrobenzene	5.065	77	434381	76.61	ppm	96
27) Quinoline	5.829	129	845454	75.18	ppm	100
28) Isophorone	5.241	82	801693	75.74	ppm	99
29) 2-Nitrophenol	5.295	139	229362	84.07	ppm	90
30) 2,4-Dimethylphenol	5.327	107	392804	75.08	ppm	97
31) Benzoic Acid	5.428	105	288097	97.47	ppm	98
32) bis(2-Chloroethoxy)met...	5.391	93	448431	75.64	ppm	99
33) 2,4-Dichlorophenol	5.471	162	342325	76.46	ppm	96
34) 2,6-Dichlorophenol	5.631	162	315435	74.48	ppm	97
35) 1,3,5-Trichlorobenzene	5.305	180	371057	73.39	ppm	96
36) 1,2,4-Trichlorobenzene	5.530	180	367761	75.26	ppm	97
37) 1,2,3-Trichlorobenzene	5.690	180	343405	73.41	ppm	99
38) Naphthalene	5.583	128	1131376	73.45	ppm	99
39) 4-Chloroaniline	5.620	127	483737	73.95	ppm	96
40) 2,3-Dichloroaniline	6.294	161	404972	74.21	ppm	100
41) Caprolactam	5.888	55	172885m	76.53	ppm	
42) Hexachlorobutadiene	5.674	225	196916	74.22	ppm	99
43) 4-Chloro-3-methylphenol	5.968	107	374435	77.83	ppm	93
44) 2-Methylnaphthalene	6.080	141	665506	73.78	ppm	99
45) 1-Methylnaphthalene	6.155	141	679022	73.03	ppm	97
46) Dimethylnaphthalene	6.582	156	714694	74.78	ppm	97
48) Hexachlorocyclopentadiene	6.208	237	447821	150.44	ppm	99
49) 2,4,6-Trichlorophenol	6.299	196	236776	76.31	ppm	98
50) 2,4,5-Trichlorophenol	6.331	196	257222	74.77	ppm	96
52) 2-Chloronaphthalene	6.464	162	723323	72.14	ppm	97
53) Biphenyl	6.443	154	955290	72.69	ppm	99
54) 2-Nitroaniline	6.545	65	239712	84.92	ppm	91
55) Dimethylphthalate	6.705	163	873882	74.43	ppm	100
56) Acenaphthylene	6.828	152	1237532	74.13	ppm	99
57) 2,6-Dinitrotoluene	6.758	165	198051	88.68	ppm	96
58) 3-Nitroaniline	6.919	138	236833	87.51	ppm	100
59) Acenaphthene	6.993	153	740660	73.20	ppm	99
60) 2,4-Dinitrophenol	7.020	184	197544	220.47	ppm	100
61) 4-Nitrophenol	7.079	109	132310	87.90	ppm	96
62) Dibenzofuran	7.170	168	1044259	73.50	ppm	99
63) 2,4-Dinitrotoluene	7.154	165	277863	94.60	ppm	95
64) 2,3,4,6-Tetrachlorophenol	7.298	232	226566	79.15	ppm	94
65) Diethylphthalate	7.415	149	891941	74.29	ppm	99
66) Fluorene	7.544	166	825082	72.51	ppm	99
67) 4-Chlorophenyl-phenyle...	7.538	204	382668	71.80	ppm	97
68) 4-Nitroaniline	7.570	138	242882	85.57	ppm	95
70) 4,6-Dinitro-2-methylph...	7.608	198	160151	106.97	ppm	99
71) n-Nitrosodiphenylamine	7.683	169	614776	74.94	ppm	99
72) 1,2-Diphenylhydrazine	7.731	77	907843	75.91	ppm	97
74) 4-Bromophenyl-phenylether	8.158	248	248599	76.47	ppm	97
75) Hexachlorobenzene	8.254	284	257004	74.10	ppm	97
76) Pentachlorophenol	8.532	266	365134	173.13	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration

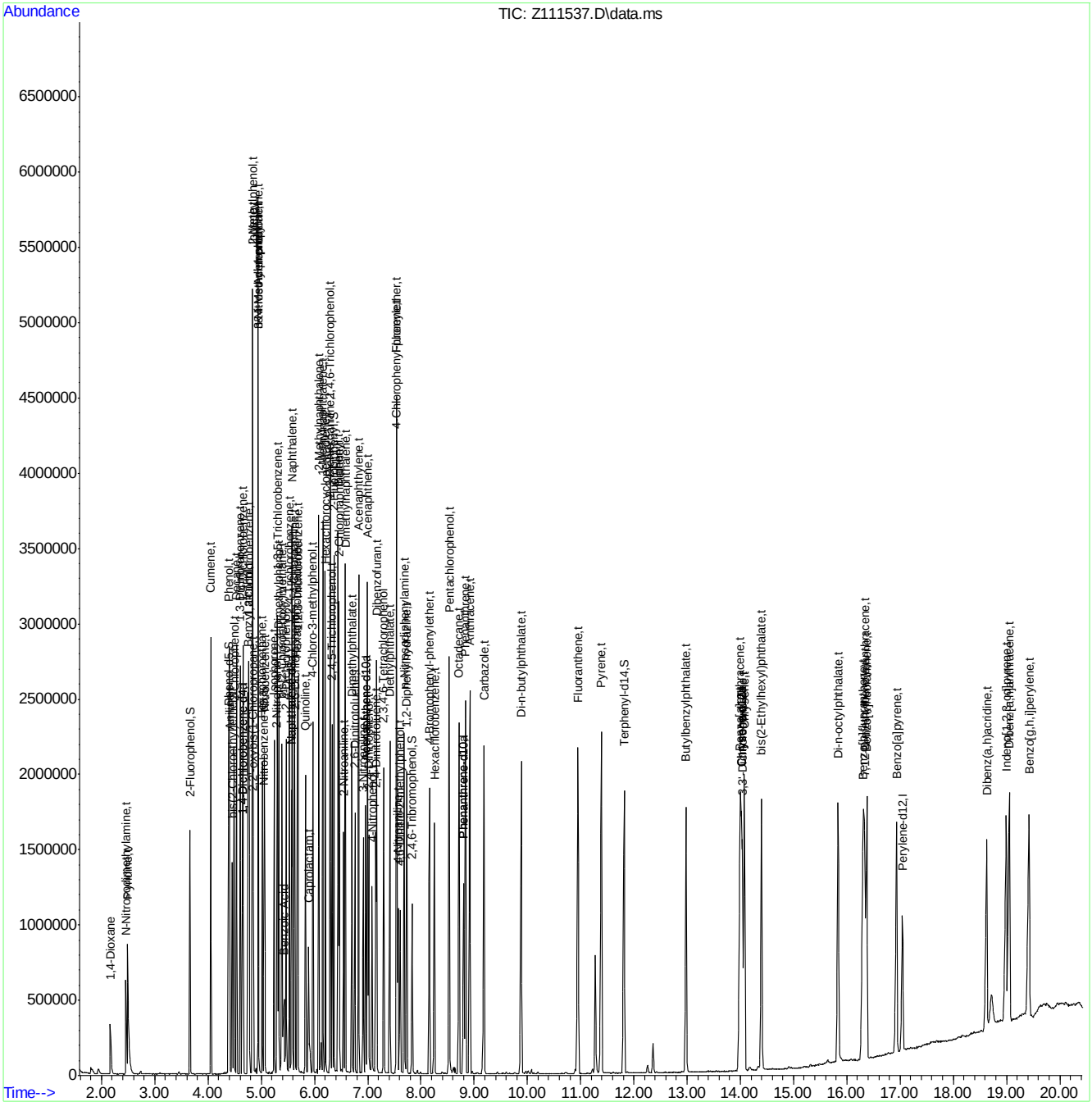
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.836	178	1228127	73.73	ppm	99
78)	Anthracene	8.917	178	1261645	74.44	ppm	99
79)	Carbazole	9.189	167	1245760	75.90	ppm	99
80)	Di-n-butylphthalate	9.883	149	1591329	77.67	ppm	99
81)	Fluoranthene	10.952	202	1437543	77.72	ppm	99
82)	Octadecane	8.714	57	511528	76.03	ppm	98
84)	Pyrene	11.390	202	1467100	77.46	ppm	99
86)	Butylbenzylphthalate	12.982	149	701097	81.37	ppm	99
87)	Benzo[a]anthracene	13.997	228	1310881	76.52	ppm	100
88)	3,3'-Dichlorobenzidine	14.040	252	494457	79.98	ppm	99
89)	Chrysene	14.077	228	1247780	77.58	ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.398	149	929390	79.26	ppm	99
92)	Di-n-octylphthalate	15.835	149	1581352	75.52	ppm	99
93)	Benzo[b]fluoranthene	16.305	252	1273290	75.22	ppm	98
94)	Benzo[k]fluoranthene	16.374	252	1177505	73.51	ppm	99
95)	Benzo[a]pyrene	16.941	252	1118242	74.14	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.997	276	1036914	76.77	ppm	99
97)	Dibenz(a,h)acridine	18.634	279	960168	76.32	ppm	98
98)	Dibenz[a,h]anthracene	19.056	278	1047015	75.13	ppm	99
99)	7,12-Dimethylbenz(a)an...	16.332	256	577696	77.49	ppm	99
100)	Benzo[g,h,i]perylene	19.430	276	1071167	76.46	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Manual Integration Approval Summary

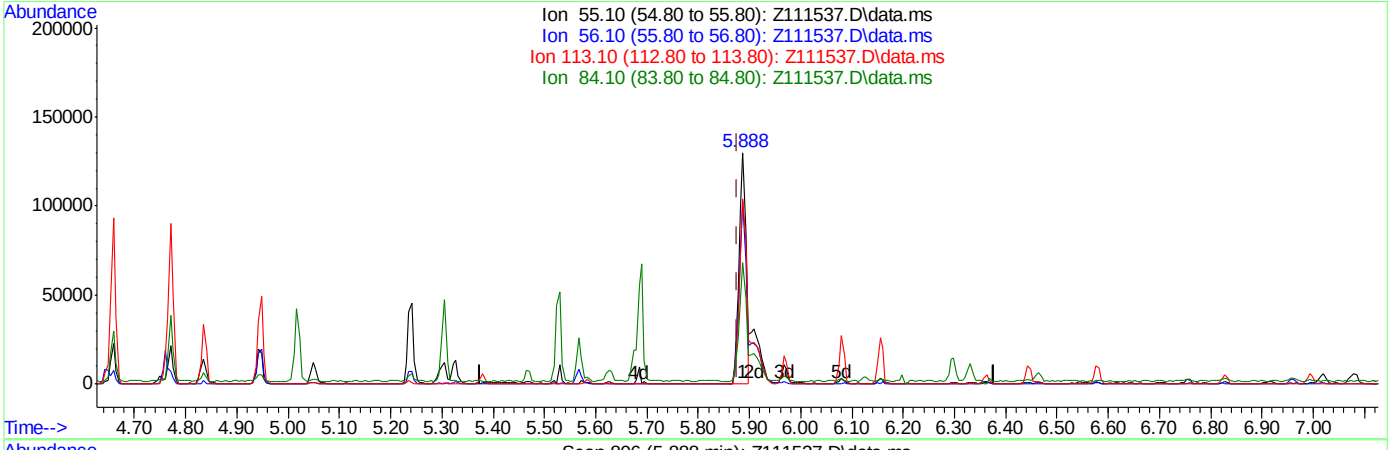
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111537.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 17:31	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

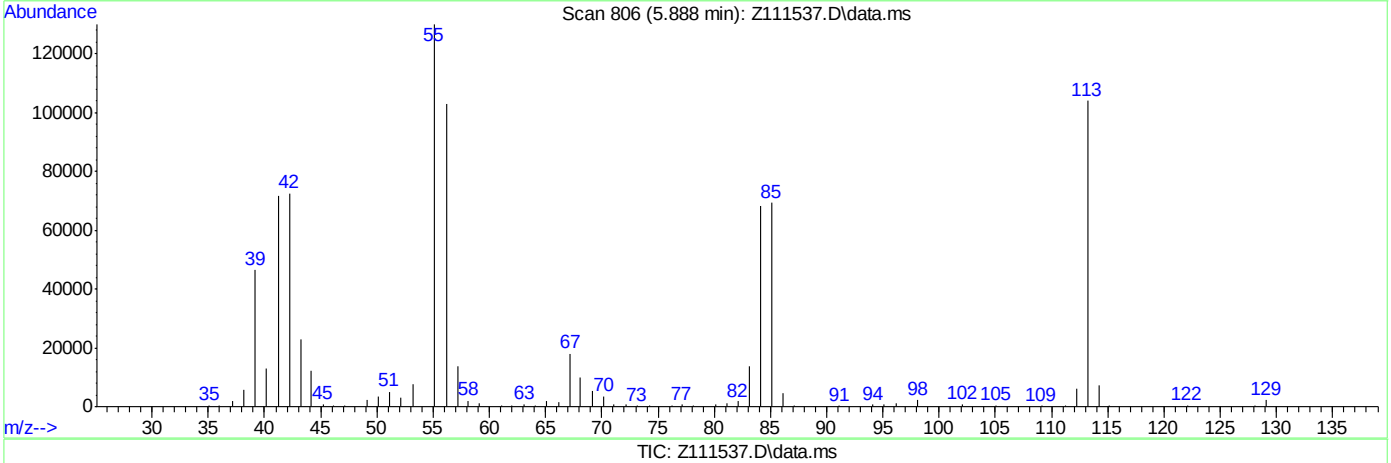
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.89	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:01:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration





TIC: Z111537.D\data.ms

(41) Caprolactam (t)

5.888min (+0.011) 56.92ppm

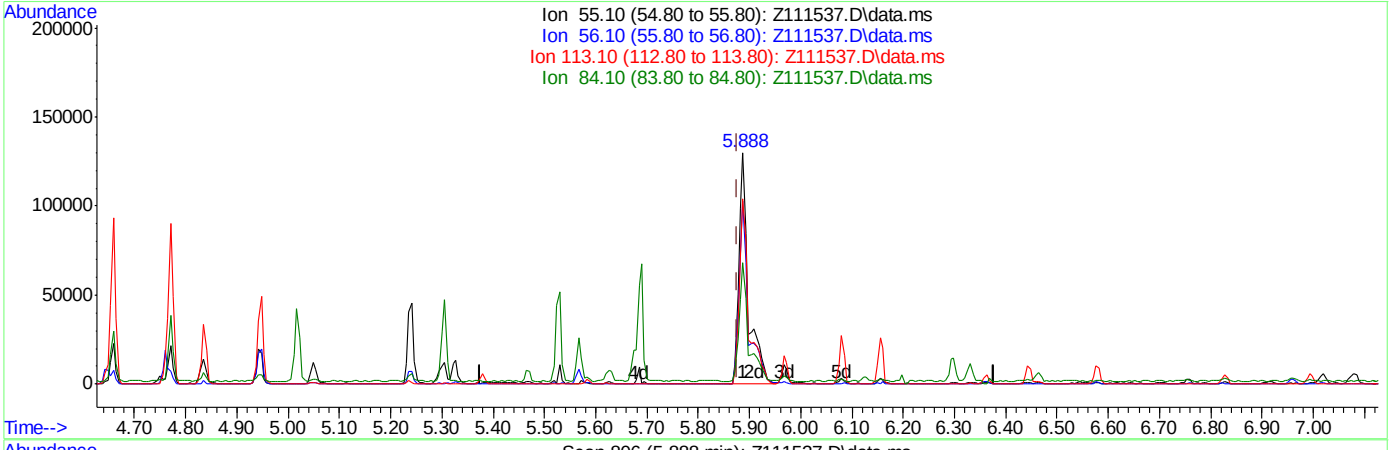
response 128591

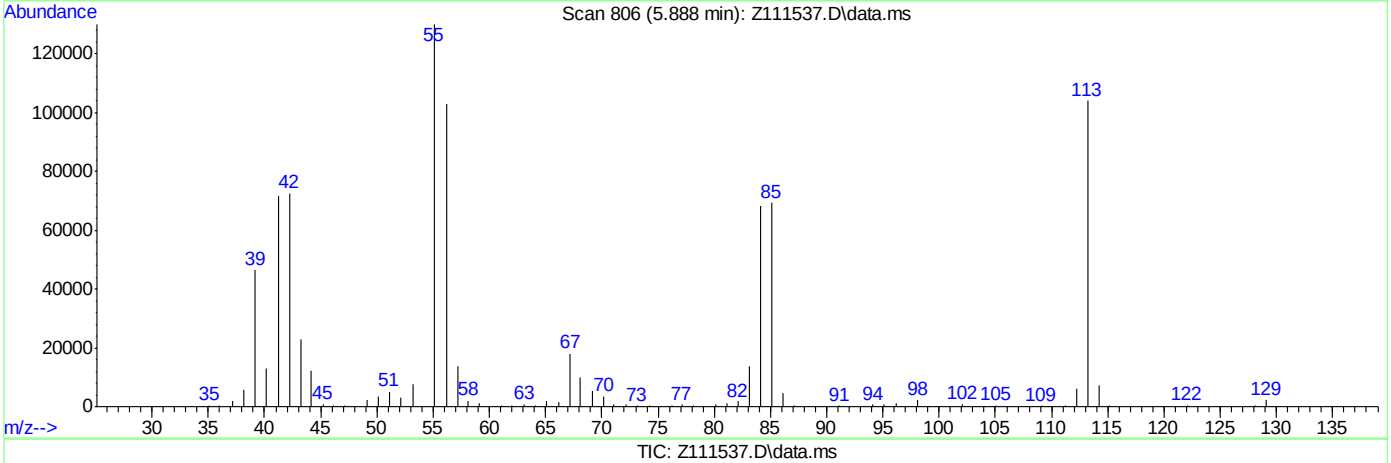
Ion	Exp%	Act%
55.10	100	100
56.10	78.70	79.50
113.10	82.70	79.18
84.10	49.80	51.51

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:01:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration





TIC: Z111537.D\data.ms

(41) Caprolactam (t)

5.888min (+0.011) 76.53ppm m

response 172885

Ion	Exp%	Act%
55.10	100	100
56.10	78.70	79.16
113.10	82.70	79.93
84.10	49.80	52.62

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	164365	40.00	ppm	0.00
24) Naphthalene-d8	5.567	136	618907	40.00	ppm	0.00
47) Acenaphthene-d10	6.961	164	370945	40.00	ppm	0.00
69) Phenanthrene-d10	8.794	188	635703	40.00	ppm	-0.01
83) Chrysene-d12	14.013	240	587746	40.00	ppm	-0.02
91) Perylene-d12	17.037	264	535059	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	164365	40.00	ppm	0.00
103) Phenanthrene-d10a	8.794	188	635703	40.00	ppm	-0.01
107) Chrysene-d12a	14.013	240	587746	40.00	ppm	-0.02
109) Acenaphthene-d10a	6.961	164	370945	40.00	ppm	0.00
111) Naphthalene-d8a	5.567	136	618907	40.00	ppm	0.00
113) Chrysene-d12b	14.013	240	587746	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.654	112	277912	49.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
8) Phenol-d5	4.381	99	348254	48.90	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.80%	
25) Nitrobenzene-d5	5.049	82	291378	50.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.70%	
51) 2-Fluorobiphenyl	6.363	172	548391	46.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	92.98%	
73) 2,4,6-Tribromophenol	7.827	330	73470	53.12	ppm	-0.01
Spiked Amount 50.000			Recovery	=	106.24%	
85) Terphenyl-d14	11.807	244	632839	50.13	ppm	-0.02
Spiked Amount 50.000			Recovery	=	100.26%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	118991	48.19	ppm	96
3) Pyridine	2.490	79	313926	46.37	ppm	98
4) N-Nitrosodimethylamine	2.458	74	183399	49.28	ppm	96
6) Indene	4.835	116	446732	47.19	ppm	97
7) Cumene	4.055	105	690003	48.76	ppm	99
9) Phenol	4.392	94	391180	50.10	ppm	81
10) Aniline	4.402	93	388607	45.50	ppm #	53
11) bis(2-Chloroethyl)ether	4.450	93	246442	48.17	ppm	97
12) 2-Chlorophenol	4.493	128	282458	46.83	ppm	98
13) Decane	4.536	43	238562	46.63	ppm	99
14) 1,3-Dichlorobenzene	4.605	146	311503	47.29	ppm	98
15) 1,4-Dichlorobenzene	4.659	146	302989	46.03	ppm	99
16) Benzyl alcohol	4.744	108	179202	49.34	ppm	97
17) 1,2-Dichlorobenzene	4.771	146	278963	46.67	ppm	98
18) Acetophenone	4.937	105	362628	46.74	ppm	93
19) 2-Methylphenol	4.830	108	239332	47.94	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.846	121	78135	50.15	ppm #	67

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.942	108	253228	48.28	ppm	99
22) n-Nitroso-di-n-propyla...	4.942	70	191508	45.41	ppm	97
23) Hexachloroethane	5.017	201	106094	47.42	ppm	90
26) Nitrobenzene	5.059	77	294040	49.93	ppm	97
27) Quinoline	5.823	129	563483	47.45	ppm	99
28) Isophorone	5.236	82	529255	47.30	ppm	99
29) 2-Nitrophenol	5.294	139	150388	54.81	ppm	94
30) 2,4-Dimethylphenol	5.321	107	257722	46.28	ppm	97
31) Benzoic Acid	5.412	105	200523	77.21	ppm	98
32) bis(2-Chloroethoxy)met...	5.385	93	299787	48.09	ppm	99
33) 2,4-Dichlorophenol	5.465	162	230515	49.40	ppm	99
34) 2,6-Dichlorophenol	5.626	162	214580	48.24	ppm	98
35) 1,3,5-Trichlorobenzene	5.305	180	256126	48.23	ppm	97
36) 1,2,4-Trichlorobenzene	5.524	180	247676	48.26	ppm	97
37) 1,2,3-Trichlorobenzene	5.684	180	232573	46.91	ppm	97
38) Naphthalene	5.583	128	764201	46.76	ppm	100
39) 4-Chloroaniline	5.620	127	327498	47.39	ppm	96
40) 2,3-Dichloroaniline	6.293	161	272363	47.17	ppm	97
41) Caprolactam	5.877	55	112657	47.12	ppm	97
42) Hexachlorobutadiene	5.674	225	133506	47.75	ppm	99
43) 4-Chloro-3-methylphenol	5.968	107	250488	50.24	ppm	91
44) 2-Methylnaphthalene	6.080	141	457256	48.28	ppm	99
45) 1-Methylnaphthalene	6.155	141	465464	47.38	ppm	99
46) Dimethylnaphthalene	6.577	156	480840	47.74	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	312737	101.84	ppm	98
49) 2,4,6-Trichlorophenol	6.299	196	161753	50.33	ppm	98
50) 2,4,5-Trichlorophenol	6.326	196	174783	48.43	ppm	99
52) 2-Chloronaphthalene	6.464	162	495374	46.48	ppm	97
53) Biphenyl	6.443	154	662318	47.86	ppm	99
54) 2-Nitroaniline	6.545	65	158354	56.33	ppm	94
55) Dimethylphthalate	6.699	163	587484	47.36	ppm	99
56) Acenaphthylene	6.828	152	839311	47.69	ppm	100
57) 2,6-Dinitrotoluene	6.753	165	130883	60.36	ppm	93
58) 3-Nitroaniline	6.913	138	153147	57.09	ppm	99
59) Acenaphthene	6.993	153	503183	46.93	ppm	98
60) 2,4-Dinitrophenol	7.015	184	120533	152.10	ppm	88
61) 4-Nitrophenol	7.073	109	84740	56.64	ppm	86
62) Dibenzofuran	7.164	168	708317	47.10	ppm	98
63) 2,4-Dinitrotoluene	7.148	165	181362	65.71	ppm	95
64) 2,3,4,6-Tetrachlorophenol	7.298	232	150804	51.14	ppm	93
65) Diethylphthalate	7.410	149	594609	46.65	ppm	99
66) Fluorene	7.538	166	564510	46.76	ppm	98
67) 4-Chlorophenyl-phenyle...	7.538	204	263688	46.57	ppm	98
68) 4-Nitroaniline	7.565	138	156913	55.05	ppm	89
70) 4,6-Dinitro-2-methylph...	7.602	198	96795	71.01	ppm	97
71) n-Nitrosodiphenylamine	7.677	169	411555	47.54	ppm	98
72) 1,2-Diphenylhydrazine	7.731	77	609151	48.62	ppm	98
74) 4-Bromophenyl-phenylether	8.158	248	166758	49.14	ppm	98
75) Hexachlorobenzene	8.249	284	170595	46.18	ppm	95
76) Pentachlorophenol	8.527	266	240610	115.65	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration

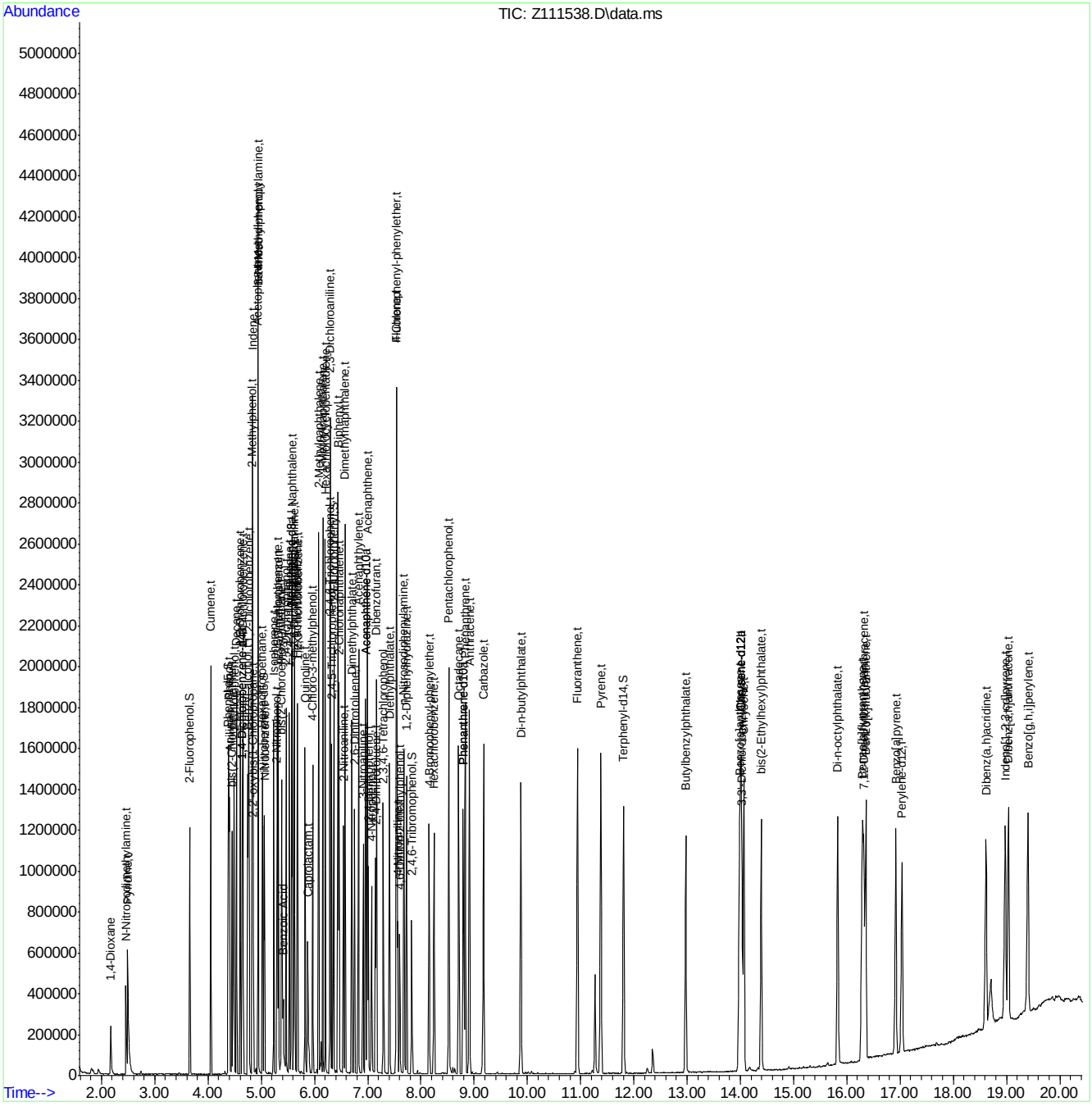
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	8.831	178	830198	47.09	ppm	99
78) Anthracene	8.911	178	849986	47.52	ppm	99
79) Carbazole	9.178	167	828013	47.93	ppm	99
80) Di-n-butylphthalate	9.878	149	1070487	50.51	ppm	100
81) Fluoranthene	10.941	202	961103	50.09	ppm	98
82) Octadecane	8.708	57	342732	48.63	ppm	98
84) Pyrene	11.379	202	994031	49.93	ppm	100
86) Butylbenzylphthalate	12.977	149	458662	51.01	ppm	95
87) Benzo[a]anthracene	13.986	228	870555	47.59	ppm	100
88) 3,3'-Dichlorobenzidine	14.029	252	323661	49.75	ppm	97
89) Chrysene	14.066	228	825701	48.32	ppm	99
90) bis(2-Ethylhexyl)phtha...	14.392	149	615857	49.99	ppm	97
92) Di-n-octylphthalate	15.829	149	1051929	48.51	ppm	99
93) Benzo[b]fluoranthene	16.294	252	824535	46.35	ppm	95
94) Benzo[k]fluoranthene	16.358	252	787063	46.95	ppm	98
95) Benzo[a]pyrene	16.925	252	737092	46.57	ppm	100
96) Indeno[1,2,3-cd]pyrene	18.976	276	664176	47.00	ppm	96
97) Dibenz(a,h)acridine	18.618	279	620677	47.22	ppm	97
98) Dibenz[a,h]anthracene	19.040	278	677123	46.19	ppm	96
99) 7,12-Dimethylbenz(a)an...	16.321	256	373465	48.31	ppm	98
100) Benzo[g,h,i]perylene	19.409	276	679867	46.10	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 07:55:05 2016 RTE Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	174442	40.00	ppm	0.00
24) Naphthalene-d8	5.567	136	645095	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	380891	40.00	ppm	0.00
69) Phenanthrene-d10	8.794	188	649421	40.00	ppm	0.00
83) Chrysene-d12	14.003	240	611142	40.00	ppm	-0.02
91) Perylene-d12	17.032	264	532546	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	174442	40.00	ppm	0.00
103) Phenanthrene-d10a	8.794	188	649421	40.00	ppm	0.00
107) Chrysene-d12a	14.003	240	611142	40.00	ppm	-0.02
109) Acenaphthene-d10a	6.956	164	380891	40.00	ppm	0.00
111) Naphthalene-d8a	5.567	136	645095	40.00	ppm	0.00
113) Chrysene-d12b	14.003	240	611142	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.655	112	147830	24.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.70%	
8) Phenol-d5	4.376	99	186398	25.05	ppm	-0.01
Spiked Amount 50.000			Recovery	=	50.10%	
25) Nitrobenzene-d5	5.044	82	153992	25.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.28%	
51) 2-Fluorobiphenyl	6.358	172	299496	25.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.86%	
73) 2,4,6-Tribromophenol	7.827	330	37361	25.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.66%	
85) Terphenyl-d14	11.801	244	328751	25.22	ppm	-0.02
Spiked Amount 50.000			Recovery	=	50.44%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	61551	23.87	ppm	98
3) Pyridine	2.490	79	162714	23.26	ppm	98
4) N-Nitrosodimethylamine	2.458	74	95450	24.38	ppm	97
6) Indene	4.835	116	249355	25.85	ppm	97
7) Cumene	4.050	105	377325	25.64	ppm	98
9) Phenol	4.386	94	214225	26.00	ppm	95
10) Aniline	4.397	93	214469	24.98	ppm	99
11) bis(2-Chloroethyl)ether	4.445	93	132540	25.00	ppm	94
12) 2-Chlorophenol	4.488	128	155405	25.26	ppm	97
13) Decane	4.531	43	132301	25.44	ppm	93
14) 1,3-Dichlorobenzene	4.605	146	170988	25.37	ppm	98
15) 1,4-Dichlorobenzene	4.659	146	168960	25.38	ppm	99
16) Benzyl alcohol	4.744	108	94356	24.72	ppm	93
17) 1,2-Dichlorobenzene	4.771	146	156751	25.83	ppm	98
18) Acetophenone	4.937	105	201023	25.57	ppm	99
19) 2-Methylphenol	4.830	108	132797	25.93	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.846	121	42765	26.04	ppm	95

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.937	108	137543	25.40	ppm	99
22) n-Nitroso-di-n-propyla...	4.937	70	108930	25.80	ppm	95
23) Hexachloroethane	5.017	201	57664	25.19	ppm	94
26) Nitrobenzene	5.060	77	158085	26.04	ppm	95
27) Quinoline	5.818	129	295634	24.67	ppm	99
28) Isophorone	5.231	82	285438	25.26	ppm	98
29) 2-Nitrophenol	5.289	139	77477	25.92	ppm	82
30) 2,4-Dimethylphenol	5.321	107	135832	24.37	ppm	97
31) Benzoic Acid	5.396	105	95332	28.27	ppm	97
32) bis(2-Chloroethoxy)met...	5.385	93	158836	25.10	ppm	99
33) 2,4-Dichlorophenol	5.460	162	125379	26.17	ppm	98
34) 2,6-Dichlorophenol	5.626	162	115809	25.72	ppm	97
35) 1,3,5-Trichlorobenzene	5.300	180	141294	26.38	ppm	97
36) 1,2,4-Trichlorobenzene	5.524	180	135253	25.97	ppm	96
37) 1,2,3-Trichlorobenzene	5.685	180	129341	26.09	ppm	98
38) Naphthalene	5.578	128	414041	25.36	ppm	99
39) 4-Chloroaniline	5.615	127	180941	26.06	ppm	97
40) 2,3-Dichloroaniline	6.294	161	146890	25.34	ppm	98
41) Caprolactam	5.861	55	58654	24.26	ppm	98
42) Hexachlorobutadiene	5.674	225	74880	26.56	ppm	99
43) 4-Chloro-3-methylphenol	5.962	107	132699	25.67	ppm	99
44) 2-Methylnaphthalene	6.080	141	248245	25.94	ppm	96
45) 1-Methylnaphthalene	6.155	141	252287	25.64	ppm	99
46) Dimethylnaphthalene	6.571	156	263187	25.87	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	173307	55.45	ppm	99
49) 2,4,6-Trichlorophenol	6.294	196	89074	27.25	ppm	98
50) 2,4,5-Trichlorophenol	6.320	196	90686	25.14	ppm	98
52) 2-Chloronaphthalene	6.459	162	267183	25.63	ppm	97
53) Biphenyl	6.438	154	349556	25.54	ppm	99
54) 2-Nitroaniline	6.539	65	80304	26.29	ppm	95
55) Dimethylphthalate	6.694	163	315302	25.64	ppm	100
56) Acenaphthylene	6.823	152	452189	25.89	ppm	100
57) 2,6-Dinitrotoluene	6.748	165	64763	26.49	ppm	95
58) 3-Nitroaniline	6.908	138	75035	25.42	ppm	98
59) Acenaphthene	6.988	153	268870	25.47	ppm	99
60) 2,4-Dinitrophenol	7.010	184	48684	46.58	ppm	84
61) 4-Nitrophenol	7.068	109	42160	25.65	ppm	94
62) Dibenzofuran	7.164	168	383885	25.88	ppm	98
63) 2,4-Dinitrotoluene	7.143	165	91076	27.82	ppm	95
64) 2,3,4,6-Tetrachlorophenol	7.293	232	76452	25.13	ppm	96
65) Diethylphthalate	7.405	149	315892	25.13	ppm	99
66) Fluorene	7.538	166	307017	25.92	ppm	99
67) 4-Chlorophenyl-phenyle...	7.533	204	145565	26.30	ppm	99
68) 4-Nitroaniline	7.554	138	78972	25.66	ppm	99
70) 4,6-Dinitro-2-methylph...	7.592	198	44455	25.83	ppm	94
71) n-Nitrosodiphenylamine	7.672	169	221530	25.88	ppm	98
72) 1,2-Diphenylhydrazine	7.725	77	321298	25.66	ppm	100
74) 4-Bromophenyl-phenylether	8.153	248	89167	26.16	ppm	98
75) Hexachlorobenzene	8.244	284	92077	25.51	ppm	96
76) Pentachlorophenol	8.521	266	123532	54.13	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration

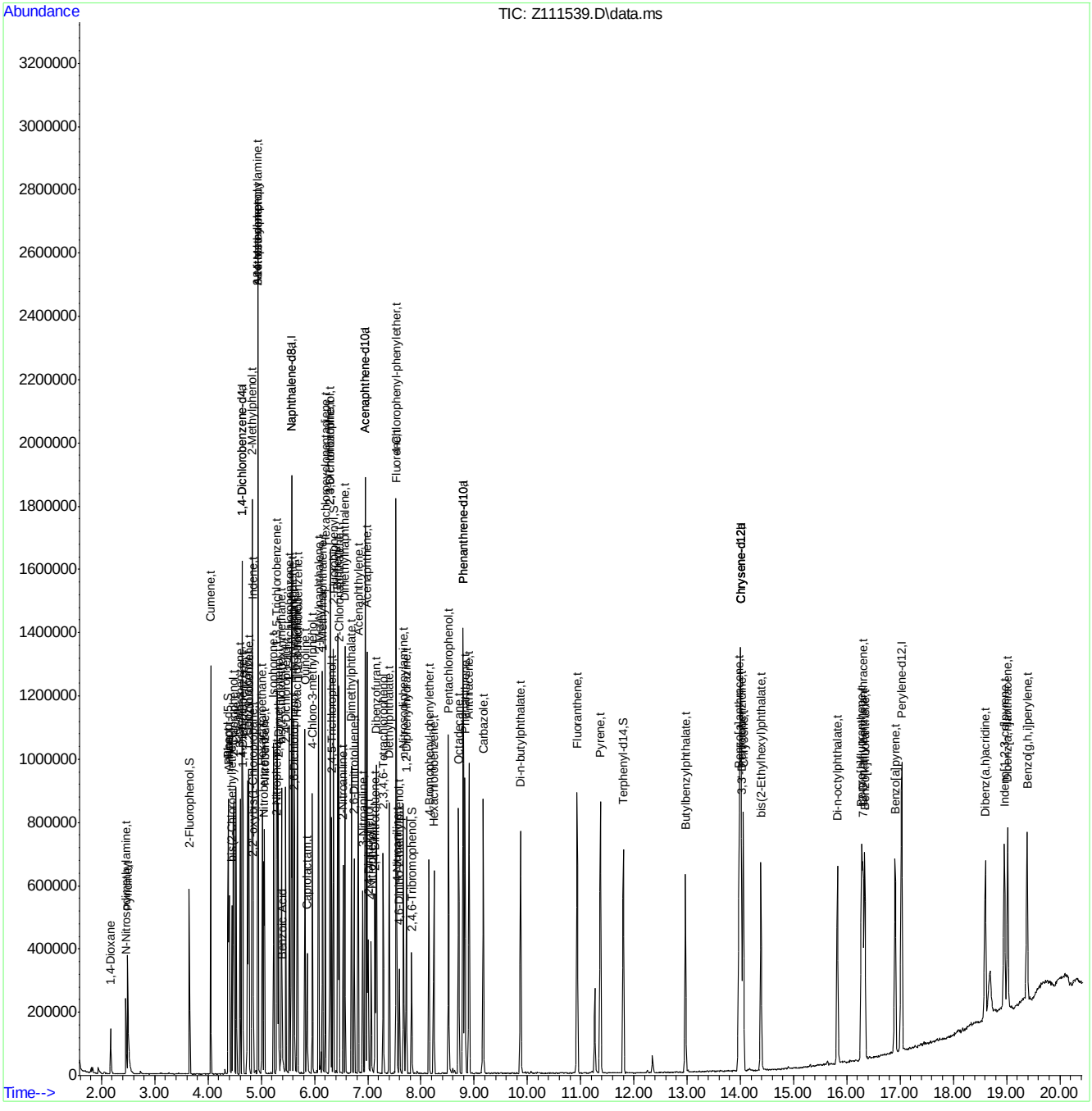
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	8.826	178	442520	25.56 ppm	99
78) Anthracene	8.906	178	456271	25.84 ppm	99
79) Carbazole	9.173	167	440506	25.64 ppm	100
80) Di-n-butylphthalate	9.873	149	560254	25.98 ppm	100
81) Fluoranthene	10.936	202	506993	26.04 ppm	98
82) Octadecane	8.708	57	181754	25.80 ppm	98
84) Pyrene	11.374	202	522877	25.47 ppm	98
86) Butylbenzylphthalate	12.971	149	243508	25.76 ppm	98
87) Benzo[a]anthracene	13.981	228	458985	24.79 ppm	99
88) 3,3'-Dichlorobenzidine	14.019	252	169272	25.07 ppm	98
89) Chrysene	14.056	228	435087	24.95 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.387	149	324284	25.37 ppm	99
92) Di-n-octylphthalate	15.824	149	543128	25.78 ppm	99
93) Benzo[b]fluoranthene	16.278	252	434966	25.56 ppm	99
94) Benzo[k]fluoranthene	16.342	252	404499	25.26 ppm	98
95) Benzo[a]pyrene	16.909	252	385669	25.52 ppm	100
96) Indeno[1,2,3-cd]pyrene	18.965	276	341501	25.03 ppm	96
97) Dibenz(a,h)acridine	18.602	279	317215	24.99 ppm	98
98) Dibenz[a,h]anthracene	19.024	278	345826	24.69 ppm	99
99) 7,12-Dimethylbenz(a)an...	16.305	256	194756	25.80 ppm	99
100) Benzo[g,h,i]perylene	19.393	276	349959	24.75 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:05:11 2016 RTE

SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	174718	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	644114	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	381092	40.00	ppm	0.00
69) Phenanthrene-d10	8.788	188	648960	40.00	ppm	0.00
83) Chrysene-d12	13.997	240	627120	40.00	ppm	0.00
91) Perylene-d12	17.026	264	545794	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	174718	40.00	ppm	0.00
103) Phenanthrene-d10a	8.788	188	648960	40.00	ppm	0.00
107) Chrysene-d12a	13.997	240	627120	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	381092	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	644114	40.00	ppm	0.00
113) Chrysene-d12b	13.997	240	627120	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.654	112	59124	9.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.86%	
8) Phenol-d5	4.370	99	75441	10.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.24%	
25) Nitrobenzene-d5	5.043	82	61672	10.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.46%	
51) 2-Fluorobiphenyl	6.358	172	126971	10.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.82%	
73) 2,4,6-Tribromophenol	7.821	330	15089	10.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.74%	
85) Terphenyl-d14	11.796	244	137603	10.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.54%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	24475	9.56	ppm	95
3) Pyridine	2.500	79	71441	10.34	ppm	97
4) N-Nitrosodimethylamine	2.463	74	38505	9.87	ppm	98
6) Indene	4.830	116	105693	10.86	ppm	94
7) Cumene	4.050	105	153079	10.33	ppm	97
9) Phenol	4.381	94	80405m	9.67	ppm	
10) Aniline	4.397	93	95379	11.09	ppm	99
11) bis(2-Chloroethyl)ether	4.445	93	55521	10.46	ppm	97
12) 2-Chlorophenol	4.488	128	66451	10.76	ppm	98
13) Decane	4.531	43	53878	10.31	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	70377	10.40	ppm	97
15) 1,4-Dichlorobenzene	4.653	146	70051	10.47	ppm	98
16) Benzyl alcohol	4.744	108	38429	10.08	ppm	90
17) 1,2-Dichlorobenzene	4.771	146	66370	10.85	ppm	97
18) Acetophenone	4.937	105	86096	10.88	ppm	97
19) 2-Methylphenol	4.824	108	55441	10.73	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.846	121	18213	10.98	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.937	108	58969	10.84	ppm	99
22) n-Nitroso-di-n-propyla...	4.937	70	46319	10.88	ppm	99
23) Hexachloroethane	5.017	201	23514	10.24	ppm	91
26) Nitrobenzene	5.059	77	64996	10.64	ppm	93
27) Quinoline	5.818	129	123367	10.34	ppm	98
28) Isophorone	5.230	82	116788	10.33	ppm	99
29) 2-Nitrophenol	5.289	139	29542	9.83	ppm	86
30) 2,4-Dimethylphenol	5.316	107	55921	10.10	ppm	100
31) Benzoic Acid	5.375	105	33140	9.59	ppm	96
32) bis(2-Chloroethoxy)met...	5.385	93	67586	10.69	ppm	99
33) 2,4-Dichlorophenol	5.460	162	50828	10.53	ppm	97
34) 2,6-Dichlorophenol	5.620	162	47789	10.57	ppm	96
35) 1,3,5-Trichlorobenzene	5.300	180	60374	11.16	ppm	96
36) 1,2,4-Trichlorobenzene	5.524	180	57527	10.98	ppm	99
37) 1,2,3-Trichlorobenzene	5.684	180	56409	11.30	ppm	97
38) Naphthalene	5.578	128	175542	10.74	ppm	99
39) 4-Chloroaniline	5.615	127	77221	11.04	ppm	99
40) 2,3-Dichloroaniline	6.288	161	63078	10.87	ppm	98
41) Caprolactam	5.850	55	24771	10.32	ppm	97
42) Hexachlorobutadiene	5.674	225	31036	10.89	ppm	96
43) 4-Chloro-3-methylphenol	5.957	107	53836	10.37	ppm	95
44) 2-Methylnaphthalene	6.074	141	101901	10.59	ppm	99
45) 1-Methylnaphthalene	6.149	141	108036	10.94	ppm	98
46) Dimethylnaphthalene	6.571	156	111147	10.87	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	70334	22.01	ppm	100
49) 2,4,6-Trichlorophenol	6.293	196	36964	11.10	ppm	96
50) 2,4,5-Trichlorophenol	6.320	196	38802	10.74	ppm	99
52) 2-Chloronaphthalene	6.459	162	115786	11.05	ppm	98
53) Biphenyl	6.438	154	149210	10.85	ppm	99
54) 2-Nitroaniline	6.534	65	30868	10.00	ppm	88
55) Dimethylphthalate	6.694	163	130765	10.57	ppm	99
56) Acenaphthylene	6.822	152	191657	10.89	ppm	100
57) 2,6-Dinitrotoluene	6.748	165	24201	9.78	ppm	94
58) 3-Nitroaniline	6.902	138	28382	9.58	ppm	92
59) Acenaphthene	6.988	153	114098	10.76	ppm	96
60) 2,4-Dinitrophenol	7.004	184	13223	12.82	ppm	86
61) 4-Nitrophenol	7.063	109	15842	9.58	ppm	96
62) Dibenzofuran	7.159	168	164096	10.98	ppm	99
63) 2,4-Dinitrotoluene	7.138	165	32757	9.78	ppm	91
64) 2,3,4,6-Tetrachlorophenol	7.292	232	31704	10.40	ppm	95
65) Diethylphthalate	7.405	149	132581	10.53	ppm	100
66) Fluorene	7.533	166	133515	11.18	ppm	98
67) 4-Chlorophenyl-phenyle...	7.533	204	61397	10.97	ppm	98
68) 4-Nitroaniline	7.544	138	31078	10.04	ppm	90
70) 4,6-Dinitro-2-methylph...	7.586	198	13566	7.83	ppm	98
71) n-Nitrosodiphenylamine	7.672	169	92205	10.70	ppm	100
72) 1,2-Diphenylhydrazine	7.720	77	138162	10.99	ppm	98
74) 4-Bromophenyl-phenylether	8.153	248	36801	10.70	ppm	91
75) Hexachlorobenzene	8.238	284	38286	10.57	ppm	98
76) Pentachlorophenol	8.516	266	48467	20.91	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

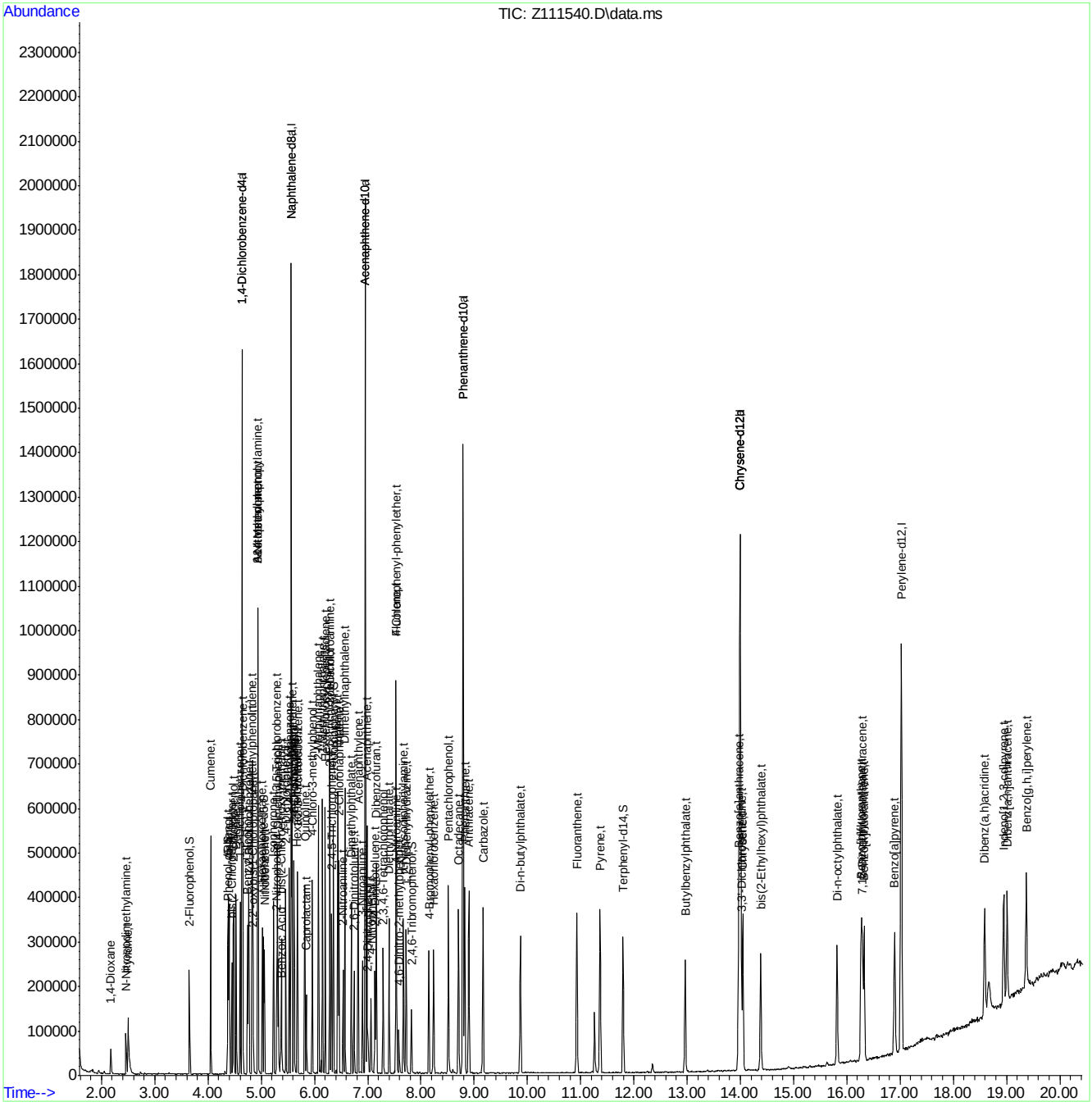
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77)	Phenanthrene	8.826	178	185618	10.68 ppm	99
78)	Anthracene	8.900	178	192380	10.83 ppm	99
79)	Carbazole	9.168	167	183824	10.65 ppm	100
80)	Di-n-butylphthalate	9.867	149	226108	10.41 ppm	99
81)	Fluoranthene	10.931	202	211584	10.78 ppm	97
82)	Octadecane	8.703	57	75299	10.63 ppm	100
84)	Pyrene	11.369	202	220538	10.43 ppm	99
86)	Butylbenzylphthalate	12.966	149	99608	10.21 ppm	99
87)	Benzo[a]anthracene	13.970	228	196219	10.35 ppm	96
88)	3,3'-Dichlorobenzidine	14.018	252	71953	10.38 ppm	95
89)	Chrysene	14.045	228	188016	10.51 ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.382	149	135116	10.27 ppm	99
92)	Di-n-octylphthalate	15.819	149	229965	10.58 ppm	98
93)	Benzo[b]fluoranthene	16.267	252	187137	10.68 ppm	99
94)	Benzo[k]fluoranthene	16.326	252	176094	10.71 ppm	98
95)	Benzo[a]pyrene	16.898	252	165582	10.65 ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.949	276	143755	10.28 ppm	98
97)	Dibenz(a,h)acridine	18.591	279	139845	10.75 ppm	95
98)	Dibenz[a,h]anthracene	19.013	278	146810	10.25 ppm	97
99)	7,12-Dimethylbenz(a)an...	16.294	256	82612	10.61 ppm	98
100)	Benzo[g,h,i]perylene	19.377	276	148972	10.30 ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration



Manual Integration Approval Summary

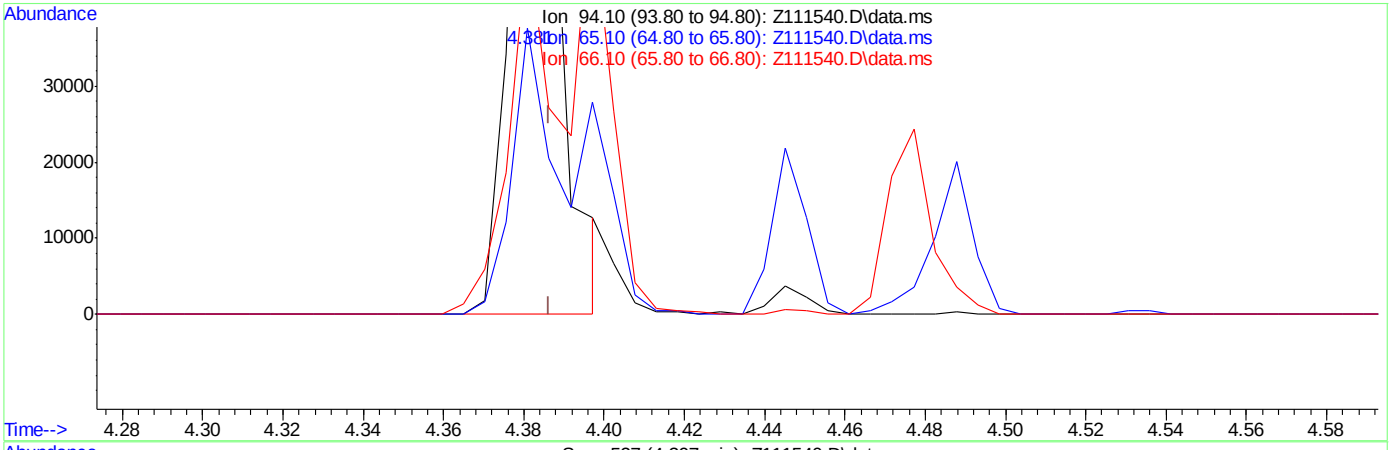
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111540.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 19:00	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

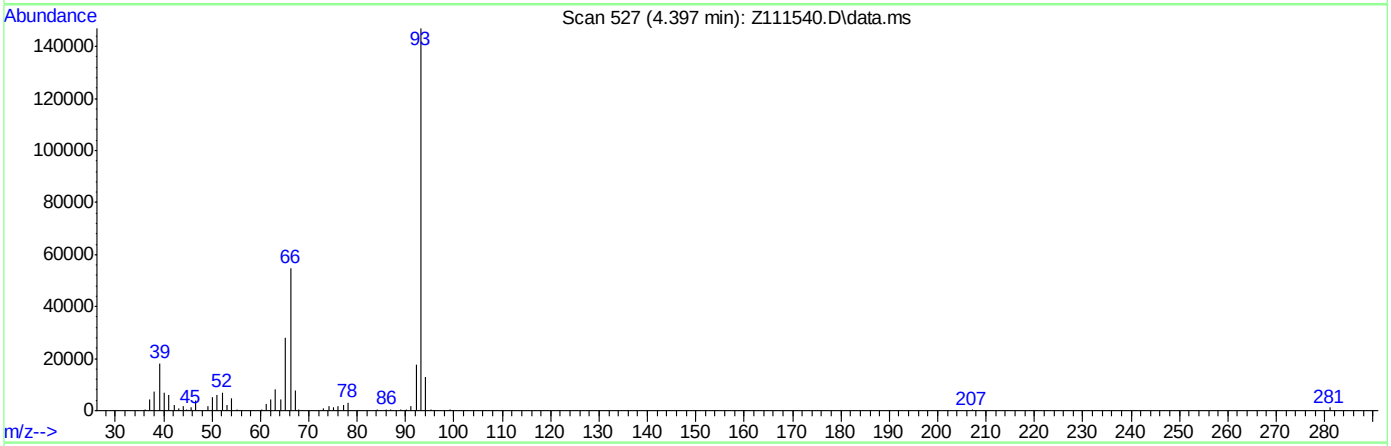
Parameter	CAS	Sig#	R.T. (min.)	Reason
Phenol	108-95-2		4.38	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:05:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111540.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 10.16ppm

response 84487

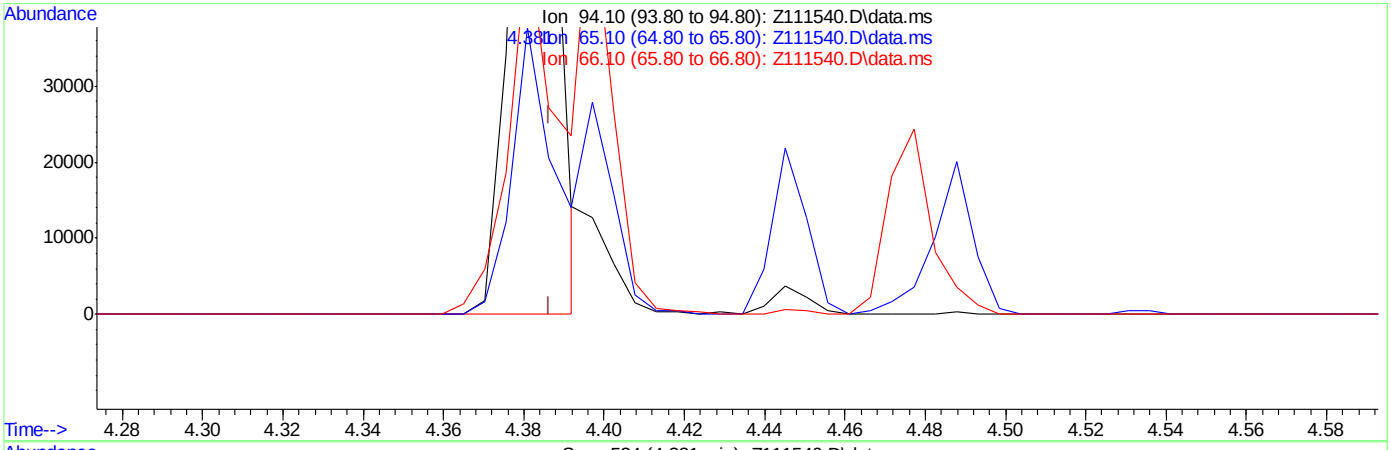
Ion	Exp%	Act%
94.10	100	100
65.10	29.60	20.04
66.10	39.90	17.35
0.00	0.00	0.00

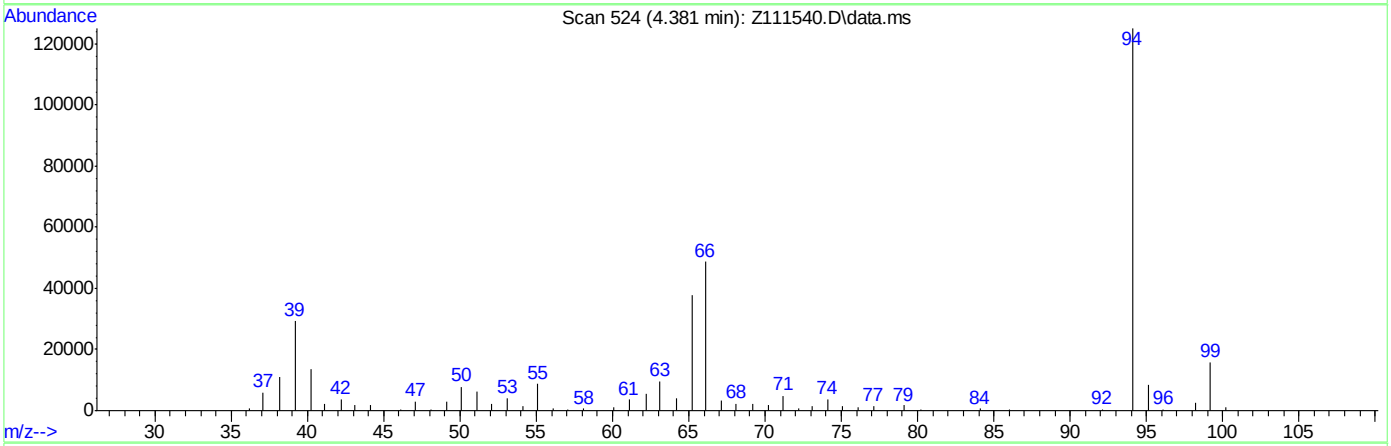
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:05:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111540.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 9.67ppm m

response 80405

Ion	Exp%	Act%
94.10	100	100
65.10	29.60	30.17
66.10	39.90	38.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	183518	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	688038	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	400229	40.00	ppm	0.00
69) Phenanthrene-d10	8.788	188	682148	40.00	ppm	0.00
83) Chrysene-d12	13.992	240	667057	40.00	ppm	-0.01
91) Perylene-d12	17.026	264	575126	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	183518	40.00	ppm	0.00
103) Phenanthrene-d10a	8.788	188	682148	40.00	ppm	0.00
107) Chrysene-d12a	13.992	240	667057	40.00	ppm	-0.01
109) Acenaphthene-d10a	6.956	164	400229	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	688038	40.00	ppm	0.00
113) Chrysene-d12b	13.992	240	667057	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.649	112	31709	5.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.14%	
8) Phenol-d5	4.370	99	40627	5.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.38%	
25) Nitrobenzene-d5	5.044	82	33245	5.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.32%	
51) 2-Fluorobiphenyl	6.358	172	68834	5.63	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.26%	
73) 2,4,6-Tribromophenol	7.822	330	7841	5.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.26%	
85) Terphenyl-d14	11.796	244	73103	5.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.26%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	13758	5.12	ppm	98
3) Pyridine	2.501	79	38595	5.32	ppm	97
4) N-Nitrosodimethylamine	2.463	74	20584	5.02	ppm	99
6) Indene	4.830	116	59932	5.87	ppm	98
7) Cumene	4.050	105	82656	5.31	ppm	97
9) Phenol	4.381	94	43221m	4.95	ppm	
10) Aniline	4.397	93	52714	5.84	ppm	97
11) bis(2-Chloroethyl)ether	4.445	93	29334	5.26	ppm	94
12) 2-Chlorophenol	4.488	128	36524	5.63	ppm	98
13) Decane	4.531	43	29767	5.42	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	39371	5.54	ppm	99
15) 1,4-Dichlorobenzene	4.654	146	38698	5.51	ppm	98
16) Benzyl alcohol	4.739	108	20074	5.01	ppm	91
17) 1,2-Dichlorobenzene	4.766	146	36813	5.73	ppm	96
18) Acetophenone	4.931	105	46873	5.64	ppm	94
19) 2-Methylphenol	4.825	108	30752	5.67	ppm	95
20) 2,2'-oxybis(1-Chloropr...	4.841	121	9742	5.59	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.931	108	31155	5.45	ppm	93
22) n-Nitroso-di-n-propyla...	4.937	70	26672	5.97	ppm	97
23) Hexachloroethane	5.017	201	13247	5.49	ppm	86
26) Nitrobenzene	5.054	77	36136	5.54	ppm	99
27) Quinoline	5.813	129	66971	5.25	ppm	99
28) Isophorone	5.225	82	64283	5.32	ppm	94
29) 2-Nitrophenol	5.289	139	14309	4.46	ppm	91
30) 2,4-Dimethylphenol	5.316	107	31884	5.39	ppm	99
31) Benzoic Acid	5.359	105	15691	4.25	ppm	95
32) bis(2-Chloroethoxy)met...	5.380	93	37604	5.57	ppm	98
33) 2,4-Dichlorophenol	5.460	162	28155	5.46	ppm	95
34) 2,6-Dichlorophenol	5.620	162	26830	5.55	ppm	99
35) 1,3,5-Trichlorobenzene	5.300	180	33339	5.77	ppm	98
36) 1,2,4-Trichlorobenzene	5.524	180	31910	5.70	ppm	97
37) 1,2,3-Trichlorobenzene	5.685	180	29859	5.60	ppm	96
38) Naphthalene	5.578	128	96377	5.52	ppm	99
39) 4-Chloroaniline	5.615	127	42301	5.66	ppm	98
40) 2,3-Dichloroaniline	6.288	161	34929	5.63	ppm	99
41) Caprolactam	5.840	55	13021	5.08	ppm	95
42) Hexachlorobutadiene	5.674	225	17183	5.64	ppm	97
43) 4-Chloro-3-methylphenol	5.957	107	29283	5.28	ppm	99
44) 2-Methylnaphthalene	6.075	141	56205	5.47	ppm	98
45) 1-Methylnaphthalene	6.149	141	59013	5.59	ppm	98
46) Dimethylnaphthalene	6.571	156	59018	5.40	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	37332	11.13	ppm	98
49) 2,4,6-Trichlorophenol	6.288	196	20178	5.77	ppm	96
50) 2,4,5-Trichlorophenol	6.320	196	20925	5.51	ppm	99
52) 2-Chloronaphthalene	6.454	162	63335	5.75	ppm	96
53) Biphenyl	6.438	154	81206	5.62	ppm	97
54) 2-Nitroaniline	6.534	65	15855	4.89	ppm	86
55) Dimethylphthalate	6.689	163	71842	5.53	ppm	99
56) Acenaphthylene	6.817	152	104036	5.63	ppm	99
57) 2,6-Dinitrotoluene	6.742	165	11994	4.61	ppm	90
58) 3-Nitroaniline	6.903	138	13886	4.46	ppm	95
59) Acenaphthene	6.988	153	61361	5.51	ppm	94
60) 2,4-Dinitrophenol	7.004	184	4831	4.46	ppm	77
61) 4-Nitrophenol	7.058	109	7403	4.26	ppm	88
62) Dibenzofuran	7.159	168	88581	5.64	ppm	97
63) 2,4-Dinitrotoluene	7.138	165	14740	4.19	ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.287	232	16647	5.20	ppm	97
65) Diethylphthalate	7.399	149	71836	5.43	ppm	98
66) Fluorene	7.533	166	72528	5.79	ppm	99
67) 4-Chlorophenyl-phenyle...	7.533	204	34585	5.89	ppm	97
68) 4-Nitroaniline	7.544	138	15804	4.86	ppm	97
70) 4,6-Dinitro-2-methylph...	7.586	198	5165	2.84	ppm	89
71) n-Nitrosodiphenylamine	7.667	169	49842	5.50	ppm	98
72) 1,2-Diphenylhydrazine	7.720	77	74287	5.62	ppm	100
74) 4-Bromophenyl-phenylether	8.147	248	19563	5.41	ppm	94
75) Hexachlorobenzene	8.238	284	20276	5.33	ppm	99
76) Pentachlorophenol	8.516	266	24387	10.01	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

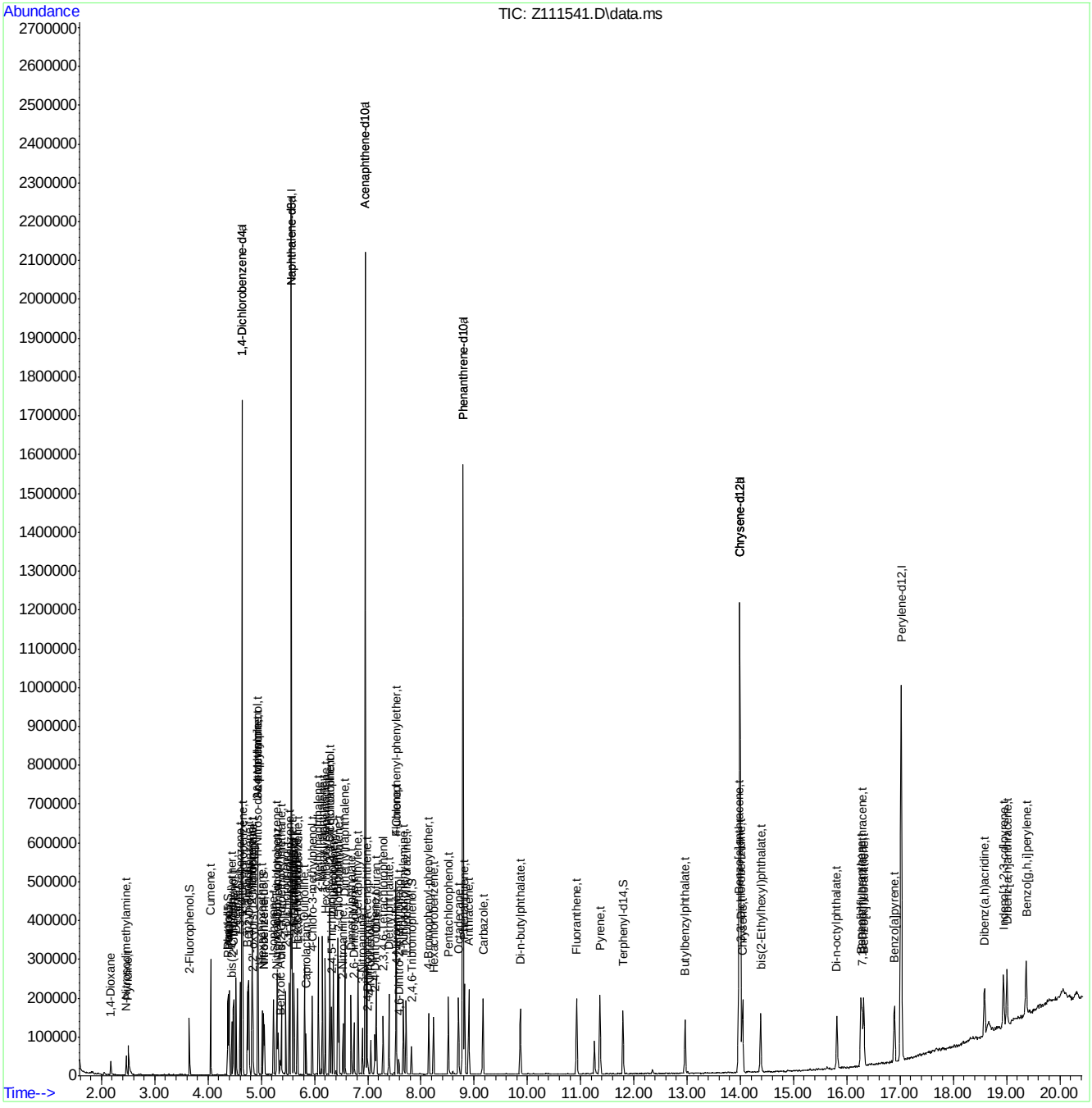
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.820	178	101701	5.57	ppm	97
78)	Anthracene	8.901	178	104564	5.60	ppm	100
79)	Carbazole	9.168	167	100102	5.52	ppm	100
80)	Di-n-butylphthalate	9.868	149	121731	5.33	ppm	98
81)	Fluoranthene	10.925	202	114583	5.56	ppm	98
82)	Octadecane	8.703	57	40132	5.39	ppm	98
84)	Pyrene	11.363	202	121129	5.39	ppm	97
86)	Butylbenzylphthalate	12.961	149	53108	5.12	ppm	92
87)	Benzo[a]anthracene	13.970	228	104748	5.19	ppm	97
88)	3,3'-Dichlorobenzidine	14.013	252	39105	5.30	ppm	97
89)	Chrysene	14.045	228	101797	5.35	ppm	98
90)	bis(2-Ethylhexyl)phtha...	14.382	149	73860	5.28	ppm	100
92)	Di-n-octylphthalate	15.813	149	125662	5.49	ppm	97
93)	Benzo[b]fluoranthene	16.268	252	101639	5.51	ppm	98
94)	Benzo[k]fluoranthene	16.321	252	97228	5.61	ppm	99
95)	Benzo[a]pyrene	16.893	252	90037	5.49	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.944	276	79980	5.43	ppm	97
97)	Dibenz(a,h)acridine	18.591	279	75392	5.50	ppm	97
98)	Dibenz[a,h]anthracene	19.008	278	81078	5.37	ppm	97
99)	7,12-Dimethylbenz(a)an...	16.289	256	43408	5.29	ppm	93
100)	Benzo[g,h,i]perylene	19.371	276	82871	5.44	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:10:50 2016 RTE Page: 4

Manual Integration Approval Summary

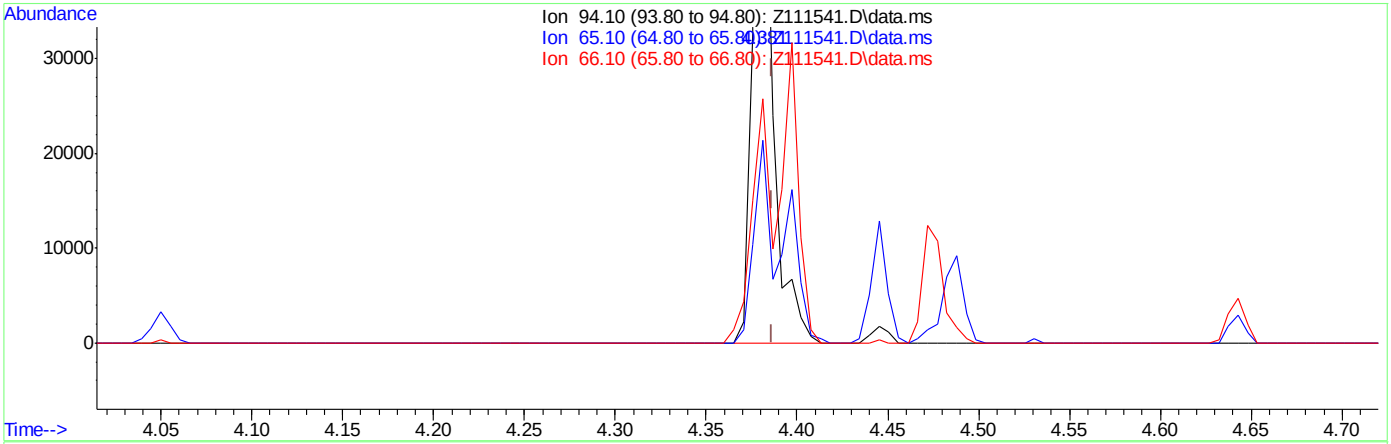
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111541.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 19:30	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

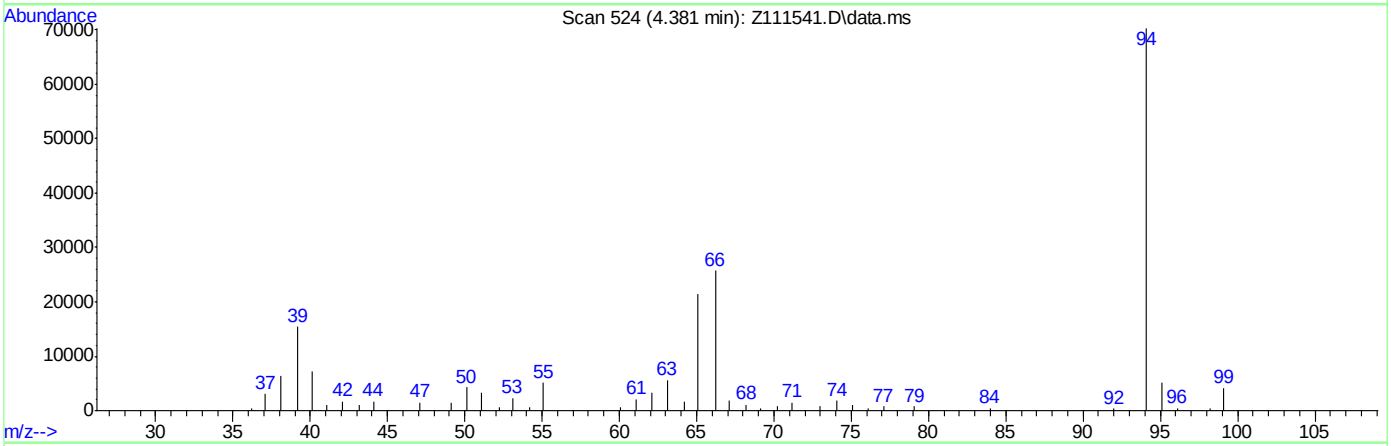
Parameter	CAS	Sig#	R.T. (min.)	Reason
Phenol	108-95-2		4.38	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:09:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111541.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 5.32ppm

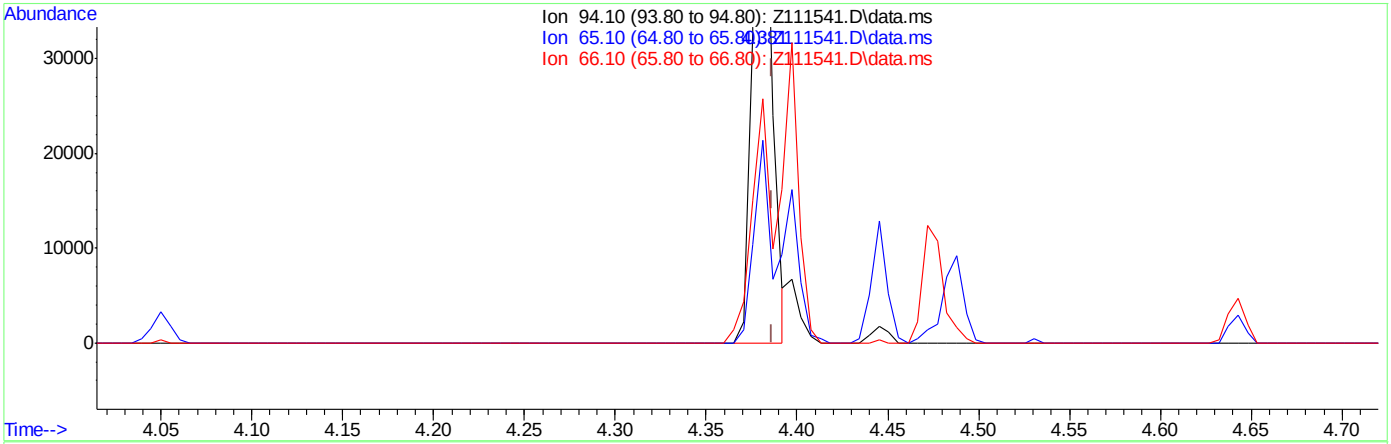
response 46437

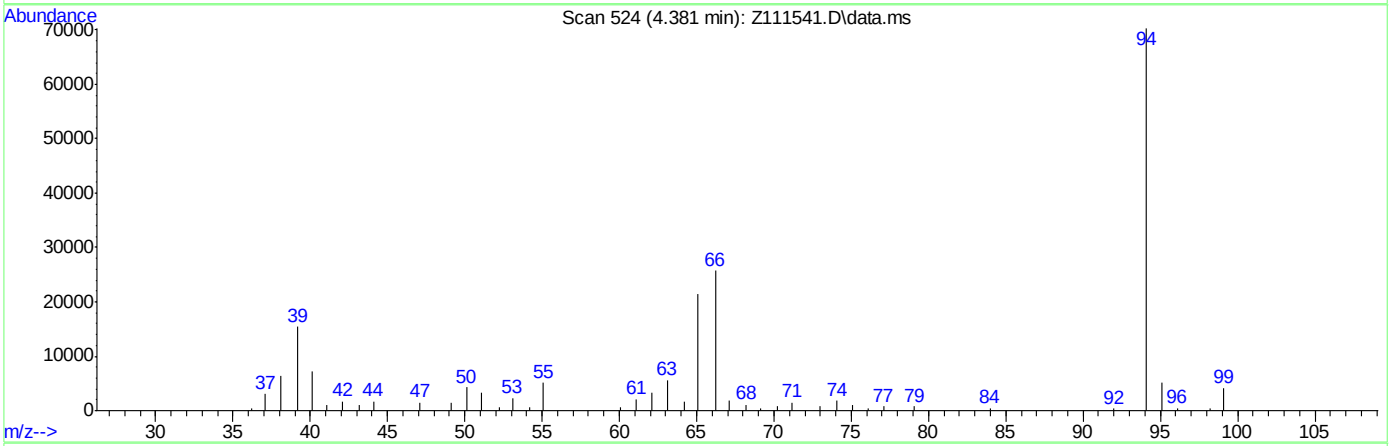
Ion	Exp%	Act%
94.10	100	100
65.10	29.60	30.12
66.10	39.90	35.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:09:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111541.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 4.95ppm m

response 43221

Ion	Exp%	Act%
94.10	100	100
65.10	29.60	30.45
66.10	39.90	36.62
0.00	0.00	0.00

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	173638	40.00	ppm	0.01
24) Naphthalene-d8	5.562	136	660705	40.00	ppm	0.01
47) Acenaphthene-d10	6.956	164	379584	40.00	ppm	0.02
69) Phenanthrene-d10	8.788	188	660014	40.00	ppm	0.02
83) Chrysene-d12	13.997	240	653013	40.00	ppm	0.04
91) Perylene-d12	17.031	264	563847	40.00	ppm	0.05
101) 1,4-Dichlorobenzene-d4a	4.643	152	173638	40.00	ppm	0.01
103) Phenanthrene-d10a	8.788	188	660014	40.00	ppm	0.02
107) Chrysene-d12a	13.997	240	653013	40.00	ppm	0.04
109) Acenaphthene-d10a	6.956	164	379584	40.00	ppm	0.02
111) Naphthalene-d8a	5.562	136	660705	40.00	ppm	0.01
113) Chrysene-d12b	13.997	240	653013	40.00	ppm	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.649	112	12086	2.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.02%	
8) Phenol-d5	4.370	99	15548	2.05	ppm	0.01
Spiked Amount 50.000			Recovery	=	4.10%	
25) Nitrobenzene-d5	5.043	82	12064	1.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.86%	
51) 2-Fluorobiphenyl	6.358	172	27562	2.25	ppm	0.01
Spiked Amount 50.000			Recovery	=	4.50%	
73) 2,4,6-Tribromophenol	7.821	330	2811	1.92	ppm	0.02
Spiked Amount 50.000			Recovery	=	3.84%	
85) Terphenyl-d14	11.796	244	29419	2.08	ppm	0.03
Spiked Amount 50.000			Recovery	=	4.16%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.175	88	5414	2.14	ppm	91
3) Pyridine	2.511	79	15276	2.21	ppm	95
4) N-Nitrosodimethylamine	2.463	74	7924	2.04	ppm	88
6) Indene	4.830	116	22392	2.18	ppm	91
7) Cumene	4.050	105	31871	2.11	ppm	99
9) Phenol	4.381	94	17460	2.12	ppm	79
10) Aniline	4.397	93	20764	2.29	ppm	96
11) bis(2-Chloroethyl)ether	4.445	93	11538	2.14	ppm	94
12) 2-Chlorophenol	4.488	128	14107	2.21	ppm	96
13) Decane	4.531	43	12122	2.24	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	15321	2.19	ppm	96
15) 1,4-Dichlorobenzene	4.653	146	15581	2.23	ppm	98
16) Benzyl alcohol	4.739	108	8077	2.09	ppm	93
17) 1,2-Dichlorobenzene	4.766	146	14299	2.23	ppm	96
18) Acetophenone	4.931	105	18659	2.25	ppm	97
19) 2-Methylphenol	4.824	108	11816	2.20	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.846	121	3490	1.99	ppm #	84

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.931	108	12325	2.19	ppm	97
22) n-Nitroso-di-n-propyla...	4.937	70	10168	2.27	ppm	96
23) Hexachloroethane	5.017	201	5165	2.21	ppm	94
26) Nitrobenzene	5.054	77	13099	2.03	ppm	93
27) Quinoline	5.813	129	26732	2.14	ppm	99
28) Isophorone	5.230	82	25769	2.17	ppm	98
29) 2-Nitrophenol	5.289	139	5347	1.81	ppm	78
30) 2,4-Dimethylphenol	5.316	107	12810	2.19	ppm	97
31) Benzoic Acid	5.348	105	2927	0.77	ppm	95
32) bis(2-Chloroethoxy)met...	5.380	93	14123	2.10	ppm	99
33) 2,4-Dichlorophenol	5.460	162	10564	2.06	ppm	94
34) 2,6-Dichlorophenol	5.620	162	10345	2.16	ppm	98
35) 1,3,5-Trichlorobenzene	5.300	180	12544	2.13	ppm	97
36) 1,2,4-Trichlorobenzene	5.524	180	11894	2.13	ppm	96
37) 1,2,3-Trichlorobenzene	5.684	180	11713	2.17	ppm	96
38) Naphthalene	5.578	128	38394	2.18	ppm	98
39) 4-Chloroaniline	5.615	127	16311	2.16	ppm	96
40) 2,3-Dichloroaniline	6.288	161	13610	2.17	ppm	99
41) Caprolactam	5.839	55	5372	2.14	ppm	93
42) Hexachlorobutadiene	5.674	225	6608	2.13	ppm	98
43) 4-Chloro-3-methylphenol	5.957	107	10988	2.03	ppm	98
44) 2-Methylnaphthalene	6.074	141	22169	2.16	ppm	96
45) 1-Methylnaphthalene	6.149	141	23185	2.18	ppm	96
46) Dimethylnaphthalene	6.571	156	23543	2.16	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	13630	4.16	ppm	99
49) 2,4,6-Trichlorophenol	6.288	196	7265	2.08	ppm	95
50) 2,4,5-Trichlorophenol	6.315	196	8009	2.17	ppm	91
52) 2-Chloronaphthalene	6.459	162	25006	2.25	ppm	99
53) Biphenyl	6.438	154	31811	2.21	ppm	97
54) 2-Nitroaniline	6.534	65	5200	1.74	ppm	83
55) Dimethylphthalate	6.689	163	27925	2.18	ppm	98
56) Acenaphthylene	6.822	152	40164	2.18	ppm	99
57) 2,6-Dinitrotoluene	6.742	165	3717	1.58	ppm	85
58) 3-Nitroaniline	6.903	138	4688	1.70	ppm	89
59) Acenaphthene	6.988	153	24894	2.25	ppm	97
60) 2,4-Dinitrophenol	7.004	184	1146	7.57	ppm	81
61) 4-Nitrophenol	7.057	109	2682	1.76	ppm	86
62) Dibenzofuran	7.159	168	35014	2.24	ppm	100
63) 2,4-Dinitrotoluene	7.132	165	4075	1.80	ppm	70
64) 2,3,4,6-Tetrachlorophenol	7.287	232	6243	2.05	ppm	86
65) Diethylphthalate	7.399	149	29203	2.25	ppm	98
66) Fluorene	7.533	166	28356	2.24	ppm	97
67) 4-Chlorophenyl-phenyle...	7.533	204	13395	2.26	ppm	97
68) 4-Nitroaniline	7.538	138	5367	1.82	ppm	92
70) 4,6-Dinitro-2-methylph...	7.586	198	1310	3.06	ppm	90
71) n-Nitrosodiphenylamine	7.672	169	19645	2.16	ppm	99
72) 1,2-Diphenylhydrazine	7.720	77	28270	2.11	ppm	99
74) 4-Bromophenyl-phenylether	8.153	248	7523	2.08	ppm	97
75) Hexachlorobenzene	8.238	284	8610	2.29	ppm	97
76) Pentachlorophenol	8.516	266	7723	3.37	ppm	98

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration

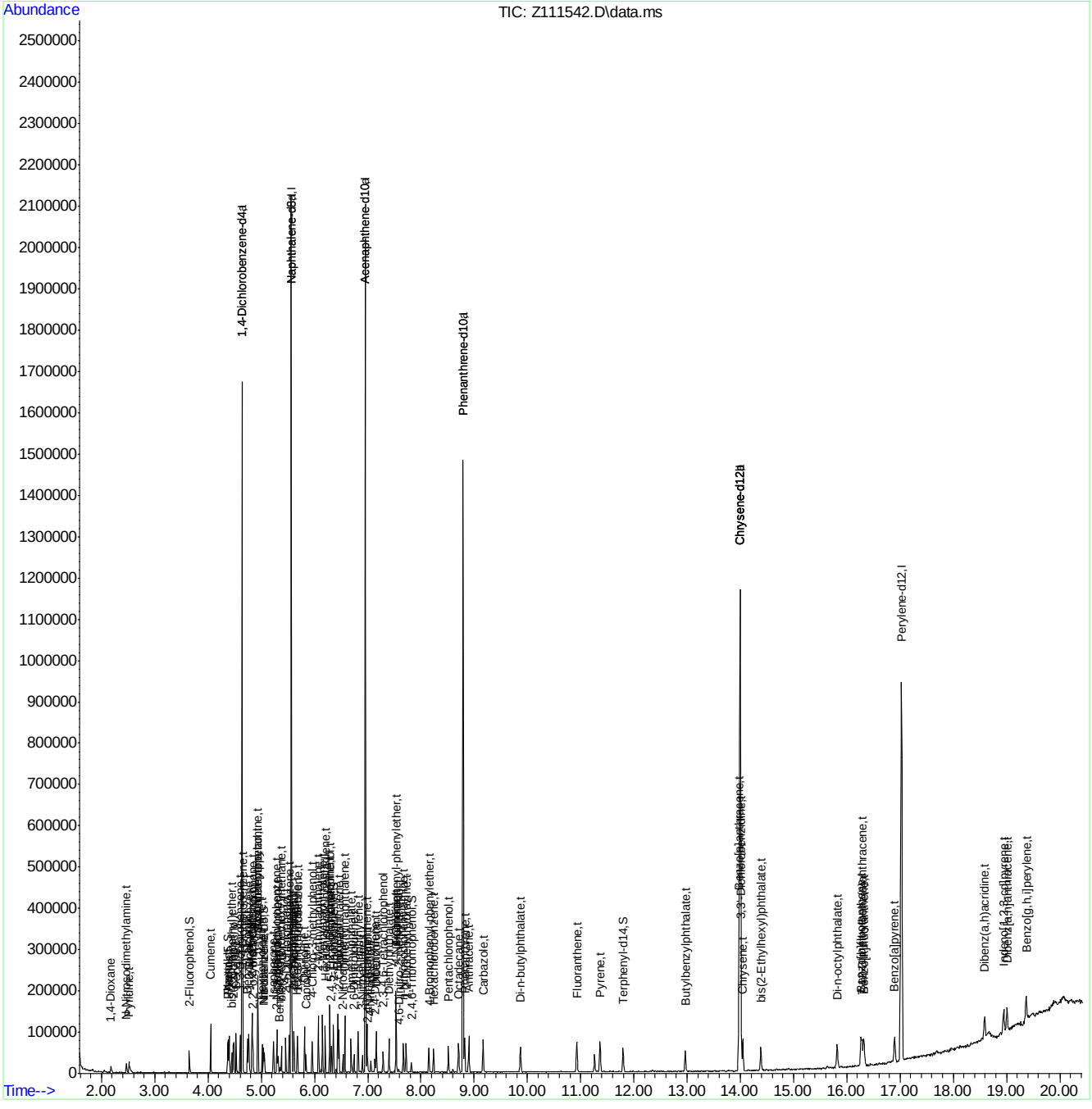
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.826	178	40586	2.20	ppm	98
78)	Anthracene	8.901	178	41004	2.17	ppm	98
79)	Carbazole	9.168	167	39332	2.15	ppm	98
80)	Di-n-butylphthalate	9.873	149	46065	2.05	ppm	99
81)	Fluoranthene	10.931	202	42627	2.06	ppm	99
82)	Octadecane	8.708	57	16001	2.16	ppm	91
84)	Pyrene	11.369	202	46486	2.06	ppm	97
86)	Butylbenzylphthalate	12.966	149	19952	1.94	ppm	99
87)	Benzo[a]anthracene	13.976	228	43709	2.14	ppm	96
88)	3,3'-Dichlorobenzidine	14.013	252	15046	2.05	ppm	94
89)	Chrysene	14.045	228	40545	2.10	ppm	97
90)	bis(2-Ethylhexyl)phtha...	14.387	149	27935	2.01	ppm	90
92)	Di-n-octylphthalate	15.819	149	48627	2.10	ppm	96
93)	Benzo[b]fluoranthene	16.267	252	41055	2.17	ppm	96
94)	Benzo[k]fluoranthene	16.321	252	40292	2.25	ppm	99
95)	Benzo[a]pyrene	16.898	252	36912	2.19	ppm	97
96)	Indeno[1,2,3-cd]pyrene	18.944	276	32169	2.14	ppm	94
97)	Dibenz(a,h)acridine	18.591	279	29938	2.13	ppm	96
98)	Dibenz[a,h]anthracene	19.008	278	32741	2.14	ppm	96
99)	7,12-Dimethylbenz(a)an...	16.289	256	17142	2.09	ppm	98
100)	Benzo[g,h,i]perylene	19.371	276	33858	2.18	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration



MZ5571.M Fri Jun 17 08:56:58 2016 RTE Page: 4

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	180874	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	682876	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	394408	40.00	ppm	0.00
69) Phenanthrene-d10	8.789	188	675196	40.00	ppm	0.00
83) Chrysene-d12	13.997	240	673081	40.00	ppm	0.00
91) Perylene-d12	17.026	264	575390	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	180874	40.00	ppm	0.00
103) Phenanthrene-d10a	8.789	188	675196	40.00	ppm	0.00
107) Chrysene-d12a	13.997	240	673081	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	394408	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	682876	40.00	ppm	0.00
113) Chrysene-d12b	13.997	240	673081	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.649	112	6833	1.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.22%	
8) Phenol-d5	4.370	99	8861	1.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.28%	
25) Nitrobenzene-d5	5.044	82	6571	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
51) 2-Fluorobiphenyl	6.358	172	15030	1.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.44%	
73) 2,4,6-Tribromophenol	7.822	330	1307	0.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.72%	
85) Terphenyl-d14	11.796	244	15160	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.175	88	2616	0.98	ppm	84
3) Pyridine	2.522	79	6941	0.96	ppm	86
4) N-Nitrosodimethylamine	2.469	74	4099	1.01	ppm	90
6) Indene	4.830	116	12472	1.20	ppm	99
7) Cumene	4.050	105	17165	1.11	ppm	98
9) Phenol	4.381	94	8817	1.03	ppm	77
10) Aniline	4.397	93	10946	1.20	ppm	72
11) bis(2-Chloroethyl)ether	4.445	93	5945	1.07	ppm	94
12) 2-Chlorophenol	4.488	128	7123	1.09	ppm	95
13) Decane	4.531	43	6558	1.20	ppm	91
14) 1,3-Dichlorobenzene	4.600	146	8253	1.16	ppm	96
15) 1,4-Dichlorobenzene	4.654	146	8629	1.23	ppm	98
16) Benzyl alcohol	4.739	108	4467	1.13	ppm	88
17) 1,2-Dichlorobenzene	4.766	146	7719	1.19	ppm	93
18) Acetophenone	4.931	105	9940	1.19	ppm	97
19) 2-Methylphenol	4.825	108	6254	1.14	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.841	121	2240	1.28	ppm #	63

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.931	108	6487	1.13	ppm		95
22) n-Nitroso-di-n-propyla...	4.937	70	5222	1.15	ppm		93
23) Hexachloroethane	5.017	201	2567	1.06	ppm	#	75
26) Nitrobenzene	5.054	77	6963	1.06	ppm		95
27) Quinoline	5.813	129	13747	1.08	ppm		95
28) Isophorone	5.225	82	13275	1.10	ppm		94
29) 2-Nitrophenol	5.289	139	2504	0.80	ppm		75
30) 2,4-Dimethylphenol	5.316	107	6713	1.13	ppm		97
31) Benzoic Acid	5.348	105	1824m	0.51	ppm		
32) bis(2-Chloroethoxy)met...	5.380	93	7544	1.10	ppm		96
33) 2,4-Dichlorophenol	5.460	162	5808	1.12	ppm		96
34) 2,6-Dichlorophenol	5.621	162	5176	1.06	ppm		94
35) 1,3,5-Trichlorobenzene	5.300	180	7120	1.21	ppm		91
36) 1,2,4-Trichlorobenzene	5.524	180	6045	1.06	ppm		88
37) 1,2,3-Trichlorobenzene	5.685	180	6340	1.17	ppm		95
38) Naphthalene	5.578	128	21022	1.19	ppm		97
39) 4-Chloroaniline	5.610	127	8743	1.15	ppm		91
40) 2,3-Dichloroaniline	6.288	161	7483	1.19	ppm		93
41) Caprolactam	5.834	55	2777	1.09	ppm		97
42) Hexachlorobutadiene	5.674	225	3865	1.25	ppm		96
43) 4-Chloro-3-methylphenol	5.952	107	5622	1.01	ppm		96
44) 2-Methylnaphthalene	6.075	141	11812	1.14	ppm		94
45) 1-Methylnaphthalene	6.149	141	12363	1.16	ppm		97
46) Dimethylnaphthalene	6.571	156	12495	1.14	ppm		99
48) Hexachlorocyclopentadiene	6.203	237	6770	2.01	ppm		97
49) 2,4,6-Trichlorophenol	6.288	196	3967	1.12	ppm		95
50) 2,4,5-Trichlorophenol	6.315	196	3865	1.02	ppm		94
52) 2-Chloronaphthalene	6.454	162	13528	1.22	ppm		96
53) Biphenyl	6.438	154	17277	1.19	ppm		99
54) 2-Nitroaniline	6.534	65	2538	0.80	ppm		81
55) Dimethylphthalate	6.689	163	14637	1.12	ppm		99
56) Acenaphthylene	6.817	152	21405	1.15	ppm		98
57) 2,6-Dinitrotoluene	6.742	165	1851	0.73	ppm		97
58) 3-Nitroaniline	6.897	138	1893	0.63	ppm	#	70
59) Acenaphthene	6.983	153	13033	1.17	ppm		95
61) 4-Nitrophenol	7.058	109	1044	0.63	ppm	#	75
62) Dibenzofuran	7.159	168	18261	1.16	ppm		97
63) 2,4-Dinitrotoluene	7.132	165	1530	0.45	ppm		67
64) 2,3,4,6-Tetrachlorophenol	7.287	232	3031	0.95	ppm		92
65) Diethylphthalate	7.400	149	14983	1.13	ppm		97
66) Fluorene	7.533	166	15143	1.19	ppm		97
67) 4-Chlorophenyl-phenyle...	7.533	204	7194	1.21	ppm		97
68) 4-Nitroaniline	7.538	138	2203	0.69	ppm		83
71) n-Nitrosodiphenylamine	7.667	169	10248	1.12	ppm		93
72) 1,2-Diphenylhydrazine	7.720	77	15366	1.15	ppm		95
74) 4-Bromophenyl-phenylether	8.147	248	3983	1.10	ppm		90
75) Hexachlorobenzene	8.238	284	3950	1.04	ppm		95
76) Pentachlorophenol	8.516	266	3534	1.47	ppm		96
77) Phenanthrene	8.821	178	20798	1.13	ppm		96
78) Anthracene	8.901	178	21262	1.13	ppm		98

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration

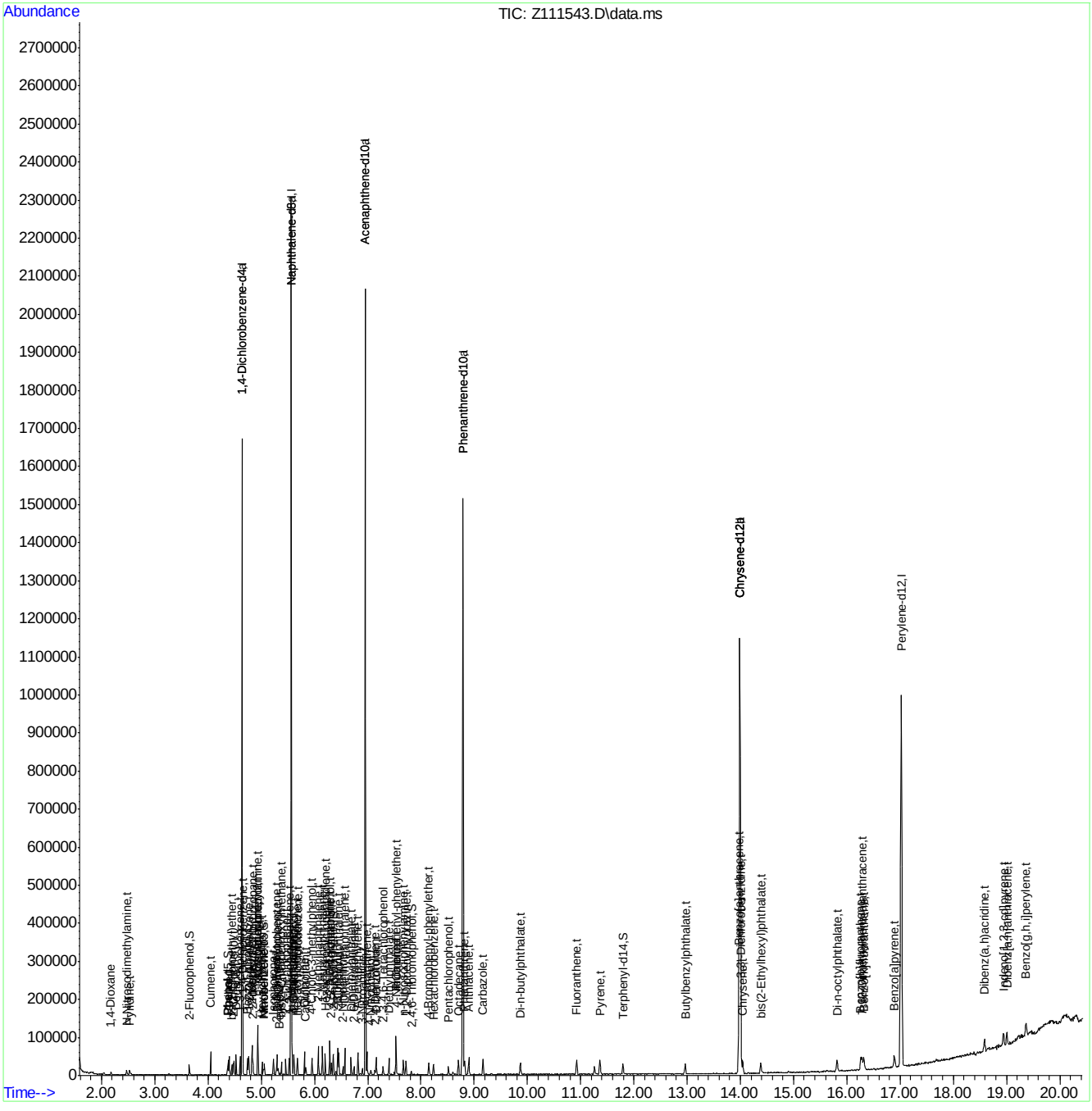
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.162	167	21112	1.16	ppm	99
80)	Di-n-butylphthalate	9.868	149	23359	1.02	ppm	96
81)	Fluoranthene	10.925	202	22235	1.07	ppm	97
82)	Octadecane	8.703	57	8008	1.07	ppm	93
84)	Pyrene	11.363	202	24446	1.06	ppm	98
86)	Butylbenzylphthalate	12.966	149	10940	1.04	ppm	94
87)	Benzo[a]anthracene	13.970	228	24531	1.20	ppm	98
88)	3,3'-Dichlorobenzidine	14.013	252	7846	1.04	ppm	87
89)	Chrysene	14.045	228	22280	1.15	ppm	97
90)	bis(2-Ethylhexyl)phtha...	14.382	149	14851	1.04	ppm	97
92)	Di-n-octylphthalate	15.819	149	25047	1.08	ppm	96
93)	Benzo[b]fluoranthene	16.262	252	22021	1.17	ppm	95
94)	Benzo[k]fluoranthene	16.321	252	21216	1.20	ppm	93
95)	Benzo[a]pyrene	16.893	252	20055	1.20	ppm	97
96)	Indeno[1,2,3-cd]pyrene	18.944	276	17602	1.18	ppm	95
97)	Dibenz(a,h)acridine	18.586	279	16316	1.17	ppm	99
98)	Dibenz[a,h]anthracene	19.008	278	18006	1.18	ppm	98
99)	7,12-Dimethylbenz(a)an...	16.289	256	8576	1.03	ppm	84
100)	Benzo[g,h,i]perylene	19.366	276	18165	1.17	ppm	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:42:49 2016 RTE

Page: 4

SGS ACCUTEST JC22206

Manual Integration Approval Summary

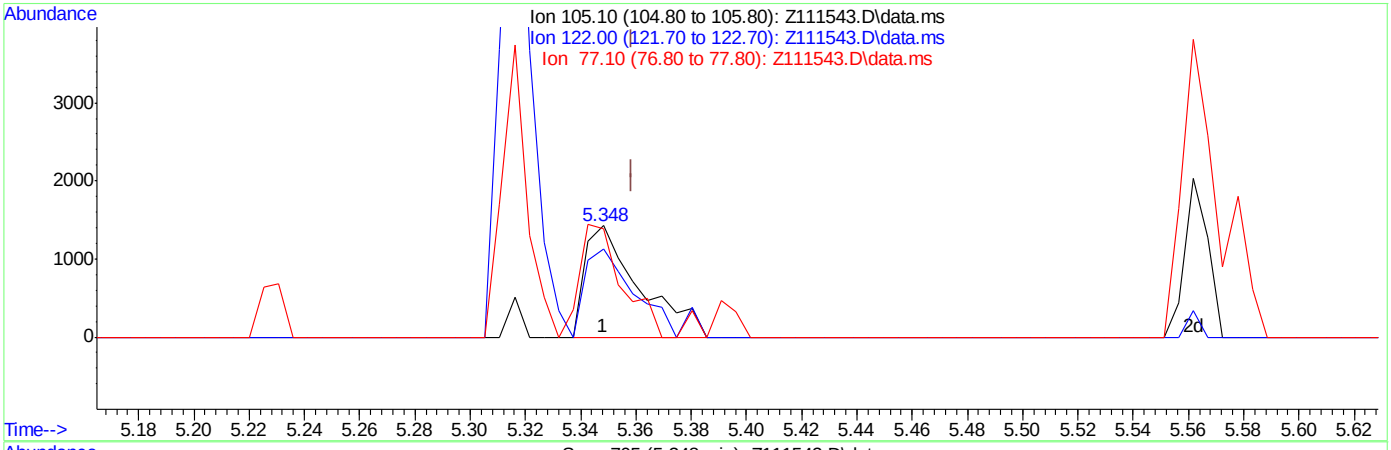
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111543.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 20:30	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

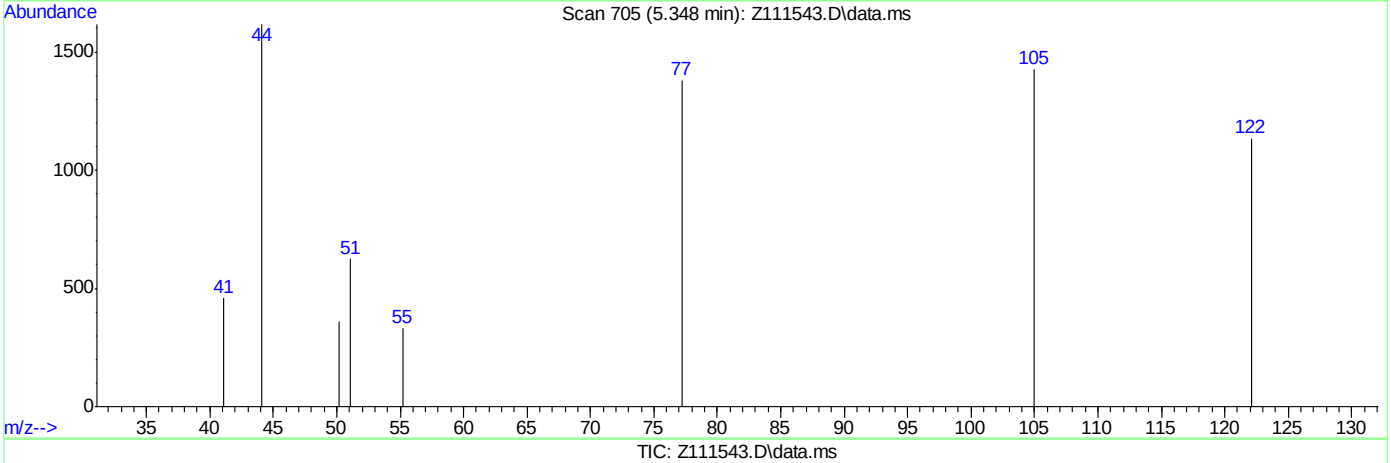
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.35	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:11:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration





TIC: Z111543.D\data.ms

(31) Benzoic Acid

5.348min (-0.011) 0.54ppm

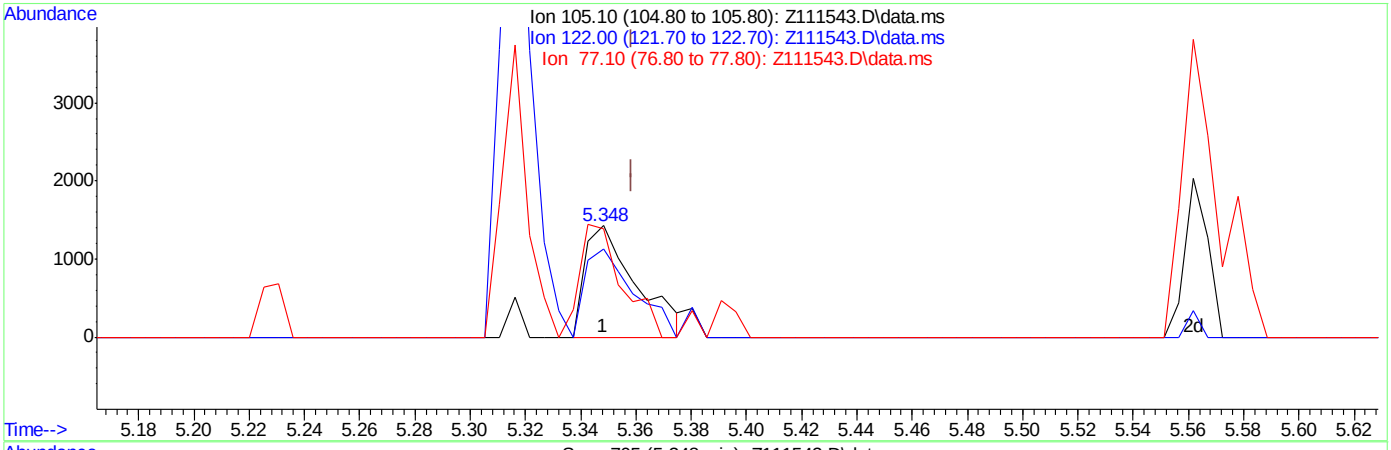
response 1943

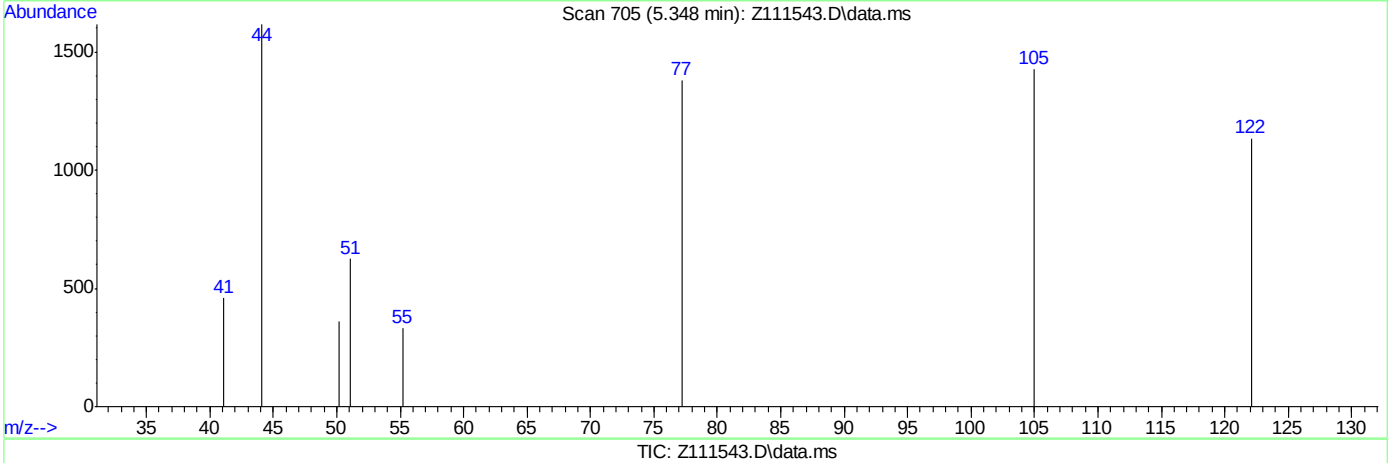
Ion	Exp%	Act%
105.10	100	100
122.00	72.90	79.40
77.10	73.60	84.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:11:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration





TIC: Z111543.D\data.ms

(31) Benzoic Acid

5.348min (-0.011) 0.51ppm m

response 1824

Ion	Exp%	Act%
105.10	100	100
122.00	72.90	79.40
77.10	73.60	96.71#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111545.D
Acq On : 15 Jun 2016 8:19 am
Operator : ariellec
Sample : ic5573-100
Misc : op94271,ez5573
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 08:42:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:41:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	168263	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	656372	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	373356	40.00	ppm	0.00
69) Phenanthrene-d10	8.789	188	608560	40.00	ppm	0.00
83) Chrysene-d12	13.992	240	592249	40.00	ppm	0.00
91) Perylene-d12	17.021	264	527157	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	168263	40.00	ppm	0.00
103) Phenanthrene-d10a	8.789	188	608560	40.00	ppm	0.00
107) Chrysene-d12a	13.992	240	592249	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	373356	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	656372	40.00	ppm	0.00
113) Chrysene-d12b	13.992	240	592249	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%	
104) 1-chlorooctadecane	10.915	57	386949	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
105) o-terphenyl	9.456	230	737287	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	330208	99.78	ppm	97
106) Atrazine	8.404	215	145136	100.00	ppm	86
108) Benzidine	11.262	184	427995	100.00	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.208	216	422412	100.00	ppm	99
112) Hydroquinone	5.856	110	489258	100.00	ppm	98

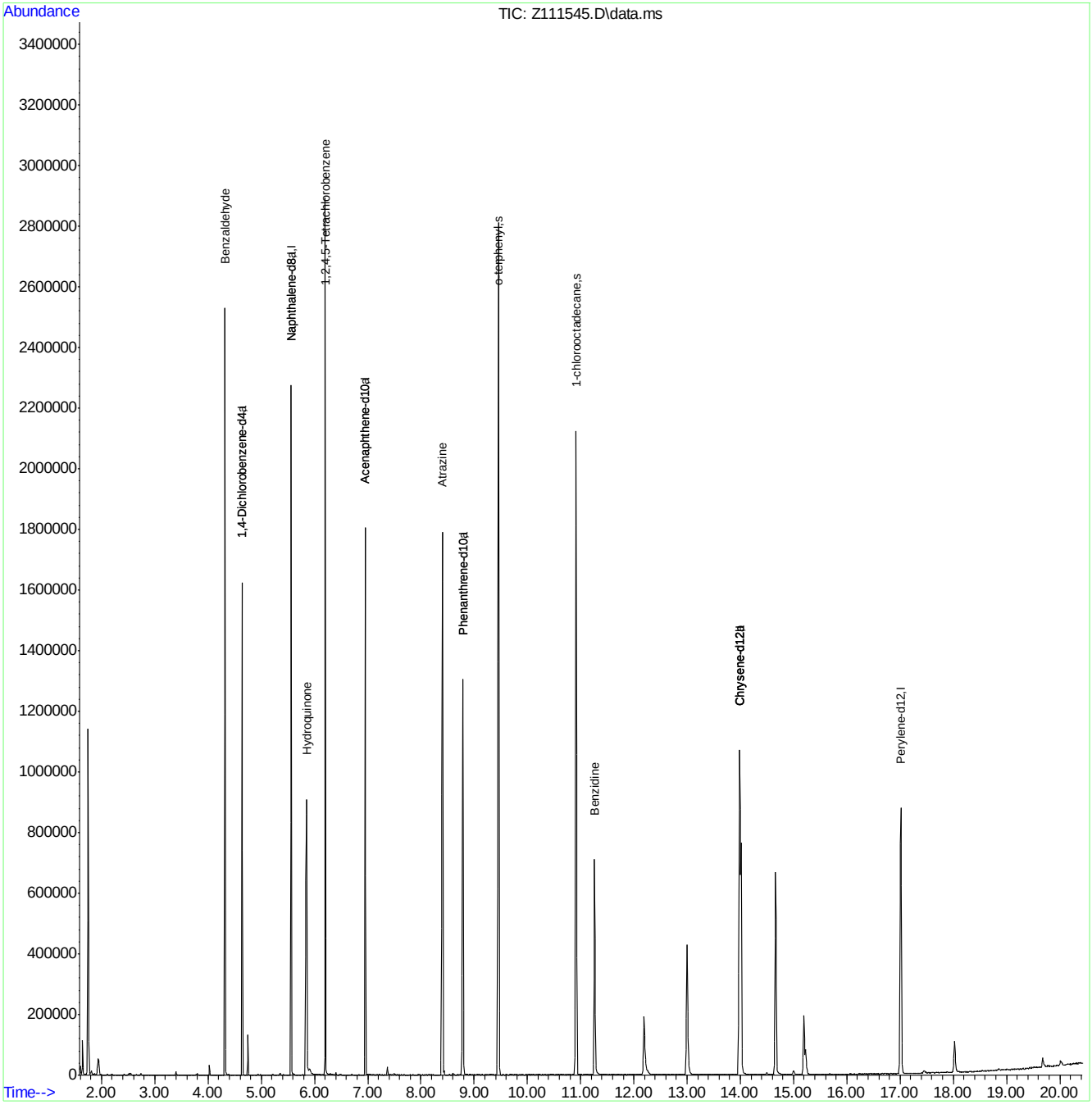
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111545.D
Acq On : 15 Jun 2016 8:19 am
Operator : ariellec
Sample : ic5573-100
Misc : op94271,ez5573
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 08:42:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:41:40 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:42:09 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111546.D
Acq On : 15 Jun 2016 8:48 am
Operator : ariellec
Sample : ic5573-80
Misc : op94271,ez5573
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 09:19:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:18:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	167894	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	634586	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	363250	40.00	ppm	0.00
69) Phenanthrene-d10	8.788	188	607375	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	628309	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	569334	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	167894	40.00	ppm	0.00
103) Phenanthrene-d10a	8.788	188	607375	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	628309	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	363250	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	634586	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	628309	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%			
104) 1-chlorooctadecane	10.915	57	317642	81.11	ppm	0.00
Spiked Amount 50.000			Recovery = 162.22%			
105) o-terphenyl	9.456	230	604951	81.09	ppm	0.00
Spiked Amount 50.000			Recovery = 162.18%			
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	291691	83.96	ppm	95
106) Atrazine	8.404	215	119257	81.15	ppm	90
108) Benzidine	11.262	184	458246	89.25	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.203	216	337543	81.05	ppm	98
112) Hydroquinone	5.850	110	384204	80.61	ppm	100

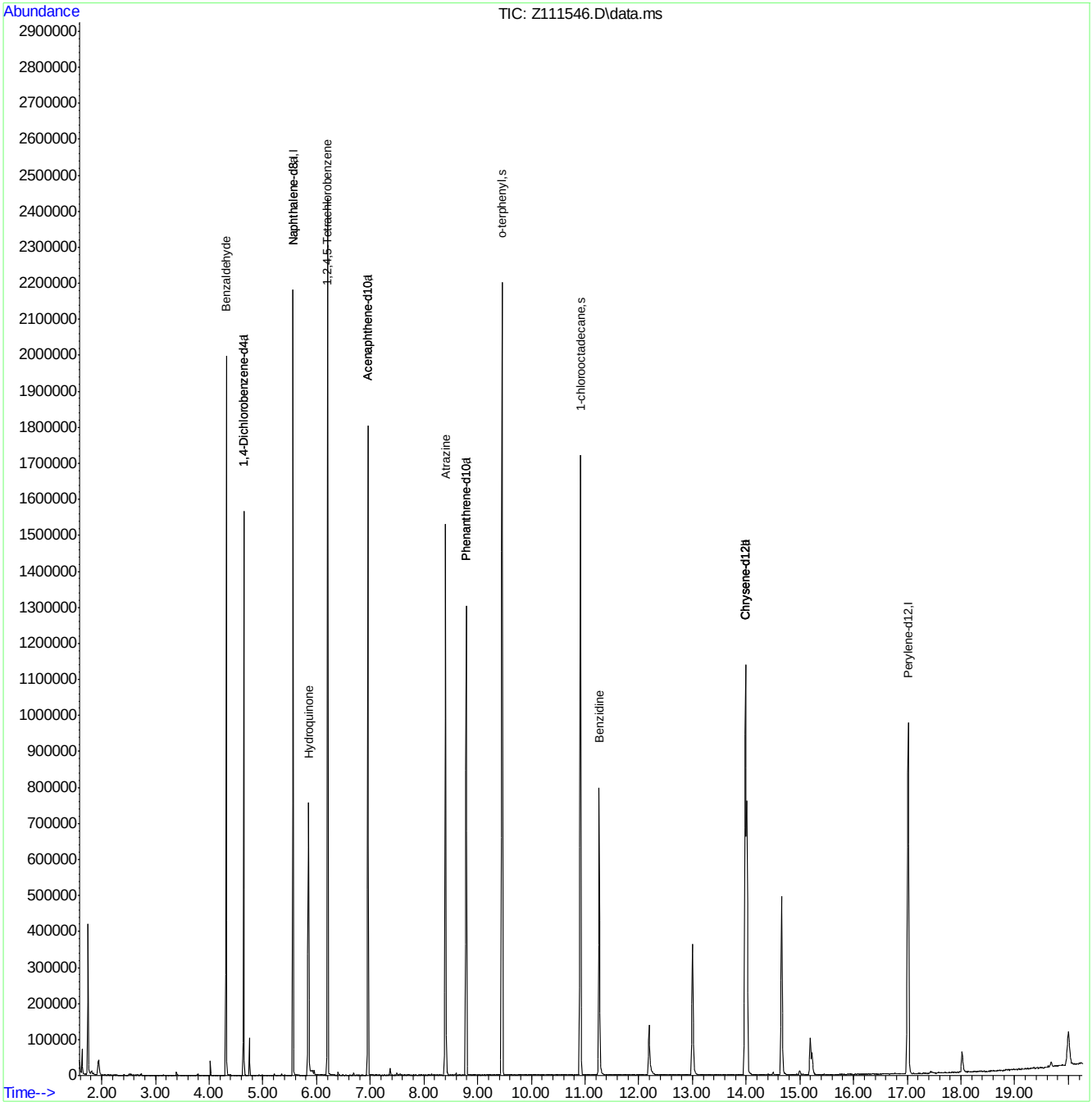
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111546.D
Acq On : 15 Jun 2016 8:48 am
Operator : ariellec
Sample : ic5573-80
Misc : op94271,ez5573
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 09:19:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:18:40 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 09:19:26 2016 RTE

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111547.D
Acq On : 15 Jun 2016 9:17 am
Operator : ariellec
Sample : icc5573-50
Misc : op94271,ez5573
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 09:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:54:00 2016
Response via : Initial Calibration

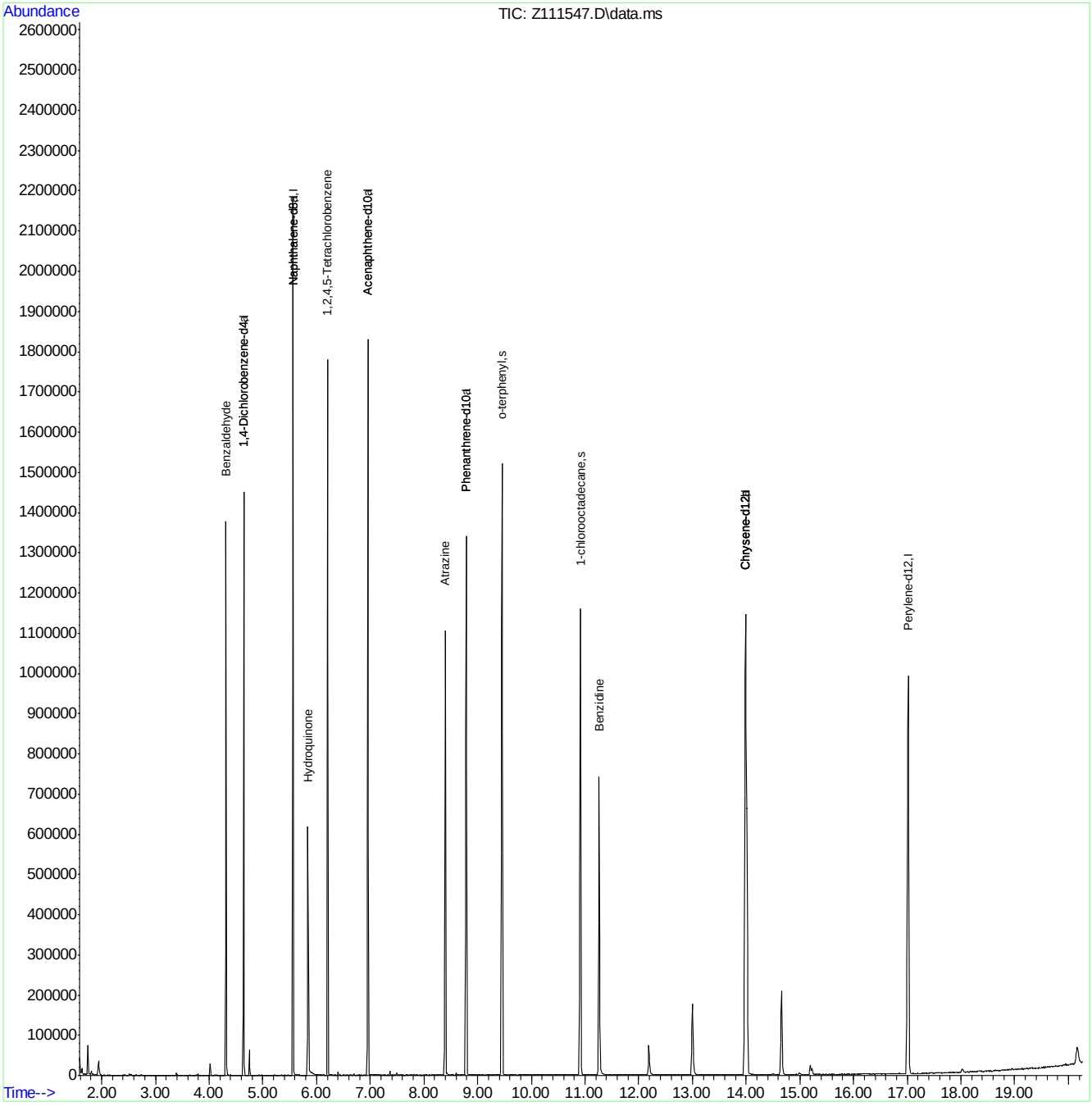
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	165199	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	635468	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	368761	40.00	ppm	0.00
69) Phenanthrene-d10	8.789	188	635147	40.00	ppm	0.00
83) Chrysene-d12	13.987	240	643097	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	589351	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	165199	40.00	ppm	0.00
103) Phenanthrene-d10a	8.789	188	635147	40.00	ppm	0.00
107) Chrysene-d12a	13.987	240	643097	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	368761	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	635468	40.00	ppm	0.00
113) Chrysene-d12b	13.987	240	643097	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%	
104) 1-chlorooctadecane	10.915	57	211960	51.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.32%	
105) o-terphenyl	9.451	230	408894	51.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.16%	
Target Compounds						Qvalue
102) Benzaldehyde	4.312	105	205573	56.33	ppm	100
106) Atrazine	8.399	215	78057	50.52	ppm	100
108) Benzidine	11.262	184	414986	66.19	ppm	100
110) 1,2,4,5-Tetrachloroben...	6.203	216	224312	52.00	ppm	100
112) Hydroquinone	5.840	110	249538	51.50	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111547.D
Acq On : 15 Jun 2016 9:17 am
Operator : ariellec
Sample : icc5573-50
Misc : op94271,ez5573
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 09:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:54:00 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 09:55:04 2016 RTE

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111548.D
Acq On : 15 Jun 2016 9:47 am
Operator : ariellec
Sample : ic5573-25
Misc : op94271,ez5573
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 10:14:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:14:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	169252	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	651814	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	384304	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	654774	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	661066	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	609419	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	169252	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	654774	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	661066	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	384304	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	651814	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	661066	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%			
104) 1-chlorooctadecane	10.909	57	107679	25.16	ppm	0.00
Spiked Amount 50.000			Recovery = 50.32%			
105) o-terphenyl	9.451	230	213615	25.85	ppm	0.00
Spiked Amount 50.000			Recovery = 51.70%			
Target Compounds						Qvalue
102) Benzaldehyde	4.311	105	110533	28.27	ppm	99
106) Atrazine	8.393	215	39868	25.02	ppm	97
108) Benzidine	11.256	184	261991	35.15	ppm	99
110) 1,2,4,5-Tetrachloroben...	6.203	216	118861	26.06	ppm	99
112) Hydroquinone	5.839	110	122823	24.78	ppm	95

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

7.6.129

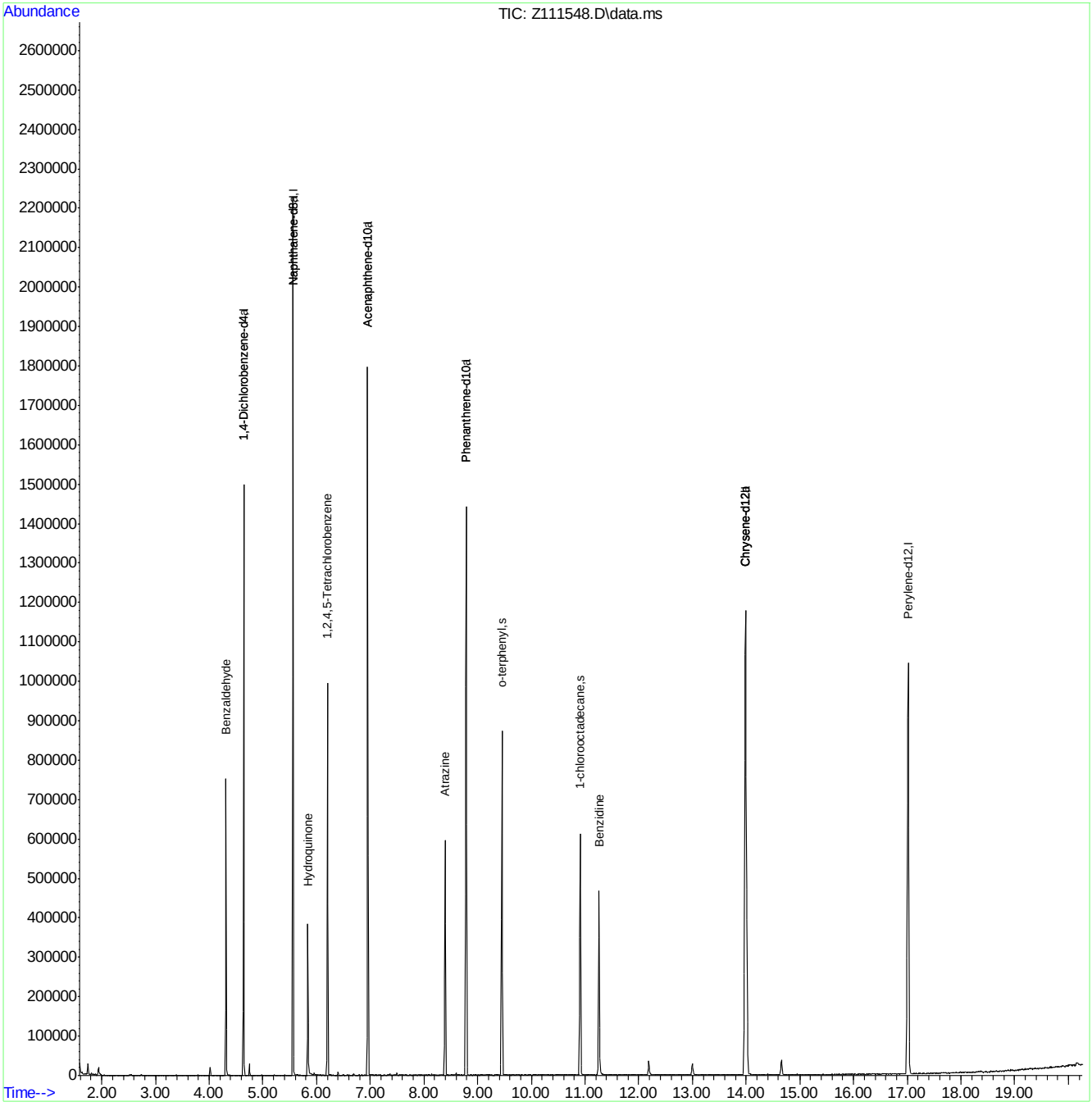
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111548.D
Acq On : 15 Jun 2016 9:47 am
Operator : ariellec
Sample : ic5573-25
Misc : op94271,ez5573
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 10:14:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:14:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111549.D
Acq On : 15 Jun 2016 10:16 am
Operator : ariellec
Sample : ic5573-10
Misc : op94271,ez5573
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 10:53:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:53:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	172403	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	656368	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	385346	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	650591	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	659696	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	603598	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	172403	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	650591	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	659696	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	385346	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	656368	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	659696	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%	
104) 1-chlorooctadecane	10.904	57	44570	10.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.76%	
105) o-terphenyl	9.451	230	93144	11.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	22.10%	
Target Compounds						Qvalue
102) Benzaldehyde	4.312	105	47584	11.50	ppm	98
106) Atrazine	8.388	215	17102	10.63	ppm	94
108) Benzidine	11.257	184	110392	13.53	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.203	216	51774	11.03	ppm	99
112) Hydroquinone	5.834	110	43664	8.79	ppm	98

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

7.6.130

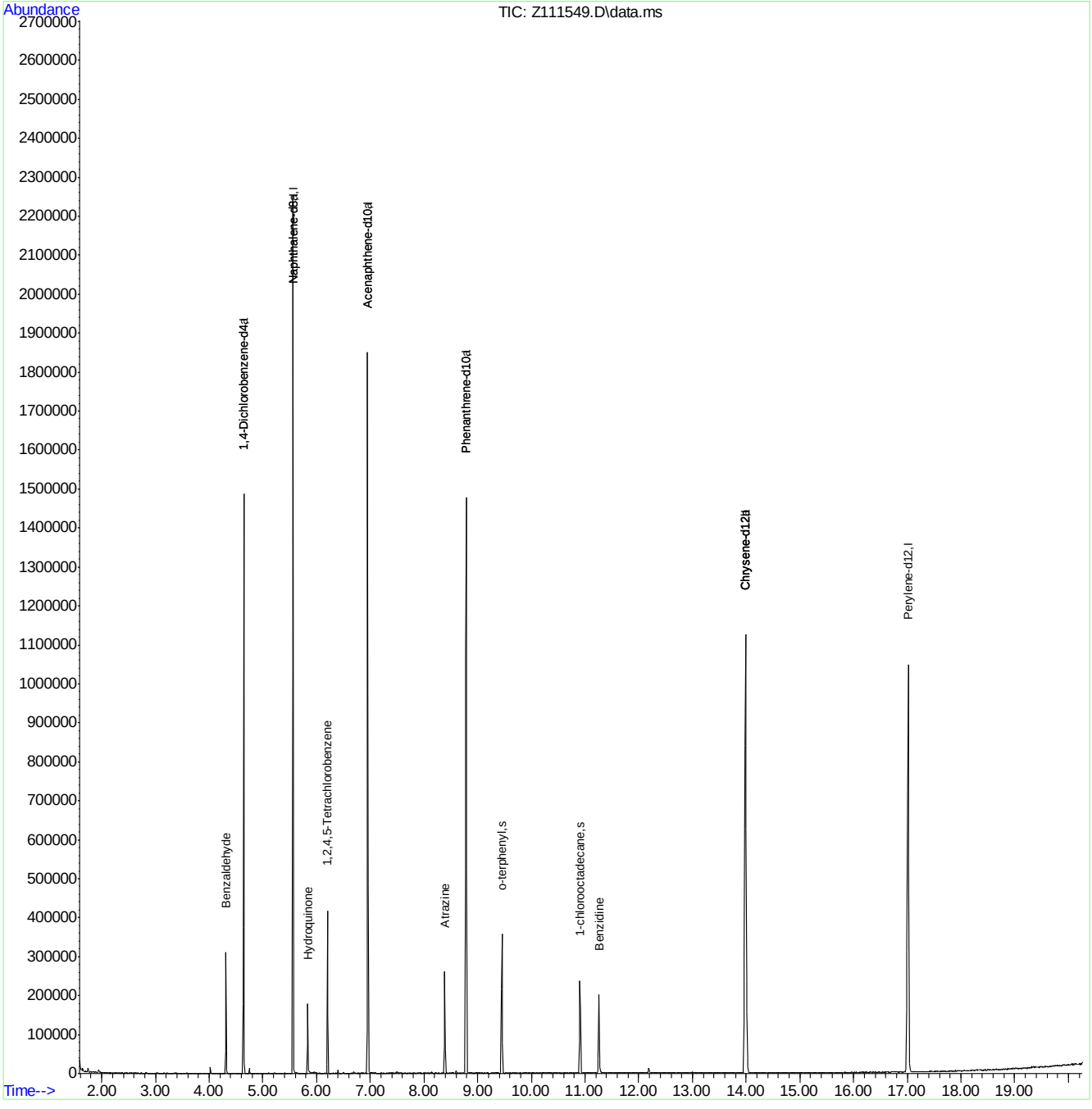
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111549.D
Acq On : 15 Jun 2016 10:16 am
Operator : ariellec
Sample : ic5573-10
Misc : op94271,ez5573
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 10:53:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:53:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111550.D
Acq On : 15 Jun 2016 10:46 am
Operator : ariellec
Sample : ic5573-5
Misc : op94271,ez5573
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 11:08:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	177819	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	678641	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	397513	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	680866	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	693017	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	637256	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	177819	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	680866	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	693017	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	397513	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	678641	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	693017	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%	
104) 1-chlorooctadecane	10.904	57	20336	4.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.20%	
105) o-terphenyl	9.446	230	43873	4.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.96%	
Target Compounds						Qvalue
102) Benzaldehyde	4.312	105	23578	5.43	ppm	97
106) Atrazine	8.388	215	7853	4.72	ppm	95
108) Benzidine	11.257	184	50265	5.70	ppm	99
110) 1,2,4,5-Tetrachloroben...	6.203	216	25487	5.22	ppm	100
112) Hydroquinone	5.834	110	19412	3.87	ppm	96

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

7.6.131

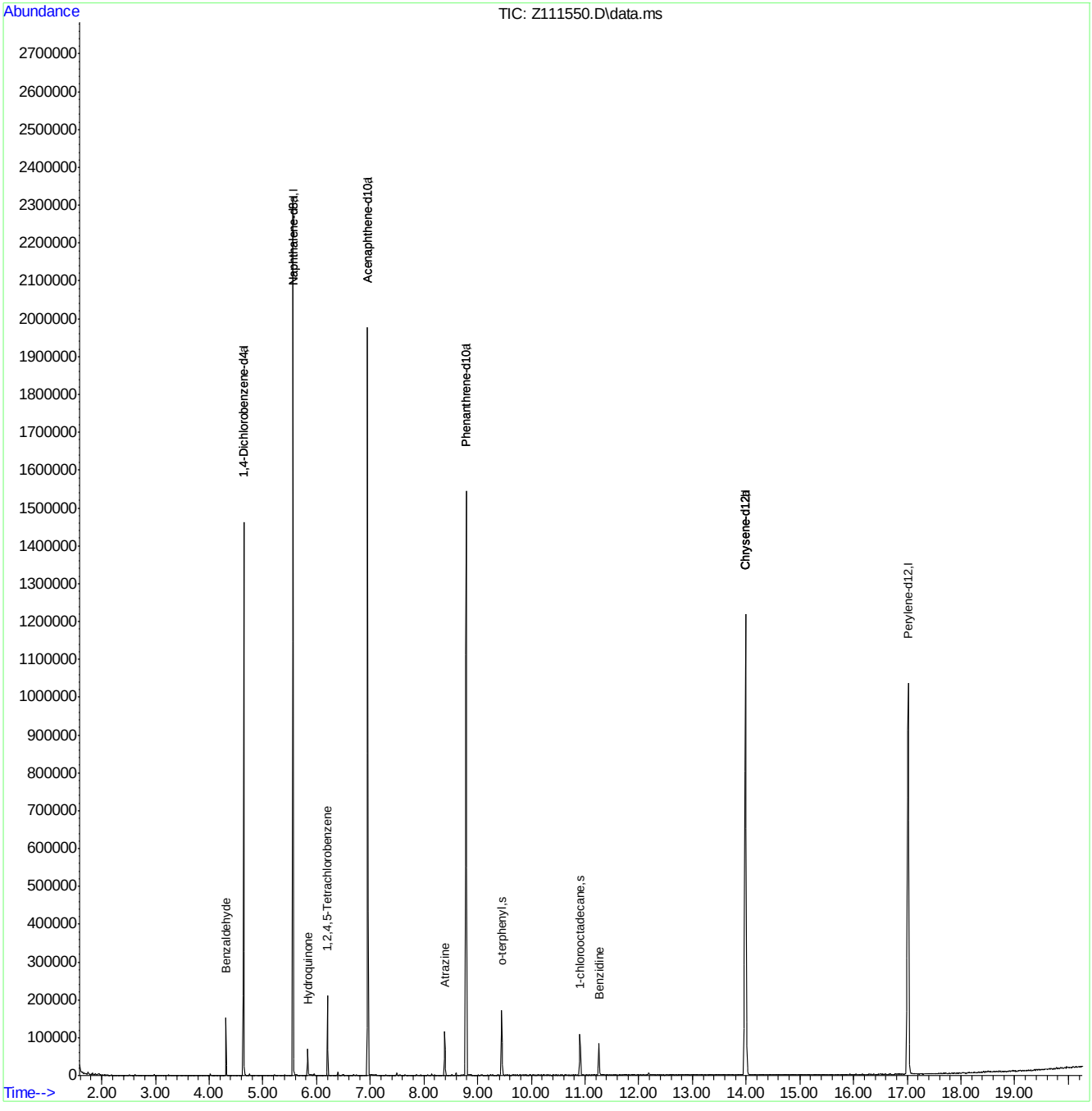
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111550.D
Acq On : 15 Jun 2016 10:46 am
Operator : ariellec
Sample : ic5573-5
Misc : op94271,ez5573
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 11:08:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111551.D
Acq On : 15 Jun 2016 11:16 am
Operator : ariellec
Sample : ic5573-2
Misc : op94271,ez5573
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 17:09:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	180048	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	680752	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	391464	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	667613	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	682353	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	629531	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	180048	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	667613	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	682353	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	391464	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	680752	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	682353	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%	
104) 1-chlorooctadecane	10.909	57	9663	2.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.46%	
105) o-terphenyl	9.446	230	20800	2.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.82%	
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	11117	2.53	ppm	97
106) Atrazine	8.388	215	3470	2.13	ppm	80
108) Benzidine	11.257	184	6474	0.75	ppm	91
110) 1,2,4,5-Tetrachloroben...	6.203	216	11910	2.48	ppm	90
112) Hydroquinone	5.834	110	7628	1.51	ppm	94

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

7.6.132

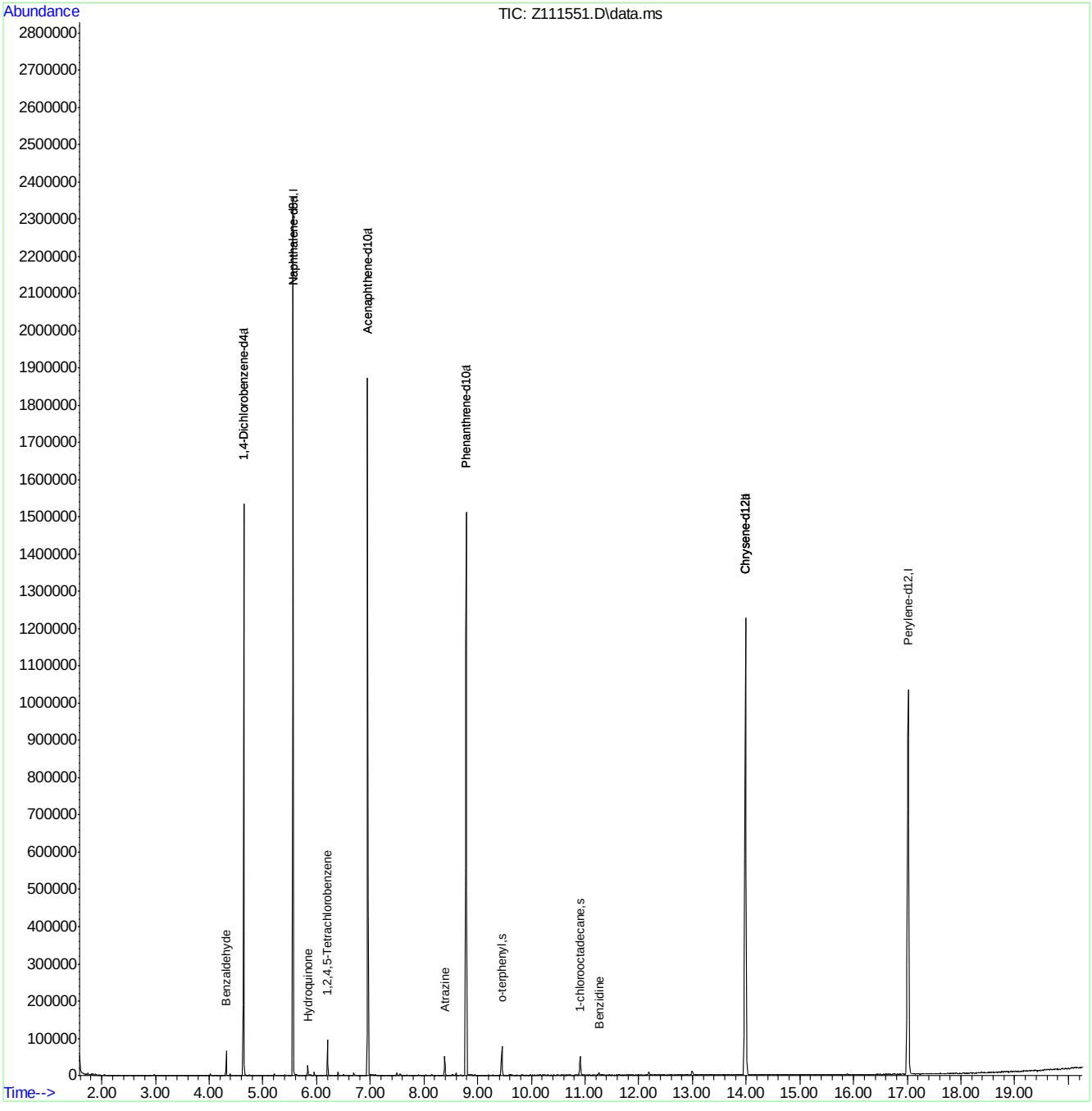
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111551.D
Acq On : 15 Jun 2016 11:16 am
Operator : ariellec
Sample : ic5573-2
Misc : op94271,ez5573
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 17:09:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration



MZ5571.M Fri Jun 17 17:09:47 2016 RTE

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111552.D
Acq On : 15 Jun 2016 11:46 am
Operator : ariellec
Sample : ic5573-1
Misc : op94271,ez5573
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 12:14:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:14:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	177205	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	687772	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	404763	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	682094	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	689110	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	632115	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	177205	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	682094	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	689110	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	404763	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	687772	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	689110	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%	
104) 1-chlorooctadecane	10.909	57	3516	0.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.60%	
105) o-terphenyl	9.446	230	8578	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	4614	1.02	ppm	89
106) Atrazine	8.388	215	1531	0.92	ppm #	66
108) Benzidine	11.251	184	6538	0.84	ppm	95
110) 1,2,4,5-Tetrachloroben...	6.203	216	4912	0.96	ppm	94
112) Hydroquinone	5.840	110	1970	0.43	ppm	86

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

7.6.133

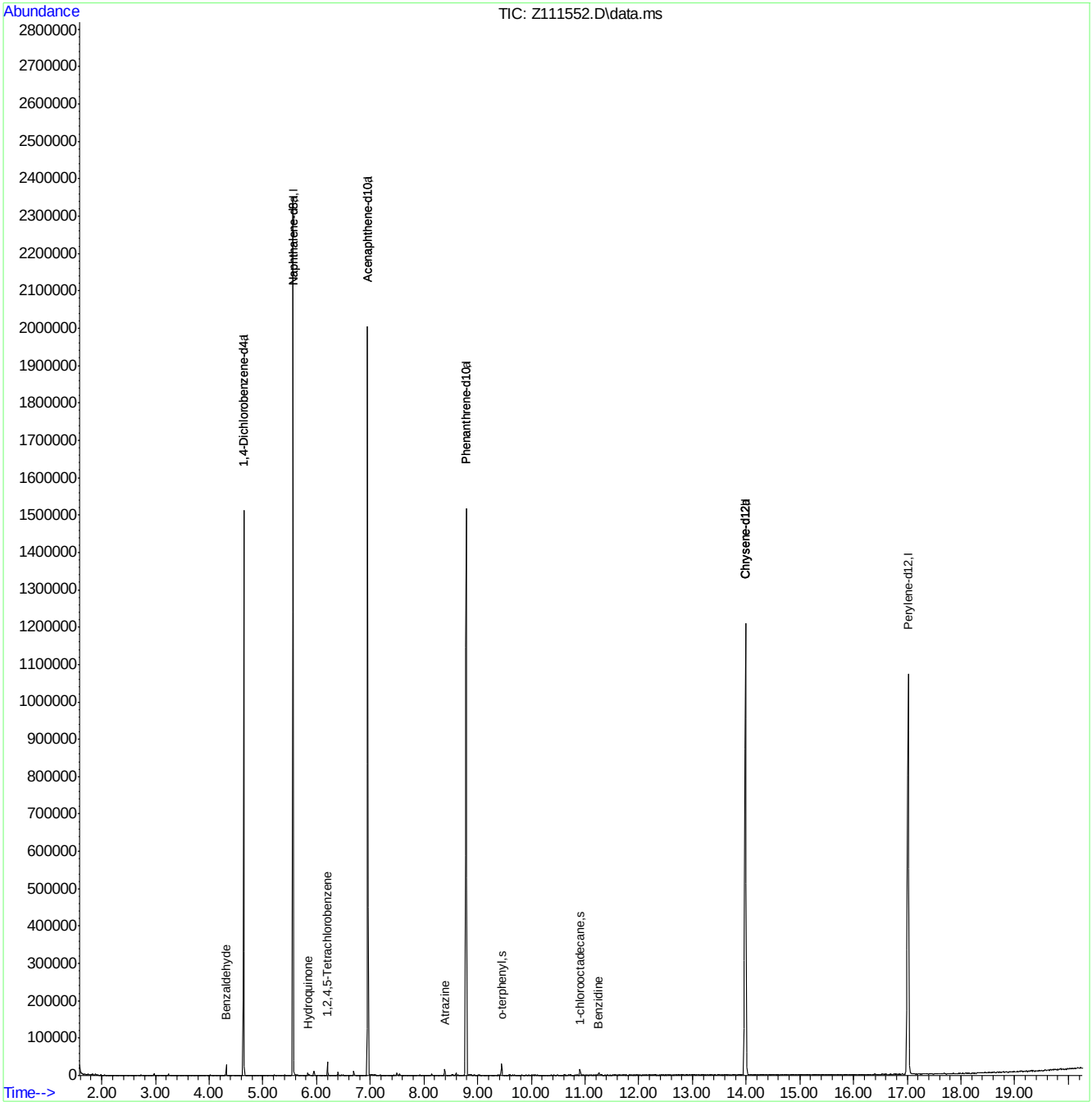
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111552.D
Acq On : 15 Jun 2016 11:46 am
Operator : ariellec
Sample : ic5573-1
Misc : op94271,ez5573
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 12:14:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:14:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111554.D
Acq On : 15 Jun 2016 12:45 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 15 13:43:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	200835	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	760904	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	427146	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	708933	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	674293	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	599680	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	200835	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	708933	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	674293	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	427146	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	760904	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	674293	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.655	112	319318	46.00	ppm	0.00
Spiked Amount 50.000			Recovery = 92.00%			
8) Phenol-d5	4.370	99	391549	44.59	ppm	0.00
Spiked Amount 50.000			Recovery = 89.18%			
25) Nitrobenzene-d5	5.044	82	334097	46.43	ppm	0.00
Spiked Amount 50.000			Recovery = 92.86%			
51) 2-Fluorobiphenyl	6.352	172	645163	46.73	ppm	0.00
Spiked Amount 50.000			Recovery = 93.46%			
73) 2,4,6-Tribromophenol	7.816	330	67540	42.89	ppm	0.00
Spiked Amount 50.000			Recovery = 85.78%			
85) Terphenyl-d14	11.796	244	632830	43.35	ppm	0.00
Spiked Amount 50.000			Recovery = 86.70%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds Qvalue

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

7.6.134

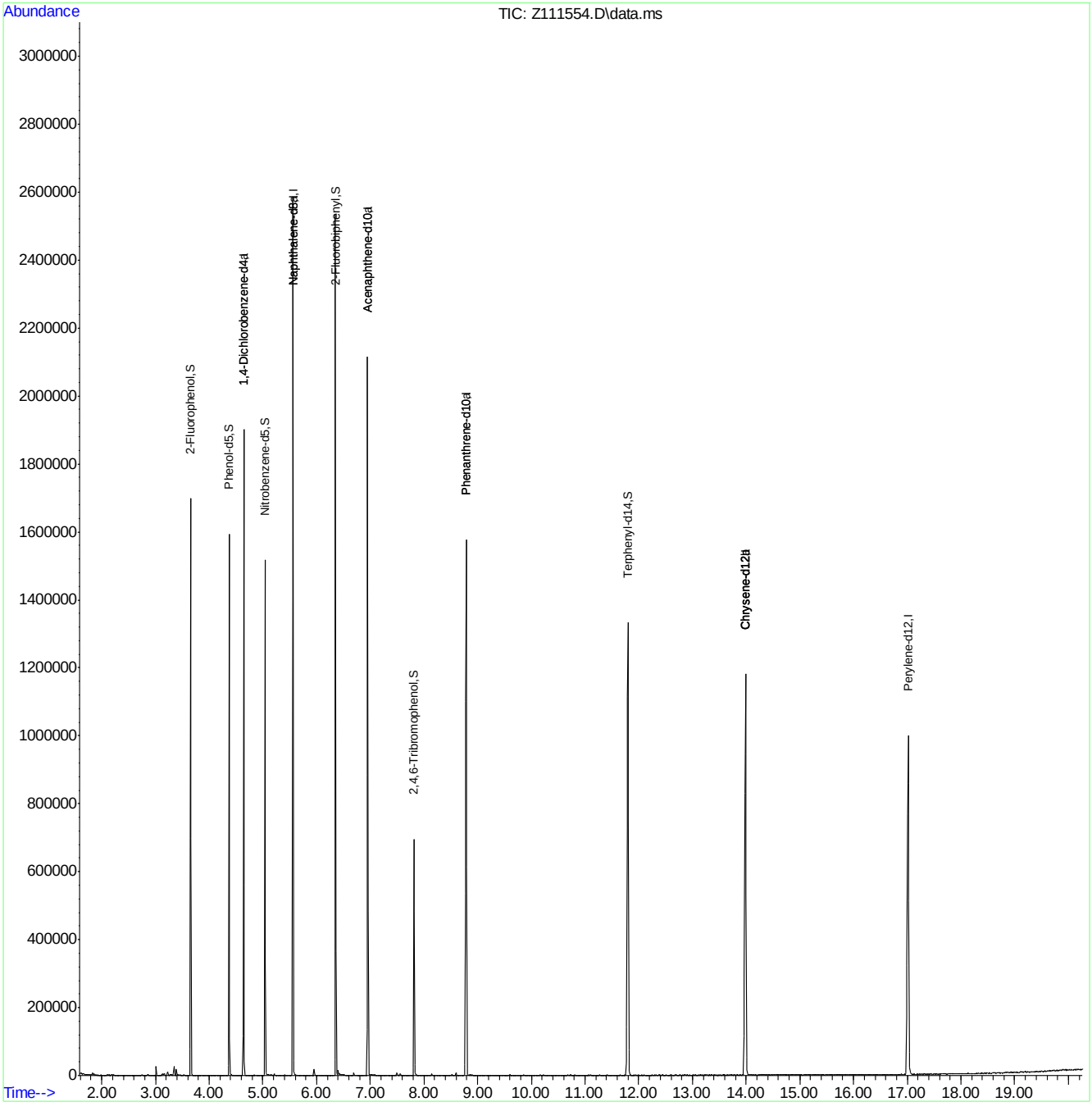
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111554.D
Acq On : 15 Jun 2016 12:45 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 15 13:43:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 13:43:48 2016 RTE

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111555.D
Acq On : 15 Jun 2016 1:15 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 15 13:46:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	163735	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	655318	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	366826	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	633994	40.00	ppm	0.00
83) Chrysene-d12	13.981	240	624233	40.00	ppm	-0.02
91) Perylene-d12	17.010	264	559531	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	163735	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	633994	40.00	ppm	0.00
107) Chrysene-d12a	13.981	240	624233	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	366826	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	655318	40.00	ppm	0.00
113) Chrysene-d12b	13.981	240	624233	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%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
3) Pyridine	2.581	79	315933	48.38	ppm	99
10) Aniline	4.402	93	460953	53.80	ppm	64
16) Benzyl alcohol	4.744	108	186404	51.25	ppm	100
39) 4-Chloroaniline	5.615	127	337397	45.08	ppm	100
44) 2-Methylnaphthalene	6.074	141	449841	44.22	ppm	99
54) 2-Nitroaniline	6.534	65	134783	46.68	ppm	92
58) 3-Nitroaniline	6.903	138	129783	48.74	ppm	93
62) Dibenzofuran	7.159	168	714777	47.28	ppm	99
68) 4-Nitroaniline	7.549	138	127879	44.80	ppm	95
79) Carbazole	9.168	167	792797	45.08	ppm	99

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

7.6.135

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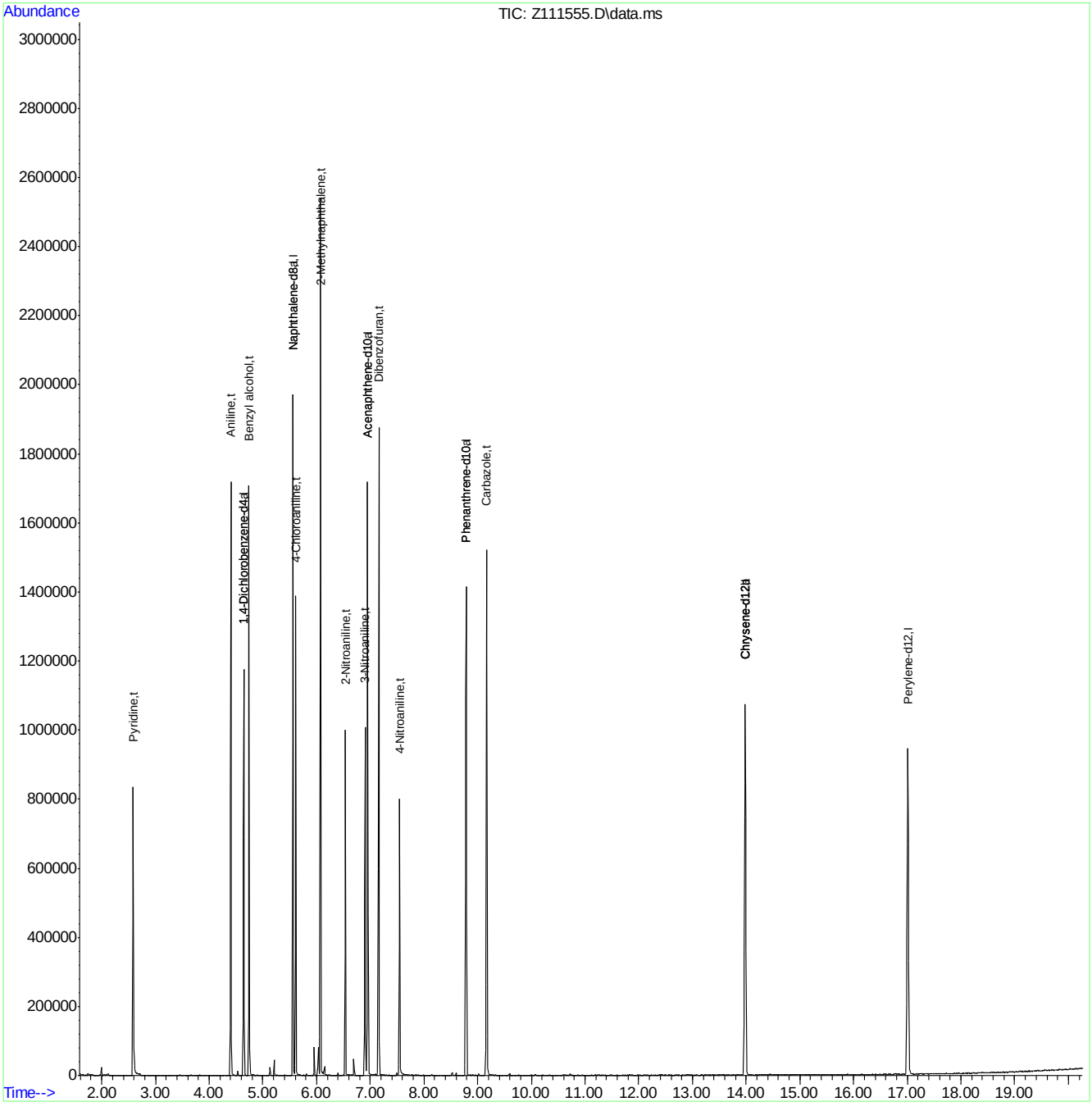
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111555.D
Acq On : 15 Jun 2016 1:15 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 15 13:46:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111558.D
Acq On : 15 Jun 2016 2:44 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 16 09:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:20:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	174078	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	658609	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	384147	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	658295	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	680207	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	626712	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	174078	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	658295	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	680207	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	384147	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	658609	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	680207	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%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	14.013	252	318654	41.58	ppm	98

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

7.6.136

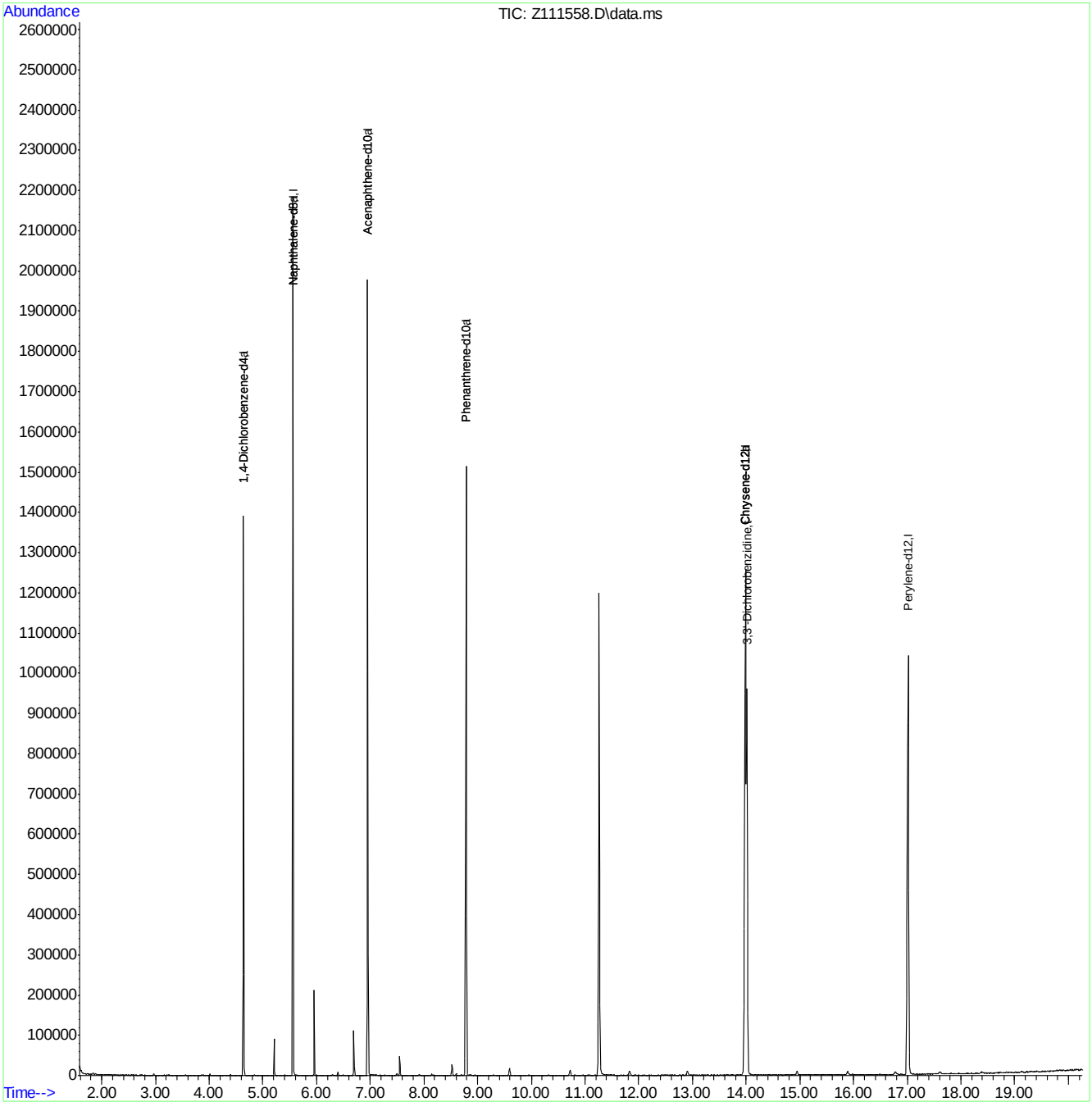
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111558.D
Acq On : 15 Jun 2016 2:44 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 16 09:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:20:46 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:36:38 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111559.D
Acq On : 15 Jun 2016 3:14 pm
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5573
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 16 09:26:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	163732	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	612950	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	346397	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	584973	40.00	ppm	0.00
83) Chrysene-d12	13.981	240	585907	40.00	ppm	-0.02
91) Perylene-d12	17.010	264	543275	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	163732	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	584973	40.00	ppm	0.00
107) Chrysene-d12a	13.981	240	585907	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	346397	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	612950	40.00	ppm	0.00
113) Chrysene-d12b	13.981	240	585907	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%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
112) Hydroquinone	5.840	110	256704	61.76	ppm	99

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

7.6.137

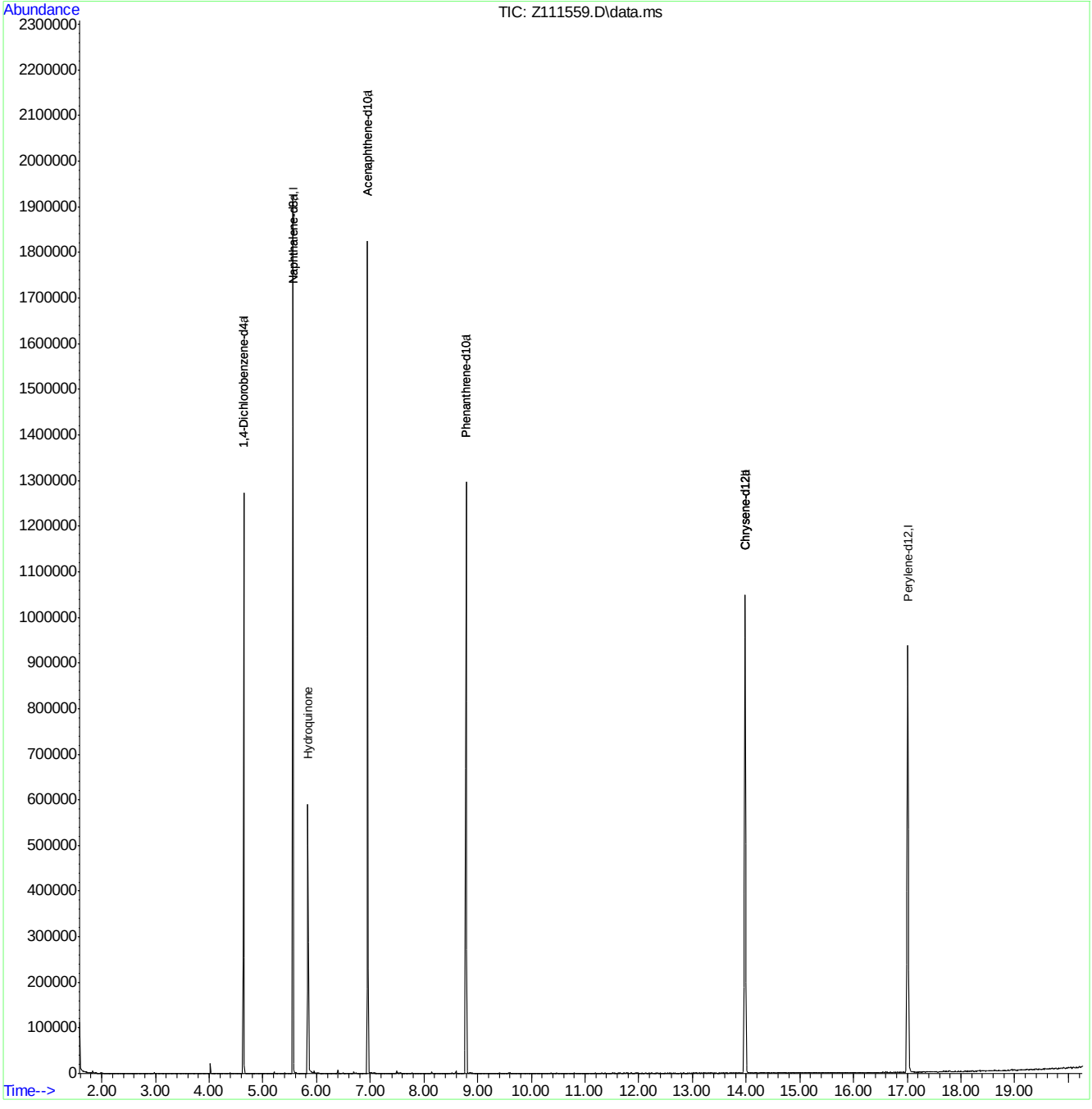
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111559.D
Acq On : 15 Jun 2016 3:14 pm
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5573
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 16 09:26:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:43:49 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111561.D
Acq On : 15 Jun 2016 5:03 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 09:45:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.637	152	177942	40.00	ppm	0.00
24) Naphthalene-d8	5.556	136	634443	40.00	ppm	0.00
47) Acenaphthene-d10	6.945	164	377693	40.00	ppm	-0.01
69) Phenanthrene-d10	8.778	188	635554	40.00	ppm	-0.01
83) Chrysene-d12	13.976	240	625061	40.00	ppm	-0.02
91) Perylene-d12	17.005	264	559166	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.637	152	177942	40.00	ppm	0.00
103) Phenanthrene-d10a	8.778	188	635554	40.00	ppm	0.00
107) Chrysene-d12a	13.976	240	625061	40.00	ppm	-0.01
109) Acenaphthene-d10a	6.945	164	377693	40.00	ppm	0.00
111) Naphthalene-d8a	5.556	136	634443	40.00	ppm	0.00
113) Chrysene-d12b	13.976	240	625061	40.00	ppm	-0.01
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%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
9) Phenol	4.381	94	371300	43.94	ppm	94
12) 2-Chlorophenol	4.483	128	300615	45.98	ppm	95
19) 2-Methylphenol	4.819	108	262559	47.65	ppm	99
21) 3&4-Methylphenol	4.931	108	272572	47.26	ppm	99
29) 2-Nitrophenol	5.284	139	154248	54.40	ppm	92
30) 2,4-Dimethylphenol	5.311	107	284280	50.66	ppm	99
31) Benzoic Acid	5.396	105	203302	56.03	ppm	96
33) 2,4-Dichlorophenol	5.455	162	225411	45.80	ppm	98
34) 2,6-Dichlorophenol	5.615	162	217212	47.30	ppm	98
43) 4-Chloro-3-methylphenol	5.946	107	245530	47.35	ppm	90
49) 2,4,6-Trichlorophenol	6.283	196	170411	49.09	ppm	99
50) 2,4,5-Trichlorophenol	6.310	196	158810	43.21	ppm	100
60) 2,4-Dinitrophenol	6.993	184	61163	55.99	ppm #	68
61) 4-Nitrophenol	7.058	109	82784	54.46	ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.282	232	139706	46.02	ppm	98
70) 4,6-Dinitro-2-methylph...	7.576	198	99537	51.17	ppm	97
76) Pentachlorophenol	8.505	266	116107	52.60	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111561.D
Acq On : 15 Jun 2016 5:03 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 09:45:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

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

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

7.6.138

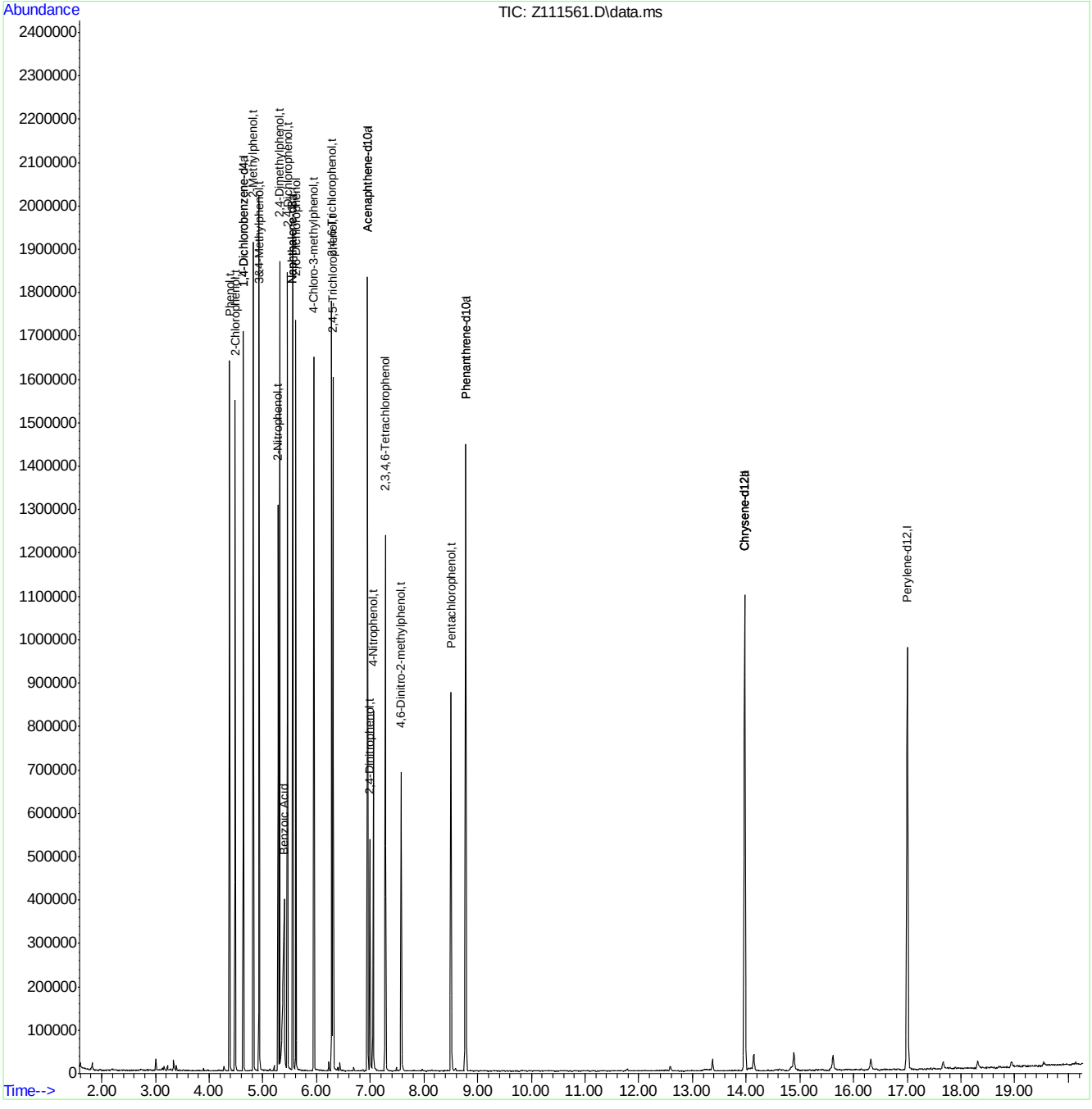
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111561.D
Acq On : 15 Jun 2016 5:03 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 09:45:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:55:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.637	152	171765	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	628315	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	360539	40.00	ppm	0.00
69) Phenanthrene-d10	8.778	188	610746	40.00	ppm	-0.01
83) Chrysene-d12	13.986	240	547371	40.00	ppm	-0.01
91) Perylene-d12	17.005	264	493230	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.637	152	171765	40.00	ppm	0.00
103) Phenanthrene-d10a	8.778	188	610746	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	547371	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	360539	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	628315	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	547371	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	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%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.463	74	162707	42.38	ppm	98
11) bis(2-Chloroethyl)ether	4.440	93	263100	49.30	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	313009	45.20	ppm	99
15) 1,4-Dichlorobenzene	4.653	146	298543	43.27	ppm	99
17) 1,2-Dichlorobenzene	4.766	146	288271	45.37	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.840	121	72152	41.54	ppm	93
22) n-Nitroso-di-n-propyla...	4.931	70	192567	43.48	ppm	99
23) Hexachloroethane	5.011	201	103525	44.73	ppm	93
26) Nitrobenzene	5.054	77	275751	44.88	ppm	95
28) Isophorone	5.225	82	505596	44.70	ppm	98
32) bis(2-Chloroethoxy)met...	5.380	93	300077	46.85	ppm	98
36) 1,2,4-Trichlorobenzene	5.519	180	240313	45.17	ppm	97
38) Naphthalene	5.572	128	721550	43.14	ppm	99
42) Hexachlorobutadiene	5.668	225	133630	45.26	ppm	98
48) Hexachlorocyclopentadiene	6.197	237	134998	43.38	ppm	99
52) 2-Chloronaphthalene	6.448	162	483013	45.83	ppm	95
55) Dimethylphthalate	6.689	163	524983	43.21	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:55:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56)	Acenaphthylene	6.812	152	732378	41.94	ppm	100
57)	2,6-Dinitrotoluene	6.742	165	110476	49.51	ppm	99
59)	Acenaphthene	6.983	153	448676	42.78	ppm	95
63)	2,4-Dinitrotoluene	7.132	165	137920	40.13	ppm	80
65)	Diethylphthalate	7.394	149	522470	42.34	ppm	98
66)	Fluorene	7.528	166	493690	41.14	ppm	99
67)	4-Chlorophenyl-phenyle...	7.528	204	236194	41.91	ppm	97
71)	n-Nitrosodiphenylamine	7.666	169	345041	40.95	ppm	99
72)	1,2-Diphenylhydrazine	7.715	77	521544	41.98	ppm	98
74)	4-Bromophenyl-phenylether	8.142	248	147390	44.08	ppm	99
75)	Hexachlorobenzene	8.233	284	147352	42.33	ppm	97
77)	Phenanthrene	8.815	178	714612	41.95	ppm	100
78)	Anthracene	8.895	178	706505	40.47	ppm	99
80)	Di-n-butylphthalate	9.862	149	894465	43.00	ppm	100
81)	Fluoranthene	10.920	202	798326	41.78	ppm	99
84)	Pyrene	11.358	202	799450	42.28	ppm	99
86)	Butylbenzylphthalate	12.955	149	382527	44.42	ppm	97
87)	Benzo[a]anthracene	13.960	228	727879	42.49	ppm	99
89)	Chrysene	14.040	228	652445	40.37	ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.371	149	507763	43.49	ppm	100
92)	Di-n-octylphthalate	15.808	149	881522	43.54	ppm	100
93)	Benzo[b]fluoranthene	16.262	252	672825	40.66	ppm	97
94)	Benzo[k]fluoranthene	16.316	252	669170	42.80	ppm	98
95)	Benzo[a]pyrene	16.887	252	636795	43.22	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.939	276	592380	45.13	ppm	100
98)	Dibenz[a,h]anthracene	19.003	278	572251	42.66	ppm	99
100)	Benzo[g,h,i]perylene	19.366	276	592659	43.66	ppm	99

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

7.6.139

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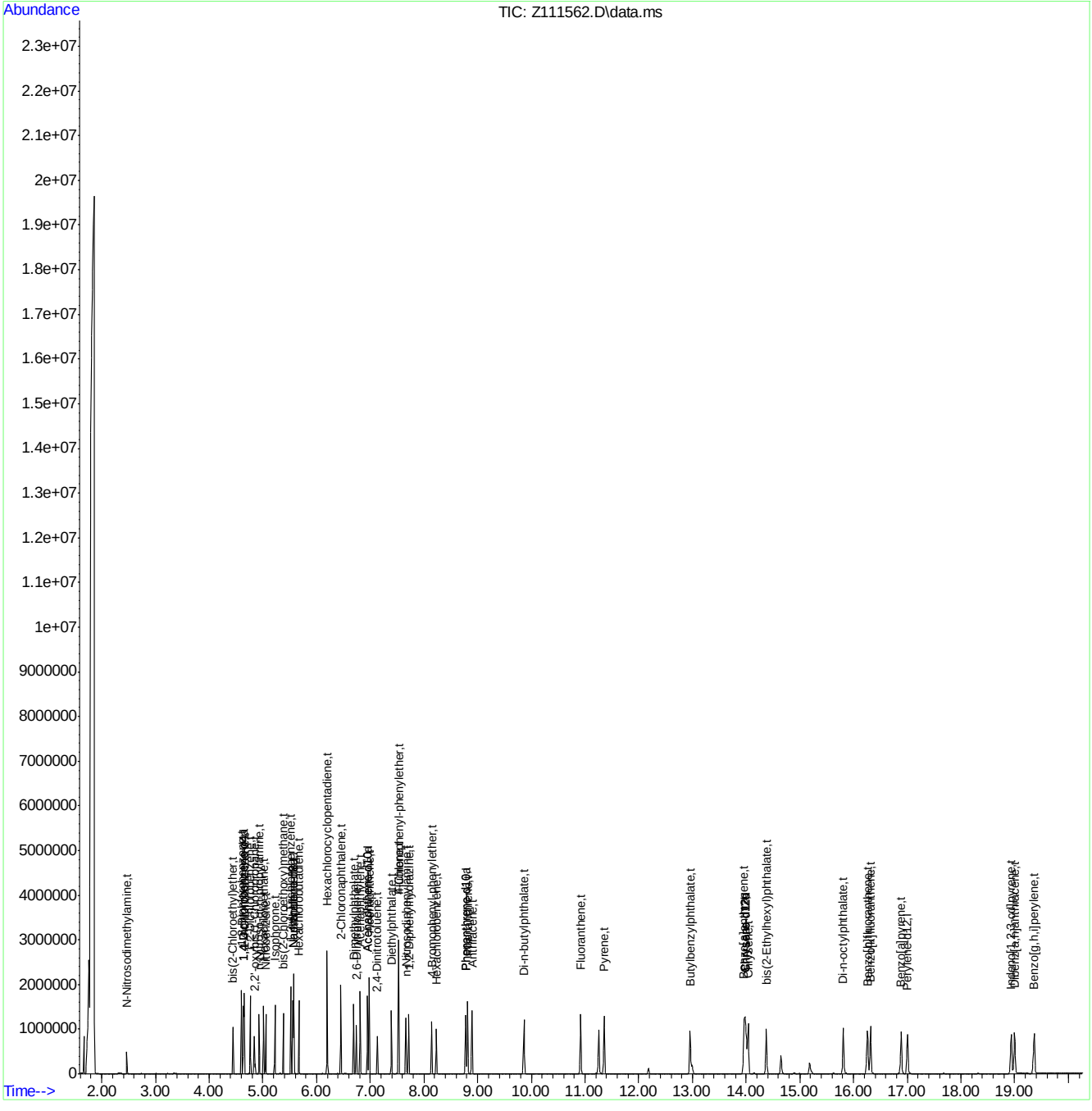
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:55:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:55:09 2016 RTE Page: 3

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562a.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5573-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:53:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.637	152	171765	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	628315	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	360539	40.00	ppm	0.00
69) Phenanthrene-d10	8.778	188	610746	40.00	ppm	-0.01
83) Chrysene-d12	13.986	240	547371	40.00	ppm	-0.01
91) Perylene-d12	17.005	264	493230	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.637	152	171765	40.00	ppm	0.00
103) Phenanthrene-d10a	8.778	188	610746	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	547371	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	360539	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	628315	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	547371	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	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%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
108) Benzidine	11.256	184	567370	91.33	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.197	216	233489	51.26	ppm	99

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

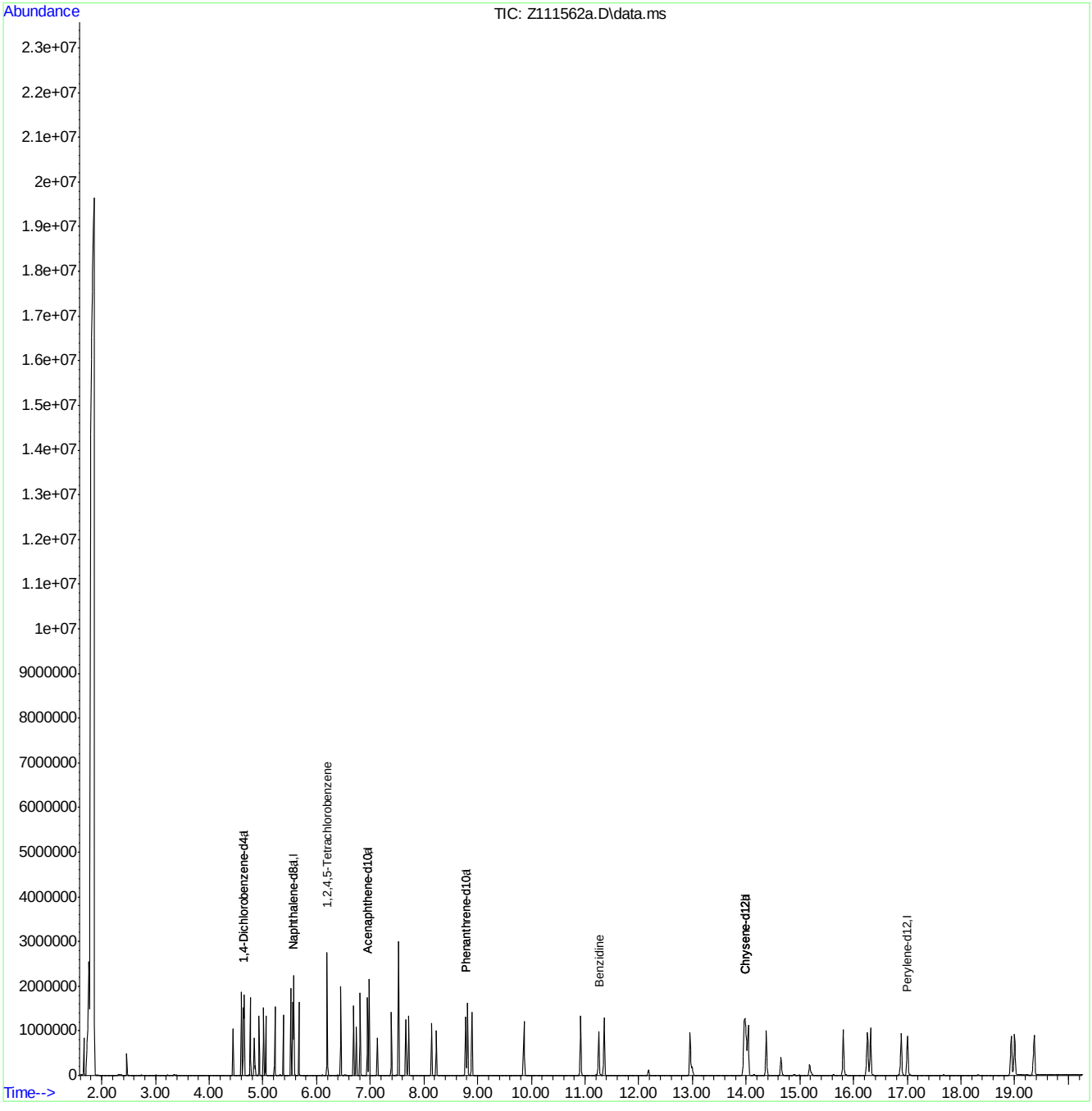
7.6.140

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562a.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5573-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:53:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:53:17 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:10:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.632	152	173751	40.00	ppm	-0.01
24) Naphthalene-d8	5.551	136	652521	40.00	ppm	-0.01
47) Acenaphthene-d10	6.940	164	368775	40.00	ppm	-0.02
69) Phenanthrene-d10	8.767	188	595233	40.00	ppm	-0.02
83) Chrysene-d12	13.960	240	584685	40.00	ppm	-0.04
91) Perylene-d12	16.983	264	501809	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.632	152	173751	40.00	ppm	-0.01
103) Phenanthrene-d10a	8.767	188	595233	40.00	ppm	-0.02
107) Chrysene-d12a	13.960	240	584685	40.00	ppm	-0.03
109) Acenaphthene-d10a	6.940	164	368775	40.00	ppm	-0.01
111) Naphthalene-d8a	5.551	136	652521	40.00	ppm	-0.01
113) Chrysene-d12b	13.960	240	584685	40.00	ppm	-0.03
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%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.175	88	117232	46.25	ppm	98
6) Indene	4.824	116	492119	47.89	ppm	99
7) Cumene	4.044	105	675594	44.65	ppm	97
13) Decane	4.525	43	245829	45.43	ppm	96
18) Acetophenone	4.921	105	377637	45.56	ppm	85
27) Quinoline	5.802	129	527486	42.72	ppm	99
40) 2,3-Dichloroaniline	6.278	161	240024	38.74	ppm	99
41) Caprolactam	5.834	55	99089	40.06	ppm	99
45) 1-Methylnaphthalene	6.139	141	442324	42.14	ppm	98
46) Dimethylnaphthalene	6.561	156	451768	41.93	ppm	100
53) Biphenyl	6.427	154	623096	44.47	ppm	100
82) Octadecane	8.687	57	317171	47.46	ppm	98
99) 7,12-Dimethylbenz(a)an...	16.262	256	348725	47.74	ppm	98

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

7.6.141

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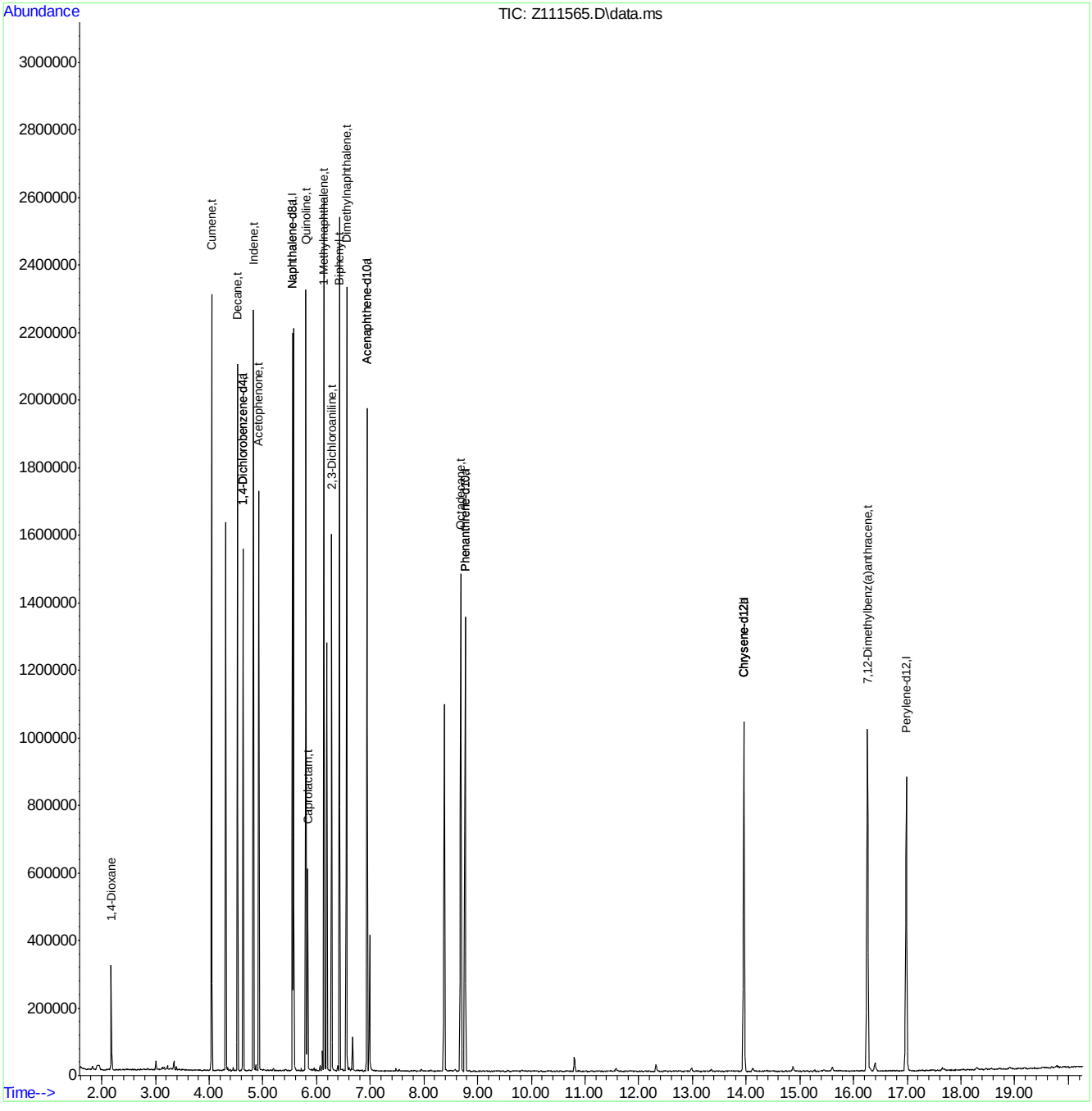
SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:10:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 10:10:11 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565a.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:07:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.632	152	173751	40.00	ppm	-0.01
24) Naphthalene-d8	5.551	136	652521	40.00	ppm	-0.01
47) Acenaphthene-d10	6.940	164	368775	40.00	ppm	-0.02
69) Phenanthrene-d10	8.767	188	595233	40.00	ppm	-0.02
83) Chrysene-d12	13.960	240	584685	40.00	ppm	-0.04
91) Perylene-d12	16.983	264	501809	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.632	152	173751	40.00	ppm	-0.01
103) Phenanthrene-d10a	8.767	188	595233	40.00	ppm	-0.02
107) Chrysene-d12a	13.960	240	584685	40.00	ppm	-0.03
109) Acenaphthene-d10a	6.940	164	368775	40.00	ppm	-0.01
111) Naphthalene-d8a	5.551	136	652521	40.00	ppm	-0.01
113) Chrysene-d12b	13.960	240	584685	40.00	ppm	-0.03
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%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.306	105	237488	53.75	ppm	98
106) Atrazine	8.382	215	77586	53.44	ppm	95

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

7.6.142

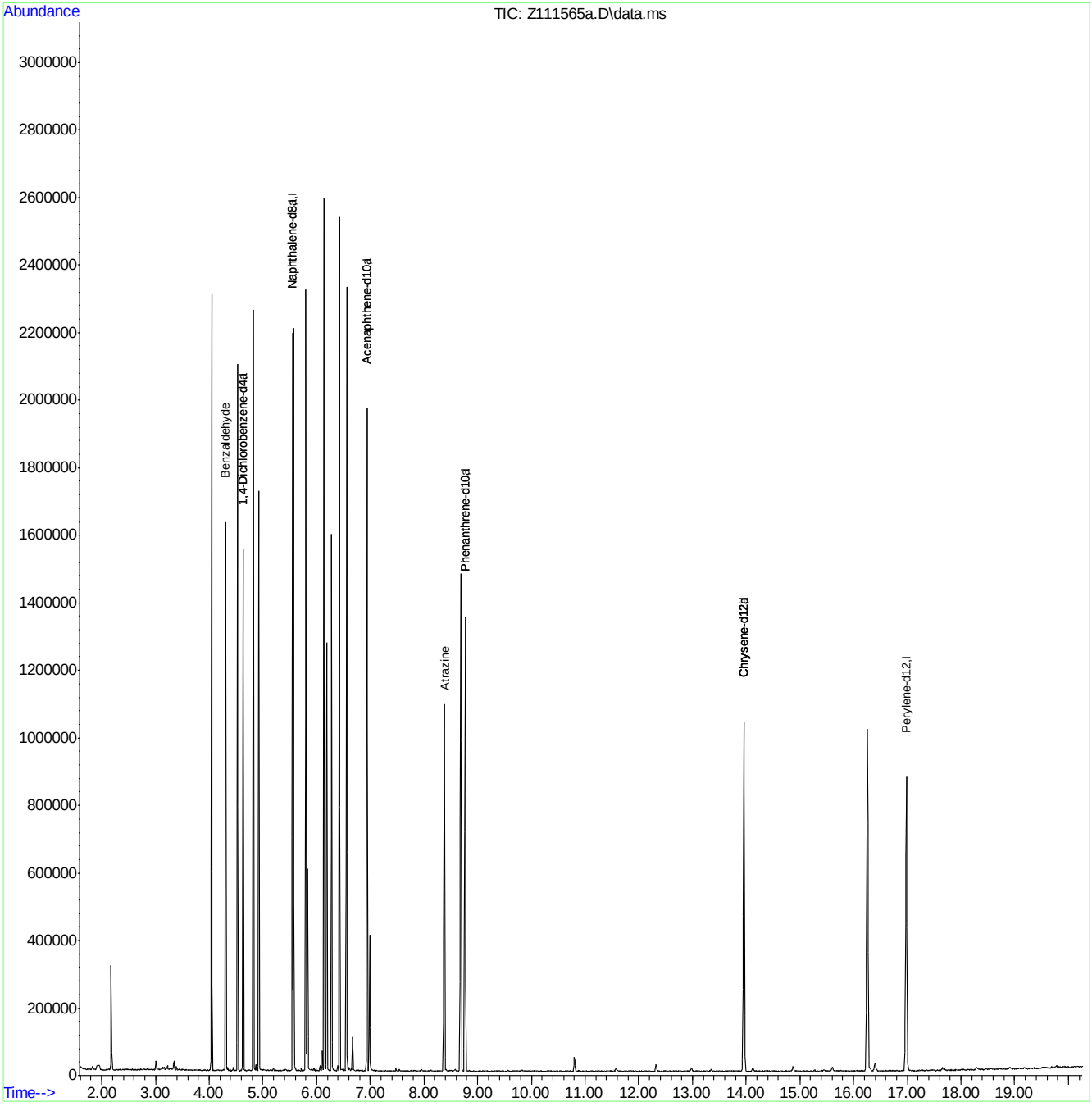
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565a.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:07:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 10:07:31 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111966.D
Acq On : 29 Jun 2016 11:55 am
Operator : ariellec
Sample : cc5571-25
Misc : op94978,ez5596
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 14:09:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.616	152	130567	40.00	ppm	0.05
24) Naphthalene-d8	5.540	136	518895	40.00	ppm	0.05
47) Acenaphthene-d10	6.924	164	288558	40.00	ppm	0.07
69) Phenanthrene-d10	8.767	188	479277	40.00	ppm	0.11
83) Chrysene-d12	13.997	240	485070	40.00	ppm	0.06
91) Perylene-d12	17.037	264	437451	40.00	ppm	0.06
101) 1,4-Dichlorobenzene-d4a	4.616	152	130567	40.00	ppm	0.03
103) Phenanthrene-d10a	8.767	188	479277	40.00	ppm	0.07
105) Chrysene-d12a	13.997	240	485070	40.00	ppm	0.06
107) Acenaphthene-d10a	6.924	164	288558	40.00	ppm	0.07
109) Naphthalene-d8a	5.540	136	518895	40.00	ppm	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.654	112	114995	25.48	ppm	0.07
Spiked Amount 50.000			Recovery = 50.96%			
8) Phenol-d5	4.381	99	149592	26.20	ppm	0.08
Spiked Amount 50.000			Recovery = 52.40%			
25) Nitrobenzene-d5	5.017	82	129323	26.35	ppm	0.04
Spiked Amount 50.000			Recovery = 52.70%			
51) 2-Fluorobiphenyl	6.325	172	212150	22.75	ppm	0.06
Spiked Amount 50.000			Recovery = 45.50%			
73) 2,4,6-Tribromophenol	7.800	330	23348	21.93	ppm	0.10
Spiked Amount 50.000			Recovery = 43.86%			
85) Terphenyl-d14	11.775	244	217732	20.73	ppm	0.03
Spiked Amount 50.000			Recovery = 41.46%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.137	88	59564	31.27	ppm	97
3) Pyridine	2.479	79	148834	28.58	ppm	97
4) N-Nitrosodimethylamine	2.436	74	86186	29.53	ppm	84
6) Indene	4.803	116	203937	26.41	ppm	99
7) Cumene	4.023	105	298425	26.25	ppm	99
9) Phenol	4.392	94	179706	28.98	ppm	92
10) Aniline	4.376	93	194168	28.42	ppm	68
11) bis(2-Chloroethyl)ether	4.418	93	107263	26.44	ppm	97
12) 2-Chlorophenol	4.472	128	125336	26.13	ppm	96
13) Decane	4.498	43	108793	26.76	ppm	99
14) 1,3-Dichlorobenzene	4.573	146	126068	23.95	ppm	96
15) 1,4-Dichlorobenzene	4.627	146	124617	23.76	ppm	95
16) Benzyl alcohol	4.723	108	76996	26.55	ppm	99
17) 1,2-Dichlorobenzene	4.739	146	116831	24.19	ppm	94
18) Acetophenone	4.910	105	162574	26.10	ppm #	74
19) 2-Methylphenol	4.819	108	105107	26.00	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.814	121	33360	25.27	ppm #	87
21) 3&4-Methylphenol	4.931	108	114400	27.03	ppm	98
22) n-Nitroso-di-n-propyla...	4.910	70	90902	27.00	ppm	96
23) Hexachloroethane	4.985	201	37870	21.52	ppm	99
26) Nitrobenzene	5.033	77	125055	24.65	ppm	96
27) Quinoline	5.791	129	234989	23.93	ppm	99

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111966.D
Acq On : 29 Jun 2016 11:55 am
Operator : ariellec
Sample : cc5571-25
Misc : op94978,ez5596
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 14:09:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.204	82	228739	24.49	ppm		98
29) 2-Nitrophenol	5.262	139	68080	29.36	ppm		86
30) 2,4-Dimethylphenol	5.305	107	123343	26.87	ppm		98
31) Benzoic Acid	5.385	105	73675	24.83	ppm		94
32) bis(2-Chloroethoxy)met...	5.353	93	131316	24.83	ppm		97
33) 2,4-Dichlorophenol	5.449	162	93085	23.12	ppm		95
34) 2,6-Dichlorophenol	5.604	162	89409	23.81	ppm		100
35) 1,3,5-Trichlorobenzene	5.273	180	101366	21.87	ppm		95
36) 1,2,4-Trichlorobenzene	5.497	180	94233	21.45	ppm		99
37) 1,2,3-Trichlorobenzene	5.658	180	91410	21.52	ppm		99
38) Naphthalene	5.551	128	322690	23.36	ppm		99
39) 4-Chloroaniline	5.594	127	141594	23.89	ppm		97
40) 2,3-Dichloroaniline	6.267	161	111518	22.63	ppm		99
41) Caprolactam	5.845	55	48109	24.72	ppm		99
42) Hexachlorobutadiene	5.636	225	47910	19.65	ppm		96
43) 4-Chloro-3-methylphenol	5.952	107	108836	25.66	ppm		88
44) 2-Methylnaphthalene	6.048	141	184467	22.90	ppm		99
45) 1-Methylnaphthalene	6.122	141	192694	23.08	ppm		99
46) Dimethylnaphthalene	6.545	156	194688	22.72	ppm		99
48) Hexachlorocyclopentadiene	6.165	237	85264	34.23	ppm		100
49) 2,4,6-Trichlorophenol	6.272	196	62933	23.73	ppm		98
50) 2,4,5-Trichlorophenol	6.315	196	65003	23.15	ppm		100
52) 2-Chloronaphthalene	6.432	162	197315	23.39	ppm		96
53) Biphenyl	6.406	154	265191	24.19	ppm		97
54) 2-Nitroaniline	6.512	65	70027	30.83	ppm		82
55) Dimethylphthalate	6.662	163	225862	23.23	ppm		99
56) Acenaphthylene	6.790	152	331354	23.71	ppm		100
57) 2,6-Dinitrotoluene	6.721	165	50486	28.27	ppm		95
58) 3-Nitroaniline	6.886	138	60848	27.71	ppm		100
59) Acenaphthene	6.956	153	205917	24.53	ppm		96
60) 2,4-Dinitrophenol	6.999	184	34363	43.30	ppm	#	81
61) 4-Nitrophenol	7.084	109	32001	26.27	ppm	#	71
62) Dibenzofuran	7.127	168	273333	22.98	ppm		99
63) 2,4-Dinitrotoluene	7.122	165	72045	26.43	ppm		66
64) 2,3,4,6-Tetrachlorophenol	7.276	232	49944	21.53	ppm		98
65) Diethylphthalate	7.367	149	232469	23.54	ppm		99
66) Fluorene	7.506	166	228825	23.82	ppm		98
67) 4-Chlorophenyl-phenyle...	7.495	204	99667	22.10	ppm		93
68) 4-Nitroaniline	7.533	138	56706	25.25	ppm		98
70) 4,6-Dinitro-2-methylph...	7.586	198	32728	24.37	ppm		98
71) n-Nitrosodiphenylamine	7.640	169	155073	23.45	ppm		98
72) 1,2-Diphenylhydrazine	7.688	77	253723	26.03	ppm		94
74) 4-Bromophenyl-phenylether	8.115	248	54582	20.80	ppm		95
75) Hexachlorobenzene	8.217	284	57260	20.96	ppm		89
76) Pentachlorophenol	8.510	266	57553	34.57	ppm		98
77) Phenanthrene	8.799	178	320785	24.00	ppm		99
78) Anthracene	8.879	178	326910	23.86	ppm		100
79) Carbazole	9.157	167	314686	23.67	ppm		99
80) Di-n-butylphthalate	9.830	149	411536	25.21	ppm		99
81) Fluoranthene	10.920	202	344770	22.99	ppm		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111966.D
Acq On : 29 Jun 2016 11:55 am
Operator : ariellec
Sample : cc5571-25
Misc : op94978,ez5596
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 14:09:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	8.655	57	155810	28.95 ppm	98
84) Pyrene	11.358	202	362424	21.63 ppm	89
86) Butylbenzylphthalate	12.934	149	194529	25.49 ppm	97
87) Benzo[a]anthracene	13.976	228	355688	23.43 ppm	98
88) 3,3'-Dichlorobenzidine	14.008	252	120692	22.08 ppm	95
89) Chrysene	14.050	228	342360	23.90 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.339	149	283632	27.42 ppm	98
92) Di-n-octylphthalate	15.776	149	493054	27.46 ppm	100
93) Benzo[b]fluoranthene	16.289	252	343819	23.37 ppm	88
94) Benzo[k]fluoranthene	16.342	252	330824	23.86 ppm	95
95) Benzo[a]pyrene	16.919	252	312224	23.89 ppm	96
96) Indeno[1,2,3-cd]pyrene	18.981	276	281874	24.22 ppm	95
97) Dibenz(a,h)acridine	18.613	279	270800	24.84 ppm	97
98) Dibenz[a,h]anthracene	19.035	278	290306	24.40 ppm	97
99) 7,12-Dimethylbenz(a)an...	16.294	256	165672	26.02 ppm	98
100) Benzo[g,h,i]perylene	19.409	276	296025	24.59 ppm	93

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

7.6.143

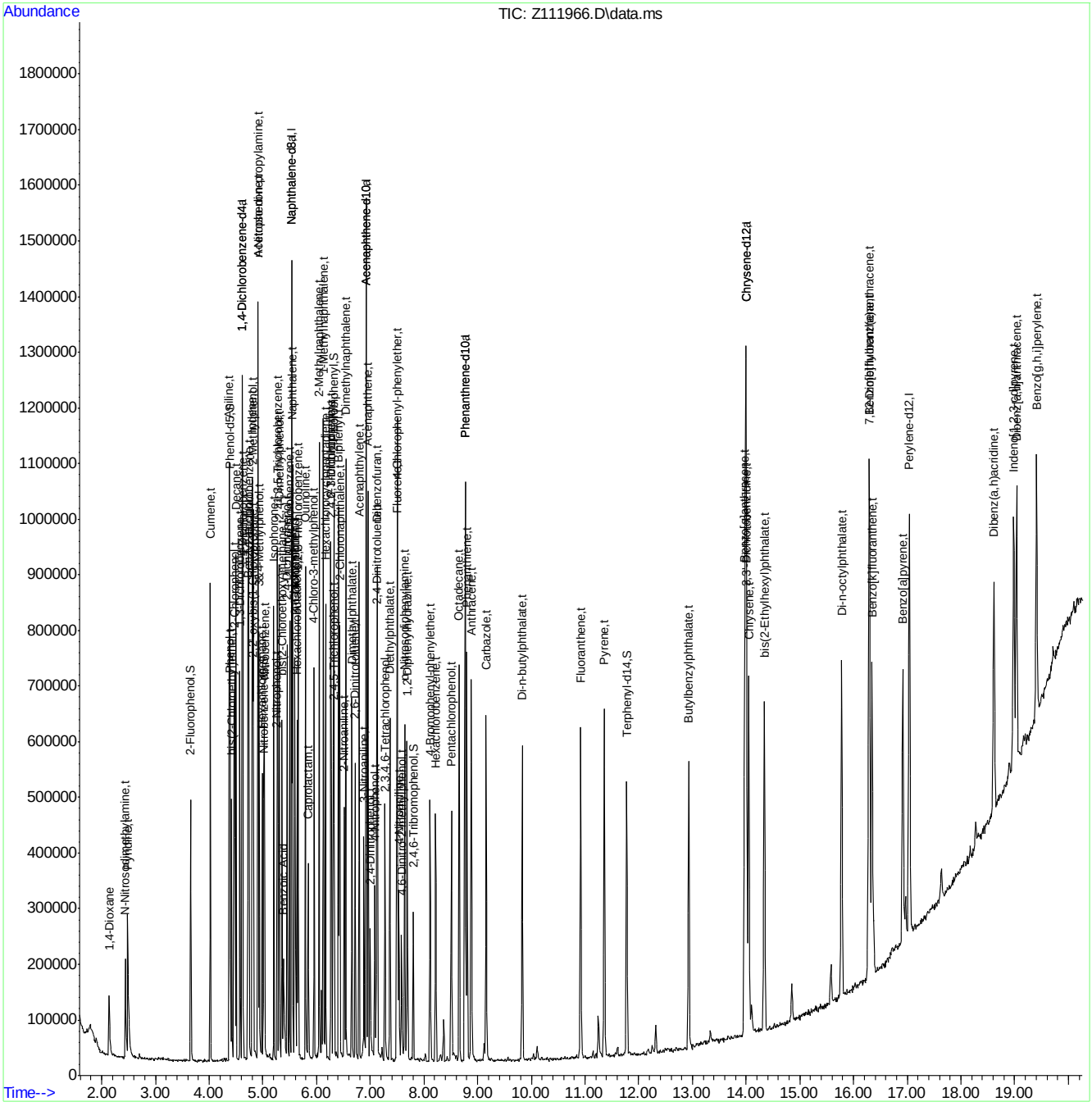
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111966.D
Acq On : 29 Jun 2016 11:55 am
Operator : ariellec
Sample : cc5571-25
Misc : op94978,ez5596
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 14:09:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 29 14:09:31 2016 RTE

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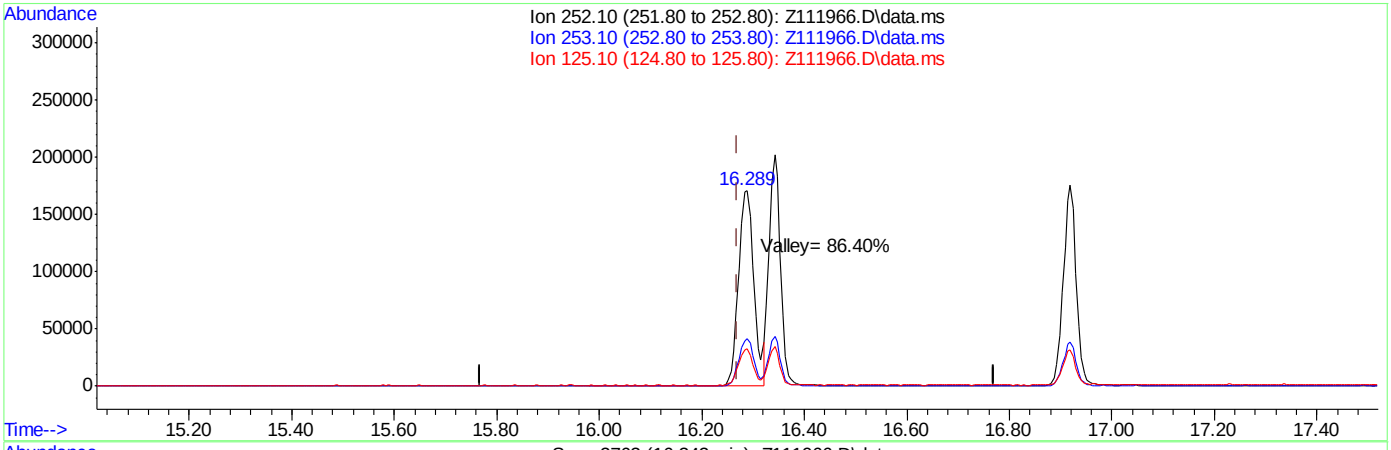
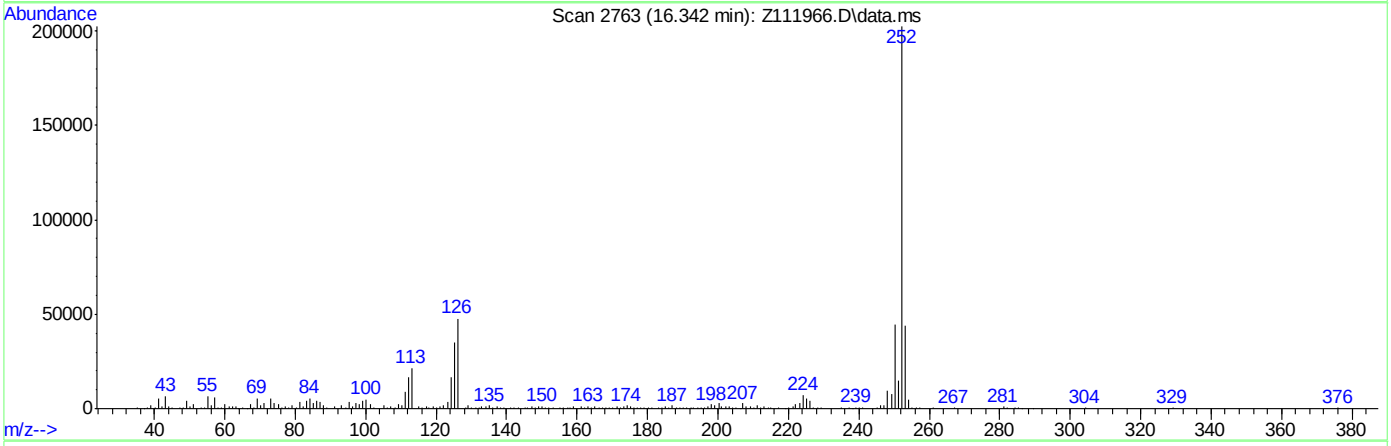
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111966.D
Acq On : 29 Jun 2016 11:55 am
Operator : ariellec
Sample : cc5571-25
Misc : op94978,ez5596
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 29 12:15:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration





TIC: Z111966.D\data.ms

(94) Benzo[k]fluoranthene (t)

16.342min (+0.072) 23.86ppm

response 330824

Ion	Exp%	Act%
252.10	100	100
253.10	21.50	21.30
125.10	12.00	16.68
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111967.D
Acq On : 29 Jun 2016 12:25 pm
Operator : ariellec
Sample : cc5573-25
Misc : op94978,ez5596
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 14:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.616	152	173959	40.00	ppm	0.05
24) Naphthalene-d8	5.535	136	685845	40.00	ppm	0.05
47) Acenaphthene-d10	6.924	164	380178	40.00	ppm	0.07
69) Phenanthrene-d10	8.762	188	636001	40.00	ppm	0.11
83) Chrysene-d12	13.992	240	679277	40.00	ppm	0.06
91) Perylene-d12	17.037	264	601962	40.00	ppm	0.06
101) 1,4-Dichlorobenzene-d4a	4.616	152	173959	40.00	ppm	0.03
103) Phenanthrene-d10a	8.762	188	636001	40.00	ppm	0.06
105) Chrysene-d12a	13.992	240	679277	40.00	ppm	0.06
107) Acenaphthene-d10a	6.924	164	380178	40.00	ppm	0.07
109) Naphthalene-d8a	5.535	136	685845	40.00	ppm	0.05
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	4.290	105	121398	27.44	ppm	96
104) Atrazine	8.372	215	40236	25.94	ppm	95
106) Benzidine	11.246	184	150532	19.53	ppm	98
108) 1,2,4,5-Tetrachloroben...	6.176	216	112455	23.41	ppm	98
110) Hydroquinone	5.840	110	158480	34.08	ppm	98

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

7.6.144

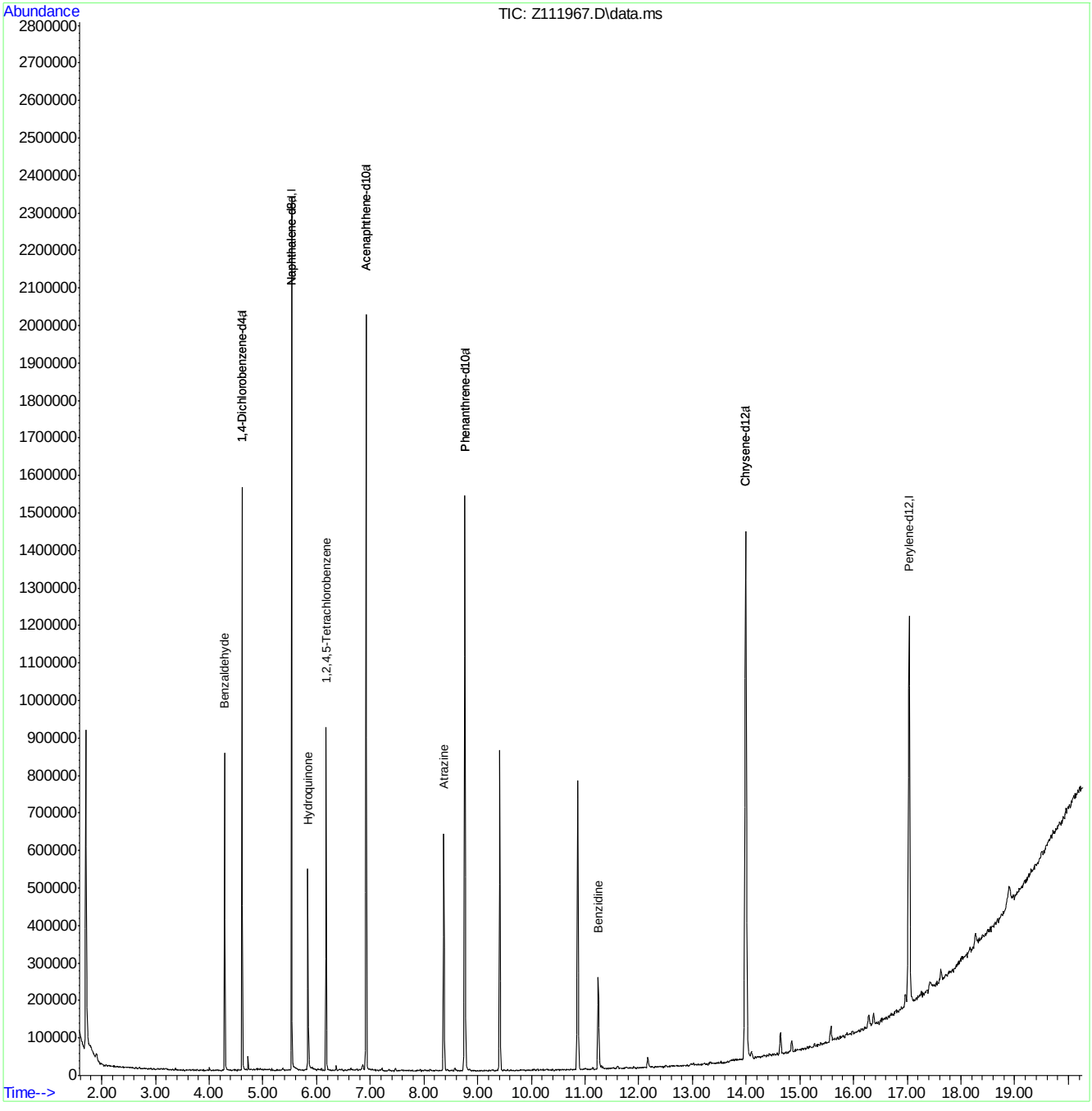
7

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5596\
Data File : Z111967.D
Acq On : 29 Jun 2016 12:25 pm
Operator : ariellec
Sample : cc5573-25
Misc : op94978,ez5596
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 29 14:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 29 10:30:53 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 29 14:10:16 2016 RTE

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SGS ACCUTEST JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3720

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 6-7-2016

Columns: ZB5ms 30mx25mmx25μm

Method 8270D/625

Initial Cal. Method M2M3713 20 ANVS

Injection Volume: 1μl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	dftpp	50ppm
CM5732	Internal Std	4000ppm
162800	dcm (Fisher)	—

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: AMB

Date: 6/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M84431	dftpp			W	1					Not Scan	raised baseline reinstall
	84432	dftpp				1					OK	9:17AM
	84433	ic 3770-2		BMA		2					OK	SV161935-63H
	84434	ic3770-1				3					OK	-63I
	84435	ic3770-100				4					OK	-63A
	84436	ic3770-80				5					OK	-63B
	84437	ic 3770-50				6					OK	-63C
	84438	ic 3770-25				7					OK	-63D
	84439	ic3770-10				8					OK	-63E
	84440	ic3770-5				9					OK	-63G
	84441	icv 3770-50		Acids		10					OK	SV161935-21
	84442	icv 3770-50		Anilines		11					OK	-20
	84443	icv3770-50		ABN SVOC		12					OK	OP167121-136
	84444	icv 3770-50		BN1		13					OK	NO 3:30CB SV161935-17
	84445	icv3770-50		BN2		14					RR	run diff. 107 # -69
	84446	icv 3770-50		BN2D 3rd		15					OK	use for 3:30CB -14B
	84447	icv3770-50		BN2		16					RR	SV151829-116 3:42

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 E2M3721

Print Analyst Name: Ashley N.

Analyst Signature: AM

Date: 6-7-16

Columns: 70m @ 30m x 3mm x .25µM

Method 8270D 1625

Initial Cal. Method M2M3720.D

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161027-91	dftpp	50ppm
CM5732	Internal Std	4000ppm
162800	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: 6/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M84448	dftpp			W	1					NG	PCP↑ reinject
	84449	dftpp				1					OK	6:05pm
	84450	ICV3720-50		BN2		2					OK	SV161935-116

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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Rev. Date: 1/19/16

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7.7.2

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E2M3754

Print Analyst Name: Ashley N.

Analyst Signature: AN

Date: 6-28-16

Columns: ZB5ms (P) 30m x 25mm x 25

Method 8270D/625

Initial Cal. Method M2M3770

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 1187791	dftpp	50ppm
161935-938	BNA	20ppm
-324	TCL42	↓
OM5732	Internal STD	4000ppm
163039	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: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	2M85103	dftpp			W	1					NG	PCP↑ 68↑ reinject
	85104	dftpp			W	1					↓	PCP↑ retune
	85105	dftpp			W	1					NG	68↑ PCP↑ reinstall
	85106	DFTPP			W	1					not sing	68↑ retune.
	85107	DFTPP			W	1					OK	952AM.
	85108	CC3770-25		BNA	W	2					OK	81↓ 48↓ 54↓ 60, 61↓ 68, 70
	85109	OP94957-MB2	94952-2	SPLP 8270	W	3					OK	
	85110	-LB13				4					OK	
	85111	-LB17				5					OK	
	85112	-BS2		↓		6					OK	
	85113	JC22153-5R		SPLP XH		7					OK	RR1:5
	85114	-6R				8					OK	
	85115	JC22470-5R		SPLP NAPT		9					OK	
	85116	-6R		↓ 2MMP		10					OK	RR1:5
R	85117	-6R				11	5				OK	
R	85118	JC22153-5R		SPLP4H		12	5				OK	
	~~85119~~ 85119	OP94823A MB	94823A	AB8270	W	13					OK	Ran @ end of sequence! 6:30PM

AN 6/28/16 (4)

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 E2M3754

Print Analyst Name: Ashley N

Analyst Signature: AN

Date: 6-26-16

Columns: 2B5m 30mx.25mm x.25µm

Method 8270D/625

Initial Cal. Method M2M3770

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 33	

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: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	2M85120	JC22163-13	~~94623A~~ ~~9445~~ ~~AN 6/28/16~~	SIM14DIOX	W	14			✓	✓	OK	no 14DIOX. RR(M)
	85121	OP94854-MB1	94659A-1	PB8270	W	15			✓	✓	OK	
	85122	JC22270-1		SIM14DIOX		16			✓	✓	OK	
	85123	-4				17			✓	✓	OK	
	85124	OP95018-MB1	95018A	PB8270	W	18			✓	✓	OK	
	85125	JC22457-4		SIM14DIOX		19			✓	✓	OK	
R	85126	JC22117-4 1x		PB8270		20	2				did not run	not in sequence.

SB

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 E3M2942

Print Analyst Name: Ashley Mayo

Analyst Signature: AMO

Date: 6/20/2016

Columns: RVI(G)1030m x 0.5mm x 0.5µm

Method 8270D/625

Initial Cal. Method 113M2942Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.
		AMO 6/20/16

Standard Data

Lot #	Description	Conc.
SV518879	DFTPP	50ng
SV160935	8MTSTD	40ng
16248	DCMAFSTD	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62370	DFTPP				1					OK	623PM
	62371	ICV2942-.2		BNAsim	W	2					OK	SV160935-60C
	62372	-.1				3					OK	-60D
	62373	-1.0				4					OK	-84A
	62374	-.5				5					OK	-84B
	62375	-.05				6					RR	SV160935-60E Peaking action
	62376	-.02				7					OK	SV160935-60F
	62377	-.01				8					OK	-60G
	62378	-.5				9					OK	-60A
	62379	-2.5				10					OK	-60B
	62380	-.05				11					OK	-60E
	62381	ICV2942-1.0		BSim2nd	W	12					RR	OP16072012
	62382	-1.0		Acid2nd	W	13					OK	SV160935-66 12:50AM
												AMO

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 E3M2943

Print Analyst Name: LMSELK

Date: 6/21/16

Analyst Signature: [illegible]

Columns: Rxi-5sil MS 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method M3M2942SIM

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SI1502491	DFTPP	50ppm
SI1602580	SIM ISTD	40ppm
162039	DCM EFCHON	—

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: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M022383	DFTPP			W	1					OK	9:00AM
	1022384	1012942-1.0		BSIM208	W	2					OK	9:20AM

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 E3M2954

Print Analyst Name: Linsey K

Analyst Signature: [illegible]

Date: 6/28/16

Columns: Rxi-5sil MS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M3m2942sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1582791	DFTPP	50ppm
SV1602585-90	SimStd.	0.5ppm
-90	SimStd	400ppm
1602351	Dim-Cl(sher)	—

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: AMR

Date: 6/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m102577	DFTPP			W	1					ok	442 reinject
	602578	DFTPP			W	1					↓	442 reinject
	602579	DFTPP			W	1					ok	9:46AM
	602580	CC2942-0.5		Bnasim	W	2						blk resumen ↓ reinject
	602581	DFTPP			W	1					ok	11:21AM
	602582	CC2942-0.5		Bnasim	W	2					ok	Bnaryl
	602583	JC22163-3	948231	1,4dcb	W	3			/	/	ok	
	602584	JC22451-21	949941	1,4dcb	W	4			/	/	ok	
	602585	QC948591-mb1	948591	BS270		5			/	/	ok	1,4dcb in mb1
	602586	JC22785-2		1,4dcb		6			/	/	ok	Sent to rx
	602587	-3				7			/	/	ok	Sent to rx
	602588	-11				8			/	/	ok	
	602589	-10				9			/	/	ok	nn by 8270!
	602590	-8				10			/	/	ok	
	602591	-9				11			/	/	ok	
	602592	QC948596-mb1	948596	BS270	W	12			/	/	ok	
	602593	-8512				13			/	/	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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SGS ACCUTEST JC22206

7.7.6 7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2954

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 6/28/16

Columns: Rtx-5silms 30mx.25mmx.25um

Method: 8270D 1625

Initial Cal. Method: M3M2412sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Pg 85	

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: 6/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3m02594	OP94206ms	GRS8201	B8270	W	14			/	/	OK	
	02595	-msd				15			/	/	OK	
	02596	JC22462-1		B8270MNJ +1,4dioxane		16			/	/	OK	
	02597	-2				17			/	/	OK	
	02598	-3				18			/	/	OK	
	02599	-4				19			/	/	OK	
	02600	-5				20			/	/	OK	
	02601	-6				21			/	/	OK	
	02602	JC22571		B8270MNJ +1,4dioxane		22			/	/	OK	11:06pm

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 E4M2974

Print Analyst Name: Ashley Mdyp

Date: 6/20/2016

Analyst Signature: AMO

Columns: ZB5ms 30m x 5mm x 5 µ

Method 8270D/625

Initial Cal. Method M4M2973 4 5ug

Injection Volume: 1µL AMO 6/20/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15827911	DFTPP	50ppm
SV16935580	Sim std. JSTD 6/20/16	400ppm
K0324	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: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66179	DFTPP				1					OK	1066PM
	66180	ICV2974-1		BMSim	W	2					na	using fix windows Rerun
	66181	~~-.2~~	.1			~~3~~ 2					OK	SV16935-60D
	66182	~~-.5~~	.2			~~4~~ 3					OK	-60C JK 6/21/16
	66183	~~-1.0~~	.5			~~5~~ 4					OK	~~-60~~ -84B
	66184	~~-.05~~	1.0			~~6~~ 5					OK	-84A
	66185	~~-.02~~	.05			~~7~~ 6					OK	-60E
	66186	~~-.01~~	.02			~~8~~ 7					OK	-60F
	66187	~~-.5~~	.01			~~9~~ 8					OK	-60G
	66188	AMO ~~-2.5~~	5			~~10~~ 9	AMO 6/20/16 ④				OK	-60A
	66189	6/20/16 ④ ~~-2.5~~				10					OK	-60B
	66190	ICV2974-1.0		BSim2nd	W	11					OK	OP16177U6
	66191	1.0		Acid2nd	W	12					OK	SV16935764.00AM

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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7.2.7

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2978

Print Analyst Name: Linsey K

Analyst Signature: [signature]

e: 6/22/16

Columns: ZB-5ms 30m x .25mm x .25µm

Method 8270D/1625

Initial Cal. Method M4M2974sim

Injection Volume: 1µl

Standard Data

ot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
5116827-91	DFTPP	50ppm
5116C135-84	SIMSTD	0.5ppm
-50	SIMJSTD	40ppm
1603251	DCM Flushed	—

nually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply h the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/23/16

Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
4M160258	DFTPP			W	1					OK	2:38pm
160259	CC2974-0.5		BNsim	W	2					OK	
160260	OP94977-MB	949771	AB8270	W	3			✓	✓	OK	
160261	-bs12				4			✓	✓	OK	
160262	-bs12				5			✓	✓	OK	
160263	JC20724-2		AB8270MS +1,4dox		6			✓	✓	OK	
160264	-3				7			✓	✓	OK	
160265	-8				8			✓	✓	OK	
160266	-9				9			✓	✓	OK	
160267	-10				10			✓	✓	OK	
160268	-11				11			✓	✓	OK	
160269	-12				12			✓	✓	OK	
160270	JC21847-1	946901	AB8270MS +1,4dox	W	13			✓		RR	CCT
160271	-5				14			✓		RR	CCT
160272	OP94835-MB	948351	AB8270		15			✓	✓	OK	
160273	-bs12				16			✓	✓	OK	
160274	JC22152-1		AB8270MS		17			✓	✓	OK	

TX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

ll strikeouts must be initialed, dated, and reason applied if not transcription error
ample volume/weight used and final volumes refer to extraction log.

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ev. Date: 1/19/16

7.7.8

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2978

Print Analyst Name: Linsey K

Date: 6/22/16

Analyst Signature: LK

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	Sep pg 179	

Columns: ZB-5MS 30m x .25mm x .25um

Method 8270D 1625

Initial Cal. Method M4M2974sim

Injection Volume: 2uL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-23-16

Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
4m060275	JC22152-2	9148361	ABSMNT	W	18			✓	✓	OK	
060276	-3				19			✓	✓	OK	
060277	-4				20			✓	✓	OK	
060278	JC222461				21			✓	✓	OK	
060279	-2				22			✓	✓	OK	
060280	ECC297405		Brown		23					OK	144AM

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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7.7.8

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2978

Print Analyst Name: Linsey

Analyst Signature: [illegible]

Date: 6/22/16

Columns: ZB-5ms 60m x .25mm x .25µm

Method 8270D/1625

Initial Cal. Method M4M2974 sim

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
5M16U2791	DFTPP	50ppm
5M16U2584	SIMSTD	0.5ppm
80	SIM ISTD	40ppm
1602025	DCM Extracted	—

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 6/23/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M160258	DFTPP			W	1					OK	2:38pm
	160259	CC2974-0.5		BNesim	W	2					OK	
	160260	OP94977-MB1	946771	AB8270	W	3			✓		OK	
	160261	-BS12				4			✓	✓	OK	
	160262	-BSD12				5			✓	✓	OK	
	160263	JC20724-2		ABSIMNS +1,4dox		6			✓	✓	OK	
	160264	-3				7			✓	✓	OK	
	160265	-8				8			✓	✓	OK	
	160266	-9				9			✓	✓	OK	
	160267	-10				10			✓	✓	OK	
	160268	-11				11			✓	✓	OK	
	160269	-12				12			✓	✓	OK	
R	160270	JC21847-1	946901	ABSIMNS +1,4dox	W	13			✓		RR	CCT
R	160271	-5				14			✓		RR	CCT
	160272	OP94835-MB1	948351	AB8270		15			✓	✓	OK	
	160273	-BS12				16			✓	✓	OK	
	160274	JC22152-1		ABSIMNS		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
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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2978

Print Analyst Name: Linsey K

Analyst Signature: hk

Date: 6/22/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sep 179	

Columns: ZB-5MS 30m x .25mm x 1.50um

Method 8270D 1625

Initial Cal. Method M4M2974sim

Injection Volume: 1uL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date 6/23/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4m60275	JC22152-2	G148351	ABSMMD	W	18			✓	✓	OK	
	60276	-3				19			✓	✓	OK	
	60277	-4				20			✓	✓	OK	
	60278	JC22246-1				21			✓	✓	OK	
	60279	-2				22			✓	✓	OK	
	60280	ECC2974-05		Bnaim		23					OK	1:44AM

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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7.7.8

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2984

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/28/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50ppm
SV161935-90A	SIM STD	1.0ppm
-$8	SIM IS	100ppm
163534	DCM	—

Columns: ZB5ms 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M4M2974SIM

Injection Volume: 1ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JN

Date: 6-29-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M66437	DFTPP				1					OK	9:23pm
	66438A	IC 2974-1.0				2					OK	Ran as "A" file due to sampling error. 7/1/16
	66439	OP95138a-MB	95138	B8270		3			/	/	OK	
	66440	-BS1				4			/	/	OK	
	66441	-MS				5					nr	nr under passing ce
	66442	-MSD				6					nr	
	66443	JC22865-1		BSIM1ADIOX		7			/	/	OK	run by 8270.
	66444	-2				8			/	/	OK	
	66445	-3				9			/	/	OK	
	66446	-4				10			/	/	OK	
	66447	-5				11			/	/	OK	run by 8270.
	66448	-6				12			/	/	OK	
	66449	-7				13			/	/	OK	
	66450	JC22802-11				14			/	/	OK	
	66451	-12				15			/	/	OK	
	66452	-13				16			/	/	OK	
	66453	-14				17			/	/	OK	7:23AM

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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7.7.9

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M2986

Print Analyst Name: Linsey K

Analyst Signature: [illegible]

Date: 6/28/16

Columns: 7B-5MS 30m x .25mm x .25um

Method: 8270D/625

Initial Cal. Method: M4M2974sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV160925-90	SIMSTD	0.5ppm
-80	SIM ISTD	40ppm
160039	DCM Extraction	—

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: 6-29-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M00465	DFTPP			W	1					OK	8:36AM
	00426	CC2974-0.5		BNsim	W	2					OK	HCBA
	00407	OP94835-MS	94835-1	A8270	W	3			/	/	OK	
	00408	-MSD				4			/	/	OK	
	00409	OP94814-MS	94814-1	A8270		5			/	/	OK	
	00410	-BS2				6			/	/	OK	nr for 14dioxane
	00411A	JC22141-1		BSIMNS 1,4dioxane		7			/	/	OK	nrco Aflle from inlet heavy
	00412	-2				8					Not using	nr w/ passing bs12
	00413	JC22139-1		A8SIMNS 1,4dioxane		9					↓	↓
	00414	-2				10					not ran	nrw/ passing bs12
	00415	-3				11						
	00416	-4				12						
	00417	OP94814-MS		A8270		13						
	00418	-MSD				14					↓	↓
	00419	JC22270-5	94839-1	1,4dioxane		15			/	/	OK	nrnb/8270!
	00420	-6				16			/	/	OK	Sent to rx
	00421	-7				17			/	/	OK	5:51pm sent to rx

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 E4M2986 *16 JL 6286

Print Analyst Name: Linsey

Analyst Signature: [illegible]

Date: 6/28/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg 7	

Columns: ZB-5MS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M4M2974Sim

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: [illegible]

Date: 6-29-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M160422	JC22270-8	948591	1,4dioxane	W	18					not ran	ran on 3m
	160423	-9				19					↓	↓
	160424	-10				20					not ran	ran on 3m
	160425	-11				21					not ran	ran on 3m
	160426	JC22206-1	948351	Nap + 1,4dioxane	W	22					not ran	See changed
	160427	-2				23					↓	↓
	160428	-3				24					↓	↓
	160429	OP95546-MS2	951401	AB8270	W	25			/	/	ok	ran After 160411
	160430	-MS1				26			/	/	ok	↓
	160431	JC22251-1		AB8270 + 1,4dioxane		27			/		ok	ok
	160432	OP94602-MS1	949601	AB8270		28					not ran	System Shutdown
	160433	JC22251-3		AB8270 + 1,4dioxane		29					↓	↓
	160434	OP94994-MS1	949941	AB8270	W	30					↓	↓
	160435	JC22251-19		AB8270 + 1,4dioxane		31					↓	↓
	160436	-22				32					↓	↓

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 E4M2988

Print Analyst Name: Linsey K

Analyst Signature: LK

Date: 6/29/16

Columns: 25.5m @ 35m x .25mm x .25um

Method 8270D 1625

Initial Cal. Method M4M2948sim

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1512791	DFTPP	50ppm
SV160435-90	SIM Std.	2.5ppm
-80	SIM ISTD	40ppm
160534	DCM Cleaner	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature]

Date: 6-29-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4m160451	DFTPP			W	1					OK	8:26AM
	160455	CC2944-05		Brasim	W	2					OK	
	160456	JC22206-1	948351	NAP+1,4dioxane	W	3			/	/	OK	
	160457	-2				4			/	/	OK	
	160458	-3				5			/	/	OK	10:14AM

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 JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M2989

Print Analyst Name: LINSEY K

Analyst Signature: LK

Date: 6/29/16

Columns: DB-5MS 30m x 25mm x 25um

Method: 8270D/625

Initial Cal. Method: M4M2974SIM

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM1527-11	DFTPP	50ppm
SM0935-90	SIMSTD	10ppm
-90	SIMISTD	400ppm
163534	DEM (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: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M160459	DFTPP			W	1					OK	11:16AM
	160460	CC2974-10		BNasim	W	2					OK	HCB↑
	160461	09512-MB	95121-1	AB8270	W	3			/	/	OK	
	160462	-MS12				4			/	/	OK	
	160463	JC22879-1		AB SIMNS +1,4dioxane		5			/	/	OK	
	160464	JC22688-6		1,4dioxane		6			/	/	OK	
	160465	09512-MS		AB8270		7			All ↓		M	M for internals
	160466	-MSD				8			/	/	OK	
	160467	JC22200-4	94859-1	NAP +1,4dioxane		9			/	/	OK	Sent for MBcont.
	160468	-5				10			/	/	OK	Sent for MBcont.
	160469	-6				11			/	/	OK	
	160470	-7				12			/	/	OK	
	160471	-8				13			All ↓		M	M for internals
	160472	-9				14			/	/	OK	
	160473	-10				15			/	/	OK	
	160474	-11				16			/	/	OK	
	160475	JC22200-1	94916-1	1,4dioxane		17			/	/	OK	M NAP 8270.

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 E4M2989

Print Analyst Name: Linsey K

Analyst Signature: [signature]

Date: 6/29/16

Columns: ZB-5MS 30m x 25mm x 25um

Method 8270D/625

Initial Cal. Method M4M2974 & M

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Surr 15	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M0064A6	JC22288-1	94916-1	ABSIMS +1,4dioxane	W	18			/	/	OK	
	0047	-2				19			/	/	OK	
	0048	-3				20			/	/	OK	
	0049	JC22349-1	94671-1	ABSIMS +1,4dioxane		21			/	/	OK	
	0050	-2				22			/	/	OK	
	0051	OP94671-MS		ABS270		23			/	/	OK	
	0052	-MSD				24			/	/	OK	10:57pm
	0053	OP95121-MS	95121-1	ABS270		7			/		NT	Out of Clock 11:27pm

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E4M2990

Print Analyst Name: Linbeck

Date: 6/30/16

Analyst Signature: [signature]

Columns: RTX-5ms 30m x 25mm x .25um

Method: 8270D/1625

Initial Cal. Method: M4M2974Sim

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SH158491	DFTPP	50ppm
SM0835-90	SIMstd.	0.5ppm
-014	SIMISTD	400ppm
1635534	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: [signature]

Date: 7-01-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M160484	DFTPP			W	1					ok	PCP↑ reinject
	160485	DFTPP			W	1					ok	8.424m
	160486	CC2974-0.5		BNsim	W	2					ok	
	160487	JC22206-8	94853-1	naph+14dcb	W	3			/	/	ok	
	160488	JC22207-1	94841-1	14dcb	W	4			/	/	ok	
	160489	-2				5			/	/	ok	
	160490	-3				6			/	/	ok	
	160491	-4				7			/	/	ok	
	160492	CC95018-MB1	95018-1	A8270		8			/	/	ok	
	160493	-LCS2				9			/	/	ok	
	160494	JC22211-6		Pest		10			/	/	ok	
	160495	-7				11			/	/	ok	
	160496	-8				12			/	/	ok	
	160497	-9				13			/	/	ok	
	160498	CC95203-MB1	95203-1	B8270		14			/	/	ok	meter sur vincer
	160499	-LCS2				15			/	/	ok	
	160500	-LCSD2				16			/	/	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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2990

Print Analyst Name: Linzey

Analyst Signature: [signature]

Date: 6/30/16

Columns: ZB-5MS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M4M2974sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Surrog 19	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7-01-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M00001	JC22270-2	952031	1,4dioxane	W	17			/	/	ok	
	00002	-3				18			/	/	ok	
	00003	-4				19			/	/	ok	
	00004	-7				20			4 ↓		r	r for internals
	00005	-9				21			/	/	ok	
	00006	OP94644-MB1	94644-1	AB8220		22			/	/	ok	
	00007	JC22408-2		1,4dioxane		23			2,3 ↓	/	ok	r for internals
	00008	-3				24			2,3 ↓	/	ok	r for internals 8:11pm

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 JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M2991

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/30/16

Columns: ZB5ms⊕30m×.25mm×.25µm

Method: 8270D/625

Initial Cal. Method: M4M2974 SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
S 161935 39	DFTPP	50 ppm
-90	SIM STD	1.0 ppm
-94	SIM Internal Std	400 ppm
163534	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: JMJ

Date: 7-01-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M66509	DFTPP				1					nothing	Peak, Degf, Resistell
	66510	DFTPP				1					ok	10-19pm
	66511	CC2944-1.0				2					ok	Bnonly!
	66512	JC22450-1	94994	BSIM/14DIOX		3			/	/	ok	
	66513	-2				4			/	/	ok	
	66514	-3				5			/	/	ok	
	66515	-4				6			/	/	ok	
	66516	-5				7			/	/	ok	
	66517	-6				8			Air		r	for internals.
	66518	-7				9			/	/	ok	
	66519	JC22408-4				10			Air		r	for internals
	66520	-5				11			/	/	ok	
	66521	-6				12			/	/	ok	
	66522	OP95225-MB1	95225	BS270		13			/	/	ok	
	66523	-BS12				14			/	/	ok	
	66524	-BSD12				15			/	/	ok	
	66525	JC22206-4		SIM14DIOX + map		16			/	/	ok	

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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: E4M2991

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/30/16

Columns: ZBSMS (+) 30m x 25mm x 25um

Method: 8270D/625

Initial Cal. Method: M4M2974SIM

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 23	

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] AN 7-01-16

Date: 7-01-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66526	JC22206-5	95225	SIM 1410 +NAP 10X		17			/	/	OK	
	66527	OP95205-MB1	95205	B8270		18			/	/	OK	
	66528	-BS12				19			/	/	OK	
	66529	-MS				20			/	/	OK	
	66530	-MSD				21			/	/	OK	
	66531	JC23008-1		SIM NAP		22			/	/	OK	
R	66532	JC22270-7	95203-1	1,4dioxane		23			/	/	OK	Not Used, Mistakenly added
R	66533	JC22458-2	95224-1	1,4dioxane		24			/	/	OK	
	66534	-3				25			/	/	OK	10:15AM
	66535					26						
	66536					27						
	66537					28						
	66538					29						
	66539					30						

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 EF6644

Print Analyst Name: Brittany Percy

Date: 06/09/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV158279 1	DFTPP	50ppm
CM5732	Internal Std	4000ppm
~~1000~~ 103036 BP 6/9/16	DCM (Fisher)	

Columns: ZB-5MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date 6/10/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F157847	DFTPP			W	1					NOT USING	1271, Reinject.
	848	DFTPP			W	1					[initials]	7:36am
	849	IC6644-100		BNA	W	2					[initials]	SV161935-63A
	850	IC6644-80				3					[initials]	-63B
	851	IC6644-~~50~~ 25	BP 06/09/16 @			4					[initials]	-64O
	852	IC6644-~~25~~ 50				5					[initials]	-64P
	853	IC6644-10				6					[initials]	-63E
	854	IC6644-5				7					[initials]	-63G
	855	IC6644-2				8					[initials]	-63H
	856	IC6644-1				9					[initials]	-64I
												BP 06/09/16

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6645

Print Analyst Name: Brittany Pierce

Analyst Signature: BP

Date: 06/09/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV5182791	DFTPP	50 ppm
CM5732	Internal Std.	4000ppm
163036	DCM (Fisher)	—

Columns: ZB-5MS® 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF16644

Injection Volume: 1.0µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/10/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F157857	DFTPP			W	1					[initials]	2:45 pm
	858	IC6645-100		TCL42		2					[initials]	SV161935-3A
	859	IC6645-80				3					[initials]	-3B
	860	ICC6645-50				4					[initials]	-3C
	861	IC6645-25				5					[initials]	-3D
	862	IC6645-10				6					[initials]	-3E
	863	IC6645-5				7					[initials]	-3G
	864	IC6645-2				8					[initials]	SV161935-31H
	865	IC6645-1				9					[initials]	-3I
	866	ICV6644-50		Acids		10					NOT sig	SV151827-79 Bias low
	867	ICV6644-50		Anilines		11					[initials]	SV161935-20
	868	ICV6644-50		BN2		12					[initials]	SV161935-69
	869	ICV6644-50		BN1		13					[initials]	SV151827-88
	870	ICV6644-50		ABN surr		14					[initials]	OP161712136
	871	ICV6644-50		Benzidine 3rd		15					[initials]	SV151827-38C
	872	ICV6644-50		HQ		16					[initials]	SV151827-98A

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: EF6646

Print Analyst Name: Archie Cobson

Analyst Signature: [signature]

Date: 6/10/16

Columns: 75m + 30m x 25mm x 25m

Method: 8270D 625

Initial Cal. Method: MF 6644

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1518278	DFTPP	50ppm
Cm5732	Internal Std	400ppm
16302	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: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F157873	DFTPP			W	1					NG	127 ↑ reinjected
	157874	DFTPP			W	1					Not using	127 T - Bake + Reinject
	157875	DFTPP			W	1					Not using	127 T -
	157876	DFTPP			W	1					↓	
	877	DFTPP			W	1					Not using	51 ↓ Reinject!
	878	DFTPP			W	1					↓	
	879	DFTPP			W	1					OK	354 pm
	880	BP 6/10/16 ~~CC~~ lcv6644-50		Acids	W	1					OK	SV151827-114 400PM

AMO

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 EF6647

Print Analyst Name: Ashley M Dye

Analyst Signature: AMD.

Date: 6/10/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV5182791	DFTPP	50ppm
CM5732	Internal Std.	4000ppm
163036	DCM (Fisher)	II

Columns: ZB5MS (II) 30m x .25mm x .25µ

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F157881	DFTPP				1					ok	441DM
	157882	IC664A-100		APQ	W	2					ok	SV16193546A
	157883	-80				3					ok	↓ B
	157884	IC664A-50				4					ok	SV16193545A
	157885	IC664A75				5					ok	↓ B
	157886	-10				6					ok	SV16193546C
	157887	-5				7					ok	C
	157888	-2				8					ok	F
	157889	-1				9					ok	G
	157890	CV6647-50		APQ 2nd		10					ok	OP16171213O
	157891	-50		APQ 3rd.		11					ok	SV15182912B
	157892	-50		Diphenylamine		12					not needed	SV16193552
	157893	-50		O-Tol		13					not needed	SV16193518
	157894	-50		Methapyrline		14					not needed	SV15182912B
	157895	-50		Hexachlorophene		15					not using	OP16162450 Bias Low AMD 6/10/16

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

SGS ACCUTEST JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6657

Print Analyst Name: Brittany Piercy

Analyst Signature: B.P.

Date: 06/20/2016

Columns: ZB-5MS⊕ 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1518279I	DFTPP	50ppm
SV1616936-64	BNA	25ppm
-32	TCL42	25ppm
CM-5732	Internal Std.	4000ppm
162418	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: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F158096	DFTPP			W	1					OK	7:32 am
	097	CC6644-25		BNA	W	2					OK	29, 48, 61, 63, 64, 76↑ 10.↓
	098	CC6645-25		TCL42	W	3					OK	105, 109, 111↑
	099	OP94835-MB1	94835-1	AB8270⊕	W	4		+			OK	
	100	-BS1				5					OK	
	101	JC22152-1	94835-1	+1,4 Diox ABNJTCL20+	W	6		+			OK	
	102	-2		↓		7		+			OK	
	103	-3				8		+			OK	
	104	-4		↓		9		+			OK	
	105	JC21911-1	94729-1	ABSL BMS 2mnap+mmap	W	10					OK	
	106	-3		↓		11					OK	
	107	-4				12					OK	
	108	-5				13					OK	BP 6/20/2016 ⓐ ~~RR 1:2 (1,4 Diox)~~
	109	-6				14					OK	
	110	-7				15					OK	
	111	-8		↓		16					OK	
R	112	JC21904-12	94697-1	BNJTCL20+	W	17	5	+			OK	No +IC Needed

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 EF6657

Print Analyst Name: Brittany Piercy

Date: 06/20/2016

Analyst Signature: B.P. 7 BP 6/20/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 37	

Columns: ZB-5MS@30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
R	F158113	JC21985-1	94783-1	Phen + Flour (pah)	W	18			/	/	OK	
R	114	JC22025-21		ABTCL20+		19	2		/	/	OK	
R	115	-22				20	2		/	/	OK	
R	116	-1				21	10		/	/	OK	1
R	117	-8				22	10		/	/	OK	RR 1:2
R	118	-17				23	5		/	/	OK	
R	119	-19				24	2		/	/	OK	7:29 pm
R	120	JC22006-2	OP94752-1	ABTCL20+	W	25	10				NOT using	RR Outside 12 Hours.
	121	JC22024-5	94783-5	BSIM 1,4 Diox		26			/	/	OK	Ran After F158103
	122	OP94799bs1	94799-1	AB625	W	27			✓	✓	OK	ran after F158113
												BP 06/21/16

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

SGS ACCUTEST JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6659

Print Analyst Name: Brittany Piercy

Date: 06/21/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161827-91	DFTPP	50ppm
SV161935-64P -326	BNA	25ppm
CM5732	Internal Std.	4000ppm
163039	DCM (Fisher)	—

Columns: ZB-5MS® 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

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: 6-24-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F158149	DFTPP			W	1					NOT USING	#51↓ Reinject!
	150	DFTPP			W	~~2~~ 1	BP6/21/16				↓	#51↓
	151	DFTPP			W	~~3~~ 1					OK	11:31 AM
	152	CC6644-25		BNA	W	2					OK	BP6/21/16 ~~SV16~~ 10, ↓ ↑ 63, 29, 48, 76
	153	CC6645-25		TCL42	W	3					OK	# 105, 109, 111↑
	154	CC6647-25		Ap9	W	4					not needed	SV161935-42B
R	155	OP94916-BS1	94916-1	AB8270	W	5			/		~~NOT USING~~ ~~OK OK~~	BP6/21/16 BS Fails Compounds↓
R	156	JC22288-3		ABTCL20+		6			/		NOT USING	RR on Another Instrument
R	157	JC22404-1		ABTCL20+		7		+	/		OK	
R	158	-2				8		+	/		OK↓	
R	159	OP94916-MS				9					NOT RUN	
R	160	-MSD				10					NOT RUN	
R	161	JC22406-1		ABTCL20+		11					↓	↓
R	162	JC22006-2	94752-1	ABTCL20+	W	12	10		/	/	OK	
R	163	JC22142-4	94806-1	BNJTCL20®	W	13		+	/		~~NOT USING~~	CFI BP 6/23/16 ~~No Perylene d12 - RX~~
	164	JC22157-2		BNJTCL20®		14	10		/	/	[illegible]	
	165	-3				15	10		/	/	[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.

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Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

BP 6/21/16

Batch ID EF6660 59

Print Analyst Name: Brittany Pierce

Date: 06/21/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 45	

Columns: ZB-5MS 30m x .25mm x .25µm

Method 8270D/ 1625

Initial Cal. Method ME6644

Injection Volume: 1.0µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-24-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F158166	JC22157-7	94806-1	BNTCL20	W	16	10		/	/	ok	
	167	-10				17	5	X	/	✓	ok	Ir=5m1
	168	-10				18	100		/	–	ok	Ir=5m1
	169	JC22025-8	94783-1	ABTCL20	W	19	20		/	/	ok	
R	170	JC22136-2	94799-1	ABSL+BMS+CZ N-decane + Nodec	W	20			2 ↓		RR	CFI RR IS forcfs.
	171	OP94835-MS	94835-1	AB8270	W	21			/	/	ok	
	172	-MSD				22			/	/	ok	
	173	JC22246-1		ABy1cut		23		X	/	/	ok	
	174	-2				24		X	/	/	ok	
	175	JC22256-1		ABy1cut		25		X	/	/	ok	9:38 pm
	176	-2				26					not an.	sequence cut
	177	-4				27					↓	↓
	178	-5				28						
	179	-6				29						
												AMO

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

7.7.20

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

@ JMJ 6/21/16

Batch ID EF6660

Print Analyst Name: Julius M. Johnson

Date: 6/21/16

Analyst Signature: JMJ

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827791	DFTPP	50ppm
163039	DCM (Fisher)	—

Columns: ZB-5ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

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: 6/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F158180	DFTPP				1					not using	5↓, re-inject
	158181	DFTPP				1						5↓, re-inject
	158182	DFTPP				1						5↓, re-inject rchnc
	158183	DFTPP				1						5↓, re-inject
	158184	DFTPP				1						5↓, re-inject rchnc
	158185	DFTPP				1					not using	5↓ rchnc
	158186	DFTPP				1						5↓, re-inject
	158187	DFTPP				1						5↓
	158188	DFTPP				1					not using	~~12.11pm~~ @ JMJ 6/21/16
	158190	ic6660-100		AP98L		2					OK	SV151827-96A
	158191	ic6660-80				3					OK	SV161935-87
	158192	icc6660-50				4					OK	SV151827758A
	158193	ic6660-25				5					OK	-58B
	158194	ic6660-10				6					OK	-96E
	158195	ic6660-5				7					OK	-96G
	158196	ic6660-2				8					OK	-96H
	158197	ic6660-1				9					OK	-96I

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 JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6660

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 12/22/16

Columns: ZB5ms (1) 30m*.25mm*.25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 49	

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: 6/22/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments AMO 6/22/16 (4)
	F158198~~8~~	icv6660-50		2+3 CA		10					OK	SV151827-100
	158198~~9~~	icv6660-50		1C2NB		11					OK	SV151827-99
(4)	158~~194~~ 200	icv6660-50		M-Toluidine		12					OK	OP151624123
(4) JMJ 6/21/16	158208	icv6660-50		Catechol		13					OK	OP16177011 559AM
	158189	DFTPP									OK	12:11pm (was run after 158188, entry error caused it to be placed here)
												BP 6/22/16

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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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6662

Print Analyst Name: Brittany Piercy

BP 6/23/16

Date: 06/~~22~~ 23/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.
SV151827-58B	APGSL	25ppm

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV161935-64P	BNA	25ppm
SV161935-32D	TCL42	25ppm
SV151828-57B	APG	25ppm
CM5732	Internal Std.	4000ppm
163039	DCM (Fisher)	—

Columns: ~~ZB-5MS~~ 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

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: dn

Date: ~~06/24/16~~ 6/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158248	DFTPP BP 6/23/16			W	1					ok	7:48 pm
	249	CC6644-25		BNA	W	2					ok	10↑ 29,48,49,57,64,76,98↑
	158250	CC6645-25			W	3					ok	105↑ 105↑ 11↑
	158251	CC6647-25			W	4					not using	Retune-Areas low
	158252	DFTPP			W	1					not using	51↑ - Reinject
	158253	DFTPP			W	1					not using	51↑ - Reinject
	158254	DFTPP			W	1					ok	103 ↓
	158255	CC6644-25		BNA	W	2					ok	10↑ 29,48,49,64↑
	158256	CC6645-25		TCL42	W	3					ok	105↑
	158257A	CC6647-25		APG	W	4					ok	wrong bottle. rerun as 'A' file
	158258	CC6960-25		APGSL	W	5					ok	
	158259	CC6644-5		TCDD	W	6					ok	
	158260	op94855mbl	94855-1	AB8270	W	7			✓	✓	ok	
	158261	VC223501		APGSL + TCDD		8			✓	✓	ok	
	158262	-2				9			✓	✓	ok	
	158263	-3				10			✓	✓	ok	
	158264	op94644mbl	94644-1	AB8270+	W	11		+	✓	✓	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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF66662

Print Analyst Name: Ashley Mayo

Analyst Signature: AMO

Date: 6/23/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 59	

Columns: ZB5ms(+)30mx.25mmx.25µm

Method 8270D/625

Initial Cal. Method MF0644

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: [illegible]

Date: 6-24-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158265	OP94644-bs1	94644-1	AB8270+	W	12			✓	✓	OK	
	158266	JC21788-5		BNJTCUN0+		13		+	/	/	OK	
	158267	OP94789-mb1	94789-1	AB8270+	W	14		+	/	/	OK	
	158268	JC22107-8		ABTCUN0+		15		+	/	/	OK	
	158269	-9				16		+	/	/	OK	
	158270	-10				17		+	/	/	OK	
	158271	-11				18		+	/	/	OK	
	158272	JC22256-2	94835	ABNJTCL20+		19		+	/	/	OK	
	158273	-4				20		+	/	/	OK	
	158274	-5				21		+	/	/	OK	
	158275	-6				22		+	/	/	OK	
	158276	JC22206-1		ABSL+2mmap +mmap		23			/	/	OK	
	158277	-2				24			/	/	OK	10:18 pm
	158278	-3				25					RR	outside 12 Hours
	158279	OP94799-MB1	94799	~~AB625~~ AB625 [illegible] 6/23/16		26		+	/	/	OK	625
	158280	JC22106-1		ABAPL+ [illegible] 6/23/16 DIOX		27			/	/	OK	
	158281	OP94885-MS	94885	AB625		28			/	/	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 EF6662

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/23/16

Columns: ZB5ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 59	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-24-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158282	OP94885-MSD	94885	AB625		29			/	/	OK	625
	158283	JC22240-2		ABPPL		30	1:5		/	/	OK NOT USING	BP 6/23/16 ~~Not Needed~~
	158284	JC22240-2				31	1:100		/	/	OK	
	158285	JC22368-1				32	1:2		/	/	OK	
	158286	JC22460-1				33	1:5		/	/	OK	~~Remake & PR~~
	158287	JC22460-1				34	1:200		/	/	OK	3:08AM
												BP 6/24/16

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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Form: OR015-07
Rev. Date: 1/19/16

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF66663

Print Analyst Name: Brittany Percy

Analyst Signature: B.P.

Date: 06/24/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV5182791	DFTPP	50ppm
-1076	BNA	50 ppm
SV161935-626	TCL42	50 ppm
CM-5732	Internal Std.	4000ppm
163039	DCM (Fisher)	—

Columns: ~~7B~~-5MS @ 30m×.25mm×.25µm

Method 8270D/1625

Initial Cal. Method MF66644

Injection Volume: 1.0µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-28-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158289	DFTPP			W	1					OK	7:40 Am
	158290	CC6644-50		BNA	W	2					OK	10,18,23,39,40,72,64,73↑
	158291	CC6645-~~50~~ 25 BP 6/24/16		TCL42	W	3					OK	105,109↑
	158292	BNA-verf. 1ppm			W	4					OK	SV161935-65I
R	158293	JC22206-3	94835-1	ABSL+2mnap +Mnap	W	5			/	/	OK	
	158294	JC22439-1	94916-1	ABSL BMSL 2mnap+Mnap	W	6			/	/	OK	
	158295	-2				7			/	/	OK	
	158296	JC22200-1				8					NOT using	SIM only!
	158297	JC22259-4		BPAH		9			/	/	OK	
	158298	JC22288-1		ABTCL20+		10		+	/	/	OK	
	158299	-2				11		+	/	/	OK	
	158300	JC22414-13		ABTCL20		12			/	/	OK	
	158301	JC22412-3		ABTCL20		13			/	/	OK	
	158302	-4				14			/	/	OK	
	158303	-5				15			/	/	OK	
	158304	-6				16			/	/	OK	
	158305	-7				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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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6663

Print Analyst Name: Brittany Pieroy

Analyst Signature: B.P.

Date: 06/24/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 65	

Columns: ZB-5MS® 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-28-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158306	JC22412-2	94916-1	ABTCL20	W	18			✓	✓	ok	3:44pm

BP 6/27/16

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6666

Print Analyst Name: Brittany Pierce

Analyst Signature: BP

Date: 06/27/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV161935-6MP	BNA	25ppm
~~SV151827-B4C~~	TCL42	25ppm
SV161935-22B BP 06/27/16		
CM-5732	Internal Std	4000 ppm
1163039	DCM (Fisher)	

Columns: ZB-5MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

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: 6-28-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158367	DFTPP			W	1					OK	7:23AM
	158368	CC6644-25		BNA	W	2					OK	~~21~~ BP 6/27/16 #48, 57, 61, 63, 64, 73 76 98 ↑
	158369A	CC6645-25		TCL42	W	3					OK	wrong nal 105 Areas↑, RRas A Pile.
	158370	OP95077-MB1	95077-1	AB8270+	W	4		+			OK	
	158371	-BS1				5					OK	
	158372	OP94859-MB1	94859-1	AB8270	W	6					OK	
	158373	-BS1				7					OK	
R	158374	JC22004-4	94752-1	ABTCL20+	W	8	10				OK	BP 6/27/16 ~~Remake & RR~~
	158375	JC22454-6	94960-1	BSIM 1,4 DIOX ~~ABTCL20+~~	W	9					~~NOT~~ OK ~~USING~~	~~SIM ONLY~~ BP 06/27/16
	158376	-7				10					OK	
	158377	-8				11					OK	
	158378	-9				12					OK	
	158379	-10				13					OK	
	158380	JC22796-1	95077-1	BNJTCL29+ ~~AB8270+~~ BP 6/28/16	W	14		+			OK	
	158381	-2				15		+			OK	
	158382	OP95077-MS				16					OK	
	158383	-MSD				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

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6666

Print Analyst Name: Brittany Pleroy

Date: 06/27/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 77	

Columns: ZB-5MS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0uL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: dm Date: 6-28-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158384	JC22206-4	94859-1	ABSL+2mnap +mnap		18			/	/	OK	
	158385	-5		+1,4 DIOX		19			/	/	OK	
	158386	-6				20			/	/	OK	
	158387	-7				21 ~~20~~	BP 6/27/16		/	/	OK	RR 1:10
	158388	-8				22	①		/	↑	OK	sent to RX
	158389	-9				23			/	/	OK	6:28 pm RR 1:50
	158390	-10		↓		24					NOT RAN	cut from sequence
	158391	OP94859-MS				25					↓	↓
	158392	-MSD				26					↓	↓
	158393	JC22004-4	94752-1	ABTCL20+	W	27					NOT RAN	NOT NEEDED Ran Before "F158378"

BP 06/28/2016

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6667

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/27/16

Columns: ZB5MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1516741	DFTPP	50ppm
SV15807106C	BNA	5ppm
SV1649354A	TCL42	5ppm
VM5732	Internal Standard	4000ppm
163031	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: [signature] Date: 6-30-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F158394	DFTPP				1					OK	10:59pm
	158395	CC6644-50		BNA		2					OK	19.39µl
	158396	CC6645-50		TCL42		3					OK	
	158397	BNAVerf-1ppm				4			/		OK	SV161935-65A
	158398	OP95160 @pm 6-28-16 -MB1	95016	AB8270+	W	5		+	/	/	OK	
	158399	-BS1				6			/	/	OK	
	158400	-MS				7			/	/	OK	
	158401	-MSD				8			/	/	OK	
	158402	JC22450-8		BNJTCL20+		9		+	/	/	OK	
	158403	-9		↓		10		+	/	/	OK	
	158404	-10		↓		11		+	/	/	OK	
	158405	JC22477-1		ABNJTCL20+		12		+	/	/	OK	
	158406	-2		↓		13		+	/	/	OK	
	158407	-3		↓		14		+	/	/	OK	
	158408	-4		↓		15		+	/	/	OK	
	158409	-5		↓		16		+	/	/	OK	
	158410	-8		↓		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.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6667

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/27/16 BP 6/28/16

Columns: ZB5ms 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 81	

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: JM Date: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	158411	JC22499-1	95016	BNJTCL20+	W	18		+	/	/	OK	
	158412	-2		↓		19		+	/	/	OK	
	158413	JC22506-4		ABNJTCL20+		20		+	/	/	OK	
	158414	-5				21		+	/	/	OK	
	158415	-6				22		+	/	/	OK	
	158416	-7		↓		23		+	/	/	OK	
	158417	OP94859-MS	94859-1	AB8270+	W	24			/	/	OK	BP 6/28/16 ~~RR 1:50 (1:4 Dilox)~~
	158418	-MSD				25			/	/	OK	10:18 AM ~~(1:4 Dilox) RR 1:50~~

BP 6/28/16

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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Form: OR015-07
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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6668

Print Analyst Name: Brittany Perez

Date: 06/28/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.
SV151827-95B	APGSL	25 ppm

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV161935-6AP	BNA	25ppm
SV161935-3AD	TCL42	25ppm
SV161935-45B	APG	25 ppm
CM-5732	Internal Std.	4000ppm
163039	DCM (Fisher)	—

Columns: ZB-5MS® 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F158419	DFTPP			W	1					NOT USING	Bake & Reinject
	158420	DFTPP			W	1					↓	5↓, Reinject.
	158421	DFTPP			W	1					not using	~~H5 AVA~~ abundances reinstall
	158422	DFTPP			W	1					OK	226 ppm
	158423	CC6644-25		BNA	W	2					OK	
	158424	CC6645-25		TCL42	W	3					OK	
	158425	CC6647-25		APG	W	4					NOT USING	
	158426	CC6660-25		APGSL	W	5					↓	
	158427	op95080-mb1	95080-1	AB625	W	6		+	J	J	OK	
	158428	-1x51				7			J	J	OK	fails low - re whole batch.
	158429	JC22460-1rx		ABPPL		8			J	3L	OK	RR 1:1000
	158430	JC20816-19rx		ABSL2		9			J	J	OK	
	158431	JC22628-1		ABPPL		10			J	J	OK	
R	158432	JC22460-1rx		ABPPL		11	1000		J	X	OK	
	158433	op95080ms	95080-1	AB625		12			/	/	OK	
	158434	-msd				13			/	/	OK	
	158435	JC22733-1	95080-1	ABPPL	W	14			/	/	OK	RR 1:10, 1:50

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 EF66668

Print Analyst Name: Ashley Mdye

Analyst Signature: AMO

Date: 06/28/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 85	

Columns: ZB5MS (1) 30m x 25mm x 0.5 m

Method 8270D/625

Initial Cal. Method MF6644

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: AM

Date 6-30-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158436	JC22733-2	95080-1	ABPPL	W	15			/	/	OK	
	158437	JC22627-1		ABPPL		16			/	/	OK	
	158438	JC22736-1		ABPPL		17			/	/	OK	
	158439	JC22546-1		BTCLH		18			/	1 ↑	OK	RR 1:5 for CFS
	158440	JC22206-10	94859-1	ABSL+ 2mnap MNAP+ADX+ nap		19			/	/	OK	RR 1:100
	158441	-11		↓		20			/	/	OK	
R	158442	-7				21	10		/	/	OK	
R	158443	-9				22	50		/	–	OK	11:02 pm
	158444	JC20816-1 Rx	95080-1	ABSL2	W	9			/	/	OK	rerun F158432
	158445	op95141-mb1	95141-1	AB625+	W	23		+	/	/	OK	625
	158446	-bs1				24			/	/	OK	Falls ↓ Rx
	158447	-bs13				25			/		NOT using	
	158448	-ms				26			/	/	OK	
	158449	-msd				27			/	/	OK	
	158450	JC22598-3		ABPPL+ APGCL		28			/		NOT using	
	158451	JC22700-3		↓		29			/		↓	
	158452	JC22809-1		ABPPL+		30		+	/	/	OK	NO TIC ↓

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 EF6668

Print Analyst Name: Ashley Lidge

Date: 06/28/2016.

Analyst Signature: AMO.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 85	

Columns: 2135MS 30m x 25mm x 5 in

Method 8270D/625

Initial Cal. Method MF6644

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: AM

Date: 6-30-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158453	JC22510-1	95741-1	ABPPL+	W	31			/		Not using	
	158454	JC27954-1A		BPPL+		32		+	/	/	OK	3:52AM

BP 06/29/2016

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6670 BP 6/29/16

Print Analyst Name: Brittany Piercy

Date: 06/29/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
-1066	BNA	50ppm
SV161935-646	TCL42	50ppm
CM-5732	Internal Std.	4000ppm
163039	DCM (Fisher)	—

Columns: ZB-5MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6644

Injection Volume: 1.0µl

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: 6-30-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158462	DFTPP			W	1					OK	10:05 Am
	158463A	CC6644-50		BNA	W	2					OK	10, 39 ↓
	158464	CC6645-50		TCL42	W	3					OK	105, 109, 111↑ 111 Area↑
	158465	CC6647-50		AP9	W	4					OK	SV161935-42A
	158466	CC6647-50 60		AP9SL (4)	W	5					OK	SV151827-96C
	158467	BNA-verf. 1ppm			W	6					OK	SV161935-65E
	158468	OP95119-MB1	95119-1	AB8270	S	7					OK	
	158469	-BS1				8					OK	
	158470	-BS13				9					OK	Sent to rx BS13 fails LO-pol.
	158471	-BS14				10					OK	
	158472	JC22738-1		ABAP9SL2		11					OK	
	158473	OP95119-MS				12					OK	
	158474	-MSD				13					OK	
	158475	JC22733-1	95080-1	ABPPL	W	14	10				OK	Ran Before "F158473"
	158476	-1				15	50			–	OK	
	158477	JC22206-10	94859-1	ABSL+2mnap +Mnap+1,4Diox +hap	W	16	10				NOT RAN	Not Needed.
	158478	-10				17	100			–	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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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6670

Print Analyst Name: Ashley Mdyle

Analyst Signature: AMO

Date: 6/29/2016

Columns: 7B5MS @ 30m x 25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6694

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 93	

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: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F158479	JC22546-1	95080-1	BTCL11+	W	18	5			4	OK	7:00pm CES
												BP 06/30/2016

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

7.7.27

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5571

Print Analyst Name: Agelle Cocozza

Analyst Signature:

Date: 6/14/16

Columns: RXI 5ms 30m x 0.25mm x 0.25um; ZB5 ms 30m x 0.25mm x 0.25um AC 6/15/16

Method 8270D 1625

Initial Cal. Method MZ5571

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 15182791	DETPP	50ppm
CM-5732	Internal Std	4000ppm
160038	DCM (Richer)	—

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: 6/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	111534	DETPP			W	1					Nc	baseline noise-injected
	111535	DETPP				1					OK	4.45 ppm
	111536	SS 6/14/16 IC5571-100		BNA		2					OK	SV 16 9185-63A
	111537	SS 6/14/16 IC5571 -80				3					OK	-63B
	111538	IC5571-50				4					OK	-63C
	111539	IC5571-25				5					OK	-63D
	111540	-10				6					OK	-63E
	111541	-5				7					OK	-63G
	111542	-2				8					OK	-63H
	111543	-1				9					OK	-63I 8.3ppm
												SB

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 EZ5573

Print Analyst Name: Arielle Cavazza

Date: 6/15/16

Analyst Signature:

Columns: 5x15 Elite 5ms x 15mm x 25um

Method 8270D/625

Initial Cal. Method MZ5571

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
V 1518791	PFTBA	50ppm
CM5732	Int Std	40ppm
162418	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: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	Z11544	DCMPP				1					OK	80%RM
	545	ICV5573-106		TCLP12		2					OK	SU16153538
	546	80				3					OK	3B
	547	ICCV5573-58				4					OK	3C
	548	ICV5573-28				5					OK	3D
	549	10				6					OK	3E
	550	5				7					OK	3G
	551	2				8					OK	3H
	552	1				9					OK	3I
	553	ICV5571-56		Acids		10					RR	60↓ SU16193521
	554	50		ABN Surr		11					OK	08/16/16 2107 75
	555	50		Anilines		12					OK	SU16135-20
	556	50		3NI		13					RR	-75 63↓
	557	50		3NR		14					RR	SU15827 80
	558	ICV5573-50		~~HQ~~ BZP 3rd		15					OK	SU15827 3883 Reporting 3,300,000
	559	50		~~BZP 3rd~~ HQ		16					OK	98% 31ppm

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

7.7.29

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SGS ACCUTEST JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5574

Print Analyst Name: Sean Black

Analyst Signature: Sean T Black

Date: 6/15/16

Columns: Rtx-5Sil MS 30m x .25mm x .25µ

Method 8270 D/625

Initial Cal. Method MZ5571

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 151827-91	DFTPP	50ppm
CM-5732	Internal Std	400ppm
162418	DCM (Rinse)	-/-

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: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	211580	DFTPP				1					OK	4.41ppm
	111561	ICV5571-50		Acids		2					OK	SV161635-21
	111562	-50		BN1		3					GE	SV161635-75
	111563	-50		BN2		4					RR	SV151827-80 6.23ppm

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

7.7.30

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EZ5575

Print Analyst Name: Archie Cooper

Date: 6/16/16

Analyst Signature: [illegible]

Columns: 8270D/625

Method: 8270D/625

Initial Cal. Method: M75571

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1512791	DFTPP	50ppm
CM5732	int std	400ppm
62458	DCM (Fish-d)	

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: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	11564	DFTPP									ok	841AM
	11565	IZ5554-50		BNZ							OK	SV16G3565 855AM

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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7.7.31

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EZ5596

Print Analyst Name: Arielle Cocum

Analyst Signature:

Date: 6/29/16

Columns: Rtx-5Sil MS 30m x 0.25mm x 0.25um

Method: 8270D/625

Initial Cal. Method: MZ5571

Injection Volume: 1 uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
518741	DFTPP	50ppm
613383	BNA	200ppm
527	TC447	4
CM5732	ISTD	400ppm
163594	Qcm 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: AMW

Date: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	111963	DFTPP			W	1					NG	Pgpt reinject
	111964	DFTPP			W	1					NG	Pgpt reinjectl
	111965	DFTPP			W	1					OK	1140ppm
	111966	CC5571-25			W	2					OK	27, 42, 48 ↓ 54T Pgp ↓
	111967	CC5573-25			W	3					OK	BZD ↓ 14QT
	111968	BNA verify			W	4					OK	SV161935-613
	111969	OPQ5160-MB1	G5160	AG82701	W	5					OK	
	111970	CSL	AC	Graham Assl + Wap + Zuma		6					OK	
	111971	JC22206-68	95121	AGSLCZ01	W	7					OK	
	111972	JC23380-69	95121	AGSLCZ01	W	8					OK	
	111973	70		DPA 17		9					OK	
	111974	71		AGSLCZ01		10					OK	no the screen memory
	111975	68				11					OK	
	111976	JC22702-2	95160	Bize		12					OK	
	111977	3				13					OK	
	111978	8				14					OK	
	111979	9				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 JC22206

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EZ5596

Print Analyst Name: Angelle Cocorum

Analyst Signature:

Date: 6/29/16

Columns: Rtx-5Sil MS 30m x 25mm x .25um

Method: 8270D/625

Initial Cal. Method: MZ5571

Injection Volume: 1ul

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: AMO

Date: 6/30/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	EZ11980	OP95160-MB	95146	AB8270	W	16			/	/	OK	
	11981	LCS				17			/	/	OK	
	11982	OP95083-MB	95083	AB8270+	S	18		X	/	/	OK	no TIC search required
	11983	JC22247-4		AB8270		19	2		/	/	OK	ran AFter EZ11978 ↓
R	11984	JC22969-14	95142	NAP 1:2 MMP	S	20	10		/	/	OK	ran 1:2 for intensity
R	11985	JC22358-5T		BTEX20+		21	20		/	/	OK	~~not needed~~ - ~~not tested~~ AC 6/30/16
	11986	15R				22	2	X	/	/	OK	
	11987	5T				23	2	X	/	/	OK	
	11988	15R				24	2	1:2 ↓			RR	RR 1:4 for intensity
	11989	JC22937-1		AB8270+ 1:2 MMA NDMA DEO		25		X	/	/	OK	1:2 pm
	11990	DCM			W	100						Clean
	11991	DCM				100						

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

6-1737

LOGBOOK ID:

ABN Aqueous Extraction Logbook

Date Started: 6/16/16 Time Started: 4:00pm
Date Finished: 6/16/16 Time Finished: 9:30pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

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: is JC222061
sim ms/msd is JC222061

Final Volume:

Other: * bottle missing since 6/15/16 — 6/16/16 ADC

	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		DI H2O	1000	1	5	clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC22206-1 MS		5	yellow	960	1	5	yellow	1		
	↳ MSD		3	yellow	990	1	5	yellow	1		
	BS 125IM			DI H2O	1000	1	5	clear	1		
	JC22206-1 MS		6	yellow	980	1	5	yellow	1		
	↳ MSD		2	yellow	930	1	5	yellow	1		
1	JC22004-4 rx	ABN		*							
2	JC22206-1		1	yellow	930	1	5	clear	1		
3	-2		2	yellow	920	1	5	clear	1		
4	-3		1	yellow	940	1	5	clear	1		
5	JC22152-1		1	orange	980	1	5	clear	1		
6	-2		1	peach	980	1	5	clear	1		
7	-3		2	yellow	940	1	5	clear	1		
8	-4		2	yellow	990	1	5	clear	1		
9	JC22246-1		2	clear	990	1	5	clear	1		
10	-2		1	clear	990	1	5	clear	1		
11	JC22256-1		2	clear	990	1	5	clear	1		
12	-2		1	clear	960	1	5	clear	1		
13	SPIKE 6/15/16										
14	-4		2	clear	950	1	5	clear	1		
15	-5		3	clear	950	1	5	clear	1		
16	-6		2	clear	990	1	5	clear	1		
17											
18											
19											
20											

Comments:

BATCH # MS 94835 RACK# D1

Extracted by: RS, ADC
Concentrated by: RS, GM, SD
Vialed by: ADC
Relinquished by: ADC
Accepted by:
Supervisor Review: 6/17/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	3	75.4,76.0	-0.8,0.1	75,76	NA
Waterbath Chiller (GPM)	E2	5	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1677208	50	1

WITNESS SIGN: RA SPIKE SIGN: ADC

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193570	50	Acid: 1
Acid (for SIM)			A(SIM): 2.1
Base #1	16193575	50	1
Base #2	16193574	50	1
Anilines	16193573	50	1
BSIM	1677116	1	1

WITNESS SIGN: RS SPIKE SIGN: ADC

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	~~158459~~ 162418	PM	6/60

REAGENT	LOT #	BRAND
NaOH	157991	JTB
H2SO4	4603389	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	02012-2	Rel
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

6-1737

LOGBOOK ID:

ABN Aqueous Extraction Logbook

Date Started: 6/16/16 Time Started: 4:00pm
Date Finished: 6/16/16 Time Finished: 9:30pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

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: is JC222061
sim ms/msd is JC222061

Final Volume:

Other: * bottle missing since 6/15/16 — 6/16/16 ADC

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) △ H2SO4	pH Adjust(mL) < 11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI/H2O	1000	1	5	clear	1		
	BS1			DI/H2O	1000	1	5	yellow	1		
	JC22206-1 MS		5	yellow	960	1	5	yellow	1		
	MSD		3	yellow	990	1	5	yellow	1		
	BS 125IM			DI/H2O	1000	1	5	clear	1		
	JC22206-7 MS		6	yellow	980	1	5	lt yellow	1		
	MSD		2	yellow	930	1	5	lt yellow	1		
1	JC22004-4 rx	ABN		*							
2	JC22206-1		1	yellow	930	1	5	clear	1		
3	-2		2	yellow	920	1	5	clear	1		
4	-3		1	lt yellow	940	1	5	clear	1		
5	JC22152-1		1	orange	980	1	5	clear	1		
6	-2		1	peach	980	1	5	clear	1		
7	-3		2	yellow	940	1	5	clear	1		
8	-4		2	yellow	990	1	5	clear	1		
9	JC22246-1		2	clear	990	1	5	clear	1		
10	-2		1	clear	990	1	5	clear	1		
11	JC22256-1		2	clear	990	1	5	clear	1		
12	-2		1	clear	960	1	5	clear	1		
13	SPK6/15/16										
14	-4		2	clear	950	1	5	clear	1		
15	-5		3	clear	950	1	5	clear	1		
16	-6		2	clear	990	1	5	clear	1		
17											
18											
19											
20											

Comments:

BATCH # MS 94835 RACK# D1

Extracted by: RS ADC
Concentrated by: RS, GM, SD
Vialed by: ADC
Relinquished by: ADC
Accepted by:
Supervisor Review: 6/17/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	3	75.4,76.0	+0.8,0.1	75,76	NA
Waterbath Chiller (GPM)	E2	5	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1677208	50	1

WITNESS SIGN: RA SPIKE SIGN: ADC

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193570	50	Acid: 1
Acid (for SIM)			A(SIM): 2.1
Base #1	16193575	50	1
Base #2	16193574	50	1
Anilines	16193573	50	1
BSIM	1677116	1	1

WITNESS SIGN: RS SPIKE SIGN: ADC

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	~~158459~~ 162418	PM	6/60

REAGENT	LOT #	BRAND
NaOH	157991	JTB
H2SO4	4603389	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	02012-2	Rel
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

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LOGBOOK ID: 6-1744

ABN Aqueous Extraction Logbook

Date Started: 6/17/16 Time Started: 16:00
Date Finished: 6/17/16 Time Finished: 7:

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM_____
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 94859	RACK# A-1
Extracted by:	FA
Concentrated by:	FA, SD
Vialed by:	FA
Relinquished by:	FA
Accepted by:	
Supervisor Review:	6/17/16

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:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DIH2O	1000	1	4	clear	1		
	BS1			DIH2O	1000	1	4	yellow	1		
	JC22206-9 MS		3	yellow	1000	1	4	yellow	1		
	MSD		1	yellow	1000	1	4	yellow	1		
	BS	12SIM		DIH2O	1000	1	4	clear	1		
	JC22206-9 MS		8	yellow	1000	1	4	L-yellow	1		
	MSD		2	yellow	1000	1	4	L-yellow	1		
1	JC22270-1	ABN	2	clear	1000	1	4	L-yellow	1		
2	-2		1	orange	1000	1	4	yellow	1		
3	-3		1	yellow	1000	1	4	yellow	1		
4	-4		1	brown	1000	1	4	clear	1		
5	-5		1	clear	1000	1	4	clear	1		
6	-6		1	clear	1000	1	4	clear	1		
7	-7		2	clear	1000	1	4	clear	1		
8	-8		2	clear	1000	1	4	clear	1		
9	-9		2	clear	1000	1	4	clear	1		
10	-10		2	brown	1000	1	4	clear	1		
11	-11		1	clear	1000	1	4	clear	1		
12	JC22206-4		3	yellow	1000	1	4	L-yellow	1		
13	-5		3	yellow	1000	1	4	L-yellow	1		
14	-6		3	yellow	1000	1	4	clear	1		
15	-7		3	yellow	1000	1	4	clear	1		
16	-8		1	orange	1000	1	4	yellow	1		
17	-9		7	yellow	1000	1	4	clear	1		
18	-10		3	yellow	1000	1	4	yellow	1		
19	-11		2	clear	1000	1	4	clear	1		
20											

E99 —

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD: is JC22206-9
sim ms/msd is JC22206-9

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	4,2,7	73.2 73.6	0 5.0 2	75.2 73.8	NA
Waterbath Chiller (GPM)	V8, E2		—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617785	50	1

WITNESS SIGN: FA SPIKE SIGN: GM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	1619570	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	1619575	50	1
Base #2	1619574	50	1
Anilines	1619575	50	1
BSIM	1617206	1	1

WITNESS SIGN: FA SPIKE SIGN: GM

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162918	Fisher	6x60

REAGENT	LOT #	BRAND
NaOH	157941	Fisher
H2SO4	9605899	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	02912-2	Hach
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1744

ABN Aqueous Extraction Logbook

Date Started: 6/17/16 Time Started: 16:00
Date Finished: 6/17/16 Time Finished: 7:

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM_____
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 94859	RACK# A-1
Extracted by:	FA
Concentrated by:	FA, SD
Vialed by:	FA
Relinquished by:	FA
Accepted by:	
Supervisor Review:	6/17/16

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:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DIH2O	1000	1	4	clear	1		
	BS1			DIH2O	1000	1	4	yellow	1		
	JC22206-9 MS		3	yellow	1000	1	4	yellow	1		
	MSD		1	yellow	1000	1	4	yellow	1		
	BS	12SIM		DIH2O	1000	1	4	clear	1		
	JC22206-9 MS		8	yellow	1000	1	4	L-yellow	1		
	MSD		2	yellow	1000	1	4	L-yellow	1		
1	JC22270-1	ABN	2	clear	1000	1	4	L-yellow	1		
2	-2		1	orange	1000	1	4	yellow	1		
3	-3		1	yellow	1000	1	4	yellow	1		
4	-4		1	brown	1000	1	4	clear	1		
5	-5		1	clear	1000	1	4	clear	1		
6	-6		1	clear	1000	1	4	clear	1		
7	-7		2	clear	1000	1	4	clear	1		
8	-8		2	clear	1000	1	4	clear	1		
9	-9		2	clear	1000	1	4	clear	1		
10	-10		2	brown	1000	1	4	clear	1		
11	-11		1	clear	1000	1	4	clear	1		
12	JC22206-4		3	yellow	1000	1	4	L-yellow	1		
13	-5		3	yellow	1000	1	4	L-yellow	1		
14	-6		3	yellow	1000	1	4	clear	1		
15	-7		3	yellow	1000	1	4	clear	1		
16	-8		1	orange	1000	1	4	yellow	1		
17	-9		7	yellow	1000	1	4	clear	1		
18	-10		3	yellow	1000	1	4	yellow	1		
19	-11		2	clear	1000	1	4	clear	1		
20											

E99 —

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD: is JC22206-9
sim ms/msd is JC22206-9

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	4,2,7	73.2 73.6	0 5.0 2	73.5 73.7	NA
Waterbath Chiller (GPM)	VB, E2		—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	1617785	50	1

WITNESS SIGN: FA SPIKE SIGN: GM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	1619370	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	1619375	50	1
Base #2	1619374	50	1
Anilines	1619375	50	1
BSIM	1617206	1	1

WITNESS SIGN: FA SPIKE SIGN: GM

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162918	Fisher	6x60

REAGENT	LOT #	BRAND
NaOH	157941	Fisher
H2SO4	960899	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	02912-2	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

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LOGBOOK ID: 6-1748

ABN Aqueous Extraction Logbook

Date Started: 6/28/16 Time Started: 6:30am
Date Finished: 6/28/16 Time Finished: 11:00pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS 95160 RACK# A-12

Extracted by: RE, SD, YB
Concentrated by: SD, ADL
Vialed by: ADL
Relinquished by:
Accepted by:
Supervisor Review: 6/28/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	3,8	75.1, 75.7	-0.8, 0.1	74.75	NA
Waterbath Chiller (GPM)	2	5	–	–	2
NEVAP (32-38°C; LPM)	2	36.1	+0.1	36	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP16170 13	50	1

WITNESS SIGN: SD SPIKE SIGN: GM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV16 93588	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	SV16 93581	50	1
Base #2	SV16 93582	50	1
Anilines	SV16 93585	50	1
BSIM	OP16 17206	1	1

WITNESS SIGN: SD SPIKE SIGN: GM

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163534	FSN	6160

REAGENT	LOT #	BRAND
NaOH	157991	BRWN
H2SO4	4603499	Rem
Sodium Sulfate	157477	BRWN
Glass Wool	020n-2	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:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	5	clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC22702-8 MS		1	yellow	465	1	5	yellow	1		
	↓ MSD		1	yellow	465	1	5	yellow	1		
	BS	12SIM		DI H2O	1000	1	5	clear	1		
	JC22803-1 MS		1	yellow	455	1	5	clear	1		
	↓ MSD		1	yellow	455	1	5	clear	1		
1	JC22206-8 R(ABN)		3	orange	930	1	5	yellow	1		
2	JC22408-3 Rx		2	l.yellow	990	1	5	clear	1		
3	JC22702-2		1	clr	910	1	5	clear	1		
4	-3		1	pink	900	1	5	clear	1		
5	-4		1	clear	900	1	5	clear	1		
6	-5		2	yellow	910	1	5	clear	1		
7	-6		2	clear	950	1	5	clear	1		
8	-7		2	l.yellow	890	1	5	clear	1		
9	-8		2	yellow	990	1	5	clear	1		
10	-9		1	clear	900	1	5	clear	1		
11	-10		1	l.yellow	970	1	5	clear	1		
12	JC22803-1		2	yellow	990	1	5	clear	1		
13	-2		2	yellow	910	1	5	clear	1		
14	-3		2	yellow	990	1	5	clear	1		
15	JC22804-1		1	clear	970	1	5	clear	1		
16	-2		2	clear	1000	1	5	clear	1		
17	-3		2	l.yellow	990	1	5	clear	1		
18	-4		1	clear	1000	1	5	clear	1		
19	JC22805-1		2	l.yellow	1000	1	5	l.yellow	1		
20	JC22849-1		1	l.yellow	960	1	5	brown	1		

Comments: Okay to split MS/MSD & SIM MS/MSD, not enough bottles

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:
Rx - Low BS
- Low Surrogate

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:
split HT 6/29 (whole batch)

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1744

ABN Aqueous Extraction Logbook

Date Started: 06-30-16 Time Started: 1630AM
Date Finished: 06-30-16 Time Finished: 1400

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other_____ 3510C SIM √
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95225 RACK# D-18

Extracted by: EJC NA
Concentrated by: EJC
Vialed by: NA
Relinquished by:
Accepted by:
Supervisor Review: 6/30/16

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:

	Sample #	ABN SIM Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	4	Clear	1		
	BS1	SIM		DI H2O	1000	1	4	l. yellow	1		
	BSD1 ~~MS~~	1		DI H2O	1000	1	4	l. yellow	1		
	MSD										
	BS										
	MS										
	MSD										
1	JC22206-4	ABN	2	LT YELLOW	950	1	4	l. yellow	1		
2	-5	SIM	2	LT YELLOW	970	1	4	l. yellow	1		
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Comments: Acid A(SIM) AMT: 0.1 mL

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	75,76	0.8,0.1	74,76	NA
Waterbath Chiller (GPM)	F2	2	–	–	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177021	50	1

WITNESS SIGN: NA SPIKE SIGN: EJC

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193583	50	Acid:
Acid (for SIM)			A(SIM): EJC
Base #1			
Base #2			
Anilines			
BSIM	16177010	1	1

WITNESS SIGN: NA SPIKE SIGN: EJC

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163534	Fisher	60/60

REAGENT	LOT #	BRAND
NaOH	157991	Fisher
H2SO4	4603899	Ricca
Sodium Sulfate	157477	Fisher
Glass Wool	0220-2	LAB
Filter Paper		
pH strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: Contamination

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: SIM only

Post DK

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5324-MB1	GH105524.D	1	06/16/16	XPL	n/a	n/a	GGH5324

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-1, JC22206-2, JC22206-3, JC22206-4, JC22206-5

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	83%	56-145%
111-27-3	Hexanol	84%	56-145%

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5324-MB2	GH105534.D	1	06/16/16	XPL	n/a	n/a	GGH5324

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-6, JC22206-7, JC22206-8, JC22206-10, JC22206-11

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	83%	56-145%
111-27-3	Hexanol	85%	56-145%

Method Blank Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5328-MB1	GH105571.D	1	06/20/16	XPL	n/a	n/a	GGH5328

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-9

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	107%	56-145%
111-27-3	Hexanol	95%	56-145%

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5324-BS	GH105525.D	1	06/16/16	XPL	n/a	n/a	GGH5324

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-1, JC22206-2, JC22206-3, JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-10, JC22206-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4670	93	74-123
78-83-1	Isobutyl Alcohol	5000	4720	94	70-124
67-63-0	Isopropyl Alcohol	5000	4800	96	76-121
71-23-8	n-Propyl Alcohol	5000	4660	93	73-122
71-36-3	n-Butyl Alcohol	5000	4200	84	67-116
78-92-2	sec-Butyl Alcohol	5000	4910	98	74-118
67-56-1	Methanol	5000	4360	87	67-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	94%	56-145%
111-27-3	Hexanol	98%	56-145%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5328-BS	GH105572.D	1	06/20/16	XPL	n/a	n/a	GGH5328

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	4320	86	74-123
78-83-1	Isobutyl Alcohol	5000	4720	94	70-124
67-63-0	Isopropyl Alcohol	5000	4480	90	76-121
71-23-8	n-Propyl Alcohol	5000	4050	81	73-122
71-36-3	n-Butyl Alcohol	5000	4160	83	67-116
78-92-2	sec-Butyl Alcohol	5000	4940	99	74-118
67-56-1	Methanol	5000	4040	81	67-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	115%	56-145%
111-27-3	Hexanol	96%	56-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC22206-1MS	GH105527.D	1	06/16/16	XPL	n/a	n/a	GGH5324
JC22206-1MSD	GH105528.D	1	06/16/16	XPL	n/a	n/a	GGH5324
JC22206-1	GH105526.D	1	06/16/16	XPL	n/a	n/a	GGH5324

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-1, JC22206-2, JC22206-3, JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-10, JC22206-11

CAS No.	Compound	JC22206-1 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	5250	105	5000	5830	117	10	58-145/27
78-83-1	Isobutyl Alcohol	ND		5000	5780	116	5000	6000	120	4	69-131/25
67-63-0	Isopropyl Alcohol	ND		5000	5410	108	5000	5800	116	7	70-133/28
71-23-8	n-Propyl Alcohol	ND		5000	5420	108	5000	6010	120	10	66-137/29
71-36-3	n-Butyl Alcohol	ND		5000	5010	100	5000	5240	105	4	63-131/25
78-92-2	sec-Butyl Alcohol	ND		5000	5810	116	5000	5860	117	1	64-136/25
67-56-1	Methanol	ND		5000	4850	97	5000	5380	108	10	48-148/34

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-1	Limits
111-27-3	Hexanol	93%	99%	81%	56-145%
111-27-3	Hexanol	100%	109%	87%	56-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC22206-9MS	GH105574.D	1	06/20/16	XPL	n/a	n/a	GGH5328
JC22206-9MSD	GH105576.D	1	06/20/16	XPL	n/a	n/a	GGH5328
JC22206-9	GH105573.D	1	06/20/16	XPL	n/a	n/a	GGH5328

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC22206-9

CAS No.	Compound	JC22206-9 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	4990	100	5000	5600	112	12	58-145/27
78-83-1	Isobutyl Alcohol	ND		5000	5790	116	5000	5830	117	1	69-131/25
67-63-0	Isopropyl Alcohol	ND		5000	5190	104	5000	5650	113	8	70-133/28
71-23-8	n-Propyl Alcohol	ND		5000	5960	119	5000	5680	114	5	66-137/29
71-36-3	n-Butyl Alcohol	ND		5000	5090	102	5000	5100	102	0	63-131/25
78-92-2	sec-Butyl Alcohol	ND		5000	5780	116	5000	5830	117	1	64-136/25
67-56-1	Methanol	ND		5000	4150	83	5000	4840	97	15	48-148/34

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-9	Limits
111-27-3	Hexanol	101%	102%	96%	56-145%
111-27-3	Hexanol	99%	97%	92%	56-145%

* = Outside of Control Limits.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5324-CC5288	**Injection Date:**	06/16/16
Lab File ID:	GH105523.D	**Injection Time:**	12:13
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5324-BS	**Injection Date:**	06/16/16
Lab File ID:	GH105525.D	**Injection Time:**	12:46
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.45	5080		ug/l	8.4
Ethanol	2 [a]	1.14	1.14	4670		ug/l	
Isobutyl Alcohol	1	3.31	3.30	5000		ug/l	5.8
Isobutyl Alcohol	2 [a]	2.92	2.92	4720		ug/l	
Isopropyl Alcohol	1	1.75	1.75	5190		ug/l	7.8
Isopropyl Alcohol	2 [a]	1.39	1.39	4800		ug/l	
n-Propyl Alcohol	1 [a]	2.51	2.51	4660		ug/l	2.8
n-Propyl Alcohol	2	1.97	1.97	4790		ug/l	
n-Butyl Alcohol	1	3.75	3.75	4680		ug/l	10.8
n-Butyl Alcohol	2 [a]	3.39	3.39	4200		ug/l	
sec-Butyl Alcohol	1	2.94	2.94	5120		ug/l	4.2
sec-Butyl Alcohol	2 [a]	2.55	2.54	4910		ug/l	
Methanol	1	1.12	1.12	4830		ug/l	10.2
Methanol	2 [a]	0.88	0.88	4360		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5327-CC5288	**Injection Date:**	06/20/16
Lab File ID:	GH105570.D	**Injection Time:**	12:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5328-BS	**Injection Date:**	06/20/16
Lab File ID:	GH105572.D	**Injection Time:**	13:39
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.46	1.46	4850		ug/l	11.6
Ethanol	2 [a]	1.17	1.17	4320		ug/l	
Isobutyl Alcohol	1	3.32	3.32	4830		ug/l	2.3
Isobutyl Alcohol	2 [a]	2.96	2.97	4720		ug/l	
Isopropyl Alcohol	1	1.76	1.76	4970		ug/l	10.4
Isopropyl Alcohol	2 [a]	1.43	1.43	4480		ug/l	
n-Propyl Alcohol	1	2.52	2.52	5160		ug/l	24.1
n-Propyl Alcohol	2 [a]	2.02	2.03	4050		ug/l	
n-Butyl Alcohol	1	3.77	3.77	4700		ug/l	12.2
n-Butyl Alcohol	2 [a]	3.44	3.44	4160		ug/l	
sec-Butyl Alcohol	1 [a]	2.95	2.95	4940		ug/l	1.0
sec-Butyl Alcohol	2	2.60	2.60	4990		ug/l	
Methanol	1	1.13	1.13	5290		ug/l	26.8
Methanol	2 [a]	0.91	0.91	4040		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5324-CC5288	**Injection Date:**	06/16/16
Lab File ID:	GH105523.D	**Injection Time:**	12:13
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC22206-1MS	**Injection Date:**	06/16/16
Lab File ID:	GH105527.D	**Injection Time:**	13:19
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.45	5640		ug/l	7.2
Ethanol	2 [a]	1.13	1.14	5250		ug/l	
Isobutyl Alcohol	1	3.31	3.30	6260		ug/l	8.0
Isobutyl Alcohol	2 [a]	2.92	2.92	5780		ug/l	
Isopropyl Alcohol	1	1.75	1.75	6190		ug/l	13.4
Isopropyl Alcohol	2 [a]	1.39	1.39	5410		ug/l	
n-Propyl Alcohol	1	2.51	2.51	6400		ug/l	16.6
n-Propyl Alcohol	2 [a]	1.97	1.97	5420		ug/l	
n-Butyl Alcohol	1	3.75	3.75	5990		ug/l	17.8
n-Butyl Alcohol	2 [a]	3.39	3.39	5010		ug/l	
sec-Butyl Alcohol	1	2.94	2.94	6130		ug/l	5.4
sec-Butyl Alcohol	2 [a]	2.55	2.54	5810		ug/l	
Methanol	1	1.12	1.12	4940		ug/l	1.8
Methanol	2 [a]	0.88	0.88	4850		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5327-CC5288	**Injection Date:**	06/20/16
Lab File ID:	GH105570.D	**Injection Time:**	12:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC22206-9MS	**Injection Date:**	06/20/16
Lab File ID:	GH105574.D	**Injection Time:**	14:12
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.46	1.46	5450		ug/l	8.8
Ethanol	2 [a]	1.17	1.17	4990		ug/l	
Isobutyl Alcohol	1	3.32	3.32	5990		ug/l	3.4
Isobutyl Alcohol	2 [a]	2.97	2.97	5790		ug/l	
Isopropyl Alcohol	1	1.76	1.76	5430		ug/l	4.5
Isopropyl Alcohol	2 [a]	1.43	1.43	5190		ug/l	
n-Propyl Alcohol	1	2.52	2.52	5920		ug/l	0.7
n-Propyl Alcohol	2 [a]	2.03	2.03	5960		ug/l	
n-Butyl Alcohol	1	3.76	3.77	5390		ug/l	5.7
n-Butyl Alcohol	2 [a]	3.44	3.44	5090		ug/l	
sec-Butyl Alcohol	1	2.95	2.95	5710		ug/l	1.2
sec-Butyl Alcohol	2 [a]	2.60	2.60	5780		ug/l	
Methanol	1	1.13	1.13	4530		ug/l	8.8
Methanol	2 [a]	0.92	0.91	4150		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5324-CC5288	**Injection Date:**	06/16/16
Lab File ID:	GH105523.D	**Injection Time:**	12:13
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC22206-1MSD	**Injection Date:**	06/16/16
Lab File ID:	GH105528.D	**Injection Time:**	13:35
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.45	5770		ug/l	1.0
Ethanol	2 [a]	1.14	1.14	5830		ug/l	
Isobutyl Alcohol	1	3.31	3.30	6460		ug/l	7.4
Isobutyl Alcohol	2 [a]	2.92	2.92	6000		ug/l	
Isopropyl Alcohol	1	1.75	1.75	5840		ug/l	0.7
Isopropyl Alcohol	2 [a]	1.39	1.39	5800		ug/l	
n-Propyl Alcohol	1	2.51	2.51	6080		ug/l	1.2
n-Propyl Alcohol	2 [a]	1.97	1.97	6010		ug/l	
n-Butyl Alcohol	1	3.75	3.75	5600		ug/l	6.6
n-Butyl Alcohol	2 [a]	3.39	3.39	5240		ug/l	
sec-Butyl Alcohol	1	2.94	2.94	6170		ug/l	5.2
sec-Butyl Alcohol	2 [a]	2.54	2.54	5860		ug/l	
Methanol	1	1.12	1.12	4830		ug/l	10.8
Methanol	2 [a]	0.88	0.88	5380		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5327-CC5288	**Injection Date:**	06/20/16
Lab File ID:	GH105570.D	**Injection Time:**	12:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC22206-9MSD	**Injection Date:**	06/20/16
Lab File ID:	GH105576.D	**Injection Time:**	15:07
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.46	1.46	5150		ug/l	8.4
Ethanol	2 [a]	1.17	1.17	5600		ug/l	
Isobutyl Alcohol	1	3.31	3.32	5800		ug/l	0.5
Isobutyl Alcohol	2 [a]	2.96	2.97	5830		ug/l	
Isopropyl Alcohol	1	1.76	1.76	5120		ug/l	9.8
Isopropyl Alcohol	2 [a]	1.42	1.43	5650		ug/l	
n-Propyl Alcohol	1	2.51	2.52	5620		ug/l	1.1
n-Propyl Alcohol	2 [a]	2.02	2.03	5680		ug/l	
n-Butyl Alcohol	1	3.77	3.77	5170		ug/l	1.4
n-Butyl Alcohol	2 [a]	3.44	3.44	5100		ug/l	
sec-Butyl Alcohol	1	2.93	2.95	5590		ug/l	4.2
sec-Butyl Alcohol	2 [a]	2.59	2.60	5830		ug/l	
Methanol	1	1.13	1.13	4600		ug/l	5.1
Methanol	2 [a]	0.91	0.91	4840		ug/l	

(a) QC results reported from this column.

Volatile Surrogate Recovery Summary

Job Number: JC22206
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]	S1 [b]
JC22206-1	GH105526.D	81	87
JC22206-2	GH105529.D	101	109
JC22206-3	GH105530.D	102	109
JC22206-4	GH105531.D	105	111
JC22206-5	GH105532.D	108	117
JC22206-6	GH105535.D	104	107
JC22206-7	GH105536.D	106	115
JC22206-8	GH105537.D	96	128
JC22206-9	GH105573.D	96	92
JC22206-10	GH105539.D	102	112
JC22206-11	GH105540.D	103	110
GGH5324-BS	GH105525.D	94	98
GGH5324-MB1	GH105524.D	83	84
GGH5324-MB2	GH105534.D	83	85
GGH5328-BS	GH105572.D	115	96
GGH5328-MB1	GH105571.D	107	95
JC22206-1MS	GH105527.D	93	100
JC22206-1MSD	GH105528.D	99	109
JC22206-9MS	GH105574.D	101	99
JC22206-9MSD	GH105576.D	102	97

Surrogate Compounds	Recovery Limits
S1 = Hexanol	56-145%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

8.5.1

8

GC Surrogate Retention Time Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5324-CC5288	**Injection Date:**	06/16/16
Lab File ID:	GH105523.D	**Injection Time:**	12:13
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.44	5.56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5324-MB1	GH105524.D	06/16/16	12:29	5.44	5.57
GGH5324-BS	GH105525.D	06/16/16	12:46	5.44	5.57
JC22206-1	GH105526.D	06/16/16	13:02	5.44	5.57
JC22206-1MS	GH105527.D	06/16/16	13:19	5.44	5.57
JC22206-1MSD	GH105528.D	06/16/16	13:35	5.44	5.57
JC22206-2	GH105529.D	06/16/16	13:51	5.44	5.57
JC22206-3	GH105530.D	06/16/16	14:07	5.44	5.57
JC22206-4	GH105531.D	06/16/16	14:24	5.44	5.57
JC22206-5	GH105532.D	06/16/16	14:40	5.44	5.57

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5324-CC5288	**Injection Date:**	06/16/16
Lab File ID:	GH105533.D	**Injection Time:**	14:56
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.44	5.56

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5324-MB2	GH105534.D	06/16/16	15:13	5.44	5.57
JC22206-6	GH105535.D	06/16/16	15:29	5.44	5.57
JC22206-7	GH105536.D	06/16/16	15:46	5.44	5.57
JC22206-8	GH105537.D	06/16/16	16:02	5.44	5.57
JC22206-10	GH105539.D	06/16/16	16:35	5.46	5.57
JC22206-11	GH105540.D	06/16/16	16:51	5.44	5.57
ZZZZZZ	GH105541.D	06/16/16	17:08	5.44	5.58
ZZZZZZ	GH105542.D	06/16/16	17:24	5.43	5.57

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5327-CC5288	**Injection Date:**	06/20/16
Lab File ID:	GH105570.D	**Injection Time:**	12:50
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.47	5.58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5328-MB1	GH105571.D	06/20/16	13:23	5.46	5.59
GGH5328-BS	GH105572.D	06/20/16	13:39	5.46	5.59
JC22206-9	GH105573.D	06/20/16	13:56	5.46	5.57
JC22206-9MS	GH105574.D	06/20/16	14:12	5.46	5.57
JC22206-9MSD	GH105576.D	06/20/16	15:07	5.46	5.58

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC22206 **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: JC22206 **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: JC22206 **Sample:** GGH5324-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105523.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105523.D\FID1A.CH        Vial: 92
Acq On    : 16 Jun 2016  12:13 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105523.D\FID2B.CH        Vial: 92
Acq On    : 16 Jun 2016  12:29 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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	14.087	8.9	91	0.00	1.09- 1.15
2	Ethanol	18.950	19.642	-3.7	99	0.00	1.40- 1.50
3	Tert-Butyl Alcohol	28.335	29.969	-5.8	105	0.00	1.95- 2.07
4	1-Propanol	24.326	25.829	-6.2	101	0.00	2.45- 2.57
5	2-Propanol	19.931	21.521	-8.0	102	0.00	1.70- 1.79
6	Isobutanol	28.771	26.938	6.4	91	0.00	3.26- 3.35
7	1-Butanol	28.561	28.182	1.3	98	0.00	3.72- 3.78
8	2-Butanol	25.634	25.959	-1.3	100	0.00	2.88- 3.00
9 S	Hexanol	67.597	72.747	-7.6	105	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	30.872	4.3	89	0.00	0.85- 0.91
2	Ethanol	39.861	40.723	-2.2	94	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	65.994	-3.8	99	0.00	1.60- 1.66
4	1-Propanol	50.842	51.223	-0.7	93	0.00	1.94- 2.01
5	2-Propanol	45.279	44.627	1.4	94	0.00	1.36- 1.42
6	Isobutanol	61.221	56.525	7.7	91	0.00	2.89- 2.95
7	1-Butanol	66.170	55.678	15.9	87	0.00	3.36- 3.42
8	2-Butanol	54.284	53.025	2.3	94	0.00	2.51- 2.57
9 S	Hexanol	155.348	159.066	-2.4	100	0.00	5.41- 5.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Fri Jun 17 10:10:01 2016 GCGH

Continuing Calibration Summary

Job Number: JC22206 **Sample:** GGH5324-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105533.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH        Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH        Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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	16.906	-9.4	107	0.00	1.09- 1.15
2	Ethanol	18.950	21.358	-12.7	105	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	31.026	-9.5	105	0.00	1.96- 2.08
4	1-Propanol	24.326	28.108	-15.5	109	0.00	2.45- 2.57
5	2-Propanol	19.931	22.448	-12.6	105	0.00	1.70- 1.80
6	Isobutanol	28.771	31.072	-8.0	104	0.00	3.26- 3.36
7	1-Butanol	28.561	29.813	-4.4	103	0.00	3.72- 3.78
8	2-Butanol	25.634	28.126	-9.7	107	0.00	2.88- 3.00
9 S	Hexanol	67.597	68.458	-1.3	96	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	33.342	-3.4	96	0.00	0.86- 0.92
2	Ethanol	39.861	40.260	-1.0	93	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	69.612	-9.5	105	0.00	1.60- 1.66
4	1-Propanol	50.842	52.747	-3.7	96	0.00	1.94- 2.01
5	2-Propanol	45.279	48.065	-6.2	102	0.00	1.36- 1.42
6	Isobutanol	61.221	58.824	3.9	93	0.00	2.88- 2.94
7	1-Butanol	66.170	58.406	11.7	97	0.00	3.36- 3.42
8	2-Butanol	54.284	54.404	-0.2	96	0.00	2.52- 2.58
9 S	Hexanol	155.348	145.754	6.2	90	0.00	5.41- 5.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Fri Jun 17 10:24:01 2016 GCGH

Continuing Calibration Summary

Job Number: JC22206 **Sample:** GGH5324-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105543.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105543.D\FID1A.CH        Vial: 95
Acq On    : 16 Jun 2016   5:41 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48618,GGH5324,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105543.D\FID2B.CH        Vial: 95
Acq On    : 16 Jun 2016   5:57 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48618,GGH5324,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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	15.393	0.4	99	0.00	1.09- 1.15
2	Ethanol	18.950	19.492	-2.9	98	0.00	1.40- 1.50
3	Tert-Butyl Alcohol	28.335	28.836	-1.8	101	0.00	1.95- 2.07
4	1-Propanol	24.326	25.944	-6.7	101	0.00	2.44- 2.56
5	2-Propanol	19.931	20.462	-2.7	97	0.00	1.70- 1.79
6	Isobutanol	28.771	28.840	-0.2	98	0.00	3.25- 3.34
7	1-Butanol	28.561	25.972	9.1	91	0.00	3.73- 3.79
8	2-Butanol	25.634	26.340	-2.8	102	0.00	2.87- 2.99
9 S	Hexanol	67.597	69.285	-2.5	100	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	28.061	13.0	81	0.00	0.86- 0.92
2	Ethanol	39.861	42.603	-6.9	98	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	69.407	-9.2	105	0.00	1.60- 1.66
4	1-Propanol	50.842	46.539	8.5	85	0.00	1.95- 2.02
5	2-Propanol	45.279	50.971	-12.6	108	0.00	1.36- 1.42
6	Isobutanol	61.221	51.132	16.5	82	0.00	2.89- 2.95
7	1-Butanol	66.170	56.349	14.8	88	0.00	3.37- 3.43
8	2-Butanol	54.284	47.010	13.4	84	0.00	2.52- 2.58
9 S	Hexanol	155.348	157.388	-1.3	99	0.00	5.41- 5.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Fri Jun 17 10:28:51 2016 GCGH

Continuing Calibration Summary

Job Number: JC22206 **Sample:** GGH5327-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105570.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105570.D\FID1A.CH        Vial: 95
Acq On    : 20 Jun 2016  12:50 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48626,GGH5327,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105570.D\FID2B.CH        Vial: 95
Acq On    : 20 Jun 2016   1:06 pm                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48626,GGH5327,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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	15.919	-3.0	101	0.00	1.10- 1.16
2	Ethanol	18.950	19.940	-5.2	98	0.00	1.42- 1.51
3	Tert-Butyl Alcohol	28.335	29.614	-4.5	100	0.00	1.97- 2.09
4	1-Propanol	24.326	26.478	-8.8	103	0.00	2.46- 2.58
5	2-Propanol	19.931	20.914	-4.9	98	0.00	1.71- 1.81
6	Isobutanol	28.771	29.435	-2.3	99	0.00	3.27- 3.36
7	1-Butanol	28.561	28.118	1.6	97	0.00	3.74- 3.80
8	2-Butanol	25.634	26.442	-3.2	101	0.00	2.89- 3.01
9 S	Hexanol	67.597	63.951	5.4	90	0.00	5.55- 5.61
*****	Signal #2 *****						
1	Methanol	32.254	35.181	-9.1	102	0.00	0.88- 0.94
2	Ethanol	39.861	43.802	-9.9	101	0.00	1.14- 1.20
3	Tert-Butyl Alcohol	63.583	71.077	-11.8	107	0.00	1.64- 1.70
4	1-Propanol	50.842	55.944	-10.0	102	0.00	1.99- 2.06
5	2-Propanol	45.279	48.597	-7.3	103	0.00	1.40- 1.46
6	Isobutanol	61.221	60.466	1.2	96	0.00	2.94- 3.00
7	1-Butanol	66.170	59.005	10.8	98	0.00	3.41- 3.47
8	2-Butanol	54.284	57.283	-5.5	101	0.00	2.57- 2.63
9 S	Hexanol	155.348	158.482	-2.0	97	0.00	5.44- 5.50

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Mon Jun 20 13:34:24 2016 GCGH

Continuing Calibration Summary

Job Number: JC22206 **Sample:** GGH5328-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105577.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105577.D\FID1A.CH        Vial: 25
Acq On    : 20 Jun 2016   3:40 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105577.D\FID2B.CH        Vial: 25
Acq On    : 20 Jun 2016   3:56 pm                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 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	15.780	-2.1	102	0.00	1.10- 1.16
2	Ethanol	18.950	19.506	-2.9	98	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	28.621	-1.0	100	0.00	1.96- 2.08
4	1-Propanol	24.326	26.217	-7.8	102	0.00	2.45- 2.57
5	2-Propanol	19.931	19.420	2.6	92	0.00	1.71- 1.80
6	Isobutanol	28.771	31.736	-10.3	108	0.00	3.26- 3.36
7	1-Butanol	28.561	27.025	5.4	94	0.00	3.73- 3.79
8	2-Butanol	25.634	24.952	2.7	96	0.00	2.88- 3.00
9 S	Hexanol	67.597	67.709	-0.2	98	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	33.331	-3.3	96	0.00	0.87- 0.93
2	Ethanol	39.861	40.764	-2.3	94	0.00	1.13- 1.19
3	Tert-Butyl Alcohol	63.583	66.161	-4.1	100	0.00	1.64- 1.70
4	1-Propanol	50.842	52.397	-3.1	95	0.00	1.99- 2.06
5	2-Propanol	45.279	46.145	-1.9	97	0.00	1.39- 1.45
6	Isobutanol	61.221	59.845	2.2	96	0.00	2.94- 3.00
7	1-Butanol	66.170	56.790	14.2	89	0.00	3.41- 3.47
8	2-Butanol	54.284	54.230	0.1	97	0.00	2.56- 2.62
9 S	Hexanol	155.348	156.716	-0.9	99	0.00	5.43- 5.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Tue Jun 21 08:12:31 2016 GCGH

8.7.7

8

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105526.D\FID1A.CH          Vial: 20
Acq On    : 16 Jun 2016   1:02 pm                     Operator: XULIU
Sample    : JC22206-1                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105526.D\FID2B.CH          Vial: 20
Acq On    : 16 Jun 2016   1:19 pm                     Operator: XULIU
Sample    : JC22206-1                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:39 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    293627   630021 4343.808  4055.561
 Spiked Amount   5000.000                  Recovery     =   86.88%    81.11%

Target Compounds
```

9.1.1

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105526.D  MGH5288.M      Fri Jun 17 10:12:40 2016      GCGH
```


SGS ACCUTEST JC22206

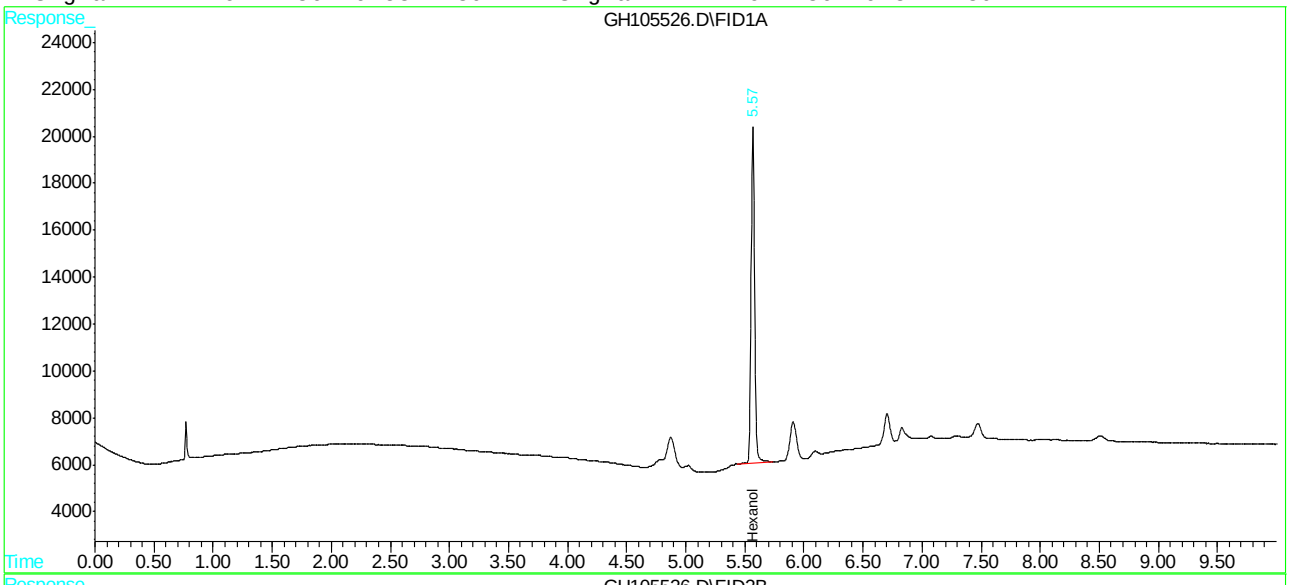
Quantitation Report (QT Reviewed)

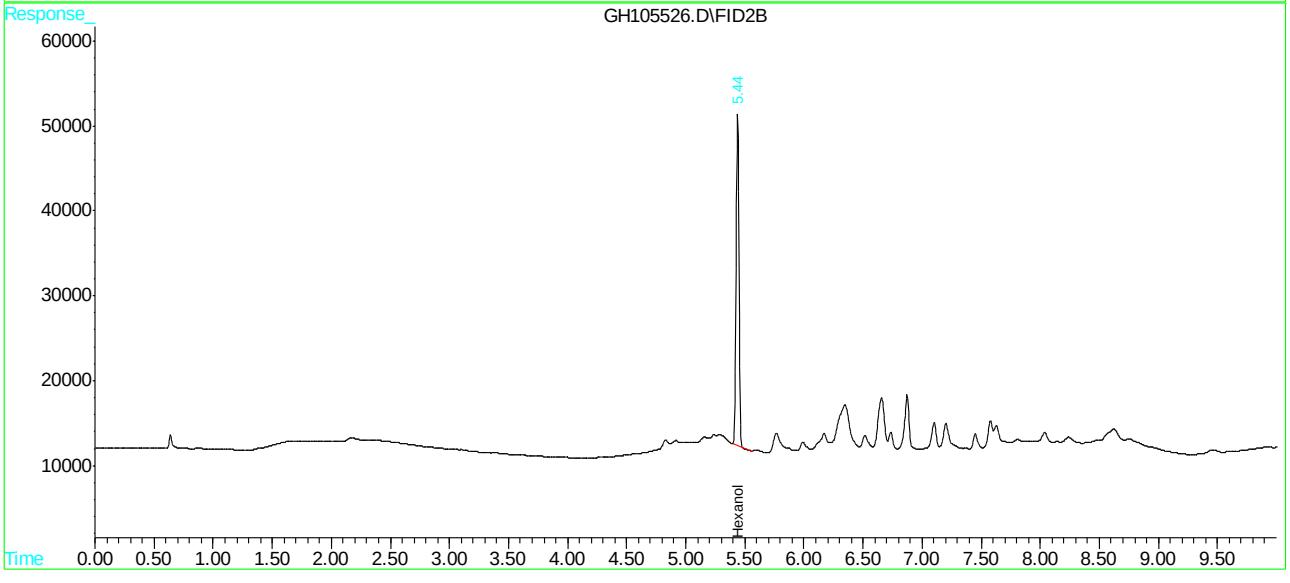
```
Data File : C:\HPCHEM\1\DATA\GH105526.D\FID1A.CH          Vial: 20
Acq On    : 16 Jun 2016   1:02 pm                     Operator: XULIU
Sample    : JC22206-1                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105526.D\FID2B.CH          Vial: 20
Acq On    : 16 Jun 2016   1:19 pm                     Operator: XULIU
Sample    : JC22206-1                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:39 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105529.D\FID1A.CH          Vial: 23
Acq On    : 16 Jun 2016   1:51 pm                     Operator: XULIU
Sample    : JC22206-2                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105529.D\FID2B.CH          Vial: 23
Acq On    : 16 Jun 2016   2:07 pm                     Operator: XULIU
Sample    : JC22206-2                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:14 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    367764   787426 5440.566  5068.805
 Spiked Amount   5000.000                  Recovery     =  108.81%   101.38%

Target Compounds
```

9.1.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105529.D  MGH5288.M      Fri Jun 17 10:14:07 2016      GCGH
```

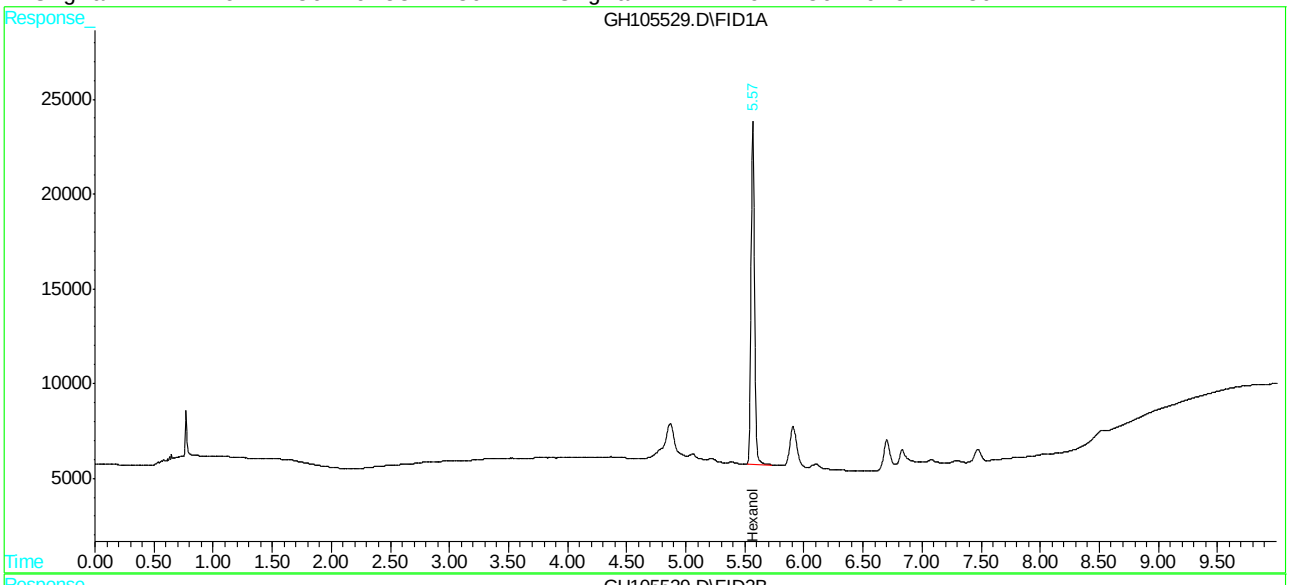
Quantitation Report (QT Reviewed)

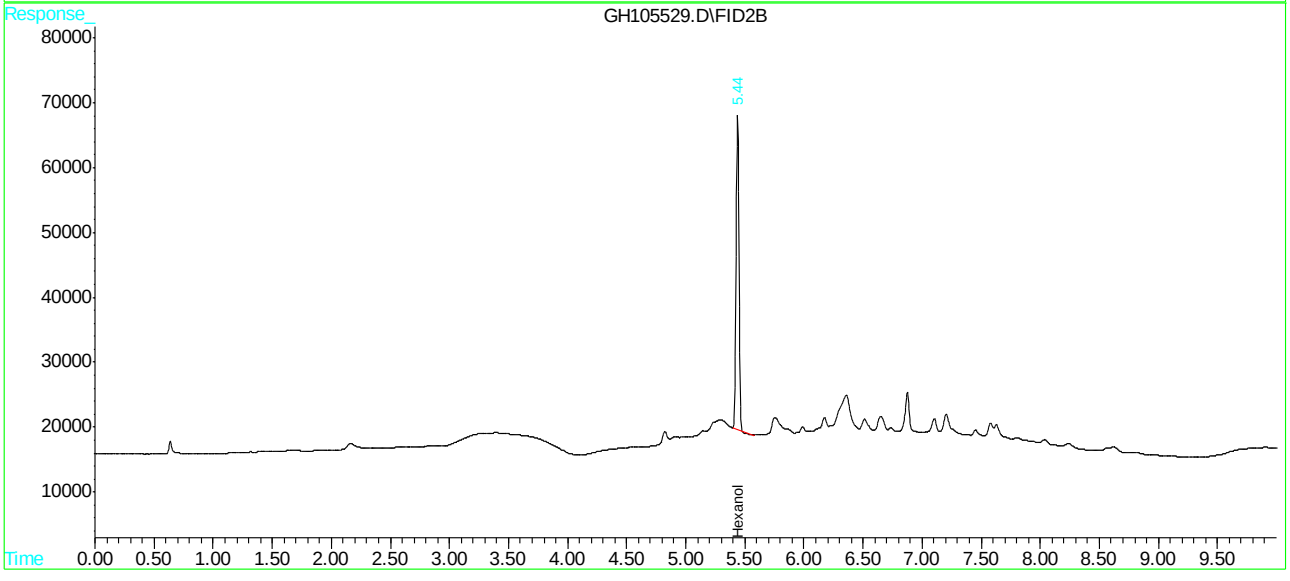
```
Data File : C:\HPCHEM\1\DATA\GH105529.D\FID1A.CH          Vial: 23
Acq On    : 16 Jun 2016   1:51 pm                     Operator: XULIU
Sample    : JC22206-2                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105529.D\FID2B.CH          Vial: 23
Acq On    : 16 Jun 2016   2:07 pm                     Operator: XULIU
Sample    : JC22206-2                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:14 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105530.D\FID1A.CH          Vial: 24
Acq On    : 16 Jun 2016   2:07 pm                     Operator: XULIU
Sample    : JC22206-3                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105530.D\FID2B.CH          Vial: 24
Acq On    : 16 Jun 2016   2:24 pm                     Operator: XULIU
Sample    : JC22206-3                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:14 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    367101   793023 5430.757  5104.831
 Spiked Amount   5000.000                  Recovery     =  108.62%   102.10%

Target Compounds
```

9.1.3

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105530.D  MGH5288.M      Fri Jun 17 10:14:27 2016      GCGH
```

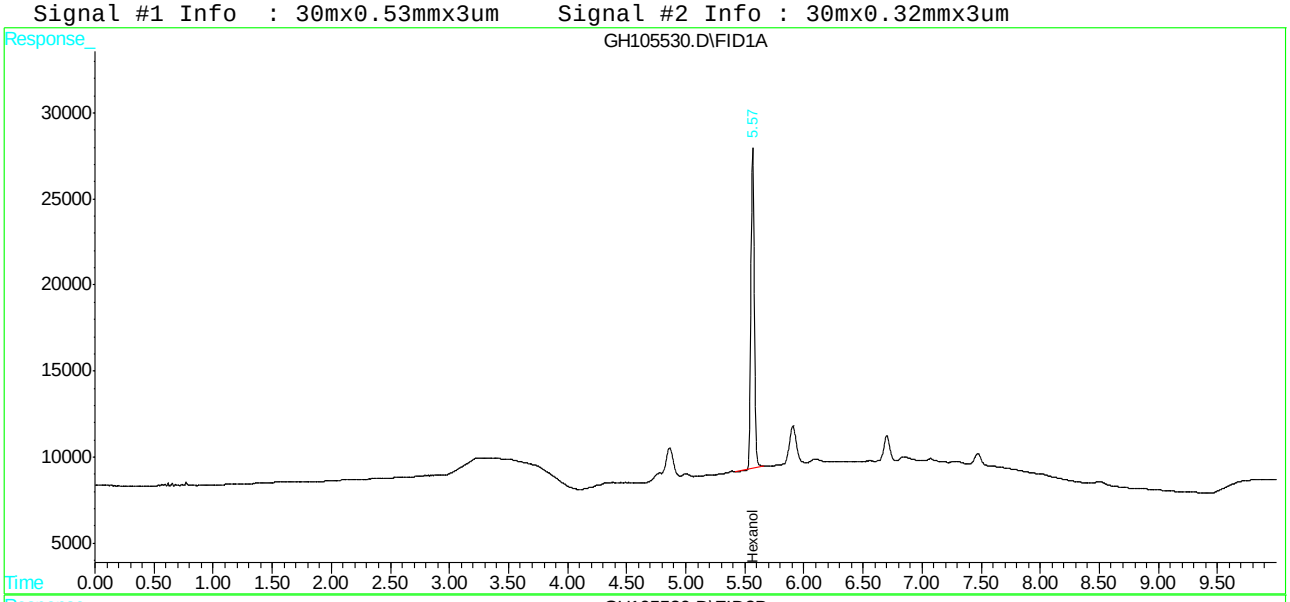
Quantitation Report (QT Reviewed)

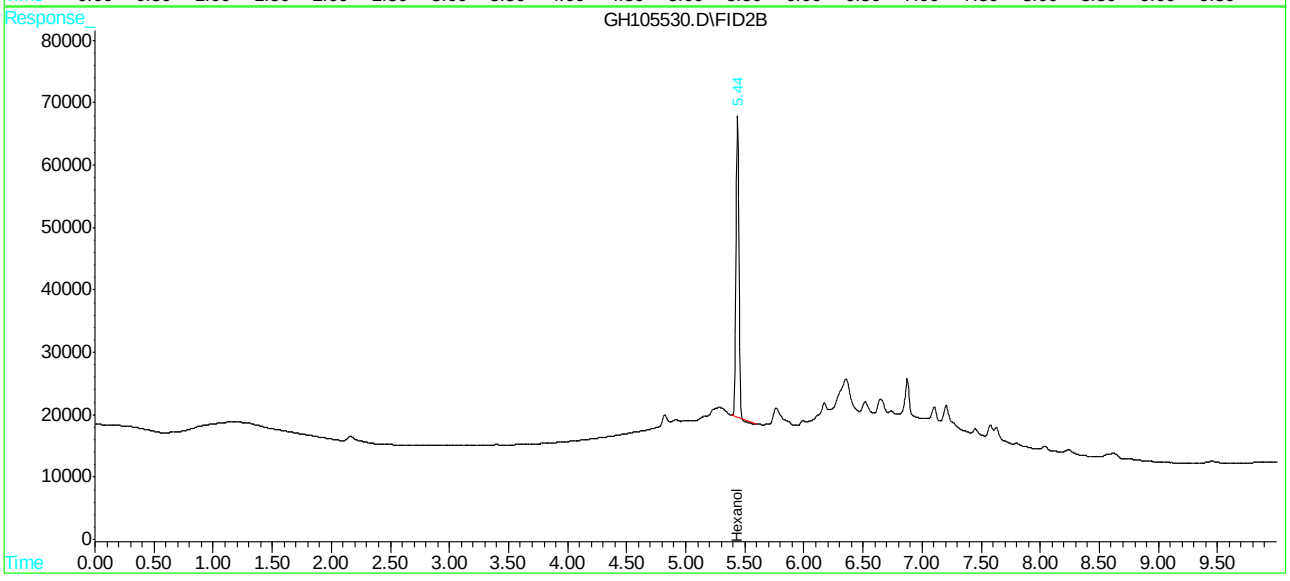
```
Data File : C:\HPCHEM\1\DATA\GH105530.D\FID1A.CH          Vial: 24
Acq On    : 16 Jun 2016   2:07 pm                     Operator: XULIU
Sample    : JC22206-3                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105530.D\FID2B.CH          Vial: 24
Acq On    : 16 Jun 2016   2:24 pm                     Operator: XULIU
Sample    : JC22206-3                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:14 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105531.D\FID1A.CH          Vial: 25
Acq On    : 16 Jun 2016   2:24 pm                     Operator: XULIU
Sample    : JC22206-4                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105531.D\FID2B.CH          Vial: 25
Acq On    : 16 Jun 2016   2:40 pm                     Operator: XULIU
Sample    : JC22206-4                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:40 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    374052   813869 5533.591  5239.021
 Spiked Amount   5000.000                  Recovery     =  110.67%   104.78%

Target Compounds
```

9.1.4

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105531.D  MGH5288.M      Fri Jun 17 10:14:44 2016      GCGH
```

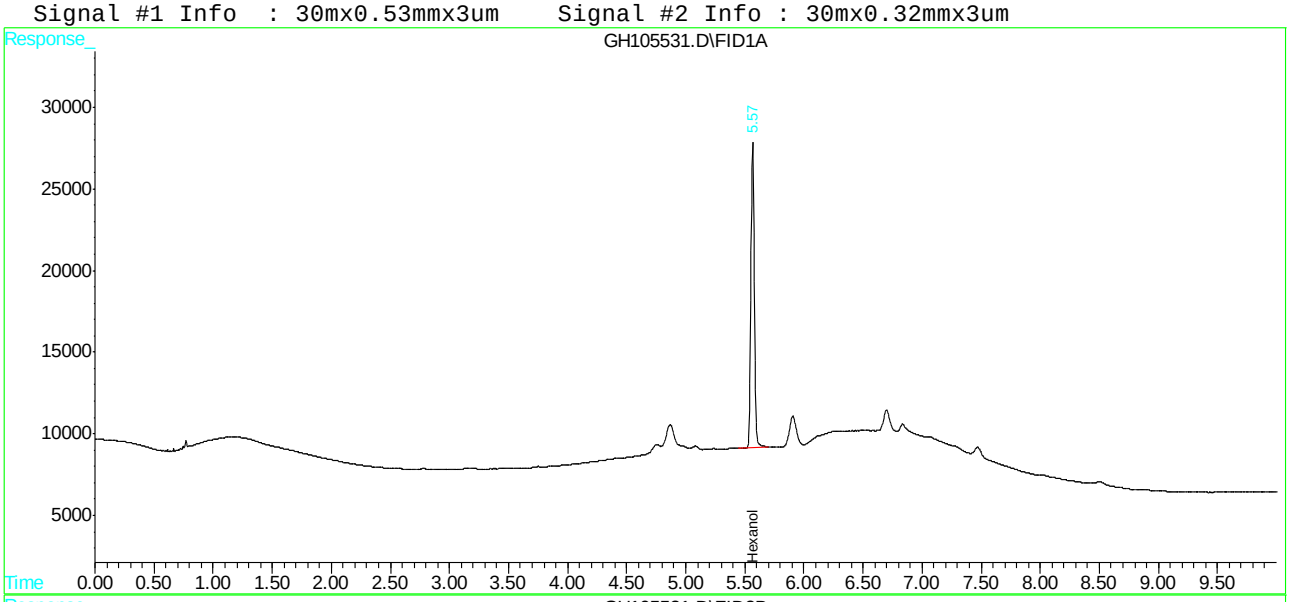
Quantitation Report (QT Reviewed)

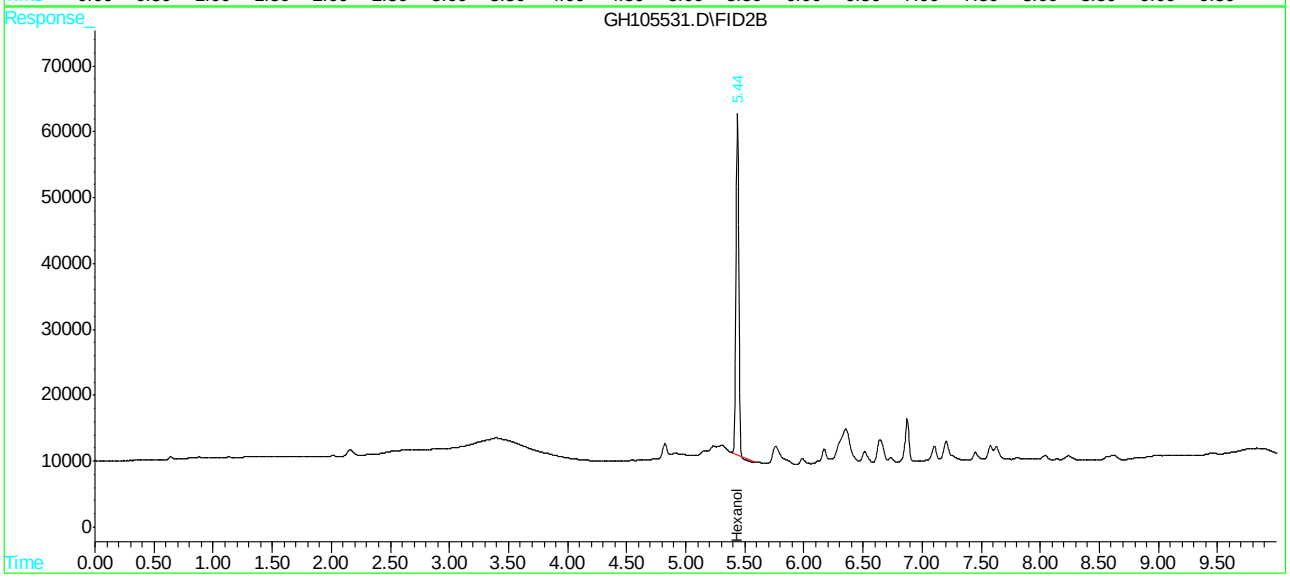
```
Data File : C:\HPCHEM\1\DATA\GH105531.D\FID1A.CH          Vial: 25
Acq On    : 16 Jun 2016   2:24 pm                     Operator: XULIU
Sample    : JC22206-4                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105531.D\FID2B.CH          Vial: 25
Acq On    : 16 Jun 2016   2:40 pm                     Operator: XULIU
Sample    : JC22206-4                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:40 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105532.D\FID1A.CH          Vial: 26
Acq On    : 16 Jun 2016   2:40 pm                     Operator: XULIU
Sample    : JC22206-5                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105532.D\FID2B.CH          Vial: 26
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : JC22206-5                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:41 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    395261   841374 5847.344  5416.073
 Spiked Amount   5000.000                  Recovery     =  116.95%   108.32%

Target Compounds
```

9.1.5

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105532.D  MGH5288.M      Fri Jun 17 10:15:01 2016      GCGH
```

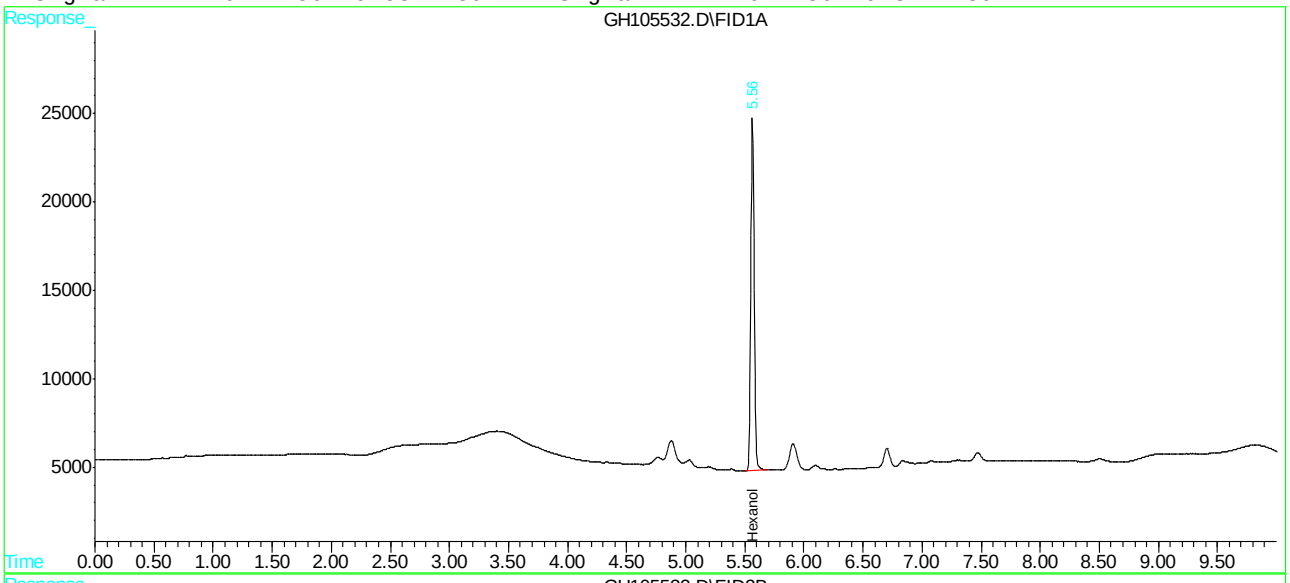
Quantitation Report (QT Reviewed)

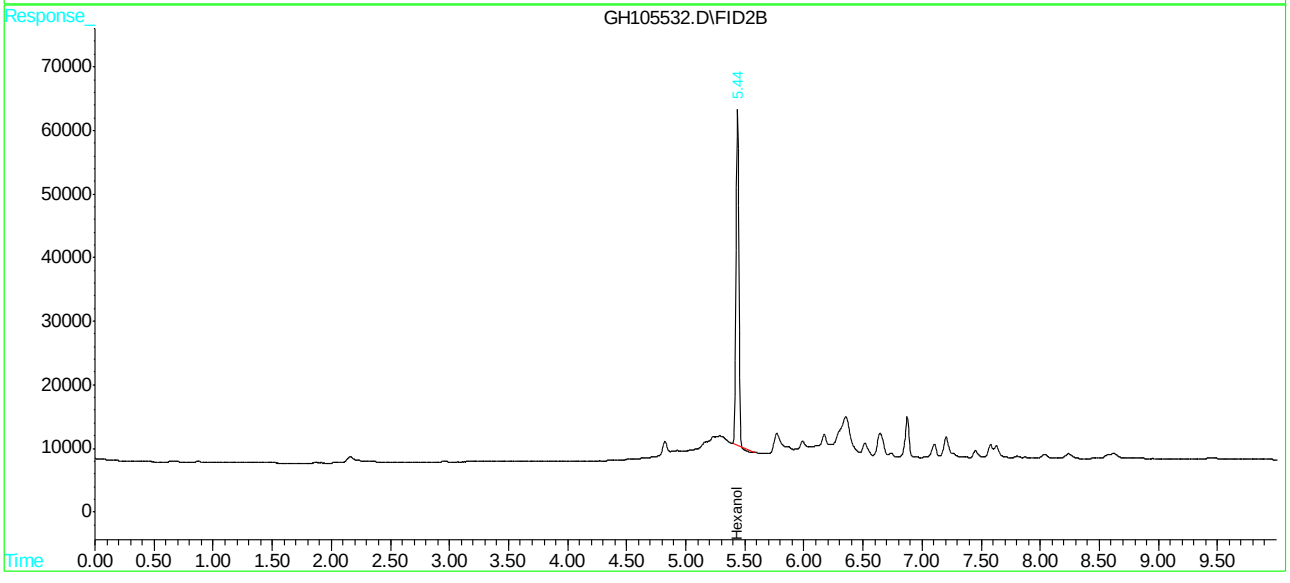
Data File : C:\HPCHEM\1\DATA\GH105532.D\FID1A.CH Vial: 26
Acq On : 16 Jun 2016 2:40 pm Operator: XULIU
Sample : JC22206-5 Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105532.D\FID2B.CH Vial: 26
Acq On : 16 Jun 2016 2:56 pm Operator: XULIU
Sample : JC22206-5 Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 17 9:41 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Fri Jun 17 09:25:27 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\GH105535.D\FID1A.CH          Vial: 1
Acq On    : 16 Jun 2016   3:29 pm                     Operator: XULIU
Sample    : JC22206-6                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105535.D\FID2B.CH          Vial: 1
Acq On    : 16 Jun 2016   3:46 pm                     Operator: XULIU
Sample    : JC22206-6                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:42 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    361953   805461 5354.591  5184.894
 Spiked Amount   5000.000                  Recovery     =  107.09%   103.70%

Target Compounds
```

9.1.6

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105535.D  MGH5288.M      Fri Jun 17 10:24:37 2016      GCGH
```


SGS ACCUTEST JC22206

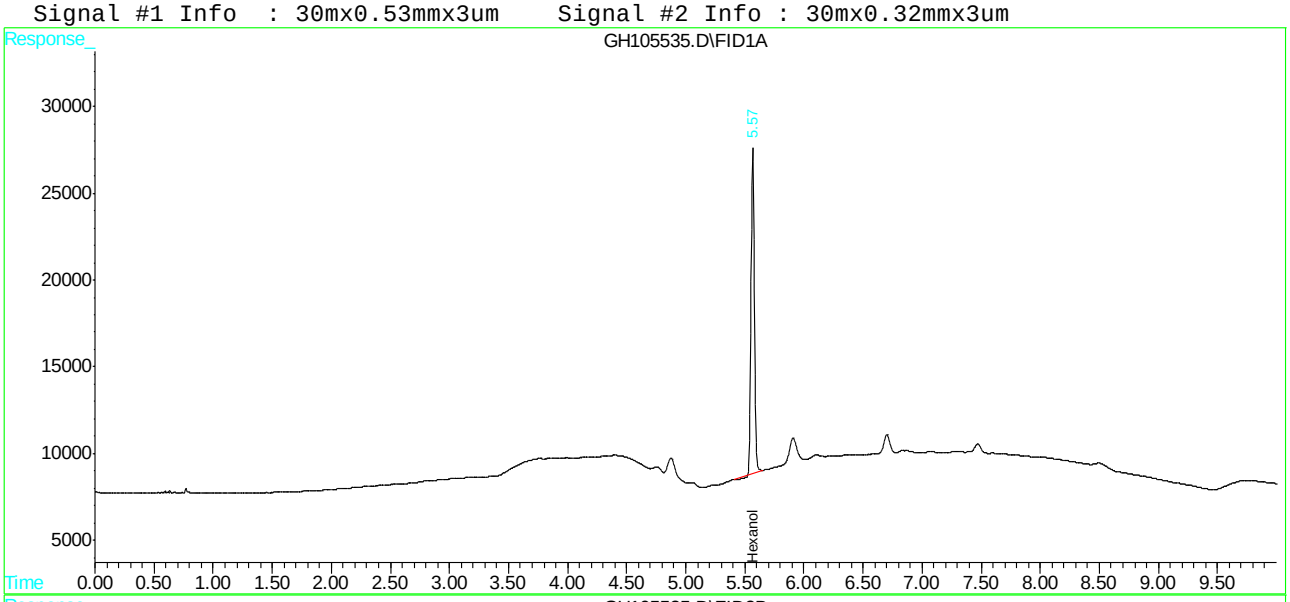
Quantitation Report (QT Reviewed)

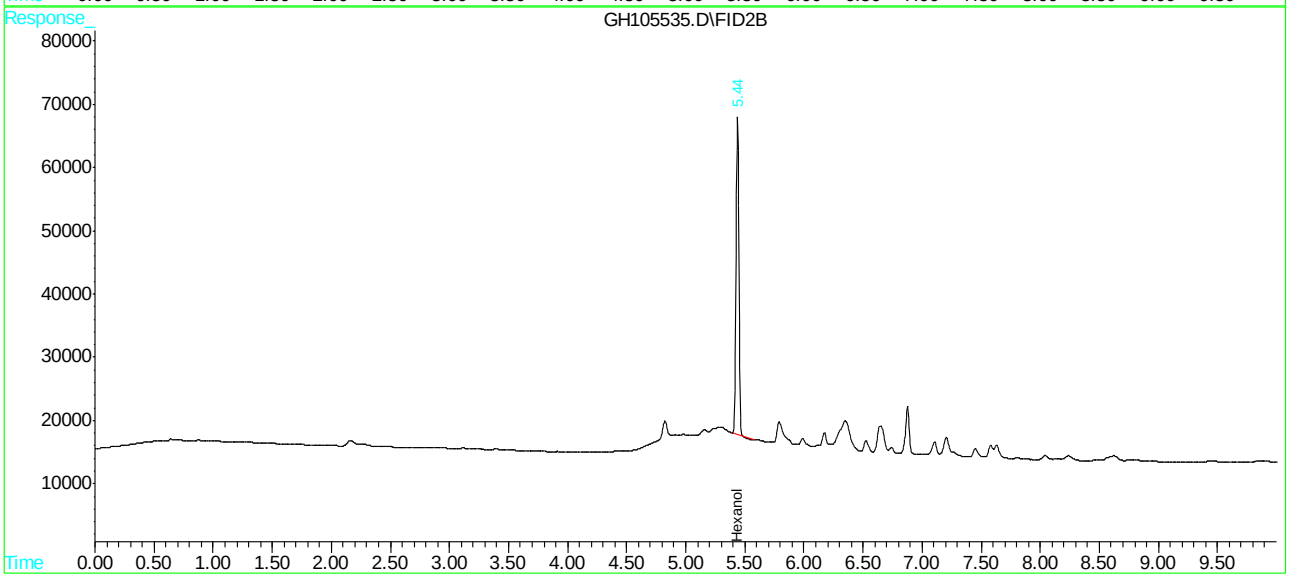
```
Data File : C:\HPCHEM\1\DATA\GH105535.D\FID1A.CH          Vial: 1
Acq On    : 16 Jun 2016   3:29 pm                     Operator: XULIU
Sample    : JC22206-6                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105535.D\FID2B.CH          Vial: 1
Acq On    : 16 Jun 2016   3:46 pm                     Operator: XULIU
Sample    : JC22206-6                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:42 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105536.D\FID1A.CH          Vial: 2
Acq On    : 16 Jun 2016   3:46 pm                     Operator: XULIU
Sample    : JC22206-7                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105536.D\FID2B.CH          Vial: 2
Acq On    : 16 Jun 2016   4:02 pm                     Operator: XULIU
Sample    : JC22206-7                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:42 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    389404   821805 5760.695  5290.106
 Spiked Amount   5000.000                  Recovery     =  115.21%   105.80%

Target Compounds
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH105536.D MGH5288.M Fri Jun 17 10:24:54 2016 GCGH

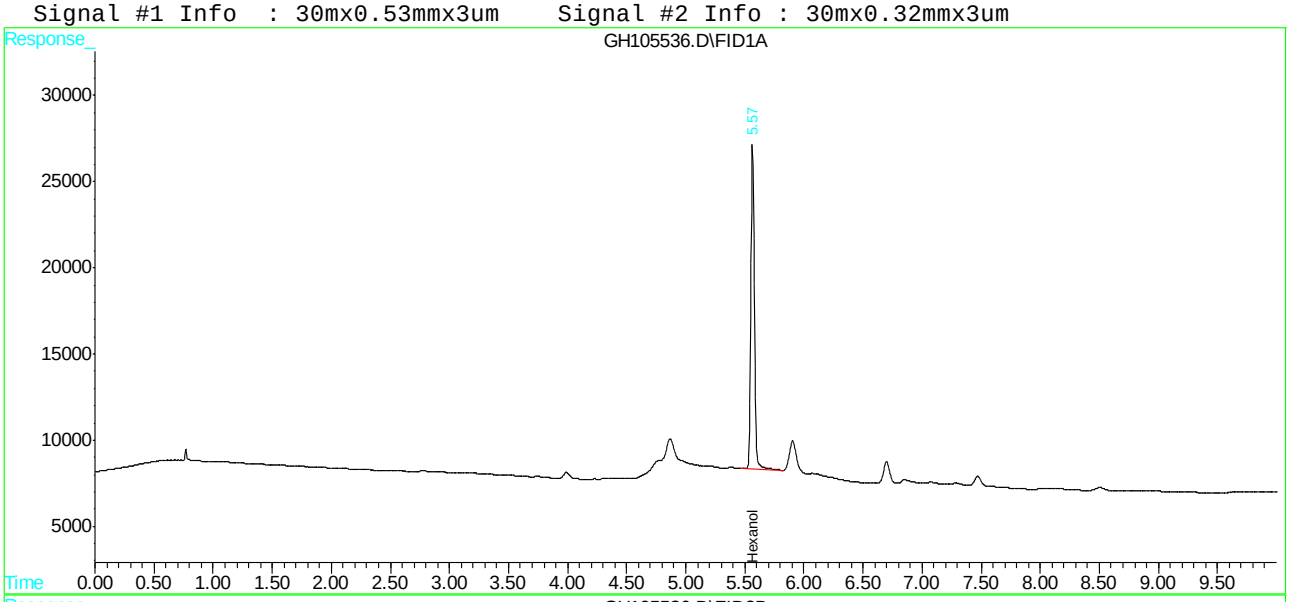
Quantitation Report (QT Reviewed)

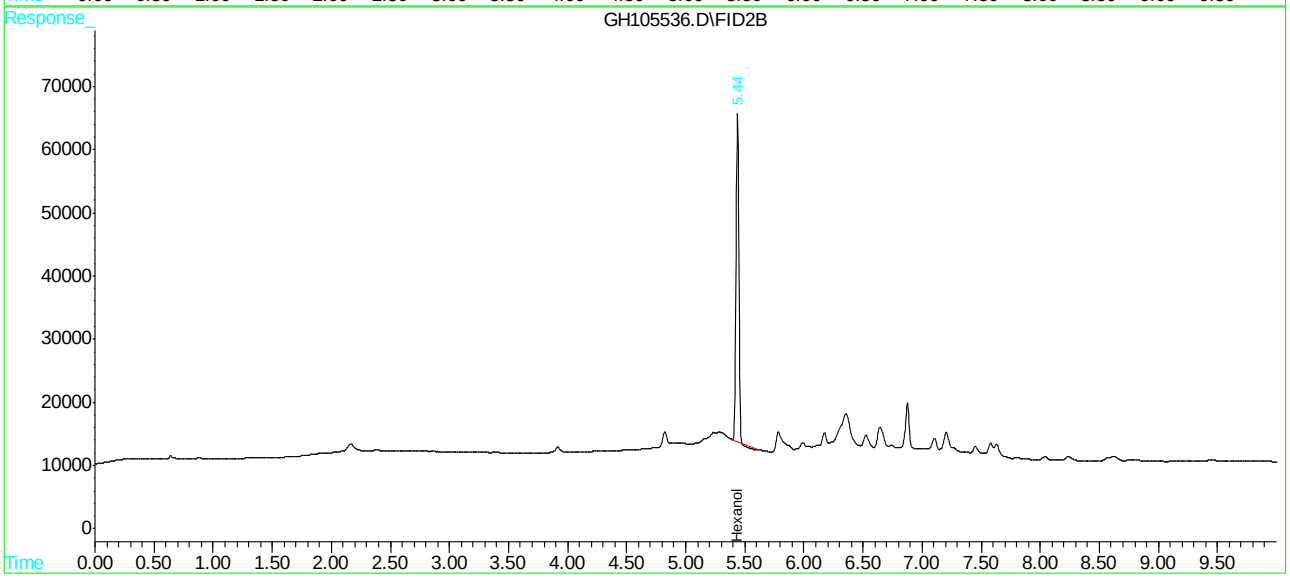
```
Data File : C:\HPCHEM\1\DATA\GH105536.D\FID1A.CH          Vial: 2
Acq On    : 16 Jun 2016   3:46 pm                     Operator: XULIU
Sample    : JC22206-7                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105536.D\FID2B.CH          Vial: 2
Acq On    : 16 Jun 2016   4:02 pm                     Operator: XULIU
Sample    : JC22206-7                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:42 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105537.D\FID1A.CH          Vial: 3
Acq On    : 16 Jun 2016   4:02 pm                     Operator: XULIU
Sample    : JC22206-8                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105537.D\FID2B.CH          Vial: 3
Acq On    : 16 Jun 2016   4:19 pm                     Operator: XULIU
Sample    : JC22206-8                                 Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:43 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    434188   743093 6423.215  4783.421
 Spiked Amount   5000.000                  Recovery     =  128.46%    95.67%

Target Compounds
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH105537.D MGH5288.M Fri Jun 17 10:25:13 2016 GCGH

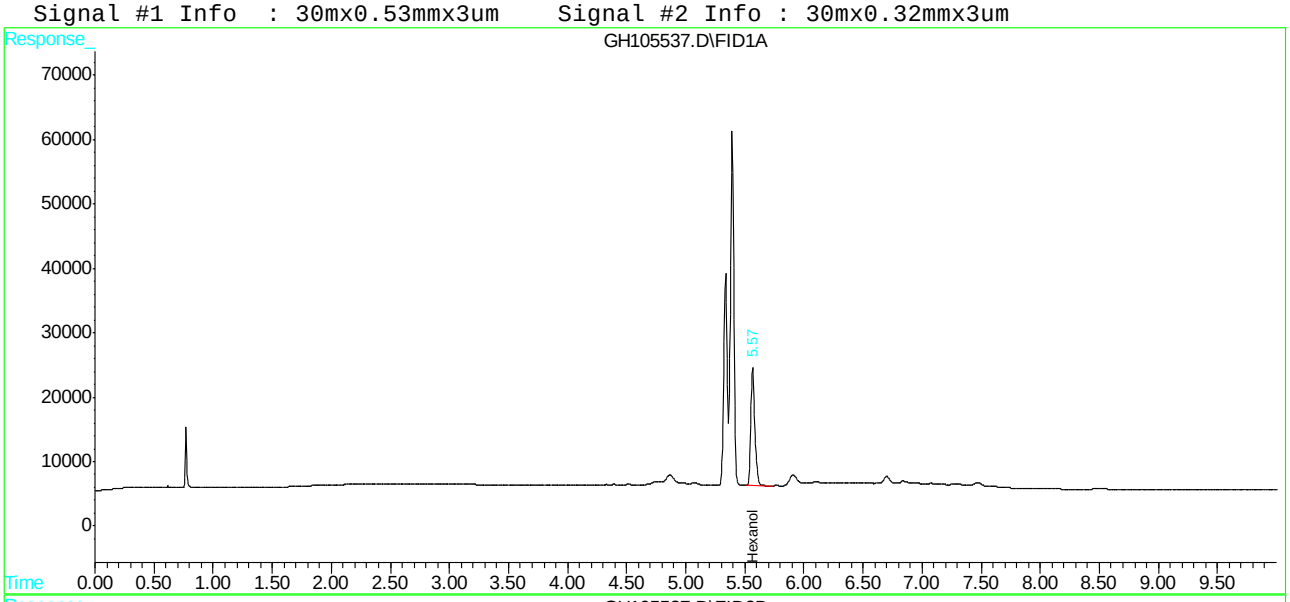
Quantitation Report (QT Reviewed)

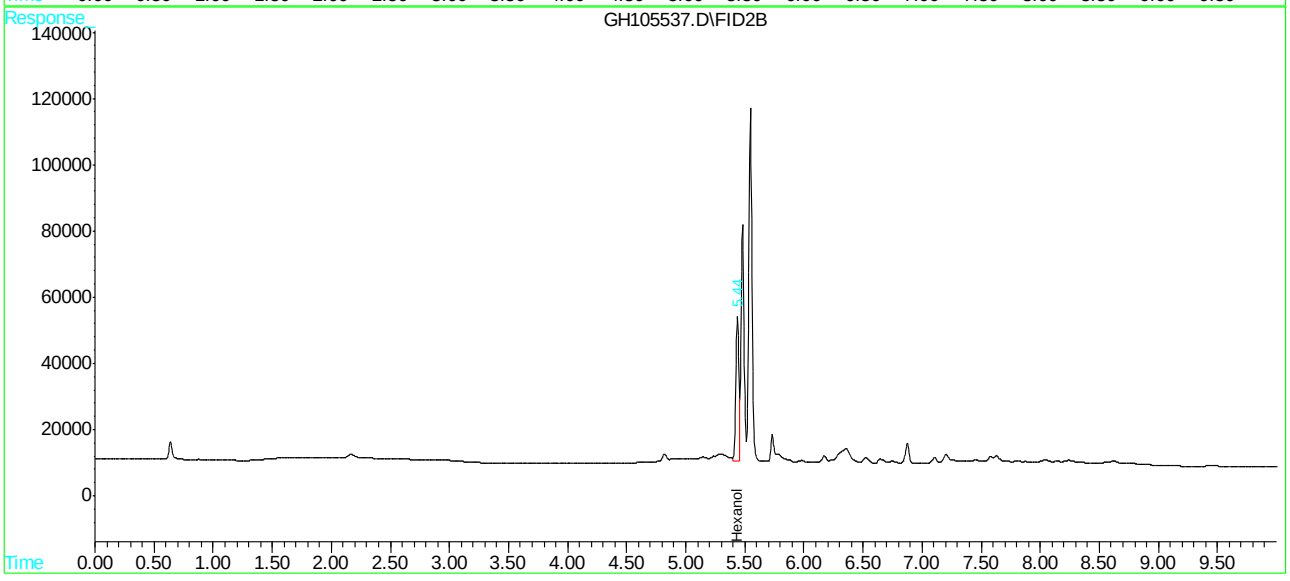
Data File : C:\HPCHEM\1\DATA\GH105537.D\FID1A.CH Vial: 3
Acq On : 16 Jun 2016 4:02 pm Operator: XULIU
Sample : JC22206-8 Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105537.D\FID2B.CH Vial: 3
Acq On : 16 Jun 2016 4:19 pm Operator: XULIU
Sample : JC22206-8 Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 17 9:43 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Fri Jun 17 09:25:27 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\GH105573.D\FID1A.CH          Vial: 15
Acq On    : 20 Jun 2016   1:56 pm                     Operator: XULIU
Sample    : JC22206-9                                 Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105573.D\FID2B.CH          Vial: 15
Acq On    : 20 Jun 2016   2:12 pm                     Operator: XULIU
Sample    : JC22206-9                                 Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 14:54 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 14:54:24 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   5.46    311311   743941 4605.411  4788.880
 Spiked Amount   5000.000                 Recovery     =   92.11%    95.78%

Target Compounds
```

9.1.9

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105573.D  MGH5288.M      Tue Jun 21 08:09:23 2016      GCGH
```


SGS ACCUTEST JC22206

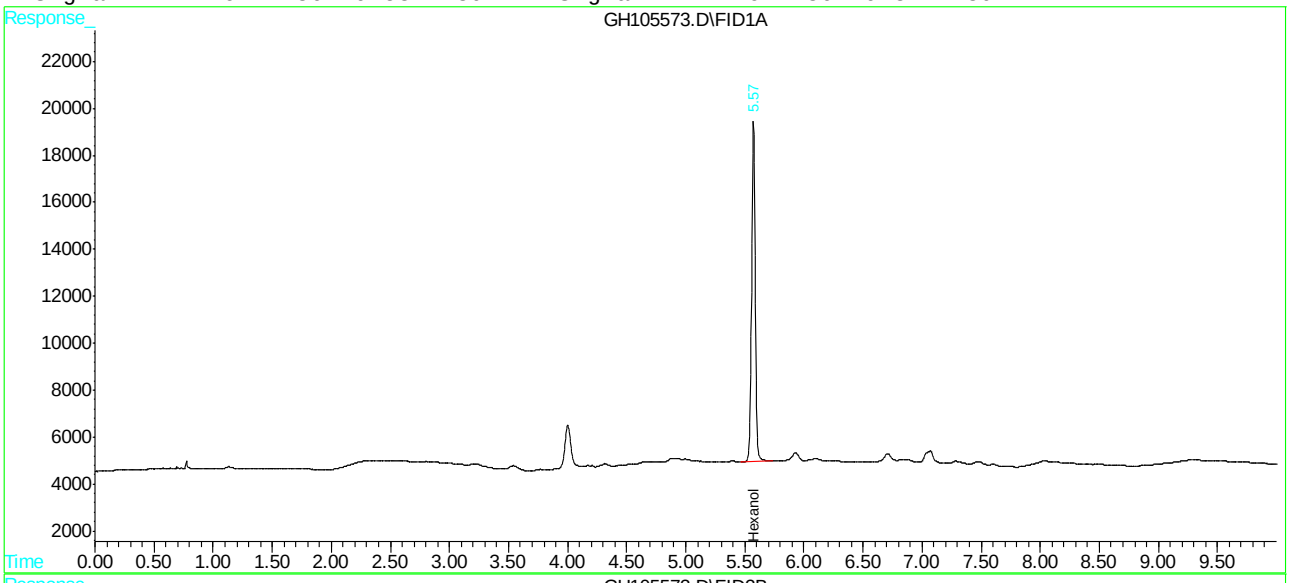
Quantitation Report (QT Reviewed)

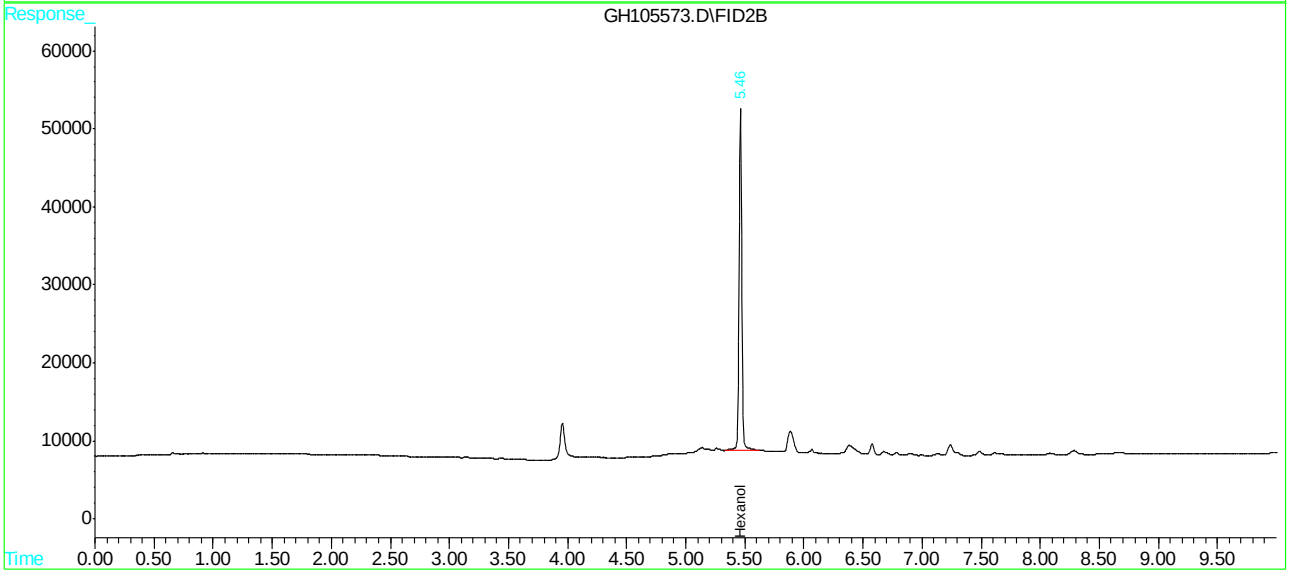
```
Data File : C:\HPCHEM\1\DATA\GH105573.D\FID1A.CH          Vial: 15
Acq On    : 20 Jun 2016   1:56 pm                     Operator: XULIU
Sample    : JC22206-9                                 Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105573.D\FID2B.CH          Vial: 15
Acq On    : 20 Jun 2016   2:12 pm                     Operator: XULIU
Sample    : JC22206-9                                 Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 14:54 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 14:54:24 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\GH105539.D\FID1A.CH          Vial: 5
Acq On    : 16 Jun 2016   4:35 pm                     Operator: XULIU
Sample    : JC22206-10                                Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105539.D\FID2B.CH          Vial: 5
Acq On    : 16 Jun 2016   4:51 pm                     Operator: XULIU
Sample    : JC22206-10                                Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:45 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.46    378076   791561 5593.117  5095.418
 Spiked Amount   5000.000                  Recovery     =  111.86%   101.91%

Target Compounds
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH105539.D MGH5288.M Fri Jun 17 10:25:55 2016 GCGH

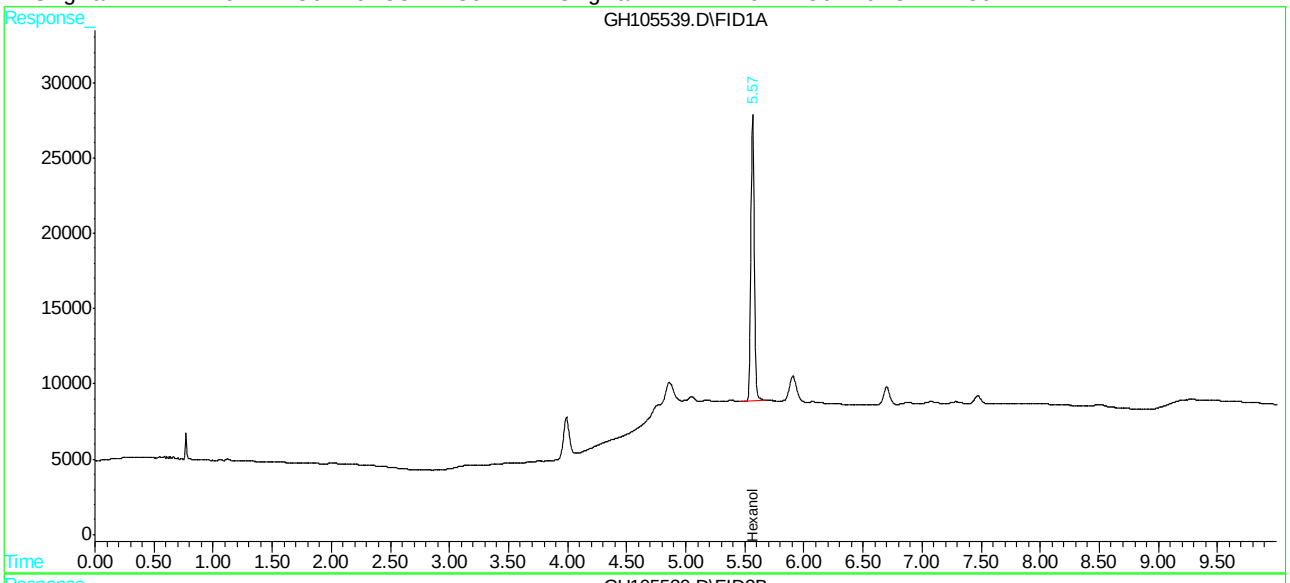
Quantitation Report (QT Reviewed)

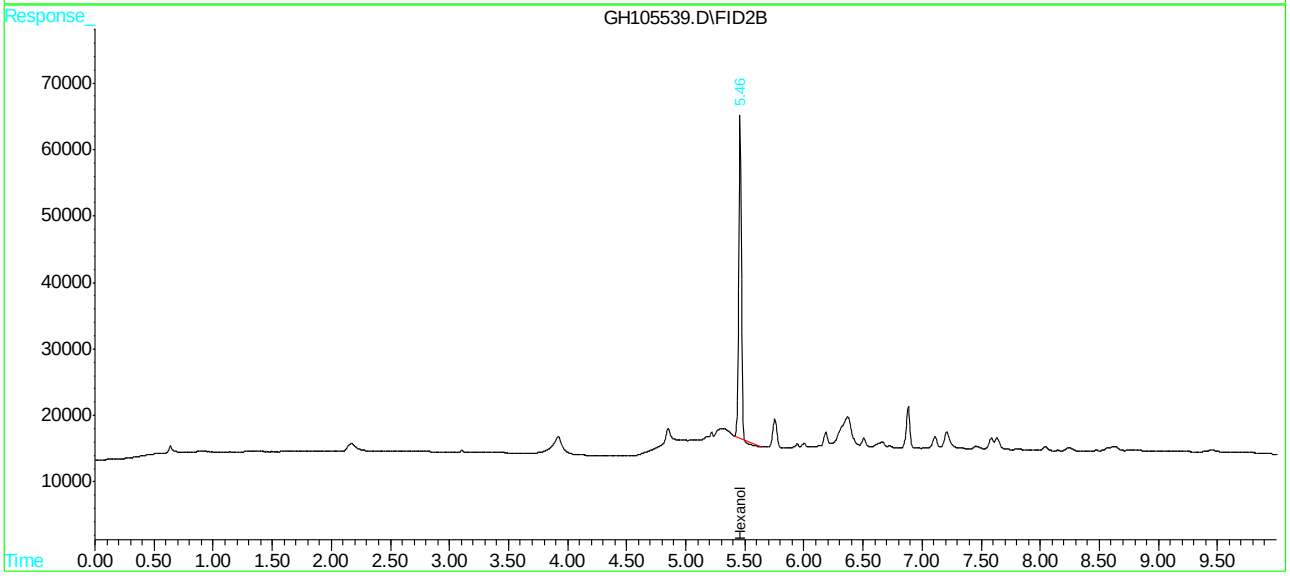
Data File : C:\HPCHEM\1\DATA\GH105539.D\FID1A.CH Vial: 5
Acq On : 16 Jun 2016 4:35 pm Operator: XULIU
Sample : JC22206-10 Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105539.D\FID2B.CH Vial: 5
Acq On : 16 Jun 2016 4:51 pm Operator: XULIU
Sample : JC22206-10 Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 17 9:45 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Fri Jun 17 09:25:27 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\GH105540.D\FID1A.CH          Vial: 6
Acq On    : 16 Jun 2016   4:51 pm                     Operator: XULIU
Sample    : JC22206-11                                Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105540.D\FID2B.CH          Vial: 6
Acq On    : 16 Jun 2016   5:08 pm                     Operator: XULIU
Sample    : JC22206-11                                Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:46 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    372327   802704 5508.072  5167.147
 Spiked Amount   5000.000                  Recovery     =  110.16%   103.34%

Target Compounds
```

9.1.11

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105540.D  MGH5288.M      Fri Jun 17 10:26:12 2016      GCGH
```

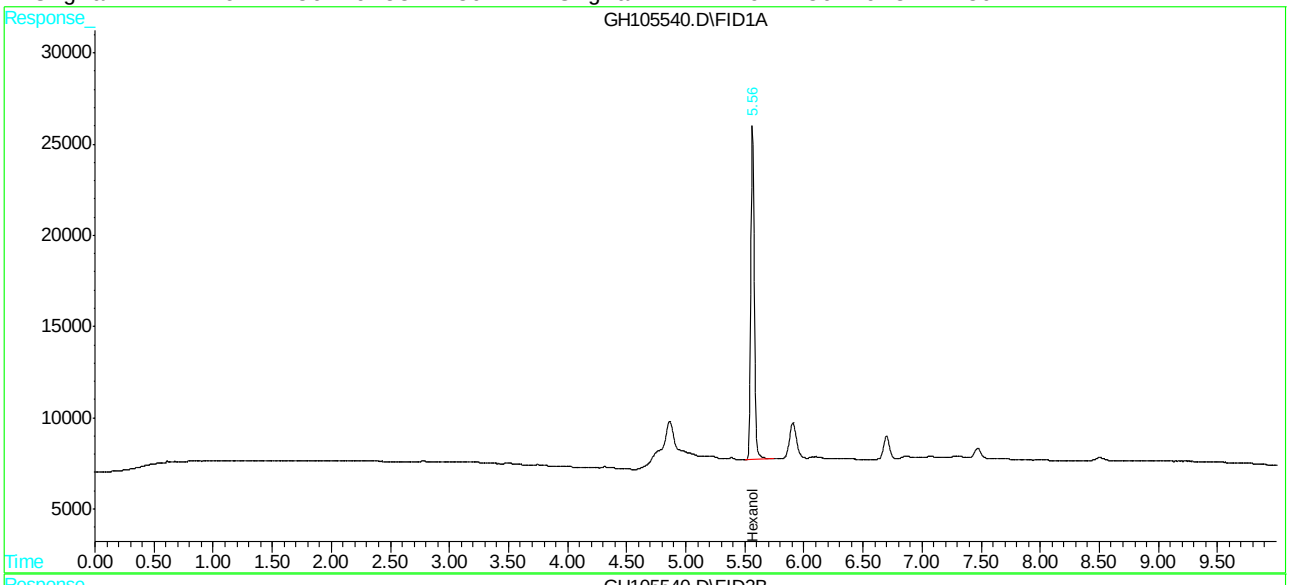
Quantitation Report (QT Reviewed)

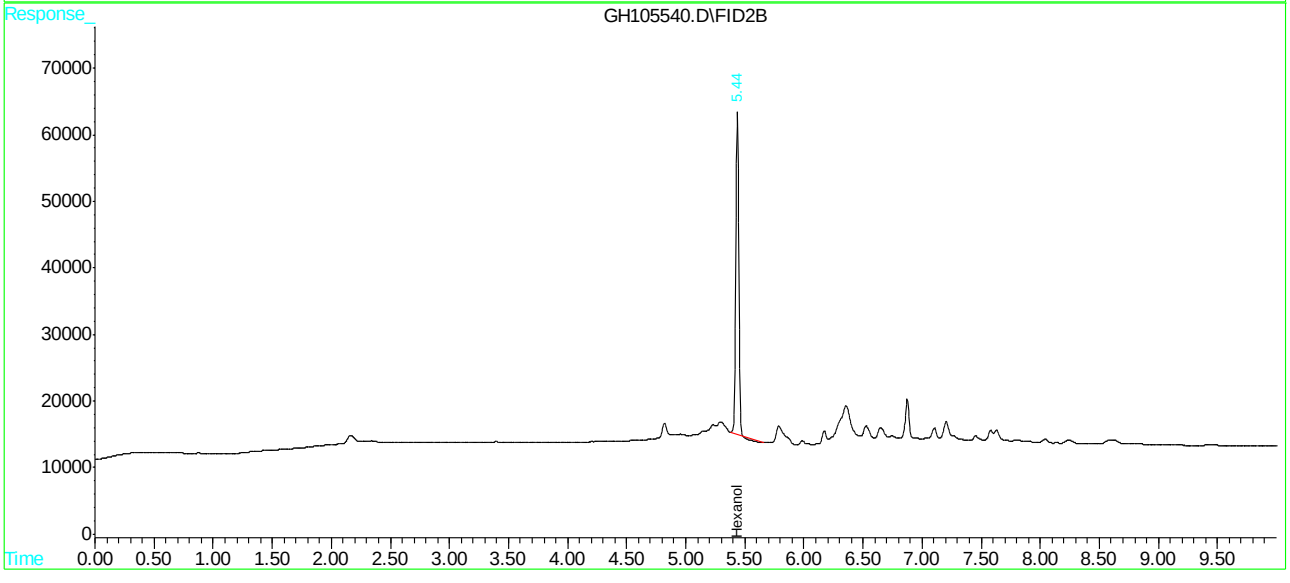
```
Data File : C:\HPCHEM\1\DATA\GH105540.D\FID1A.CH          Vial: 6
Acq On    : 16 Jun 2016   4:51 pm                     Operator: XULIU
Sample    : JC22206-11                                Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105540.D\FID2B.CH          Vial: 6
Acq On    : 16 Jun 2016   5:08 pm                     Operator: XULIU
Sample    : JC22206-11                                Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:46 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105524.D\FID1A.CH          Vial: 93
Acq On    : 16 Jun 2016  12:29 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105524.D\FID2B.CH          Vial: 93
Acq On    : 16 Jun 2016  12:46 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 16 15:34 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 16 15:34:15 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	5.44	285013	646240	4216.376	4159.961
Spiked Amount 5000.000			Recovery	=	84.33%	83.20%
Target Compounds						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

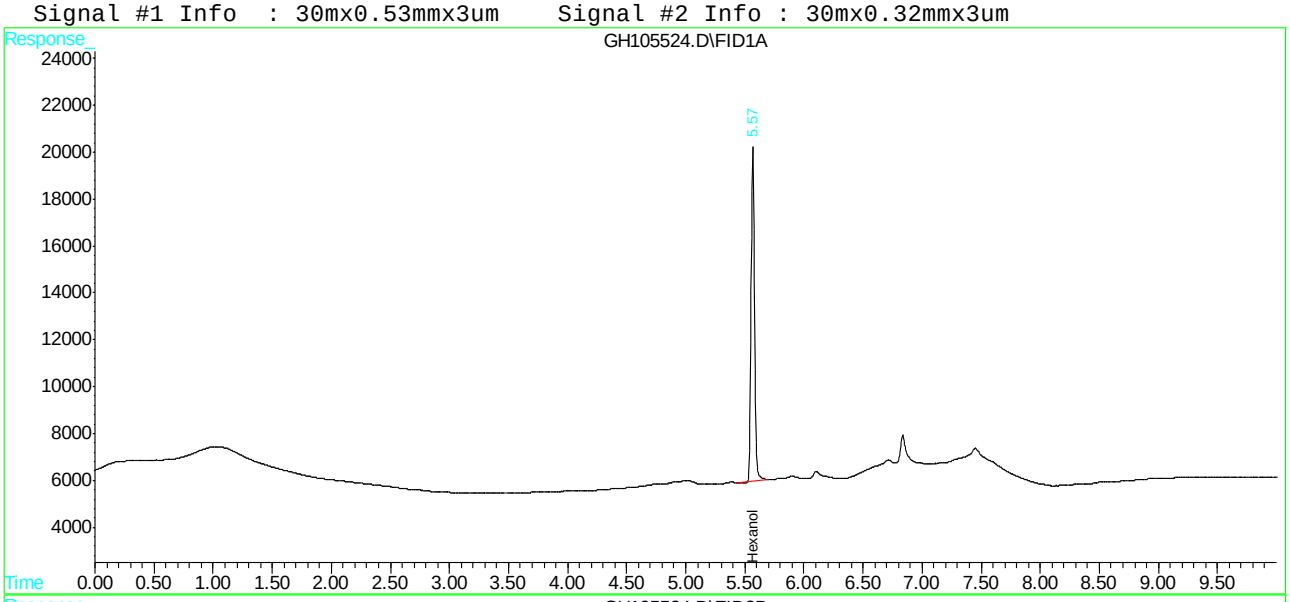
Quantitation Report (QT Reviewed)

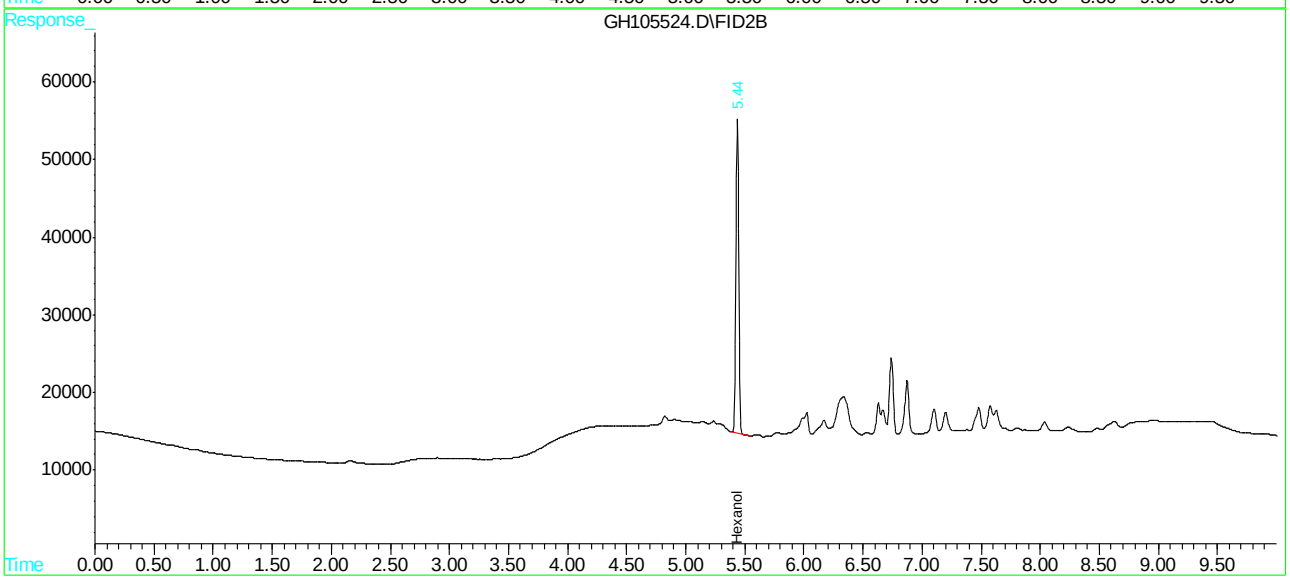
```
Data File : C:\HPCHEM\1\DATA\GH105524.D\FID1A.CH          Vial: 93
Acq On    : 16 Jun 2016  12:29 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105524.D\FID2B.CH          Vial: 93
Acq On    : 16 Jun 2016  12:46 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 16 15:34 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 16 15:34:15 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\GH105534.D\FID1A.CH          Vial: 91
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105534.D\FID2B.CH          Vial: 91
Acq On    : 16 Jun 2016   3:29 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:47 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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   5.44    288536   644613 4268.494  4149.492
 Spiked Amount   5000.000                  Recovery     =   85.37%    82.99%

Target Compounds
```

9.2.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105534.D  MGH5288.M      Fri Jun 17 10:24:18 2016      GCGH
```

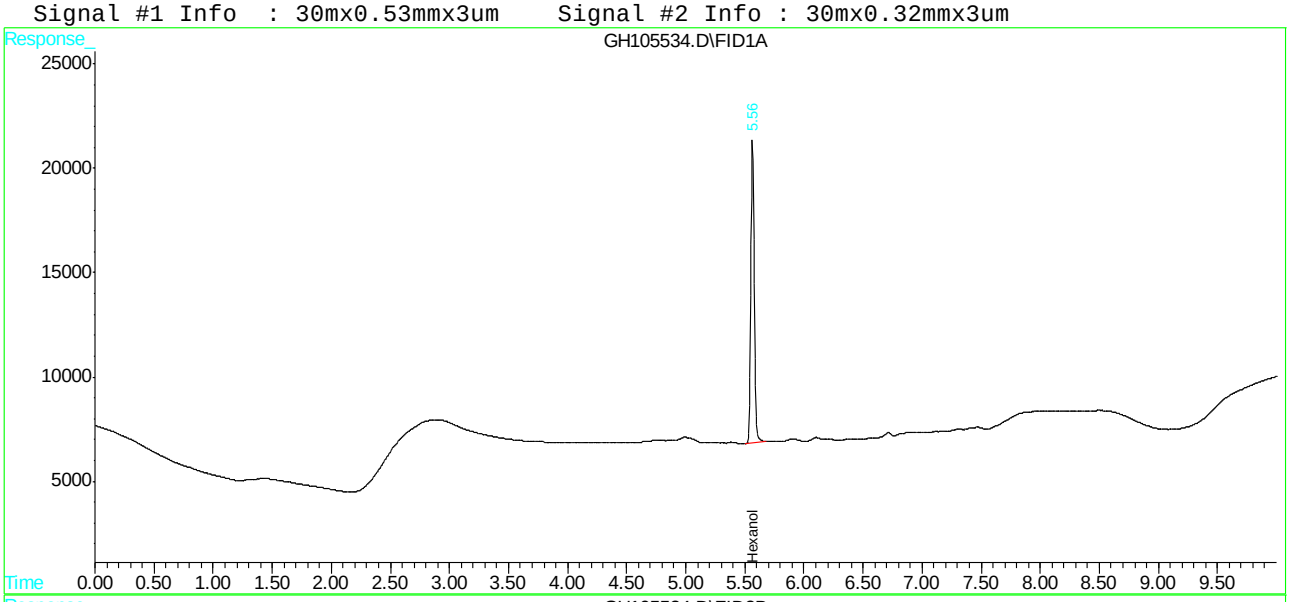
Quantitation Report (QT Reviewed)

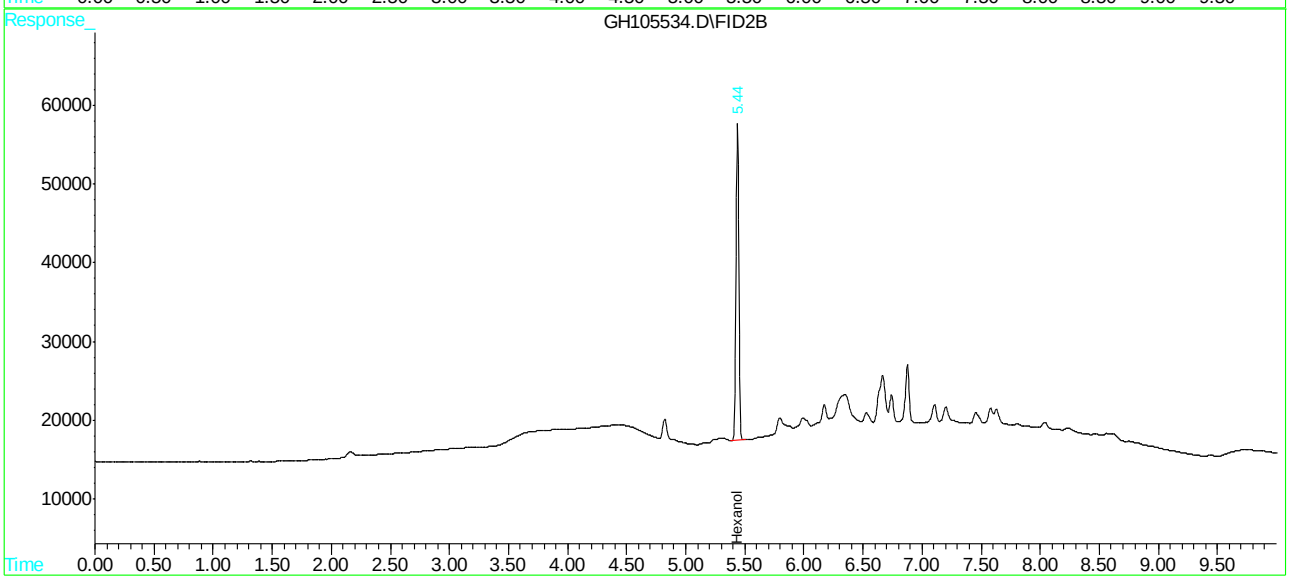
```
Data File : C:\HPCHEM\1\DATA\GH105534.D\FID1A.CH          Vial: 91
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105534.D\FID2B.CH          Vial: 91
Acq On    : 16 Jun 2016   3:29 pm                     Operator: XULIU
Sample    : MB2                                       Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:47 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105571.D\FID1A.CH          Vial: 91
Acq On    : 20 Jun 2016   1:23 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105571.D\FID2B.CH          Vial: 91
Acq On    : 20 Jun 2016   1:39 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 14:13 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 10:37:08 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           5.59   5.46    321642   829149 4758.250  5337.383
 Spiked Amount   5000.000                  Recovery     =   95.17%   106.75%

Target Compounds
```

9.2.3

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105571.D  MGH5288.M      Mon Jun 20 14:18:19 2016      GCGH
```

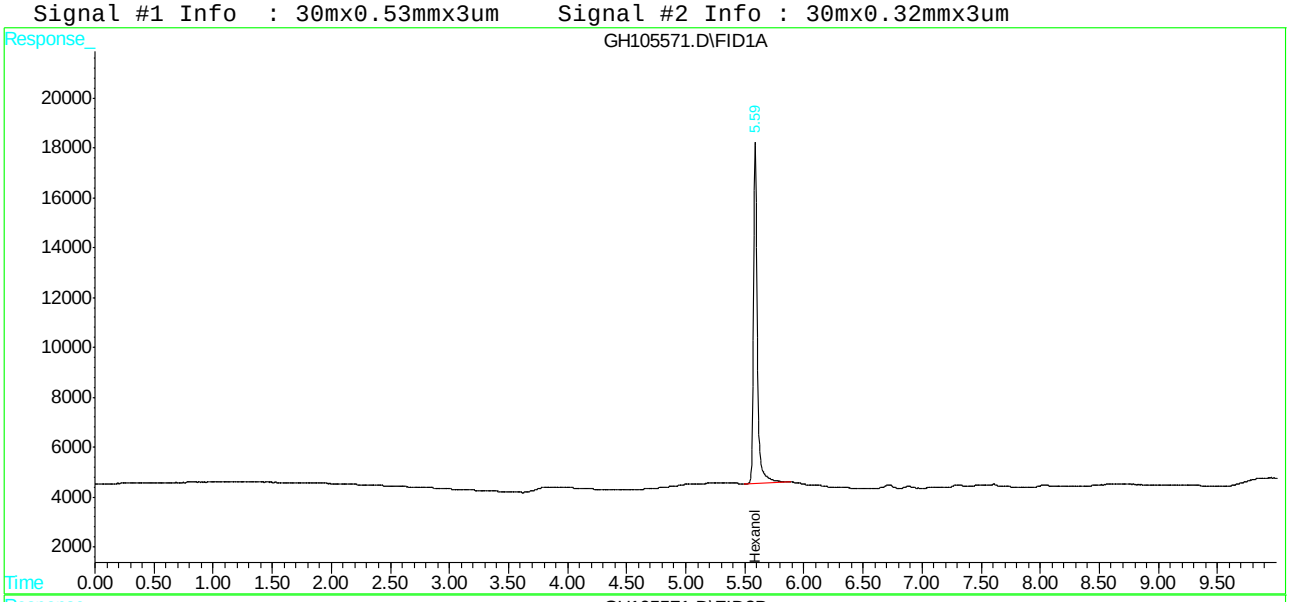
Quantitation Report (QT Reviewed)

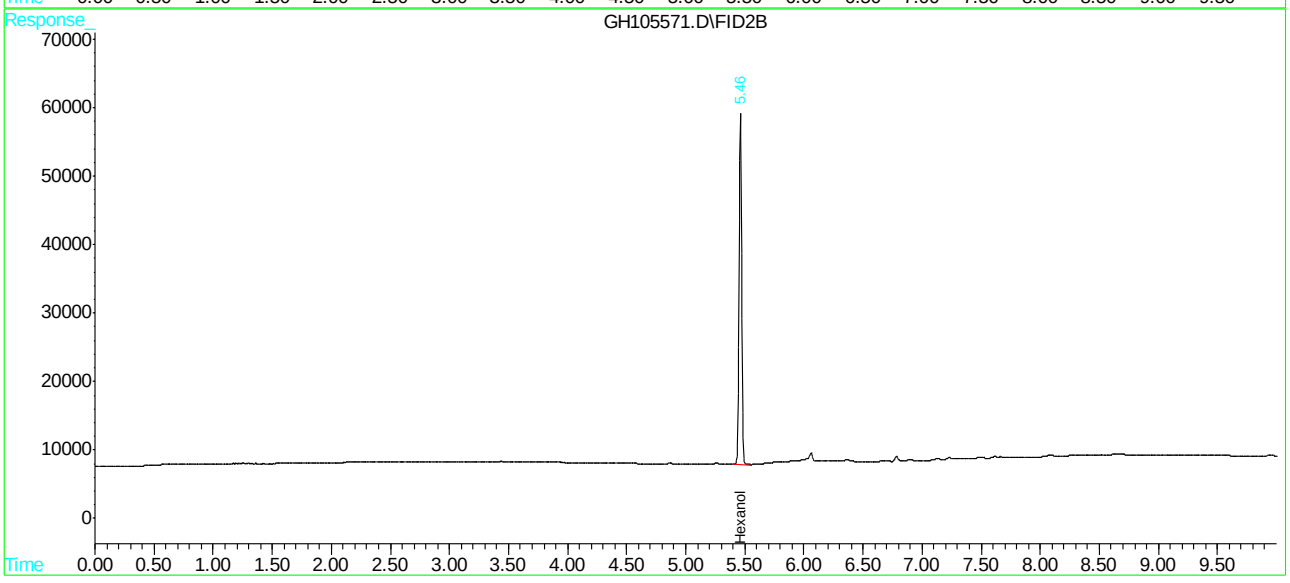
```
Data File : C:\HPCHEM\1\DATA\GH105571.D\FID1A.CH          Vial: 91
Acq On    : 20 Jun 2016   1:23 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105571.D\FID2B.CH          Vial: 91
Acq On    : 20 Jun 2016   1:39 pm                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 14:13 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 10:37:08 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\GH105525.D\FID1A.CH          Vial: 94
Acq On    : 16 Jun 2016  12:46 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105525.D\FID2B.CH          Vial: 94
Acq On    : 16 Jun 2016   1:02 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:28 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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	5.44	331937	727638	4910.547	4683.934
Spiked Amount	5000.000			Recovery	=	98.21%	93.68%
	Target Compounds						
1)	Methanol	1.12	0.88	74602	140759	4825.860	4364.046
2)	Ethanol	1.45	1.14	96194	186264	5076.171	4672.845
3)	Tert-Butyl Alcoh	2.02	1.63	142198	323410	5018.489	5086.430
4)	1-Propanol	2.51	1.97	113295	243585	4657.351	4790.969
5)	2-Propanol	1.75	1.39	103360	217292	5185.895	4798.945
6)	Isobutanol	3.31	2.92	143789	288663	4997.698	4715.087
7)	1-Butanol	3.75	3.39	133776	278083	4683.934	4202.548
8)	2-Butanol	2.94	2.55	131182	266414	5117.417	4907.737

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

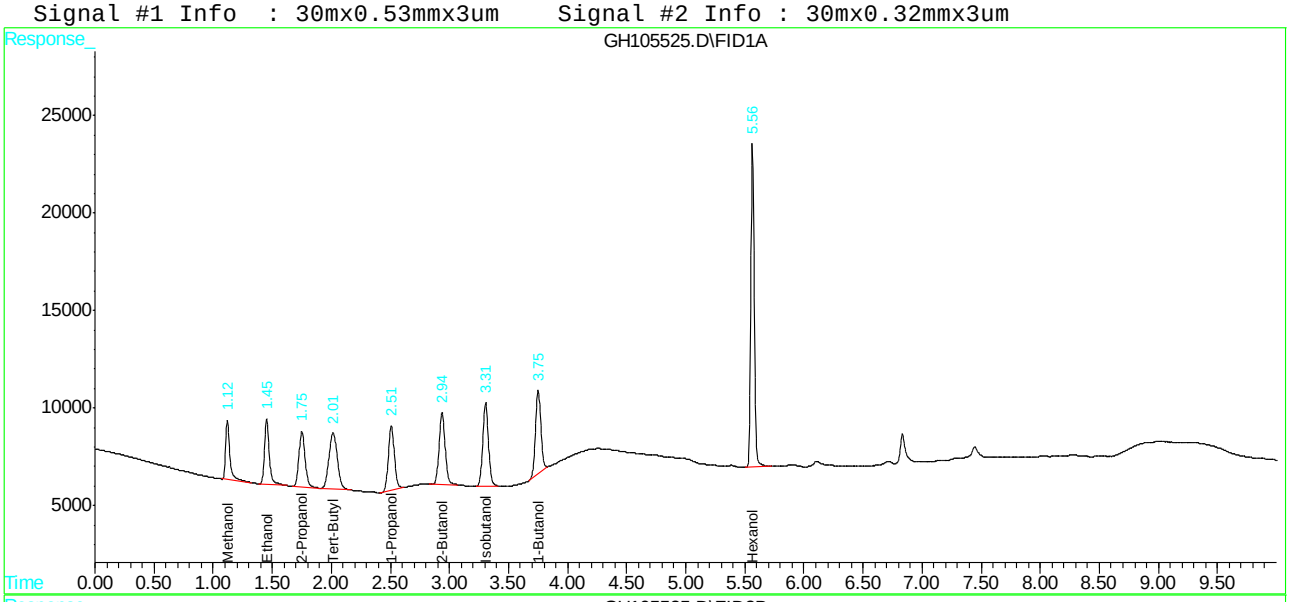
Quantitation Report (QT Reviewed)

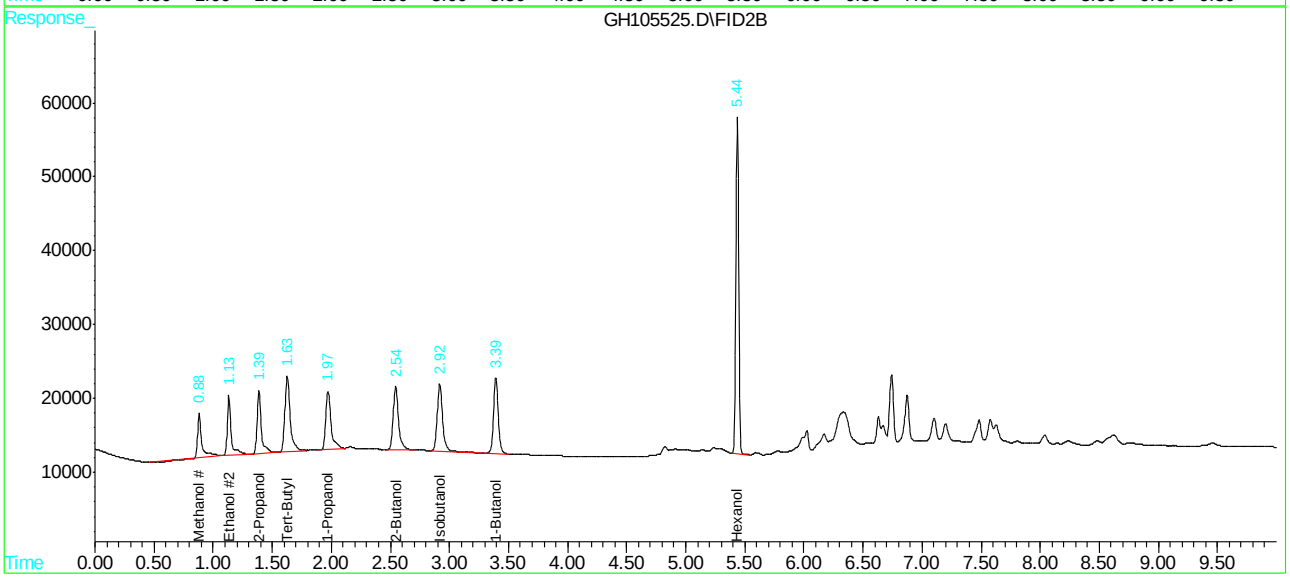
```
Data File : C:\HPCHEM\1\DATA\GH105525.D\FID1A.CH          Vial: 94
Acq On    : 16 Jun 2016  12:46 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105525.D\FID2B.CH          Vial: 94
Acq On    : 16 Jun 2016   1:02 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:28 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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\GH105572.D\FID1A.CH          Vial: 92
Acq On    : 20 Jun 2016   1:39 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105572.D\FID2B.CH          Vial: 92
Acq On    : 20 Jun 2016   1:56 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 14:16 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 10:37:08 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	5.59	5.46	324129	890896	4795.048	5734.859
Spiked Amount	5000.000			Recovery	=	95.90%	114.70%
	Target Compounds						
1)	Methanol	1.13	0.91	81731	130459	5287.020	4044.718
2)	Ethanol	1.46	1.17	91855	172084	4847.193	4317.100
3)	Tert-Butyl Alcoh	2.03	1.67	139220	314543	4913.399	4946.979
4)	1-Propanol	2.52	2.02	125466	206054	5157.670	4052.787
5)	2-Propanol	1.76	1.43	99016	202871	4967.916	4480.459
6)	Isobutanol	3.32	2.96	138865	288893	4826.576	4718.837
7)	1-Butanol	3.77	3.44	134241	275177	4700.196	4158.640
8)	2-Butanol	2.95	2.60	126657	270886	4940.910	4990.117

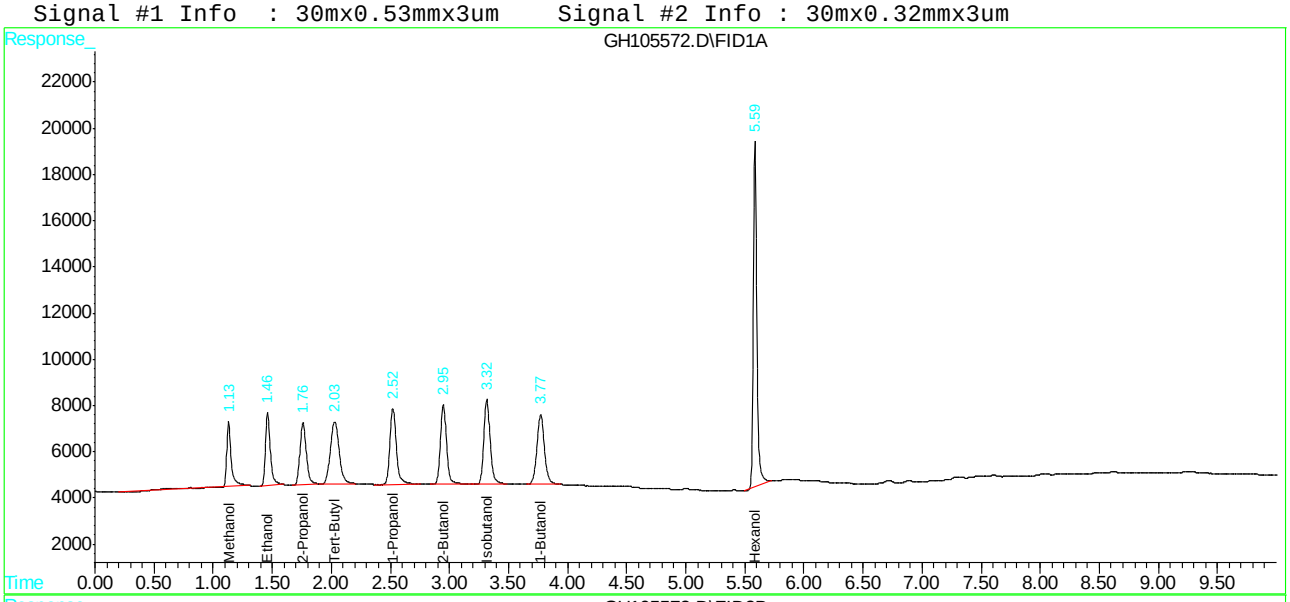
Quantitation Report (QT Reviewed)

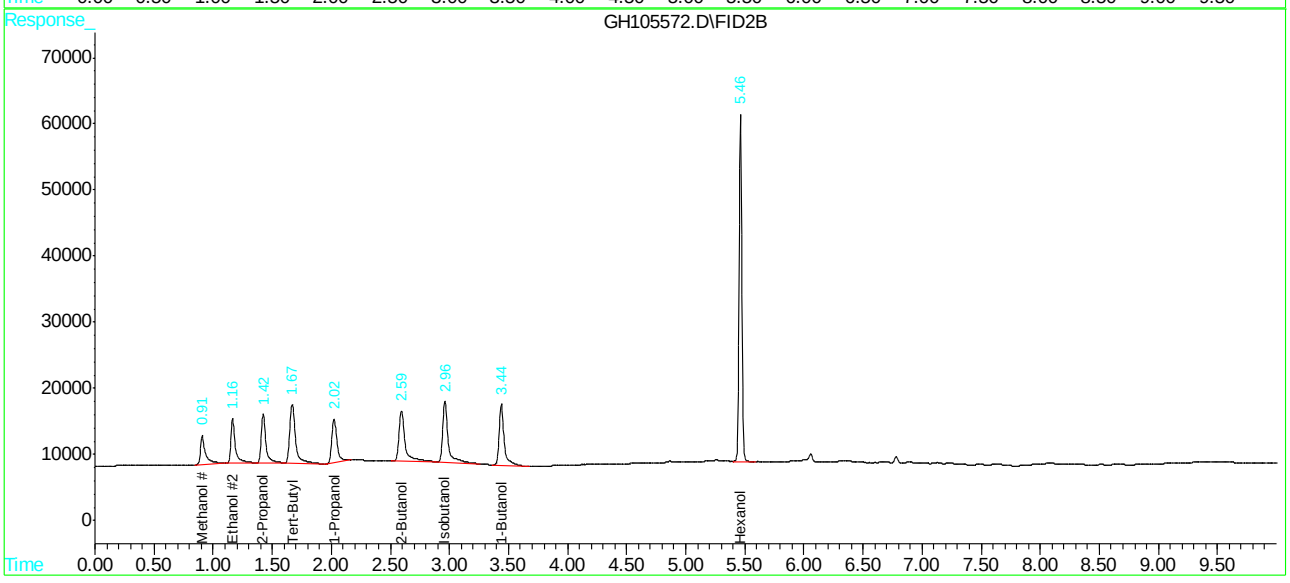
```
Data File : C:\HPCHEM\1\DATA\GH105572.D\FID1A.CH          Vial: 92
Acq On    : 20 Jun 2016   1:39 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105572.D\FID2B.CH          Vial: 92
Acq On    : 20 Jun 2016   1:56 pm                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 14:16 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 10:37:08 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 JC22206

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105527.D\FID1A.CH          Vial: 21
Acq On    : 16 Jun 2016   1:19 pm                     Operator: XULIU
Sample    : JC22206-1MS                               Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105527.D\FID2B.CH          Vial: 21
Acq On    : 16 Jun 2016   1:35 pm                     Operator: XULIU
Sample    : JC22206-1MS                               Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:34 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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	5.44	338582	721086	5008.855	4641.758
	Spiked Amount 5000.000			Recovery	=	100.18%	92.84%
	Target Compounds						
1)	Methanol	1.12	0.88	76353	156283	4939.171	4845.335
2)	Ethanol	1.45	1.13	106947	209114	5643.604	5246.102
3)	Tert-Butyl Alcoh	2.02	1.63	173195	375754	6112.455	5909.671
4)	1-Propanol	2.51	1.97	155650	275658	6398.468	5421.798
5)	2-Propanol	1.75	1.39	123399	245146	6191.289	5414.100
6)	Isobutanol	3.31	2.92	180242	353826	6264.703	5779.469
7)	1-Butanol	3.75	3.39	171093	331251	5990.505	5006.065
8)	2-Butanol	2.94	2.55	157135	315538	6129.838	5812.676

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

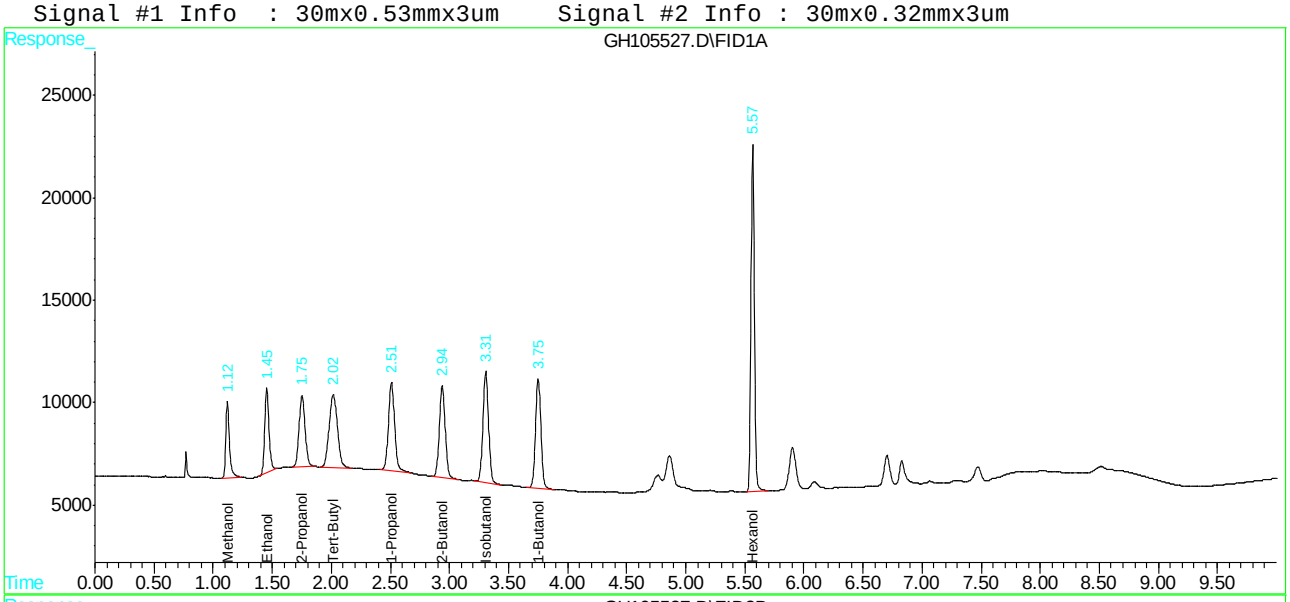
Quantitation Report (QT Reviewed)

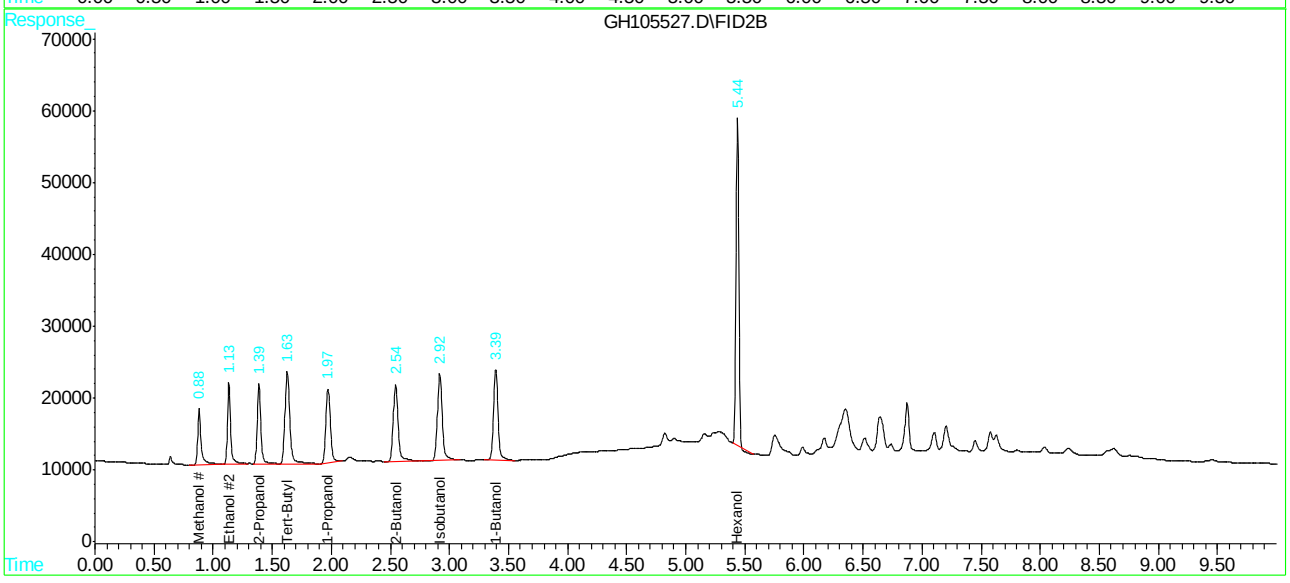
Data File : C:\HPCHEM\1\DATA\GH105527.D\FID1A.CH Vial: 21
Acq On : 16 Jun 2016 1:19 pm Operator: XULIU
Sample : JC22206-1MS Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105527.D\FID2B.CH Vial: 21
Acq On : 16 Jun 2016 1:35 pm Operator: XULIU
Sample : JC22206-1MS Inst : GCGH
Misc : GC48614,GGH5324,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 17 9:34 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Fri Jun 17 09:25:27 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\GH105528.D\FID1A.CH          Vial: 22
Acq On    : 16 Jun 2016   1:35 pm                     Operator: XULIU
Sample    : JC22206-1MSD                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105528.D\FID2B.CH          Vial: 22
Acq On    : 16 Jun 2016   1:51 pm                     Operator: XULIU
Sample    : JC22206-1MSD                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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	5.44	367637	769674	5438.676	4954.528
Spiked Amount	5000.000			Recovery	=	108.77%	99.09%
	Target Compounds						
1)	Methanol	1.12	0.88	74705	173536	4832.561	5380.265
2)	Ethanol	1.45	1.14	109337	232503	5769.711	5832.846
3)	Tert-Butyl Alcoh	2.02	1.63	173272	408636	6115.159	6426.818
4)	1-Propanol	2.51	1.97	147935	305771	6081.314	6014.078
5)	2-Propanol	1.75	1.39	116328	262644	5836.519	5800.563
6)	Isobutanol	3.31	2.92	185885	367213	6460.867	5998.138
7)	1-Butanol	3.75	3.39	159851	346840	5596.904	5241.646
8)	2-Butanol	2.94	2.54	158266	317907	6173.947	5856.323

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

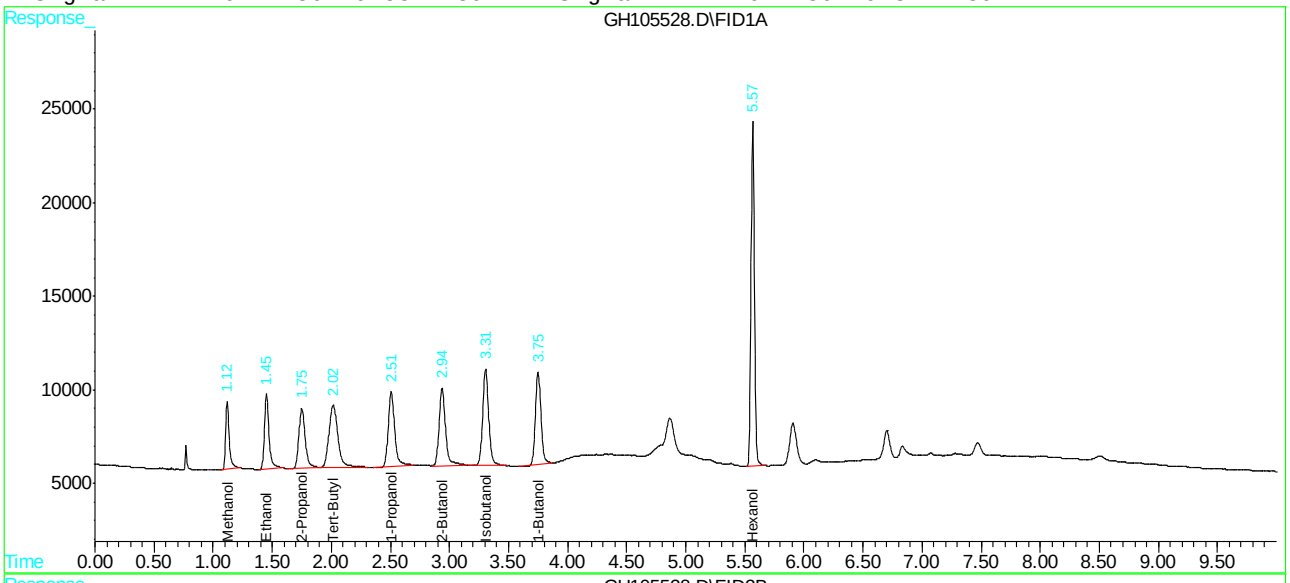
Quantitation Report (QT Reviewed)

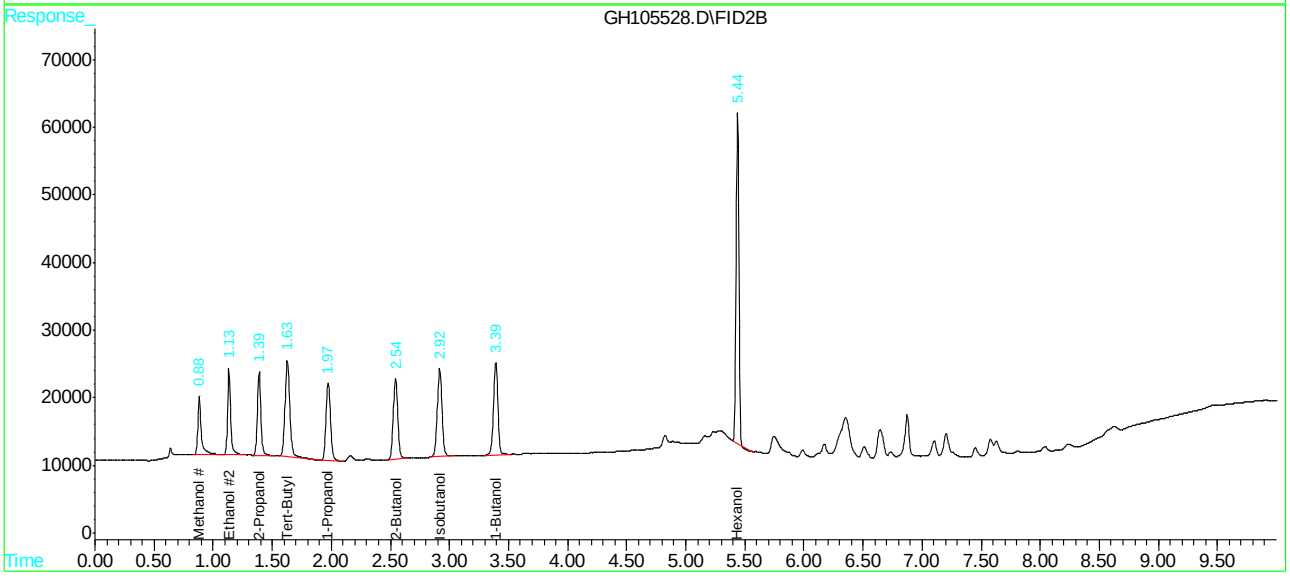
```
Data File : C:\HPCHEM\1\DATA\GH105528.D\FID1A.CH          Vial: 22
Acq On    : 16 Jun 2016   1:35 pm                     Operator: XULIU
Sample    : JC22206-1MSD                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105528.D\FID2B.CH          Vial: 22
Acq On    : 16 Jun 2016   1:51 pm                     Operator: XULIU
Sample    : JC22206-1MSD                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:25:27 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 JC22206

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105574.D\FID1A.CH          Vial: 16
Acq On    : 20 Jun 2016   2:12 pm                     Operator: XULIU
Sample    : JC22206-9MS                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105574.D\FID2B.CH          Vial: 16
Acq On    : 20 Jun 2016   2:28 pm                     Operator: XULIU
Sample    : JC22206-9MS                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 21  8:04 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue Jun 21 08:02:46 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	5.46	333081	781946	4927.473	5033.528
	Spiked Amount 5000.000			Recovery	=	98.55%	100.67%
	Target Compounds						
1)	Methanol	1.13	0.92	70078	133780	4533.216	4147.686
2)	Ethanol	1.46	1.17	103209	199048	5446.330	4993.570
3)	Tert-Butyl Alcoh	2.03	1.67	158696	364201	5600.747	5727.968
4)	1-Propanol	2.52	2.03	143985	302817	5918.937	5955.985
5)	2-Propanol	1.76	1.43	108287	234801	5433.088	5185.643
6)	Isobutanol	3.32	2.97	172439	354303	5993.513	5787.261
7)	1-Butanol	3.76	3.44	153897	336568	5388.438	5086.407
8)	2-Butanol	2.95	2.60	146343	314026	5708.827	5784.829

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH105574.D MGH5288.M Tue Jun 21 08:10:12 2016 GCGH

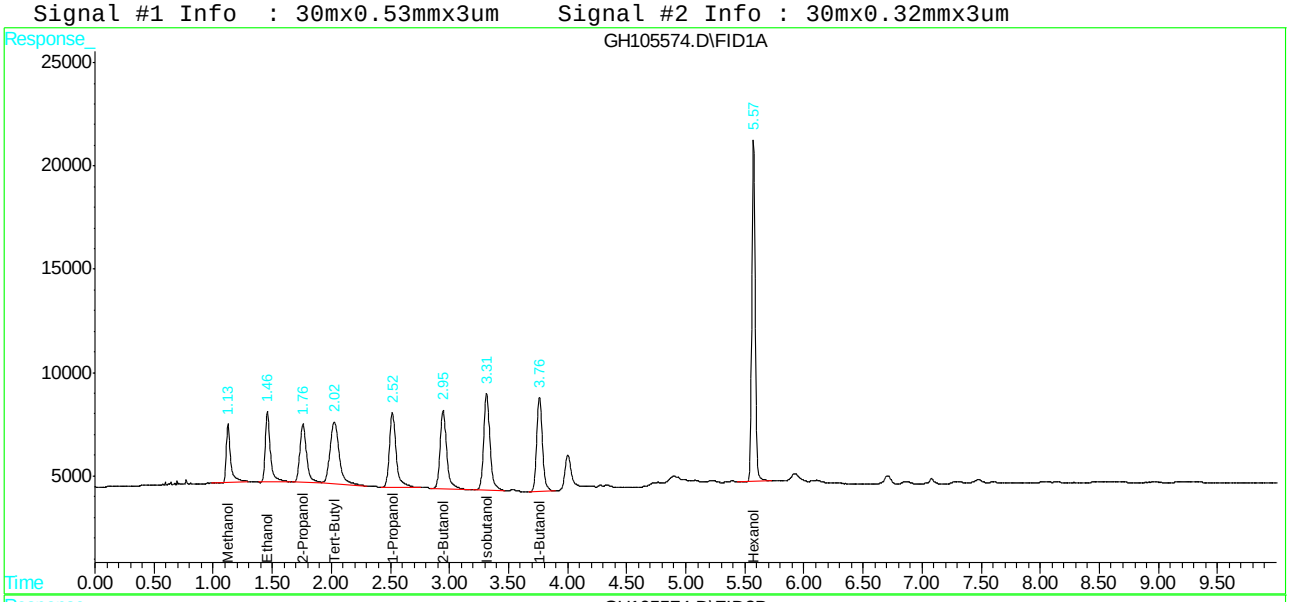
Quantitation Report (QT Reviewed)

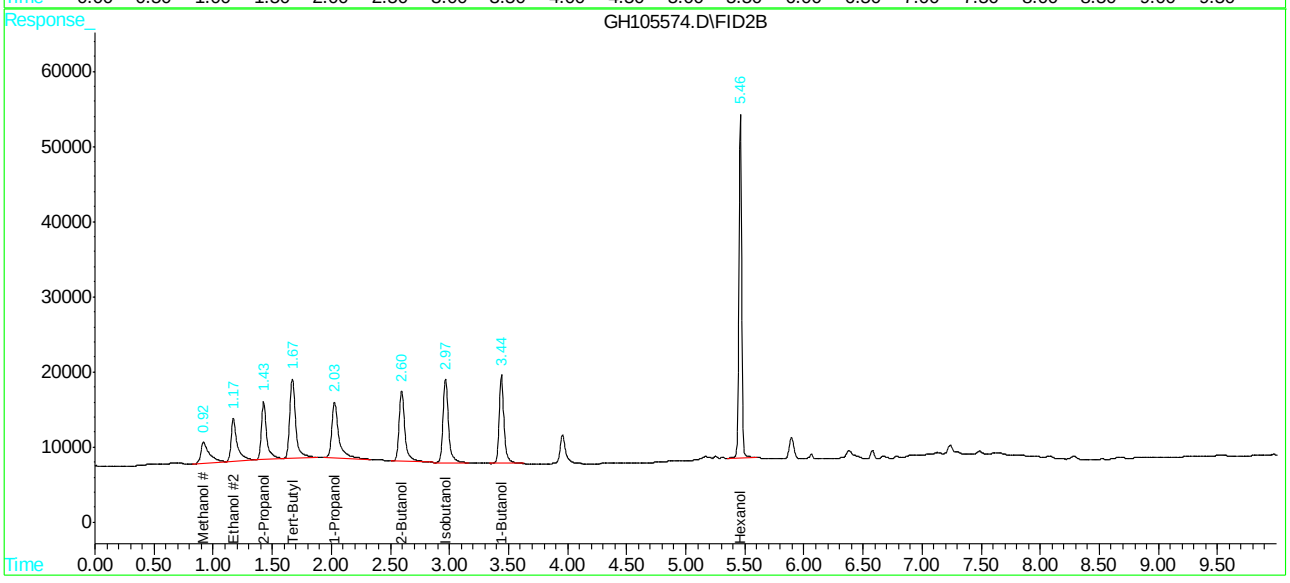
```
Data File : C:\HPCHEM\1\DATA\GH105574.D\FID1A.CH          Vial: 16
Acq On    : 20 Jun 2016   2:12 pm                     Operator: XULIU
Sample    : JC22206-9MS                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105574.D\FID2B.CH          Vial: 16
Acq On    : 20 Jun 2016   2:28 pm                     Operator: XULIU
Sample    : JC22206-9MS                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 21  8:04 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue Jun 21 08:02:46 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\GH105576.D\FID1A.CH          Vial: 17
Acq On    : 20 Jun 2016   3:07 pm                     Operator: XULIU
Sample    : JC22206-9MSD                              Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105576.D\FID2B.CH          Vial: 17
Acq On    : 20 Jun 2016   3:24 pm                     Operator: XULIU
Sample    : JC22206-9MSD                              Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 21  8:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue Jun 21 08:07:38 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	5.58	5.46	328855	789540	4864.960	5082.410
	Spiked Amount 5000.000			Recovery	=	97.30%	101.65%
	Target Compounds						
1)	Methanol	1.13	0.91	71054	156263	4596.346	4844.744
2)	Ethanol	1.46	1.17	97573	223067	5148.902	5596.144
3)	Tert-Butyl Alcoh	2.02	1.67	148851	374952	5253.307	5897.055
4)	1-Propanol	2.51	2.02	136633	288659	5616.694	5677.520
5)	2-Propanol	1.76	1.42	102050	255741	5120.148	5648.091
6)	Isobutanol	3.31	2.96	166879	357160	5800.238	5833.925
7)	1-Butanol	3.77	3.44	147709	337627	5171.781	5102.416
8)	2-Butanol	2.93	2.59	143374	316530	5593.035	5830.952

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC22206

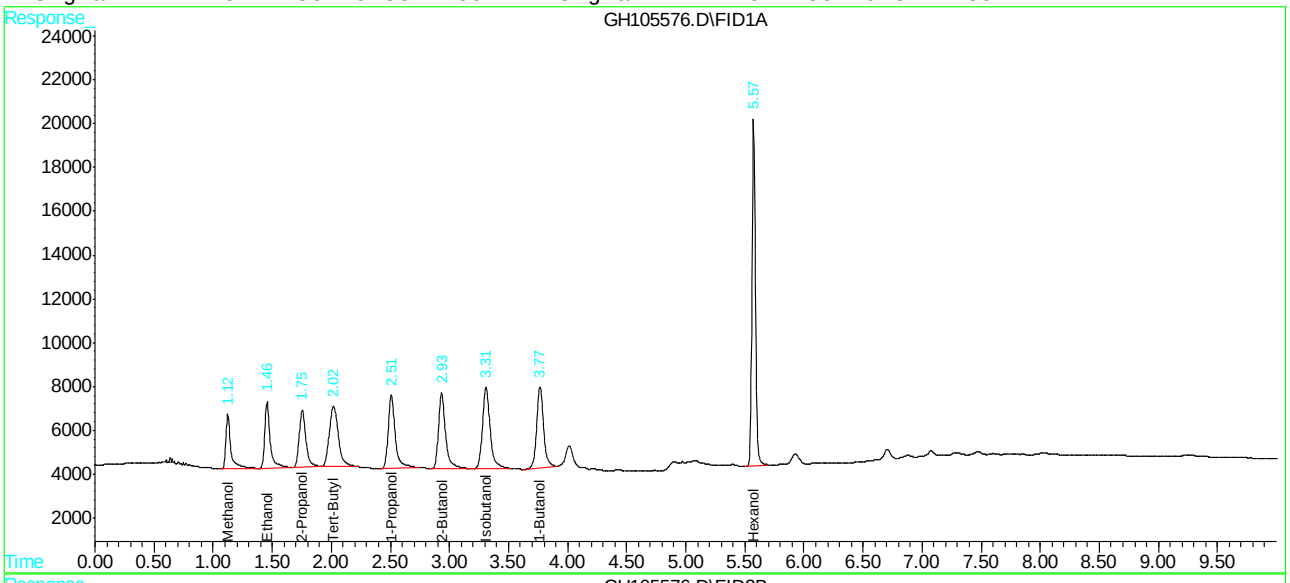
Quantitation Report (QT Reviewed)

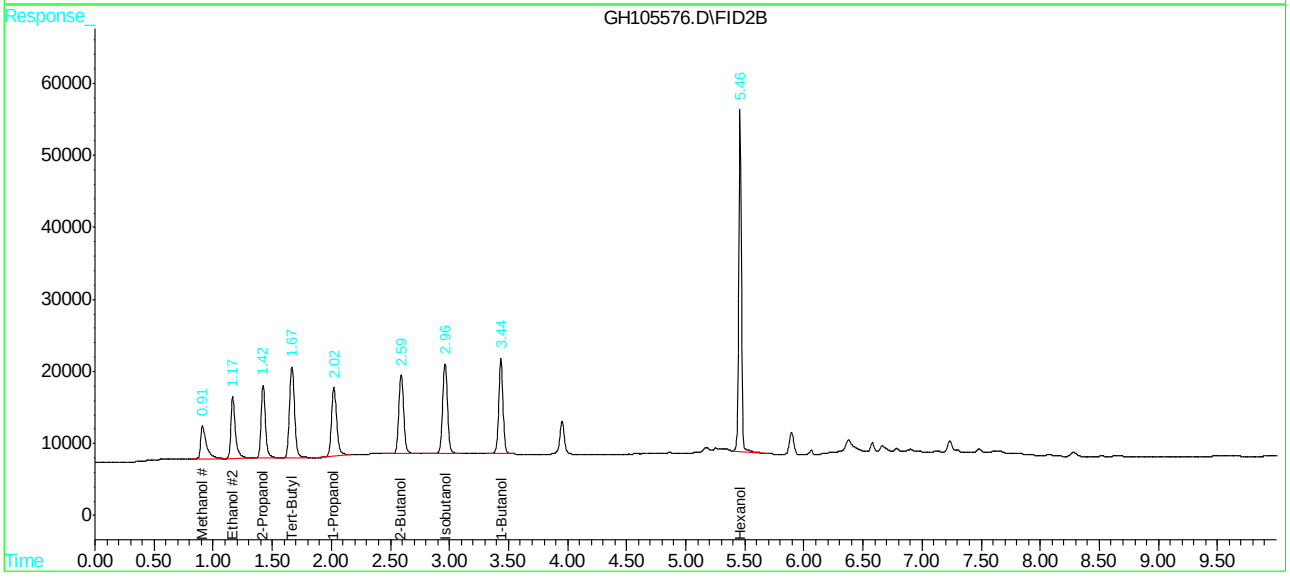
```
Data File : C:\HPCHEM\1\DATA\GH105576.D\FID1A.CH          Vial: 17
Acq On    : 20 Jun 2016   3:07 pm                     Operator: XULIU
Sample    : JC22206-9MSD                              Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105576.D\FID2B.CH          Vial: 17
Acq On    : 20 Jun 2016   3:24 pm                     Operator: XULIU
Sample    : JC22206-9MSD                              Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 21  8:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue Jun 21 08:07:38 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 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.

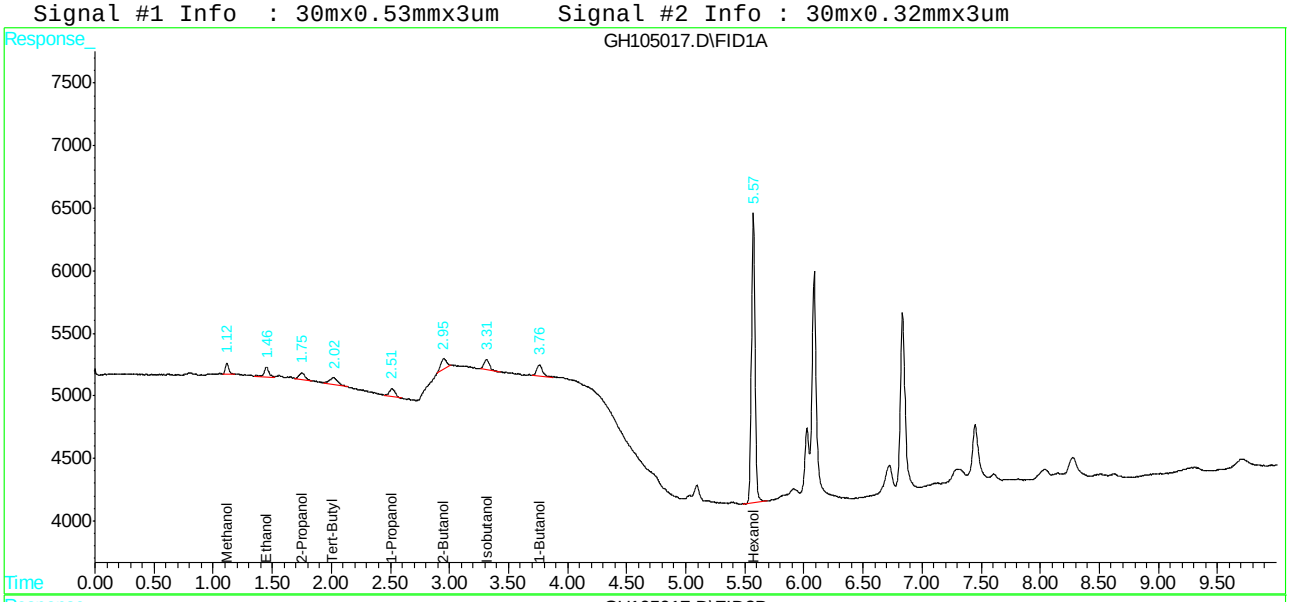
Quantitation Report (QT Reviewed)

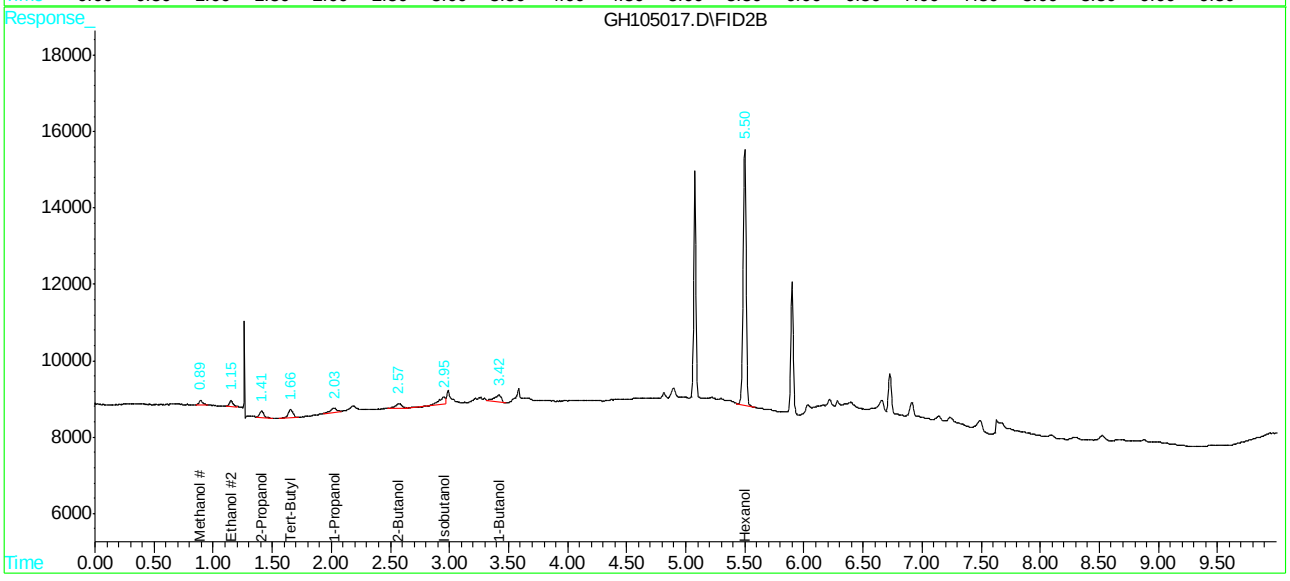
```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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

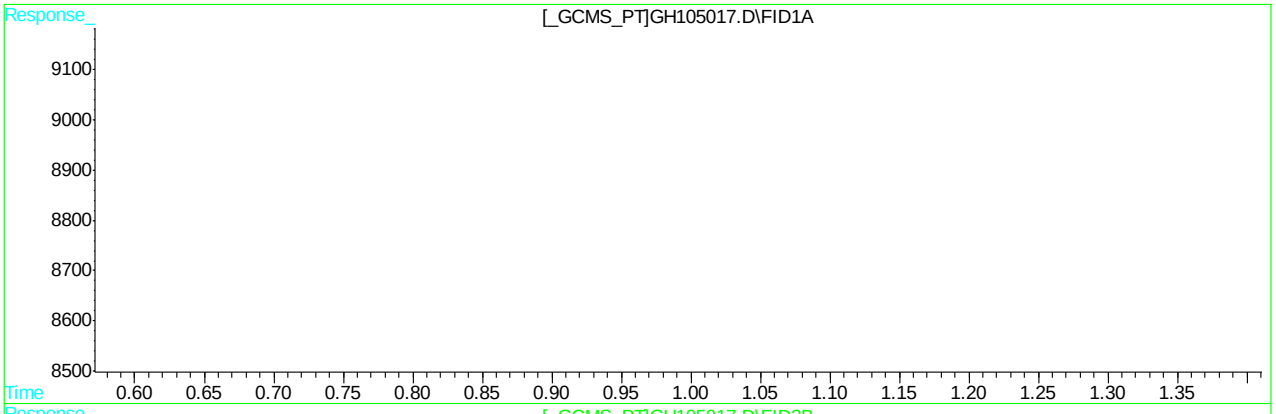
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	2	0.89	Poor instrument integration
Ethanol	64-17-5	2	1.15	Poor instrument integration
n-Propyl Alcohol	71-23-8	2	2.03	Poor instrument integration
sec-Butyl Alcohol	78-92-2	2	2.57	Poor instrument integration
sec-Butyl Alcohol	78-92-2	1	2.95	Poor instrument integration
n-Butyl Alcohol	71-36-3	2	3.42	Poor instrument integration

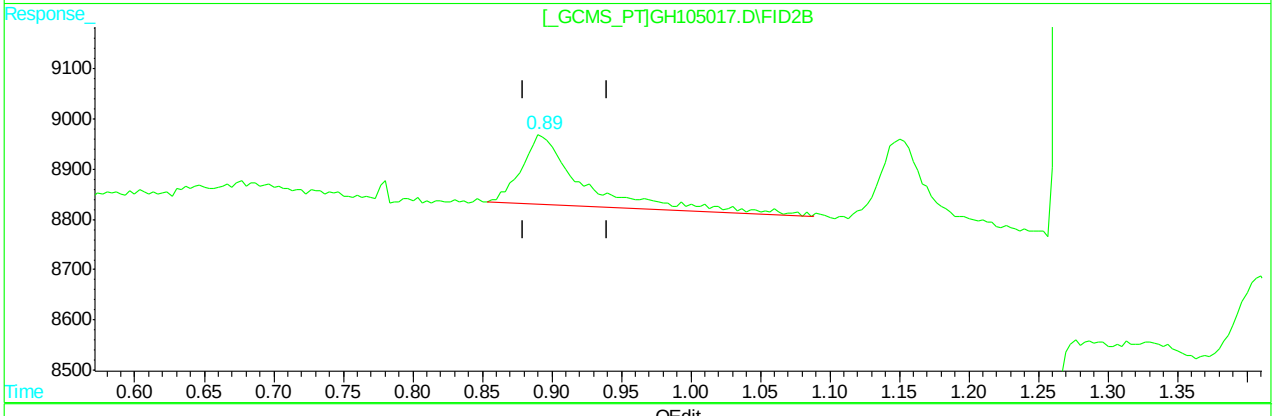
Quantitation Report (Qedit)

```
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

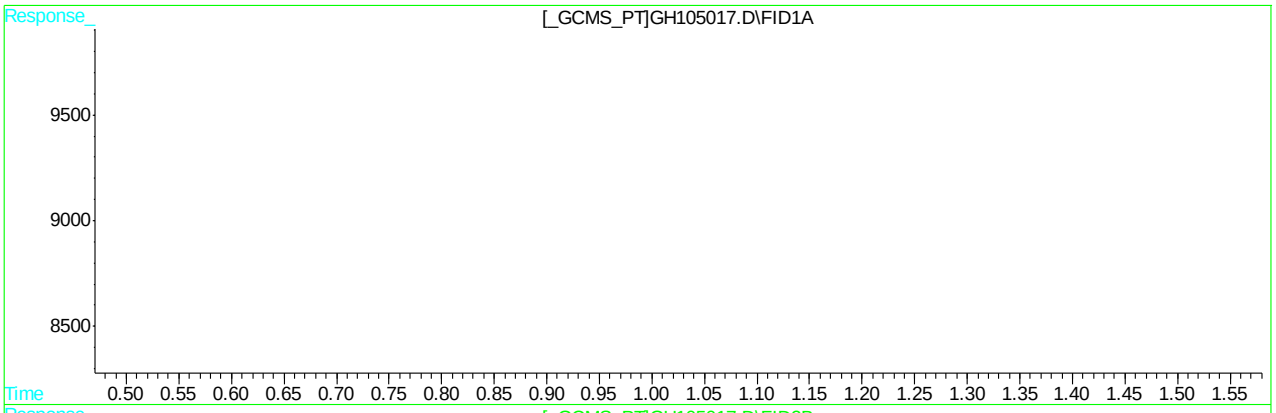
GH105017.D MGH5288.M Wed May 18 08:43:56 2016 GCGH

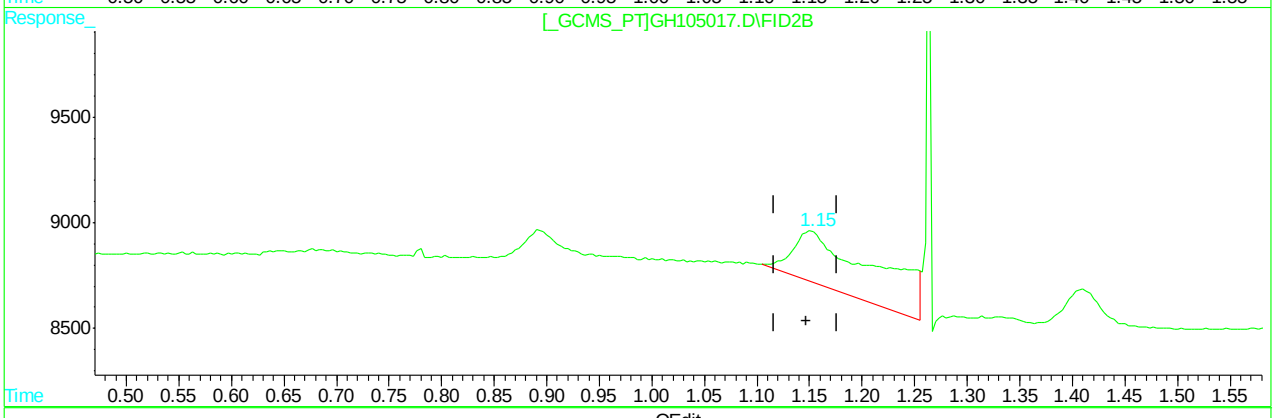
Quantitation Report (Qedit)

```
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

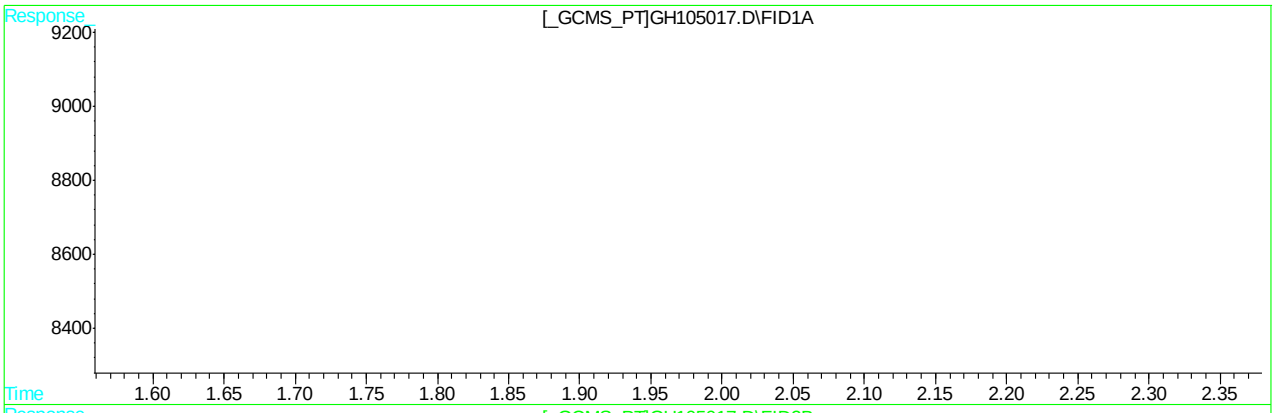
GH105017.D MGH5288.M Wed May 18 08:44:26 2016 GCGH

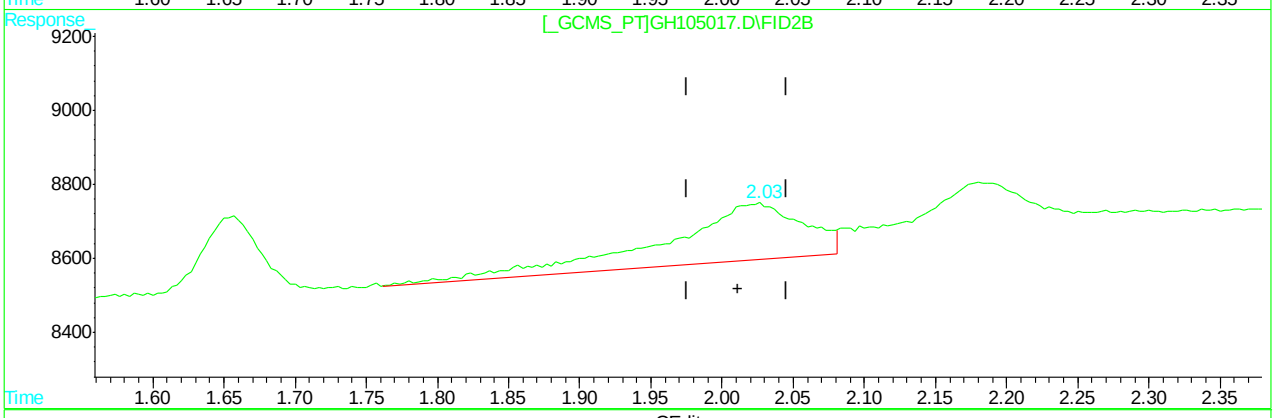
Quantitation Report (Qedit)

```
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

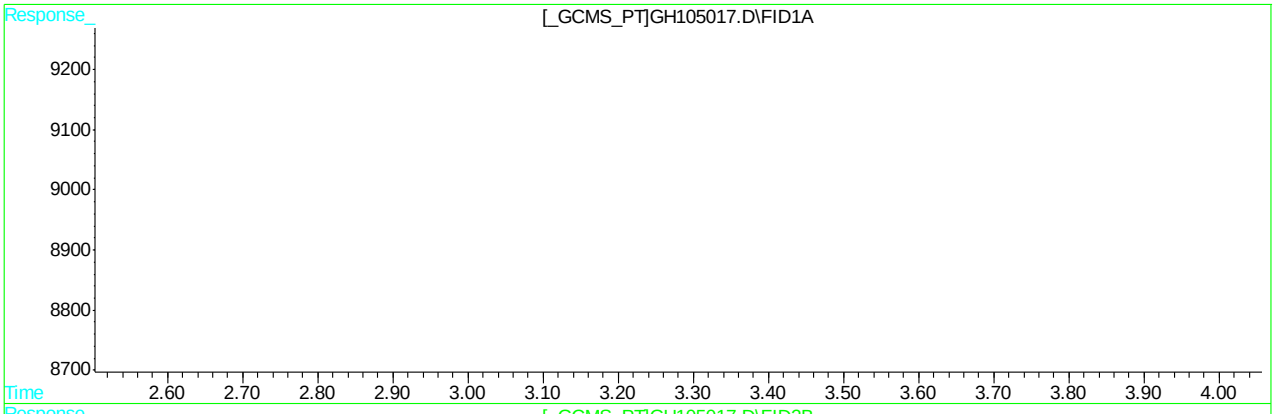
GH105017.D MGH5288.M Wed May 18 08:44:42 2016 GCGH

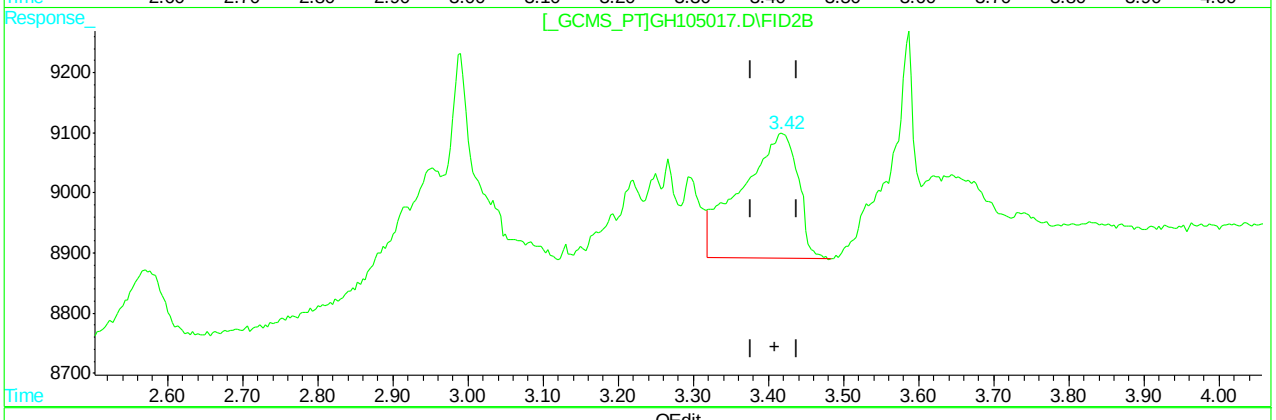
Quantitation Report (Qedit)

```
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

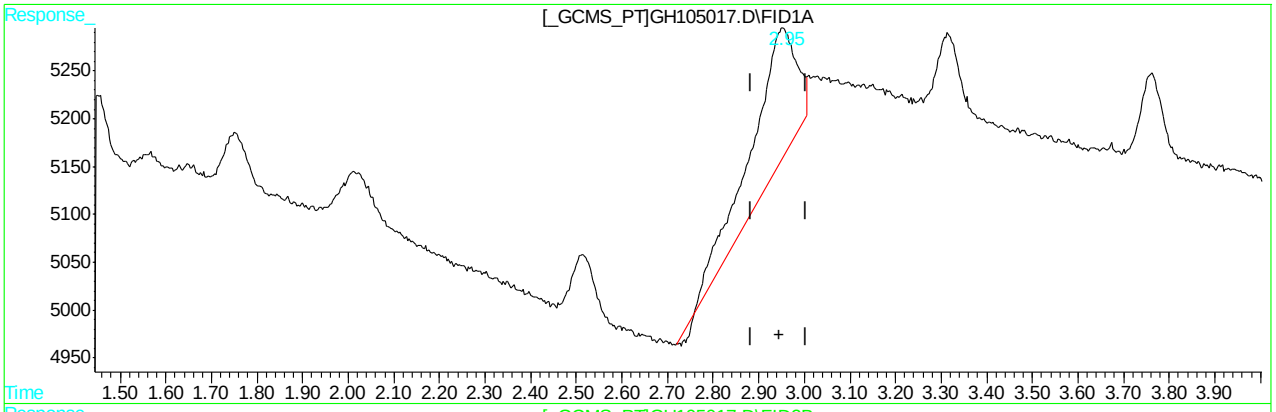
GH105017.D MGH5288.M Wed May 18 08:45:02 2016 GCGH

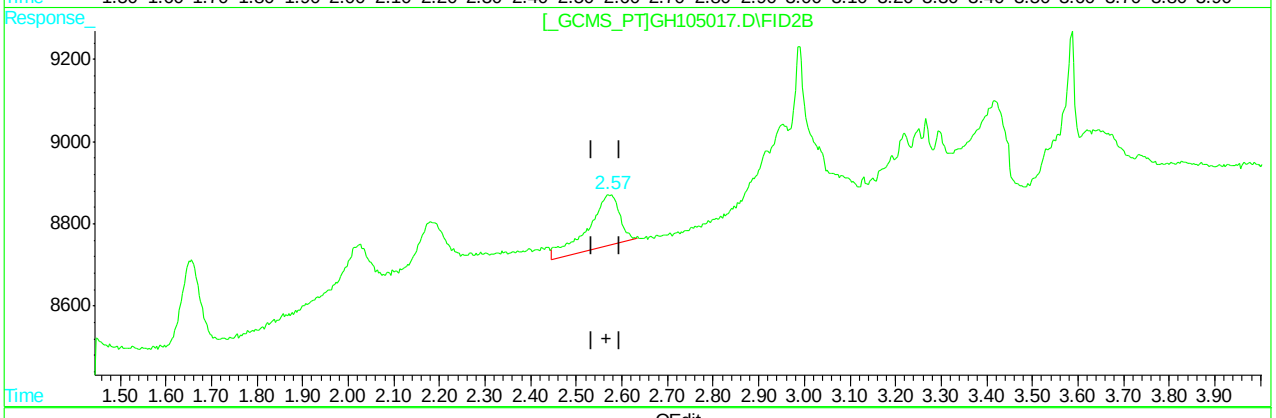
Quantitation Report (Qedit)

```
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

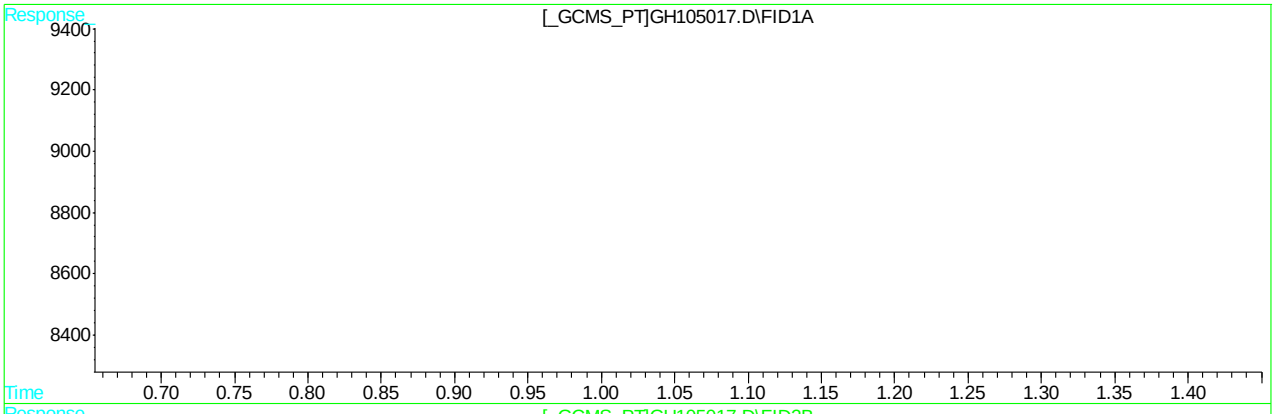
GH105017.D MGH5288.M Wed May 18 08:45:09 2016 GCGH

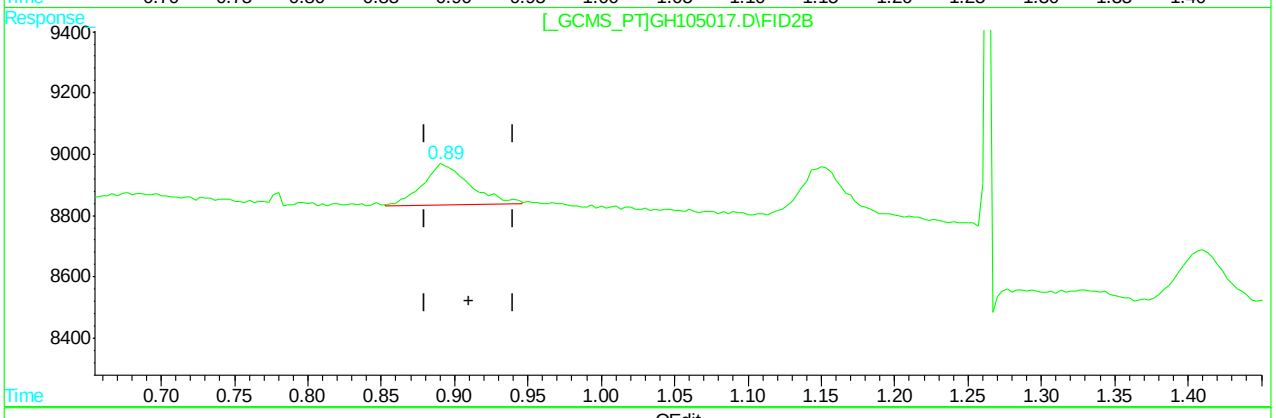
Quantitation Report (Qedit)

```
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

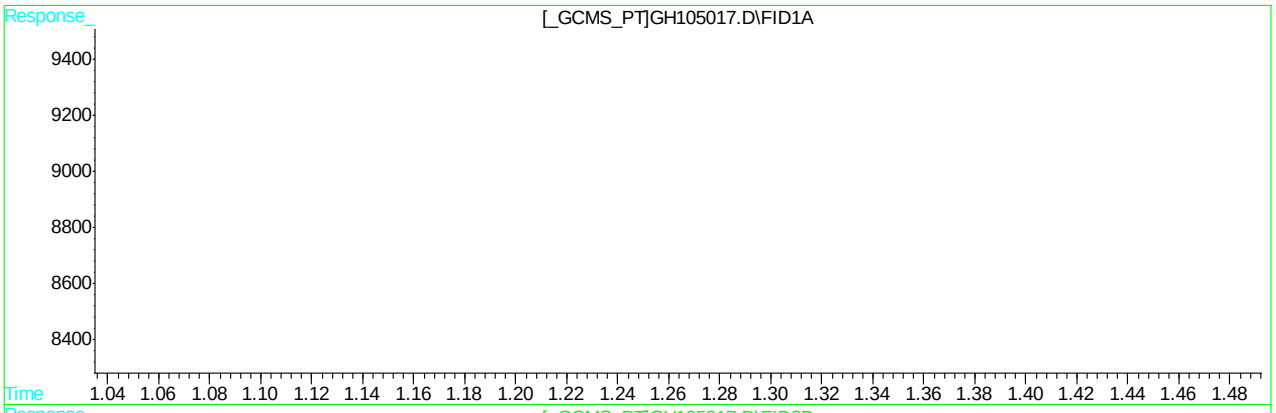
GH105017.D MGH5288.M Wed May 18 08:46:19 2016 GCGH

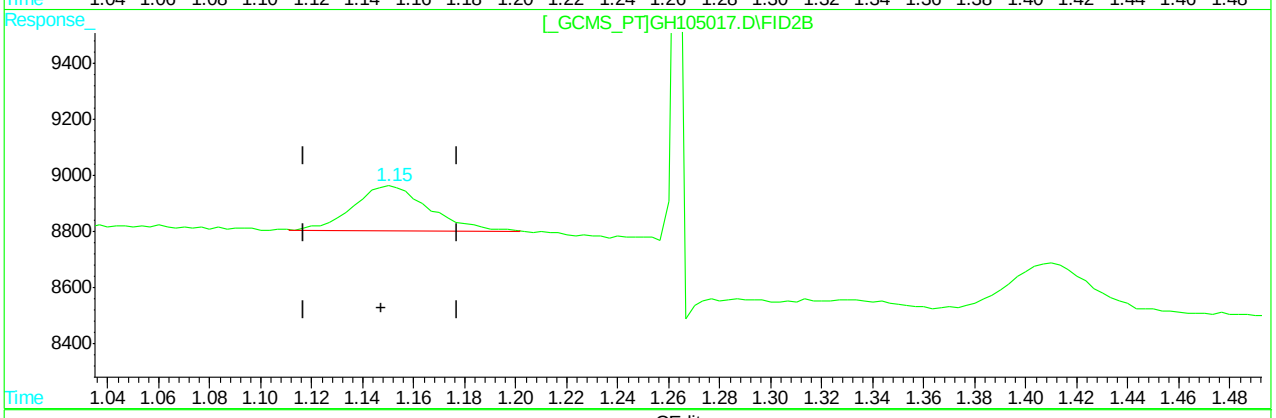
Quantitation Report (Qedit)

```
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

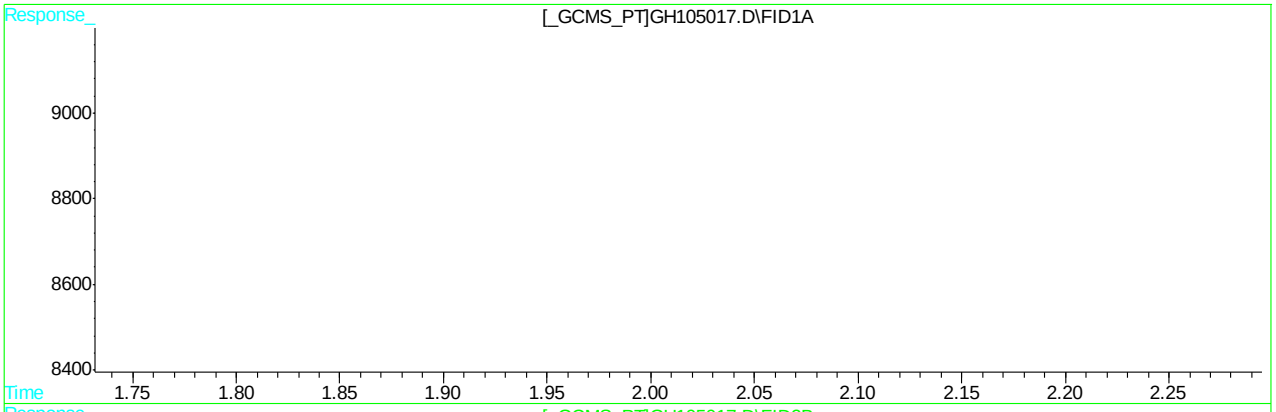
GH105017.D MGH5288.M Wed May 18 08:46:55 2016 GCGH

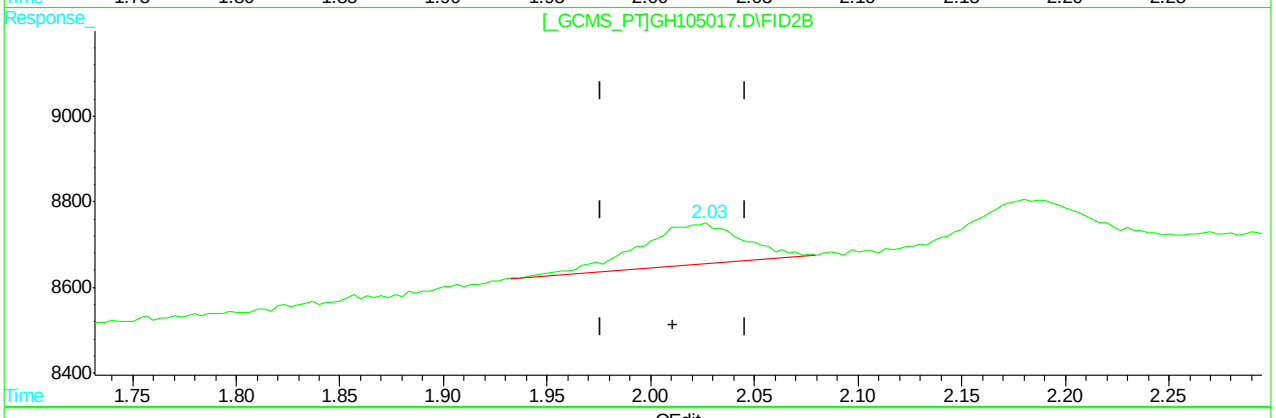
Quantitation Report (Qedit)

```
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

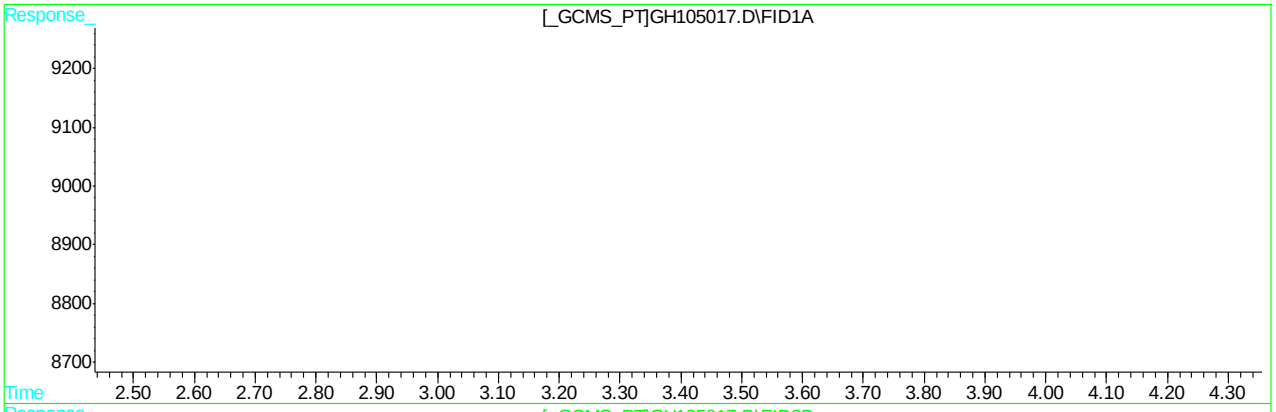
GH105017.D MGH5288.M Wed May 18 08:48:45 2016 GCGH

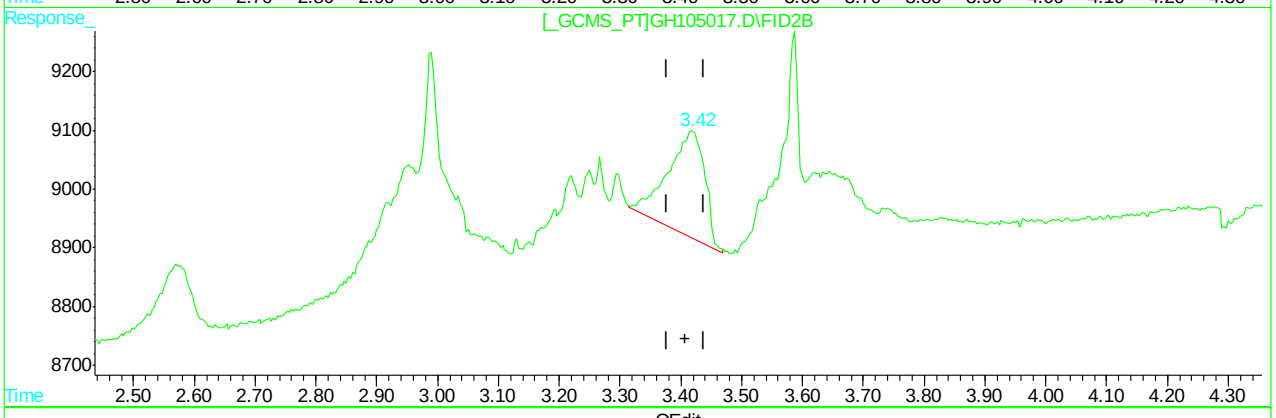
Quantitation Report (Qedit)

```
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

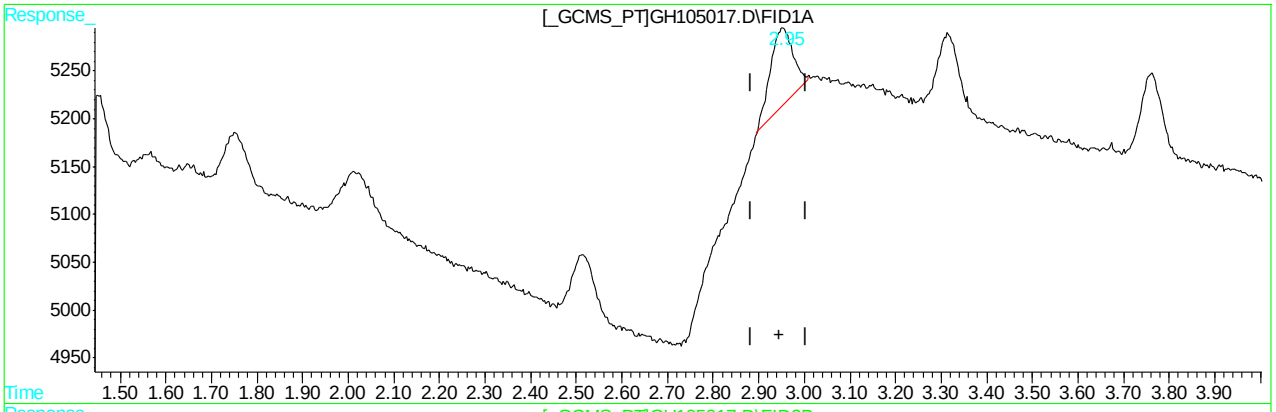
GH105017.D MGH5288.M Wed May 18 08:49:10 2016 GCGH

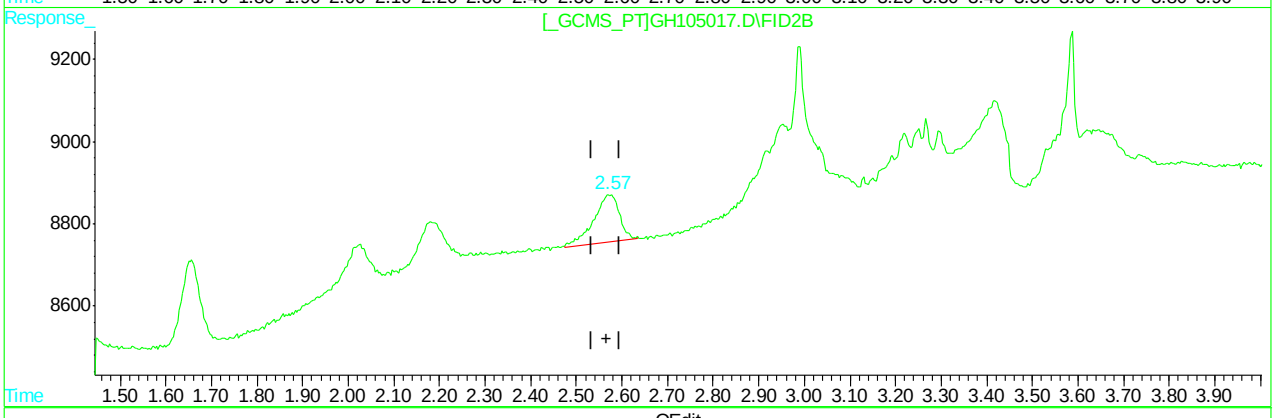
Quantitation Report (Qedit)

```
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.

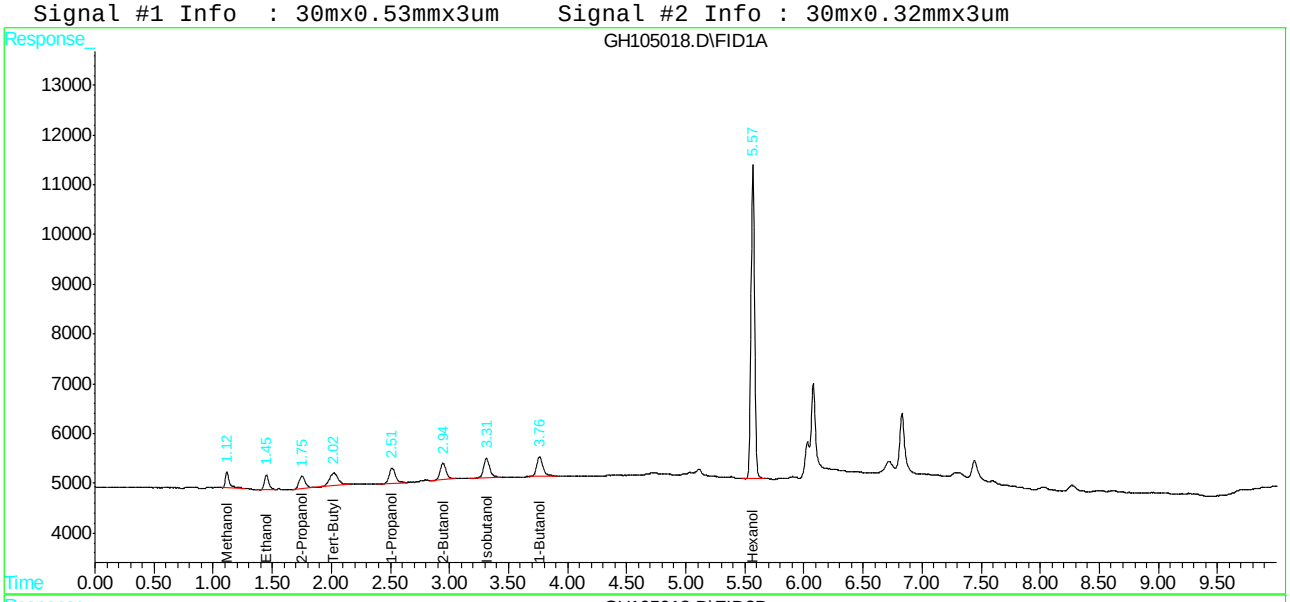
Quantitation Report (QT Reviewed)

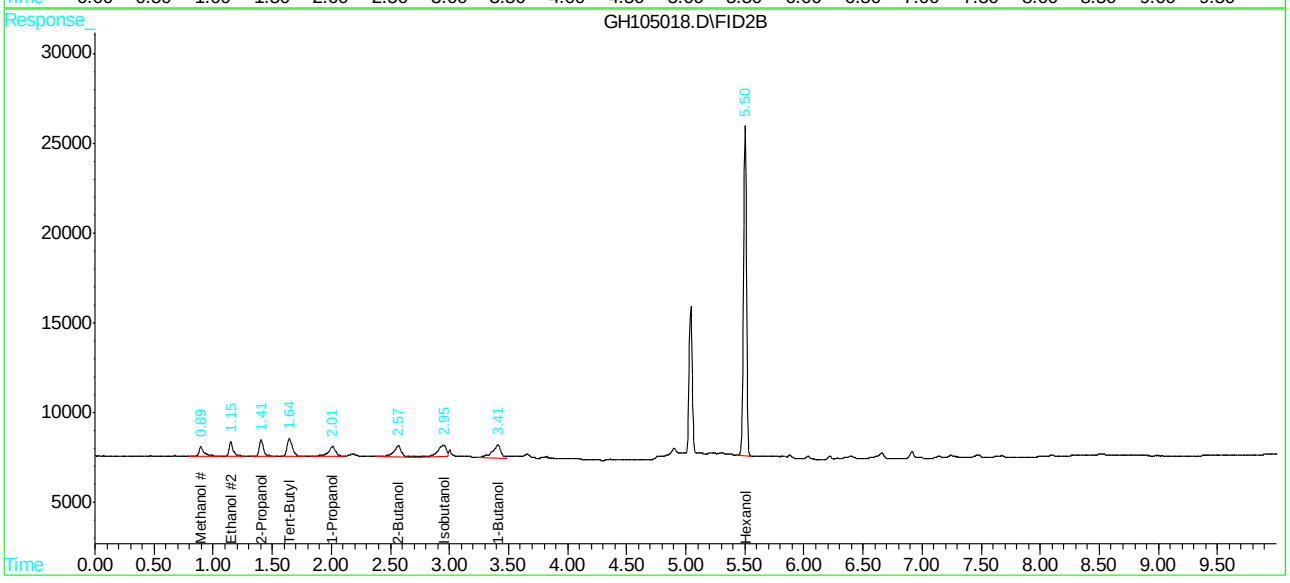
```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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
```





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.
GH105019.D MGH5288.M Wed May 18 08:51:52 2016 GCGH

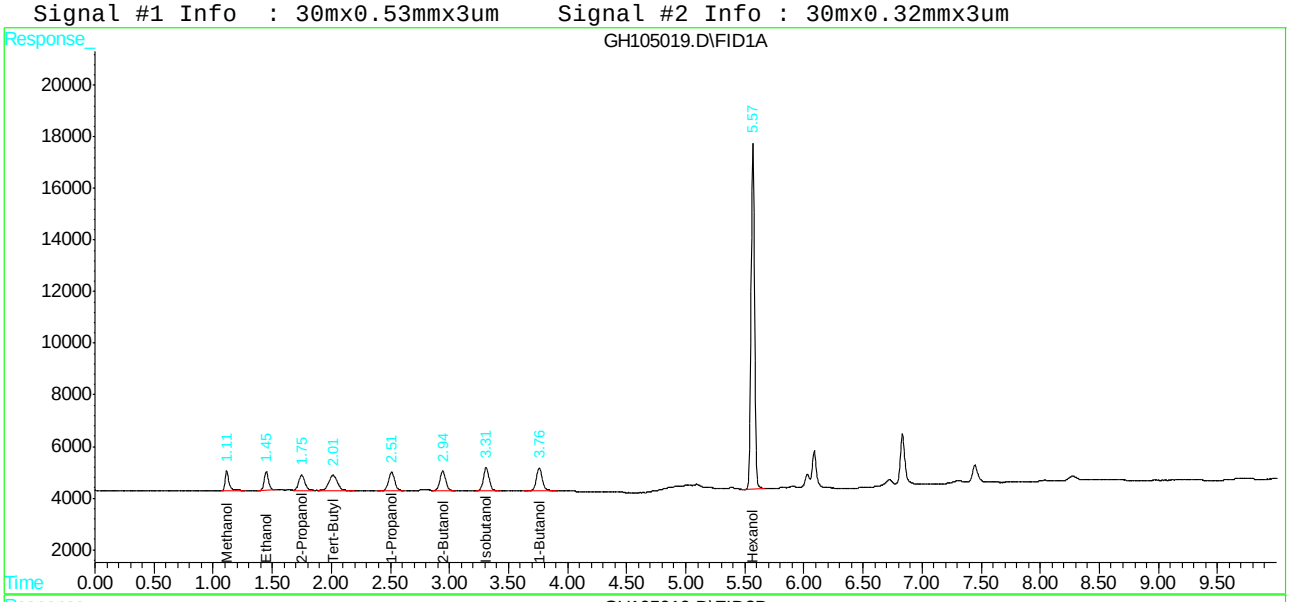
Quantitation Report (QT Reviewed)

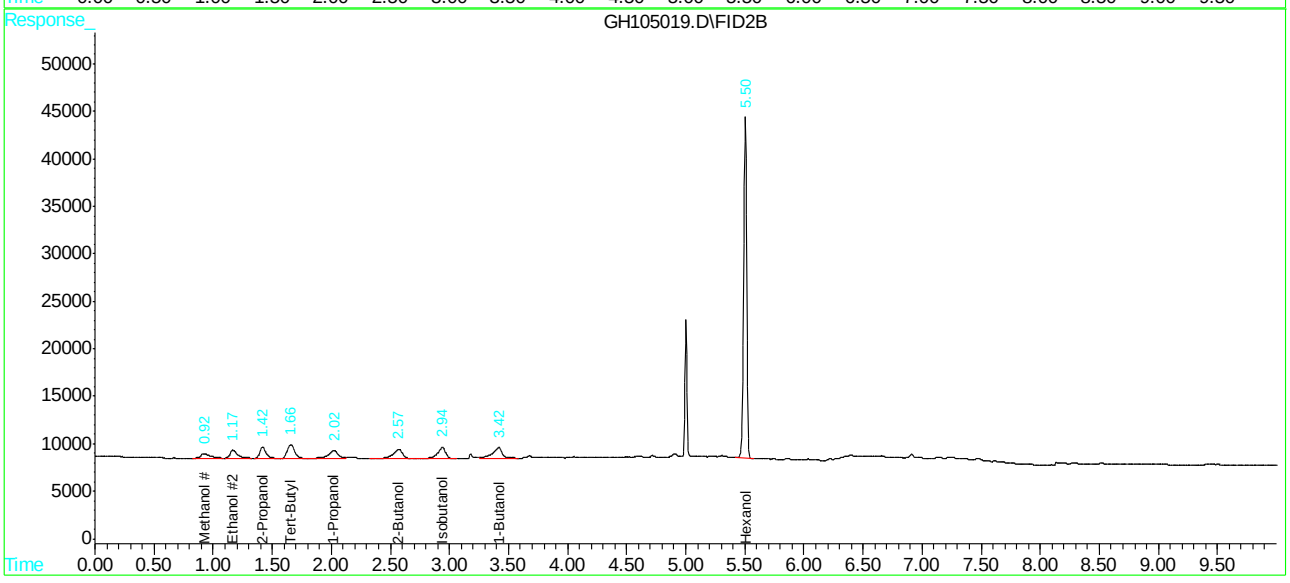
```
Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH          Vial: 4
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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.

SGS ACCUTEST JC22206

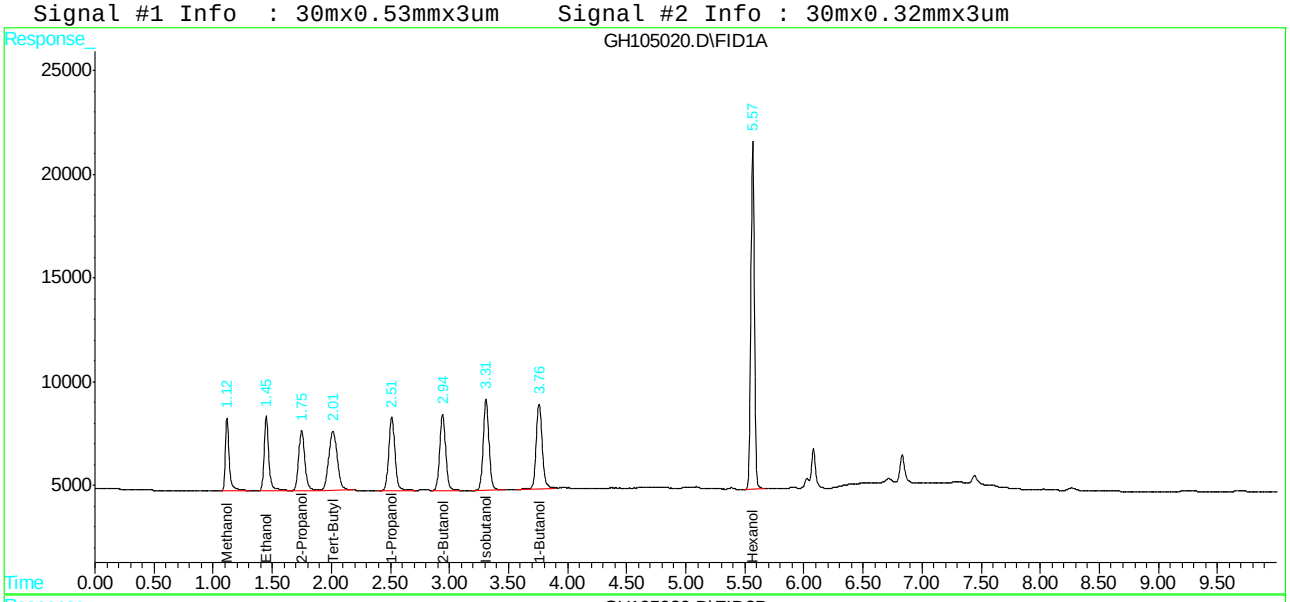
Quantitation Report (QT Reviewed)

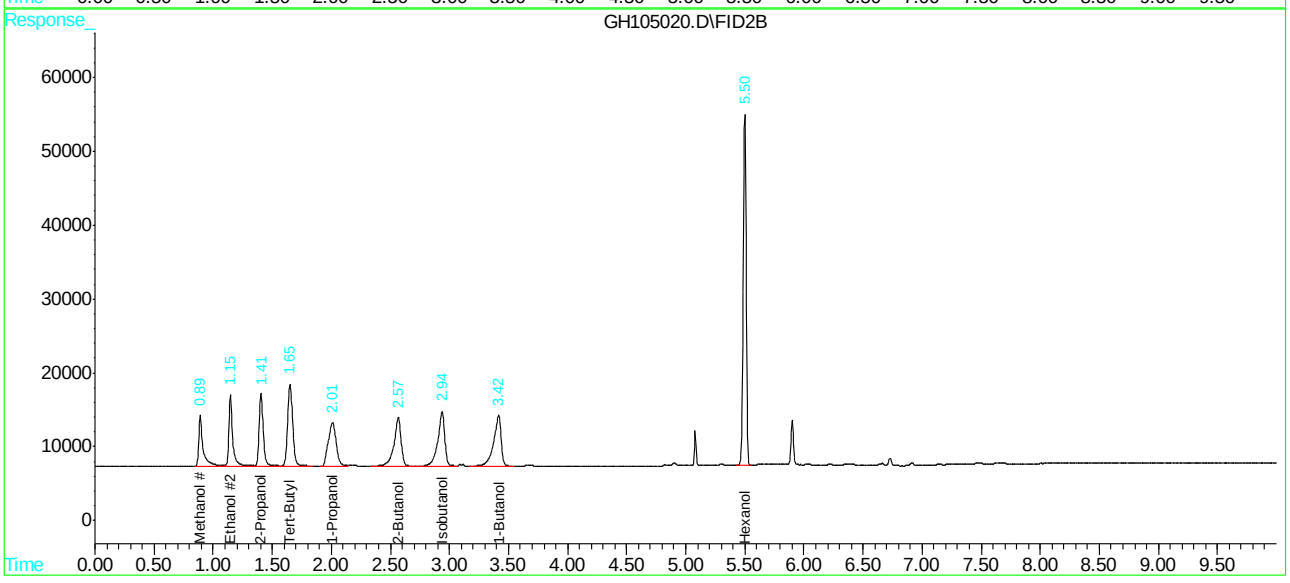
```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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.

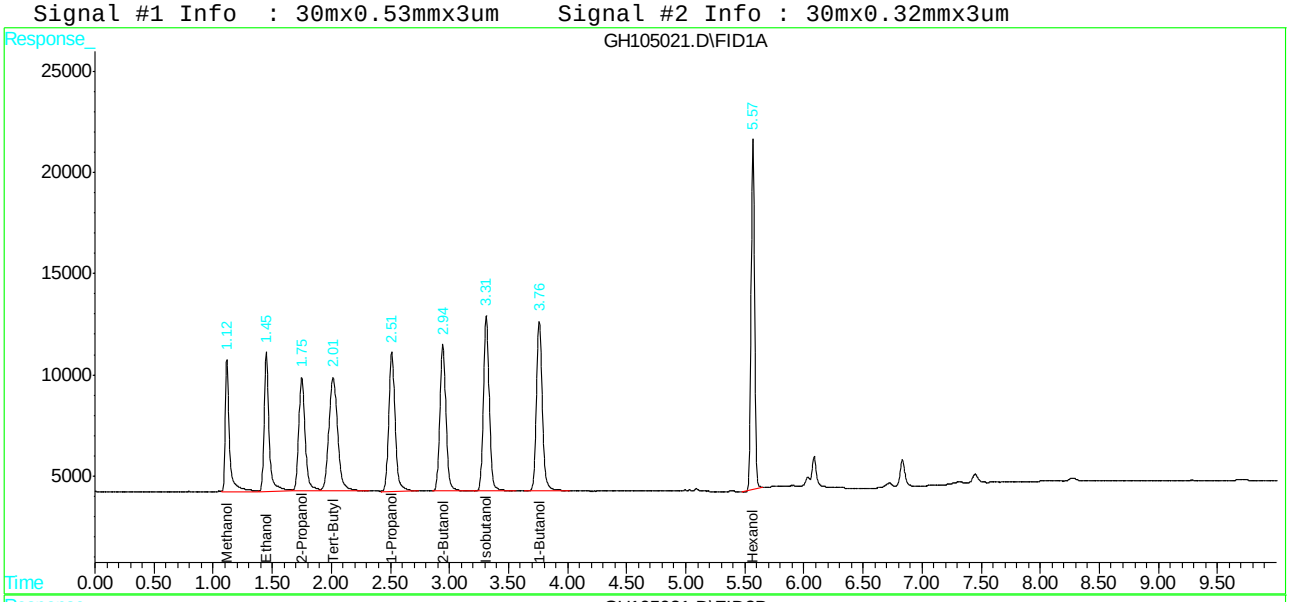
Quantitation Report (QT Reviewed)

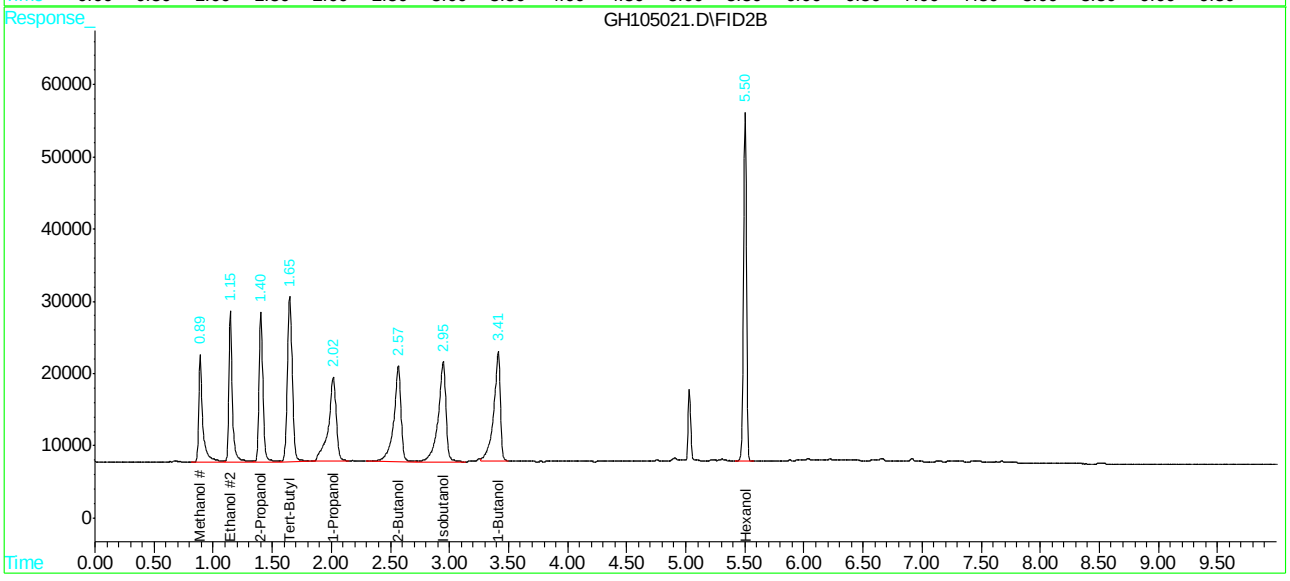
```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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
```





SGS ACCUTEST JC22206

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.

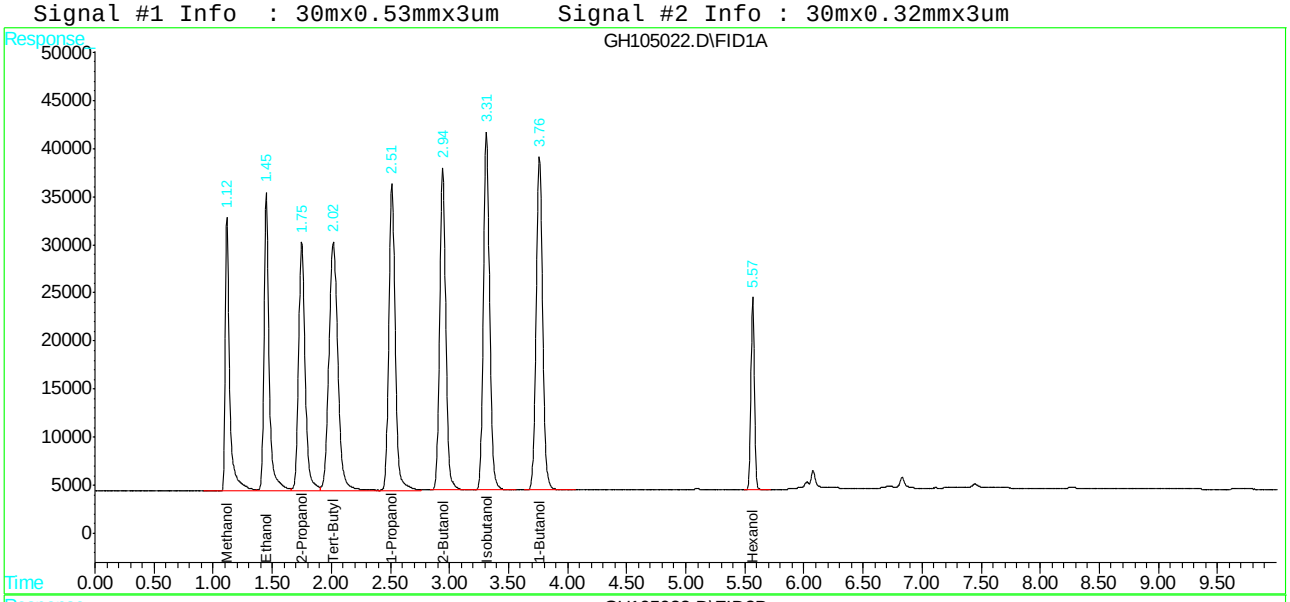
Quantitation Report (QT Reviewed)

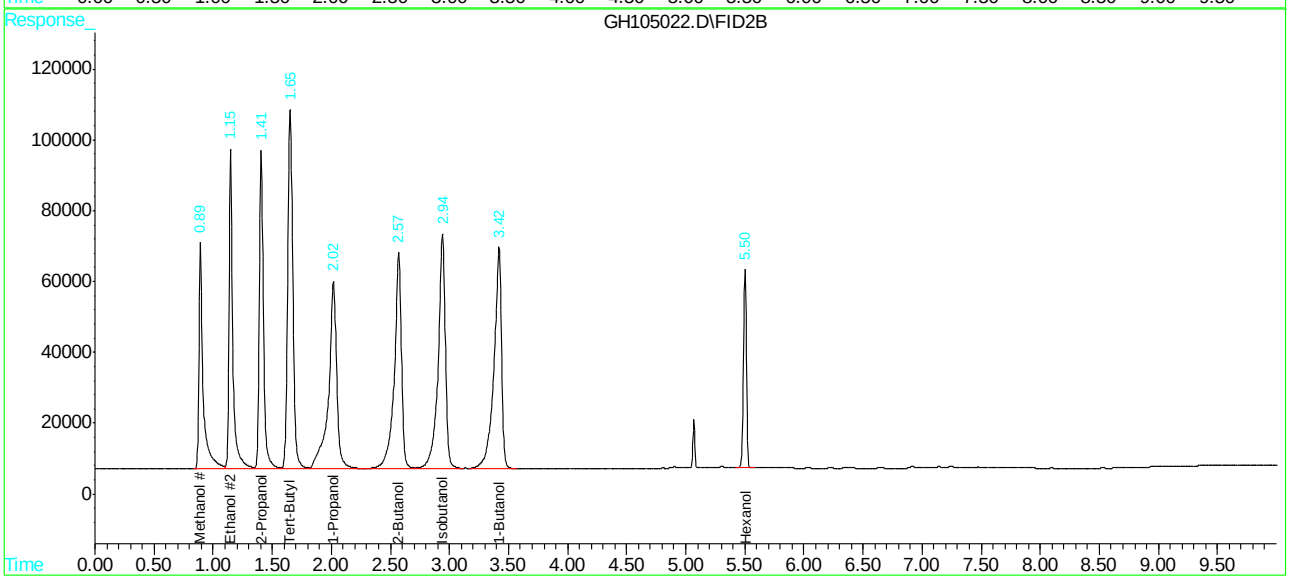
```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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
```





SGS ACCUTEST JC22206

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.

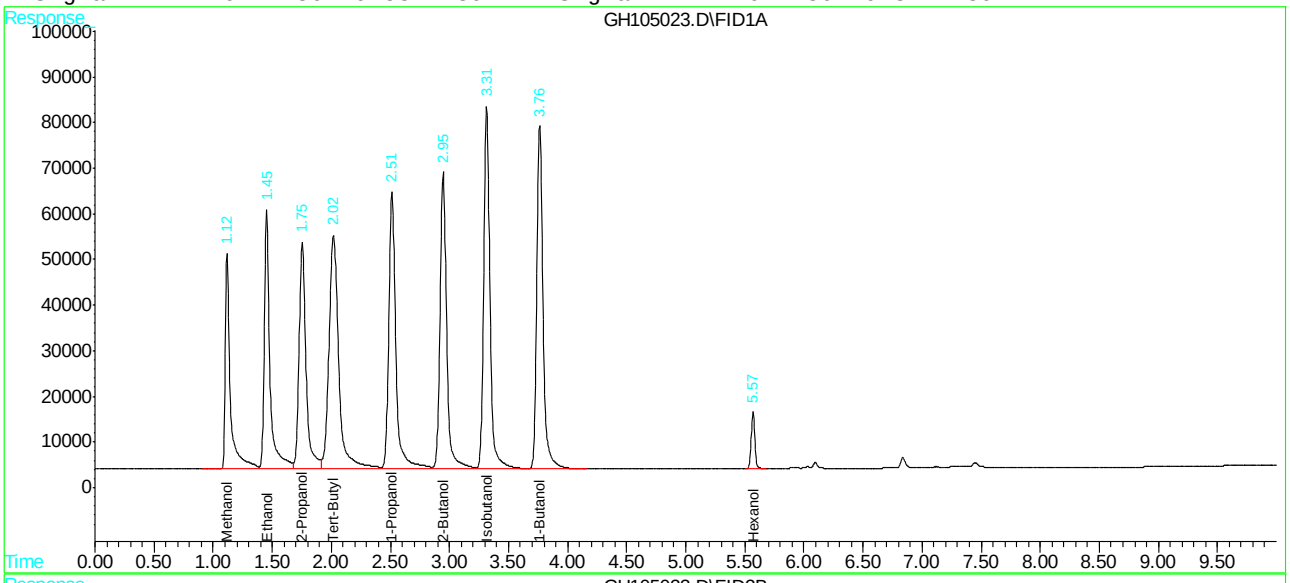
Quantitation Report (QT Reviewed)

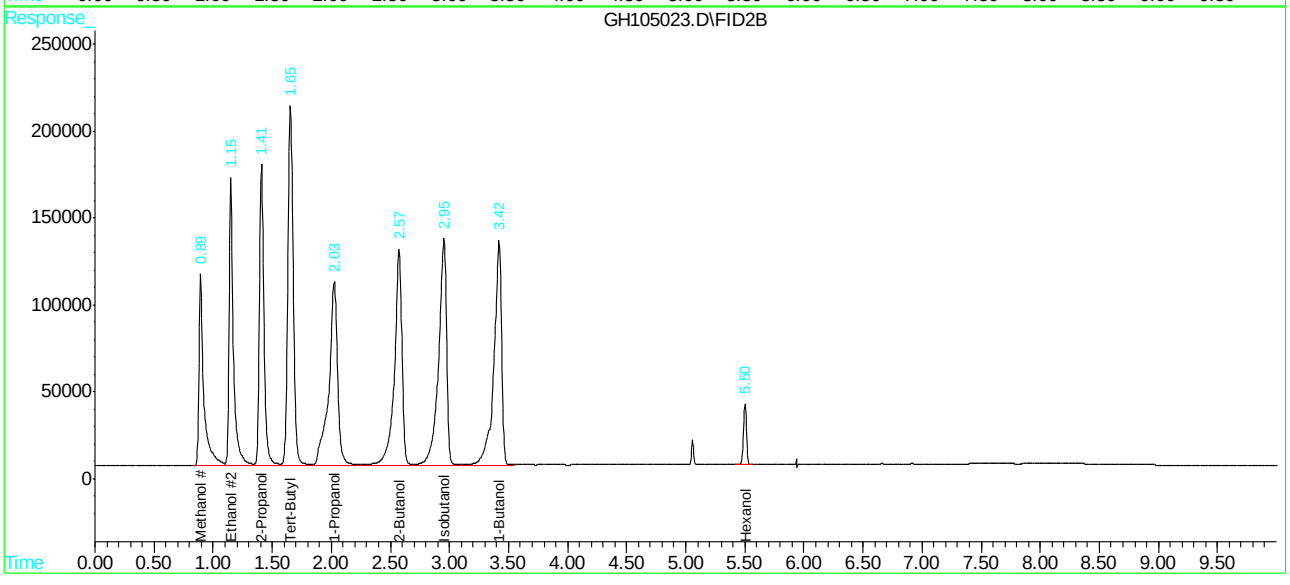
```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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.

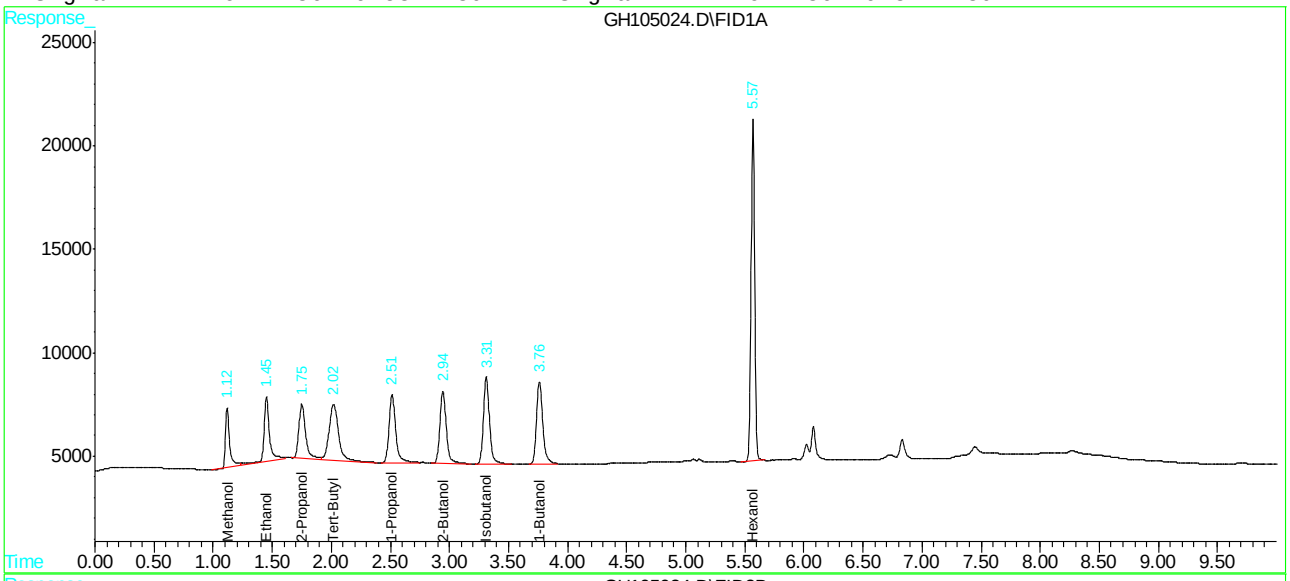
Quantitation Report (QT Reviewed)

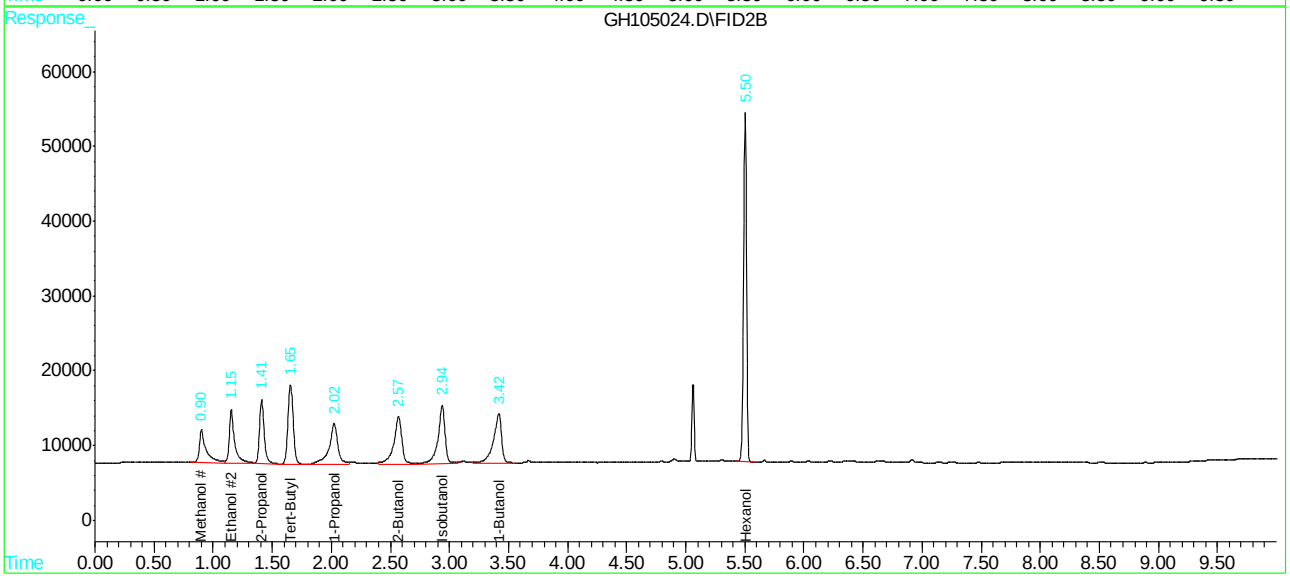
```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

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\GH105523.D\FID1A.CH          Vial: 92
Acq On    : 16 Jun 2016  12:13 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105523.D\FID2B.CH          Vial: 92
Acq On    : 16 Jun 2016  12:29 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:15 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:13:03 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	5.44	363736	795331	5380.973	5119.687
Spiked Amount 5000.000			Recovery	=	107.62%	102.39%
Target Compounds						
1) Methanol	1.12	0.88	70435	154360	4556.348	4785.716
2) Ethanol	1.45	1.14	98209	203616	5182.464	5108.153
3) Tert-Butyl Alcoh	2.01	1.63	149845	329969	5288.375	5189.580
4) 1-Propanol	2.51	1.97	129146	256115	5308.933	5037.428
5) 2-Propanol	1.75	1.39	107607	223136	5398.992	4928.017
6) Isobutanol	3.30	2.92	134688	282624	4681.377	4616.439
7) 1-Butanol	3.75	3.39	140911	278390	4933.754	4207.195
8) 2-Butanol	2.94	2.54	129796	265125	5063.361	4884.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

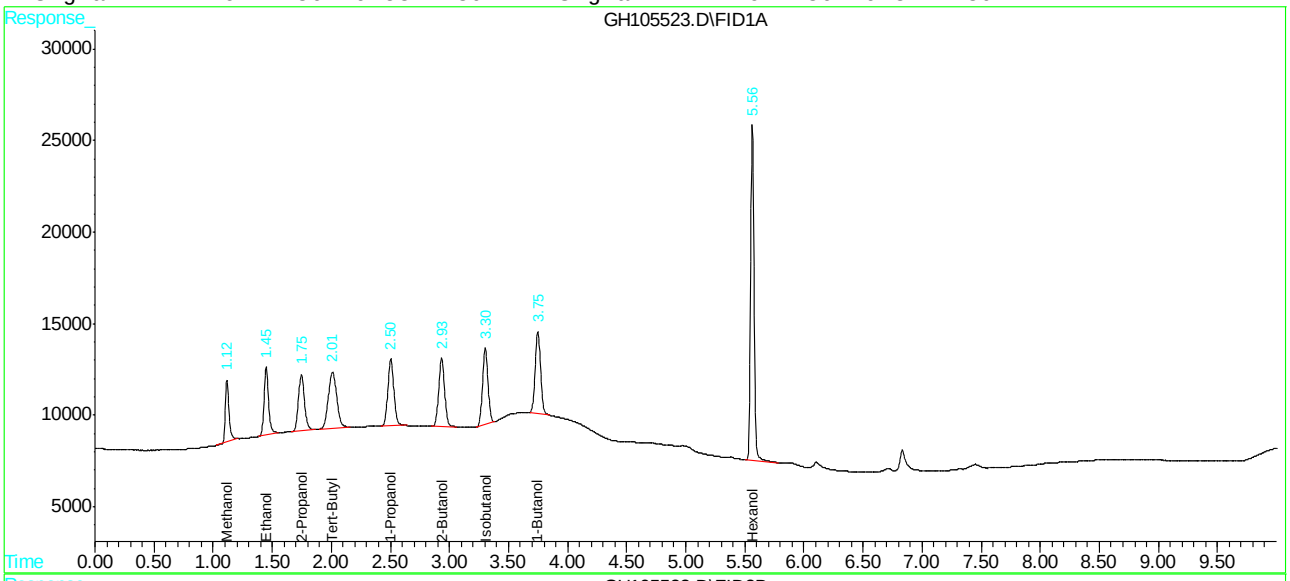
Quantitation Report (QT Reviewed)

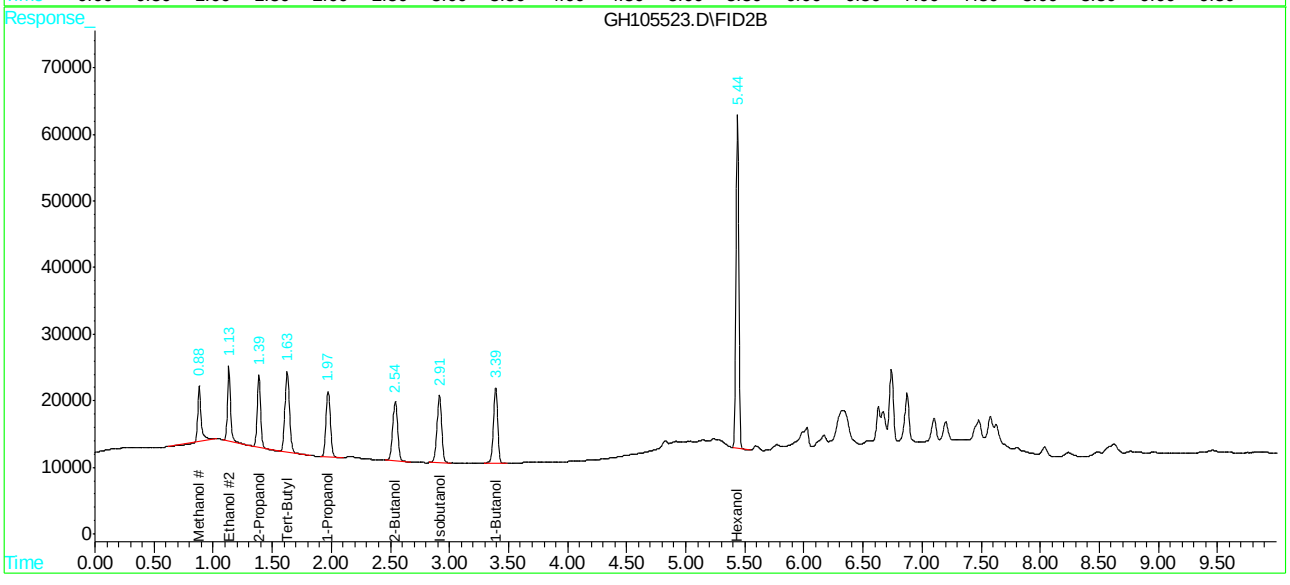
```
Data File : C:\HPCHEM\1\DATA\GH105523.D\FID1A.CH          Vial: 92
Acq On    : 16 Jun 2016  12:13 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105523.D\FID2B.CH          Vial: 92
Acq On    : 16 Jun 2016  12:29 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17  9:15 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:13:03 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 JC22206

Manual Integrations
APPROVED
(compounds with "m" flag)
Dana Tryon
06/21/16 17:20

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 16 15:41:25 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	5.44	342291	728769	5063.719	4691.216
	Spiked Amount 5000.000			Recovery	=	101.27%	93.82%
	Target Compounds						
1)	Methanol	1.12	0.89	169065	333419	10936.546	10337.215
2)	Ethanol	1.45	1.14	213583	402599	11270.745	10100.103
3)	Tert-Butyl Alcoh	2.02	1.63	310260	696120	10949.776	10948.223
4)	1-Propanol	2.51	1.98	281082	527466	11554.707	10374.511
5)	2-Propanol	1.75	1.39	224484	480650	11263.038	10615.270
6)	Isobutanol	3.31	2.91f	310718	588238	10799.691	9608.414m
7)	1-Butanol	3.75	3.39	298127	584059	10438.389	8826.640
8)	2-Butanol	2.94	2.55	281265	544041	10972.149	10022.050m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH105533.D MGH5288.M Fri Jun 17 10:23:27 2016 GCGH

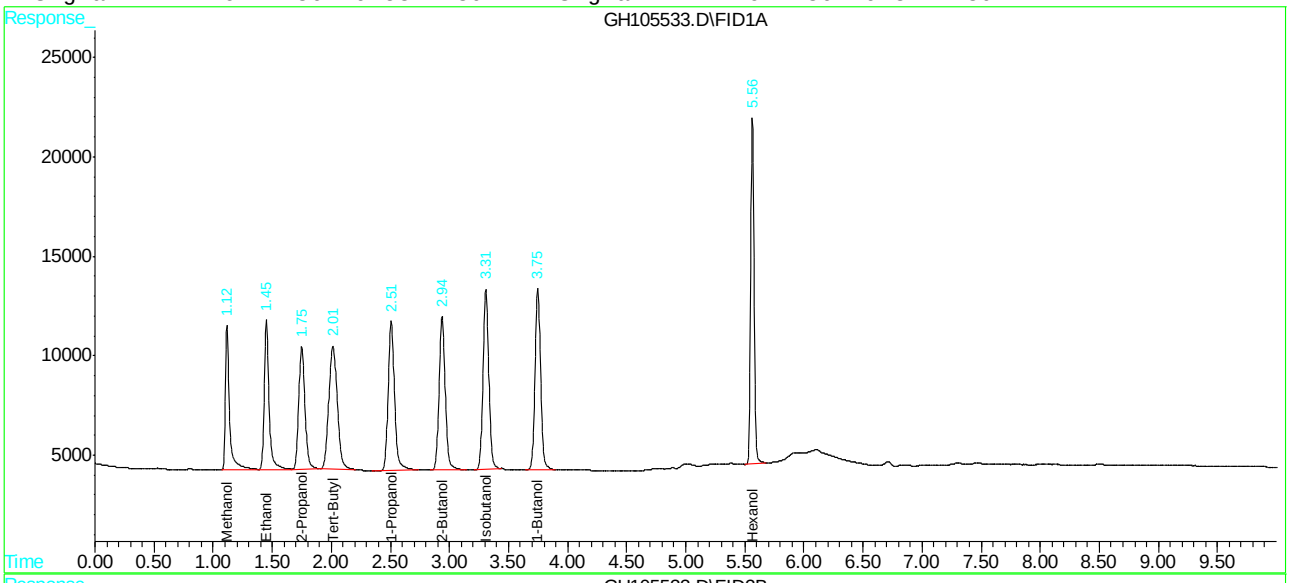
Quantitation Report (QT Reviewed)

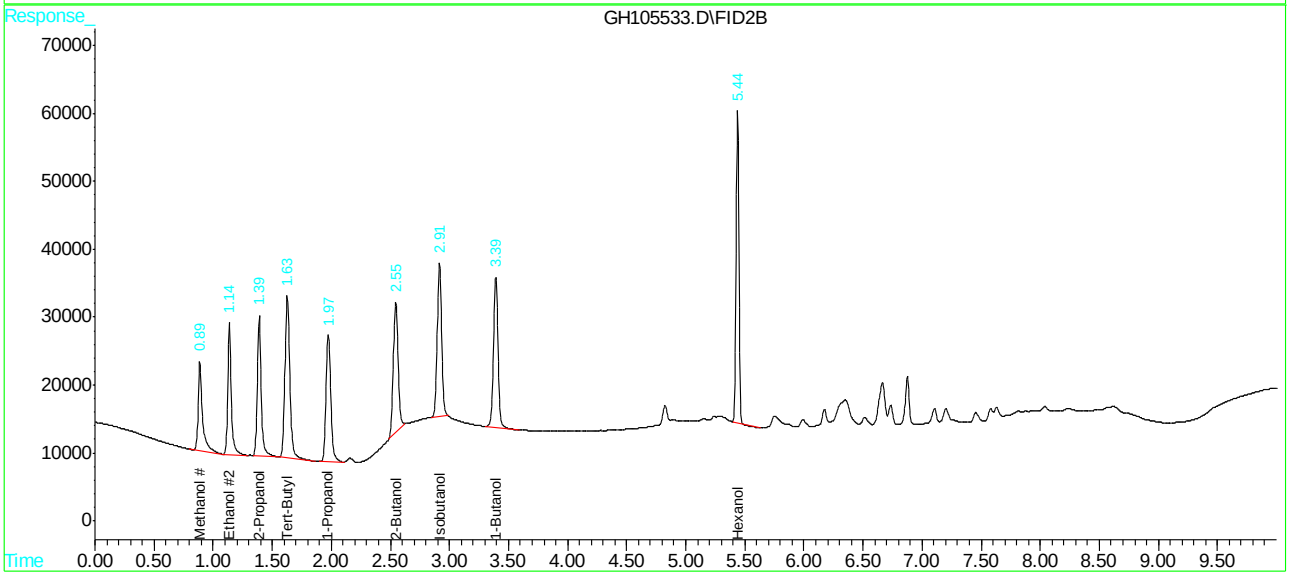
```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 16 15:41:25 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:	GGH5324-CC5288	**Method:**	SW846-8015C (DAI)
Lab FileID:	GH105533.D	**Analyst approved:**	06/17/16 10:44 Xu Liu
Injection Time:	06/16/16 14:56	**Supervisor approved:**	06/21/16 17:20 Dana Tryon

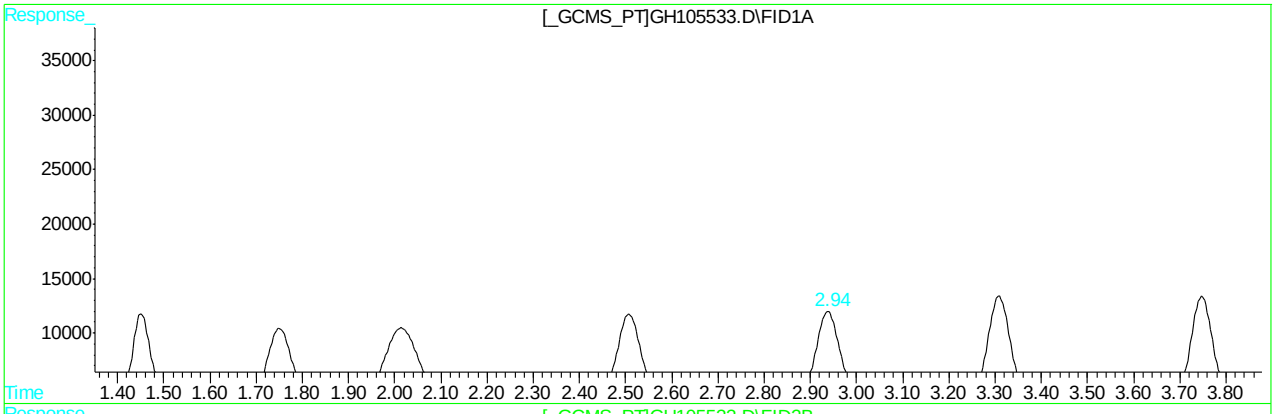
Parameter	CAS	Sig#	R.T. (min.)	Reason
sec-Butyl Alcohol	78-92-2	2	2.55	Poor instrument integration
Isobutyl Alcohol	78-83-1	2	2.91	Poor instrument integration

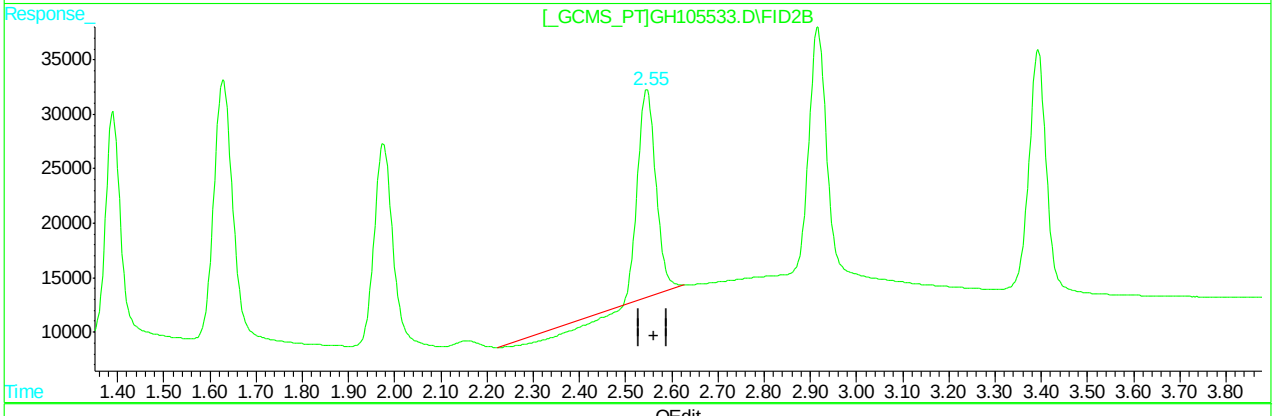
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 16 15:41 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:59:05 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.94min 10972.149PPB

response 281265

(8) 2-Butanol #2

2.55min 8067.851PPB

response 437958

(+) = Expected Retention Time

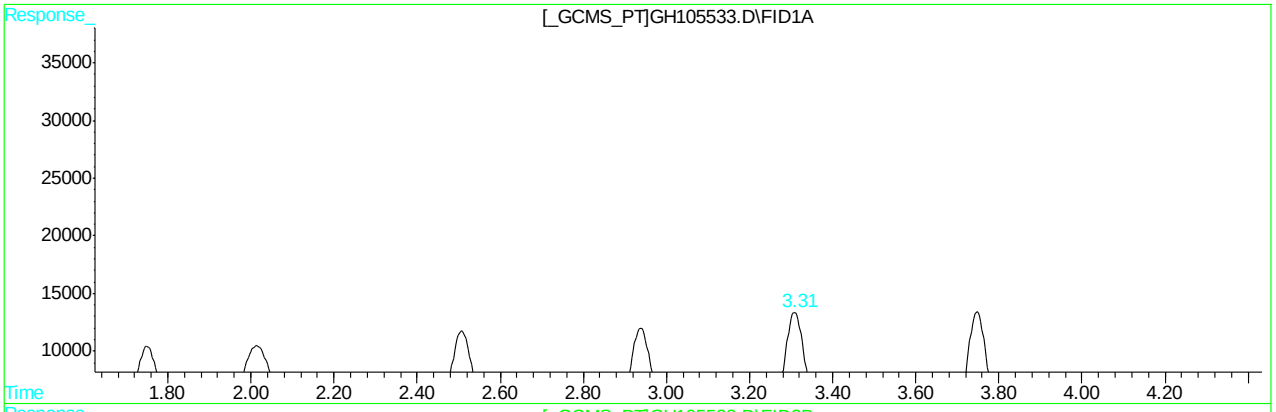
GH105533.D MGH5288.M Fri Jun 17 10:20:55 2016 GCGH

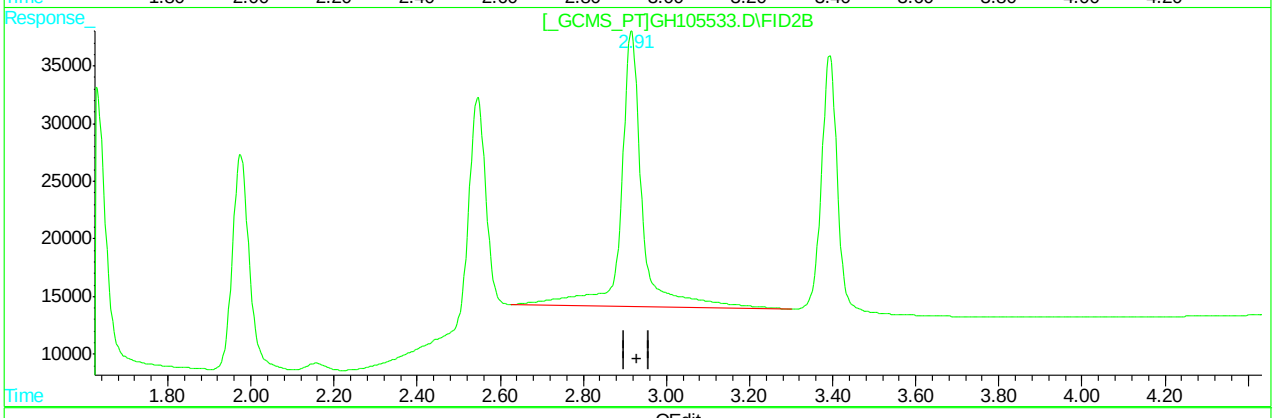
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 16 15:41 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:59:05 2016
Response via : Multiple Level Calibration
```





QEdit

(6) Isobutanol

3.31min 10799.691PPB

response 310718

(6) Isobutanol #2

2.92min 13917.057PPB

response 852018

(+) = Expected Retention Time

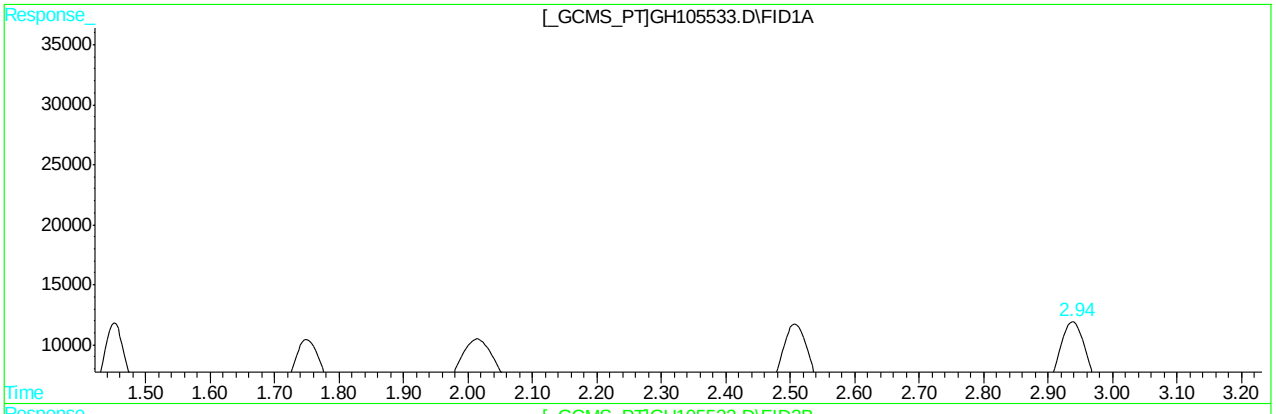
GH105533.D MGH5288.M Fri Jun 17 10:21:03 2016 GCGH

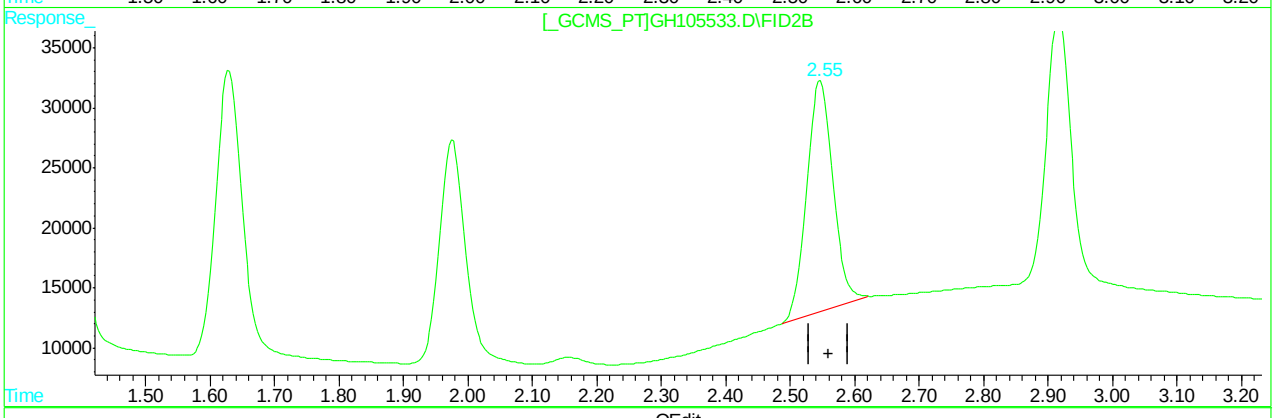
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 16 15:41 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:59:05 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.94min 10972.149PPB

response 281265

(8) 2-Butanol #2

2.55min 10022.050PPB m

response 544041

(+) = Expected Retention Time

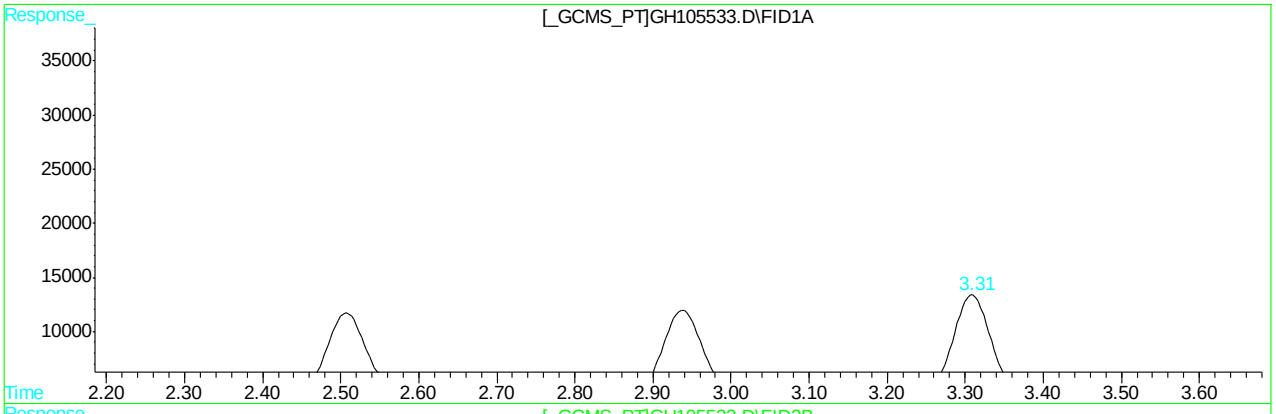
GH105533.D MGH5288.M Fri Jun 17 10:22:16 2016 GCGH

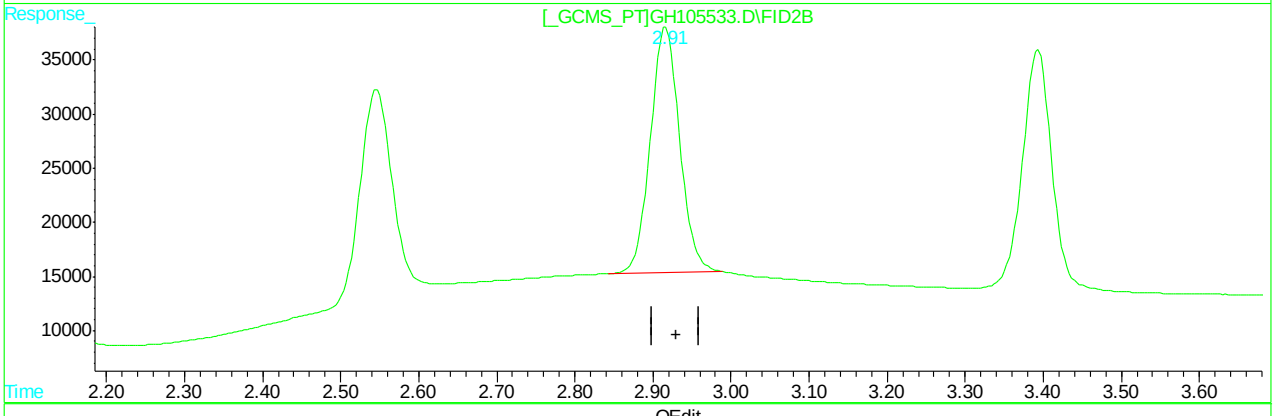
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105533.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   2:56 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105533.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   3:13 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48614,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 16 15:41 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:59:05 2016
Response via : Multiple Level Calibration
```





QEdit

(6) Isobutanol

3.31min 10799.691PPB

response 310718

(6) Isobutanol #2

2.91min 9608.414PPB m

response 588238

(+) = Expected Retention Time

GH105533.D MGH5288.M Fri Jun 17 10:23:11 2016 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105543.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   5:41 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48618,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105543.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   5:57 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48618,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:03 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:59:05 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	5.44	346423	786941	5124.852	5065.679
	Spiked Amount 5000.000			Recovery	=	102.50%	101.31%
	Target Compounds						
1)	Methanol	1.12	0.89	76966	140307	4978.798	4350.020
2)	Ethanol	1.45	1.14	97461	213016	5142.998	5343.990
3)	Tert-Butyl Alcoh	2.01	1.63	144179	347036	5088.403	5458.008
4)	1-Propanol	2.50	1.98	129722	232696	5332.634	4576.806
5)	2-Propanol	1.75	1.39	102312	254855	5133.304	5628.522
6)	Isobutanol	3.30	2.92	144199	255659	5011.965	4175.995
7)	1-Butanol	3.76	3.40	129858	281743	4546.760	4257.869
8)	2-Butanol	2.93	2.55	131701	235050	5137.661	4329.972

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

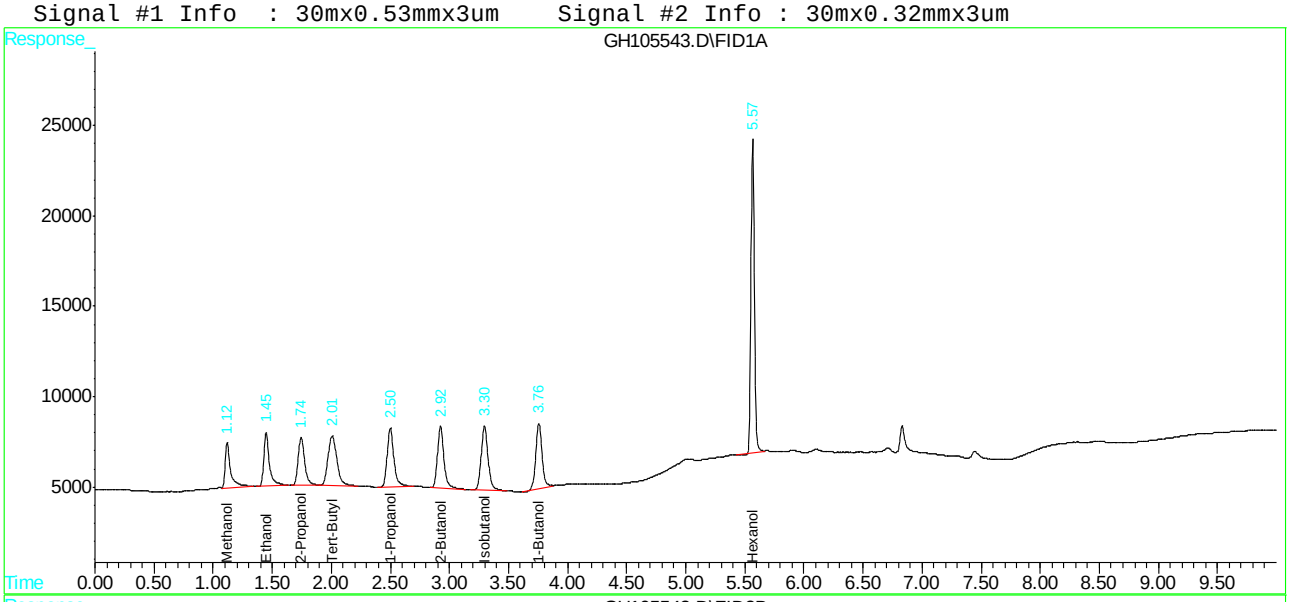
Quantitation Report (QT Reviewed)

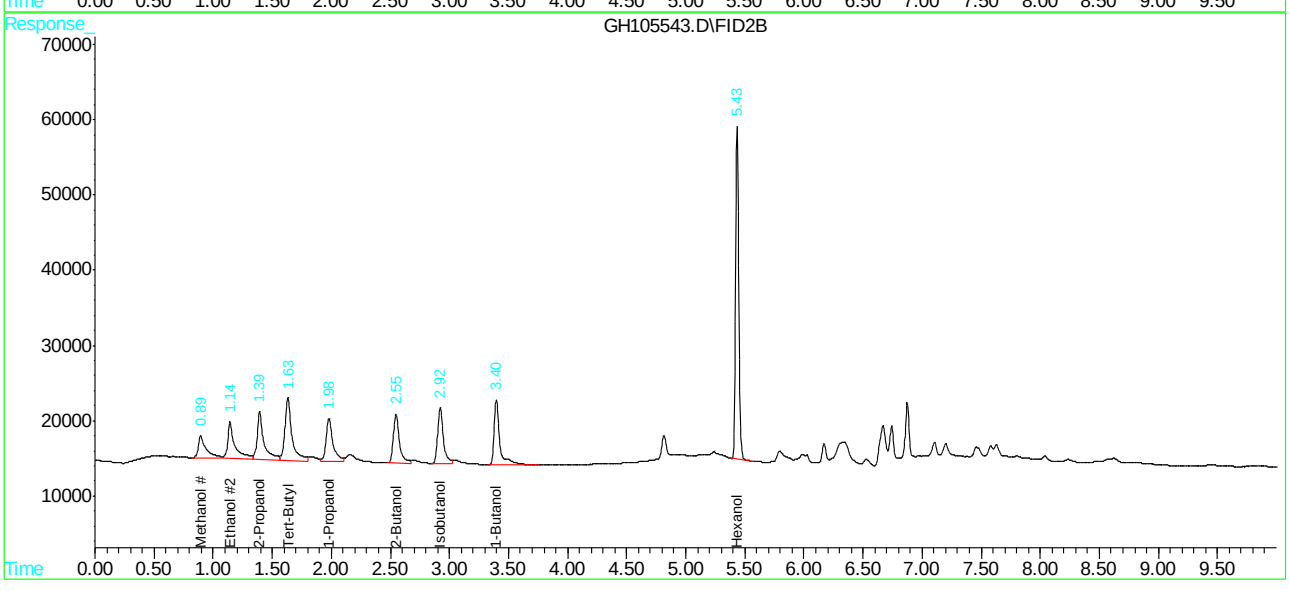
```
Data File : C:\HPCHEM\1\DATA\GH105543.D\FID1A.CH          Vial: 95
Acq On    : 16 Jun 2016   5:41 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48618,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105543.D\FID2B.CH          Vial: 95
Acq On    : 16 Jun 2016   5:57 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48618,GGH5324,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 17 10:03 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Fri Jun 17 09:59:05 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\GH105570.D\FID1A.CH          Vial: 95
Acq On    : 20 Jun 2016  12:50 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48626,GGH5327,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105570.D\FID2B.CH          Vial: 95
Acq On    : 20 Jun 2016   1:06 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48626,GGH5327,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 20 13:26 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 10:37:08 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	5.58	5.47	319756	792409	4730.346	5100.878
Spiked Amount	5000.000			Recovery	=	94.61%	102.02%
	Target Compounds						
1)	Methanol	1.13	0.91	159185	351812	10297.457	10907.473
2)	Ethanol	1.46	1.17	199397	438017	10522.167	10988.641
3)	Tert-Butyl Alcoh	2.03	1.67	296144	710774	10451.578	11178.693
4)	1-Propanol	2.52	2.03	264784	559436	10884.762	11003.318
5)	2-Propanol	1.76	1.43	209143	485970	10493.348	10732.768
6)	Isobutanol	3.32	2.97	294349	604655	10230.768	9876.575
7)	1-Butanol	3.77	3.44	281177	590047	9844.912	8917.131
8)	2-Butanol	2.95	2.60	264417	572826	10314.932	10552.312

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

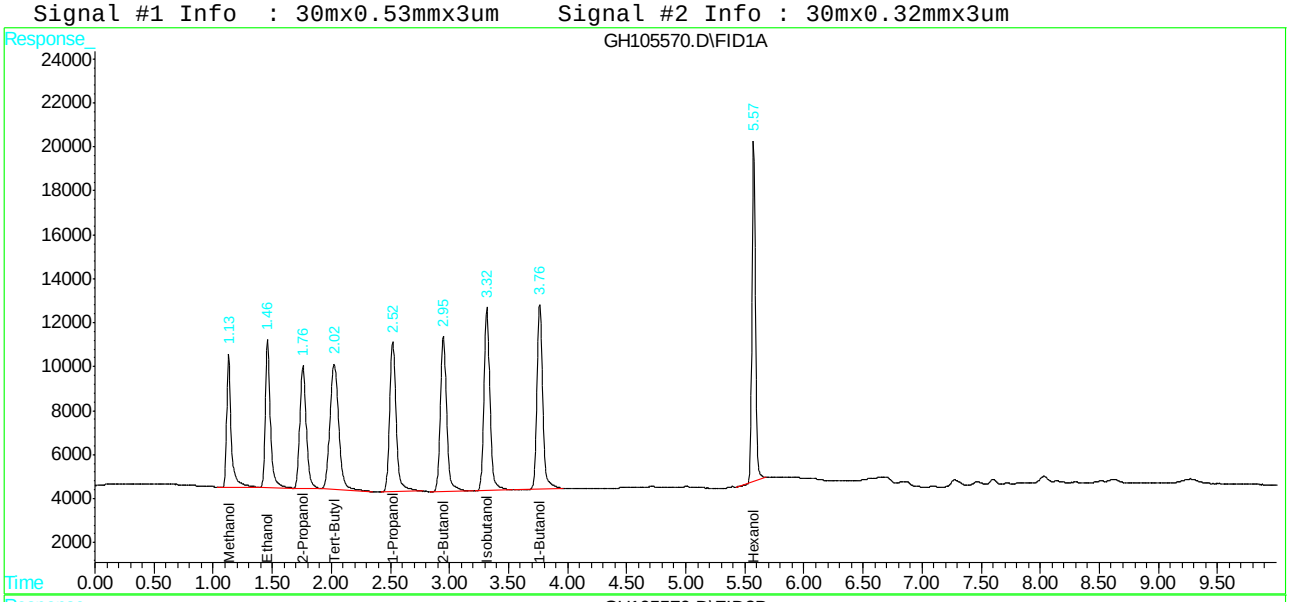
Quantitation Report (QT Reviewed)

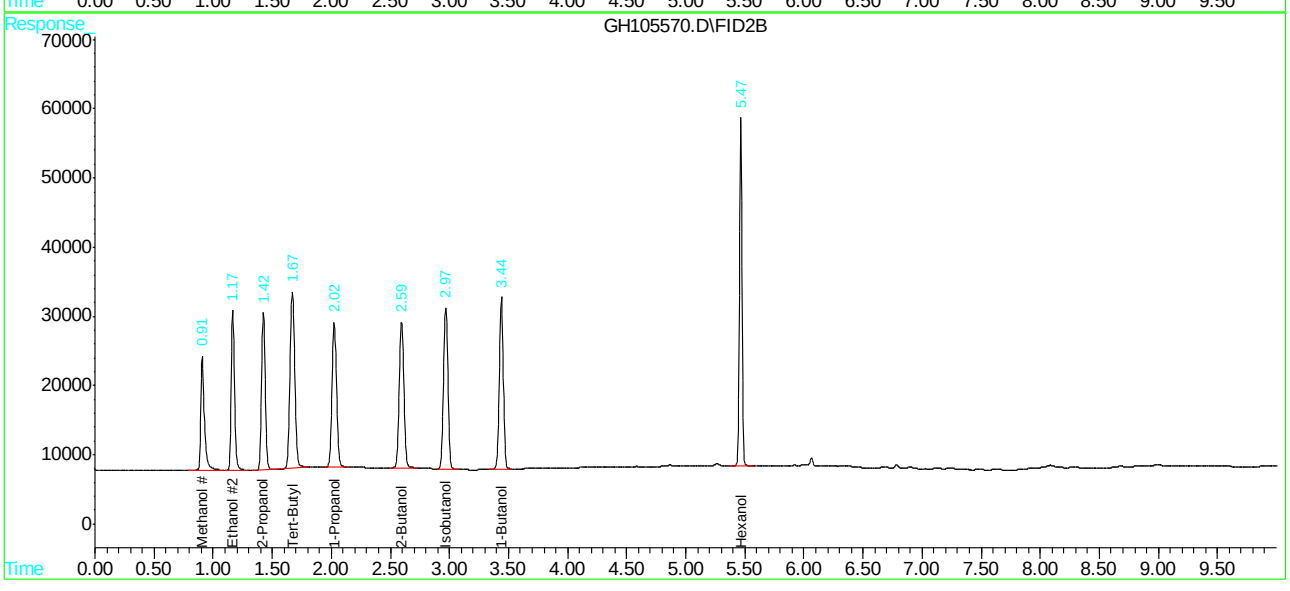
Data File : C:\HPCHEM\1\DATA\GH105570.D\FID1A.CH Vial: 95
Acq On : 20 Jun 2016 12:50 pm Operator: XULIU
Sample : CC5288-10000 Inst : GCGH
Misc : GC48626,GGH5327,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105570.D\FID2B.CH Vial: 95
Acq On : 20 Jun 2016 1:06 pm Operator: XULIU
Sample : CC5288-10000 Inst : GCGH
Misc : GC48626,GGH5327,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 20 13:26 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Mon Jun 20 10:37:08 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\GH105577.D\FID1A.CH          Vial: 25
Acq On    : 20 Jun 2016   3:40 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105577.D\FID2B.CH          Vial: 25
Acq On    : 20 Jun 2016   3:56 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 21  7:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 14:54:24 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	5.46	338544	783581	5008.295	5044.050
Spiked Amount	5000.000			Recovery	=	100.17%	100.88%
	Target Compounds						
1)	Methanol	1.13	0.90	78901	166653	5103.965	5166.847
2)	Ethanol	1.46	1.16	97532	203820	5146.735	5113.285
3)	Tert-Butyl Alcoh	2.02	1.67	143106	330804	5050.542	5202.723
4)	1-Propanol	2.51	2.02	131084	261986	5388.622	5152.900
5)	2-Propanol	1.75	1.42	97098	230726	4871.687	5095.633
6)	Isobutanol	3.31	2.97	158681	299223	5515.300	4887.572
7)	1-Butanol	3.76	3.44	135123	283952	4731.090	4291.251
8)	2-Butanol	2.94	2.59	124759	271148	4866.862	4994.944

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

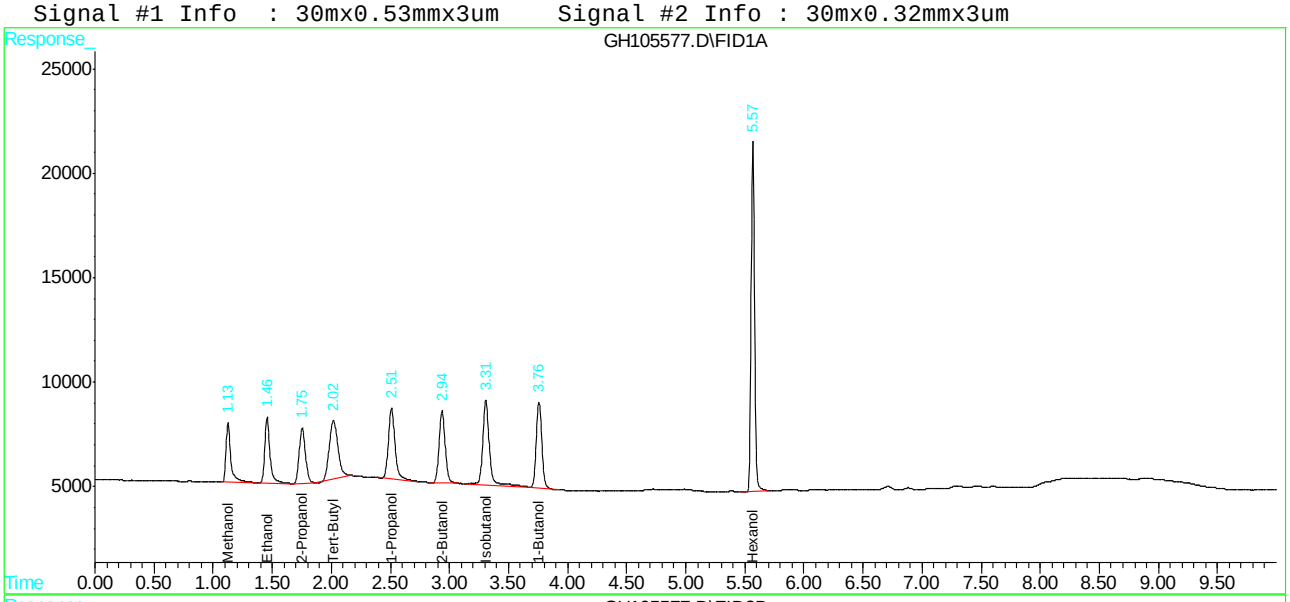
Quantitation Report (QT Reviewed)

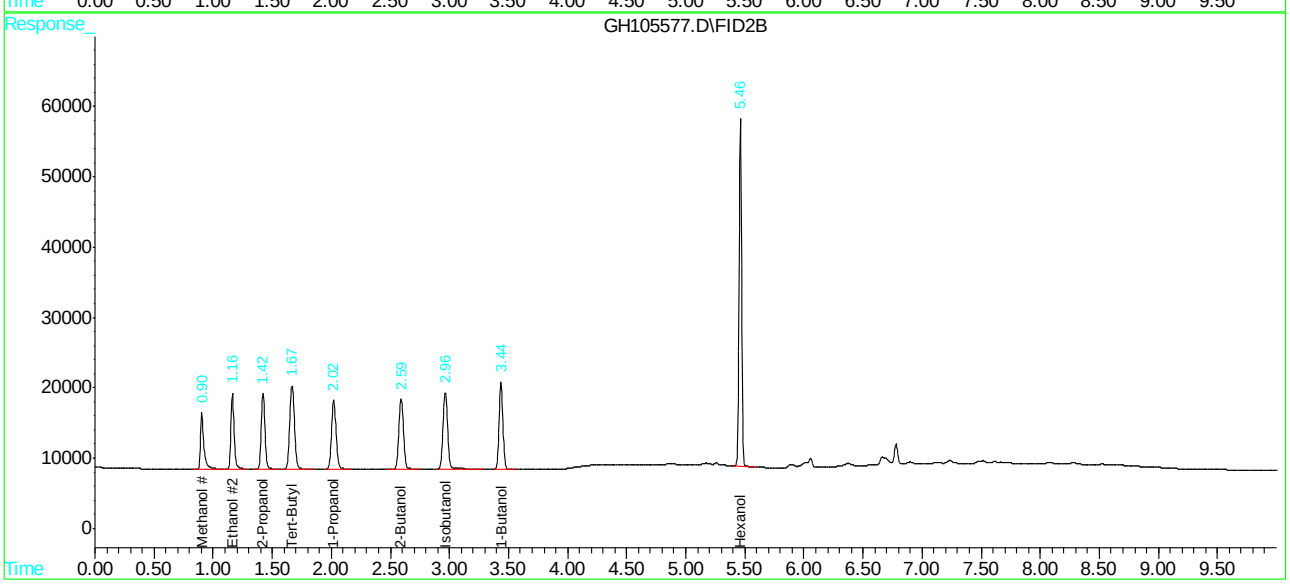
```
Data File : C:\HPCHEM\1\DATA\GH105577.D\FID1A.CH          Vial: 25
Acq On    : 20 Jun 2016   3:40 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105577.D\FID2B.CH          Vial: 25
Acq On    : 20 Jun 2016   3:56 pm                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48614,GGH5328,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun 21  7:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon Jun 20 14:54:24 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 JC22206

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.
015M4128	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 well		
	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: GGH532X

Print Analyst Name: Xu Gui

Analyst Signature:

Date: 6/16/16

Columns: 2B6UX / R7X-1 (30m x 0.53mm x 3μm) (30m x 0.32mm x 2μm)

Method 8015C ACL

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015mix137	ACL SUR (6/15)	2000ppm
015mix118	ACL STD (6/15)	100ppm
015mix139	ACL STD(2) (6/15)	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: 6/20/16

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
	0415052	2B					1					✓	ok		
	105523	CC5288-5000					1					✓	ok	50µl STD/1ml/2L	
	105524	MB1					1					✓	ok		
	105525	BS					1					✓	ok	50µl STD(2)/1ml/2L	
	105526	JC22206-1	486/1K CMA	G W	23		1					✓	ok		✓
	105527	JC22206-1MS	✓	G W	23		1					✓	ok	50µl STD(2)/1ml/2L	✓
	105528	JC22206-1MSD	✓	G W	23		1					✓	ok	50µl STD(2)/1ml/2L	✓
	105529	JC22206-2	✓	G W	10		1					✓	ok		✓
	105530	JC22206-3	✓	G W	9		1					✓	ok		✓
	105531	JC22206-4	✓	G W	10		1					✓	ok		✓
	105532	JC22206-5	✓	G W	9		1					✓	ok		✓
	105533	CC5288-10,000					1					✓	ok	100µl STD/1ml/2L	
	105534	MB2					1					✓	ok		
	105535	JC22206-6	✓	G W	9		1					✓	ok		✓
	105536	JC22206-7	✓	G W	11		1					✓	ok		✓
	105537	JC22206-8	✓	G W	9		1					✓	ok		✓
	105538	JC22206-9	✓	G W	29		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: GGH5324

Print Analyst Name: Xu Gu

Analyst Signature:

Date: 6/16/16

Columns: ZB624 (30m x0.53mm x2µm) / RTX-1 (30m x0.32mm x 3µm)

Method: Br 152 AIC

Initial Cal. Method: MGH5288

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
	PG 259	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/20/16

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
	GH105539	JC22006-10	48614 EMA	GW	10		1					✓	OK		✓
	105540	JC22006-11	✓	WG	10		1					✓	OK		✓
	105541	JC21755-1	48618 MOM	WW	3		1					✓	OK		9 N/P
	105542	JC21752-1	✓	WW	3		50ml/mL/20 10ml/mL/20		X2000			✓	OK	Turbidity+resin.	9 N/P
	105543	CC5288-5000					1					✓	OK	50µl 5ppm/mL/20	

6/16

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: GGH5327

Print Analyst Name: Xulia

Analyst Signature: [signature]

Date: 6/20/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015GHX137	ACL SWF (6/15)	2000ppm
015GHX038	ACL STD (6/15)	100ppm
015GHX139	ACL (ID(2)) (6/15)	100 ppm

Columns: ZB624 (30m x 0.53mm x 3um) / RTX-1 (30m x 0.32mm x 3um)

Method 8015C ACL

Initial Cal. Method MGH5288

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 6/20/16

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
	GH105562	ZB										✓	OK		
	105563	CC5288-5000										✓	OK	50µl STD/ml dw	
	105564	MB1										✓	OK		
	105565	BS										✓	OK	50µl STD(2)/ml dw	
	105566	JC22396-1	8260 MeOH	S	5		5.0/5					✓	OK		
	105567	JC22396-1MS	✓	S	5		5.0/5					✓	OK	50µl STD(2)/ml sample	
	105568	JC22396-1MSD	✓	S	5		5.0/5						Data not collected (Bulk injector stopped)	50µl STD(2)/ml sample	
	~~105569~~	~~JC22~~												(Q) 6/20	
R	105569	JC22396-1MSD	✓	S	5		5.0/5					✓	OK	50µl STD(2)/ml sample	
	105570	CC5288-10,000										✓	OK	100µl STD/ml dw	

(Q) 6/20

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

VOLATILE ANALYSIS LOG

Batch ID: GGH5328

Print Analyst Name: Xulin

Analyst Signature:

Date: 6/20/16

Columns: ZB624 / RTX-1 (30m x 0.53mm x 3µm) (30m x 0.32mm x 3µm)

Method 8015CACC

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015210K177	AL Sur	2000ppm
015210K138	AL (1)	100 ppm
015210K139	AL Sur(2)	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: 6/22/16

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
	GH105571	MB1					1					✓	OK		
	105572	BS					1					✓	OK	10µl STD (2)/ml H2O	
	105573	JC22206-9	8260K CMPS	G W	28		1					✓	OK		✓
	105574	JC22206-9MS	✓	G W	28		1					✓	OK	10µl STD(2)/ml sample	✓
	105575	JC22206-9MSD	✓	G W	28		1					✓	RR	signal NG 10µl STD(2)/ml sample	✓
	105576	JC22206-9MSD	✓	G W	28		1					✓	OK	10µl STD(2)/ml sample	✓
	105577	CC5288-1000					1					✓	OK	10µl STD/ml H2O	

6/20

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

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94861-MB1	6G36619.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

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	97%	26-132%
877-09-8	Tetrachloro-m-xylene	93%	26-132%
2051-24-3	Decachlorobiphenyl	90%	10-118%
2051-24-3	Decachlorobiphenyl	96%	10-118%

Blank Spike Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94861-BS1	6G36620.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.20	80	38-138
319-84-6	alpha-BHC	0.25	0.21	84	51-144
319-85-7	beta-BHC	0.25	0.21	84	55-137
319-86-8	delta-BHC	0.25	0.21	84	33-148
58-89-9	gamma-BHC (Lindane)	0.25	0.22	88	53-142
5103-71-9	alpha-Chlordane	0.25	0.20	80	52-137
5103-74-2	gamma-Chlordane	0.25	0.24	96 [a]	52-140
60-57-1	Dieldrin	0.25	0.22	88	54-144
72-54-8	4,4'-DDD	0.25	0.22	88	46-151
72-55-9	4,4'-DDE	0.25	0.20	80	51-142
50-29-3	4,4'-DDT	0.25	0.21	84	53-158
72-20-8	Endrin	0.25	0.23	92	53-149
1031-07-8	Endosulfan sulfate	0.25	0.21	84	49-148
7421-93-4	Endrin aldehyde	0.25	0.22	88	45-137
53494-70-5	Endrin ketone	0.25	0.23	92	48-142
959-98-8	Endosulfan-I	0.25	0.21	84	54-139
33213-65-9	Endosulfan-II	0.25	0.22	88	54-142
76-44-8	Heptachlor	0.25	0.20	80	45-137
1024-57-3	Heptachlor epoxide	0.25	0.22	88	54-140
72-43-5	Methoxychlor	0.25	0.21	84	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	91%	26-132%
877-09-8	Tetrachloro-m-xylene	92%	26-132%
2051-24-3	Decachlorobiphenyl	91%	10-118%
2051-24-3	Decachlorobiphenyl	99%	10-118%

(a) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94861-MS	6G36627.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
OP94861-MSD	6G36628.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047
JC22206-9	6G36626.D	1	06/27/16	DS	06/17/16	OP94861	G6G1047

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC22206-4, JC22206-5, JC22206-6, JC22206-7, JC22206-8, JC22206-9, JC22206-10, JC22206-11

CAS No.	Compound	JC22206-9 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		0.266	0.25	94	0.269	0.21	78	17	37-159/40
319-84-6	alpha-BHC	ND		0.266	0.26	98	0.269	0.22	82	17	37-164/37
319-85-7	beta-BHC	ND		0.266	0.22	83	0.269	0.20	74	10	46-151/36
319-86-8	delta-BHC	ND		0.266	0.26	98	0.269	0.23	86	12	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.266	0.27	102	0.269	0.23	86	16	44-160/37
5103-71-9	alpha-Chlordane	ND		0.266	0.27	102	0.269	0.24	89	12	38-160/35
5103-74-2	gamma-Chlordane	ND		0.266	0.24	90	0.269	0.22	82	9	39-157/37
60-57-1	Dieldrin	ND		0.266	0.26	98	0.269	0.23	86	12	42-161/36
72-54-8	4,4'-DDD	ND		0.266	0.25	94	0.269	0.21	78	17	40-161/36
72-55-9	4,4'-DDE	ND		0.266	0.27	102	0.269	0.23	86	16	34-158/36
50-29-3	4,4'-DDT	ND		0.266	0.26	98	0.269	0.22	82	17	41-173/33
72-20-8	Endrin	ND		0.266	0.28	105	0.269	0.24	89	15	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.266	0.30	113	0.269	0.26	97	14	46-161/36
7421-93-4	Endrin aldehyde	ND		0.266	0.23	86	0.269	0.21	78	9	34-149/36
53494-70-5	Endrin ketone	ND		0.266	0.30	113	0.269	0.26	97	14	44-157/36
959-98-8	Endosulfan-I	ND		0.266	0.24	90	0.269	0.21	78	13	43-154/35
33213-65-9	Endosulfan-II	ND		0.266	0.26	98	0.269	0.23	86	12	40-162/35
76-44-8	Heptachlor	ND		0.266	0.25	94	0.269	0.21	78	17	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.266	0.26	98	0.269	0.23	86	12	45-154/37
72-43-5	Methoxychlor	ND		0.266	0.27	102	0.269	0.24	89	12	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC22206-9	Limits
877-09-8	Tetrachloro-m-xylene	105%	88%	63%	26-132%
877-09-8	Tetrachloro-m-xylene	104%	86%	61%	26-132%
2051-24-3	Decachlorobiphenyl	88%	75%	41%	10-118%
2051-24-3	Decachlorobiphenyl	90%	74%	42%	10-118%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1047-CC1034	**Injection Date:**	06/27/16
Lab File ID:	6G36617.D	**Injection Time:**	17:14
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	51614446	1.34	118985537	1.00
Upper Limit [a]	103228892	1.84	237971074	1.50
Lower Limit [b]	25807223	0.84	59492769	0.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94861-MB1	56244029	1.34	127699564	1.00
OP94861-BS1	53314577	1.34	126473544	1.00
OP95079-MB1	56258774	1.34	130024068	1.00
OP95079-BS1	58508530	1.34	135775844	1.00
JC22206-4	54922345	1.34	120936746	1.00
JC22206-5	54553716	1.34	118797637	1.00
JC22206-6	56976497	1.34	131795342	1.00
JC22206-7	52000886	1.34	116907509	1.00
JC22206-8 [c]	95159892	1.34	688788769*	0.99
JC22206-9	58330236	1.34	133615471	1.00
OP94861-MS	55103348	1.34	127438813	1.00
OP94861-MSD	55864277	1.34	127983926	1.00
JC22206-10	53979034	1.34	122280284	1.00
JC22206-11	54917350	1.34	130431773	1.01
OP94857-MS	49539864	1.35	115347455	1.01
OP94857-MSD	52743294	1.35	122189713	1.01
ZZZZZZ	56073092	1.35	131393234	1.01
ZZZZZZ	54375702	1.35	126246013	1.01
ZZZZZZ	56403281	1.34	133879344	1.00

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) Confirmation run.

Semivolatile Internal Standard Area Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1048-CC1034	**Injection Date:**	06/28/16
Lab File ID:	6G36651.D	**Injection Time:**	09:23
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	59162394	1.34	135894643	1.00
Upper Limit [a]	118324788	1.84	271789286	1.50
Lower Limit [b]	29581197	0.84	67947322	0.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP95099-MB1	54507018	1.34	123837662	1.00
OP95099-BS1	56816151	1.34	132233309	1.01
JC22206-8	57382052	1.34	233871606	1.00
OP95134-MB1	58255605	1.34	132804500	1.00
OP95134-BS1	56317668	1.34	130831866	1.00
JC22937-1	63260965	1.34	158517227	1.00
OP95134-MS	58511746	1.34	142214413	1.00
OP95134-MSD	61679353	1.34	146221882	1.00
ZZZZZZ	62836008	1.34	145433260	1.00
ZZZZZZ	59011971	1.34	133324003	1.00

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G1034-DDT
Lab File ID: 6G36058.D
Instrument ID: GC6G
Injection Date: 06/10/16
Injection Time: 16:21

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2612432	1434360
4,4'-DDE	1219518	542492
4,4'-DDT	216094680	102690829
DDT Breakdown [a]	1.7 %	1.9 %
Endrin aldehyde	1352257	618541
Endrin ketone	5068920	2227285
Endrin	116946783	52876025
Endrin Breakdown [b]	5.2 %	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
G6G1034-IC1034	6G36060.D	06/10/16	16:54	00:33	Initial cal 1
G6G1034-IC1034	6G36061.D	06/10/16	17:10	00:49	Initial cal 2
G6G1034-IC1034	6G36062.D	06/10/16	17:27	01:06	Initial cal 5
G6G1034-IC1034	6G36063.D	06/10/16	17:43	01:22	Initial cal 10
G6G1034-ICC1034	6G36064.D	06/10/16	17:59	01:38	Initial cal 25
G6G1034-IC1034	6G36065.D	06/10/16	18:16	01:55	Initial cal 50
G6G1034-IC1034	6G36066.D	06/10/16	18:32	02:11	Initial cal 75
G6G1034-IC1034	6G36067.D	06/10/16	18:49	02:28	Initial cal 100
G6G1034-IC1034	6G36068.D	06/10/16	19:05	02:44	Initial cal 500
G6G1034-IC1034	6G36069.D	06/10/16	19:22	03:01	Initial cal 500
G6G1034-ICV1034	6G36070.D	06/10/16	19:38	03:17	Initial cal verification 25
G6G1034-ICV1034	6G36071.D	06/10/16	19:54	03:33	Initial cal verification 25
G6G1034-ICV1034	6G36072.D	06/10/16	20:11	03:50	Initial cal verification 500
G6G1034-ICV1034	6G36073.D	06/10/16	20:27	04:06	Initial cal verification 500
G6G1035-CC1034	6G36074.D	06/10/16	20:44	04:23	Continuing cal 25
OP94480-MB1	6G36076.D	06/10/16	21:17	04:56	Method Blank
OP94480-BS1	6G36077.D	06/10/16	21:33	05:12	Blank Spike
ZZZZZZ	6G36079.D	06/10/16	22:06	05:45	(unrelated sample)
ZZZZZZ	6G36080.D	06/10/16	22:22	06:01	(unrelated sample)
JC21339-4A	6G36081.D	06/10/16	22:39	06:18	(used for QC only; not part of job JC22206)
OP94480-MS	6G36082.D	06/10/16	22:55	06:34	Matrix Spike
OP94480-MSD	6G36083.D	06/10/16	23:12	06:51	Matrix Spike Duplicate
ZZZZZZ	6G36084.D	06/10/16	23:28	07:07	(unrelated sample)
ZZZZZZ	6G36085.D	06/10/16	23:44	07:23	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G1034-DDT	**Injection Date:**	06/10/16
Lab File ID:	6G36058.D	**Injection Time:**	16:21
Instrument ID:	GC6G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6G36086.D	06/11/16	00:01	07:40	(unrelated sample)
ZZZZZZ	6G36087.D	06/11/16	00:17	07:56	(unrelated sample)
ZZZZZZ	6G36088.D	06/11/16	00:34	08:13	(unrelated sample)
ZZZZZZ	6G36089.D	06/11/16	00:50	08:29	(unrelated sample)
ZZZZZZ	6G36090.D	06/11/16	01:07	08:46	(unrelated sample)
ZZZZZZ	6G36091.D	06/11/16	01:23	09:02	(unrelated sample)
ZZZZZZ	6G36092.D	06/11/16	01:40	09:19	(unrelated sample)
ZZZZZZ	6G36093.D	06/11/16	01:56	09:35	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G6G1047-DDT
Lab File ID: 6G36616.D
Instrument ID: GC6G
Injection Date: 06/27/16
Injection Time: 16:58

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	998417	843569
4,4'-DDE	1132115	639961
4,4'-DDT	174304440	93062768
DDT Breakdown [a]	1.2 %	1.6 %
Endrin aldehyde	988789	754878
Endrin ketone	3628851	1824626
Endrin	100322797	49641022
Endrin Breakdown [b]	4.4 %	4.9 %

(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
G6G1047-CC1034	6G36617.D	06/27/16	17:14	00:16	Continuing cal 25
OP94861-MB1	6G36619.D	06/27/16	17:47	00:49	Method Blank
OP94861-BS1	6G36620.D	06/27/16	18:03	01:05	Blank Spike
OP95079-MB1	6G36635.D	06/27/16	18:20	01:22	Method Blank
OP95079-BS1	6G36636.D	06/27/16	18:36	01:38	Blank Spike
JC22206-4	6G36621.D	06/27/16	18:53	01:55	S-36
JC22206-5	6G36622.D	06/27/16	19:09	02:11	S-36D
JC22206-6	6G36623.D	06/27/16	19:25	02:27	S-37
JC22206-7	6G36624.D	06/27/16	19:42	02:44	S-35
JC22206-8	6G36625.D	06/27/16	19:58	03:00	S-32
JC22206-9	6G36626.D	06/27/16	20:15	03:17	RA-10S
OP94861-MS	6G36627.D	06/27/16	20:31	03:33	Matrix Spike
OP94861-MSD	6G36628.D	06/27/16	20:48	03:50	Matrix Spike Duplicate
JC22206-10	6G36629.D	06/27/16	21:04	04:06	RA-10D
JC22206-11	6G36630.D	06/27/16	21:21	04:23	EB-061416
OP94857-MS	6G36631.D	06/27/16	21:37	04:39	Matrix Spike
OP94857-MSD	6G36632.D	06/27/16	21:54	04:56	Matrix Spike Duplicate
ZZZZZZ	6G36633.D	06/27/16	22:10	05:12	(unrelated sample)
ZZZZZZ	6G36634.D	06/27/16	22:26	05:28	(unrelated sample)
ZZZZZZ	6G36637.D	06/27/16	22:43	05:45	(unrelated sample)
G6G1047-CC1034	6G36638.D	06/27/16	22:59	06:01	Continuing cal 50
JC22613-7	6G36640.D	06/27/16	23:32	06:34	(used for QC only; not part of job JC22206)
OP95079-MS	6G36641.D	06/27/16	23:49	06:51	Matrix Spike
OP95079-MSD	6G36642.D	06/28/16	00:05	07:07	Matrix Spike Duplicate

DDT/Endrin Breakdown Check

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G1047-DDT	**Injection Date:**	06/27/16
Lab File ID:	6G36616.D	**Injection Time:**	16:58
Instrument ID:	GC6G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6G36643.D	06/28/16	00:21	07:23	(unrelated sample)
ZZZZZZ	6G36646.D	06/28/16	01:11	08:13	(unrelated sample)
ZZZZZZ	6G36647.D	06/28/16	01:27	08:29	(unrelated sample)
ZZZZZZ	6G36648.D	06/28/16	01:44	08:46	(unrelated sample)
ZZZZZZ	6G36649.D	06/28/16	02:00	09:02	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G6G1048-DDT	**Injection Date:**	06/28/16
Lab File ID:	6G36650.D	**Injection Time:**	09:07
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	501732	686658
4,4'-DDE	607800	345262
4,4'-DDT	206897164	112363776
DDT Breakdown [a]	0.5 %	0.9 %
Endrin aldehyde	854896	684873
Endrin ketone	4562792	2747457
Endrin	113616082	59973460
Endrin Breakdown [b]	4.6 %	5.4 %

(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
G6G1048-CC1034	6G36651.D	06/28/16	09:23	00:16	Continuing cal 25
OP95099-MB1	6G36653.D	06/28/16	09:56	00:49	Method Blank
OP95099-BS1	6G36654.D	06/28/16	10:13	01:06	Blank Spike
JC22206-8	6G36670.D	06/28/16	10:29	01:22	S-32
OP95134-MB1	6G36655.D	06/28/16	11:02	01:55	Method Blank
OP95134-BS1	6G36656.D	06/28/16	11:18	02:11	Blank Spike
JC22937-1	6G36657.D	06/28/16	11:35	02:28	(used for QC only; not part of job JC22206)
OP95134-MS	6G36658.D	06/28/16	11:51	02:44	Matrix Spike
OP95134-MSD	6G36659.D	06/28/16	12:08	03:01	Matrix Spike Duplicate
ZZZZZZ	6G36660.D	06/28/16	12:24	03:17	(unrelated sample)
ZZZZZZ	6G36661.D	06/28/16	12:41	03:34	(unrelated sample)

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1047-CC1034	**Injection Date:**	06/27/16
Lab File ID:	6G36617.D	**Injection Time:**	17:14
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP94861-BS1	**Injection Date:**	06/27/16
Lab File ID:	6G36620.D	**Injection Time:**	18:03
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.42	3.42	0.20		ug/l	14.0
Aldrin	2	4.50	4.50	0.23		ug/l	
alpha-BHC	1 [a]	2.24	2.24	0.21		ug/l	4.7
alpha-BHC	2	2.99	2.99	0.22		ug/l	
beta-BHC	1 [a]	2.65	2.65	0.21		ug/l	9.1
beta-BHC	2	3.54	3.54	0.23		ug/l	
delta-BHC	1 [a]	2.84	2.84	0.21		ug/l	9.1
delta-BHC	2	3.95	3.94	0.23		ug/l	
gamma-BHC (Lindane)	1 [a]	2.56	2.56	0.22		ug/l	4.4
gamma-BHC (Lindane)	2	3.44	3.44	0.23		ug/l	
alpha-Chlordane	1 [a]	4.50	4.50	0.20		ug/l	14.0
alpha-Chlordane	2	5.92	5.92	0.23		ug/l	
gamma-Chlordane	1	4.33	4.33	0.20		ug/l	18.2
gamma-Chlordane [b]	2 [a]	5.68	5.68	0.24		ug/l	
Dieldrin	1 [a]	5.02	5.01	0.22		ug/l	12.8
Dieldrin	2	6.48	6.48	0.25		ug/l	
4,4'-DDD	1 [a]	5.52	5.52	0.22		ug/l	8.7
4,4'-DDD	2	7.25	7.24	0.24		ug/l	
4,4'-DDE	1 [a]	4.64	4.64	0.20		ug/l	26.1
4,4'-DDE	2	6.22	6.22	0.26		ug/l	
4,4'-DDT	1 [a]	5.96	5.95	0.21		ug/l	17.4
4,4'-DDT	2	7.82	7.82	0.25		ug/l	
Endrin	1 [a]	5.35	5.35	0.23		ug/l	12.2
Endrin	2	7.01	7.01	0.26		ug/l	
Endosulfan sulfate	1 [a]	7.07	7.07	0.21		ug/l	13.3
Endosulfan sulfate	2	8.54	8.54	0.24		ug/l	
Endrin aldehyde	1 [a]	6.35	6.34	0.22		ug/l	12.8
Endrin aldehyde	2	8.02	8.02	0.25		ug/l	
Endrin ketone	1 [a]	7.54	7.53	0.23		ug/l	8.3
Endrin ketone	2	9.58	9.57	0.25		ug/l	
Endosulfan-I	1 [a]	4.68	4.68	0.21		ug/l	9.1
Endosulfan-I	2	6.01	6.01	0.23		ug/l	
Endosulfan-II	1 [a]	5.69	5.69	0.22		ug/l	8.7
Endosulfan-II	2	7.40	7.40	0.24		ug/l	
Heptachlor	1 [a]	3.08	3.08	0.20		ug/l	18.2
Heptachlor	2	4.03	4.03	0.24		ug/l	
Heptachlor epoxide	1 [a]	4.15	4.15	0.22		ug/l	16.7
Heptachlor epoxide	2	5.37	5.37	0.26		ug/l	
Methoxychlor	1 [a]	6.82	6.82	0.21		ug/l	13.3
Methoxychlor	2	9.19	9.20	0.24		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1047-CC1034	**Injection Date:**	06/27/16
Lab File ID:	6G36617.D	**Injection Time:**	17:14
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP94861-BS1	**Injection Date:**	06/27/16
Lab File ID:	6G36620.D	**Injection Time:**	18:03
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(b) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.

10.6.1

10

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1047-CC1034	**Injection Date:**	06/27/16
Lab File ID:	6G36617.D	**Injection Time:**	17:14
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP94861-MS	**Injection Date:**	06/27/16
Lab File ID:	6G36627.D	**Injection Time:**	20:31
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.42	3.42	0.25		ug/l	11.3
Aldrin	2	4.50	4.50	0.28		ug/l	
alpha-BHC	1 [a]	2.24	2.24	0.26		ug/l	3.8
alpha-BHC	2	2.99	2.99	0.27		ug/l	
beta-BHC	1 [a]	2.65	2.65	0.22		ug/l	20.4
beta-BHC	2	3.54	3.54	0.27		ug/l	
delta-BHC	1 [a]	2.84	2.84	0.26		ug/l	7.4
delta-BHC	2	3.94	3.94	0.28		ug/l	
gamma-BHC (Lindane)	1 [a]	2.56	2.56	0.27		ug/l	3.6
gamma-BHC (Lindane)	2	3.44	3.44	0.28		ug/l	
alpha-Chlordane	1 [a]	4.50	4.50	0.27		ug/l	0.0
alpha-Chlordane	2	5.92	5.92	0.27		ug/l	
gamma-Chlordane	1 [a]	4.33	4.33	0.24		ug/l	18.9
gamma-Chlordane	2	5.67	5.68	0.29		ug/l	
Dieldrin	1 [a]	5.01	5.01	0.26		ug/l	10.9
Dieldrin	2	6.48	6.48	0.29		ug/l	
4,4'-DDD	1 [a]	5.51	5.52	0.25		ug/l	11.3
4,4'-DDD	2	7.24	7.24	0.28		ug/l	
4,4'-DDE	1 [a]	4.64	4.64	0.27		ug/l	10.5
4,4'-DDE	2	6.22	6.22	0.30		ug/l	
4,4'-DDT	1 [a]	5.95	5.95	0.26		ug/l	14.3
4,4'-DDT	2	7.82	7.82	0.30		ug/l	
Endrin	1 [a]	5.35	5.35	0.28		ug/l	6.9
Endrin	2	7.01	7.01	0.30		ug/l	
Endosulfan sulfate	1 [a]	7.07	7.07	0.30		ug/l	0.0
Endosulfan sulfate	2	8.53	8.54	0.30		ug/l	
Endrin aldehyde	1 [a]	6.34	6.34	0.23		ug/l	12.2
Endrin aldehyde	2	8.02	8.02	0.26		ug/l	
Endrin ketone	1 [a]	7.53	7.53	0.30		ug/l	9.5
Endrin ketone	2	9.57	9.57	0.33		ug/l	
Endosulfan-I	1 [a]	4.68	4.68	0.24		ug/l	11.8
Endosulfan-I	2	6.01	6.01	0.27		ug/l	
Endosulfan-II	1 [a]	5.68	5.69	0.26		ug/l	10.9
Endosulfan-II	2	7.40	7.40	0.29		ug/l	
Heptachlor	1 [a]	3.08	3.08	0.25		ug/l	14.8
Heptachlor	2	4.03	4.03	0.29		ug/l	
Heptachlor epoxide	1 [a]	4.15	4.15	0.26		ug/l	17.5
Heptachlor epoxide	2	5.37	5.37	0.31		ug/l	
Methoxychlor	1 [a]	6.81	6.82	0.27		ug/l	10.5
Methoxychlor	2	9.19	9.20	0.30		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1047-CC1034	**Injection Date:**	06/27/16
Lab File ID:	6G36617.D	**Injection Time:**	17:14
Instrument ID:	GC6G	**Method:**	SW846 8081B

Sample ID:	OP94861-MSD	**Injection Date:**	06/27/16
Lab File ID:	6G36628.D	**Injection Time:**	20:48
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.42	3.42	0.21		ug/l	13.3
Aldrin	2	4.50	4.50	0.24		ug/l	
alpha-BHC	1 [a]	2.24	2.24	0.22		ug/l	4.4
alpha-BHC	2	2.99	2.99	0.23		ug/l	
beta-BHC	1 [a]	2.65	2.65	0.20		ug/l	18.2
beta-BHC	2	3.54	3.54	0.24		ug/l	
delta-BHC	1 [a]	2.84	2.84	0.23		ug/l	0.0
delta-BHC	2	3.94	3.94	0.23		ug/l	
gamma-BHC (Lindane)	1 [a]	2.56	2.56	0.23		ug/l	4.3
gamma-BHC (Lindane)	2	3.44	3.44	0.24		ug/l	
alpha-Chlordane	1 [a]	4.50	4.50	0.24		ug/l	0.0
alpha-Chlordane	2	5.91	5.92	0.24		ug/l	
gamma-Chlordane	1 [a]	4.33	4.33	0.22		ug/l	12.8
gamma-Chlordane	2	5.67	5.68	0.25		ug/l	
Dieldrin	1 [a]	5.01	5.01	0.23		ug/l	8.3
Dieldrin	2	6.48	6.48	0.25		ug/l	
4,4'-DDD	1 [a]	5.51	5.52	0.21		ug/l	13.3
4,4'-DDD	2	7.24	7.24	0.24		ug/l	
4,4'-DDE	1 [a]	4.64	4.64	0.23		ug/l	16.0
4,4'-DDE	2	6.22	6.22	0.27		ug/l	
4,4'-DDT	1 [a]	5.95	5.95	0.22		ug/l	16.7
4,4'-DDT	2	7.82	7.82	0.26		ug/l	
Endrin	1 [a]	5.35	5.35	0.24		ug/l	8.0
Endrin	2	7.01	7.01	0.26		ug/l	
Endosulfan sulfate	1 [a]	7.07	7.07	0.26		ug/l	0.0
Endosulfan sulfate	2	8.53	8.54	0.26		ug/l	
Endrin aldehyde	1 [a]	6.34	6.34	0.21		ug/l	13.3
Endrin aldehyde	2	8.02	8.02	0.24		ug/l	
Endrin ketone	1 [a]	7.53	7.53	0.26		ug/l	7.4
Endrin ketone	2	9.57	9.57	0.28		ug/l	
Endosulfan-I	1 [a]	4.68	4.68	0.21		ug/l	9.1
Endosulfan-I	2	6.01	6.01	0.23		ug/l	
Endosulfan-II	1 [a]	5.68	5.69	0.23		ug/l	8.3
Endosulfan-II	2	7.40	7.40	0.25		ug/l	
Heptachlor	1 [a]	3.08	3.08	0.21		ug/l	13.3
Heptachlor	2	4.03	4.03	0.24		ug/l	
Heptachlor epoxide	1 [a]	4.15	4.15	0.23		ug/l	12.2
Heptachlor epoxide	2	5.37	5.37	0.26		ug/l	
Methoxychlor	1 [a]	6.81	6.82	0.24		ug/l	11.8
Methoxychlor	2	9.19	9.20	0.27		ug/l	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC22206
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]
JC22206-4	6G36621.D	102	96	85	87
JC22206-5	6G36622.D	93	85	76	76
JC22206-6	6G36623.D	105	103	91	98
JC22206-7	6G36624.D	114	110	107	110
JC22206-8	6G36670.D	44	82	31	49
JC22206-8	6G36625.D	13* [c]	39	8* [c]	28
JC22206-9	6G36626.D	63	61	41	42
JC22206-10	6G36629.D	94	89	59	60
JC22206-11	6G36630.D	106	106	68	75
OP94861-BS1	6G36620.D	91	92	91	99
OP94861-MB1	6G36619.D	97	93	90	96
OP94861-MS	6G36627.D	105	104	88	90
OP94861-MSD	6G36628.D	88	86	75	74

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
(c) Outside control limits due to matrix interference with the internal standard.

GC Surrogate Retention Time Summary

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1047-CC1034	**Injection Date:**	06/27/16
Lab File ID:	6G36617.D	**Injection Time:**	17:14
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.72	2.28	9.57	11.59

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94861-MB1	6G36619.D	06/27/16	17:47	1.72	2.28	9.57	11.59
OP94861-BS1	6G36620.D	06/27/16	18:03	1.72	2.28	9.57	11.59
OP95079-MB1	6G36635.D	06/27/16	18:20	1.72	2.28	9.57	11.59
OP95079-BS1	6G36636.D	06/27/16	18:36	1.72	2.28	9.56	11.58
JC22206-4	6G36621.D	06/27/16	18:53	1.72	2.28	9.57	11.58
JC22206-5	6G36622.D	06/27/16	19:09	1.72	2.28	9.56	11.58
JC22206-6	6G36623.D	06/27/16	19:25	1.72	2.28	9.57	11.59
JC22206-7	6G36624.D	06/27/16	19:42	1.72	2.28	9.56	11.58
JC22206-8	6G36625.D	06/27/16	19:58	1.72	2.28	9.56	11.58
JC22206-9	6G36626.D	06/27/16	20:15	1.72	2.28	9.56	11.58
OP94861-MS	6G36627.D	06/27/16	20:31	1.72	2.28	9.56	11.59
OP94861-MSD	6G36628.D	06/27/16	20:48	1.72	2.28	9.56	11.58
JC22206-10	6G36629.D	06/27/16	21:04	1.72	2.28	9.56	11.58
JC22206-11	6G36630.D	06/27/16	21:21	1.72	2.28	9.57	11.59
OP94857-MS	6G36631.D	06/27/16	21:37	1.73	2.28	9.57	11.58
OP94857-MSD	6G36632.D	06/27/16	21:54	1.73	2.28	9.56	11.58
ZZZZZZ	6G36633.D	06/27/16	22:10	1.72	2.28	9.57	11.58
ZZZZZZ	6G36634.D	06/27/16	22:26	1.72	2.28	9.56	11.58
ZZZZZZ	6G36637.D	06/27/16	22:43	1.72	2.28	9.56	11.58

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: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G6G1048-CC1034	**Injection Date:**	06/28/16
Lab File ID:	6G36651.D	**Injection Time:**	09:23
Instrument ID:	GC6G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.72	2.28	9.56	11.59

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP95099-MB1	6G36653.D	06/28/16	09:56	1.72	2.28	9.56	11.59
OP95099-BS1	6G36654.D	06/28/16	10:13	1.72	2.28	9.56	11.59
JC22206-8	6G36670.D	06/28/16	10:29	1.72	2.28	9.56	11.59
OP95134-MB1	6G36655.D	06/28/16	11:02	1.72	2.28	9.56	11.59
OP95134-BS1	6G36656.D	06/28/16	11:18	1.72	2.28	9.56	11.59
JC22937-1	6G36657.D	06/28/16	11:35	1.72	2.28	9.56	11.59
OP95134-MS	6G36658.D	06/28/16	11:51	1.72	2.28	9.56	11.59
OP95134-MSD	6G36659.D	06/28/16	12:08	1.72	2.28	9.56	11.59
ZZZZZZ	6G36660.D	06/28/16	12:24	1.72	2.28	9.56	11.59
ZZZZZZ	6G36661.D	06/28/16	12:41	1.72	2.28	9.56	11.59

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: JC22206 **Sample:** G6G1034-ICC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36064.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report HP G1530A

Method : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 13 12:02:56 2016
Response via : Initial Calibration

Calibration Files
2 =6g36061.D 5 =6g36062.D 10 =6g36063.D 25 =6g36064.D
50 =6g36065.D 100 =6g36067.D 1 =6g36060.D 75 =6g36066.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.946	0.923	0.914	0.897	0.939	0.978	1.051	0.938	0.948	5.03
3) alpha-BHC	1.109	1.111	1.130	1.205	1.335	1.470	1.256	1.367	1.248	10.71
4) gamma-BHC	1.033	1.065	1.074	1.130	1.226	1.329	1.180	1.249	1.161	8.91
5) Heptachlor	1.117	1.091	1.072	1.095	1.163	1.245	1.239	1.176	1.150	5.84
6) beta-BHC	0.583	0.574	0.563	0.543	0.552	0.565	0.700	0.545	0.578	8.83
7) delta-BHC	1.137	1.034	1.006	1.078	1.201	1.313	1.218	1.216	1.150	9.14
8) Aldrin	1.022	1.006	1.004	1.044	1.126	1.213	1.125	1.140	1.085	7.04
9) Heptachlor E	1.012	1.001	0.981	0.992	1.040	1.097	1.208	1.042	1.047	7.15
10) gamma-Chlord	1.053	1.093	1.008	1.004	1.054	1.126	1.370	1.063	1.096	10.74
11) alpha-Chlord	1.044	1.010	0.995	0.993	1.041	1.102	1.236	1.045	1.058	7.57
12) Endosulfan I	1.117	1.099	1.065	1.061	1.109	1.154	1.323	1.088	1.127	7.52
13) 4,4'-DDE	0.677	0.681	0.683	0.740	0.816	0.927	0.846	0.865	0.779	12.43
14) Dieldrin	0.947	0.945	0.936	0.968	1.038	1.119	1.107	1.057	1.015	7.41
15) Endrin	0.902	0.893	0.877	0.888	0.946	1.009	0.950	0.955	0.928	4.86
16) 4,4'-DDD	0.656	0.660	0.696	0.708	0.752	0.804	0.864	0.764	0.738	9.79
17) Endosulfan I	0.909	0.891	0.905	0.907	0.941	0.993	1.092	0.954	0.949	7.04
18) 4,4'-DDT	0.647	0.648	0.653	0.679	0.739	0.834	0.755	0.775	0.716	9.74
19) Endrin Aldeh	0.739	0.742	0.713	0.727	0.743	0.768	0.803	0.739	0.747	3.68
20) Endosulfan S	0.774	0.767	0.753	0.763	0.795	0.838	0.952	0.803	0.806	8.10
21) Methoxychlor	0.403	0.413	0.402	0.394	0.413	0.429	0.518	0.415	0.423	9.35
22) Mirex	0.921	0.906	0.866	0.827	0.806	0.810	1.111	0.792	0.880	11.89
23) Endrin Keton	0.886	0.891	0.873	0.895	0.929	0.980	0.902	0.943	0.912	3.91
24) Decachlorobi	0.994	0.982	0.912	0.874	0.854	0.853	1.136	0.841	0.931	10.95
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.015				0.015	0.00
27) Toxaphene{B}					0.040				0.040	0.00
28) Toxaphene{C}					0.045				0.045	0.00
29) Toxaphene{D}					0.041				0.041	0.00
30) Toxaphene{E}					0.029				0.029	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.035				0.035	0.00
33) Chlordane {B					0.050				0.050	0.00
34) Chlordane {C					0.155				0.155	0.00
35) Chlordane {D					0.227				0.227	0.00
36) Chlordane {E					0.037				0.037	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.947	1.002	0.948	0.969	1.003	1.051	1.177	1.000	1.012	7.41
3) alpha-BHC	1.060	1.025	1.040	1.162	1.335	1.521	1.241	1.394	1.222	14.95
4) gamma-BHC	0.959	0.978	1.012	1.110	1.250	1.398	1.159	1.293	1.145	13.94

Initial Calibration Summary

Job Number: JC22206 **Sample:** G6G1034-ICC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36064.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.111	1.101	1.102	1.167	1.273	1.403	1.156	1.301	1.202	9.27
6)	beta-BHC	0.562	0.559	0.556	0.573	0.598	0.626	0.741	0.595	0.601	10.20
7)	delta-BHC	0.961	0.979	0.935	1.049	1.189	1.340	1.106	1.235	1.099	13.22
8)	Aldrin	1.005	0.999	1.042	1.103	1.210	1.347	1.255	1.244	1.150	11.38
9)	Heptachlor E	1.111	1.020	1.022	1.082	1.152	1.251	1.358	1.171	1.146	10.08
10)	gamma-Chlord	1.170	1.035	1.041	1.096	1.179	1.286	1.267	1.199	1.159	8.19
11)	alpha-Chlord	1.129	1.049	1.057	1.111	1.186	1.281	1.372	1.198	1.173	9.49
12)	Endosulfan I	1.029	1.001	0.978	1.033	1.091	1.176	1.261	1.105	1.084	8.84
13)	4,4'-DDE	1.004	0.906	0.905	0.969	1.051	1.164	0.864	1.085	0.994	10.31
14)	Dieldrin	1.017	0.948	0.969	1.034	1.126	1.248	1.046	1.161	1.069	9.54
15)	Endrin	0.946	0.933	0.881	0.968	1.025	1.120	0.903	1.047	0.978	8.22
16)	4,4'-DDD	0.780	0.747	0.719	0.766	0.808	0.914	1.024	0.854	0.826	12.22
17)	Endosulfan I	0.919	0.921	0.947	0.971	1.011	1.100	1.032	1.047	0.994	6.55
18)	4,4'-DDT	0.649	0.670	0.660	0.726	0.812	0.946	0.766	0.871	0.763	14.11
19)	Endrin Aldeh	0.786	0.773	0.775	0.831	0.854	0.890	0.844	0.853	0.826	5.20
20)	Endosulfan S	0.887	0.865	0.829	0.869	0.907	0.963	0.939	0.921	0.898	4.87
21)	Methoxychlor	0.444	0.429	0.442	0.470	0.483	0.516	0.579	0.494	0.482	10.13
22)	Mirex	1.072	1.014	0.997	1.023	0.982	1.012	1.214	0.992	1.038	7.33
23)	Endrin Keton	0.886	0.909	0.902	0.987	1.039	1.116	0.973	1.066	0.985	8.51
24)	Decachlorobi	1.265	1.231	1.186	1.159	1.143	1.139	1.479	1.131	1.217	9.54

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.023	0.023	0.00
27)	Toxaphene{B}	0.030	0.030	0.00
28)	Toxaphene{C}	0.049	0.049	0.00
29)	Toxaphene{D}	0.030	0.030	0.00
30)	Toxaphene{E}	0.026	0.026	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.036	0.036	0.00
33)	Chlordane {B	0.049	0.049	0.00
34)	Chlordane {C	0.160	0.160	0.00
35)	Chlordane {D	0.264	0.264	0.00
36)	Chlordane {E	0.037	0.037	0.00

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

6PST1034.M Mon Jun 13 14:06:25 2016

Initial Calibration Verification

Job Number: JC22206 **Sample:** G6G1034-ICV1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36070.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1034\6g36070.D\ECD1A.CH    Vial: 13
Signal #2 : C:\msdchem\1\DATA\1034\6g36070.D\ECD2B.CH
Acq On    : 10 Jun 2016   7:38 pm                    Operator: dharas
Sample    : icv1034-25                               Inst    : HP G1530A
Misc      : op94394,g6g1034,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 12:02:56 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	0.97- 1.03
2	SAB	Tetrachloro-m-xylene	0.948	0.854	9.9	96	0.00	1.69- 1.75
3	A	alpha-BHC	1.248	1.102	11.7	92	0.00	2.22- 2.28
4	MA	gamma-BHC	1.161	1.029	11.4	92	0.00	2.53- 2.59
5	MA	Heptachlor	1.150	1.012	12.0	93	0.00	3.06- 3.12
6	B	beta-BHC	0.578	0.507	12.3	94	0.00	2.62- 2.68
7	B	delta-BHC	1.150	1.050	8.7	98	0.00	2.81- 2.87
8	MB	Aldrin	1.085	0.945	12.9	91	0.00	3.40- 3.47
9	B	Heptachlor Epoxide	1.047	0.893	14.7	91	0.00	4.14- 4.20
10	B	gamma-Chlordane	1.096	0.944	13.9	95	0.00	4.31- 4.37
11	B	alpha-Chlordane	1.058	0.913	13.7	93	0.00	4.49- 4.55
12	A	Endosulfan I	1.127	0.961	14.7	91	0.00	4.66- 4.72
13	B	4,4'-DDE	0.779	0.652	16.3	89	0.00	4.63- 4.69
14	MA	Dieldrin	1.015	0.892	12.1	93	0.00	5.00- 5.06
15	MA	Endrin	0.928	0.835	10.0	95	0.00	5.33- 5.39
16	A	4,4'-DDD	0.738	0.636	13.8	91	0.00	5.50- 5.56
17	B	Endosulfan II	0.949	0.839	11.6	93	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.716	0.642	10.3	95	0.00	5.94- 6.00
19	B	Endrin Aldehyde	0.747	0.648	13.3	90	0.00	6.33- 6.39
20	B	Endosulfan Sulfate	0.806	0.721	10.5	95	0.00	7.06- 7.12
21	A	Methoxychlor	0.423	0.395	6.6	101	0.00	6.81- 6.87
23	B	Endrin Ketone	0.912	0.806	11.6	91	0.00	7.53- 7.59
24	SAB	Decachlorobiphenyl	0.931	0.844	9.3	97	0.00	9.56- 9.62

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.31- 1.37
2	SAB	Tetrachloro-m-xylene	1.012	0.909	10.2	95	0.00	2.26- 2.32
3	A	alpha-BHC	1.222	1.027	16.0	90	0.00	2.97- 3.03
4	MA	gamma-BHC	1.145	0.996	13.0	91	0.00	3.42- 3.48
5	MA	Heptachlor	1.202	1.058	12.0	92	0.00	4.02- 4.08
6	B	beta-BHC	0.601	0.510	15.1	90	0.00	3.52- 3.58
7	B	delta-BHC	1.099	0.974	11.4	94	0.00	3.93- 3.99
8	MB	Aldrin	1.150	0.975	15.2	90	0.00	4.49- 4.55
9	B	Heptachlor Epoxide	1.146	0.983	14.2	92	0.00	5.36- 5.42
10	B	gamma-Chlordane	1.159	1.010	12.9	94	0.00	5.67- 5.73
11	B	alpha-Chlordane	1.173	1.008	14.1	92	0.00	5.91- 5.97
12	A	Endosulfan I	1.084	0.907	16.3	89	0.00	6.00- 6.06

Initial Calibration Verification

Job Number: JC22206 **Sample:** G6G1034-ICV1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36070.D
Project: BMSMC, Building 5 Area, PR

13	B	4,4'-DDE	0.994	0.882	11.3	92	0.00	6.21- 6.27
14	MA	Dieldrin	1.069	0.937	12.3	92	0.00	6.47- 6.53
15	MA	Endrin	0.978	0.893	8.7	94	0.00	7.01- 7.07
16	A	4,4'-DDD	0.826	0.686	16.9	91	0.00	7.24- 7.30
17	B	Endosulfan II	0.994	0.873	12.2	91	0.00	7.39- 7.45
18	MA	4,4'-DDT	0.763	0.693	9.2	97	0.00	7.81- 7.87
19	B	Endrin Aldehyde	0.826	0.728	11.9	89	0.00	8.02- 8.08
20	B	Endosulfan Sulfate	0.898	0.785	12.6	92	0.00	8.53- 8.59
21	A	Methoxychlor	0.482	0.434	10.0	94	0.00	9.19- 9.25
23	B	Endrin Ketone	0.985	0.867	12.0	89	0.00	9.57- 9.63
24	SAB	Decachlorobiphenyl	1.217	1.116	8.3	98	0.00	11.57-11.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g36064.D 6PST1034.M Mon Jun 13 13:44:04 2016

10.9.2 10

Initial Calibration Verification

Job Number: JC22206
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G6G1034-ICV1034
Lab FileID: 6G36071.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1034\6g36071.D\ECD1A.CH    Vial: 14
Signal #2 : C:\msdchem\1\DATA\1034\6g36071.D\ECD2B.CH
Acq On    : 10 Jun 2016   7:54 pm                    Operator: dharas
Sample    : icv1034-25                               Inst    : HP G1530A
Misc      : op94394,g6g1034,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 12:02:56 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	0.98- 1.04
22	Mirex	0.880	0.986	-12.0	117	0.00	6.91- 6.97

***** Signal #2 *****

1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.32- 1.38
22	Mirex	1.038	1.221	-17.6	121	0.00	9.48- 9.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g36064.D 6PST1034.M Mon Jun 13 13:44:06 2016

10.9.3 10

Initial Calibration Verification

Job Number: JC22206 **Sample:** G6G1034-ICV1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1034\6g36072.D\ECD1A.CH    Vial: 15
Signal #2 : C:\msdchem\1\DATA\1034\6g36072.D\ECD2B.CH
Acq On    : 10 Jun 2016   8:11 pm                    Operator: dharas
Sample    : icv1034-500                              Inst    : HP G1530A
Misc      : op94394,g6g1034,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 12:02:56 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	97	0.00	0.98- 1.04
2	SAB	Tetrachloro-m-xylene	0.948	0.866	8.6	89	0.00	1.70- 1.76
24	SAB	Decachlorobiphenyl	0.931	0.846	9.1	96	0.00	9.56- 9.62
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	0.98- 1.04
32		Chlordane {A}	0.035	0.037	-5.7	110	0.00	2.89- 3.09
33		Chlordane {B}	0.050	0.046	8.0	96	0.00	3.48- 3.68
34		Chlordane {C}	0.155	0.136	12.3	91	0.00	4.24- 4.44
35		Chlordane {D}	0.227	0.204	10.1	93	0.00	4.41- 4.61
36		Chlordane {E}	0.037	0.034	8.1	95	0.00	5.51- 5.71

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.32- 1.38
2	SAB	Tetrachloro-m-xylene	1.012	0.888	12.3	90	0.00	2.26- 2.32
24	SAB	Decachlorobiphenyl	1.217	1.085	10.8	96	0.00	11.57-11.63
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.25- 1.45
32		Chlordane {A}	0.036	0.038	-5.6	112	0.00	3.74- 3.94
33		Chlordane {B}	0.049	0.045	8.2	99	0.00	4.63- 4.83
34		Chlordane {C}	0.160	0.138	13.7	92	0.00	5.60- 5.80
35		Chlordane {D}	0.264	0.230	12.9	93	0.00	5.84- 6.04
36		Chlordane {E}	0.037	0.034	8.1	99	0.00	7.40- 7.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g36065.D 6PST1034.M Mon Jun 13 13:44:25 2016

Initial Calibration Verification

Job Number: JC22206 **Sample:** G6G1034-ICV1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36073.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1034\6g36073.D\ECD1A.CH    Vial: 16
Signal #2 : C:\msdchem\1\DATA\1034\6g36073.D\ECD2B.CH
Acq On    : 10 Jun 2016   8:27 pm                    Operator: dharas
Sample    : icv1034-500                              Inst    : HP G1530A
Misc      : op94394,g6g1034,300,,,2,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 13 12:02:56 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	0.98- 1.04
2 SAB	Tetrachloro-m-xylene	0.948	0.840	11.4	90	0.00	1.70- 1.76
24 SAB	Decachlorobiphenyl	0.931	0.821	11.8	97	0.00	9.56- 9.62
25 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	0.98- 1.04
26 L8	Toxaphene{A}	0.015	0.016	-6.7	117	0.00	4.94- 5.14
27 L8	Toxaphene{B}	0.040	0.043	-7.5	116	0.00	5.32- 5.52
28 L8	Toxaphene{C}	0.045	0.046	-2.2	109	0.00	5.59- 5.79
29 L8	Toxaphene{D}	0.041	0.040	2.4	107	0.00	6.15- 6.35
30 L8	Toxaphene{E}	0.029	0.028	3.4	104	0.00	6.83- 7.03

***** Signal #2 *****

1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.32- 1.38
2 SAB	Tetrachloro-m-xylene	1.012	0.904	10.7	91	0.00	2.26- 2.32
24 SAB	Decachlorobiphenyl	1.217	1.101	9.5	97	0.00	11.57-11.63
25 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.32- 1.38
26 L8	Toxaphene{A}	0.023	0.023	0.0	104	0.00	6.37- 6.57
27 L8	Toxaphene{B}	0.030	0.029	3.3	104	0.00	7.29- 7.49
28 L8	Toxaphene{C}	0.049	0.046	6.1	102	0.00	7.47- 7.67
29 L8	Toxaphene{D}	0.030	0.030	0.0	105	0.00	7.95- 8.15
30 L8	Toxaphene{E}	0.026	0.024	7.7	100	0.00	8.93- 9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6g36065.D 6PST1034.M Mon Jun 13 13:44:27 2016

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1047-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36617.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1047\6g36617.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1047\6g36617.D\ECD2B.CH
Acq On    : 27 Jun 2016   5:14 pm                    Operator: dharas
Sample    : cc1034-25                                 Inst    : HP G1530A
Misc      : op95109,g6g1047,15.1,,,10,10             Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 27 08:34:56 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	88	-0.01	0.97- 1.03
2	SAB	Tetrachloro-m-xylene	0.948	0.878	7.4	86	0.00	1.69- 1.75
3	A	alpha-BHC	1.248	1.151	7.8	84	0.00	2.21- 2.27
4	MA	gamma-BHC	1.161	1.074	7.5	84	0.00	2.53- 2.59
5	MA	Heptachlor	1.150	1.023	11.0	82	0.00	3.05- 3.11
6	B	beta-BHC	0.578	0.511	11.6	83	0.00	2.62- 2.68
7	B	delta-BHC	1.150	0.984	14.4	80	0.00	2.81- 2.87
8	MB	Aldrin	1.085	0.965	11.1	81	0.00	3.38- 3.45
9	B	Heptachlor Epoxide	1.047	0.927	11.5	82	0.00	4.12- 4.18
10	B	gamma-Chlordane	1.096	0.872	20.4#	76	0.00	4.30- 4.36
11	B	alpha-Chlordane	1.058	0.895	15.4	79	0.00	4.47- 4.53
12	A	Endosulfan I	1.127	0.993	11.9	82	0.00	4.65- 4.71
13	B	4,4'-DDE	0.779	0.683	12.3	81	0.00	4.61- 4.67
14	MA	Dieldrin	1.015	0.902	11.1	82	0.00	4.98- 5.04
15	MA	Endrin	0.928	0.854	8.0	85	0.00	5.32- 5.38
16	A	4,4'-DDD	0.738	0.671	9.1	83	0.00	5.49- 5.55
17	B	Endosulfan II	0.949	0.847	10.7	82	0.00	5.66- 5.72
18	MA	4,4'-DDT	0.716	0.629	12.2	82	0.00	5.92- 5.98
19	B	Endrin Aldehyde	0.747	0.671	10.2	81	0.00	6.31- 6.37
20	B	Endosulfan Sulfate	0.806	0.705	12.5	81	0.00	7.04- 7.10
21	A	Methoxychlor	0.423	0.364	13.9	81	0.00	6.79- 6.85
22		Mirex	0.880	0.724	17.7	77	0.00	6.89- 6.95
23	B	Endrin Ketone	0.912	0.833	8.7	82	0.00	7.50- 7.56
24	SAB	Decachlorobiphenyl	0.931	0.824	11.5	83	0.00	9.54- 9.60
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	-0.01	0.97- 1.03
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	0#	-0.01	0.97- 1.03
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.6 10

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1047-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36617.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.31- 1.37
2	SAB	Tetrachloro-m-xylene	1.012	0.955	5.6	92	0.00	2.25- 2.31
3	A	alpha-BHC	1.222	1.146	6.2	92	0.00	2.96- 3.02
4	MA	gamma-BHC	1.145	1.108	3.2	93	0.00	3.41- 3.47
5	MA	Heptachlor	1.202	1.216	-1.2	97	0.00	4.00- 4.06
6	B	beta-BHC	0.601	0.564	6.2	92	0.00	3.51- 3.57
7	B	delta-BHC	1.099	1.015	7.6	90	0.00	3.91- 3.97
8	MB	Aldrin	1.150	1.106	3.8	94	0.00	4.47- 4.53
9	B	Heptachlor Epoxide	1.146	1.068	6.8	92	0.00	5.34- 5.40
10	B	gamma-Chlordane	1.159	1.071	7.6	91	0.00	5.65- 5.71
11	B	alpha-Chlordane	1.173	1.081	7.8	91	0.00	5.89- 5.95
12	A	Endosulfan I	1.084	1.004	7.4	91	0.00	5.98- 6.04
13	B	4,4'-DDE	0.994	1.066	-7.2	103	0.00	6.19- 6.25
14	MA	Dieldrin	1.069	1.044	2.3	94	0.00	6.45- 6.51
15	MA	Endrin	0.978	0.971	0.7	94	0.00	6.98- 7.04
16	A	4,4'-DDD	0.826	0.788	4.6	96	0.00	7.21- 7.27
17	B	Endosulfan II	0.994	0.960	3.4	92	0.00	7.37- 7.43
18	MA	4,4'-DDT	0.763	0.753	1.3	97	0.00	7.79- 7.85
19	B	Endrin Aldehyde	0.826	0.793	4.0	89	0.00	7.99- 8.05
20	B	Endosulfan Sulfate	0.898	0.841	6.3	90	0.00	8.51- 8.57
21	A	Methoxychlor	0.482	0.465	3.5	92	0.00	9.17- 9.23
22		Mirex	1.038	0.910	12.3	83	0.00	9.45- 9.51
23	B	Endrin Ketone	0.985	0.965	2.0	91	0.00	9.54- 9.60
24	SAB	Decachlorobiphenyl	1.217	1.147	5.8	92	0.00	11.56-11.62
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.31- 1.37
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	0#	0.00	1.24- 1.44
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
6g36064.D 6PST1034.M Tue Jun 28 09:06:08 2016

10.9.6

10

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1047-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36638.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1047\6g36638.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1047\6g36638.D\ECD2B.CH
Acq On    : 27 Jun 2016  10:59 pm                    Operator: dharas
Sample    : cc1034-50                                Inst    : HP G1530A
Misc      : op95079,g6g1047,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 27 08:34:56 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	92	0.00	0.98- 1.04
2	SAB	Tetrachloro-m-xylene	0.948	0.912	3.8	89	0.00	1.70- 1.76
3	A	alpha-BHC	1.248	1.249	-0.1	86	0.00	2.22- 2.28
4	MA	gamma-BHC	1.161	1.143	1.6	85	0.00	2.53- 2.59
5	MA	Heptachlor	1.150	1.035	10.0	82	0.00	3.05- 3.11
6	B	beta-BHC	0.578	0.506	12.5	84	0.00	2.62- 2.68
7	B	delta-BHC	1.150	1.048	8.9	80	0.00	2.81- 2.87
8	MB	Aldrin	1.085	1.047	3.5	85	0.00	3.39- 3.46
9	B	Heptachlor Epoxide	1.047	0.968	7.5	85	0.00	4.12- 4.18
10	B	gamma-Chlordane	1.096	0.978	10.8	85	0.00	4.30- 4.36
11	B	alpha-Chlordane	1.058	0.966	8.7	85	0.00	4.47- 4.53
12	A	Endosulfan I	1.127	1.207	-7.1	100	0.00	4.65- 4.71
13	B	4,4'-DDE	0.779	0.587	24.6#	66	0.00	4.62- 4.68
14	MA	Dieldrin	1.015	0.973	4.1	86	0.00	4.99- 5.05
15	MA	Endrin	0.928	0.840	9.5	81	0.00	5.32- 5.38
16	A	4,4'-DDD	0.738	0.676	8.4	82	0.00	5.50- 5.56
17	B	Endosulfan II	0.949	0.894	5.8	87	0.00	5.66- 5.72
18	MA	4,4'-DDT	0.716	0.615	14.1	76	0.00	5.93- 5.99
19	B	Endrin Aldehyde	0.747	0.723	3.2	89	0.00	6.32- 6.38
20	B	Endosulfan Sulfate	0.806	0.730	9.4	84	0.00	7.04- 7.10
21	A	Methoxychlor	0.423	0.310	26.7#	69	0.00	6.80- 6.86
22		Mirex	0.880	0.755	14.2	86	0.00	6.89- 6.95
23	B	Endrin Ketone	0.912	0.937	-2.7	92	0.00	7.51- 7.57
24	SAB	Decachlorobiphenyl	0.931	0.821	11.8	88	0.00	9.54- 9.60
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	0.98- 1.04
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	98	0.00	0.98- 1.04
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.9.7 10

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1047-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36638.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.32- 1.38
2	SAB	Tetrachloro-m-xylene	1.012	0.988	2.4	93	0.00	2.25- 2.31
3	A	alpha-BHC	1.222	1.295	-6.0	92	0.00	2.96- 3.02
4	MA	gamma-BHC	1.145	1.213	-5.9	92	0.00	3.41- 3.47
5	MA	Heptachlor	1.202	1.266	-5.3	94	0.00	4.00- 4.06
6	B	beta-BHC	0.601	0.579	3.7	91	0.00	3.51- 3.57
7	B	delta-BHC	1.099	1.093	0.5	87	0.00	3.92- 3.98
8	MB	Aldrin	1.150	1.214	-5.6	95	0.00	4.47- 4.53
9	B	Heptachlor Epoxide	1.146	1.155	-0.8	95	0.00	5.34- 5.40
10	B	gamma-Chlordane	1.159	1.179	-1.7	95	0.00	5.65- 5.71
11	B	alpha-Chlordane	1.173	1.180	-0.6	94	0.00	5.89- 5.95
12	A	Endosulfan I	1.084	1.100	-1.5	95	0.00	5.98- 6.04
13	B	4,4'-DDE	0.994	1.105	-11.2	99	0.00	6.19- 6.25
14	MA	Dieldrin	1.069	1.133	-6.0	95	0.00	6.45- 6.51
15	MA	Endrin	0.978	0.979	-0.1	90	0.00	6.98- 7.04
16	A	4,4'-DDD	0.826	0.824	0.2	96	0.00	7.22- 7.28
17	B	Endosulfan II	0.994	1.045	-5.1	98	0.00	7.37- 7.43
18	MA	4,4'-DDT	0.763	0.743	2.6	86	0.00	7.79- 7.85
19	B	Endrin Aldehyde	0.826	0.885	-7.1	98	0.00	7.99- 8.05
20	B	Endosulfan Sulfate	0.898	0.898	0.0	94	0.00	8.50- 8.56
21	A	Methoxychlor	0.482	0.434	10.0	85	0.00	9.17- 9.23
22		Mirex	1.038	1.015	2.2	98	0.00	9.45- 9.51
23	B	Endrin Ketone	0.985	1.129	-14.6	103	0.00	9.54- 9.60
24	SAB	Decachlorobiphenyl	1.217	1.157	4.9	96	0.00	11.55-11.61
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.32- 1.38
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	1.25- 1.45
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
6g36065.D 6PST1034.M Tue Jun 28 09:31:33 2016

10.9.7

10

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1048-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36651.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1048\6g36651.D\ECD1A.CH    Vial: 2
Signal #2 : C:\msdchem\1\DATA\1048\6g36651.D\ECD2B.CH
Acq On    : 28 Jun 2016   9:23 am                    Operator: kristend
Sample    : cc1034-25                                Inst    : HP G1530A
Misc      : op95064,g6g1048,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 27 08:34:56 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	0.97- 1.03
2	SAB	Tetrachloro-m-xylene	0.948	0.903	4.7	101	0.00	1.69- 1.75
3	A	alpha-BHC	1.248	1.204	3.5	100	0.00	2.21- 2.27
4	MA	gamma-BHC	1.161	1.116	3.9	99	0.00	2.53- 2.59
5	MA	Heptachlor	1.150	1.040	9.6	95	0.00	3.05- 3.11
6	B	beta-BHC	0.578	0.533	7.8	99	0.00	2.61- 2.67
7	B	delta-BHC	1.150	1.000	13.0	93	0.00	2.81- 2.87
8	MB	Aldrin	1.085	0.984	9.3	95	0.00	3.39- 3.46
9	B	Heptachlor Epoxide	1.047	0.913	12.8	92	0.00	4.12- 4.18
10	B	gamma-Chlordane	1.096	0.863	21.3#	86	0.00	4.29- 4.35
11	B	alpha-Chlordane	1.058	0.885	16.4	90	0.00	4.47- 4.53
12	A	Endosulfan I	1.127	0.971	13.8	92	0.00	4.65- 4.71
13	B	4,4'-DDE	0.779	0.691	11.3	94	0.00	4.61- 4.67
14	MA	Dieldrin	1.015	0.911	10.2	95	0.00	4.98- 5.04
15	MA	Endrin	0.928	0.858	7.5	97	0.00	5.32- 5.38
16	A	4,4'-DDD	0.738	0.669	9.3	95	0.00	5.48- 5.54
17	B	Endosulfan II	0.949	0.863	9.1	96	0.00	5.65- 5.71
18	MA	4,4'-DDT	0.716	0.668	6.7	99	0.00	5.92- 5.98
19	B	Endrin Aldehyde	0.747	0.700	6.3	97	0.00	6.31- 6.37
20	B	Endosulfan Sulfate	0.806	0.766	5.0	101	0.00	7.04- 7.10
21	A	Methoxychlor	0.423	0.394	6.9	100	0.00	6.78- 6.84
22		Mirex	0.880	0.755	14.2	92	0.00	6.89- 6.95
23	B	Endrin Ketone	0.912	0.919	-0.8	103	0.00	7.50- 7.56
24	SAB	Decachlorobiphenyl	0.931	0.845	9.2	97	0.00	9.53- 9.59
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	0.97- 1.03
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	0#	0.00	0.97- 1.03
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

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1048-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36651.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.31- 1.37
2	SAB	Tetrachloro-m-xylene	1.012	0.972	4.0	107	0.00	2.25- 2.31
3	A	alpha-BHC	1.222	1.207	1.2	111	0.00	2.96- 3.02
4	MA	gamma-BHC	1.145	1.143	0.2	110	0.00	3.41- 3.47
5	MA	Heptachlor	1.202	1.256	-4.5	115	0.00	4.00- 4.06
6	B	beta-BHC	0.601	0.571	5.0	107	0.00	3.50- 3.56
7	B	delta-BHC	1.099	1.062	3.4	108	0.00	3.91- 3.97
8	MB	Aldrin	1.150	1.148	0.2	111	0.00	4.47- 4.53
9	B	Heptachlor Epoxide	1.146	1.128	1.6	112	0.00	5.34- 5.40
10	B	gamma-Chlordane	1.159	1.124	3.0	110	0.00	5.64- 5.70
11	B	alpha-Chlordane	1.173	1.134	3.3	109	0.00	5.88- 5.94
12	A	Endosulfan I	1.084	1.060	2.2	110	0.00	5.98- 6.04
13	B	4,4'-DDE	0.994	1.083	-9.0	120	0.00	6.18- 6.25
14	MA	Dieldrin	1.069	1.072	-0.3	111	0.00	6.45- 6.51
15	MA	Endrin	0.978	0.998	-2.0	110	0.00	6.98- 7.04
16	A	4,4'-DDD	0.826	0.791	4.2	111	0.00	7.21- 7.27
17	B	Endosulfan II	0.994	0.997	-0.3	110	0.00	7.37- 7.43
18	MA	4,4'-DDT	0.763	0.793	-3.9	117	0.00	7.79- 7.85
19	B	Endrin Aldehyde	0.826	0.846	-2.4	109	0.00	7.99- 8.05
20	B	Endosulfan Sulfate	0.898	0.933	-3.9	115	0.00	8.50- 8.56
21	A	Methoxychlor	0.482	0.503	-4.4	115	0.00	9.16- 9.22
22		Mirex	1.038	0.988	4.8	103	0.00	9.45- 9.51
23	B	Endrin Ketone	0.985	1.077	-9.3	117	0.00	9.54- 9.60
24	SAB	Decachlorobiphenyl	1.217	1.130	7.1	104	0.00	11.56-11.62
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.31- 1.37
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	0#	0.00	1.24- 1.44
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
6g36064.D 6PST1034.M Tue Jun 28 11:10:49 2016

10.9.8 10

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1048-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36673.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\1048\6g36673.D\ECD1A.CH    Vial: 4
Signal #2 : C:\msdchem\1\DATA\1048\6g36673.D\ECD2B.CH
Acq On    : 28 Jun 2016   3:01 pm                    Operator: kristend
Sample    : cc1034-50                                Inst    : HP G1530A
Misc      : op94807,g6g1048,15.4,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 27 08:34:56 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	97	0.00	0.97- 1.03
2	SAB	Tetrachloro-m-xylene	0.948	0.934	1.5	97	0.00	1.69- 1.75
3	A	alpha-BHC	1.248	1.324	-6.1	97	0.00	2.21- 2.27
4	MA	gamma-BHC	1.161	1.213	-4.5	96	0.00	2.53- 2.59
5	MA	Heptachlor	1.150	1.165	-1.3	98	0.00	3.05- 3.11
6	B	beta-BHC	0.578	0.523	9.5	92	0.00	2.62- 2.68
7	B	delta-BHC	1.150	1.115	3.0	90	0.00	2.81- 2.87
8	MB	Aldrin	1.085	1.101	-1.5	95	0.00	3.38- 3.45
9	B	Heptachlor Epoxide	1.047	1.022	2.4	96	0.00	4.12- 4.18
10	B	gamma-Chlordane	1.096	1.026	6.4	95	0.00	4.29- 4.35
11	B	alpha-Chlordane	1.058	1.012	4.3	95	0.00	4.47- 4.53
12	A	Endosulfan I	1.127	1.242	-10.2	109	0.00	4.64- 4.70
13	B	4,4'-DDE	0.779	0.636	18.4	76	0.00	4.61- 4.67
14	MA	Dieldrin	1.015	1.026	-1.1	96	0.00	4.98- 5.04
15	MA	Endrin	0.928	0.951	-2.5	98	0.00	5.31- 5.37
16	A	4,4'-DDD	0.738	0.693	6.1	90	0.00	5.49- 5.55
17	B	Endosulfan II	0.949	0.950	-0.1	98	0.00	5.65- 5.71
18	MA	4,4'-DDT	0.716	0.710	0.8	93	0.00	5.92- 5.98
19	B	Endrin Aldehyde	0.747	0.741	0.8	97	0.00	6.31- 6.37
20	B	Endosulfan Sulfate	0.806	0.796	1.2	97	0.00	7.04- 7.10
21	A	Methoxychlor	0.423	0.377	10.9	89	0.00	6.79- 6.85
22		Mirex	0.880	0.803	8.7	97	0.00	6.89- 6.95
23	B	Endrin Ketone	0.912	1.011	-10.9	106	0.00	7.50- 7.56
24	SAB	Decachlorobiphenyl	0.931	0.860	7.6	98	0.00	9.53- 9.59
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	0.97- 1.03
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	0.97- 1.03
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Continuing Calibration Summary

Job Number: JC22206 **Sample:** G6G1048-CC1034
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6G36673.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	102	0.00	1.31- 1.37
2	SAB	Tetrachloro-m-xylene	1.012	0.993	1.9	101	0.00	2.25- 2.31
3	A	alpha-BHC	1.222	1.328	-8.7	101	0.00	2.96- 3.02
4	MA	gamma-BHC	1.145	1.243	-8.6	101	0.00	3.41- 3.47
5	MA	Heptachlor	1.202	1.370	-14.0	110	0.00	4.00- 4.06
6	B	beta-BHC	0.601	0.580	3.5	99	0.00	3.51- 3.57
7	B	delta-BHC	1.099	1.130	-2.8	97	0.00	3.92- 3.98
8	MB	Aldrin	1.150	1.243	-8.1	105	0.00	4.47- 4.53
9	B	Heptachlor Epoxide	1.146	1.189	-3.8	105	0.00	5.34- 5.40
10	B	gamma-Chlordane	1.159	1.199	-3.5	104	0.00	5.64- 5.70
11	B	alpha-Chlordane	1.173	1.196	-2.0	103	0.00	5.88- 5.94
12	A	Endosulfan I	1.084	1.121	-3.4	105	0.00	5.98- 6.04
13	B	4,4'-DDE	0.994	1.063	-6.9	103	0.00	6.19- 6.25
14	MA	Dieldrin	1.069	1.155	-8.0	104	0.00	6.44- 6.50
15	MA	Endrin	0.978	1.081	-10.5	107	0.00	6.98- 7.04
16	A	4,4'-DDD	0.826	0.834	-1.0	105	0.00	7.22- 7.28
17	B	Endosulfan II	0.994	1.072	-7.8	108	0.00	7.37- 7.43
18	MA	4,4'-DDT	0.763	0.855	-12.1	107	0.00	7.79- 7.85
19	B	Endrin Aldehyde	0.826	0.885	-7.1	106	0.00	7.99- 8.05
20	B	Endosulfan Sulfate	0.898	0.951	-5.9	107	0.00	8.50- 8.56
21	A	Methoxychlor	0.482	0.504	-4.6	106	0.00	9.16- 9.22
22		Mirex	1.038	1.008	2.9	105	0.00	9.45- 9.51
23	B	Endrin Ketone	0.985	1.151	-16.9	113	0.00	9.54- 9.60
24	SAB	Decachlorobiphenyl	1.217	1.132	7.0	101	0.00	11.56-11.62
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.31- 1.37
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	1.24- 1.44
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
6g36065.D 6PST1034.M Tue Jun 28 16:15:36 2016

10.9.9 10

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 6:53 pm
Operator : dharas
Sample : jc22206-4
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:39:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	0.999	1.337	120.9E6	54922345	50.000	50.000
25) I	1-bromo-2...	0.999	1.337	120.9E6	54922345	50.000	50.000
31) I	1-bromo-2...	0.999	1.337	120.9E6	54922345	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.718	2.279	93664467	42570437	40.834	38.295
Spiked Amount		40.000	Range	30 - 150	Recovery	= 102.09%	95.74%
24) SAB	Decachlor...	9.566	11.585	76746358	46522568	34.097	34.806
Spiked Amount		40.000			Recovery	= 85.24%	87.02%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

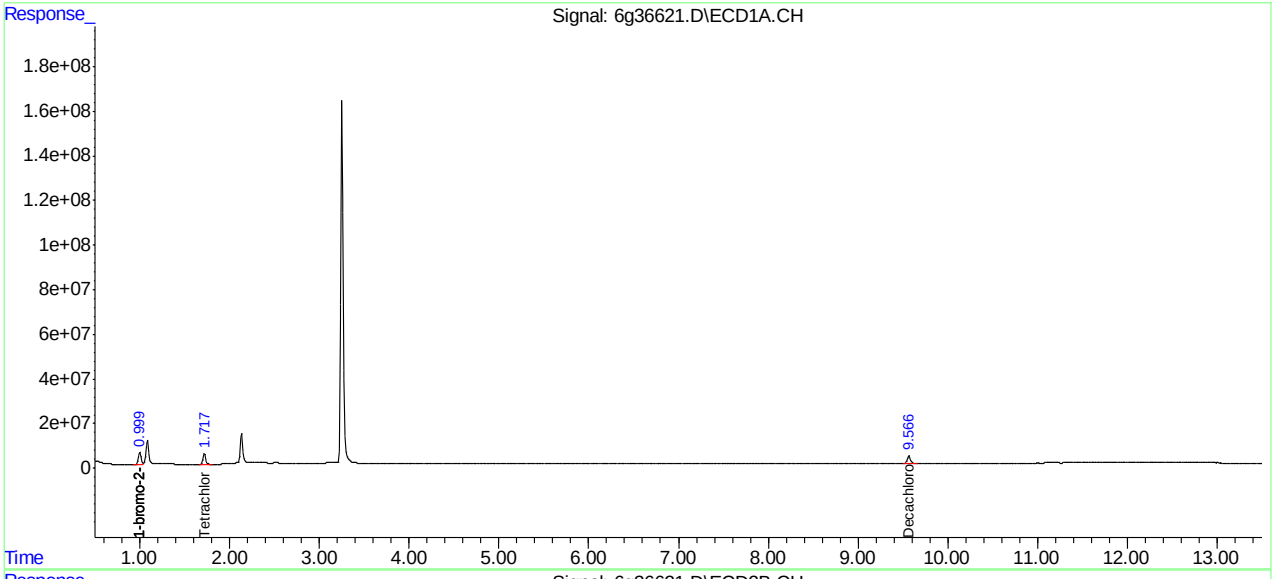
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

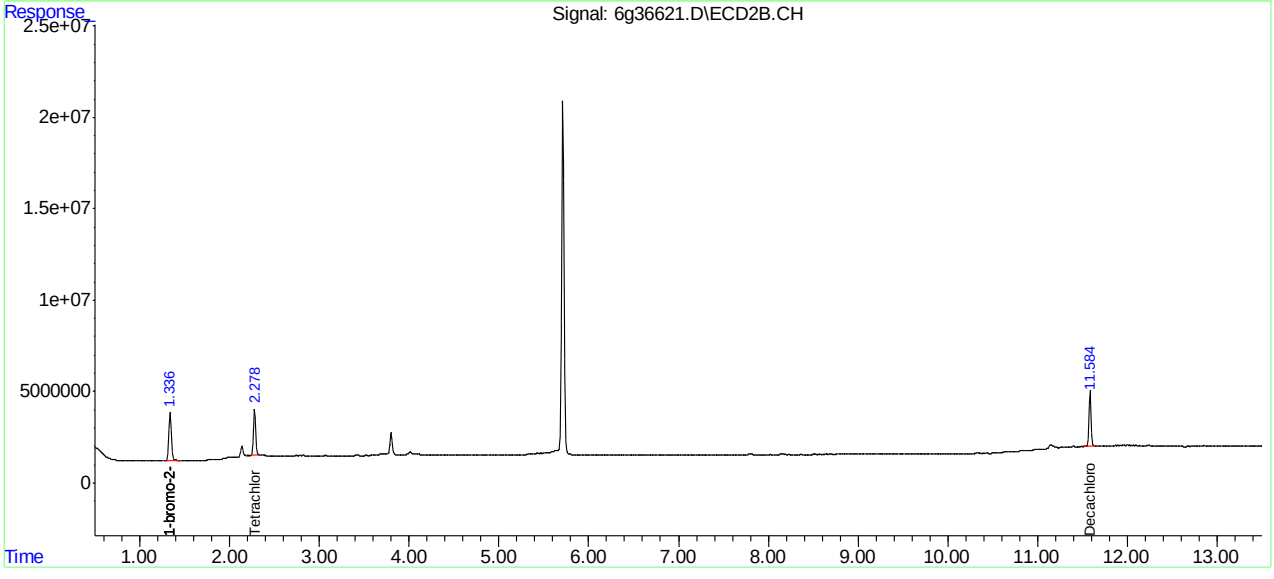
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36621.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 6:53 pm
Operator : dharas
Sample : jc22206-4
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:39:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36622.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:09 pm
Operator : dharas
Sample : jc22206-5
Misc : op94861,g6g1047,980,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:40:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.002	1.340	118.8E6	54553716	50.000	50.000
25) I	1-bromo-2...	1.002	1.340	118.8E6	54553716	50.000	50.000
31) I	1-bromo-2...	1.002	1.340	118.8E6	54553716	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.719	2.280	83522546	37487330	37.068	33.950
Spiked Amount		40.000	Range	30 - 150	Recovery	= 92.67%	84.88%
24) SAB	Decachlor...	9.563	11.584	67145192	40610951	30.368	30.589
Spiked Amount		40.000			Recovery	= 75.92%	76.47%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

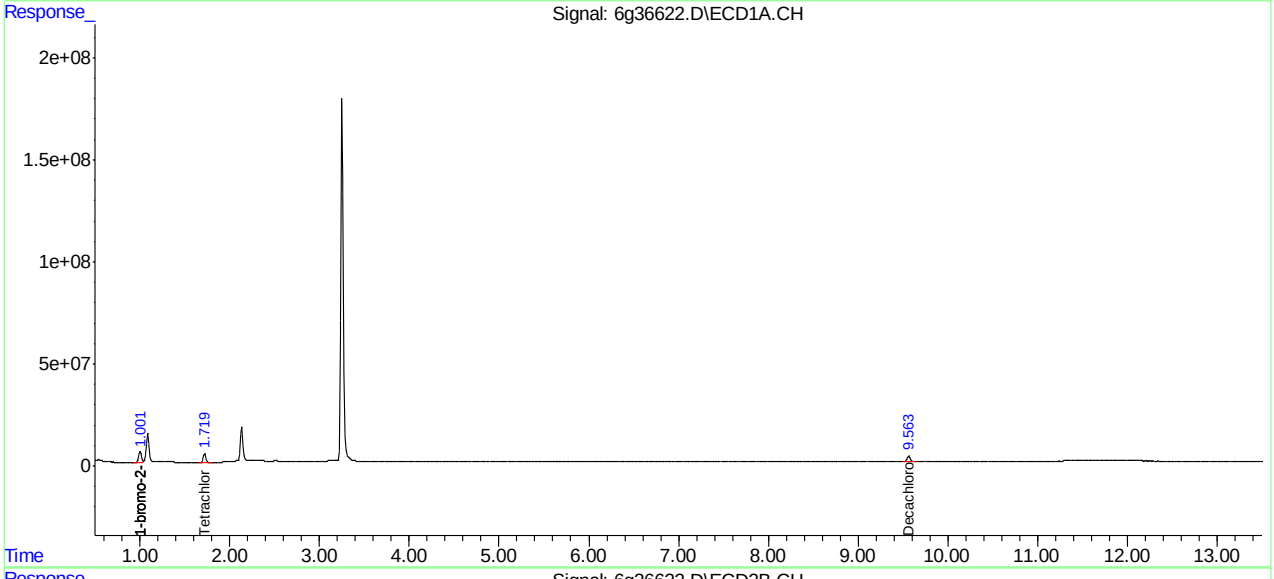
SGS ACCUTEST JC22206

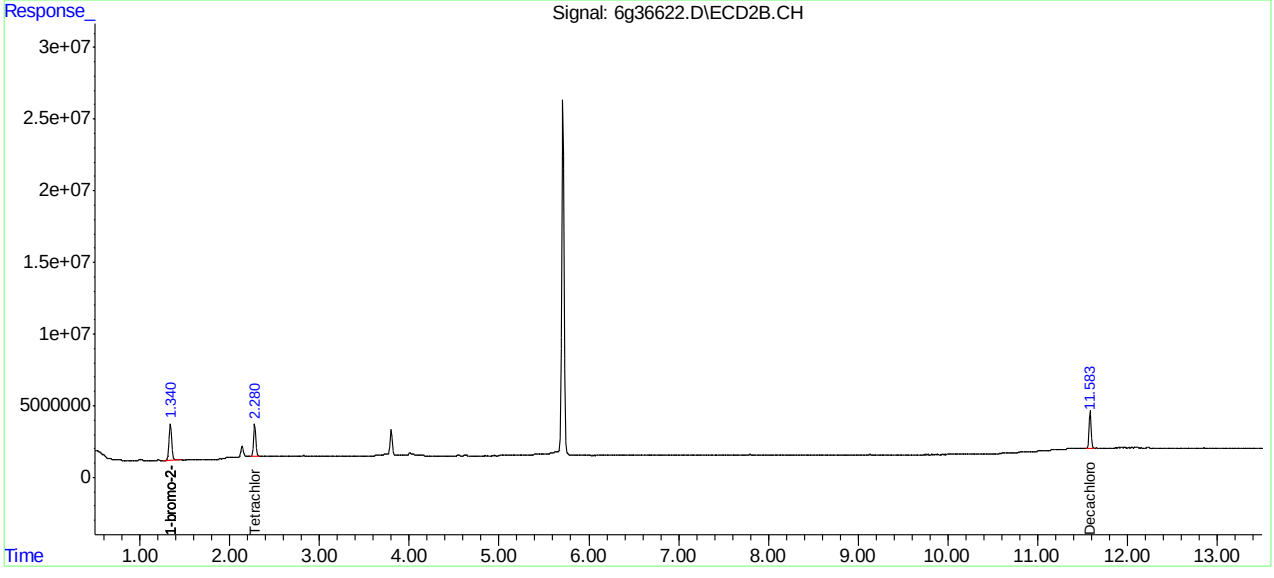
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36622.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:09 pm
Operator : dharas
Sample : jc22206-5
Misc : op94861,g6g1047,980,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:40:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36623.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:25 pm
Operator : dharas
Sample : jc22206-6
Misc : op94861,g6g1047,960,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:42:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.001	1.338	131.8E6	56976497	50.000	50.000
25) I 1-bromo-2...	1.001	1.338	131.8E6	56976497	50.000	50.000
31) I 1-bromo-2...	1.001	1.338	131.8E6	56976497	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.718	2.279	104.7E6	47433930	41.874	41.132
Spiked Amount	40.000	Range	30 - 150	Recovery	= 104.69%	102.83%
24) SAB Decachlor...	9.565	11.585	89373976	54268405	36.435	39.138
Spiked Amount	40.000			Recovery	= 91.09%	97.84%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

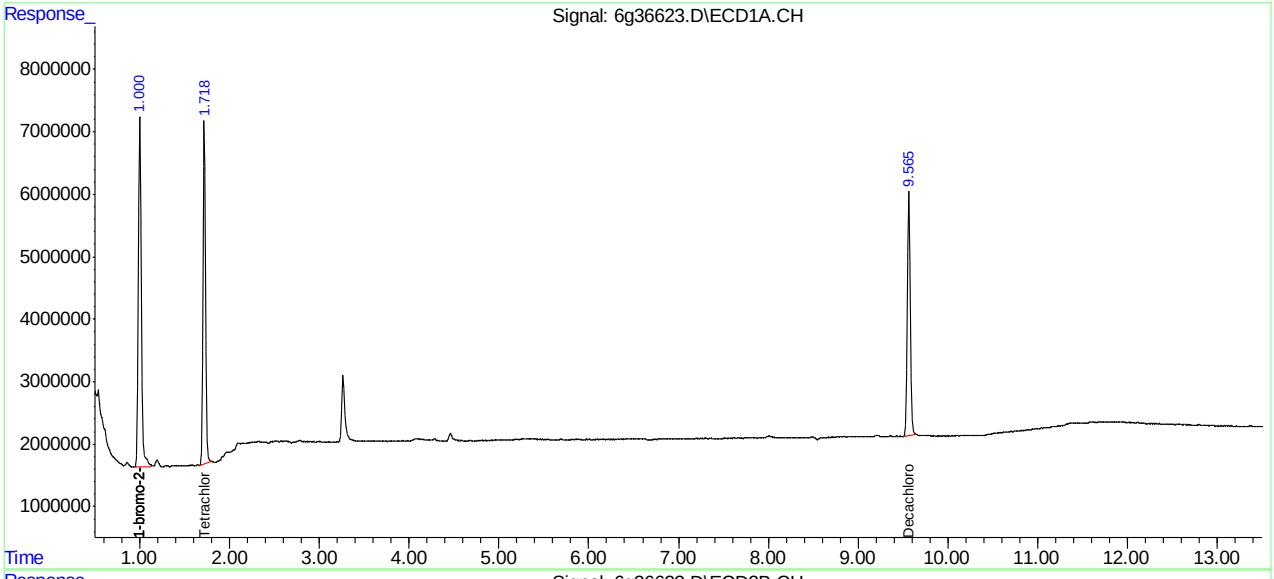
SGS ACCUTEST JC22206

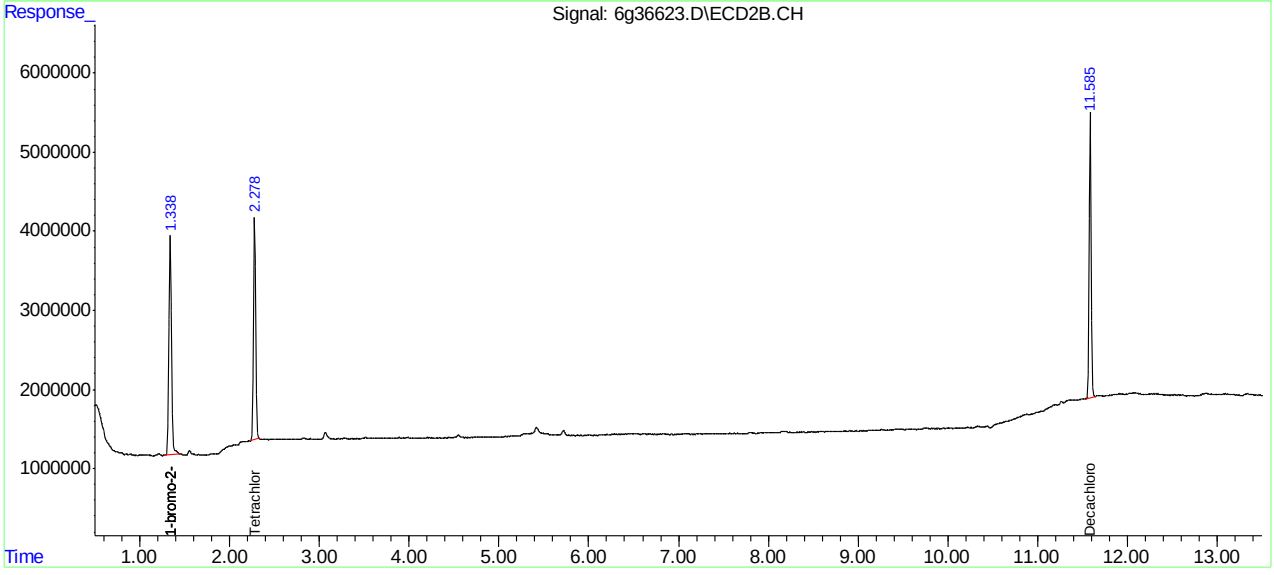
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36623.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:25 pm
Operator : dharas
Sample : jc22206-6
Misc : op94861,g6g1047,960,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:42:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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 JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36624.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:42 pm
Operator : dharas
Sample : jc22206-7
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:43:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.000	1.337	116.9E6	52000886	50.000	50.000
25) I 1-bromo-2...	1.000	1.337	116.9E6	52000886	50.000	50.000
31) I 1-bromo-2...	1.000	1.337	116.9E6	52000886	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.719	2.278	101.5E6	46272718	45.771	43.964
Spiked Amount	40.000	Range	30 - 150	Recovery	= 114.43%	109.91%
24) SAB Decachlor...	9.565	11.584	92781659	55634792	42.641	43.962
Spiked Amount	40.000			Recovery	= 106.60%	109.91%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

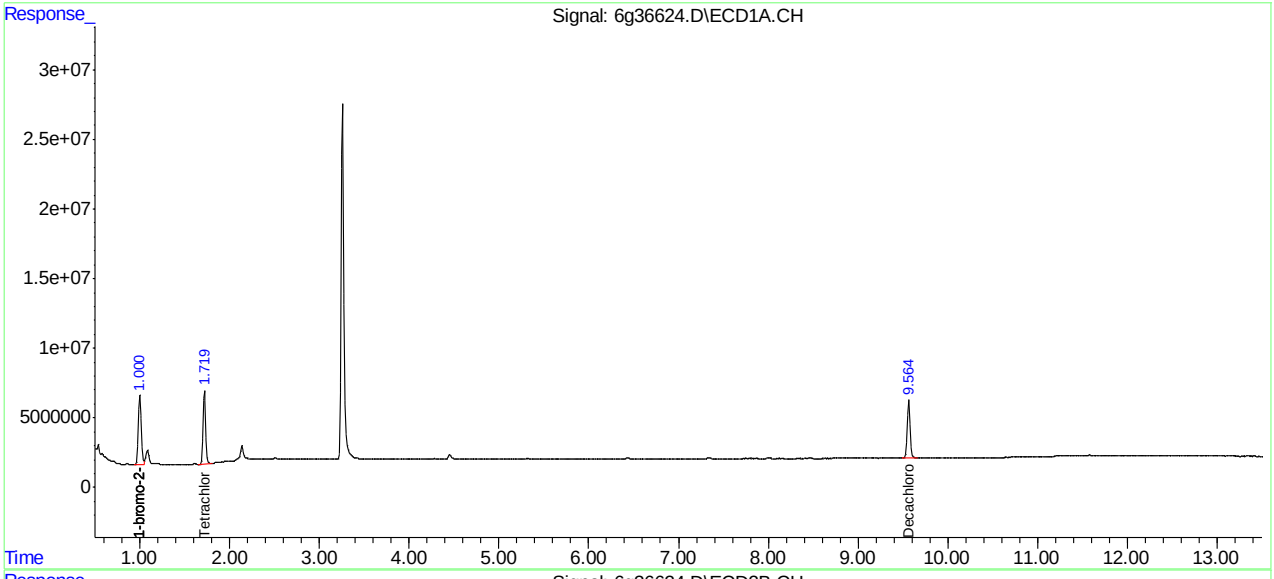
SGS ACCUTEST JC22206

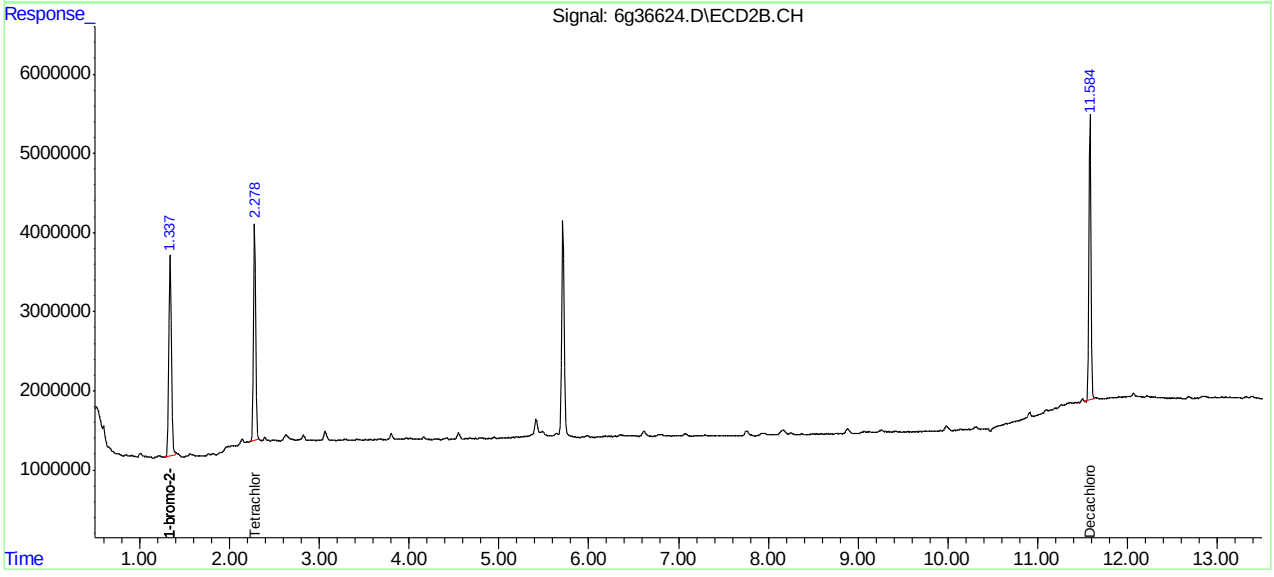
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36624.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:42 pm
Operator : dharas
Sample : jc22206-7
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:43:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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 06/29/16 07:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 10:29 am
Operator : kristend
Sample : jc22206-8
Misc : op94861,g6g1048,960,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 14:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.000	1.343	228.4E6	57382052	50.000	50.000
25) I 1-bromo-2...	1.000	1.343	228.4E6	57382052	50.000	50.000
31) I 1-bromo-2...	1.000	1.343	228.4E6	57382052	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.720	2.281	15471222	7626096	3.571	6.566 #
Spiked Amount	40.000	Range	30 - 150	Recovery	= 8.93%#	16.41%#
24) SAB Decachlor...	9.562	11.590	10558108	5485004	2.483	3.928m#
Spiked Amount	40.000			Recovery	= 6.21%	9.82%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

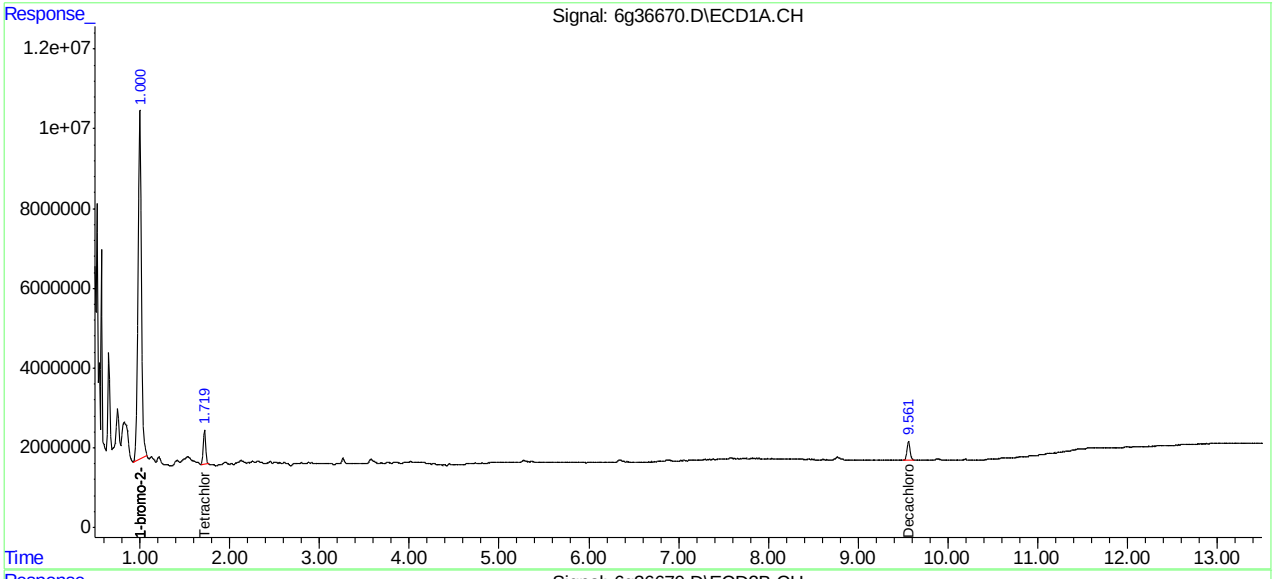
11.1.5 11

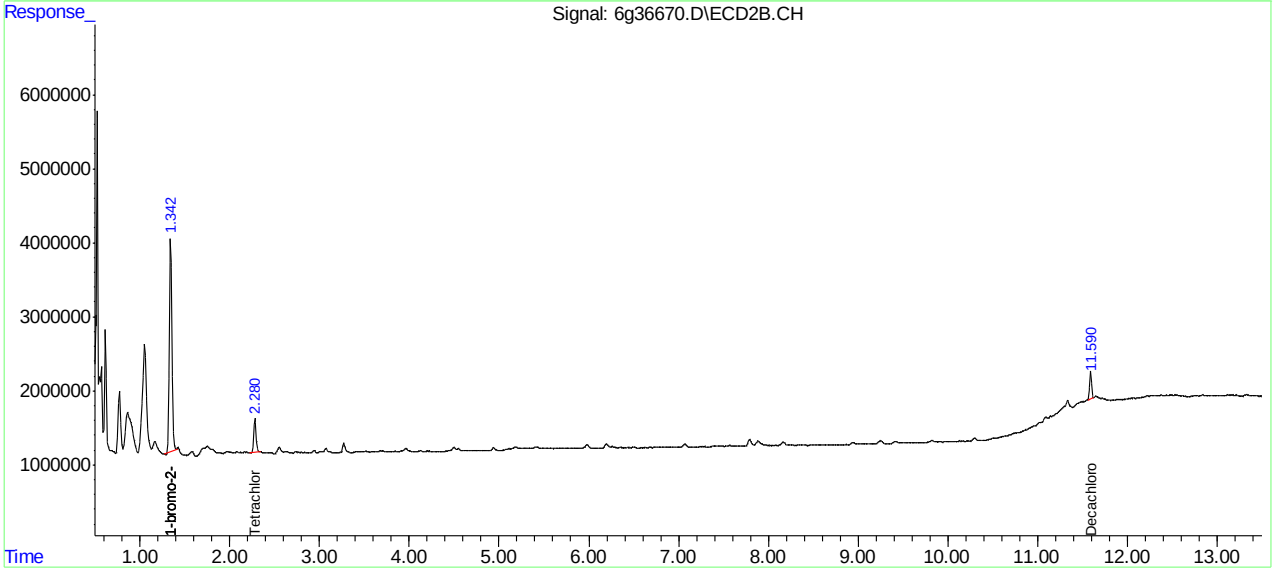
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 10:29 am
Operator : kristend
Sample : jc22206-8
Misc : op94861,g6g1048,960,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 14:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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:	JC22206-8	**Method:**	SW846 8081B
Lab FileID:	6G36670.D	**Analyst approved:**	06/28/16 11:11 Kristen Drake
Injection Time:	06/28/16 10:29	**Supervisor approved:**	06/29/16 07:05 Gwendolyn Burns

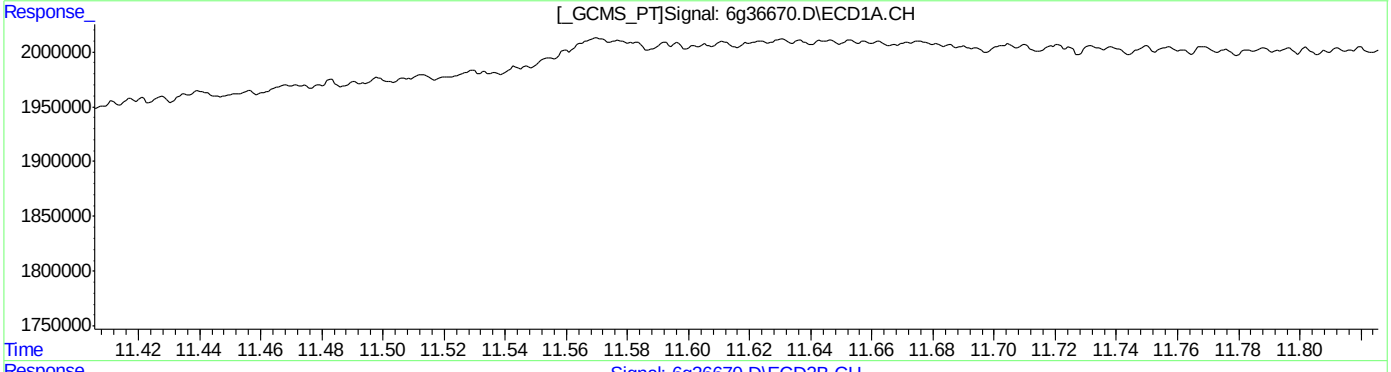
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	11.59	Poorly defined baseline

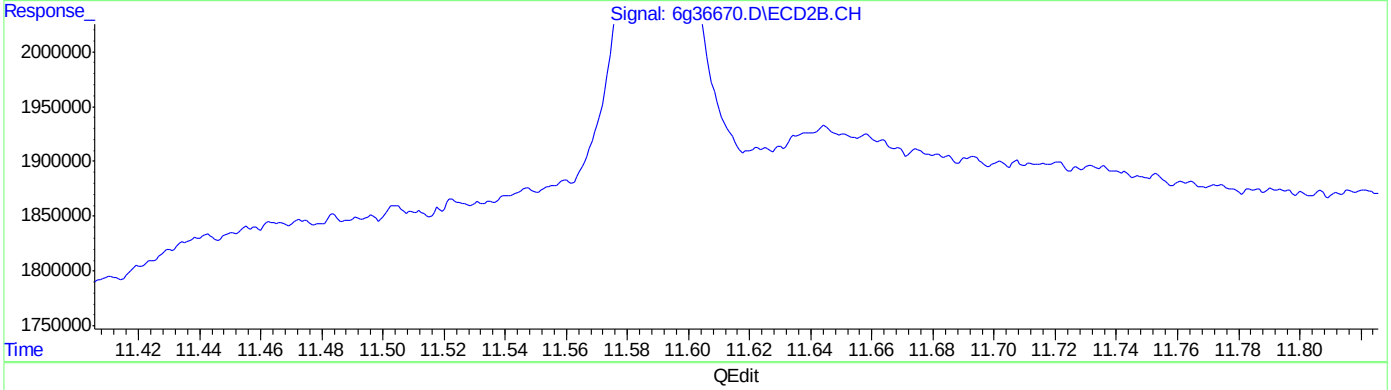
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 10:29 am
Operator : kristend
Sample : jc22206-8
Misc : op94861,g6g1048,960,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:07:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
9.562min 2.447PPB
response 10653059

(24) Decachlorobiphenyl #2 (SAB)
0.000min 0.000PPB
response 0

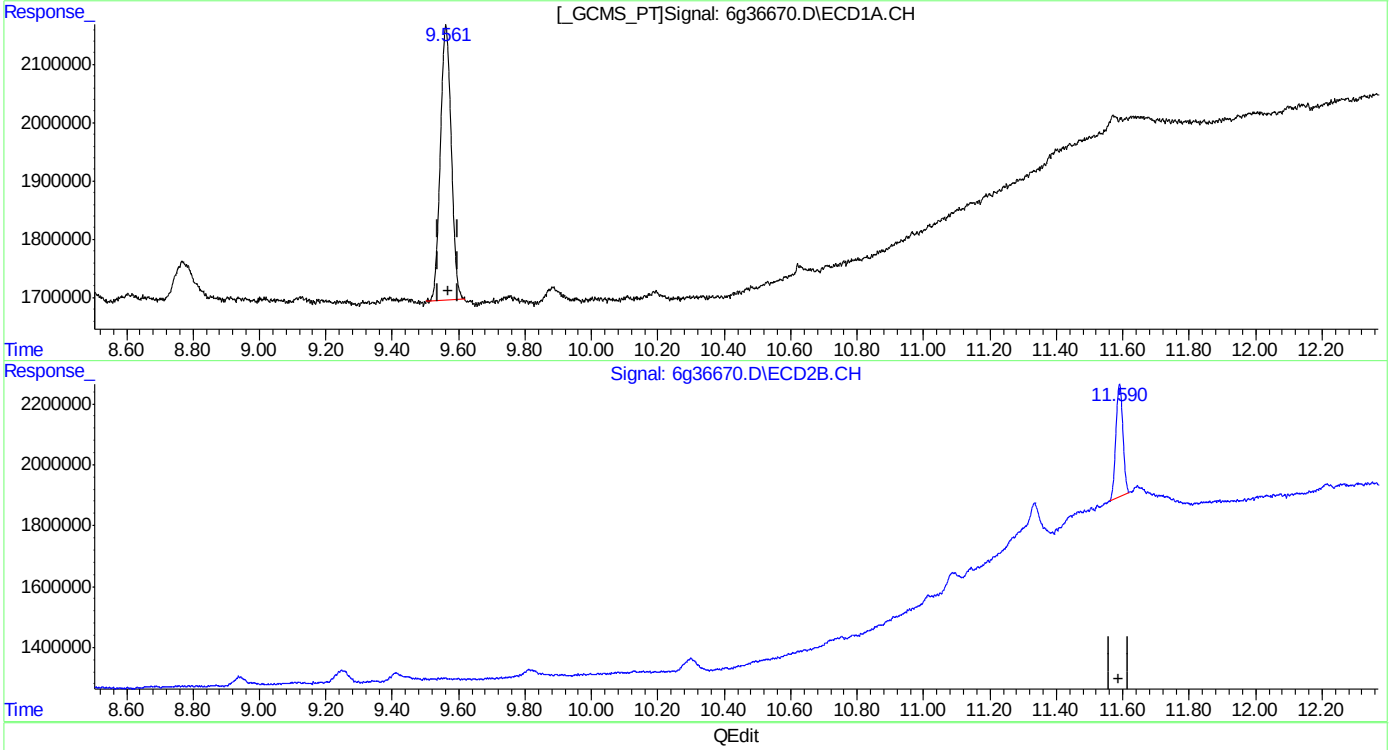
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:08:14 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 10:29 am
Operator : kristend
Sample : jc22206-8
Misc : op94861,g6g1048,960,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:07:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
9.562min 2.447PPB
response 10653059

(24) Decachlorobiphenyl #2 (SAB)
11.590min 3.922PPB m
response 5476533

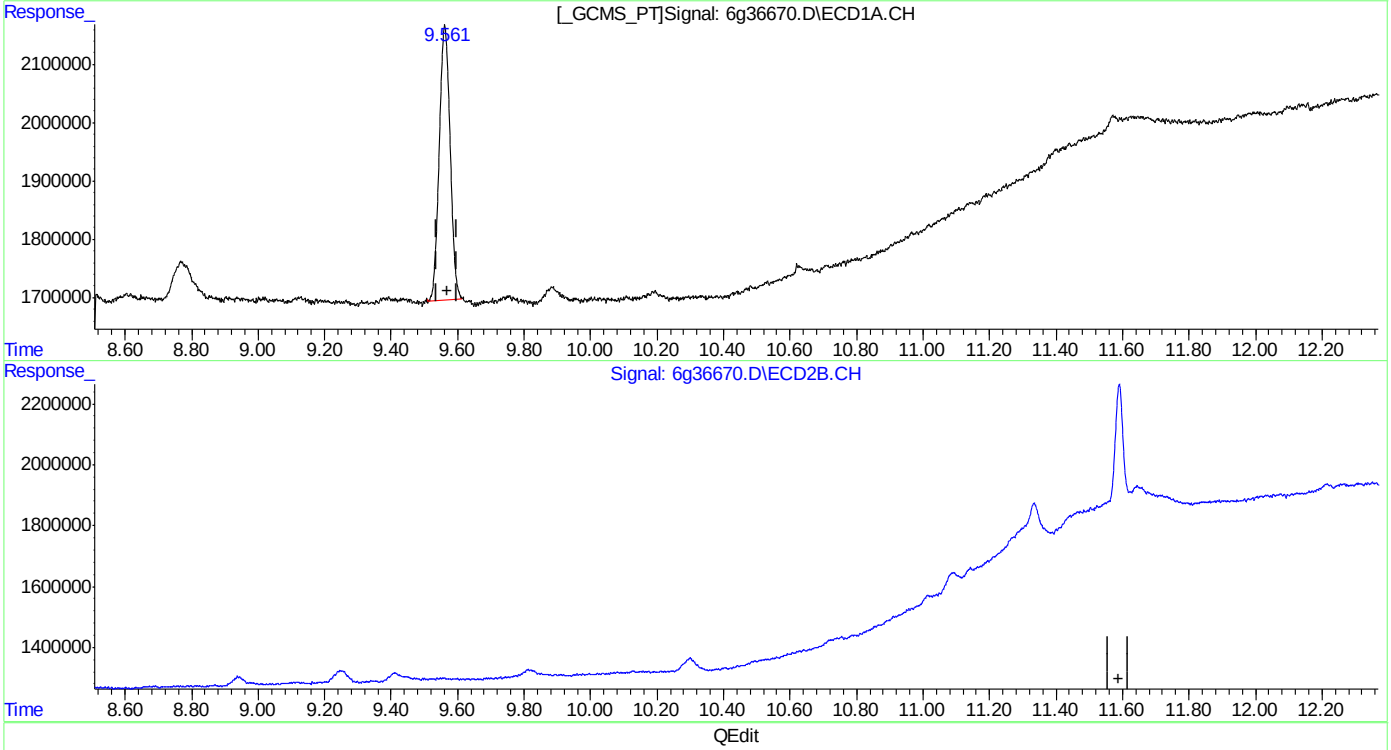
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:08:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 10:29 am
Operator : kristend
Sample : jc22206-8
Misc : op94861,g6g1048,960,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 14:29:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
9.562min 2.483PPB
response 10558108

(24) Decachlorobiphenyl #2 (SAB)
0.000min 0.000PPB
response 0

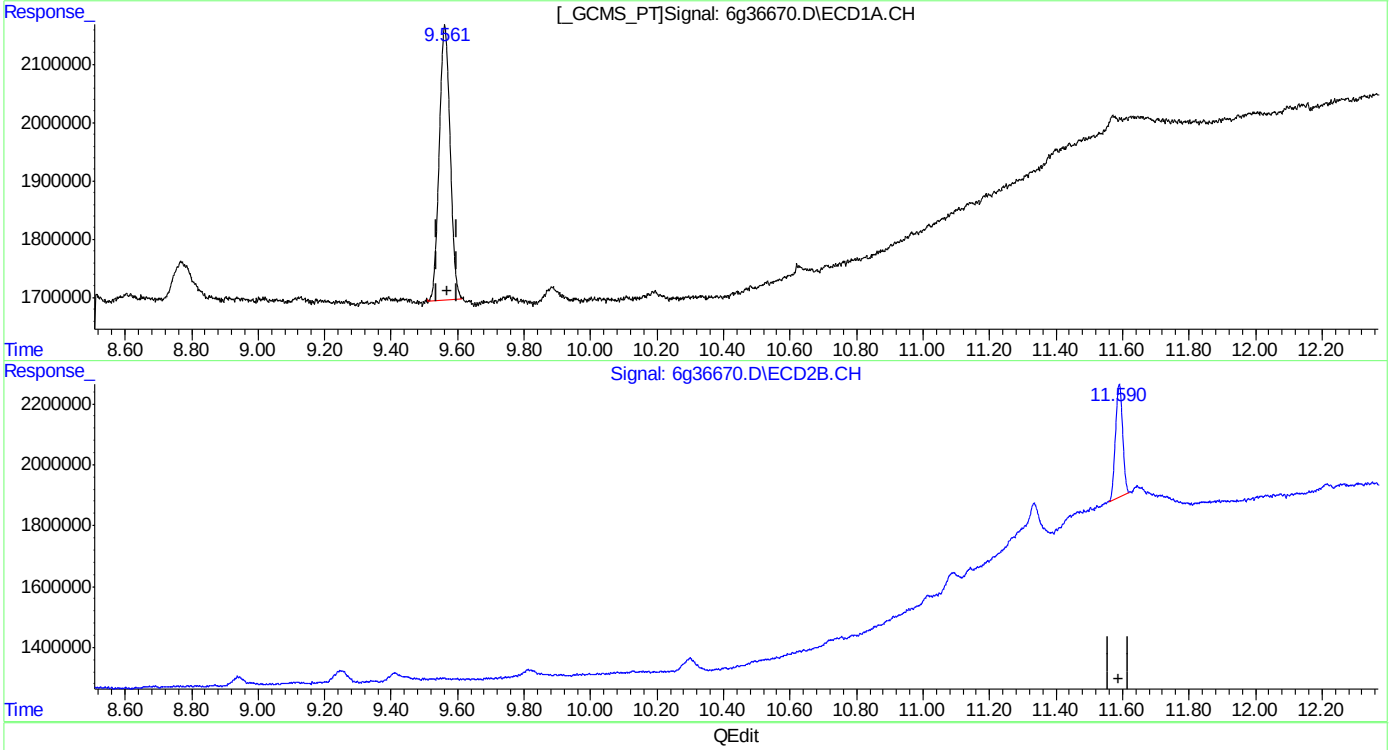
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 14:30:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36670.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 10:29 am
Operator : kristend
Sample : jc22206-8
Misc : op94861,g6g1048,960,,,10,5
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 14:29:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
9.562min 2.483PPB
response 10558108

(24) Decachlorobiphenyl #2 (SAB)
11.590min 3.928PPB m
response 5485004

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 14:30:20 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36625.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:58 pm
Operator : dharas
Sample : jc22206-8
Misc : op94861,g6g1047,960,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:55:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	0.988f	1.341	688.8E6	95159892	50.000	50.000
25) I	1-bromo-2...	0.988f	1.341	688.8E6	95159892	50.000	50.000
31) I	1-bromo-2...	0.988	1.341	688.8E6	95159892	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.718	2.279	68960605	29866307	5.279	15.506 #
Spiked Amount		40.000	Range	30 - 150	Recovery	= 13.20%#	38.77%
24) SAB	Decachlor...	9.562	11.584	43048630	26173605	3.358	11.302 #
Spiked Amount		40.000			Recovery	= 8.39%	28.25%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

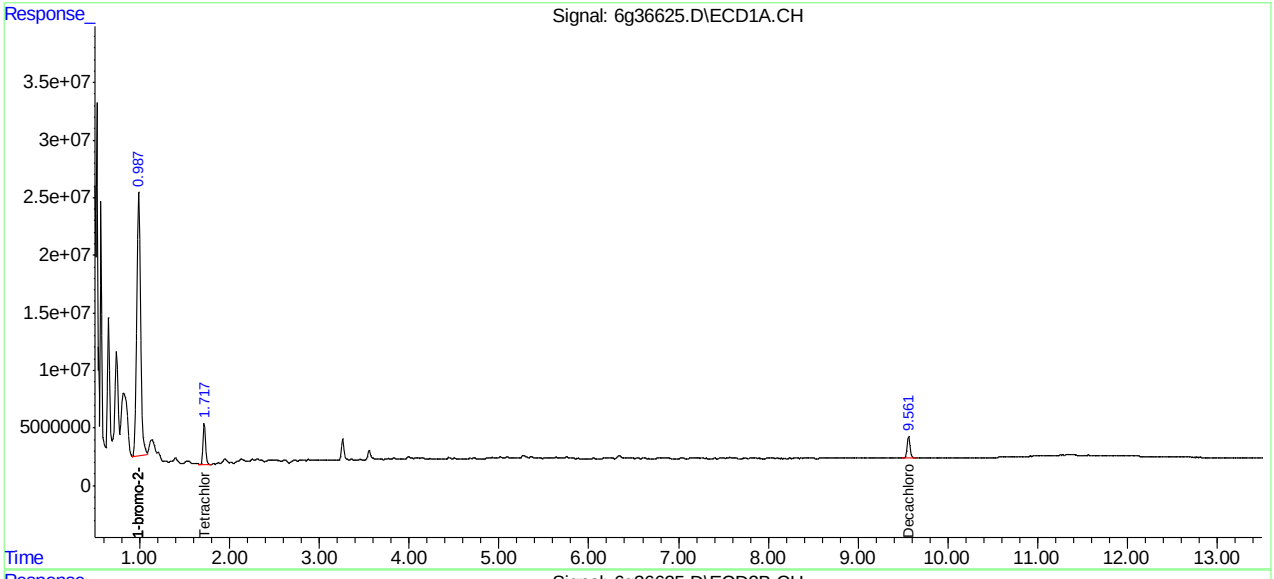
SGS ACCUTEST JC22206

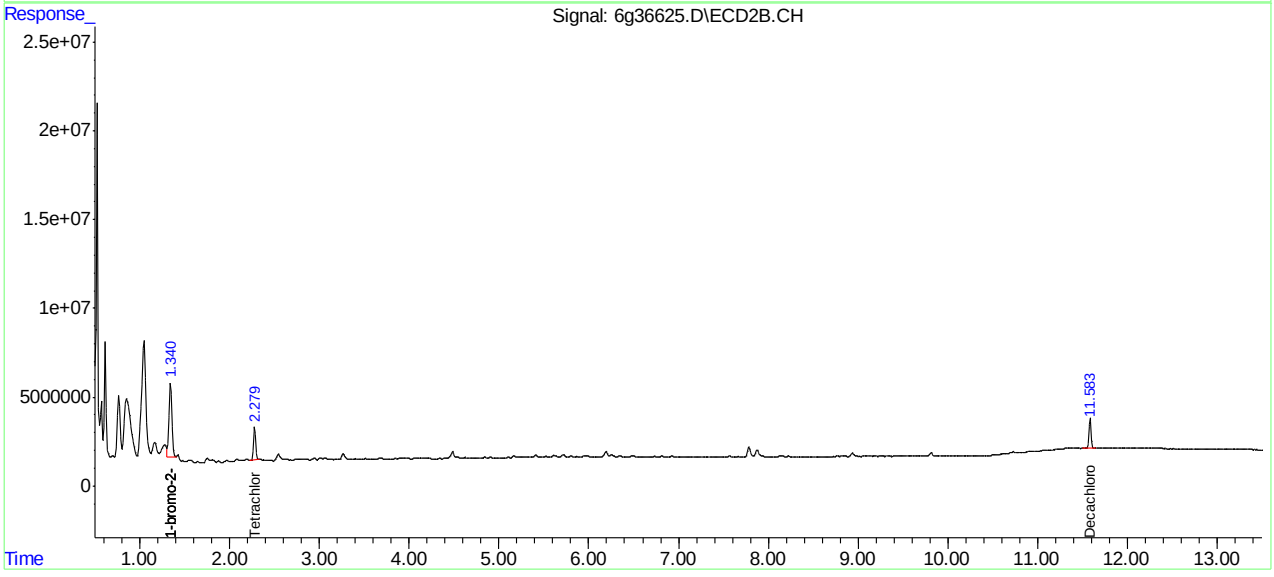
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36625.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 7:58 pm
Operator : dharas
Sample : jc22206-8
Misc : op94861,g6g1047,960,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:55:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36626.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 8:15 pm
Operator : dharas
Sample : jc22206-9
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:47:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.002	1.339	133.6E6	58330236	50.000	50.000
25) I	1-bromo-2...	1.002	1.339	133.6E6	58330236	50.000	50.000
31) I	1-bromo-2...	1.002	1.339	133.6E6	58330236	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.720	2.280	63539531	28666873	25.072	24.281
Spiked Amount		40.000	Range	30 - 150	Recovery	= 62.68%	60.70%
24) SAB	Decachlor...	9.562	11.585	40884989	23779177	16.441	16.751
Spiked Amount		40.000			Recovery	= 41.10%	41.88%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

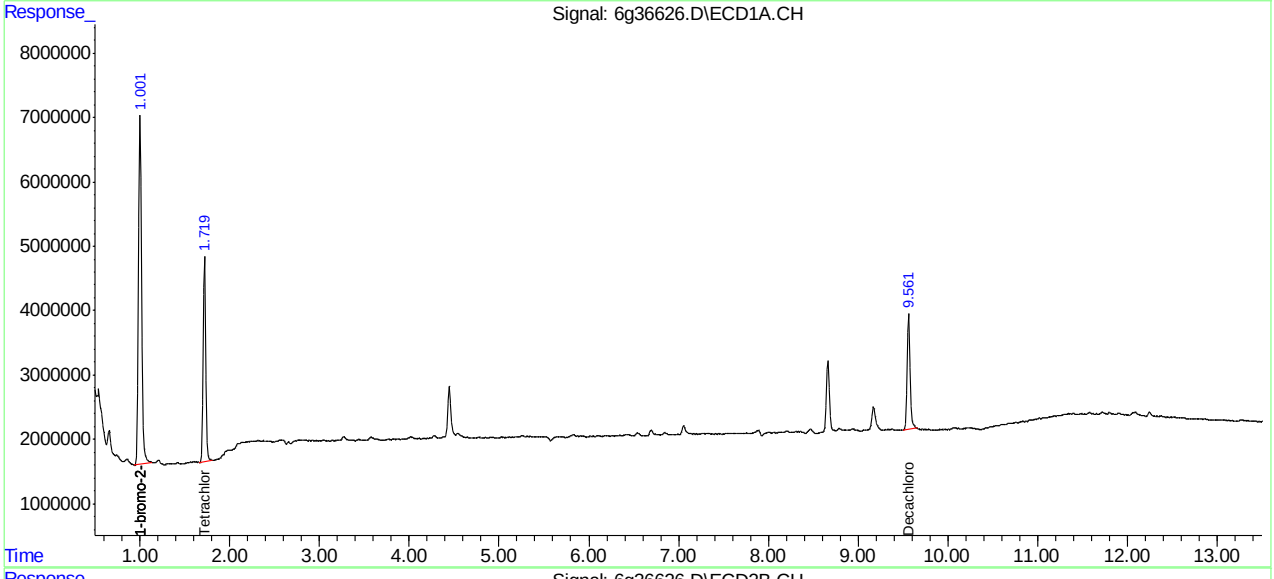
SGS ACCUTEST JC22206

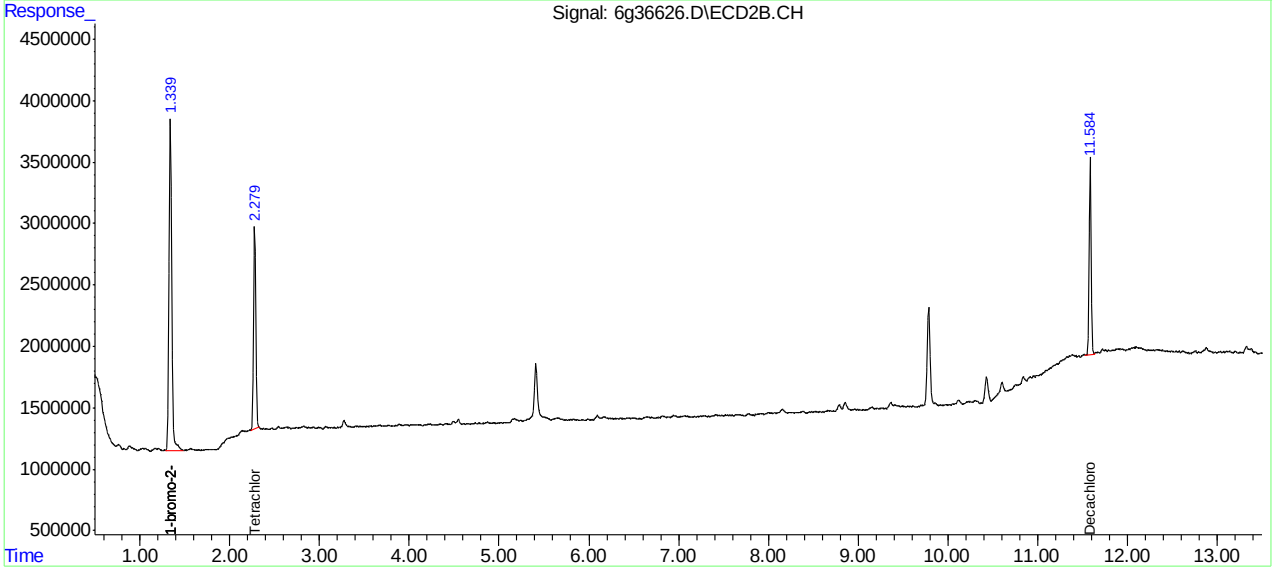
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36626.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 8:15 pm
Operator : dharas
Sample : jc22206-9
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:47:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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 JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36629.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 9:04 pm
Operator : dharas
Sample : jc22206-10
Misc : op94861,g6g1047,980,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:50:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.003	1.340	122.3E6	53979034	50.000	50.000
25) I 1-bromo-2...	1.003	1.340	122.3E6	53979034	50.000	50.000
31) I 1-bromo-2...	1.003	1.340	122.3E6	53979034	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.720	2.280	87578559	39076178	37.761	35.766
Spiked Amount	40.000	Range	30 - 150	Recovery	= 94.40%	89.42%
24) SAB Decachlor...	9.563	11.584	54104681	31778716	23.773	24.191
Spiked Amount	40.000			Recovery	= 59.43%	60.48%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

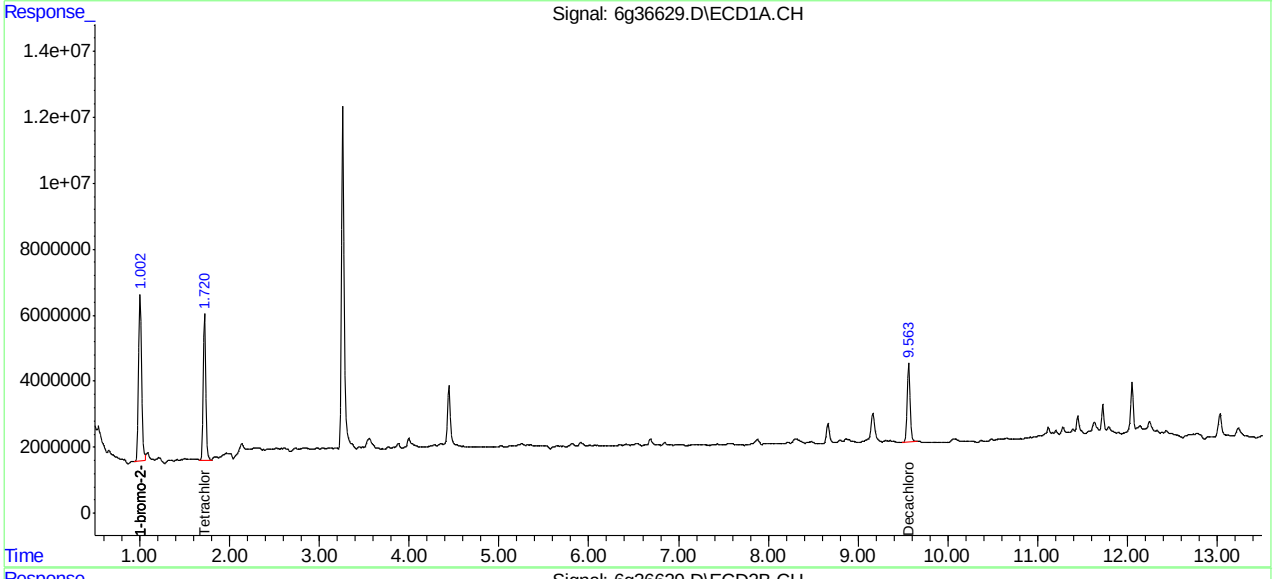
SGS ACCUTEST JC22206

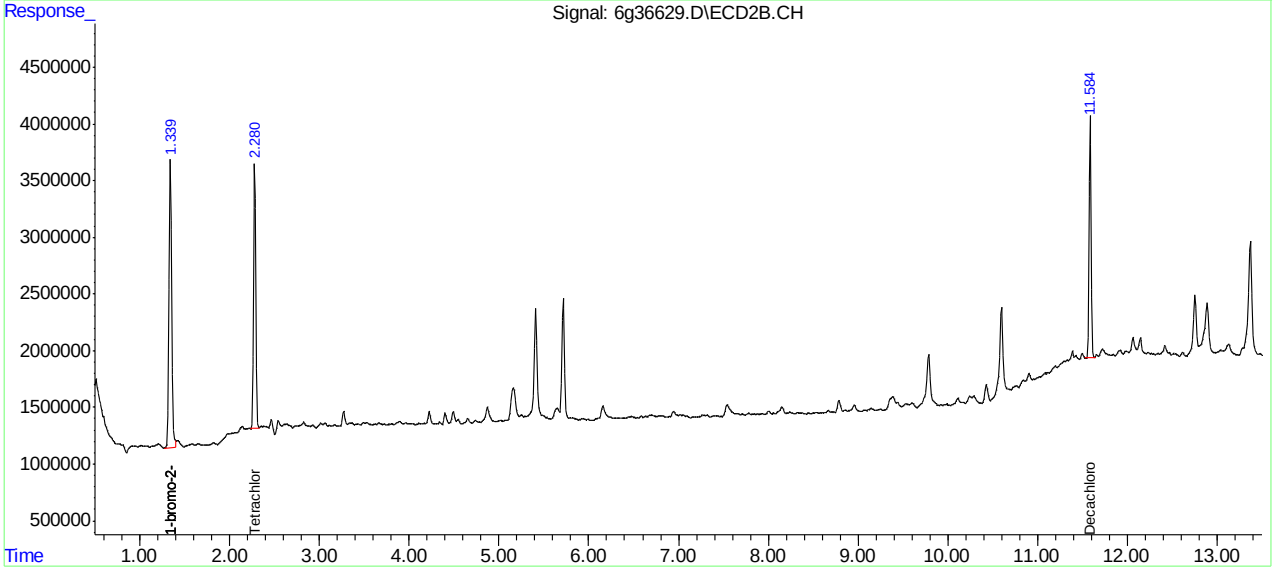
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36629.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 9:04 pm
Operator : dharas
Sample : jc22206-10
Misc : op94861,g6g1047,980,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:50:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 9:21 pm
Operator : dharas
Sample : jc22206-11
Misc : op94861,g6g1047,920,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.005	1.341	130.4E6	54917350	50.000	50.000
25) I	1-bromo-2...	1.005	1.341	130.4E6	54917350	50.000	50.000
31) I	1-bromo-2...	1.005	1.341	130.4E6	54917350	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.722	2.281	104.5E6	47160658	42.247	42.428
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 105.62%	106.07%
24) SAB	Decachlor...	9.568	11.585	66068463	39863203	27.216	29.827
	Spiked Amount	40.000			Recovery	= 68.04%	74.57%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

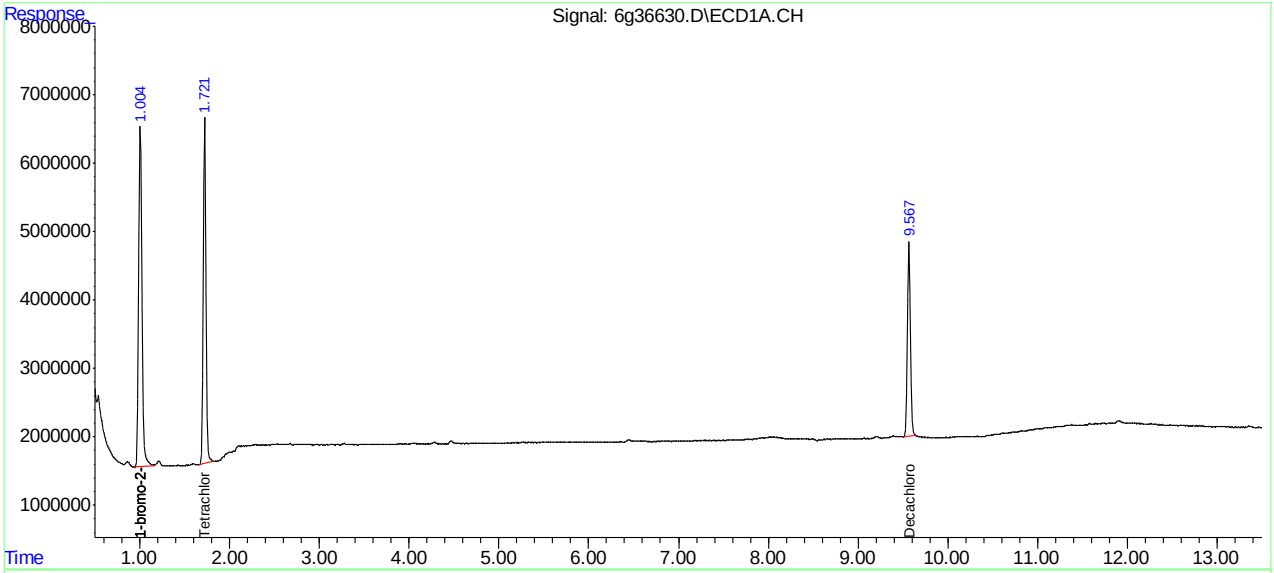
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

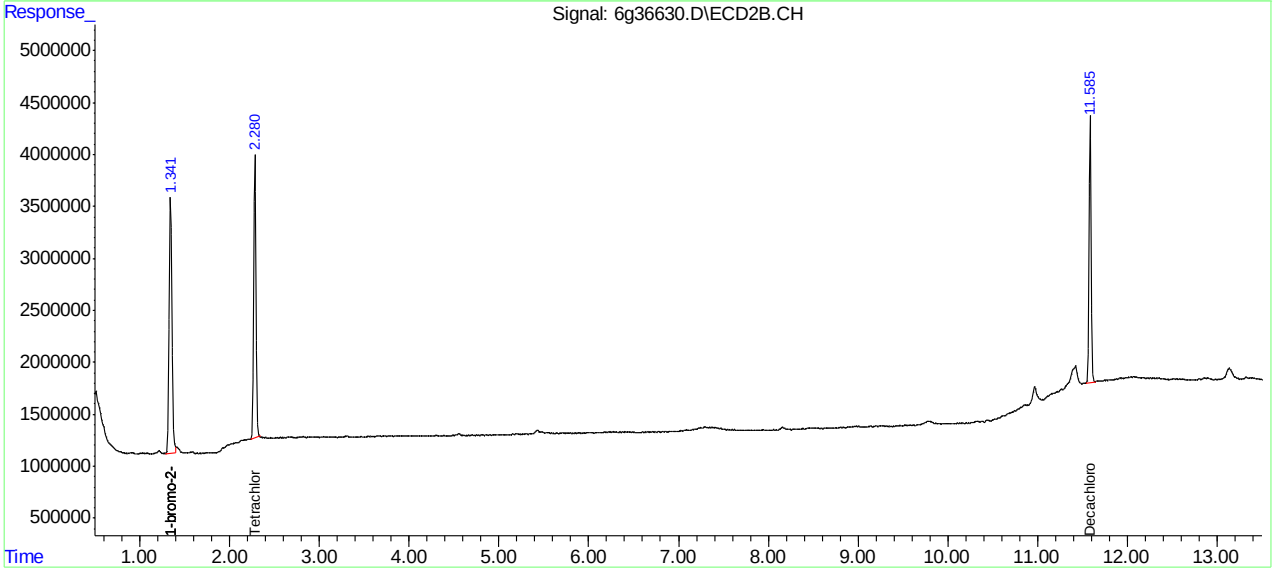
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 9:21 pm
Operator : dharas
Sample : jc22206-11
Misc : op94861,g6g1047,920,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:51:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36619.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:47 pm
Operator : dharas
Sample : op94861-mb1
Misc : op94861,g6g1047,1000,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:36:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.000	1.338	127.7E6	56244029	50.000	50.000
25) I 1-bromo-2...	1.000	1.338	127.7E6	56244029	50.000	50.000
31) I 1-bromo-2...	1.000	1.338	127.7E6	56244029	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	1.718	2.279	93367020	42217020	38.549	37.085
Spiked Amount	40.000	Range	30 - 150	Recovery	= 96.37%	92.71%
24) SAB Decachlor...	9.566	11.588	85552694	52609185	35.996	38.435
Spiked Amount	40.000			Recovery	= 89.99%	96.09%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

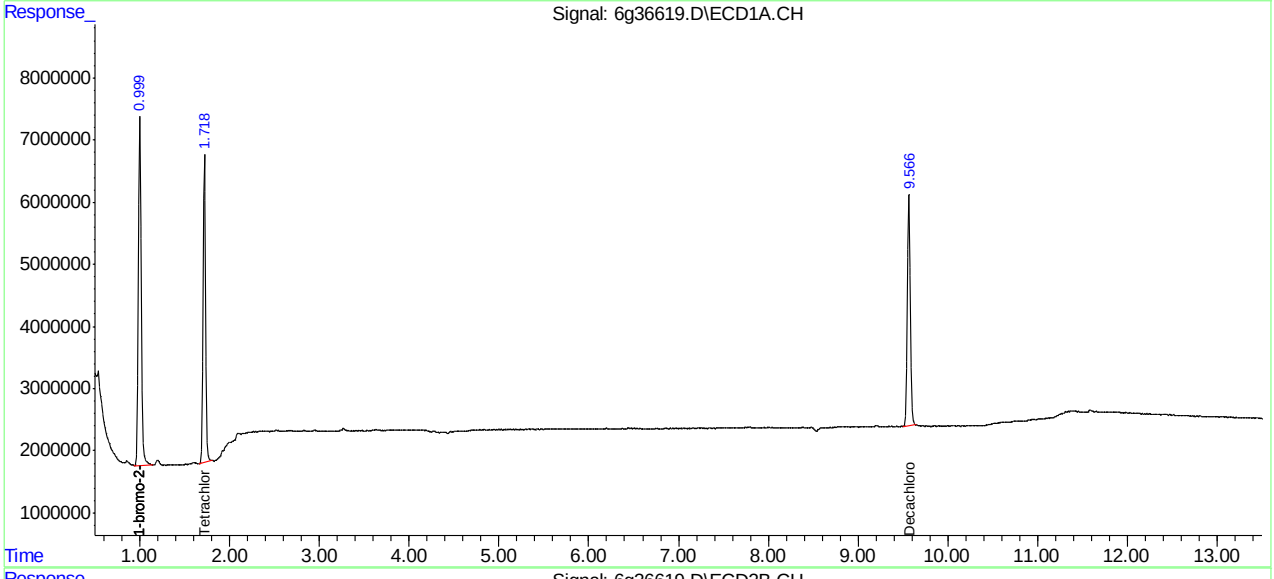
SGS ACCUTEST JC22206

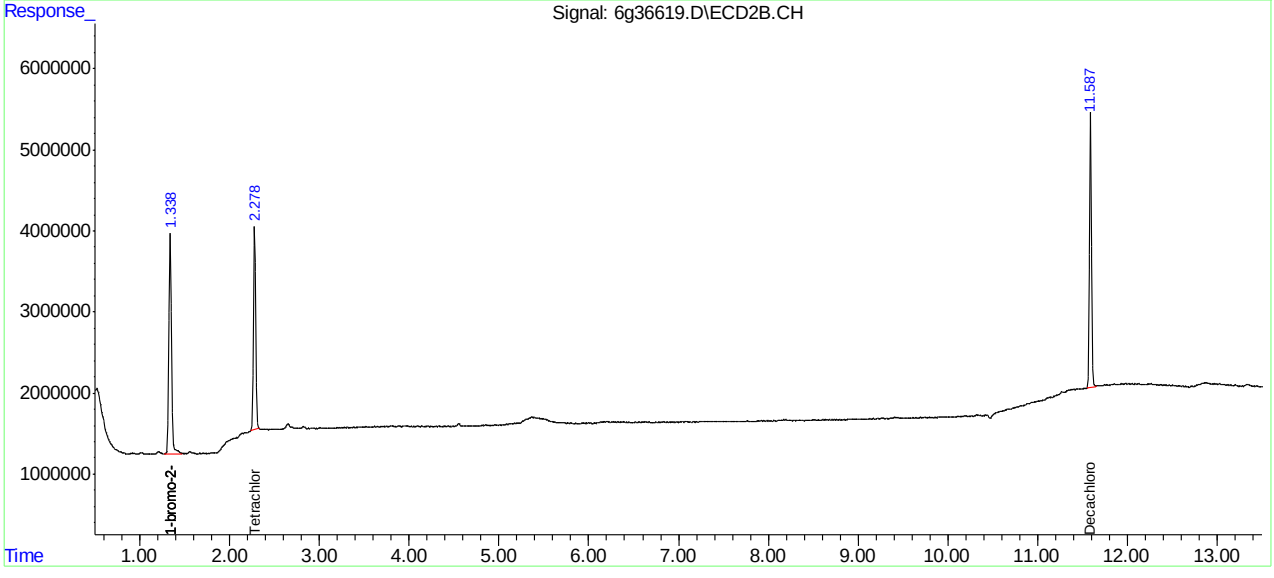
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36619.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:47 pm
Operator : dharas
Sample : op94861-mb1
Misc : op94861,g6g1047,1000,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:36:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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 JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36620.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 6:03 pm
Operator : dharas
Sample : op94861-bs1
Misc : op94861,g6g1047,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:38:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.001	1.339	126.5E6	53314577	50.000	50.000	
25) I	1-bromo-2...	1.001	1.339	126.5E6	53314577	50.000	50.000	
31) I	1-bromo-2...	1.001	1.339	126.5E6	53314577	50.000	50.000	
	System Monitoring Compounds							
2)	SAB Tetrachlo...	1.720	2.280	87578794	39568443	36.509	36.668	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 91.27%	91.67%	
24)	SAB Decachlor...	9.566	11.587	85818794	51534041	36.458	39.719	
	Spiked Amount	40.000			Recovery	= 91.14%	99.30%	
	Target Compounds							
3) A	alpha-BHC	2.242	2.989	67078284	29135884	21.251	22.355	
4) MA	gamma-BHC	2.559	3.438	63461725	28623087	21.612	23.447	
5) MA	Heptachlor	3.078	4.033	58559080	30184294	20.140	23.554	
6) B	beta-BHC	2.648	3.537	30889628	14725089	21.118	22.971	
7) B	delta-BHC	2.840	3.946	59724330	26406279	20.524	22.530	
8) MB	Aldrin	3.422	4.502	53995953	27679990	19.675	22.564	
9) B	Heptachlo...	4.154	5.372	56947720	31456051	21.508	25.744	
10) B	gamma-Chl...	4.326	5.676	54662224	29128282	19.709	23.570	
11) B	alpha-Chl...	4.503	5.916	54679769	28988729	20.427	23.181	
12) A	Endosulfan I	4.678	6.012	60792900	26854999	21.325	23.232	
13) B	4,4'-DDE	4.645	6.218	40120112	27151701	20.351	25.627	#
14) MA	Dieldrin	5.015	6.478	55562064	28246145	21.650	24.790	
15) MA	Endrin	5.348	7.014	53490837	27169052	22.799	26.058	
16) A	4,4'-DDD	5.520	7.247	40285535	21028208	21.582	23.861	
17) B	Endosulfa...	5.686	7.398	51710673	25880124	21.540	24.429	
18) MA	4,4'-DDT	5.955	7.818	37601895	20065132	20.756	24.675	
19) B	Endrin Al...	6.345	8.023	41794935	22193918	22.130	25.205	
20) B	Endosulfa...	7.070	8.536	43193916	22604860	21.197	23.619	
21) A	Methoxychlor	6.821	9.194	22711376	12591115	21.208	24.499	
23) B	Endrin Ke...	7.536	9.575	51939451	26337323	22.509	25.079	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

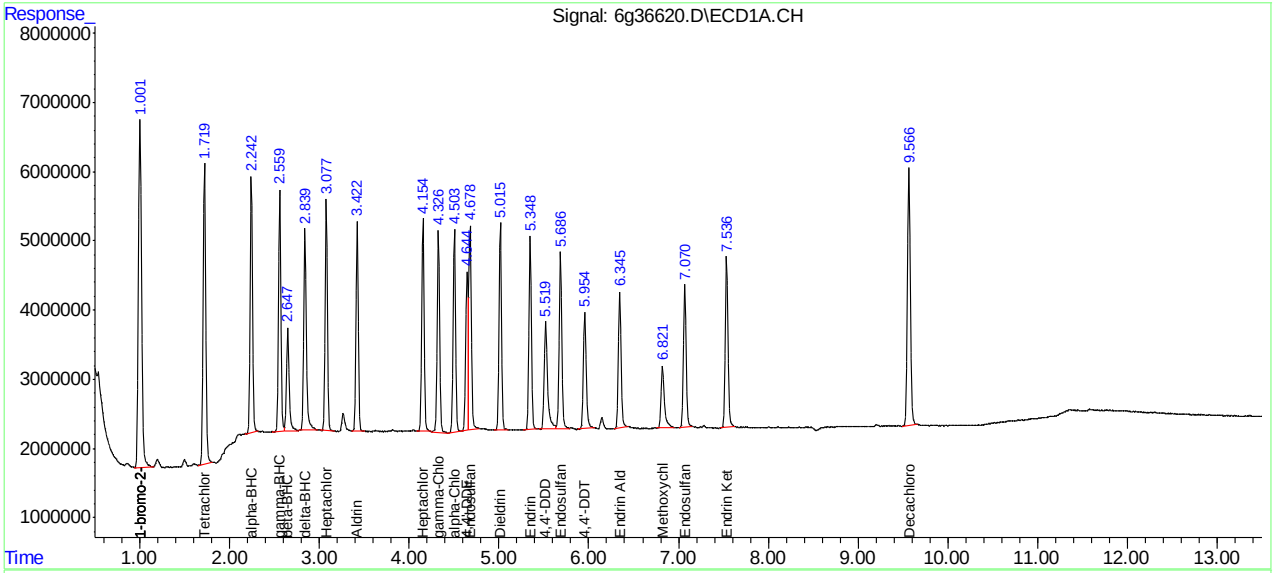
SGS ACCUTEST JC22206

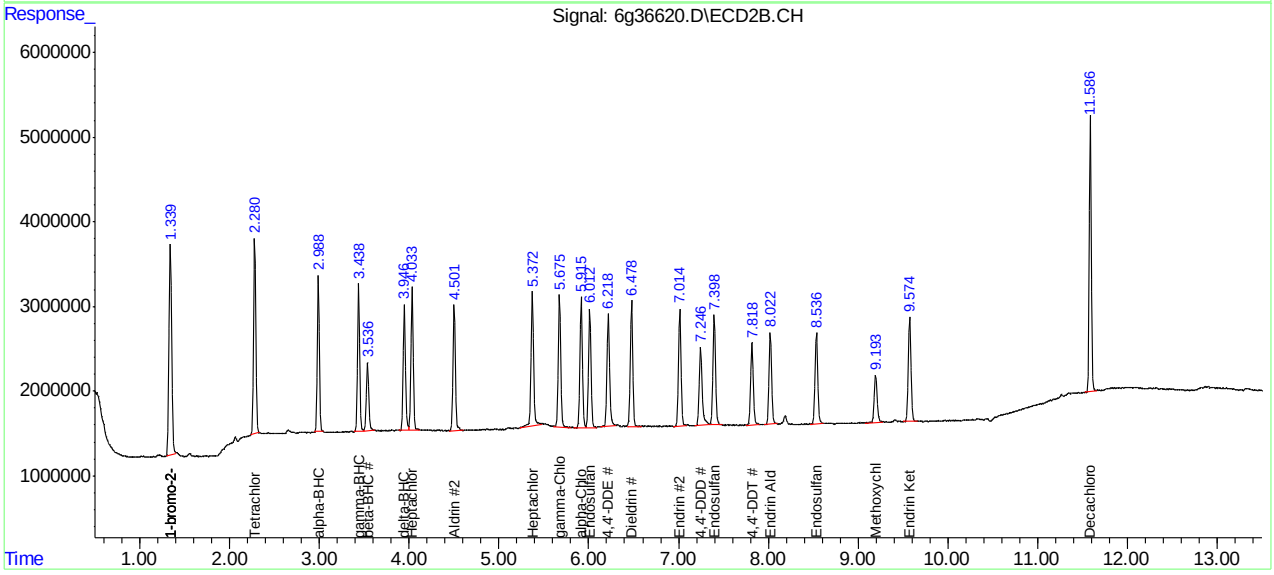
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36620.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 6:03 pm
Operator : dharas
Sample : op94861-bs1
Misc : op94861,g6g1047,1000,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:38:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36627.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 8:31 pm
Operator : dharas
Sample : op94861-ms
Misc : op94861,g6g1047,940,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:48:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.004	1.342	127.4E6	55103348	50.000	50.000
25) I	1-bromo-2...	1.004	1.342	127.4E6	55103348	50.000	50.000
31) I	1-bromo-2...	1.004	1.342	127.4E6	55103348	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.720	2.280	101.2E6	46518883	41.875	41.710
	Spiked Amount 40.000 Range 30 - 150 Recovery = 104.69% 104.28%						
24)	SAB Decachlor...	9.562	11.585	83951986	48346764	35.395	36.052
	Spiked Amount 40.000 Recovery = 88.49% 90.13%						
	Target Compounds						
3) A	alpha-BHC	2.243	2.989	77896008	34310175	24.491	25.470
4) MA	gamma-BHC	2.559	3.437	75074084	33146614	25.373	26.271
5) MA	Heptachlor	3.077	4.033	68443647	35690062	23.361	26.947
6) B	beta-BHC	2.648	3.536	30398633	17079693	20.625	25.779
7) B	delta-BHC	2.839	3.945	72127661	31530453	24.598	26.028
8) MB	Aldrin	3.421	4.501	64094874	33012116	23.178	26.037
9) B	Heptachlo...	4.153	5.372	64505288	36588199	24.178	28.972
10) B	gamma-Chl...	4.325	5.674	63119515	34231771	22.585	26.800
11) B	alpha-Chl...	4.503	5.916	67430499	32885261	24.999	25.443
12) A	Endosulfan I	4.678	6.011	65361983	30437969	22.754	25.476
13) B	4,4'-DDE	4.642	6.216	49757285	31193448	25.048	28.486
14) MA	Dieldrin	5.015	6.476	63998216	32257314	24.748	27.391
15) MA	Endrin	5.347	7.014	61517118	30236120	26.021	28.058
16) A	4,4'-DDD	5.513	7.242	43674481	24177470	23.220	26.544
17) B	Endosulfa...	5.684	7.396	59834848	30247216	24.735	27.625
18) MA	4,4'-DDT	5.951	7.815	44337291	23668451	24.288	28.161
19) B	Endrin Al...	6.342	8.021	40993642	22359788	21.541	24.569
20) B	Endosulfa...	7.067	8.534	57289600	27730185	27.901	28.034
21) A	Methoxychlor	6.814	9.191	27653992	15137172	25.628	28.496
23) B	Endrin Ke...	7.534	9.573	64953674	33223979	27.935	30.610

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

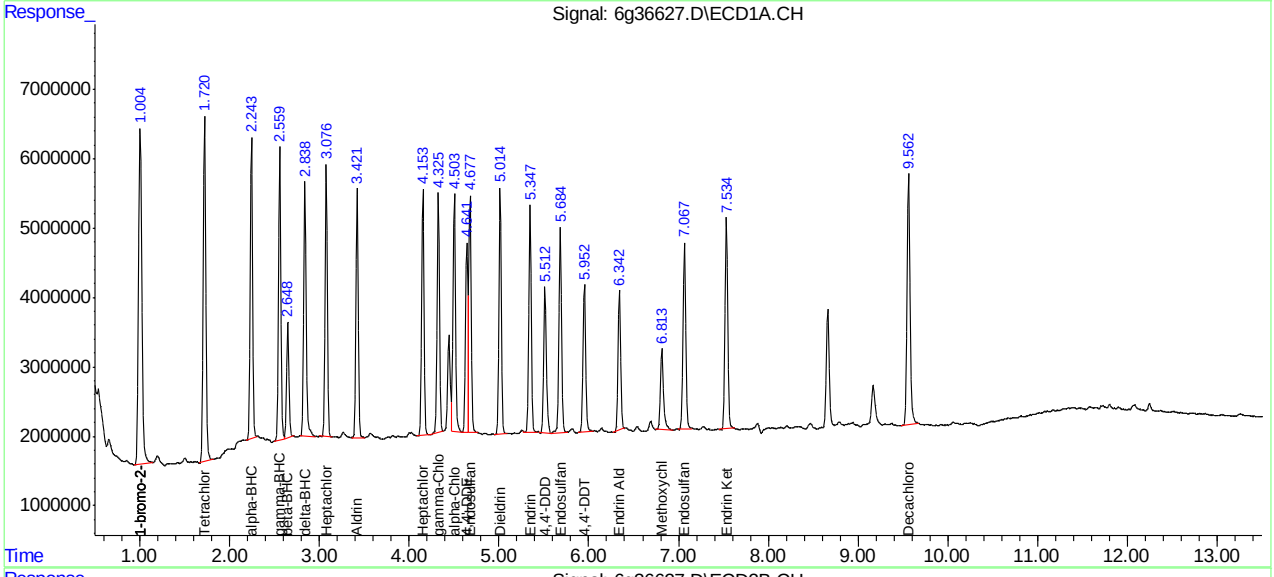
SGS ACCUTEST JC22206

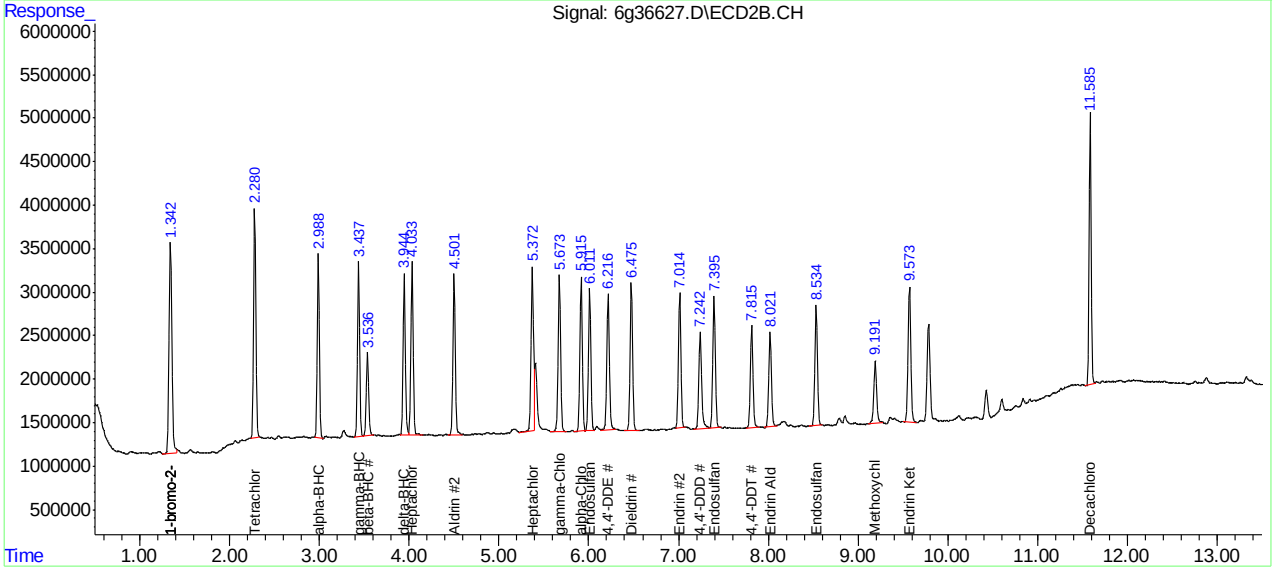
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36627.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 8:31 pm
Operator : dharas
Sample : op94861-ms
Misc : op94861,g6g1047,940,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:48:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1047\
Data File : 6g36628.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 8:48 pm
Operator : dharas
Sample : op94861-msd
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:49:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.002	1.339	128.0E6	55864277	50.000	50.000
25) I	1-bromo-2...	1.002	1.339	128.0E6	55864277	50.000	50.000
31) I	1-bromo-2...	1.002	1.339	128.0E6	55864277	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.720	2.279	85717500	38780750	35.312	34.298
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 88.28%	85.75%
24)	SAB Decachlor...	9.563	11.583	71156911	40418293	29.873	29.730
	Spiked Amount	40.000			Recovery	= 74.68%	74.33%
	Target Compounds						
3) A	alpha-BHC	2.242	2.988	66113832	29030008	20.698	21.257
4) MA	gamma-BHC	2.558	3.436	64322128	28165208	21.647	22.019
5) MA	Heptachlor	3.076	4.033	58744640	29836829	19.965	22.220
6) B	beta-BHC	2.648	3.536	26983433	14689996	18.230	21.870
7) B	delta-BHC	2.838	3.945	62280091	26834509	21.150	21.850
8) MB	Aldrin	3.421	4.501	54682610	28658648	19.690	22.295
9) B	Heptachlo...	4.153	5.371	56406846	31182988	21.053	24.356
10) B	gamma-Chl...	4.325	5.674	57289291	30186972	20.412	23.311
11) B	alpha-Chl...	4.502	5.914	60549219	28960787	22.352	22.102
12) A	Endosulfan I	4.678	6.011	57566104	26331295	19.955	21.739
13) B	4,4'-DDE	4.642	6.217	43101977	27375703	21.605	24.659
14) MA	Dieldrin	5.014	6.475	55415880	27981216	21.338	23.437
15) MA	Endrin	5.346	7.013	53948310	26711188	22.723	24.450
16) A	4,4'-DDD	5.513	7.243	37565084	20521379	19.887	22.223
17) B	Endosulfa...	5.683	7.396	51924116	26209361	21.374	23.611
18) MA	4,4'-DDT	5.951	7.816	38343034	20667001	20.915	24.255
19) B	Endrin Al...	6.342	8.020	37102301	20608320	19.414	22.336
20) B	Endosulfa...	7.067	8.533	49418107	24498691	23.965	24.430
21) A	Methoxychlor	6.815	9.191	23713932	13376132	21.883	24.838
23) B	Endrin Ke...	7.534	9.574	56556345	29047752	24.220	26.398

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

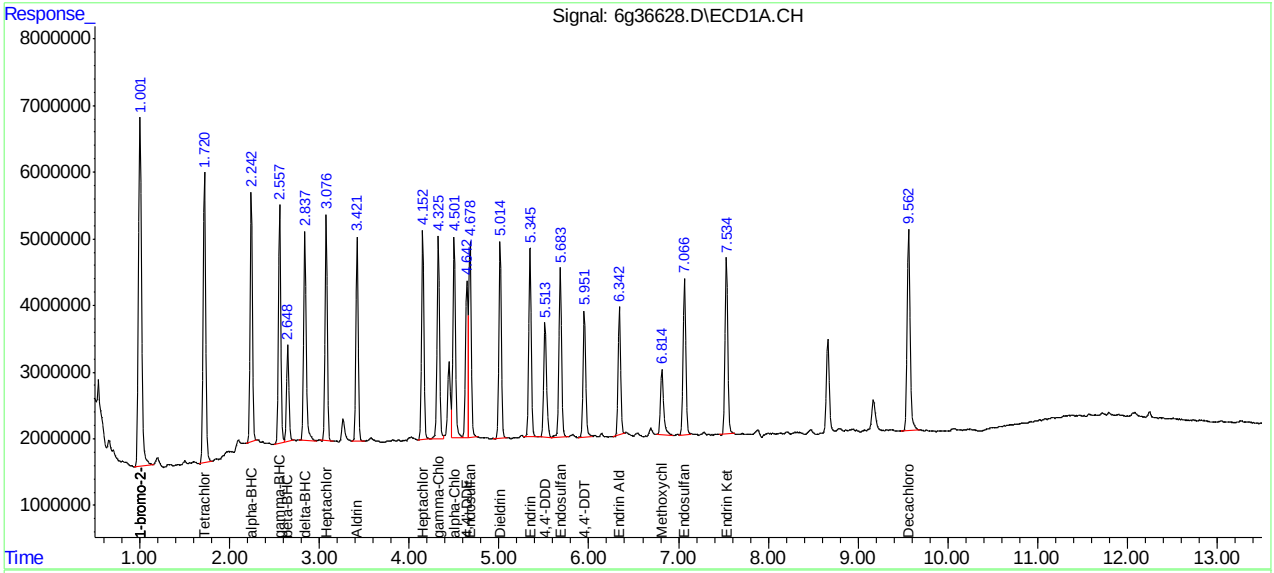
SGS ACCUTEST JC22206

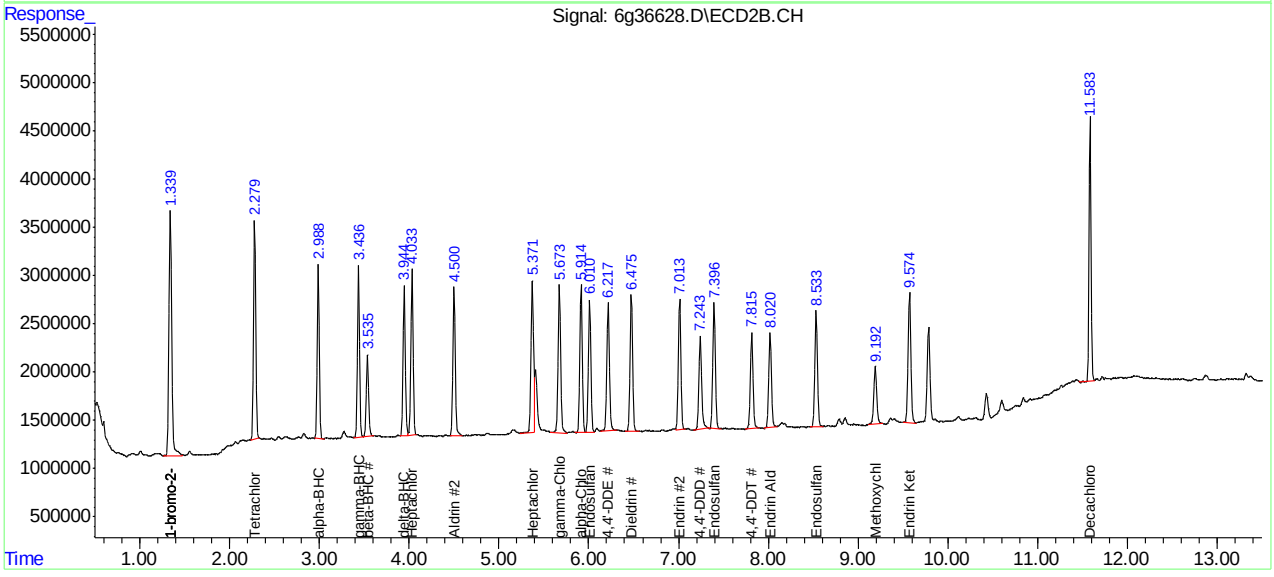
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36628.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 8:48 pm
Operator : dharas
Sample : op94861-msd
Misc : op94861,g6g1047,930,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:49:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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
06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:21 pm
Operator : dharas
Sample : ddt
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 14:07:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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...	1.010	1.344	133.6E6	53211503	50.000	50.000
25) I	1-bromo-2...	1.010	1.344	133.6E6	53211503	50.000	50.000
31) I	1-bromo-2...	1.010	1.344	133.6E6	53211503	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.732	2.289	47792175	20545613	18.858	19.076
Spiked Amount		40.000	Range	30 - 150	Recovery	= 47.15%	47.69%
24) SAB	Decachlor...	9.595	11.619	44393052	24765752	17.851	19.125
Spiked Amount		40.000			Recovery	= 44.63%	47.81%
	Target Compounds						
13) B	4,4'-DDE	4.666	6.242	1219518	542492	0.586	0.513m
15) MA	Endrin	5.377	7.042	116.9E6	52876025	47.181	50.812
16) A	4,4'-DDD	5.535	7.269	2612432	1434360	1.325	1.631
18) MA	4,4'-DDT	5.979	7.844	216.1E6	102.7E6	112.907	126.528
19) B	Endrin Al...	6.374	8.050	1352257	618541	0.678	0.704
23) B	Endrin Ke...	7.565	9.603	5068920	2227285	2.079	2.125

SemiQuant Compounds - Not Calibrated on this Instrument

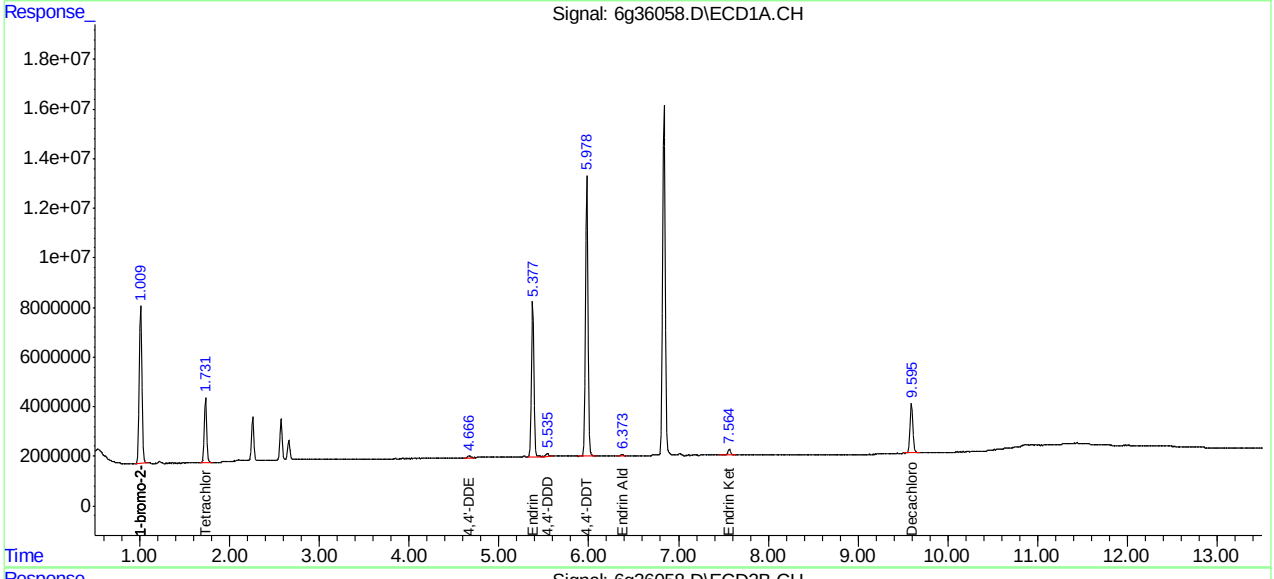
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

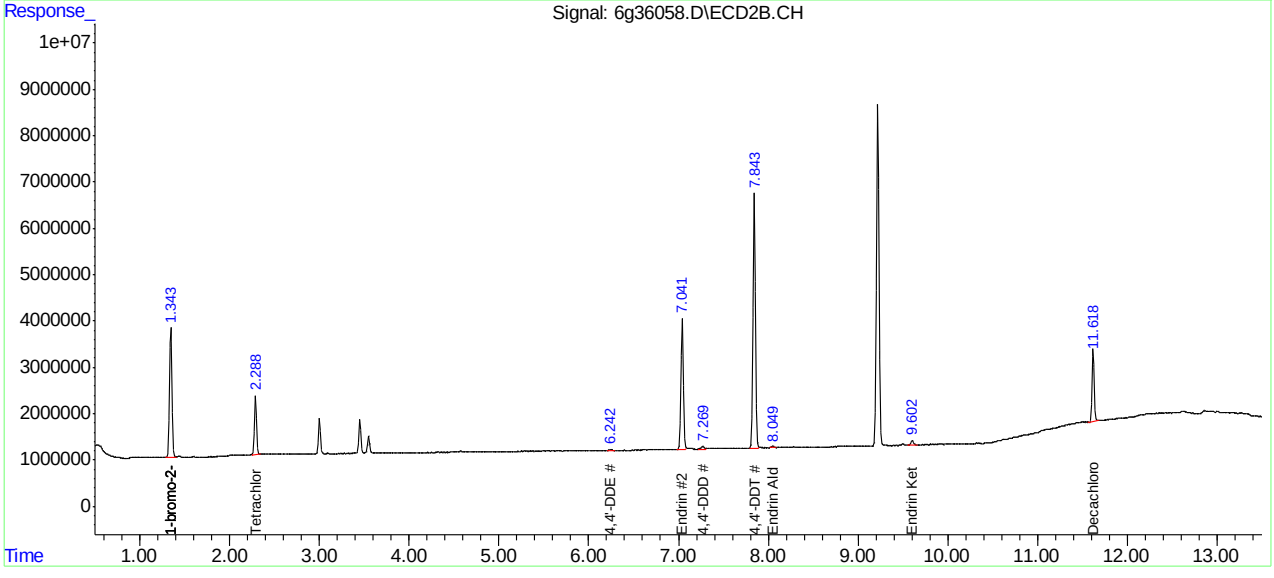
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:21 pm
Operator : dharas
Sample : ddt
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 14:07:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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 JC22206

Manual Integration Approval Summary

Sample Number:	G6G1034-DDT	**Method:**	SW846 8081B
Lab FileID:	6G36058.D	**Analyst approved:**	06/13/16 14:08 Rebecca Krug
Injection Time:	06/10/16 16:21	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

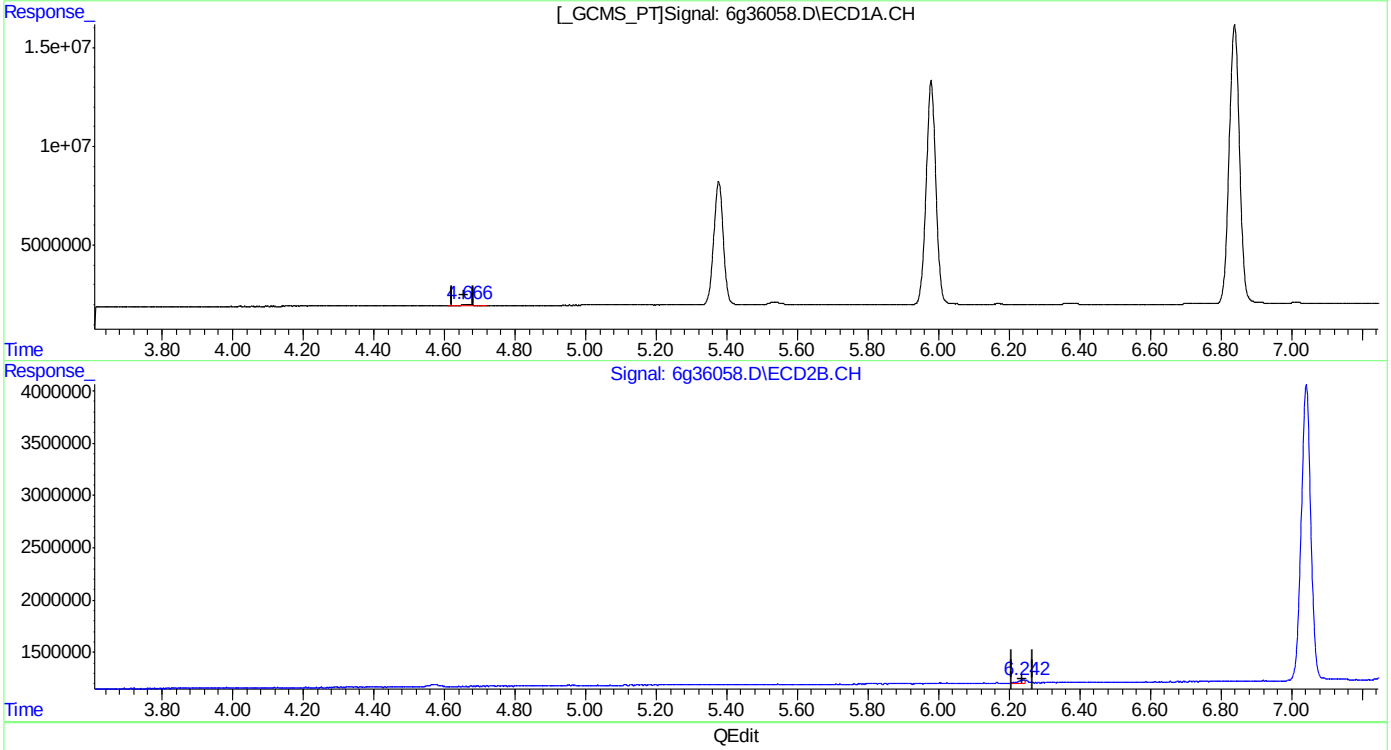
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	2	6.24	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:21 pm
Operator : dharas
Sample : ddt
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 14:06:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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)
4.666min 0.586PPB
response 1219518

(13) 4,4'-DDE #2 (B)
6.242min 0.359PPB
response 379695

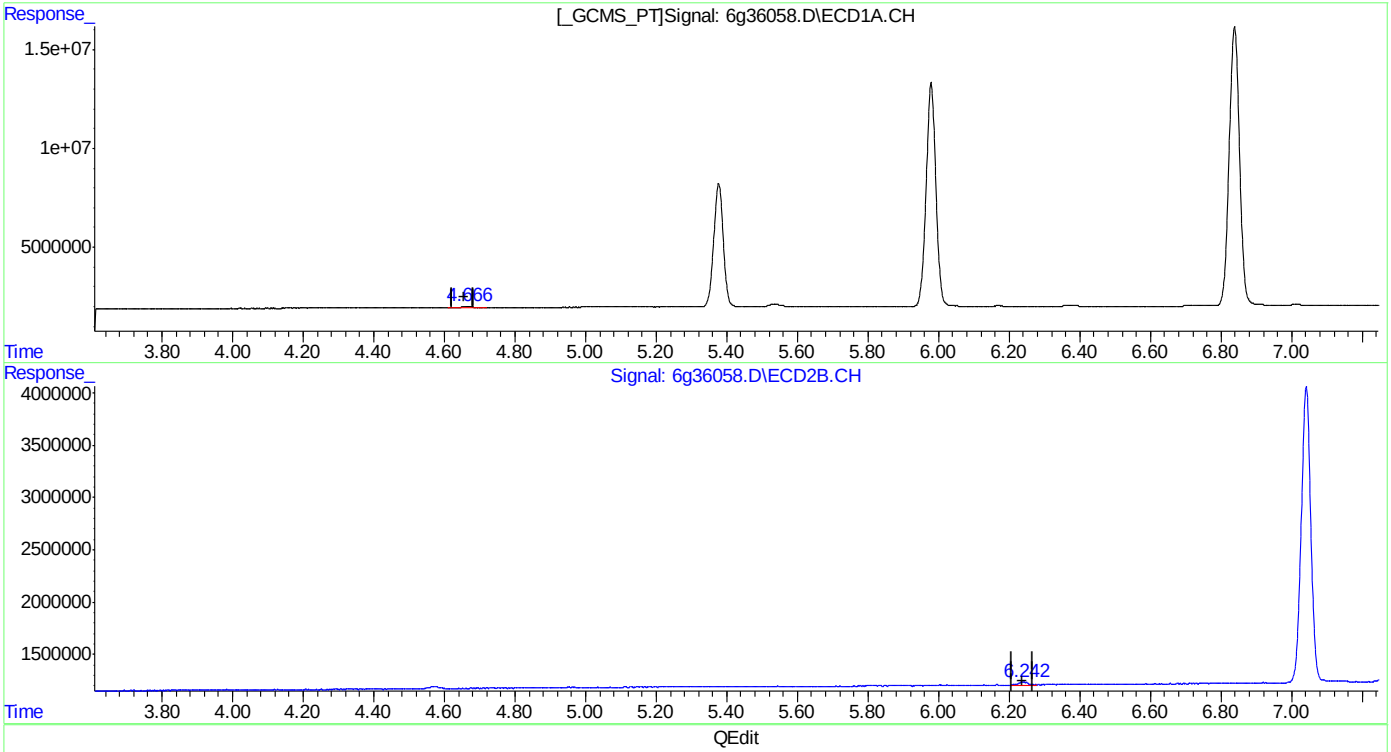
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 14:07:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:21 pm
Operator : dharas
Sample : ddt
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 14:06:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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)
4.666min 0.586PPB
response 1219518

(13) 4,4'-DDE #2 (B)
6.242min 0.513PPB m
response 542492

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 14:07:13 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/28/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:33:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.003	1.337	117.4E6	50677498	50.000	50.000
25) I	1-bromo-2...	1.003	1.337	117.4E6	50677498	50.000	50.000
31) I	1-bromo-2...	1.003	1.337	117.4E6	50677498	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.723	2.278	39733952	18540072	17.841	18.075
Spiked Amount		40.000	Range	30 - 150	Recovery	= 44.60%	45.19%
24) SAB	Decachlor...	9.567	11.591	40055980	23645303	18.329	19.172
Spiked Amount		40.000			Recovery	= 45.82%	47.93%
	Target Compounds						
13) B	4,4'-DDE	4.646	6.215	1132115	639961	0.619m	0.635m
15) MA	Endrin	5.355	7.016	100.3E6	49641022	46.058	50.089
16) A	4,4'-DDD	5.520	7.252	998417	843569	0.576m	1.007m#
18) MA	4,4'-DDT	5.958	7.817	174.3E6	93062768	103.635	120.398
19) B	Endrin Al...	6.354	8.018	988789	754878	0.564m	0.902m#
23) B	Endrin Ke...	7.537	9.572	3628851	1824626	1.694m	1.828m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

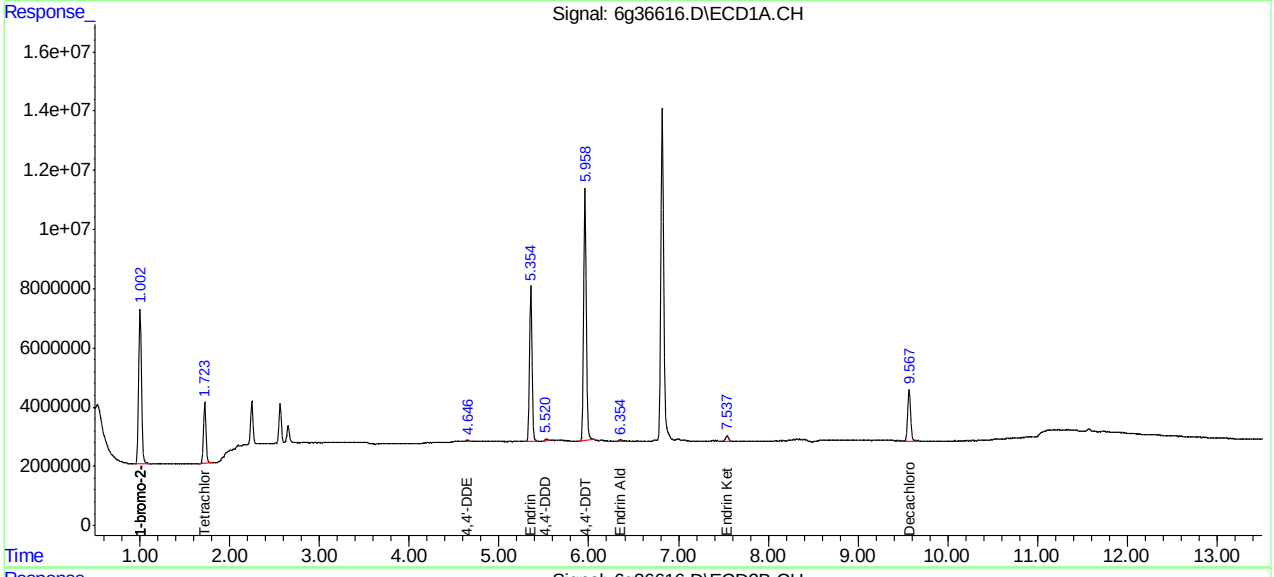
11.5.2 11

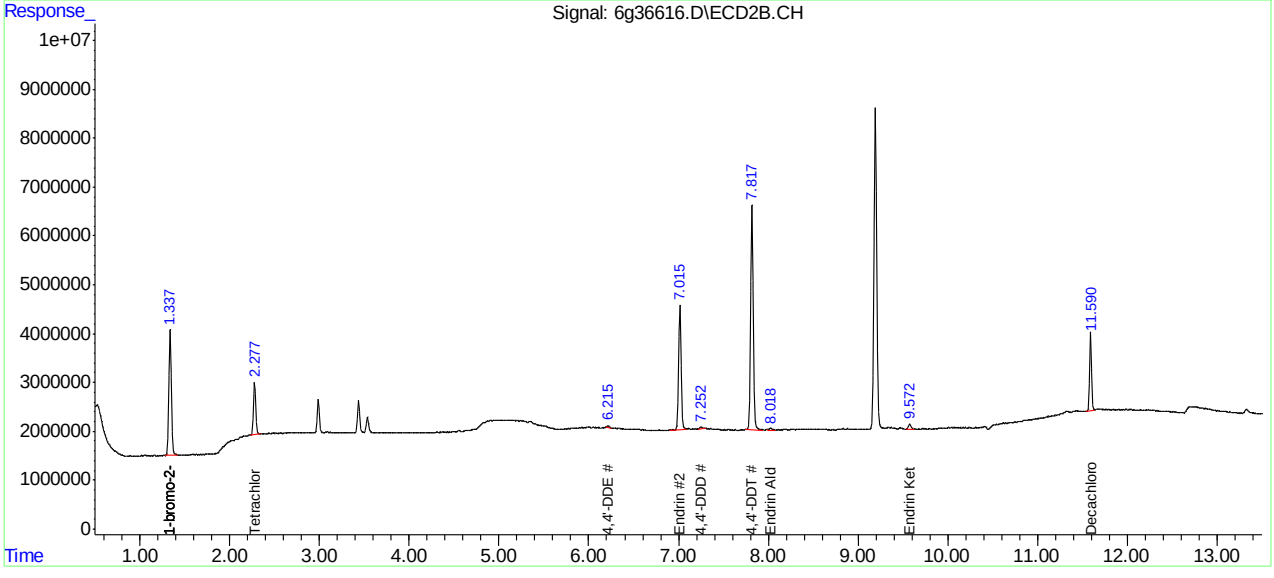
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:33:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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:	G6G1047-DDT	**Method:**	SW846 8081B
Lab FileID:	6G36616.D	**Analyst approved:**	06/28/16 09:00 Kristen Drake
Injection Time:	06/27/16 16:58	**Supervisor approved:**	06/28/16 11:26 Gwendolyn Burns

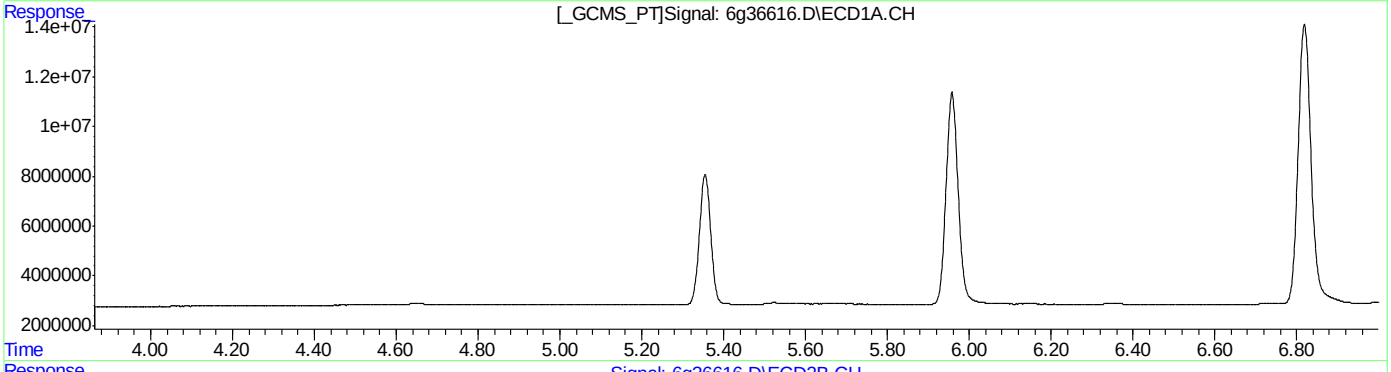
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.65	Poor instrument integration
4,4'-DDD	72-54-8	1	5.52	Poor instrument integration
4,4'-DDE	72-55-9	2	6.22	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.35	Poor instrument integration
4,4'-DDD	72-54-8	2	7.25	Poor instrument integration
Endrin ketone	53494-70-5	1	7.54	Poor instrument integration
Endrin aldehyde	7421-93-4	2	8.02	Poor instrument integration
Endrin ketone	53494-70-5	2	9.57	Poor instrument integration

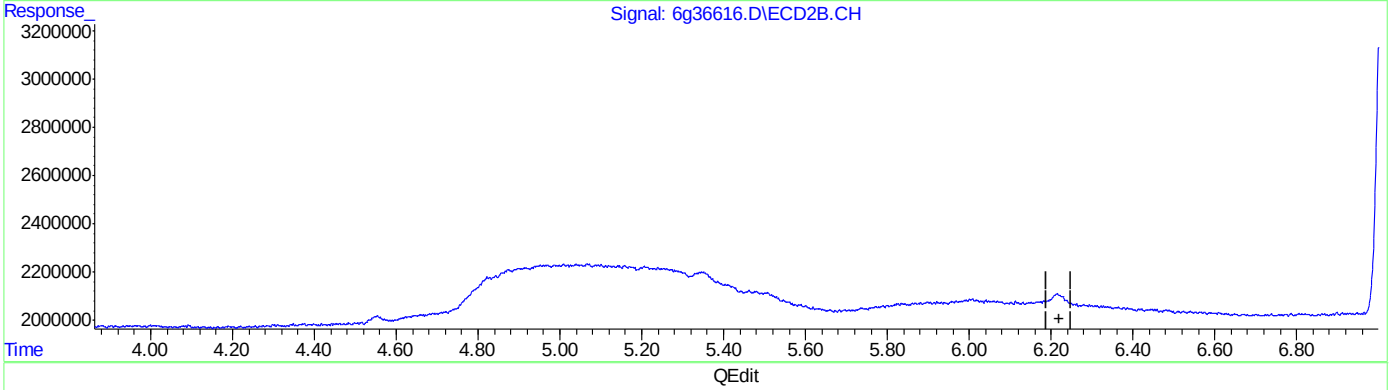
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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

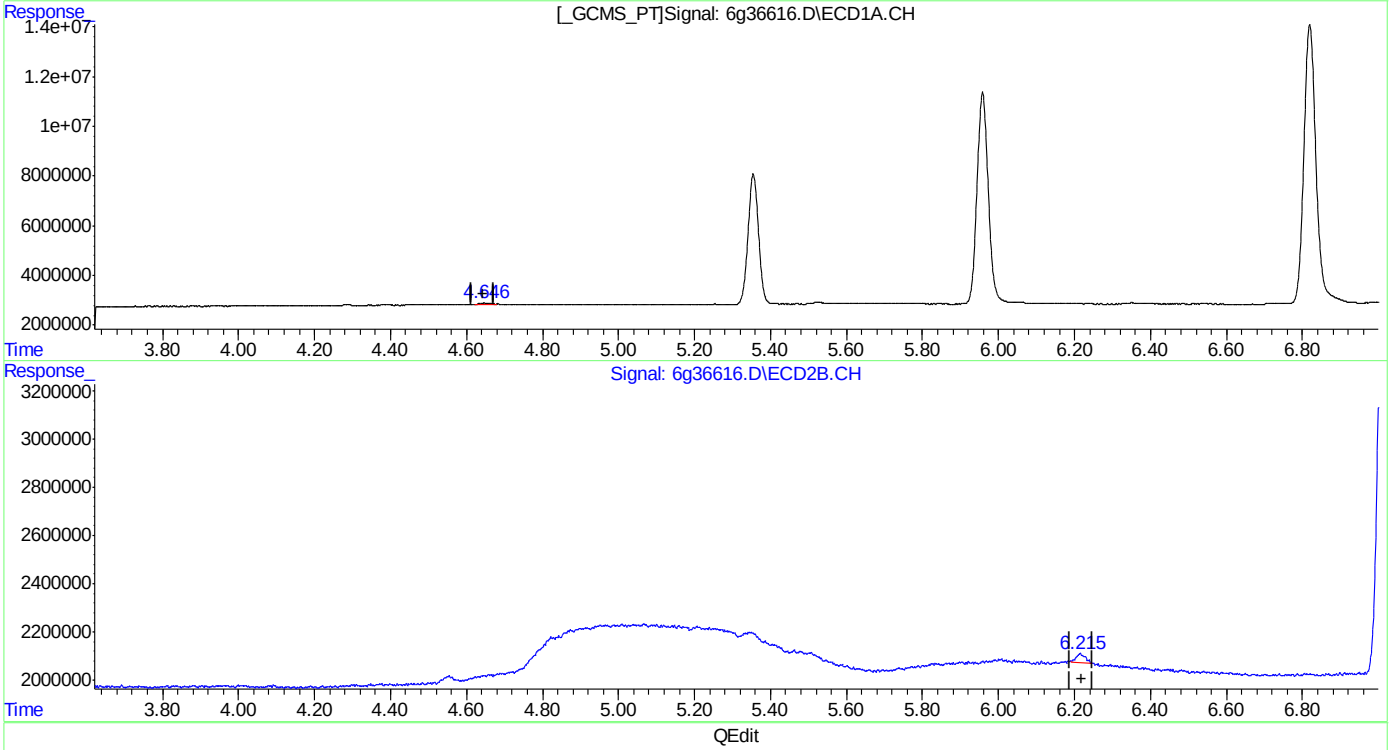
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
4.646min 0.619PPB m
response 1132115

(13) 4,4'-DDE #2 (B)
6.215min 0.635PPB m
response 639961

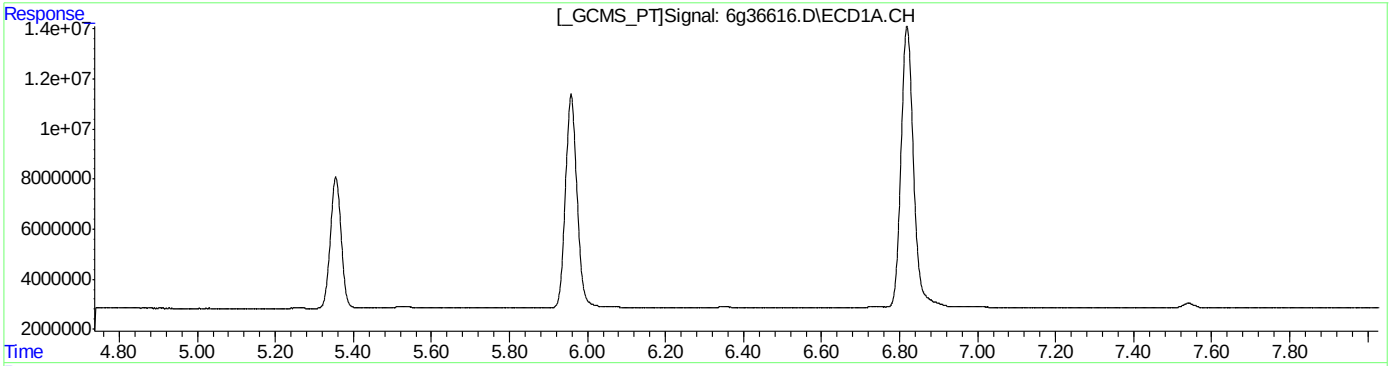
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:32:03 2016

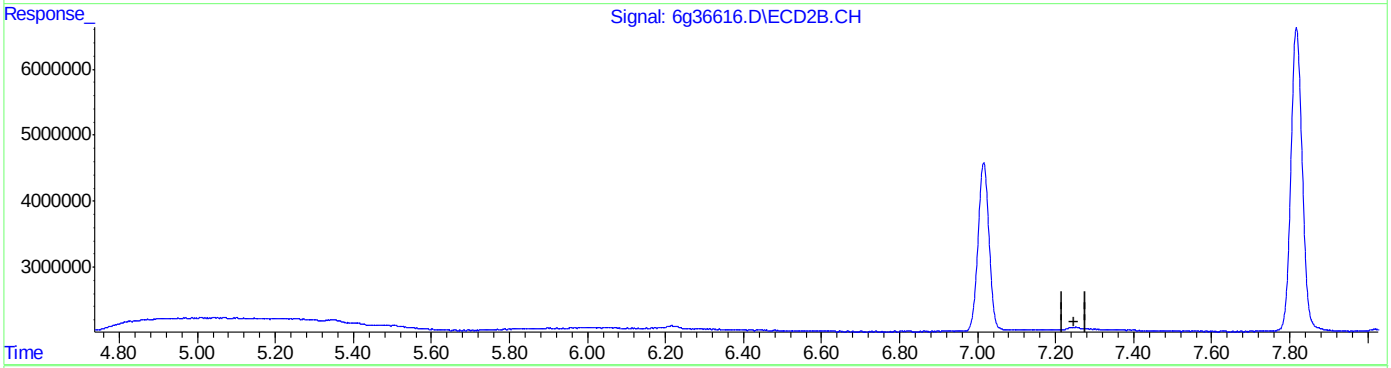
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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

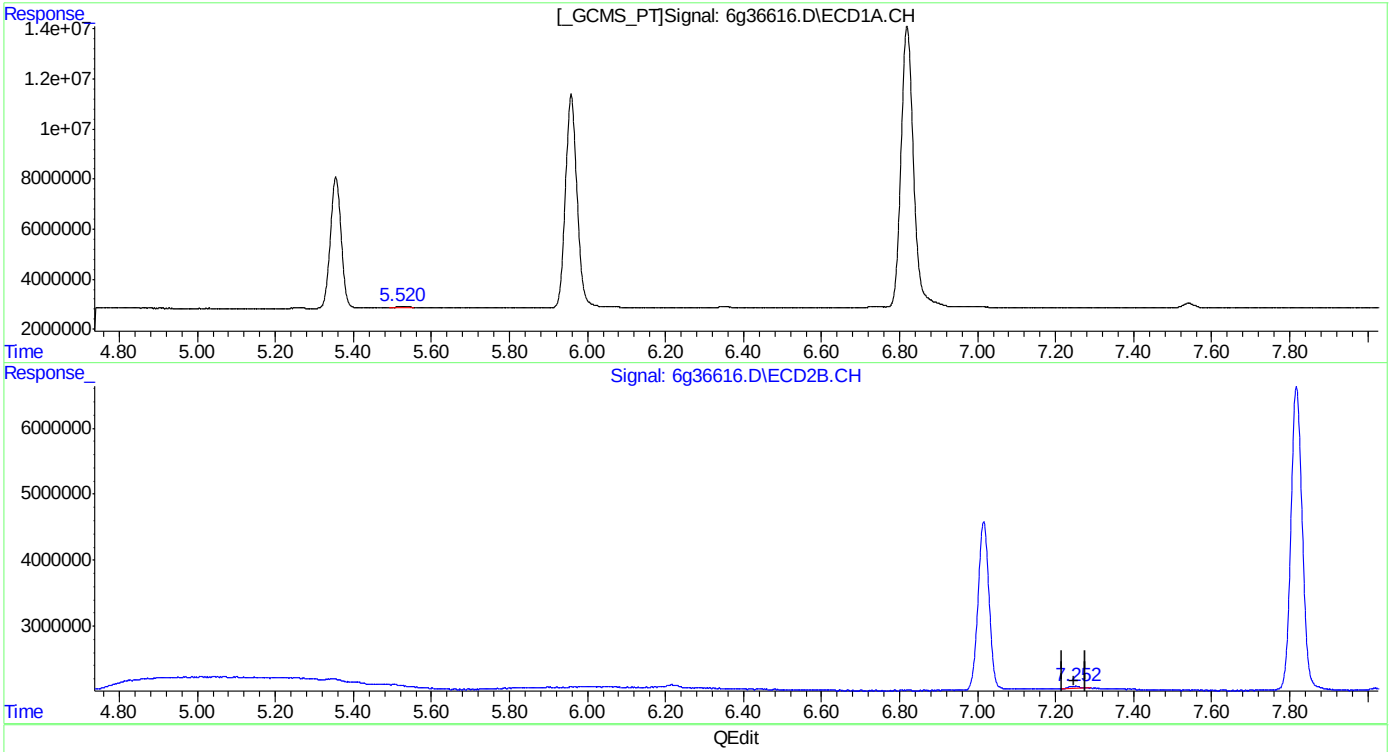
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
5.520min 0.576PPB m
response 998417

(16) 4,4'-DDD #2 (A)
7.252min 1.007PPB m
response 843569

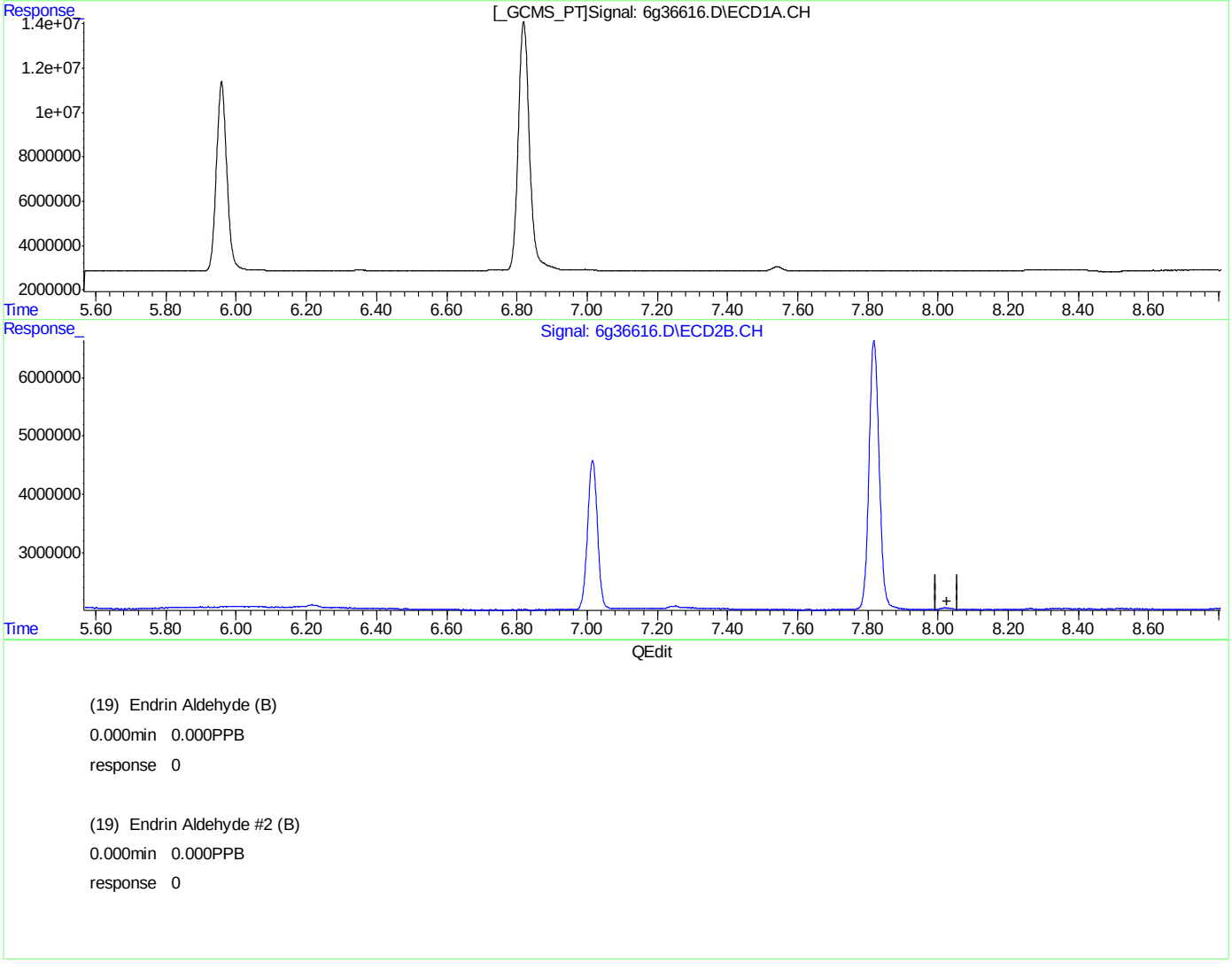
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:32:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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



(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000PPB
response 0

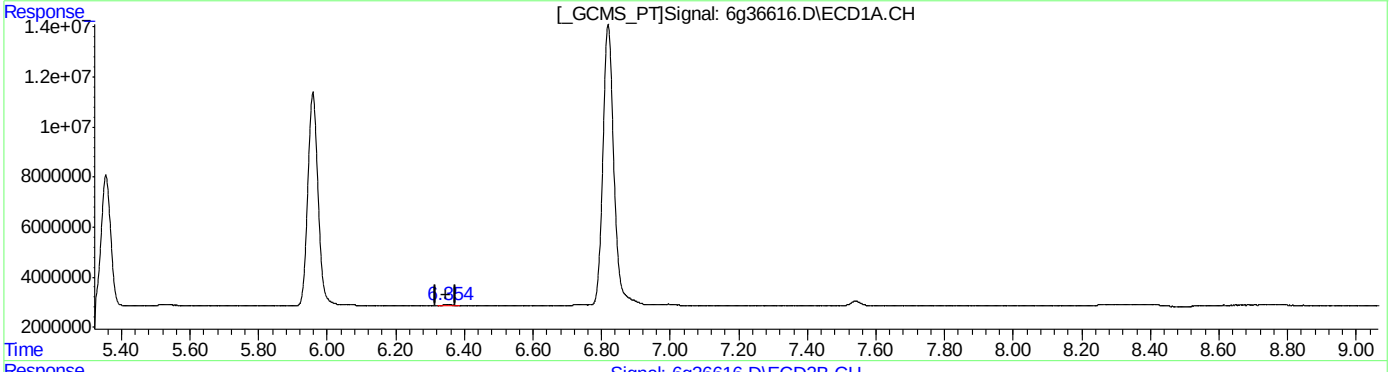
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:32:42 2016

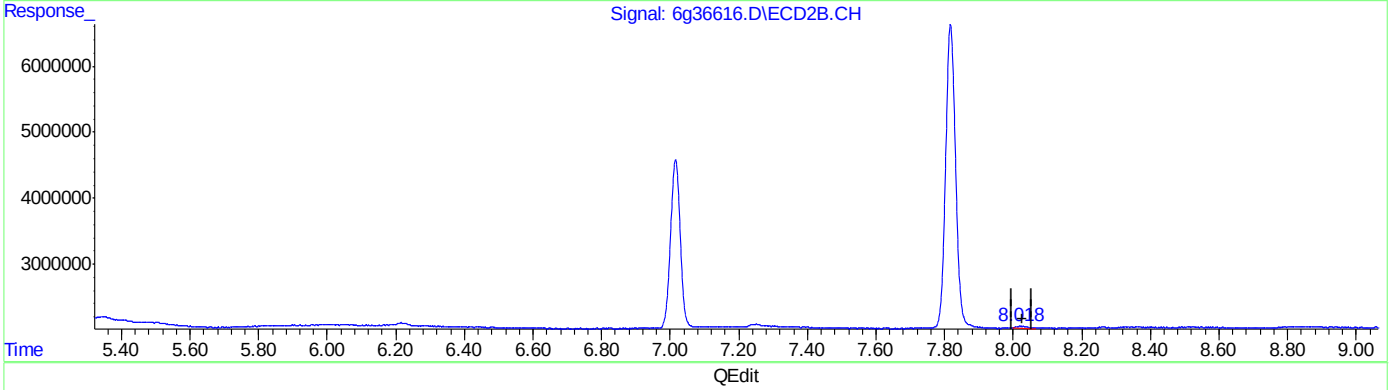
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
6.354min 0.564PPB m
response 988789

(19) Endrin Aldehyde #2 (B)
8.018min 0.902PPB m
response 754878

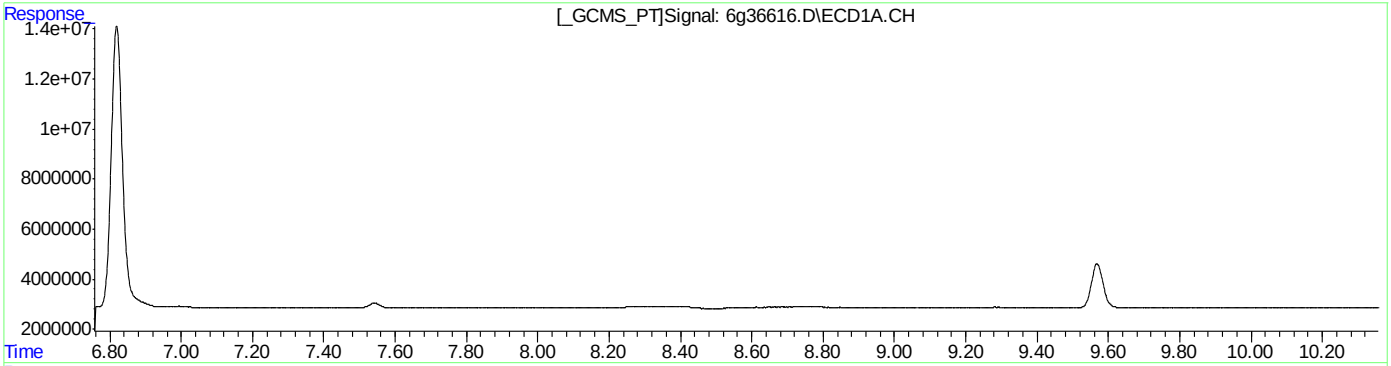
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:33:09 2016

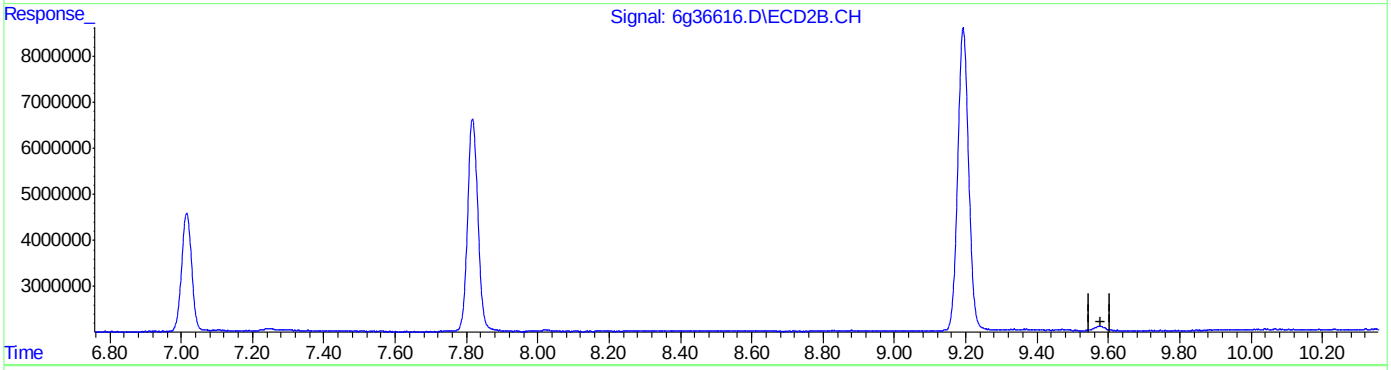
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
0.000min 0.000PPB
response 0

(23) Endrin Ketone #2 (B)
0.000min 0.000PPB
response 0

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:33:20 2016

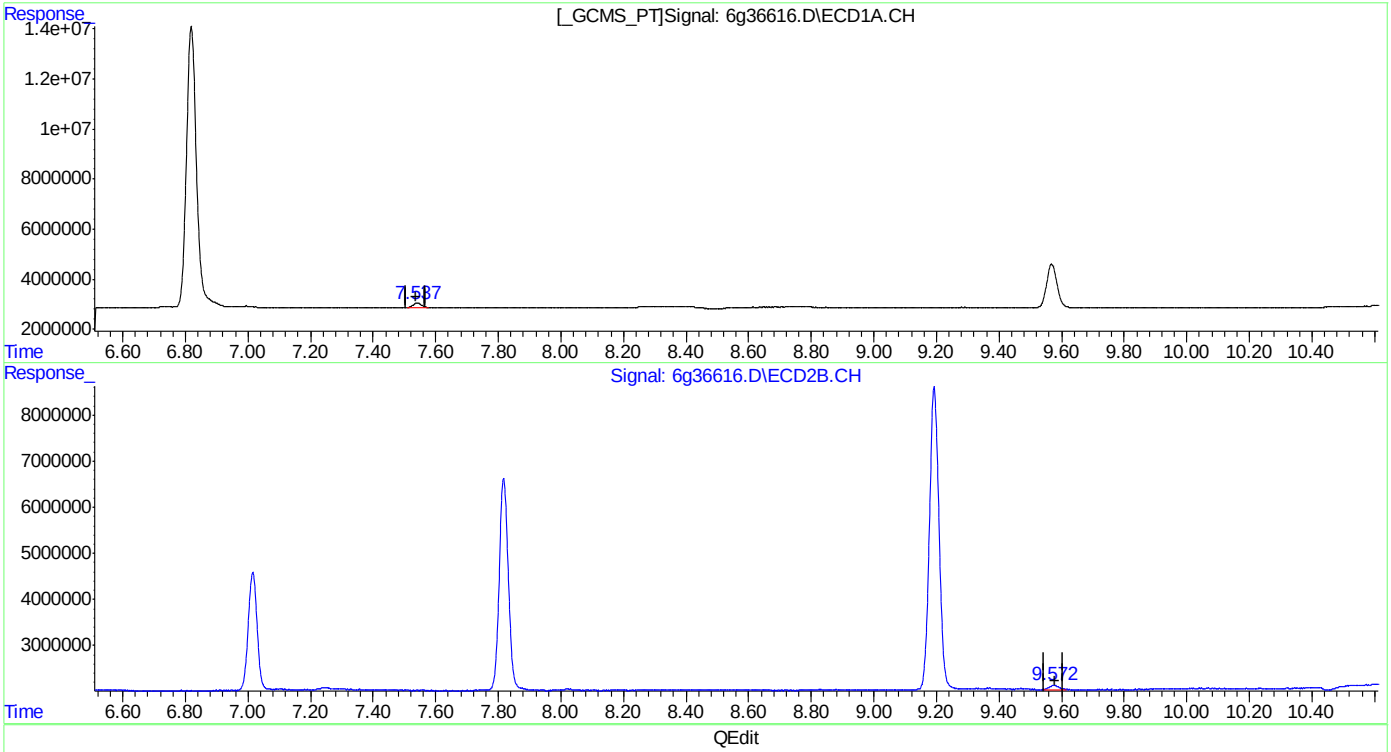
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36616.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 4:58 pm
Operator : dharas
Sample : ddt
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:31:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
7.537min 1.694PPB m
response 3628851

(23) Endrin Ketone #2 (B)
9.572min 1.828PPB m
response 1824626

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:33:42 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/28/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:05:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.003	1.341	131.3E6	59293752	50.000	50.000
25) I	1-bromo-2...	1.003	1.341	131.3E6	59293752	50.000	50.000
31) I	1-bromo-2...	1.003	1.341	131.3E6	59293752	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.719	2.280	47697715	23099203	19.150	19.247
Spiked Amount		40.000	Range	30 - 150	Recovery	= 47.87%	48.12%
24) SAB	Decachlor...	9.559	11.589	45116128	26611151	18.459	18.442
Spiked Amount		40.000			Recovery	= 46.15%	46.11%
	Target Compounds						
13) B	4,4'-DDE	4.634	6.212	607800	345262	0.297m	0.293m
15) MA	Endrin	5.342	7.011	113.6E6	59973460	46.638	51.721
16) A	4,4'-DDD	5.512	7.241	501732	686658	0.259m	0.701m#
18) MA	4,4'-DDT	5.946	7.813	206.9E6	112.4E6	109.989	124.244
19) B	Endrin Al...	6.339	8.020	854896	684873	0.436m	0.699 #
23) B	Endrin Ke...	7.527	9.570	4562792	2747457	1.904m	2.352

SemiQuant Compounds - Not Calibrated on this Instrument

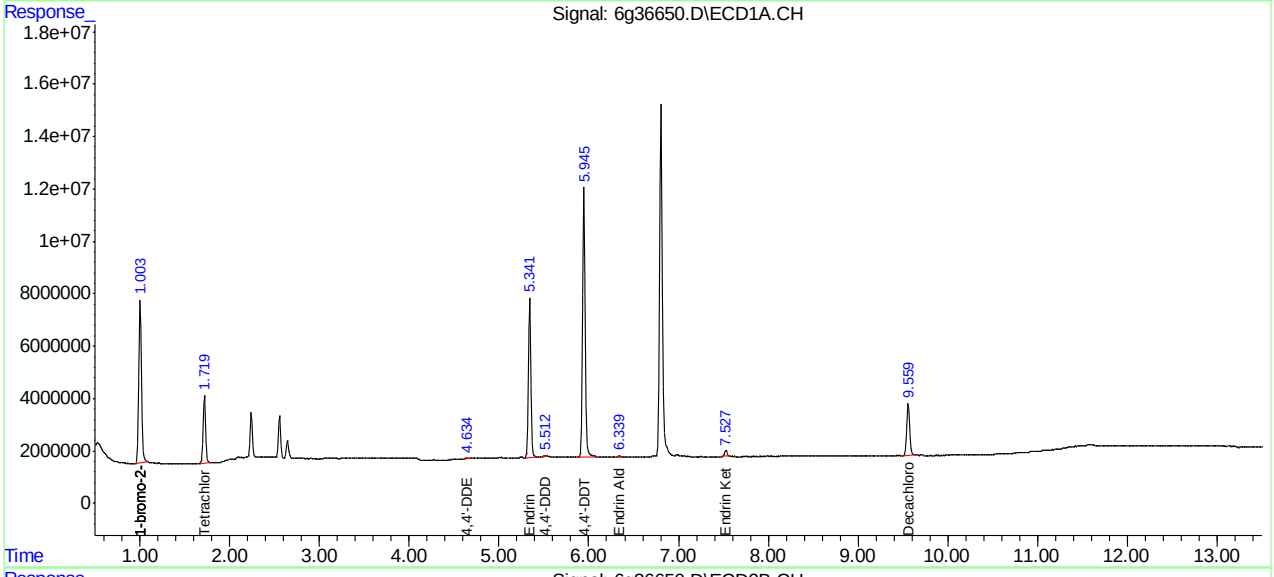
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

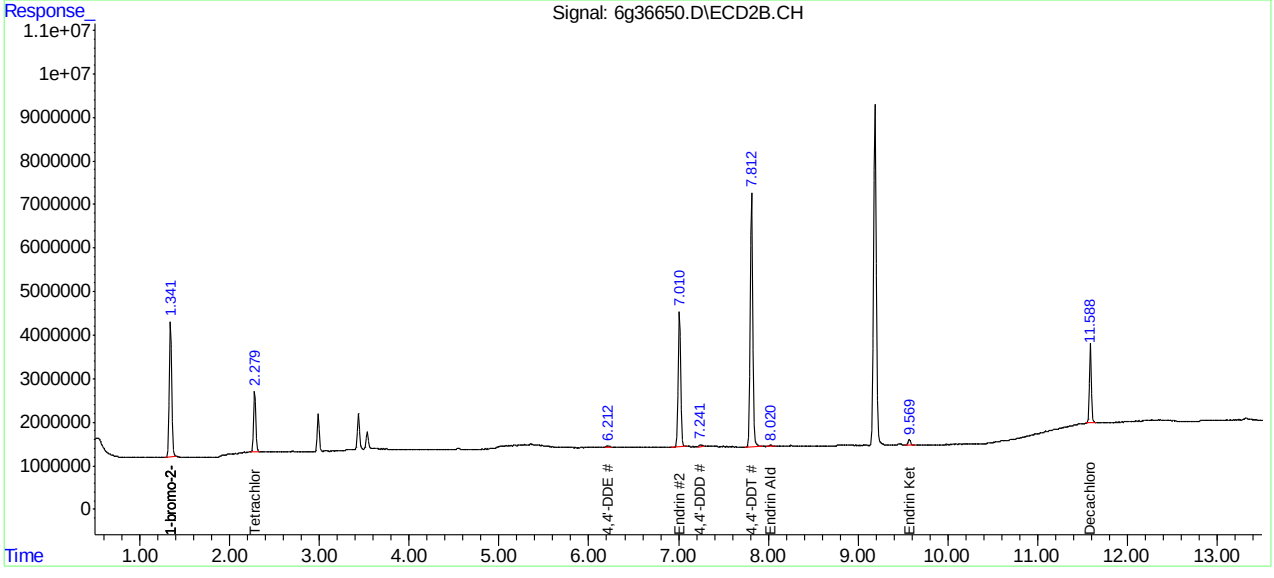
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:05:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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 JC22206

Manual Integration Approval Summary

Sample Number:	G6G1048-DDT	**Method:**	SW846 8081B
Lab FileID:	6G36650.D	**Analyst approved:**	06/28/16 11:11 Kristen Drake
Injection Time:	06/28/16 09:07	**Supervisor approved:**	06/28/16 15:33 Gwendolyn Burns

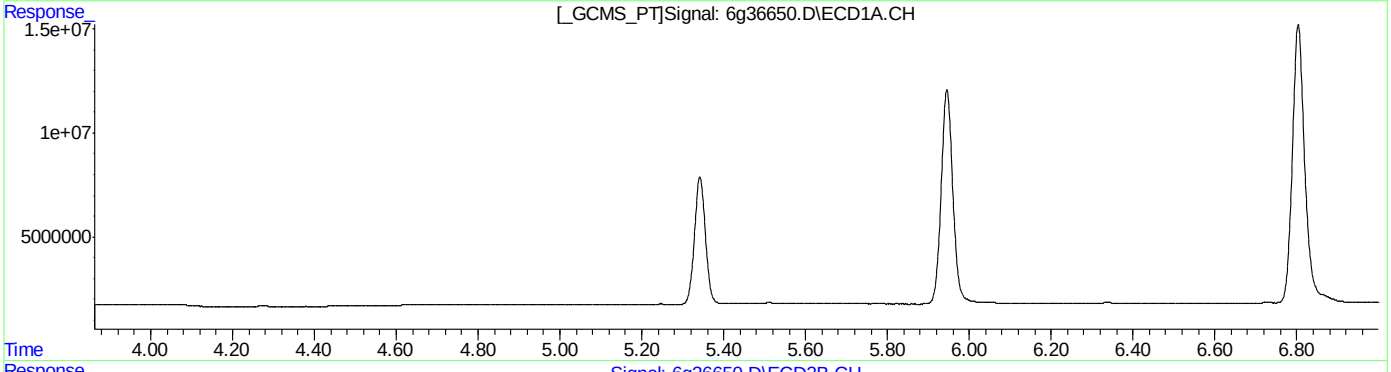
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.63	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.51	Poorly defined baseline
4,4'-DDE	72-55-9	2	6.21	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.34	Poorly defined baseline
4,4'-DDD	72-54-8	2	7.24	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.53	Poorly defined baseline

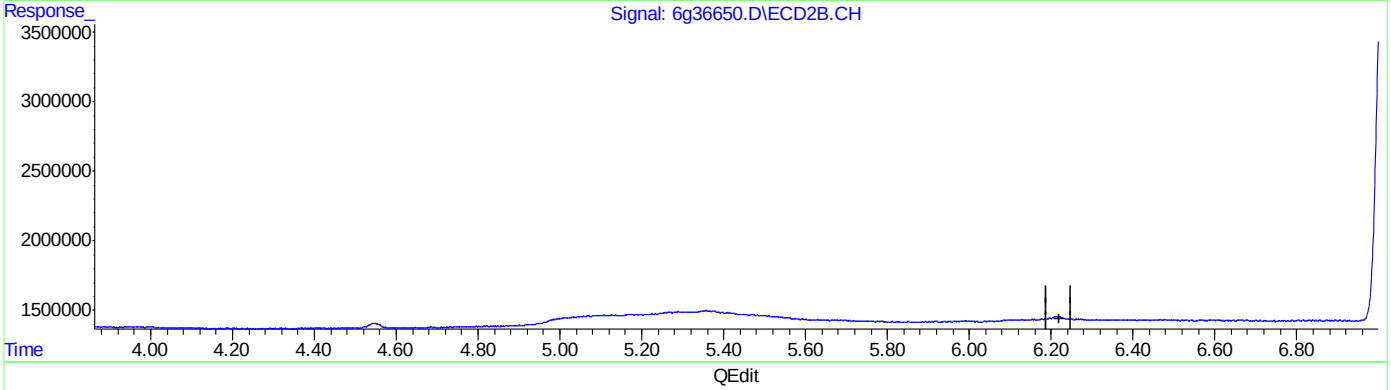
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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
6PST1034.M Tue Jun 28 11:03:25 2016

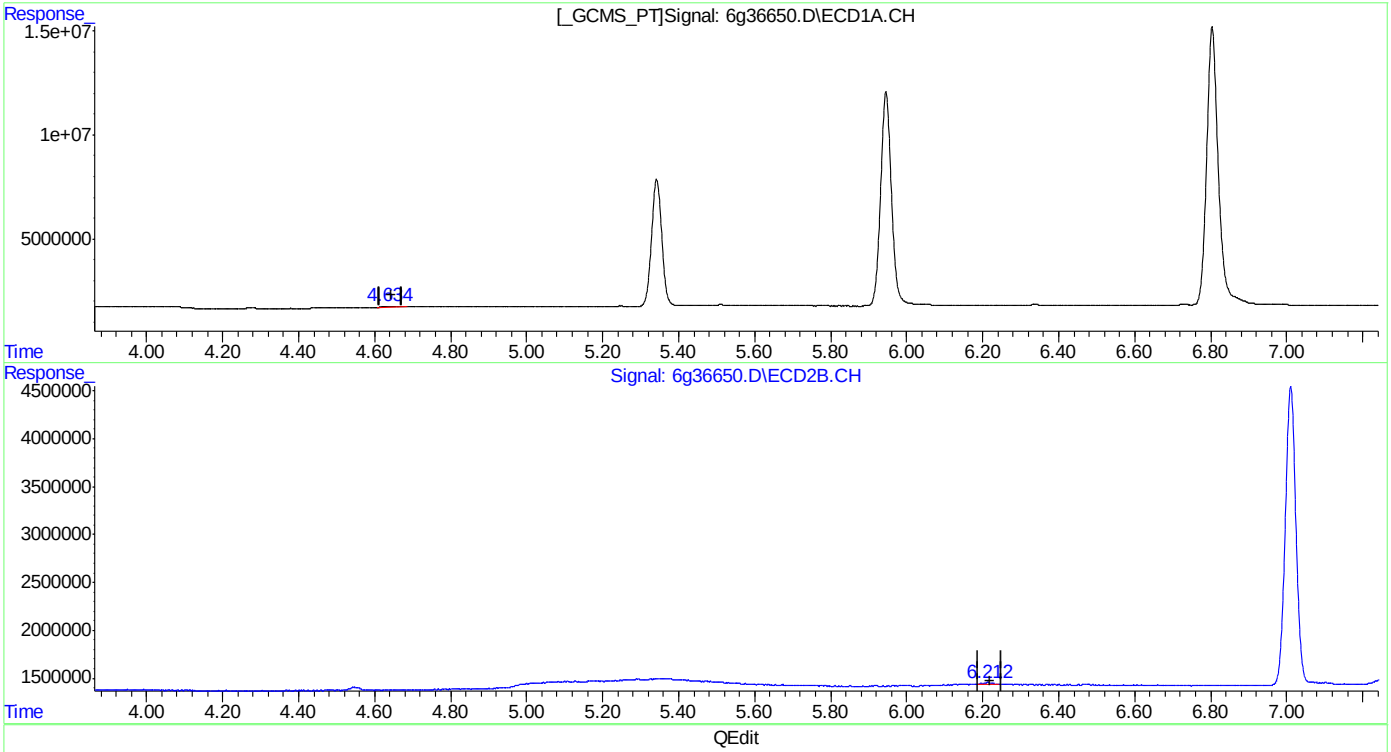
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
4.634min 0.297PPB m
response 607800

(13) 4,4'-DDE #2 (B)
6.212min 0.293PPB m
response 345262

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:04:03 2016

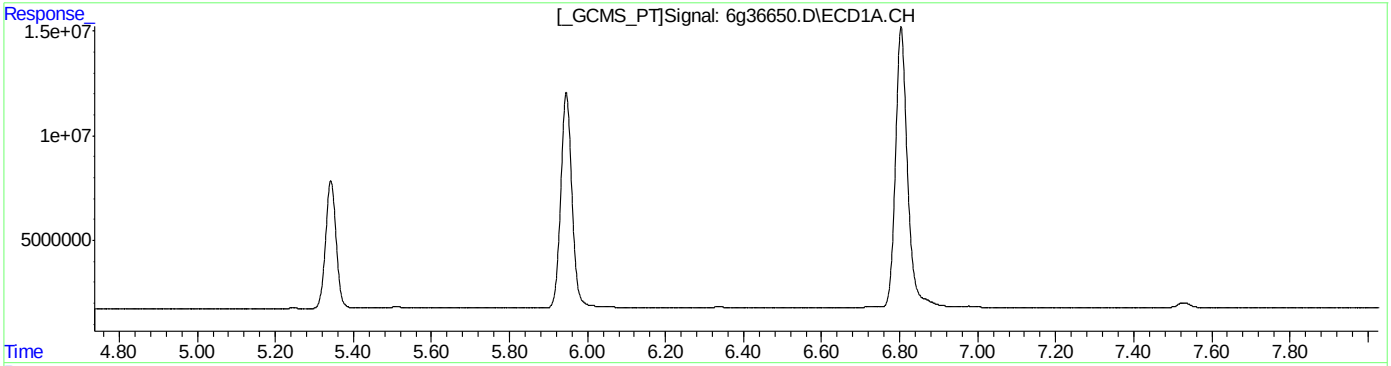
SGS ACCUTEST JC22206

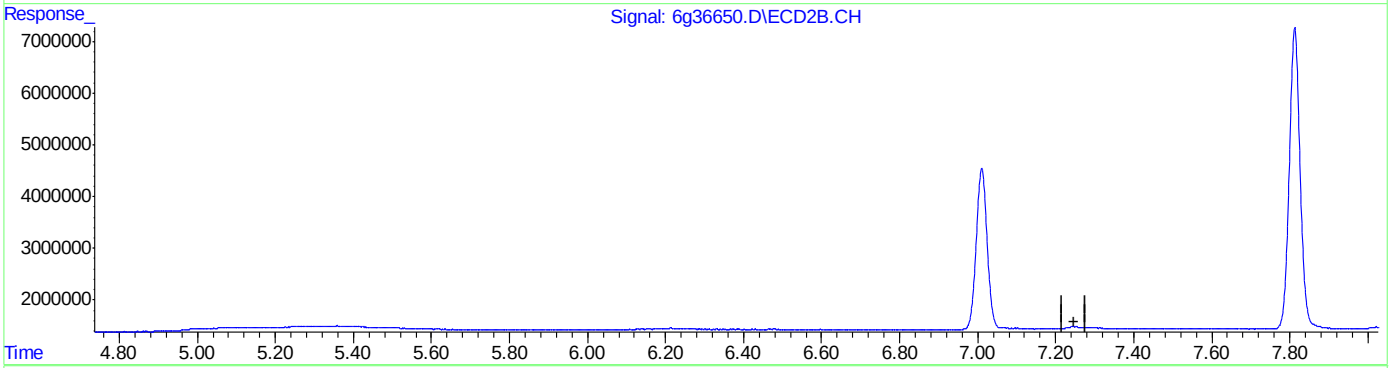
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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

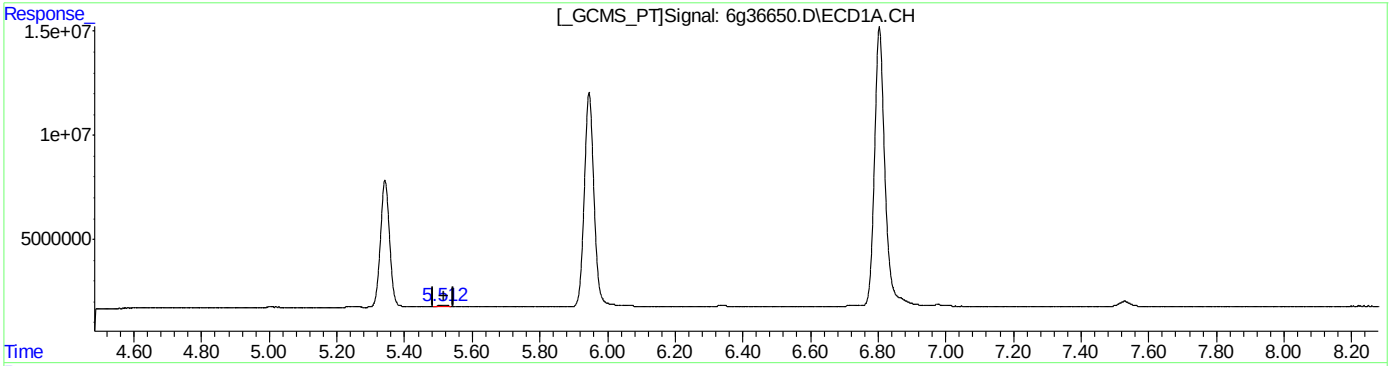
(+) = Expected Retention Time

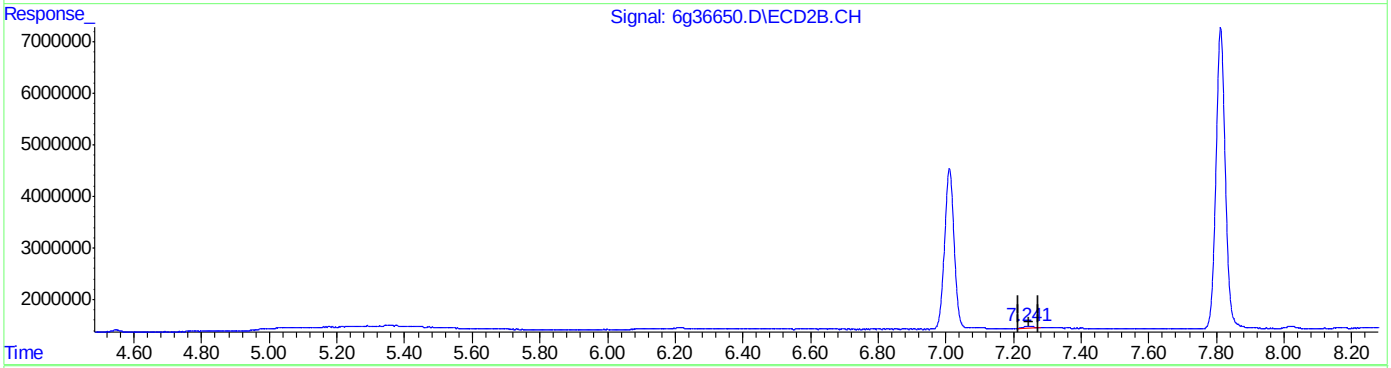
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
5.512min 0.259PPB m
response 501732

(16) 4,4'-DDD #2 (A)
7.241min 0.701PPB m
response 686658

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:04:30 2016

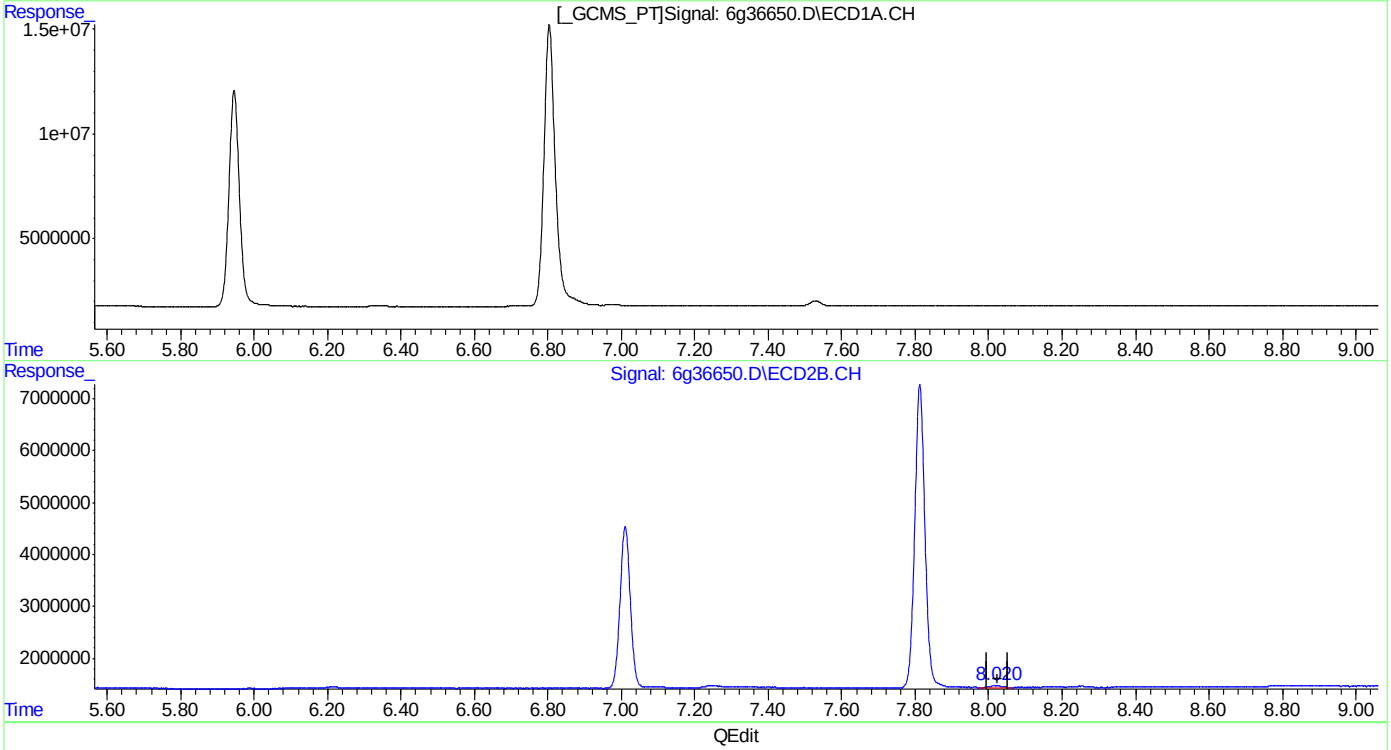
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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



(19) Endrin Aldehyde (B)
0.000min 0.000PPB
response 0

(19) Endrin Aldehyde #2 (B)
8.020min 0.699PPB
response 684873

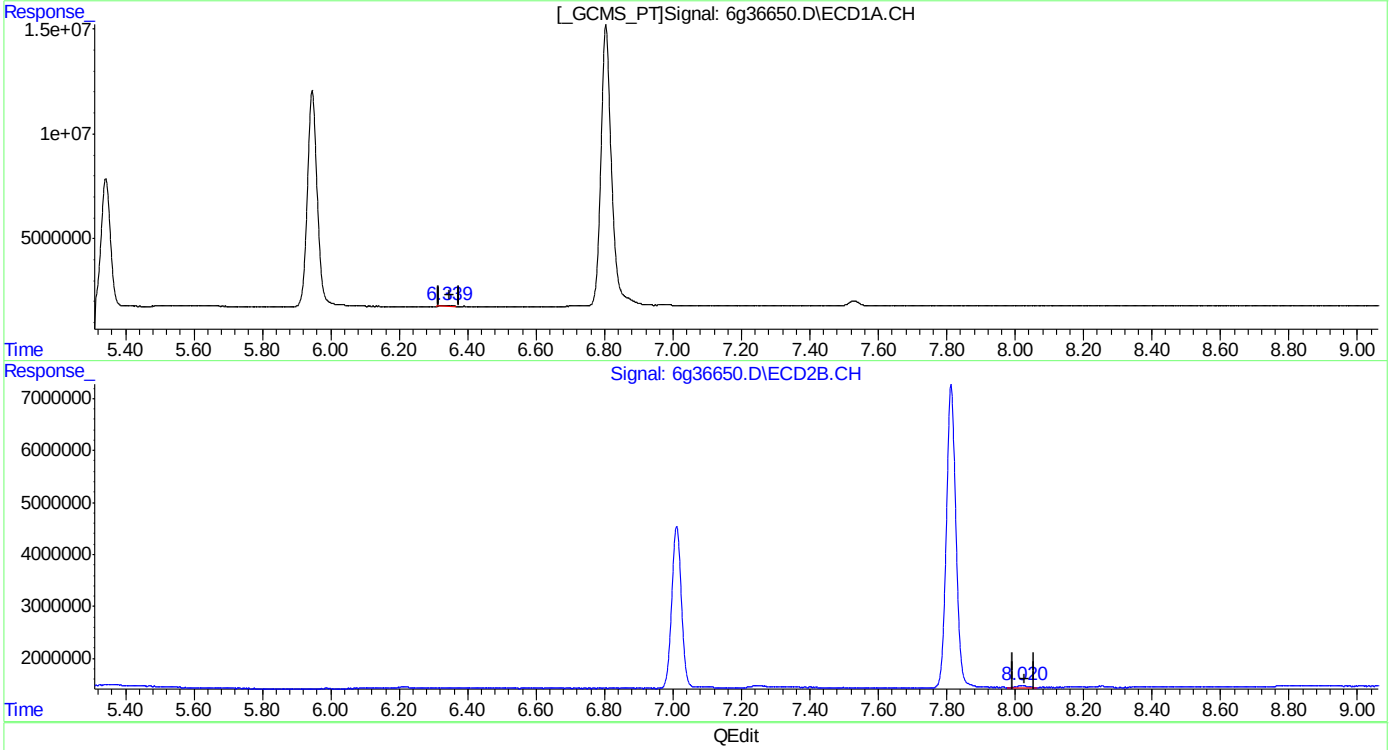
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:04:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
6.339min 0.436PPB m
response 854896

(19) Endrin Aldehyde #2 (B)
8.020min 0.699PPB
response 684873

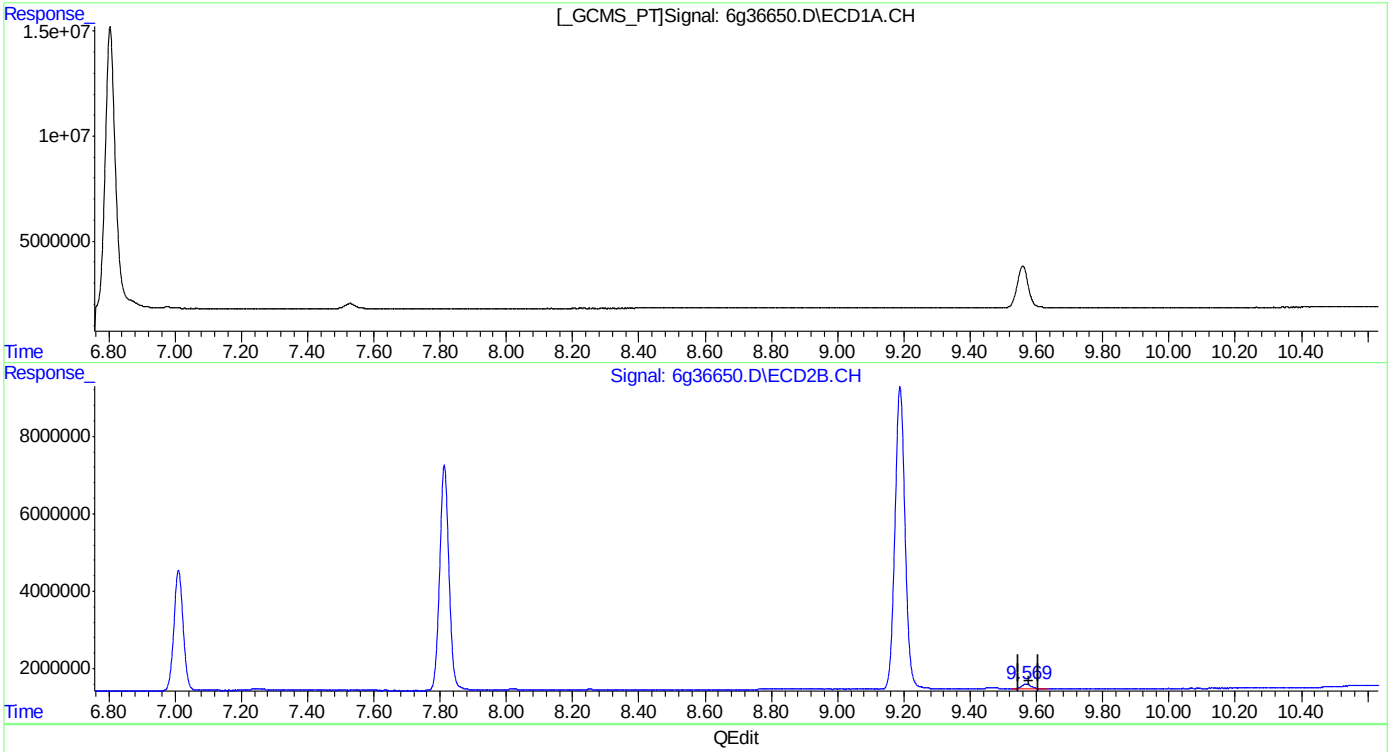
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:04:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
0.000min 0.000PPB
response 0

(23) Endrin Ketone #2 (B)
9.570min 2.352PPB
response 2747457

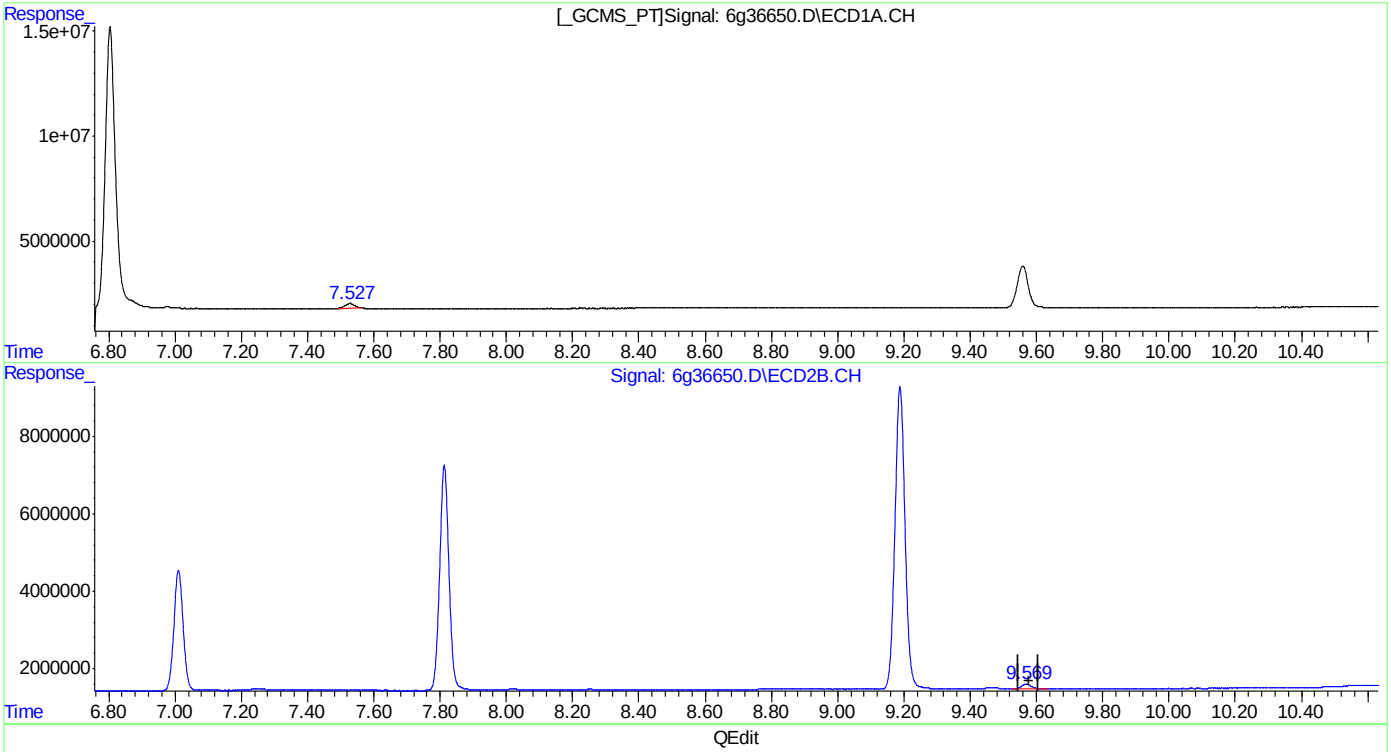
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:04:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36650.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:07 am
Operator : kristend
Sample : ddt
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 11:03:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
7.527min 1.904PPB m
response 4562792

(23) Endrin Ketone #2 (B)
9.570min 2.352PPB
response 2747457

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 11:05:07 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:56:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.006	1.345	120.5E6	50663797	50.000	50.000
25) I	1-bromo-2...	1.006	1.345	120.5E6	50663797	50.000	50.000
31) I	1-bromo-2...	1.006	1.345	120.5E6	50663797	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.727	2.285	2531003	1192957	1.219m	1.353m
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	3.05%#	3.38%#
24)	SAB Decachlor...	9.588	11.609	2737749	1498849	1.380	1.726m#
	Spiked Amount 40.000			Recovery	=	3.45%	4.32%
	Target Compounds						
3) A	alpha-BHC	2.249	2.999	3027104	1257528	1.089m	1.142
4) MA	gamma-BHC	2.564	3.449	2843395	1174758	1.063	1.128
5) MA	Heptachlor	3.085	4.048	2984410	1171425	1.199	1.160
6) B	beta-BHC	2.650	3.547	1686151	750459	1.288	1.446
7) B	delta-BHC	2.842	3.956	2934300	1120775	1.225	1.120
8) MB	Aldrin	3.431	4.518	2709740	1271527	1.191	1.346
9) B	Heptachlo...	4.166	5.388	2910336	1376324	1.376	1.483
10) B	gamma-Chl...	4.338	5.697	3301698	1283545	1.573	1.453
11) B	alpha-Chl...	4.516	5.933	2978696	1390038	1.376	1.560
12) A	Endosulfan I	4.692	6.031	3188460	1277728	1.461	1.500
13) B	4,4'-DDE	4.655	6.237	2037469	875907	1.131	1.073
14) MA	Dieldrin	5.030	6.496	2666481	1059609	1.247	1.218m
15) MA	Endrin	5.364	7.035	2288320	914763	1.128	1.113
16) A	4,4'-DDD	5.533	7.264	2081039	1037227	1.293	1.568
17) B	Endosulfa...	5.704	7.420	2631764	1045706	1.319	1.304
18) MA	4,4'-DDT	5.970	7.841	1818284	776214	1.048	1.123
19) B	Endrin Al...	6.362	8.046	1933536	855354	1.162	1.245
20) B	Endosulfa...	7.089	8.560	2294095	951143	1.244	1.281
21) A	Methoxychlor	6.839	9.219	1247825	586516	1.246	1.405
22)	Mirex	6.938	9.508	2675729	1229980	1.474	1.669
23) B	Endrin Ke...	7.557	9.598	2172956	986288	1.004	1.107

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

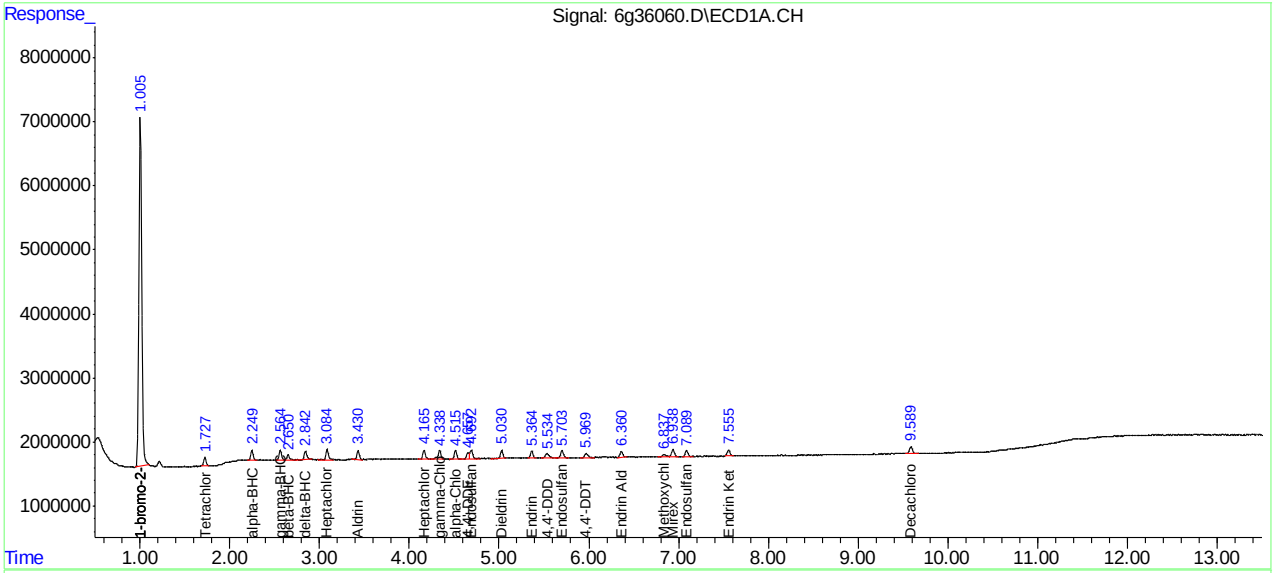
11.6.1 11

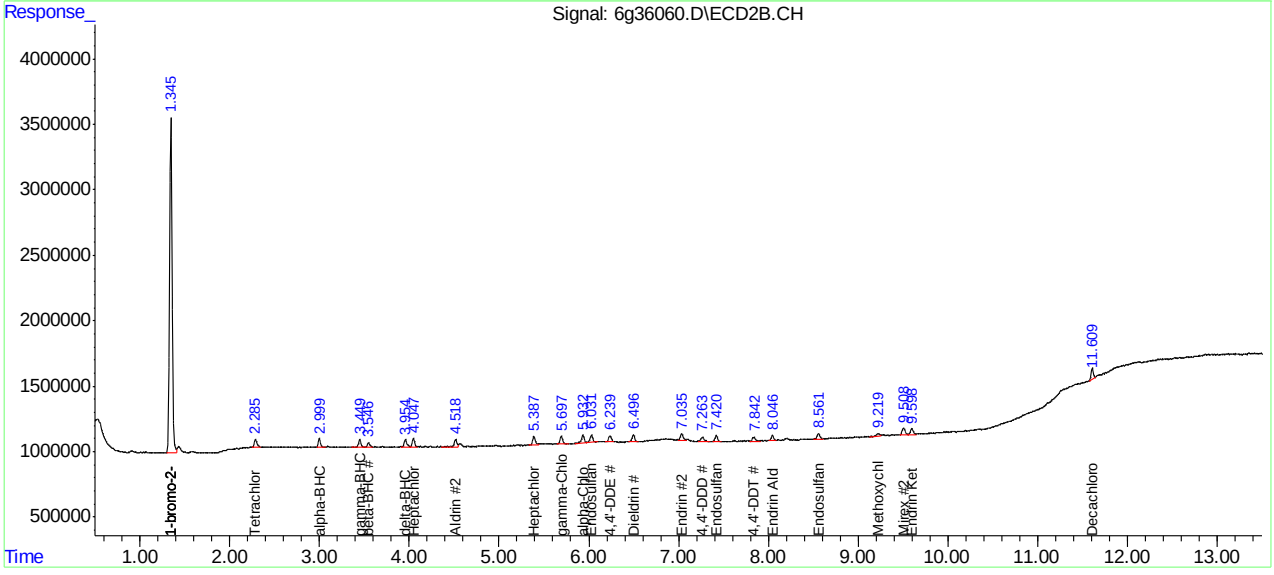
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:56:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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:	G6G1034-IC1034	**Method:**	SW846 8081B
Lab FileID:	6G36060.D	**Analyst approved:**	06/13/16 13:38 Rebecca Krug
Injection Time:	06/10/16 16:54	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

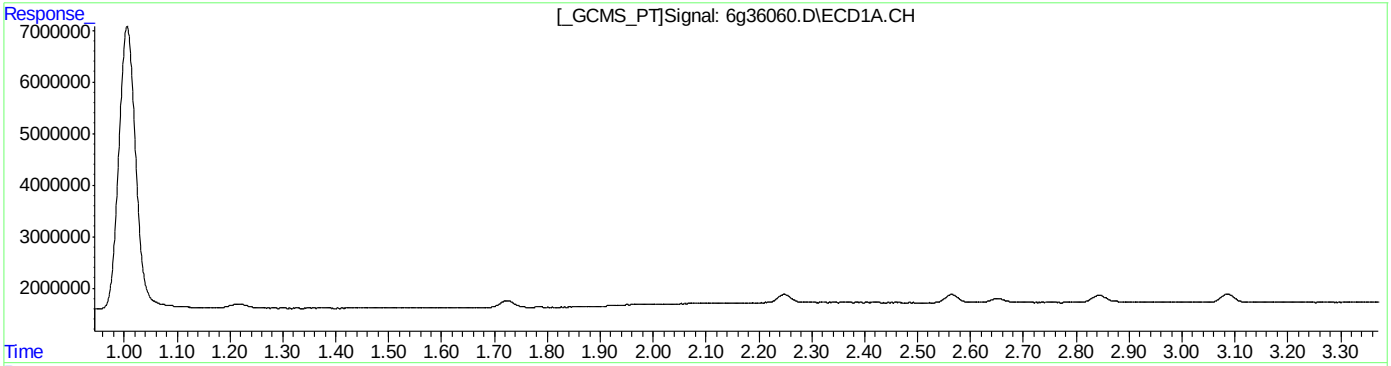
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.73	Poorly defined baseline
alpha-BHC	319-84-6	1	2.25	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	2.29	Poorly defined baseline
Dieldrin	60-57-1	2	6.50	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.61	Poorly defined baseline

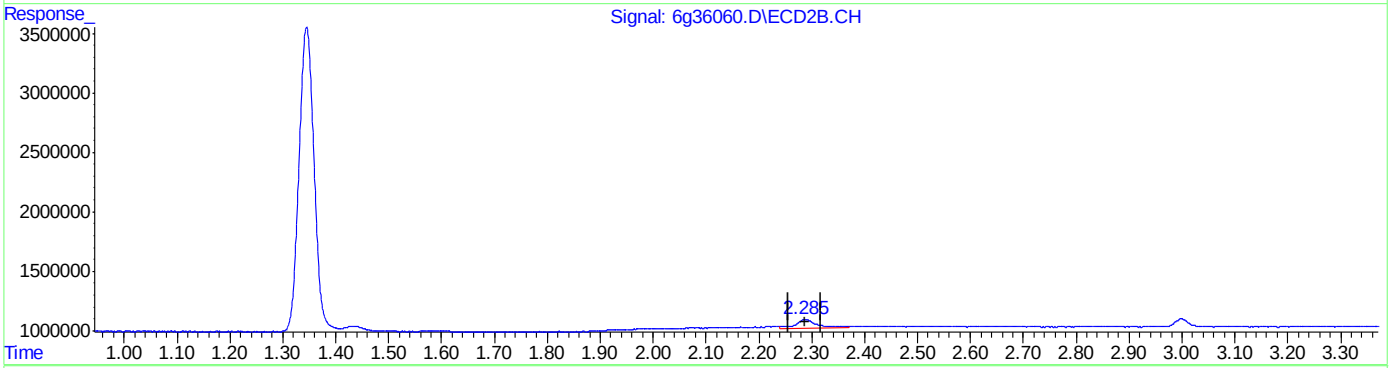
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
0.000min 0.000PPB
response 0

(2) Tetrachloro-m-xylene #2 (SAB)
2.287min 2.317PPB
response 2043350

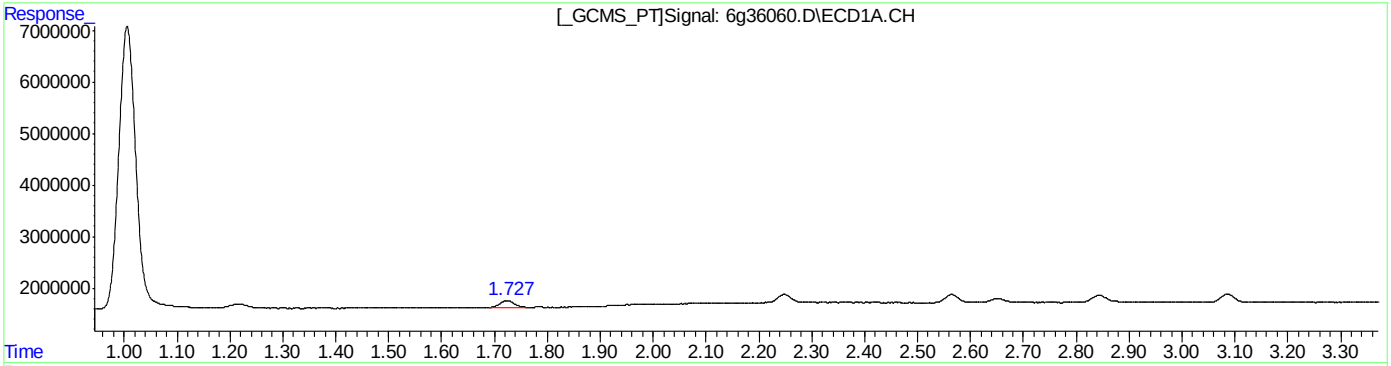
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:55:01 2016

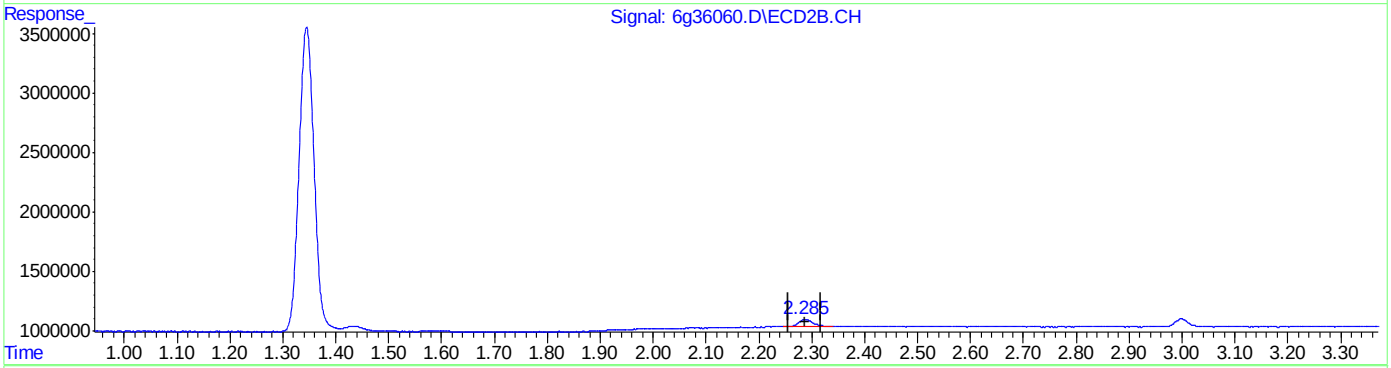
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
1.727min 1.219PPB m
response 2531003

(2) Tetrachloro-m-xylene #2 (SAB)
2.285min 1.353PPB m
response 1192957

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:55:11 2016

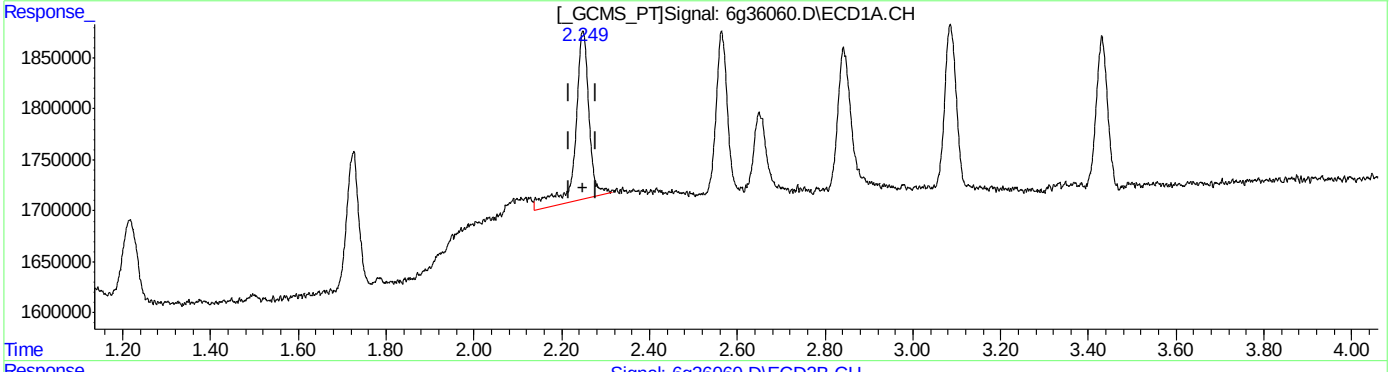
SGS ACCUTEST JC22206

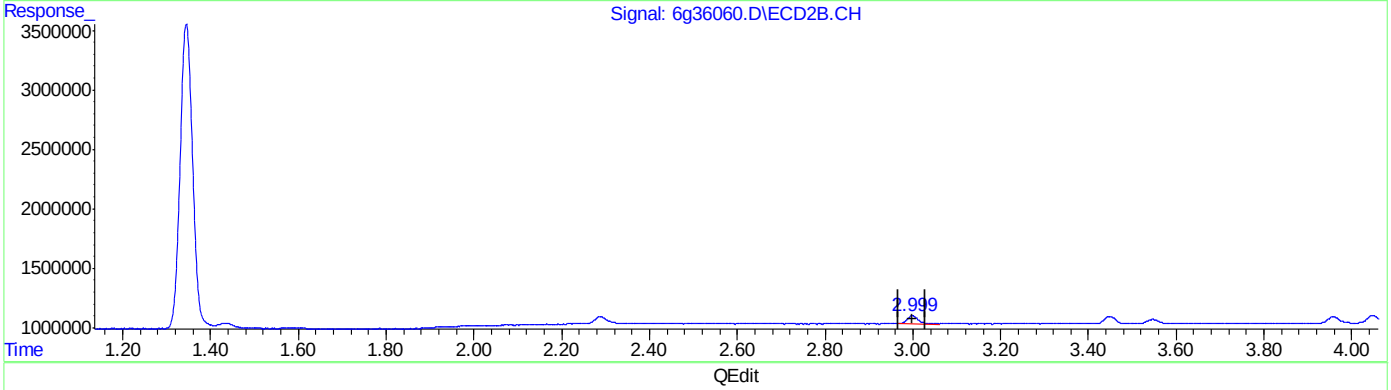
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
2.249min 1.299PPB
response 3611065

(3) alpha-BHC #2 (A)
2.999min 1.142PPB
response 1257528

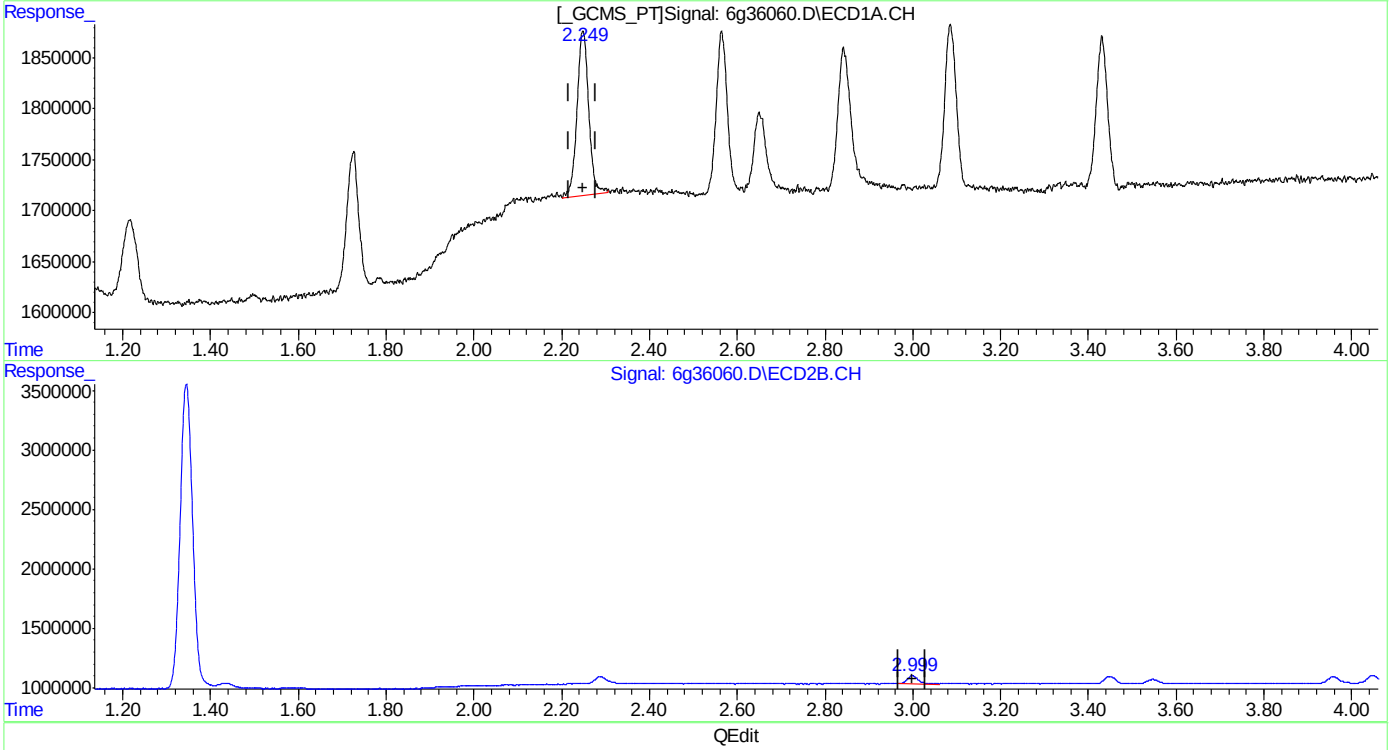
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
2.249min 1.089PPB m
response 3027104

(3) alpha-BHC #2 (A)
2.999min 1.142PPB
response 1257528

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:55:19 2016

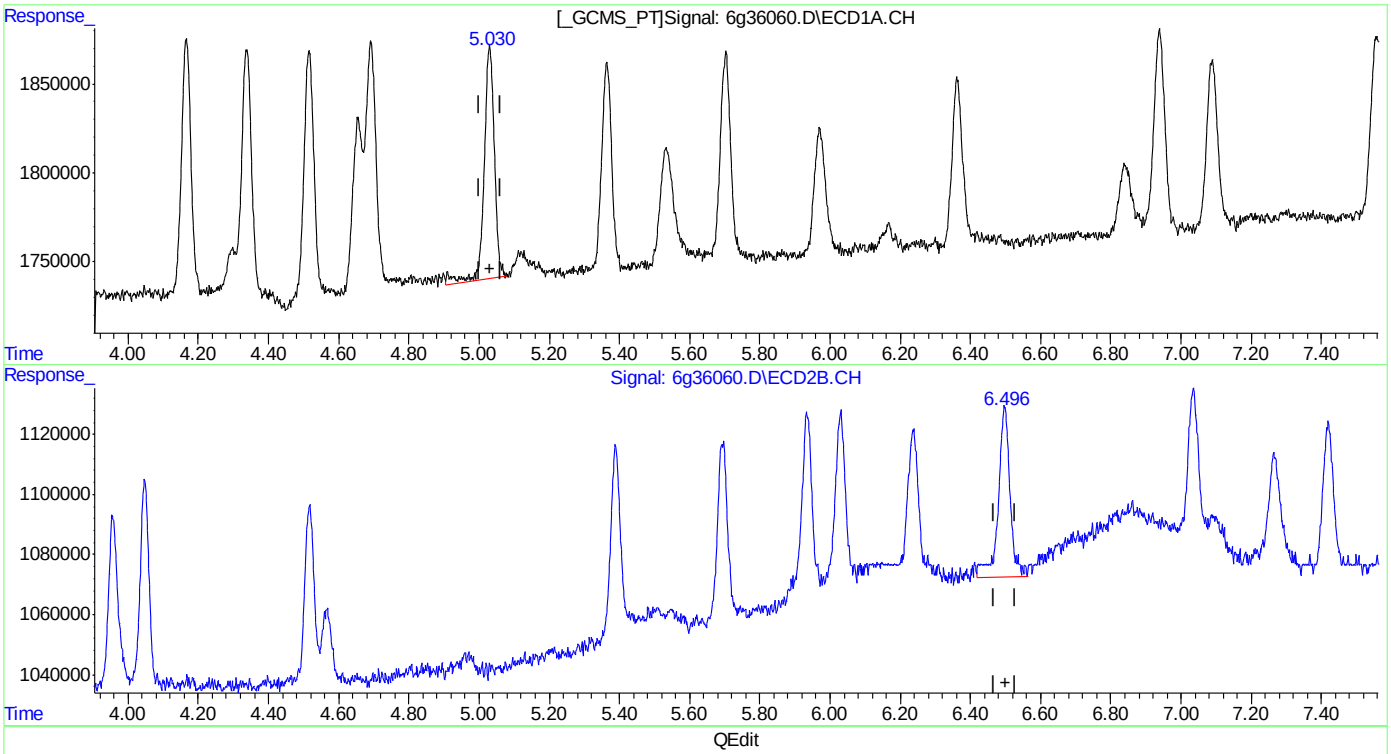
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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



(14) Dieldrin (MA)
5.030min 1.247PPB
response 2666481

(14) Dieldrin #2 (MA)
6.497min 1.529PPB
response 1331057

(+) = Expected Retention Time

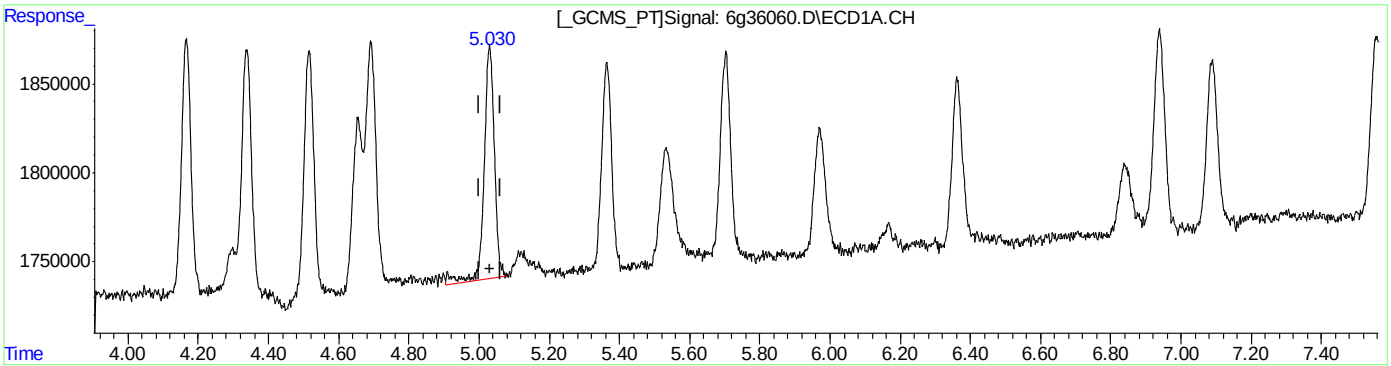
SGS ACCUTEST JC22206

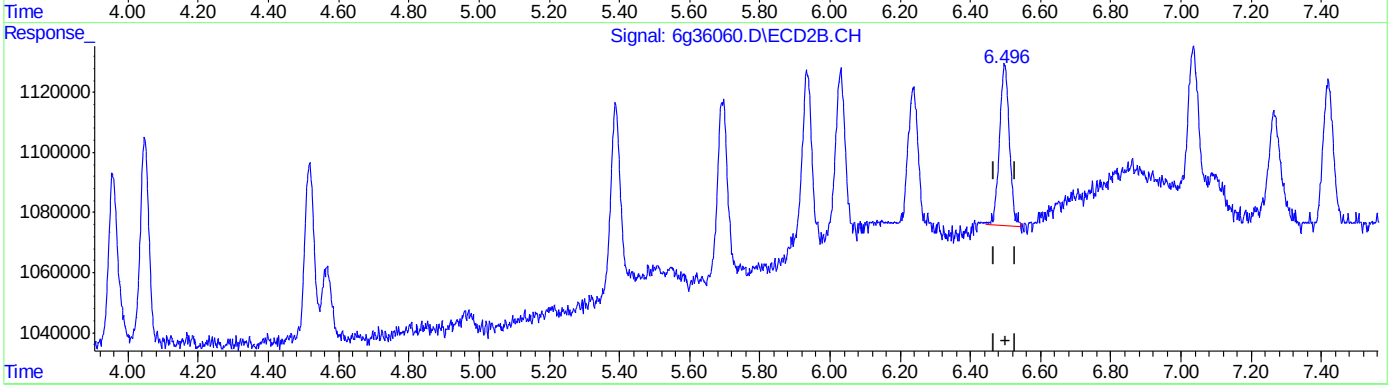
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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

(14) Dieldrin (MA)
5.030min 1.247PPB
response 2666481

(14) Dieldrin #2 (MA)
6.496min 1.218PPB m
response 1059609

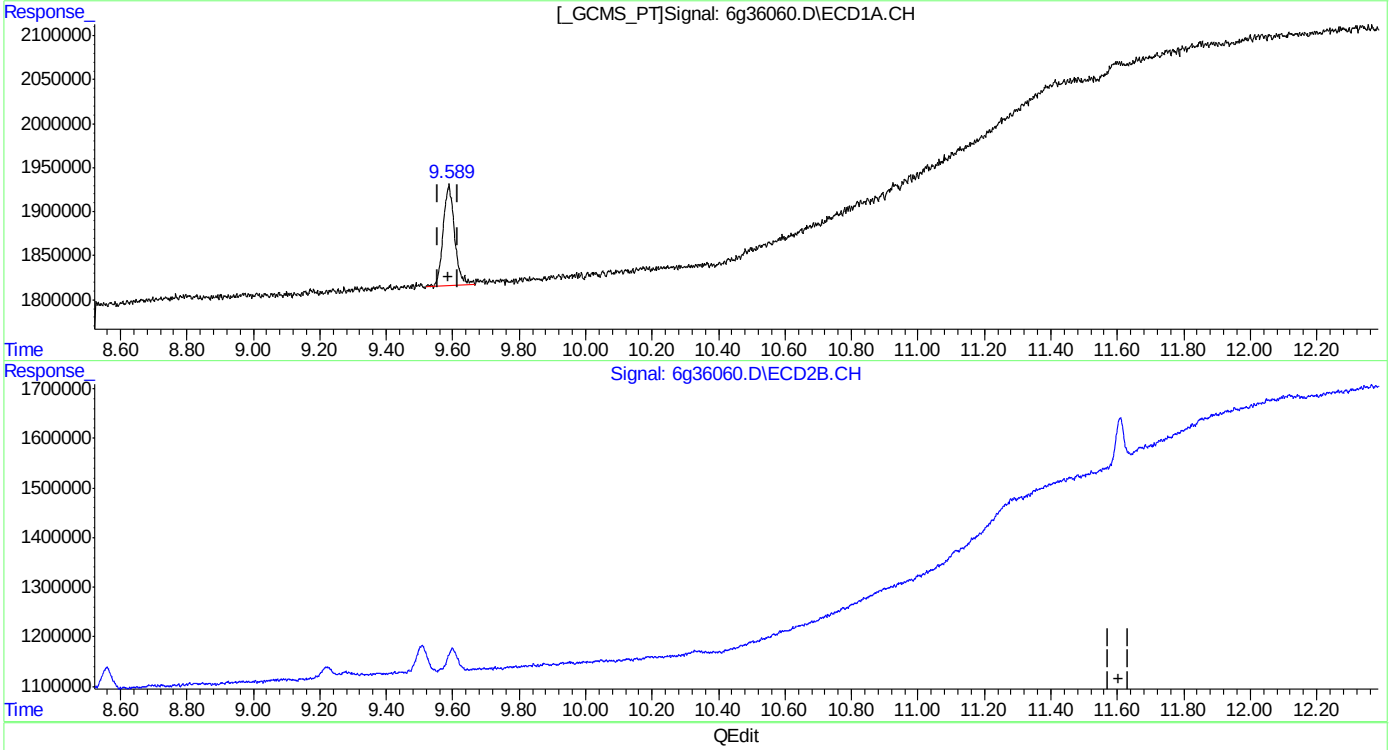
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
9.588min 1.380PPB
response 2737749

(24) Decachlorobiphenyl #2 (SAB)
0.000min 0.000PPB
response 0

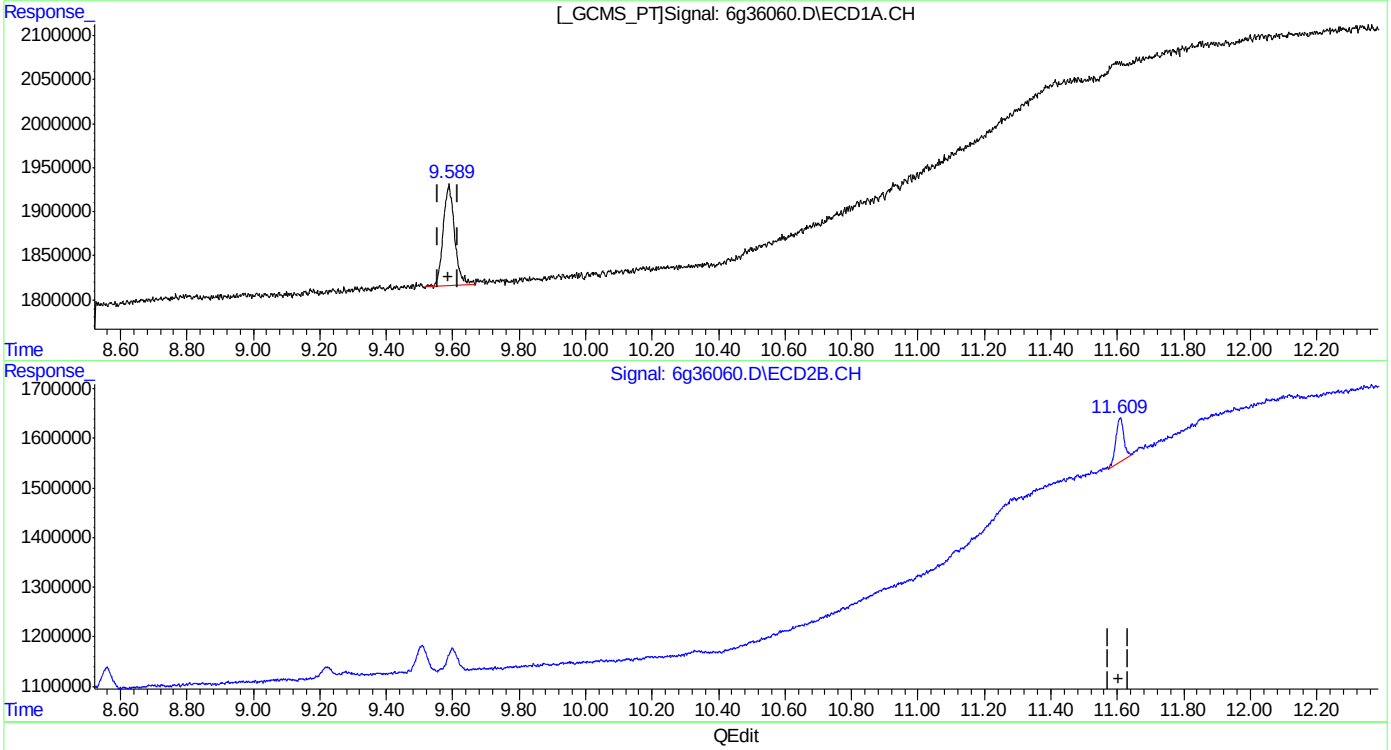
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:56:01 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36060.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 4:54 pm
Operator : dharas
Sample : ic1034-1
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
9.588min 1.380PPB
response 2737749

(24) Decachlorobiphenyl #2 (SAB)
11.609min 1.726PPB m
response 1498849

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:56:07 2016

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.005	1.345	134.1E6	56036073	50.000	50.000
25) I	1-bromo-2...	1.005	1.345	134.1E6	56036073	50.000	50.000
31) I	1-bromo-2...	1.005	1.345	134.1E6	56036073	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.724	2.290	5073858	2123247	2.195	2.177m
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 5.49%#	5.44%#
24)	SAB Decachlor...	9.590	11.608	5331280	2835503	2.413	2.952m
	Spiked Amount	40.000			Recovery	= 6.03%	7.38%
	Target Compounds						
3) A	alpha-BHC	2.248	3.000	5949207	2375657	1.922m	1.950
4) MA	gamma-BHC	2.566	3.450	5542893	2149544	1.861	1.866
5) MA	Heptachlor	3.087	4.048	5991372	2491017	2.161	2.230
6) B	beta-BHC	2.653	3.547	3130654	1260040	2.147	2.195
7) B	delta-BHC	2.845	3.958	6101267	2155043	2.288	1.946
8) MB	Aldrin	3.433	4.519	5483646	2252395	2.164	2.156
9) B	Heptachlo...	4.167	5.393	5430991	2490748	2.306	2.426
10) B	gamma-Chl...	4.340	5.697	5650913	2621663	2.417	2.684
11) B	alpha-Chl...	4.517	5.938	5603648	2530577	2.324m	2.567
12) A	Endosulfan I	4.693	6.032	5994721	2305523	2.466	2.447
13) B	4,4'-DDE	4.655	6.237	3631823	2251409	1.810	2.494 #
14) MA	Dieldrin	5.032	6.499	5083797	2280365	2.135	2.369
15) MA	Endrin	5.365	7.038	4841571	2121386	2.143	2.334
16) A	4,4'-DDD	5.534	7.268	3522280	1748776	1.966	2.390m
17) B	Endosulfa...	5.704	7.421	4878884	2060771	2.196	2.324
18) MA	4,4'-DDT	5.972	7.839	3470893	1455600	1.797	1.903
19) B	Endrin Al...	6.362	8.047	3964540	1761184	2.140	2.317
20) B	Endosulfa...	7.090	8.559	4152035	1988544	2.022	2.421
21) A	Methoxychlor	6.838	9.222	2164085	994714	1.940	2.155m
22)	Mirex	6.940	9.512	4942814	2403734	2.445	2.948
23) B	Endrin Ke...	7.558	9.601	4752674	1986056	1.973	2.015

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

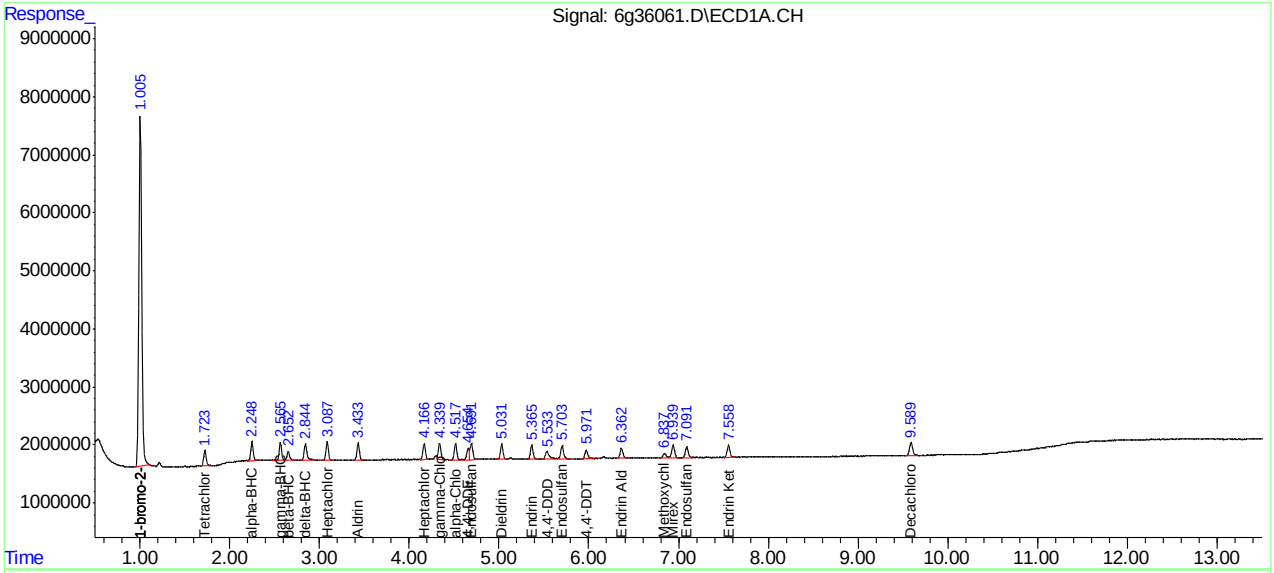
SGS ACCUTEST JC22206

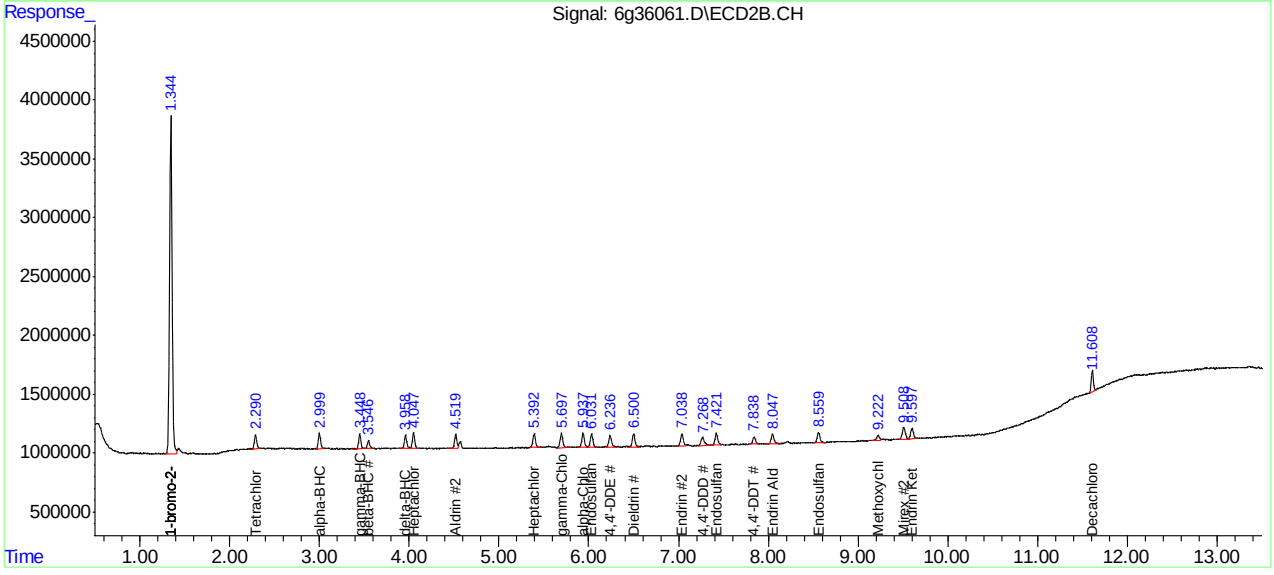
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:54:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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:	G6G1034-IC1034	**Method:**	SW846 8081B
Lab FileID:	6G36061.D	**Analyst approved:**	06/13/16 13:38 Rebecca Krug
Injection Time:	06/10/16 17:10	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

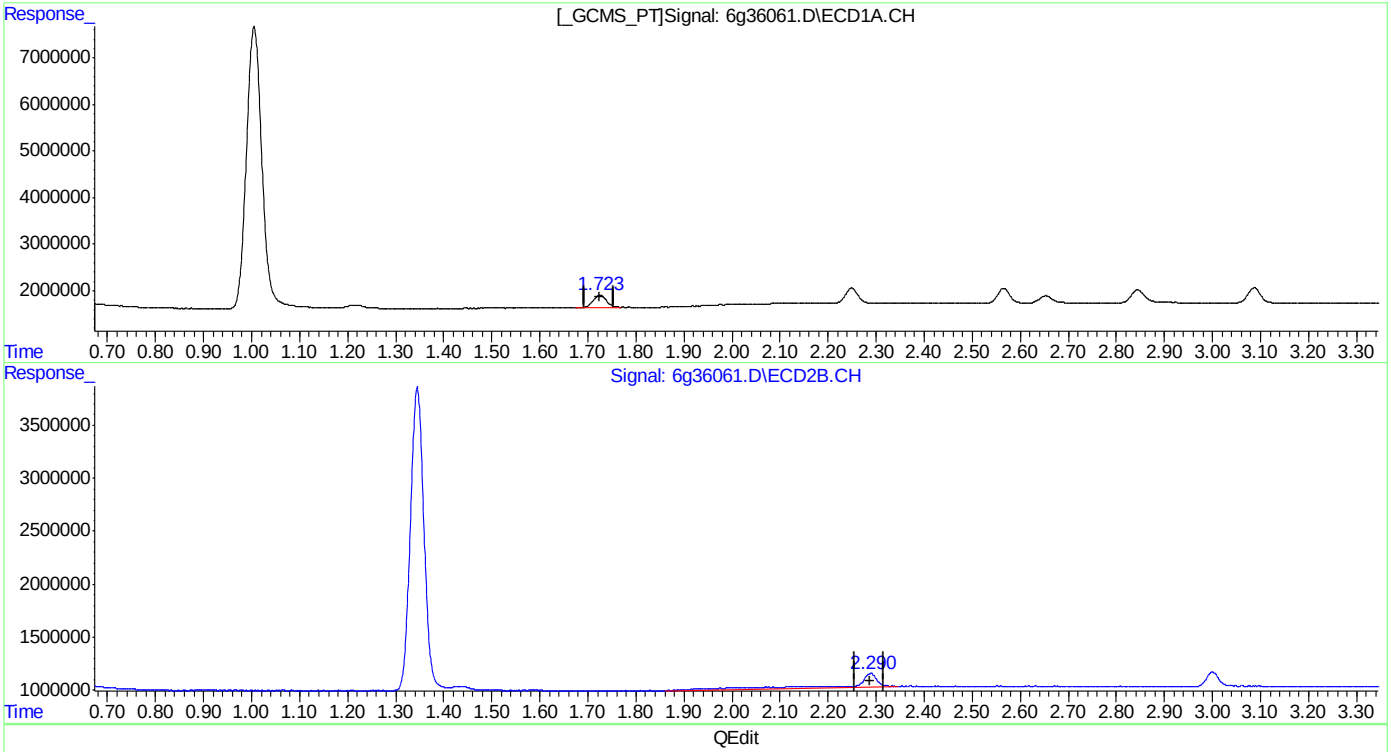
Parameter	CAS	Sig#	R.T. (min.)	Reason
alpha-BHC	319-84-6	1	2.25	Poorly defined baseline
Tetrachloro-m-xylene	877-09-8	2	2.29	Poorly defined baseline
alpha-Chlordane	5103-71-9	1	4.52	Poorly defined baseline
4,4'-DDD	72-54-8	2	7.27	Poorly defined baseline
Methoxychlor	72-43-5	2	9.22	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.61	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
1.724min 2.195PPB
response 5073858

(2) Tetrachloro-m-xylene #2 (SAB)
2.289min 5.604PPB
response 5466555

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:52:54 2016

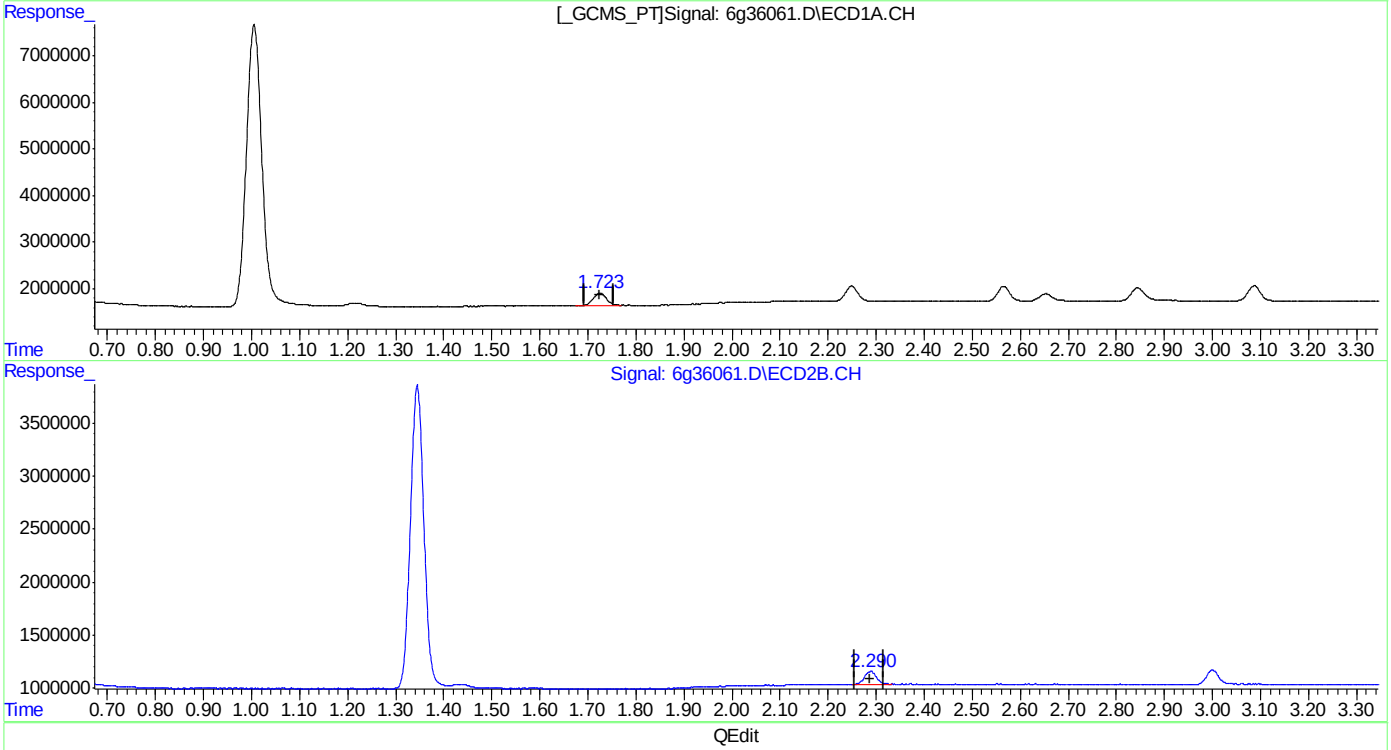
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
1.724min 2.195PPB
response 5073858

(2) Tetrachloro-m-xylene #2 (SAB)
2.290min 2.177PPB m
response 2123247

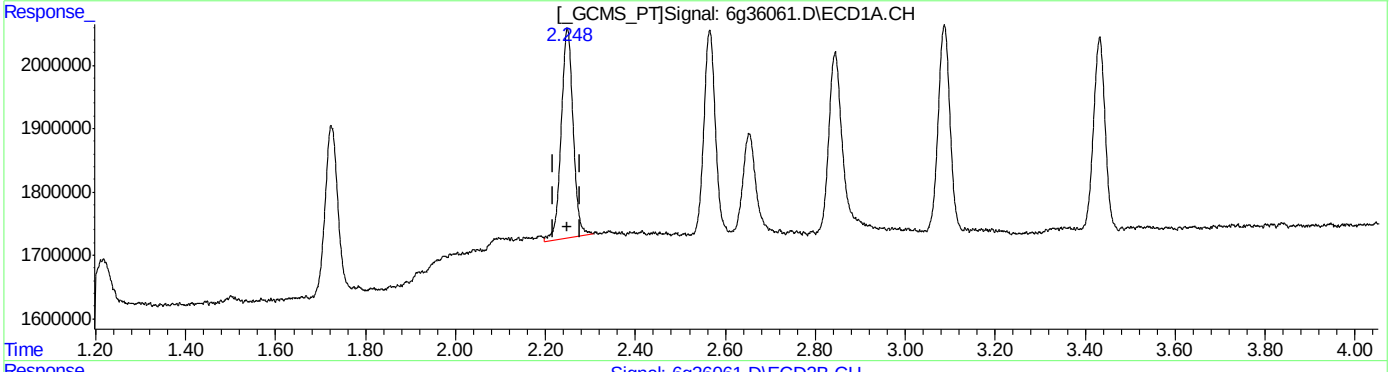
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:53:04 2016

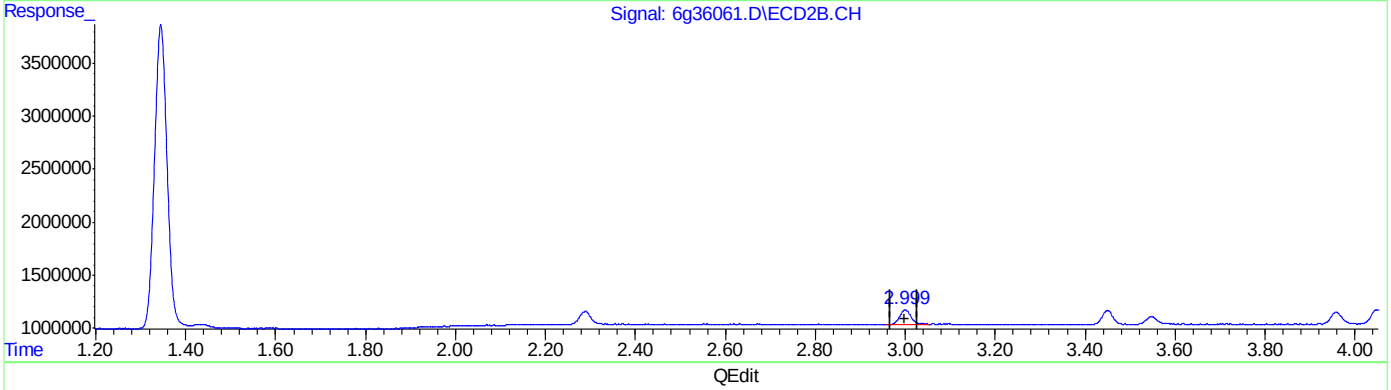
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
2.249min 1.969PPB
response 6092567

(3) alpha-BHC #2 (A)
3.000min 1.950PPB
response 2375657

(+) = Expected Retention Time

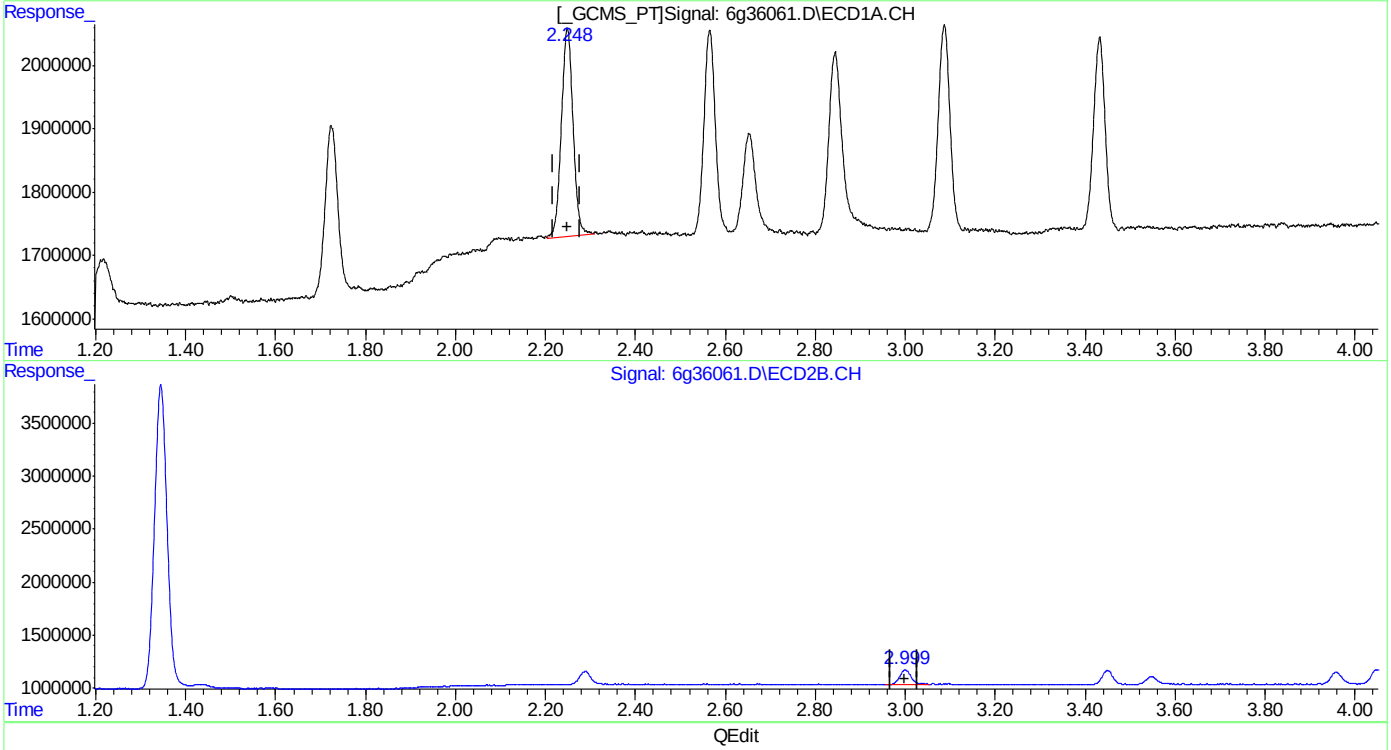
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
2.248min 1.922PPB m
response 5949207

(3) alpha-BHC #2 (A)
3.000min 1.950PPB
response 2375657

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:53:13 2016

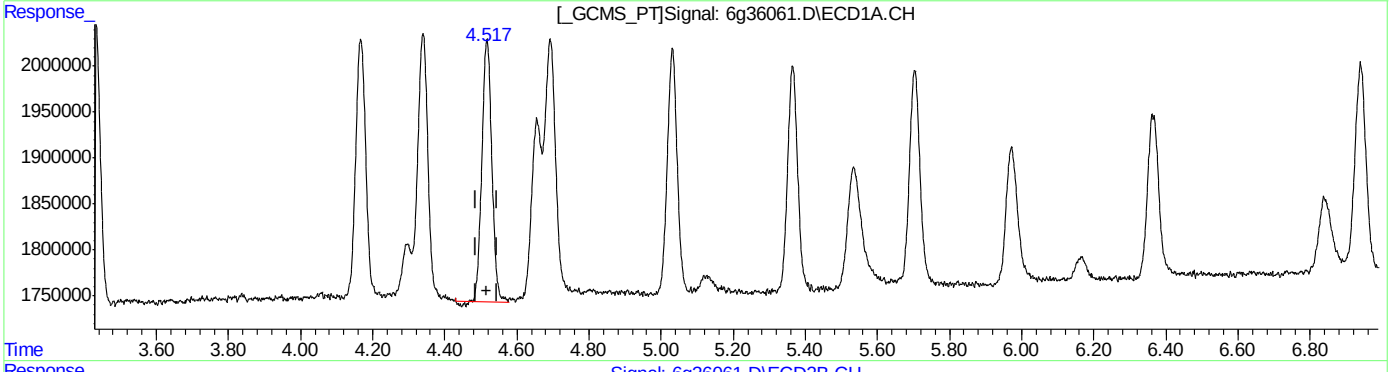
SGS ACCUTEST JC22206

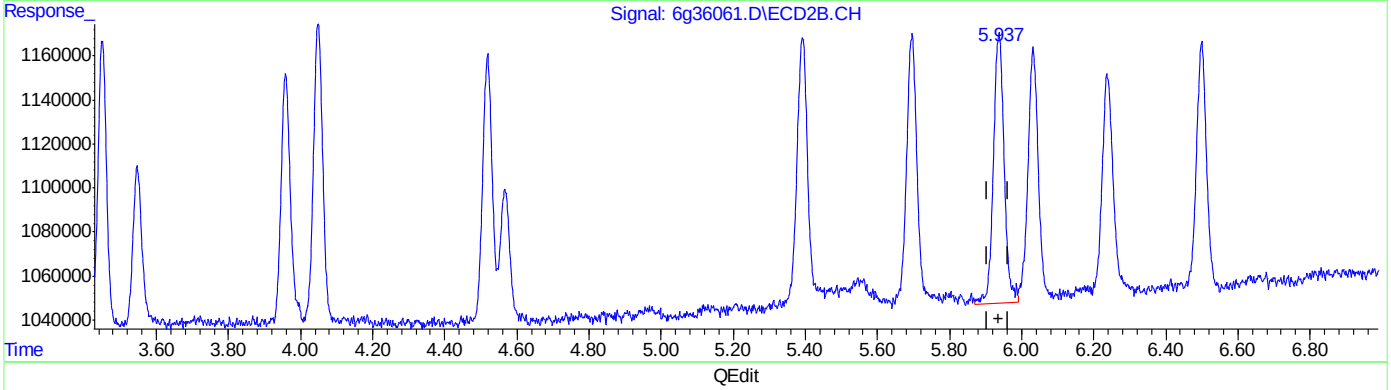
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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

(11) alpha-Chlordane (B)
4.517min 2.249PPB
response 5422417

(11) alpha-Chlordane #2 (B)
5.938min 2.567PPB
response 2530577

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:53:25 2016

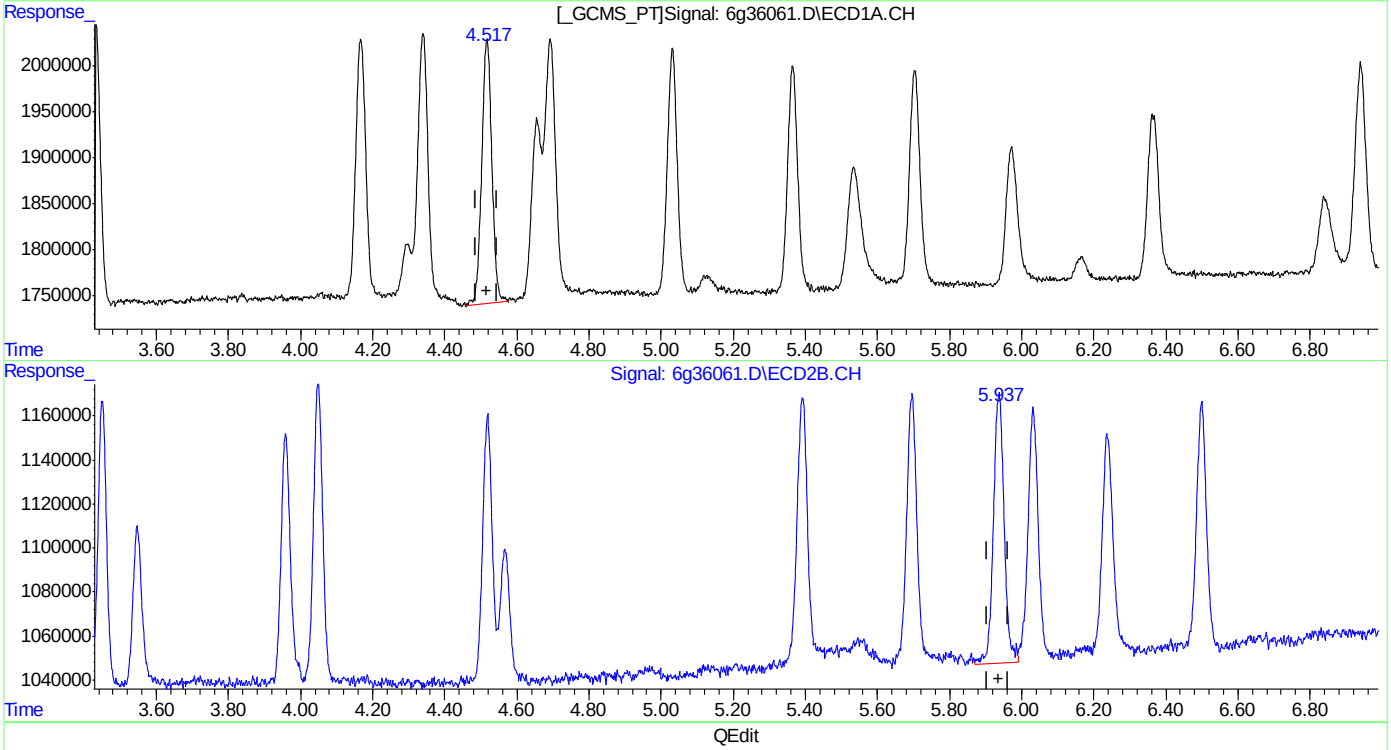
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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



(11) alpha-Chlordane (B)
4.517min 2.324PPB m
response 5603648

(11) alpha-Chlordane #2 (B)
5.938min 2.567PPB
response 2530577

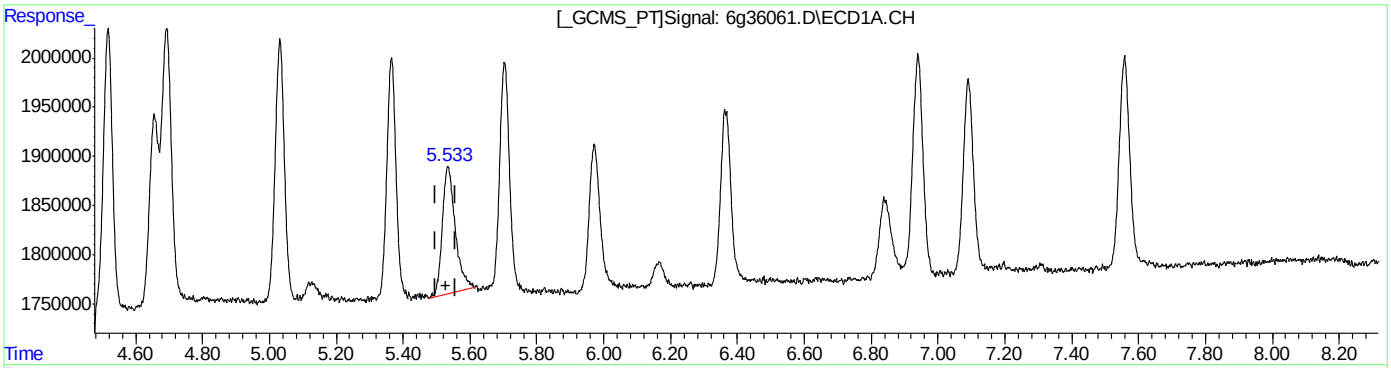
(+) = Expected Retention Time

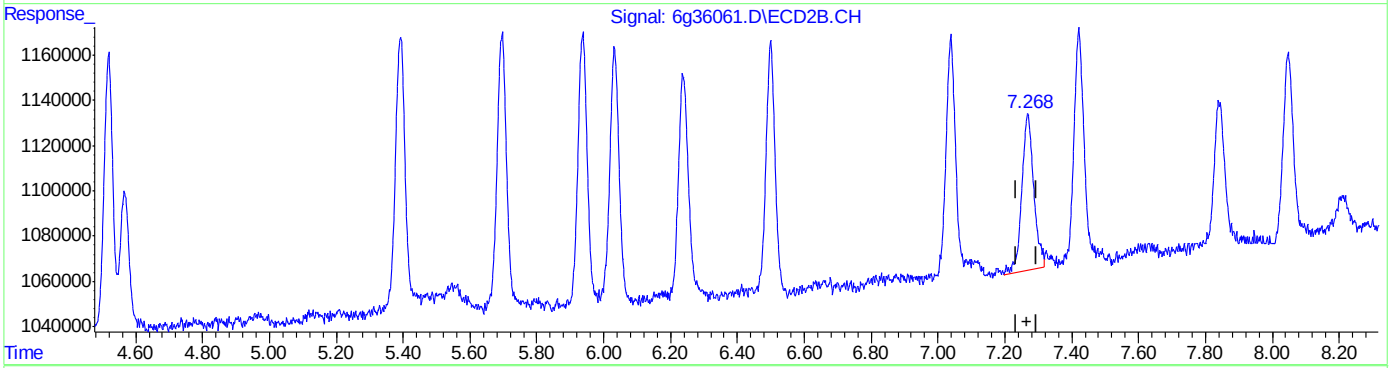
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
5.534min 1.966PPB
response 3522280

(16) 4,4'-DDD #2 (A)
7.269min 2.325PPB
response 1701498

(+) = Expected Retention Time

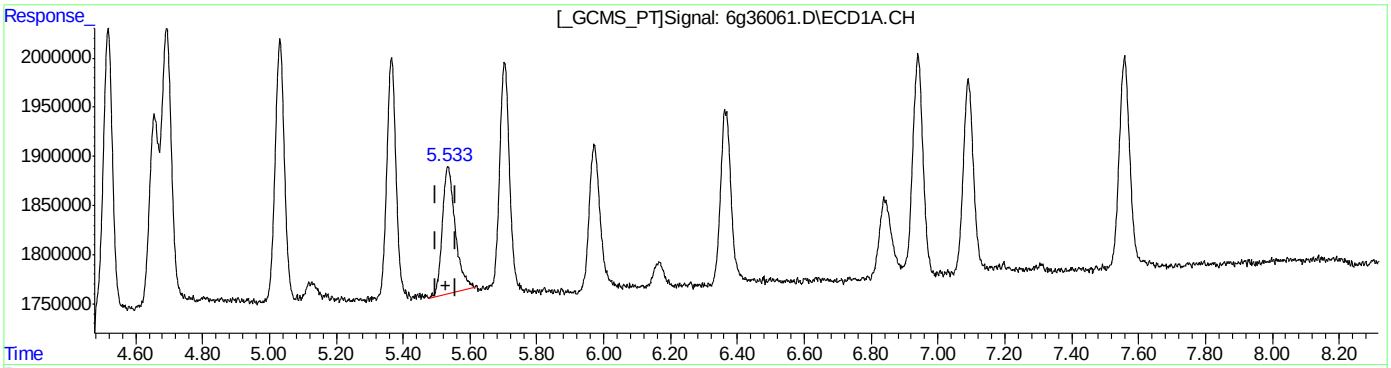
SGS ACCUTEST JC22206

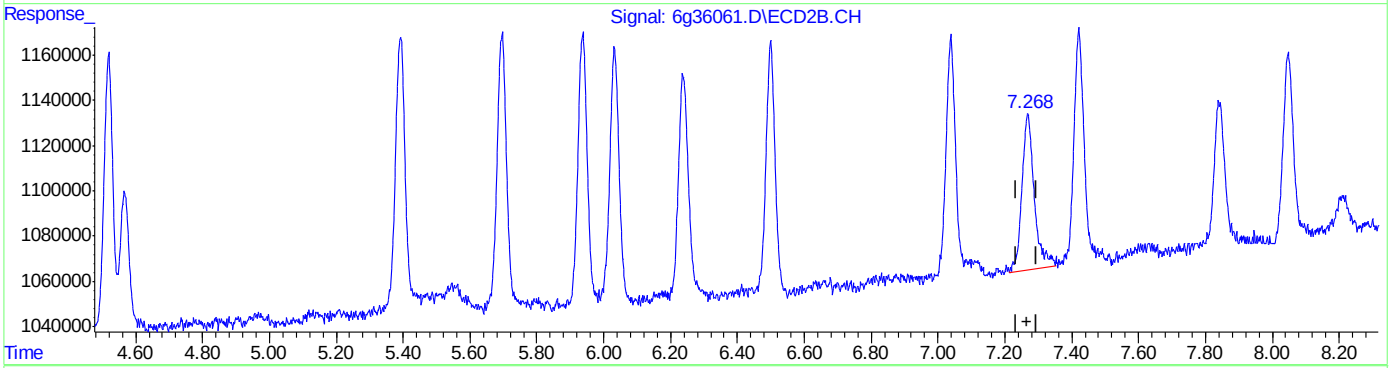
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
5.534min 1.966PPB
response 3522280

(16) 4,4'-DDD #2 (A)
7.268min 2.390PPB m
response 1748776

(+) = Expected Retention Time

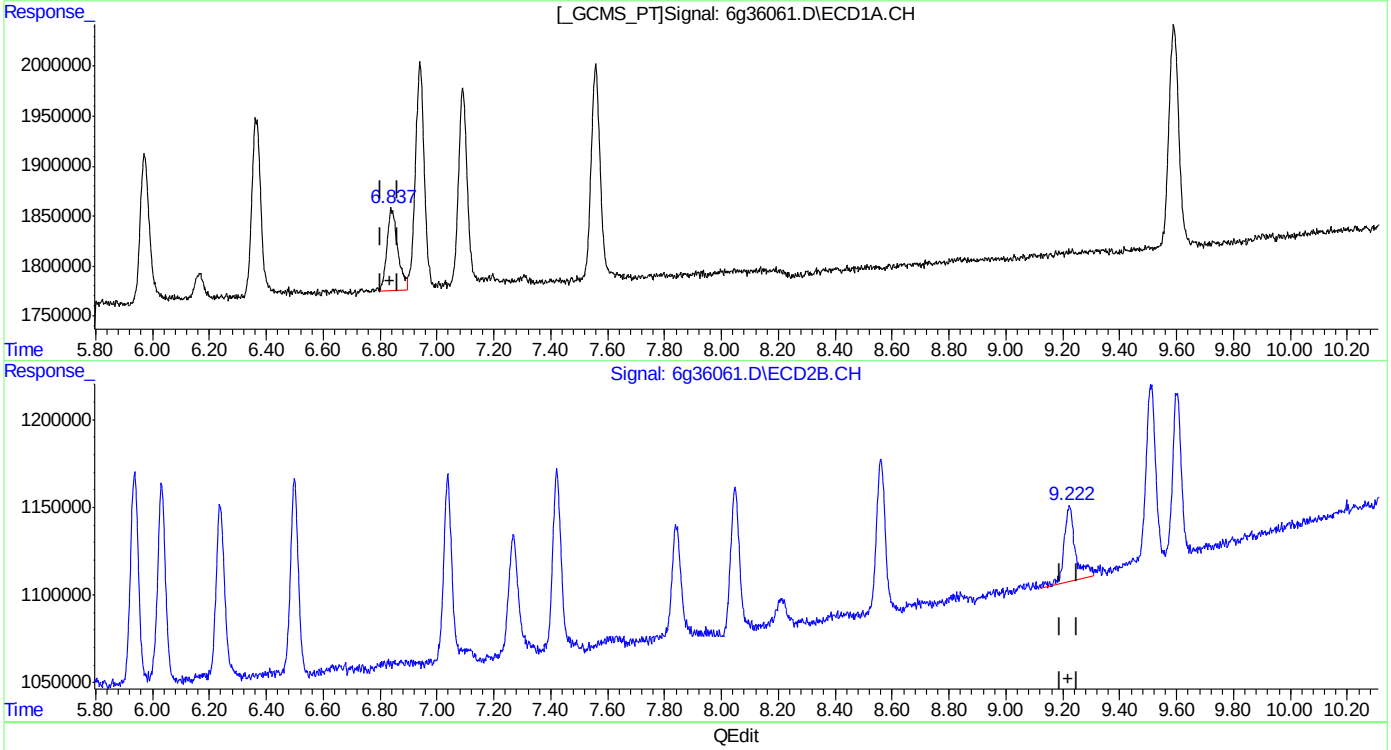
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
6.838min 1.940PPB
response 2164085

(21) Methoxychlor #2 (A)
9.223min 2.588PPB
response 1195020

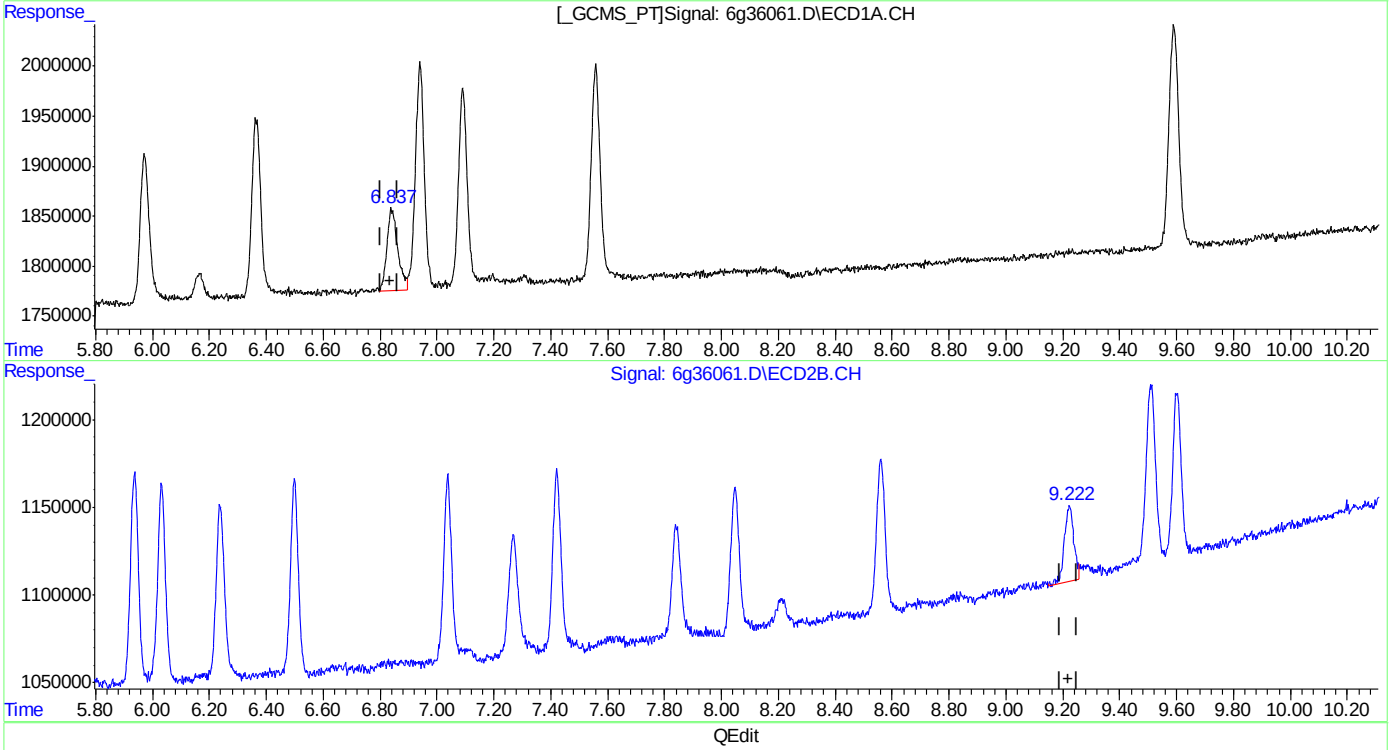
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
6.838min 1.940PPB
response 2164085

(21) Methoxychlor #2 (A)
9.222min 2.155PPB m
response 994714

(+) = Expected Retention Time

SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 2016
Response via : Initial Calibration
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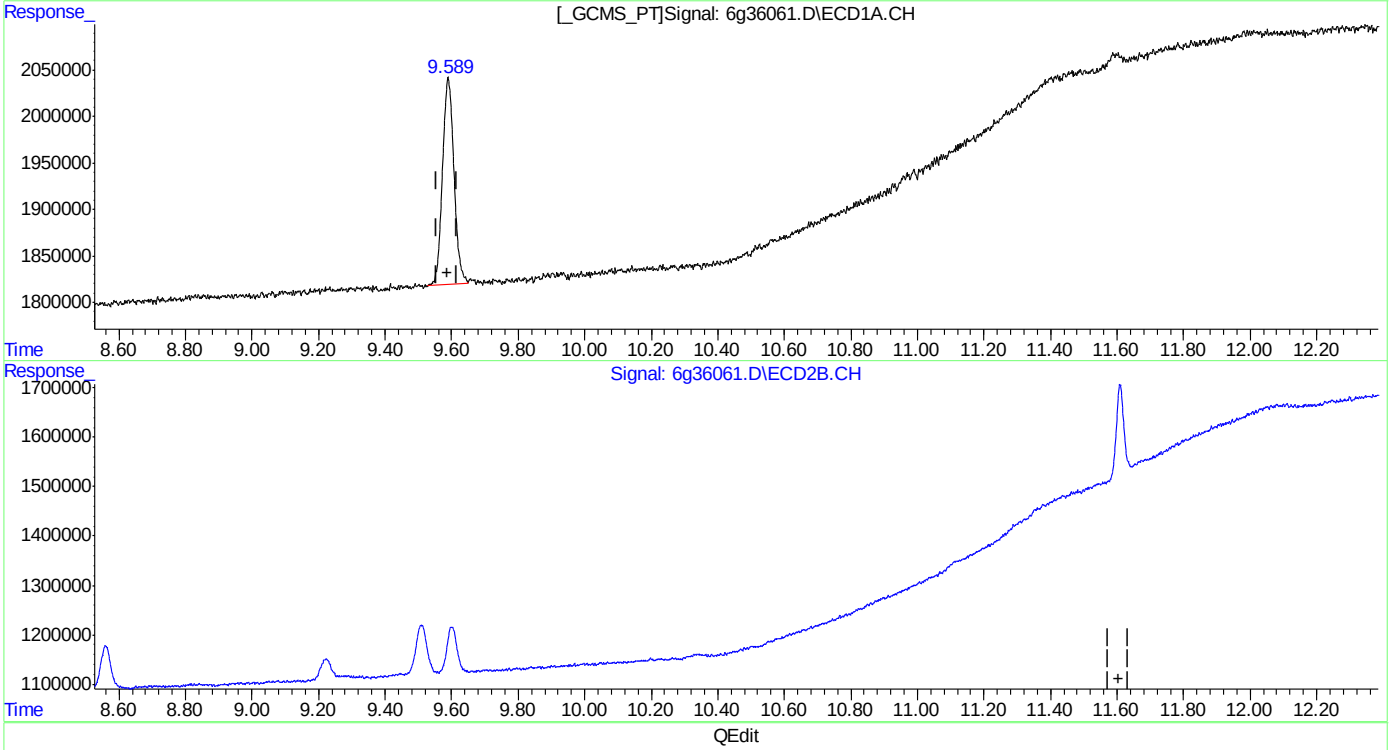
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SAB)
9.590min 2.413PPB
response 5331280

(24) Decachlorobiphenyl #2 (SAB)
0.000min 0.000PPB
response 0

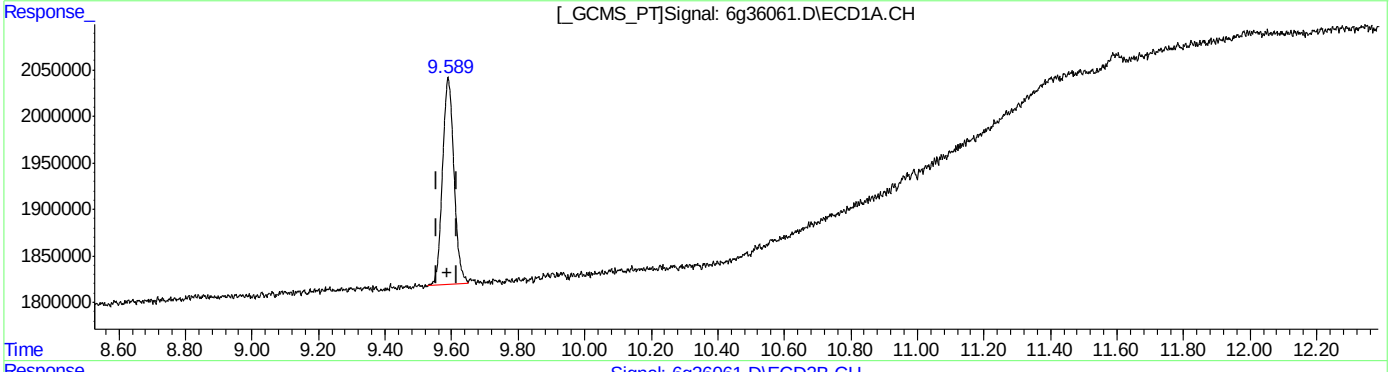
(+) = Expected Retention Time

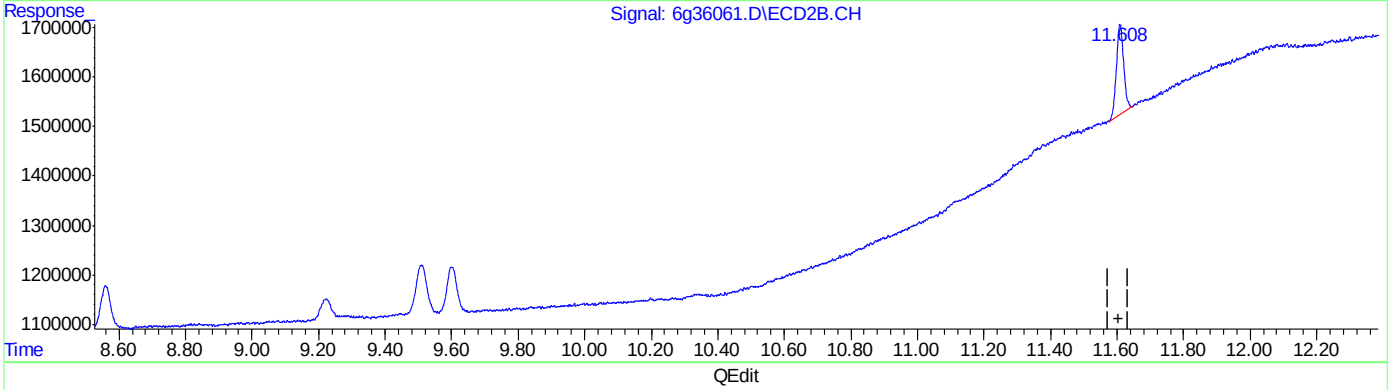
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36061.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:10 pm
Operator : dharas
Sample : ic1034-2
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
9.590min 2.413PPB
response 5331280

(24) Decachlorobiphenyl #2 (SAB)
11.608min 2.952PPB m
response 2835503

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:27 pm
Operator : dharas
Sample : ic1034-5
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.006	1.345	132.0E6	54993814	50.000	50.000
25) I	1-bromo-2...	1.006	1.345	132.0E6	54993814	50.000	50.000
31) I	1-bromo-2...	1.006	1.345	132.0E6	54993814	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.724	2.287	12188337	5509519	5.358	5.756
Spiked Amount		40.000 Range	30 - 150	Recovery	=	13.39%#	14.39%#
24) SAB	Decachlor...	9.586	11.607	12967859	6771441	5.964m	7.182
Spiked Amount		40.000		Recovery	=	14.91%	17.96%
	Target Compounds						
3) A	alpha-BHC	2.248	2.998	14672229	5636282	4.817	4.714
4) MA	gamma-BHC	2.565	3.449	14060303	5379054	4.797	4.757
5) MA	Heptachlor	3.086	4.047	14398985	6056548	5.277	5.524
6) B	beta-BHC	2.652	3.546	7584265	3072331	5.286	5.453
7) B	delta-BHC	2.843	3.957	13656937	5383072	5.203	4.954
8) MB	Aldrin	3.431	4.516	13286452	5491443	5.327	5.355
9) B	Heptachlo...	4.165	5.390	13221440	5608843	5.705	5.567
10) B	gamma-Chl...	4.337	5.693	14428961	5690310	6.271	5.935
11) B	alpha-Chl...	4.516	5.935	13330266	5768691	5.618	5.963
12) A	Endosulfan I	4.691	6.031	14513314	5503487	6.067	5.953
13) B	4,4'-DDE	4.654	6.235	8993694	4984696	4.555	5.627m
14) MA	Dieldrin	5.029	6.497	12477284	5214757	5.323	5.520
15) MA	Endrin	5.363	7.035	11793804	5132316	5.305	5.754
16) A	4,4'-DDD	5.532	7.267	8709008	4106560	4.939	5.718
17) B	Endosulfa...	5.702	7.418	11766144	5062696	5.381	5.817
18) MA	4,4'-DDT	5.970	7.839	8557543	3685446	4.503	4.910
19) B	Endrin Al...	6.362	8.044	9795426	4253041	5.374	5.701
20) B	Endosulfa...	7.088	8.557	10120819	4756886	5.009	5.902
21) A	Methoxychlor	6.838	9.219	5456182	2358927	4.970	5.206
22)	Mirex	6.938	9.507	11963947	5578850	6.014	6.973
23) B	Endrin Ke...	7.554	9.598	11766317	5000620	4.963	5.169

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.3 11

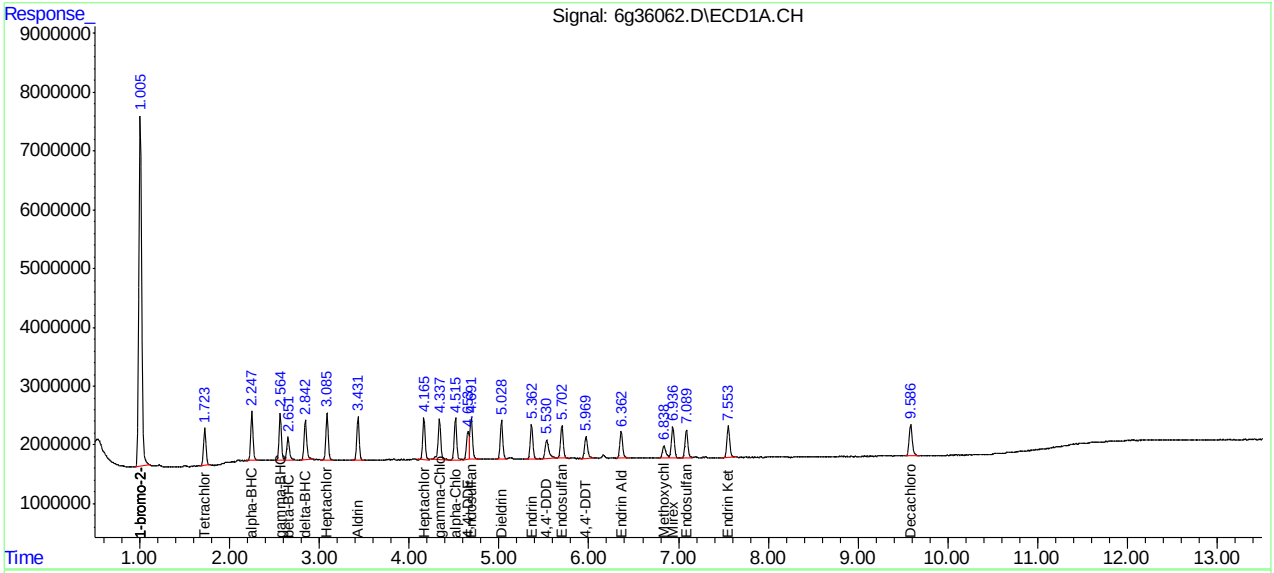
SGS ACCUTEST JC22206

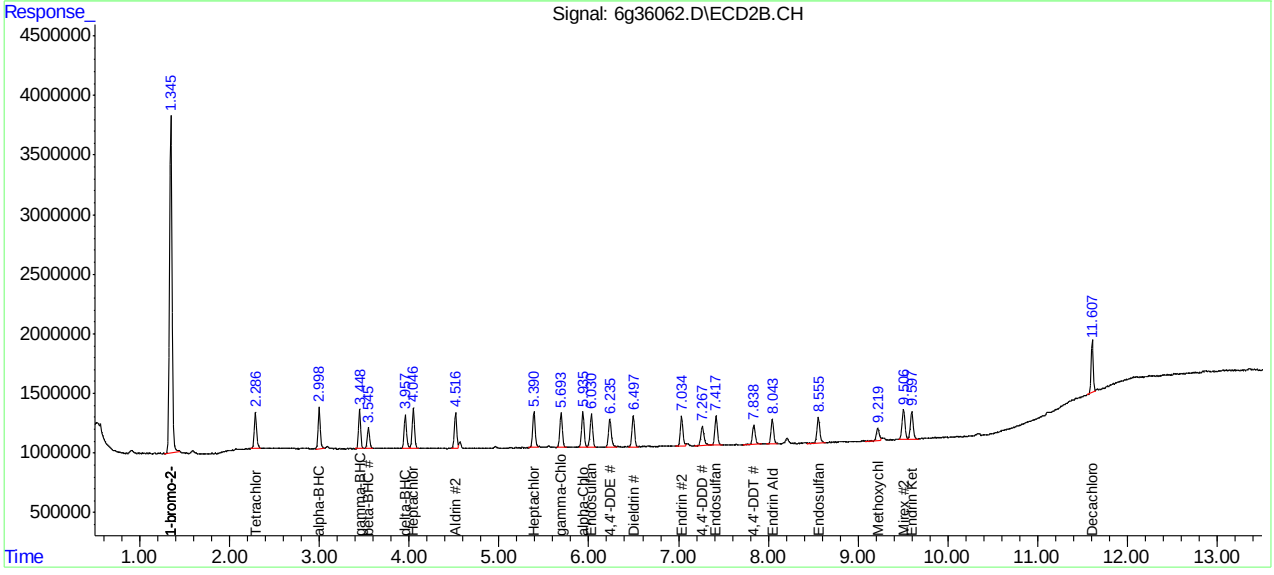
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:27 pm
Operator : dharas
Sample : ic1034-5
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:52:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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:	G6G1034-IC1034	**Method:**	SW846 8081B
Lab FileID:	6G36062.D	**Analyst approved:**	06/13/16 13:38 Rebecca Krug
Injection Time:	06/10/16 17:27	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

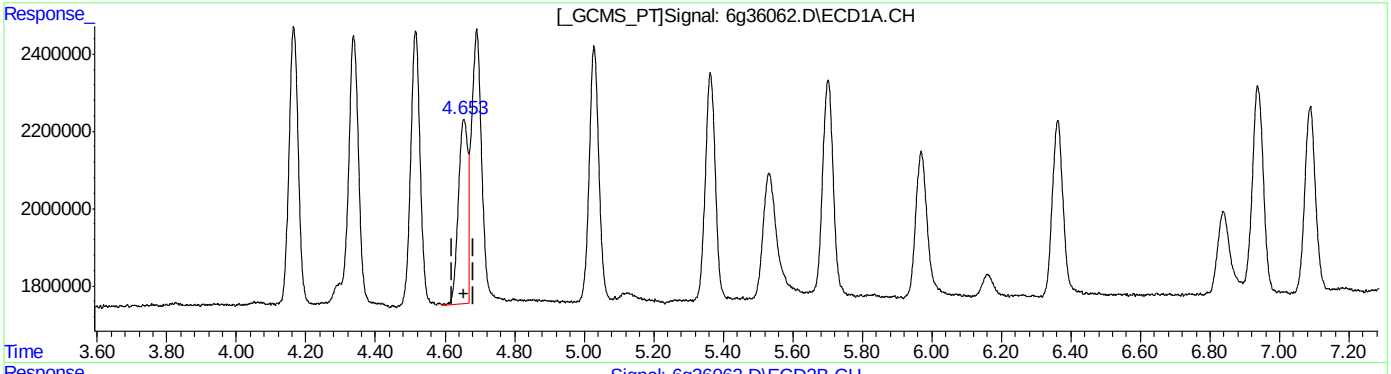
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	2	6.24	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.59	Poorly defined baseline

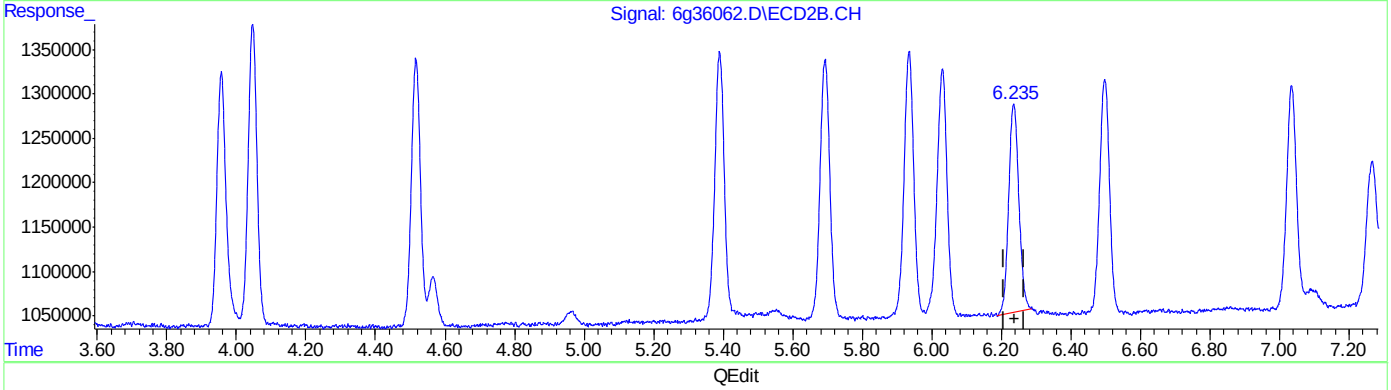
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:27 pm
Operator : dharas
Sample : ic1034-5
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:51:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
4.654min 4.555PPB
response 8993694

(13) 4,4'-DDE #2 (B)
6.236min 5.397PPB
response 4780606

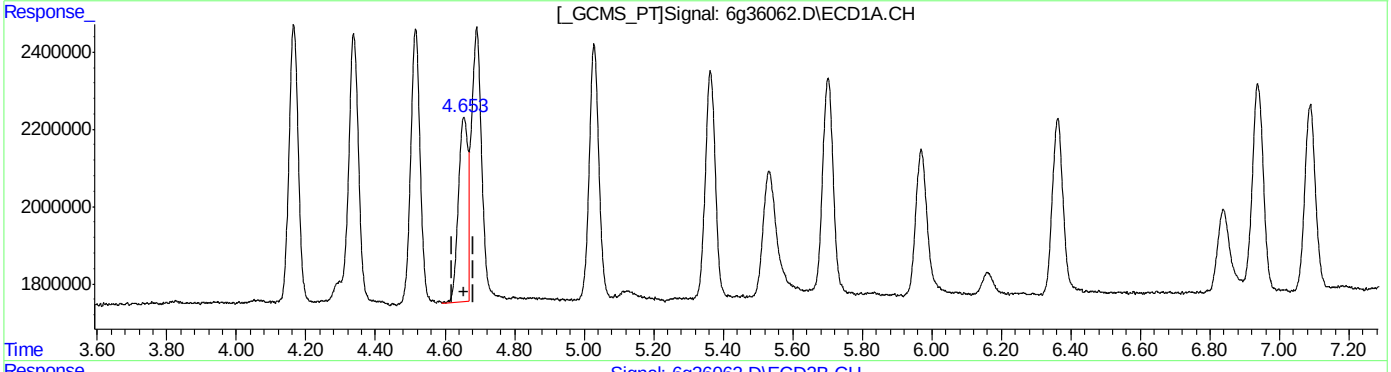
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:51:37 2016

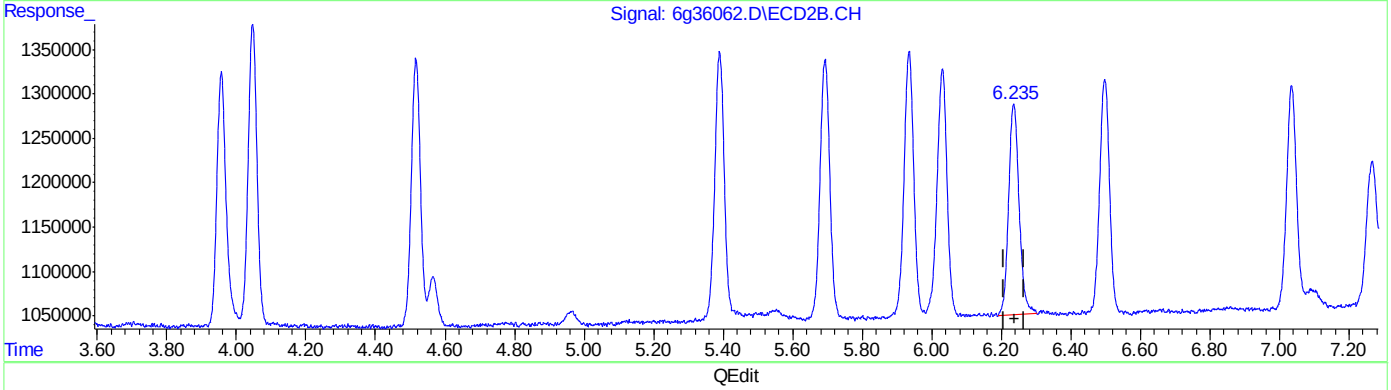
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:27 pm
Operator : dharas
Sample : ic1034-5
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:51:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
4.654min 4.555PPB
response 8993694

(13) 4,4'-DDE #2 (B)
6.235min 5.627PPB m
response 4984696

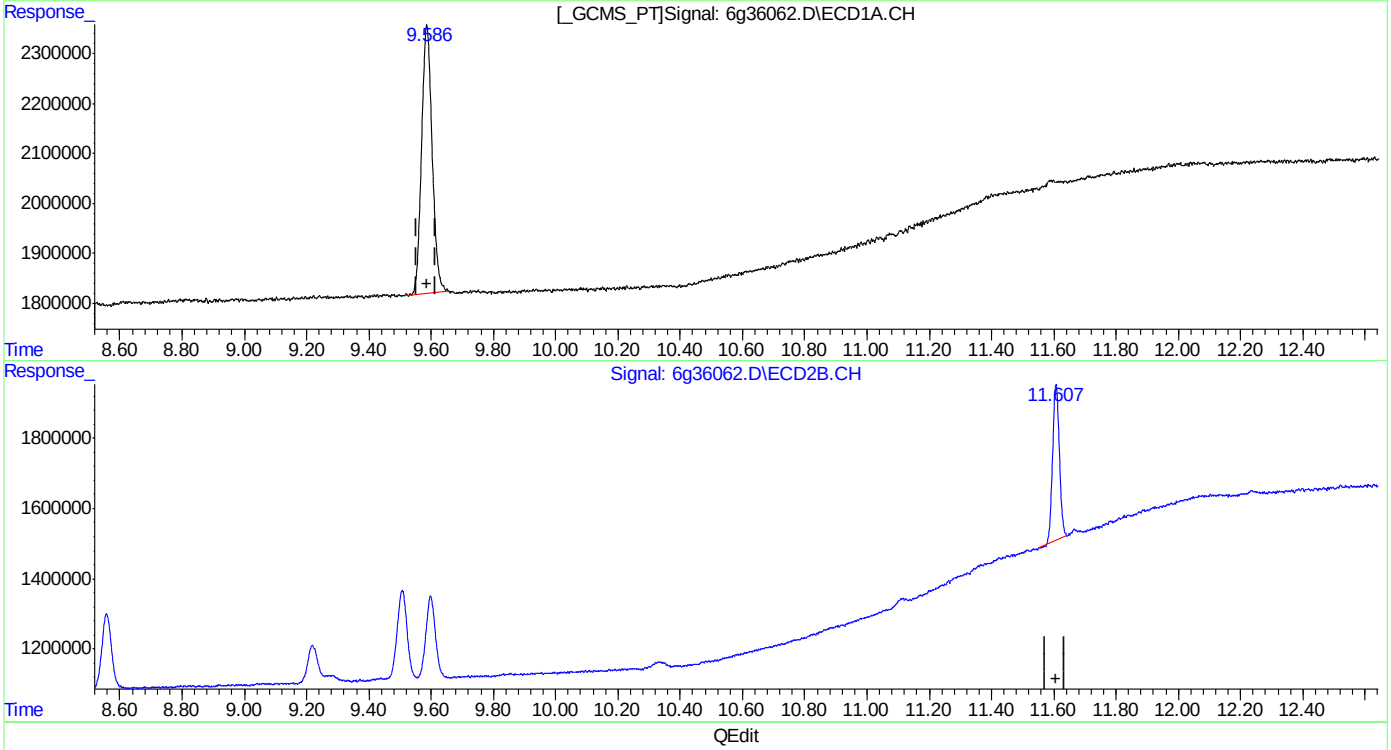
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:51:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:27 pm
Operator : dharas
Sample : ic1034-5
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:51:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
9.586min 5.770PPB
response 12545555

(24) Decachlorobiphenyl #2 (SAB)
11.607min 7.182PPB
response 6771441

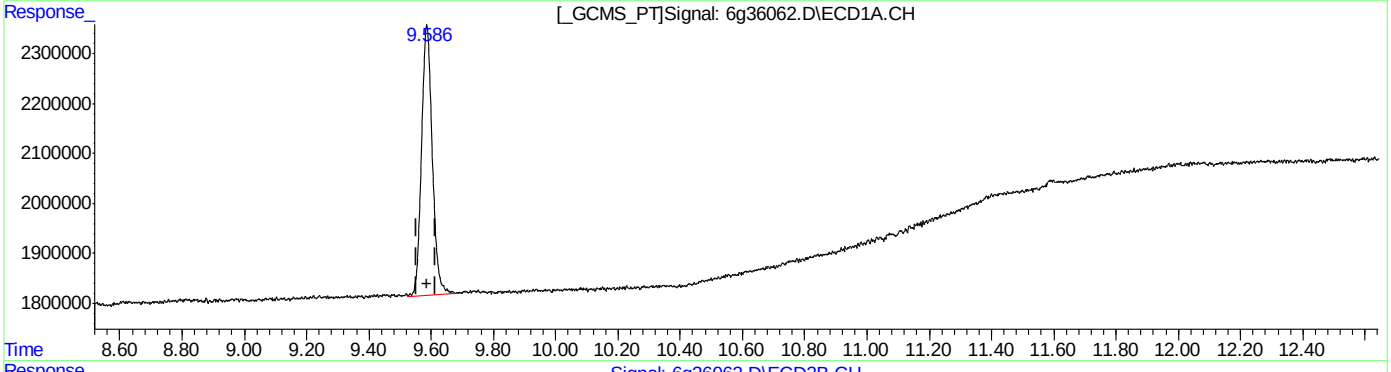
(+) = Expected Retention Time

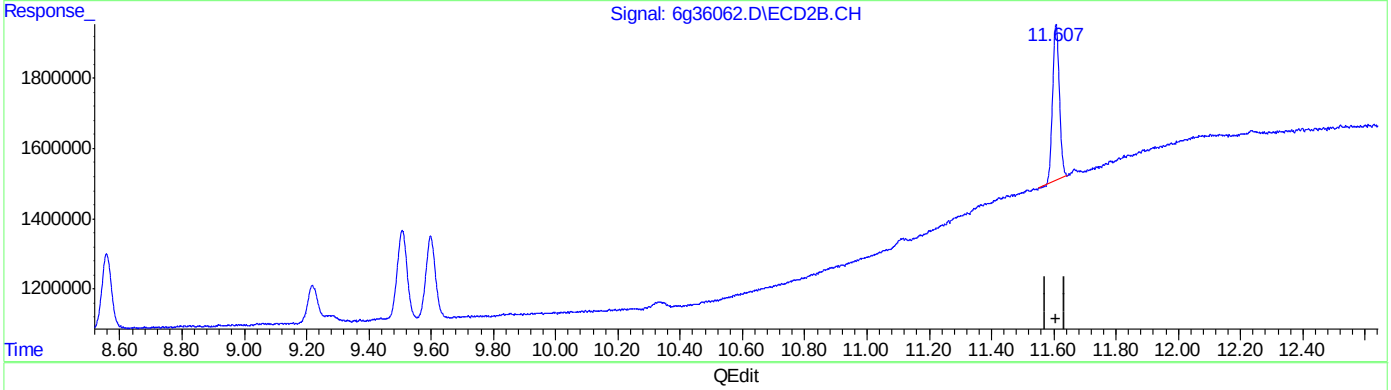
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36062.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:27 pm
Operator : dharas
Sample : ic1034-5
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:51:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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)
9.586min 5.964PPB m
response 12967859

(24) Decachlorobiphenyl #2 (SAB)
11.607min 7.182PPB
response 6771441

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:52:03 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:43 pm
Operator : dharas
Sample : ic1034-10
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:50:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.007	1.346	131.5E6	54714865	50.000	50.000
25) I	1-bromo-2...	1.007	1.346	131.5E6	54714865	50.000	50.000
31) I	1-bromo-2...	1.007	1.346	131.5E6	54714865	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.726	2.289	24054563	10369008	10.614	10.887
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 26.54%#	27.22%#
24)	SAB Decachlor...	9.587	11.608	23980222	12978439	11.070	13.836
	Spiked Amount	40.000			Recovery	= 27.68%	34.59%
	Target Compounds						
3) A	alpha-BHC	2.250	3.000	29712224	11383570	9.792	9.569
4) MA	gamma-BHC	2.566	3.450	28256563	11076832	9.678	9.846
5) MA	Heptachlor	3.087	4.049	28197359	12062801	10.373	11.057
6) B	beta-BHC	2.652	3.547	14796971	6083728	10.351	10.854
7) B	delta-BHC	2.845	3.959	26467881	10227213	10.122	9.459
8) MB	Aldrin	3.432	4.518	26417440	11403348	10.631	11.178
9) B	Heptachlo...	4.168	5.392	25809556	11180899	11.178	11.154
10) B	gamma-Chl...	4.340	5.695	26507174	11394051	11.564	11.945
11) B	alpha-Chl...	4.518	5.938	26177408	11562857	11.073	12.014
12) A	Endosulfan I	4.693	6.033	28027254	10696840	11.761	11.630
13) B	4,4'-DDE	4.656	6.238	17976878	9901664	9.139	11.234
14) MA	Dieldrin	5.032	6.499	24615296	10598612	10.541	11.277
15) MA	Endrin	5.365	7.037	23057464	9640564	10.410	10.863
16) A	4,4'-DDD	5.534	7.267	18310997	7867309	10.423	11.010
17) B	Endosulfa...	5.703	7.421	23806761	10359506	10.929	11.964
18) MA	4,4'-DDT	5.972	7.843	17185927	7224976	9.077	9.675
19) B	Endrin Al...	6.363	8.047	18742582	8485376	10.321	11.432
20) B	Endosulfa...	7.090	8.560	19811368	9070062	9.842	11.311
21) A	Methoxychlor	6.841	9.222	10579095	4834755	9.672	10.725
22)	Mirex	6.940	9.509	22786425	10905916	11.498	13.700
23) B	Endrin Ke...	7.556	9.600	22956073	9874139	9.719	10.258

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

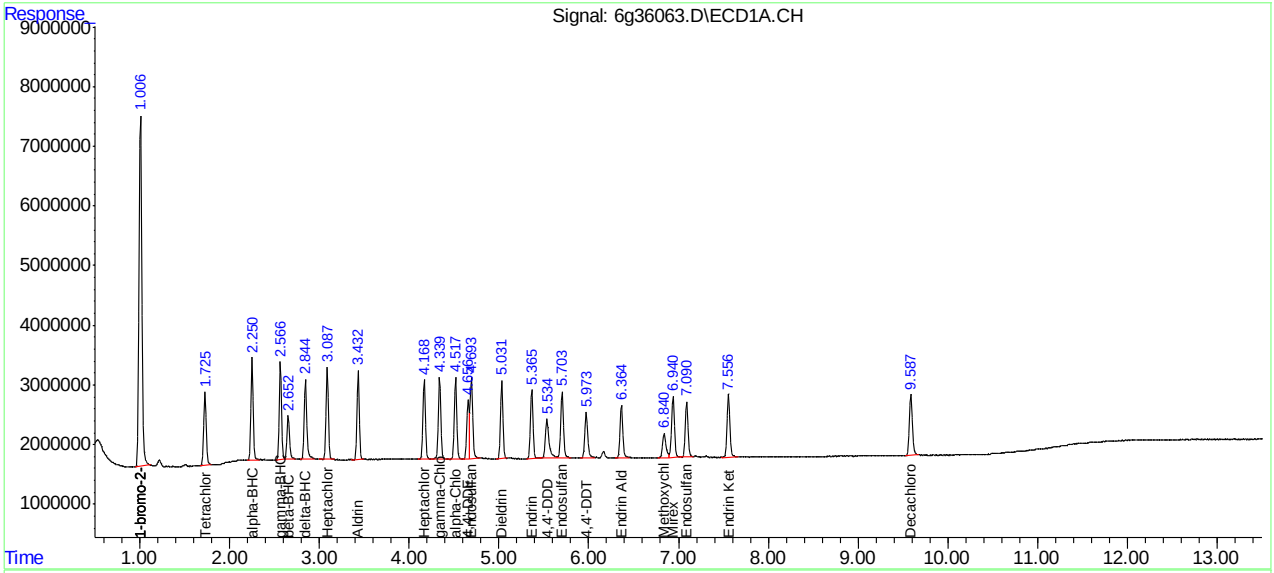
SGS ACCUTEST JC22206

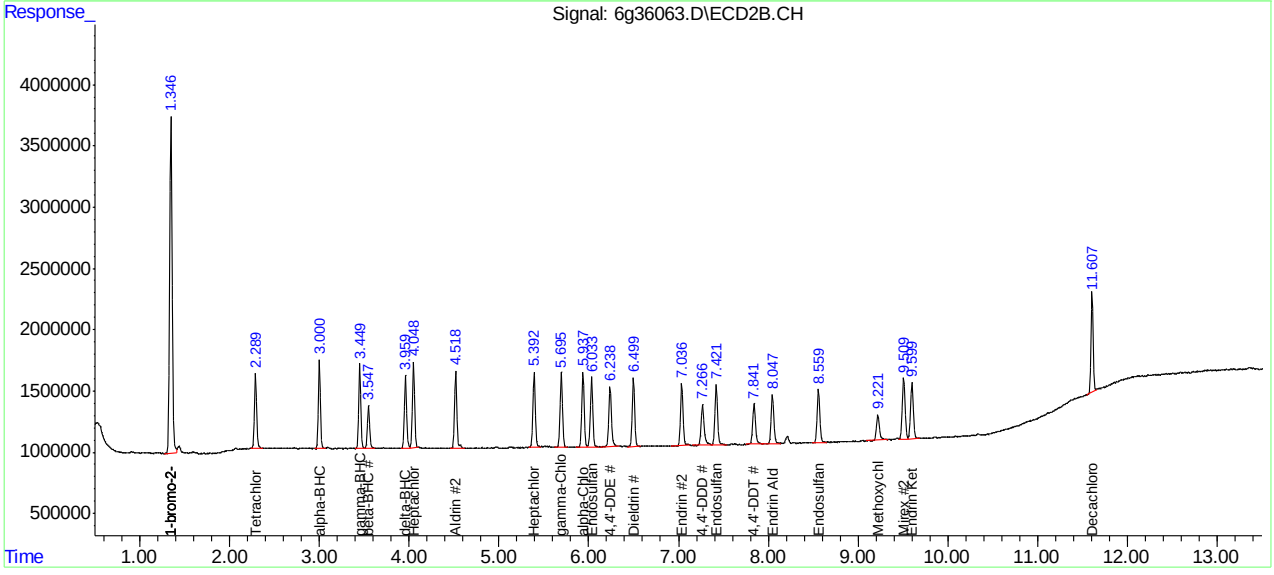
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36063.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:43 pm
Operator : dharas
Sample : ic1034-10
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:50:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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\1034\
Data File : 6g36064.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:59 pm
Operator : dharas
Sample : icc1034-25
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:46:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.006	1.346	135.2E6	55250352	50.000	50.000	
25) I	1-bromo-2...	1.006	1.346	135.2E6	55250352	50.000	50.000	
31) I	1-bromo-2...	1.006	1.346	135.2E6	55250352	50.000	50.000	
	System Monitoring Compounds							
2)	SAB Tetrachlo...	1.725	2.288	60648721	26773159	26.038	27.839	
	Spiked Amount	40.000	Range	30 - 150	Recovery	=	65.09%	69.60%
24)	SAB Decachlor...	9.586	11.606	59072012	32015962	26.533	33.800	#
	Spiked Amount	40.000			Recovery	=	66.33%	84.50%
	Target Compounds							
3) A	alpha-BHC	2.249	2.999	81441069	32106941	26.113	26.728	
4) MA	gamma-BHC	2.566	3.450	76364743	30661751	25.447	26.991	
5) MA	Heptachlor	3.087	4.048	73983200	32228682	26.479	29.256	
6) B	beta-BHC	2.652	3.547	36707842	15820080	24.985	27.950	
7) B	delta-BHC	2.843	3.958	72861802	28967676	27.111	26.533	
8) MB	Aldrin	3.433	4.519	70574960	30478150	27.633	29.585	
9) B	Heptachlo...	4.167	5.391	67048068	29883028	28.254	29.523	
10) B	gamma-Chl...	4.339	5.695	67891075	30283358	28.818	31.441	
11) B	alpha-Chl...	4.517	5.937	67113880	30692395	27.622	31.581	
12) A	Endosulfan I	4.693	6.032	71691069	28528866	29.270	30.716	
13) B	4,4'-DDE	4.656	6.237	49999759	26775803	24.731	30.085	
14) MA	Dieldrin	5.031	6.499	65401338	28563625	27.251	30.097	
15) MA	Endrin	5.364	7.037	60014692	26730916	26.364	29.830	
16) A	4,4'-DDD	5.531	7.265	47824007	21156248	26.487	29.320	
17) B	Endosulfa...	5.702	7.420	61311504	26815521	27.386	30.670	
18) MA	4,4'-DDT	5.971	7.841	45864776	20049409	23.568	26.587	
19) B	Endrin Al...	6.363	8.047	49134949	22948059	26.325	30.618	
20) B	Endosulfa...	7.089	8.559	51564754	24000900	24.923	29.641	
21) A	Methoxychlor	6.837	9.221	26643861	12982952	23.701	28.521	
22)	Mirex	6.939	9.508	55880843	28256910	27.435	35.153	#
23) B	Endrin Ke...	7.556	9.600	60477688	27255364	24.912	28.040	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.5 11

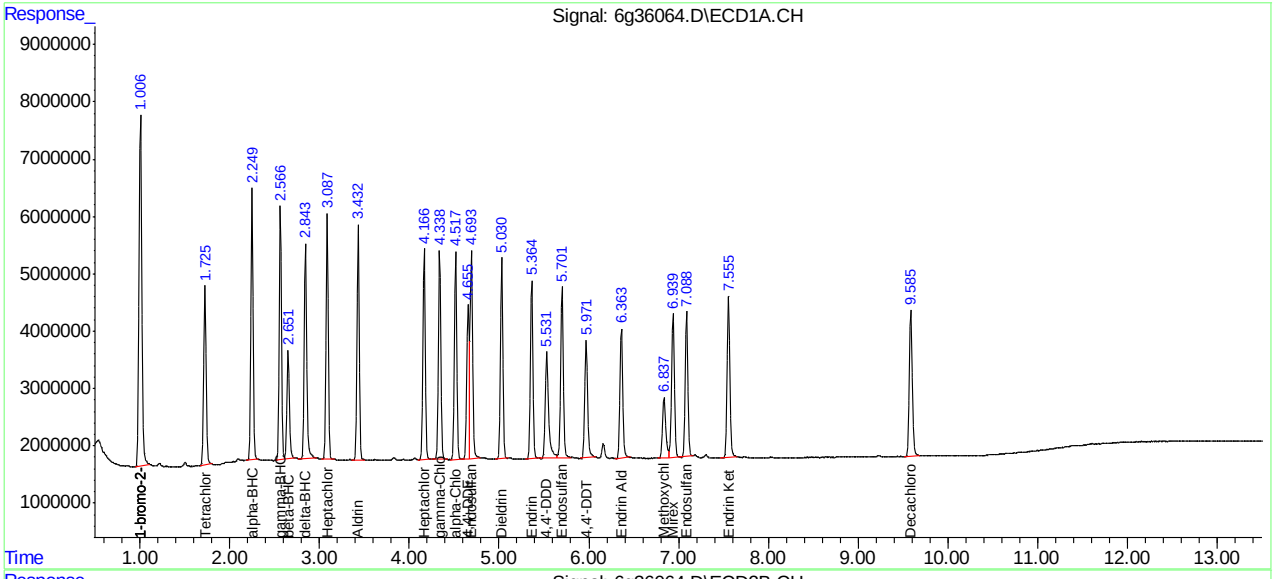
SGS ACCUTEST JC22206

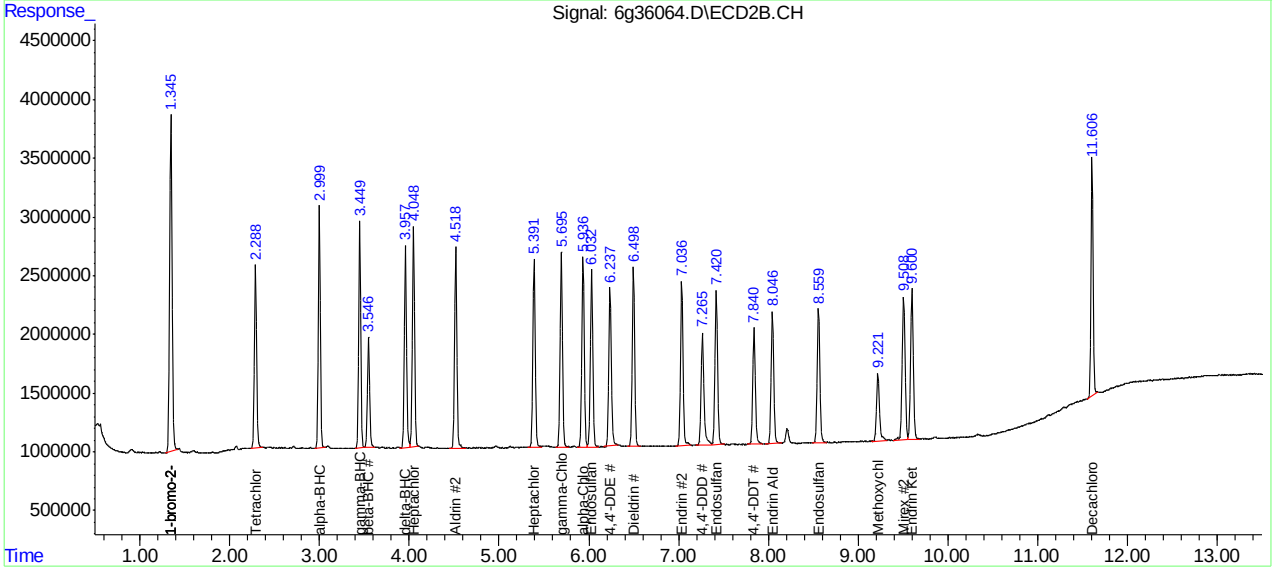
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36064.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 5:59 pm
Operator : dharas
Sample : icc1034-25
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:46:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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\1034\
Data File : 6g36065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 6:16 pm
Operator : dharas
Sample : ic1034-50
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:44:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.007	1.345	135.4E6	55346645	50.000	50.000	
25) I	1-bromo-2...	1.007	1.345	135.4E6	55346645	50.000	50.000	
31) I	1-bromo-2...	1.007	1.345	135.4E6	55346645	50.000	50.000	
	System Monitoring Compounds							
2)	SAB Tetrachlo...	1.726	2.289	127.1E6	55486784	54.476	57.595	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 136.19%	143.99%	
24)	SAB Decachlor...	9.588	11.606	115.6E6	63280118	51.838	66.689	#
	Spiked Amount	40.000			Recovery	= 129.60%	166.72%	
	Target Compounds							
3) A	alpha-BHC	2.250	3.001	180.7E6	73910192	57.865	61.421	
4) MA	gamma-BHC	2.566	3.451	165.9E6	69166180	55.211	60.780	
5) MA	Heptachlor	3.087	4.049	157.4E6	70446066	56.249	63.837	
6) B	beta-BHC	2.652	3.547	74758170	33109649	50.809	58.395	
7) B	delta-BHC	2.844	3.959	162.6E6	65790492	60.422	60.156	
8) MB	Aldrin	3.433	4.519	152.4E6	66947696	59.573	64.873	
9) B	Heptachlo...	4.167	5.391	140.8E6	63775590	59.248	62.898	
10) B	gamma-Chl...	4.340	5.696	142.6E6	65238188	60.449	67.614	
11) B	alpha-Chl...	4.518	5.938	140.9E6	65650052	57.890	67.434	
12) A	Endosulfan I	4.694	6.034	150.1E6	60378549	61.181	64.894	
13) B	4,4'-DDE	4.655	6.238	110.5E6	58144337	54.587	65.217	
14) MA	Dieldrin	5.032	6.501	140.5E6	62342277	58.458	65.574	
15) MA	Endrin	5.364	7.038	128.1E6	56711864	56.199	63.176	
16) A	4,4'-DDD	5.531	7.267	101.8E6	44721606	56.317	61.871	
17) B	Endosulfa...	5.704	7.421	127.3E6	55962201	56.791	63.894	
18) MA	4,4'-DDT	5.970	7.841	100.1E6	44959589	51.366	59.517	
19) B	Endrin Al...	6.363	8.047	100.6E6	47265570	53.817	62.953	
20) B	Endosulfa...	7.089	8.560	107.6E6	50216321	51.924	61.908	
21) A	Methoxychlor	6.837	9.220	55847557	26730758	49.606	58.619	
22)	Mirex	6.940	9.509	109.1E6	54352622	53.484	67.499	#
23) B	Endrin Ke...	7.556	9.601	125.7E6	57530390	51.710	59.084	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

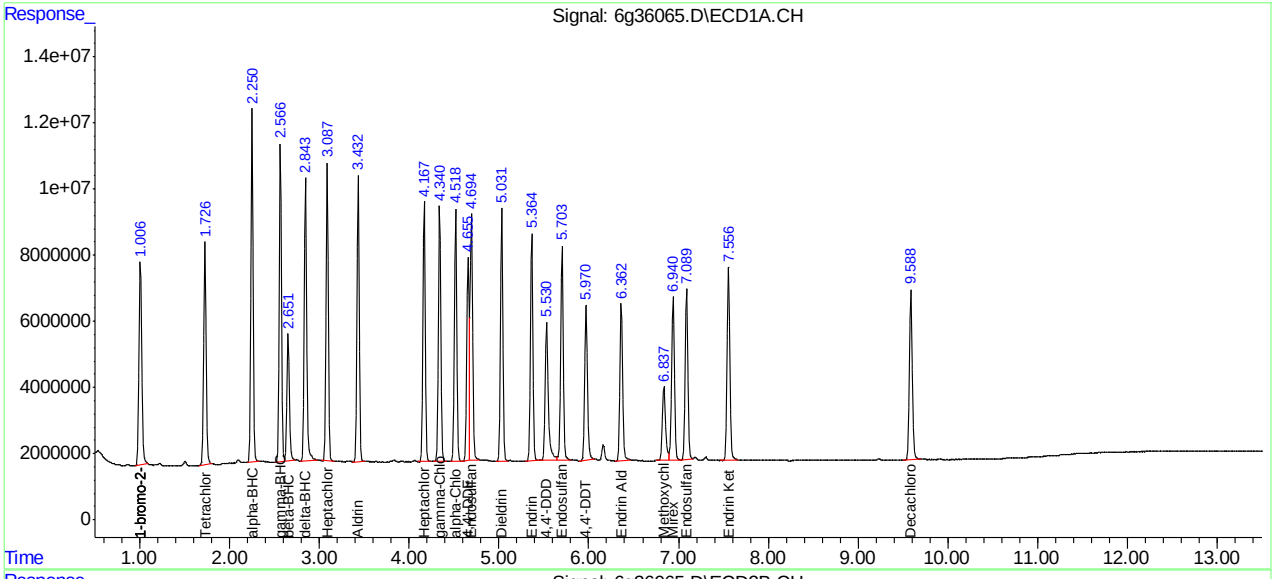
SGS ACCUTEST JC22206

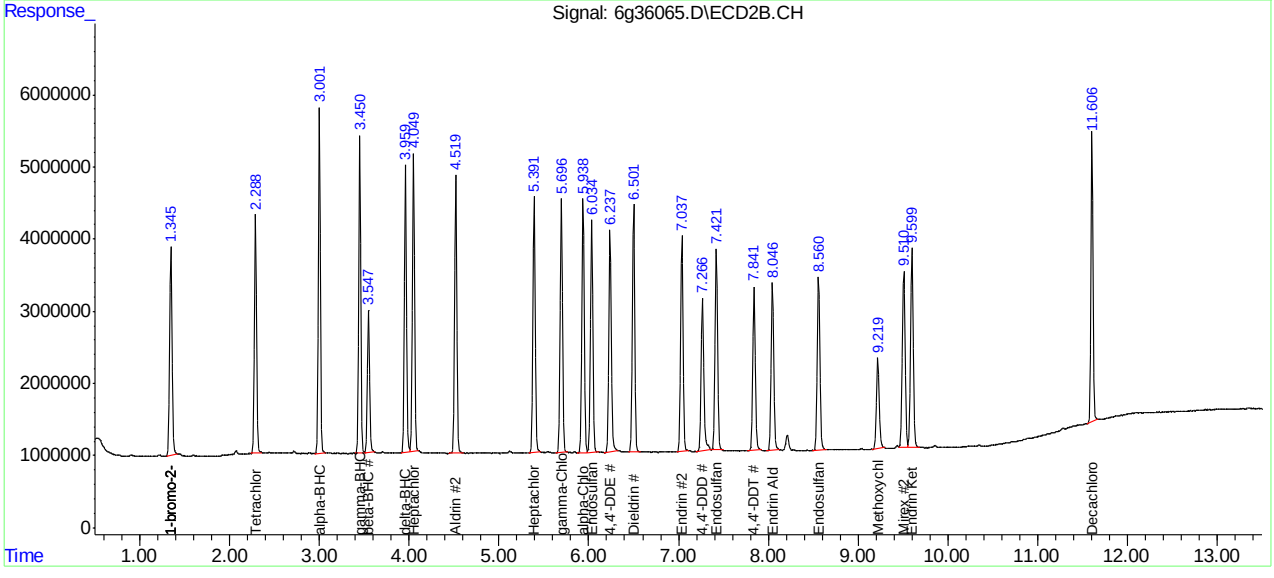
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36065.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 6:16 pm
Operator : dharas
Sample : ic1034-50
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:44:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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\1034\
Data File : 6g36066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 6:32 pm
Operator : dharas
Sample : ic1034-75
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:43:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.004	1.344	133.4E6	54197675	50.000	50.000	
25) I	1-bromo-2...	1.004	1.344	133.4E6	54197675	50.000	50.000	
31) I	1-bromo-2...	1.004	1.344	133.4E6	54197675	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	1.724	2.288	187.8E6	81257992	81.686	86.134	
Spiked Amount		40.000 Range	30 - 150	Recovery	=	204.22%#	215.34%#	
24) SAB	Decachlor...	9.586	11.605	168.2E6	91961938	76.559	98.971	#
Spiked Amount		40.000		Recovery	=	191.40%	247.43%	
	Target Compounds							
3) A	alpha-BHC	2.249	2.999	273.6E6	113.3E6	88.859	96.180	
4) MA	gamma-BHC	2.565	3.450	250.1E6	105.1E6	84.423	94.318	
5) MA	Heptachlor	3.087	4.049	235.3E6	105.8E6	85.334	97.867	
6) B	beta-BHC	2.651	3.546	109.1E6	48382579	75.250	87.141	
7) B	delta-BHC	2.843	3.958	243.3E6	100.4E6	91.715	93.740	
8) MB	Aldrin	3.432	4.519	228.1E6	101.1E6	90.494	100.039	
9) B	Heptachlo...	4.166	5.391	208.5E6	95221720	88.996	95.902	
10) B	gamma-Chl...	4.339	5.695	212.8E6	97441255	91.517	103.131	
11) B	alpha-Chl...	4.516	5.936	209.1E6	97359540	87.191	102.126	
12) A	Endosulfan I	4.693	6.032	217.7E6	89834796	90.034	98.600	
13) B	4,4'-DDE	4.654	6.237	173.1E6	88234720	86.731	101.066	
14) MA	Dieldrin	5.032	6.499	211.5E6	94362957	89.271	101.359	
15) MA	Endrin	5.365	7.036	191.1E6	85098349	85.051	96.808	
16) A	4,4'-DDD	5.528	7.265	152.8E6	69443245	85.756	98.110	
17) B	Endosulfa...	5.703	7.421	190.9E6	85146018	86.372	99.275	
18) MA	4,4'-DDT	5.968	7.840	155.0E6	70839163	80.704	95.764	
19) B	Endrin Al...	6.362	8.046	148.0E6	69348487	80.323	94.324	
20) B	Endosulfa...	7.089	8.559	160.7E6	74908697	78.708	94.308	
21) A	Methoxychlor	6.834	9.220	82979351	40158686	74.779	89.933	
22)	Mirex	6.939	9.508	158.6E6	80662196	78.869	102.295	#
23) B	Endrin Ke...	7.555	9.600	188.7E6	86668294	78.760	90.896	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.7 11

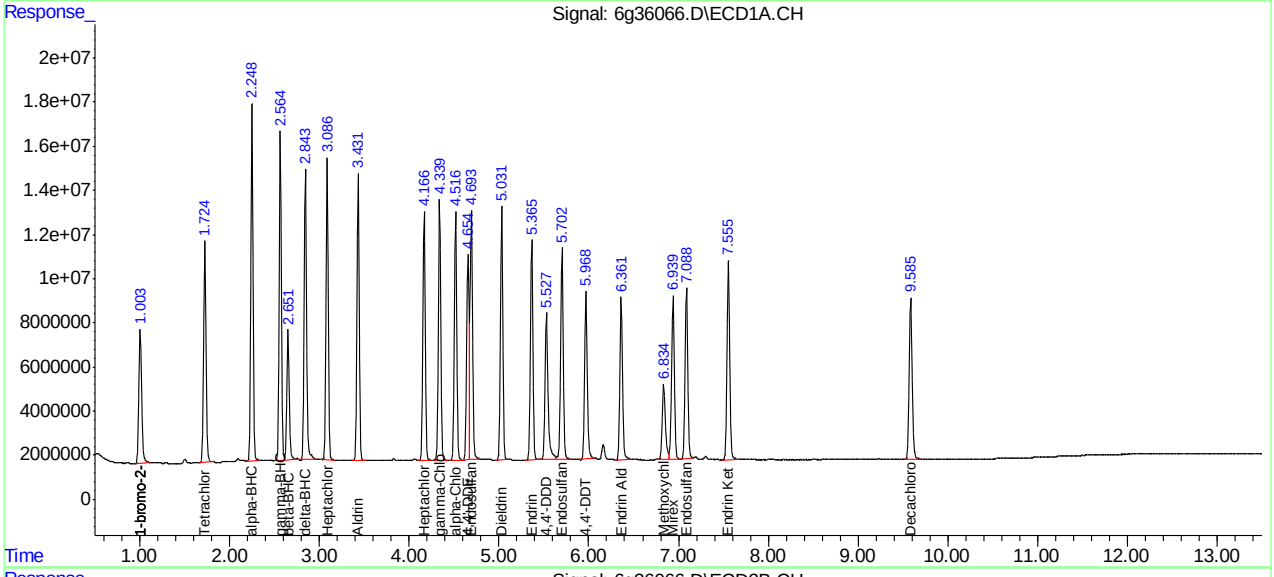
SGS ACCUTEST JC22206

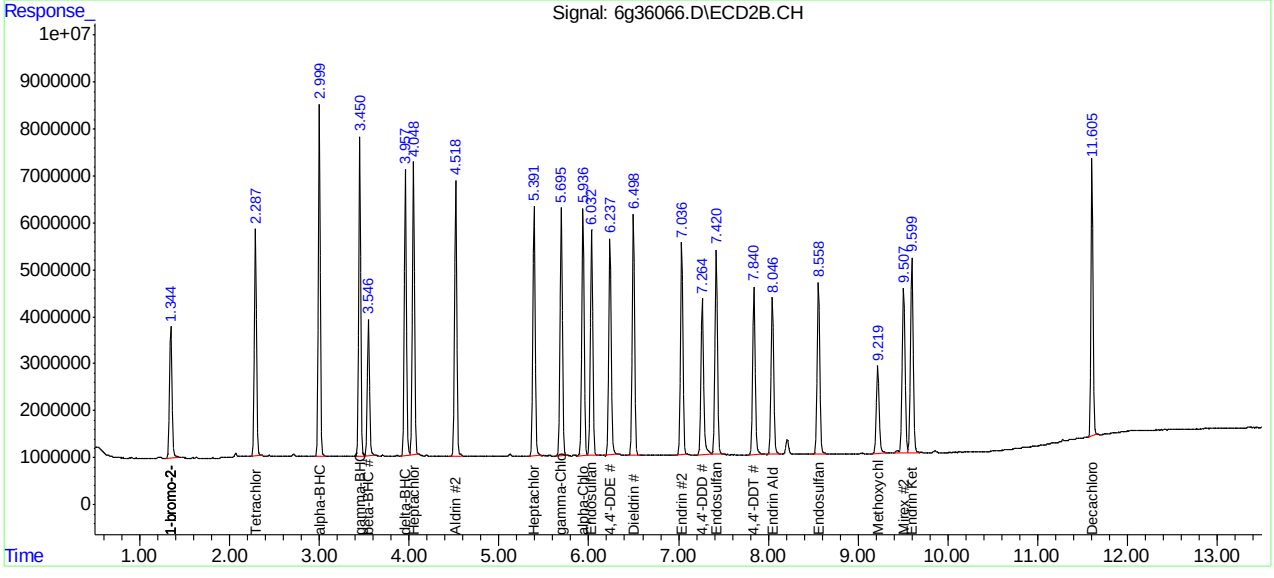
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36066.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 6:32 pm
Operator : dharas
Sample : ic1034-75
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:43:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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\1034\
Data File : 6g36067.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 6:49 pm
Operator : dharas
Sample : ic1034-100
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:44:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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...	1.006	1.345	130.6E6	53293530	50.000	50.000	
25) I	1-bromo-2...	1.006	1.345	130.6E6	53293530	50.000	50.000	
31) I	1-bromo-2...	1.006	1.345	130.6E6	53293530	50.000	50.000	
	System Monitoring Compounds							
2)	SAB Tetrachlo...	1.725	2.289	255.6E6	112.0E6	113.571	120.747	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 283.93%#	301.87%#	
24)	SAB Decachlor...	9.586	11.605	222.7E6	121.5E6	103.523	132.929	#
	Spiked Amount	40.000			Recovery	= 258.81%	332.32%	
	Target Compounds							
3) A	alpha-BHC	2.249	3.000	384.1E6	162.1E6	127.452	139.879	
4) MA	gamma-BHC	2.565	3.451	347.3E6	149.0E6	119.769	135.953	
5) MA	Heptachlor	3.087	4.050	325.2E6	149.6E6	120.465	140.742	
6) B	beta-BHC	2.651	3.547	147.7E6	66724089	104.007	122.215	
7) B	delta-BHC	2.843	3.958	343.0E6	142.9E6	132.062	135.664	
8) MB	Aldrin	3.432	4.519	316.8E6	143.6E6	128.371	144.495	
9) B	Heptachlo...	4.167	5.391	286.7E6	133.3E6	125.032	136.553	
10) B	gamma-Chl...	4.339	5.695	294.2E6	137.1E6	129.254	147.568	
11) B	alpha-Chl...	4.518	5.937	288.0E6	136.5E6	122.656	145.655	
12) A	Endosulfan I	4.693	6.033	301.4E6	125.4E6	127.351	139.947	
13) B	4,4'-DDE	4.654	6.238	242.1E6	124.0E6	123.946	144.497	
14) MA	Dieldrin	5.031	6.500	292.4E6	133.0E6	126.100	145.274	
15) MA	Endrin	5.365	7.037	263.6E6	119.4E6	119.849	138.106	
16) A	4,4'-DDD	5.529	7.265	210.1E6	97459731	120.395	140.028	
17) B	Endosulfa...	5.702	7.420	259.5E6	117.3E6	119.950	139.069	
18) MA	4,4'-DDT	5.970	7.841	217.8E6	100.8E6	115.845	138.576	
19) B	Endrin Al...	6.363	8.047	200.6E6	94859842	111.210	131.212	
20) B	Endosulfa...	7.089	8.559	219.0E6	102.7E6	109.554	131.436	
21) A	Methoxychlor	6.835	9.220	112.0E6	54968854	103.121	125.188	
22)	Mirex	6.939	9.509	211.7E6	107.9E6	107.541	139.155	#
23) B	Endrin Ke...	7.556	9.601	256.0E6	118.9E6	109.145	126.850	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.8 11

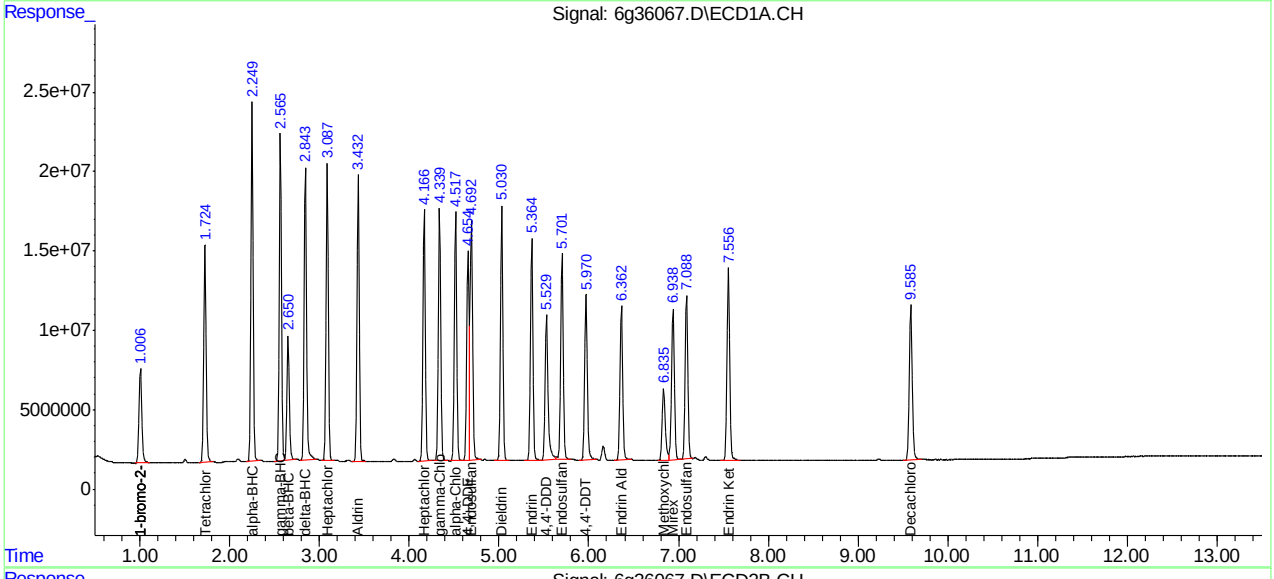
SGS ACCUTEST JC22206

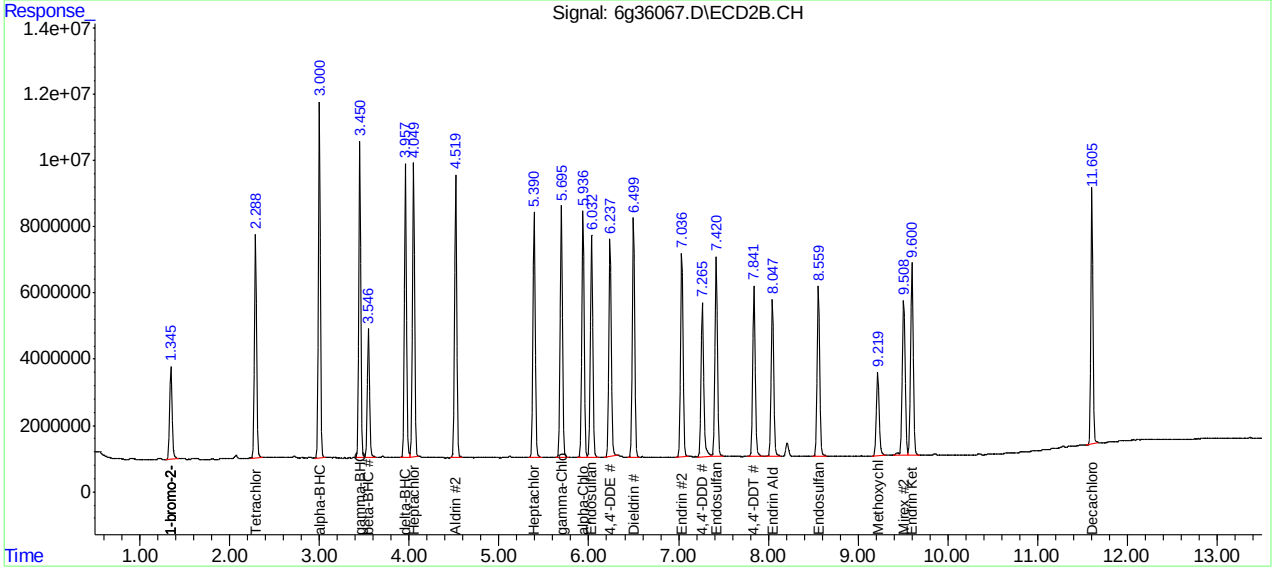
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36067.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 6:49 pm
Operator : dharas
Sample : ic1034-100
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:44:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:43:41 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
06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36068.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:05 pm
Operator : dharas
Sample : ic1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:58:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:57:31 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...	1.005	1.345	126.2E6	52373229	50.000	50.000
25) I	1-bromo-2...	1.005	1.345	126.2E6	52373229	50.000	50.000
31) I	1-bromo-2...	1.005	1.345	126.2E6	52373229	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.725	2.288	132.9E6	57723645	61.092	63.319
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 152.73%#	158.30%#
24)	SAB Decachlor...	9.586	11.604	119.6E6	65181261	57.516	72.593 #
	Spiked Amount	40.000			Recovery	= 143.79%	181.48%
	Target Compounds						
32)	Chlordane...	2.992	3.843	44264757	19096864	580.135	621.330
33)	Chlordane...	3.583	4.732	62590289	25516613	591.521	665.738
34)	Chlordane...	4.339	5.694	195.6E6	83891320	557.120	676.471
35)	Chlordane...	4.509	5.935	286.6E6	138.4E6	515.065	678.220m#
36)	Chlordane...	5.609	7.503	47079391	19251577	547.998	593.776

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

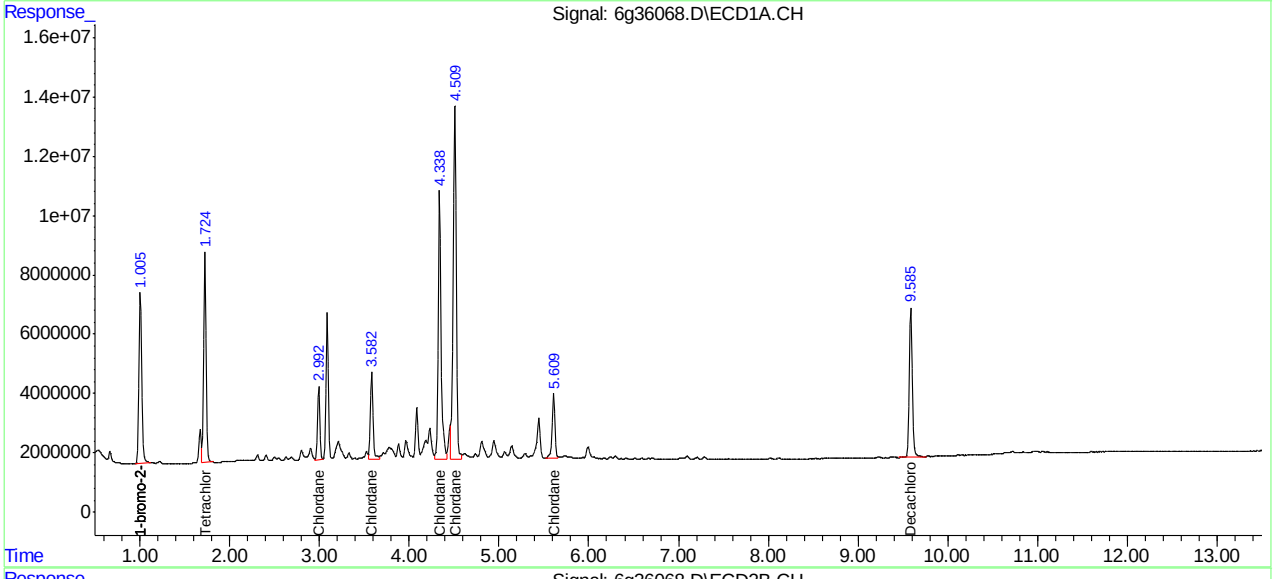
11.6.9 11

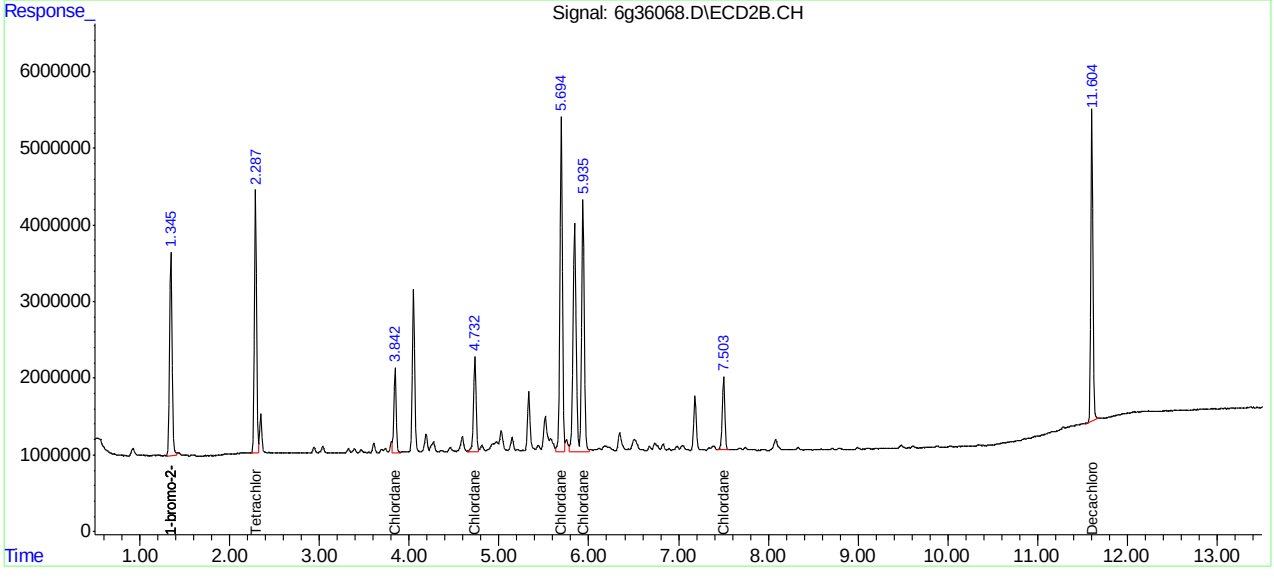
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36068.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:05 pm
Operator : dharas
Sample : ic1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:58:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:57:31 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 JC22206

Manual Integration Approval Summary

Sample Number:	G6G1034-IC1034	**Method:**	SW846 8081B
Lab FileID:	6G36068.D	**Analyst approved:**	06/13/16 13:38 Rebecca Krug
Injection Time:	06/10/16 19:05	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

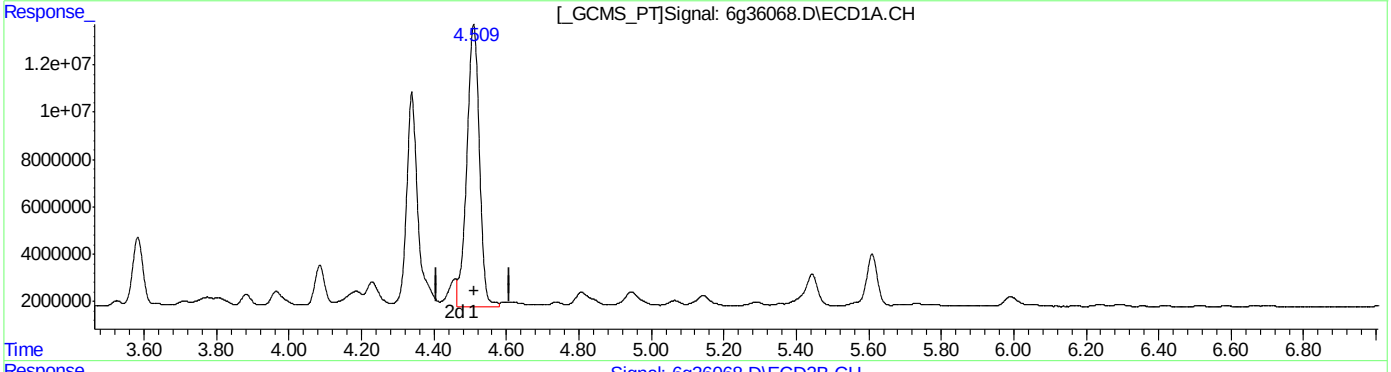
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.93	Split peak

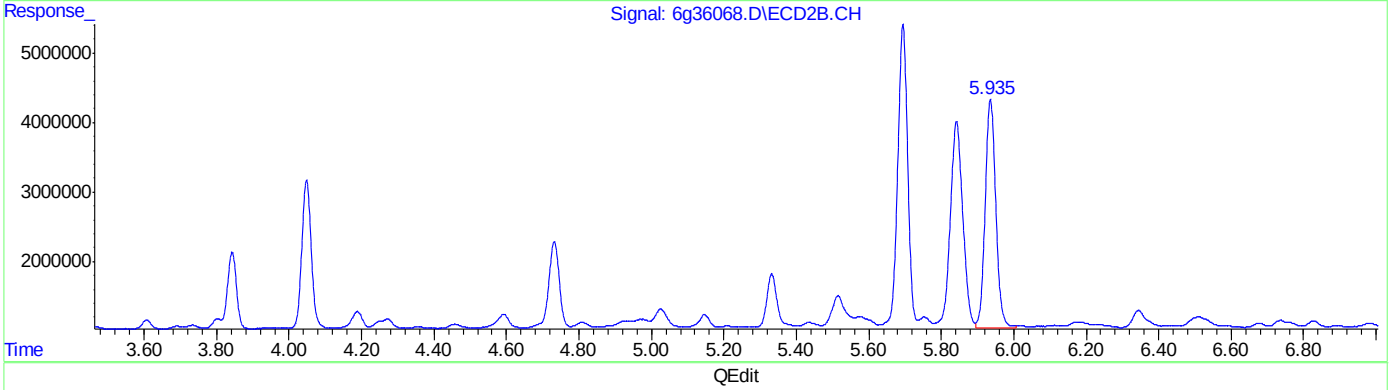
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36068.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:05 pm
Operator : dharas
Sample : ic1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:57:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:57:31 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}
4.509min 515.065PPB
response 286600387

(35) Chlordane {D} #2
5.935min 327.592PPB
response 66852112

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:57:52 2016

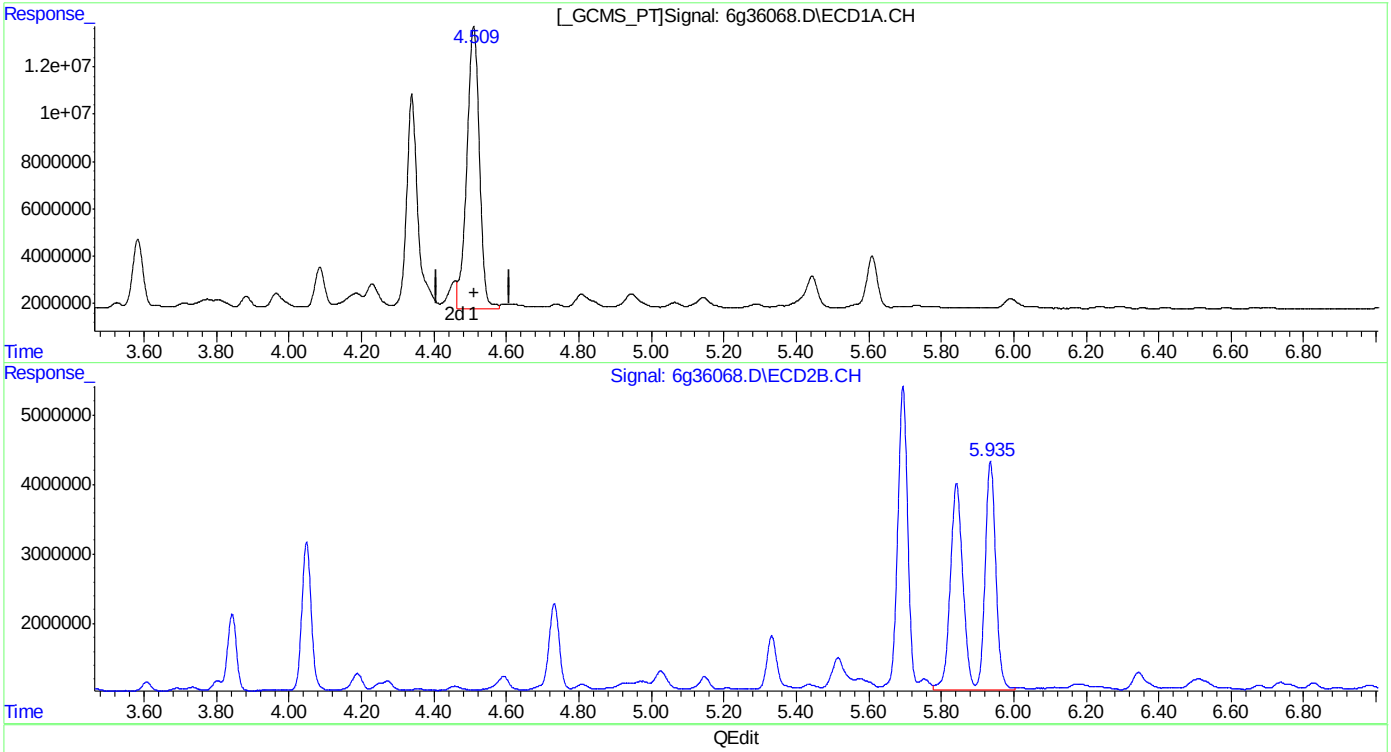
SGS ACCUTEST JC22206

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36068.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:05 pm
Operator : dharas
Sample : ic1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:57:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:57:31 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}
4.509min 515.065PPB
response 286600387

(35) Chlordane {D} #2
5.935min 678.220PPB m
response 138405206

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 11:58:04 2016

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36069.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:22 pm
Operator : dharas
Sample : ic1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:59:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:59:40 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...	1.006	1.345	126.2E6	51635762	50.000	50.000
25) I	1-bromo-2...	1.006	1.345	126.2E6	51635762	50.000	50.000
31) I	1-bromo-2...	1.006	1.345	126.2E6	51635762	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.724	2.288	127.4E6	55885643	58.588	62.178
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 146.47%	155.44%#
24) SAB	Decachlor...	9.586	11.604	117.8E6	63306681	56.681	71.512 #
	Spiked Amount	40.000			Recovery	= 141.70%	178.78%
	Target Compounds						
26) L8	Toxaphene{A}	5.040	6.463	18478393	12101451	503.536	587.559
27) L8	Toxaphene{B}	5.424	7.388	50282105	15656441	709.842	579.900
28) L8	Toxaphene{C}	5.690	7.567	57174492	25105923	515.156	629.542
29) L8	Toxaphene{D}	6.246	8.048	51202700	15629135	851.108	500.339 #
30) L8	Toxaphene{E}	6.927	9.024	36943922	13170894	550.151	593.403
	SemiQuant Compounds - Not Calibrated on this Instrument						

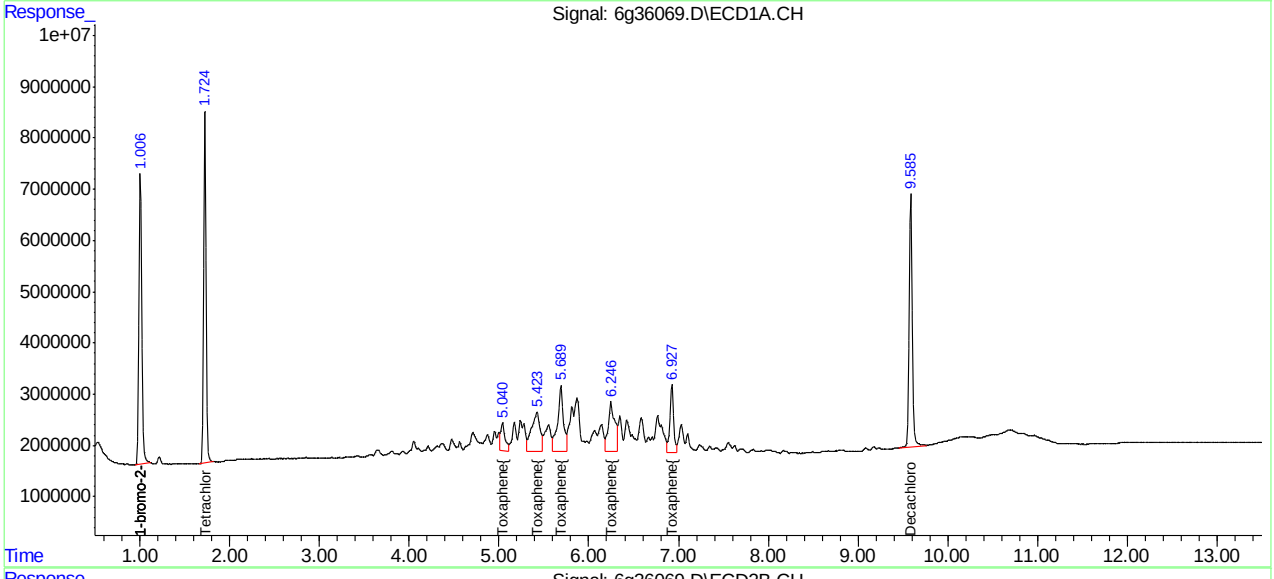
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

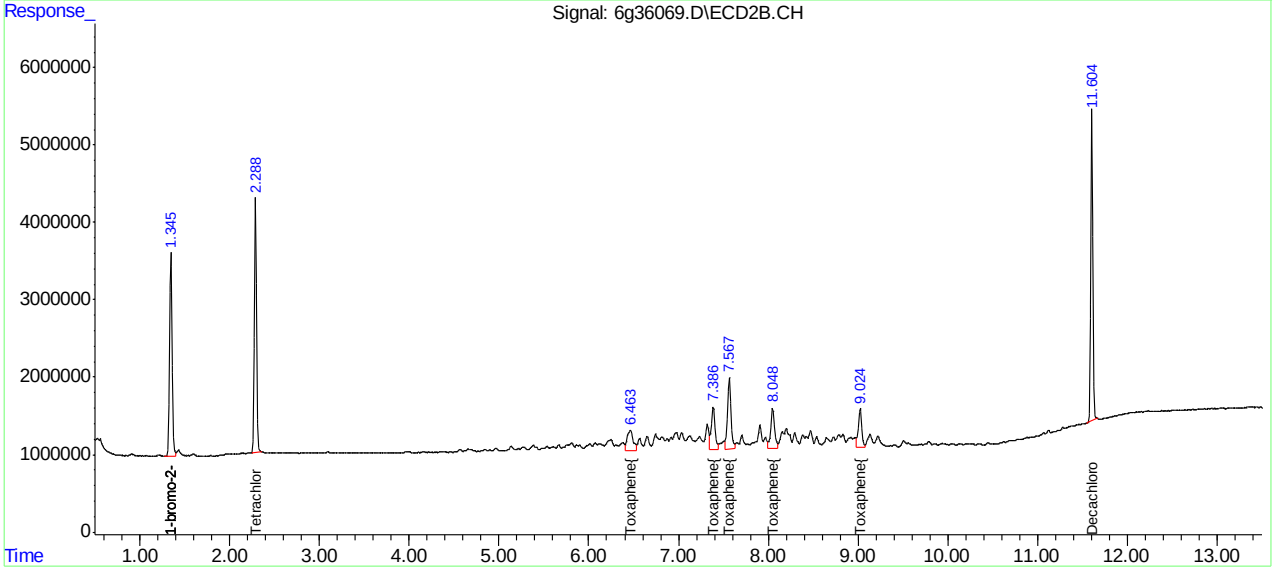
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36069.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:22 pm
Operator : dharas
Sample : ic1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 11:59:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 11:59:40 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 JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36070.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:38 pm
Operator : dharas
Sample : icv1034-25
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:39:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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...	1.004	1.344	136.2E6	56098689	50.000	50.000
25) I	1-bromo-2...	1.004	1.344	136.2E6	56098689	50.000	50.000
31) I	1-bromo-2...	1.004	1.344	136.2E6	56098689	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.724	2.287	58163612	25510328	22.514	22.467
Spiked Amount		40.000 Range	30 - 150	Recovery	=	56.28%	56.17%
24) SAB	Decachlor...	9.590	11.604	57510206	31303018	22.686	22.929
Spiked Amount		40.000		Recovery	=	56.72%	57.32%
	Target Compounds						
3) A	alpha-BHC	2.248	2.999	75035923	28814099	22.073	21.011
4) MA	gamma-BHC	2.565	3.450	70083133	27942504	22.162	21.754
5) MA	Heptachlor	3.087	4.048	68925899	29671731	22.011	22.005
6) B	beta-BHC	2.652	3.547	34537004	14296756	21.924	21.196
7) B	delta-BHC	2.844	3.959	71529033	27322841	22.824	22.155
8) MB	Aldrin	3.432	4.519	64368656	27339991	21.778	21.180
9) B	Heptachlo...	4.166	5.392	60799832	27580122	21.322	21.452
10) B	gamma-Chl...	4.339	5.695	64302089	28319475	21.528	21.778
11) B	alpha-Chl...	4.517	5.936	62157192	28285381	21.561	21.496
12) A	Endosulfan I	4.692	6.032	65477493	25454079	21.327	20.927
13) B	4,4'-DDE	4.656	6.237	44434691	24752812	20.929	22.203
14) MA	Dieldrin	5.030	6.500	60717410	26290684	21.968	21.929
15) MA	Endrin	5.364	7.037	56899848	25041504	22.519	22.826
16) A	4,4'-DDD	5.533	7.267	43318298	19246174	21.549	20.755
17) B	Endosulfa...	5.702	7.420	57110174	24474625	22.089	21.956
18) MA	4,4'-DDT	5.970	7.841	43709030	19435062	22.403	22.714
19) B	Endrin Al...	6.361	8.046	44117346	20410858	21.691	22.030
20) B	Endosulfa...	7.089	8.559	49086200	22021262	22.367	21.868
21) A	Methoxychlor	6.839	9.221	26924253	12163884	23.346	22.493
23) B	Endrin Ke...	7.557	9.600	54870441	24332220	22.080	22.020

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.11

11

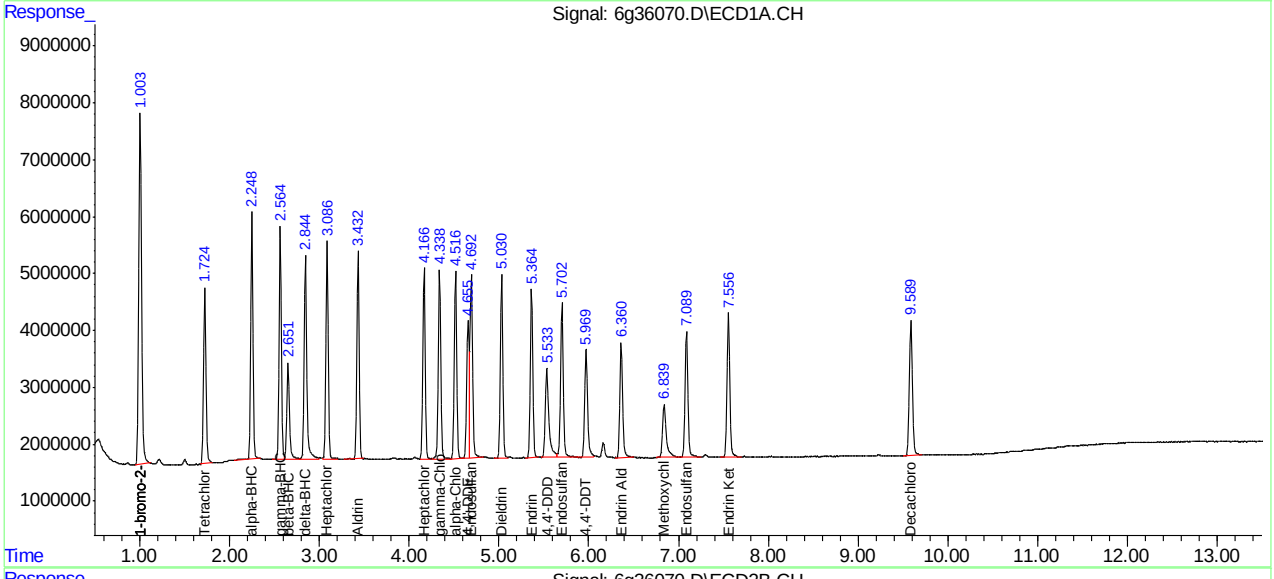
SGS ACCUTEST JC22206

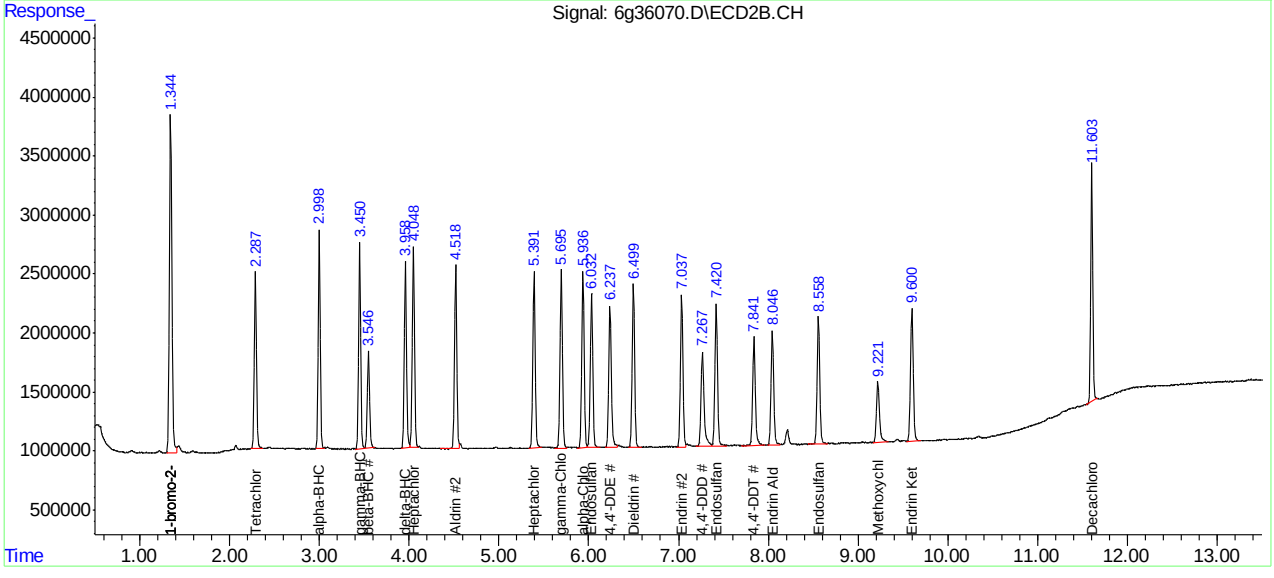
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36070.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:38 pm
Operator : dharas
Sample : icv1034-25
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:39:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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\1034\
Data File : 6g36071.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:54 pm
Operator : dharas
Sample : icv1034-25
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:40:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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...	1.006	1.346	132.8E6	56189626	50.000	50.000
25) I	1-bromo-2...	1.006	1.346	132.8E6	56189626	50.000	50.000
31) I	1-bromo-2...	1.006	1.346	132.8E6	56189626	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	6.939	9.509	65481386	34301722	28.011	29.396
	SemiQuant Compounds - Not Calibrated on this Instrument						

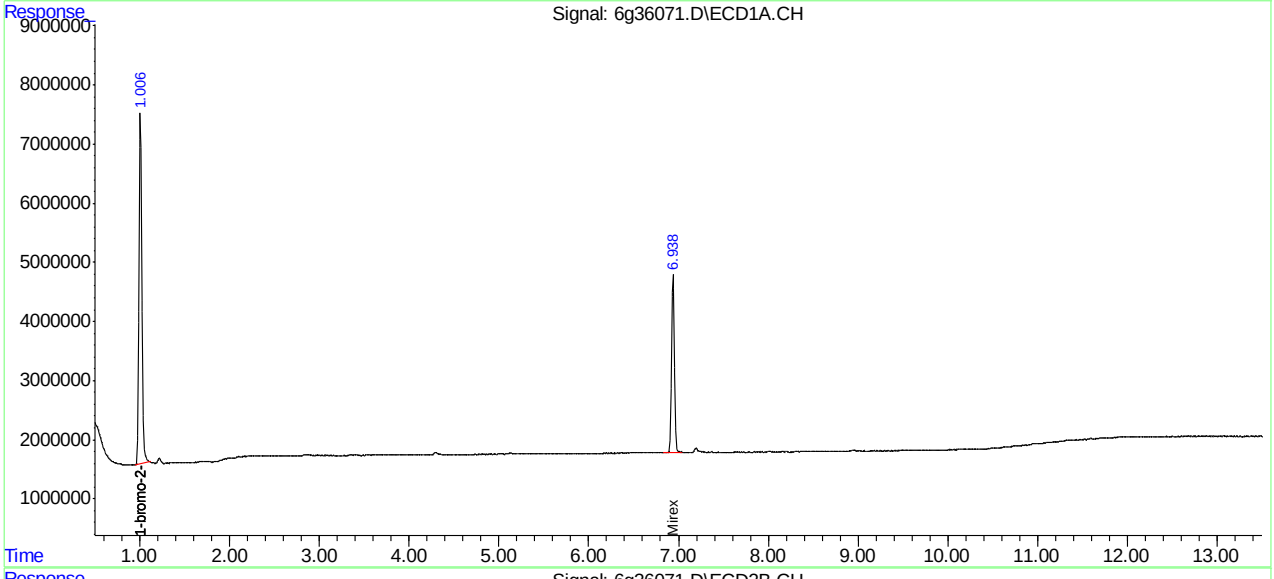
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

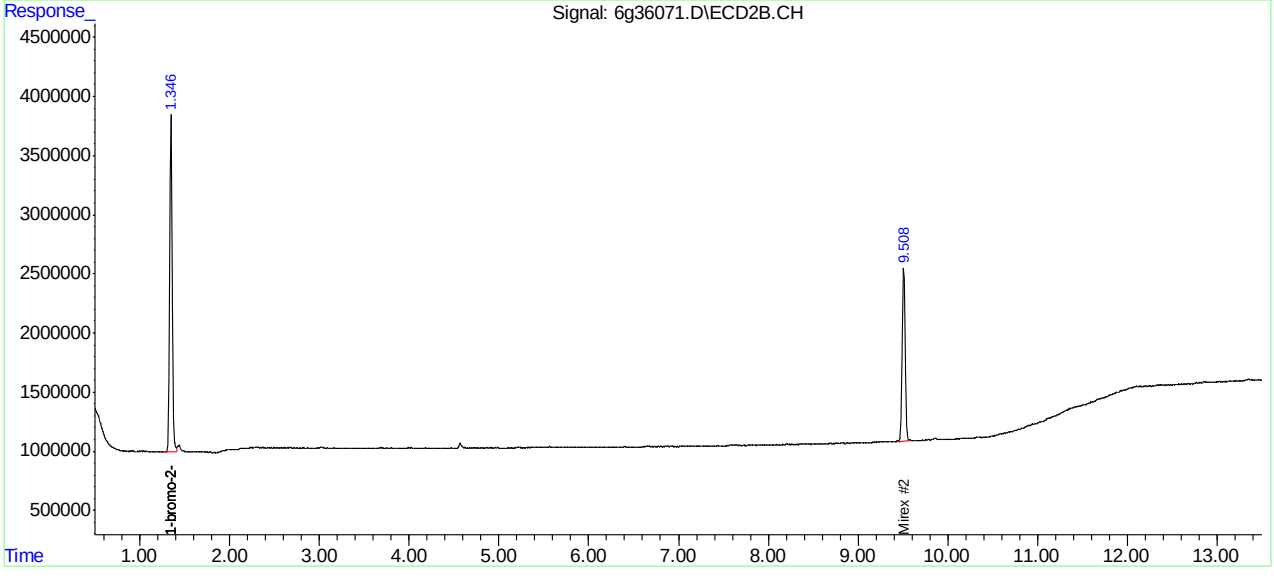
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36071.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 7:54 pm
Operator : dharas
Sample : icv1034-25
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:40:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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 JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:11 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:41:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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...	1.007	1.346	131.0E6	56157791	50.000	50.000
25) I	1-bromo-2...	1.007	1.346	131.0E6	56157791	50.000	50.000
31) I	1-bromo-2...	1.007	1.346	131.0E6	56157791	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.726	2.289	113.4E6	49876940	45.636	43.881
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 114.09%	109.70%
24)	SAB Decachlor...	9.588	11.604	110.9E6	60930757	45.479	44.583
	Spiked Amount	40.000			Recovery	= 113.70%	111.46%
	Target Compounds						
32)	Chlordane...	2.993	3.843	48605106	21444742	528.939	523.634
33)	Chlordane...	3.584	4.732	59883020	25190876	460.870	460.352
34)	Chlordane...	4.340	5.695	178.5E6	77326694	439.564	429.815
35)	Chlordane...	4.511	5.937	267.5E6	129.0E6	449.676	434.499m
36)	Chlordane...	5.610	7.504	44630643	18964205	456.650	459.344

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

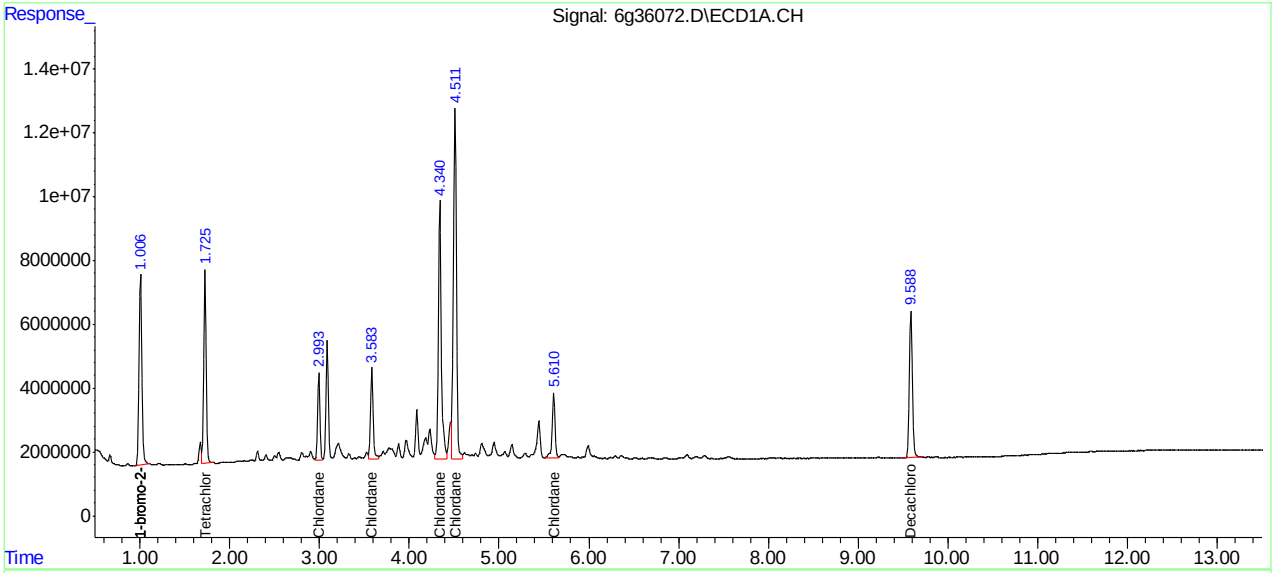
11.6.13 11

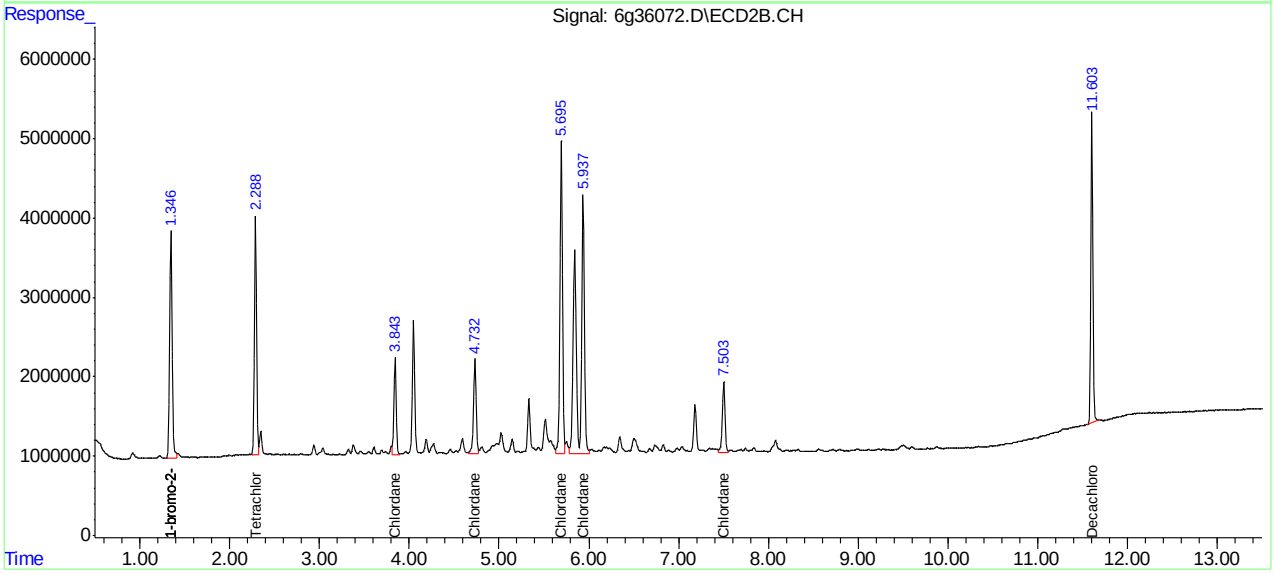
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:11 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:41:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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 JC22206

Manual Integration Approval Summary

Sample Number:	G6G1034-ICV1034	**Method:**	SW846 8081B
Lab FileID:	6G36072.D	**Analyst approved:**	06/13/16 14:06 Rebecca Krug
Injection Time:	06/10/16 20:11	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

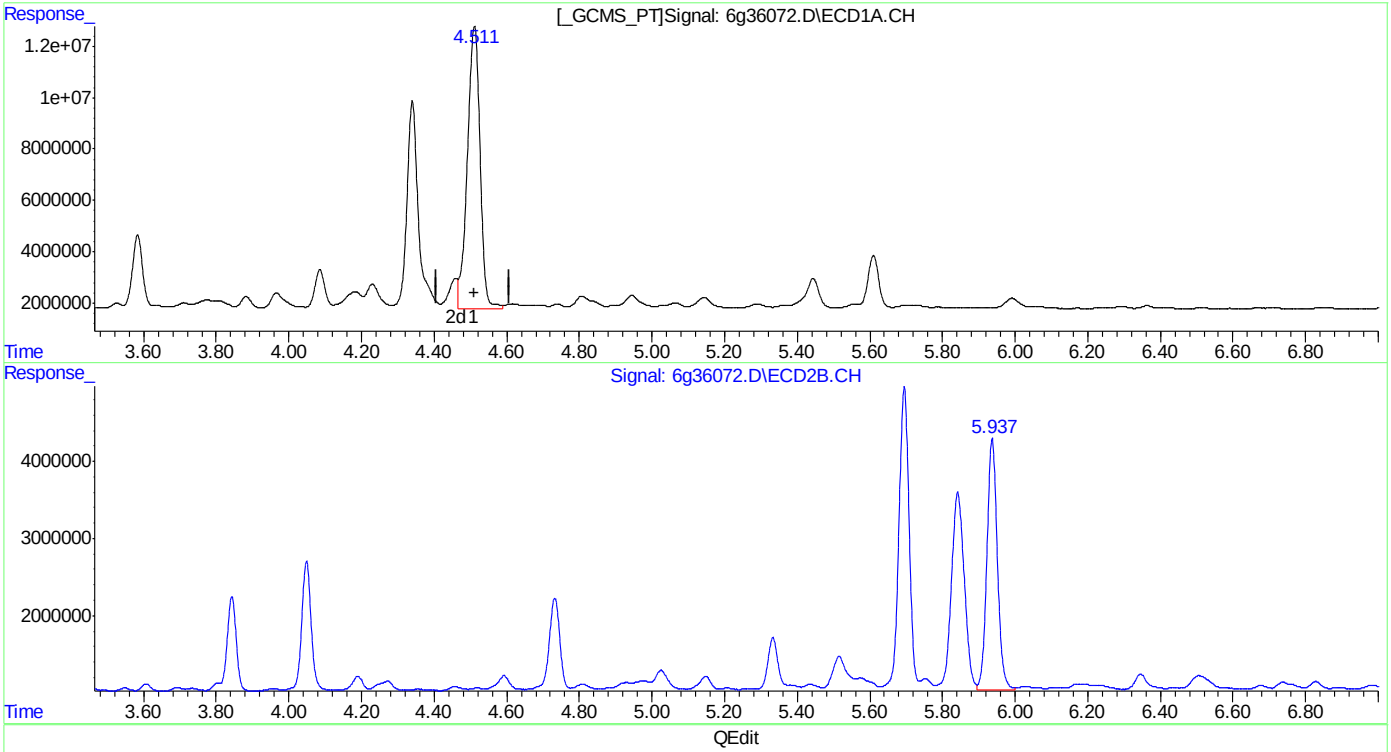
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.94	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:11 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:40:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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



(35) Chlordane {D}
4.511min 449.676PPB
response 267544045

(35) Chlordane {D} #2
5.937min 219.422PPB
response 65127399

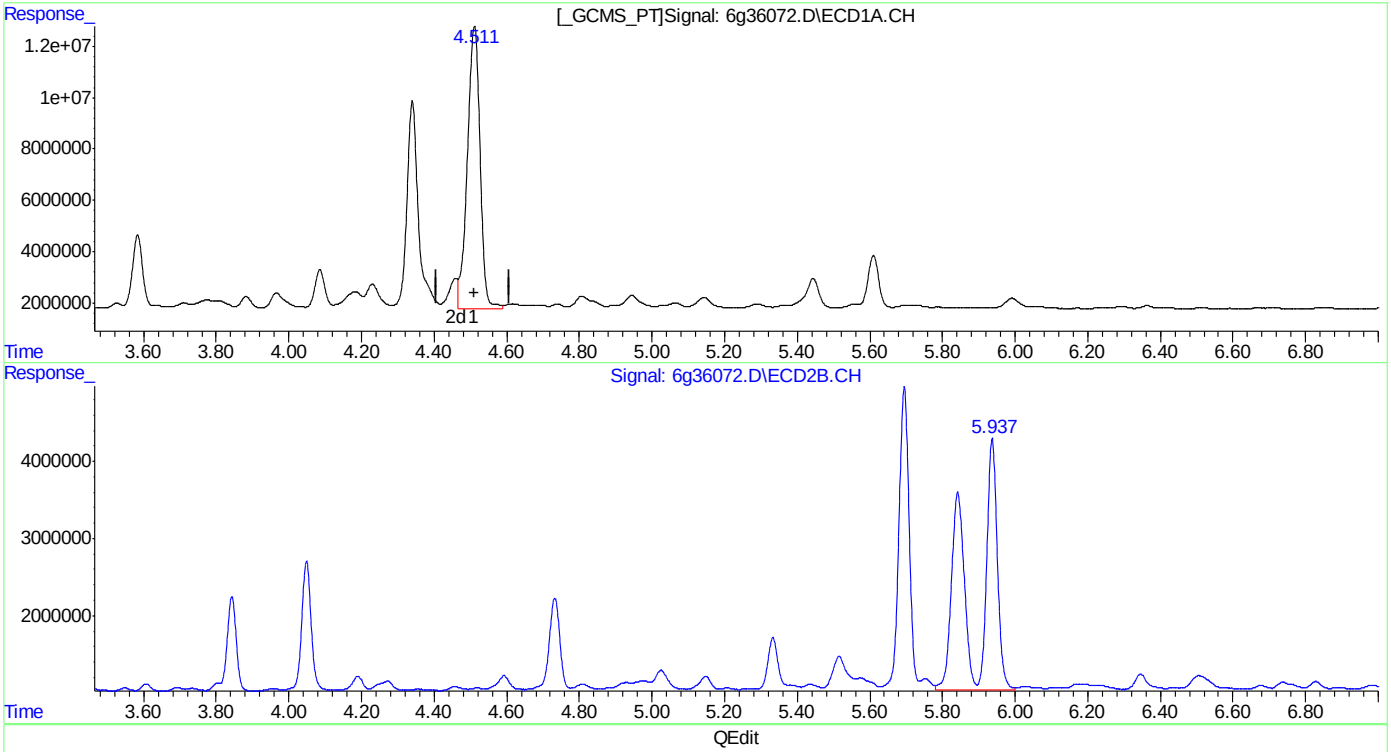
(+) = Expected Retention Time
6PST1034.M Mon Jun 13 13:41:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:11 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:40:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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



(35) Chlordane {D}
4.511min 449.676PPB
response 267544045

(35) Chlordane {D} #2
5.937min 434.499PPB m
response 128964868

(+) = Expected Retention Time
6PST1034.M Mon Jun 13 13:41:29 2016

SGS ACCUTEST JC22206

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/14/16 15:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:27 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:43:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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...	1.007	1.346	136.2E6	55718255	50.000	50.000
25) I	1-bromo-2...	1.007	1.346	136.2E6	55718255	50.000	50.000
31) I	1-bromo-2...	1.007	1.346	136.2E6	55718255	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	1.725	2.289	114.4E6	50362111	44.290	44.657
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 110.73%	111.64%
24) SAB	Decachlor...	9.586	11.602	111.8E6	61351917	44.092	45.246
	Spiked Amount	40.000			Recovery	= 110.23%	113.12%
	Target Compounds						
26) L8	Toxaphene{A}	5.040	6.468	21692047	12551746	543.789m	480.607
27) L8	Toxaphene{B}	5.424	7.388	58403878	16273401	538.050	481.624
28) L8	Toxaphene{C}	5.692	7.566	62517703	25522532	506.518	471.054
29) L8	Toxaphene{D}	6.246	8.048	54996909	16440202	497.554	487.411
30) L8	Toxaphene{E}	6.928	9.025	38542739	13158440	483.275	462.927
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

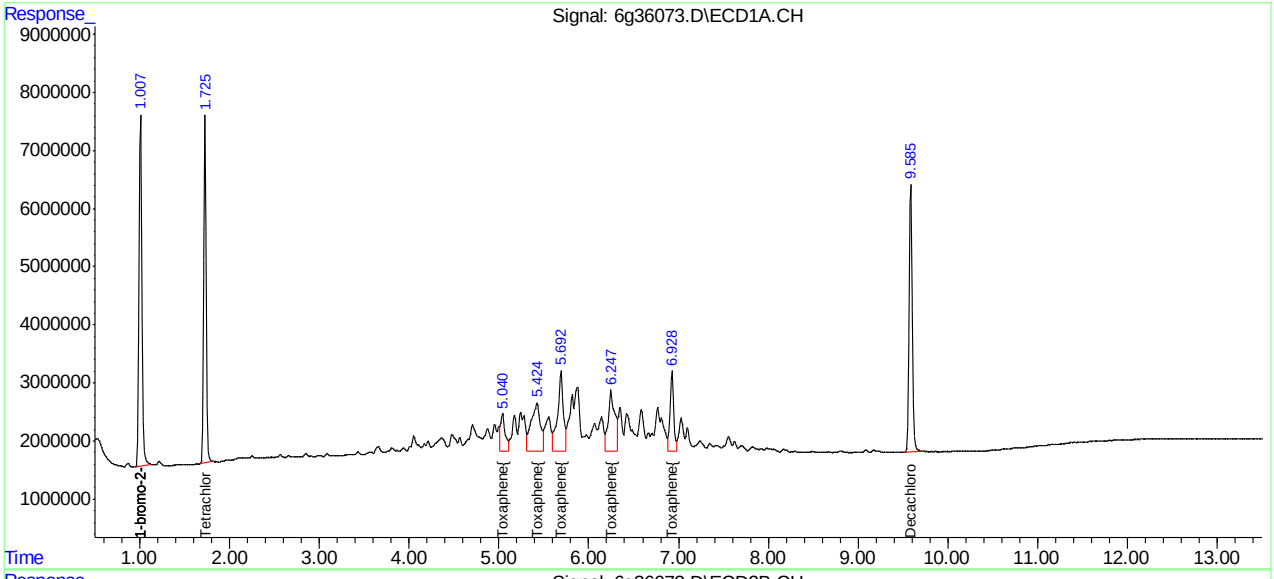
11.6.14 11

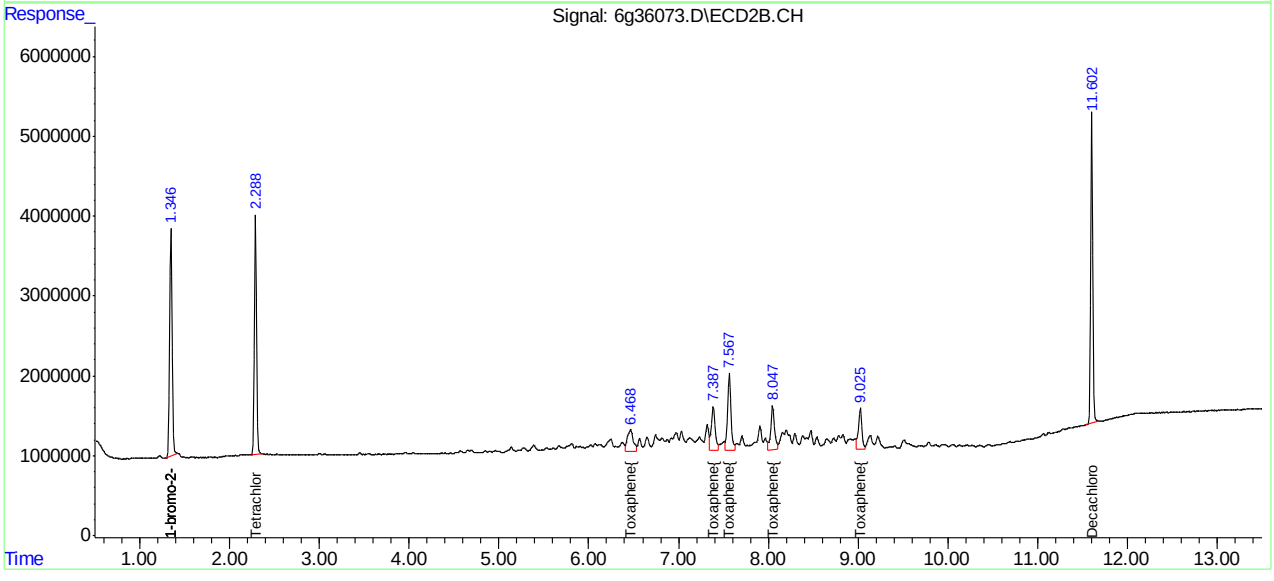
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:27 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:43:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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:	G6G1034-ICV1034	**Method:**	SW846 8081B
Lab FileID:	6G36073.D	**Analyst approved:**	06/13/16 14:06 Rebecca Krug
Injection Time:	06/10/16 20:27	**Supervisor approved:**	06/14/16 15:27 Gwendolyn Burns

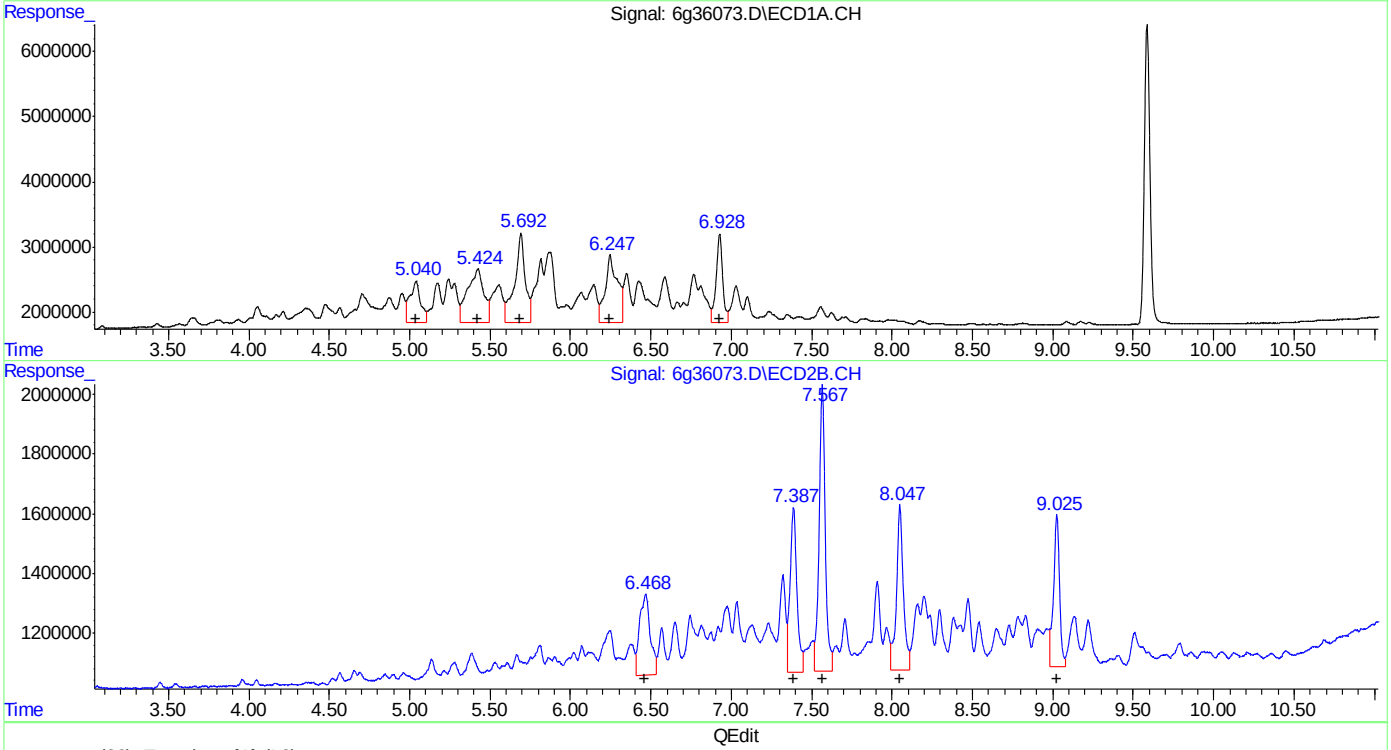
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-A		1	5.04	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:27 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:42:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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



(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.04	30241672	758.12
5.42	58403878	538.05
5.69	62517703	506.52
6.25	54996909	497.55
6.93	38542739	483.27

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.47	12551746	480.61
7.39	16273401	481.62
7.57	25522532	471.05
8.05	16440202	487.41
9.03	13158440	462.93

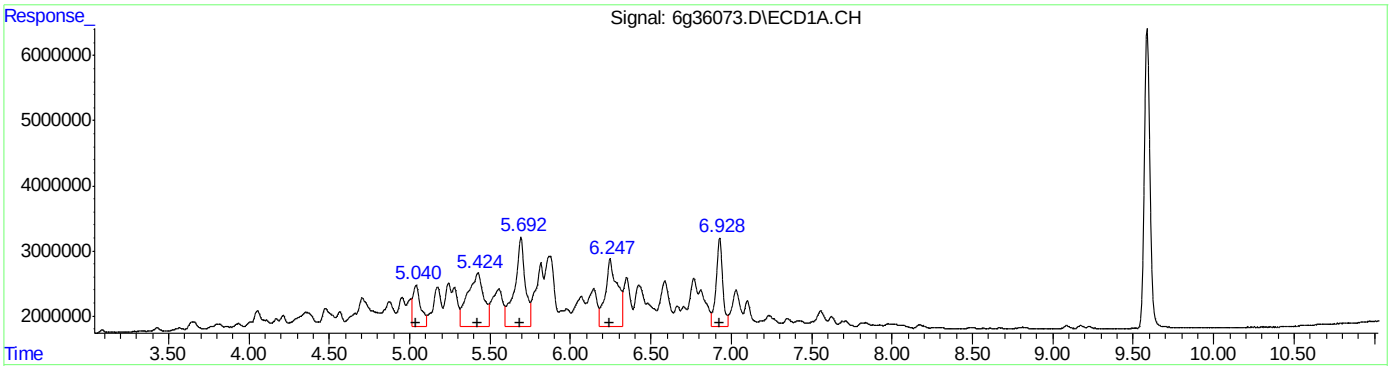
(+) = Expected Retention Time

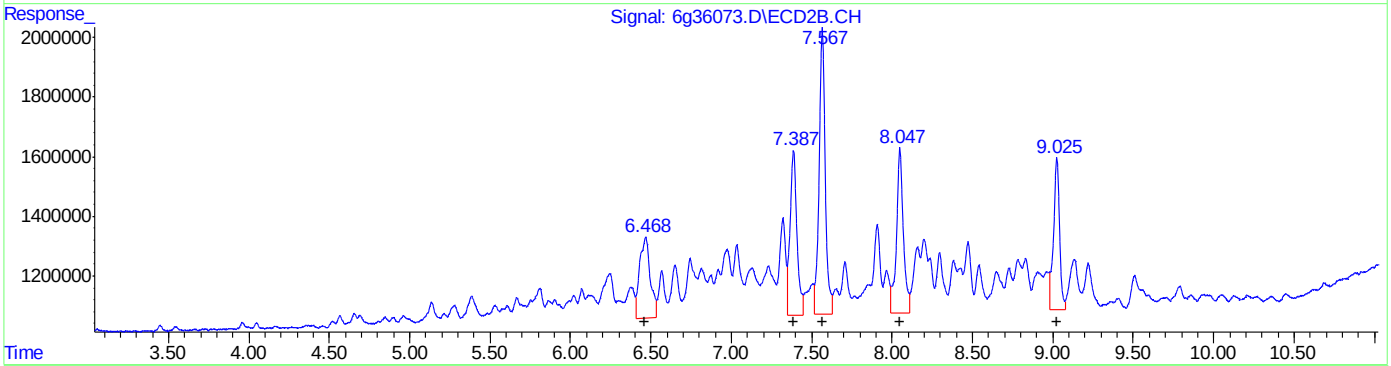
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1034\
Data File : 6g36073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Jun 2016 8:27 pm
Operator : dharas
Sample : icv1034-500
Misc : op94394,g6g1034,300,,,2,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 13 13:42:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 13 12:02:56 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
5.04	21692047	543.79
5.42	58403878	538.05
5.69	62517703	506.52
6.25	54996909	497.55
6.93	38542739	483.27

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.47	12551746	480.61
7.39	16273401	481.62
7.57	25522532	471.05
8.05	16440202	487.41
9.03	13158440	462.93

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/28/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:14 pm
Operator : dharas
Sample : c1034-25
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:19:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	0.999	1.337	119.0E6	51614446	50.000	50.000
25) I	1-bromo-2...	0.999	1.337	119.0E6	51614446	50.000	50.000
31) I	1-bromo-2...	0.999	1.337	119.0E6	51614446	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.718	2.278	52208976	24641800	23.134	23.588
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 57.84%	58.97%
24)	SAB Decachlor...	9.566	11.591	49020026	29591471	22.136	23.558
	Spiked Amount	40.000			Recovery	= 55.34%	58.89%
	Target Compounds						
3) A	alpha-BHC	2.240	2.988	68492833	29585112	23.064m	23.447
4) MA	gamma-BHC	2.556	3.436	63902138	28584126	23.132	24.187
5) MA	Heptachlor	3.075	4.033	60878433	31384303	22.255	25.297
6) B	beta-BHC	2.645	3.536	30406050	14560299	22.096	23.462
7) B	delta-BHC	2.837	3.944	58564066	26190021	21.392	23.081
8) MB	Aldrin	3.420	4.501	57387949	28539319	22.227	24.030
9) B	Heptachlo...	4.153	5.371	55139409	27563684	22.136	23.301m
10) B	gamma-Chl...	4.326	5.675	51877678	27640436	19.882	23.102
11) B	alpha-Chl...	4.503	5.916	53238637	27889218	21.140	23.037
12) A	Endosulfan I	4.676	6.012	59085537	25899935	22.031	23.143
13) B	4,4'-DDE	4.642	6.217	40660775	27517570	21.923	26.828
14) MA	Dieldrin	5.014	6.476	53676792	26945127	22.232	24.427
15) MA	Endrin	5.348	7.014	50808431	25070132	23.019	24.837
16) A	4,4'-DDD	5.518	7.245	39901271	20342830	22.721	23.844
17) B	Endosulfa...	5.686	7.396	50386728	24786504	22.309	24.168
18) MA	4,4'-DDT	5.954	7.818	37398197	19427810	21.943	24.678
19) B	Endrin Al...	6.344	8.024	39941225	20459814	22.480	24.001
20) B	Endosulfa...	7.069	8.536	41971570	21704267	21.893	23.425
21) A	Methoxychlor	6.821	9.195	21685012	11998789	21.524	24.115
22)	Mirex	6.920	9.481	43094693	23471965	20.580	21.898
23) B	Endrin Ke...	7.535	9.575	49543591	24908763	22.821	24.500

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

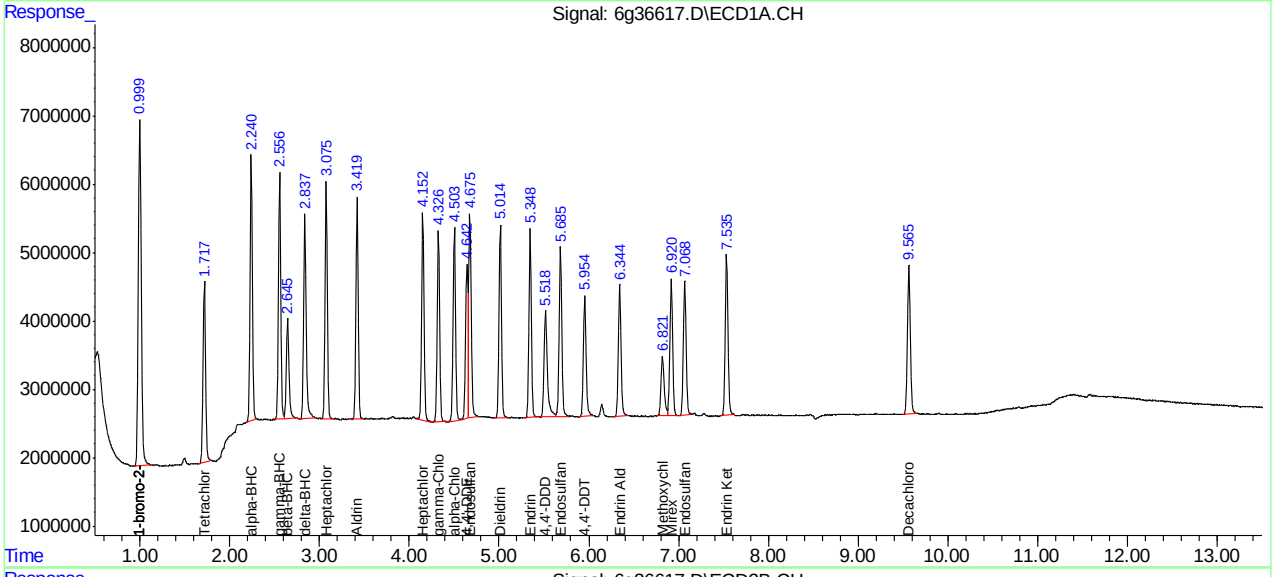
11.6.15 11

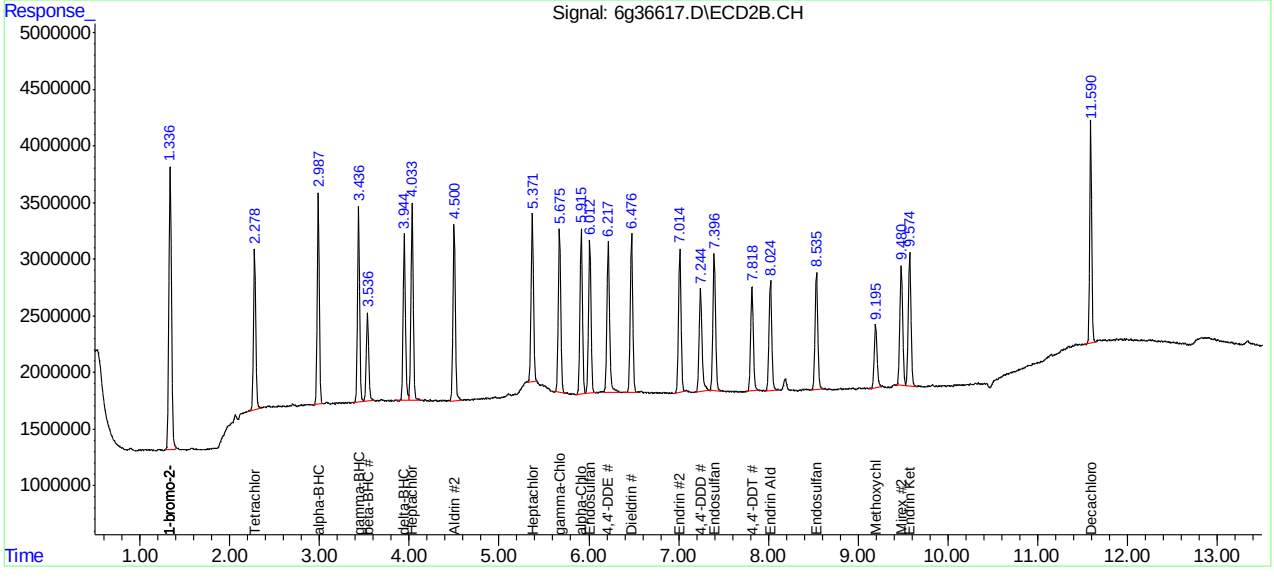
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:14 pm
Operator : dharas
Sample : c1034-25
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:19:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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:	G6G1047-CC1034	**Method:**	SW846 8081B
Lab FileID:	6G36617.D	**Analyst approved:**	06/28/16 09:06 Kristen Drake
Injection Time:	06/27/16 17:14	**Supervisor approved:**	06/28/16 11:26 Gwendolyn Burns

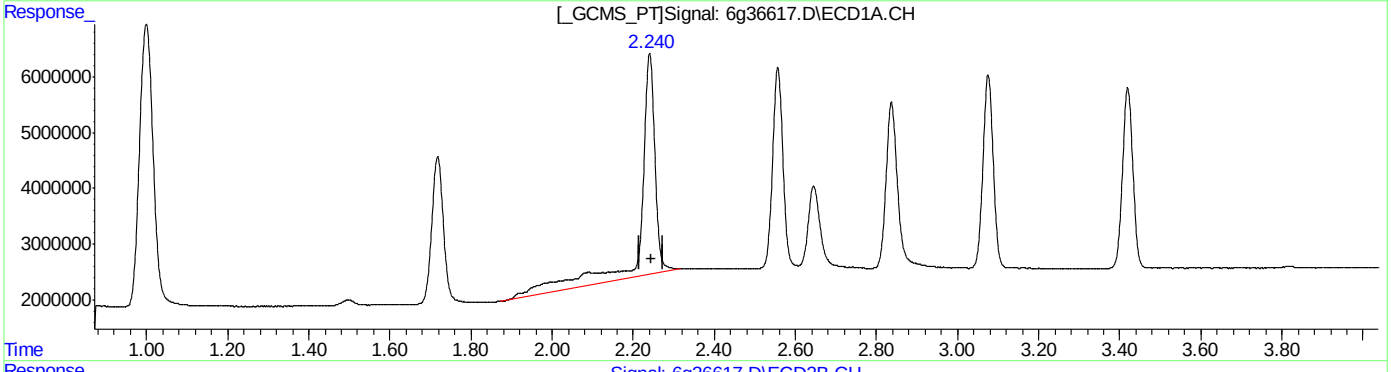
Parameter	CAS	Sig#	R.T. (min.)	Reason
alpha-BHC	319-84-6	1	2.24	Poorly defined baseline
Heptachlor epoxide	1024-57-3	2	5.37	Poorly defined baseline

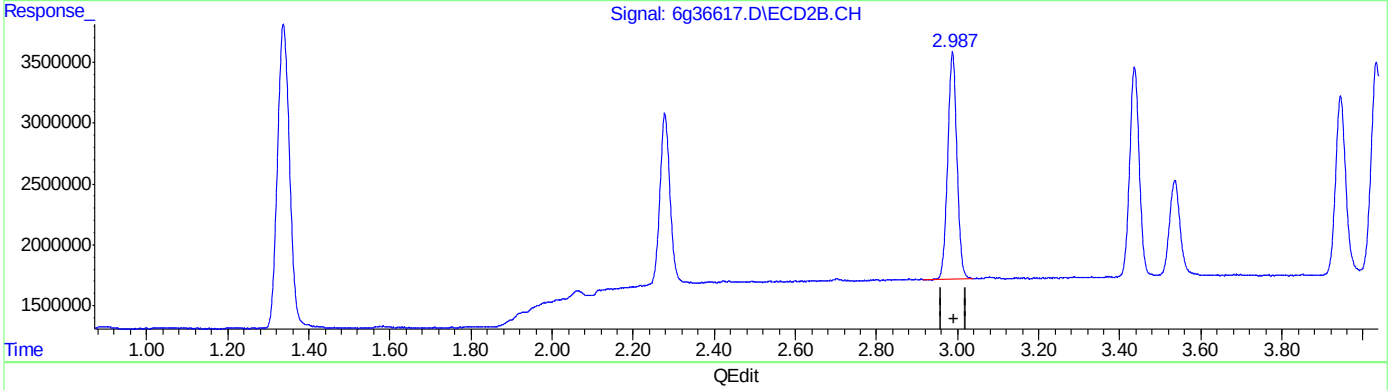
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:14 pm
Operator : dharas
Sample : c1034-25
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:17:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
2.241min 33.943PPB
response 100797448

(3) alpha-BHC #2 (A)
2.988min 23.447PPB
response 29585112

(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:19:28 2016

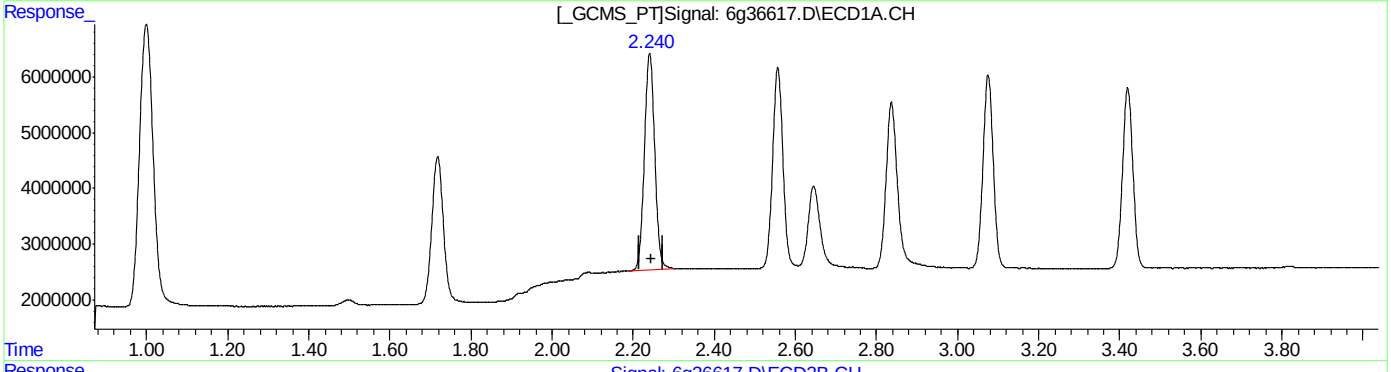
SGS ACCUTEST JC22206

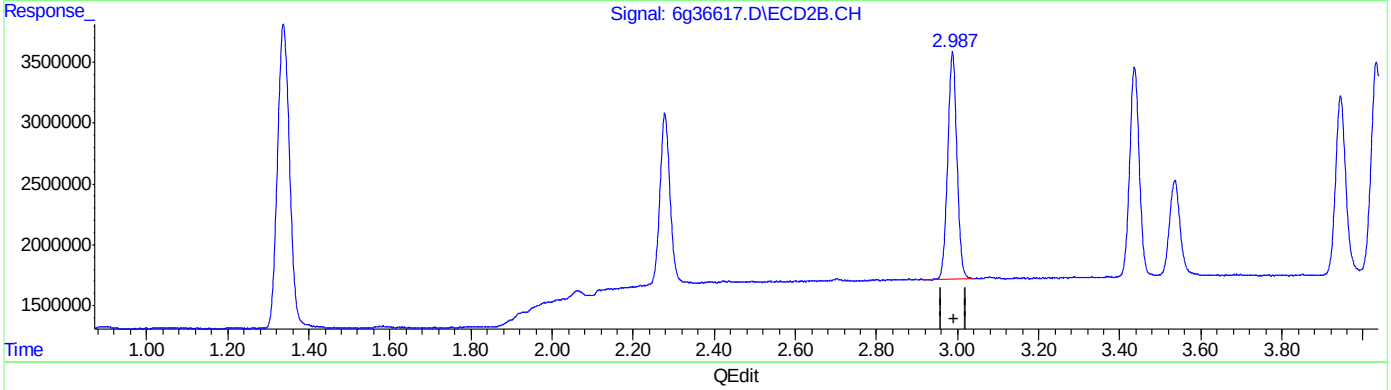
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:14 pm
Operator : dharas
Sample : c1034-25
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:17:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
2.240min 23.064PPB m
response 68492833

(3) alpha-BHC #2 (A)
2.988min 23.447PPB
response 29585112

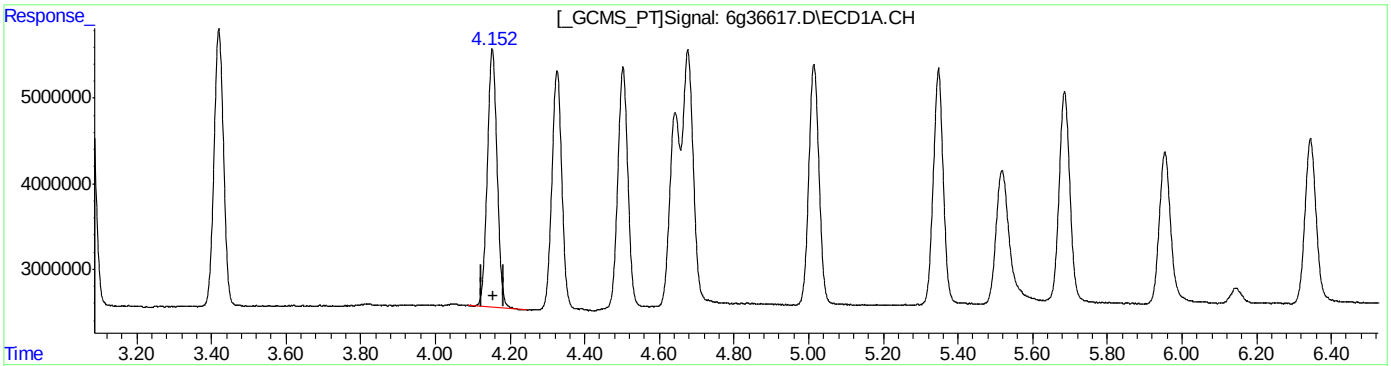
(+) = Expected Retention Time
6PST1034.M Tue Jun 28 08:19:36 2016

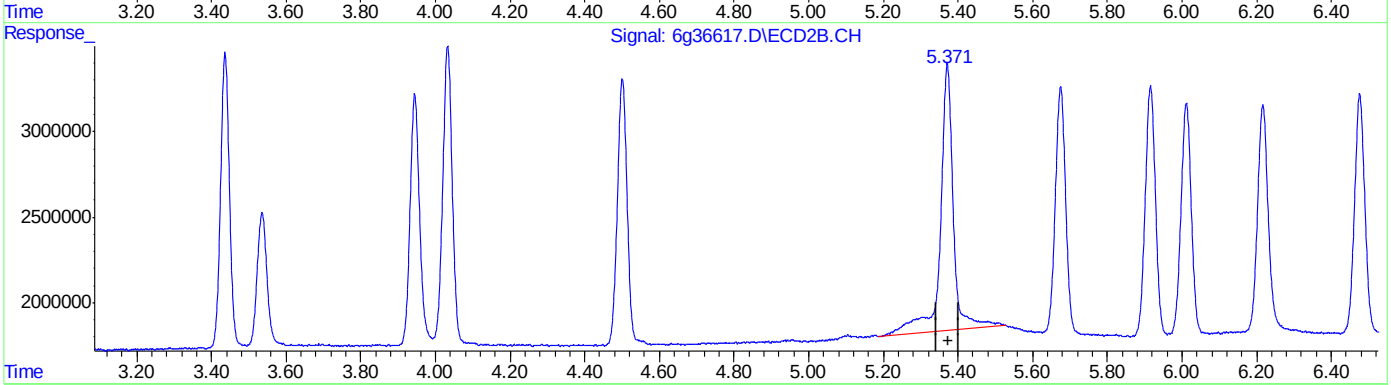
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:14 pm
Operator : dharas
Sample : c1034-25
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:17:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
4.153min 22.136PPB
response 55139409

(9) Heptachlor Epoxide #2 (B)
5.371min 32.254PPB
response 38154072

(+) = Expected Retention Time

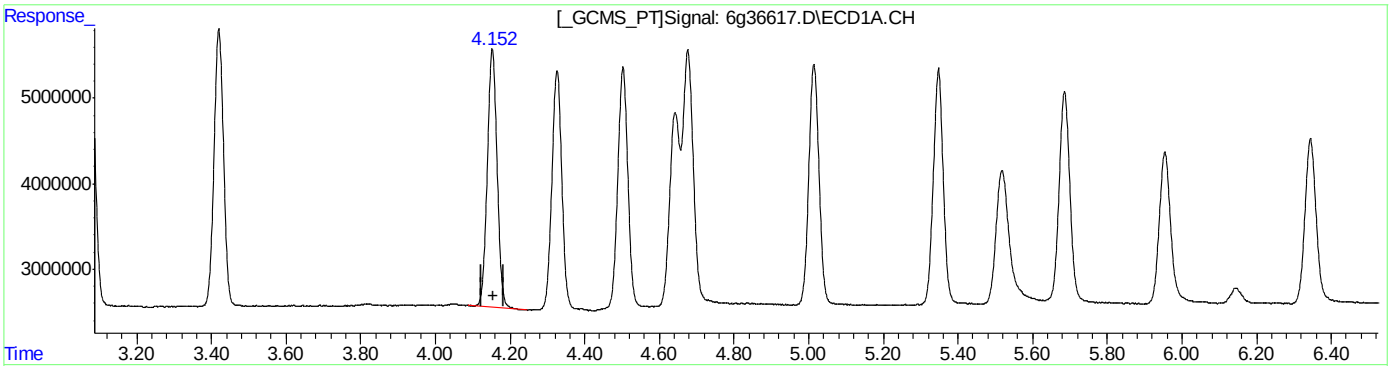
SGS ACCUTEST JC22206

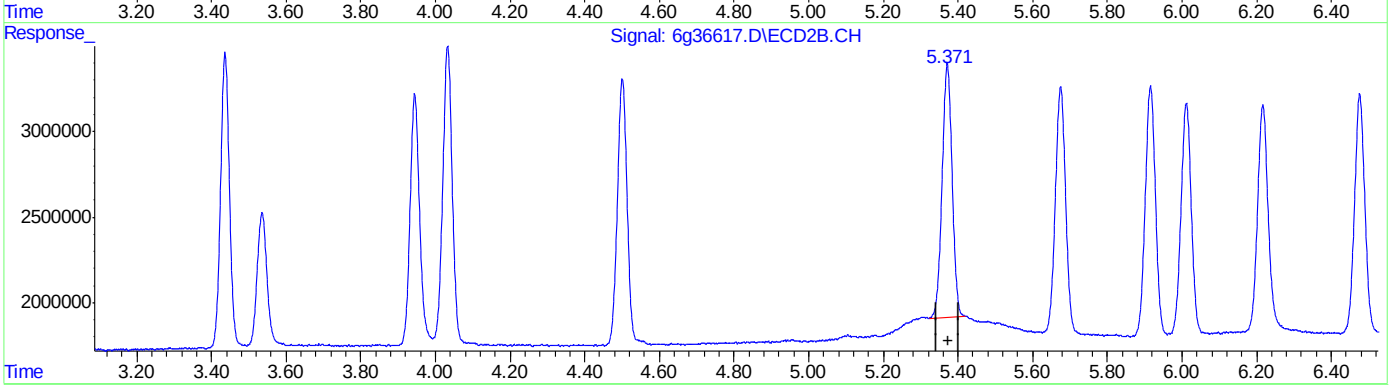
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36617.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 5:14 pm
Operator : dharas
Sample : c1034-25
Misc : op95109,g6g1047,15.1,,,10,10
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:17:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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)
4.153min 22.136PPB
response 55139409

(9) Heptachlor Epoxide #2 (B)
5.371min 23.301PPB m
response 27563684

(+) = Expected Retention Time

SGS ACCUTEST JC22206

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36638.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 10:59 pm
Operator : dharas
Sample : cc1034-50
Misc : op95079,g6g1047,1000,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:24:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.012	1.348	124.1E6	52305569	50.000	50.000	
25) I	1-bromo-2...	1.012	1.348	124.1E6	52305569	50.000	50.000	
31) I	1-bromo-2...	1.012	1.348	124.1E6	52305569	50.000	50.000	
	System Monitoring Compounds							
2)	SAB Tetrachlo...	1.725	2.284	113.1E6	51653073	48.080	48.790	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 120.20%	121.97%	
24)	SAB Decachlor...	9.566	11.585	101.9E6	60512122	44.136	47.538	
	Spiked Amount	40.000			Recovery	= 110.34%	118.85%	
	Target Compounds							
3) A	alpha-BHC	2.246	2.991	155.0E6	67736274	50.048	52.974	
4) MA	gamma-BHC	2.561	3.439	141.9E6	63421620	49.245	52.955	
5) MA	Heptachlor	3.080	4.034	128.5E6	66229429	45.037	52.679	
6) B	beta-BHC	2.650	3.538	62797020	30288663	43.765	48.161	
7) B	delta-BHC	2.842	3.947	130.0E6	57156029	45.540	49.706	
8) MB	Aldrin	3.423	4.503	130.0E6	63491160	48.269	52.754	
9) B	Heptachlo...	4.155	5.373	120.0E6	60412688	46.218	50.396	
10) B	gamma-Chl...	4.327	5.676	121.3E6	61665437	44.597	50.860	
11) B	alpha-Chl...	4.504	5.916	119.8E6	61717297	45.626	50.305	
12) A	Endosulfan I	4.678	6.012	149.7E6	57541191	53.527	50.738	
13) B	4,4'-DDE	4.649	6.219	72870206	57785042	37.680	55.592	#
14) MA	Dieldrin	5.016	6.477	120.7E6	59237846	47.934	52.992	
15) MA	Endrin	5.348	7.013	104.3E6	51219976	45.308	50.073	
16) A	4,4'-DDD	5.526	7.247	83826214	43123349	45.779	49.877	
17) B	Endosulfa...	5.687	7.398	111.0E6	54669420	47.119	52.600	
18) MA	4,4'-DDT	5.957	7.819	76287646	38874893	42.927	48.728	
19) B	Endrin Al...	6.345	8.022	89743248	46312342	48.440	53.610	
20) B	Endosulfa...	7.069	8.534	90624808	46970101	45.335	50.025	
21) A	Methoxychlor	6.827	9.196	38456137	22707595	36.608	45.035	
22)	Mirex	6.920	9.481	93630601	53088322	42.883	48.874	
23) B	Endrin Ke...	7.537	9.574	116.2E6	59063320	51.349	57.327	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

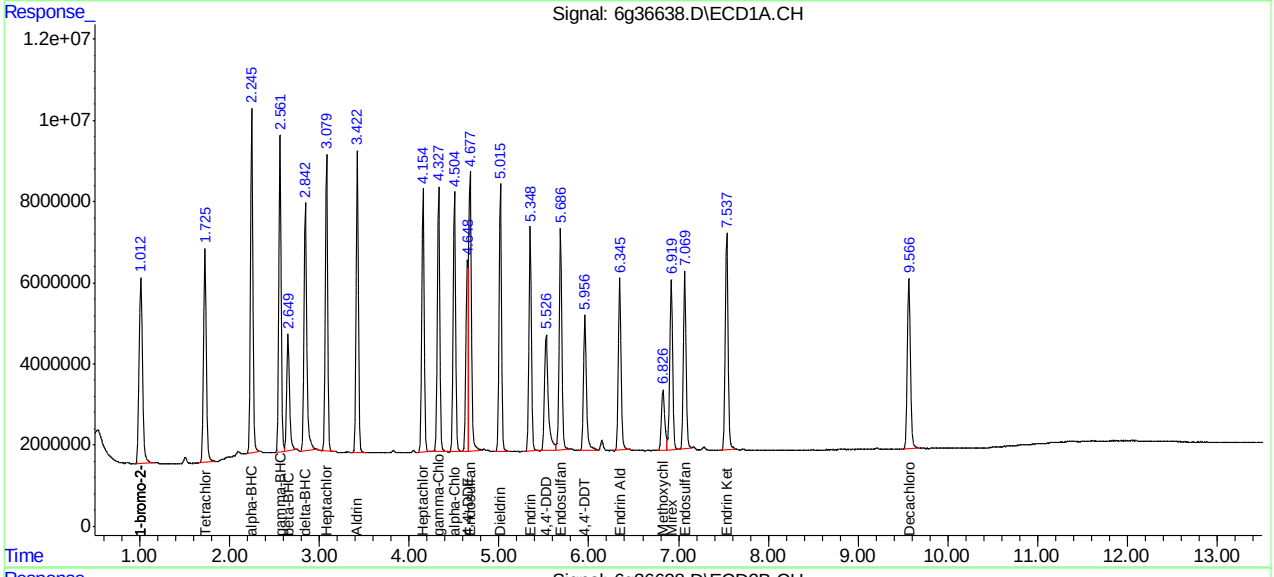
SGS ACCUTEST JC22206

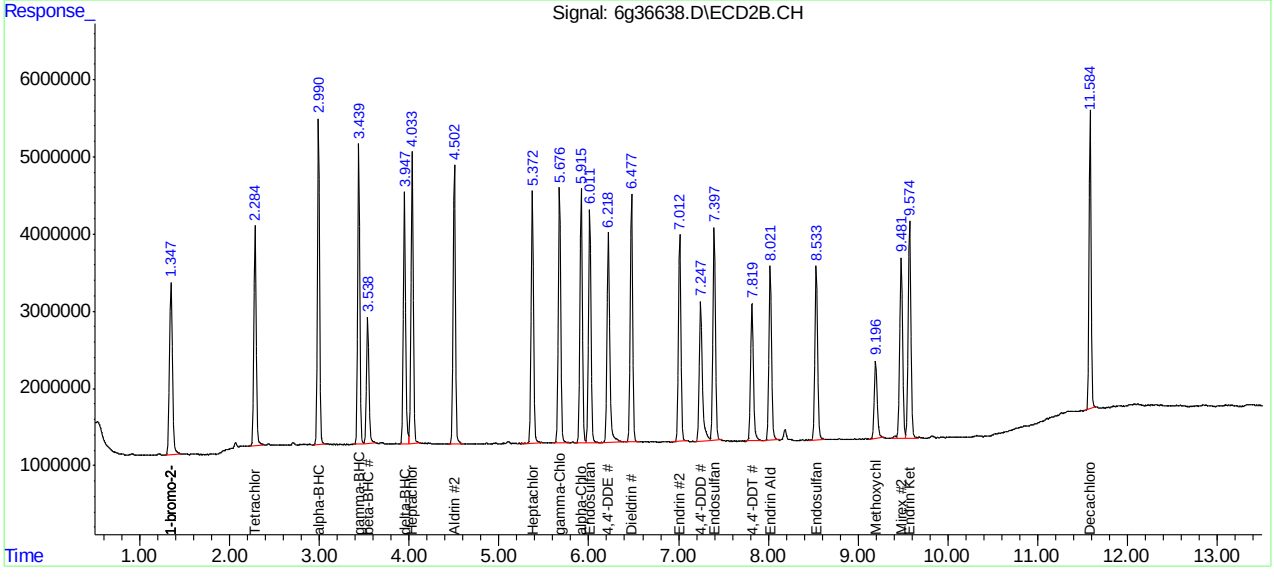
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1047\
Data File : 6g36638.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Jun 2016 10:59 pm
Operator : dharas
Sample : cc1034-50
Misc : op95079,g6g1047,1000,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:24:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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\1048\
Data File : 6g36651.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:23 am
Operator : kristend
Sample : cc1034-25
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:39:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.003	1.341	135.9E6	59162394	50.000	50.000
25) I	1-bromo-2...	1.003	1.341	135.9E6	59162394	50.000	50.000
31) I	1-bromo-2...	1.003	1.341	135.9E6	59162394	50.000	50.000
	System Monitoring Compounds						
2)	SAB Tetrachlo...	1.719	2.280	61349483	28754492	23.802	24.013
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 59.50%	60.03%
24)	SAB Decachlor...	9.561	11.589	57385966	33433835	22.689	23.221
	Spiked Amount	40.000			Recovery	= 56.72%	58.05%
	Target Compounds						
3) A	alpha-BHC	2.242	2.988	81800372	35698732	24.118	24.683
4) MA	gamma-BHC	2.557	3.437	75827265	33813617	24.033	24.961
5) MA	Heptachlor	3.076	4.033	70642384	37159080	22.611	26.131
6) B	beta-BHC	2.645	3.535	36220747	16905170	23.046	23.765
7) B	delta-BHC	2.836	3.944	67970344	31404340	21.738	24.146
8) MB	Aldrin	3.421	4.501	66892469	33968638	22.684	24.953
9) B	Heptachlo...	4.151	5.371	62012354	33363254	21.797	24.606
10) B	gamma-Chl...	4.325	5.674	58609123	33259835	19.667	24.252
11) B	alpha-Chl...	4.502	5.915	60109293	33556461	20.898	24.182
12) A	Endosulfan I	4.677	6.010	65961029	31350427	21.534	24.440
13) B	4,4'-DDE	4.639	6.215	46923323	32044609	22.152	27.255
14) MA	Dieldrin	5.013	6.476	61923153	31701540	22.456	25.072
15) MA	Endrin	5.346	7.013	58280490	29530664	23.118	25.524
16) A	4,4'-DDD	5.512	7.242	45435887	23388456	22.654	23.916
17) B	Endosulfa...	5.682	7.395	58670798	29478824	22.745	25.076
18) MA	4,4'-DDT	5.951	7.815	45396051	23458996	23.321	25.997
19) B	Endrin Al...	6.341	8.020	47543175	25014892	23.429	25.601
20) B	Endosulfa...	7.066	8.533	52018699	27610829	23.757	25.998
21) A	Methoxychlor	6.814	9.191	26764413	14881391	23.261	26.093
22)	Mirex	6.918	9.480	51318198	29218300	21.458	23.782
23) B	Endrin Ke...	7.532	9.571	62436139	31848223	25.182	27.329

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.17 11

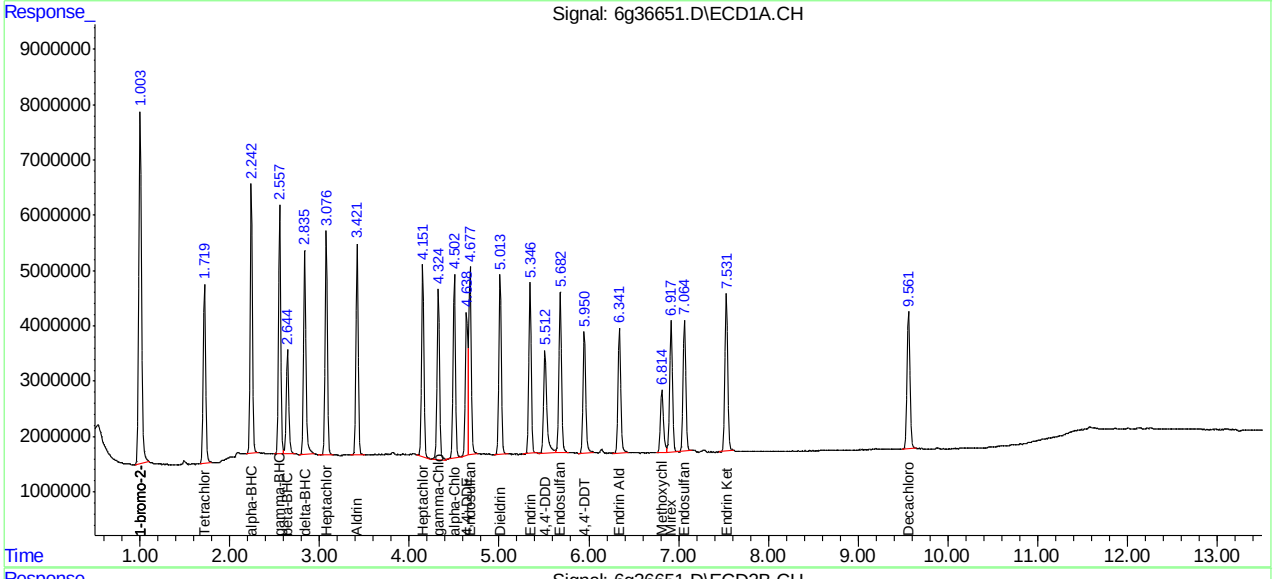
SGS ACCUTEST JC22206

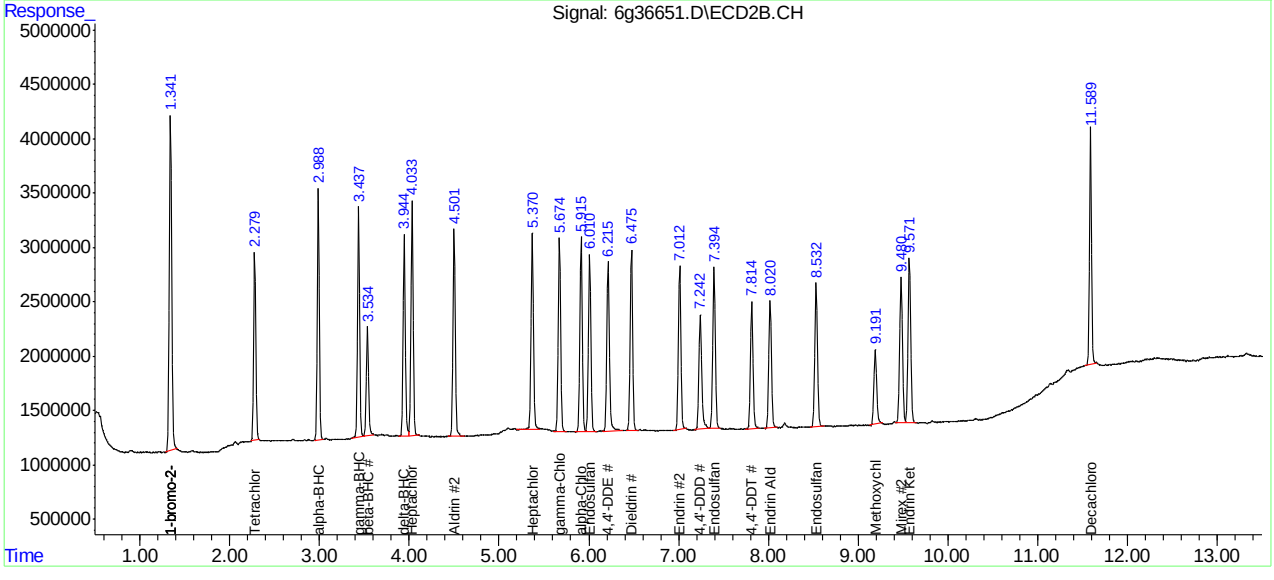
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36651.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 9:23 am
Operator : kristend
Sample : cc1034-25
Misc : op95064,g6g1048,15.0,,,10,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:39:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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 JC22206

11.6.17 11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36673.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 3:01 pm
Operator : kristend
Sample : cc1034-50
Misc : op94807,g6g1048,15.4,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 15:28:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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...	1.004	1.342	131.8E6	56415485	50.000	50.000	
25) I	1-bromo-2...	1.004	1.342	131.8E6	56415485	50.000	50.000	
31) I	1-bromo-2...	1.004	1.342	131.8E6	56415485	50.000	50.000	
	System Monitoring Compounds							
2)	SAB Tetrachlo...	1.720	2.280	123.0E6	55998237	49.225	49.041	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 123.06%	122.60%	
24)	SAB Decachlor...	9.562	11.589	113.3E6	63872248	46.201	46.522	
	Spiked Amount	40.000			Recovery	= 115.50%	116.30%	
	Target Compounds							
3) A	alpha-BHC	2.242	2.988	174.4E6	74926537	53.042	54.329	
4) MA	gamma-BHC	2.558	3.437	159.8E6	70108910	52.248	54.274	
5) MA	Heptachlor	3.076	4.032	153.6E6	77308985	50.691	57.012	
6) B	beta-BHC	2.647	3.536	68881180	32733974	45.197	48.258	
7) B	delta-BHC	2.839	3.945	146.9E6	63758064	48.466	51.408	
8) MB	Aldrin	3.419	4.499	145.1E6	70124332	50.749	54.021	
9) B	Heptachlo...	4.151	5.370	134.6E6	67080237	48.801	51.882	
10) B	gamma-Chl...	4.323	5.674	135.2E6	67632155	46.782	51.717	
11) B	alpha-Chl...	4.500	5.914	133.3E6	67465544	47.806	50.984	
12) A	Endosulfan I	4.675	6.010	163.6E6	63254440	55.082	51.712	
13) B	4,4'-DDE	4.644	6.216	83757361	59953954	40.777	53.476	#
14) MA	Dieldrin	5.012	6.475	135.2E6	65141418	50.571	54.028	
15) MA	Endrin	5.345	7.012	125.4E6	60963776	51.284	55.257	
16) A	4,4'-DDD	5.522	7.246	91262033	47041467	46.925	50.445	
17) B	Endosulfa...	5.683	7.395	125.2E6	60492901	50.039	53.963	
18) MA	4,4'-DDT	5.954	7.816	93520573	48228702	49.546	56.049	
19) B	Endrin Al...	6.342	8.021	97591410	49913568	49.595	53.570	
20) B	Endosulfa...	7.066	8.533	104.8E6	53641577	49.375	52.968	
21) A	Methoxychlor	6.823	9.195	49733996	28435487	44.575	52.286	
22)	Mirex	6.915	9.477	105.8E6	56862754	45.626	48.536	
23) B	Endrin Ke...	7.532	9.571	133.3E6	64953710	55.429	58.451	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.18 11

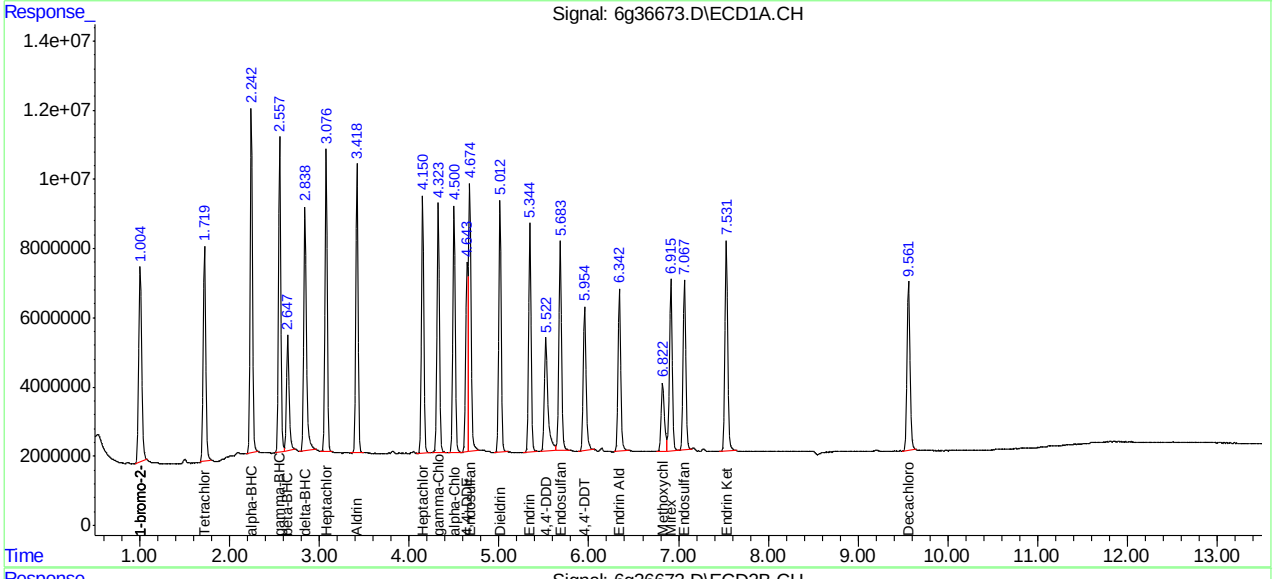
SGS ACCUTEST JC22206

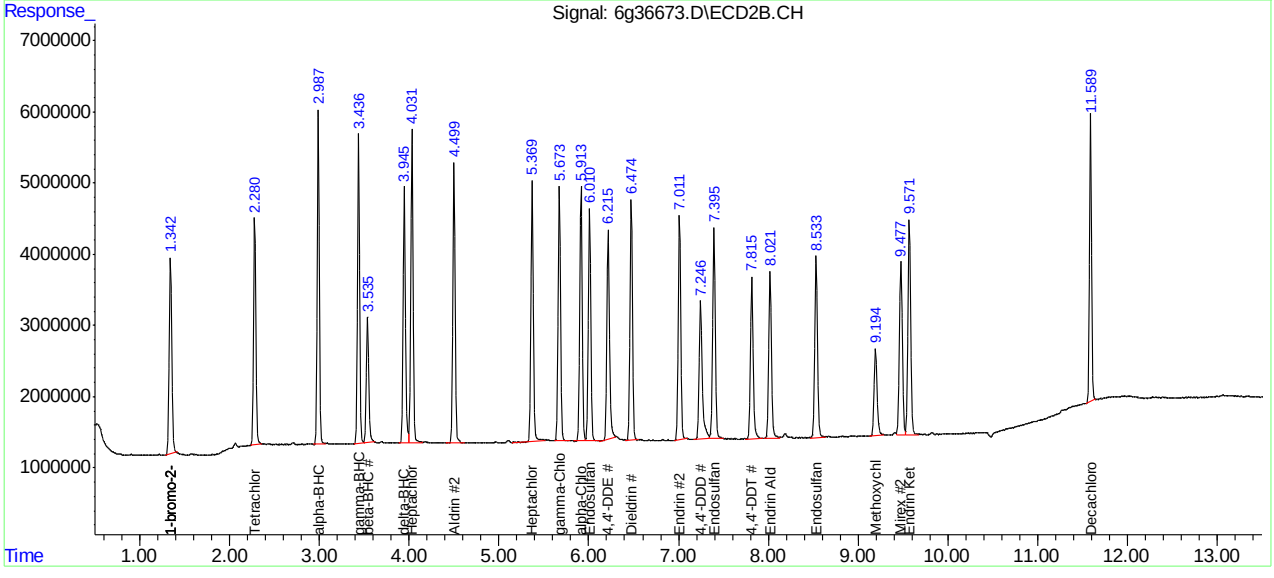
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\1048\
Data File : 6g36673.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Jun 2016 3:01 pm
Operator : kristend
Sample : cc1034-50
Misc : op94807,g6g1048,15.4,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 15:28:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\6PST1034.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 27 08:34:56 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

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G-GC 1034

Print Analyst Name: Dharm Saparia

Analyst Signature:

Date: 6/10/16

Columns: ZB CLP I / ZB CLP II

Method 8081 / 608

Initial Cal. Method GPST 1034

Injection Volume: 1.0 uL

Date Archived:

Standard Data

	Lot #	Description	Conc.
SV	161933-47A	pest mix	25 ppb
	-47A		50
SV	161874-47C		1
	-47D		2
	-47E		5
	-47F		10
	-47G		75
	-47H		100
CC	161299	mirex 2nd source	250 ppb

Standard Data

	Lot #	Description	Conc.
SV	161933-35	pest BSTD	5 ppm
	-51	PCM	10-250 ppb
	-09	IB	20 ppb
SV	161874-20	chlordane 1st	10 ppm
	-21	Toxaphene 1st	10 ppm
	-96	Chlordane 2nd	500 ppb
	-97	Toxaphene 2nd	500 ppb
	160453	Hexane (filler)	—
SV	161874-95	pest mix 2nd	250 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: **Date:** 6/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6296057	ddt				1			/	OK	
	059	IB				2			/	OK	
	060	IC1034-1	1st source	pest mix		3			/	OK	
	061	-2				4			/	OK	
	062	-5				5			/	OK	
	063	-10				6			/	OK	
	064	IC1034-25				7			/	OK	
	065	IC1034-50				8			/	OK	
	066	-75				9			/	OK	
	067	-100				10			/	OK	
	068	-500		CHL		11	20		/	OK	
	069	-500		Tox		12	20		/	OK	
	070	IC1034-25	2nd source	pest		13	10		/	OK	
	071	-25		mirex		14	10		/	OK	
	072	-500		CHL		15			/	OK	
	073	-500		Tox		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

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Form: OR016-08
Rev. Date: 1/19/16

11.7.1 11

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC6G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	6G36064.D	06/10/16 17:59	G6G1034-ICC1034	DHARAS
Std#2	6G36074.D	06/10/16 20:44	G6G1035-CC1034	DHARAS
Std#3	6G36096.D	06/13/16 09:27	G6G1036-CC1034	DHARAS

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
1-Bromo-2-nitrobenzene	1	ISTD	1.01	1.01	1.00	1.01	0.006	+/- 0.030 [a]
1-Bromo-2-nitrobenzene	2	ISTD	1.35	1.35	1.34	1.35	0.006	+/- 0.030 [a]
Tetrachloro-m-xylene	1	SURR	1.73	1.73	1.72	1.73	0.006	+/- 0.030 [a]
Decachlorobiphenyl	1	SURR	9.59	9.59	9.58	9.59	0.006	+/- 0.030 [a]
Tetrachloro-m-xylene	2	SURR	2.29	2.29	2.29	2.29	0.000	+/- 0.030 [a]
Decachlorobiphenyl	2	SURR	11.61	11.60	11.61	11.61	0.006	+/- 0.030 [a]
alpha-BHC	1	REG	2.25	2.25	2.25	2.25	0.000	+/- 0.030 [a]
gamma-BHC (Lindane)	1	REG	2.57	2.57	2.56	2.57	0.006	+/- 0.030 [a]
beta-BHC	1	REG	2.65	2.65	2.65	2.65	0.000	+/- 0.030 [a]
delta-BHC	1	REG	2.84	2.84	2.84	2.84	0.000	+/- 0.030 [a]
Heptachlor	1	REG	3.09	3.09	3.08	3.09	0.006	+/- 0.030 [a]
Aldrin	1	REG	3.43	3.43	3.43	3.43	0.000	+/- 0.030 [a]
Heptachlor epoxide	1	REG	4.17	4.17	4.16	4.17	0.006	+/- 0.030 [a]
gamma-Chlordane	1	REG	4.34	4.34	4.34	4.34	0.000	+/- 0.030 [a]
alpha-Chlordane	1	REG	4.52	4.52	4.51	4.52	0.006	+/- 0.030 [a]
4,4'-DDE	1	REG	4.66	4.66	4.65	4.66	0.006	+/- 0.030 [a]
Endosulfan-I	1	REG	4.69	4.69	4.69	4.69	0.000	+/- 0.030 [a]
Dieldrin	1	REG	5.03	5.03	5.03	5.03	0.000	+/- 0.030 [a]
Endrin	1	REG	5.36	5.36	5.36	5.36	0.000	+/- 0.030 [a]
4,4'-DDD	1	REG	5.53	5.53	5.52	5.53	0.006	+/- 0.030 [a]
Endosulfan-II	1	REG	5.70	5.70	5.70	5.70	0.000	+/- 0.030 [a]
4,4'-DDT	1	REG	5.97	5.97	5.96	5.97	0.006	+/- 0.030 [a]
Endrin aldehyde	1	REG	6.36	6.36	6.36	6.36	0.000	+/- 0.030 [a]
Methoxychlor	1	REG	6.84	6.84	6.83	6.84	0.006	+/- 0.030 [a]
Mirex	1	REG	6.94	6.94	6.94	6.94	0.000	+/- 0.030 [a]
Endosulfan sulfate	1	REG	7.09	7.09	7.08	7.09	0.006	+/- 0.030 [a]
Endrin ketone	1	REG	7.56	7.56	7.55	7.56	0.006	+/- 0.030 [a]
alpha-BHC	2	REG	3.00	3.00	3.00	3.00	0.000	+/- 0.030 [a]
gamma-BHC (Lindane)	2	REG	3.45	3.45	3.45	3.45	0.000	+/- 0.030 [a]
beta-BHC	2	REG	3.55	3.55	3.54	3.55	0.006	+/- 0.030 [a]
delta-BHC	2	REG	3.96	3.96	3.95	3.96	0.006	+/- 0.030 [a]
Heptachlor	2	REG	4.05	4.05	4.05	4.05	0.000	+/- 0.030 [a]
Aldrin	2	REG	4.52	4.52	4.52	4.52	0.000	+/- 0.030 [a]
Heptachlor epoxide	2	REG	5.39	5.39	5.39	5.39	0.000	+/- 0.030 [a]
gamma-Chlordane	2	REG	5.70	5.69	5.69	5.69	0.006	+/- 0.030 [a]
alpha-Chlordane	2	REG	5.94	5.94	5.93	5.94	0.006	+/- 0.030 [a]
Endosulfan-I	2	REG	6.03	6.03	6.03	6.03	0.000	+/- 0.030 [a]
4,4'-DDE	2	REG	6.24	6.24	6.23	6.24	0.006	+/- 0.030 [a]
Dieldrin	2	REG	6.50	6.50	6.50	6.50	0.000	+/- 0.030 [a]
Endrin	2	REG	7.04	7.04	7.03	7.04	0.006	+/- 0.030 [a]

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC6G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	6G36064.D	06/10/16 17:59	G6G1034-ICC1034	DHARAS
Std#2	6G36074.D	06/10/16 20:44	G6G1035-CC1034	DHARAS
Std#3	6G36096.D	06/13/16 09:27	G6G1036-CC1034	DHARAS

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
4,4'-DDD	2	REG	7.27	7.27	7.26	7.27	0.006	+/- 0.030 [a]
Endosulfan-II	2	REG	7.42	7.42	7.42	7.42	0.000	+/- 0.030 [a]
4,4'-DDT	2	REG	7.84	7.84	7.84	7.84	0.000	+/- 0.030 [a]
Endrin aldehyde	2	REG	8.05	8.05	8.04	8.05	0.006	+/- 0.030 [a]
Endosulfan sulfate	2	REG	8.56	8.56	8.56	8.56	0.000	+/- 0.030 [a]
Methoxychlor	2	REG	9.22	9.22	9.21	9.22	0.006	+/- 0.030 [a]
Mirex	2	REG	9.51	9.51	9.51	9.51	0.000	+/- 0.030 [a]
Endrin ketone	2	REG	9.60	9.60	9.60	9.60	0.000	+/- 0.030 [a]

(a) Default minimum StdDev of .01 minutes employed.

Initial Calibration Summary

Laboratory DRAFT - Not for Release

Sample: G6G1034-ICC1034
Lab FileID: 6G36064.D

Response Factor Report HP G1530A

Method : C:\MSDCHEM\1\METHODS\6PST1034.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 13 12:02:56 2016
Response via : Initial Calibration

Calibration Files
2 =6g36061.D 5 =6g36062.D 10 =6g36063.D 25 =6g36064.D
50 =6g36065.D 100 =6g36067.D 1 =6g36060.D 75 =6g36066.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	----------ISTD----------									
2) Tetrachloro-	0.946	0.923	0.914	0.897	0.939	0.978	1.051	0.938	0.948	5.03
3) alpha-BHC	1.109	1.111	1.130	1.205	1.335	1.470	1.256	1.367	1.248	10.71
4) gamma-BHC	1.033	1.065	1.074	1.130	1.226	1.329	1.180	1.249	1.161	8.91
5) Heptachlor	1.117	1.091	1.072	1.095	1.163	1.245	1.239	1.176	1.150	5.84
6) beta-BHC	0.583	0.574	0.563	0.543	0.552	0.565	0.700	0.545	0.578	8.83
7) delta-BHC	1.137	1.034	1.006	1.078	1.201	1.313	1.218	1.216	1.150	9.14
8) Aldrin	1.022	1.006	1.004	1.044	1.126	1.213	1.125	1.140	1.085	7.04
9) Heptachlor E	1.012	1.001	0.981	0.992	1.040	1.097	1.208	1.042	1.047	7.15
10) gamma-Chlord	1.053	1.093	1.008	1.004	1.054	1.126	1.370	1.063	1.096	10.74
11) alpha-Chlord	1.044	1.010	0.995	0.993	1.041	1.102	1.236	1.045	1.058	7.57
12) Endosulfan I	1.117	1.099	1.065	1.061	1.109	1.154	1.323	1.088	1.127	7.52
13) 4,4'-DDE	0.677	0.681	0.683	0.740	0.816	0.927	0.846	0.865	0.779	12.43
14) Dieldrin	0.947	0.945	0.936	0.968	1.038	1.119	1.107	1.057	1.015	7.41
15) Endrin	0.902	0.893	0.877	0.888	0.946	1.009	0.950	0.955	0.928	4.86
16) 4,4'-DDD	0.656	0.660	0.696	0.708	0.752	0.804	0.864	0.764	0.738	9.79
17) Endosulfan I	0.909	0.891	0.905	0.907	0.941	0.993	1.092	0.954	0.949	7.04
18) 4,4'-DDT	0.647	0.648	0.653	0.679	0.739	0.834	0.755	0.775	0.716	9.74
19) Endrin Aldeh	0.739	0.742	0.713	0.727	0.743	0.768	0.803	0.739	0.747	3.68
20) Endosulfan S	0.774	0.767	0.753	0.763	0.795	0.838	0.952	0.803	0.806	8.10
21) Methoxychlor	0.403	0.413	0.402	0.394	0.413	0.429	0.518	0.415	0.423	9.35
22) Mirex	0.921	0.906	0.866	0.827	0.806	0.810	1.111	0.792	0.880	11.89
23) Endrin Keton	0.886	0.891	0.873	0.895	0.929	0.980	0.902	0.943	0.912	3.91
24) Decachlorobi	0.994	0.982	0.912	0.874	0.854	0.853	1.136	0.841	0.931	10.95
25) I 1-bromo-2-nitrobenzen	----------ISTD----------									
26) Toxaphene{A}					0.015				0.015	0.00
27) Toxaphene{B}					0.040				0.040	0.00
28) Toxaphene{C}					0.045				0.045	0.00
29) Toxaphene{D}					0.041				0.041	0.00
30) Toxaphene{E}					0.029				0.029	0.00
31) I 1-bromo-2-nitrobenzen	----------ISTD----------									
32) Chlordane {A					0.035				0.035	0.00
33) Chlordane {B					0.050				0.050	0.00
34) Chlordane {C					0.155				0.155	0.00
35) Chlordane {D					0.227				0.227	0.00
36) Chlordane {E					0.037				0.037	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	----------ISTD----------									
2) Tetrachloro-	0.947	1.002	0.948	0.969	1.003	1.051	1.177	1.000	1.012	7.41
3) alpha-BHC	1.060	1.025	1.040	1.162	1.335	1.521	1.241	1.394	1.222	14.95
4) gamma-BHC	0.959	0.978	1.012	1.110	1.250	1.398	1.159	1.293	1.145	13.94

11.7.1 11

SGS ACCUTEST JC22206

Initial Calibration Summary

Laboratory DRAFT - Not for Release

Sample: G6G1034-ICC1034
Lab FileID: 6G36064.D

5)	Heptachlor	1.111	1.101	1.102	1.167	1.273	1.403	1.156	1.301	1.202	9.27
6)	beta-BHC	0.562	0.559	0.556	0.573	0.598	0.626	0.741	0.595	0.601	10.20
7)	delta-BHC	0.961	0.979	0.935	1.049	1.189	1.340	1.106	1.235	1.099	13.22
8)	Aldrin	1.005	0.999	1.042	1.103	1.210	1.347	1.255	1.244	1.150	11.38
9)	Heptachlor E	1.111	1.020	1.022	1.082	1.152	1.251	1.358	1.171	1.146	10.08
10)	gamma-Chlord	1.170	1.035	1.041	1.096	1.179	1.286	1.267	1.199	1.159	8.19
11)	alpha-Chlord	1.129	1.049	1.057	1.111	1.186	1.281	1.372	1.198	1.173	9.49
12)	Endosulfan I	1.029	1.001	0.978	1.033	1.091	1.176	1.261	1.105	1.084	8.84
13)	4,4'-DDE	1.004	0.906	0.905	0.969	1.051	1.164	0.864	1.085	0.994	10.31
14)	Dieldrin	1.017	0.948	0.969	1.034	1.126	1.248	1.046	1.161	1.069	9.54
15)	Endrin	0.946	0.933	0.881	0.968	1.025	1.120	0.903	1.047	0.978	8.22
16)	4,4'-DDD	0.780	0.747	0.719	0.766	0.808	0.914	1.024	0.854	0.826	12.22
17)	Endosulfan I	0.919	0.921	0.947	0.971	1.011	1.100	1.032	1.047	0.994	6.55
18)	4,4'-DDT	0.649	0.670	0.660	0.726	0.812	0.946	0.766	0.871	0.763	14.11
19)	Endrin Aldeh	0.786	0.773	0.775	0.831	0.854	0.890	0.844	0.853	0.826	5.20
20)	Endosulfan S	0.887	0.865	0.829	0.869	0.907	0.963	0.939	0.921	0.898	4.87
21)	Methoxychlor	0.444	0.429	0.442	0.470	0.483	0.516	0.579	0.494	0.482	10.13
22)	Mirex	1.072	1.014	0.997	1.023	0.982	1.012	1.214	0.992	1.038	7.33
23)	Endrin Keton	0.886	0.909	0.902	0.987	1.039	1.116	0.973	1.066	0.985	8.51
24)	Decachlorobi	1.265	1.231	1.186	1.159	1.143	1.139	1.479	1.131	1.217	9.54

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.023	0.023	0.00
27)	Toxaphene{B}	0.030	0.030	0.00
28)	Toxaphene{C}	0.049	0.049	0.00
29)	Toxaphene{D}	0.030	0.030	0.00
30)	Toxaphene{E}	0.026	0.026	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.036	0.036	0.00
33)	Chlordane {B	0.049	0.049	0.00
34)	Chlordane {C	0.160	0.160	0.00
35)	Chlordane {D	0.264	0.264	0.00
36)	Chlordane {E	0.037	0.037	0.00

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

6PST1034.M Mon Jun 13 14:06:25 2016

11.7.1 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1047

Print Analyst Name: Dhara Suparia

Date: 6/27/16

Analyst Signature:

Columns: ZBCLP I / ZBCLP II

Method: 8081

Initial Cal. Method: G8S11034

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161932-80	DB	20 PPB
-5	REM	10-250 PPB
-91A	Pest mix	25 PPB
-91B	Pest mix	50 PPB
-84	Pest ISTD	5 PPM
162790	Hexane (Blank)	-

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: 6/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6236590	ddt				1		/	/	OK	
	591	CC103H-50				4		/	/	OK	
	592	DB				3		/	/	OK	
	593	OP94557-MS1	94557	8081 TCL	W	5		/	/	OK	
	594	-MS1				6		/	/	OK	
	595	JC22243-1				7		/	/	OK	
	596	OP94557-MS				8				Not Run	cut from sequence
	597	-MSD				9				Not Run	
	598	JC22243-2				10				Not Run	
	599	-3				11				Not Run	cut from sequence
	600	JC22320-21	95064	8081 CHL		12	5	/	/	OK	Run before 6236595
	601	OP95109-MS1	95109	8081 SCO	S	13		/	/	OK	Run before seq 6236596
	602	-MS1				14		/	/	OK	
	603	JC22039-1				15		/	/	OK	
	604	-2				16		/	/	OK	
	605	-3				17		/	/	OK	
	606	-4				18		/	/	OK	
	607	OP95109-MS				19		/	/	OK	
	608	-MSD				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

Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1047

Print Analyst Name: Dhara Saporiy

Analyst Signature:

Date: 6/27/16

Columns: 2ACEPT / 2ACEPT

Method 8081

Initial Cal. Method G6IT1034

Injection Volume: 1.0ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161433-80	IB	20 ppb
-84	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-91A	Pest mix	25 ppb
-91B	Pest mix	50 ppb
162790	Hexane (Hism)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6236609	JC22034-5	95109	8081 CCO	S	21		/	/	ok	run before 6236596
	610	-6				22		/	/	ok	
	611	-7				23		/	/	ok	
	612	-8				24		/	/	ok	
	613	JC21958-1		TCL		25		/	/	OK	
	614	-11				26		/	/	OK	
	615	-11				27	10	/	/	OK	
	616	ddt				21		/	/	OK	
	617	cc1034-25				2		/	/	OK	2CHL 1st
	618	ib				3		/	/	OK	
	619	OP94861-MS1	94861	8081 TCL	W	5		/	/	OK	
	620	-MSD1				6		/	/	OK	
	621	JC22206-4				7		/	/	OK	
	622	-5				8		/	/	OK	
	623	-6				9		/	/	OK	
	624	-7				10		/	/	OK	
	625	-8				11		1st / 2nd	/	OK	SR 1:5
	626	-9				12		/	/	OK	
	629	OP94861-MS				13		/	/	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

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G 1047

Print Analyst Name: Dhara Saluria

Date: 6/27/16

Analyst Signature:

Columns: 2ACCPD / 2ACCPD

Method 8081

Initial Cal. Method G8S71034

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161533-80	IB	2ppb
-89	Pest ISTD	5ppm
-51	PEM	10-250ppb
-91A	Pest mix	25ppb
-91B	Pest mix	50ppb
162740	hexac (hole)	—
SV161533-99	TBA	—

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: JL **Date:** 6/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	G236628	OP94861-MSD	94861	8081 TCL	W	14				OK	
	629	JC22206-10				15				OK	
	630	-11				16				OK	
	631	OP94857-MS	94857	8081 TCL	W	17				OK	
	632	-MSD				18				OK	
	633	JC22243-2				19				OK	
	634	-3				20				OK	
	635	OP95079-MS	95079	8081 TCL	W	21				OK	Run before see G236621
	636	-MSD				22				OK	
	637	JC22458-1				23				OK	
	638	CC10348-50				24				OK	DDE, methoxy ↓ 1st
	639	IB				3				OK	
	640	JC22613-7	95079	8081 TCL	W	24				OK	
	641	OP95079-MS				25				OK	
	642	-MSD				26				OK	
	643	JC22613-8				27				OK	
	644	OP95064-MS	95064	8081 TCL	S	28				OK	MAD TBA
	645	-MSD				29				OK	↓
	646	JC22815-1				30				OK	MAD TBA

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: G6G 1047

Print Analyst Name: Dhara suporia

Date: 6/27/16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16-3350	IS	2000ppb
-85	Pest ISTD	5ppm
-51	PCM	10-250ppb
-91A	Pest mix	25ppb
-91B	Pest mix	50ppb
162790	hexane (fisher)	—

Columns: 20 CLP I 20 CLP II

Method 8081

Initial Cal. Method GPST 1034

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: JP Date: 6/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6236047	JC22515-2	95064	8081 TCL	S	31				OK	
	6u1	-3				32				OK	
	649	-4				35				OK	

DK 6/28/16

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

11.7.2 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1048

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/28/16

Columns: ZBCLP I / ZBCLP II

Method 8081

Initial Cal. Method 6PST1034

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU16433-80	IB	20 ppb
-89	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-91A	Pest Mix	25 ppb
-91B	Pest Mix	50 ppb
162790	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: 7/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	log86650	ddt				1		/	/	OK	
	651	cc1634-25				2		/	/	OK	gchl ↓ 1st
	652	ib				3		/	/	OK	
	653	op95099-mbl	95099	8081 tcl	S	5			/	NG	↑ Rx Batch
	654	op95099-bsl				6			/	NG	Rx Batch EK, g BHC ↑
	655	op95134-mbl	95134	8081 tcl	S	7		/	/	OK	
	656	op95134-bsl				8		/	/	OK	
	657	jc22937-1				9		/	/	OK	missing % solids sample
	658	op95134-ms				10		/	/	OK	
	659	op95134-msd				11		/	/	OK	
	660	jc22941-8				12		/	/	OK	
	661	jc22941-11				13		/	/	OK	
	662	jc22829-8	95099	8081 tcl	S	14				Not Run	Rx MB, BS
	663	op95099-ms				15				Not Run	
	664	op95099-msd				16				Not Run	
	665	jc22836-8				17				Not Run	
	666	jc22831-9				18				Not Run	
	667	jc22644-1				19				Not Run	
	668	jc22760-1				20				Not Run	

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

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1048

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/28/16

Columns: ZBCLPI / ZBCLPII

Method 8081

Initial Cal. Method 6PST1034

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16F33-80	IB	20 ppb
-89	Pest ISTD	5 ppm
-51	PCM	10-250 ppb
-91A	Pest Mix	25 ppb
-91B	Pest Mix	50 ppb
162196	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: 7/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g36669	JC 22914-1	95099	8081 tcl	S	21				Not Run	Rx MB, BS
	670	JC 22914-2				22				not using	cut from sequence
	671	JC 22914-3				23				not using	cut from sequence
	670	JC 22206-8	94861	8081 tcl	W	~~22~~ 23	5	/	/	OK	run before 6g36655
	671	JC 22175-3	94807			~~23~~ 24	10	/	/	OK	run after 6g36672, before 6g36655
	672	ddt				1		/	/	OK	
	673	CC1034-50				4		/	/	OK	
	674	ib				3		/	/	OK	
	675	cp94760-mbl	94760	8081	S	5		/	/	ok	Test
	676	cp95027-mbl	95027	8081	S	6		/	/	ok	↓
	677	cp94976-mbl	94976	8081	W	7		/	/	ok	
	678	cp94930-mbl	94930	8081	S	8		/	/	ok	
	679	cp94930-bs1				9		/	/	ok	
	680	cp94936-mbl	94936	8081	S	10		/	/	ok	
	681	cp94936-bs1				11		/	/	ok	
	682	cp94935-mbl	94935	8081	S	12		/	/	ok	
	683	cp94935-bs1				13		/	/	ok	
	684	mb1K	91203		W	14		/	/	ok	
	685	bs1K				15		/	/	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

11.7.3 11

SGS ACCUTEST JC22206

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G6G1048

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/28/16

Columns: ZBCL.PI/ZBCL.PII

Method 8081

Initial Cal. Method 6PST1034

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1648350	IB	20 ppb
-89	Pest ISTD	5 ppm
-51	PCM	10-25 ppb
-91A	Pest mix	75 ppb
-91B	Pest mix	50 ppb
162790	Mexcore (fishes)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	6g36686	bs2K	81203		W	16		/	/	ok	
	687	bs3K				17		/	/	ok	
	688	bs4K				18		/	/	ok	
	680 ~~689~~	JC22175-3	94807			19	10	/	/	ok	Run Before 6g 36681
		AR 6/28/16									

AR 6/29/16

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

LOGBOOK ID: 6-1766

Pest/PCB Extraction Log - Aqueous

Date Started: 6/17/16 Time Started: 19:05
Date Finished: 6/17/16 Time Finished: 23:00

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # GC 94861	RACK# Pest 23
Extracted by:	RF
Concentrated by:	RF/GM
Vialed by:	GM
Relinquished by:	
Accepted by:	
Supervisor Review:	6/17/16

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:

	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		✓			
	JC22206-9 MS		4	4	1-yellow	940	clear	10		✓			
	MSD		6	4	1-yellow	930	clear	10		✓			
	BS												
	MS												
	MSD												
1	JC22206-4	Pest	1		1-yellow	930	clear	10		✓			
2	-5		1		1-yellow	950	clear	10		✓			
3	-6		2		1-yellow	960	clear	10		✓			
4	-7		2		1-yellow	930	clear	10		✓			
5	-8		2		orange	960	clear	10		✓			
6	-9		9		yellow	930	clear	10		✓			
7	-10		1		yellow	950	clear	10		✓			
8	-11		3		clear	920	clear	10		✓			
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	2	65	–	–	ok
Buchi Chiller	B2	10.9	–	–	ok
Waterbath (70-80°C)	3.7	75.7/75.3	-0.8/-0.1	75/75	N/A
Waterbath Chiller (GPM)	F2	3	–	–	2
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	opl6171213 5	400	1

WITNESS SIGN: GM SPIKE SIGN: RF

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	opl6177028 a	250 ppb	1
PCB			

WITNESS SIGN: GM SPIKE SIGN: RF

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162418	Fisher	3/60
HEXANE	162790	Fisher	50

REAGENT	LOT #	BRAND
Sodium Sulfate	158459	Fisher
Glass Wool	02Q12-2	Lab
Filter Paper		
Copper	opl6171210 6	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD: IS JC22206-9

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16