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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC19214

Sampling Dates: 04/26/16 - 04/27/16

Report to:

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

ATTN: Terry Taylor

Total number of pages in report: 552

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

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC19214

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC19214-1	04/26/16	13:35	TT	04/28/16	AQ	Ground Water	RA17-GWD
JC19214-1A	04/26/16	13:35	TT	04/28/16	AQ	Ground Water	RA17-GWD
JC19214-2	04/27/16	11:30	TT	04/28/16	AQ	Ground Water	RA17-GWS
JC19214-2A	04/27/16	11:30	TT	04/28/16	AQ	Ground Water	RA17-GWS

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC19214
Site:	BMSMC, Building 5 Area, PR	**Report Date**	5/6/2016 3:57:50 PM

On 04/28/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 5.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JC19214 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:** OP93443

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19069-1MS, JC19069-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP93443A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC19069-2MS, JC19069-2MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** F:GXY2772

- The data for SW846 8015C meets quality control requirements.
- JC19214-2A: Analysis performed at Accutest Laboratories, Orlando FL.
- JC19214-1A: Analysis performed at Accutest Laboratories, Orlando FL.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP93460

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

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

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

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Accutest New Jersey **Job No:** JC19214

Site: AMANYWP: BMSMC, Building 5 Area, PR **Report Date:** 5/3/2016 11:53:23 AM

2 Sample(s) were collected on 04/27/2016 and were received at SGS Accutest Southeast (SASE) on 04/29/2016 properly preserved, at 3.2 Deg. C and intact. These Samples received an SASE job number of JC19214. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8015C

Matrix: AQ **Batch ID:** GXY2772

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) JC19214-2AMS, JC19214-2AMSD were used as the QC samples indicated.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 3, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
GXY2772-IC2772	GCVOA	XY064080.D	Hexanol
GXY2772-IC2772	GCVOA	XY064081.D	Hexanol
GXY2772-IC2772	GCVOA	XY064082.D	Hexanol

3 Manual Integrations were found for JC19214

Summary of Hits

Job Number: JC19214
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 04/26/16 thru 04/27/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC19214-1	**RA17-GWD**					
1,4-Dioxane		19.2	1.1	0.73	ug/l	SW846 8270D
JC19214-1A	**RA17-GWD**					
No hits reported in this sample.						
JC19214-2	**RA17-GWS**					
1,4-Dioxane		10.5	1.1	0.73	ug/l	SW846 8270D
JC19214-2A	**RA17-GWS**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA17-GWD		
Lab Sample ID:	JC19214-1	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	F156641.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	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	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.6	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	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	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.32	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	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:	RA17-GWD		
Lab Sample ID:	JC19214-1	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	0.72	ug/l	
218-01-9	Chrysene	ND	1.1	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
123-91-1	1,4-Dioxane	19.2	1.1	0.73	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	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	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	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	0.41	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:	RA17-GWD		
Lab Sample ID:	JC19214-1	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	40%		10-110%
118-79-6	2,4,6-Tribromophenol	100%		39-149%
4165-60-0	Nitrobenzene-d5	99%		32-128%
321-60-8	2-Fluorobiphenyl	82%		35-119%
1718-51-0	Terphenyl-d14	69%		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:	RA17-GWD		
Lab Sample ID:	JC19214-1	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	3M60967.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		24-125%
321-60-8	2-Fluorobiphenyl	92%		19-127%
1718-51-0	Terphenyl-d14	82%		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:	RA17-GWD		
Lab Sample ID:	JC19214-1	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	1G122607.D	1	04/29/16	BP	04/28/16	OP93460	G1G3976
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0040	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0030	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0019	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0031	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0031	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0024	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0033	ug/l	
72-20-8	Endrin	ND	0.0067	0.0034	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0035	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0034	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0033	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0025	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0044	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0038	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		26-132%
877-09-8	Tetrachloro-m-xylene	78%		26-132%
2051-24-3	Decachlorobiphenyl	41%		10-118%
2051-24-3	Decachlorobiphenyl	40%		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:	RA17-GWD		
Lab Sample ID:	JC19214-1A	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XY064093.D	1	05/02/16	AFL	n/a	n/a	F:GXY2772
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	5.0	1.0	mg/l	
78-83-1	Isobutyl Alcohol	ND	5.0	1.0	mg/l	
67-63-0	Isopropyl Alcohol	ND	5.0	1.0	mg/l	
71-23-8	n-Propyl Alcohol	ND	5.0	1.0	mg/l	
71-36-3	n-Butyl Alcohol	ND	5.0	1.0	mg/l	
67-56-1	Methanol	ND	5.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	90%		73-123%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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:	RA17-GWS		
Lab Sample ID:	JC19214-2	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	F156642.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	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	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	5.6	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	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	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.32	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.23	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	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:	RA17-GWS		
Lab Sample ID:	JC19214-2	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	0.72	ug/l	
218-01-9	Chrysene	ND	1.1	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
123-91-1	1,4-Dioxane	10.5	1.1	0.73	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	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	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	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	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		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:	RA17-GWS		
Lab Sample ID:	JC19214-2	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	31%		10-110%
118-79-6	2,4,6-Tribromophenol	101%		39-149%
4165-60-0	Nitrobenzene-d5	99%		32-128%
321-60-8	2-Fluorobiphenyl	87%		35-119%
1718-51-0	Terphenyl-d14	81%		10-126%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA17-GWS		
Lab Sample ID:	JC19214-2	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	3M60968.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	93%		24-125%
321-60-8	2-Fluorobiphenyl	99%		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:	RA17-GWS		
Lab Sample ID:	JC19214-2	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	1G122608.D	1	04/29/16	BP	04/28/16	OP93460	G1G3976
Run #2							

	Initial Volume	Final Volume
Run #1	300 ml	2.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0040	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0030	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0019	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0031	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0031	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0024	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0033	ug/l	
72-20-8	Endrin	ND	0.0067	0.0034	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0035	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0034	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0033	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0025	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0044	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0038	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		26-132%
877-09-8	Tetrachloro-m-xylene	81%		26-132%
2051-24-3	Decachlorobiphenyl	40%		10-118%
2051-24-3	Decachlorobiphenyl	40%		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:	RA17-GWS		
Lab Sample ID:	JC19214-2A	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XY064094.D	1	05/02/16	AFL	n/a	n/a	F:GXY2772
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	5.0	1.0	mg/l	
78-83-1	Isobutyl Alcohol	ND	5.0	1.0	mg/l	
67-63-0	Isopropyl Alcohol	ND	5.0	1.0	mg/l	
71-23-8	n-Propyl Alcohol	ND	5.0	1.0	mg/l	
71-36-3	n-Butyl Alcohol	ND	5.0	1.0	mg/l	
67-56-1	Methanol	ND	5.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	101%		73-123%

(a) Analysis performed at Accutest Laboratories, Orlando FL.

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SGS ACCUTEST - NJ

CHAIN OF CUSTODY

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

PAGE 1 OF 1

801219536132

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # JC19214

Client / Reporting Information

Company Name: Anderson Mulholland Assc. Inc.
Street Address: 2700 Westchester
City State Zip: Purchase NY
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand, R. O'Reilly
Phone #:

Project Information

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

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

SVOC - Method 8270D
LMA - Method 8015B
Pesticides - Method 8081B
1,4 Dioxane + Naphthalene by Method 8270D SIM
2 x 500 mL Amber Fo/C RL 4-28-16

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	SVOC - Method 8270D	LMA - Method 8015B	Pesticides - Method 8081B	1,4 Dioxane + Naphthalene by Method 8270D SIM	2 x 500 mL Amber Fo/C RL 4-28-16	LAB USE ONLY
-1	RA17-GWD		4/26/16	1335	TT	GW	7	3				4				X	X	X	X		E47
-2	RA17-GWS		4/27/16	1130	TT	GW	7	3				4				X	X	X	X		V1164

INITIAL ASESSMENT RL 2B

LABEL VERIFICATION

Turnaround Time (Business days)

- [x] Std. 10 Business Days For Soil
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For Aqueous
- [ ] other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

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

Comments / Special Instructions

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

Sample inventory is verified upon receipt in the Laboratory

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	[signature]	4/27/16 1500	Fed EX	FEDEX	950 4-28-16	[signature]
2						
3						
4						
5						

Custody Seal # 632 [x] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [x]

Cooler Temp. 5.0° FP

JC19214: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC19214 **Client:** _____ **Project:** _____

Date / Time Received: 4/28/2016 9:50:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0);

Cooler Temps (Corrected) °C: Cooler 1: (5.4);

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

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

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

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

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

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

JC19214: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC19214

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19214-1	Collected: 26-APR-16 13:35 By: TT		Received: 28-APR-16 By: RL			
RA17-GWD						
JC19214-1	SW846 8270D	29-APR-16 01:26	JJ	28-APR-16	YB	AB8270SL
JC19214-1	SW846 8081B	29-APR-16 10:25	BP	28-APR-16	SD	P8081PESTTCL
JC19214-1	SW846 8270D BY SIM	29-APR-16 11:27	AD	28-APR-16	YB	BSIM + NAP
JC19214-2	Collected: 27-APR-16 11:30 By: TT		Received: 28-APR-16 By: RL			
RA17-GWS						
JC19214-2	SW846 8270D	29-APR-16 01:54	JJ	28-APR-16	YB	AB8270SL
JC19214-2	SW846 8081B	29-APR-16 10:43	BP	28-APR-16	SD	P8081PESTTCL
JC19214-2	SW846 8270D BY SIM	29-APR-16 11:59	AD	28-APR-16	YB	BSIM + NAP
JC19214-1A	Collected: 26-APR-16 13:35 By: TT		Received: 28-APR-16 By: RL			
RA17-GWD						
JC19214-1A	SW846 8015C	02-MAY-16 19:18	AFL			D8015LMA
JC19214-2A	Collected: 27-APR-16 11:30 By: TT		Received: 28-APR-16 By: RL			
RA17-GWS						
JC19214-2A	SW846 8015C	02-MAY-16 19:39	AFL			D8015LMA

SGS Accutest Internal Chain of Custody

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 04/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19214-1.1	Secured Storage	Nicholas Goydish	04/28/16 12:13	Retrieve from Storage
JC19214-1.1	Bruce Scholz		04/30/16 10:05	Depleted
Analyst unavailable for custody transfer.				
JC19214-1.1.1	Nicholas Goydish	Organics Prep	04/28/16 12:14	Extract from JC19214-1.1
JC19214-1.1.1	Organics Prep	Yaw Britwum	04/28/16 15:14	Extract from JC19214-1.1
JC19214-1.1.1	Yaw Britwum	Extract Storage	04/28/16 15:14	Return to Storage
JC19214-1.1.1	Extract Storage	Julius Johnson	04/28/16 23:46	Retrieve from Storage
JC19214-1.1.1	Julius Johnson	GCMSF	04/28/16 23:46	Load on Instrument
JC19214-1.1.1	GCMSF	Ashley Dye	04/29/16 11:11	Unload from Instrument
JC19214-1.1.1	Ashley Dye	GCMS3M	04/29/16 11:11	Load on Instrument
JC19214-1.1.1	GCMS3M	Linsey Kirschmann	05/02/16 14:15	Unload from Instrument
JC19214-1.1.1	Linsey Kirschmann	Extract Freezer	05/02/16 14:15	Return to Storage
JC19214-1.4	Secured Storage	Ryan Fantasia	04/28/16 15:03	Retrieve from Storage
JC19214-1.4	Ryan Fantasia		04/28/16 23:09	Depleted
JC19214-1.4.1	Ryan Fantasia	Organics Prep	04/28/16 15:30	Extract from JC19214-1.4
JC19214-1.4.1	Organics Prep	Stephen Domke	04/28/16 22:47	Extract from JC19214-1.4
JC19214-1.4.1	Stephen Domke	Extract Storage	04/28/16 22:47	Return to Storage
JC19214-1.4.1	Extract Storage	Brittany Piercy	04/29/16 09:52	Retrieve from Storage
JC19214-1.4.1	Brittany Piercy	GC1G	04/29/16 09:52	Load on Instrument
JC19214-1.4.1	GC1G	Brittany Piercy	05/04/16 09:21	Unload from Instrument
JC19214-1.4.1	Brittany Piercy	Extract Freezer	05/04/16 09:21	Return to Storage
JC19214-1.5	Secured Storage	Robert Lofrano	04/28/16 14:47	Retrieve from Storage
JC19214-1.5	Robert Lofrano		04/28/16 14:50	Subcontract
JC19214-1.6	Secured Storage	Robert Lofrano	04/28/16 14:47	Retrieve from Storage
JC19214-1.6	Robert Lofrano		04/28/16 14:50	Subcontract
JC19214-1.7	Secured Storage	Robert Lofrano	04/28/16 14:47	Retrieve from Storage
JC19214-1.7	Robert Lofrano		04/28/16 14:50	Subcontract
JC19214-2.1	Secured Storage	Nicholas Goydish	04/28/16 12:13	Retrieve from Storage
JC19214-2.1	Bruce Scholz		04/30/16 10:05	Depleted
Analyst unavailable for custody transfer.				
JC19214-2.1.1	Nicholas Goydish	Organics Prep	04/28/16 12:14	Extract from JC19214-2.1
JC19214-2.1.1	Organics Prep	Yaw Britwum	04/28/16 15:14	Extract from JC19214-2.1
JC19214-2.1.1	Yaw Britwum	Extract Storage	04/28/16 15:14	Return to Storage
JC19214-2.1.1	Extract Storage	Julius Johnson	04/28/16 23:46	Retrieve from Storage
JC19214-2.1.1	Julius Johnson	GCMSF	04/28/16 23:46	Load on Instrument
JC19214-2.1.1	GCMSF	Ashley Dye	04/29/16 11:11	Unload from Instrument

SGS Accutest Internal Chain of Custody

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 04/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC19214-2.1.1	Ashley Dye	GCMS3M	04/29/16 11:11	Load on Instrument
JC19214-2.1.1	GCMS3M	Linsey Kirschmann	05/02/16 14:15	Unload from Instrument
JC19214-2.1.1	Linsey Kirschmann	Extract Freezer	05/02/16 14:15	Return to Storage
JC19214-2.4	Secured Storage	Ryan Fantasia	04/28/16 15:03	Retrieve from Storage
JC19214-2.4	Ryan Fantasia		04/28/16 23:09	Depleted
JC19214-2.4.1	Ryan Fantasia	Organics Prep	04/28/16 15:30	Extract from JC19214-2.4
JC19214-2.4.1	Organics Prep	Stephen Domke	04/28/16 22:47	Extract from JC19214-2.4
JC19214-2.4.1	Stephen Domke	Extract Storage	04/28/16 22:47	Return to Storage
JC19214-2.4.1	Extract Storage	Brittany Piercy	04/29/16 09:52	Retrieve from Storage
JC19214-2.4.1	Brittany Piercy	GC1G	04/29/16 09:52	Load on Instrument
JC19214-2.4.1	GC1G	Brittany Piercy	05/04/16 09:21	Unload from Instrument
JC19214-2.4.1	Brittany Piercy	Extract Freezer	05/04/16 09:21	Return to Storage
JC19214-2.5	Secured Storage	Robert Lofrano	04/28/16 14:47	Retrieve from Storage
JC19214-2.5	Robert Lofrano		04/28/16 14:50	Subcontract
JC19214-2.6	Secured Storage	Robert Lofrano	04/28/16 14:47	Retrieve from Storage
JC19214-2.6	Robert Lofrano		04/28/16 14:50	Subcontract
JC19214-2.7	Secured Storage	Robert Lofrano	04/28/16 14:47	Retrieve from Storage
JC19214-2.7	Robert Lofrano		04/28/16 14:50	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: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-MB1	F156637.D	1	04/28/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

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: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-MB1	F156637.D	1	04/28/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

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: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-MB1	F156637.D	1	04/28/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	61%	14-88%
4165-62-2	Phenol-d5	40%	10-110%
118-79-6	2,4,6-Tribromophenol	123%	39-149%
4165-60-0	Nitrobenzene-d5	118%	32-128%
321-60-8	2-Fluorobiphenyl	100%	35-119%
1718-51-0	Terphenyl-d14	100%	10-126%

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

Method Blank Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443A-MB1	3M60965.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867

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

JC19214-1, JC19214-2

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	68%	14-81%
4165-62-2	Phenol-d5	43%	11-54%
118-79-6	2,4,6-Tribromophenol	115%	35-145%
4165-60-0	Nitrobenzene-d5	116%	24-125%
321-60-8	2-Fluorobiphenyl	115%	19-127%
1718-51-0	Terphenyl-d14	114%	10-119%

Blank Spike Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-BS1	F156638.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	40.8	82	48-106
59-50-7	4-Chloro-3-methyl phenol	50	47.4	95	49-113
120-83-2	2,4-Dichlorophenol	50	40.0	80	49-111
105-67-9	2,4-Dimethylphenol	50	45.2	90	42-117
51-28-5	2,4-Dinitrophenol	100	90.2	90	37-132
534-52-1	4,6-Dinitro-o-cresol	50	50.3	101	49-119
95-48-7	2-Methylphenol	50	42.1	84	42-103
	3&4-Methylphenol	50	39.9	80	39-110
88-75-5	2-Nitrophenol	50	40.3	81	49-114
100-02-7	4-Nitrophenol	50	38.6	77	16-95
87-86-5	Pentachlorophenol	50	46.9	94	30-136
108-95-2	Phenol	50	24.7	49	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	42.0	84	47-118
95-95-4	2,4,5-Trichlorophenol	50	41.4	83	55-116
88-06-2	2,4,6-Trichlorophenol	50	44.5	89	56-115
83-32-9	Acenaphthene	50	38.3	77	54-112
208-96-8	Acenaphthylene	50	36.8	74	49-99
98-86-2	Acetophenone	50	53.2	106	52-111
120-12-7	Anthracene	50	41.9	84	58-112
1912-24-9	Atrazine	50	50.1	100	62-134
100-52-7	Benzaldehyde	50	44.4	89	40-129
56-55-3	Benzo(a)anthracene	50	41.6	83	44-120
50-32-8	Benzo(a)pyrene	50	43.1	86	41-127
205-99-2	Benzo(b)fluoranthene	50	44.4	89	41-129
191-24-2	Benzo(g,h,i)perylene	50	43.6	87	34-128
207-08-9	Benzo(k)fluoranthene	50	44.5	89	42-122
101-55-3	4-Bromophenyl phenyl ether	50	43.0	86	54-121
85-68-7	Butyl benzyl phthalate	50	41.8	84	20-143
92-52-4	1,1'-Biphenyl	50	40.4	81	51-106
91-58-7	2-Chloronaphthalene	50	35.4	71	48-104
106-47-8	4-Chloroaniline	50	30.6	61	10-110
86-74-8	Carbazole	50	42.5	85	56-110
105-60-2	Caprolactam	50	11.2	22	10-110
218-01-9	Chrysene	50	41.6	83	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	41.2	82	47-117
111-44-4	bis(2-Chloroethyl)ether	50	45.6	91	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-BS1	F156638.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	37.6	75	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	40.8	82	50-117
121-14-2	2,4-Dinitrotoluene	50	46.6	93	57-122
606-20-2	2,6-Dinitrotoluene	50	43.9	88	58-122
91-94-1	3,3'-Dichlorobenzidine	100	66.0	66	10-110
123-91-1	1,4-Dioxane	50	22.3	45	10-110
53-70-3	Dibenzo(a,h)anthracene	50	46.3	93	36-130
132-64-9	Dibenzofuran	50	40.8	82	55-108
84-74-2	Di-n-butyl phthalate	50	45.7	91	45-123
117-84-0	Di-n-octyl phthalate	50	42.7	85	37-144
84-66-2	Diethyl phthalate	50	45.7	91	23-130
131-11-3	Dimethyl phthalate	50	44.2	88	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	42.5	85	36-138
206-44-0	Fluoranthene	50	45.0	90	58-116
86-73-7	Fluorene	50	42.6	85	57-113
118-74-1	Hexachlorobenzene	50	48.5	97	49-122
87-68-3	Hexachlorobutadiene	50	33.9	68	24-112
77-47-4	Hexachlorocyclopentadiene	100	69.8	70	14-119
67-72-1	Hexachloroethane	50	32.9	66	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.6	89	34-128
78-59-1	Isophorone	50	50.7	101	52-119
90-12-0	1-Methylnaphthalene	50	40.4	81	46-103
91-57-6	2-Methylnaphthalene	50	38.7	77	45-107
88-74-4	2-Nitroaniline	50	54.8	110	51-127
99-09-2	3-Nitroaniline	50	34.1	68	10-110
100-01-6	4-Nitroaniline	50	37.8	76	50-112
98-95-3	Nitrobenzene	50	48.6	97	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	53.0	106	49-117
86-30-6	N-Nitrosodiphenylamine	50	41.3	83	51-113
85-01-8	Phenanthrene	50	42.4	85	56-111
129-00-0	Pyrene	50	41.6	83	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	32.2	64	36-114

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-BS1	F156638.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	14-88%
4165-62-2	Phenol-d5	45%	10-110%
118-79-6	2,4,6-Tribromophenol	108%	39-149%
4165-60-0	Nitrobenzene-d5	104%	32-128%
321-60-8	2-Fluorobiphenyl	84%	35-119%
1718-51-0	Terphenyl-d14	95%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443A-BS12	3M60966.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867

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

JC19214-1, JC19214-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.723	72	40-119

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	44%	14-81%
4165-62-2	Phenol-d5	29%	11-54%
118-79-6	2,4,6-Tribromophenol	79%	35-145%
4165-60-0	Nitrobenzene-d5	65%	24-125%
321-60-8	2-Fluorobiphenyl	67%	19-127%
1718-51-0	Terphenyl-d14	93%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-MS	F156639.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
OP93443-MSD	F156640.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
JC19069-1	F156644.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Compound	JC19069-1 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		100	85.8	86	100	83.2	83	3	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	93.6	94	100	94.0	94	0	44-121/18
120-83-2	2,4-Dichlorophenol	ND		100	82.2	82	100	81.3	81	1	42-120/19
105-67-9	2,4-Dimethylphenol	ND		100	104	104	100	101	101	3	33-132/23
51-28-5	2,4-Dinitrophenol	ND		200	180	90	200	187	94	4	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		100	101	101	100	101	101	0	25-134/27
95-48-7	2-Methylphenol	ND		100	93.3	93	100	89.8	90	4	47-112/18
	3&4-Methylphenol	ND		100	92.2	92	100	90.6	91	2	44-113/19
88-75-5	2-Nitrophenol	ND		100	83.0	83	100	82.8	83	0	45-118/20
100-02-7	4-Nitrophenol	ND		100	113	113	100	110	110	3	23-144/28
87-86-5	Pentachlorophenol	ND		100	95.7	96	100	97.5	98	2	25-151/25
108-95-2	Phenol	ND		100	72.6	73	100	69.8	70	4	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	87.3	87	100	87.5	88	0	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		100	83.1	83	100	84.5	85	2	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		100	92.2	92	100	89.2	89	3	53-120/21
83-32-9	Acenaphthene	1.2		100	86.7	86	100	88.4	87	2	52-120/23
208-96-8	Acenaphthylene	ND		100	82.4	82	100	82.1	82	0	50-101/22
98-86-2	Acetophenone	ND		100	104	104	100	105	105	1	31-141/23
120-12-7	Anthracene	ND		100	86.6	87	100	86.9	87	0	54-117/22
1912-24-9	Atrazine	ND		100	99.7	100	100	99.0	99	1	42-152/23
100-52-7	Benzaldehyde	ND		100	91.1	91	100	87.6	88	4	10-164/30
56-55-3	Benzo(a)anthracene	ND		100	84.4	84	100	83.1	83	2	40-123/24
50-32-8	Benzo(a)pyrene	ND		100	87.0	87	100	87.0	87	0	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		100	88.3	88	100	89.3	89	1	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		100	87.6	88	100	84.9	85	3	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		100	90.7	91	100	89.0	89	2	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		100	89.3	89	100	88.4	88	1	51-124/23
85-68-7	Butyl benzyl phthalate	ND		100	84.2	84	100	85.3	85	1	21-146/28
92-52-4	1,1'-Biphenyl	ND		100	85.1	85	100	84.9	85	0	27-142/23
91-58-7	2-Chloronaphthalene	ND		100	83.0	83	100	83.3	83	0	51-109/23
106-47-8	4-Chloroaniline	ND		100	40.1	40	100	41.5	42	3	10-110/55
86-74-8	Carbazole	ND		100	85.5	86	100	83.7	84	2	52-116/22
105-60-2	Caprolactam	ND		100	36.7	37	100	34.4	34	6	10-106/34
218-01-9	Chrysene	ND		100	82.9	83	100	82.1	82	1	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		100	84.0	84	100	83.0	83	1	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		100	92.0	92	100	91.7	92	0	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-MS	F156639.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
OP93443-MSD	F156640.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
JC19069-1	F156644.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Compound	JC19069-1 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		100	79.5	80	100	80.1	80	1	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	90.8	91	100	90.0	90	1	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		100	93.2	93	100	93.7	94	1	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		100	90.6	91	100	92.7	93	2	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		200	113	57	200	116	58	3	10-107/47
123-91-1	1,4-Dioxane	ND		100	60.9	61	100	59.6	60	2	10-119/31
53-70-3	Dibenzo(a,h)anthracene	ND		100	92.7	93	100	91.6	92	1	35-130/27
132-64-9	Dibenzofuran	ND		100	84.8	85	100	83.9	84	1	53-112/22
84-74-2	Di-n-butyl phthalate	ND		100	92.7	93	100	92.5	93	0	38-129/23
117-84-0	Di-n-octyl phthalate	ND		100	86.0	86	100	86.5	87	1	35-145/26
84-66-2	Diethyl phthalate	ND		100	91.5	92	100	92.8	93	1	16-136/30
131-11-3	Dimethyl phthalate	ND		100	89.1	89	100	89.8	90	1	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	84.5	85	100	85.5	86	1	34-141/28
206-44-0	Fluoranthene	ND		100	90.7	91	100	90.5	91	0	47-123/24
86-73-7	Fluorene	ND		100	90.6	91	100	90.8	91	0	56-117/22
118-74-1	Hexachlorobenzene	ND		100	97.2	97	100	97.8	98	1	46-125/24
87-68-3	Hexachlorobutadiene	ND		100	82.6	83	100	81.1	81	2	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		200	176	88	200	180	90	2	10-133/31
67-72-1	Hexachloroethane	ND		100	84.1	84	100	79.7	80	5	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	88.4	88	100	87.9	88	1	32-130/30
78-59-1	Isophorone	ND		100	103	103	100	102	102	1	47-126/23
90-12-0	1-Methylnaphthalene	ND		100	83.7	84	100	84.1	84	0	34-124/25
91-57-6	2-Methylnaphthalene	ND		100	81.4	81	100	79.5	80	2	34-123/24
88-74-4	2-Nitroaniline	ND		100	108	108	100	108	108	0	46-137/23
99-09-2	3-Nitroaniline	ND		100	46.4	46	100	48.5	49	4	10-110/50
100-01-6	4-Nitroaniline	ND		100	76.2	76	100	74.3	74	3	38-118/25
98-95-3	Nitrobenzene	ND		100	101	101	100	100	100	1	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		100	108	108	100	106	106	2	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		100	86.0	86	100	83.7	84	3	46-123/24
85-01-8	Phenanthrene	ND		100	87.8	88	100	86.1	86	2	48-121/23
129-00-0	Pyrene	ND		100	84.1	84	100	83.4	83	1	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		100	79.5	80	100	80.3	80	1	25-142/24

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443-MS	F156639.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
OP93443-MSD	F156640.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595
JC19069-1	F156644.D	1	04/29/16	JJ	04/28/16	OP93443	EF6595

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

JC19214-1, JC19214-2

CAS No.	Surrogate Recoveries	MS	MSD	JC19069-1	Limits
367-12-4	2-Fluorophenol	79%	76%	54%	14-88%
4165-62-2	Phenol-d5	69%	66%	36%	10-110%
118-79-6	2,4,6-Tribromophenol	113%	112%	111%	39-149%
4165-60-0	Nitrobenzene-d5	105%	105%	106%	32-128%
321-60-8	2-Fluorobiphenyl	92%	91%	89%	35-119%
1718-51-0	Terphenyl-d14	94%	92%	84%	10-126%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93443A-MS	3M60969.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867
OP93443A-MSD	3M60970.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867
JC19069-2	3M60972.D	1	04/29/16	AD	04/28/16	OP93443A	E3M2867

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

JC19214-1, JC19214-2

CAS No.	Compound	JC19069-2 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	0.516		2	1.88	68	2	2.08	78	10	23-140/36

CAS No.	Surrogate Recoveries	MS	MSD	JC19069-2	Limits
367-12-4	2-Fluorophenol	61%	66%		14-81%
4165-62-2	Phenol-d5	48%	50%		11-54%
118-79-6	2,4,6-Tribromophenol	84%	91%		35-145%
4165-60-0	Nitrobenzene-d5	68%	77%	93%	24-125%
321-60-8	2-Fluorobiphenyl	75%	79%	80%	19-127%
1718-51-0	Terphenyl-d14	89%	100%	86%	10-119%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	238296	36.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	313116	47.6		Pass
70	Less than 2.0% of mass 69	3204	0.49	(1.02) [a]	Pass
127	40.0 - 60.0% of mass 198	329840	50.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	657712	100.0		Pass
199	5.0 - 9.0% of mass 198	45100	6.86		Pass
275	10.0 - 30.0% of mass 198	145467	22.1		Pass
365	1.0 - 100.0% of mass 198	14264	2.17		Pass
441	Present, but less than mass 443	68134	10.4	(81.8) [b]	Pass
442	40.0 - 100.0% of mass 198	425304	64.7		Pass
443	17.0 - 23.0% of mass 442	83298	12.7	(19.6) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2855-ICC2855	3M60763A.D	04/21/16	14:34	01:03	Initial cal 1
E3M2855-IC2855	3M60764A.D	04/21/16	15:07	01:36	Initial cal 0.5
E3M2855-IC2855	3M60765A.D	04/21/16	15:39	02:08	Initial cal 0.2
E3M2855-IC2855	3M60766.D	04/21/16	16:12	02:41	Initial cal 0.1
E3M2855-IC2855	3M60767.D	04/21/16	16:44	03:13	Initial cal 0.05
E3M2855-IC2855	3M60768.D	04/21/16	17:17	03:46	Initial cal 0.02
E3M2855-IC2855	3M60769.D	04/21/16	17:49	04:18	Initial cal 0.01
E3M2855-IC2855	3M60770.D	04/21/16	18:22	04:51	Initial cal 5.0
E3M2855-IC2855	3M60771.D	04/21/16	18:55	05:24	Initial cal 2.5
E3M2855-ICV2855	3M60772.D	04/21/16	19:27	05:56	Initial cal verification 1.0
E3M2855-ICV2855	3M60773.D	04/21/16	20:00	06:29	Initial cal verification 1.0
E3M2855-ICV2855	3M60774.D	04/21/16	20:35	07:04	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2867-DFTPP
Lab File ID: 3M60963.D
Instrument ID: GCMS3M
Injection Date: 04/29/16
Injection Time: 09:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	296991	36.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	394563	48.5		Pass
70	Less than 2.0% of mass 69	2118	0.26	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	410859	50.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	813355	100.0		Pass
199	5.0 - 9.0% of mass 198	54101	6.65		Pass
275	10.0 - 30.0% of mass 198	189381	23.3		Pass
365	1.0 - 100.0% of mass 198	19331	2.38		Pass
441	Present, but less than mass 443	89640	11.0	(80.9) [b]	Pass
442	40.0 - 100.0% of mass 198	559147	68.7		Pass
443	17.0 - 23.0% of mass 442	110843	13.6	(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
E3M2867-CC2855	3M60964.D	04/29/16	09:37	00:14	Continuing cal 0.5
OP93443A-MB1	3M60965.D	04/29/16	10:24	01:01	Method Blank
OP93443A-BS12	3M60966.D	04/29/16	10:56	01:33	Blank Spike
JC19214-1	3M60967.D	04/29/16	11:27	02:04	RA17-GWD
JC19214-2	3M60968.D	04/29/16	11:59	02:36	RA17-GWS
OP93443A-MS	3M60969.D	04/29/16	12:31	03:08	Matrix Spike
OP93443A-MSD	3M60970.D	04/29/16	13:03	03:40	Matrix Spike Duplicate
ZZZZZZ	3M60971.D	04/29/16	13:35	04:12	(unrelated sample)
JC19069-2	3M60972.D	04/29/16	14:06	04:43	(used for QC only; not part of job JC19214)
ZZZZZZ	3M60973.D	04/29/16	14:38	05:15	(unrelated sample)
ZZZZZZ	3M60974.D	04/29/16	15:10	05:47	(unrelated sample)
ZZZZZZ	3M60975.D	04/29/16	15:42	06:19	(unrelated sample)
ZZZZZZ	3M60976.D	04/29/16	16:14	06:51	(unrelated sample)
ZZZZZZ	3M60977.D	04/29/16	16:46	07:23	(unrelated sample)
ZZZZZZ	3M60978.D	04/29/16	17:17	07:54	(unrelated sample)
ZZZZZZ	3M60979.D	04/29/16	17:49	08:26	(unrelated sample)
ZZZZZZ	3M60980.D	04/29/16	18:21	08:58	(unrelated sample)
ZZZZZZ	3M60981.D	04/29/16	18:53	09:30	(unrelated sample)
ZZZZZZ	3M60982.D	04/29/16	19:25	10:02	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3M2867-DFTPP	**Injection Date:**	04/29/16
Lab File ID:	3M60963.D	**Injection Time:**	09:23
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3M60983.D	04/29/16	19:56	10:33	(unrelated sample)
ZZZZZZ	3M60984.D	04/29/16	20:28	11:05	(unrelated sample)
ZZZZZZ	3M60985.D	04/29/16	21:00	11:37	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	108584	30.9		Pass
68	Less than 2.0% of mass 69	596	0.17	(0.43) [a]	Pass
69	Mass 69 relative abundance	140032	39.9		Pass
70	Less than 2.0% of mass 69	642	0.18	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	175460	50.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	351082	100.0		Pass
199	5.0 - 9.0% of mass 198	23024	6.56		Pass
275	10.0 - 30.0% of mass 198	62466	17.8		Pass
365	1.0 - 100.0% of mass 198	5730	1.63		Pass
441	Present, but less than mass 443	29498	8.40	(76.5) [b]	Pass
442	40.0 - 100.0% of mass 198	194704	55.5		Pass
443	17.0 - 23.0% of mass 442	38575	11.0	(19.8) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6563-IC6563	F156051.D	04/04/16	19:09	00:15	Initial cal 100
EF6563-IC6563	F156052.D	04/04/16	19:38	00:44	Initial cal 80
EF6563-ICC6563	F156053.D	04/04/16	20:07	01:13	Initial cal 50
EF6563-IC6563	F156054.D	04/04/16	20:37	01:43	Initial cal 25
EF6563-IC6563	F156055.D	04/04/16	21:06	02:12	Initial cal 10
EF6563-IC6563	F156056.D	04/04/16	21:35	02:41	Initial cal 5
EF6563-IC6563	F156057.D	04/04/16	22:04	03:10	Initial cal 2
EF6563-IC6563	F156058.D	04/04/16	22:33	03:39	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	115179	32.1		Pass
68	Less than 2.0% of mass 69	157	0.04	(0.10) [a]	Pass
69	Mass 69 relative abundance	151437	42.2		Pass
70	Less than 2.0% of mass 69	785	0.22	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	186202	51.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	358677	100.0		Pass
199	5.0 - 9.0% of mass 198	23181	6.46		Pass
275	10.0 - 30.0% of mass 198	63472	17.7		Pass
365	1.0 - 100.0% of mass 198	5413	1.51		Pass
441	Present, but less than mass 443	27575	7.69	(79.8) [b]	Pass
442	40.0 - 100.0% of mass 198	177434	49.5		Pass
443	17.0 - 23.0% of mass 442	34561	9.64	(19.5) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6564-IC6564	F156060.D	04/04/16	23:27	00:21	Initial cal 100
EF6564-IC6564	F156061.D	04/04/16	23:56	00:50	Initial cal 80
EF6564-ICC6564	F156062.D	04/05/16	00:25	01:19	Initial cal 50
EF6564-IC6564	F156063.D	04/05/16	00:53	01:47	Initial cal 25
EF6564-IC6564	F156064.D	04/05/16	01:22	02:16	Initial cal 10
EF6564-IC6564	F156065.D	04/05/16	01:51	02:45	Initial cal 5
EF6564-IC6564	F156066.D	04/05/16	02:19	03:13	Initial cal 2
EF6564-IC6564	F156067.D	04/05/16	02:48	03:42	Initial cal 1
EF6564-ICV6563	F156069.D	04/05/16	03:46	04:40	Initial cal verification 50
EF6564-ICV6563	F156070.D	04/05/16	04:15	05:09	Initial cal verification 50
EF6564-ICV6563	F156071.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6564	F156071A.D	04/05/16	04:44	05:38	Initial cal verification 50
EF6564-ICV6563	F156072.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6564	F156072A.D	04/05/16	05:13	06:07	Initial cal verification 50
EF6564-ICV6563	F156073.D	04/05/16	05:42	06:36	Initial cal verification 50
EF6564-ICV6564	F156073A.D	04/05/16	05:42	06:36	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6566-DFTPP
Lab File ID: F156079.D
Instrument ID: GCMSF
Injection Date: 04/05/16
Injection Time: 13:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	118168	38.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	154947	50.1		Pass
70	Less than 2.0% of mass 69	884	0.29	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	166781	54.0		Pass
197	Less than 1.0% of mass 198	1052	0.34		Pass
198	Base peak, 100% relative abundance	308970	100.0		Pass
199	5.0 - 9.0% of mass 198	20614	6.67		Pass
275	10.0 - 30.0% of mass 198	57501	18.6		Pass
365	1.0 - 100.0% of mass 198	5929	1.92		Pass
441	Present, but less than mass 443	28422	9.20	(76.3) [b]	Pass
442	40.0 - 100.0% of mass 198	184536	59.7		Pass
443	17.0 - 23.0% of mass 442	37228	12.0	(20.2) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6566-IC6566	F156080.D	04/05/16	14:12	00:14	Initial cal 100
EF6566-IC6566	F156081.D	04/05/16	14:41	00:43	Initial cal 80
EF6566-ICC6566	F156082.D	04/05/16	15:11	01:13	Initial cal 50
EF6566-IC6566	F156083.D	04/05/16	15:40	01:42	Initial cal 25
EF6566-IC6566	F156084.D	04/05/16	16:08	02:10	Initial cal 10
EF6566-IC6566	F156085.D	04/05/16	16:37	02:39	Initial cal 5
EF6566-IC6566	F156086.D	04/05/16	17:06	03:08	Initial cal 2
EF6566-IC6566	F156087.D	04/05/16	17:35	03:37	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	102858	36.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	139965	49.1		Pass
70	Less than 2.0% of mass 69	764	0.27	(0.55) [a]	Pass
127	40.0 - 60.0% of mass 198	155093	54.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	284778	100.0		Pass
199	5.0 - 9.0% of mass 198	18151	6.37		Pass
275	10.0 - 30.0% of mass 198	55232	19.4		Pass
365	1.0 - 100.0% of mass 198	5389	1.89		Pass
441	Present, but less than mass 443	28740	10.1	(74.0) [b]	Pass
442	40.0 - 100.0% of mass 198	192210	67.5		Pass
443	17.0 - 23.0% of mass 442	38818	13.6	(20.2) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6567-IC6567	F156089.D	04/05/16	18:25	00:25	Initial cal 100
EF6567-IC6567	F156090.D	04/05/16	18:54	00:54	Initial cal 80
EF6567-ICC6567	F156091.D	04/05/16	19:23	01:23	Initial cal 50
EF6567-IC6567	F156092.D	04/05/16	19:51	01:51	Initial cal 25
EF6567-IC6567	F156093.D	04/05/16	20:20	02:20	Initial cal 10
EF6567-IC6567	F156094.D	04/05/16	20:49	02:49	Initial cal 5
EF6567-IC6567	F156095.D	04/05/16	21:18	03:18	Initial cal 2
EF6567-IC6567	F156096.D	04/05/16	21:47	03:47	Initial cal 1
EF6567-ICV6564	F156097.D	04/05/16	22:16	04:16	Initial cal verification 50
EF6567-ICV6567	F156098.D	04/05/16	22:45	04:45	Initial cal verification 50
EF6567-ICV6567	F156099.D	04/05/16	23:14	05:14	Initial cal verification 50
EF6567-ICV6567	F156100.D	04/05/16	23:43	05:43	Initial cal verification 50
EF6567-ICV6567	F156101.D	04/06/16	00:12	06:12	Initial cal verification 50
EF6567-ICV6566	F156102.D	04/06/16	00:41	06:41	Initial cal verification 50
EF6567-ICV6566	F156104.D	04/06/16	01:39	07:39	Initial cal verification 50
EF6567-ICV6566	F156105.D	04/06/16	02:08	08:08	Initial cal verification 50
EF6567-ICV6566	F156106.D	04/06/16	02:38	08:38	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6595-DFTPP
Lab File ID: F156632.D
Instrument ID: GCMSF
Injection Date: 04/28/16
Injection Time: 20:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	122104	39.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	177763	56.9		Pass
70	Less than 2.0% of mass 69	1029	0.33	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	175733	56.2		Pass
197	Less than 1.0% of mass 198	1428	0.46		Pass
198	Base peak, 100% relative abundance	312512	100.0		Pass
199	5.0 - 9.0% of mass 198	21234	6.79		Pass
275	10.0 - 30.0% of mass 198	67562	21.6		Pass
365	1.0 - 100.0% of mass 198	6835	2.19		Pass
441	Present, but less than mass 443	33287	10.7	(76.7) [b]	Pass
442	40.0 - 100.0% of mass 198	224656	71.9		Pass
443	17.0 - 23.0% of mass 442	43416	13.9	(19.3) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EF6595-CC6563	F156633.D	04/28/16	21:08	00:45	Continuing cal 50
EF6595-CC6564	F156634.D	04/28/16	21:37	01:14	Continuing cal 50
EF6595-CC6566	F156635.D	04/28/16	22:05	01:42	Continuing cal 50
OP93443-MB1	F156637.D	04/28/16	23:32	03:09	Method Blank
OP93443-BS1	F156638.D	04/29/16	00:01	03:38	Blank Spike
OP93443-MS	F156639.D	04/29/16	00:29	04:06	Matrix Spike
OP93443-MSD	F156640.D	04/29/16	00:57	04:34	Matrix Spike Duplicate
JC19214-1	F156641.D	04/29/16	01:26	05:03	RA17-GWD
JC19214-2	F156642.D	04/29/16	01:54	05:31	RA17-GWS
ZZZZZZ	F156643.D	04/29/16	02:22	05:59	(unrelated sample)
JC19069-1	F156644.D	04/29/16	02:51	06:28	(used for QC only; not part of job JC19214)
ZZZZZZ	F156645.D	04/29/16	03:19	06:56	(unrelated sample)
ZZZZZZ	F156646.D	04/29/16	03:47	07:24	(unrelated sample)
ZZZZZZ	F156647.D	04/29/16	04:16	07:53	(unrelated sample)
ZZZZZZ	F156648.D	04/29/16	04:44	08:21	(unrelated sample)
ZZZZZZ	F156649.D	04/29/16	05:12	08:49	(unrelated sample)
ZZZZZZ	F156650.D	04/29/16	05:40	09:17	(unrelated sample)
ZZZZZZ	F156651.D	04/29/16	06:08	09:45	(unrelated sample)
ZZZZZZ	F156652.D	04/29/16	06:37	10:14	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EF6595-DFTPP
Lab File ID: F156632.D
Instrument ID: GCMSF
Injection Date: 04/28/16
Injection Time: 20:23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F156653.D	04/29/16	07:05	10:42	(unrelated sample)
ZZZZZZ	F156654.D	04/29/16	07:33	11:10	(unrelated sample)
ZZZZZZ	F156655.D	04/29/16	08:01	11:38	(unrelated sample)
OP93417-MB1	F156660.D	04/29/16	09:55	13:32	Method Blank
OP93417-BS1	F156661.D	04/29/16	10:24	14:01	Blank Spike
OP93417-BS13	F156662.D	04/29/16	10:52	14:29	Blank Spike
OP93417-MS	F156663.D	04/29/16	11:21	14:58	Matrix Spike
OP93417-MSD	F156664.D	04/29/16	11:49	15:26	Matrix Spike Duplicate
ZZZZZZ	F156665.D	04/29/16	12:17	15:54	(unrelated sample)
JC19048-3	F156666.D	04/29/16	12:46	16:23	(used for QC only; not part of job JC19214)
ZZZZZZ	F156667.D	04/29/16	13:14	16:51	(unrelated sample)
ZZZZZZ	F156668.D	04/29/16	13:43	17:20	(unrelated sample)
ZZZZZZ	F156669.D	04/29/16	14:12	17:49	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2867-CC2855	**Injection Date:**	04/29/16
Lab File ID:	3M60964.D	**Injection Time:**	09:37
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	218939	10.49	319815	13.49	586019	17.70	469143	22.30
Upper Limit [a]	437878	10.99	639630	13.99	1172038	18.20	938286	22.80
Lower Limit [b]	109470	9.99	159908	12.99	293010	17.20	234572	21.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP93443A-MB1	224304	10.49	324402	13.49	542861	17.70	448813	22.30
OP93443A-BS12	239029	10.49	342423	13.49	565004	17.70	453180	22.30
JC19214-1	234854	10.49	337317	13.49	572923	17.70	448629	22.30
JC19214-2	219189	10.49	302434	13.49	516857	17.70	395463	22.30
OP93443A-MS	227862	10.49	323403	13.49	542650	17.70	430320	22.30
OP93443A-MSD	234441	10.49	339687	13.49	567642	17.70	457741	22.30
ZZZZZZ	197514	10.49	337641	13.49	585077	17.70	454515	22.30
JC19069-2	211821	10.49	358158	13.49	600081	17.70	480842	22.30
ZZZZZZ	221990	10.49	378053	13.49	645459	17.70	494470	22.30
ZZZZZZ	231340	10.49	391139	13.49	664302	17.70	531226	22.30
ZZZZZZ	255669	10.49	452562	13.49	772453	17.70	611270	22.30
ZZZZZZ	254663	10.49	422548	13.49	700426	17.70	572260	22.30
ZZZZZZ	266367	10.49	446610	13.49	769070	17.70	632182	22.30
ZZZZZZ	196216	10.49	335508	13.49	559548	17.70	437332	22.30
ZZZZZZ	170939	10.49	280769	13.49	465935	17.70	373638	22.30
ZZZZZZ	175472	10.49	293162	13.49	501277	17.70	399043	22.30
ZZZZZZ	229352	10.49	379770	13.49	655277	17.70	501493	22.30
ZZZZZZ	208409	10.49	343739	13.49	593342	17.70	478896	22.30
ZZZZZZ	198455	10.49	330667	13.49	574184	17.70	448730	22.30
ZZZZZZ	214913	10.49	369782	13.49	603547	17.70	481906	22.30
ZZZZZZ	180935	10.49	300122	13.49	515090	17.70	406792	22.30

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: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6595-CC6563	**Injection Date:**	04/28/16
Lab File ID:	F156633.D	**Injection Time:**	21:08
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	738012	4.76	2972609	5.68	1778700	7.12	2909099	9.01	2769391	14.28	2578328	17.32
Upper Limit [a]	1476024	5.26	5945218	6.18	3557400	7.62	5818198	9.51	5538782	14.78	5156656	17.82
Lower Limit [b]	369006	4.26	1486305	5.18	889350	6.62	1454550	8.51	1384696	13.78	1289164	16.82

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
OP93443-MB1	455548	4.75	1843931	5.67	1111344	7.11	1828256	9.00	1707881	14.26	1621774	17.30
OP93443-BS1	453707	4.75	1888859	5.68	1108763	7.11	1804005	9.00	1668146	14.27	1556944	17.31
OP93443-MS	410937	4.75	1692019	5.68	986801	7.11	1575072	9.00	1463596	14.26	1342726	17.30
OP93443-MSD	484701	4.76	1976994	5.68	1145864	7.11	1849869	9.00	1705999	14.27	1569021	17.31
JC19214-1	433853	4.75	1766838	5.67	1092564	7.11	1781741	9.00	1710805	14.26	1596054	17.30
JC19214-2	463291	4.75	1857988	5.67	1119120	7.11	1857902	9.00	1747307	14.26	1577002	17.30
ZZZZZZ	438807	4.75	1779182	5.67	1096061	7.11	1790420	9.00	1705959	14.26	1609738	17.30
JC19069-1	439095	4.75	1747045	5.67	1062119	7.11	1732546	9.00	1634585	14.26	1543158	17.30
ZZZZZZ	429041	4.75	1720463	5.67	1048053	7.11	1738352	9.00	1632605	14.26	1535475	17.30
ZZZZZZ	402075	4.75	1636847	5.67	1003182	7.11	1639998	9.00	1601438	14.26	1510082	17.30
ZZZZZZ	446446	4.75	1808316	5.67	1090705	7.11	1794823	9.00	1692123	14.26	1622129	17.30
ZZZZZZ	465022	4.75	1879617	5.67	1126498	7.11	1868826	9.00	1825193	14.26	1718603	17.30
ZZZZZZ	468140	4.75	1900294	5.67	1148720	7.11	1901498	9.00	1814242	14.26	1722618	17.30
ZZZZZZ	445047	4.75	1789390	5.67	1106886	7.11	1794774	9.00	1715401	14.26	1621858	17.30
ZZZZZZ	390940	4.75	1557439	5.67	935482	7.11	1583217	9.00	1498710	14.26	1411282	17.30
ZZZZZZ	400871	4.75	1625431	5.67	995323	7.11	1646097	9.00	1576773	14.26	1492791	17.30
ZZZZZZ	427842	4.75	1776938	5.67	1061835	7.11	1758176	9.00	1642217	14.26	1541922	17.30
ZZZZZZ	488146	4.75	1958414	5.67	1189490	7.11	1964368	9.00	1827627	14.26	1681881	17.30
ZZZZZZ	491769	4.75	1970271	5.67	1191798	7.11	1949815	9.00	1847474	14.26	1774197	17.30
OP93417-MB1	510337	4.75	2056376	5.67	1253051	7.11	2087088	9.00	1959571	14.26	1872107	17.30
OP93417-BS1	501512	4.75	2224347	5.68	1143867	7.11	1855378	9.00	1673083	14.26	1542192	17.30
OP93417-BS13	490132	4.75	1948821	5.67	1188117	7.11	1965148	9.00	1818781	14.26	1698237	17.30
OP93417-MS	418161	4.75	1842036	5.67	991934	7.11	1595180	9.00	1486576	14.26	1351709	17.30
OP93417-MSD	506572	4.76	2216097	5.68	1159425	7.11	1801636	9.00	1621316	14.26	1491185	17.30
ZZZZZZ	537214	4.75	2221567	5.67	1366783	7.11	2280170	9.00	2138948	14.26	2038550	17.30
JC19048-3	481770	4.75	1945608	5.67	1183666	7.11	1959471	9.00	1816135	14.26	1705307	17.30
ZZZZZZ	454755	4.76	1953087	5.68	1131889	7.12	1753354	9.00	1548251	14.28	1409211	17.33
ZZZZZZ	401279	4.76	1631623	5.68	970866	7.11	1588052	9.00	1489966	14.26	1377266	17.30
ZZZZZZ	397310	4.76	1596363	5.68	1022771	7.11	1558430	9.00	1470405	14.26	1355227	17.30

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

Semivolatile Internal Standard Area Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EF6595-CC6563	**Injection Date:**	04/28/16
Lab File ID:	F156633.D	**Injection Time:**	21:08
Instrument ID:	GCMSF	**Method:**	SW846 8270D

Lab	**IS 1**		**IS 2**		**IS 3**		**IS 4**		**IS 5**		**IS 6**	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 6 = Perylene-d12

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

Semivolatile Surrogate Recovery Summary

Job Number: JC19214
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
JC19214-1	F156641.D	55	40	100	99	82	69
JC19214-2	F156642.D	43	31	101	99	87	81
OP93443-BS1	F156638.D	63	45	108	104	84	95
OP93443-MB1	F156637.D	61	40	123	118	100	100
OP93443-MS	F156639.D	79	69	113	105	92	94
OP93443-MSD	F156640.D	76	66	112	105	91	92

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

Semivolatile Surrogate Recovery Summary

Job Number: JC19214
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
JC19214-1	3M60967.D	92	92	82
JC19214-2	3M60968.D	93	99	98
OP93443A-BS12	3M60966.D	65	67	93
OP93443A-MB1	3M60965.D	116	115	114
OP93443A-MS	3M60969.D	68	75	89
OP93443A-MSD	3M60970.D	77	79	100

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

Initial Calibration Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICC2855
Lab FileID: 3M60763A.D

```
                        Response Factor Report  MS3M

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

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

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

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

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

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

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

Initial Calibration Summary

Job Number: JC19214 **Sample:** E3M2855-ICC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60763A.D
Project: BMSMC, Building 5 Area, PR

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

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

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

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

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICV2855
Lab FileID: 3M60772.D

Evaluate Continuing Calibration Report

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

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	117	0.00	10.64
5		Phenol	0.893	0.813	9.0	102	0.01	6.13
14	I	Fluorene-d10	1.000	1.000	0.0	119	0.00	13.64
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	3.836	23.3	86	0.00	13.85
21	I	Fluoranthene-d10	1.000	1.000	0.0	111	0.00	17.84
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.338	13.2	93	0.00	15.20

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

Initial Calibration Verification

Job Number: JC19214 **Sample:** E3M2855-ICV2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60773.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

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

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

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

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

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

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2855-ICV2855
Lab FileID: 3M60774.D

Evaluate Continuing Calibration Report

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

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1-Methylnaphthalene-d10	1.000	1.000	0.0	108	0.00	10.64
12 t	1-Methylnaphthalene	1.559	1.488	4.6	115	0.00	10.70
13	Hexachlorocyclopentadiene	0.308	0.322	-4.6	98	0.00	10.85

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

Continuing Calibration Summary

Job Number: JC19214 **Sample:** E3M2867-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60964.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2867\3m60964.D          Vial: 2
Acq On    : 29 Apr 2016   9:37 am                    Operator: ashleyd
Sample    : cc2855-0.5                               Inst    : MS3M
Misc      : op93271a,e3m2867                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2855SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Apr 28 10:59:02 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-Methylnaphthalene-d10	1.000	1.000	0.0	61	-0.13	10.49
2	t	1,4-dioxane	0.207	0.223	-7.7	64	-0.05	2.20
3	S	2-Fluorophenol	0.500	0.534	-6.8	63	-0.11	4.40
4	S	Phenol-d5	0.828	0.857	-3.5	60	-0.09	6.00
5		Phenol	0.893	0.900	-0.8	59	-0.08	6.02
6	t	bis(2-Chloroethyl)ether	0.675	0.650	3.7	56	-0.07	6.17
7	S	Nitrobenzene-d5	0.770	0.689	10.5	51	-0.11	7.61
8	t	Nitrobenzene	0.836	0.757	9.4	55	-0.12	7.62
9	t	Naphthalene	2.223	2.366	-6.4	66	-0.12	9.00
10	t	Hexachlorobutadiene	0.387	0.385	0.5	58	-0.12	9.28
11	t	2-Methylnaphthalene	1.158	1.202	-3.8	65	-0.13	10.36
12	t	1-Methylnaphthalene	1.559	1.257	19.4	55	-0.11	10.57
13		Hexachlorocyclopentadiene	0.308	0.256	16.9	48#	-0.11	10.71
14	I	Fluorene-d10	1.000	1.000	0.0	56	-0.16	13.49
15	S	2-Fluorobiphenyl	1.099	1.168	-6.3	59	-0.14	11.16
16	t	Acenaphthylene	1.385	1.451	-4.8	55	-0.14	12.15
17	t	Acenaphthene	0.925	0.992	-7.2	58	-0.14	12.51
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.806	27.8#	45	-0.14	13.71
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.110	1.221	-10.0	60	-0.14	13.54
20	S	2,4,6-Tribromophenol	0.125	0.128	-2.4	53	-0.14	14.03
21	I	Fluoranthene-d10	1.000	1.000	0.0	60	-0.16	17.70
22	t	Hexachlorobenzene	0.189	0.184	2.6	58	-0.16	14.64
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.968	21.3#	48	-0.14	15.07
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.980	0.946	3.5	57	-0.16	15.46
25	t	Anthracene	0.865	0.813	6.0	54	-0.17	15.55
26	t	Fluoranthene	1.231	1.082	12.1	60	-0.16	17.73
27	t	Pyrene	1.144	1.054	7.9	55	-0.16	18.12
28	S	Terphenyl-d14	0.580	0.612	-5.5	62	-0.14	18.52
29	t	Benzo[a]anthracene	1.097	0.960	12.5	56	-0.16	20.20
30	t	Chrysene	1.051	1.031	1.9	61	-0.16	20.27
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	58	-0.15	22.30

Continuing Calibration Summary

Job Number: JC19214 **Sample:** E3M2867-CC2855
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M60964.D
Project: BMSMC, Building 5 Area, PR

32	t	Benzo[b]fluoranthene	1.331	1.435	-7.8	65	-0.14	21.87
33	t	Benzo[k]fluoranthene	1.232	1.039	15.7	53	-0.14	21.92
34	t	Benzo[a]pyrene	1.240	1.165	6.0	59	-0.13	22.34
35	t	Indeno[1,2,3-cd]pyrene	1.260	1.353	-7.4	62	-0.16	23.81
36	t	Dibenz[a,h]anthracene	1.039	1.088	-4.7	65	-0.18	23.84
37	t	Benzo[g,h,i]perylene	1.095	1.142	-4.3	62	-0.20	24.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m60764a.D M3M2855SIM.M Fri Apr 29 15:27:06 2016 RPT1

Initial Calibration Summary

Job Number: JC19214 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

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

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

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

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

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

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

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

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

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

Initial Calibration Summary

Job Number: JC19214 **Sample:** EF6563-ICC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156053.D
Project: BMSMC, Building 5 Area, PR

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

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

Initial Calibration Summary

Job Number: JC19214 **Sample:** EF6564-ICC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156062.D
Project: BMSMC, Building 5 Area, PR

```
                          Response Factor Report  MSF

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

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

   Compound          2     5     25    80    100   50    10    1     Avg %RSD
  ---------------------------------------------------------------------------
159) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
160) Benzaldehyde 1.314 1.266 1.115 0.952 0.817 1.052 1.157 1.340 1.126  16.20

161) I   Naphthalene-d8b       ----------------ISTD---------------------
162) Hydroquinone 0.268 0.329 0.362 0.349 0.321 0.376 0.354 0.252 0.326  13.67

163)     Acenaphthene-d10b     ----------------ISTD---------------------
164) 1,2,4,5-Tetr 0.648 0.642 0.534 0.466 0.440 0.496 0.569 0.657 0.557  15.50

165)     Phenanthrene-d10b     ----------------ISTD---------------------
166) Atrazine     0.203 0.217 0.192 0.178 0.168 0.186 0.193 0.200 0.192   7.94

167)     Chrysene-d12b         ----------------ISTD---------------------
168) Benzidine    0.740 0.852 0.774 0.574 0.440 0.740 0.776 0.664 0.695  19.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

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

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6563
Lab FileID: F156069.D

Evaluate Continuing Calibration Report

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

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	4.88
3	t	Pyridine	1.459	1.468	-0.6	99	0.07	2.86
10	t	Aniline	1.993	2.110	-5.9	116	0.00	4.64
16	t	Benzyl alcohol	0.947	0.920	2.9	99	0.00	4.98
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.80
39	t	4-Chloroaniline	0.451	0.416	7.8	106	0.00	5.85
44	t	2-Methylnaphthalene	0.616	0.531	13.8	96	0.00	6.33
47	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00	7.27
54	t	2-Nitroaniline	0.328	0.291	11.3	90	0.00	6.82
58	t	3-Nitroaniline	0.350	0.305	12.9	89	0.00	7.21
62	t	Dibenzofuran	1.606	1.408	12.3	97	0.00	7.49
68	t	4-Nitroaniline	0.353	0.292	17.3	86	-0.01	7.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01	9.21
79	t	Carbazole	1.080	0.973	9.9	94	0.00	9.61

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

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156070.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

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

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

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

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

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

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

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

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	4.88
4	t	N-Nitrosodimethylamine	0.525	0.491	6.5	86	0.00	2.76
11	t	bis(2-Chloroethyl)ether	1.310	1.262	3.7	90	0.00	4.68
14	t	1,3-Dichlorobenzene	1.647	1.531	7.0	88	0.00	4.84
15	t	1,4-Dichlorobenzene	1.643	1.547	5.8	90	0.00	4.89
17	t	1,2-Dichlorobenzene	1.545	1.468	5.0	91	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.407	13.8	83	0.00	5.08
22		n-Nitroso-di-n-propylamin	0.966	0.892	7.7	91	0.00	5.17
23	t	Hexachloroethane	0.509	0.474	6.9	88	0.00	5.25
24	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00	5.80
26	t	Nitrobenzene	0.391	0.361	7.7	84	0.00	5.29
28	t	Isophorone	0.668	0.657	1.6	92	-0.01	5.46
32	t	bis(2-Chloroethoxy)methan	0.421	0.383	9.0	87	0.00	5.62
36	t	1,2,4-Trichlorobenzene	0.330	0.300	9.1	86	0.00	5.76
38	t	Naphthalene	1.092	1.031	5.6	92	0.00	5.82
42	t	Hexachlorobutadiene	0.156	0.146	6.4	89	0.00	5.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00	7.27
52	t	2-Chloronaphthalene	1.156	1.074	7.1	84	0.00	6.74
55	t	Dimethylphthalate	1.293	1.139	11.9	78	0.00	6.98
56	t	Acenaphthylene	1.874	1.715	8.5	83	0.00	7.13
57	t	2,6-Dinitrotoluene	0.280	0.250	10.7	74	0.00	7.05
59	t	Acenaphthene	1.177	1.104	6.2	86	0.00	7.30
63	t	2,4-Dinitrotoluene	0.379	0.317	16.4	69	0.00	7.46
65	t	Diethylphthalate	1.278	1.093	14.5	75	-0.01	7.74
66	t	Fluorene	1.236	1.107	10.4	85	0.00	7.89
67	t	4-Chlorophenyl-phenylethe	0.545	0.466	14.5	83	0.00	7.89
69	I	Phenanthrene-d10	1.000	1.000	0.0	80	0.00	9.21
71	t	n-Nitrosodiphenylamine	0.572	0.506	11.5	74	0.00	8.03
72	t	1,2-Diphenylhydrazine	0.791	0.781	1.3	81	0.00	8.08
74	t	4-Bromophenyl-phenylether	0.192	0.180	6.3	79	0.00	8.54
75	t	Hexachlorobenzene	0.184	0.176	4.3	80	0.00	8.62
77	t	Phenanthrene	1.151	1.081	6.1	81	0.00	9.25
78	t	Anthracene	1.152	1.079	6.3	79	-0.01	9.33
80	t	Di-n-butylphthalate	1.349	1.228	9.0	74	0.00	10.32
81	t	Fluoranthene	1.141	1.063	6.8	77	-0.01	11.42
83	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01	14.54
84	t	Pyrene	1.419	1.406	0.9	79	0.00	11.88
86	t	Butylbenzylphthalate	0.697	0.638	8.5	71	-0.01	13.48

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156071.D
Project: BMSMC, Building 5 Area, PR

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

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

6.7.10

6

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156071A.D

Evaluate Continuing Calibration Report

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

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
163	Acenaphthene-d10b	1.000	1.000	0.0	103	0.00	7.27
164	1,2,4,5-Tetrachlorobenzen	0.557	0.496	11.0	103	0.00	6.46

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

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156072A.D

Evaluate Continuing Calibration Report

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

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
159 I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	109	0.00	4.88
160 t	Benzaldehyde	1.126	1.021	9.3	105	0.00	4.56
165	Phenanthrene-d10b	1.000	1.000	0.0	97	0.00	9.21
166	Atrazine	0.192	0.172	10.4	90	0.00	8.79

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

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6564-ICV6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

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

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	4.88
2	t	1,4-Dioxane	0.619	0.548	11.5	88	0.00	2.49
6	t	Indene	2.367	2.240	5.4	100	0.00	5.07
7	t	Cumene	3.180	2.825	11.2	91	0.00	4.29
13	t	Decane	1.278	1.119	12.4	94	0.00	4.76
18	t	Acetophenone	1.790	1.667	6.9	100	0.00	5.17
24	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00	5.80
27	t	Quinoline	0.773	0.578	25.2	85	-0.02	6.05
41	t	Caprolactam	0.152	0.112	26.3	82	-0.03	6.09
45	t	1-Methylnaphthalene	0.634	0.469	26.0	86	0.00	6.41
46	t	Dimethylnaphthalene	0.642	0.480	25.2	87	0.00	6.86
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	7.27
48	t	Hexachlorocyclopentadiene	0.271	0.278	-2.6	96	0.00	6.46
53	t	Biphenyl	1.484	1.284	13.5	87	0.00	6.72
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	9.21
82	t	Octadecane	0.468	0.437	6.6	84	0.00	9.10
92	I	Perylene-d12	1.000	1.000	0.0	79	-0.01	17.58
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.447	7.5	68	-0.02	16.84

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

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6563
Lab FileID: F156073.D

Evaluate Continuing Calibration Report

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

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	108	-0.02	14.53
89 t	3,3'-Dichlorobenzidine	0.422	0.396	6.2	100	-0.01	14.55

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

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6564-ICV6564
Lab FileID: F156073A.D

Evaluate Continuing Calibration Report

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

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

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
167	Chrysene-d12b	1.000	1.000	0.0	104	0.00	14.53
168	Benzidine	0.695	0.912	-31.2#	128	0.00	11.76

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

Initial Calibration Summary

Job Number: JC19214 **Sample:** EF6566-ICC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156082.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSF

Method : C:\MSDCHEM\1\METHODS\MF6566.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration

Calibration Files
2 =F156086.D 5 =F156085.D 25 =F156083.D 80 =F156081.D
100 =F156080.D 50 =F156082.D 10 =F156084.D 1 =F156087.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
102) I 1,4-Dichlorobenzene-d					ISTD					
103) 2-Picoline	1.790	1.874	1.523	1.552	1.569	1.485	1.683	1.826	1.663	9.10
104) Pentachloroe	0.600	0.601	0.512	0.502	0.501	0.496	0.565	0.646	0.553	10.45
105) Methyl metha	0.895	0.909	0.793	0.782	0.781	0.788	0.817	0.929	0.837	7.56
106) N-Nitrosodie	0.798	0.772	0.658	0.662	0.673	0.632	0.708	0.803	0.713	9.57
107) N-Nitrosomet	0.616	0.778	0.573	0.621	0.637	0.579	0.638	0.579	0.628	10.57
108) Ethyl methan	1.300	1.281	1.054	1.091	1.104	1.025	1.137	1.361	1.169	10.81
109) N-Nitrosopyr	0.498	0.534	0.475	0.494	0.549	0.498	0.574	0.668	0.536	11.68
110) N-Nitrosomor	0.876	0.885	0.728	0.724	0.726	0.716	0.783	0.867	0.788	9.63
111) o-Toluidine	2.578	2.585	2.120	1.885	1.860	1.955	2.282	2.861	2.266	16.53
112) I Naphthalene-d8A					ISTD					
113) O,O,O-Trieth	0.189	0.191	0.152	0.143	0.137	0.147	0.166	0.185	0.164	13.44
114) N-Nitrosopip	0.226	0.237	0.199	0.207	0.209	0.197	0.211	0.240	0.216	7.65
115) A,A-Dimethyl	0.777	0.888	0.824	0.847	0.856	0.802	0.832	0.873	0.837	4.37
116) Hexachloropr	0.202	0.215	0.184	0.184	0.175	0.181	0.196	0.199	0.192	6.94
117) p-Phenylened		0.187	0.252	0.151		0.202	0.209		0.200	18.23
118) N-Nitrosodi-	0.261	0.305	0.233	0.235	0.237	0.235	0.262	0.379	0.268	18.93
119) Safrole	0.298	0.306	0.256	0.246	0.237	0.243	0.273	0.288	0.268	9.97
120) Isosafrole	0.101	0.102	0.203	0.084	0.086	0.199	0.086	0.109	0.121	41.34
121) I Acenaphthene-d10A					ISTD					
122) Thionazin	0.183	0.188	0.145	0.150	0.146	0.142	0.156	0.190	0.162	12.81
123) Tetraethyl d	0.151	0.156	0.129	0.129	0.126	0.129	0.147	0.143	0.139	8.63
124) Phorate	0.953	0.982	0.817	0.829	0.812	0.801	0.901	0.896	0.874	7.93
125) Phenacetin	0.645	0.697	0.631	0.654	0.654	0.633	0.658	0.549	0.640	6.59
126) 1,4-Naphthoq	0.260	0.285	0.364	0.255	0.237	0.351	0.295	0.238	0.286	17.16
127) m-Dinitroben		0.178	0.169	0.190	0.188	0.180	0.179		0.181	4.14
128) Pentachlorob	0.506	0.474	0.390	0.364	0.349	0.370	0.433	0.486	0.421	14.59
129) 1-Naphthylam	1.041	1.056	0.923	0.852	0.825	0.890	0.903	1.053	0.943	9.93
130) 2-Naphthylam	1.160	1.132	1.144	1.010	0.976	1.063	1.104	1.269	1.107	8.33
131) 5-Nitro-o-to	0.358	0.403	0.343	0.350	0.353	0.335	0.374	0.320	0.355	7.11
132) I Phenanthrene-d10A					ISTD					
133) Disulfoton	0.462	0.473	0.424	0.412	0.401	0.410	0.432	0.449	0.433	6.00
134) Dinoseb		0.113	0.137	0.178	0.175	0.159	0.121		0.147	18.95
135) Dimethoate	0.326	0.356	0.308	0.297	0.281	0.298	0.335	0.321	0.315	7.62
136) 4-Aminobiphe	0.409	0.385	0.354	0.330	0.314	0.345	0.327	0.422	0.361	11.15
137) Methyl parat	0.164	0.208	0.197	0.196	0.184	0.194	0.207	0.140	0.186	12.46
138) Parathion	0.153	0.182	0.158	0.158	0.153	0.153	0.174	0.130	0.158	9.95
139) Diphenylamin	1.337	1.343	1.081	1.012	0.953	1.018	1.207	1.318	1.159	13.95
140) Isodrin	0.146	0.143	0.113	0.120	0.113	0.111	0.123	0.148	0.127	12.49
141) Diallate	0.089	0.091	0.058	0.064	0.065	0.059	0.068		0.071	19.53
142) Pentachloron	0.033	0.036	0.031	0.028	0.026	0.030	0.033	0.033	0.031#	10.25

Initial Calibration Summary

Job Number: JC19214 **Sample:** EF6566-ICC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156082.D
Project: BMSMC, Building 5 Area, PR

```
143) Pronamide    0.307 0.333 0.324 0.314 0.307 0.316 0.306 0.275 0.310   5.50
144) 4-Nitroquino 0.049 0.086 0.098 0.111 0.105 0.101 0.098       0.093  22.19
          ----- Quadratic regression -----                Coefficient =  0.9978
               Response Ratio = -0.01425 + 0.10783 *A + 0.00005 *A^2

145) Methapyrilin 0.395 0.421 0.345 0.225 0.193 0.277 0.387 0.418 0.333  26.98
          ----- Quadratic regression -----                Coefficient =  0.9992
               Response Ratio = 0.00614 + 0.36407 *A + -0.07004 *A^2

146) sym-Trinitro       0.044 0.068 0.073 0.074 0.076 0.047       0.064  22.28
          ----- Quadratic regression -----                Coefficient =  0.9992
               Response Ratio = -0.00645 + 0.08149 *A + -0.00200 *A^2


147) I   Chrysene-d12A         ----------------ISTD---------------------
148) Aramite      0.028 0.030 0.042 0.035 0.034 0.041 0.030       0.034# 15.62
149) p-(Dimethyla 0.339 0.420 0.386 0.404 0.384 0.384 0.406 0.300 0.378  10.44
150) Kepone       0.088 0.094 0.062 0.028 0.033 0.042 0.078 0.079 0.063  41.04
151) Famphur            0.508 0.292 0.144 0.115 0.205 0.427       0.282  56.15
          ----- Quadratic regression -----                Coefficient =  0.9936
               Response Ratio = 0.25917 + 0.24697 *A + -0.01008 *A^2

152) 2-Acetylamin 0.346 0.462 0.488 0.531 0.517 0.507 0.464       0.473  13.06
153) 3,3'-Dimethy 0.636 0.645 0.380 0.111 0.085 0.204 0.518 0.591 0.396  59.43
154) Chlorobenzil 0.287 0.326 0.301 0.314 0.295 0.294 0.320 0.269 0.301   6.24

155) I   Perylene-d12A         ----------------ISTD---------------------
156) 4,4-Methylen 0.139 0.153 0.111 0.098       0.098 0.137 0.133 0.124  17.50
157) 3-Methylchol 0.511 0.575 0.525 0.551 0.524 0.519 0.554 0.466 0.528   6.30
158) Hexachloroph 0.010 0.018 0.035 0.083 0.084 0.052 0.028       0.044# 67.64
          ----- Quadratic regression -----                Coefficient =  0.9914
               Response Ratio = -0.01910 + 0.03206 *A + 0.00375 *A^2


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

           MF6563AP9.M        Fri Apr 08 17:18:47 2016   RT1
```

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6564
Lab FileID: F156097.D

Evaluate Continuing Calibration Report

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

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
161	I	Naphthalene-d8b	1.000	1.000	0.0	71	0.00	5.80
162	t	Hydroquinone	0.326	0.369	-13.2	69	0.00	6.07

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

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156102.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	I	1,4-Dichlorobenzene-d4A	1.000	1.000	0.0	107	0.00	4.88
103	t	2-Picoline	1.663	1.527	8.2	110	0.00	3.41
104	t	Pentachloroethane	0.553	0.498	9.9	108	0.00	4.67
105	t	Methyl methanesulfonate	0.837	0.815	2.6	111	0.00	3.75
106	t	N-Nitrosodiethylamine	0.713	0.665	6.7	113	0.00	4.07
107	t	N-Nitrosomethylethylamine	0.628	0.612	2.5	114	0.00	3.51
108	t	Ethyl methanesulfonate	1.169	1.081	7.5	113	0.00	4.30
109	t	N-Nitrosopyrrolidine	0.536	0.485	9.5	104	0.00	5.15
110	t	N-Nitrosomorpholine	0.788	0.681	13.6	102	0.00	5.18
111	t	o-Toluidine	2.266	1.859	18.0	102	0.00	5.19
112	I	Naphthalene-d8A	1.000	1.000	0.0	104	0.00	5.80
113	t	O,O,O-Triethyl phosphorot	0.164	0.151	7.9	107	0.00	5.59
114	t	N-Nitrosopiperidine	0.216	0.207	4.2	109	0.00	5.40
115	t	A,A-Dimethylphenethylamin	0.837	0.833	0.5	108	-0.06	5.67
116	t	Hexachloropropene	0.192	0.183	4.7	105	0.00	5.88
117	t	p-Phenylenediamine	0.200	0.329	-64.5#	170	0.00	6.11
118	t	N-Nitrosodi-n-butylamine	0.268	0.316	-17.9	140	0.00	6.09
119	t	Safrole	0.268	0.272	-1.5	117	0.00	6.26
120	t	Isosafrole	0.121	0.139	-14.9	154	0.00	6.68
121	I	Acenaphthene-d10A	1.000	1.000	0.0	100	0.00	7.27
122	t	Thionazin	0.162	0.153	5.6	107	0.00	7.84
123	t	Tetraethyl dithiopyrophos	0.139	0.134	3.6	104	0.00	8.25
124	t	Phorate	0.874	0.850	2.7	106	0.00	8.44
125	t	Phenacetin	0.640	0.615	3.9	97	0.00	8.46
126	t	1,4-Naphthoquinone	0.286	0.397	-38.8#	113	0.00	6.90
128	t	Pentachlorobenzene	0.421	0.393	6.7	106	0.00	7.44
131	t	5-Nitro-o-toluidine	0.355	0.285	19.7	85	0.00	7.90
132	I	Phenanthrene-d10A	1.000	1.000	0.0	96	0.00	9.21
133	t	Disulfoton	0.433	0.437	-0.9	102	0.00	9.25
135	t	Dimethoate	0.315	0.243	22.9	78	0.00	8.68
136	t	4-Aminobiphenyl	0.361	0.361	-13.3	109	0.00	8.93
137	t	Methyl parathion	0.186	0.144	22.6	71	0.00	9.88
138	t	Parathion	0.158	0.161	-1.9	101	0.00	10.63
140	t	Isodrin	0.127	0.126	0.8	110	0.00	11.12
141	t	Diallate	0.071	0.064	9.9	105	0.00	8.55
142	t	Pentachloronitrobenzene	0.031	0.032#	-3.2	98	0.00	8.94
143	t	Pronamide	0.310	0.338	-9.0	103	0.00	9.04

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156102.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
144	t	4-Nitroquinoline 1-oxide	50.000	37.844	24.3	68	-0.02	10.63
145	t	Methapyriline	50.000	40.652	18.7	84	-0.05	10.84

			AvgRF	CCRF	% Dev			
147	I	Chrysene-d12A	1.000	1.000	0.0	90	0.00	14.53
148	t	Aramite	0.034	0.044#	-29.4	97	0.00	12.53
149	t	p-(Dimethylamine)azobenze	0.378	0.429	-13.5	101	0.00	12.62
150	t	Kepone	0.063	0.052	17.5	76	0.24	13.58
152	t	2-Acetylaminofluorene	0.473	0.504	-6.6	90	0.00	13.90
153	t	3,3'-Dimethylbenzidine	0.396	0.303	23.5	134	-0.01	13.36
154	t	Chlorobenzilate	0.301	0.320	-6.3	98	0.00	12.76
155	I	Perylene-d12A	1.000	1.000	0.0	83	-0.02	17.57
157	t	3-Methylcholanthrene	0.528	0.561	-6.3	89	-0.02	18.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:43 2016 RT1

Initial Calibration Verification

Job Number: JC19214 **Sample:** EF6567-ICV6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156104.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156104.D          Vial: 17
Acq On    :  6 Apr 2016   1:39 am                   Operator: sarad
Sample    : icv6566-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
155 I	Perylene-d12A	1.000	1.000	0.0	93	-0.01	17.58
		---------- True	Calc.	% Drift	----------		
158 t	Hexachlorophene	300.000	385.152	-28.4	154	0.00	17.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:45 2016 RT1

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6566
Lab FileID: F156105.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156105.D          Vial: 18
Acq On    :  6 Apr 2016   2:08 am                   Operator: sarad
Sample    : icv6566-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
121	I	Acenaphthene-d10A	1.000	1.000	0.0	131	0.00	7.27
127	t	m-Dinitrobenzene	0.181	0.231	-27.6	168	0.00	7.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:46 2016 RT1

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EF6567-ICV6566
Lab FileID: F156106.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6567\F156106.D          Vial: 19
Acq On    :  6 Apr 2016   2:38 am                   Operator: sarad
Sample    : icv6566-50                              Inst    : MSF
Misc      : op92661,ef6567                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 08 17:01:57 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
121	I	Acenaphthene-d10A	1.000	1.000	0.0	102	0.00	7.27
129	t	1-Naphthylamine	0.943	1.189	-26.1	136	0.00	7.57
130	t	2-Naphthylamine	1.107	1.185	-7.0	114	0.00	7.66
132	I	Phenanthrene-d10A	1.000	1.000	0.0	102	0.00	9.21
146	t	sym-Trinitrobenzene	50.000	40.911	18.2	81	0.00	8.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156091A.D MF6563AP9.M Fri Apr 08 17:30:47 2016 RT1

Continuing Calibration Summary

Job Number: JC19214 **Sample:** EF6595-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156633.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6595\F156633.D          Vial: 2
Acq On    : 28 Apr 2016   9:08 pm                   Operator: juliusj
Sample    : cc6563-50                               Inst    : MSF
Misc      : op93412,ef6595                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 11:28:42 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	4.76
2	t	1,4-Dioxane	0.619	0.554	10.5	77	-0.04	2.32
3	t	Pyridine	1.459	1.512	-3.6	87	-0.04	2.65
4	t	N-Nitrosodimethylamine	0.525	0.672	-28.0#	110	-0.04	2.61
5	S	2-Fluorophenol	1.407	1.406	0.1	86	0.01	3.80
6	t	Indene	2.367	2.549	-7.7	98	0.00	4.94
7	t	Cumene	3.180	3.566	-12.1	99	-0.03	4.16
8	S	Phenol-d5	1.711	1.835	-7.2	93	0.03	4.52
9	t	Phenol	1.821	2.133	-17.1	104	0.03	4.53
10	t	Aniline	1.993	1.364	31.6#	64	0.00	4.51
11	t	bis(2-Chloroethyl)ether	1.310	1.420	-8.4	94	-0.01	4.56
12	t	2-Chlorophenol	1.485	1.510	-1.7	89	0.01	4.62
13	t	Decane	1.278	1.136	11.1	82	0.00	4.63
14	t	1,3-Dichlorobenzene	1.647	1.634	0.8	88	0.00	4.71
15	t	1,4-Dichlorobenzene	1.643	1.658	-0.9	90	0.00	4.77
16	t	Benzyl alcohol	0.947	1.000	-5.6	92	0.01	4.87
17	t	1,2-Dichlorobenzene	1.545	1.571	-1.7	91	0.00	4.88
18	t	Acetophenone	1.790	2.171	-21.3#	112	0.02	5.05
19	t	2-Methylphenol	1.272	1.326	-4.2	91	-0.03	4.97
20	t	2,2'-oxybis(1-Chloropropa	0.472	0.489	-3.6	93	0.00	4.95
21	t	3&4-Methylphenol	1.304	1.462	-12.1	100	0.04	5.08
22		n-Nitroso-di-n-propylamin	0.966	1.296	-34.2#	123	0.02	5.06
23	t	Hexachloroethane	0.509	0.526	-3.3	91	0.00	5.12
24	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	5.68
25	S	Nitrobenzene-d5	0.374	0.447	-19.5	110	0.00	5.16
26	t	Nitrobenzene	0.391	0.474	-21.2#	111	-0.02	5.18
27	t	Quinoline	0.773	0.733	5.2	90	0.03	5.96
28	t	Isophorone	0.668	0.741	-10.9	105	0.00	5.35
29	t	2-Nitrophenol	0.203	0.206	-1.5	94	0.00	5.41
30	t	2,4-Dimethylphenol	0.320	0.375	-17.2	104	0.00	5.45
31	t	Benzoic acid	0.267	0.299	-12.0	92	0.07	5.57
32	t	bis(2-Chloroethoxy)methan	0.421	0.428	-1.7	98	0.00	5.50
33	t	2,4-Dichlorophenol	0.319	0.304	4.7	89	0.14	5.60
34		2,6-Dichlorophenol	0.307	0.299	2.6	96	0.02	5.75
35		1,3,5-Trichlorobenzene	0.336	0.326	3.0	96	0.10	5.41
36	t	1,2,4-Trichlorobenzene	0.330	0.316	4.2	91	0.00	5.64
37		1,2,3-Trichlorobenzene	0.326	0.307	5.8	90	0.01	5.80
38	t	Naphthalene	1.092	1.074	1.6	97	0.00	5.70
39	t	4-Chloroaniline	0.451	0.356	21.1#	79	0.02	5.74
40	t	2,3-Dichloroaniline	0.372	0.354	4.8	98	0.14	6.43
41	t	Caprolactam	0.152	0.137	9.9	83	0.15	6.02

Continuing Calibration Summary

Job Number: JC19214 **Sample:** EF6595-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156633.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.156	0.167	-7.1	104	0.00	5.78
43	t	4-Chloro-3-methylphenol	0.313	0.357	-14.1	106	0.02	6.11
44	t	2-Methylnaphthalene	0.616	0.609	1.1	96	0.13	6.20
45	t	1-Methylnaphthalene	0.634	0.635	-0.2	97	0.00	6.28
46	t	Dimethylnaphthalene	0.642	0.635	1.1	95	0.00	6.72
47	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00	7.12
48	t	Hexachlorocyclopentadiene	0.271	0.322	-18.8	110	0.00	6.33
49	t	2,4,6-Trichlorophenol	0.339	0.347	-2.4	101	0.00	6.44
50	t	2,4,5-Trichlorophenol	0.374	0.372	0.5	95	-0.02	6.49
51	S	2-Fluorobiphenyl	1.277	1.240	2.9	95	0.00	6.50
52	t	2-Chloronaphthalene	1.156	1.120	3.1	94	0.00	6.60
53	t	Biphenyl	1.484	1.463	1.4	97	0.00	6.58
54	t	2-Nitroaniline	0.328	0.433	-32.0#	118	0.02	6.69
55	t	Dimethylphthalate	1.293	1.324	-2.4	98	0.01	6.85
56	t	Acenaphthylene	1.874	1.837	2.0	95	0.00	6.98
57	t	2,6-Dinitrotoluene	0.280	0.298	-6.4	95	0.01	6.91
58	t	3-Nitroaniline	0.350	0.311	11.1	80	0.01	7.08
59	t	Acenaphthene	1.177	1.160	1.4	97	0.00	7.15
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	113.823	-13.8	104	0.03	7.18
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.164	0.260	-58.5#	140	0.05	7.29
62	t	Dibenzofuran	1.606	1.538	4.2	94	0.00	7.33
63	t	2,4-Dinitrotoluene	0.379	0.415	-9.5	97	0.00	7.31
64		2,3,4,6-Tetrachlorophenol	0.282	0.291	-3.2	95	0.00	7.47
65	t	Diethylphthalate	1.278	1.401	-9.6	103	0.00	7.59
66	t	Fluorene	1.236	1.295	-4.8	107	0.00	7.71
67	t	4-Chlorophenyl-phenylethe	0.545	0.565	-3.7	108	0.00	7.71
68	t	4-Nitroaniline	0.353	0.316	10.5	83	0.00	7.76
69	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00	9.01
70	t	4,6-Dinitro-2-methylpheno	0.126	0.154	-22.2#	102	0.02	7.78
71	t	n-Nitrosodiphenylamine	0.572	0.551	3.7	92	0.01	7.86
72	t	1,2-Diphenylhydrazine	0.791	0.969	-22.5#	115	0.00	7.91
73	S	2,4,6-Tribromophenol	0.082	0.095	-15.9	105	0.00	8.02
74	t	4-Bromophenyl-phenylether	0.192	0.198	-3.1	100	0.00	8.35
75	t	Hexachlorobenzene	0.184	0.200	-8.7	105	0.00	8.43
76	t	Pentachlorophenol	0.121	0.141	-16.5	106	0.02	8.74
77	t	Phenanthrene	1.151	1.117	3.0	96	0.00	9.05
78	t	Anthracene	1.152	1.132	1.7	95	0.00	9.13
79	t	Carbazole	1.080	1.047	3.1	94	0.02	9.41
80	t	Di-n-butylphthalate	1.349	1.479	-9.6	103	0.01	10.11
81	t	Fluoranthene	1.141	1.181	-3.5	98	0.01	11.19
82	t	Octadecane	0.468	0.452	3.4	91	0.00	8.90
83	I	Chrysene-d12	1.000	1.000	0.0	110	0.00	14.28
84	t	Pyrene	1.419	1.296	8.7	99	-0.03	11.63
85	S	Terphenyl-d14	0.812	0.791	2.6	105	-0.02	12.06
86	t	Butylbenzylphthalate	0.697	0.713	-2.3	108	0.00	13.23
87		Butyl stearate	0.378	0.334	11.6	89	0.00	13.52
88	t	Benzo[a]anthracene	1.212	1.158	4.5	105	0.00	14.25
89	t	3,3'-Dichlorobenzidine	0.422	0.439	-4.0	112	0.01	14.30
90	t	Chrysene	1.204	1.138	5.5	104	0.00	14.34
91	t	bis(2-Ethylhexyl)phthalat	0.966	0.998	-3.3	107	0.01	14.64
92	I	Perylene-d12	1.000	1.000	0.0	103	0.00	17.32
93	t	Di-n-octylphthalate	1.753	1.890	-7.8	107	0.00	16.09

Continuing Calibration Summary

Job Number: JC19214 **Sample:** EF6595-CC6563
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156633.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[b]fluoranthene	1.236	1.284	-3.9	109	0.00	16.57
95	t	Benzo[k]fluoranthene	1.210	1.208	0.2	105	0.00	16.64
96	t	Benzo[a]pyrene	1.132	1.127	0.4	103	0.00	17.21
97	t	Indeno[1,2,3-cd]pyrene	1.044	1.082	-3.6	106	0.00	19.26
98	t	Dibenz(a,h)acridine	0.897	0.972	-8.4	111	0.00	18.90
99	t	Dibenz[a,h]anthracene	1.010	1.095	-8.4	111	0.00	19.33
100	t	7,12-Dimethylbenz(a)anthr	0.483	0.555	-14.9	110	0.00	16.59
101	t	Benzo[g,h,i]perylene	1.128	1.169	-3.6	109	0.00	19.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Fri Apr 29 12:03:26 2016 RT1

6.7.22

6

Continuing Calibration Summary

Job Number: JC19214 **Sample:** EF6595-CC6564
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156634.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6595\F156634.D          Vial: 3
Acq On    : 28 Apr 2016   9:37 pm                   Operator: juliusj
Sample    : cc6564-50                               Inst    : MSF
Misc      : op93412,ef6595                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Apr 29 11:28:42 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	54	0.00	4.75
103 t	Benzaldehyde	1.126	0.953	15.4	49#	0.00	4.43
104 I	Naphthalene-d8b	1.000	1.000	0.0	57	0.00	5.67
105 t	Hydroquinone	0.326	0.372	-14.1	56	0.00	6.00
106	Acenaphthene-d10b	1.000	1.000	0.0	64	0.00	7.11
107	1,2,4,5-Tetrachlorobenzen	0.557	0.500	10.2	65	0.00	6.33
108	Phenanthrene-d10b	1.000	1.000	0.0	61	0.00	9.00
109	Atrazine	0.192	0.220	-14.6	72	0.00	8.61
110	Chrysene-d12b	1.000	1.000	0.0	65	-0.02	14.26
111	Benzidine	0.695	0.425	38.8#	38#	0.00	11.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156062A.D MF6563.M Fri Apr 29 12:03:27 2016 RT1

Continuing Calibration Summary

Job Number: JC19214 **Sample:** EF6595-CC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156635.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EF6595\F156635.D          Vial: 4
Acq On    : 28 Apr 2016  10:05 pm                   Operator: juliusj
Sample    : cc6566-50                               Inst    : MSF
Misc      : op93412,ef6595                          Multiplr: 1.00
MS Integration Params: LSCINT.P

Method       : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon May 02 08:01:33 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	74	-0.05	4.76
103	t	2-Picoline	1.663	1.482	10.9	74	-0.08	3.28
104	t	Pentachloroethane	0.553	0.537	2.9	80	-0.06	4.55
105	t	Methyl methanesulfonate	0.837	0.931	-11.2	88	-0.06	3.63
106	t	N-Nitrosodiethylamine	0.713	0.630	11.6	74	-0.07	3.94
107	t	N-Nitrosomethylethylamine	0.628	0.607	3.3	78	-0.07	3.38
108	t	Ethyl methanesulfonate	1.169	1.090	6.8	79	-0.06	4.18
109	t	N-Nitrosopyrrolidine	0.536	0.541	-0.9	80	-0.05	5.03
110	t	N-Nitrosomorpholine	0.788	0.815	-3.4	84	-0.04	5.06
111	t	o-Toluidine	2.266	2.044	9.8	77	-0.04	5.08
112	I	Naphthalene-d8A	1.000	1.000	0.0	77	-0.05	5.68
113	t	O,O,O-Triethyl phosphorot	0.164	0.151	7.9	79	-0.05	5.48
114	t	N-Nitrosopiperidine	0.216	0.214	0.9	83	-0.05	5.28
115	t	A,A-Dimethylphenethylamin		----------NA----------				
116	t	Hexachloropropene	0.192	0.212	-10.4	90	-0.06	5.75
117	t	p-Phenylenediamine		----------NA----------				
118	t	N-Nitrosodi-n-butylamine	0.268	0.251	6.3	82	-0.05	5.97
119	t	Safrole	0.268	0.243	9.3	77	-0.05	6.13
121	I	Acenaphthene-d10A	1.000	1.000	0.0	79	-0.07	7.11
122	t	Thionazin	0.162	0.153	5.6	85	-0.07	7.67
123	t	Tetraethyl dithiopyrophos	0.139	0.150	-7.9	92	-0.08	8.07
124	t	Phorate	0.874	0.870	0.5	86	-0.09	8.25
125	t	Phenacetin	0.640	0.698	-9.1	87	-0.07	8.29
126	t	1,4-Naphthoquinone	0.286	0.323	-12.9	73	-0.05	6.75
127	t	m-Dinitrobenzene	0.181	0.169	6.6	75	-0.05	6.88
128	t	Pentachlorobenzene	0.421	0.390	7.4	84	-0.07	7.28
129	t	1-Naphthylamine	0.943	0.859	8.9	76	-0.07	7.41
130	t	2-Naphthylamine	1.107	0.977	11.7	73	-0.08	7.50
131	t	5-Nitro-o-toluidine	0.355	0.313	11.8	74	-0.06	7.73
132	I	Phenanthrene-d10A	1.000	1.000	0.0	81	-0.10	9.00
133	t	Disulfoton	0.433	0.373	13.9	74	-0.09	9.04
134	t	Dinoseb	0.147	0.173	-17.7	88	-0.08	9.02
135	t	Dimethoate	0.315	0.285	9.5	77	-0.08	8.49
136	t	4-Aminobiphenyl	0.361	0.324	10.2	76	-0.08	8.73
137	t	Methyl parathion	0.186	0.209	-12.4	87	-0.09	9.67
138	t	Parathion	0.158	0.174	-10.1	92	-0.09	10.41
139	t	Diphenylamine	1.159	1.034	10.8	82	-0.07	7.86

Continuing Calibration Summary

Job Number: JC19214 **Sample:** EF6595-CC6566
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F156635.D
Project: BMSMC, Building 5 Area, PR

140	t	Isodrin	0.127	0.116	8.7	85	-0.11	10.88
141	t	Diallate	0.071	0.058	18.3	79	-0.09	8.36
142	t	Pentachloronitrobenzene	0.031	0.033#	-6.5	91	-0.09	8.74
143	t	Pronamide	0.310	0.334	-7.7	86	-0.08	8.85
		----------	True	Calc.	% Drift	----------		
144	t	4-Nitroquinoline 1-oxide	200.000	192.880	3.6	81	-0.09	10.42
145	t	Methapyriline		----------NA----------				
146	t	sym-Trinitrobenzene	50.000	53.357	-6.7	84	-0.06	8.21
		----------	AvgRF	CCRF	% Dev	----------		
147	I	Chrysene-d12A	1.000	1.000	0.0	86	-0.12	14.26
148	t	Aramite	0.034	0.040#	-17.6	83	-0.12	12.28
149	t	p-(Dimethylamine)azobenze	0.378	0.382	-1.1	85	-0.12	12.37
		----------	True	Calc.	% Drift	----------		
151	t	Famphur		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
152	t	2-Acetylaminofluorene	0.473	0.521	-10.1	88	-0.11	13.66
153	t	3,3'-Dimethylbenzidine	0.396	0.148	62.6#	62	-0.12	13.12
154	t	Chlorobenzilate	0.301	0.309	-2.7	91	-0.12	12.52
155	I	Perylene-d12A	1.000	1.000	0.0	84	-0.12	17.31
156	t	4,4-Methylene-bis-(2-chlo	0.124	0.098	21.0#	84	-0.13	14.33
157	t	3-Methylcholanthrene	0.528	0.537	-1.7	87	-0.05	17.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F156273A.D MF6563AP9.M Mon May 02 08:03:47 2016 RT1

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156641.D Vial: 10
Acq On : 29 Apr 2016 1:26 am Operator: juliusj
Sample : jc19214-1 Inst : MSF
Misc : op93443,ef6595,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.75	152	433853	40.00	ppm	0.00
24) Naphthalene-d8	5.67	136	1766838	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	1092564	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1781741	40.00	ppm	0.00
83) Chrysene-d12	14.26	240	1710805	40.00	ppm	-0.02
92) Perylene-d12	17.30	264	1596054	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.75	152	433853	40.00	ppm	0.00
104) Naphthalene-d8b	5.67	136	1766838	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	1092564	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1781741	40.00	ppm	0.00
110) Chrysene-d12b	14.26	240	1710805	40.00	ppm	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.80	112	420720	27.58	ppm	0.01
Spiked Amount 50.000			Recovery = 55.16%			
8) Phenol-d5	4.52	99	374315	20.17	ppm	0.02
Spiked Amount 50.000			Recovery = 40.34%			
25) Nitrobenzene-d5	5.16	82	817555	49.55	ppm	-0.01
Spiked Amount 50.000			Recovery = 99.10%			
51) 2-Fluorobiphenyl	6.49	172	1429444	40.99	ppm	0.00
Spiked Amount 50.000			Recovery = 81.98%			
73) 2,4,6-Tribromophenol	8.01	330	182519	50.20	ppm	0.00
Spiked Amount 50.000			Recovery = 100.40%			
85) Terphenyl-d14	12.05	244	1199344	34.52	ppm	-0.03
Spiked Amount 50.000			Recovery = 69.04%			

Target Compounds

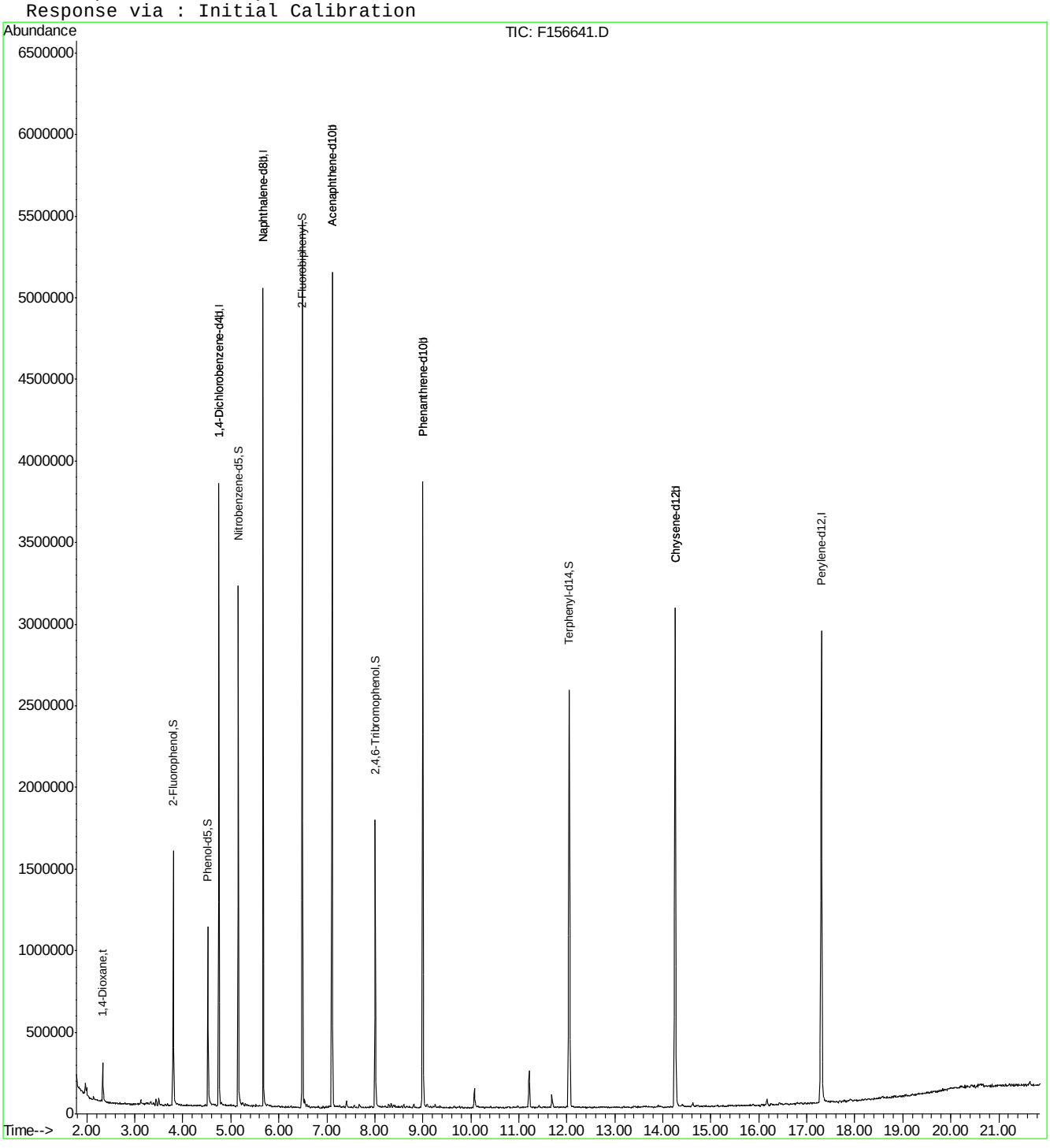
						Qvalue
2) 1,4-Dioxane	2.33	88	116130	17.29	ppm	95

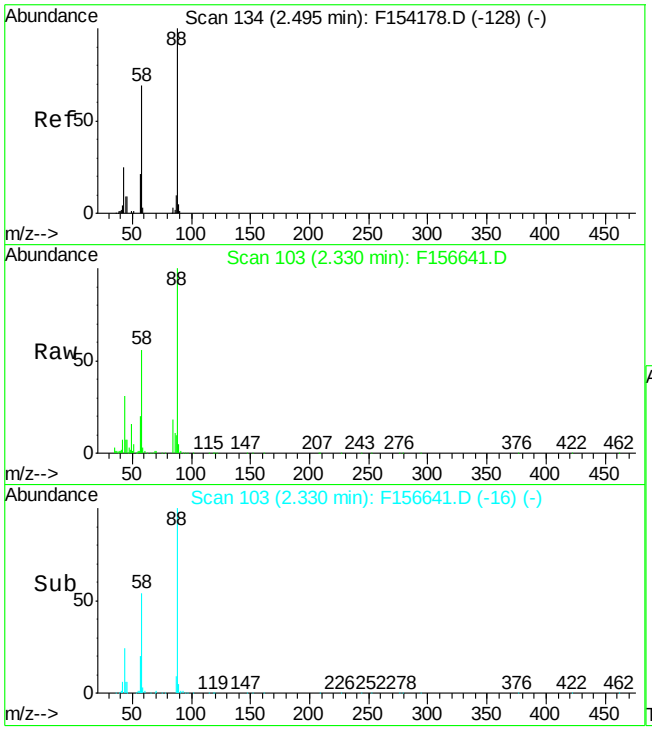
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156641.D Vial: 10
Acq On : 29 Apr 2016 1:26 am Operator: juliusj
Sample : jc19214-1 Inst : MSF
Misc : op93443,ef6595,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:46 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration

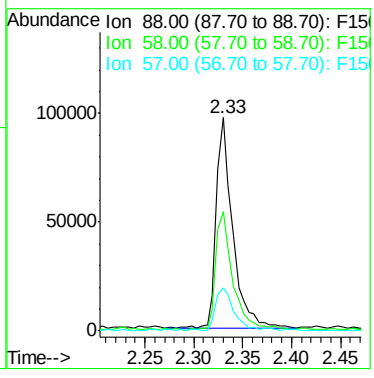




#2
1,4-Dioxane
Concen: 17.29 ppm
RT: 2.33 min Scan# 103
Delta R.T. -0.04 min
Lab File: F156641.D
Acq: 29 Apr 2016 1:26 am

Tgt Ion: 88 Resp: 116130

Ion	Ratio	Lower	Upper
88	100		
58	55.3	29.3	89.3
57	20.0	0.0	51.7



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156642.D Vial: 11
Acq On : 29 Apr 2016 1:54 am Operator: juliusj
Sample : jc19214-2 Inst : MSF
Misc : op93443,ef6595,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:47:07 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.75	152	463291	40.00	ppm	0.00
24) Naphthalene-d8	5.67	136	1857988	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	1119120	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1857902	40.00	ppm	-0.01
83) Chrysene-d12	14.26	240	1747307	40.00	ppm	-0.02
92) Perylene-d12	17.30	264	1577002	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.75	152	463291	40.00	ppm	0.00
104) Naphthalene-d8b	5.67	136	1857988	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	1119120	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1857902	40.00	ppm	-0.01
110) Chrysene-d12b	14.26	240	1747307	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	352604	21.64	ppm	0.01
Spiked Amount 50.000			Recovery = 43.28%			
8) Phenol-d5	4.53	99	304779	15.38	ppm	0.03
Spiked Amount 50.000			Recovery = 30.76%			
25) Nitrobenzene-d5	5.16	82	863073	49.74	ppm	-0.01
Spiked Amount 50.000			Recovery = 99.48%			
51) 2-Fluorobiphenyl	6.49	172	1554270	43.51	ppm	0.00
Spiked Amount 50.000			Recovery = 87.02%			
73) 2,4,6-Tribromophenol	8.01	330	191003	50.38	ppm	0.00
Spiked Amount 50.000			Recovery = 100.76%			
85) Terphenyl-d14	12.05	244	1445893	40.75	ppm	-0.03
Spiked Amount 50.000			Recovery = 81.50%			

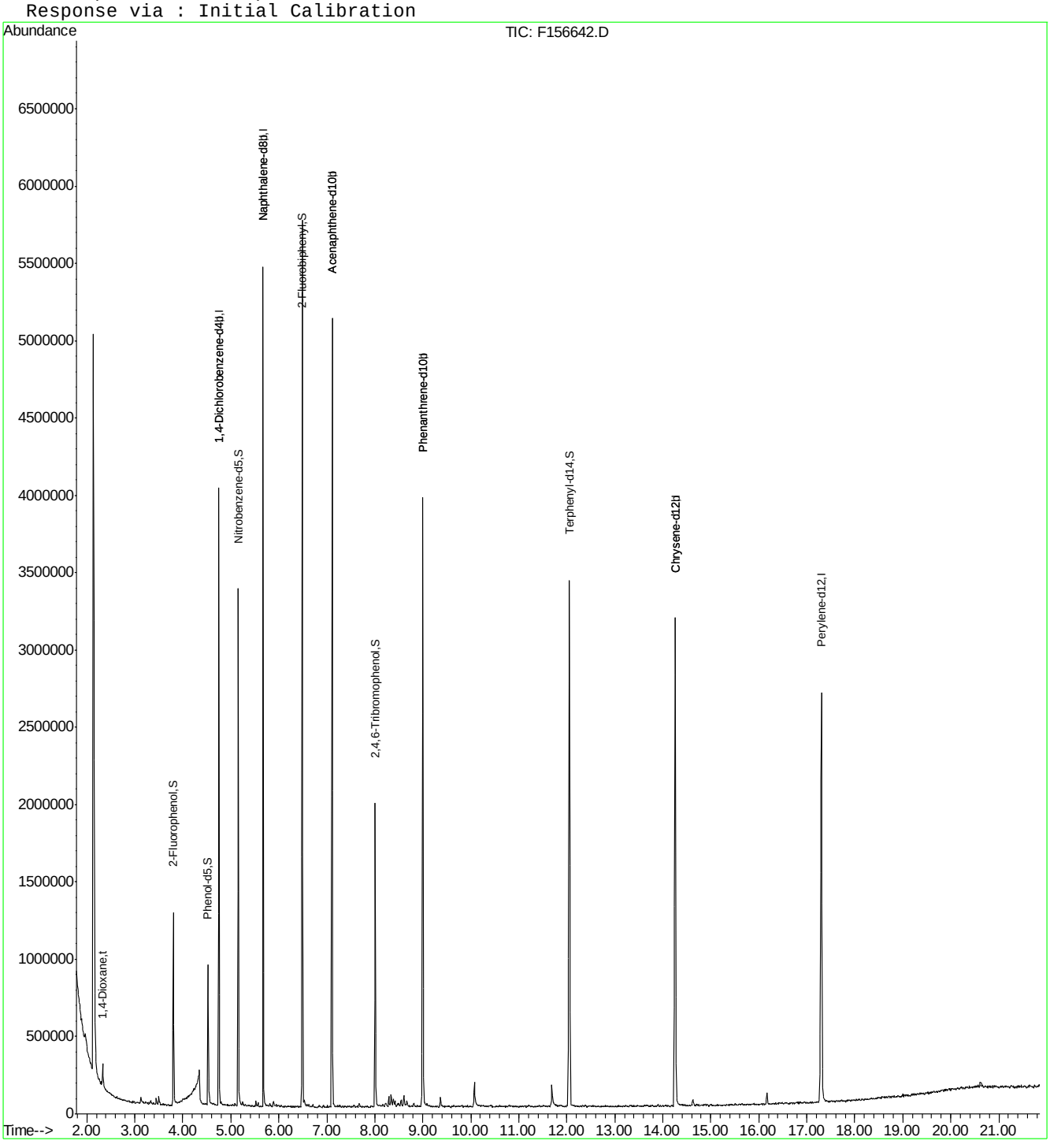
Target Compounds						Qvalue
2) 1,4-Dioxane	2.33	88	68062	9.49	ppm	98

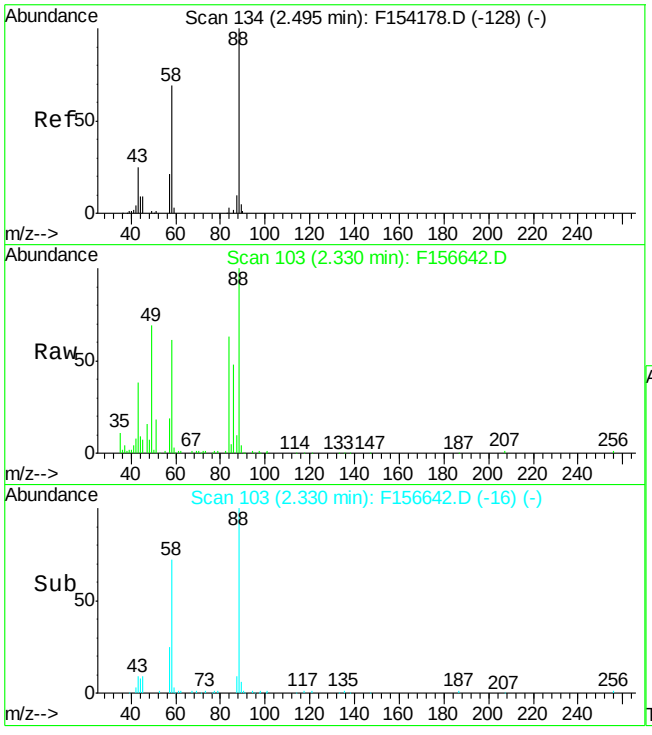
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156642.D Vial: 11
Acq On : 29 Apr 2016 1:54 am Operator: juliusj
Sample : jc19214-2 Inst : MSF
Misc : op93443,ef6595,900 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:47 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration

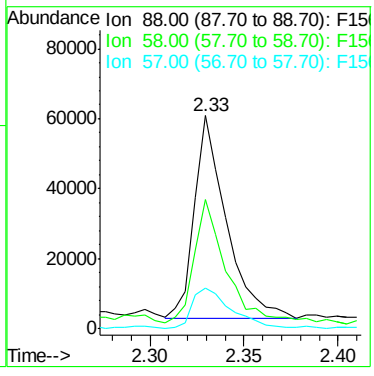




#2
1,4-Dioxane
Concen: 9.49 ppm
RT: 2.33 min Scan# 103
Delta R.T. -0.04 min
Lab File: F156642.D
Acq: 29 Apr 2016 1:54 am

Tgt Ion: 88 Resp: 68062

Ion	Ratio	Lower	Upper
88	100		
58	60.3	29.3	89.3
57	20.0	0.0	51.7



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60967.D
Acq On : 29 Apr 2016 11:27 am
Operator : ashleyd
Sample : jc19214-1
Misc : op93443a,e3m2867,900
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 15:25:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	234854	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	337317	4.00	ppm	-0.16
21) Fluoranthene-d10	17.701	212	572923	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	448629	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	887257	30.20	ppm	-0.09
Spiked Amount 50.000			Recovery = 60.40%			
4) Phenol-d5	6.012	99	981885	20.20	ppm	-0.08
Spiked Amount 50.000			Recovery = 40.40%			
7) Nitrobenzene-d5	7.606	82	2075715	45.92	ppm	-0.11
Spiked Amount 50.000			Recovery = 91.84%			
15) 2-Fluorobiphenyl	11.176	172	4243328	45.78	ppm	-0.13
Spiked Amount 50.000			Recovery = 91.56%			
20) 2,4,6-Tribromophenol	14.033	330	463172	43.87	ppm	-0.14
Spiked Amount 50.000			Recovery = 87.74%			
28) Terphenyl-d14	18.519	244	3398093	40.89	ppm	-0.14
Spiked Amount 50.000			Recovery = 81.78%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.190	88	221135	18.22	ppm	# 1

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

7.1.3

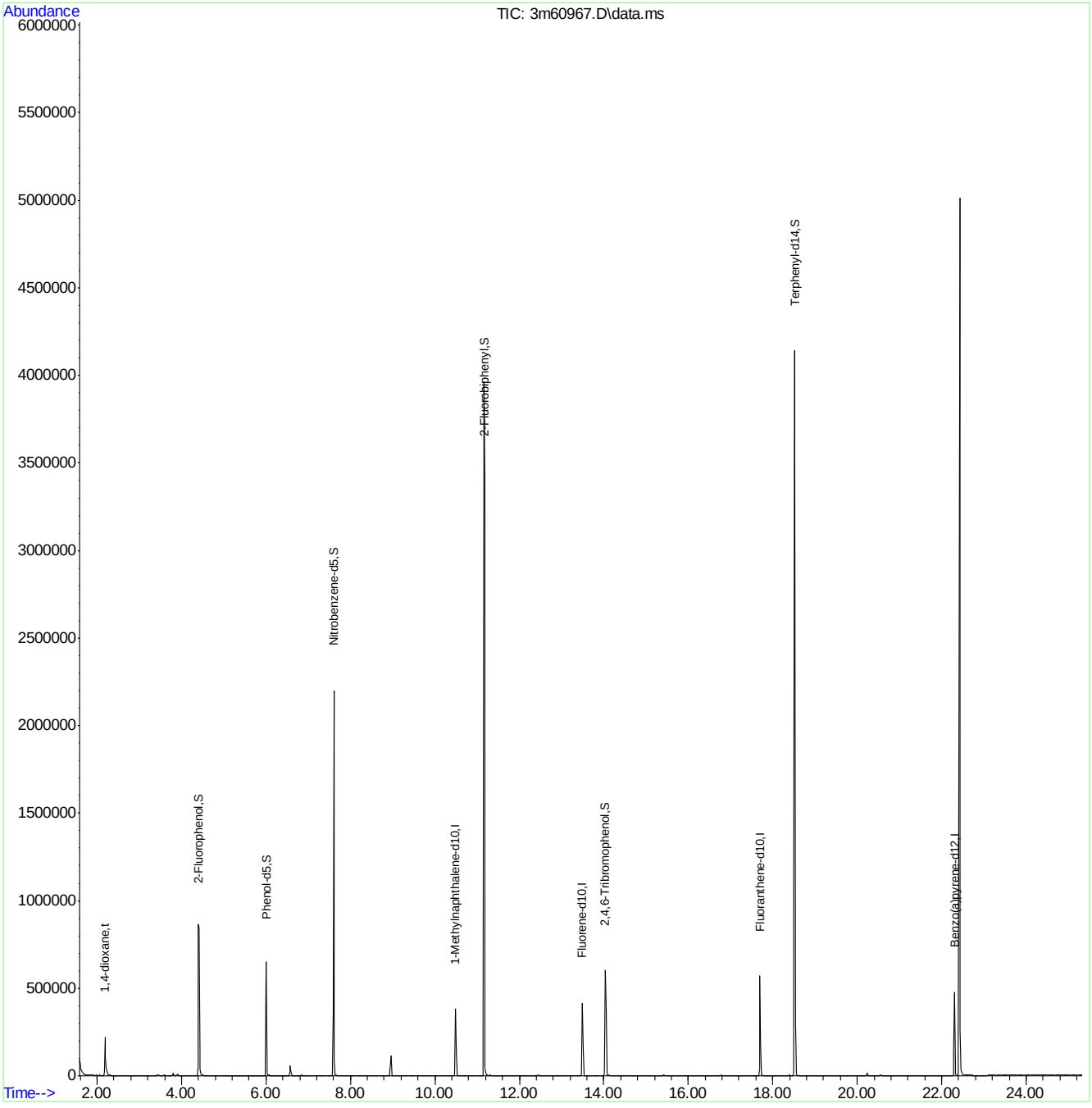
7

SGS ACCUTEST JC19214

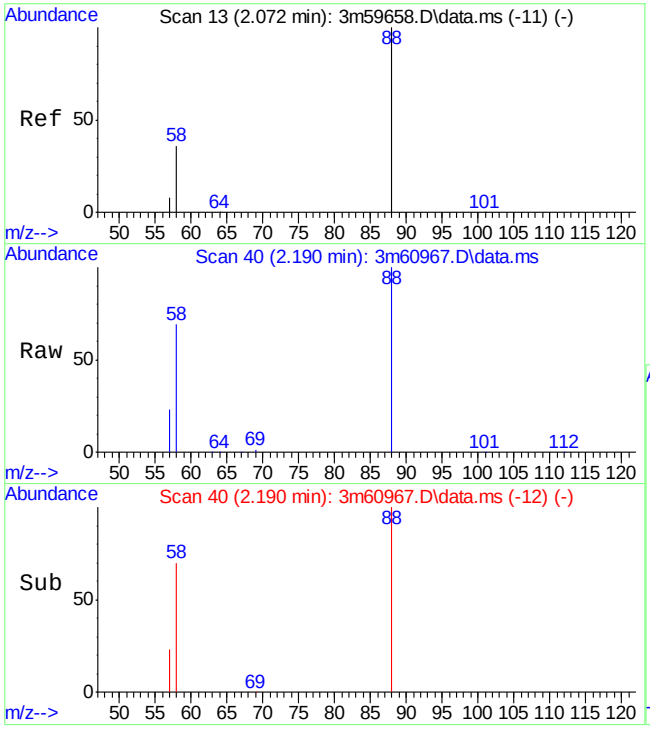
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60967.D
Acq On : 29 Apr 2016 11:27 am
Operator : ashleyd
Sample : jc19214-1
Misc : op93443a,e3m2867,900
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 29 15:25:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



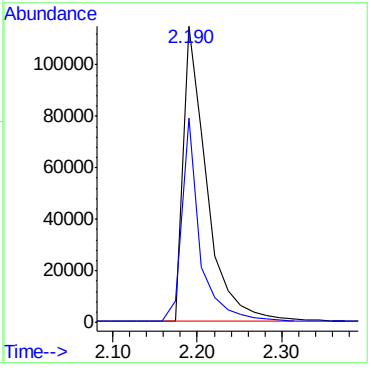
M3M2855SIM.M Fri Apr 29 15:25:29 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 18.22 ppm
RT: 2.190 min Scan# 40
Delta R.T. -0.061 min
Lab File: 3m60967.D
Acq: 29 Apr 2016 11:27 am

Tgt Ion: 88 Resp: 221135

Ion	Ratio	Lower	Upper
88	100		
58	69.1	0.0	36.8#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60968.D
Acq On : 29 Apr 2016 11:59 am
Operator : ashleyd
Sample : jc19214-2
Misc : op93443a,e3m2867,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 15:26:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	219189	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	302434	4.00	ppm	-0.16
21) Fluoranthene-d10	17.701	212	516857	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	395463	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	641391	23.39	ppm	-0.09
Spiked Amount 50.000			Recovery = 46.78%			
4) Phenol-d5	6.012	99	718868	15.84	ppm	-0.08
Spiked Amount 50.000			Recovery = 31.68%			
7) Nitrobenzene-d5	7.606	82	1957810	46.40	ppm	-0.11
Spiked Amount 50.000			Recovery = 92.80%			
15) 2-Fluorobiphenyl	11.176	172	4124117	49.63	ppm	-0.13
Spiked Amount 50.000			Recovery = 99.26%			
20) 2,4,6-Tribromophenol	14.033	330	452116	47.77	ppm	-0.14
Spiked Amount 50.000			Recovery = 95.54%			
28) Terphenyl-d14	18.519	244	3676187	49.03	ppm	-0.14
Spiked Amount 50.000			Recovery = 98.06%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.190	88	124279	10.97	ppm	# 23

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

7.1.4

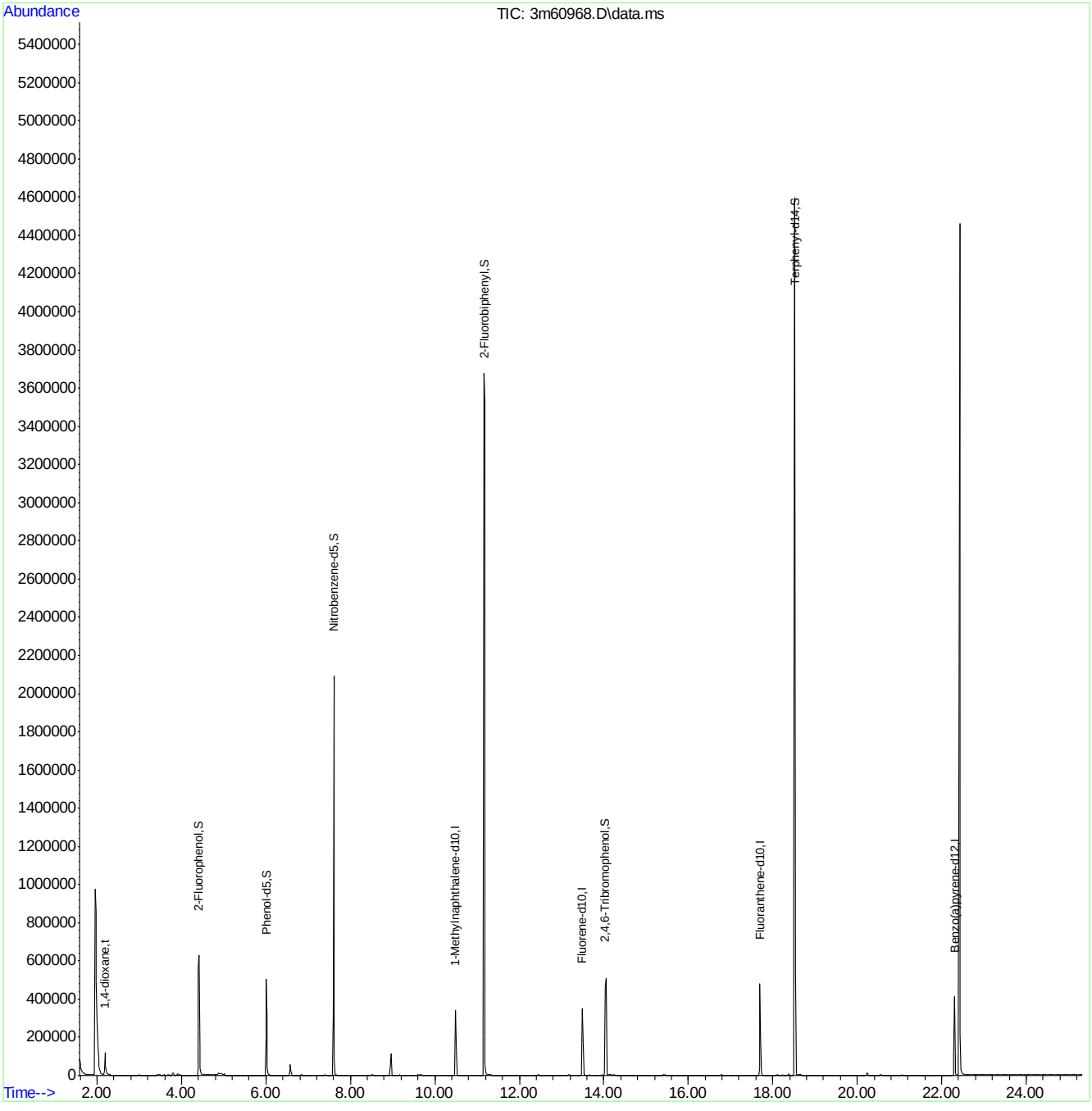
7

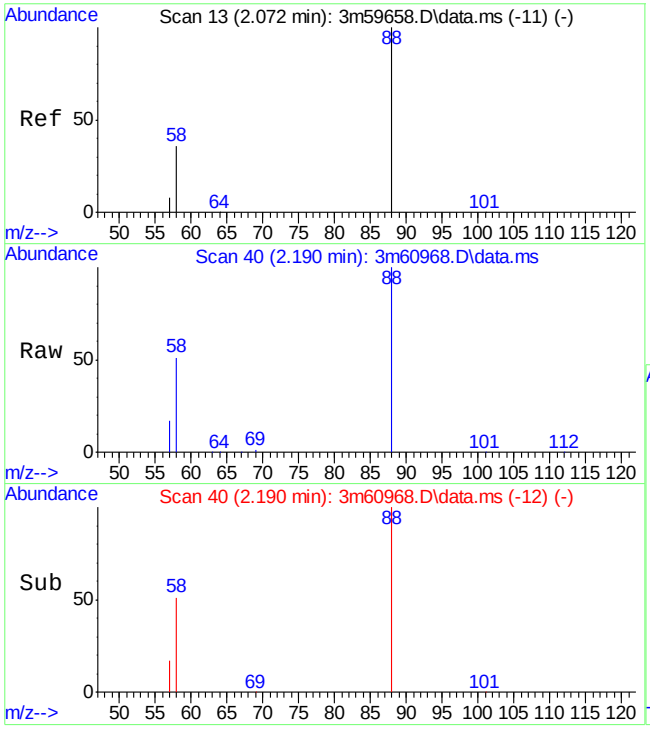
SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60968.D
Acq On : 29 Apr 2016 11:59 am
Operator : ashleyd
Sample : jc19214-2
Misc : op93443a,e3m2867,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 29 15:26:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

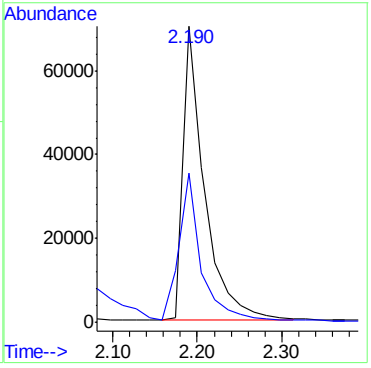




#2
1,4-dioxane
Concen: 10.97 ppm
RT: 2.190 min Scan# 40
Delta R.T. -0.061 min
Lab File: 3m60968.D
Acq: 29 Apr 2016 11:59 am

Tgt Ion: 88 Resp: 124279

Ion	Ratio	Lower	Upper
88	100		
58	50.2	0.0	36.8#



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156637.D Vial: 6
Acq On : 28 Apr 2016 11:32 pm Operator: juliusj
Sample : op93443-mb1 Inst : MSF
Misc : op93443,ef6595,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:40:35 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.75	152	455548	40.00	ppm	0.00
24) Naphthalene-d8	5.67	136	1843931	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	1111344	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1828256	40.00	ppm	0.00
83) Chrysene-d12	14.26	240	1707881	40.00	ppm	-0.02
92) Perylene-d12	17.30	264	1621774	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.75	152	455548	40.00	ppm	0.00
104) Naphthalene-d8b	5.67	136	1843931	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	1111344	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1828256	40.00	ppm	0.00
110) Chrysene-d12b	14.26	240	1707946	40.00	ppm	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.80	112	487132	30.41	ppm	0.01
Spiked Amount 50.000			Recovery = 60.82%			
8) Phenol-d5	4.53	99	388401	19.94	ppm	0.03
Spiked Amount 50.000			Recovery = 39.88%			
25) Nitrobenzene-d5	5.16	82	1012982	58.83	ppm	-0.01
Spiked Amount 50.000			Recovery = 117.66%			
51) 2-Fluorobiphenyl	6.49	172	1768993	49.87	ppm	0.00
Spiked Amount 50.000			Recovery = 99.74%			
73) 2,4,6-Tribromophenol	8.01	330	230200	61.70	ppm	0.00
Spiked Amount 50.000			Recovery = 123.40%			
85) Terphenyl-d14	12.06	244	1741470	50.21	ppm	-0.03
Spiked Amount 50.000			Recovery = 100.42%			

Target Compounds Qvalue

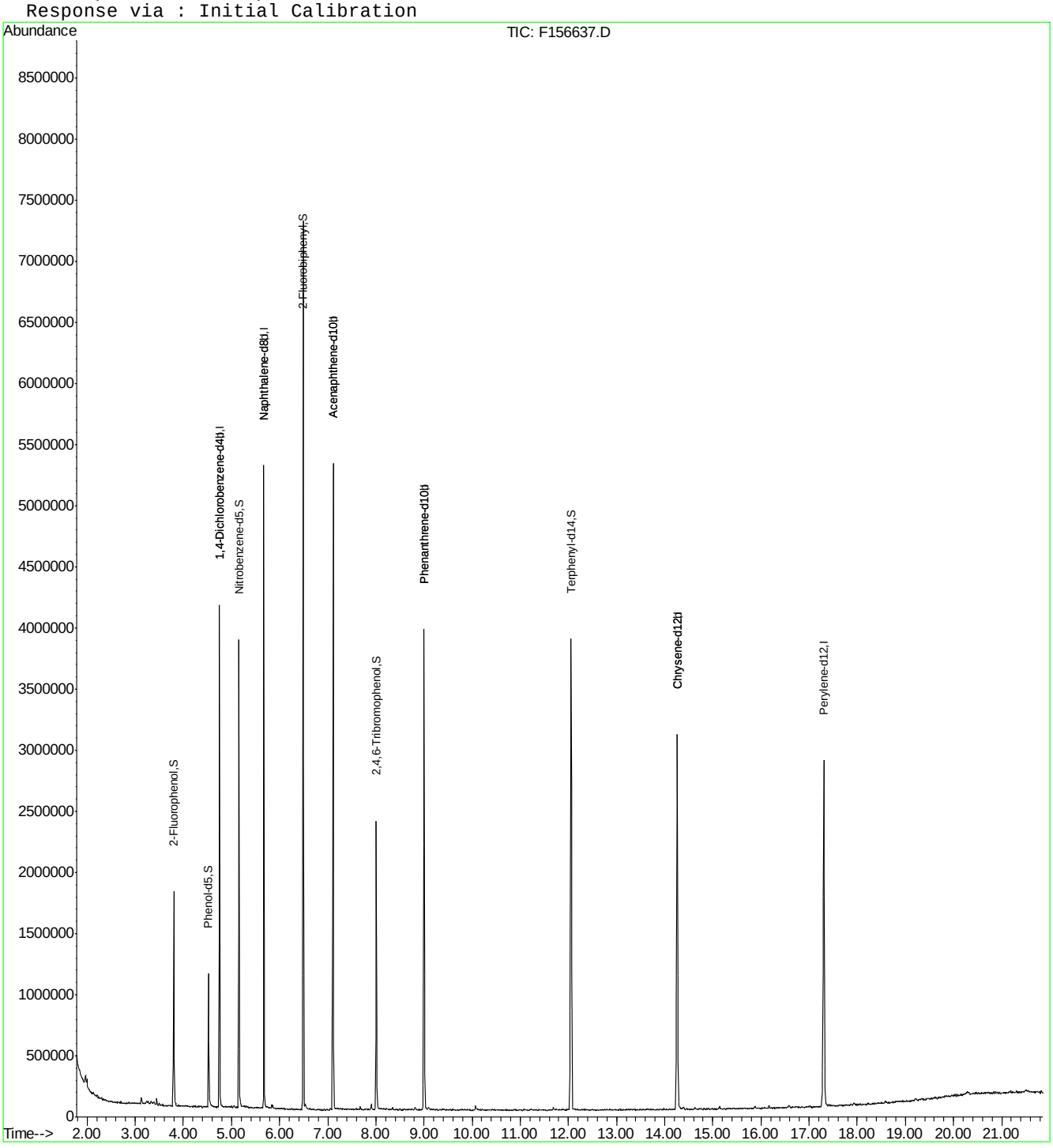
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156637.D Vial: 6
Acq On : 28 Apr 2016 11:32 pm Operator: juliusj
Sample : op93443-mb1 Inst : MSF
Misc : op93443,ef6595,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:41 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60965.D
Acq On : 29 Apr 2016 10:24 am
Operator : ashleyd
Sample : op93443a-mb1
Misc : op93443a,e3m2867,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 15:23:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	224304	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	324402	4.00	ppm	-0.16
21) Fluoranthene-d10	17.701	212	542861	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	448813	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	959991	34.21	ppm	-0.09
Spiked Amount 50.000			Recovery = 68.42%			
4) Phenol-d5	6.012	99	992415	21.37	ppm	-0.08
Spiked Amount 50.000			Recovery = 42.74%			
7) Nitrobenzene-d5	7.606	82	2497539	57.85	ppm	-0.11
Spiked Amount 50.000			Recovery = 115.70%			
15) 2-Fluorobiphenyl	11.176	172	5108740	57.31	ppm	-0.13
Spiked Amount 50.000			Recovery = 114.62%			
20) 2,4,6-Tribromophenol	14.052	330	583658	57.49	ppm	-0.12
Spiked Amount 50.000			Recovery = 114.98%			
28) Terphenyl-d14	18.519	244	4484342	56.95	ppm	-0.14
Spiked Amount 50.000			Recovery = 113.90%			
Target Compounds						Qvalue

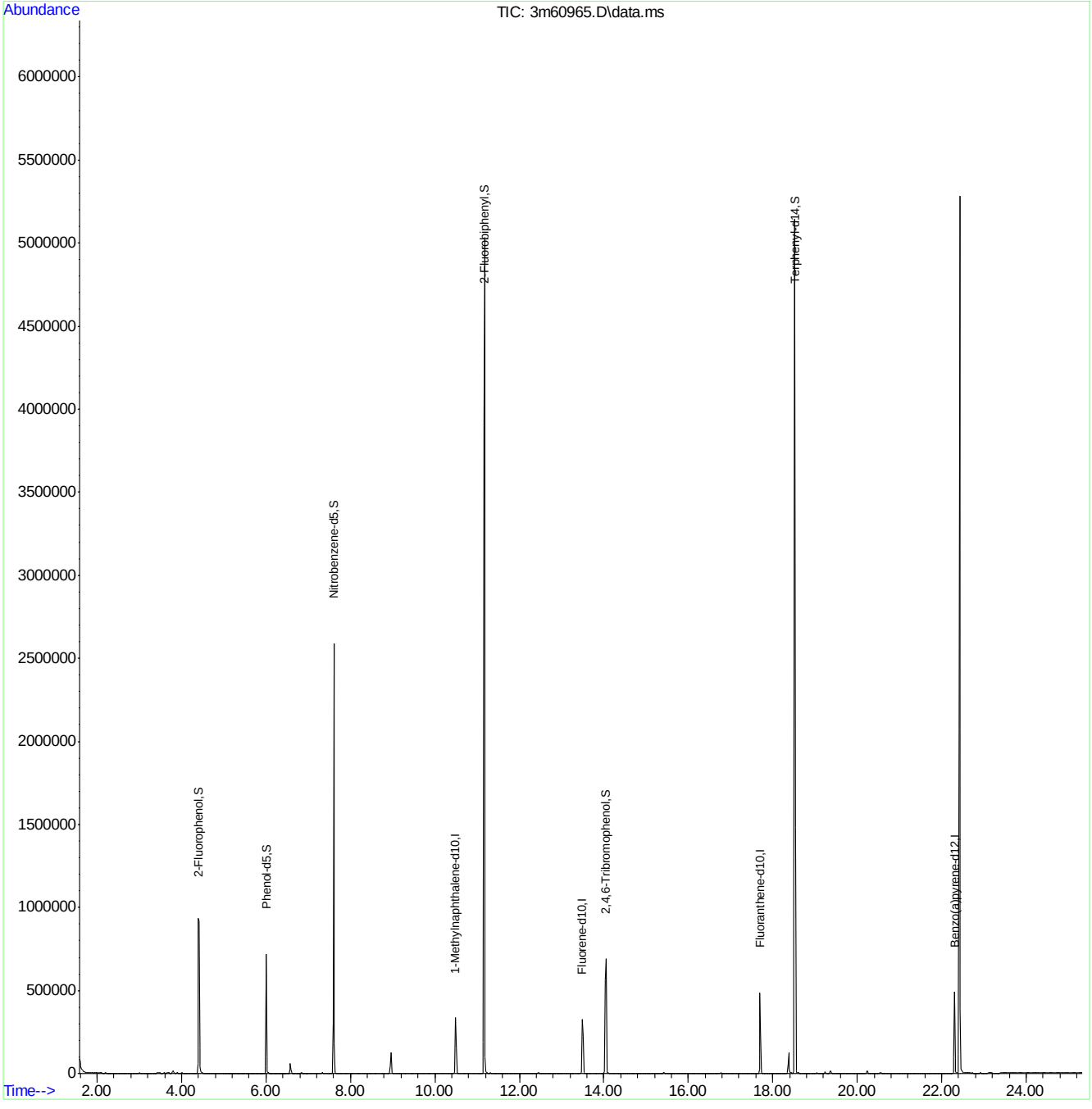
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60965.D
Acq On : 29 Apr 2016 10:24 am
Operator : ashleyd
Sample : op93443a-mb1
Misc : op93443a,e3m2867,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 29 15:23:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156638.D Vial: 7
Acq On : 29 Apr 2016 12:01 am Operator: juliusj
Sample : op93443-bs1 Inst : MSF
Misc : op93443,ef6595,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:41:38 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.75	152	453707	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	1888859	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	1108763	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1804005	40.00	ppm	0.00
83) Chrysene-d12	14.27	240	1668146	40.00	ppm	-0.01
92) Perylene-d12	17.31	264	1556944	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.75	152	453707	40.00	ppm	0.00
104) Naphthalene-d8b	5.68	136	1888859	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	1108763	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1804005	40.00	ppm	0.00
110) Chrysene-d12b	14.27	240	1668146	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	499310	31.29	ppm	0.01
Spiked Amount 50.000			Recovery = 62.58%			
8) Phenol-d5	4.52	99	432468	22.29	ppm	0.02
Spiked Amount 50.000			Recovery = 44.58%			
25) Nitrobenzene-d5	5.16	82	913409	51.78	ppm	0.00
Spiked Amount 50.000			Recovery = 103.56%			
51) 2-Fluorobiphenyl	6.49	172	1492217	42.17	ppm	0.00
Spiked Amount 50.000			Recovery = 84.34%			
73) 2,4,6-Tribromophenol	8.01	330	197960	53.77	ppm	0.00
Spiked Amount 50.000			Recovery = 107.54%			
85) Terphenyl-d14	12.05	244	1609807	47.52	ppm	-0.03
Spiked Amount 50.000			Recovery = 95.04%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.33	88	156650	22.30	ppm		98
3) Pyridine	2.66	79	75378	4.55	ppm		96
4) N-Nitrosodimethylamine	2.61	42	195571	32.84	ppm		97
6) Indene	4.94	116	1237727	46.09	ppm		98
7) Cumene	4.16	105	1540234	42.70	ppm		93
9) Phenol	4.53	94	509709	24.68	ppm	#	50
10) Aniline	4.51	93	545881	24.15	ppm		96
11) bis(2-Chloroethyl)ether	4.56	93	677860	45.62	ppm		97
12) 2-Chlorophenol	4.61	128	688050	40.85	ppm		91
13) Decane	4.63	43	379607	26.20	ppm		90
14) 1,3-Dichlorobenzene	4.71	146	606682	32.48	ppm		98
15) 1,4-Dichlorobenzene	4.77	146	629475	33.77	ppm		99
16) Benzyl alcohol	4.86	108	397354	36.99	ppm	#	70
17) 1,2-Dichlorobenzene	4.88	146	594500	33.93	ppm		100
18) Acetophenone	5.05	105	1080165	53.20	ppm	#	74
19) 2-Methylphenol	4.96	108	608056	42.15	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.95	121	201551	37.63	ppm	#	64
21) 3&4-Methylphenol	5.07	108	589685	39.85	ppm		96
22) n-Nitroso-di-n-propylamine	5.05	70	581304	53.03	ppm		98
23) Hexachloroethane	5.12	201	189888	32.89	ppm		97
26) Nitrobenzene	5.17	77	896942	48.55	ppm		82
27) Quinoline	5.94	129	1416679	38.81	ppm		98
28) Isophorone	5.35	82	1600667	50.73	ppm		99

(#) = qualifier out of range (m) = manual integration
F156638.D MF6563.M Fri Apr 29 11:42:49 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156638.D Vial: 7
Acq On : 29 Apr 2016 12:01 am Operator: juliusj
Sample : op93443-bs1 Inst : MSF
Misc : op93443,ef6595,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:41:38 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.40	139	385880	40.26	ppm		80
30)	2,4-Dimethylphenol	5.44	107	683096	45.25	ppm		97
31)	Benzoic acid	5.53	105	254064	20.13	ppm		96
32)	bis(2-Chloroethoxy)methane	5.50	93	818312	41.15	ppm		97
33)	2,4-Dichlorophenol	5.59	162	603769	40.05	ppm		93
34)	2,6-Dichlorophenol	5.74	162	593011	40.95	ppm		96
36)	1,2,4-Trichlorobenzene	5.64	180	482446	30.95	ppm		98
38)	Naphthalene	5.70	128	1832565	35.53	ppm		98
39)	4-Chloroaniline	5.74	127	651964	30.61	ppm		95
40)	2,3-Dichloroaniline	6.43	161	708960	40.37	ppm		96
41)	Caprolactam	5.99	55	80544	11.24	ppm		91
42)	Hexachlorobutadiene	5.78	225	250522	33.94	ppm		98
43)	4-Chloro-3-methylphenol	6.11	107	700366	47.36	ppm		97
44)	2-Methylnaphthalene	6.20	141	1124954	38.68	ppm		96
45)	1-Methylnaphthalene	6.28	141	1209183	40.39	ppm		96
46)	Dimethylnaphthalene	6.72	156	1168472	38.52	ppm		98
48)	Hexachlorocyclopentadiene	6.33	237	525161	69.80	ppm		96
49)	2,4,6-Trichlorophenol	6.43	196	418909	44.53	ppm		98
50)	2,4,5-Trichlorophenol	6.48	196	428718	41.39	ppm		99
52)	2-Chloronaphthalene	6.60	162	1132638	35.35	ppm		94
53)	Biphenyl	6.58	154	1660336	40.36	ppm		99
54)	2-Nitroaniline	6.69	65	497845	54.83	ppm		87
55)	Dimethylphthalate	6.84	163	1586464	44.25	ppm		99
56)	Acenaphthylene	6.97	152	1912853	36.83	ppm		99
57)	2,6-Dinitrotoluene	6.90	165	340035	43.88	ppm		77
58)	3-Nitroaniline	7.07	138	331189	34.14	ppm		75
59)	Acenaphthene	7.14	153	1250157	38.33	ppm		92
60)	2,4-Dinitrophenol	7.18	184	410532	90.24	ppm	#	54
61)	4-Nitrophenol	7.30	109	175922	38.60	ppm		87
62)	Dibenzofuran	7.32	168	1816611	40.81	ppm		93
63)	2,4-Dinitrotoluene	7.31	165	488908	46.55	ppm		77
64)	2,3,4,6-Tetrachlorophenol	7.46	232	328369	42.04	ppm		89
65)	Diethylphthalate	7.58	149	1619230	45.70	ppm		97
66)	Fluorene	7.71	166	1459787	42.61	ppm		99
67)	4-Chlorophenyl-phenylether	7.71	204	615857	40.80	ppm		93
68)	4-Nitroaniline	7.75	138	369978	37.76	ppm		93
70)	4,6-Dinitro-2-methylphenol	7.77	198	286433	50.26	ppm		84
71)	n-Nitrosodiphenylamine	7.86	169	1066148	41.29	ppm		99
72)	1,2-Diphenylhydrazine	7.91	77	1847296	51.77	ppm		92
74)	4-Bromophenyl-phenylether	8.34	248	372952	42.98	ppm		87
75)	Hexachlorobenzene	8.43	284	401934	48.52	ppm		98
76)	Pentachlorophenol	8.73	266	256001	46.91	ppm		96
77)	Phenanthrene	9.04	178	2198469	42.36	ppm		99
78)	Anthracene	9.12	178	2178644	41.93	ppm		99
79)	Carbazole	9.40	167	2067653	42.45	ppm		98
80)	Di-n-butylphthalate	10.10	149	2780691	45.71	ppm		98
81)	Fluoranthene	11.18	202	2314561	44.97	ppm		95
82)	Octadecane	8.90	57	825234	39.08	ppm		87
84)	Pyrene	11.63	202	2460427	41.59	ppm		93

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156638.D Vial: 7
Acq On : 29 Apr 2016 12:01 am Operator: juliusj
Sample : op93443-bs1 Inst : MSF
Misc : op93443,ef6595,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:41:38 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

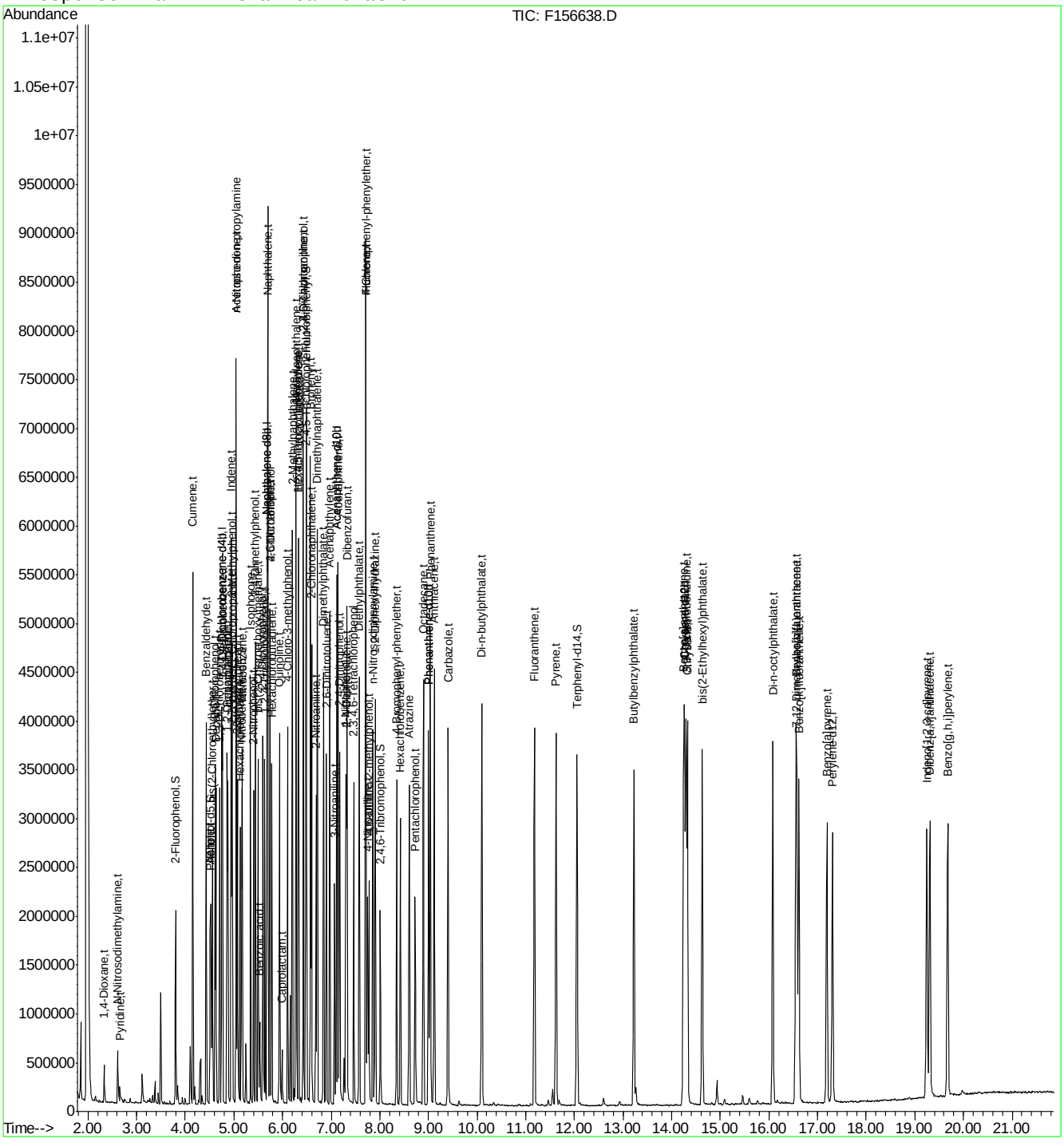
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.22	149	1215526	41.83	ppm	88
88)	Benzo[a]anthracene	14.25	228	2103225	41.63	ppm	99
89)	3,3'-Dichlorobenzidine	14.30	252	1161058	65.97	ppm	98
90)	Chrysene	14.32	228	2087283	41.56	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.63	149	1710158	42.47	ppm	95
93)	Di-n-octylphthalate	16.08	149	2912771	42.70	ppm	99
94)	Benzo[b]fluoranthene	16.56	252	2136553	44.40	ppm	96
95)	Benzo[k]fluoranthene	16.62	252	2097626	44.54	ppm	98
96)	Benzo[a]pyrene	17.19	252	1896359	43.06	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.25	276	1812086	44.58	ppm	97
99)	Dibenz[a,h]anthracene	19.31	278	1821861	46.33	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.58	256	860781	45.81	ppm	98
101)	Benzo[g,h,i]perylene	19.68	276	1916398	43.63	ppm	99
103)	Benzaldehyde	4.43	105	567172	44.39	ppm	97
107)	1,2,4,5-Tetrachlorobenzene	6.33	216	497392	32.24	ppm	97
109)	Atrazine	8.61	200	434726	50.13	ppm	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156638.D Vial: 7
Acq On : 29 Apr 2016 12:01 am Operator: juliusj
Sample : op93443-bs1 Inst : MSF
Misc : op93443,ef6595,1000 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:42 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60966.D
Acq On : 29 Apr 2016 10:56 am
Operator : ashleyd
Sample : op93443a-bs12
Misc : op93443a,e3m2867,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 15:23:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	239029	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	342423	4.00	ppm	-0.16
21) Fluoranthene-d10	17.700	212	565004	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	453180	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	652920	21.83	ppm	-0.09
Spiked Amount 50.000			Recovery = 43.66%			
4) Phenol-d5	6.012	99	708320	14.31	ppm	-0.08
Spiked Amount 50.000			Recovery = 28.62%			
7) Nitrobenzene-d5	7.606	82	1494562	32.48	ppm	-0.11
Spiked Amount 50.000			Recovery = 64.96%			
15) 2-Fluorobiphenyl	11.160	172	3145309	33.43	ppm	-0.14
Spiked Amount 50.000			Recovery = 66.86%			
20) 2,4,6-Tribromophenol	14.033	330	425845	39.74	ppm	-0.14
Spiked Amount 50.000			Recovery = 79.48%			
28) Terphenyl-d14	18.519	244	3794632	46.30	ppm	-0.14
Spiked Amount 50.000			Recovery = 92.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	4147	0.34	ppm	80
5) Phenol	6.024	94	153708	2.88	ppm #	85
6) bis(2-Chloroethyl)ether	6.169	93	23510	0.58	ppm #	62
8) Nitrobenzene	7.625	77	32311	0.65	ppm #	50
9) Naphthalene	8.999	128	95998	0.72	ppm	95
10) Hexachlorobutadiene	9.301	225	14423	0.62	ppm	67
11) 2-Methylnaphthalene	10.365	141	44584	0.64	ppm #	53
13) Hexachlorocyclopentadiene	10.713	237	7141	0.39	ppm	90
16) Acenaphthylene	12.150	152	82314	0.69	ppm	96
17) Acenaphthene	12.505	153	59871	0.76	ppm	94
18) 4,6-dinitro-2-methylph...	13.712	198	76406	6.51	ppm	67
19) Fluorene	13.543	166	75751	0.80	ppm	95
22) Hexachlorobenzene	14.640	284	19392	0.73	ppm	99
23) Pentachlorophenol	15.057	266	114341	6.15	ppm	83
24) Phenanthrene	15.459	178	111268	0.80	ppm #	56
25) Anthracene	15.552	178	97448	0.80	ppm	88
26) Fluoranthene	17.731	202	130120	0.75	ppm	96
27) Pyrene	18.118	202	124991	0.77	ppm	93
29) Benzo[a]anthracene	20.219	228	97065	0.63	ppm	92
30) Chrysene	20.265	228	107345	0.72	ppm	90
32) Benzo[b]fluoranthene	21.872	252	97905	0.65	ppm	96
33) Benzo[k]fluoranthene	21.918	252	81550	0.58	ppm	98
34) Benzo[a]pyrene	22.336	252	79561	0.57	ppm	88
35) Indeno[1,2,3-cd]pyrene	23.805	276	80503	0.56	ppm	95
36) Dibenz[a,h]anthracene	23.843	278	64472	0.55	ppm	100
37) Benzo[g,h,i]perylene	24.182	276	65109	0.52	ppm	99

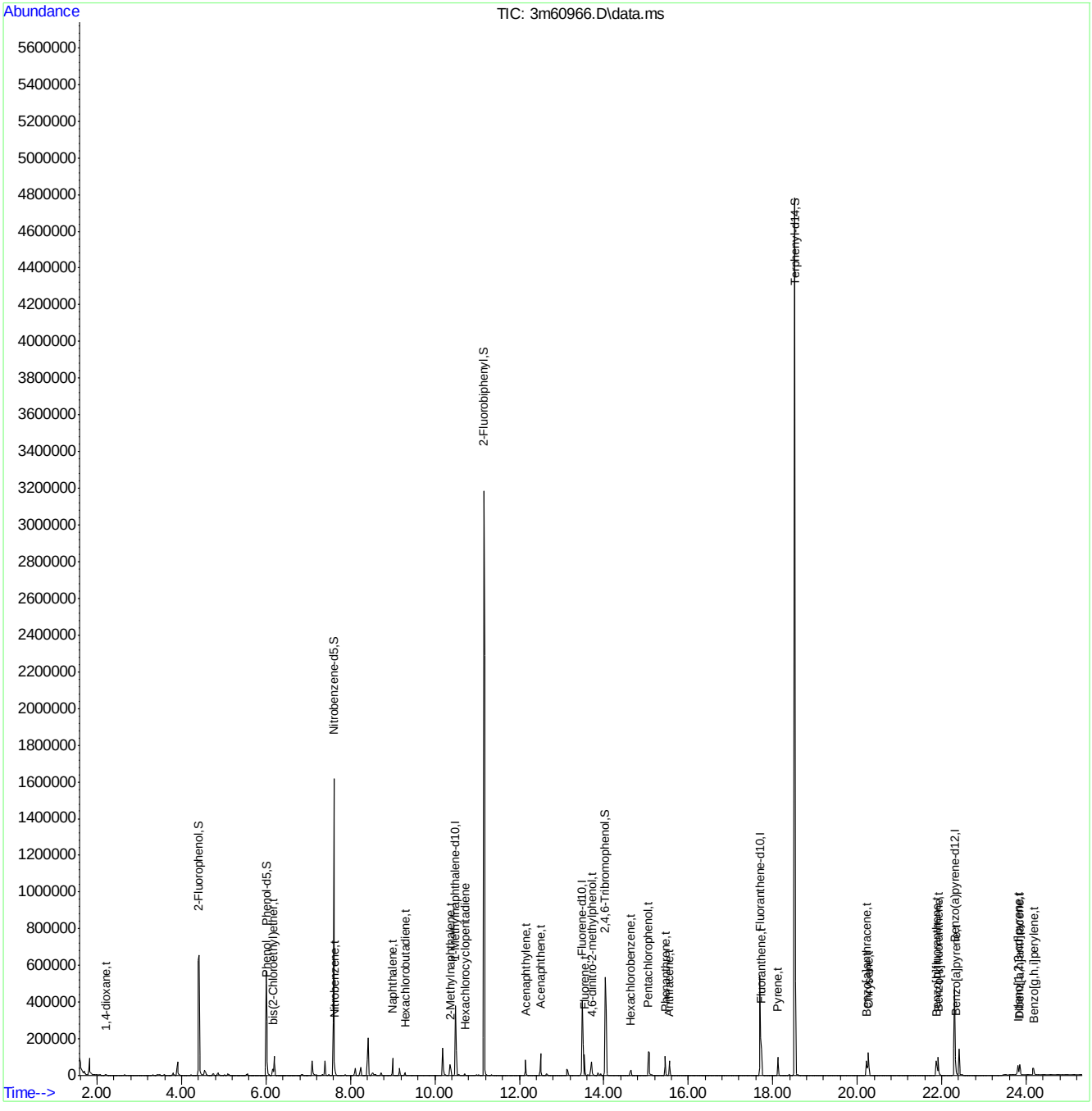
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60966.D
Acq On : 29 Apr 2016 10:56 am
Operator : ashleyd
Sample : op93443a-bs12
Misc : op93443a,e3m2867,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 29 15:23:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156639.D Vial: 8
Acq On : 29 Apr 2016 12:29 am Operator: juliusj
Sample : op93443-ms Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:43:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.75	152	410937	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	1692019	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	986801	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1575072	40.00	ppm	0.00
83) Chrysene-d12	14.26	240	1463596	40.00	ppm	-0.02
92) Perylene-d12	17.30	264	1342726	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.75	152	410937	40.00	ppm	0.00
104) Naphthalene-d8b	5.68	136	1692019	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	986801	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1575072	40.00	ppm	0.00
110) Chrysene-d12b	14.26	240	1463498	40.00	ppm	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	571729	39.56	ppm	0.01
Spiked Amount 50.000			Recovery = 79.12%			
8) Phenol-d5	4.52	99	609129	34.66	ppm	0.02
Spiked Amount 50.000			Recovery = 69.32%			
25) Nitrobenzene-d5	5.16	82	832207	52.67	ppm	0.00
Spiked Amount 50.000			Recovery = 105.34%			
51) 2-Fluorobiphenyl	6.49	172	1447512	45.96	ppm	0.00
Spiked Amount 50.000			Recovery = 91.92%			
73) 2,4,6-Tribromophenol	8.01	330	181874	56.58	ppm	0.00
Spiked Amount 50.000			Recovery = 113.16%			
85) Terphenyl-d14	12.05	244	1402701	47.19	ppm	-0.03
Spiked Amount 50.000			Recovery = 94.38%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.33	88	193699	30.44	ppm		97
3) Pyridine	2.64	79	461387	30.78	ppm		98
4) N-Nitrosodimethylamine	2.61	42	243429	45.13	ppm		100
6) Indene	4.94	116	1158167	47.62	ppm		99
7) Cumene	4.16	105	1481866	45.36	ppm		93
9) Phenol	4.53	94	678910	36.29	ppm	#	50
10) Aniline	4.51	93	570696	27.88	ppm		98
11) bis(2-Chloroethyl)ether	4.56	93	619413	46.02	ppm		97
12) 2-Chlorophenol	4.61	128	654237	42.88	ppm		92
13) Decane	4.63	43	421385	32.10	ppm		92
14) 1,3-Dichlorobenzene	4.71	146	645186	38.13	ppm		99
15) 1,4-Dichlorobenzene	4.77	146	674195	39.93	ppm		99
16) Benzyl alcohol	4.86	108	412367	42.39	ppm	#	70
17) 1,2-Dichlorobenzene	4.88	146	637498	40.17	ppm		97
18) Acetophenone	5.05	105	957051	52.04	ppm	#	75
19) 2-Methylphenol	4.96	108	609444	46.64	ppm		98
20) 2,2'-oxybis(1-Chloropropan	4.95	121	192737	39.73	ppm	#	63
21) 3&4-Methylphenol	5.08	108	617656	46.09	ppm		100
22) n-Nitroso-di-n-propylamine	5.05	70	534403	53.82	ppm		96
23) Hexachloroethane	5.12	201	219781	42.03	ppm		97
26) Nitrobenzene	5.17	77	832194	50.29	ppm		82
27) Quinoline	5.94	129	1313578	40.17	ppm		98
28) Isophorone	5.34	82	1461581	51.71	ppm		93

(#) = qualifier out of range (m) = manual integration
F156639.D MF6563.M Fri Apr 29 11:44:22 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156639.D Vial: 8
Acq On : 29 Apr 2016 12:29 am Operator: juliusj
Sample : op93443-ms Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:43:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	2-Nitrophenol	5.40	139	356077	41.48	ppm		89
30)	2,4-Dimethylphenol	5.44	107	704208	52.07	ppm		98
31)	Benzoic acid	5.54	105	404479	35.77	ppm		94
32)	bis(2-Chloroethoxy)methane	5.50	93	747783	41.98	ppm		98
33)	2,4-Dichlorophenol	5.59	162	554799	41.08	ppm		94
34)	2,6-Dichlorophenol	5.74	162	545133	42.02	ppm		96
36)	1,2,4-Trichlorobenzene	5.64	180	522716	37.43	ppm		99
38)	Naphthalene	5.70	128	1906203	41.26	ppm		100
39)	4-Chloroaniline	5.74	127	382072	20.03	ppm		97
40)	2,3-Dichloroaniline	6.43	161	587969	37.37	ppm		96
41)	Caprolactam	5.99	55	117746	18.34	ppm		88
42)	Hexachlorobutadiene	5.78	225	272940	41.28	ppm		98
43)	4-Chloro-3-methylphenol	6.11	107	620263	46.82	ppm		86
44)	2-Methylnaphthalene	6.20	141	1060429	40.70	ppm		96
45)	1-Methylnaphthalene	6.28	141	1122336	41.85	ppm		97
46)	Dimethylnaphthalene	6.72	156	1123939	41.37	ppm		97
48)	Hexachlorocyclopentadiene	6.33	237	590775	88.23	ppm		96
49)	2,4,6-Trichlorophenol	6.43	196	386068	46.11	ppm		98
50)	2,4,5-Trichlorophenol	6.48	196	383034	41.55	ppm		100
52)	2-Chloronaphthalene	6.60	162	1182835	41.48	ppm		94
53)	Biphenyl	6.58	154	1558824	42.57	ppm		99
54)	2-Nitroaniline	6.69	65	437019	54.08	ppm		89
55)	Dimethylphthalate	6.84	163	1421270	44.54	ppm		99
56)	Acenaphthylene	6.97	152	1903627	41.19	ppm		100
57)	2,6-Dinitrotoluene	6.90	165	312347	45.29	ppm		86
58)	3-Nitroaniline	7.07	138	200313	23.20	ppm	#	71
59)	Acenaphthene	7.14	153	1258689	43.36	ppm		92
60)	2,4-Dinitrophenol	7.17	184	363911	89.89	ppm	#	53
61)	4-Nitrophenol	7.29	109	228654	56.37	ppm		92
62)	Dibenzofuran	7.32	168	1679348	42.39	ppm		97
63)	2,4-Dinitrotoluene	7.30	165	435444	46.59	ppm		68
64)	2,3,4,6-Tetrachlorophenol	7.46	232	303488	43.65	ppm		90
65)	Diethylphthalate	7.58	149	1442425	45.74	ppm		98
66)	Fluorene	7.71	166	1381193	45.30	ppm		98
67)	4-Chlorophenyl-phenylether	7.71	204	609901	45.40	ppm		93
68)	4-Nitroaniline	7.75	138	332094	38.09	ppm		98
70)	4,6-Dinitro-2-methylphenol	7.77	198	250712	50.39	ppm		85
71)	n-Nitrosodiphenylamine	7.86	169	969707	43.02	ppm		100
72)	1,2-Diphenylhydrazine	7.91	77	1699516	54.55	ppm		91
74)	4-Bromophenyl-phenylether	8.34	248	338170	44.63	ppm		89
75)	Hexachlorobenzene	8.43	284	351550	48.61	ppm		94
76)	Pentachlorophenol	8.72	266	227925	47.84	ppm		94
77)	Phenanthrene	9.04	178	1988629	43.89	ppm		99
78)	Anthracene	9.12	178	1964795	43.31	ppm		99
79)	Carbazole	9.40	167	1817283	42.73	ppm		98
80)	Di-n-butylphthalate	10.10	149	2463023	46.37	ppm		98
81)	Fluoranthene	11.18	202	2037153	45.34	ppm		95
82)	Octadecane	8.90	57	721805	39.15	ppm		87
84)	Pyrene	11.63	202	2183875	42.07	ppm		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156639.D Vial: 8
Acq On : 29 Apr 2016 12:29 am Operator: juliusj
Sample : op93443-ms Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:43:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.22	149	1072808	42.08	ppm	88
88)	Benzo[a]anthracene	14.24	228	1870001	42.18	ppm	99
89)	3,3'-Dichlorobenzidine	14.29	252	871310	56.42	ppm	97
90)	Chrysene	14.32	228	1825936	41.43	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.63	149	1492707	42.25	ppm	97
93)	Di-n-octylphthalate	16.08	149	2529230	42.99	ppm	99
94)	Benzo[b]fluoranthene	16.55	252	1831788	44.14	ppm	97
95)	Benzo[k]fluoranthene	16.62	252	1841418	45.34	ppm	98
96)	Benzo[a]pyrene	17.19	252	1652037	43.49	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.25	276	1549128	44.20	ppm	94
99)	Dibenz[a,h]anthracene	19.31	278	1572167	46.36	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.58	256	798046	49.25	ppm	97
101)	Benzo[g,h,i]perylene	19.68	276	1658271	43.78	ppm	100
103)	Benzaldehyde	4.43	105	526988	45.54	ppm	96
107)	1,2,4,5-Tetrachlorobenzene	6.33	216	545983	39.77	ppm	97
109)	Atrazine	8.61	200	377464	49.86	ppm	99
111)	Benzidine	11.53	184	577043	22.69	ppm	97

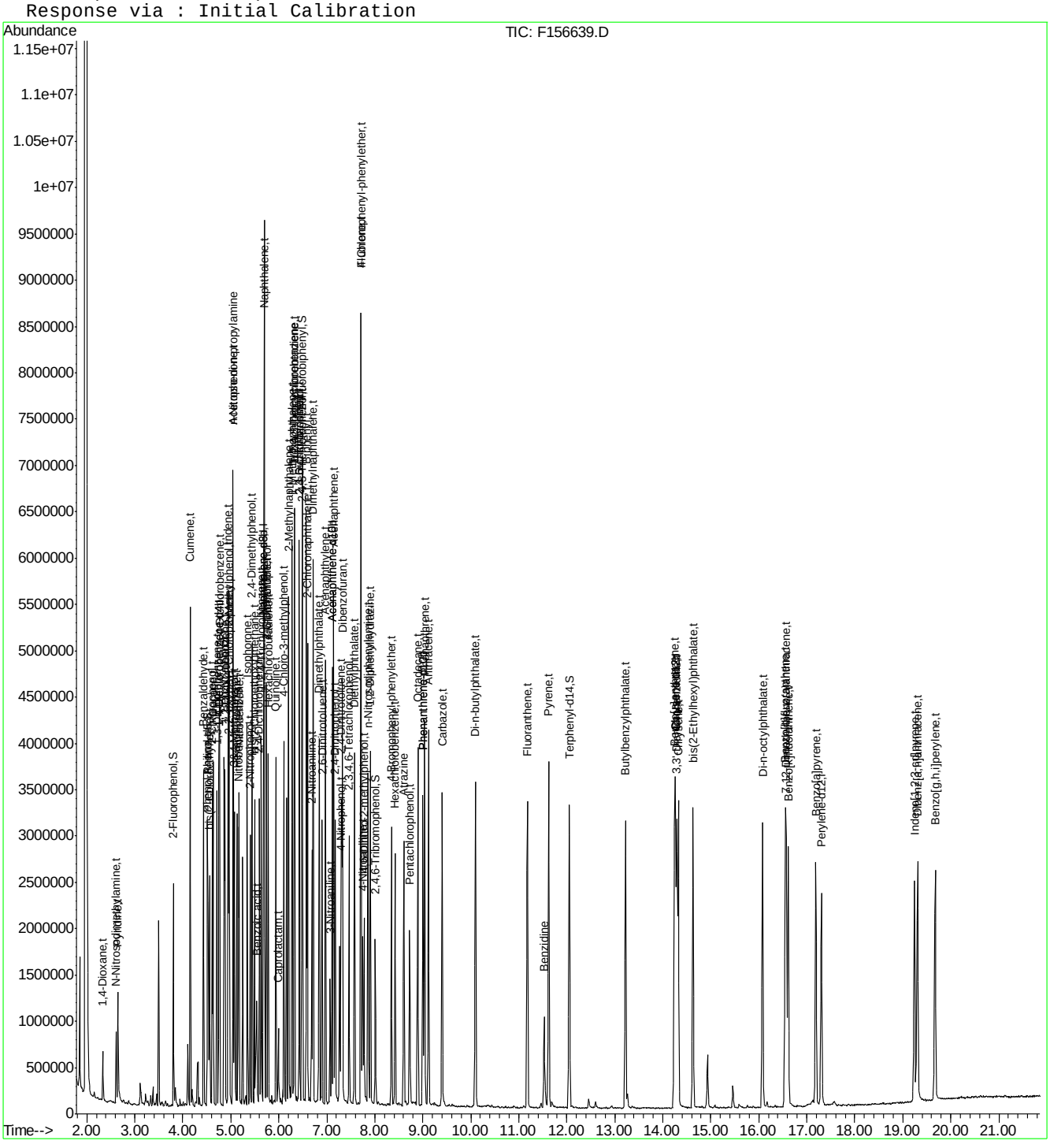
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156639.D Vial: 8
Acq On : 29 Apr 2016 12:29 am Operator: juliusj
Sample : op93443-ms Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:44 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156640.D Vial: 9
Acq On : 29 Apr 2016 12:57 am Operator: juliusj
Sample : op93443-msd Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:44:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	484701	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	1976994	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	1145864	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1849869	40.00	ppm	0.00
83) Chrysene-d12	14.27	240	1705999	40.00	ppm	-0.01
92) Perylene-d12	17.31	264	1569021	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4b	4.76	152	484701	40.00	ppm	0.00
104) Naphthalene-d8b	5.68	136	1976994	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	1145864	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1849869	40.00	ppm	0.00
110) Chrysene-d12b	14.27	240	1705999	40.00	ppm	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	651742	38.24	ppm	0.01
Spiked Amount 50.000			Recovery = 76.48%			
8) Phenol-d5	4.52	99	685173	33.05	ppm	0.02
Spiked Amount 50.000			Recovery = 66.10%			
25) Nitrobenzene-d5	5.16	82	972268	52.66	ppm	0.00
Spiked Amount 50.000			Recovery = 105.32%			
51) 2-Fluorobiphenyl	6.49	172	1660065	45.39	ppm	0.00
Spiked Amount 50.000			Recovery = 90.78%			
73) 2,4,6-Tribromophenol	8.01	330	210549	55.77	ppm	0.00
Spiked Amount 50.000			Recovery = 111.54%			
85) Terphenyl-d14	12.05	244	1592898	45.98	ppm	-0.03
Spiked Amount 50.000			Recovery = 91.96%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.34	88	223722	29.81	ppm		96
3) Pyridine	2.64	79	551709	31.20	ppm		99
4) N-Nitrosodimethylamine	2.61	42	280774	44.13	ppm		95
6) Indene	4.94	116	1356820	47.30	ppm		97
7) Cumene	4.16	105	1729605	44.89	ppm		93
9) Phenol	4.53	94	770038	34.90	ppm	#	49
10) Aniline	4.51	93	675732	27.98	ppm		99
11) bis(2-Chloroethyl)ether	4.56	93	728029	45.86	ppm		98
12) 2-Chlorophenol	4.61	128	748403	41.59	ppm		91
13) Decane	4.63	43	485448	31.36	ppm		90
14) 1,3-Dichlorobenzene	4.71	146	738010	36.98	ppm		99
15) 1,4-Dichlorobenzene	4.77	146	759943	38.16	ppm		99
16) Benzyl alcohol	4.86	108	476657	41.54	ppm	#	70
17) 1,2-Dichlorobenzene	4.88	146	735809	39.31	ppm		97
18) Acetophenone	5.05	105	1139640	52.54	ppm	#	73
19) 2-Methylphenol	4.96	108	691813	44.89	ppm		100
20) 2,2'-oxybis(1-Chloropropan	4.95	121	229140	40.04	ppm	#	61
21) 3&4-Methylphenol	5.08	108	715817	45.29	ppm		97
22) n-Nitroso-di-n-propylamine	5.05	70	621441	53.06	ppm		96
23) Hexachloroethane	5.12	201	245882	39.86	ppm		98
26) Nitrobenzene	5.17	77	969300	50.13	ppm		81
27) Quinoline	5.94	129	1566363	41.00	ppm		99
28) Isophorone	5.35	82	1690246	51.18	ppm		99

(#) = qualifier out of range (m) = manual integration
F156640.D MF6563.M Fri Apr 29 11:45:38 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156640.D Vial: 9
Acq On : 29 Apr 2016 12:57 am Operator: juliusj
Sample : op93443-msd Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:44:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) 2-Nitrophenol	5.40	139	415365	41.41	ppm		79
30) 2,4-Dimethylphenol	5.44	107	796807	50.43	ppm		97
31) Benzoic acid	5.55	105	454271	34.39	ppm		93
32) bis(2-Chloroethoxy)methane	5.50	93	863988	41.51	ppm		98
33) 2,4-Dichlorophenol	5.59	162	641113	40.63	ppm		97
34) 2,6-Dichlorophenol	5.74	162	618383	40.80	ppm		95
36) 1,2,4-Trichlorobenzene	5.64	180	609752	37.37	ppm		100
38) Naphthalene	5.70	128	2250570	41.69	ppm		99
39) 4-Chloroaniline	5.74	127	462083	20.73	ppm		96
40) 2,3-Dichloroaniline	6.43	161	682899	37.15	ppm		96
41) Caprolactam	5.99	55	128925	17.19	ppm		89
42) Hexachlorobutadiene	5.78	225	313402	40.57	ppm		99
43) 4-Chloro-3-methylphenol	6.11	107	727515	47.00	ppm		99
44) 2-Methylnaphthalene	6.20	141	1209678	39.73	ppm		95
45) 1-Methylnaphthalene	6.28	141	1317071	42.03	ppm		96
46) Dimethylnaphthalene	6.72	156	1329458	41.88	ppm		98
48) Hexachlorocyclopentadiene	6.33	237	701240	90.19	ppm		98
49) 2,4,6-Trichlorophenol	6.43	196	433367	44.58	ppm		98
50) 2,4,5-Trichlorophenol	6.48	196	452276	42.25	ppm		99
52) 2-Chloronaphthalene	6.60	162	1378736	41.64	ppm		95
53) Biphenyl	6.58	154	1805494	42.46	ppm		99
54) 2-Nitroaniline	6.69	65	504824	53.80	ppm		88
55) Dimethylphthalate	6.84	163	1664054	44.91	ppm		99
56) Acenaphthylene	6.97	152	2204437	41.07	ppm		99
57) 2,6-Dinitrotoluene	6.90	165	371206	46.35	ppm		81
58) 3-Nitroaniline	7.07	138	243142	24.25	ppm		79
59) Acenaphthene	7.14	153	1490187	44.21	ppm		91
60) 2,4-Dinitrophenol	7.18	184	439131	93.32	ppm	#	50
61) 4-Nitrophenol	7.29	109	259148	55.02	ppm		93
62) Dibenzofuran	7.32	168	1929400	41.94	ppm		96
63) 2,4-Dinitrotoluene	7.31	165	508730	46.87	ppm		80
64) 2,3,4,6-Tetrachlorophenol	7.46	232	353192	43.75	ppm		87
65) Diethylphthalate	7.58	149	1699812	46.42	ppm		98
66) Fluorene	7.71	166	1606529	45.38	ppm		99
67) 4-Chlorophenyl-phenylether	7.71	204	701680	44.98	ppm		95
68) 4-Nitroaniline	7.75	138	376038	37.14	ppm		95
70) 4,6-Dinitro-2-methylphenol	7.77	198	296139	50.68	ppm		81
71) n-Nitrosodiphenylamine	7.86	169	1107345	41.83	ppm		98
72) 1,2-Diphenylhydrazine	7.91	77	1975822	54.00	ppm		92
74) 4-Bromophenyl-phenylether	8.35	248	393517	44.22	ppm		87
75) Hexachlorobenzene	8.43	284	415336	48.90	ppm		94
76) Pentachlorophenol	8.73	266	272919	48.77	ppm		99
77) Phenanthrene	9.04	178	2291734	43.06	ppm		97
78) Anthracene	9.12	178	2315719	43.47	ppm		100
79) Carbazole	9.40	167	2091053	41.87	ppm		98
80) Di-n-butylphthalate	10.10	149	2884982	46.25	ppm		98
81) Fluoranthene	11.18	202	2388974	45.27	ppm		95
82) Octadecane	8.90	57	853489	39.41	ppm		89
84) Pyrene	11.63	202	2523289	41.70	ppm		95

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156640.D Vial: 9
Acq On : 29 Apr 2016 12:57 am Operator: juliusj
Sample : op93443-msd Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:44:39 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

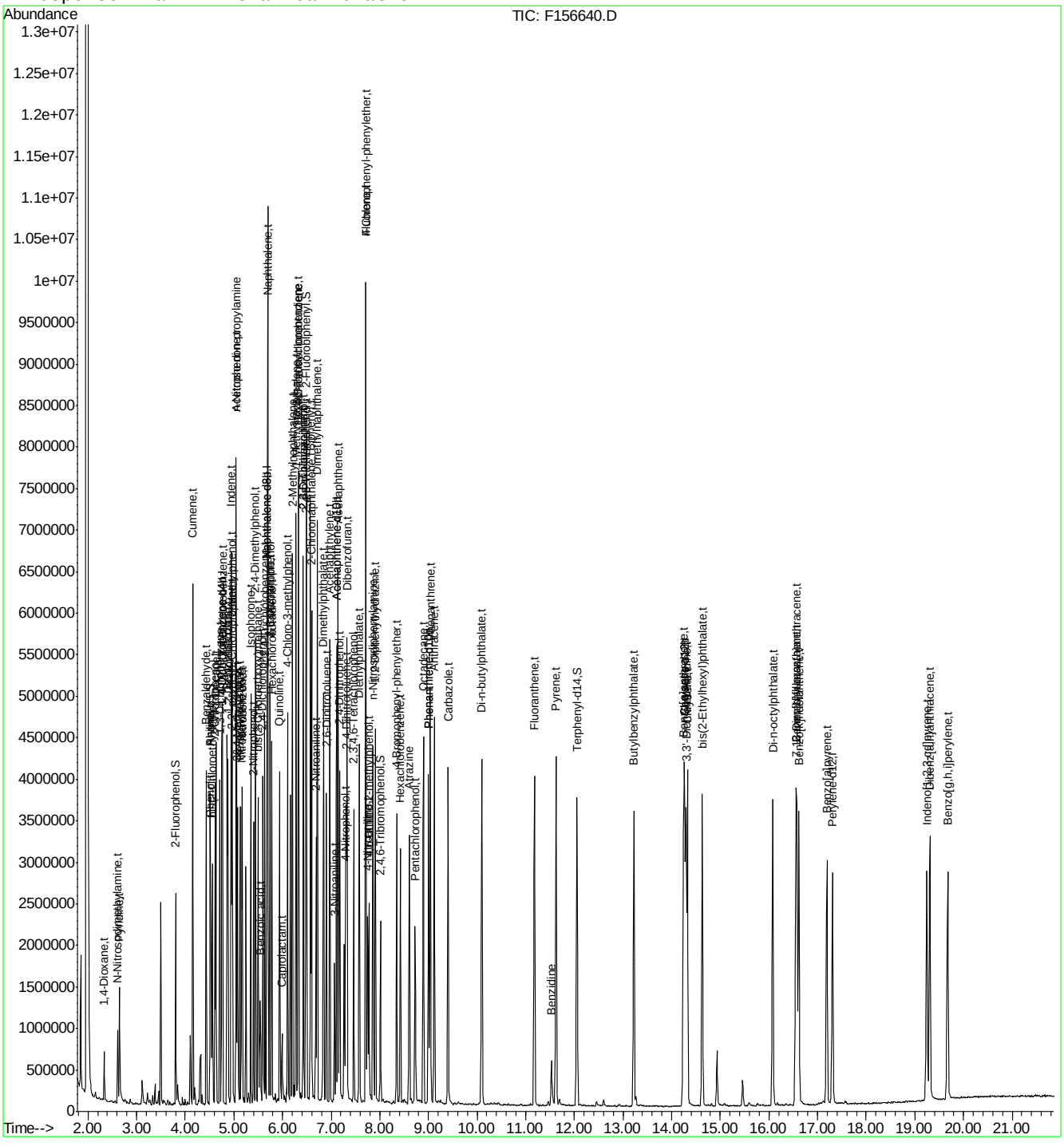
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	Butylbenzylphthalate	13.22	149	1266862	42.63	ppm	88
88)	Benzo[a]anthracene	14.25	228	2146427	41.54	ppm	99
89)	3,3'-Dichlorobenzidine	14.30	252	1045361	58.07	ppm	97
90)	Chrysene	14.32	228	2107951	41.04	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.63	149	1759693	42.73	ppm	96
93)	Di-n-octylphthalate	16.08	149	2974562	43.27	ppm	99
94)	Benzo[b]fluoranthene	16.56	252	2164299	44.63	ppm	97
95)	Benzo[k]fluoranthene	16.62	252	2110846	44.48	ppm	99
96)	Benzo[a]pyrene	17.19	252	1931696	43.52	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.25	276	1800594	43.96	ppm	95
99)	Dibenz[a,h]anthracene	19.31	278	1815312	45.81	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.58	256	937088	49.49	ppm	99
101)	Benzo[g,h,i]perylene	19.68	276	1878102	42.43	ppm	99
103)	Benzaldehyde	4.43	105	597880	43.80	ppm	98
107)	1,2,4,5-Tetrachlorobenzene	6.33	216	639843	40.14	ppm	97
109)	Atrazine	8.61	200	440044	49.49	ppm	99
111)	Benzidine	11.53	184	319492	10.78	ppm	95

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156640.D Vial: 9
Acq On : 29 Apr 2016 12:57 am Operator: juliusj
Sample : op93443-msd Inst : MSF
Misc : op93443,ef6595,500 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:45 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60969.D
Acq On : 29 Apr 2016 12:31 pm
Operator : ashleyd
Sample : op93443a-ms
Misc : op93443a,e3m2867,500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 16:52:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	227862	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	323403	4.00	ppm	-0.16
21) Fluoranthene-d10	17.700	212	542650	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	430320	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	869846	30.51	ppm	-0.09
Spiked Amount 50.000			Recovery = 61.02%			
4) Phenol-d5	6.012	99	1133393	24.03	ppm	-0.08
Spiked Amount 50.000			Recovery = 48.06%			
7) Nitrobenzene-d5	7.606	82	1497746	34.15	ppm	-0.11
Spiked Amount 50.000			Recovery = 68.30%			
15) 2-Fluorobiphenyl	11.176	172	3353643	37.74	ppm	-0.13
Spiked Amount 50.000			Recovery = 75.48%			
20) 2,4,6-Tribromophenol	14.033	330	424557	41.95	ppm	-0.14
Spiked Amount 50.000			Recovery = 83.90%			
28) Terphenyl-d14	18.519	244	3510519	44.60	ppm	-0.14
Spiked Amount 50.000			Recovery = 89.20%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	5411	0.46	ppm	91
5) Phenol	6.024	94	199353	3.92	ppm #	92
6) bis(2-Chloroethyl)ether	6.169	93	25232	0.66	ppm #	55
8) Nitrobenzene	7.625	77	46968	0.99	ppm #	43
9) Naphthalene	8.999	128	119172	0.94	ppm	93
10) Hexachlorobutadiene	9.301	225	13538	0.61	ppm	68
11) 2-Methylnaphthalene	10.365	141	46887	0.71	ppm #	51
13) Hexachlorocyclopentadiene	10.713	237	8893	0.51	ppm	92
16) Acenaphthylene	12.150	152	90891	0.81	ppm	96
17) Acenaphthene	12.505	153	68791	0.92	ppm	93
18) 4,6-dinitro-2-methylph...	13.712	198	82618	7.31	ppm	54
19) Fluorene	13.543	166	85202	0.95	ppm	99
22) Hexachlorobenzene	14.640	284	21630	0.84	ppm	99
23) Pentachlorophenol	15.057	266	113165	6.33	ppm	82
24) Phenanthrene	15.459	178	119686	0.90	ppm #	56
25) Anthracene	15.552	178	108317	0.92	ppm	88
26) Fluoranthene	17.731	202	134873	0.81	ppm	96
27) Pyrene	18.118	202	134039	0.86	ppm	92
29) Benzo[a]anthracene	20.219	228	110929	0.75	ppm	92
30) Chrysene	20.265	228	115177	0.81	ppm	90
32) Benzo[b]fluoranthene	21.872	252	108704	0.76	ppm	93
33) Benzo[k]fluoranthene	21.918	252	92574	0.70	ppm	95
34) Benzo[a]pyrene	22.336	252	93299	0.70	ppm	89
35) Indeno[1,2,3-cd]pyrene	23.805	276	91187	0.67	ppm	96
36) Dibenz[a,h]anthracene	23.843	278	71992	0.64	ppm	100
37) Benzo[g,h,i]perylene	24.182	276	77914	0.66	ppm	99

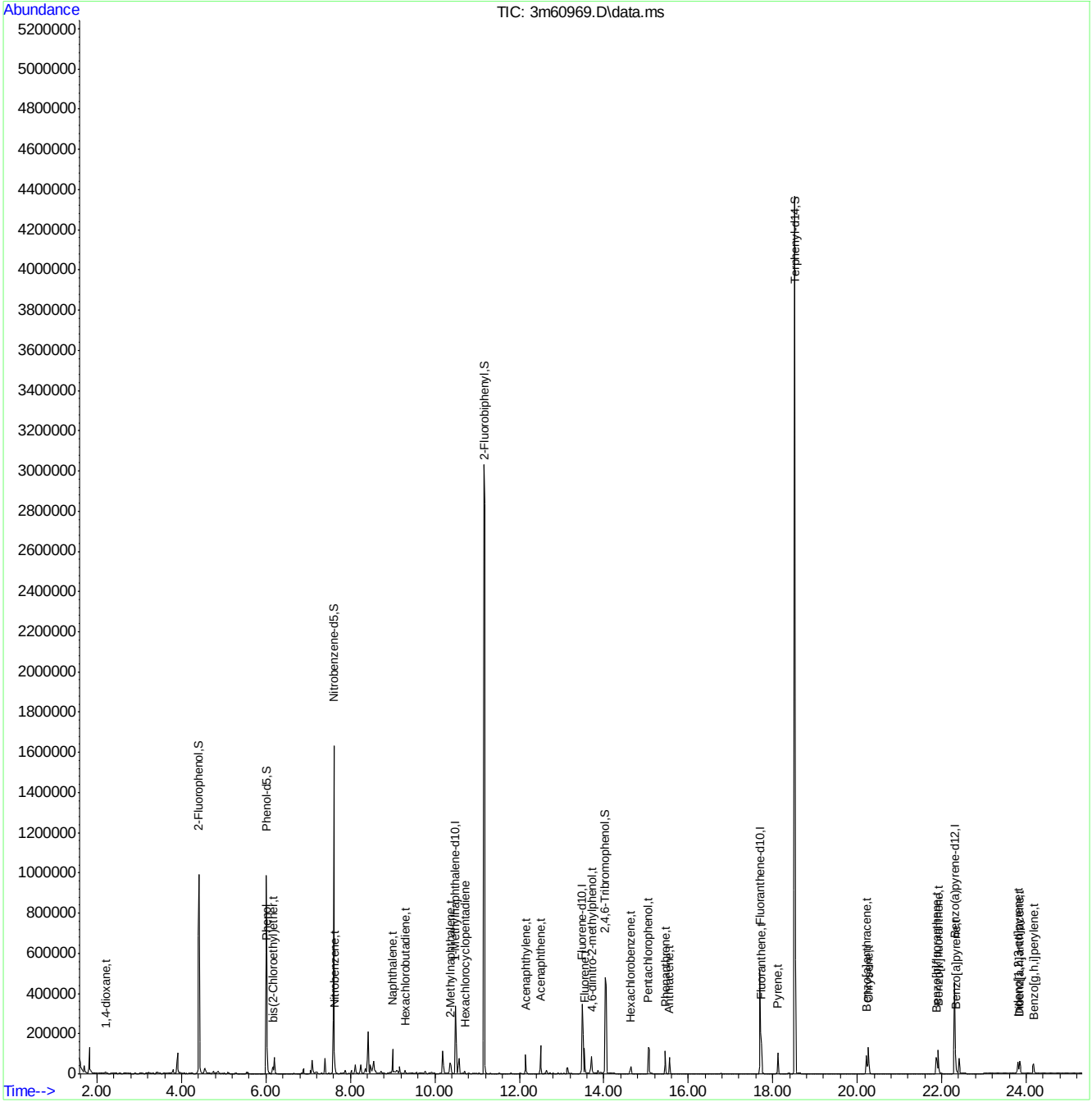
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60969.D
Acq On : 29 Apr 2016 12:31 pm
Operator : ashleyd
Sample : op93443a-ms
Misc : op93443a,e3m2867,500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 29 16:52:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60970.D
Acq On : 29 Apr 2016 1:03 pm
Operator : ashleyd
Sample : op93443a-msd
Misc : op93443a,e3m2867,500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 16:53:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	234441	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	339687	4.00	ppm	-0.16
21) Fluoranthene-d10	17.701	212	567642	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	457741	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.415	112	964349	32.88	ppm	-0.09
Spiked Amount 50.000			Recovery = 65.76%			
4) Phenol-d5	6.012	99	1210351	24.94	ppm	-0.08
Spiked Amount 50.000			Recovery = 49.88%			
7) Nitrobenzene-d5	7.606	82	1737900	38.51	ppm	-0.11
Spiked Amount 50.000			Recovery = 77.02%			
15) 2-Fluorobiphenyl	11.176	172	3679018	39.42	ppm	-0.13
Spiked Amount 50.000			Recovery = 78.84%			
20) 2,4,6-Tribromophenol	14.033	330	483435	45.47	ppm	-0.14
Spiked Amount 50.000			Recovery = 90.94%			
28) Terphenyl-d14	18.519	244	4131295	50.17	ppm	-0.14
Spiked Amount 50.000			Recovery = 100.34%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	6058	0.50	ppm	80
5) Phenol	6.024	94	161186	3.08	ppm #	79
6) bis(2-Chloroethyl)ether	6.169	93	28403	0.72	ppm #	54
8) Nitrobenzene	7.625	77	55236	1.13	ppm #	42
9) Naphthalene	8.999	128	135424	1.04	ppm	93
10) Hexachlorobutadiene	9.301	225	15152	0.67	ppm	67
11) 2-Methylnaphthalene	10.365	141	53696	0.79	ppm #	51
13) Hexachlorocyclopentadiene	10.714	237	10085	0.56	ppm	91
16) Acenaphthylene	12.150	152	99295	0.84	ppm	96
17) Acenaphthene	12.505	153	76433	0.97	ppm	91
18) 4,6-dinitro-2-methylph...	13.712	198	66536	5.83	ppm	62
19) Fluorene	13.543	166	94628	1.00	ppm	96
22) Hexachlorobenzene	14.640	284	24277	0.90	ppm	99
23) Pentachlorophenol	15.057	266	93538	5.04	ppm	83
24) Phenanthrene	15.459	178	132174	0.95	ppm #	56
25) Anthracene	15.552	178	118473	0.97	ppm	87
26) Fluoranthene	17.731	202	154907	0.89	ppm	96
27) Pyrene	18.118	202	152676	0.94	ppm	94
29) Benzo[a]anthracene	20.219	228	122767	0.79	ppm	91
30) Chrysene	20.265	228	128479	0.86	ppm	91
32) Benzo[b]fluoranthene	21.872	252	124294	0.82	ppm	95
33) Benzo[k]fluoranthene	21.919	252	100873	0.72	ppm	97
34) Benzo[a]pyrene	22.336	252	104488	0.74	ppm	88
35) Indeno[1,2,3-cd]pyrene	23.806	276	104314	0.72	ppm	95
36) Dibenz[a,h]anthracene	23.843	278	82398	0.69	ppm	100
37) Benzo[g,h,i]perylene	24.182	276	88505	0.71	ppm	99

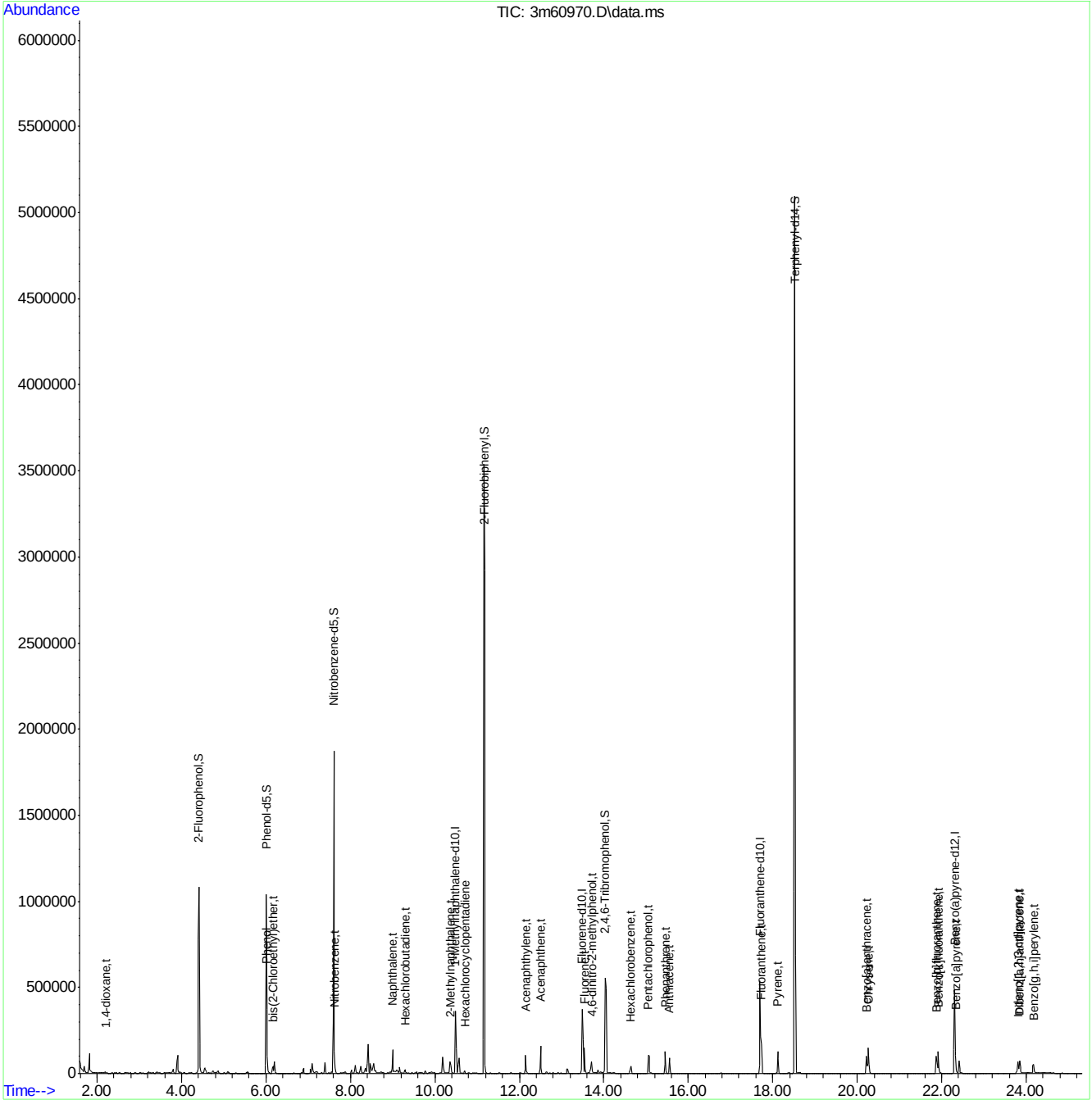
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60970.D
Acq On : 29 Apr 2016 1:03 pm
Operator : ashleyd
Sample : op93443a-msd
Misc : op93443a,e3m2867,500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 29 16:53:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

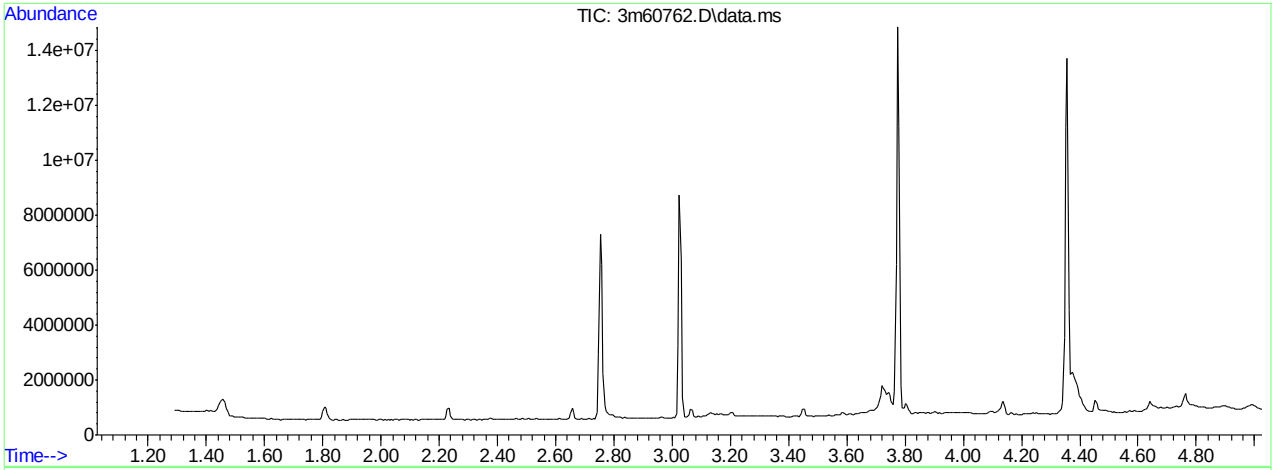


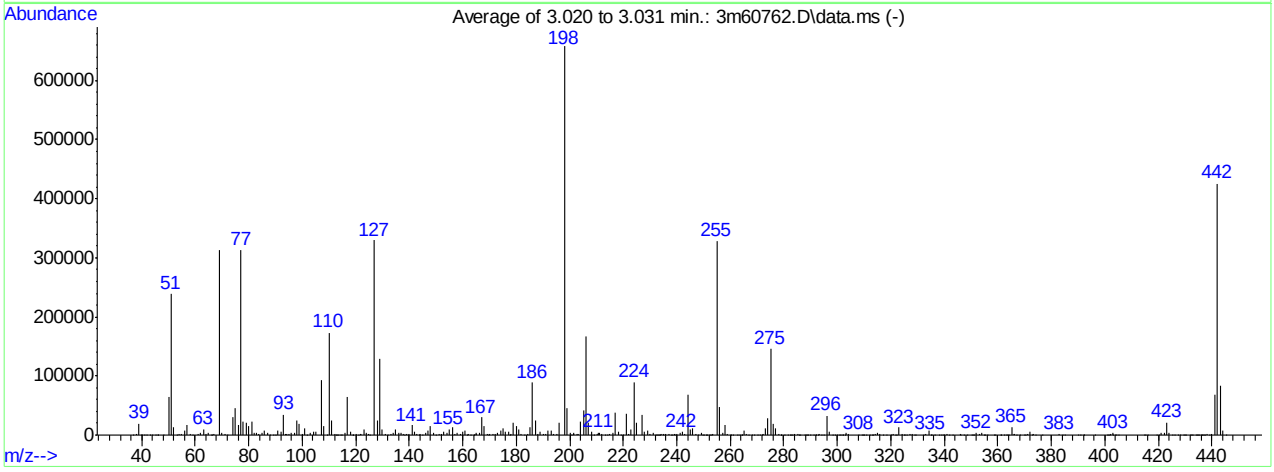
SGS ACCUTEST JC19214

DFTPP

Data File : C:\msdchem\1\DATA\E3M2855\3m60762.D Vial: 1
Acq On : 21 Apr 2016 1:31 pm Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op93052a,e3m2855 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 324, 325, 326; Background Corrected with Scan 320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	238296	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.6	313116	PASS
70	69	0.00	2	1.0	3204	PASS
127	198	40	60	50.1	329840	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	657712	PASS
199	198	5	9	6.9	45100	PASS
275	198	10	30	22.1	145467	PASS
365	198	1	100	2.2	14264	PASS
441	443	0.10	100	81.8	68134	PASS
442	198	40	100	64.7	425304	PASS
443	442	17	23	19.6	83298	PASS

3m60762.D DFTPP3M.M Fri Apr 22 08:16:22 2016 RPT1

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	661	46.20	436	58.95	251	71.05	1475
38.05	2794	48.00	244	61.00	2709	72.05	358
39.00	19760	50.00	65143	62.10	4250	74.05	29550
39.90	449	51.00	238296	63.00	10102	75.00	46243
40.00	755	52.00	12545	64.10	1997	76.10	17126
41.00	329	53.00	307	65.00	4739	77.05	313473
42.00	277	54.15	1115	65.95	419	78.00	22267
43.05	106	55.00	1105	66.20	319	79.00	21188
44.00	839	56.00	7453	66.95	1508	79.95	15917
45.10	137	57.00	17977	69.00	313116	81.00	21946
45.90	229	58.00	1593	70.05	3204	81.95	3804

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	3997	93.95	1295	104.05	6580	114.10	398
83.90	2325	94.20	1080	105.00	6653	114.80	426
85.10	3907	95.00	1155	107.00	92226	116.00	4552
85.95	7333	95.95	2921	108.00	15158	117.00	65517
87.05	3225	97.15	3059	109.10	399	117.95	5021
87.95	160	98.00	25203	110.00	173137	118.85	1004
89.00	451	99.00	19270	111.00	25260	119.10	235
90.05	395	100.00	1366	112.05	2622	120.05	1481
90.95	6840	100.95	10715	112.70	729	120.85	926
92.00	6037	101.90	978	113.00	737	121.85	2893
93.00	35134	102.95	4167	113.60	216	122.05	1962

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	8863	134.05	4029	143.80	49	154.05	4207
124.00	3789	134.95	9126	144.15	1336	154.95	9598
124.90	2681	136.00	4526	144.90	554	156.05	12971
125.20	659	137.05	4746	146.00	3191	157.05	2135
127.00	329840	137.80	1581	147.00	6974	158.00	2979
127.95	25688	138.05	8	147.95	15969	159.05	1815
129.00	128464	139.15	1213	149.00	3586	160.00	5213
129.95	10423	140.05	2181	149.90	649	160.90	6930
131.00	2043	141.00	16241	151.05	2905	161.80	620
131.90	739	142.05	4918	151.90	1498	162.10	1571
133.10	1078	142.95	2672	152.95	5232	162.90	286

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.00	491	171.95	2596	181.95	1754	193.00	6861
164.10	623	173.05	4093	182.90	780	194.05	2190
164.80	1232	174.05	6735	184.10	2113	195.05	1948
165.00	4676	175.05	10999	185.00	13065	196.00	21652
166.05	4746	176.05	4833	186.00	88408	198.00	657712
166.95	29813	176.95	6189	187.05	24010	199.00	45100
167.95	14663	177.70	742	188.10	2813	200.00	3024
169.05	2335	178.00	1490	188.90	5044	200.70	236
169.70	466	179.00	21463	190.05	1319	201.35	3553
170.15	1305	180.00	14698	191.00	2618	201.65	2514
171.10	1248	181.00	9205	191.95	7793	202.80	1702

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.00	2781	213.05	528	224.10	89368	233.80	461
204.10	23086	214.00	433	225.05	21868	234.10	1557
205.10	41149	215.05	1578	227.05	34358	234.80	391
206.05	167835	216.05	4006	228.00	4859	235.05	2665

207.00	21445	217.00	38342	229.00	6933	235.95	2072
208.00	6458	218.05	5162	229.85	1303	237.05	2533
209.00	896	219.20	990	231.00	3173	237.90	238
210.15	1189	220.00	429	231.90	223	238.15	279
210.75	4358	221.05	36080	232.30	136	238.95	1672
211.10	3392	221.80	1095	232.90	149	239.30	482
211.85	2397	223.00	9572	233.10	789	240.10	1273

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.05	3311	250.80	152	259.90	493	269.00	206
242.05	4890	251.15	707	260.20	97	270.05	831
243.10	2235	251.95	870	261.00	468	271.05	922
244.10	68677	252.40	139	262.60	86	271.70	207
245.05	9760	252.90	981	263.25	515	272.10	1838
246.00	12142	253.40	1728	264.10	501	273.05	11001
247.00	2344	255.05	329205	264.30	560	274.05	29108
248.00	837	256.00	47298	265.00	7222	275.10	145467
249.05	3015	257.15	4289	265.90	1481	276.05	18900
249.80	449	258.00	17582	266.75	355	277.00	11300
250.25	600	259.00	2516	268.20	147	278.00	1854

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.80	205	287.70	119	294.70	95	303.10	3964
279.15	477	288.15	310	296.05	32985	304.05	1309
280.10	279	288.60	87	297.00	5136	307.90	846
281.60	120	289.15	281	298.10	167	309.00	398
282.10	626	289.95	519	298.90	166	309.70	112
282.90	419	291.10	296	300.00	85	310.15	371
283.10	836	291.80	318	300.90	148	310.95	354
284.15	1540	292.10	662	301.15	590	312.00	87
285.15	2843	292.80	196	301.80	536	312.80	156
285.80	310	293.05	2426	302.10	353	313.10	231
286.10	133	294.10	917	302.80	384	313.95	1898

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
315.00	3718	325.20	137	336.25	305	348.30	141
316.00	2484	325.95	441	338.10	80	350.05	338
317.05	541	327.05	2247	339.00	94	350.60	76
318.20	109	328.00	1248	339.70	149	351.10	136
320.15	285	328.80	179	339.90	100	352.05	3729
321.00	1507	329.20	147	341.00	1301	353.10	2441
321.70	413	332.05	947	341.95	432	354.00	4692
322.00	251	332.95	1265	343.20	134	354.95	265
323.10	12425	334.10	8059	345.90	234	355.20	159
324.15	2124	334.90	772	346.05	2044	356.15	415
324.90	281	335.10	980	347.05	266	358.40	195

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
359.10	253	368.00	93	385.05	288	403.05	3094
360.90	94	369.90	367	390.05	558	403.80	336
361.25	176	370.40	117	391.00	594	404.05	985
362.50	298	371.05	1415	391.90	84	405.05	371
363.10	278	372.10	6694	392.20	500	414.80	78
363.40	159	372.90	577	396.30	97	415.10	95
364.00	309	373.10	1038	400.75	279	416.00	104
365.05	14264	374.00	194	401.20	249	419.25	304
365.90	1395	376.70	189	401.90	271	420.30	329
366.10	1077	382.95	1487	402.05	2235	421.05	4050
366.90	270	384.00	498	402.80	202	422.15	3505

Average of 3.020 to 3.031 min.: 3m60762.D\data.ms

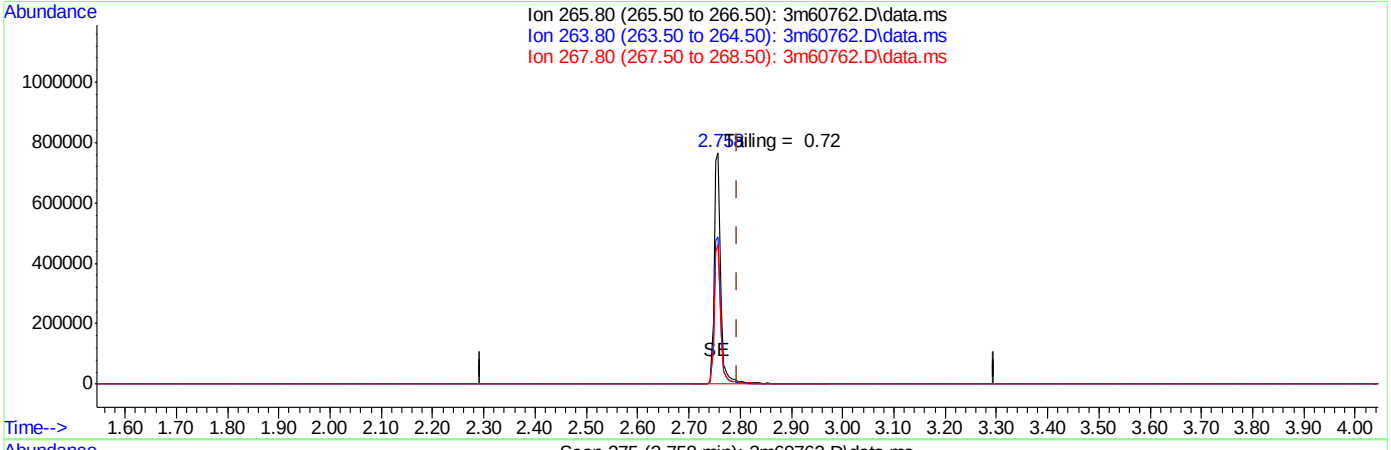
dftpp
Modified:subtracted

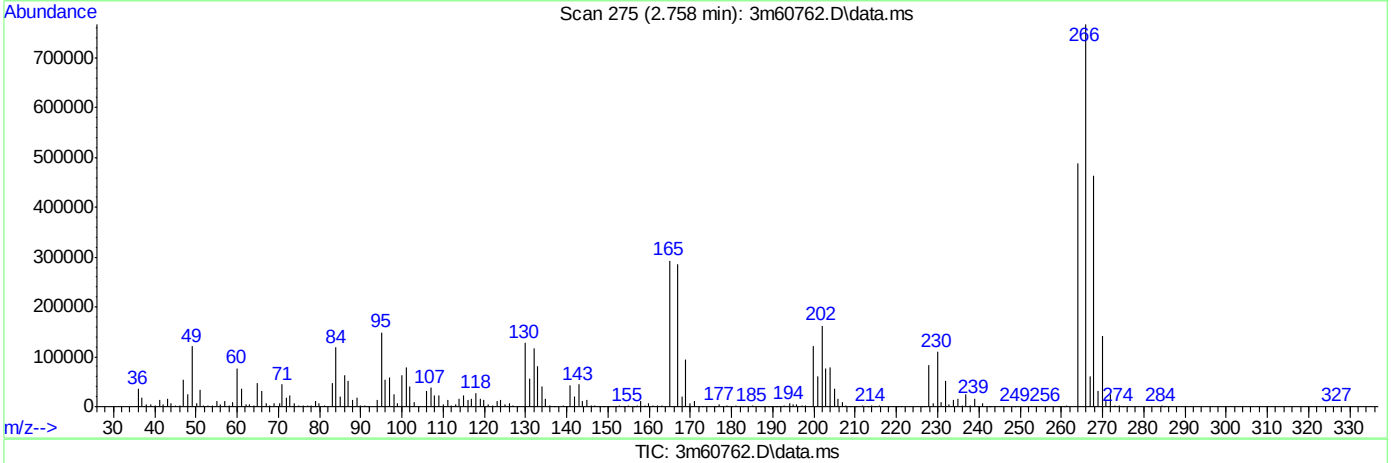
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	21736	432.90	494	438.80	912		
424.10	4461	433.85	400	439.90	2031		
425.00	512	434.50	189	441.10	68134		
426.10	183	434.80	226	442.10	425304		
427.20	203	435.40	731	443.10	83298		
428.30	259	435.90	455	444.10	7637		
429.50	82	436.25	476	445.10	306		
429.70	297	436.60	319				
430.25	389	436.95	928				
431.75	392	437.50	435				
432.50	347	438.30	1141				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(1) Pentachlorophenol (t)

2.758min (-0.037) 190.28ppb

response 701808

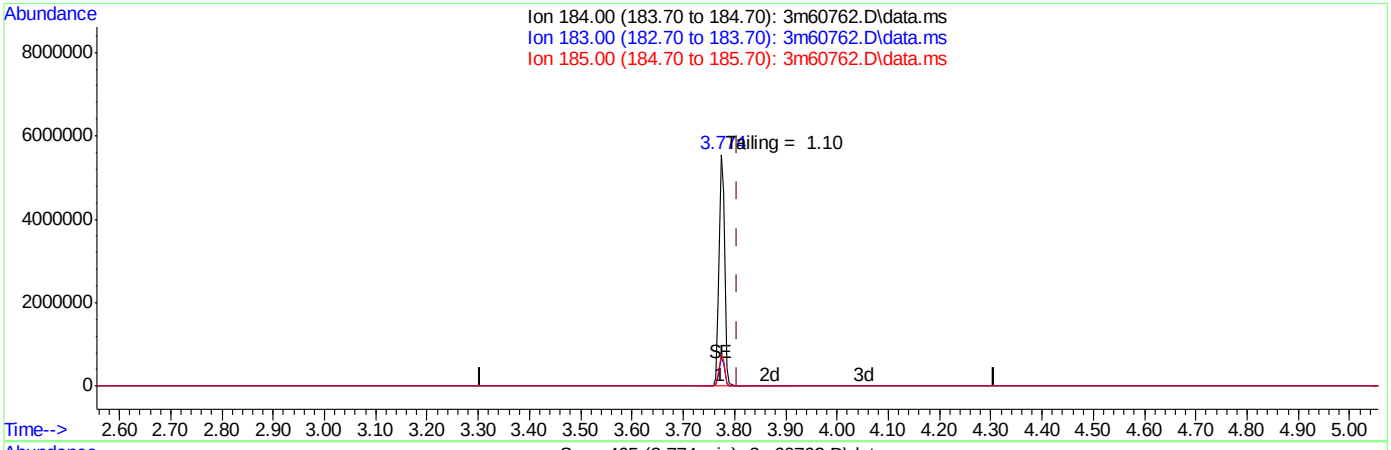
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	63.64
267.80	64.10	60.34
0.00	0.00	0.00

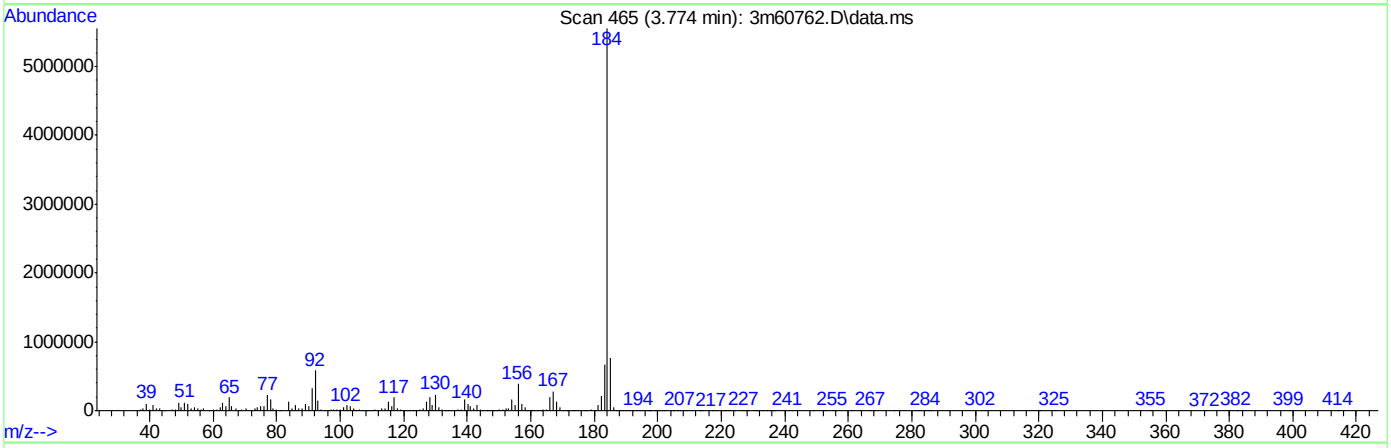
SGS ACCUTEST JC19214

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On : 21 Apr 2016 1:31 pm
Operator : linseyk
Sample : dftpp
Misc : op93052a,e3m2855
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m60762.D\data.ms

(2) Benzidine (t)

3.774min (-0.032) 229.17ppb

response 4170192

Ion	Exp%	Act%
184.00	100	100
183.00	11.50	12.07
185.00	14.40	13.67
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60762.D
Acq On    : 21 Apr 2016   1:31 pm
Operator  : linseyk
Sample    : dftpp
Misc      : op93052a,e3m2855
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Apr 21 13:36:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title  : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration
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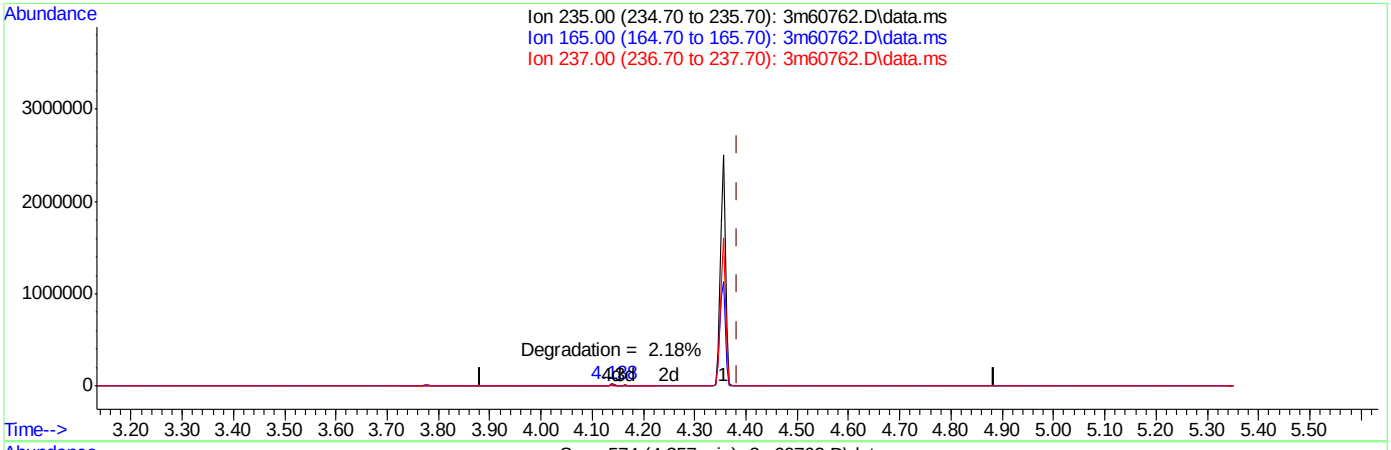
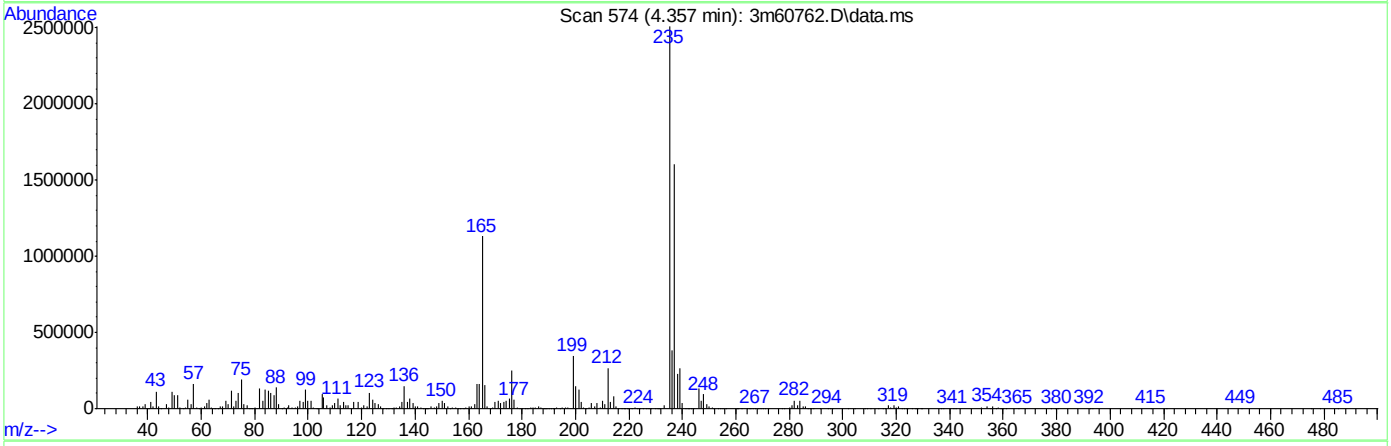




TIC: 3m60762.D\data.ms

(3) PP-DDT (t)

4.357min (-0.027) 229.70ppb

response 1710972

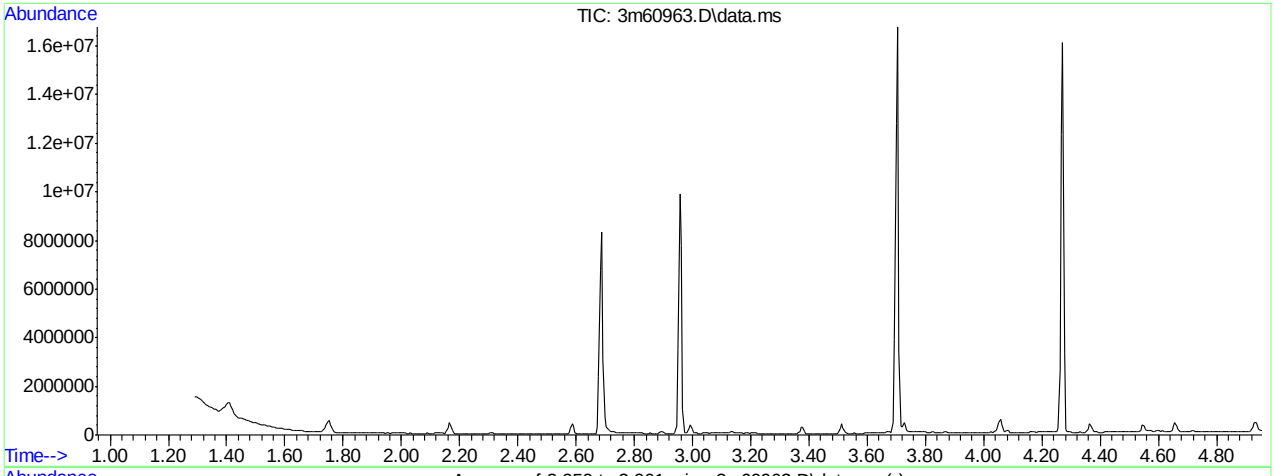
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.45#
237.00	0.00	63.48#
0.00	0.00	0.00

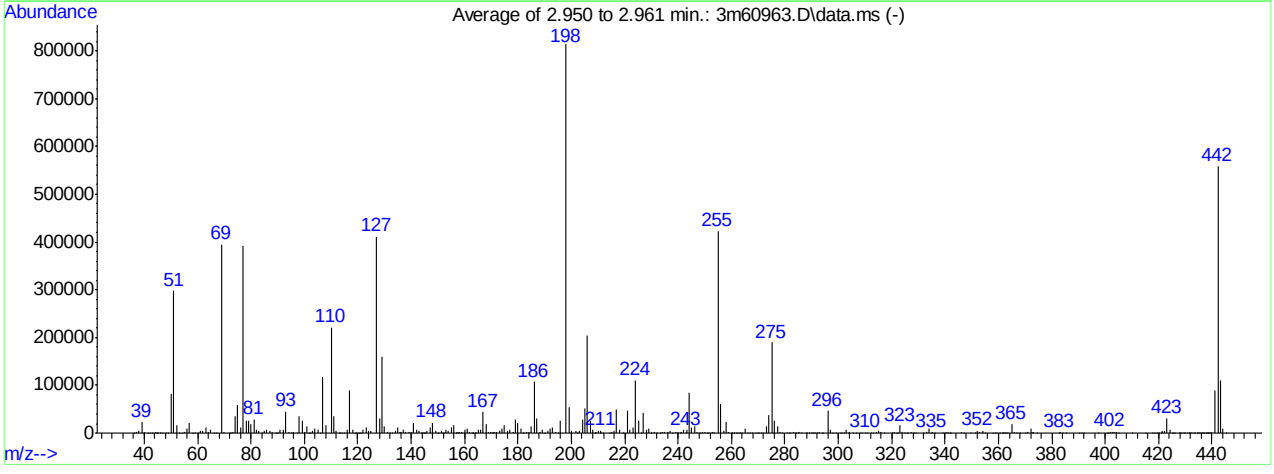
SGS ACCUTEST JC19214

DFTPP

Data File : C:\msdchem\1\DATA\E3M2867\3m60963.D Vial: 1
Acq On : 29 Apr 2016 9:23 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op93271a,e3m2867 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 311, 312, 313; Background Corrected with Scan 306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.5	296991	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	394563	PASS
70	69	0.00	2	0.5	2118	PASS
127	198	40	60	50.5	410859	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	813355	PASS
199	198	5	9	6.7	54101	PASS
275	198	10	30	23.3	189381	PASS
365	198	1	100	2.4	19331	PASS
441	443	0.10	100	80.9	89640	PASS
442	198	40	100	68.7	559147	PASS
443	442	17	23	19.8	110843	PASS

3m60963.D DFTPP3M.M Fri Apr 29 15:22:27 2016 RPT1

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	204	45.00	48	56.05	9225	67.05	30
37.00	1783	46.00	265	56.95	22323	69.00	394563
38.10	5370	46.95	250	58.00	1117	69.95	2118
39.05	22698	47.80	480	58.80	325	72.00	156
40.05	1604	49.00	765	60.00	207	72.25	605
41.10	773	50.05	81584	61.00	4468	73.05	3526
42.20	238	51.00	296991	62.05	4763	73.95	34473
43.00	909	52.05	16235	63.05	12455	75.00	59277
44.05	1787	53.00	873	64.05	1908	76.20	10827
44.60	96	54.20	95	65.00	7068	77.05	392597
44.80	279	55.00	1782	65.90	472	78.05	26688

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	25750	89.75	219	100.00	2652	111.00	34281
80.00	19643	90.10	102	101.00	14632	111.90	4030
81.00	28583	90.95	6095	101.80	530	112.90	386
81.95	7291	92.05	7059	102.10	514	113.20	1220
83.00	5844	93.00	45066	103.00	5478	113.85	720
83.95	516	94.00	3115	103.95	9862	114.90	499
85.05	5739	95.00	655	104.95	7822	116.00	6988
85.95	7153	96.05	1645	106.00	904	117.00	88379
86.95	3706	97.10	390	107.00	117714	118.00	6227
87.95	1660	98.00	35310	108.00	16876	119.00	549
89.10	1185	99.05	25504	110.00	220551	119.20	526

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.10	1127	130.95	2256	141.00	20528	149.05	4561
120.80	150	132.00	1154	142.05	6054	150.00	991
121.00	668	133.00	918	143.05	4045	150.20	768
121.95	8002	134.00	5075	143.90	986	151.10	3622
123.00	12000	134.95	12317	144.20	393	151.90	1032
123.90	4913	135.90	2378	144.70	288	152.30	360
125.05	5434	136.10	2588	145.00	1003	153.00	6425
127.00	410859	137.00	6330	145.20	278	153.95	4589
128.05	31656	138.00	1640	146.05	3847	155.05	11049
129.00	160504	138.95	1321	147.05	10735	156.05	15356
129.95	13256	140.00	2428	147.95	21549	156.90	614

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.05	3606	163.80	431	171.95	3262	182.10	590
157.80	876	164.15	685	173.05	4480	183.20	1379
157.95	3351	165.00	7001	174.05	8779	184.05	2676
158.90	351	166.10	6118	175.00	15856	185.05	14679
159.05	2184	166.95	43609	176.05	5194	186.05	107581
159.95	6204	168.00	17843	176.95	7316	187.05	31629
161.00	10127	168.95	3428	178.10	2043	188.05	3297
162.00	2436	169.85	1407	179.00	27837	189.00	6298
162.80	218	170.15	744	180.00	20540	190.00	1080
162.90	413	170.80	620	181.00	9569	191.05	3846
163.00	305	171.05	1497	181.90	1096	192.00	9428

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.00	11105	205.10	52323	214.10	417	226.00	610
194.00	3314	206.10	203773	214.95	2328	227.00	42120
194.80	898	207.10	26063	216.05	5654	228.05	6421
196.00	26854	208.00	6748	217.00	49480	229.00	9994

198.00	813355	208.90	855	218.00	6207	229.90	319
199.00	54101	209.20	1831	219.15	1119	230.00	849
200.05	3872	210.05	3958	221.00	46584	231.05	3438
201.60	4887	210.80	964	221.80	6255	232.00	858
202.20	167	210.90	3422	223.00	12645	233.00	1243
203.00	5929	211.05	5131	224.10	110717	234.00	3056
204.10	28997	211.80	792	225.10	26346	235.05	3320

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.95	2478	245.10	12222	253.30	486	262.00	95
237.00	3710	246.00	14552	255.00	422421	262.80	200
237.90	528	247.00	3567	256.05	62128	263.15	502
239.00	1869	247.80	512	257.10	3991	263.90	552
240.00	1876	248.10	600	258.00	23371	265.05	9066
240.80	443	249.10	3174	259.00	3151	265.95	911
241.00	2517	249.90	1395	259.90	396	266.90	218
242.05	6393	250.95	831	260.15	477	267.70	124
242.80	763	251.45	557	260.90	497	268.80	164
243.10	6999	252.10	560	261.10	372	269.55	347
244.10	84019	252.95	2559	261.70	74	270.05	613

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.05	1149	282.05	725	290.20	641	300.80	105
272.00	763	283.05	2226	290.70	94	301.05	530
273.05	14562	283.80	971	291.15	309	302.00	1107
274.10	38203	284.10	195	292.15	892	303.10	6152
275.10	189381	284.70	284	292.95	3611	303.90	160
276.10	25675	285.05	2305	293.90	82	304.05	1585
277.10	14352	285.95	720	294.10	1059	305.30	142
277.95	2335	287.90	196	296.05	46469	306.80	78
279.10	447	288.15	298	297.10	6838	308.00	717
280.70	127	288.90	755	298.00	119	308.95	452
281.30	621	289.90	89	299.20	101	310.10	792

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
311.00	128	323.10	15583	334.05	9709	347.15	690
312.15	265	324.05	3304	334.80	286	349.60	102
312.80	186	324.90	199	335.05	2216	351.15	750
314.10	2202	325.40	141	336.00	524	352.05	4881
315.05	4943	326.15	307	338.95	307	353.05	3242
316.05	3406	327.05	2866	339.90	370	353.80	184
317.00	460	327.90	766	340.85	1437	354.10	5059
320.10	190	328.10	642	341.20	194	355.15	1007
321.10	1526	329.10	460	341.80	154	357.80	116
321.90	123	332.00	1166	342.10	334	358.55	164
322.15	1167	333.05	2052	346.00	3441	359.10	462

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.60	153	370.15	631	391.20	785	414.95	292
361.10	193	371.00	1405	392.10	532	417.50	105
361.60	139	372.15	8668	397.20	104	418.45	233
362.30	78	372.80	136	400.90	323	419.10	181
362.65	241	373.05	2244	401.20	501	419.50	147
362.90	155	374.20	192	402.00	3365	419.90	212
363.50	763	382.80	123	403.00	2346	420.80	288
365.00	19331	383.10	1754	403.20	2150	421.15	3767
365.90	3448	383.90	496	404.05	1760	422.10	5181
366.80	146	385.10	83	404.95	383	423.10	30586
368.00	82	390.10	967	409.90	380	424.10	6764

Average of 2.950 to 2.961 min.: 3m60963.D\data.ms

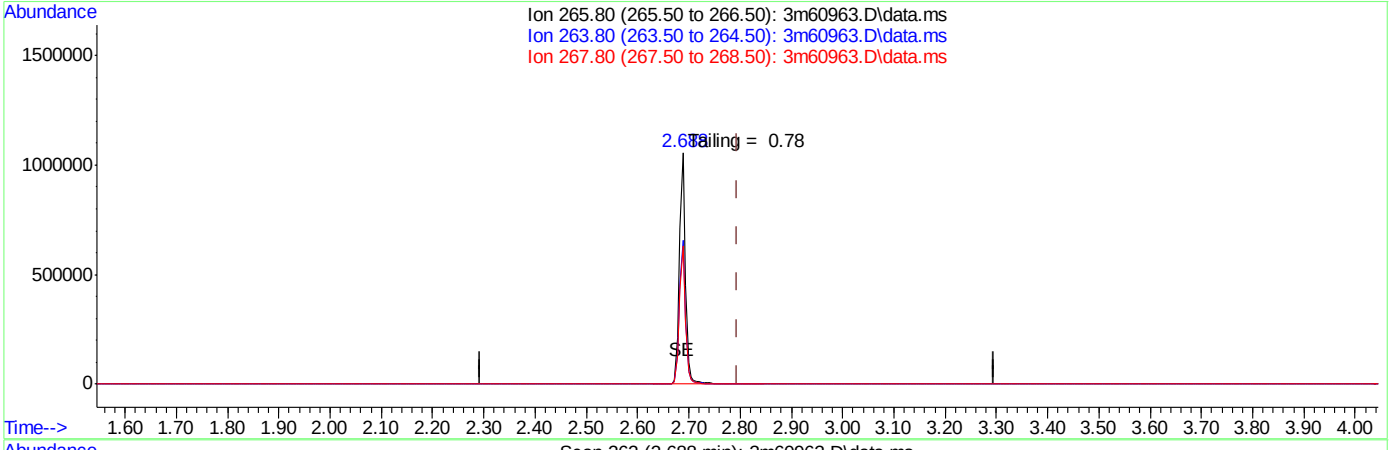
dftpp
Modified:subtracted

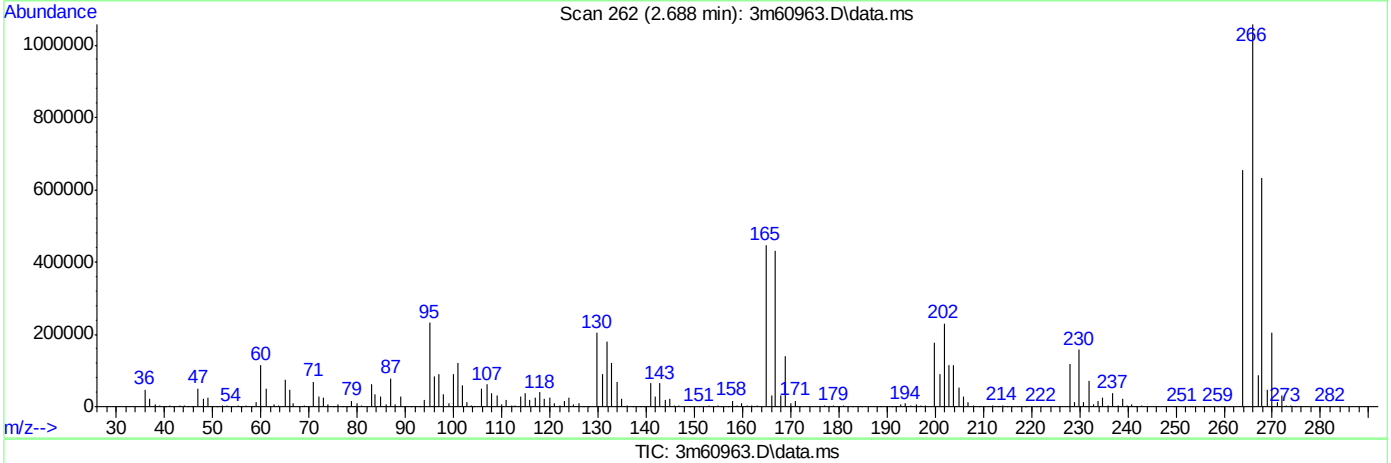
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
424.95	803	431.80	275	437.00	744	443.10	110843
425.70	132	432.20	535	437.50	1138	444.10	9963
426.00	98	433.05	655	437.90	773	445.05	810
427.60	197	433.50	121	438.10	980		
428.00	283	434.20	340	438.40	80		
428.60	90	434.75	789	438.60	723		
429.10	124	435.30	425	438.90	1176		
429.80	195	435.70	396	439.20	890		
430.40	358	436.10	417	439.65	3422		
431.20	74	436.40	79	441.10	89640		
431.40	115	436.70	982	442.10	559147		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60963.D
Acq On : 29 Apr 2016 9:23 am
Operator : ashleyd
Sample : dftpp
Misc : op93271a,e3m2867
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 09:27:52 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: 3m60963.D\data.ms

(1) Pentachlorophenol (t)

2.688min (-0.107) 231.85ppb

response 855135

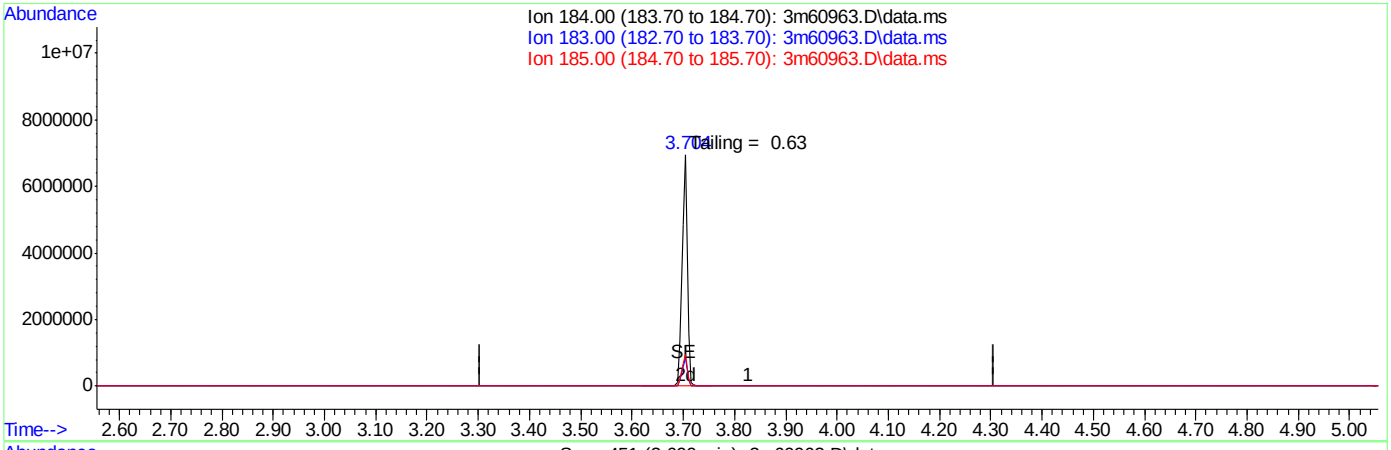
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	61.99
267.80	64.10	59.89
0.00	0.00	0.00

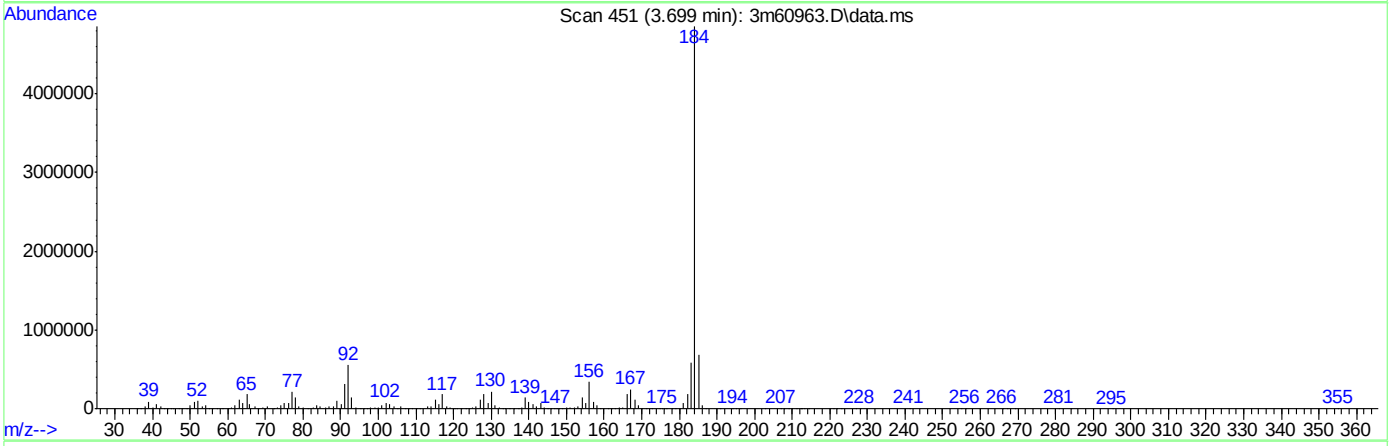
SGS ACCUTEST JC19214

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60963.D
Acq On : 29 Apr 2016 9:23 am
Operator : ashleyd
Sample : dftpp
Misc : op93271a,e3m2867
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 09:27:52 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: 3m60963.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

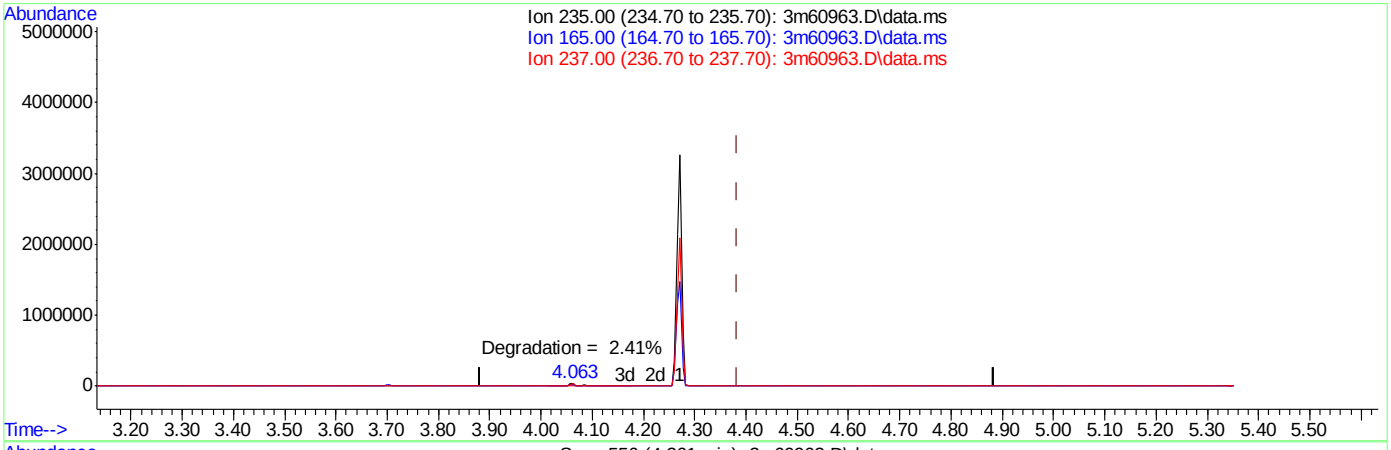
response 0

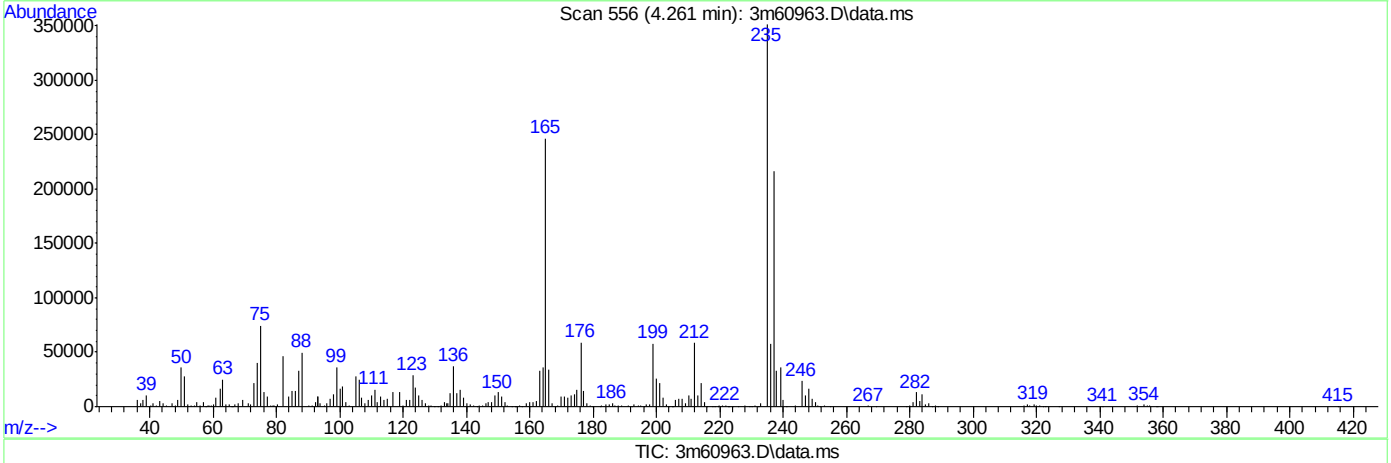
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60963.D
Acq On : 29 Apr 2016 9:23 am
Operator : ashleyd
Sample : dftpp
Misc : op93271a,e3m2867
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 29 09:27:52 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: 3m60963.D\data.ms

(3) PP-DDT (t)

4.271min (-0.112) 282.50ppb

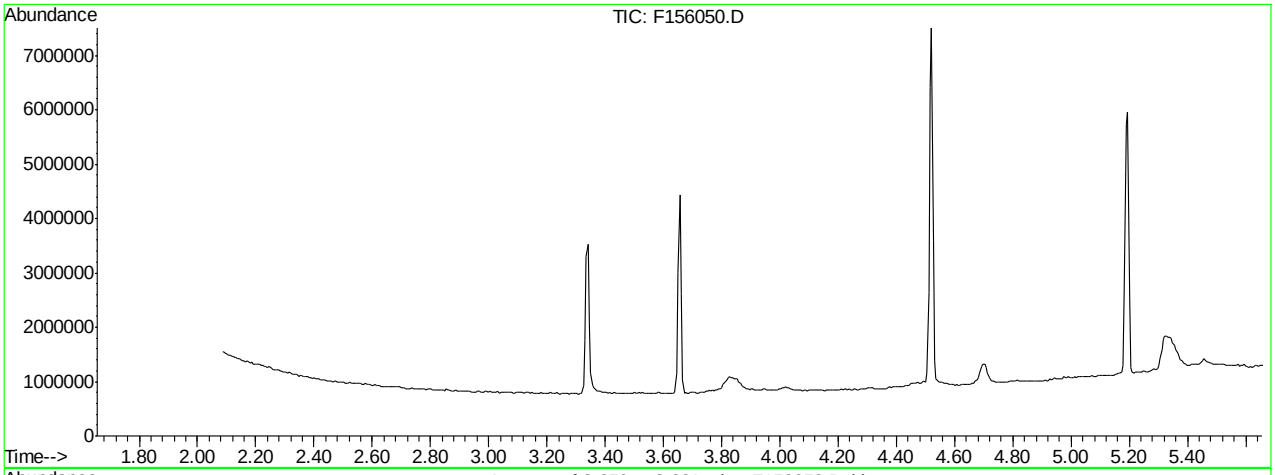
response 2104271

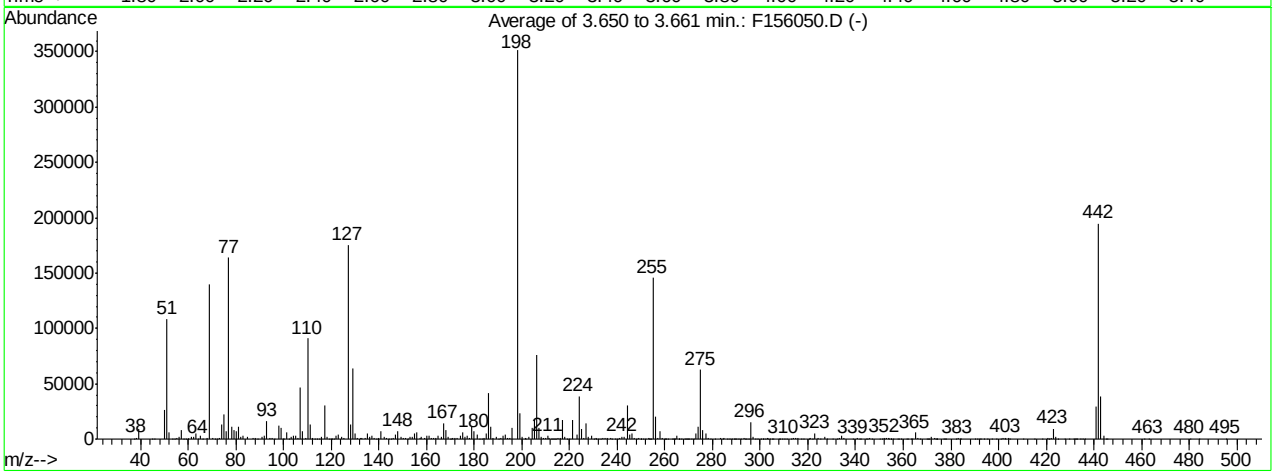
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	48.44#
237.00	0.00	63.80#
0.00	0.00	0.00

SGS ACCUTEST JC19214

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.9	108584	PASS
68	69	0.00	2	0.4	596	PASS
69	198	0.00	100	39.9	140032	PASS
70	69	0.00	2	0.5	642	PASS
127	198	40	60	50.0	175460	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	351082	PASS
199	198	5	9	6.6	23024	PASS
275	198	10	30	17.8	62466	PASS
365	198	1	100	1.6	5730	PASS
441	443	0.10	100	76.5	29498	PASS
442	198	40	100	55.5	194704	PASS
443	442	17	23	19.8	38575	PASS

F156050.D DFTPPF.M Tue Apr 05 08:58:18 2016 RT1

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	121	56.10	2199	66.00	127	78.10	11499
38.10	1475	57.10	8176	68.05	596	79.05	8614
39.10	9324	58.10	323	69.00	140032	80.05	7248
45.00	511	59.05	46	70.05	642	81.05	10934
45.90	115	60.00	329	71.10	195	82.00	2181
50.10	26475	60.10	39	72.00	349	83.00	3331
51.10	108584	61.10	1880	73.05	1066	85.05	2334
52.05	5725	62.05	1771	74.10	12924	87.00	1216
53.10	215	63.05	4830	75.05	21814	88.00	1338
54.10	62	64.05	543	76.10	7484	89.05	289
55.10	911	65.10	2744	77.05	163988	91.00	2470

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.05	2633	103.00	1713	113.85	350	124.10	1768
93.00	16334	104.05	3481	114.90	344	125.05	1397
94.10	1243	105.00	3203	115.95	2130	127.00	175460
95.10	687	106.10	1218	117.05	30135	128.00	12823
96.05	297	107.05	46722	118.00	2399	129.00	64327
98.00	11699	108.05	6997	119.00	151	129.95	5600
99.00	10166	109.10	753	120.00	387	131.05	599
99.90	353	110.00	90877	120.20	319	132.10	620
100.10	429	111.05	13190	121.15	409	133.00	595
101.05	5906	112.05	1333	122.00	2582	134.00	1539
102.00	451	113.00	458	123.00	3857	135.00	4877

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	1744	147.05	4585	157.95	1596	169.00	1573
137.10	2951	147.95	7382	159.00	1240	170.10	239
138.00	646	149.05	1699	160.05	2858	170.30	64
138.90	204	150.00	628	161.00	2965	170.95	1211
140.05	843	151.05	1260	162.00	774	172.00	1359
141.00	6969	151.95	410	163.00	610	173.00	1278
142.00	2410	153.00	1882	164.00	741	174.05	3573
143.00	1540	154.05	1929	164.95	2736	175.05	5852
144.05	466	155.10	4621	166.00	2181	176.05	2477
145.00	528	156.05	6490	167.00	14623	177.00	2801
146.05	1548	157.10	1173	168.05	8099	177.95	1127

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	11119	190.00	253	201.70	512	212.10	470
180.00	7086	191.05	899	203.00	1704	212.80	113
181.05	4124	192.00	3434	204.10	10276	213.10	360
182.00	455	193.05	3871	205.05	17348	213.70	51
183.05	461	194.05	910	206.10	75549	214.15	268
184.05	845	195.10	766	207.10	10008	214.90	577
185.05	5401	196.00	10568	208.05	1885	216.00	1141
186.10	41858	198.00	351082	209.00	601	217.00	17682
187.05	11420	199.00	23024	210.10	779	218.05	2187
188.05	931	199.95	1705	210.95	2624	219.00	209
189.05	1961	201.50	1343	211.55	1122	220.00	120

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	16981	232.15	291	243.05	2187	253.00	879
223.00	4309	233.15	393	244.10	30309	253.25	26
224.00	38517	234.00	545	245.05	4332	253.80	466
225.10	9646	235.05	1129	246.00	4946	254.00	316

226.00	1104	236.00	714	247.05	1138	254.95	145383
227.00	14705	237.05	1154	248.00	436	256.00	20745
227.95	1957	237.80	56	248.95	897	256.95	1371
229.00	3117	239.05	301	249.90	236	258.00	7130
230.00	453	239.90	483	250.10	183	259.05	928
230.90	209	241.00	854	251.10	353	259.70	65
231.05	883	242.10	2069	251.90	364	260.05	182

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
260.45	109	268.95	145	277.95	750	290.05	320
261.05	362	269.40	73	279.10	383	291.00	56
263.10	196	269.70	11	281.05	157	291.90	94
263.75	135	270.00	200	283.10	590	293.00	1314
264.00	199	271.00	363	284.10	413	293.90	81
264.20	127	272.00	387	284.95	670	294.10	199
264.95	2896	273.00	4768	286.25	243	294.90	201
265.70	276	273.95	11030	287.10	176	296.00	15656
266.00	166	275.00	62466	288.10	57	297.05	2264
267.10	268	276.00	8219	289.10	71	298.00	101
268.20	186	277.00	4810	289.25	277	298.70	52

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.10	165	309.10	264	322.00	194	338.90	94
301.00	186	310.10	323	323.00	5205	340.95	626
301.20	67	311.00	66	324.05	1075	341.80	104
302.05	269	313.20	206	325.10	92	342.10	77
302.90	452	314.05	642	327.00	1660	344.30	67
303.05	1367	315.00	1345	328.00	316	344.80	55
303.90	401	315.95	1017	330.20	64	345.95	1123
304.80	118	317.00	123	332.05	295	346.95	337
305.30	72	318.10	97	333.00	554	350.30	57
307.90	97	320.30	55	334.00	3443	351.00	53
308.10	100	321.00	739	335.00	659	351.90	190

Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
352.10	1136	361.80	50	373.70	51	390.95	261
353.00	850	363.20	93	374.10	93	392.00	63
353.90	238	363.80	64	374.30	83	392.30	58
354.05	1167	365.00	5730	376.90	190	393.90	123
354.90	54	366.00	971	377.50	52	395.10	58
355.05	273	367.05	161	378.10	53	397.10	51
356.00	53	370.00	168	382.10	54	399.10	78
357.60	67	370.30	97	383.00	761	400.95	208
357.90	60	370.75	263	383.85	127	401.95	995
358.90	65	372.00	1944	384.10	53	402.80	239
361.20	167	373.00	674	390.05	446	403.00	1403

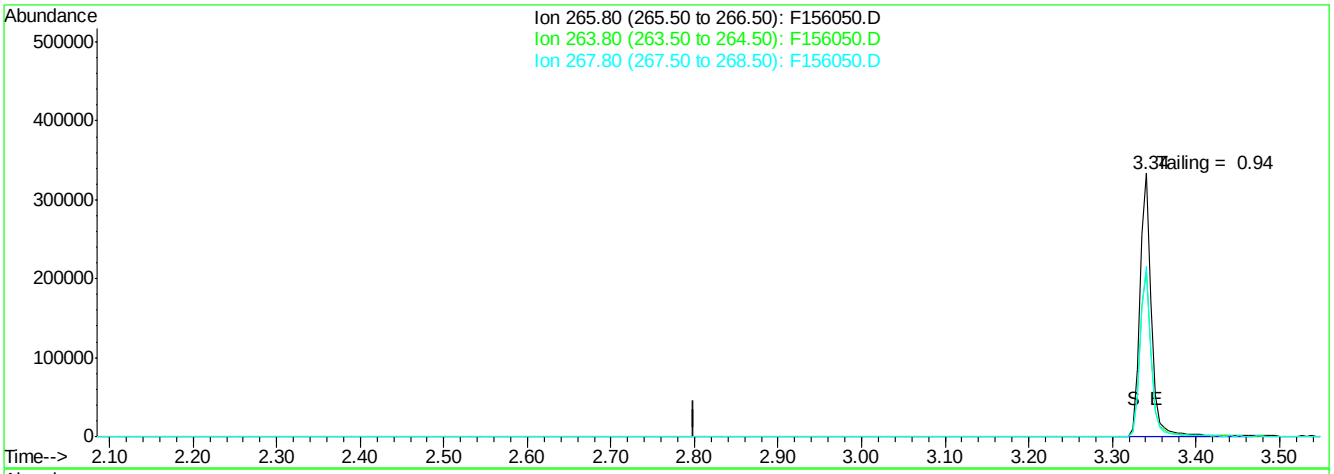
Average of 3.650 to 3.661 min.: F156050.D
dftpp
Modified:subtracted

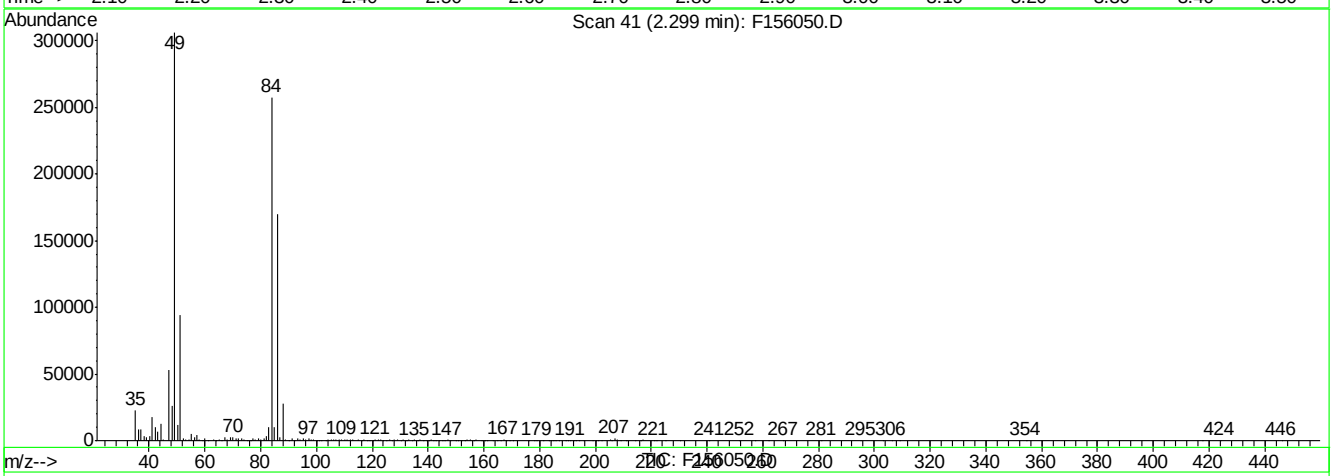
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.00	584	427.70	83	443.00	38575		
404.80	65	429.40	79	444.05	3498		
410.40	50	431.40	71	445.05	222		
415.10	112	432.10	134	445.50	51		
418.40	66	432.50	63	461.20	56		
420.90	861	432.90	122	463.00	83		
421.10	526	434.30	156	480.40	92		
421.95	1059	435.20	63	484.20	64		
423.00	9553	436.00	65	495.30	60		
424.00	2146	441.00	29498				
425.05	126	442.00	194704				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:00 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

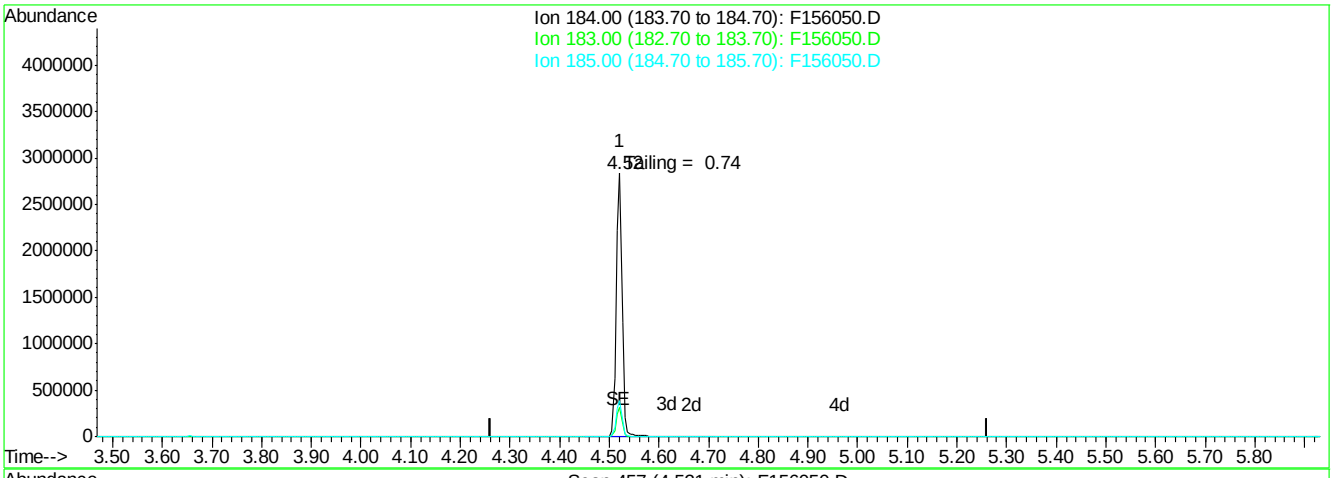
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

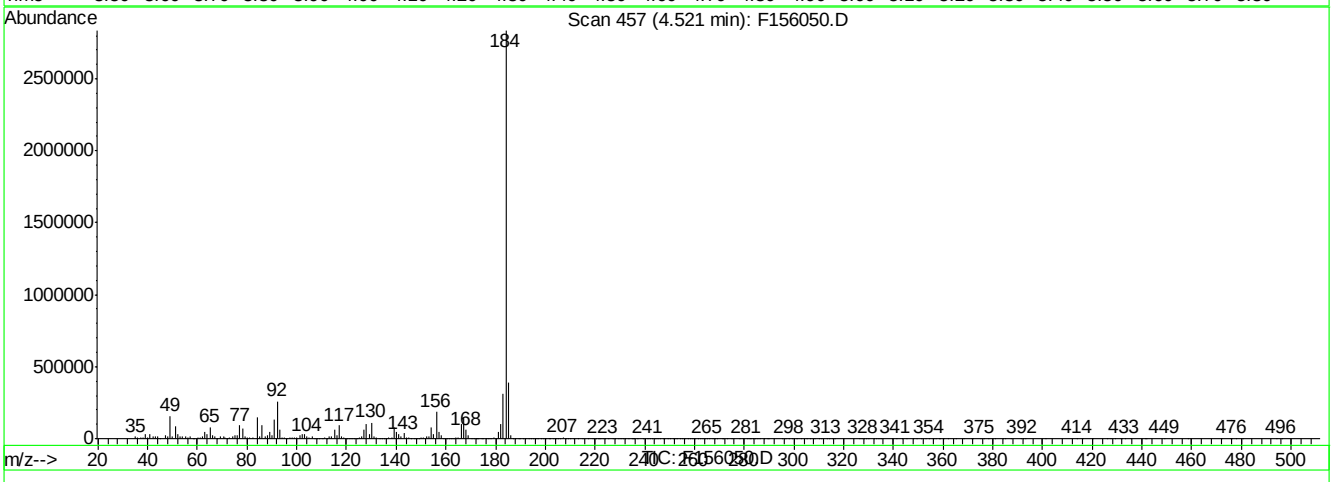
F156050.D DFTPPF.M Mon Apr 04 19:01:22 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 125.89ppb

response 2358304

Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.87
185.00	16.20	13.85
0.00	0.00	0.00

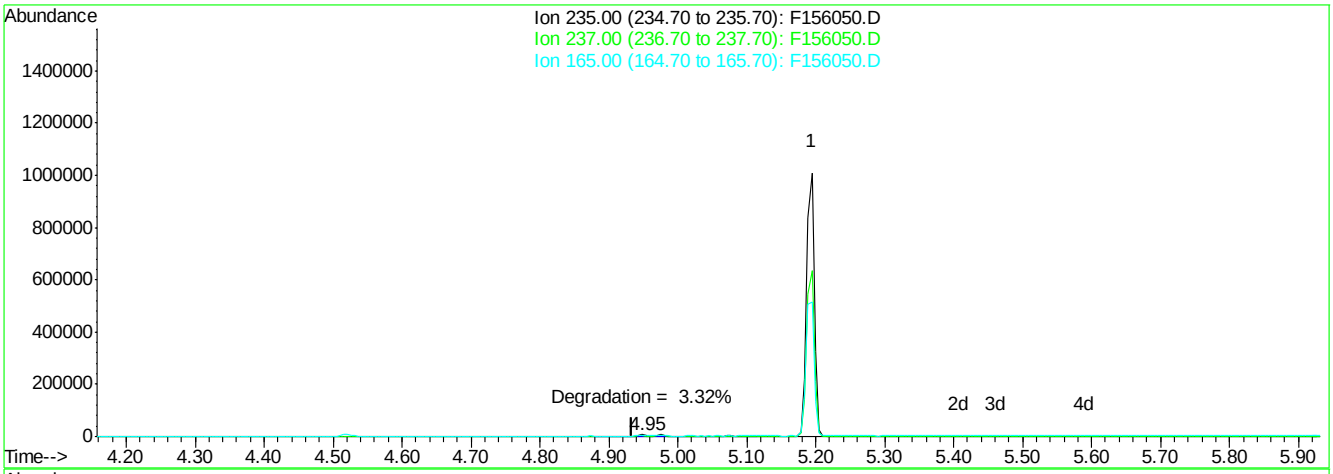
F156050.D DFTPPF.M Mon Apr 04 19:01:32 2016 RT1

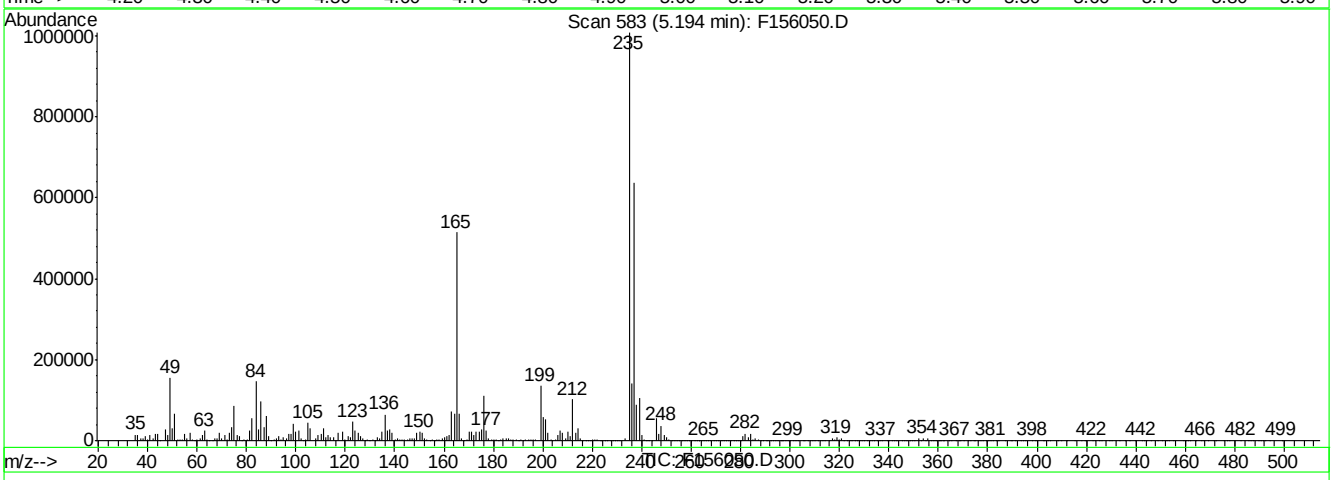
SGS ACCUTEST JC19214

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156050.D Vial: 1
Acq On : 4 Apr 2016 6:54 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 19:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 50.20ppb

response 779578

Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.25
165.00	59.50	54.99
0.00	0.00	0.00

F156050.D DFTPPF.M Mon Apr 04 19:01:45 2016 RT1

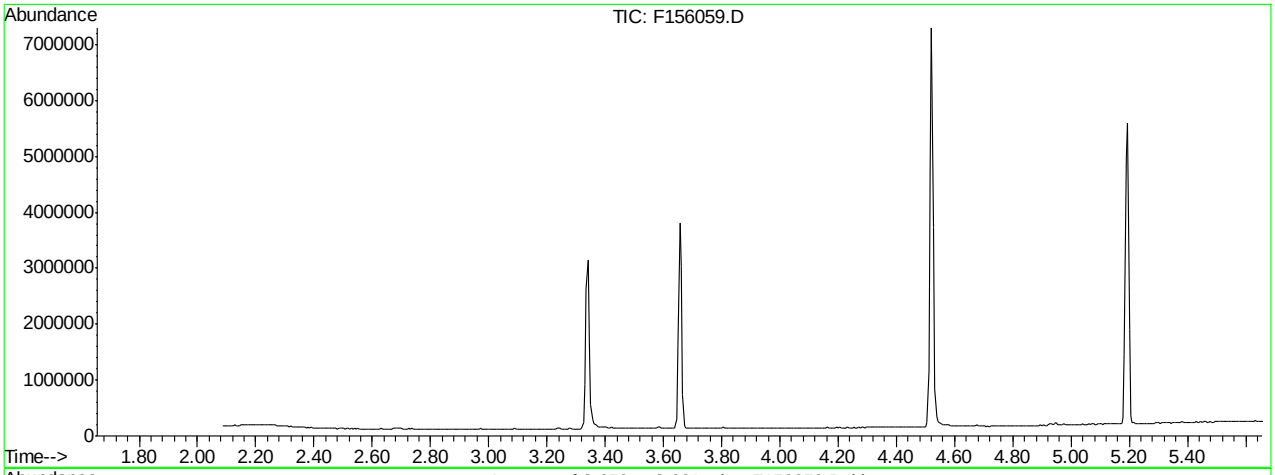
7.5.3.3

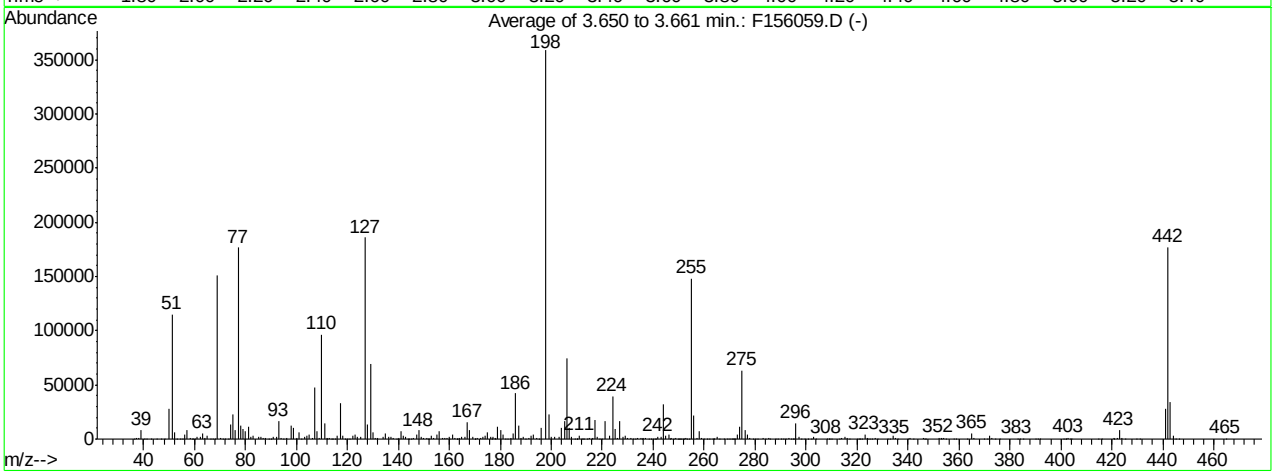
7

SGS ACCUTEST JC19214

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.1	115179	PASS
68	69	0.00	2	0.1	157	PASS
69	198	0.00	100	42.2	151437	PASS
70	69	0.00	2	0.5	785	PASS
127	198	40	60	51.9	186202	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	358677	PASS
199	198	5	9	6.5	23181	PASS
275	198	10	30	17.7	63472	PASS
365	198	1	100	1.5	5413	PASS
441	443	0.10	100	79.8	27575	PASS
442	198	40	100	49.5	177434	PASS
443	442	17	23	19.5	34561	PASS

F156059.D DFTPPF.M Tue Apr 05 09:44:21 2016 RT1

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	101	51.10	115179	61.10	1746	71.80	73
37.10	647	52.10	6200	62.10	1793	73.10	554
38.10	1311	53.10	252	63.10	5611	74.10	13037
39.05	8323	54.15	204	64.10	860	75.10	23122
40.05	441	55.10	276	65.10	2866	76.05	8284
41.10	389	56.10	3758	66.10	219	77.10	176491
43.10	114	57.10	8251	67.10	39	78.10	12704
45.10	71	58.10	758	68.00	157	79.10	9634
47.05	483	59.05	34	69.00	151437	80.05	7703
48.05	346	59.40	63	70.05	785	81.00	11177
50.05	27956	60.10	262	71.20	313	82.00	2523

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	2967	95.00	10	107.05	47593	116.05	2895
85.05	2033	96.05	697	108.05	7381	117.05	33243
86.00	2359	98.00	12220	109.05	1263	118.00	2779
87.00	1087	99.00	10890	110.00	96688	118.95	407
88.00	960	100.05	1205	111.00	14437	120.00	256
89.10	159	101.00	5862	111.90	459	121.00	284
90.00	72	102.00	482	112.05	1342	122.00	3048
91.00	2335	103.00	2269	112.90	627	123.05	4441
92.05	2422	104.05	3609	113.80	79	124.00	1683
93.05	17061	105.05	3684	114.00	101	125.00	2068
94.05	1272	106.10	1410	115.10	289	127.00	186202

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	13730	139.95	594	149.95	896	159.90	554
128.95	69021	141.00	7558	151.05	1092	160.05	2046
130.00	5740	142.05	2861	151.60	283	161.05	3971
131.00	1240	142.95	1628	152.05	256	162.00	830
131.95	628	143.70	136	153.00	2738	162.85	316
134.00	1770	144.10	522	154.00	1359	163.10	248
135.00	5452	145.05	535	155.05	4416	164.05	629
136.05	2251	146.00	1211	156.05	6855	165.00	2524
137.05	2589	147.00	3706	157.15	1431	166.00	2604
138.10	583	148.00	8220	158.00	1275	167.05	15875
139.15	306	149.00	2077	159.00	1316	168.05	8364

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.05	1700	177.90	192	188.10	1460	200.05	1677
170.00	168	178.05	832	189.00	2476	201.50	1904
170.25	453	179.00	11250	190.00	484	203.00	2172
171.00	804	180.05	7935	191.00	1054	204.00	10164
172.05	1051	181.05	4199	192.05	3300	205.05	17072
173.05	2277	181.95	497	193.05	4197	206.10	74245
174.00	2790	182.95	497	194.05	878	207.00	9933
175.05	6057	184.05	737	195.05	522	208.00	1997
176.05	1945	185.05	5325	196.00	10444	209.05	410
176.80	323	186.05	42413	198.00	358677	210.00	511
177.00	2145	187.05	12306	199.00	23181	210.30	455

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.10	3591	219.80	171	232.00	337	240.95	501
211.90	163	221.05	16562	233.05	423	242.00	2453
212.10	158	223.00	3383	234.00	1016	243.05	2298
212.90	178	224.10	39349	235.00	1402	244.05	31834

214.20	57	225.05	9461	235.80	58	245.05	3589
215.00	855	226.05	1111	236.00	583	246.00	4699
215.90	205	227.00	16124	236.95	1420	246.70	89
216.05	1263	228.00	2042	238.05	330	247.05	1194
217.00	17655	229.00	3218	239.05	433	248.00	266
218.05	2283	229.95	590	239.95	427	248.90	1065
218.95	274	231.05	1351	240.80	107	249.85	224

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	96	258.00	7545	268.90	54	277.95	633
250.70	225	259.00	1105	269.95	238	279.05	217
251.15	272	260.00	189	270.80	257	280.10	51
251.70	87	261.00	329	271.10	131	281.05	415
252.05	297	262.10	88	271.70	172	283.00	831
253.00	871	263.50	65	272.15	265	284.10	523
253.40	315	263.80	165	273.00	4245	285.15	817
254.00	454	264.00	143	274.00	11599	286.00	94
255.00	148034	265.05	2447	275.00	63472	288.00	54
256.00	22204	265.90	496	276.00	8397	288.85	195
257.00	1309	267.90	152	277.05	4502	290.20	61

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.95	149	302.10	247	316.95	205	328.00	470
291.95	186	303.00	1987	320.20	51	332.10	412
293.05	1451	303.90	551	320.90	173	333.00	465
293.95	367	308.10	364	321.10	267	334.00	3432
294.90	70	309.00	106	322.05	284	335.05	767
295.10	145	309.20	88	323.05	4529	336.00	79
296.00	14754	309.95	185	323.90	146	340.00	178
297.05	2016	312.90	78	324.05	772	340.95	617
298.00	100	314.10	894	325.05	115	342.10	63
299.30	58	315.05	1782	326.00	63	346.05	1077
300.90	122	316.00	1001	326.95	849	346.70	169

Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
347.00	116	370.00	203	392.00	178	422.00	1337
352.00	1458	371.00	426	401.00	53	423.00	8310
352.90	88	372.05	2666	401.85	228	424.05	1589
353.05	1025	373.05	614	402.10	351	425.05	283
354.00	1462	374.00	76	403.00	1361	429.80	115
354.95	374	376.10	64	403.80	56	430.90	52
357.90	59	383.00	543	404.10	504	441.00	27575
358.95	197	383.80	175	414.90	69	442.00	177434
363.00	72	385.00	114	416.00	57	443.00	34561
365.00	5413	389.95	280	420.70	147	444.00	3599
366.00	914	390.90	385	421.00	983	445.00	148

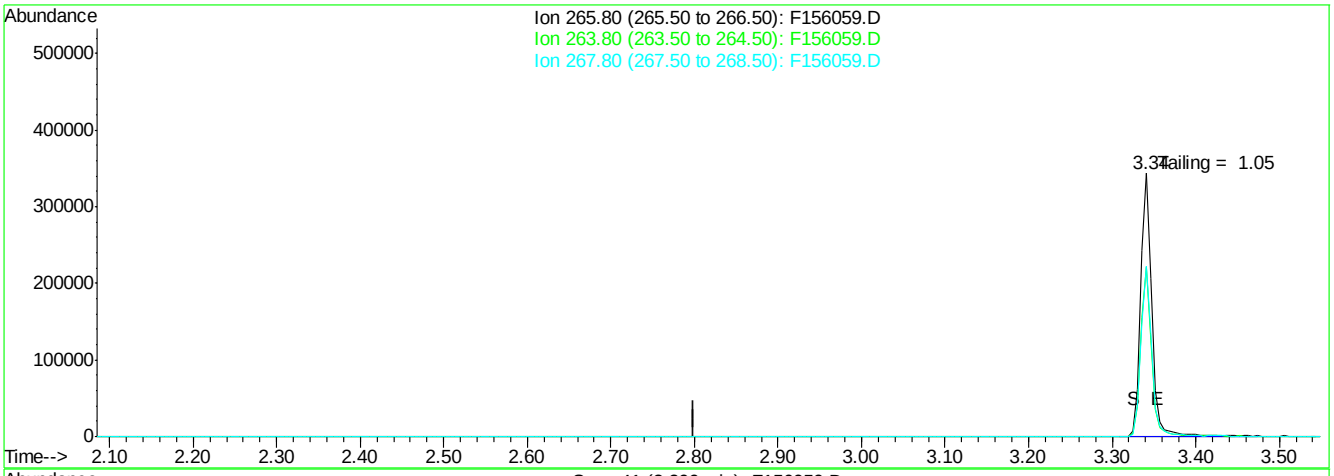
Average of 3.650 to 3.661 min.: F156059.D
dftpp
Modified:subtracted

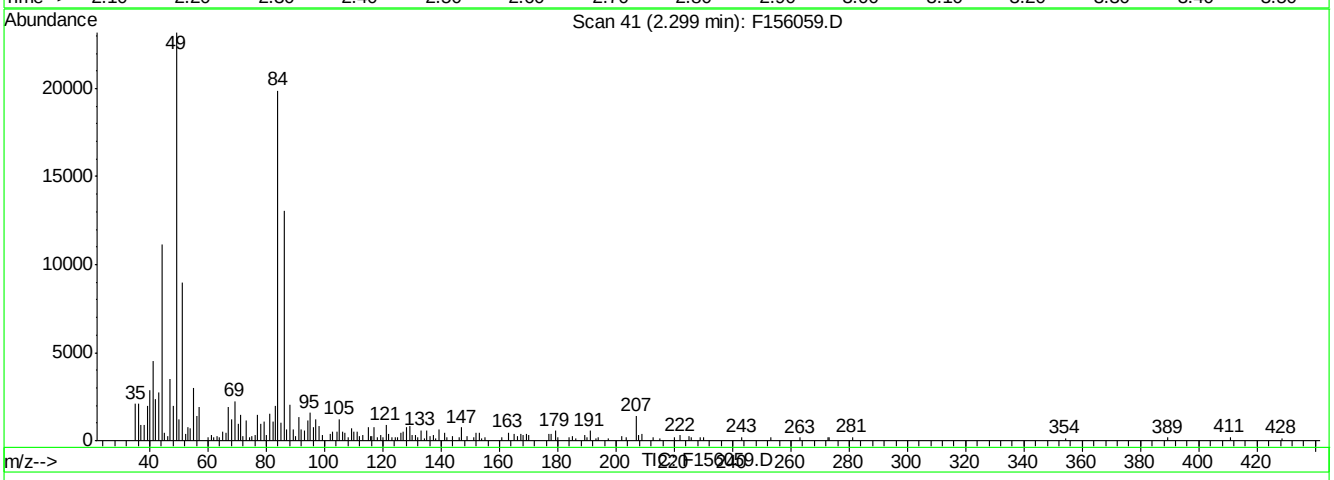
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
446.20	59						
464.70	59						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

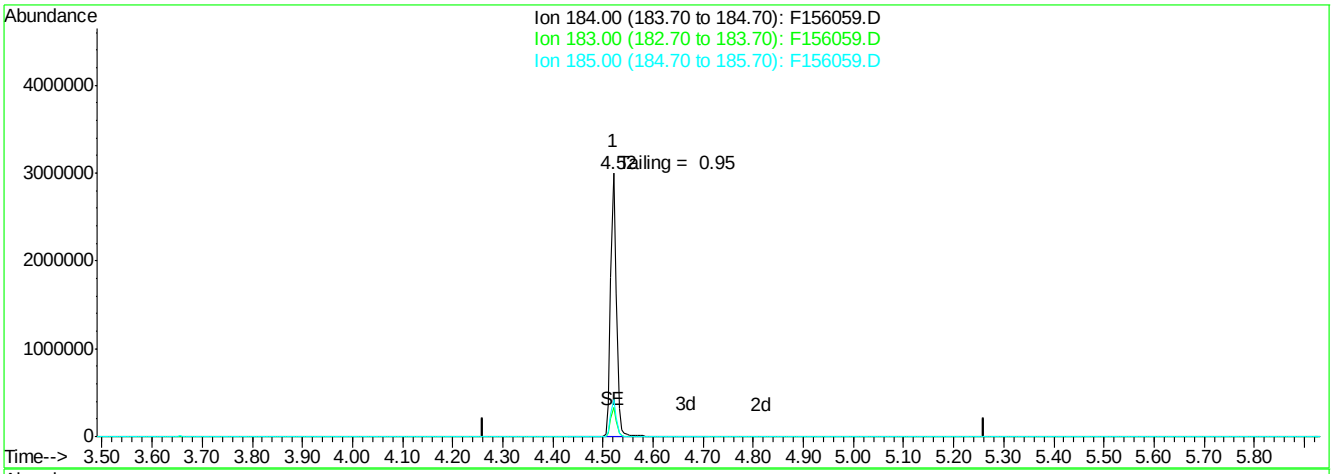
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

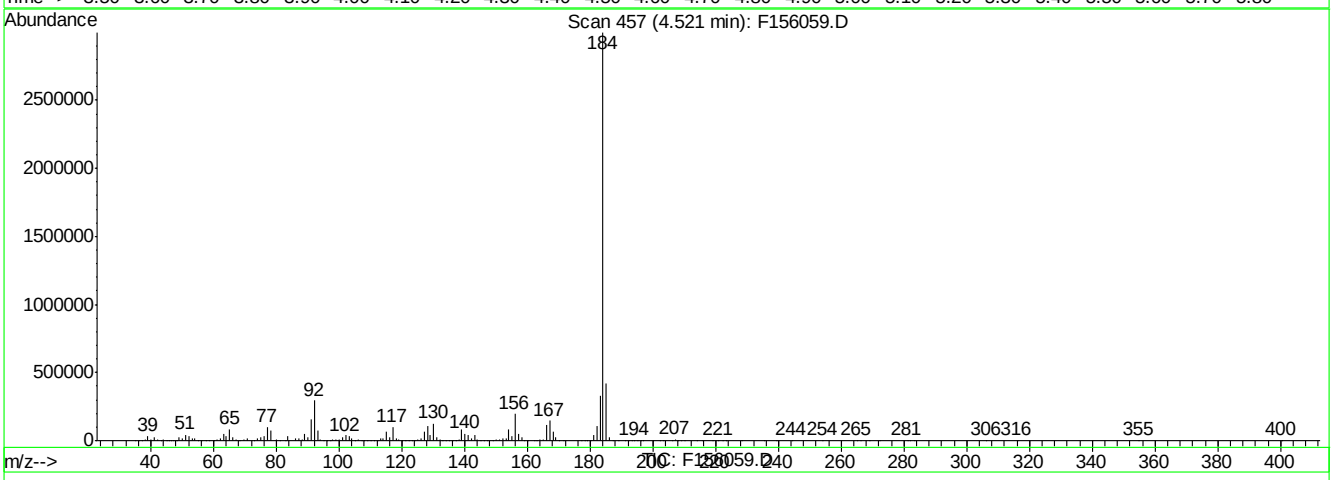
F156059.D DFTPPF.M Mon Apr 04 23:16:21 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 127.15ppb

response 2381841

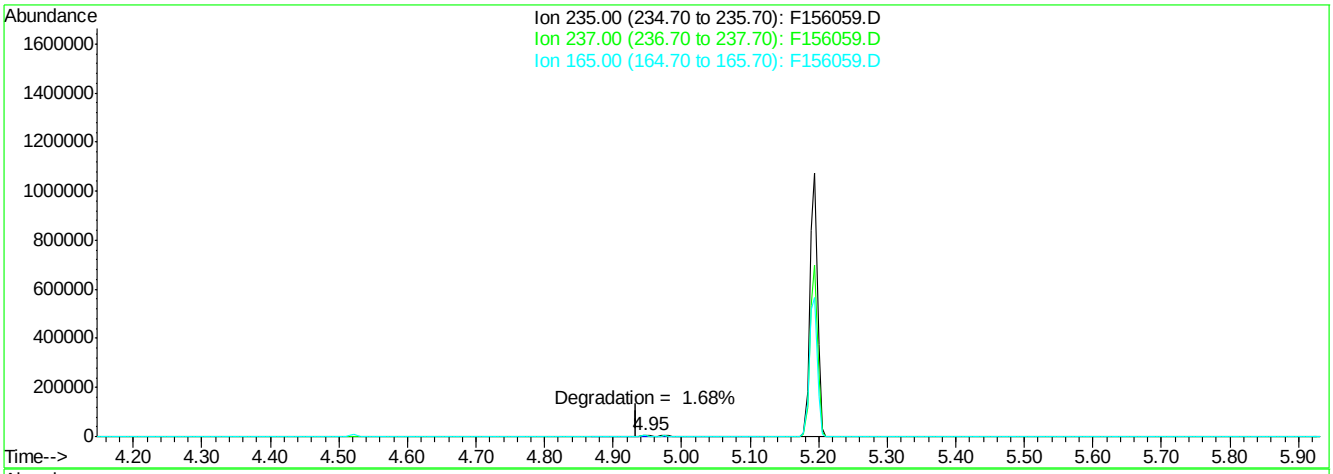
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	10.83
185.00	16.20	13.82
0.00	0.00	0.00

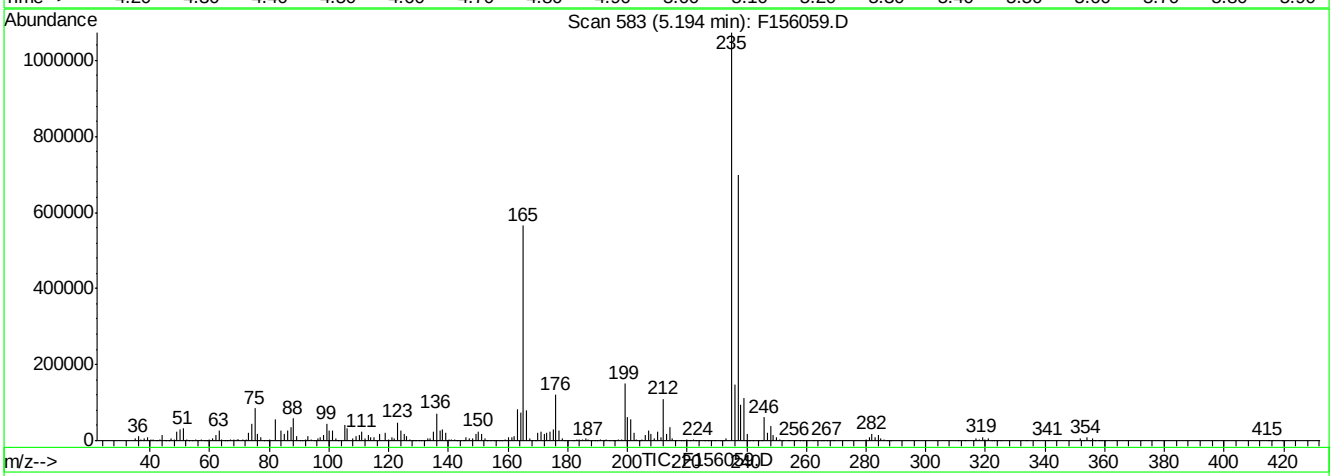
F156059.D DFTPPF.M Mon Apr 04 23:16:45 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156059.D Vial: 1
Acq On : 4 Apr 2016 11:06 pm Operator: sarad
Sample : dftpp Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 4 23:12 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.19min 51.98ppb

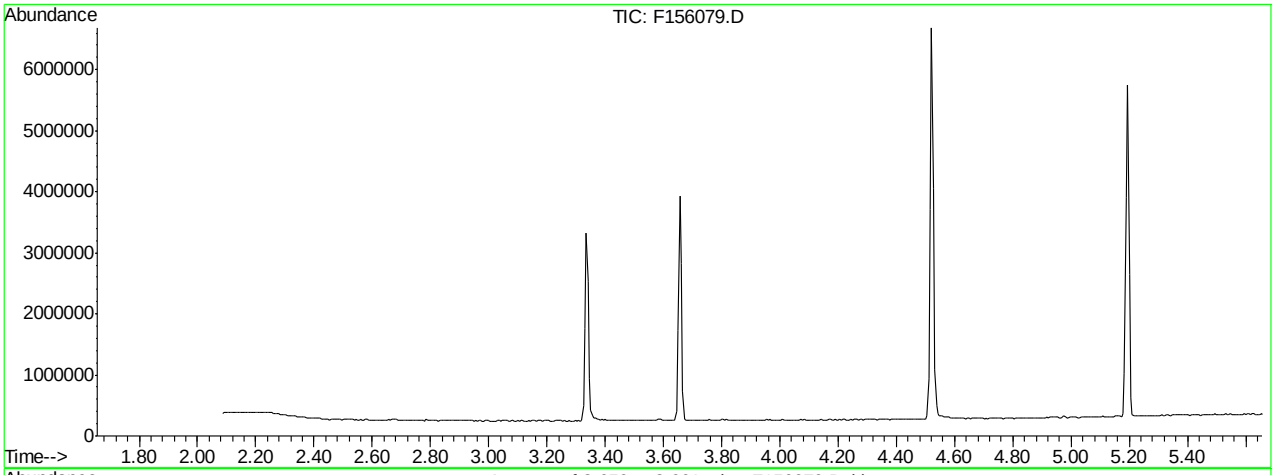
response 807232

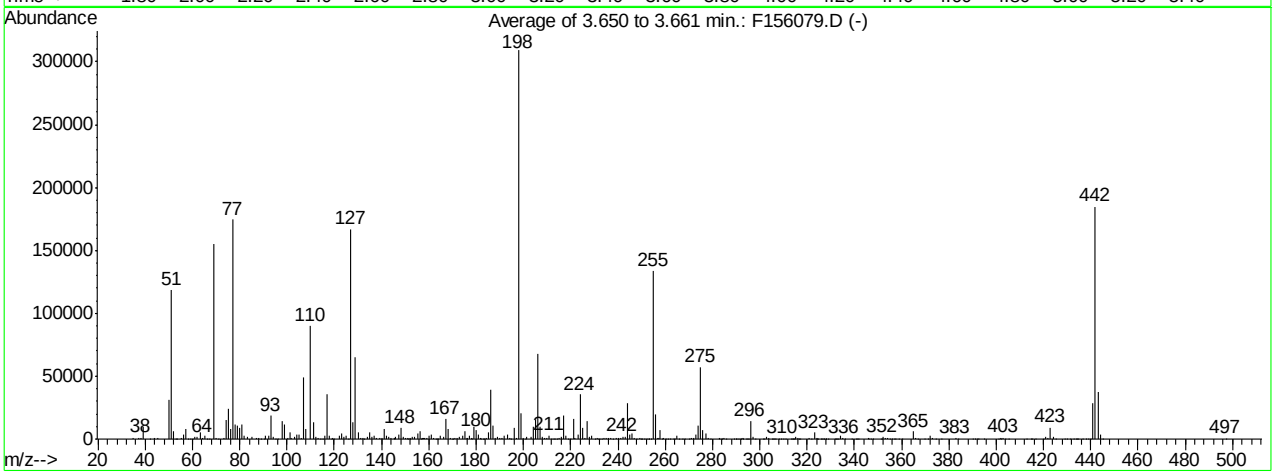
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.82
165.00	59.50	55.83
0.00	0.00	0.00

F156059.D DFTPPF.M Mon Apr 04 23:16:54 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 294, 295, 296; Background Corrected with Scan 289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	118168	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.1	154947	PASS
70	69	0.00	2	0.6	884	PASS
127	198	40	60	54.0	166781	PASS
197	198	0.00	1	0.3	1052	PASS
198	198	100	100	100.0	308970	PASS
199	198	5	9	6.7	20614	PASS
275	198	10	30	18.6	57501	PASS
365	198	1	100	1.9	5929	PASS
441	443	0.10	100	76.3	28422	PASS
442	198	40	100	59.7	184536	PASS
443	442	17	23	20.2	37228	PASS

F156079.D DFTPPF.M Fri Apr 08 15:28:35 2016 RT1

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	667	53.20	117	65.10	2941	78.05	11292
37.05	1026	55.05	658	66.20	101	79.10	10603
38.10	1273	56.10	4012	67.15	94	80.00	8673
39.10	9963	57.10	8411	69.00	154947	81.10	11796
42.05	120	58.05	36	70.05	884	82.05	2958
44.10	849	59.05	57	71.10	323	83.05	1951
45.15	596	60.00	356	73.05	603	85.00	2241
50.10	30786	61.10	1853	74.05	14782	87.00	1019
51.10	118168	62.10	1852	75.10	23834	87.95	1110
52.10	6110	63.10	5338	76.10	8405	89.00	358
52.90	57	64.10	997	77.05	174656	90.20	91

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.05	2779	103.05	1986	115.05	340	126.00	327
92.05	2769	104.05	3201	116.05	2739	127.10	166781
93.05	18570	105.05	3356	117.00	35881	128.05	13437
94.10	1384	106.00	1133	118.00	2918	129.00	65472
95.10	356	107.05	49400	118.90	145	130.00	5688
96.05	24	108.05	8109	119.10	512	131.10	1251
98.00	14724	110.00	89884	120.00	306	132.05	539
99.05	11486	111.05	13306	122.05	2696	132.40	99
100.10	1052	111.95	1519	123.05	4519	134.00	1462
101.05	5787	113.00	660	124.00	2036	135.00	5474
101.95	679	114.30	113	125.00	2583	136.05	1886

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.05	3135	147.05	3582	156.05	6422	164.00	454
138.00	801	148.00	8729	156.90	285	165.05	2755
139.05	484	149.05	2053	157.05	1090	166.10	1773
140.05	743	149.95	674	157.85	642	167.05	15693
141.00	7666	151.05	853	158.10	1011	168.10	7938
142.00	2660	151.30	357	159.05	1124	169.05	1374
143.00	2218	151.85	674	160.05	2607	169.85	269
144.15	547	152.10	208	161.05	3728	170.10	287
145.15	573	153.00	2180	162.10	1002	170.95	501
145.40	114	153.95	1935	162.95	239	172.00	1355
145.95	1435	155.10	4655	163.30	60	173.05	1662

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.10	2968	182.05	576	192.00	2903	203.05	1595
175.10	6074	183.05	371	193.05	3396	204.10	9477
176.00	927	183.30	93	194.05	782	205.10	15564
176.25	664	184.10	599	194.85	208	206.10	68202
177.00	2531	185.05	5307	196.05	9113	207.10	9492
177.90	149	186.10	39165	196.95	1052	208.05	2091
178.10	905	187.05	10709	198.00	308970	209.05	611
179.00	9970	188.15	1159	199.00	20614	210.05	993
180.05	6847	188.90	1918	200.05	1232	211.00	2973
181.05	3826	190.05	512	200.80	55	211.80	208
181.80	132	191.05	1295	201.55	1557	212.90	190

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.15	195	224.10	35469	233.90	1076	245.05	4005
213.95	130	225.05	9384	235.05	1254	246.05	4658
215.05	737	226.15	956	236.00	833	246.95	1017
216.00	1845	227.00	14629	237.10	960	248.00	205

217.00	18514	228.05	1864	237.80	97	249.05	1041
218.00	2638	229.00	2762	239.05	592	249.90	91
219.10	136	230.05	441	240.00	492	250.15	198
219.90	173	231.05	1285	241.05	869	251.00	113
221.05	15979	231.90	147	242.05	2033	251.95	271
221.80	1226	232.15	196	243.10	1945	253.00	296
223.05	3568	232.90	225	244.10	28169	253.20	321

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
254.00	206	263.70	99	275.05	57501	288.95	169
255.00	133373	264.05	309	276.00	7190	289.90	148
256.00	19713	265.00	2776	277.00	4591	290.20	98
257.00	919	265.90	367	277.95	735	290.85	161
257.20	561	267.05	102	279.10	51	291.90	129
258.00	7434	268.00	280	282.80	52	292.10	140
258.80	275	270.20	180	283.00	530	292.90	471
259.00	967	271.15	495	283.70	126	293.00	567
260.10	375	272.05	614	284.10	124	294.10	287
260.95	193	273.00	3969	285.00	990	294.90	111
261.90	51	274.00	10577	285.85	170	295.10	197

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
296.00	14716	308.10	349	316.70	95	327.10	421
297.05	1780	309.00	153	317.00	201	327.90	129
297.95	196	309.95	312	321.05	733	328.15	200
301.20	133	310.90	97	321.90	215	329.00	73
302.05	188	313.05	398	323.10	5126	331.90	276
302.95	1804	313.80	88	324.00	461	332.20	183
303.95	490	314.00	326	324.20	480	332.90	384
305.00	65	314.20	323	324.70	86	333.10	276
305.80	81	314.90	151	325.90	74	334.05	2760
306.00	61	315.05	1456	326.20	71	335.05	966
306.80	50	315.95	908	326.85	363	335.90	142

Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
339.00	70	353.00	1136	369.85	155	392.30	97
340.80	126	354.00	1339	370.95	441	394.80	57
341.05	330	355.00	389	372.10	3032	401.15	216
341.95	217	355.90	57	373.05	659	401.90	541
345.80	118	357.10	76	374.50	58	402.10	456
346.00	1033	357.50	50	376.85	156	403.05	1060
347.00	235	358.90	91	382.95	770	404.05	415
348.10	117	360.00	71	384.10	58	405.20	87
351.00	93	365.00	5929	389.95	354	412.90	66
351.90	102	365.95	1070	391.00	311	414.80	54
352.10	1430	366.85	222	392.00	186	415.10	112

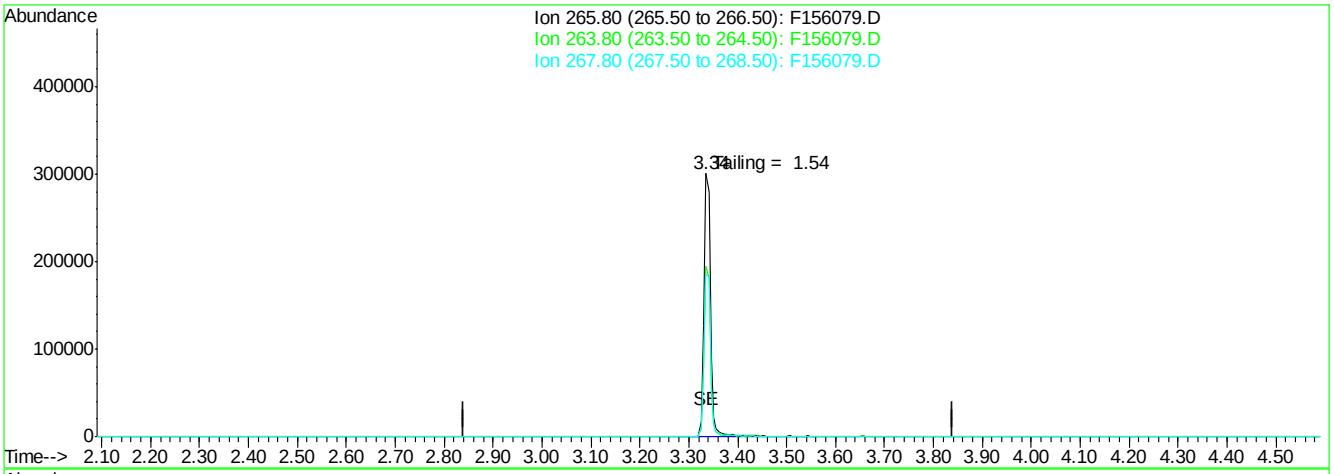
Average of 3.650 to 3.661 min.: F156079.D
dftpp
Modified:subtracted

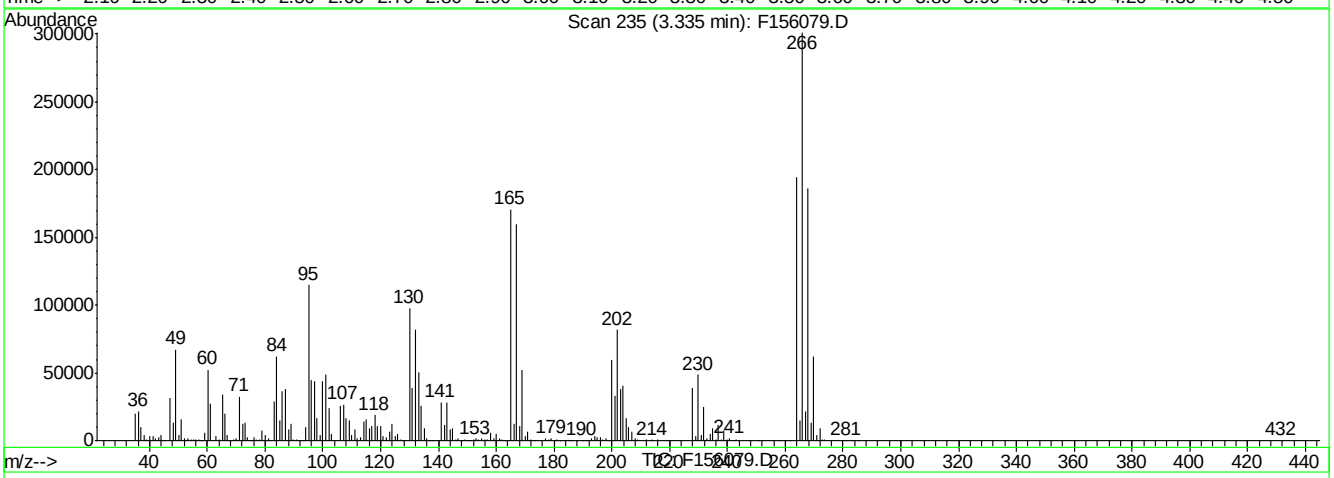
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
416.60	56	433.70	118	444.90	67		
420.00	111	434.00	50	497.10	50		
421.00	1411	434.90	75				
422.00	924	436.80	114				
423.00	9097	437.80	61				
424.10	2024	438.90	143				
425.05	224	439.80	56				
429.10	92	441.00	28422				
429.90	66	442.00	184536				
431.45	141	443.00	37228				
432.60	97	444.10	3196				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 8 15:27 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 149.84ppb

response 278544

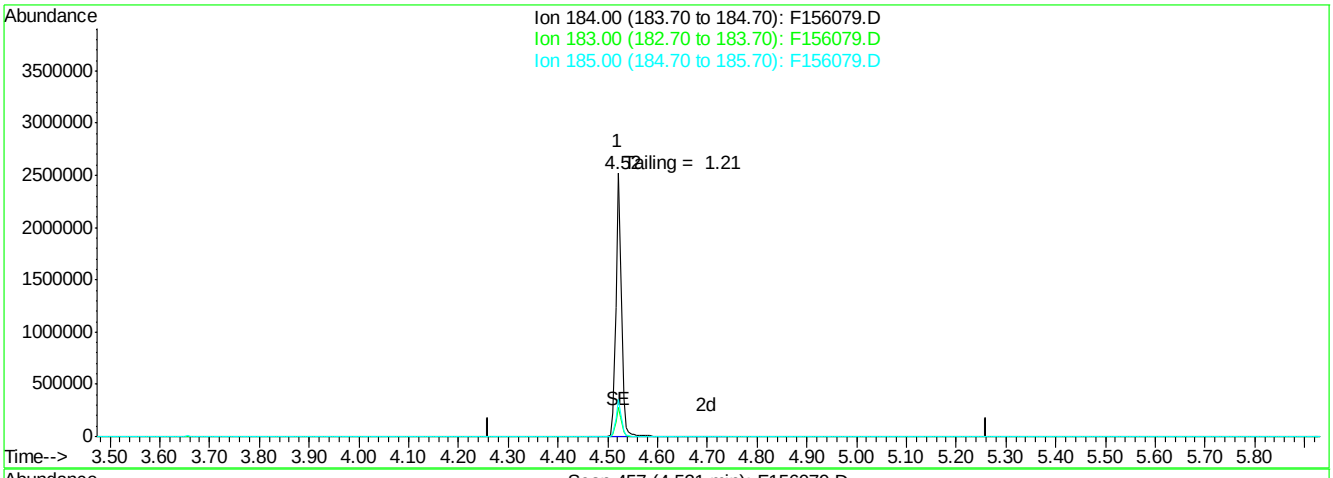
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	64.60
267.80	64.80	61.71
0.00	0.00	0.00

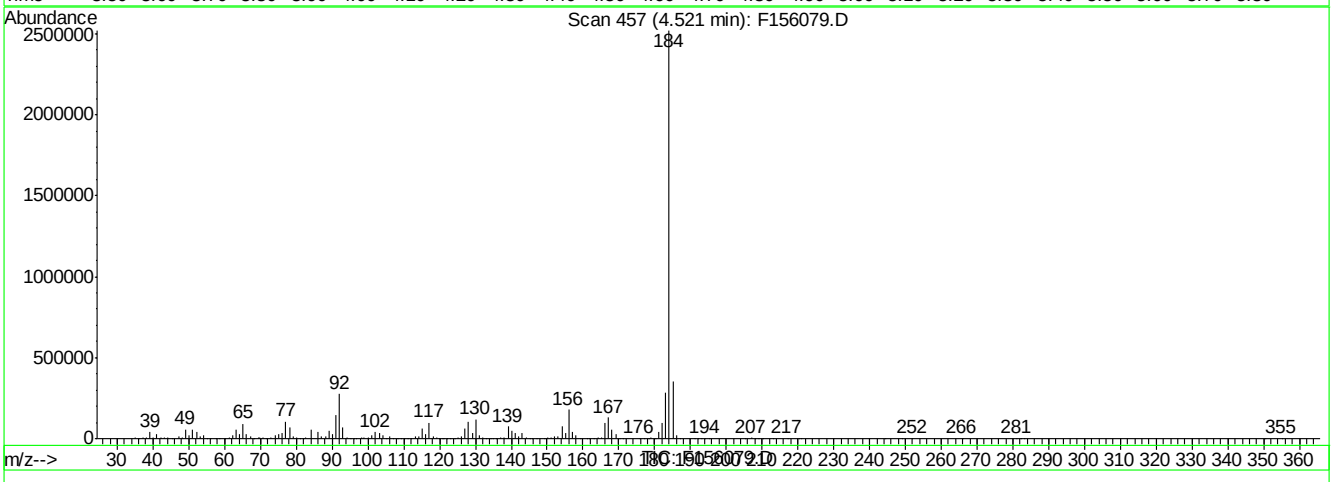
F156079.D DFTPPF.M Fri Apr 08 15:28:06 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 8 15:27 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 107.51ppb

response 2013920

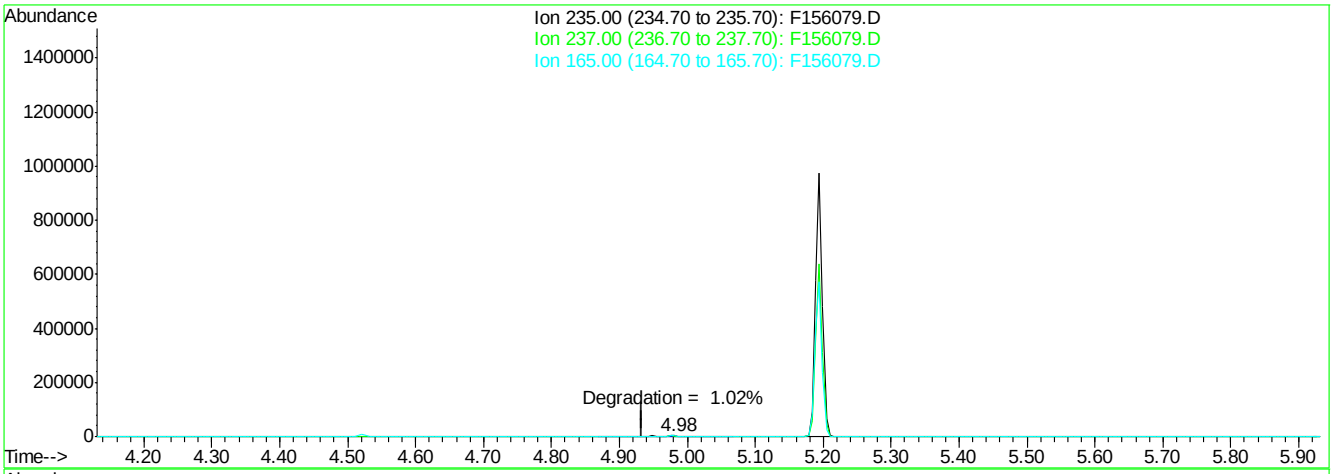
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.24
185.00	16.20	13.76
0.00	0.00	0.00

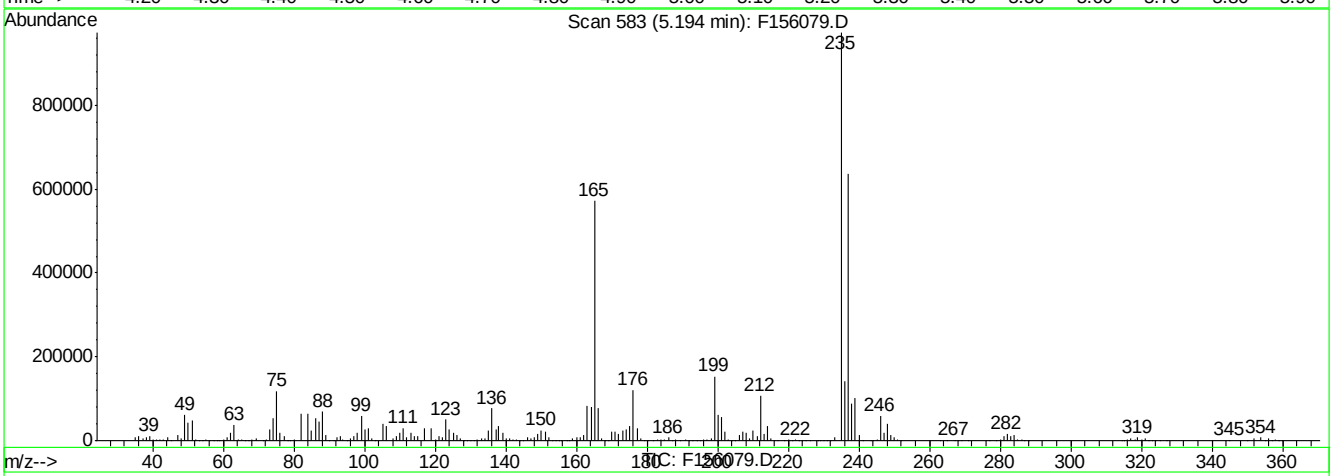
F156079.D DFTPPF.M Fri Apr 08 15:28:19 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156079.D Vial: 1
Acq On : 5 Apr 2016 1:58 pm Operator: linseyk
Sample : dftpp Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 8 15:27 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 45.46ppb

response 705858

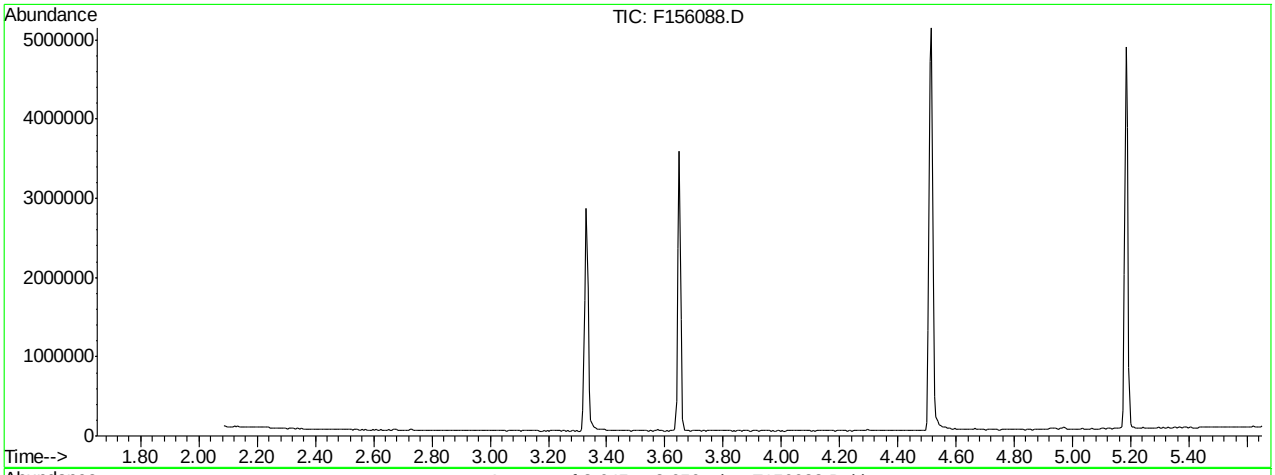
Ion	Exp%	Act%
235.00	100	100
237.00	66.70	64.72
165.00	59.50	59.82
0.00	0.00	0.00

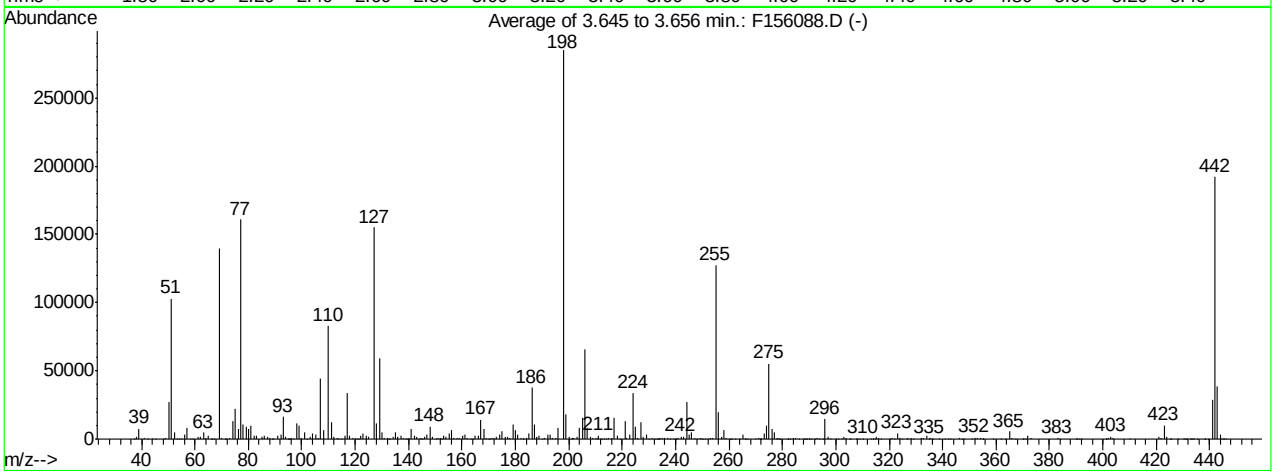
F156079.D DFTPPF.M Fri Apr 08 15:28:27 2016 RT1

SGS ACCUTEST JC19214

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 293, 294, 295; Background Corrected with Scan 288

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	102858	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.1	139965	PASS
70	69	0.00	2	0.5	764	PASS
127	198	40	60	54.5	155093	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	284778	PASS
199	198	5	9	6.4	18151	PASS
275	198	10	30	19.4	55232	PASS
365	198	1	100	1.9	5389	PASS
441	443	0.10	100	74.0	28740	PASS
442	198	40	100	67.5	192210	PASS
443	442	17	23	20.2	38818	PASS

F156088.D DFTPPF.M Fri Apr 08 16:29:12 2016 RT1

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	422	52.15	5161	64.10	775	75.10	22161
38.10	1660	53.10	365	65.10	2825	76.15	7083
39.10	7784	53.90	50	66.00	72	77.10	160886
41.10	791	54.95	420	66.15	188	78.10	10930
42.20	116	56.10	3225	67.05	187	79.05	9279
44.10	315	57.05	7993	69.00	139965	80.00	7587
45.10	166	58.05	432	70.10	764	81.05	9790
48.00	164	59.05	112	71.05	136	82.10	2490
49.10	536	61.10	1593	71.80	56	83.00	2187
50.05	27320	62.10	1806	73.10	1142	85.05	1968
51.10	102858	63.10	4851	74.10	13287	86.00	2502

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.05	1482	96.05	824	107.10	44368	118.90	475
88.00	469	96.95	24	108.05	6868	119.90	214
88.80	71	98.00	11504	110.00	82640	120.15	329
89.10	352	99.05	9765	111.05	12612	120.95	188
91.05	2330	100.00	753	112.00	1505	121.20	122
92.05	2954	101.00	5375	113.05	508	122.05	2348
93.00	16059	102.10	316	113.80	60	123.00	4021
94.00	1312	103.05	1449	114.75	165	124.05	2433
94.90	167	104.05	3890	116.10	2222	125.00	2039
95.10	168	105.10	3106	117.05	33584	127.10	155093
95.40	294	105.95	559	118.00	2268	128.10	11711

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	59208	138.90	160	148.00	9076	158.10	1085
130.00	5206	139.10	111	149.00	1708	159.00	1147
130.95	1065	140.05	562	150.05	425	160.05	2284
132.05	459	141.05	7169	151.20	1208	161.10	3432
132.75	339	142.05	2414	151.70	525	162.10	1175
133.05	211	143.05	1603	152.10	233	163.00	402
134.10	1297	144.10	466	153.05	2092	164.00	363
135.05	4892	144.80	143	154.00	1787	165.05	2418
136.10	1858	145.05	325	155.10	4093	166.00	2135
137.00	2572	146.00	1329	156.10	6531	167.05	14023
137.90	830	147.00	3032	157.10	1044	168.05	7410

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.10	1190	178.00	707	188.05	1274	200.10	1778
169.90	419	179.00	10755	189.00	2419	200.80	123
170.30	92	180.05	6796	190.00	346	201.40	812
171.05	879	181.00	2999	191.05	1220	201.70	599
172.05	1234	181.95	641	192.05	3064	203.00	1878
173.00	1613	182.80	134	193.00	3588	204.10	8551
174.10	3204	183.10	197	193.90	703	205.10	15920
175.10	5492	184.05	748	194.95	625	206.10	65842
176.10	1566	185.10	4417	196.05	8040	207.05	8584
176.90	864	186.10	37725	198.00	284778	208.00	1758
177.10	1510	187.10	10488	199.00	18151	209.00	492

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.10	953	219.20	110	231.10	1223	240.00	115
210.50	388	221.05	13237	232.05	215	240.15	312
211.10	2663	221.70	523	232.95	278	241.05	998
211.90	185	223.00	3629	233.20	162	242.00	1829

212.20	77	224.10	33869	233.90	309	243.15	1575
213.00	97	225.05	8704	234.10	696	244.10	27274
214.10	52	225.90	831	235.05	1004	245.10	3432
214.95	570	227.00	12761	235.95	890	246.05	4873
216.00	1212	228.05	2041	237.00	1046	247.00	895
217.00	15507	229.05	3152	238.10	67	247.90	128
218.00	2173	229.80	302	239.00	436	249.05	776

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.80	93	260.20	61	271.60	96	279.20	82
250.00	170	260.60	51	271.80	113	281.80	53
251.05	287	261.05	277	272.10	296	282.05	238
252.00	206	262.40	59	273.05	4058	283.00	317
253.05	816	263.80	214	274.00	9959	284.00	528
254.00	595	265.00	2944	275.00	55232	285.10	852
255.00	127522	266.00	188	276.10	7485	286.10	109
256.05	19434	266.15	298	277.00	4765	287.90	59
257.10	1335	266.95	140	277.90	393	288.10	52
258.00	6378	270.00	250	278.05	683	288.90	138
259.00	1069	270.95	457	278.80	80	289.20	56

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
289.80	53	301.00	99	313.90	306	324.90	65
290.00	73	301.95	365	314.10	390	326.30	62
290.80	63	303.10	1857	314.80	284	327.00	766
291.95	169	304.00	489	315.05	1532	328.10	586
293.10	1244	305.05	133	316.00	843	328.90	67
293.95	289	305.70	50	317.05	160	331.95	697
294.90	108	307.80	194	320.00	62	333.00	508
296.00	14782	308.00	168	321.00	489	334.00	2716
296.95	1866	309.00	63	322.05	240	334.95	423
298.10	353	310.15	240	323.05	4530	335.20	468
300.00	58	312.90	65	324.05	1066	336.00	85

Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
336.25	148	354.05	1232	370.85	279	402.00	951
338.80	50	355.00	103	372.05	2563	403.05	1765
340.90	420	355.15	177	373.15	594	403.90	605
342.00	80	359.00	78	383.05	684	410.20	64
342.80	77	361.60	78	383.95	230	421.00	1693
346.05	977	363.30	63	389.95	284	421.95	1150
346.95	245	365.00	5389	390.20	100	423.00	10193
348.00	56	365.95	1063	391.05	307	424.10	1875
350.80	55	367.10	57	391.90	238	425.00	218
351.95	1195	370.00	63	401.05	168	425.70	124
353.05	845	370.30	84	401.40	86	428.20	100

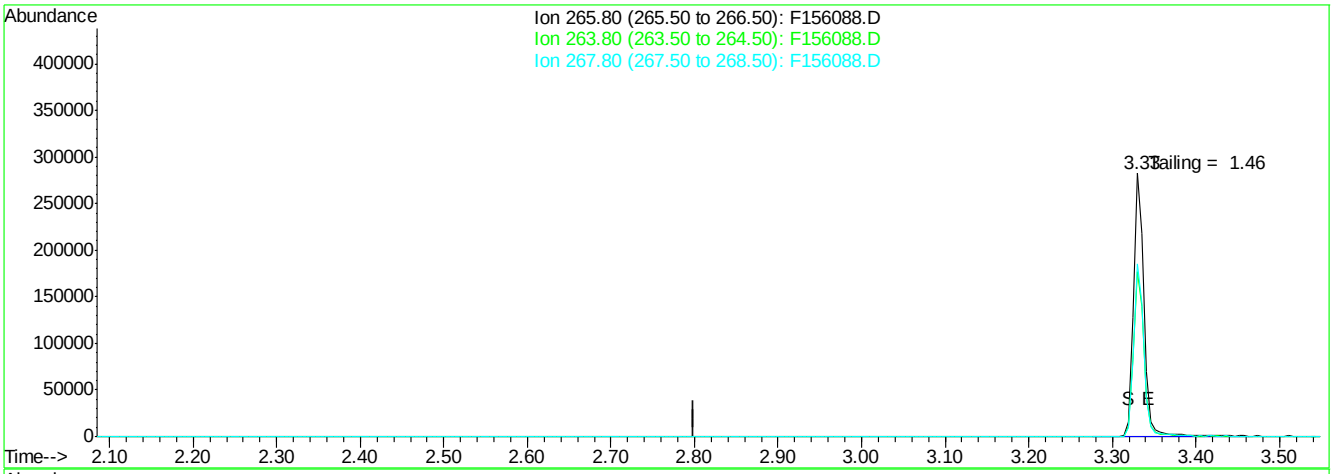
Average of 3.645 to 3.656 min.: F156088.D
dftpp
Modified:subtracted

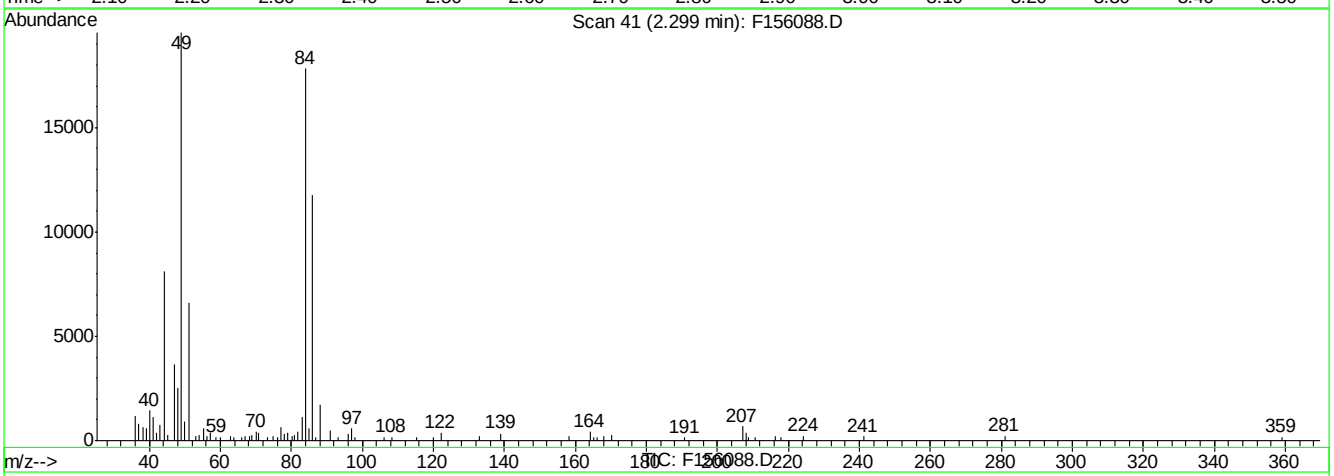
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
430.00	218	439.30	60				
430.50	68	441.05	28740				
431.10	89	442.00	192210				
431.45	133	443.00	38818				
432.65	134	443.90	401				
433.00	76	444.10	3354				
433.40	66	444.90	204				
433.90	59	445.20	184				
435.30	97	446.00	56				
438.10	60						
438.30	53						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(1) Pentachlorophenol (t)

2.30min 0.00ppb

response 0

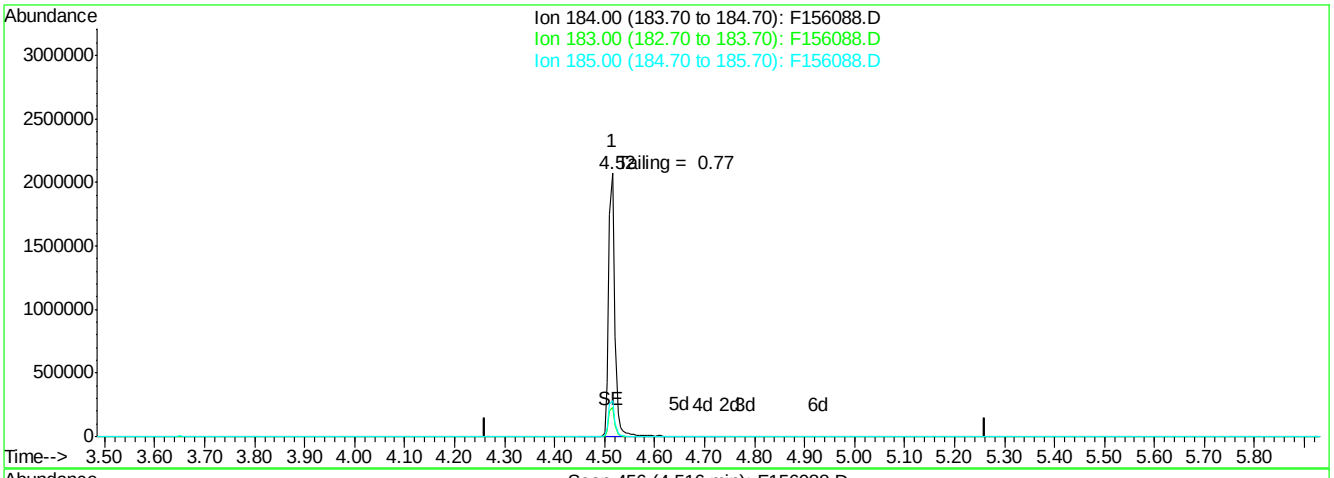
Ion	Exp%	Act%
265.80	100	0.00
263.80	63.00	0.00#
267.80	64.80	0.00#
0.00	0.00	0.00

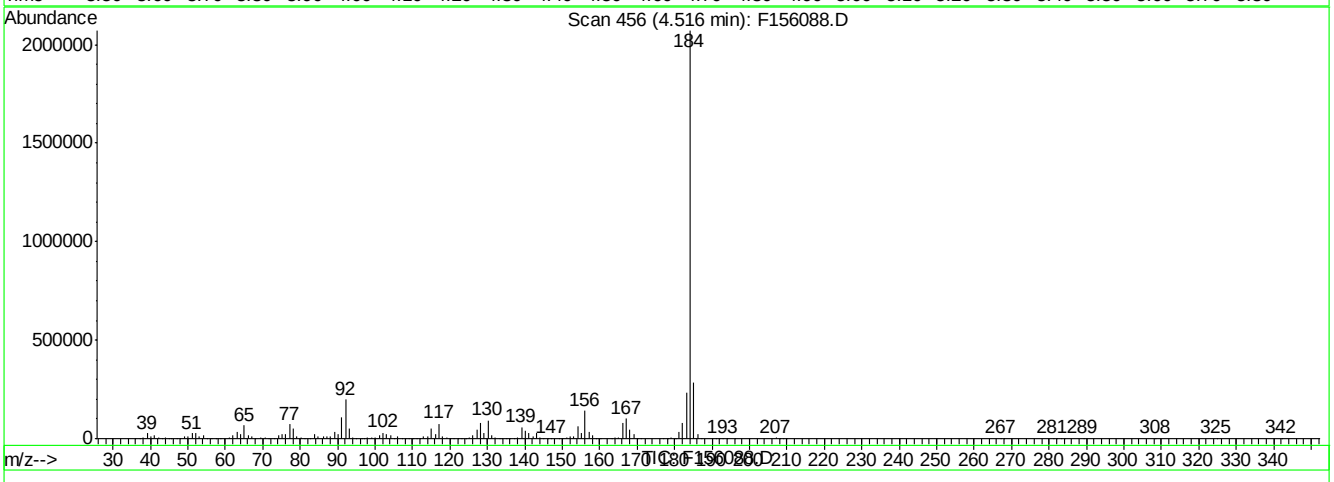
F156088.D DFTPPF.M Tue Apr 05 18:12:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Multiple Level Calibration





(2) Benzidine (t)

4.52min 94.58ppb

response 1771832

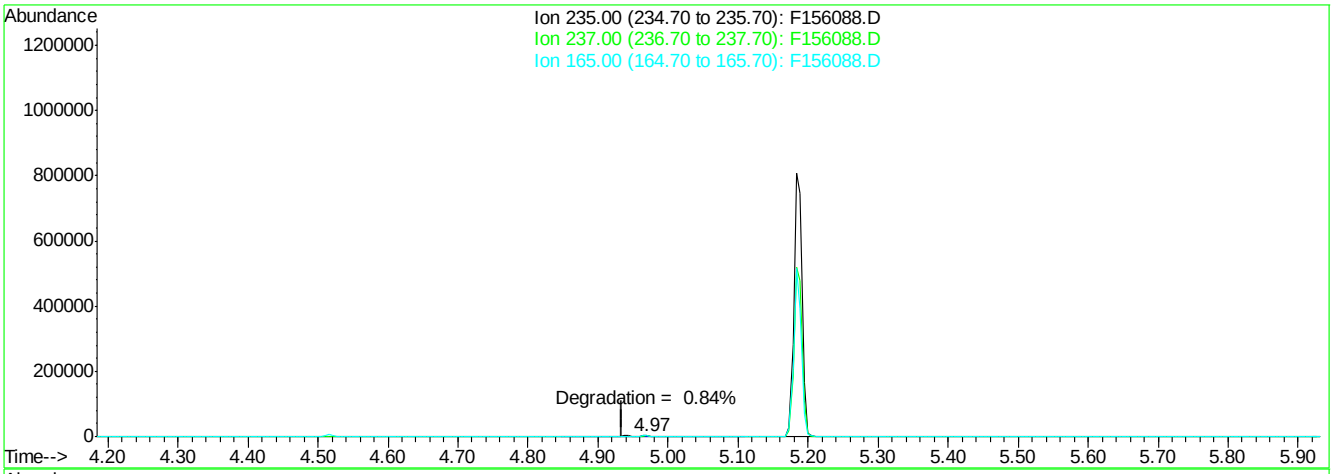
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	11.25
185.00	16.20	14.07
0.00	0.00	0.00

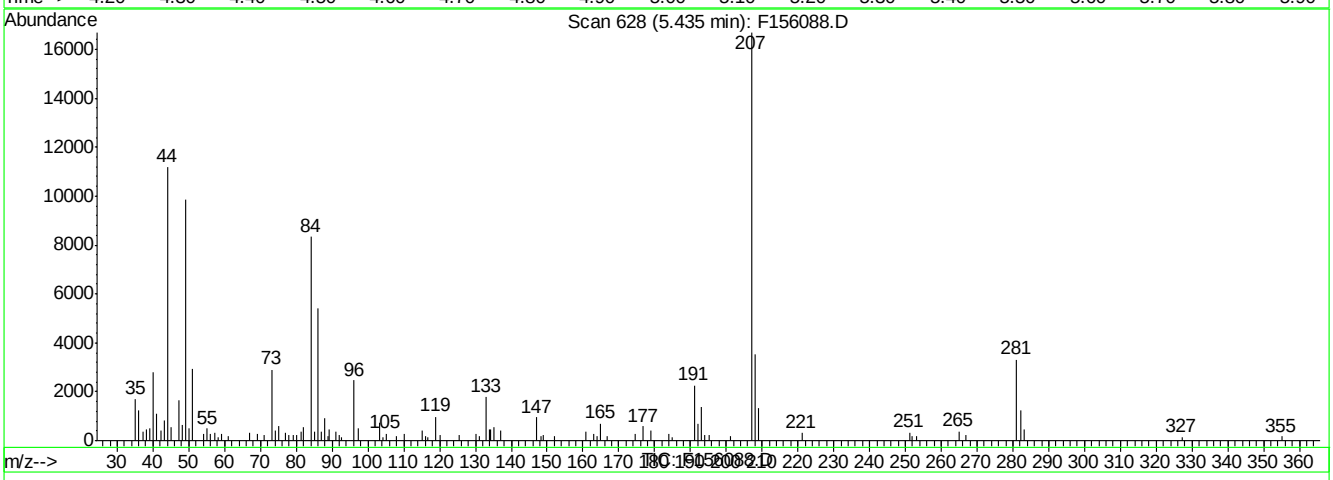
F156088.D DFTPPF.M Tue Apr 05 18:12:55 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156088.D Vial: 1
Acq On : 5 Apr 2016 6:00 pm Operator: ashleyd
Sample : dftpp Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 5 18:06 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPF.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Mar 24 11:46:42 2016
Response via : Single Level Calibration





(3) ddt (t)

5.43min 0.00ppb

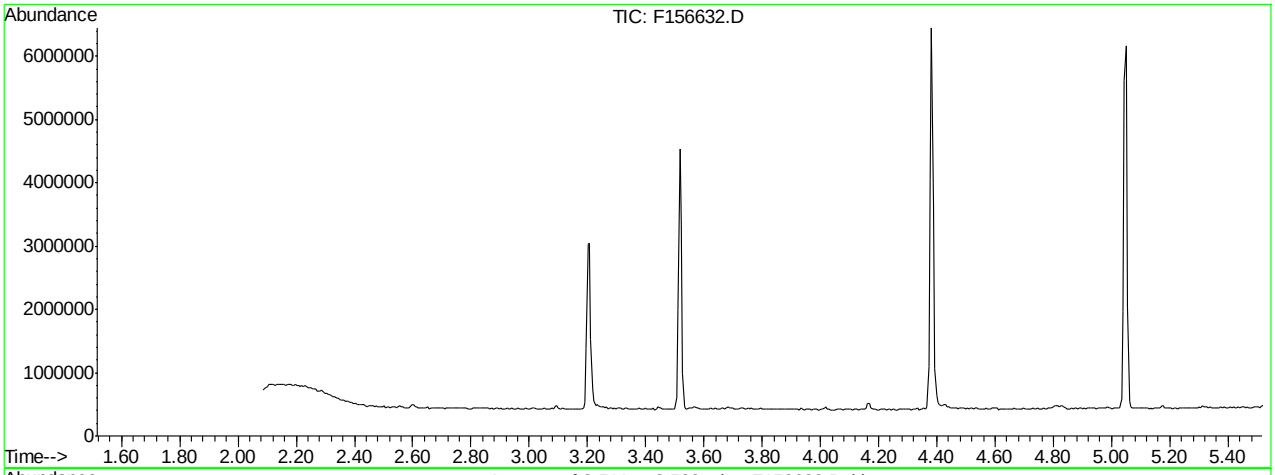
response 0

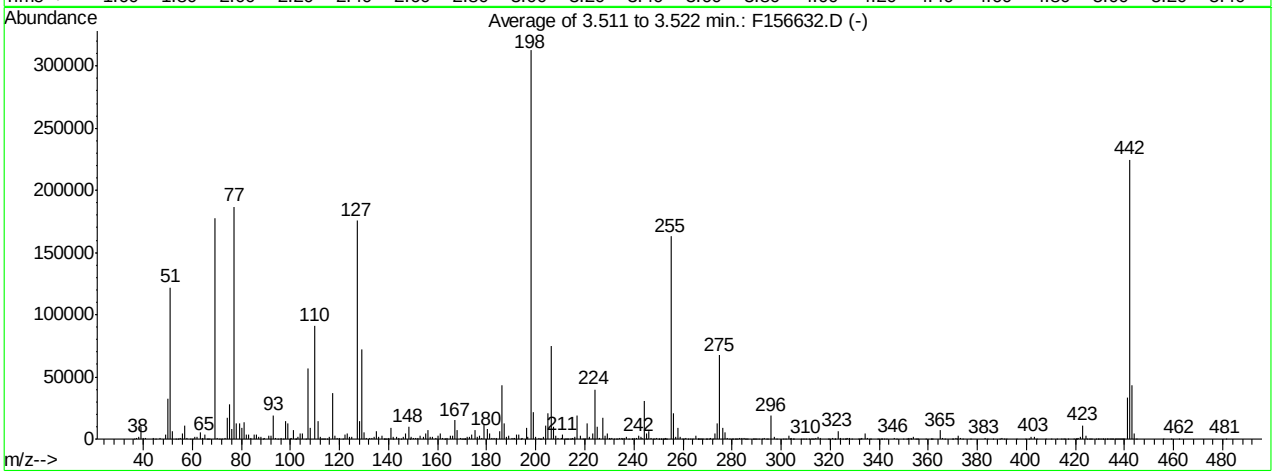
Ion	Exp%	Act%
235.00	100	0.00
237.00	66.70	0.00#
165.00	59.50	0.00#
0.00	0.00	0.00

F156088.D DFTPPF.M Tue Apr 05 18:13:03 2016 RT1

DFTPP

Data File : C:\MSDCHEM\1\DATA\EF6595\F156632.D Vial: 1
Acq On : 28 Apr 2016 8:23 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93412,ef6595 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 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	39.1	122104	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	56.9	177763	PASS
70	69	0.00	2	0.6	1029	PASS
127	198	40	60	56.2	175733	PASS
197	198	0.00	1	0.5	1428	PASS
198	198	100	100	100.0	312512	PASS
199	198	5	9	6.8	21234	PASS
275	198	10	30	21.6	67562	PASS
365	198	1	100	2.2	6835	PASS
441	443	0.10	100	76.7	33287	PASS
442	198	40	100	71.9	224656	PASS
443	442	17	23	19.3	43416	PASS

F156632.D DFTPPF.M Fri Apr 29 11:23:53 2016 RT1

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	37	51.10	122104	62.10	1841	73.10	1049
37.10	498	52.05	6439	63.10	5425	74.10	17549
38.00	1575	53.05	379	64.10	1081	75.10	28309
39.10	10173	54.20	21	65.10	3246	76.10	8558
40.10	726	55.10	853	66.00	324	77.10	187056
41.10	883	56.05	4221	66.40	59	78.10	12548
44.05	901	57.10	10888	67.10	250	79.10	12821
45.10	195	58.00	583	69.10	177763	80.05	9320
47.05	1258	59.20	140	70.10	1029	81.00	13326
49.10	3365	60.05	12	70.90	350	82.05	4036
50.10	32252	61.10	2231	71.95	295	83.00	4076

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
84.00	1034	95.00	195	104.05	4230	114.20	284
85.05	3325	96.00	824	105.00	4111	114.80	209
86.00	3381	97.10	184	106.00	447	116.00	2063
86.95	1409	98.00	14724	107.10	56754	117.05	36658
88.00	1561	99.05	12438	108.10	9054	118.05	2711
88.95	369	99.90	62	110.05	91042	119.05	630
89.15	552	100.15	648	111.05	14393	120.00	658
91.05	2579	101.05	7205	112.10	1408	121.15	249
92.00	3093	101.90	408	112.70	240	122.05	3454
93.05	19107	102.10	194	113.05	82	123.00	4805
94.00	1103	103.05	2055	113.70	94	124.00	2104

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
125.05	2205	137.10	2614	145.10	245	155.05	4439
127.05	175733	138.00	152	146.00	1839	156.00	7323
128.05	14180	138.20	282	147.05	4811	157.05	1795
129.00	71738	138.70	128	148.05	9873	158.00	1468
130.00	5272	139.20	154	148.90	48	159.05	1269
131.10	1143	140.10	953	149.10	1679	160.05	2983
132.10	517	141.05	8662	150.00	666	161.05	4349
133.10	705	141.90	413	151.00	1113	162.05	579
134.05	1840	142.05	1965	152.05	900	162.90	162
135.05	6248	143.05	2030	153.05	2752	163.10	439
136.05	2220	144.05	620	154.00	1699	163.95	510

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
165.00	3183	173.10	1540	184.05	1209	194.00	183
166.10	2734	174.05	3723	185.10	6307	194.25	928
167.05	15007	175.00	7189	186.10	43573	196.05	9006
168.05	7245	176.05	1974	187.10	12924	196.70	1428
169.10	855	177.05	3146	188.10	1596	198.00	312512
169.90	392	178.10	988	189.05	2872	199.00	21234
170.20	343	179.00	11890	190.15	946	200.05	1825
170.70	169	180.10	7795	191.00	997	201.35	1072
171.05	444	181.00	4270	191.20	531	201.75	414
171.30	70	182.20	1055	192.00	3494	202.10	402
172.15	1472	183.10	650	193.10	4062	203.05	2087

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
204.05	10930	213.05	130	220.95	13072	229.90	165
205.10	20721	214.00	161	221.70	1336	230.15	542
206.10	74872	214.70	67	221.95	1880	231.05	1369
207.05	9613	214.95	843	223.05	4623	232.10	317

208.10	2486	215.40	93	224.10	39893	232.70	132
209.10	1005	216.10	1806	225.10	10071	233.20	122
210.20	1244	217.00	18910	225.85	599	234.05	896
211.00	3414	218.00	2339	226.10	713	235.00	290
211.70	312	219.20	283	227.10	16914	235.15	1130
212.20	378	219.50	279	228.05	2343	236.00	1134
212.50	82	220.20	471	229.10	4252	237.10	1544

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
237.80	79	246.05	6150	252.60	364	260.95	522
239.00	143	246.95	950	252.90	161	262.20	78
239.25	405	247.90	65	253.10	1004	262.95	159
240.05	719	248.20	142	253.50	145	264.00	450
241.15	999	249.05	1292	255.05	163085	265.05	2902
242.05	2467	250.00	111	256.05	20674	266.00	55
243.00	1466	250.25	320	257.05	2121	266.30	223
243.20	1158	250.95	353	258.00	9376	266.80	192
244.10	31029	251.20	185	259.05	1600	267.10	7
245.00	462	252.00	95	259.85	264	267.70	101
245.15	4238	252.15	180	260.30	61	268.00	219

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.25	154	279.15	344	286.25	216	297.00	2053
269.85	233	279.80	89	288.75	266	298.15	366
270.80	163	280.10	52	289.10	60	301.00	269
271.05	654	281.05	75	289.50	64	301.90	332
272.00	265	281.70	96	290.00	356	303.05	2678
273.10	4261	282.10	277	291.05	379	303.80	63
274.05	12209	283.05	706	292.10	250	304.00	791
275.05	67562	284.15	528	293.05	1249	304.80	57
276.00	9209	285.00	821	294.00	202	305.20	53
277.00	5454	285.30	58	294.40	80	308.00	138
278.05	887	285.90	162	296.05	18738	309.20	142

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
310.05	393	321.90	166	331.95	389	341.90	218
311.20	75	322.10	330	332.25	184	343.00	129
312.10	70	323.10	6674	333.00	604	345.95	1248
312.80	85	324.15	1054	334.05	4831	347.10	63
313.20	76	325.00	243	335.10	1163	349.70	71
314.15	997	325.90	90	336.00	109	351.00	143
315.05	2177	326.30	103	336.30	51	351.70	123
316.10	940	327.00	1019	339.15	223	352.05	1239
319.10	58	328.05	519	339.85	104	352.90	86
319.70	104	328.90	162	340.85	269	353.05	764
321.10	625	331.30	61	341.10	467	354.05	1752

Average of 3.511 to 3.522 min.: F156632.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
355.00	355	370.10	78	390.00	693	412.20	77
355.20	169	371.10	669	391.10	290	414.00	56
355.80	127	371.90	357	392.00	61	414.90	97
359.10	73	372.05	2518	396.10	69	415.70	54
361.15	155	373.05	995	399.40	65	416.80	53
361.40	70	374.15	320	401.05	209	419.40	72
361.80	75	377.00	56	402.05	1503	420.00	79
365.00	6835	383.05	750	403.05	1950	420.20	66
365.95	1090	384.00	103	403.95	199	420.80	150
366.90	54	386.20	97	407.90	50	421.10	1052
369.80	50	389.10	102	410.00	58	422.05	1891

Average of 3.511 to 3.522 min.: F156632.D

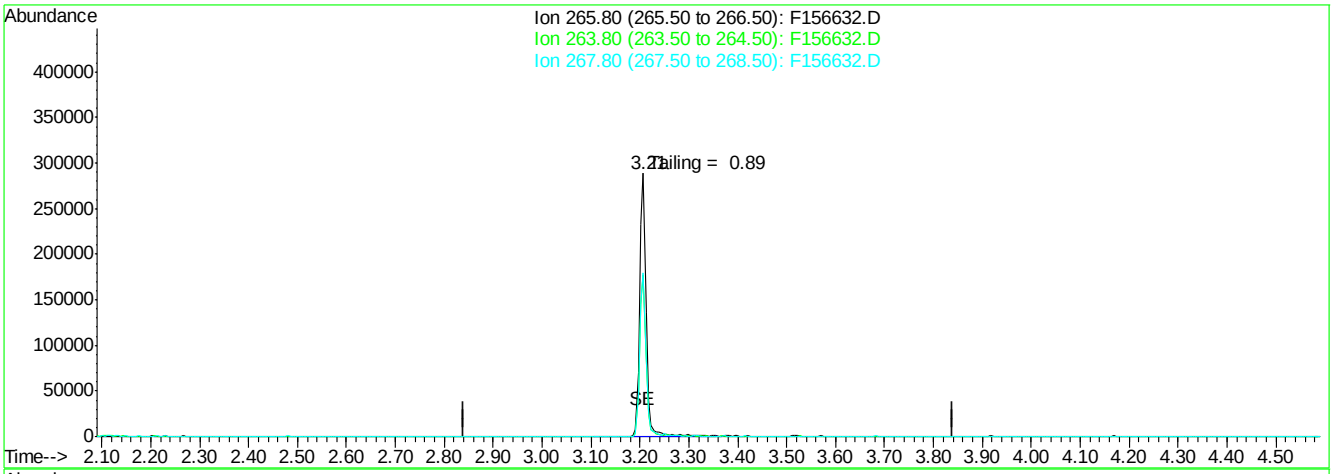
dftpp
Modified:subtracted

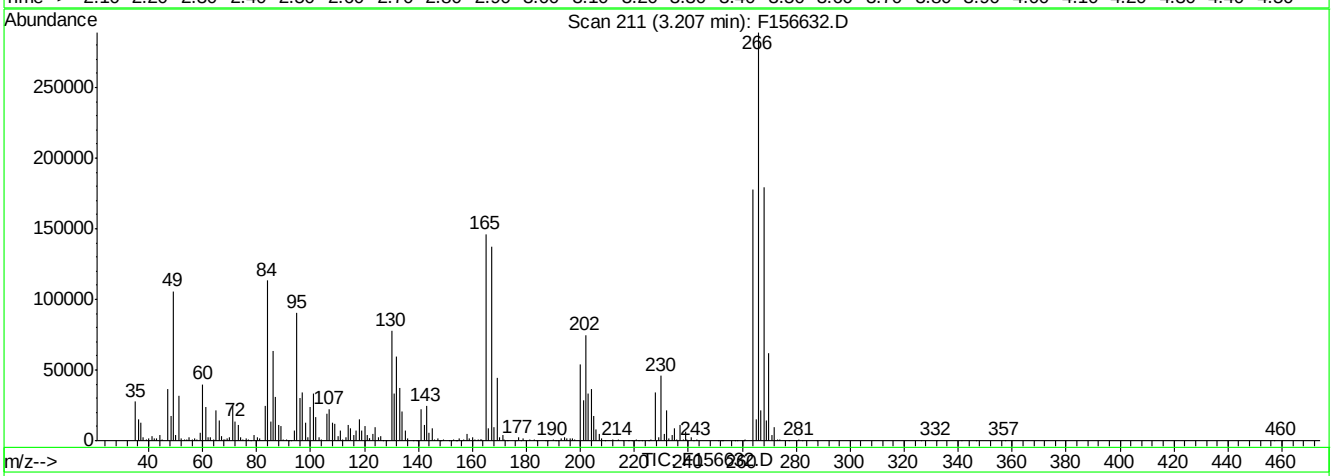
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.10	11181	431.30	101	437.45	434	455.90	55
424.05	2454	432.10	129	437.90	191	459.20	65
424.85	356	432.80	108	438.50	146	462.20	70
425.40	133	433.15	283	438.85	237	481.20	73
425.90	117	433.95	340	439.30	82		
426.50	68	434.20	139	439.60	113		
428.40	107	434.60	410	441.05	33287		
429.10	57	435.35	242	442.10	224656		
429.40	342	436.10	146	443.05	43416		
430.30	165	436.70	150	444.10	4371		
431.10	195	436.90	265	444.90	91		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156632.D Vial: 1
Acq On : 28 Apr 2016 8:23 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 20:29 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)

3.21min 141.20ppb

response 262488

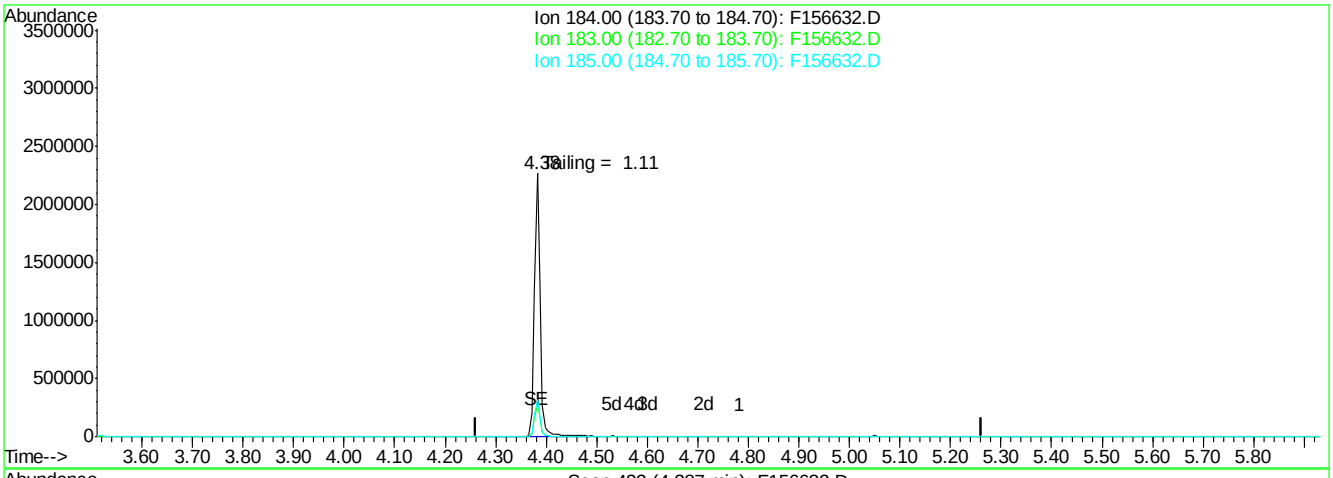
Ion	Exp%	Act%
265.80	100	100
263.80	63.00	61.44
267.80	64.80	62.09
0.00	0.00	0.00

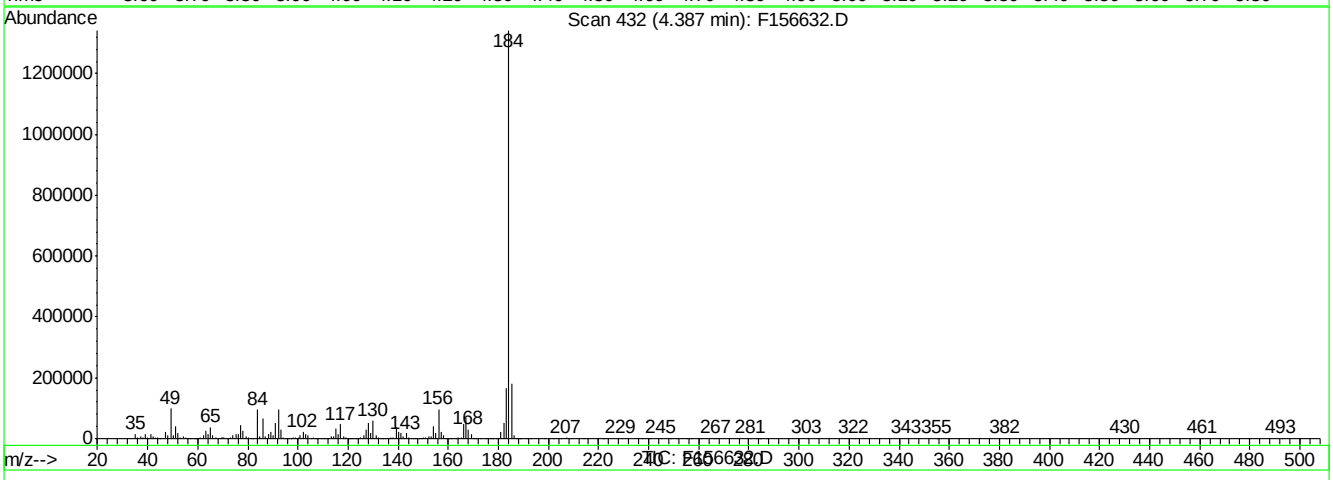
F156632.D DFTPPF.M Fri Apr 29 11:24:01 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156632.D Vial: 1
Acq On : 28 Apr 2016 8:23 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 20:29 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)

4.78min 0.06ppb

response 1162

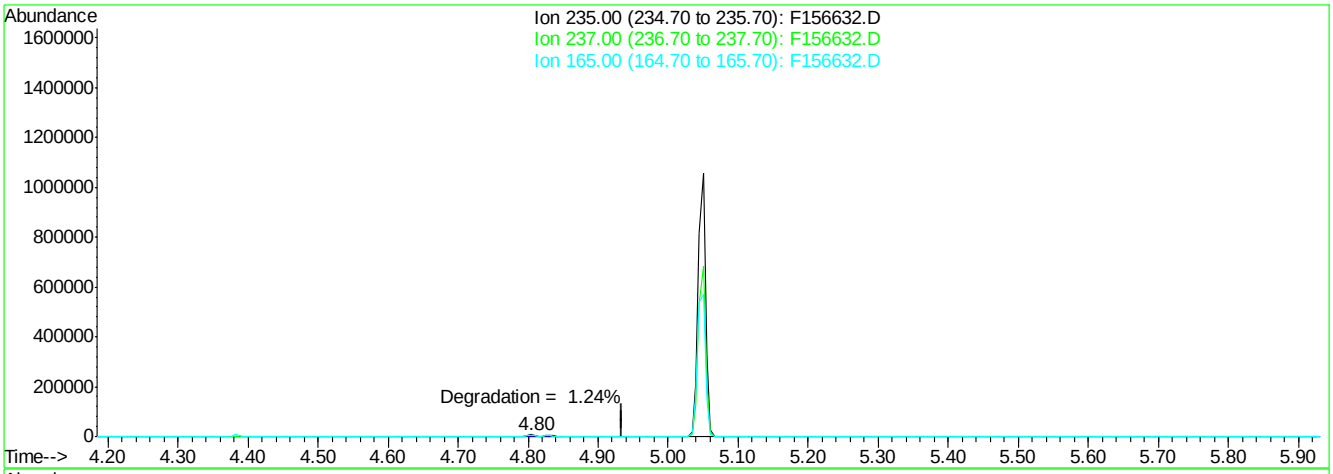
Ion	Exp%	Act%
184.00	100	100
183.00	12.60	0.00
185.00	16.20	0.00
0.00	0.00	0.00

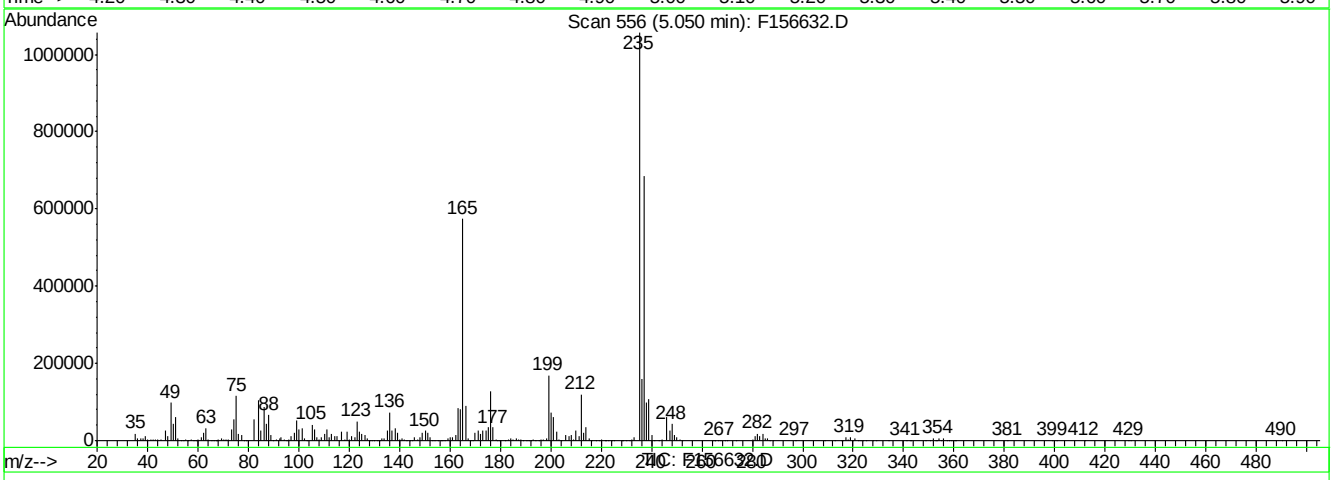
F156632.D DFTPPF.M Fri Apr 29 11:24:06 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156632.D Vial: 1
Acq On : 28 Apr 2016 8:23 pm Operator: juliusj
Sample : dftpp Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 28 20:29 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

F156632.D DFTPPF.M Fri Apr 29 11:24:12 2016 RT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	400870	4.00	ppm	0.00
14) Fluorene-d10	13.625	176	625702	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	1077133	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	871075	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	1020090	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	6.104	99	1710029	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	7.726	82	1614929	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
15) 2-Fluorobiphenyl	11.303	172	3472226	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	14.172	330	412126	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
28) Terphenyl-d14	18.647	244	3034780	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	20871	1.00	ppm	100
5) Phenol	6.128	94	465092	5.00	ppm	100
6) bis(2-Chloroethyl)ether	6.285	93	70869	1.00	ppm	100
8) Nitrobenzene	7.764	77	86151	1.00	ppm	100
9) Naphthalene	9.138	128	219827	1.00	ppm	100
10) Hexachlorobutadiene	9.421	225	40324	1.00	ppm	100
11) 2-Methylnaphthalene	10.517	141	120636	1.00	ppm	100
12) 1-Methylnaphthalene	10.702	141	140296	1.00	ppm	100
13) Hexachlorocyclopentadiene	10.846	237	70869	2.00	ppm	100
16) Acenaphthylene	12.293	152	240199	1.00	ppm	100
17) Acenaphthene	12.648	153	154130	1.00	ppm	100
18) 4,6-dinitro-2-methylph...	13.851	198	102012	5.00	ppm	100
19) Fluorene	13.682	166	186031	1.00	ppm	100
22) Hexachlorobenzene	14.783	284	51035	1.00	ppm	100
23) Pentachlorophenol	15.200	266	181848	5.00	ppm	100
24) Phenanthrene	15.602	178	268689	1.00	ppm	100
25) Anthracene	15.711	178	253406	1.00	ppm	100
26) Fluoranthene	17.874	202	309707	1.00	ppm	100
27) Pyrene	18.261	202	317795	1.00	ppm	100
29) Benzo[a]anthracene	20.346	228	287712	1.00	ppm	100
30) Chrysene	20.408	228	289281	1.00	ppm	100
32) Benzo[b]fluoranthene	22.015	252	292603	1.00	ppm	100
33) Benzo[k]fluoranthene	22.061	252	269694	0.99	ppm	100
34) Benzo[a]pyrene	22.463	252	265091	1.00	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.963	276	292264	1.00	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	233740	0.93	ppm	81
37) Benzo[g,h,i]perylene	24.358	276	248979	1.00	ppm	100

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration

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

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

7.6.1

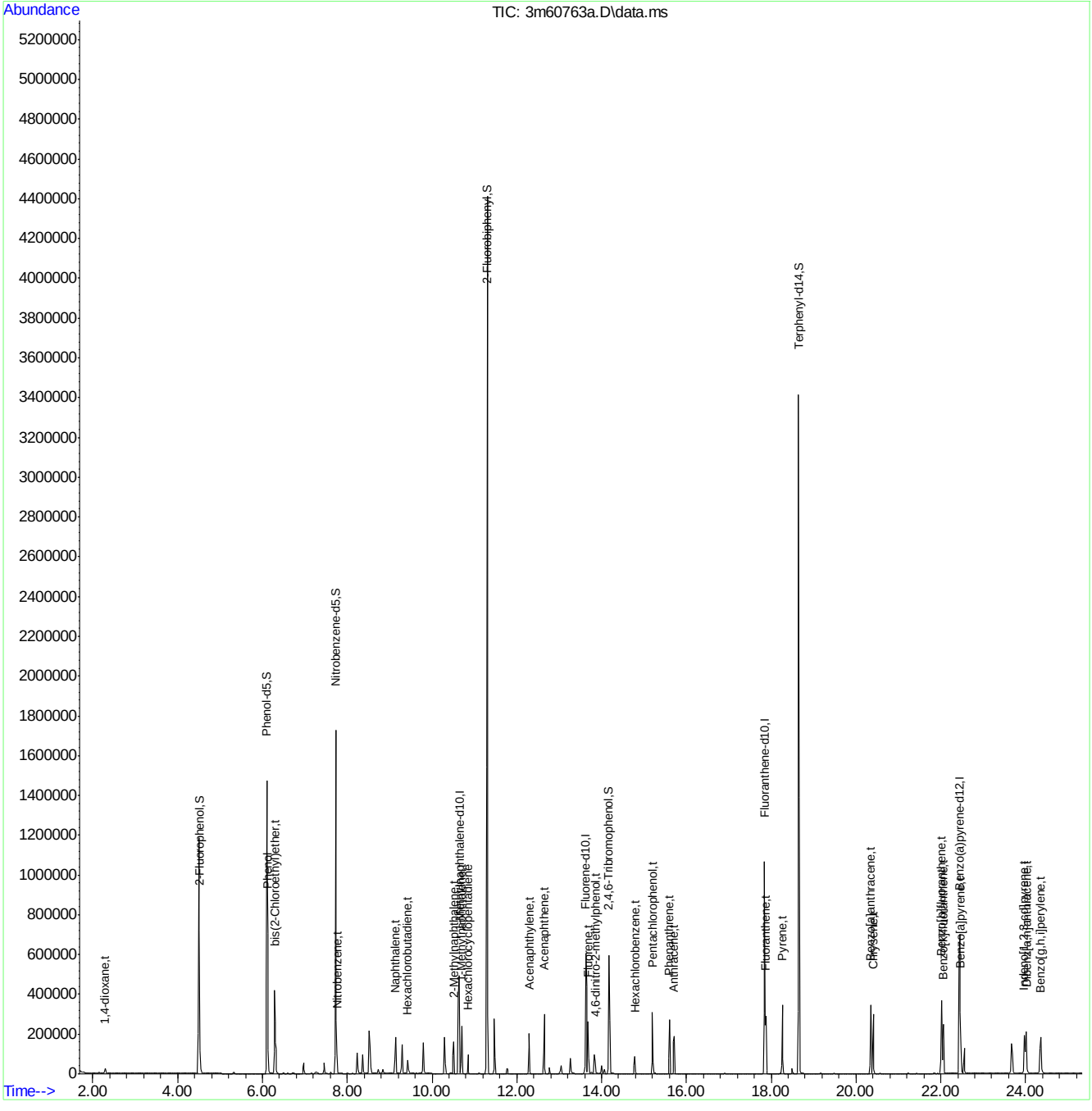
7

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60763a.D
Acq On : 21 Apr 2016 2:34 pm
Operator : linseyk
Sample : icc2855-1
Misc : op93052a,e3m2855
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 22 08:25:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:25:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.620	150	358247	4.00	ppm	-0.02
14) Fluorene-d10	13.625	176	572881	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	971465	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	803329	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	465758	10.22	ppm	0.00
Spiked Amount 50.000			Recovery = 20.44%			
4) Phenol-d5	6.104	99	786231	10.29	ppm	0.00
Spiked Amount 50.000			Recovery = 20.58%			
7) Nitrobenzene-d5	7.726	82	745253	10.33	ppm	0.00
Spiked Amount 50.000			Recovery = 20.66%			
15) 2-Fluorobiphenyl	11.303	172	1590025	10.00	ppm	0.00
Spiked Amount 50.000			Recovery = 20.00%			
20) 2,4,6-Tribromophenol	14.172	330	191850	10.17	ppm	0.00
Spiked Amount 50.000			Recovery = 20.34%			
28) Terphenyl-d14	18.647	244	1433884	10.48	ppm	0.00
Spiked Amount 50.000			Recovery = 20.96%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	9527	0.51	ppm	66
5) Phenol	6.116	94	208854	2.51	ppm #	64
6) bis(2-Chloroethyl)ether	6.285	93	31897	0.50	ppm	98
8) Nitrobenzene	7.764	77	37433	0.49	ppm	96
9) Naphthalene	9.138	128	98367	0.50	ppm	99
10) Hexachlorobutadiene	9.421	225	18124	0.50	ppm	97
11) 2-Methylnaphthalene	10.517	141	50870	0.47	ppm	97
12) 1-Methylnaphthalene	10.702	141	62617	0.50	ppm	98
13) Hexachlorocyclopentadiene	10.845	237	29084	0.92	ppm	100
16) Acenaphthylene	12.293	152	105827	0.48	ppm	99
17) Acenaphthene	12.648	153	67805	0.48	ppm	97
18) 4,6-dinitro-2-methylph...	13.851	198	30000	1.61	ppm	98
19) Fluorene	13.682	166	81831	0.48	ppm	98
22) Hexachlorobenzene	14.783	284	23082	0.50	ppm	99
23) Pentachlorophenol	15.200	266	74585	2.27	ppm	96
24) Phenanthrene	15.602	178	120971	0.50	ppm	98
25) Anthracene	15.695	178	110700	0.48	ppm	87
26) Fluoranthene	17.874	202	132546	0.47	ppm	98
27) Pyrene	18.261	202	140572	0.49	ppm	100
29) Benzo[a]anthracene	20.346	228	124954	0.48	ppm	99
30) Chrysene	20.408	228	123107	0.47	ppm	98
32) Benzo[b]fluoranthene	22.015	252	128656	0.48	ppm	98
33) Benzo[k]fluoranthene	22.061	252	114388	0.46	ppm	97
34) Benzo[a]pyrene	22.463	252	116726	0.48	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	127053	0.47	ppm	99
36) Dibenz[a,h]anthracene	24.020	278	97979	0.45	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	108758	0.47	ppm	99

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration

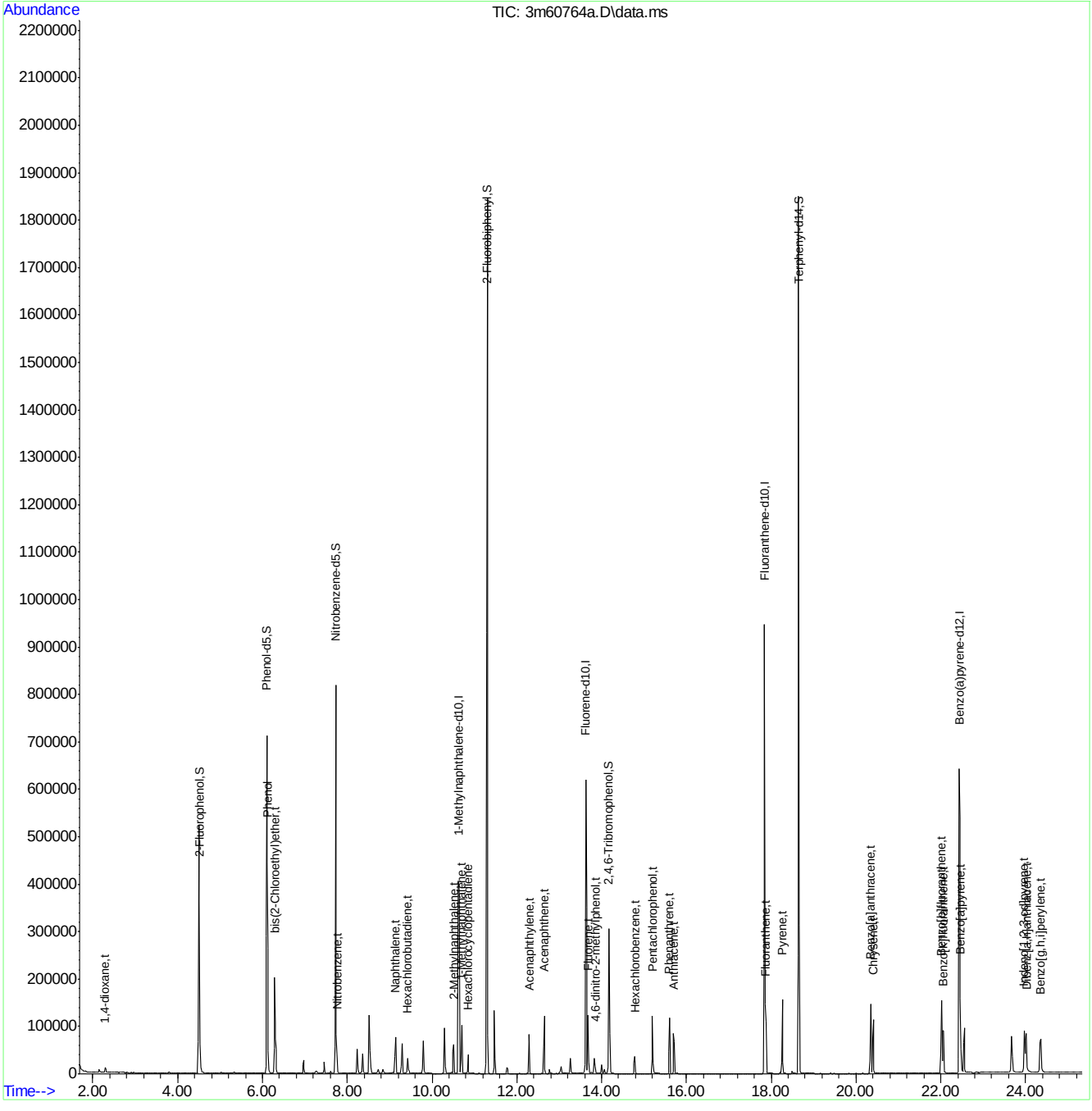
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60764a.D
Acq On : 21 Apr 2016 3:07 pm
Operator : linseyk
Sample : ic2855-0.5
Misc : op93052a,e3m2855
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 08:26:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.641	150	350963	4.00 ppm	0.02
14) Fluorene-d10	13.625	176	541559	4.00 ppm	0.00
21) Fluoranthene-d10	17.844	212	945802	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	762324	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.515	112	182333	4.04 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.08%	
4) Phenol-d5	6.104	99	309088	4.07 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.14%	
7) Nitrobenzene-d5	7.726	82	282457	3.93 ppm	0.00
Spiked Amount 50.000			Recovery	= 7.86%	
15) 2-Fluorobiphenyl	11.303	172	631033	4.20 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.40%	
20) 2,4,6-Tribromophenol	14.172	330	70258	3.91 ppm	0.00
Spiked Amount 50.000			Recovery	= 7.82%	
28) Terphenyl-d14	18.647	244	584275	4.28 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.56%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.290	88	3559	0.19 ppm #	20
5) Phenol	6.116	94	80728	0.99 ppm #	72
6) bis(2-Chloroethyl)ether	6.285	93	12510	0.20 ppm	96
8) Nitrobenzene	7.764	77	14471	0.19 ppm	100
9) Naphthalene	9.139	128	39500	0.21 ppm	99
10) Hexachlorobutadiene	9.421	225	7119	0.20 ppm	100
11) 2-Methylnaphthalene	10.517	141	20355	0.20 ppm	100
12) 1-Methylnaphthalene	10.702	141	25492	0.21 ppm	98
13) Hexachlorocyclopentadiene	10.846	237	9938	0.33 ppm	99
16) Acenaphthylene	12.293	152	39006	0.19 ppm	99
17) Acenaphthene	12.648	153	26171	0.20 ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	7553	0.52 ppm	92
19) Fluorene	13.682	166	31388	0.20 ppm	99
22) Hexachlorobenzene	14.783	284	8969	0.20 ppm	98
23) Pentachlorophenol	15.200	266	23466	0.77 ppm	99
24) Phenanthrene	15.602	178	45498	0.19 ppm	100
25) Anthracene	15.711	178	40800	0.19 ppm	99
26) Fluoranthene	17.874	202	52573	0.20 ppm	99
27) Pyrene	18.261	202	52427	0.19 ppm	99
29) Benzo[a]anthracene	20.347	228	46665	0.19 ppm	99
30) Chrysene	20.408	228	48799	0.20 ppm	99
32) Benzo[b]fluoranthene	22.015	252	49094	0.20 ppm	98
33) Benzo[k]fluoranthene	22.062	252	44557	0.20 ppm	99
34) Benzo[a]pyrene	22.463	252	44223	0.20 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	49013	0.20 ppm	100
36) Dibenz[a,h]anthracene	24.020	278	39930	0.20 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	41535	0.20 ppm	100

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration

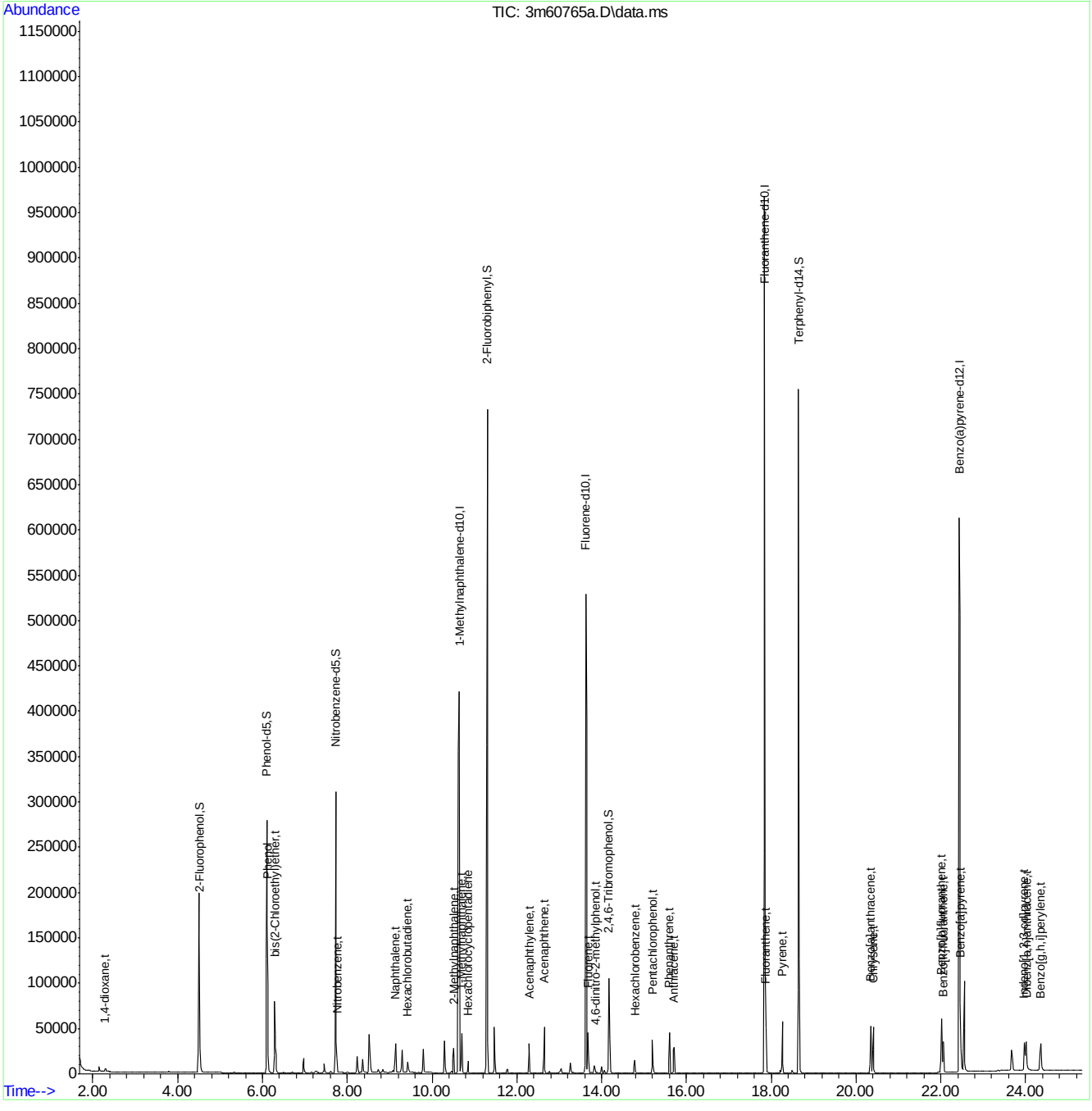
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60765a.D
Acq On : 21 Apr 2016 3:39 pm
Operator : linseyk
Sample : ic2855-0.2
Misc : op93052a,e3m2855
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 22 08:26:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:26:46 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:27:14 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	340968	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	502575	4.00	ppm	0.02
21) Fluoranthene-d10	17.844	212	887342	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	703545	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	86528	1.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.94%	
4) Phenol-d5	6.104	99	144256	1.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.88%	
7) Nitrobenzene-d5	7.726	82	129224	1.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
15) 2-Fluorobiphenyl	11.303	172	294276	2.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.16%	
20) 2,4,6-Tribromophenol	14.172	330	28910	1.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.50%	
28) Terphenyl-d14	18.647	244	266058	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	1953	0.11	ppm	93
5) Phenol	6.116	94	38102	0.48	ppm #	73
6) bis(2-Chloroethyl)ether	6.285	93	5932	0.10	ppm	92
8) Nitrobenzene	7.764	77	6815	0.10	ppm	96
9) Naphthalene	9.139	128	19053	0.10	ppm	99
10) Hexachlorobutadiene	9.421	225	3313	0.10	ppm	99
11) 2-Methylnaphthalene	10.517	141	9659	0.10	ppm	97
12) 1-Methylnaphthalene	10.702	141	12284	0.10	ppm	94
13) Hexachlorocyclopentadiene	10.846	237	4166	0.15	ppm	100
16) Acenaphthylene	12.293	152	17405	0.09	ppm	100
17) Acenaphthene	12.648	153	11953	0.10	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	2417	0.21	ppm	96
19) Fluorene	13.682	166	14084	0.10	ppm	100
22) Hexachlorobenzene	14.783	284	4120	0.10	ppm	99
23) Pentachlorophenol	15.201	266	9313	0.35	ppm	100
24) Phenanthrene	15.602	178	20817	0.10	ppm	100
25) Anthracene	15.711	178	17457	0.09	ppm	100
26) Fluoranthene	17.874	202	24361	0.10	ppm	99
27) Pyrene	18.261	202	23618	0.09	ppm	99
29) Benzo[a]anthracene	20.347	228	21304	0.09	ppm	99
30) Chrysene	20.408	228	22498	0.10	ppm	99
32) Benzo[b]fluoranthene	22.015	252	22115	0.10	ppm	99
33) Benzo[k]fluoranthene	22.062	252	22174	0.11	ppm	99
34) Benzo[a]pyrene	22.463	252	19014	0.09	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	22099	0.10	ppm	98
36) Dibenz[a,h]anthracene	24.020	278	18120	0.10	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	19184	0.10	ppm	99

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration

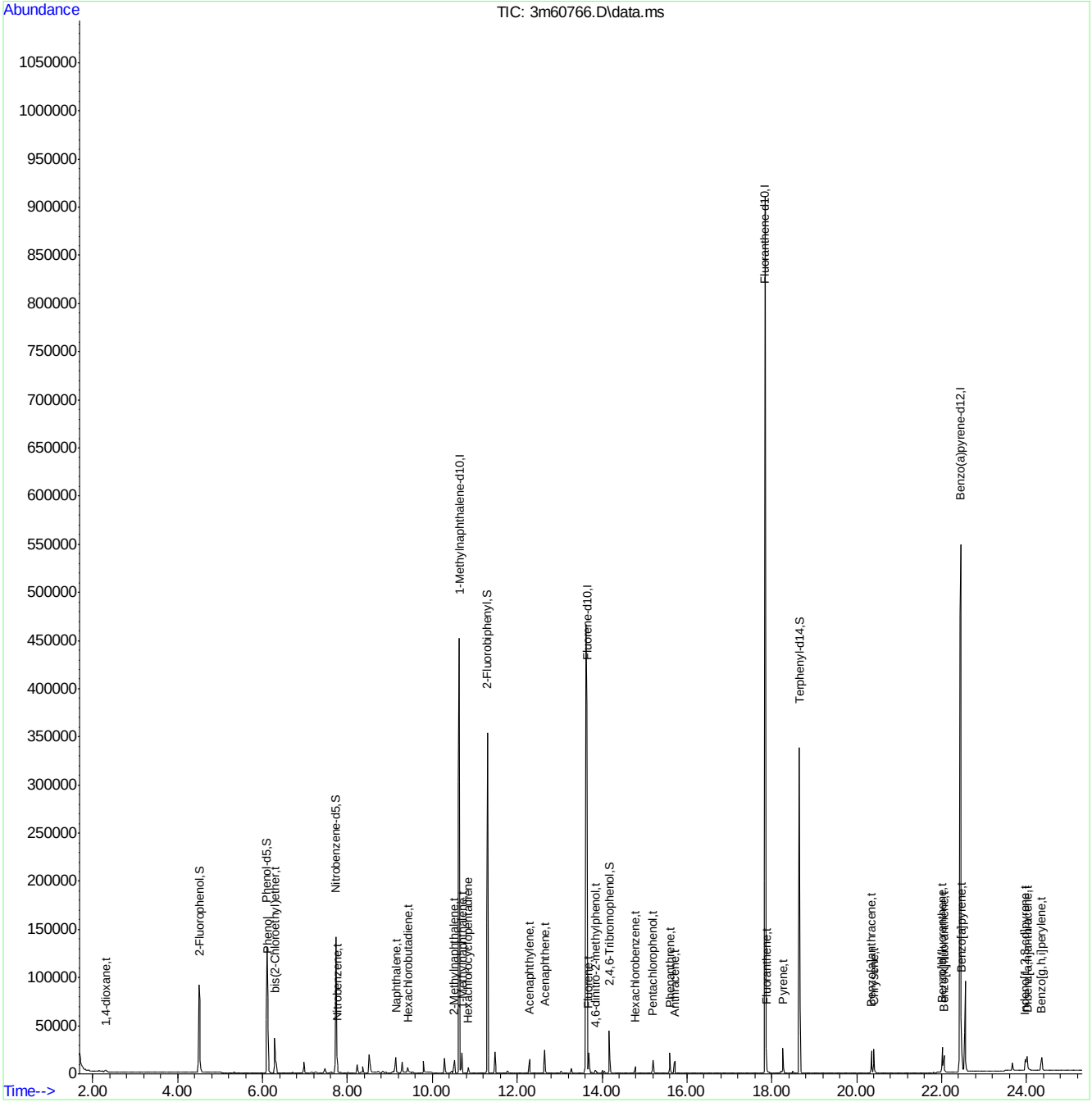
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60766.D
Acq On : 21 Apr 2016 4:12 pm
Operator : linseyk
Sample : ic2855-0.1
Misc : op93052a,e3m2855
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 22 08:27:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:27:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	339033	4.00	ppm	0.00
14) Fluorene-d10	13.626	176	520555	4.00	ppm	-0.02
21) Fluoranthene-d10	17.844	212	888983	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	706519	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	42704	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
4) Phenol-d5	6.104	99	70262	1.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.00%	
7) Nitrobenzene-d5	7.726	82	63026	0.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.94%	
15) 2-Fluorobiphenyl	11.303	172	145045	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
20) 2,4,6-Tribromophenol	14.172	330	13489	0.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
28) Terphenyl-d14	18.647	244	135801	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	1056	0.06	ppm	90
5) Phenol	6.116	94	18706	0.25	ppm #	73
6) bis(2-Chloroethyl)ether	6.285	93	3013	0.05	ppm	88
8) Nitrobenzene	7.764	77	3438	0.05	ppm	92
9) Naphthalene	9.139	128	9285	0.05	ppm	99
10) Hexachlorobutadiene	9.421	225	1685	0.05	ppm	99
11) 2-Methylnaphthalene	10.518	141	4767	0.05	ppm	96
12) 1-Methylnaphthalene	10.702	141	6629	0.05	ppm	95
13) Hexachlorocyclopentadiene	10.846	237	2049	0.08	ppm	97
16) Acenaphthylene	12.293	152	8346	0.05	ppm	99
17) Acenaphthene	12.648	153	5946	0.05	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	948	0.07	ppm	91
19) Fluorene	13.682	166	7106	0.05	ppm	100
22) Hexachlorobenzene	14.783	284	2065	0.05	ppm	96
23) Pentachlorophenol	15.201	266	4271	0.17	ppm	98
24) Phenanthrene	15.603	178	10238	0.05	ppm	99
25) Anthracene	15.711	178	8587	0.04	ppm	98
26) Fluoranthene	17.875	202	12772	0.05	ppm	99
27) Pyrene	18.261	202	11982	0.05	ppm	98
29) Benzo[a]anthracene	20.347	228	11591	0.05	ppm	100
30) Chrysene	20.408	228	11884	0.05	ppm	99
32) Benzo[b]fluoranthene	22.015	252	11635	0.04	ppm	99
33) Benzo[k]fluoranthene	22.062	252	11007	0.05	ppm	100
34) Benzo[a]pyrene	22.463	252	12936	0.06	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.963	276	10547	0.05	ppm	100
36) Dibenz[a,h]anthracene	24.020	278	8444	0.05	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	9475	0.05	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration

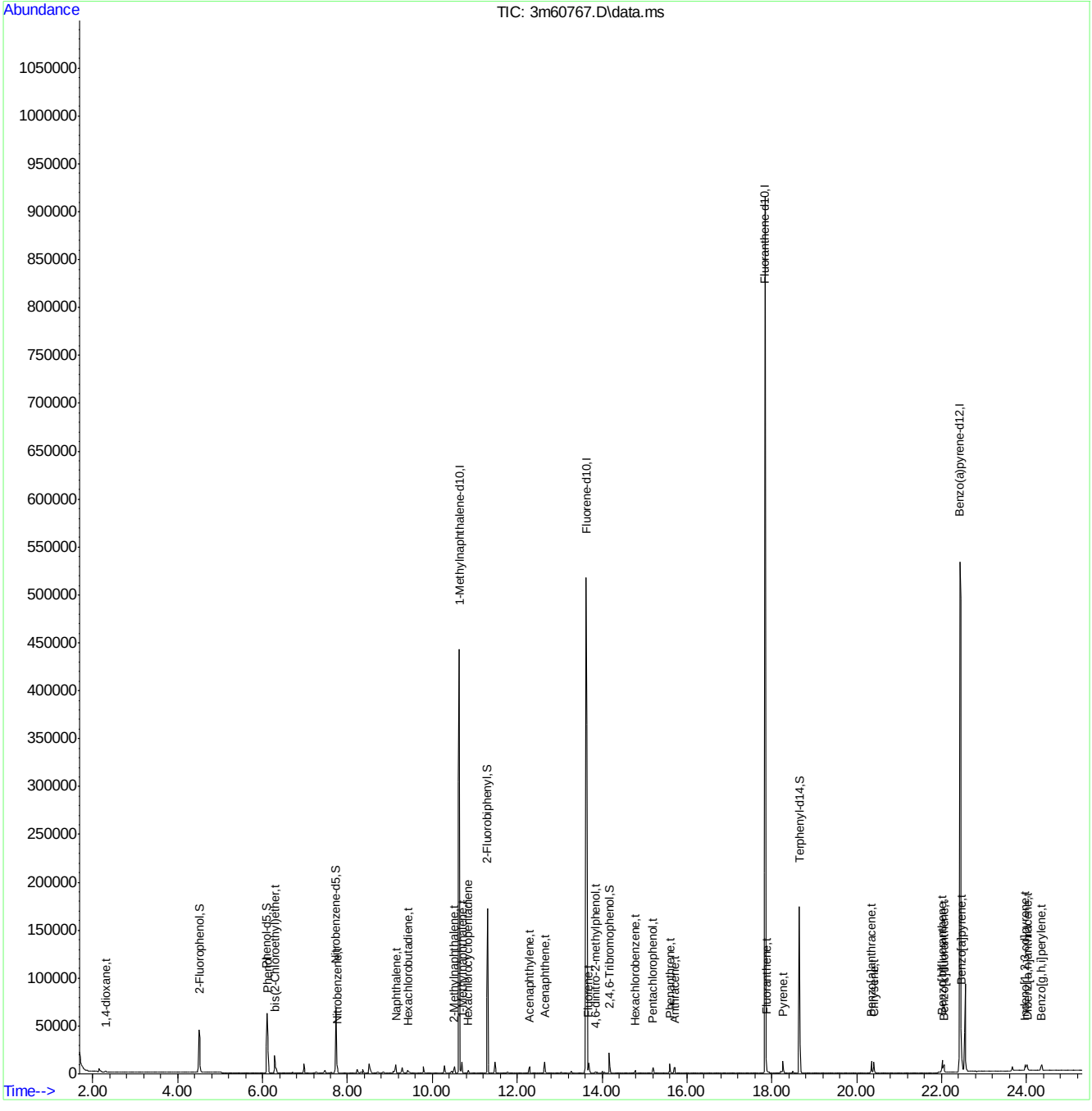
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60767.D
Acq On : 21 Apr 2016 4:44 pm
Operator : linseyk
Sample : ic2855-0.05
Misc : op93052a,e3m2855
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 22 08:34:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:32:39 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	345303	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	525823	4.00	ppm	0.02
21) Fluoranthene-d10	17.843	212	917656	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	713000	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	17018	0.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.78%	
4) Phenol-d5	6.104	99	28195	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
7) Nitrobenzene-d5	7.726	82	25103	0.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.74%	
15) 2-Fluorobiphenyl	11.303	172	57726	0.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.78%	
20) 2,4,6-Tribromophenol	14.172	330	4756	0.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.56%	
28) Terphenyl-d14	18.647	244	56137	0.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.82%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.305	88	245m	0.01	ppm	
5) Phenol	6.116	94	7474	0.09	ppm #	72
6) bis(2-Chloroethyl)ether	6.285	93	1201	0.02	ppm	90
8) Nitrobenzene	7.764	77	1406	0.02	ppm	86
9) Naphthalene	9.138	128	3866	0.02	ppm	100
10) Hexachlorobutadiene	9.421	225	661	0.02	ppm	97
11) 2-Methylnaphthalene	10.517	141	1996	0.02	ppm	93
12) 1-Methylnaphthalene	10.702	141	3332	0.03	ppm	91
13) Hexachlorocyclopentadiene	10.846	237	791	0.03	ppm	99
16) Acenaphthylene	12.293	152	3367	0.02	ppm	98
17) Acenaphthene	12.648	153	2382	0.02	ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	336	0.03	ppm	95
19) Fluorene	13.682	166	2916	0.02	ppm	97
22) Hexachlorobenzene	14.783	284	860	0.02	ppm	95
23) Pentachlorophenol	15.200	266	1647	0.07	ppm	97
24) Phenanthrene	15.602	178	4501	0.02	ppm	99
25) Anthracene	15.711	178	3476	0.02	ppm	96
26) Fluoranthene	17.874	202	6605	0.03	ppm	99
27) Pyrene	18.261	202	5085	0.02	ppm	97
29) Benzo[a]anthracene	20.346	228	5580	0.02	ppm	99
30) Chrysene	20.408	228	6534	0.03	ppm	99
32) Benzo[b]fluoranthene	22.015	252	5729	0.02	ppm	96
33) Benzo[k]fluoranthene	22.061	252	5167	0.02	ppm	95
34) Benzo[a]pyrene	22.463	252	4349m	0.02	ppm	
35) Indeno[1,2,3-cd]pyrene	23.963	276	4283	0.02	ppm	99
36) Dibenz[a,h]anthracene	24.020	278	3214	0.02	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	3711	0.02	ppm	99

7.6.6
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration

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

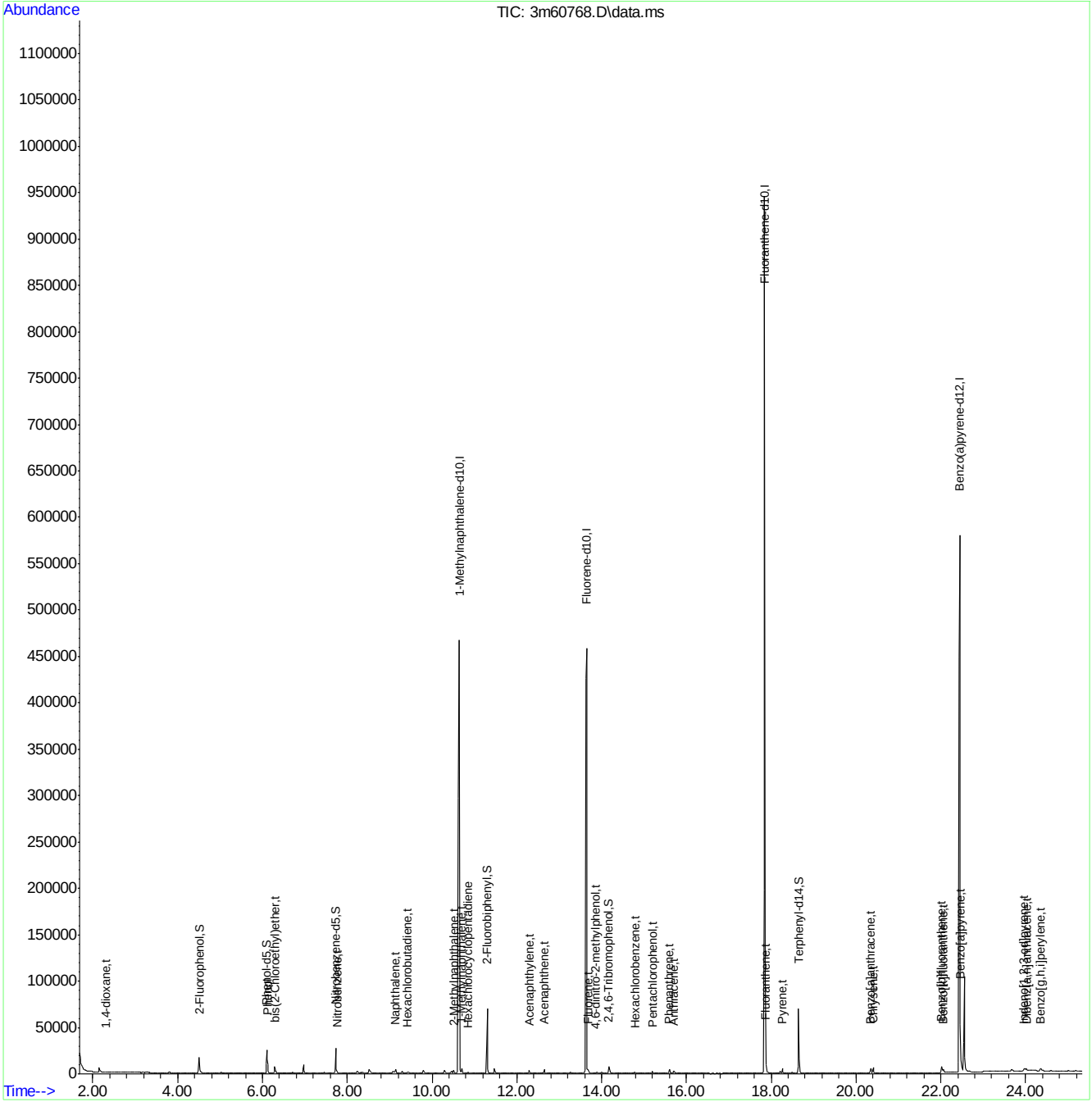
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:29:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Manual Integration Approval Summary

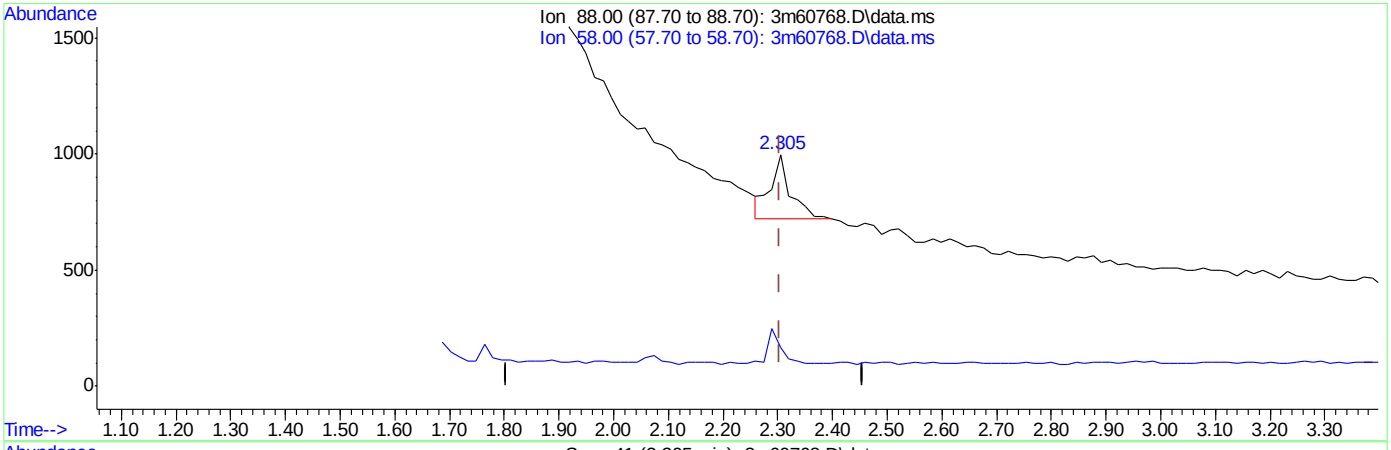
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60768.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:17	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

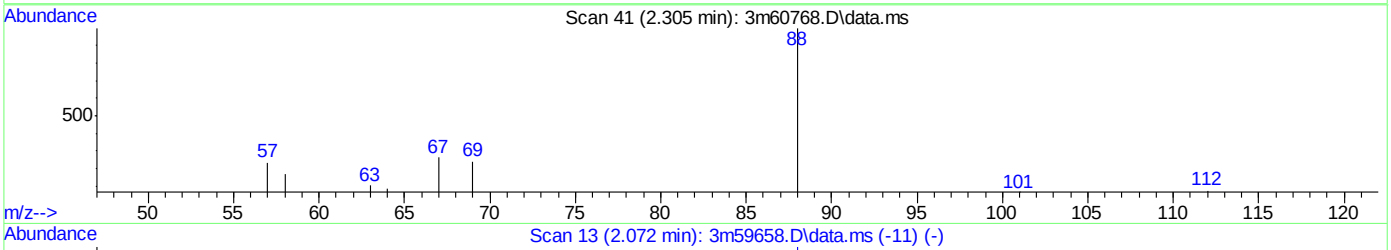
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.30	Baseline ripple
Benzo(a)pyrene	50-32-8		22.46	Baseline ripple

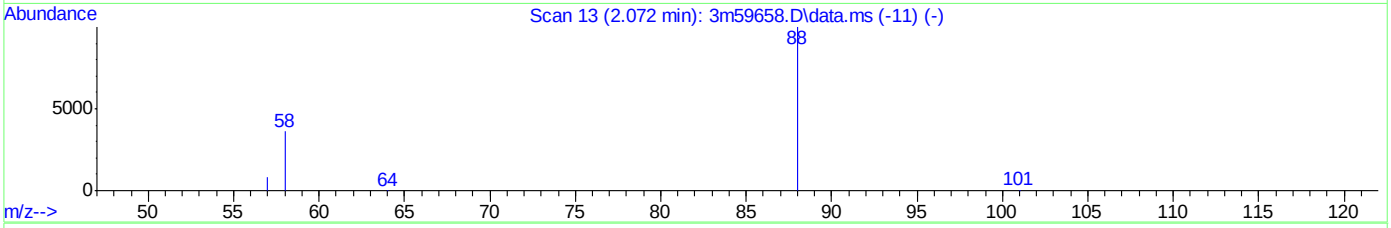
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(2) 1,4-dioxane (t)

2.305min (-0.000) 0.04ppm

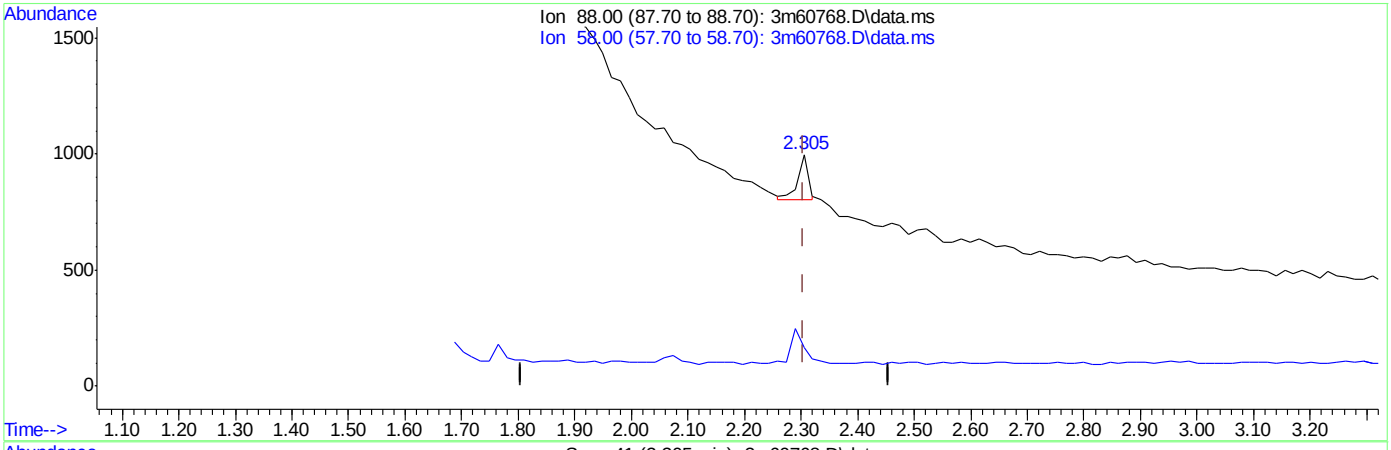
response 710

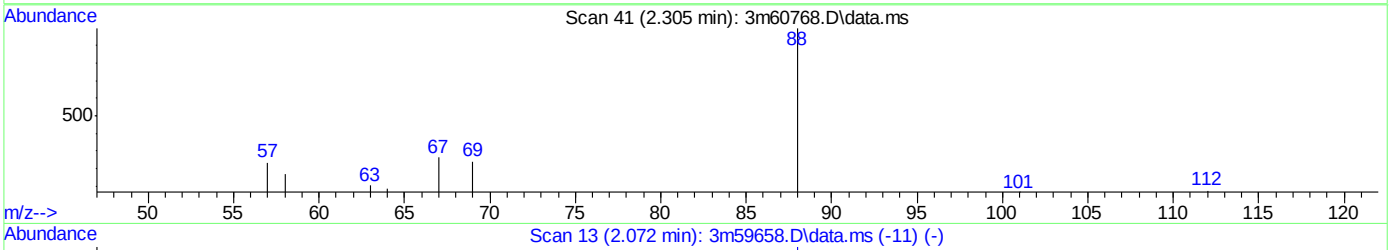
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	28.23
0.00	0.00	0.00
0.00	0.00	0.00

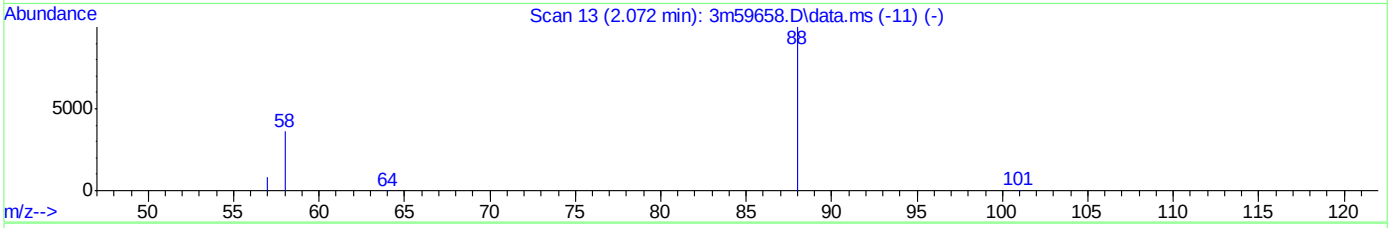
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(2) 1,4-dioxane (t)

2.305min (-0.000) 0.01ppm m

response 245

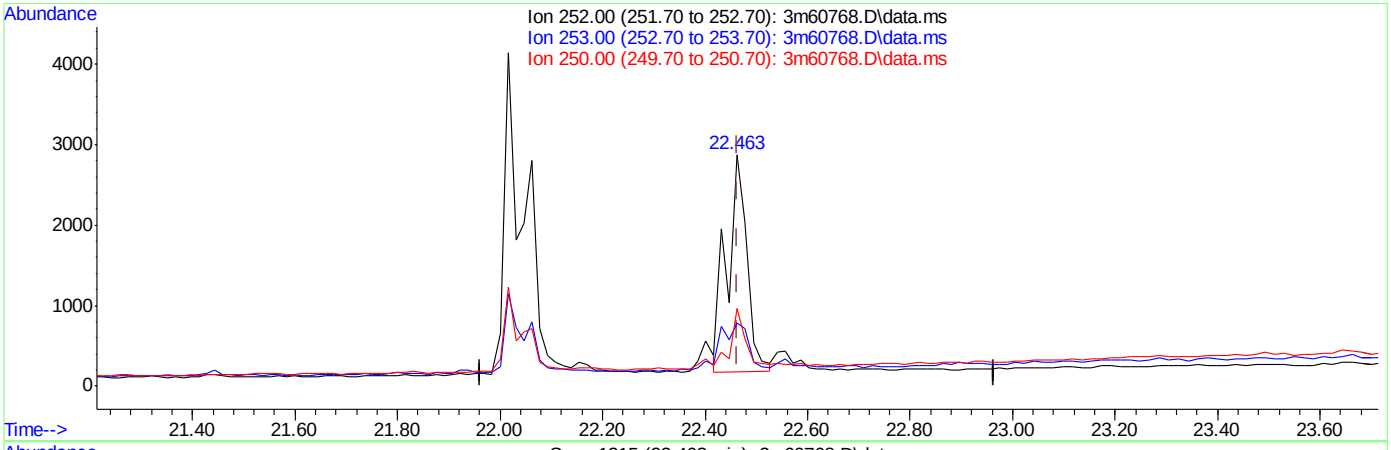
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	16.63
0.00	0.00	0.00
0.00	0.00	0.00

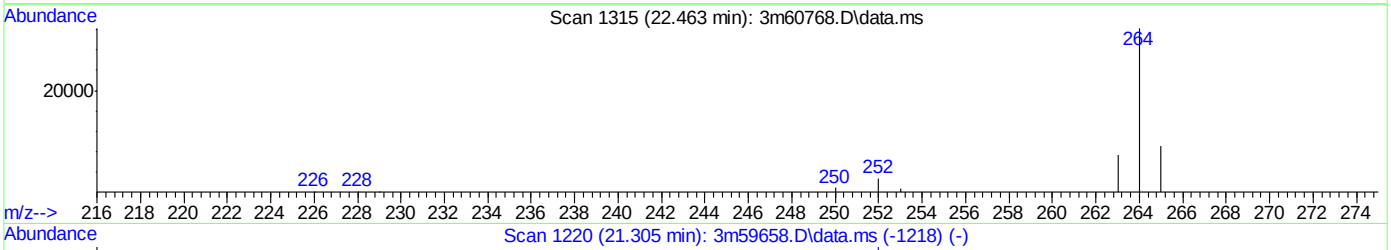
SGS ACCUTEST JC19214

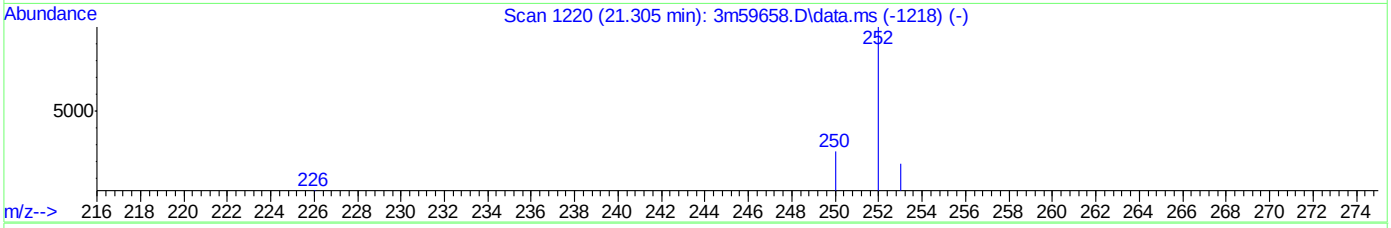
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration







TIC: 3m60768.D\data.ms

(34) Benzo[a]pyrene (t)

22.463min (-0.000) 0.03ppm

response 7218

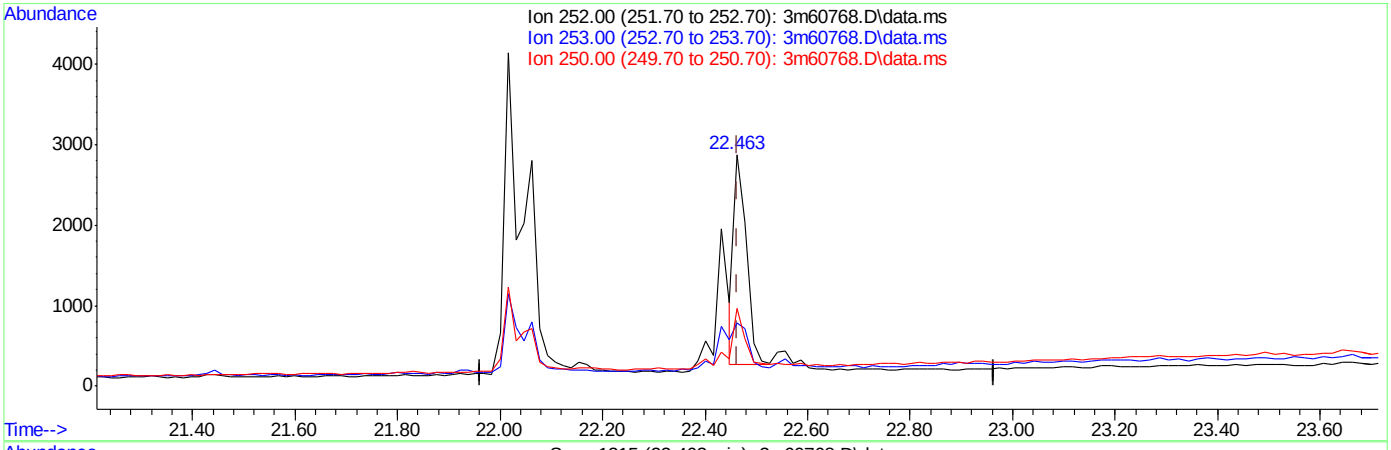
Ion	Exp%	Act%
252.00	100	100
253.00	18.80	20.93
250.00	26.10	27.47
0.00	0.00	0.00

SGS ACCUTEST JC19214

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60768.D
Acq On : 21 Apr 2016 5:17 pm
Operator : linseyk
Sample : ic2855-0.02
Misc : op93052a,e3m2855
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 22 08:28:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:28:25 2016
Response via : Initial Calibration



TIC: 3m60768.D\data.ms

(34) Benzo[a]pyrene (t)

22.463min (-0.000) 0.02ppm m

response 4349

Ion	Exp%	Act%
252.00	100	100
253.00	18.80	27.27
250.00	26.10	33.41
0.00	0.00	0.00

SGS ACCUTEST JC19214

3M60769.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya 04/22/16 12:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	341727	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	510798	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	894999	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	717706	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.515	112	7703	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
4) Phenol-d5	6.104	99	12728	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
7) Nitrobenzene-d5	7.726	82	11420	0.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.34%	
15) 2-Fluorobiphenyl	11.303	172	27514	0.19 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.38%	
20) 2,4,6-Tribromophenol	14.172	330	2174	0.13 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.26%	
28) Terphenyl-d14	18.647	244	28577	0.21 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.42%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.305	88	176m	0.01 ppm	
5) Phenol	6.116	94	3362	0.04 ppm	# 69
6) bis(2-Chloroethyl)ether	6.285	93	566	0.01 ppm	89
8) Nitrobenzene	7.764	77	712	0.01 ppm	83
9) Naphthalene	9.139	128	1910	0.01 ppm	98
10) Hexachlorobutadiene	9.421	225	308	0.01 ppm	98
11) 2-Methylnaphthalene	10.517	141	971	0.01 ppm	94
12) 1-Methylnaphthalene	10.702	141	1726	0.01 ppm	95
13) Hexachlorocyclopentadiene	10.846	237	382	0.02 ppm	97
16) Acenaphthylene	12.293	152	1639	0.01 ppm	99
17) Acenaphthene	12.648	153	1117	0.01 ppm	98
18) 4,6-dinitro-2-methylph...	13.852	198	146	0.01 ppm	70
19) Fluorene	13.682	166	1465	0.01 ppm	99
22) Hexachlorobenzene	14.783	284	417	0.01 ppm	95
23) Pentachlorophenol	15.200	266	877	0.04 ppm	98
24) Phenanthrene	15.602	178	2267	0.01 ppm	98
25) Anthracene	15.711	178	1713	0.01 ppm	97
26) Fluoranthene	17.874	202	4045	0.02 ppm	99
27) Pyrene	18.261	202	2880	0.01 ppm	98
29) Benzo[a]anthracene	20.347	228	3441	0.02 ppm	98
30) Chrysene	20.408	228	4214	0.02 ppm	97
32) Benzo[b]fluoranthene	22.015	252	4562	0.02 ppm	88
33) Benzo[k]fluoranthene	22.062	252	1997	0.01 ppm	94
34) Benzo[a]pyrene	22.463	252	2699	0.01 ppm	86
35) Indeno[1,2,3-cd]pyrene	23.963	276	2125	0.01 ppm	100
36) Dibenz[a,h]anthracene	24.020	278	2112	0.01 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1927	0.01 ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration

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

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

7.6.7

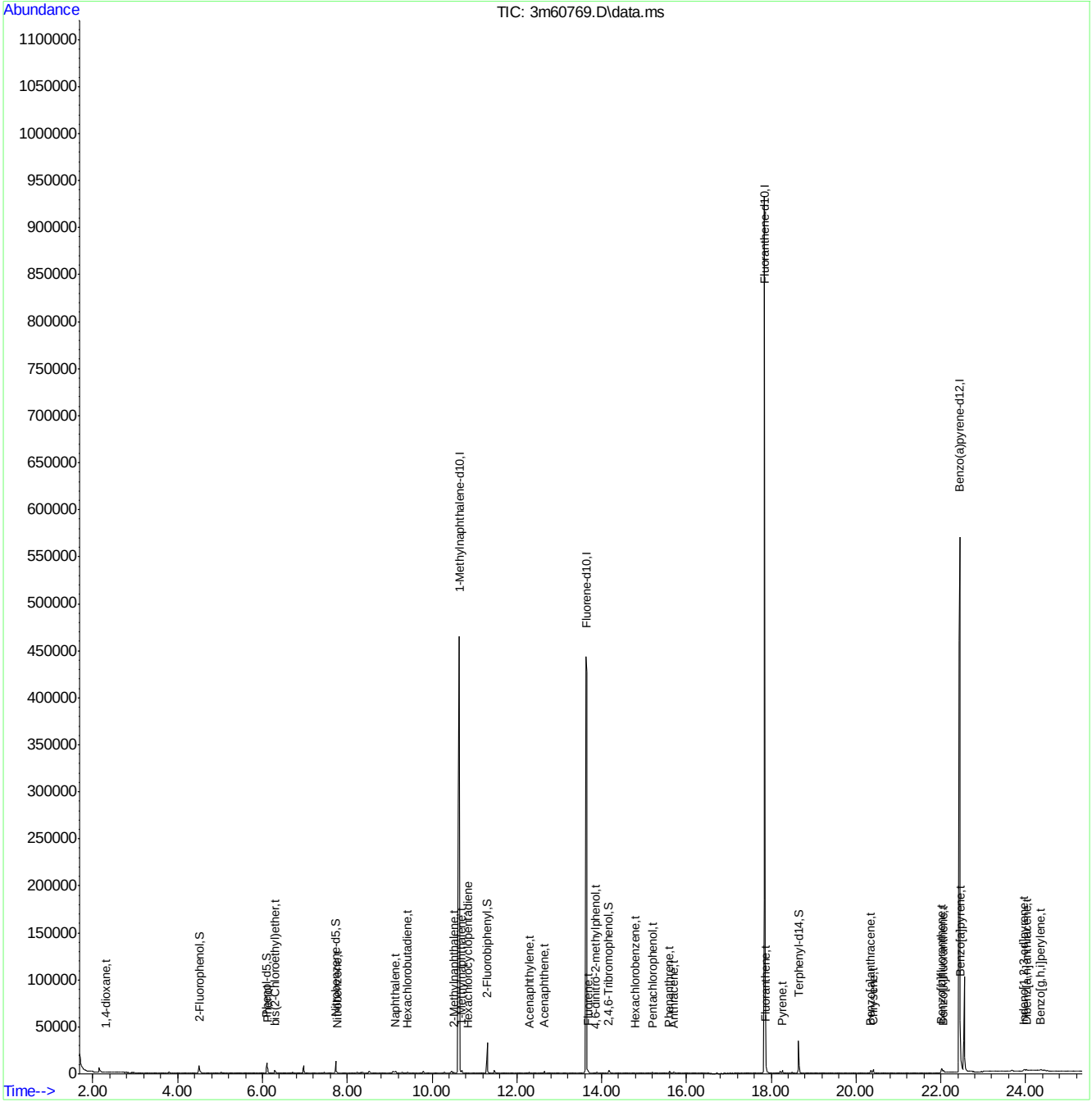
7

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Manual Integration Approval Summary

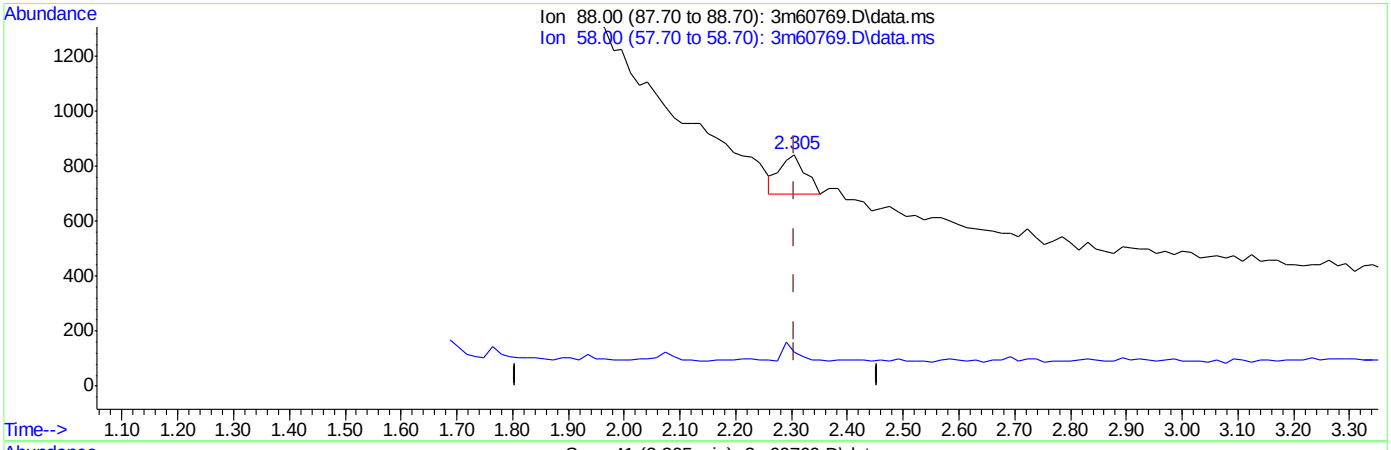
Sample Number:	E3M2855-IC2855	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M60769.D	**Analyst approved:**	04/22/16 09:15 Linsey Kirschmann
Injection Time:	04/21/16 17:49	**Supervisor approved:**	04/22/16 12:27 Nina Pandya

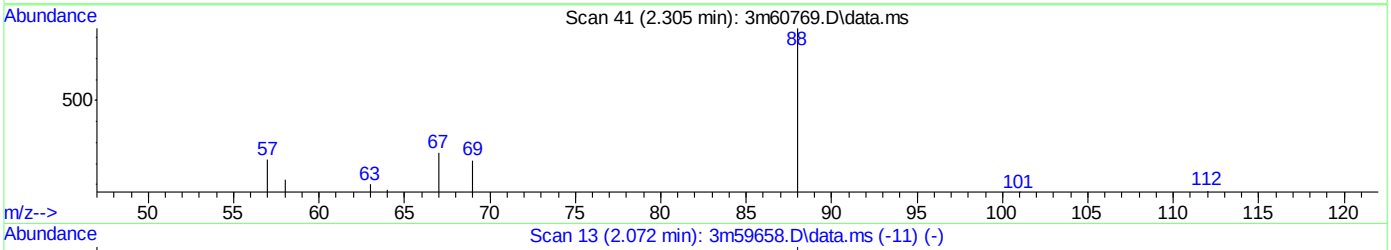
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.31	Baseline ripple

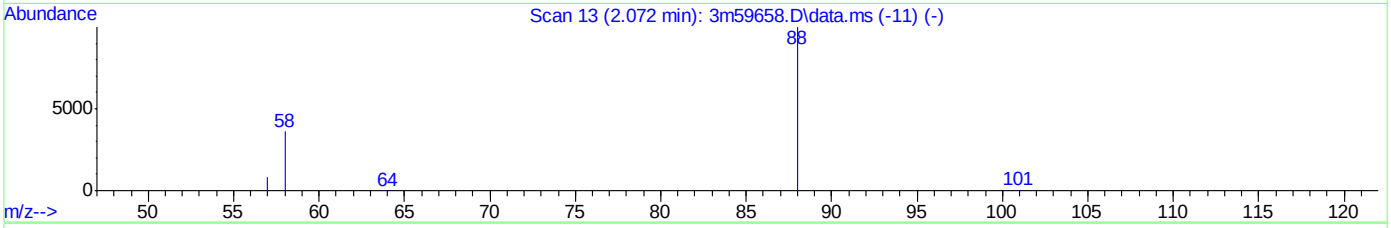
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration







TIC: 3m60769.D\data.ms

(2) 1,4-dioxane (t)

2.305min (+0.000) 0.02ppm

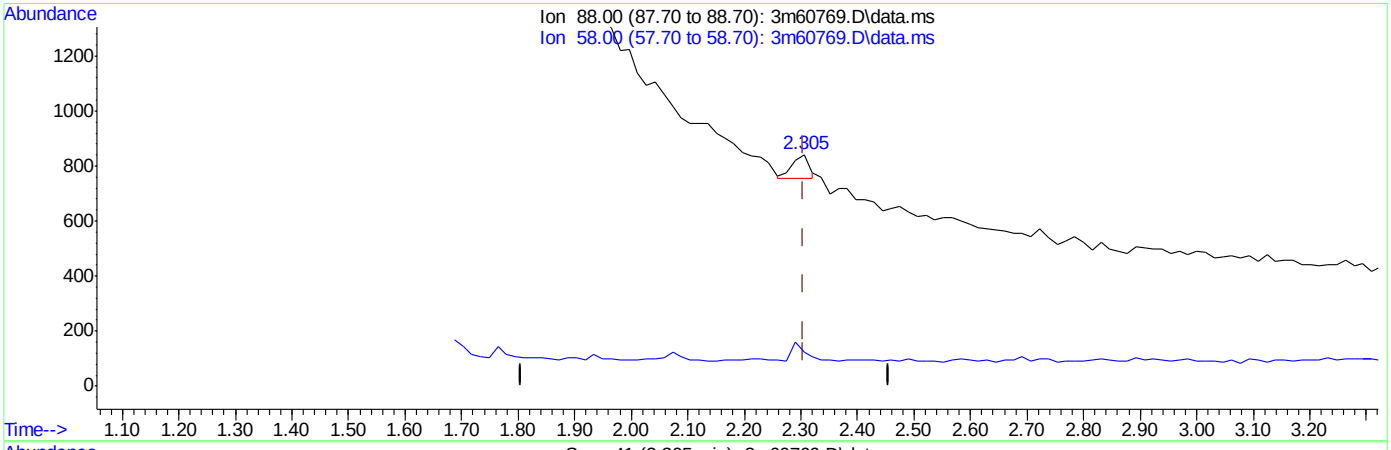
response 450

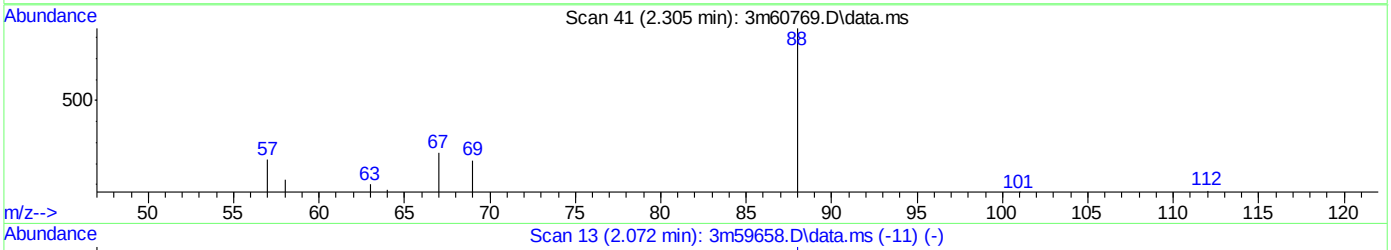
Ion	Exp%	Act%
88.00	100	100
58.00	32.40	25.45
0.00	0.00	0.00
0.00	0.00	0.00

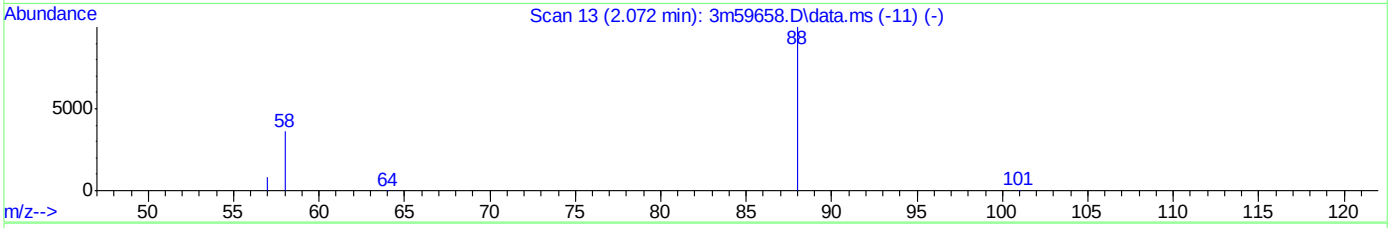
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60769.D
Acq On : 21 Apr 2016 5:49 pm
Operator : linseyk
Sample : ic2855-0.01
Misc : op93052a,e3m2855
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 22 08:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:05 2016
Response via : Initial Calibration







TIC: 3m60769.D\data.ms

(2) 1,4-dioxane (t)

2.305min (+0.000) 0.01ppm m

response 176

Ion	Exp%	Act%
88.00	100	100
58.00	32.40	14.85
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.641	150	366417	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	628480	4.00	ppm	0.00
21) Fluoranthene-d10	17.844	212	939162	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	756981	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	4214444	90.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	180.86%	
4) Phenol-d5	6.128	99	7328789	95.76	ppm	0.02
Spiked Amount 50.000			Recovery	=	191.52%	
7) Nitrobenzene-d5	7.745	82	7395086	102.34	ppm	0.02
Spiked Amount 50.000			Recovery	=	204.68%	
15) 2-Fluorobiphenyl	11.319	172	14347827	81.47	ppm	0.02
Spiked Amount 50.000			Recovery	=	162.94%	
20) 2,4,6-Tribromophenol	14.191	330	1892615	94.39	ppm	0.02
Spiked Amount 50.000			Recovery	=	188.78%	
28) Terphenyl-d14	18.662	244	11761490	83.98	ppm	0.02
Spiked Amount 50.000			Recovery	=	167.96%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.290	88	94789	4.85	ppm	75
5) Phenol	6.140	94	1983163	23.95	ppm #	79
6) bis(2-Chloroethyl)ether	6.298	93	266705	4.16	ppm #	60
8) Nitrobenzene	7.764	77	406472	5.38	ppm #	58
9) Naphthalene	9.139	128	1024731	5.04	ppm	98
10) Hexachlorobutadiene	9.421	225	174841	4.87	ppm	95
11) 2-Methylnaphthalene	10.517	141	553815	5.26	ppm	96
12) 1-Methylnaphthalene	10.702	141	647057	4.41	ppm	93
13) Hexachlorocyclopentadiene	10.846	237	345119	13.01	ppm	95
16) Acenaphthylene	12.293	152	1074573	4.94	ppm	99
17) Acenaphthene	12.648	153	680855	4.63	ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	689664	56.92	ppm	74
19) Fluorene	13.682	166	778408	4.36	ppm	94
22) Hexachlorobenzene	14.783	284	229525	5.21	ppm	94
23) Pentachlorophenol	15.201	266	786510	32.34	ppm	95
24) Phenanthrene	15.603	178	1190802	5.25	ppm	99
25) Anthracene	15.711	178	1181627	5.75	ppm	98
26) Fluoranthene	17.874	202	1318777	5.01	ppm	99
27) Pyrene	18.261	202	1382848	5.27	ppm	98
29) Benzo[a]anthracene	20.347	228	1195931	5.01	ppm	96
30) Chrysene	20.408	228	1263858	5.17	ppm	98
32) Benzo[b]fluoranthene	22.015	252	1201158	4.18	ppm	95
33) Benzo[k]fluoranthene	22.062	252	1191473	5.12	ppm	97
34) Benzo[a]pyrene	22.463	252	1113412	4.67	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.982	276	1248948	5.29	ppm	89
36) Dibenz[a,h]anthracene	24.020	278	1051200	5.43	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	1074162	5.23	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration

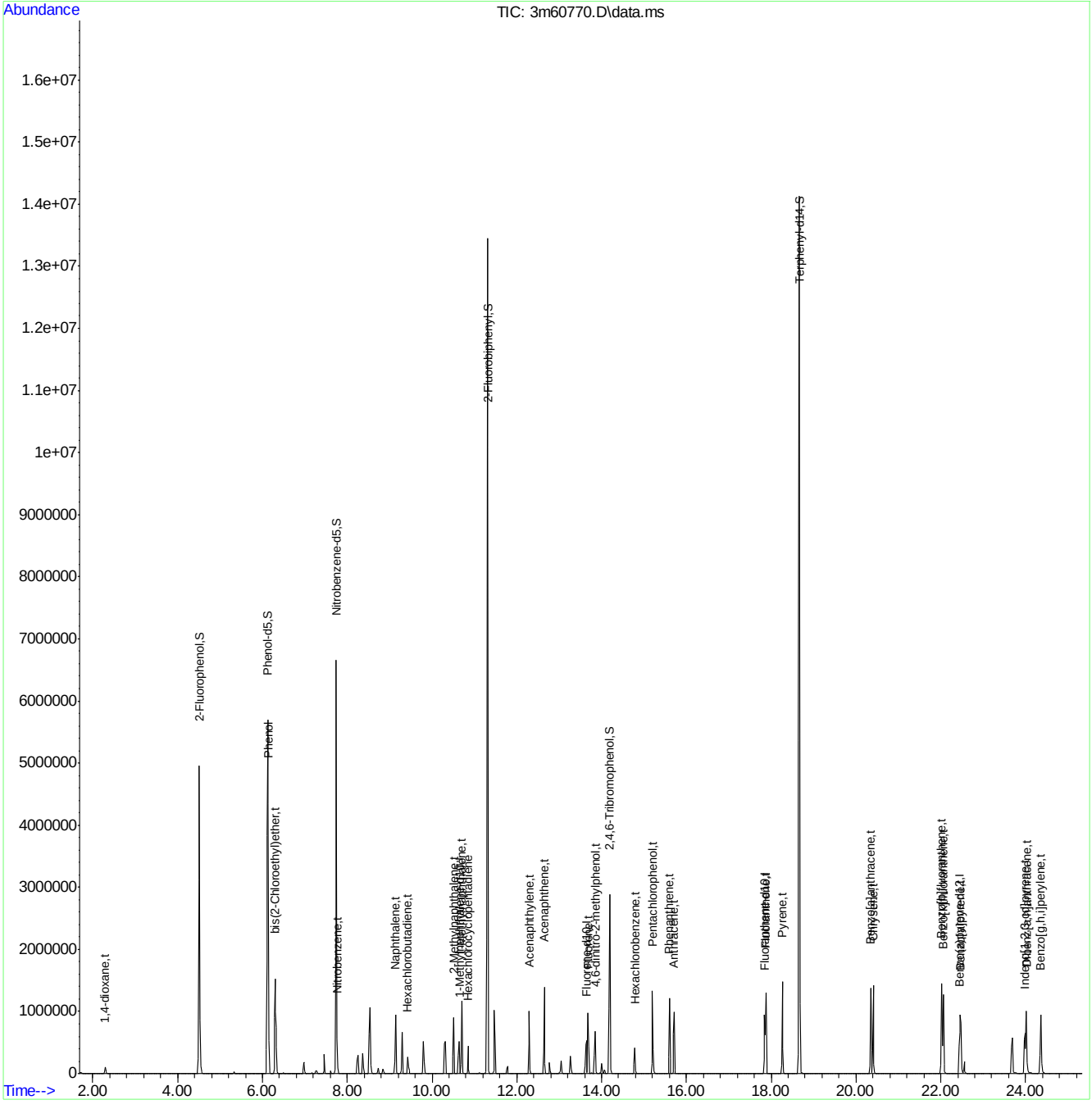
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60770.D
Acq On : 21 Apr 2016 6:22 pm
Operator : linseyk
Sample : ic2855-5.0
Misc : op93052a,e3m2855
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 22 08:30:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:30:48 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:31:12 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.640	150	385250	4.00	ppm	0.00
14) Fluorene-d10	13.644	176	616747	4.00	ppm	0.00
21) Fluoranthene-d10	17.843	212	966990	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	773663	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.515	112	2363254	48.90	ppm	0.00
Spiked Amount 50.000			Recovery = 97.80%			
4) Phenol-d5	6.116	99	3871836	48.37	ppm	-0.01
Spiked Amount 50.000			Recovery = 96.74%			
7) Nitrobenzene-d5	7.726	82	3072767	40.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 80.58%			
15) 2-Fluorobiphenyl	11.303	172	7301000	42.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 84.50%			
20) 2,4,6-Tribromophenol	14.191	330	926725	47.63	ppm	0.00
Spiked Amount 50.000			Recovery = 95.26%			
28) Terphenyl-d14	18.662	244	6991573	49.82	ppm	0.00
Spiked Amount 50.000			Recovery = 99.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.289	88	48881	2.39	ppm #	59
5) Phenol	6.128	94	1024552	11.84	ppm #	67
6) bis(2-Chloroethyl)ether	6.285	93	142356	2.16	ppm	77
8) Nitrobenzene	7.764	77	205619	2.56	ppm	76
9) Naphthalene	9.138	128	535435	2.50	ppm	98
10) Hexachlorobutadiene	9.421	225	87273	2.32	ppm	94
11) 2-Methylnaphthalene	10.517	141	279805	2.51	ppm	94
12) 1-Methylnaphthalene	10.702	141	340057	2.24	ppm	91
13) Hexachlorocyclopentadiene	10.846	237	158162	5.40	ppm	93
16) Acenaphthylene	12.293	152	544103	2.55	ppm	98
17) Acenaphthene	12.648	153	350568	2.45	ppm	95
18) 4,6-dinitro-2-methylph...	13.851	198	297531	19.93	ppm	92
19) Fluorene	13.682	166	399367	2.31	ppm	96
22) Hexachlorobenzene	14.783	284	115675	2.53	ppm	95
23) Pentachlorophenol	15.200	266	400828	15.26	ppm	98
24) Phenanthrene	15.602	178	602735	2.56	ppm	99
25) Anthracene	15.711	178	589914	2.71	ppm	98
26) Fluoranthene	17.874	202	671708	2.48	ppm	99
27) Pyrene	18.261	202	685271	2.51	ppm	99
29) Benzo[a]anthracene	20.346	228	610065	2.48	ppm	98
30) Chrysene	20.408	228	651165	2.57	ppm	98
32) Benzo[b]fluoranthene	22.015	252	621501	2.16	ppm	98
33) Benzo[k]fluoranthene	22.061	252	586018	2.45	ppm	99
34) Benzo[a]pyrene	22.463	252	565533	2.34	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	624468	2.57	ppm	97
36) Dibenz[a,h]anthracene	24.020	278	520048	2.60	ppm	100
37) Benzo[g,h,i]perylene	24.358	276	542545	2.57	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration

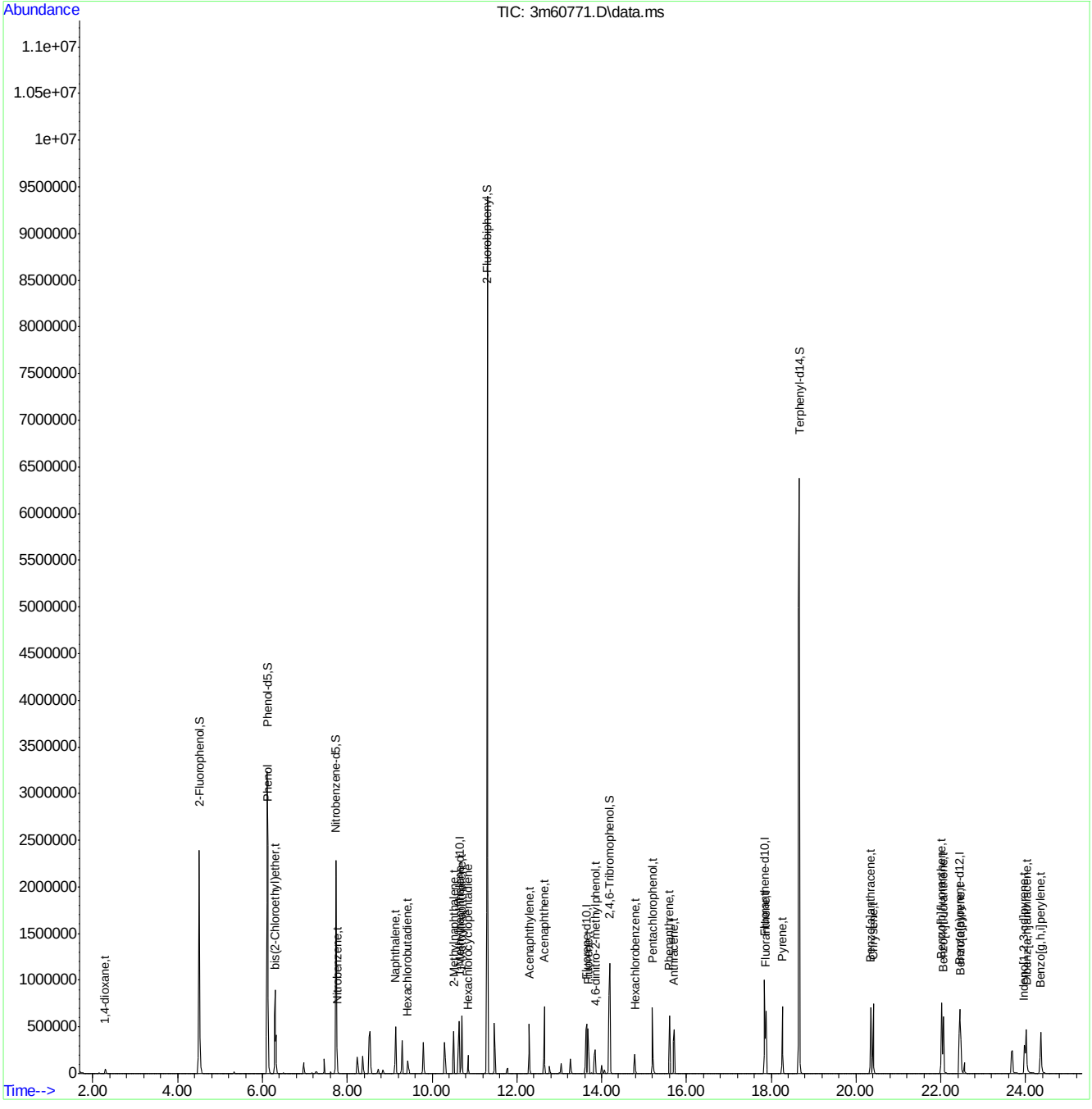
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60771.D
Acq On : 21 Apr 2016 6:55 pm
Operator : linseyk
Sample : ic2855-2.5
Misc : op93052a,e3m2855
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 22 08:31:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:31:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.641	150	468880	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	745589	4.00 ppm	0.00
21) Fluoranthene-d10	17.844	212	1195677	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	940216	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
5) Phenol	6.128	94	476638	4.56 ppm	99
18) 4,6-dinitro-2-methylph...	13.852	198	87949	3.84 ppm	95
23) Pentachlorophenol	15.201	266	168629	4.34 ppm	92

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

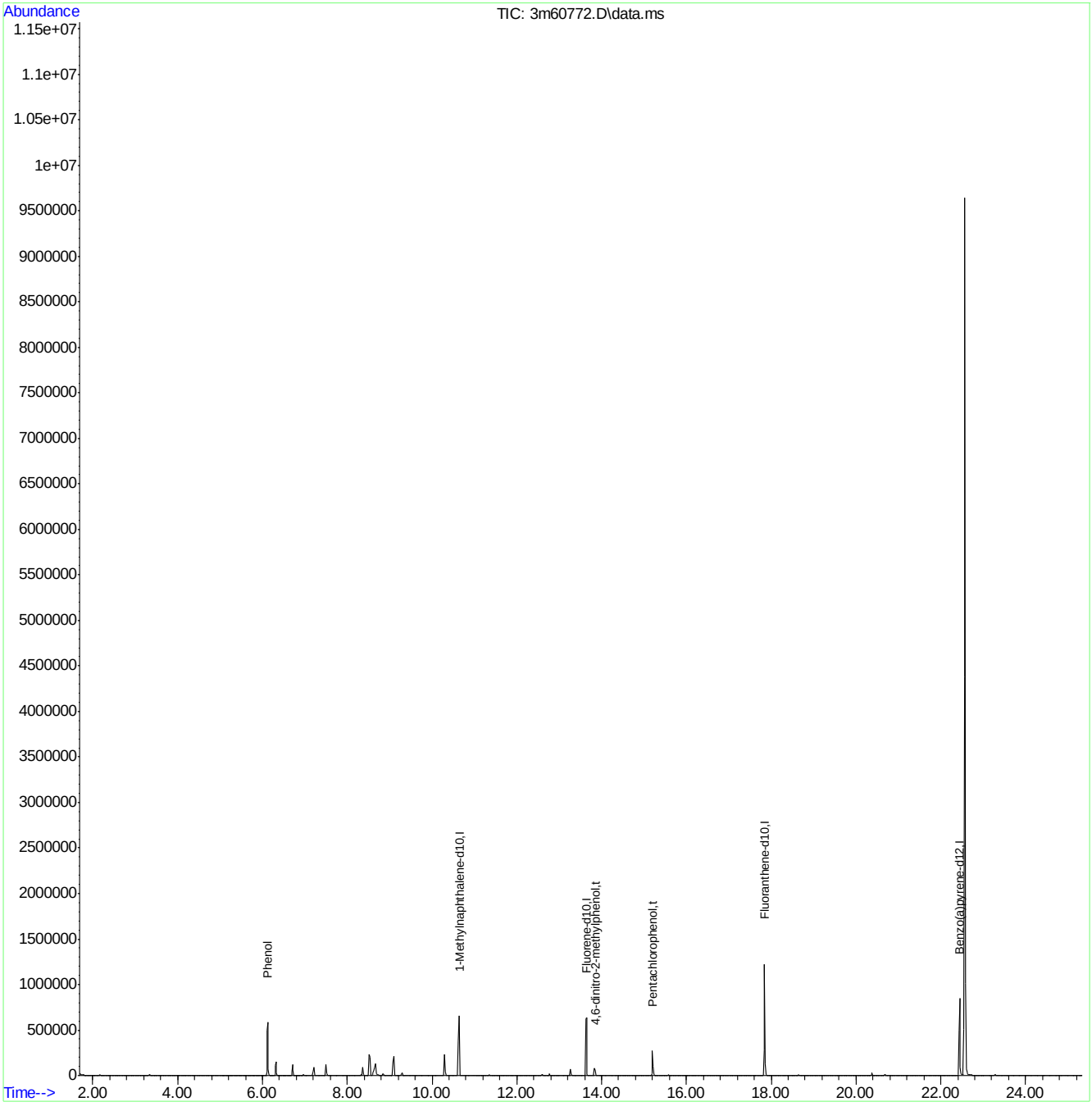
7.6.10

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60772.D
Acq On : 21 Apr 2016 7:27 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 22 08:56:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:56:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	381667	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	568016	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	891736	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	666840	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.320	88	21008	1.07 ppm	93
6) bis(2-Chloroethyl)ether	6.285	93	64147	1.00 ppm	87
8) Nitrobenzene	7.764	77	65386	0.82 ppm	100
9) Naphthalene	9.138	128	240749	1.14 ppm	99
10) Hexachlorobutadiene	9.421	225	41080	1.11 ppm	99
11) 2-Methylnaphthalene	10.517	141	115129	1.04 ppm	98
16) Acenaphthylene	12.293	152	209375	1.06 ppm	99
17) Acenaphthene	12.648	153	152795	1.16 ppm	96
19) Fluorene	13.682	166	170302	1.08 ppm	100
22) Hexachlorobenzene	14.783	284	47590	1.13 ppm	96
24) Phenanthrene	15.602	178	253476	1.16 ppm	95
25) Anthracene	15.711	178	221984	1.15 ppm	98
26) Fluoranthene	17.874	202	279548	1.02 ppm	99
27) Pyrene	18.261	202	275135	1.08 ppm	98
29) Benzo[a]anthracene	20.362	228	271481	1.11 ppm	94
30) Chrysene	20.408	228	239361	1.02 ppm	94
32) Benzo[b]fluoranthene	22.015	252	207742	0.94 ppm	97
33) Benzo[k]fluoranthene	22.061	252	230502	1.12 ppm	98
34) Benzo[a]pyrene	22.463	252	199534	0.97 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.963	276	218688	1.04 ppm	98
36) Dibenz[a,h]anthracene	24.020	278	173448	1.00 ppm	100
37) Benzo[g,h,i]perylene	24.358	276	191304	1.05 ppm	100

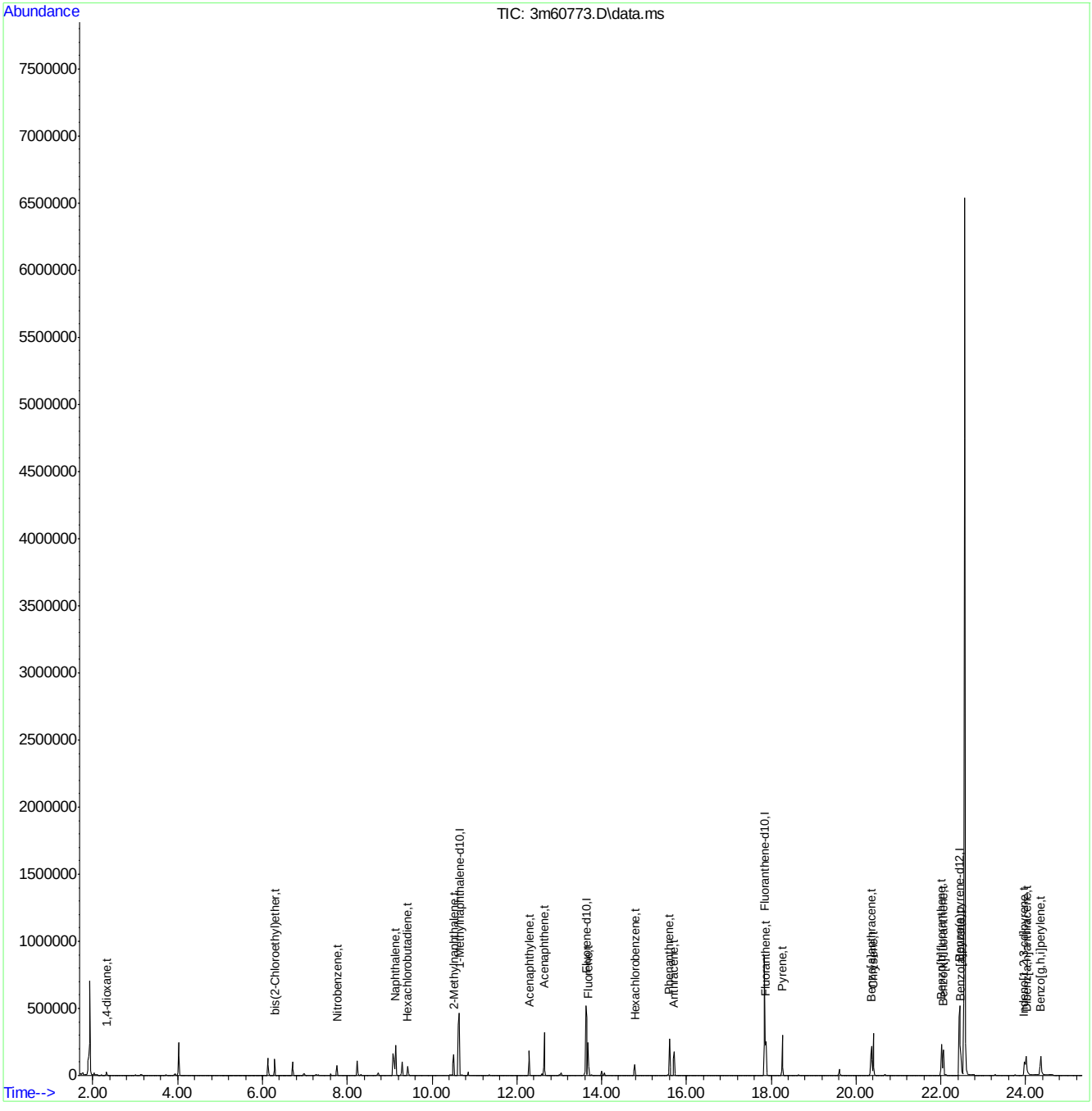
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60773.D
Acq On : 21 Apr 2016 8:00 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 22 08:58:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:28 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60774.D
Acq On : 21 Apr 2016 8:35 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 22 08:58:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.640	150	433101	4.00 ppm	0.00
14) Fluorene-d10	13.644	176	614407	4.00 ppm	0.00
21) Fluoranthene-d10	17.843	212	1087112	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.448	264	854436	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.289	88	25472	1.14 ppm	95
12) 1-Methylnaphthalene	10.702	141	161130	0.95 ppm	94
13) Hexachlorocyclopentadiene	10.845	237	34911	1.05 ppm	99

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

7.6.12

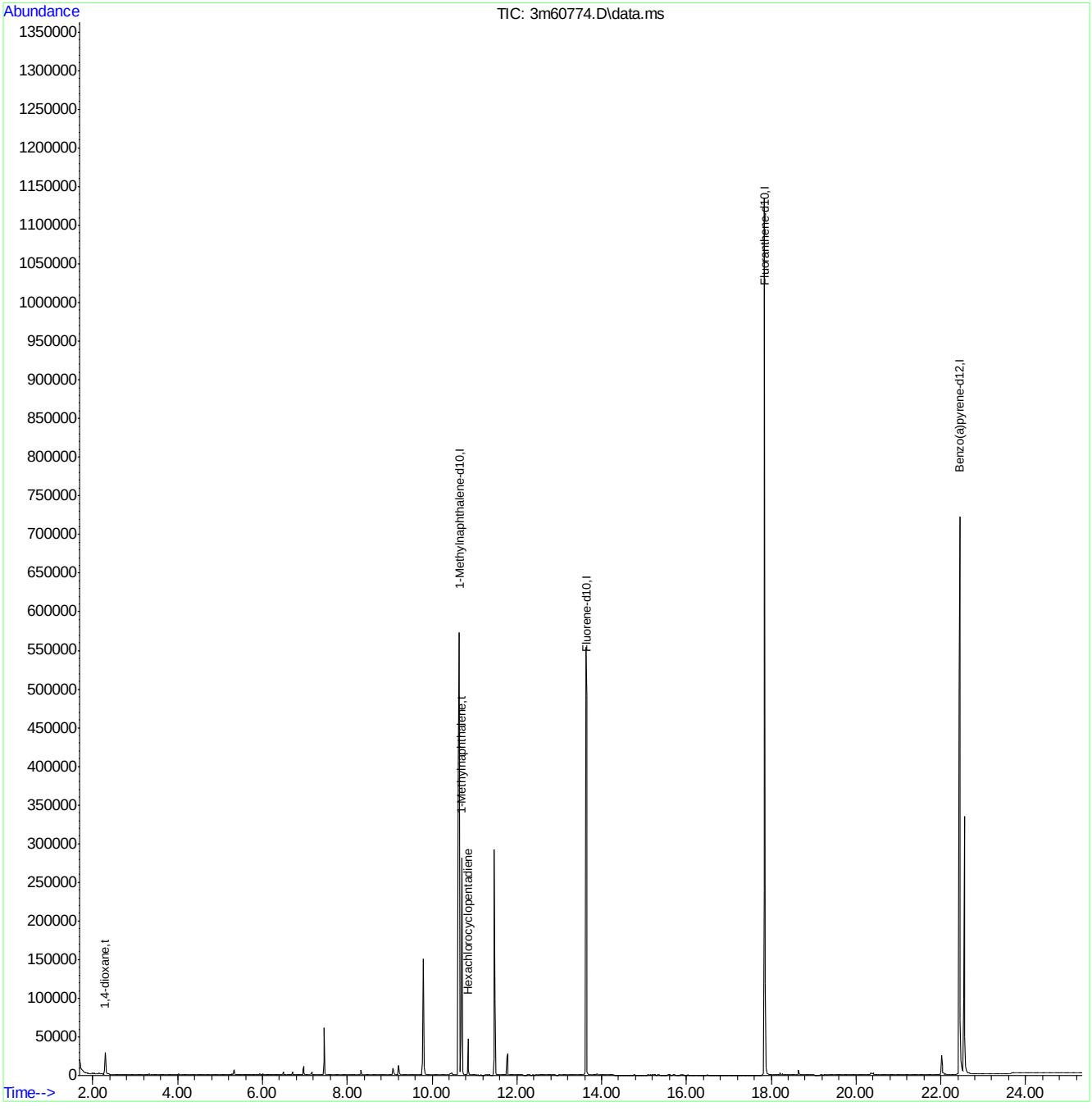
7

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2855\
Data File : 3m60774.D
Acq On : 21 Apr 2016 8:35 pm
Operator : linseyk
Sample : icv2855-1.0
Misc : op93052a,e3m2855
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 22 08:58:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Apr 22 08:34:22 2016
Response via : Initial Calibration



M3M2855SIM.M Fri Apr 22 08:58:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60964.D
Acq On : 29 Apr 2016 9:37 am
Operator : ashleyd
Sample : cc2855-0.5
Misc : op93271a,e3m2867
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 10:01:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.488	150	218939	4.00	ppm	-0.13
14) Fluorene-d10	13.486	176	319815	4.00	ppm	-0.16
21) Fluoranthene-d10	17.701	212	586019	4.00	ppm	-0.16
31) Benzo(a)pyrene-d12	22.305	264	469143	4.00	ppm	-0.15
System Monitoring Compounds						
3) 2-Fluorophenol	4.399	112	292336	10.67	ppm	-0.11
Spiked Amount 50.000			Recovery = 21.34%			
4) Phenol-d5	6.000	99	469080	10.35	ppm	-0.09
Spiked Amount 50.000			Recovery = 20.70%			
7) Nitrobenzene-d5	7.606	82	376863	8.94	ppm	-0.11
Spiked Amount 50.000			Recovery = 17.88%			
15) 2-Fluorobiphenyl	11.160	172	933796	10.63	ppm	-0.14
Spiked Amount 50.000			Recovery = 21.26%			
20) 2,4,6-Tribromophenol	14.033	330	102535	10.24	ppm	-0.14
Spiked Amount 50.000			Recovery = 20.48%			
28) Terphenyl-d14	18.519	244	896082	10.54	ppm	-0.14
Spiked Amount 50.000			Recovery = 21.08%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.205	88	6115	0.54	ppm	67
5) Phenol	6.024	94	123093	2.52	ppm	97
6) bis(2-Chloroethyl)ether	6.169	93	17802	0.48	ppm #	48
8) Nitrobenzene	7.625	77	20704	0.45	ppm #	55
9) Naphthalene	8.999	128	64742	0.53	ppm	96
10) Hexachlorobutadiene	9.282	225	10523	0.50	ppm	88
11) 2-Methylnaphthalene	10.365	141	32898	0.52	ppm #	55
12) 1-Methylnaphthalene	10.570	141	34408	0.40	ppm	91
13) Hexachlorocyclopentadiene	10.714	237	14029	0.83	ppm	90
16) Acenaphthylene	12.150	152	57992	0.52	ppm	97
17) Acenaphthene	12.505	153	39649	0.54	ppm	96
18) 4,6-dinitro-2-methylph...	13.712	198	13393	1.81	ppm	64
19) Fluorene	13.543	166	48829	0.55	ppm	96
22) Hexachlorobenzene	14.640	284	13498	0.49	ppm	99
23) Pentachlorophenol	15.073	266	35624	1.97	ppm	85
24) Phenanthrene	15.459	178	69293	0.48	ppm #	56
25) Anthracene	15.552	178	59554	0.47	ppm	88
26) Fluoranthene	17.731	202	79233	0.44	ppm	96
27) Pyrene	18.118	202	77224	0.46	ppm	94
29) Benzo[a]anthracene	20.204	228	70343	0.44	ppm	90
30) Chrysene	20.265	228	75520	0.49	ppm	92
32) Benzo[b]fluoranthene	21.872	252	84140	0.54	ppm	96
33) Benzo[k]fluoranthene	21.919	252	60949	0.42	ppm	98
34) Benzo[a]pyrene	22.336	252	68297	0.47	ppm	87
35) Indeno[1,2,3-cd]pyrene	23.806	276	79337	0.54	ppm	95
36) Dibenz[a,h]anthracene	23.843	278	63799	0.52	ppm	100
37) Benzo[g,h,i]perylene	24.163	276	66979	0.52	ppm	98

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60964.D
Acq On : 29 Apr 2016 9:37 am
Operator : ashleyd
Sample : cc2855-0.5
Misc : op93271a,e3m2867
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 10:01:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration

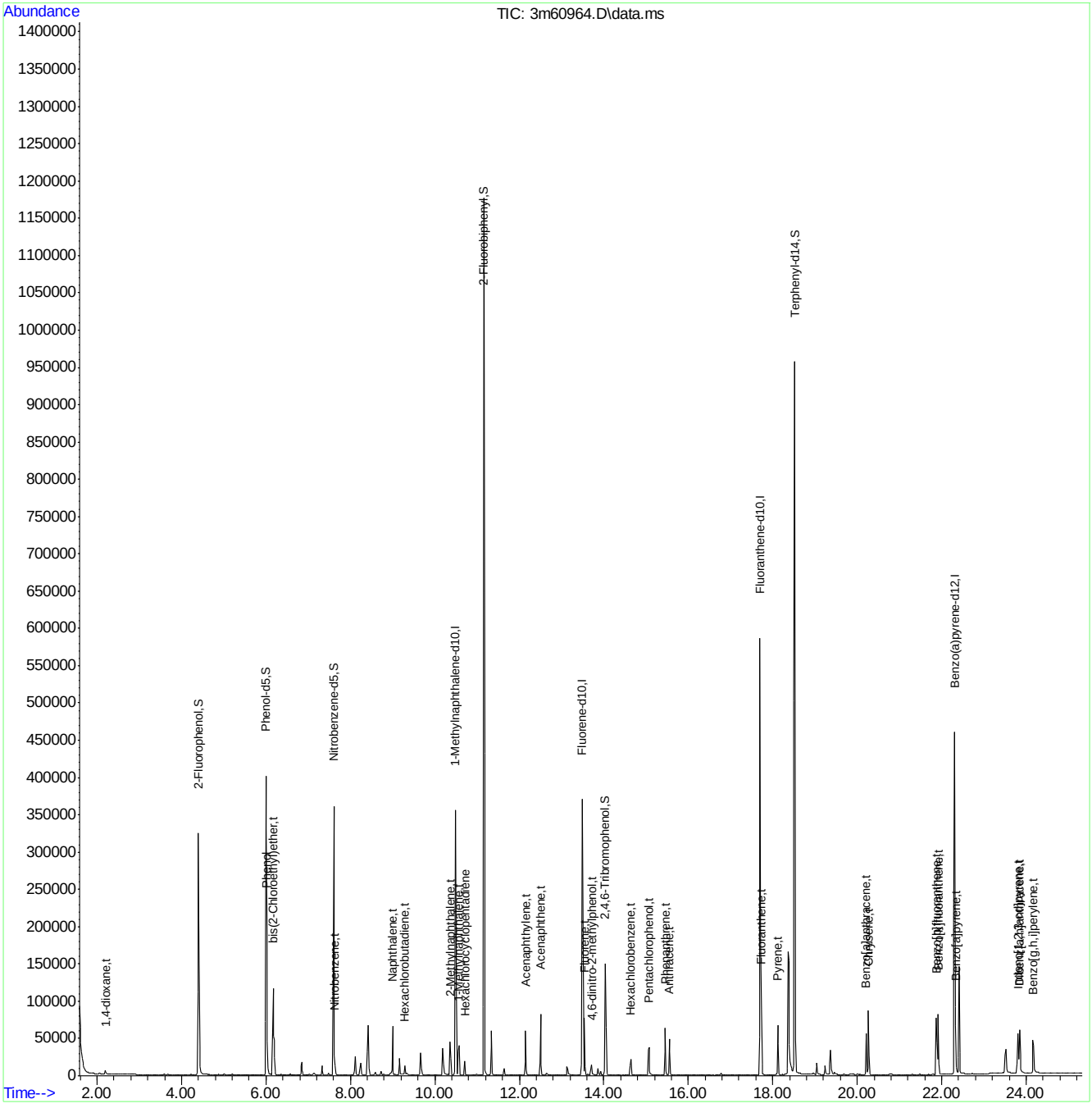
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2867\
Data File : 3m60964.D
Acq On : 29 Apr 2016 9:37 am
Operator : ashleyd
Sample : cc2855-0.5
Misc : op93271a,e3m2867
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 29 10:01:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2855SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Apr 28 10:59:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	735738	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2800726	40.00	ppm	0.00
47) Acenaphthene-d10	7.28	164	1660280	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2724294	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2126198	40.00	ppm	0.00
92) Perylene-d12	17.60	264	2220858	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	735738	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2800726	40.00	ppm	0.00
121) Acenaphthene-d10A	7.28	164	1660280	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2724294	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2126198	40.00	ppm	0.00
155) Perylene-d12A	17.60	264	2220858	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	735738	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2800726	40.00	ppm	0.00
163) Acenaphthene-d10b	7.28	164	1660280	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2724294	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2126198	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	735738	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2800726	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2126198	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2800726	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2126198	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2415283	97.31	ppm	0.00
Spiked Amount 50.000			Recovery = 194.62%			
8) Phenol-d5	4.61	99	2853578	96.41	ppm	0.00
Spiked Amount 50.000			Recovery = 192.82%			
25) Nitrobenzene-d5	5.28	82	2433835	96.44	ppm	0.00
Spiked Amount 50.000			Recovery = 192.88%			
51) 2-Fluorobiphenyl	6.64	172	4342287	93.76	ppm	0.00
Spiked Amount 50.000			Recovery = 187.52%			
73) 2,4,6-Tribromophenol	8.20	330	517542	95.28	ppm	0.00
Spiked Amount 50.000			Recovery = 190.56%			
85) Terphenyl-d14	12.32	244	4088465	96.46	ppm	0.01
Spiked Amount 50.000			Recovery = 192.92%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.48	88	1018203	95.16	ppm	95
3) Pyridine	2.79	79	2690464	99.72	ppm	99
4) N-Nitrosodimethylamine	2.76	42	937530	90.49	ppm	96
6) Indene	5.07	116	3469537	92.16	ppm	99
7) Cumene	4.29	105	4968732	93.89	ppm	97
9) Phenol	4.62	94	3154982	99.75	ppm	98
10) Aniline	4.64	93	2963325	94.39	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	2177822	96.37	ppm	96
12) 2-Chlorophenol	4.73	128	2406387	95.55	ppm	99
13) Decane	4.76	43	1963317	95.11	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	2614967	94.91	ppm	99
15) 1,4-Dichlorobenzene	4.89	146	2614476	95.23	ppm	99

(#) = qualifier out of range (m) = manual integration
F156051.D MF6563.M Tue Apr 05 08:42:32 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16)	Benzyl alcohol	4.98	108	1576852	96.65	ppm	92
17)	1,2-Dichlorobenzene	5.01	146	2379933	93.80	ppm	99
18)	Acetophenone	5.18	105	2624782	92.97	ppm	99
19)	2-Methylphenol	5.06	108	2053215	94.88	ppm	99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	730006	94.43	ppm	95
21)	3&4-Methylphenol	5.17	108	1977426	92.94	ppm	98
22)	n-Nitroso-di-n-propylamine	5.18	70	1528888	96.37	ppm	98
23)	Hexachloroethane	5.26	201	817929	95.24	ppm	90
26)	Nitrobenzene	5.30	77	2494112	95.44	ppm	99
27)	Quinoline	6.07	129	4860825	96.16	ppm	98
28)	Isophorone	5.48	82	4117430	95.13	ppm	98
29)	2-Nitrophenol	5.53	139	1242388	94.12	ppm	93
30)	2,4-Dimethylphenol	5.55	107	2185611	97.20	ppm	99
31)	Benzoic acid	5.65	105	1881567	95.13	ppm	94
32)	bis(2-Chloroethoxy)methane	5.62	93	2547670	95.25	ppm	99
33)	2,4-Dichlorophenol	5.70	162	1959287	94.69	ppm	98
34)	2,6-Dichlorophenol	5.86	162	1731527	92.72	ppm	98
35)	1,3,5-Trichlorobenzene	5.54	180	1853561	91.96	ppm	98
36)	1,2,4-Trichlorobenzene	5.77	180	1938698	93.10	ppm	99
37)	1,2,3-Trichlorobenzene	5.93	180	1890090	92.62	ppm	99
38)	Naphthalene	5.82	128	5709757	89.14	ppm	94
39)	4-Chloroaniline	5.86	127	2479911	92.20	ppm	99
40)	2,3-Dichloroaniline	6.56	161	1986572	92.15	ppm	95
41)	Caprolactam	6.13	55	1008962	97.53	ppm	98
42)	Hexachlorobutadiene	5.91	225	893950	92.65	ppm	99
43)	4-Chloro-3-methylphenol	6.21	107	1978829	95.60	ppm	98
44)	2-Methylnaphthalene	6.34	141	3554755	93.20	ppm	97
45)	1-Methylnaphthalene	6.42	141	3668076	93.09	ppm	98
46)	Dimethylnaphthalene	6.87	156	3683476	92.55	ppm	98
48)	Hexachlorocyclopentadiene	6.46	237	1893313	184.00	ppm	99
49)	2,4,6-Trichlorophenol	6.56	196	1076514	90.67	ppm	99
50)	2,4,5-Trichlorophenol	6.60	196	1388401	97.07	ppm	97
52)	2-Chloronaphthalene	6.75	162	3997017	93.95	ppm	97
53)	Biphenyl	6.72	154	4938769	92.56	ppm	96
54)	2-Nitroaniline	6.83	65	1315818	97.37	ppm	99
55)	Dimethylphthalate	6.99	163	4635167	95.00	ppm	99
56)	Acenaphthylene	7.13	152	6291490	92.61	ppm	96
57)	2,6-Dinitrotoluene	7.05	165	1104006	96.28	ppm	99
58)	3-Nitroaniline	7.22	138	1387906	97.20	ppm	97
59)	Acenaphthene	7.31	153	3993510	93.75	ppm	99
60)	2,4-Dinitrophenol	7.34	184	1363184	199.99	ppm	90
61)	4-Nitrophenol	7.38	109	700188	98.20	ppm	95
62)	Dibenzofuran	7.50	168	5523942	94.24	ppm	96
63)	2,4-Dinitrotoluene	7.47	165	1525966	97.18	ppm	99
64)	2,3,4,6-Tetrachlorophenol	7.63	232	1059085	95.49	ppm	98
65)	Diethylphthalate	7.75	149	4660438	95.22	ppm	98
66)	Fluorene	7.90	166	3950840	92.72	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	1689443	92.10	ppm	99
68)	4-Nitroaniline	7.92	138	1402452	98.41	ppm	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.96	198	920275	98.75	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	3341482	94.31	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	4866438	96.01	ppm	100
74)	4-Bromophenyl-phenylether	8.55	248	1119508	94.72	ppm	98
75)	Hexachlorobenzene	8.63	284	1067556	94.24	ppm	96
76)	Pentachlorophenol	8.93	266	1472528	187.28	ppm	97
77)	Phenanthrene	9.26	178	6463150	94.05	ppm	99
78)	Anthracene	9.34	178	6560053	93.30	ppm	98
79)	Carbazole	9.62	167	6335193	94.85	ppm	99
80)	Di-n-butylphthalate	10.33	149	7970957	93.84	ppm	98
81)	Fluoranthene	11.44	202	6809284	94.97	ppm	99
82)	Octadecane	9.11	57	2784718	94.50	ppm	98
84)	Pyrene	11.89	202	7130369	96.69	ppm	99
86)	Butylbenzylphthalate	13.50	149	3749178	98.42	ppm	99
87)	Butyl stearate	13.78	56	2050981	96.66	ppm	97
88)	Benzo[a]anthracene	14.53	228	6154397	97.90	ppm	99
89)	3,3'-Dichlorobenzidine	14.57	252	2263266	99.56	ppm	99
90)	Chrysene	14.62	228	6043538	96.93	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.91	149	5223738	98.04	ppm	99
93)	Di-n-octylphthalate	16.36	149	9141867	94.78	ppm	99
94)	Benzo[b]fluoranthene	16.86	252	6115537	94.36	ppm	98
95)	Benzo[k]fluoranthene	16.93	252	6017663	93.42	ppm	99
96)	Benzo[a]pyrene	17.50	252	5718329	95.17	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.56	276	5381186	96.35	ppm	98
98)	Dibenz(a,h)acridine	19.19	279	4651885	96.37	ppm	98
99)	Dibenz[a,h]anthracene	19.62	278	5247348	95.01	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2602864	95.06	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5636779	95.40	ppm	99

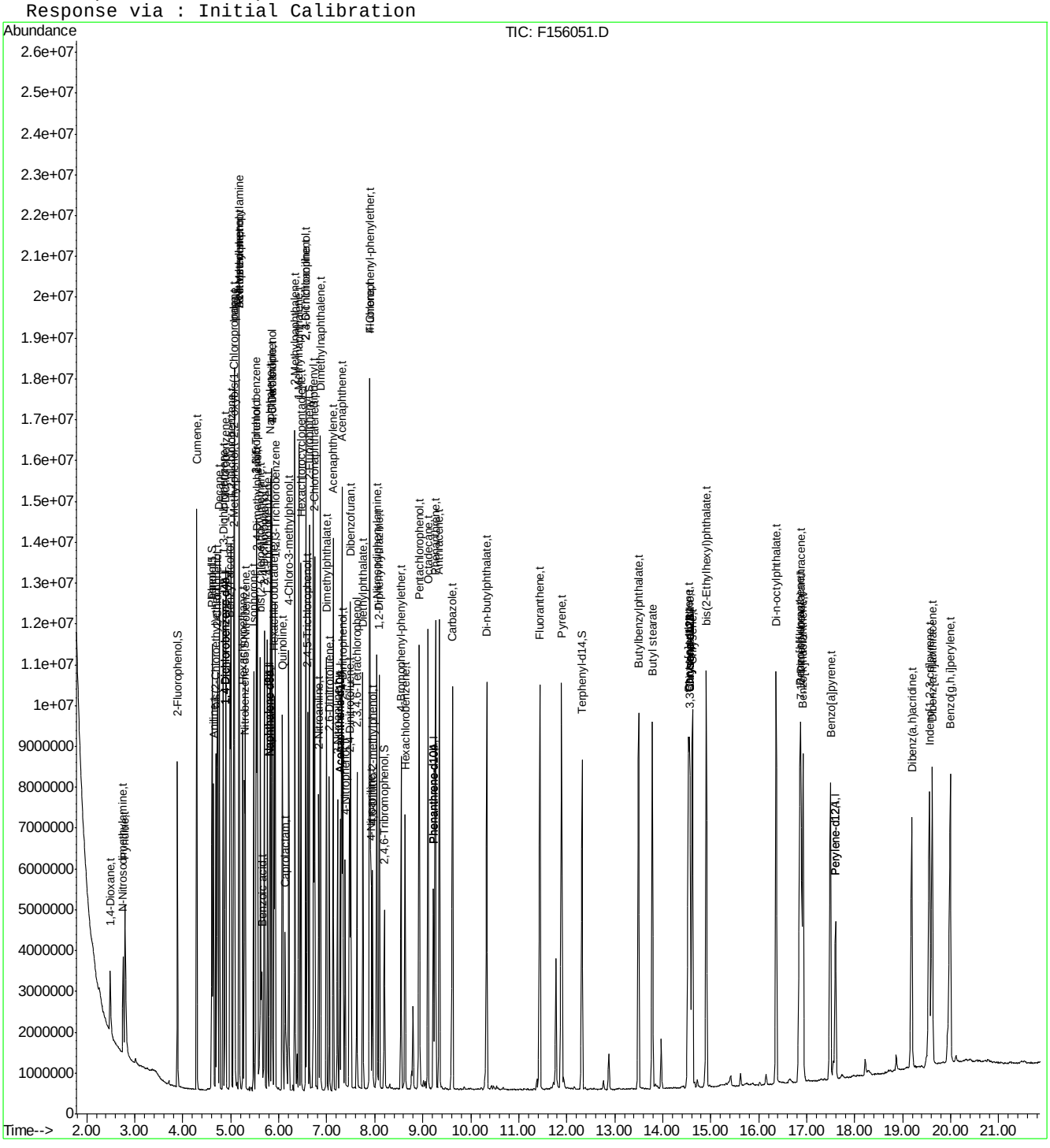
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156051.D Vial: 2
Acq On : 4 Apr 2016 7:09 pm Operator: sarad
Sample : ic6563-100 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:42 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	764392	40.00	ppm	0.00
24) Naphthalene-d8	5.81	136	2888824	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1719749	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2826597	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2250416	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2338825	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	764392	40.00	ppm	0.00
112) Naphthalene-d8A	5.81	136	2888824	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1719749	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2826597	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2250416	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2338825	40.00	ppm	-0.10
159) 1,4-Dichlorobenzene-d4b	4.88	152	764392	40.00	ppm	0.00
161) Naphthalene-d8b	5.81	136	2888824	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1719749	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2826597	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2250416	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	764392	40.00	ppm	0.00
171) Naphthalene-d8c	5.81	136	2888824	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2250416	40.00	ppm	0.00
178) Naphthalene-d8a	5.81	136	2888824	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2250416	40.00	ppm	0.25
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	2062489	79.98	ppm	0.00
Spiked Amount 50.000			Recovery = 159.96%			
8) Phenol-d5	4.61	99	2462479	80.08	ppm	0.00
Spiked Amount 50.000			Recovery = 160.16%			
25) Nitrobenzene-d5	5.28	82	2060768	79.17	ppm	0.00
Spiked Amount 50.000			Recovery = 158.34%			
51) 2-Fluorobiphenyl	6.63	172	3825541	79.74	ppm	0.00
Spiked Amount 50.000			Recovery = 159.48%			
73) 2,4,6-Tribromophenol	8.20	330	446788	79.28	ppm	0.00
Spiked Amount 50.000			Recovery = 158.56%			
85) Terphenyl-d14	12.31	244	3624247	80.79	ppm	0.00
Spiked Amount 50.000			Recovery = 161.58%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	879798	79.14	ppm	95
3) Pyridine	2.80	79	2273153	81.09	ppm	100
4) N-Nitrosodimethylamine	2.76	42	790559	73.45	ppm	97
6) Indene	5.07	116	3089321	78.98	ppm	100
7) Cumene	4.29	105	4456078	81.05	ppm	99
9) Phenol	4.62	94	2760273	84.00	ppm	98
10) Aniline	4.64	93	2652544	81.32	ppm	99
11) bis(2-Chloroethyl)ether	4.69	93	1882357	80.17	ppm	97
12) 2-Chlorophenol	4.73	128	2078397	79.43	ppm	98
13) Decane	4.76	43	1701763	79.35	ppm	99
14) 1,3-Dichlorobenzene	4.84	146	2276578	79.53	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	2285665	80.13	ppm	99

(#) = qualifier out of range (m) = manual integration
F156052.D MF6563.M Tue Apr 05 08:44:12 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.98	108	1343060	79.24	ppm	94
17) 1,2-Dichlorobenzene	5.01	146	2067345	78.43	ppm	99
18) Acetophenone	5.18	105	2310235	78.76	ppm	89
19) 2-Methylphenol	5.06	108	1787075	79.49	ppm	99
20) 2,2'-oxybis(1-Chloropropan	5.08	121	632570	78.76	ppm	93
21) 3&4-Methylphenol	5.17	108	1752503	79.28	ppm	99
22) n-Nitroso-di-n-propylamine	5.18	70	1313164	79.67	ppm	99
23) Hexachloroethane	5.26	201	713347	79.95	ppm	87
26) Nitrobenzene	5.30	77	2147480	79.67	ppm	96
27) Quinoline	6.07	129	4207237	80.69	ppm	99
28) Isophorone	5.47	82	3560554	79.75	ppm	97
29) 2-Nitrophenol	5.53	139	1072794	78.79	ppm	88
30) 2,4-Dimethylphenol	5.55	107	1867062	80.50	ppm	97
31) Benzoic acid	5.64	105	1754892	86.02	ppm	96
32) bis(2-Chloroethoxy)methane	5.62	93	2201059	79.78	ppm	99
33) 2,4-Dichlorophenol	5.70	162	1702377	79.77	ppm	98
34) 2,6-Dichlorophenol	5.86	162	1527098	79.28	ppm	98
35) 1,3,5-Trichlorobenzene	5.54	180	1612386	77.56	ppm	98
36) 1,2,4-Trichlorobenzene	5.76	180	1703831	79.32	ppm	99
37) 1,2,3-Trichlorobenzene	5.93	180	1653422	78.55	ppm	99
38) Naphthalene	5.82	128	5210846	78.87	ppm	98
39) 4-Chloroaniline	5.86	127	2195979	79.16	ppm	99
40) 2,3-Dichloroaniline	6.56	161	1755819	78.96	ppm	97
41) Caprolactam	6.13	55	872700	81.79	ppm	98
42) Hexachlorobutadiene	5.90	225	791240	79.50	ppm	98
43) 4-Chloro-3-methylphenol	6.21	107	1726269	80.86	ppm	100
44) 2-Methylnaphthalene	6.34	141	3113016	79.13	ppm	99
45) 1-Methylnaphthalene	6.42	141	3188993	78.46	ppm	99
46) Dimethylnaphthalene	6.87	156	3238997	78.90	ppm	99
48) Hexachlorocyclopentadiene	6.46	237	1690587	158.61	ppm	100
49) 2,4,6-Trichlorophenol	6.56	196	965555	78.51	ppm	98
50) 2,4,5-Trichlorophenol	6.59	196	1215427	82.04	ppm	98
52) 2-Chloronaphthalene	6.74	162	3523183	79.95	ppm	98
53) Biphenyl	6.72	154	4380247	79.25	ppm	96
54) 2-Nitroaniline	6.83	65	1137580	81.27	ppm	97
55) Dimethylphthalate	6.99	163	4095162	81.03	ppm	99
56) Acenaphthylene	7.13	152	5708953	81.13	ppm	98
57) 2,6-Dinitrotoluene	7.05	165	959498	80.78	ppm	99
58) 3-Nitroaniline	7.22	138	1200801	81.19	ppm	98
59) Acenaphthene	7.31	153	3530348	80.01	ppm	96
60) 2,4-Dinitrophenol	7.33	184	1162305	164.62	ppm	97
61) 4-Nitrophenol	7.38	109	605426	81.98	ppm	97
62) Dibenzofuran	7.50	168	4864463	80.12	ppm	99
63) 2,4-Dinitrotoluene	7.47	165	1324034	81.41	ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.62	232	937948	81.64	ppm	96
65) Diethylphthalate	7.75	149	4058066	80.04	ppm	98
66) Fluorene	7.90	166	3521021	79.77	ppm	99
67) 4-Chlorophenyl-phenylether	7.89	204	1501482	79.02	ppm	98
68) 4-Nitroaniline	7.91	138	1214235	82.26	ppm	99

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:04 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.95	198	785914	81.28	ppm	98
71)	n-Nitrosodiphenylamine	8.04	169	2958155	80.47	ppm	99
72)	1,2-Diphenylhydrazine	8.09	77	4213708	80.12	ppm	97
74)	4-Bromophenyl-phenylether	8.55	248	994002	81.06	ppm	97
75)	Hexachlorobenzene	8.63	284	945310	80.43	ppm	96
76)	Pentachlorophenol	8.92	266	1300970	159.47	ppm	96
77)	Phenanthrene	9.26	178	5752271	80.67	ppm	100
78)	Anthracene	9.34	178	5824392	79.84	ppm	100
79)	Carbazole	9.62	167	5550966	80.10	ppm	99
80)	Di-n-butylphthalate	10.33	149	7133269	80.93	ppm	99
81)	Fluoranthene	11.44	202	5981934	80.41	ppm	99
82)	Octadecane	9.11	57	2401312	78.54	ppm	97
84)	Pyrene	11.89	202	6287677	80.55	ppm	99
86)	Butylbenzylphthalate	13.49	149	3301200	81.88	ppm	98
87)	Butyl stearate	13.78	56	1791413	79.76	ppm	98
88)	Benzo[a]anthracene	14.53	228	5420519	81.47	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1990392	82.72	ppm	100
90)	Chrysene	14.61	228	5371405	81.40	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.91	149	4525592	80.25	ppm	100
93)	Di-n-octylphthalate	16.36	149	8079322	79.54	ppm	100
94)	Benzo[b]fluoranthene	16.85	252	5463606	80.05	ppm	98
95)	Benzo[k]fluoranthene	16.92	252	5260391	77.55	ppm	98
96)	Benzo[a]pyrene	17.49	252	5062293	80.00	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.55	276	4753743	80.82	ppm	99
98)	Dibenz(a,h)acridine	19.18	279	4103933	80.73	ppm	100
99)	Dibenz[a,h]anthracene	19.61	278	4734117	81.40	ppm	98
100)	7,12-Dimethylbenz(a)anthra	16.88	256	2332244	80.88	ppm	98
101)	Benzo[g,h,i]perylene	19.99	276	5078801	81.62	ppm	99

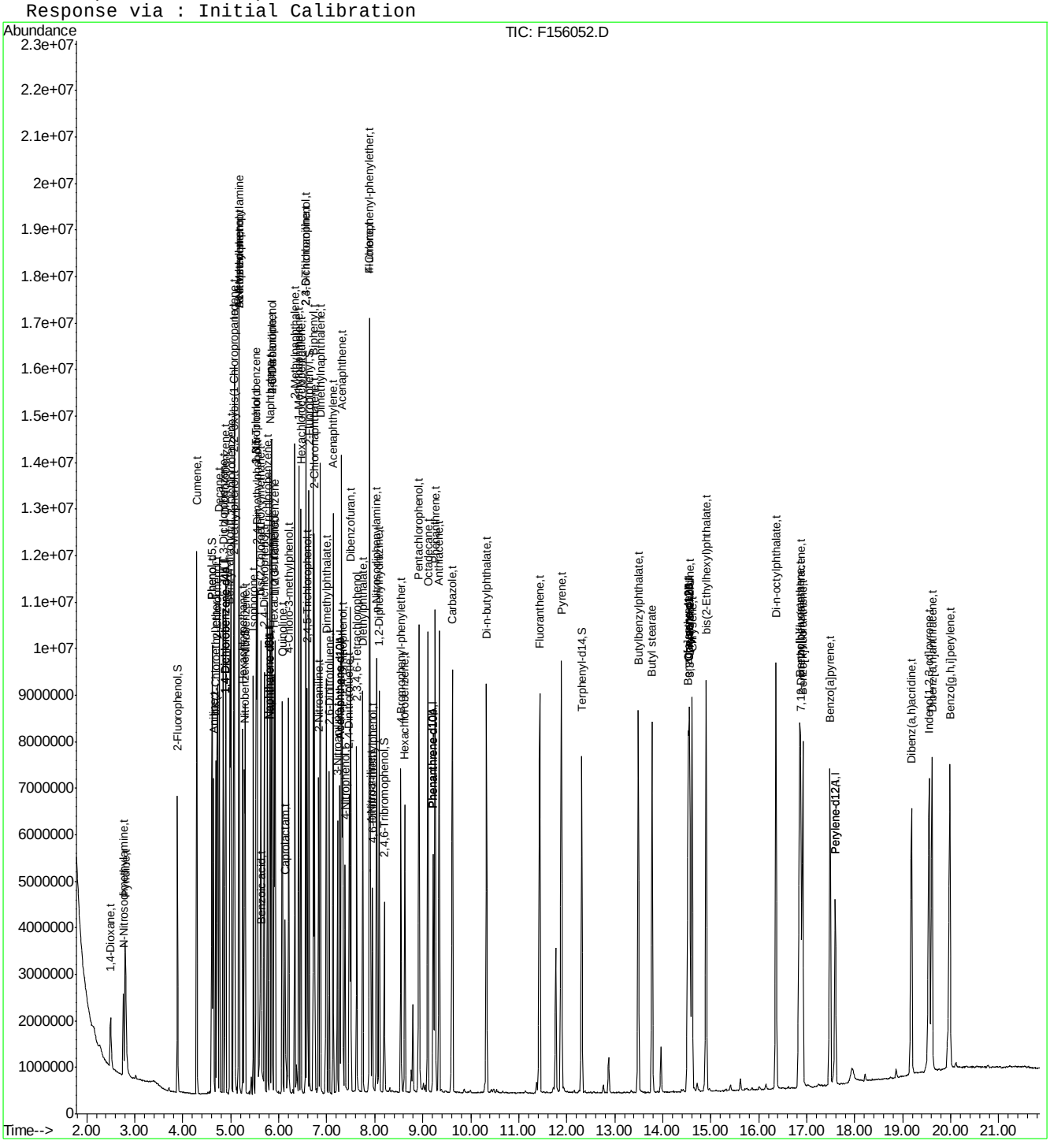
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156052.D Vial: 3
Acq On : 4 Apr 2016 7:38 pm Operator: sarad
Sample : ic6563-80 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:44 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:42:42 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	871983	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3243593	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1949962	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	3159351	40.00	ppm	0.00
83) Chrysene-d12	14.55	240	2526174	40.00	ppm	0.00
92) Perylene-d12	17.59	264	2502949	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	871983	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3243593	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1949962	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	3159351	40.00	ppm	0.00
147) Chrysene-d12A	14.55	240	2526174	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	2502949	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	871983	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3243593	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1949962	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	3159351	40.00	ppm	0.00
167) Chrysene-d12b	14.55	240	2526174	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	871983	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3243593	40.00	ppm	0.00
176) Chrysene-d12c	14.55	240	2526174	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	3243593	40.00	ppm	0.15
180) Chrysene-d12B	14.55	240	2526174	40.00	ppm	0.24
System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1510498	51.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.70%	
8) Phenol-d5	4.60	99	1817034	51.78	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.56%	
25) Nitrobenzene-d5	5.28	82	1513443	51.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.92%	
51) 2-Fluorobiphenyl	6.63	172	2889575	53.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	106.36%	
73) 2,4,6-Tribromophenol	8.20	330	329797	52.51	ppm	0.00
Spiked Amount 50.000			Recovery	=	105.02%	
85) Terphenyl-d14	12.31	244	2605068	51.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.12%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	666778	53.27	ppm	95
3) Pyridine	2.79	79	1603285	49.91	ppm	100
4) N-Nitrosodimethylamine	2.76	42	564202	48.48	ppm	99
6) Indene	5.07	116	2405863	54.15	ppm	100
7) Cumene	4.29	105	3327601	52.82	ppm	100
9) Phenol	4.61	94	1896418	49.61	ppm	93
10) Aniline	4.64	93	1964758	52.52	ppm	100
11) bis(2-Chloroethyl)ether	4.69	93	1387751	51.78	ppm	100
12) 2-Chlorophenol	4.72	128	1558857	52.35	ppm	100
13) Decane	4.76	43	1282990	52.59	ppm	100
14) 1,3-Dichlorobenzene	4.84	146	1715893	52.65	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	1704630	52.36	ppm	100

(#) = qualifier out of range (m) = manual integration
F156053.D MF6563.M Tue Apr 05 08:47:21 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.98	108	999116	51.84	ppm	100
17) 1,2-Dichlorobenzene	5.01	146	1596681	53.45	ppm	100
18) Acetophenone	5.17	105	1790578	53.79	ppm	100
19) 2-Methylphenol	5.05	108	1349727	52.72	ppm	100
20) 2,2'-oxybis(1-Chloropropan	5.08	121	483612	53.06	ppm	100
21) 3&4-Methylphenol	5.17	108	1347184	53.62	ppm	100
22) n-Nitroso-di-n-propylamine	5.17	70	974183	51.88	ppm	100
23) Hexachloroethane	5.25	201	533108	52.39	ppm	100
26) Nitrobenzene	5.29	77	1579979	52.28	ppm	100
27) Quinoline	6.07	129	3039806	51.77	ppm	100
28) Isophorone	5.47	82	2628484	52.49	ppm	100
29) 2-Nitrophenol	5.52	139	809389	53.21	ppm	100
30) 2,4-Dimethylphenol	5.55	107	1338514	51.29	ppm	100
31) Benzoic acid	5.63	105	1201010	51.15	ppm	100
32) bis(2-Chloroethoxy)methane	5.62	93	1622282	52.42	ppm	100
33) 2,4-Dichlorophenol	5.70	162	1261730	52.70	ppm	100
34) 2,6-Dichlorophenol	5.86	162	1160131	53.80	ppm	100
35) 1,3,5-Trichlorobenzene	5.54	180	1261006	54.58	ppm	100
36) 1,2,4-Trichlorobenzene	5.76	180	1289139	53.60	ppm	100
37) 1,2,3-Trichlorobenzene	5.92	180	1268943	54.02	ppm	100
38) Naphthalene	5.82	128	4111706	55.69	ppm	100
39) 4-Chloroaniline	5.85	127	1678939	54.09	ppm	100
40) 2,3-Dichloroaniline	6.56	161	1346445	54.16	ppm	100
41) Caprolactam	6.12	55	613796	50.85	ppm	100
42) Hexachlorobutadiene	5.90	225	599845	53.79	ppm	100
43) 4-Chloro-3-methylphenol	6.20	107	1251313	52.01	ppm	100
44) 2-Methylnaphthalene	6.33	141	2358934	53.60	ppm	100
45) 1-Methylnaphthalene	6.41	141	2439588	53.80	ppm	100
46) Dimethylnaphthalene	6.86	156	2476399	53.97	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	1305240	108.31	ppm	100
49) 2,4,6-Trichlorophenol	6.56	196	762268	55.01	ppm	100
50) 2,4,5-Trichlorophenol	6.59	196	869436	51.31	ppm	100
52) 2-Chloronaphthalene	6.74	162	2649514	53.04	ppm	100
53) Biphenyl	6.72	154	3366639	53.89	ppm	100
54) 2-Nitroaniline	6.82	65	814469	51.05	ppm	100
55) Dimethylphthalate	6.99	163	3008660	52.28	ppm	100
56) Acenaphthylene	7.13	152	4284263	53.44	ppm	100
57) 2,6-Dinitrotoluene	7.05	165	698403	51.69	ppm	100
58) 3-Nitroaniline	7.22	138	861937	51.14	ppm	100
59) Acenaphthene	7.31	153	2658055	53.13	ppm	100
60) 2,4-Dinitrophenol	7.32	184	800604	99.05	ppm	100
61) 4-Nitrophenol	7.37	109	412116	48.92	ppm	100
62) Dibenzofuran	7.49	168	3640302	52.85	ppm	100
63) 2,4-Dinitrotoluene	7.46	165	948033	51.11	ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.62	232	680751	51.90	ppm	100
65) Diethylphthalate	7.75	149	3011705	52.38	ppm	100
66) Fluorene	7.89	166	2684681	53.69	ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	1162378	54.17	ppm	100
68) 4-Nitroaniline	7.91	138	850105	50.32	ppm	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:46:02 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	547100	50.35	ppm	100
71)	n-Nitrosodiphenylamine	8.04	169	2171178	52.74	ppm	100
72)	1,2-Diphenylhydrazine	8.09	77	3056349	51.97	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	721480	52.41	ppm	100
75)	Hexachlorobenzene	8.63	284	694643	52.78	ppm	100
76)	Pentachlorophenol	8.92	266	969858	106.48	ppm	100
77)	Phenanthrene	9.25	178	4222158	52.83	ppm	100
78)	Anthracene	9.34	178	4326567	53.10	ppm	100
79)	Carbazole	9.61	167	4045902	52.22	ppm	100
80)	Di-n-butylphthalate	10.33	149	5229224	52.88	ppm	100
81)	Fluoranthene	11.43	202	4365246	52.41	ppm	100
82)	Octadecane	9.10	57	1802615	53.07	ppm	100
84)	Pyrene	11.88	202	4516342	51.43	ppm	100
86)	Butylbenzylphthalate	13.49	149	2294077	50.29	ppm	100
87)	Butyl stearate	13.77	56	1294518	51.40	ppm	100
88)	Benzo[a]anthracene	14.53	228	3822200	50.86	ppm	100
89)	3,3'-Dichlorobenzidine	14.56	252	1356731	49.67	ppm	100
90)	Chrysene	14.61	228	3796706	50.96	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.90	149	3222419	50.85	ppm	100
93)	Di-n-octylphthalate	16.35	149	5703091	52.56	ppm	100
94)	Benzo[b]fluoranthene	16.84	252	3787237	51.78	ppm	98
95)	Benzo[k]fluoranthene	16.91	252	3710262	52.01	ppm	98
96)	Benzo[a]pyrene	17.48	252	3518005	52.01	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.54	276	3276791	51.83	ppm	100
98)	Dibenz(a,h)acridine	19.18	279	2819743	51.70	ppm	100
99)	Dibenz[a,h]anthracene	19.60	278	3172655	50.59	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.87	256	1624656	52.42	ppm	100
101)	Benzo[g,h,i]perylene	19.98	276	3454887	51.57	ppm	100

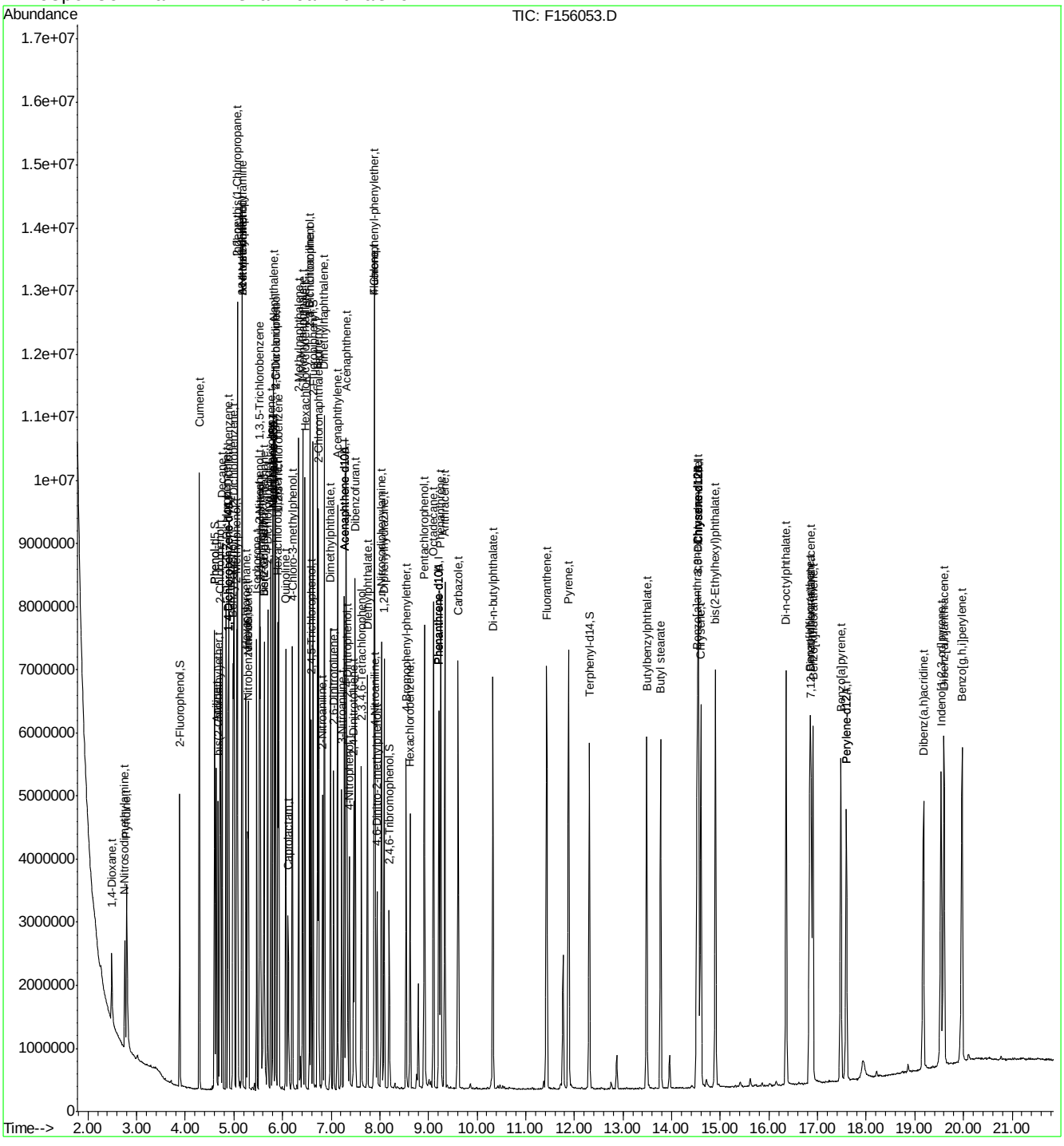
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156053.D Vial: 4
Acq On : 4 Apr 2016 8:07 pm Operator: sarad
Sample : icc6563-50 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:47 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:46:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	863972	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3172306	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1883448	40.00 ppm	0.00
69) Phenanthrene-d10	9.22	188	3035235	40.00 ppm	0.00
83) Chrysene-d12	14.54	240	2628411	40.00 ppm	0.00
92) Perylene-d12	17.59	264	2496395	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	863972	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3172306	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1883448	40.00 ppm	0.00
132) Phenanthrene-d10A	9.22	188	3035235	40.00 ppm	0.00
147) Chrysene-d12A	14.54	240	2628411	40.00 ppm	0.00
155) Perylene-d12A	17.59	264	2496395	40.00 ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	863972	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3172306	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1883448	40.00 ppm	0.00
165) Phenanthrene-d10b	9.22	188	3035235	40.00 ppm	0.00
167) Chrysene-d12b	14.54	240	2628411	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	863972	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3172306	40.00 ppm	0.00
176) Chrysene-d12c	14.54	240	2628411	40.00 ppm	0.00
178) Naphthalene-d8a	5.80	136	3172306	40.00 ppm	0.15
180) Chrysene-d12B	14.54	240	2628411	40.00 ppm	0.24

System Monitoring Compounds					
5) 2-Fluorophenol	3.88	112	752440	25.82 ppm	0.00
Spiked Amount 50.000			Recovery = 51.64%		
8) Phenol-d5	4.60	99	912194	26.24 ppm	0.00
Spiked Amount 50.000			Recovery = 52.48%		
25) Nitrobenzene-d5	5.28	82	742392	26.06 ppm	0.00
Spiked Amount 50.000			Recovery = 52.12%		
51) 2-Fluorobiphenyl	6.63	172	1516539	28.90 ppm	0.00
Spiked Amount 50.000			Recovery = 57.80%		
73) 2,4,6-Tribromophenol	8.19	330	156688	25.97 ppm	0.00
Spiked Amount 50.000			Recovery = 51.94%		
85) Terphenyl-d14	12.30	244	1350753	25.70 ppm	0.00
Spiked Amount 50.000			Recovery = 51.40%		

Target Compounds					Qvalue
2) 1,4-Dioxane	2.49	88	300998	24.02 ppm	92
3) Pyridine	2.79	79	803322	25.24 ppm	97
4) N-Nitrosodimethylamine	2.76	42	267516	24.06 ppm	91
6) Indene	5.07	116	1283677	29.16 ppm	99
7) Cumene	4.29	105	1729204	27.70 ppm	99
9) Phenol	4.61	94	960339	25.36 ppm	88
10) Aniline	4.63	93	1040023	28.06 ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	693596	26.12 ppm	98
12) 2-Chlorophenol	4.72	128	794091	26.91 ppm	97
13) Decane	4.76	43	685617	28.36 ppm	98
14) 1,3-Dichlorobenzene	4.84	146	888469	27.51 ppm	98
15) 1,4-Dichlorobenzene	4.89	146	886953	27.50 ppm	97

(#) = qualifier out of range (m) = manual integration
F156054.D MF6563.M Tue Apr 05 08:55:03 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
16) Benzyl alcohol	4.97	108	502295	26.30 ppm	98
17) 1,2-Dichlorobenzene	5.01	146	840153	28.38 ppm	98
18) Acetophenone	5.17	105	971192	29.45 ppm	89
19) 2-Methylphenol	5.05	108	686123	27.05 ppm	97
20) 2,2'-oxybis(1-Chloropropan	5.08	121	246770	27.32 ppm	99
21) 3&4-Methylphenol	5.16	108	709224	28.49 ppm	99
22) n-Nitroso-di-n-propylamine	5.17	70	507230	27.26 ppm	99
23) Hexachloroethane	5.25	201	272875	27.06 ppm	96
26) Nitrobenzene	5.29	77	787089	26.64 ppm	95
27) Quinoline	6.06	129	1538109	26.79 ppm	98
28) Isophorone	5.47	82	1342384	27.41 ppm	98
29) 2-Nitrophenol	5.52	139	416350	27.99 ppm	96
30) 2,4-Dimethylphenol	5.55	107	634238	24.85 ppm	98
31) Benzoic acid	5.61	105	560004	24.39 ppm	94
32) bis(2-Chloroethoxy)methane	5.62	93	828882	27.39 ppm	99
33) 2,4-Dichlorophenol	5.70	162	644033	27.51 ppm	97
34) 2,6-Dichlorophenol	5.86	162	612096	29.02 ppm	98
35) 1,3,5-Trichlorobenzene	5.54	180	673723	29.81 ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	660441	28.08 ppm	98
37) 1,2,3-Trichlorobenzene	5.92	180	642498	27.96 ppm	100
38) Naphthalene	5.82	128	2197280	30.43 ppm	98
39) 4-Chloroaniline	5.85	127	899321	29.62 ppm	97
40) 2,3-Dichloroaniline	6.56	161	746079	30.69 ppm	99
41) Caprolactam	6.10	55	301563	25.55 ppm	98
42) Hexachlorobutadiene	5.90	225	317763	29.13 ppm	99
43) 4-Chloro-3-methylphenol	6.20	107	625695	26.59 ppm	98
44) 2-Methylnaphthalene	6.33	141	1231532	28.61 ppm	99
45) 1-Methylnaphthalene	6.41	141	1267730	28.59 ppm	99
46) Dimethylnaphthalene	6.86	156	1299211	28.95 ppm	98
48) Hexachlorocyclopentadiene	6.46	237	688873	59.18 ppm	99
49) 2,4,6-Trichlorophenol	6.56	196	398885	29.80 ppm	97
50) 2,4,5-Trichlorophenol	6.59	196	444742	27.13 ppm	99
52) 2-Chloronaphthalene	6.74	162	1358812	28.16 ppm	97
53) Biphenyl	6.72	154	1783507	29.56 ppm	99
54) 2-Nitroaniline	6.82	65	394873	25.62 ppm	91
55) Dimethylphthalate	6.98	163	1540455	27.71 ppm	99
56) Acenaphthylene	7.13	152	2244918	28.99 ppm	99
57) 2,6-Dinitrotoluene	7.05	165	338348	25.93 ppm	91
58) 3-Nitroaniline	7.21	138	432182	26.55 ppm	97
59) Acenaphthene	7.30	153	1404418	29.06 ppm	99
60) 2,4-Dinitrophenol	7.32	184	362949	46.49 ppm	85
61) 4-Nitrophenol	7.37	109	201885	25.03 ppm	97
62) Dibenzofuran	7.49	168	1900959	28.57 ppm	97
63) 2,4-Dinitrotoluene	7.46	165	472912	26.39 ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.62	232	342001	27.00 ppm	97
65) Diethylphthalate	7.74	149	1515673	27.29 ppm	99
66) Fluorene	7.89	166	1468152	30.40 ppm	100
67) 4-Chlorophenyl-phenylether	7.89	204	635326	30.66 ppm	98
68) 4-Nitroaniline	7.90	138	421135	25.81 ppm	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:51:15 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.94	198	246086	23.58	ppm	97
71)	n-Nitrosodiphenylamine	8.03	169	1095544	27.70	ppm	98
72)	1,2-Diphenylhydrazine	8.09	77	1514394	26.80	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	374041	28.28	ppm	96
75)	Hexachlorobenzene	8.62	284	344952	27.28	ppm	95
76)	Pentachlorophenol	8.91	266	505532	57.77	ppm	98
77)	Phenanthrene	9.25	178	2198868	28.64	ppm	98
78)	Anthracene	9.33	178	2208822	28.27	ppm	100
79)	Carbazole	9.61	167	2104374	28.33	ppm	98
80)	Di-n-butylphthalate	10.32	149	2655403	27.95	ppm	100
81)	Fluoranthene	11.43	202	2205706	27.57	ppm	100
82)	Octadecane	9.10	57	918139	28.14	ppm	99
84)	Pyrene	11.88	202	2354708	25.79	ppm	99
86)	Butylbenzylphthalate	13.48	149	1160576	24.47	ppm	99
87)	Butyl stearate	13.77	56	647006	24.74	ppm	98
88)	Benzo[a]anthracene	14.52	228	1967547	25.14	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	702116	24.70	ppm	98
90)	Chrysene	14.60	228	1973288	25.50	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	1641094	24.90	ppm	100
93)	Di-n-octylphthalate	16.35	149	2891187	26.74	ppm	100
94)	Benzo[b]fluoranthene	16.83	252	1957203	27.04	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	1936392	27.42	ppm	98
96)	Benzo[a]pyrene	17.47	252	1798129	26.71	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	1680946	26.64	ppm	96
98)	Dibenz(a,h)acridine	19.17	279	1452033	26.68	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	1627629	26.33	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.86	256	823820	26.64	ppm	99
101)	Benzo[g,h,i]perylene	19.96	276	1813089	27.19	ppm	98

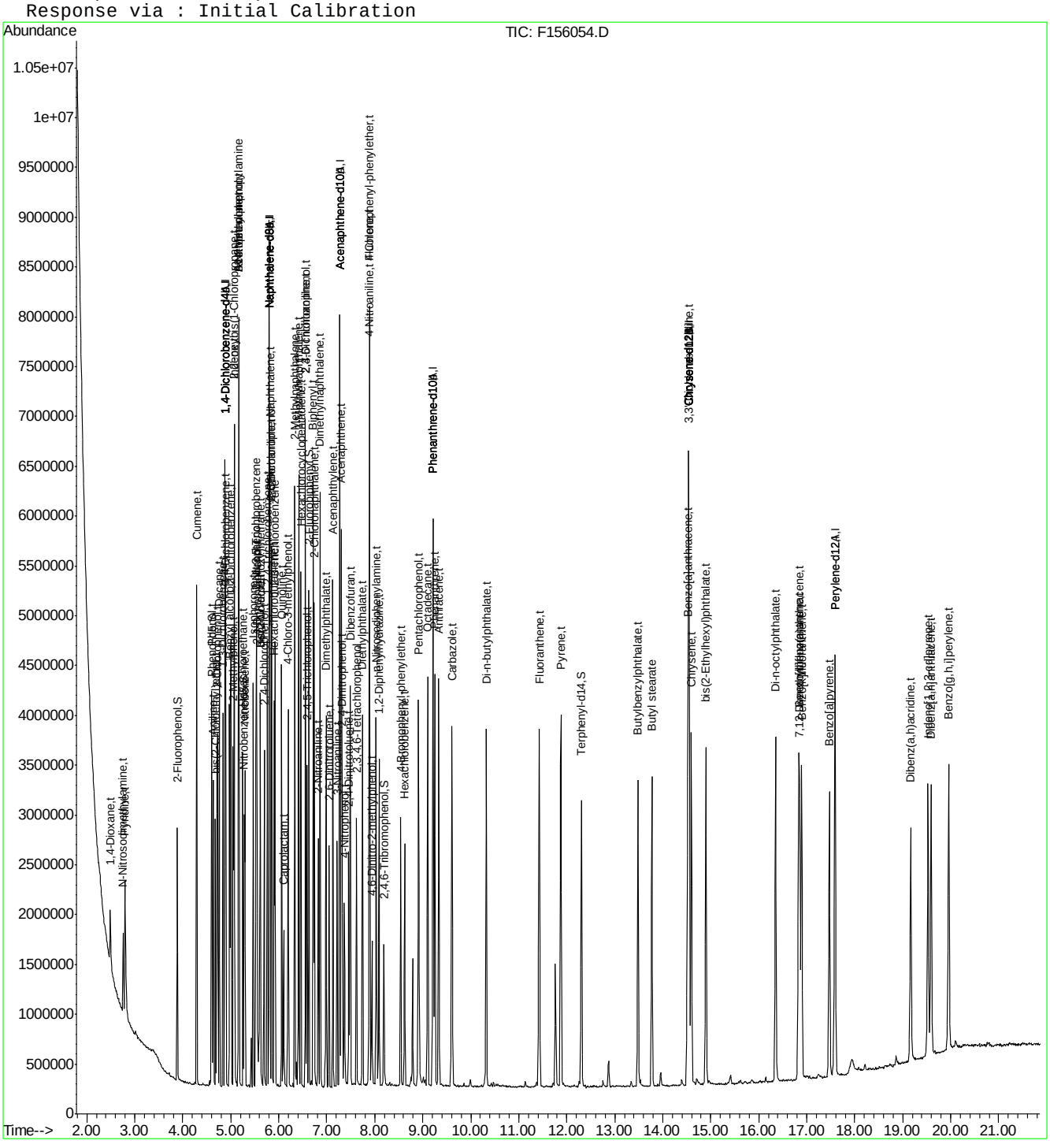
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156054.D Vial: 5
Acq On : 4 Apr 2016 8:37 pm Operator: sarad
Sample : ic6563-25 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:54 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:51:13 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	905594	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3313258	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1977563	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3195086	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2841277	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2625091	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	905594	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3313258	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1977563	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3195086	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2841277	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2625091	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	905594	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3313258	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1977563	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3195086	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2841277	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	905594	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3313258	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2841277	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3313258	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2841277	40.00	ppm	0.23
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	318354	10.42	ppm	0.00
Spiked Amount 50.000			Recovery = 20.84%			
8) Phenol-d5	4.60	99	398798	10.95	ppm	0.00
Spiked Amount 50.000			Recovery = 21.90%			
25) Nitrobenzene-d5	5.28	82	320247	10.73	ppm	0.00
Spiked Amount 50.000			Recovery = 21.46%			
51) 2-Fluorobiphenyl	6.63	172	673076	12.20	ppm	0.00
Spiked Amount 50.000			Recovery = 24.40%			
73) 2,4,6-Tribromophenol	8.19	330	66985	10.52	ppm	0.00
Spiked Amount 50.000			Recovery = 21.04%			
85) Terphenyl-d14	12.30	244	580883	10.26	ppm	0.00
Spiked Amount 50.000			Recovery = 20.52%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	156183	11.86	ppm	97
3) Pyridine	2.80	79	349091	10.51	ppm	99
4) N-Nitrosodimethylamine	2.76	42	113073	8.87	ppm	97
6) Indene	5.07	116	570276	12.31	ppm	100
7) Cumene	4.29	105	746757	11.46	ppm	99
9) Phenol	4.61	94	411742	10.58	ppm	94
10) Aniline	4.63	93	477431	12.36	ppm	99
11) bis(2-Chloroethyl)ether	4.68	93	302414	10.87	ppm	98
12) 2-Chlorophenol	4.72	128	344498	11.11	ppm	96
13) Decane	4.76	43	298455	11.75	ppm	97
14) 1,3-Dichlorobenzene	4.84	146	391842	11.55	ppm	97
15) 1,4-Dichlorobenzene	4.89	146	393136	11.63	ppm	99

(#) = qualifier out of range (m) = manual integration
F156055.D MF6563.M Tue Apr 05 08:56:35 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	222777	11.09	ppm		97
17)	1,2-Dichlorobenzene	5.00	146	367366	11.76	ppm		98
18)	Acetophenone	5.17	105	439501	12.65	ppm		95
19)	2-Methylphenol	5.05	108	299562	11.25	ppm		99
20)	2,2'-oxybis(1-Chloropropan	5.08	121	107662	11.31	ppm		96
21)	3&4-Methylphenol	5.16	108	316195	12.07	ppm		99
22)	n-Nitroso-di-n-propylamine	5.17	70	227077	11.63	ppm		98
23)	Hexachloroethane	5.25	201	116924	11.06	ppm		95
26)	Nitrobenzene	5.29	77	340147	11.00	ppm		92
27)	Quinoline	6.06	129	667853	11.17	ppm		99
28)	Isophorone	5.47	82	580700	11.34	ppm		100
29)	2-Nitrophenol	5.52	139	179684	11.51	ppm		92
30)	2,4-Dimethylphenol	5.55	107	267013	10.04	ppm		96
31)	Benzoic acid	5.59	105	225890	9.65	ppm	#	74
32)	bis(2-Chloroethoxy)methane	5.62	93	364338	11.51	ppm		98
33)	2,4-Dichlorophenol	5.69	162	279178	11.41	ppm		97
34)	2,6-Dichlorophenol	5.86	162	271818	12.30	ppm		96
35)	1,3,5-Trichlorobenzene	5.54	180	299476	12.56	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	289266	11.74	ppm		99
37)	1,2,3-Trichlorobenzene	5.92	180	280336	11.61	ppm		99
38)	Naphthalene	5.82	128	990453	13.07	ppm		98
39)	4-Chloroaniline	5.85	127	411341	12.93	ppm		96
40)	2,3-Dichloroaniline	6.56	161	341826	13.40	ppm		97
41)	Caprolactam	6.09	55	128773	10.52	ppm		95
42)	Hexachlorobutadiene	5.90	225	137961	12.09	ppm		97
43)	4-Chloro-3-methylphenol	6.19	107	271558	11.09	ppm		99
44)	2-Methylnaphthalene	6.33	141	549250	12.17	ppm		98
45)	1-Methylnaphthalene	6.41	141	562852	12.07	ppm		98
46)	Dimethylnaphthalene	6.86	156	568349	12.07	ppm		97
48)	Hexachlorocyclopentadiene	6.46	237	295404	24.10	ppm		100
49)	2,4,6-Trichlorophenol	6.56	196	183214	12.96	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	189673	11.13	ppm		98
52)	2-Chloronaphthalene	6.74	162	606809	11.97	ppm		99
53)	Biphenyl	6.72	154	783724	12.33	ppm		98
54)	2-Nitroaniline	6.82	65	168174	10.45	ppm		93
55)	Dimethylphthalate	6.98	163	669711	11.52	ppm		99
56)	Acenaphthylene	7.13	152	984619	12.17	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	144184	10.56	ppm		99
58)	3-Nitroaniline	7.21	138	181727	10.69	ppm		93
59)	Acenaphthene	7.30	153	609405	12.01	ppm		99
60)	2,4-Dinitrophenol	7.32	184	130327	16.05	ppm		78
61)	4-Nitrophenol	7.36	109	80472	9.48	ppm		94
62)	Dibenzofuran	7.49	168	843891	12.09	ppm		98
63)	2,4-Dinitrotoluene	7.46	165	195395	10.45	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.62	232	145578	11.02	ppm		97
65)	Diethylphthalate	7.74	149	649860	11.15	ppm		98
66)	Fluorene	7.89	166	666627	13.13	ppm		97
67)	4-Chlorophenyl-phenylether	7.89	204	292638	13.39	ppm		95
68)	4-Nitroaniline	7.89	138	183728	10.82	ppm		96

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:11 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	92062	8.42	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	476719	11.47	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	657054	11.05	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	158586	11.44	ppm	96
75)	Hexachlorobenzene	8.62	284	153731	11.57	ppm	97
76)	Pentachlorophenol	8.91	266	205675	22.30	ppm	95
77)	Phenanthrene	9.25	178	978306	12.14	ppm	98
78)	Anthracene	9.33	178	967667	11.73	ppm	99
79)	Carbazole	9.61	167	912387	11.65	ppm	99
80)	Di-n-butylphthalate	10.32	149	1128842	11.33	ppm	100
81)	Fluoranthene	11.42	202	946511	11.26	ppm	100
82)	Octadecane	9.10	57	398210	11.52	ppm	98
84)	Pyrene	11.87	202	1015323	10.30	ppm	99
86)	Butylbenzylphthalate	13.48	149	485601	9.54	ppm	97
87)	Butyl stearate	13.77	56	271564	9.58	ppm	99
88)	Benzo[a]anthracene	14.52	228	842177	10.03	ppm	99
89)	3,3'-Dichlorobenzidine	14.55	252	303885	10.00	ppm	98
90)	Chrysene	14.59	228	857826	10.30	ppm	100
91)	bis(2-Ethylhexyl)phthalate	14.89	149	683429	9.60	ppm	97
93)	Di-n-octylphthalate	16.35	149	1196588	10.50	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	846094	11.04	ppm	98
95)	Benzo[k]fluoranthene	16.89	252	829903	10.90	ppm	99
96)	Benzo[a]pyrene	17.46	252	754900	10.63	ppm	98
97)	Indeno[1,2,3-cd]pyrene	19.52	276	702662	10.64	ppm	94
98)	Dibenz(a,h)acridine	19.16	279	610277	10.70	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	696447	10.67	ppm	97
100)	7,12-Dimethylbenz(a)anthra	16.84	256	325014	10.04	ppm	99
101)	Benzo[g,h,i]perylene	19.95	276	764066	10.94	ppm	97

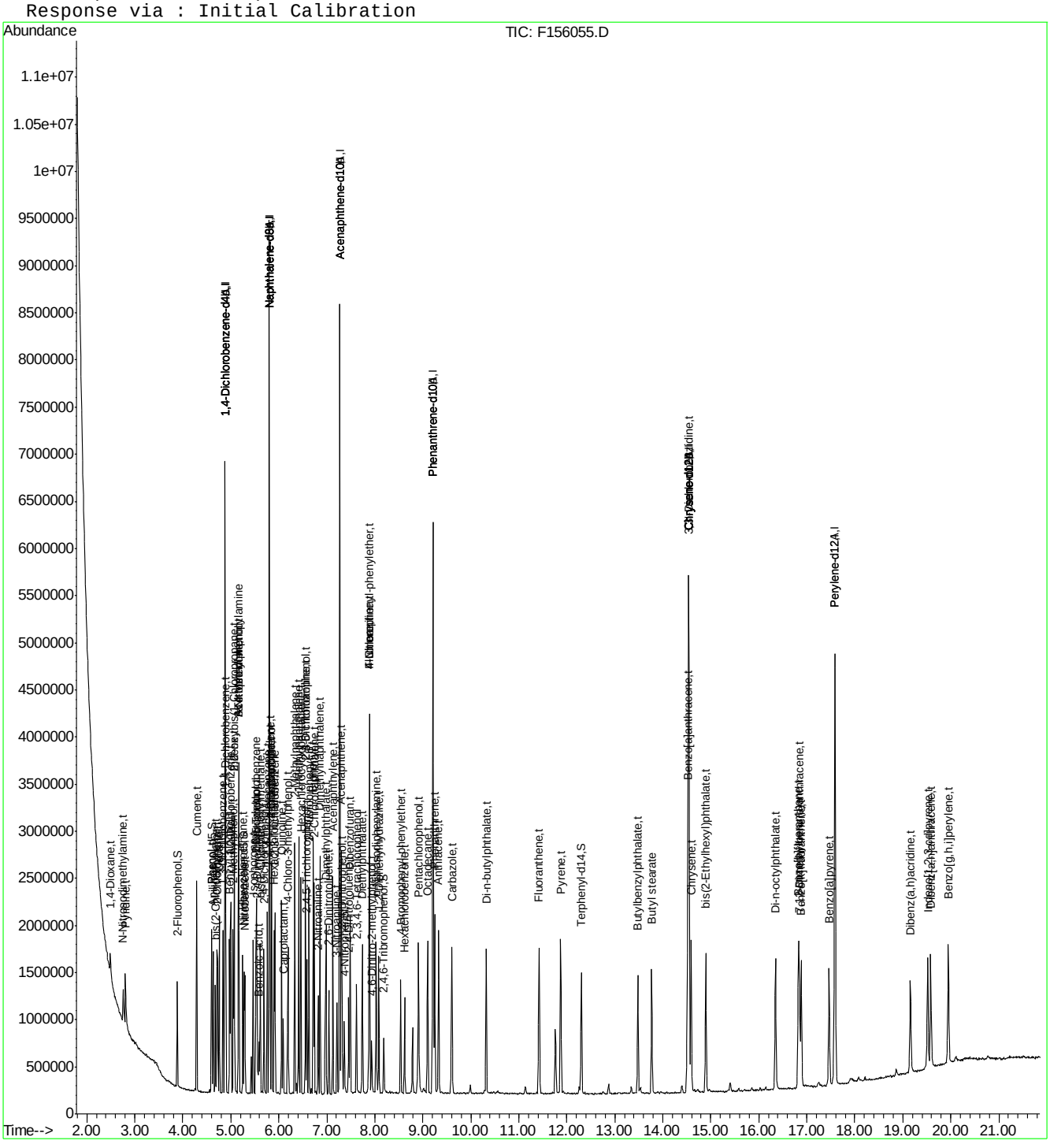
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156055.D Vial: 6
Acq On : 4 Apr 2016 9:06 pm Operator: sarad
Sample : ic6563-10 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:56 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:55:08 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	931507	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3436758	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2021007	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3225697	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2893026	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2659500	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	931507	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3436758	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2021007	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3225697	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2893026	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2659500	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	931507	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3436758	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2021007	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3225697	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2893026	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	931507	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3436758	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2893026	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3436758	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2893026	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	171255	5.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.90%	
8) Phenol-d5	4.59	99	207335	5.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.06%	
25) Nitrobenzene-d5	5.28	82	169051	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
51) 2-Fluorobiphenyl	6.63	172	352630	6.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.50%	
73) 2,4,6-Tribromophenol	8.18	330	34343	5.34	ppm	-0.01
Spiked Amount 50.000			Recovery	=	10.68%	
85) Terphenyl-d14	12.30	244	301180	5.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.44%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.49	88	87752	6.48	ppm	95
3) Pyridine	2.81	79	176084	5.15	ppm	98
4) N-Nitrosodimethylamine	2.76	42	63395	4.83	ppm	96
6) Indene	5.07	116	305528	6.41	ppm	99
7) Cumene	4.29	105	397141	5.93	ppm	97
9) Phenol	4.61	94	216569	5.41	ppm	93
10) Aniline	4.63	93	257505	6.48	ppm	92
11) bis(2-Chloroethyl)ether	4.68	93	162439	5.68	ppm	99
12) 2-Chlorophenol	4.72	128	184524	5.79	ppm	98
13) Decane	4.76	43	158573	6.07	ppm	95
14) 1,3-Dichlorobenzene	4.84	146	203800	5.84	ppm	100
15) 1,4-Dichlorobenzene	4.89	146	208865	6.01	ppm	96

(#) = qualifier out of range (m) = manual integration
F156056.D MF6563.M Tue Apr 05 08:57:58 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	115910	5.61	ppm		97
17) 1,2-Dichlorobenzene	5.00	146	195335	6.08	ppm		98
18) Acetophenone	5.17	105	235469	6.59	ppm		92
19) 2-Methylphenol	5.05	108	157196	5.74	ppm		98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	59923	6.12	ppm		93
21) 3&4-Methylphenol	5.16	108	167369	6.21	ppm		98
22) n-Nitroso-di-n-propylamine	5.17	70	123649	6.16	ppm		95
23) Hexachloroethane	5.25	201	63788	5.87	ppm		90
26) Nitrobenzene	5.29	77	179935	5.61	ppm		98
27) Quinoline	6.06	129	349968	5.64	ppm		99
28) Isophorone	5.46	82	306735	5.78	ppm		96
29) 2-Nitrophenol	5.52	139	94069	5.81	ppm		92
30) 2,4-Dimethylphenol	5.55	107	139481	5.06	ppm		94
31) Benzoic acid	5.57	105	114126	4.70	ppm		91
32) bis(2-Chloroethoxy)methane	5.62	93	195998	5.97	ppm		98
33) 2,4-Dichlorophenol	5.69	162	145285	5.72	ppm		97
34) 2,6-Dichlorophenol	5.86	162	144546	6.31	ppm		99
35) 1,3,5-Trichlorobenzene	5.53	180	164116	6.64	ppm		96
36) 1,2,4-Trichlorobenzene	5.76	180	152578	5.97	ppm		98
37) 1,2,3-Trichlorobenzene	5.92	180	151509	6.05	ppm		97
38) Naphthalene	5.82	128	525580	6.69	ppm		99
39) 4-Chloroaniline	5.85	127	217464	6.59	ppm		98
40) 2,3-Dichloroaniline	6.56	161	176515	6.67	ppm		98
41) Caprolactam	6.09	55	64409	5.07	ppm		94
42) Hexachlorobutadiene	5.90	225	70966	5.99	ppm		97
43) 4-Chloro-3-methylphenol	6.19	107	146701	5.78	ppm		99
44) 2-Methylnaphthalene	6.33	141	291321	6.22	ppm		95
45) 1-Methylnaphthalene	6.41	141	300622	6.22	ppm		97
46) Dimethylnaphthalene	6.85	156	305639	6.26	ppm		98
48) Hexachlorocyclopentadiene	6.46	237	149951	11.97	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	95389	6.60	ppm		96
50) 2,4,5-Trichlorophenol	6.58	196	102296	5.88	ppm		96
52) 2-Chloronaphthalene	6.74	162	320335	6.19	ppm		98
53) Biphenyl	6.72	154	413488	6.37	ppm		98
54) 2-Nitroaniline	6.82	65	87377	5.31	ppm		100
55) Dimethylphthalate	6.98	163	349340	5.88	ppm		100
56) Acenaphthylene	7.13	152	517726	6.26	ppm		98
57) 2,6-Dinitrotoluene	7.04	165	73798	5.29	ppm		94
58) 3-Nitroaniline	7.21	138	91856	5.28	ppm		96
59) Acenaphthene	7.30	153	332260	6.41	ppm		99
60) 2,4-Dinitrophenol	7.31	184	55130	6.64	ppm	#	24
61) 4-Nitrophenol	7.36	109	41361	4.77	ppm		98
62) Dibenzofuran	7.49	168	449077	6.29	ppm		96
63) 2,4-Dinitrotoluene	7.46	165	100620	5.26	ppm		77
64) 2,3,4,6-Tetrachlorophenol	7.62	232	75026	5.56	ppm		98
65) Diethylphthalate	7.74	149	340318	5.71	ppm		98
66) Fluorene	7.89	166	360051	6.94	ppm		97
67) 4-Chlorophenyl-phenylether	7.89	204	156209	7.00	ppm		90
68) 4-Nitroaniline	7.89	138	94299	5.44	ppm		96

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:13 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	40513	3.67	ppm	96
71)	n-Nitrosodiphenylamine	8.02	169	253978	6.05	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	341978	5.70	ppm	98
74)	4-Bromophenyl-phenylether	8.54	248	85099	6.08	ppm	94
75)	Hexachlorobenzene	8.62	284	81969	6.11	ppm	94
76)	Pentachlorophenol	8.91	266	106497	11.44	ppm	99
77)	Phenanthrene	9.25	178	508086	6.24	ppm	99
78)	Anthracene	9.33	178	512709	6.16	ppm	99
79)	Carbazole	9.60	167	468870	5.93	ppm	100
80)	Di-n-butylphthalate	10.32	149	589128	5.86	ppm	99
81)	Fluoranthene	11.42	202	495066	5.83	ppm	99
82)	Octadecane	9.10	57	206521	5.92	ppm	99
84)	Pyrene	11.87	202	528440	5.27	ppm	98
86)	Butylbenzylphthalate	13.48	149	250816	4.84	ppm	97
87)	Butyl stearate	13.77	56	136234	4.72	ppm	99
88)	Benzo[a]anthracene	14.52	228	433302	5.07	ppm	97
89)	3,3'-Dichlorobenzidine	14.55	252	156108	5.05	ppm	98
90)	Chrysene	14.59	228	448785	5.29	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	341191	4.71	ppm	96
93)	Di-n-octylphthalate	16.35	149	604939	5.24	ppm	98
94)	Benzo[b]fluoranthene	16.82	252	435201	5.61	ppm	99
95)	Benzo[k]fluoranthene	16.88	252	414541	5.37	ppm	99
96)	Benzo[a]pyrene	17.46	252	392090	5.45	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	353891	5.29	ppm	91
98)	Dibenz(a,h)acridine	19.16	279	308931	5.34	ppm	100
99)	Dibenz[a,h]anthracene	19.58	278	347003	5.25	ppm	95
100)	7,12-Dimethylbenz(a)anthra	16.84	256	162841	4.97	ppm	96
101)	Benzo[g,h,i]perylene	19.94	276	392199	5.54	ppm	96

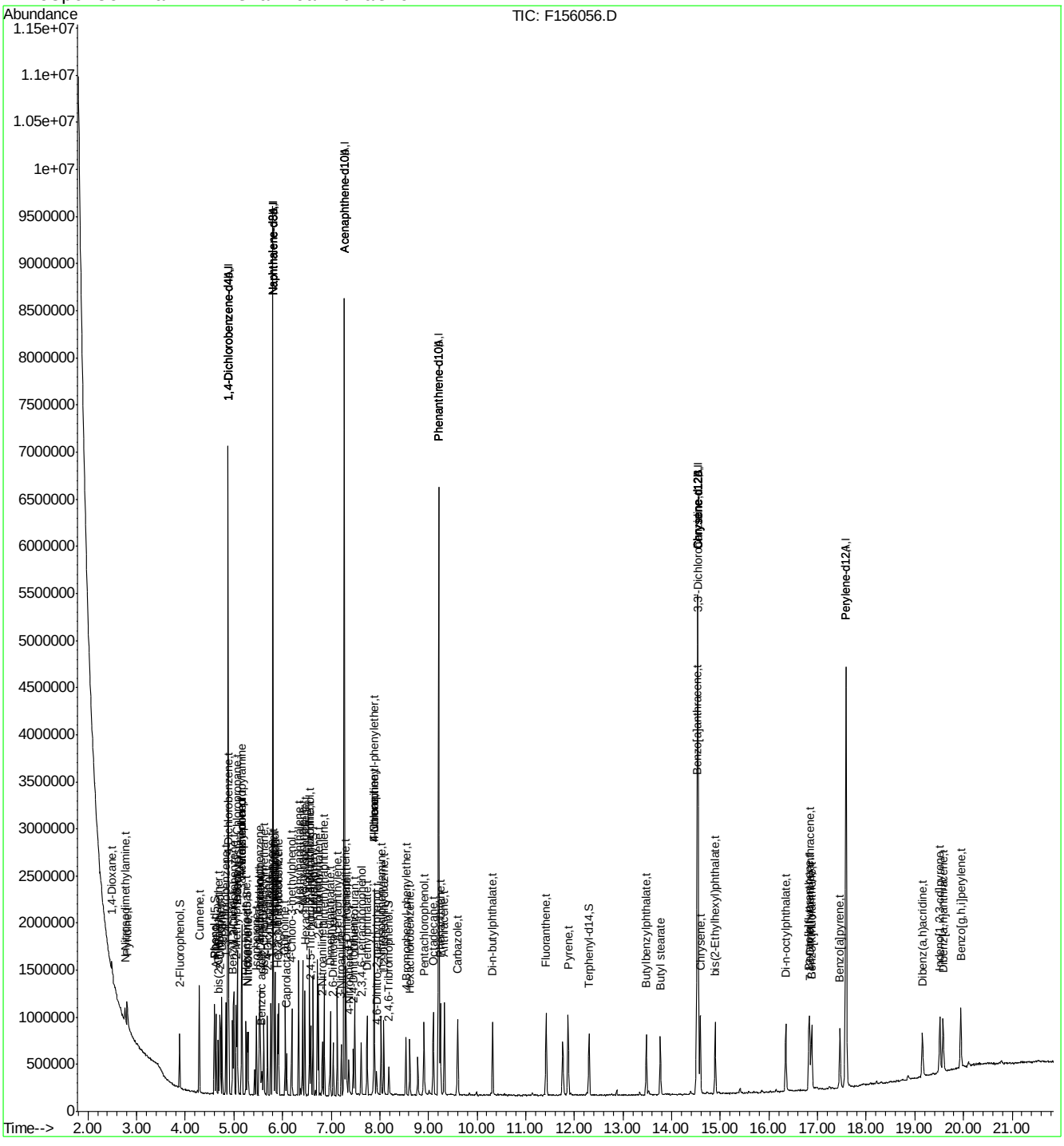
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156056.D Vial: 7
Acq On : 4 Apr 2016 9:35 pm Operator: sarad
Sample : ic6563-5 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:57 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:56:42 2016
Response via : Initial Calibration



F156057.D

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	918307	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3392002	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1972367	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3182891	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2811338	40.00	ppm	-0.01
92) Perylene-d12	17.59	264	2583255	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	918307	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3392002	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1972367	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3182891	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2811338	40.00	ppm	-0.01
155) Perylene-d12A	17.59	264	2583255	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	918307	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3392002	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1972367	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3182891	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2811338	40.00	ppm	-0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	918307	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3392002	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2811338	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	3392002	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2811338	40.00	ppm	0.23

System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	67381	2.12	ppm	0.00
Spiked Amount 50.000			Recovery = 4.24%			
8) Phenol-d5	4.59	99	82796	2.15	ppm	0.00
Spiked Amount 50.000			Recovery = 4.30%			
25) Nitrobenzene-d5	5.28	82	64774	2.05	ppm	0.00
Spiked Amount 50.000			Recovery = 4.10%			
51) 2-Fluorobiphenyl	6.63	172	142064	2.34	ppm	0.00
Spiked Amount 50.000			Recovery = 4.68%			
73) 2,4,6-Tribromophenol	8.19	330	13619	2.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 4.20%			
85) Terphenyl-d14	12.30	244	115350	2.02	ppm	0.00
Spiked Amount 50.000			Recovery = 4.04%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.49	88	19952m	1.39	ppm		
3) Pyridine	2.82	79	62693	1.83	ppm		99
4) N-Nitrosodimethylamine	2.77	42	24930	2.11	ppm	#	71
6) Indene	5.07	116	122410	2.35	ppm		98
7) Cumene	4.29	105	157607	2.22	ppm		97
9) Phenol	4.60	94	87242	2.13	ppm		93
10) Aniline	4.63	93	104543	2.40	ppm		94
11) bis(2-Chloroethyl)ether	4.68	93	63459	2.15	ppm		100
12) 2-Chlorophenol	4.72	128	73140	2.20	ppm		98
13) Decane	4.76	43	65729	2.35	ppm		91
14) 1,3-Dichlorobenzene	4.84	146	81625	2.22	ppm		97
15) 1,4-Dichlorobenzene	4.89	146	80670	2.18	ppm		97

(#) = qualifier out of range (m) = manual integration
F156057.D MF6563.M Tue Apr 05 09:24:02 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.97	108	45980	2.16	ppm		95
17)	1,2-Dichlorobenzene	5.00	146	77388	2.26	ppm		98
18)	Acetophenone	5.17	105	92358	2.33	ppm		92
19)	2-Methylphenol	5.05	108	61550	2.15	ppm		98
20)	2,2'-oxybis(1-Chloropropan	5.08	121	23816	2.30	ppm	#	84
21)	3&4-Methylphenol	5.16	108	63995	2.20	ppm		92
22)	n-Nitroso-di-n-propylamine	5.17	70	50208	2.35	ppm		96
23)	Hexachloroethane	5.25	201	24892	2.19	ppm		93
26)	Nitrobenzene	5.29	77	67438	2.04	ppm		96
27)	Quinoline	6.05	129	138065	2.14	ppm		98
28)	Isophorone	5.46	82	117937	2.12	ppm		96
29)	2-Nitrophenol	5.52	139	34742	2.03	ppm		85
30)	2,4-Dimethylphenol	5.55	107	53800	1.97	ppm		97
31)	Benzoic acid	5.57	105	40367	1.69	ppm		94
32)	bis(2-Chloroethoxy)methane	5.62	93	77708	2.24	ppm		98
33)	2,4-Dichlorophenol	5.69	162	57101	2.14	ppm		97
34)	2,6-Dichlorophenol	5.86	162	57136	2.28	ppm		99
35)	1,3,5-Trichlorobenzene	5.53	180	63320	2.31	ppm		97
36)	1,2,4-Trichlorobenzene	5.76	180	60630	2.23	ppm		97
37)	1,2,3-Trichlorobenzene	5.92	180	61163	2.30	ppm		93
38)	Naphthalene	5.82	128	211027	2.39	ppm		97
39)	4-Chloroaniline	5.85	127	85275	2.32	ppm		99
40)	2,3-Dichloroaniline	6.56	161	72171	2.41	ppm		96
41)	Caprolactam	6.08	55	25731	2.01	ppm		98
42)	Hexachlorobutadiene	5.90	225	30238	2.37	ppm		96
43)	4-Chloro-3-methylphenol	6.19	107	53743	2.03	ppm		95
44)	2-Methylnaphthalene	6.33	141	116051	2.29	ppm		97
45)	1-Methylnaphthalene	6.41	141	118123	2.26	ppm		94
46)	Dimethylnaphthalene	6.86	156	119350	2.25	ppm		99
48)	Hexachlorocyclopentadiene	6.46	237	55624	4.15	ppm		96
49)	2,4,6-Trichlorophenol	6.56	196	38754	2.43	ppm		97
50)	2,4,5-Trichlorophenol	6.58	196	39267	2.16	ppm		92
52)	2-Chloronaphthalene	6.74	162	124816	2.26	ppm		97
53)	Biphenyl	6.72	154	163283	2.32	ppm		98
54)	2-Nitroaniline	6.82	65	32355	1.97	ppm		90
55)	Dimethylphthalate	6.98	163	137083	2.20	ppm		99
56)	Acenaphthylene	7.13	152	204353	2.29	ppm		98
57)	2,6-Dinitrotoluene	7.04	165	25658	1.83	ppm		98
58)	3-Nitroaniline	7.21	138	34477	1.96	ppm		97
59)	Acenaphthene	7.30	153	128608	2.29	ppm		97
60)	2,4-Dinitrophenol	7.32	184	15677	2.14	ppm	#	46
61)	4-Nitrophenol	7.36	109	15018	1.81	ppm		96
62)	Dibenzofuran	7.49	168	174267	2.27	ppm		98
63)	2,4-Dinitrotoluene	7.45	165	36684	1.91	ppm		98
64)	2,3,4,6-Tetrachlorophenol	7.62	232	28627	2.06	ppm		94
65)	Diethylphthalate	7.74	149	134572	2.19	ppm		98
66)	Fluorene	7.89	166	138455	2.37	ppm		99
67)	4-Chlorophenyl-phenylether	7.89	204	64851	2.57	ppm		91
68)	4-Nitroaniline	7.89	138	34880	1.98	ppm		91

(#) = qualifier out of range (m) = manual integration
F156057.D MF6563.M Tue Apr 05 09:24:02 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:16:53 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	11717	1.17	ppm	94
71)	n-Nitrosodiphenylamine	8.02	169	95889	2.15	ppm	96
72)	1,2-Diphenylhydrazine	8.08	77	131296	2.11	ppm	96
74)	4-Bromophenyl-phenylether	8.54	248	33407	2.23	ppm	97
75)	Hexachlorobenzene	8.62	284	31503	2.20	ppm	97
76)	Pentachlorophenol	8.91	266	39004	3.97	ppm	96
77)	Phenanthrene	9.25	178	200983	2.27	ppm	99
78)	Anthracene	9.33	178	198929	2.23	ppm	97
79)	Carbazole	9.60	167	184916	2.20	ppm	97
80)	Di-n-butylphthalate	10.32	149	219322	2.06	ppm	98
81)	Fluoranthene	11.42	202	190900	2.14	ppm	98
82)	Octadecane	9.10	57	77261	2.09	ppm	95
84)	Pyrene	11.87	202	201138	2.02	ppm	98
86)	Butylbenzylphthalate	13.48	149	92745	1.86	ppm	96
87)	Butyl stearate	13.76	56	47830	1.74	ppm	94
88)	Benzo[a]anthracene	14.52	228	177735	2.12	ppm	96
89)	3,3'-Dichlorobenzidine	14.55	252	58243	1.92	ppm	99
90)	Chrysene	14.59	228	172615	2.05	ppm	98
91)	bis(2-Ethylhexyl)phthalate	14.89	149	128666	1.86	ppm	95
93)	Di-n-octylphthalate	16.34	149	220603	1.92	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	162360	2.06	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	162400	2.11	ppm	98
96)	Benzo[a]pyrene	17.46	252	149619	2.07	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.52	276	137334	2.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	114274	1.96	ppm	98
99)	Dibenz[a,h]anthracene	19.58	278	132465	2.01	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.84	256	59468	1.84	ppm	91
101)	Benzo[g,h,i]perylene	19.94	276	148274	2.05	ppm	94

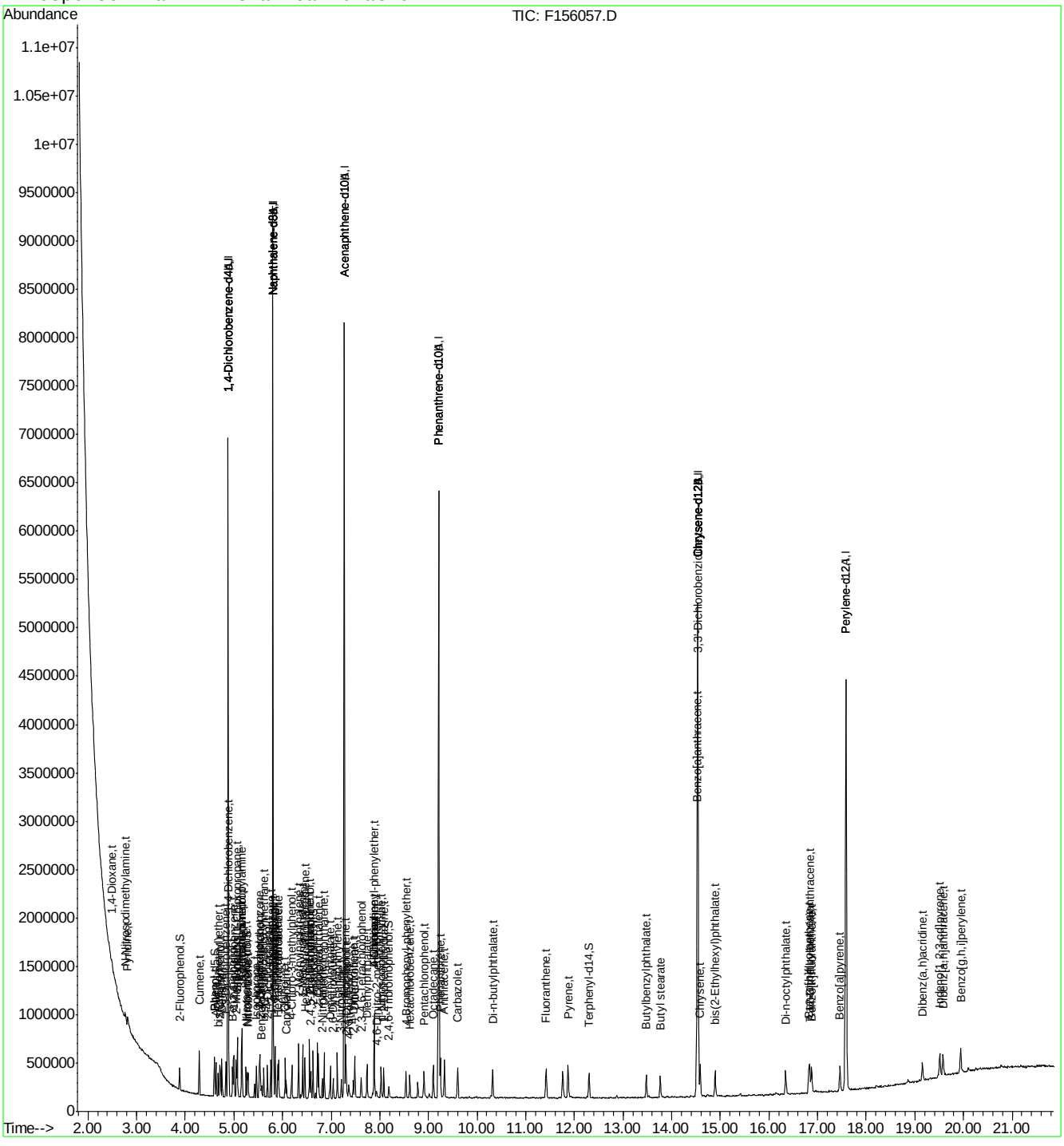
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:23 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:16:50 2016
Response via : Initial Calibration



Manual Integration Approval Summary

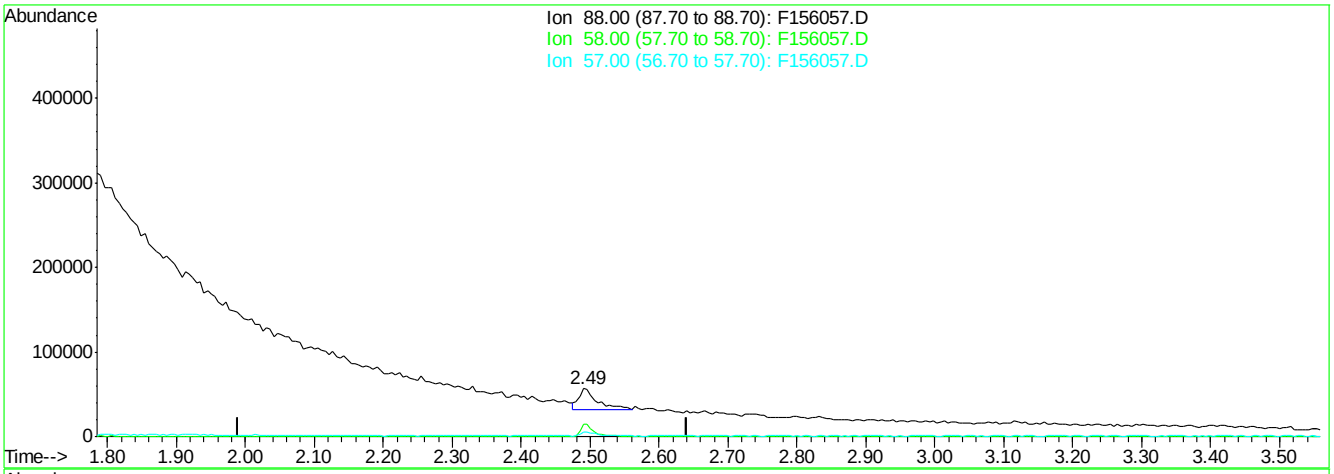
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156057.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:04	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

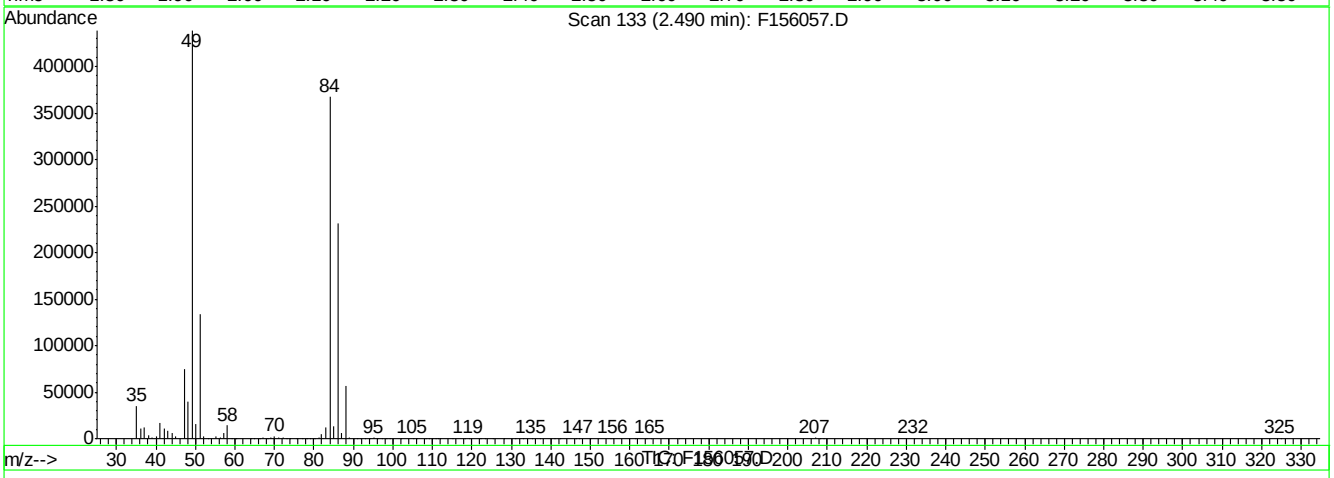
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.49	Poor instrument integration

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 3.04ppm

response 43525

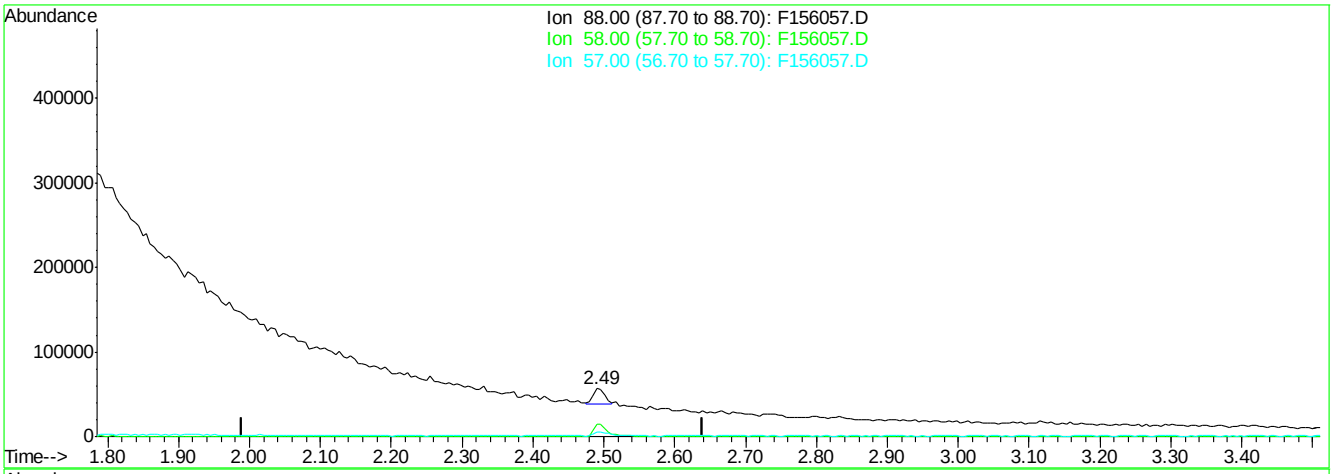
Ion	Exp%	Act%
88.00	100	100
58.00	66.20	68.89
57.00	21.10	24.74
0.00	0.00	0.00

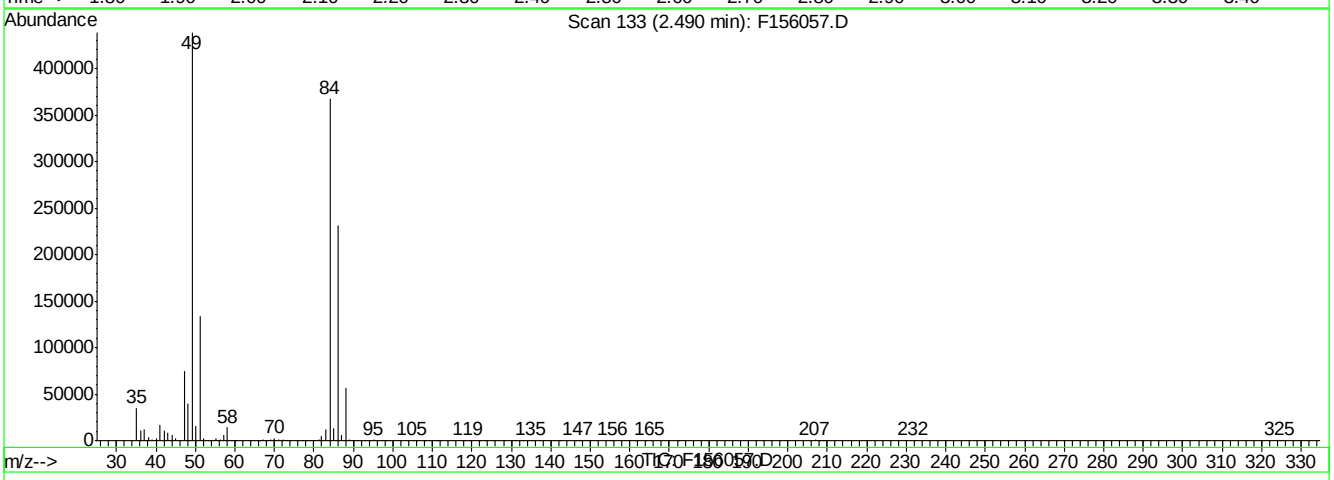
F156057.D MF6563.M Tue Apr 05 09:15:23 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156057.D Vial: 8
Acq On : 4 Apr 2016 10:04 pm Operator: sarad
Sample : ic6563-2 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:15 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:06:16 2016
Response via : Multiple Level Calibration





(2) 1,4-Dioxane (t)

2.49min 1.39ppm m

response 19952

Ion	Exp%	Act%
88.00	100	100
58.00	66.20	25.38#
57.00	21.10	10.38
0.00	0.00	0.00

F156057.D MF6563.M Tue Apr 05 09:15:29 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/06/16 15:11

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	925326	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3443301	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2022694	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3240274	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2829220	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2605308	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	925326	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3443301	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2022694	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3240274	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2829220	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2605308	40.00	ppm	-0.11
159) 1,4-Dichlorobenzene-d4b	4.88	152	925326	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3443301	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2022694	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3240274	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2829220	40.00	ppm	-0.02
169) 1,4-Dichlorobenzene-d4c	4.88	152	925326	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3443301	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2829220	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3443301	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2829220	40.00	ppm	0.22
System Monitoring Compounds						
5) 2-Fluorophenol	3.88	112	33942	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
8) Phenol-d5	4.60	99	42142	1.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.26%	
25) Nitrobenzene-d5	5.28	82	32224	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
51) 2-Fluorobiphenyl	6.63	172	69971	1.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.48%	
73) 2,4,6-Tribromophenol	8.19	330	6260	0.97	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.94%	
85) Terphenyl-d14	12.30	244	57004	1.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.02%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.50	88	18018m	1.34	ppm	
3) Pyridine	2.82	79	31114	0.92	ppm	89
4) N-Nitrosodimethylamine	2.77	42	13265	1.02	ppm	99
6) Indene	5.07	116	61038	1.29	ppm	98
7) Cumene	4.29	105	79272	1.19	ppm	99
9) Phenol	4.60	94	45104	1.13	ppm	96
10) Aniline	4.63	93	52526	1.33	ppm	95
11) bis(2-Chloroethyl)ether	4.68	93	32260	1.14	ppm	98
12) 2-Chlorophenol	4.72	128	37291	1.18	ppm	95
13) Decane	4.76	43	34278	1.32	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	41335	1.19	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	40166	1.16	ppm	95

(#) = qualifier out of range (m) = manual integration
F156058.D MF6563.M Tue Apr 05 09:25:39 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.97	108	23422	1.14	ppm		90
17) 1,2-Dichlorobenzene	5.00	146	39477	1.24	ppm		94
18) Acetophenone	5.17	105	45494	1.28	ppm		93
19) 2-Methylphenol	5.05	108	31635	1.16	ppm		95
20) 2,2'-oxybis(1-Chloropropan	5.08	121	12901	1.33	ppm	#	72
21) 3&4-Methylphenol	5.16	108	33244	1.24	ppm		96
22) n-Nitroso-di-n-propylamine	5.16	70	24292	1.22	ppm		96
23) Hexachloroethane	5.25	201	12952	1.20	ppm		91
26) Nitrobenzene	5.29	77	33402	1.04	ppm		98
27) Quinoline	6.05	129	69003	1.11	ppm		99
28) Isophorone	5.46	82	60703	1.14	ppm		98
29) 2-Nitrophenol	5.52	139	18094	1.11	ppm		86
30) 2,4-Dimethylphenol	5.55	107	26515	0.96	ppm		99
31) Benzoic acid	5.56	105	18143	0.75	ppm		84
32) bis(2-Chloroethoxy)methane	5.62	93	38876	1.18	ppm		97
33) 2,4-Dichlorophenol	5.69	162	28566	1.12	ppm		97
34) 2,6-Dichlorophenol	5.86	162	29724	1.29	ppm		97
35) 1,3,5-Trichlorobenzene	5.53	180	32487	1.31	ppm		98
36) 1,2,4-Trichlorobenzene	5.76	180	30670	1.20	ppm		97
37) 1,2,3-Trichlorobenzene	5.92	180	31037	1.24	ppm		96
38) Naphthalene	5.82	128	106291	1.35	ppm		90
39) 4-Chloroaniline	5.85	127	43078	1.30	ppm		98
40) 2,3-Dichloroaniline	6.56	161	37045	1.40	ppm		95
41) Caprolactam	6.07	55	13615	1.07	ppm		93
42) Hexachlorobutadiene	5.90	225	14417	1.22	ppm		96
43) 4-Chloro-3-methylphenol	6.19	107	27002	1.06	ppm		95
44) 2-Methylnaphthalene	6.33	141	56195	1.20	ppm		96
45) 1-Methylnaphthalene	6.41	141	58487	1.21	ppm		97
46) Dimethylnaphthalene	6.85	156	58934	1.20	ppm		93
48) Hexachlorocyclopentadiene	6.46	237	26262	2.09	ppm		99
49) 2,4,6-Trichlorophenol	6.56	196	19329	1.34	ppm		98
50) 2,4,5-Trichlorophenol	6.58	196	19243	1.10	ppm		95
52) 2-Chloronaphthalene	6.74	162	63561	1.23	ppm		98
53) Biphenyl	6.72	154	82740	1.27	ppm		97
54) 2-Nitroaniline	6.82	65	14621	0.89	ppm	#	80
55) Dimethylphthalate	6.98	163	69268	1.17	ppm		97
56) Acenaphthylene	7.13	152	102899	1.24	ppm		99
57) 2,6-Dinitrotoluene	7.04	165	13845	0.99	ppm		91
58) 3-Nitroaniline	7.21	138	15918	0.92	ppm		90
59) Acenaphthene	7.30	153	65211	1.26	ppm		96
60) 2,4-Dinitrophenol	7.32	184	5693	0.69	ppm	#	25
61) 4-Nitrophenol	7.36	109	7647	0.88	ppm		94
62) Dibenzofuran	7.49	168	88112	1.23	ppm		97
63) 2,4-Dinitrotoluene	7.45	165	16291	0.85	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.62	232	13911	1.03	ppm		91
65) Diethylphthalate	7.74	149	69487	1.17	ppm		97
66) Fluorene	7.89	166	70042	1.35	ppm		96
67) 4-Chlorophenyl-phenylether	7.89	204	31787	1.42	ppm		84
68) 4-Nitroaniline	7.89	138	16764	0.97	ppm		90

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 08:14:17 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 08:13:49 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.93	198	4799	0.43	ppm	92
71)	n-Nitrosodiphenylamine	8.02	169	49361	1.17	ppm	91
72)	1,2-Diphenylhydrazine	8.08	77	64939	1.08	ppm	97
74)	4-Bromophenyl-phenylether	8.54	248	16182	1.15	ppm	97
75)	Hexachlorobenzene	8.62	284	15706	1.17	ppm	96
76)	Pentachlorophenol	8.91	266	17082	1.83	ppm	94
77)	Phenanthrene	9.25	178	102369	1.25	ppm	98
78)	Anthracene	9.33	178	99583	1.19	ppm	98
79)	Carbazole	9.60	167	91266	1.15	ppm	97
80)	Di-n-butylphthalate	10.32	149	111956	1.11	ppm	97
81)	Fluoranthene	11.42	202	96469	1.13	ppm	98
82)	Octadecane	9.10	57	38528	1.10	ppm	95
84)	Pyrene	11.87	202	100822	1.03	ppm	94
86)	Butylbenzylphthalate	13.48	149	47051	0.93	ppm	93
87)	Butyl stearate	13.77	56	23594	0.84	ppm	93
88)	Benzo[a]anthracene	14.52	228	90088	1.08	ppm	96
89)	3,3'-Dichlorobenzidine	14.54	252	26697	0.88	ppm	83
90)	Chrysene	14.59	228	86595	1.04	ppm	93
91)	bis(2-Ethylhexyl)phthalate	14.89	149	63397	0.89	ppm	99
93)	Di-n-octylphthalate	16.34	149	105581	0.93	ppm	99
94)	Benzo[b]fluoranthene	16.82	252	84697	1.11	ppm	95
95)	Benzo[k]fluoranthene	16.88	252	83033	1.10	ppm	97
96)	Benzo[a]pyrene	17.46	252	76555	1.09	ppm	97
97)	Indeno[1,2,3-cd]pyrene	19.52	276	68054	1.04	ppm	96
98)	Dibenz(a,h)acridine	19.16	279	57503	1.02	ppm	99
99)	Dibenz[a,h]anthracene	19.57	278	61000	0.94	ppm	99
100)	7,12-Dimethylbenz(a)anthra	16.84	256	26148	0.81	ppm	98
101)	Benzo[g,h,i]perylene	19.94	276	76109	1.10	ppm	97

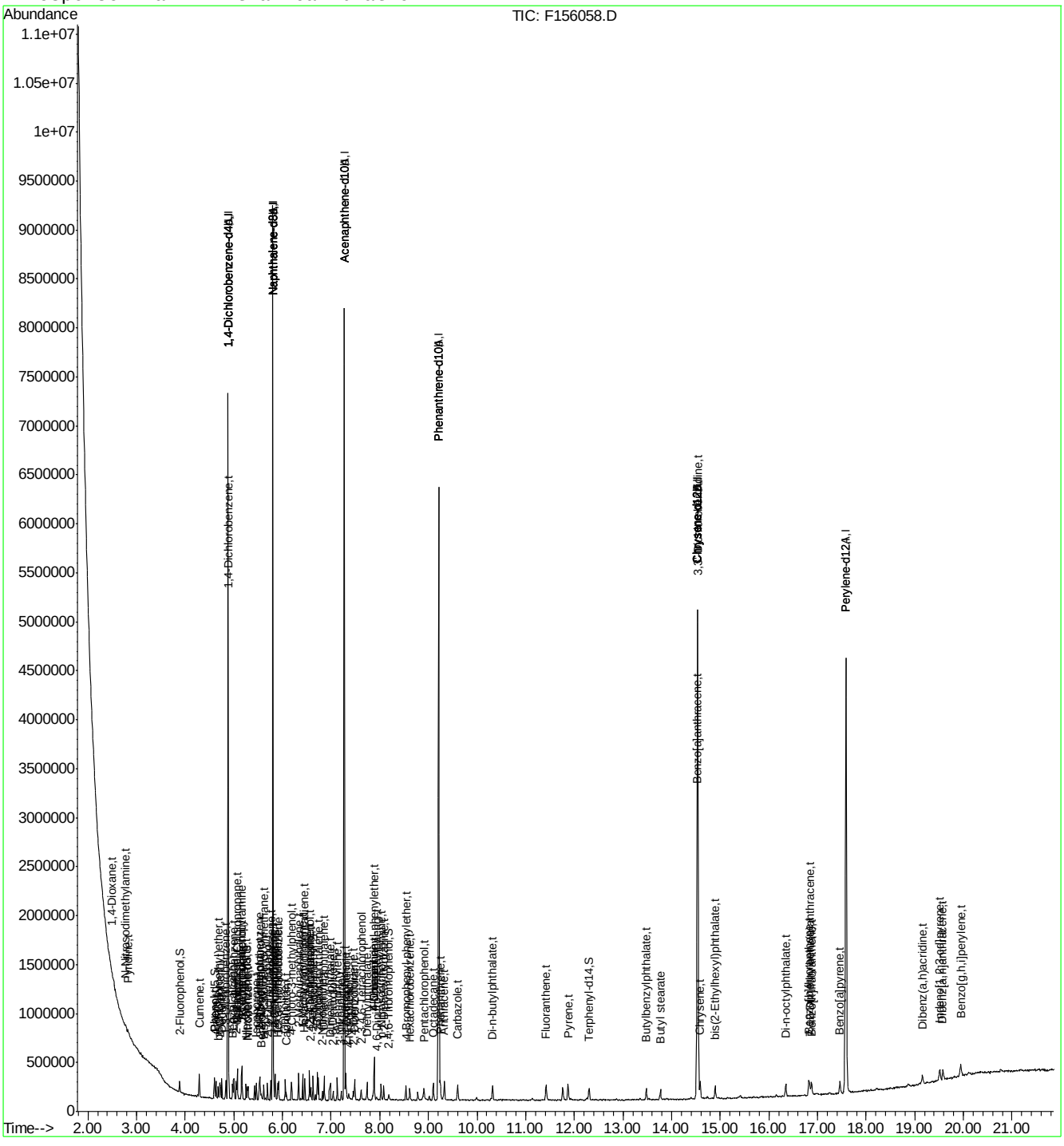
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:25 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Initial Calibration



Manual Integration Approval Summary

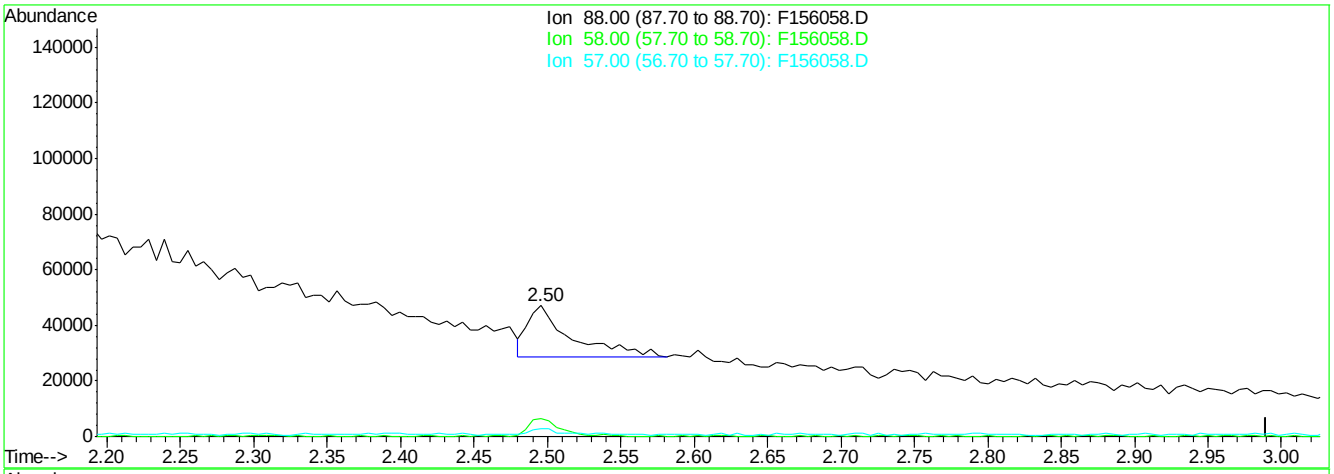
Sample Number:	EF6563-IC6563	**Method:**	SW846 8270D
Lab FileID:	F156058.D	**Analyst approved:**	04/06/16 08:21 Linsey Kirschmann
Injection Time:	04/04/16 22:33	**Supervisor approved:**	04/06/16 15:11 Kristi Schollenberger

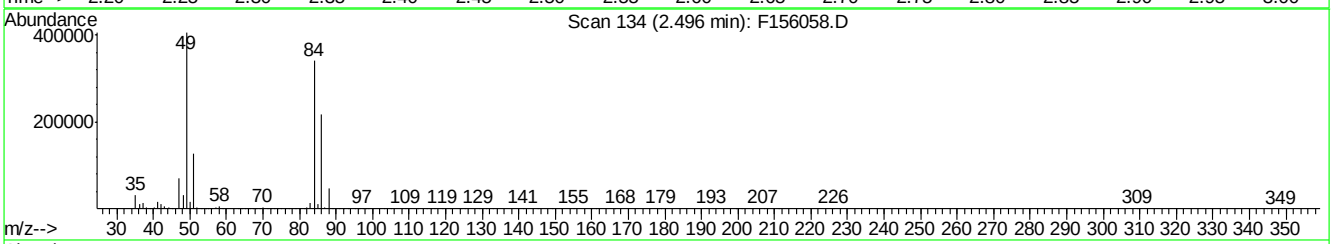
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		2.50	Poor instrument integration

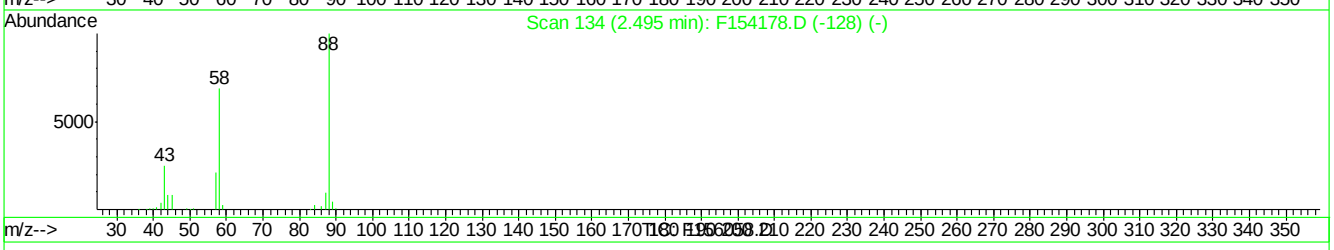
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 8:14 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 2.82ppm

response 37950

Ion	Exp%	Act%
88.00	100	100
58.00	61.80	40.90
57.00	19.90	13.02
0.00	0.00	0.00

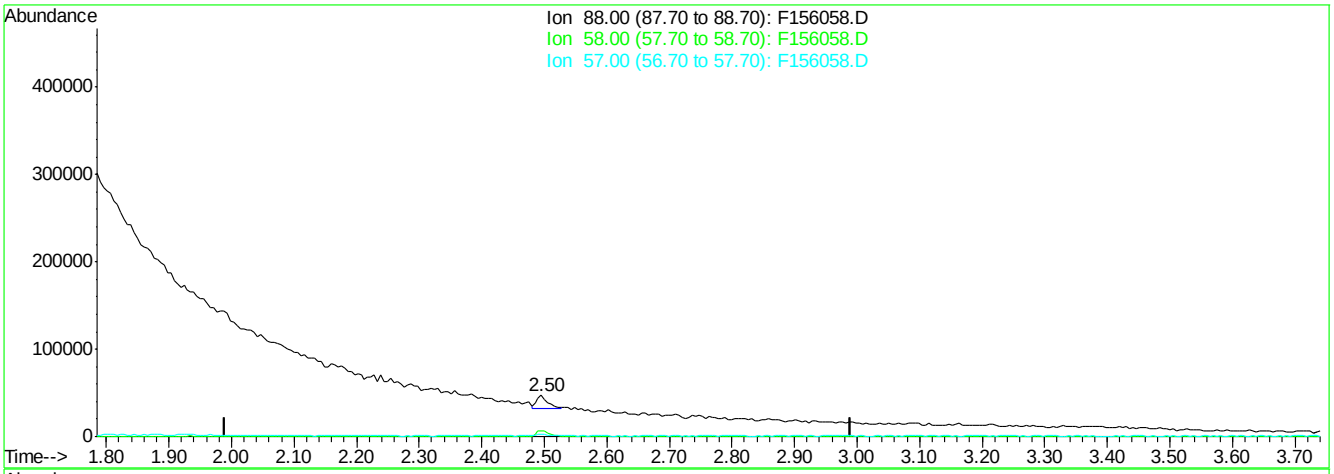
F156058.D MF6563.M Tue Apr 05 09:24:19 2016 RT1

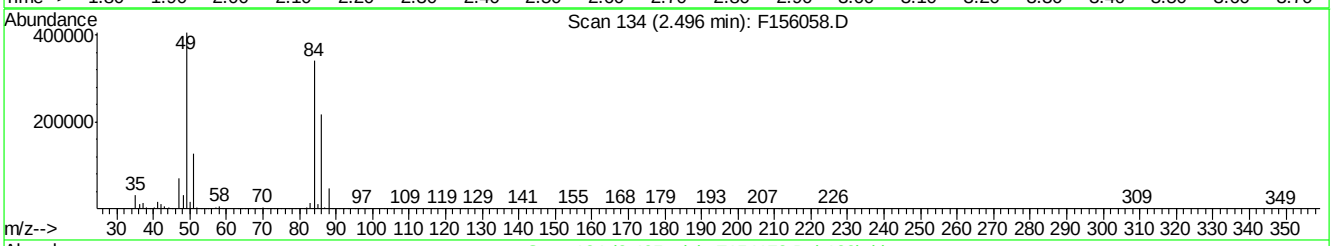
SGS ACCUTEST JC19214

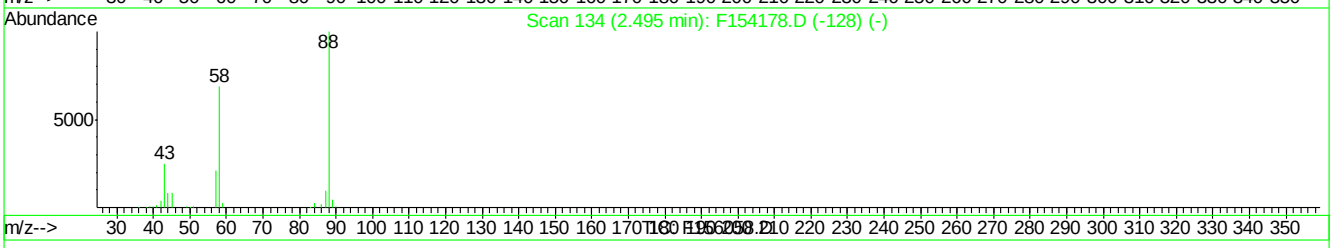
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6563\F156058.D Vial: 9
Acq On : 4 Apr 2016 10:33 pm Operator: sarad
Sample : ic6563-1 Inst : MSF
Misc : op92661,ef6563,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 9:24 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:24:11 2016
Response via : Multiple Level Calibration







(2) 1,4-Dioxane (t)

2.50min 1.34ppm m

response 18018

Ion	Exp%	Act%
88.00	100	100
58.00	61.80	13.73#
57.00	19.90	5.91
0.00	0.00	0.00

F156058.D MF6563.M Tue Apr 05 09:24:27 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:29 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	876019	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3330661	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1696591	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2963286	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2499519	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2399017	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	876019	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3330661	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1696591	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2963286	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2499519	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2399017	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	876019	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3330661	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1696591	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2963286	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2499519	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	876019	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3330661	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2499519	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3330661	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2499519	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

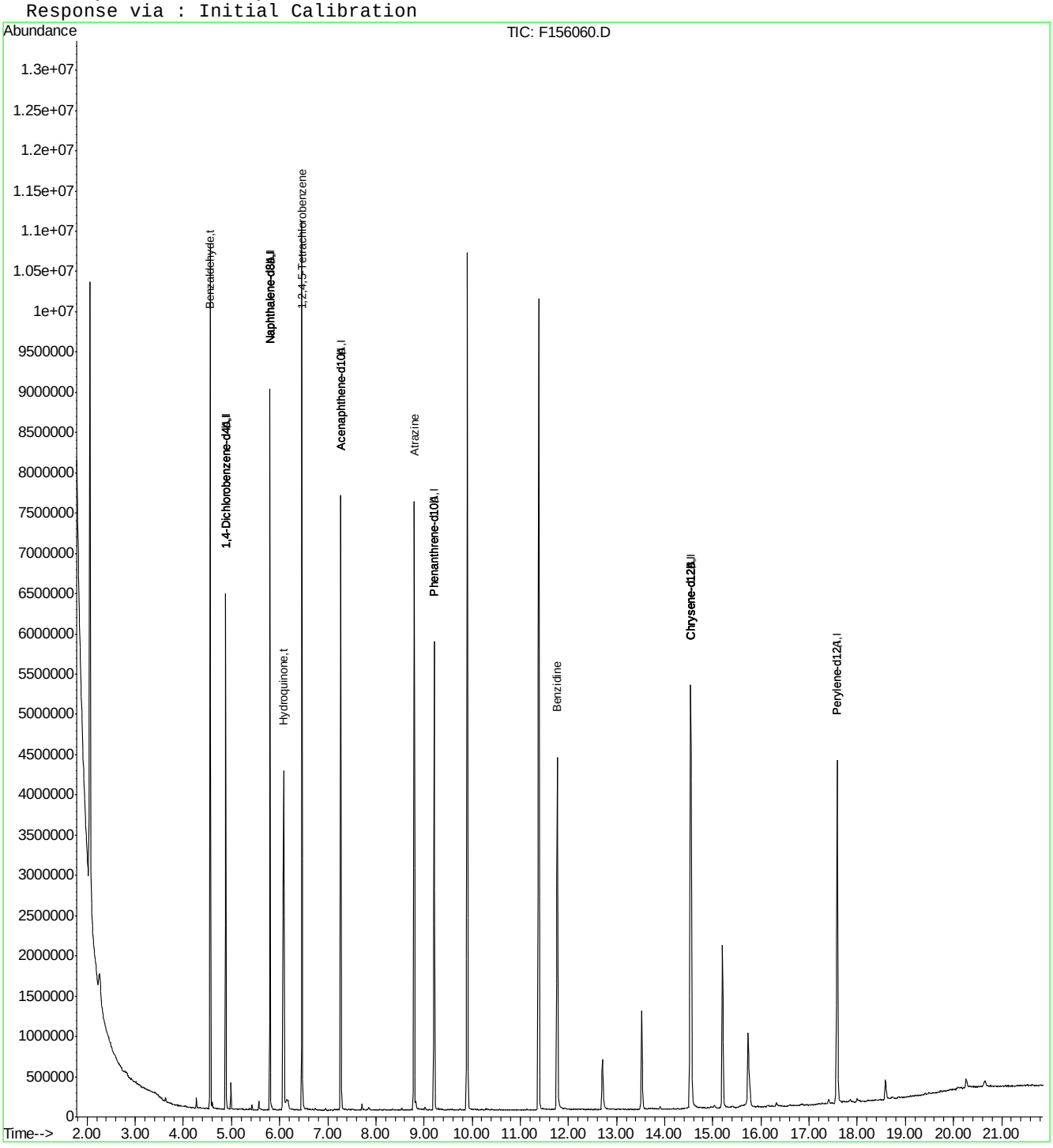
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1788383	100.00	ppm	94
162) Hydroquinone	6.09	110	2676489	100.00	ppm	97
164) 1,2,4,5-Tetrachlorobenzene	6.47	216	1866229	100.00	ppm	99
166) Atrazine	8.80	200	1246711	100.00	ppm	98
168) Benzidine	11.77	184	2751436	100.00	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156060.D MF6563.M Tue Apr 05 10:07:06 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156060.D Vial: 2
Acq On : 4 Apr 2016 11:27 pm Operator: sarad
Sample : ic6564-100 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156060.D MF6563.M Tue Apr 05 10:07:07 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:57 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	778045	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2974600	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1548244	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2777345	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2529147	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2444530	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	778045	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2974600	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1548244	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2777345	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2529147	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2444530	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	778045	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2974600	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1548244	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2777345	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2529147	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	778045	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2974600	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2529147	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2974600	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2529147	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

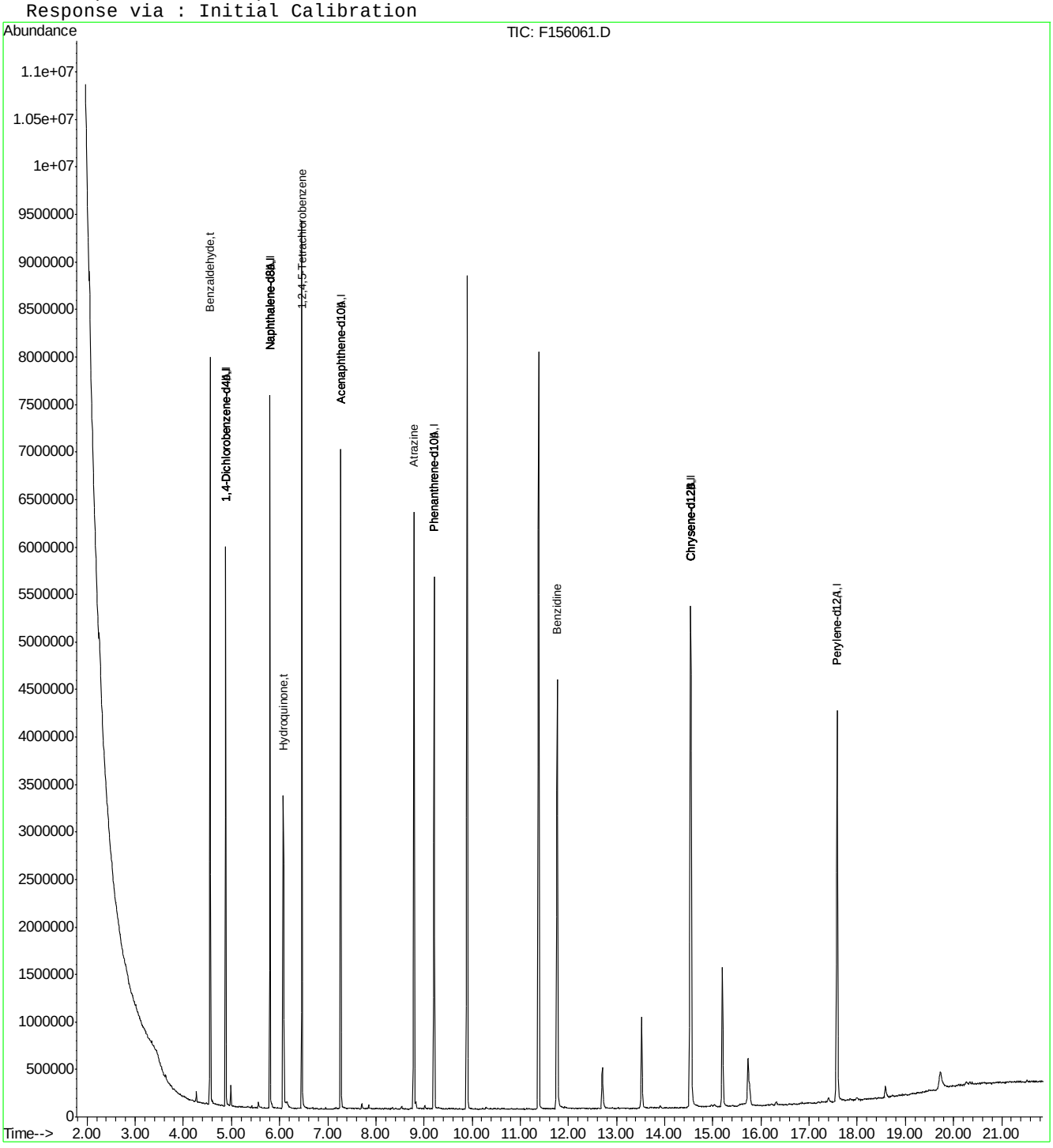
Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1480808	93.23	ppm	94
162) Hydroquinone	6.08	110	2074959	86.81	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1443307	84.75	ppm	99
166) Atrazine	8.79	200	988551	84.60	ppm	98
168) Benzidine	11.77	184	2902612	104.26	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156061.D Vial: 3
Acq On : 4 Apr 2016 11:56 pm Operator: sarad
Sample : ic6564-80 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:07 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156061.D MF6563.M Tue Apr 05 10:07:56 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:55:59 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	789682	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3030346	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1607375	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2850459	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2641342	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2578423	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	789682	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3030346	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1607375	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2850459	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2641342	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2578423	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	789682	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3030346	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1607375	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2850459	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2641342	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	789682	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3030346	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2641342	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3030346	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2641342	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1038509	64.42	ppm	95
162) Hydroquinone	6.07	110	1423940	58.47	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	995643	56.31	ppm	98
166) Atrazine	8.79	200	662708	55.26	ppm	97
168) Benzidine	11.76	184	2444021	84.06	ppm	98

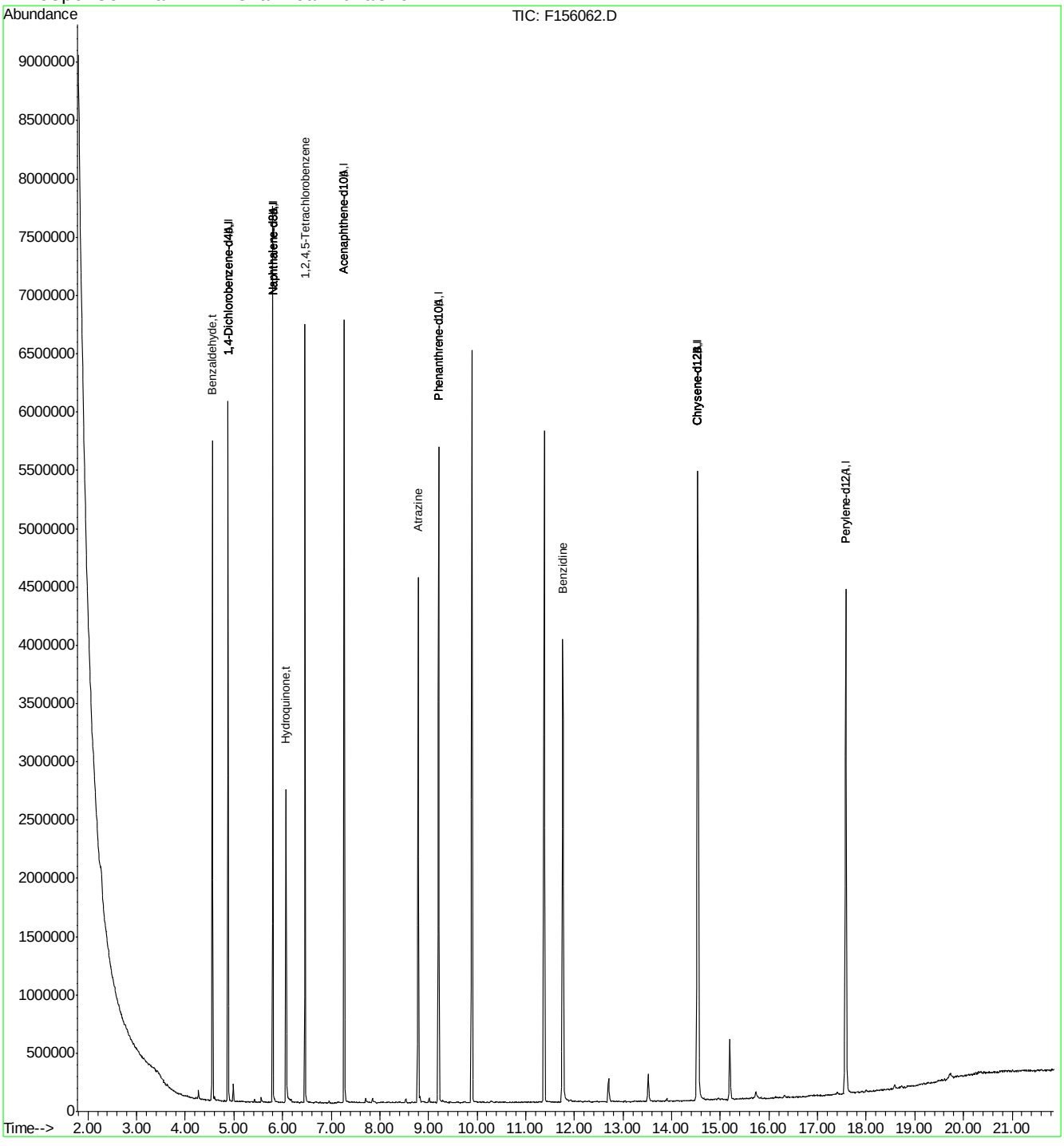
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156062.D MF6563.M Tue Apr 05 10:08:48 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156062.D Vial: 4
Acq On : 5 Apr 2016 12:25 am Operator: sarad
Sample : icc6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:08 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:01 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	897327	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3495590	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1830512	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3215186	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2889252	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2749195	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	897327	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3495590	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1830512	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3215186	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2889252	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2749195	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	897327	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3495590	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1830512	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3215186	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2889252	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	897327	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3495590	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2889252	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3495590	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2889252	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	625383	34.14	ppm	93
162) Hydroquinone	6.06	110	789896	28.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	610612	30.33	ppm	98
166) Atrazine	8.79	200	385755	28.52	ppm	98
168) Benzidine	11.76	184	1398321	43.97	ppm	97

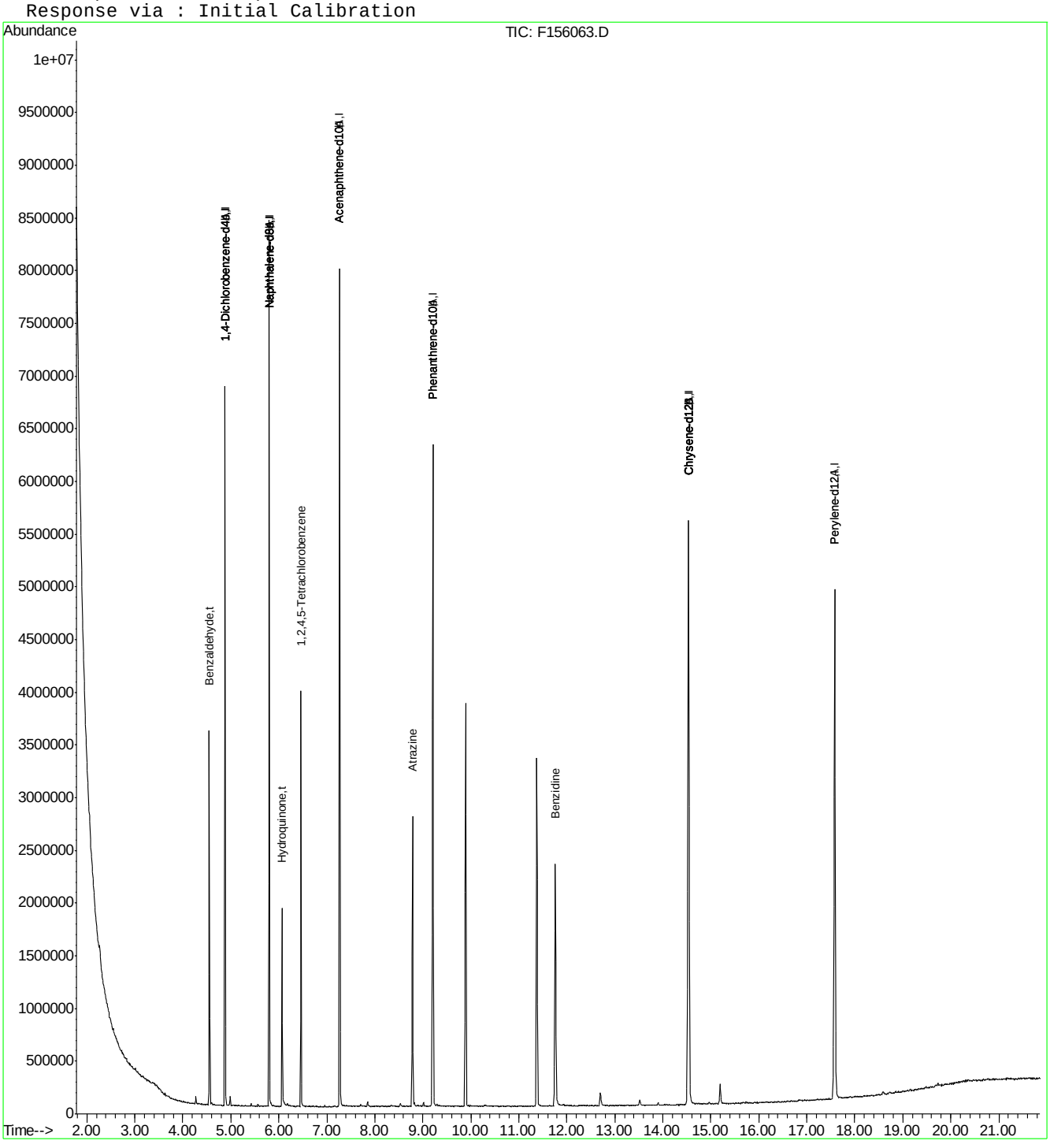
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156063.D Vial: 5
Acq On : 5 Apr 2016 12:53 am Operator: sarad
Sample : ic6564-25 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:09 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156063.D MF6563.M Tue Apr 05 10:09:35 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:03 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	885213	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3420800	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1822219	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3282226	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3053939	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2907168	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	885213	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3420800	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1822219	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3282226	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3053939	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2907168	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	885213	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3420800	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1822219	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3282226	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3053939	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	885213	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3420800	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3053939	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3420800	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3053939	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	256018	14.17	ppm	94
162) Hydroquinone	6.06	110	302905	11.02	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	258989	12.92	ppm	98
166) Atrazine	8.78	200	158420	11.47	ppm	97
168) Benzidine	11.76	184	592694	17.63	ppm	97

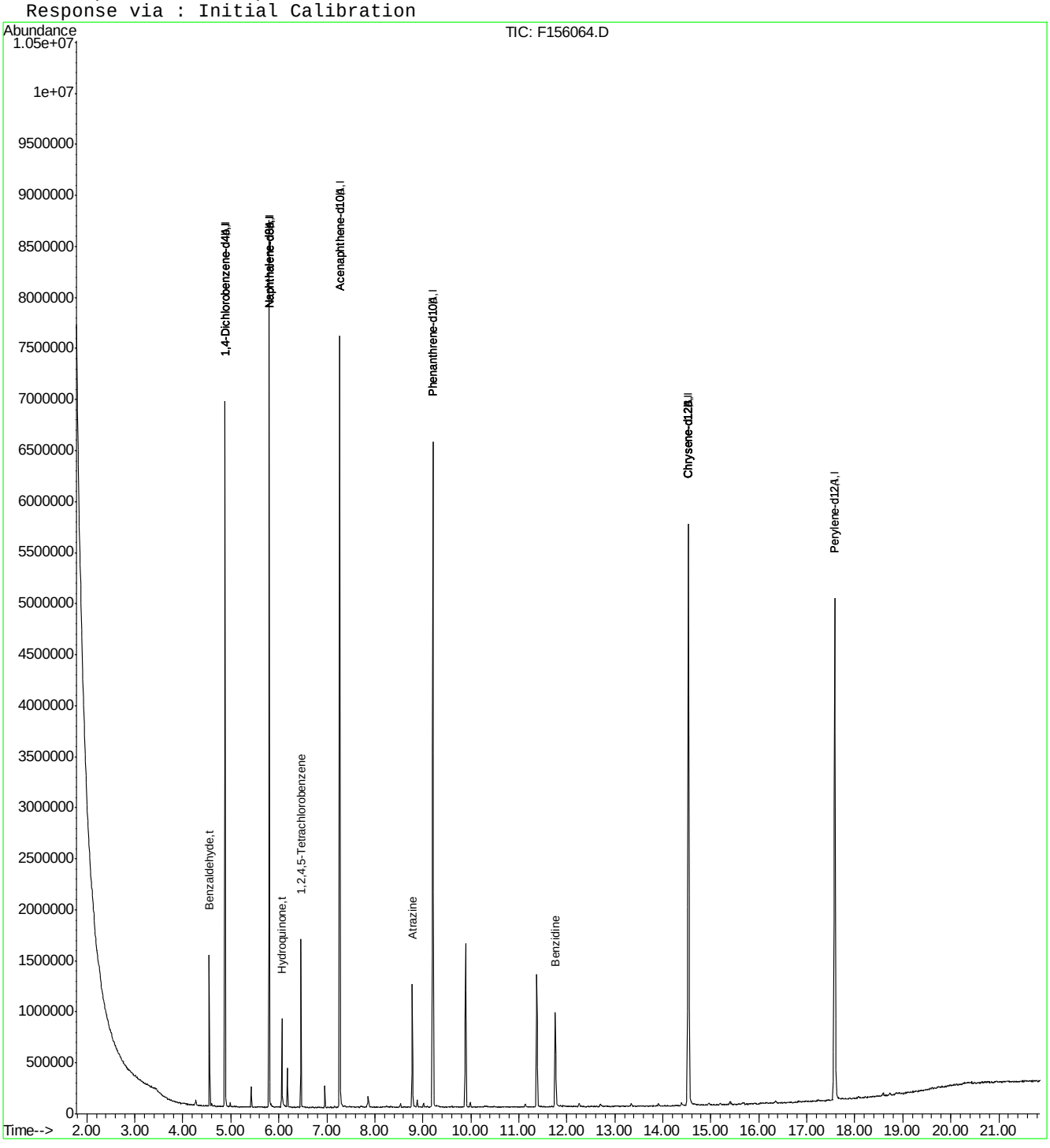
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156064.D Vial: 6
Acq On : 5 Apr 2016 1:22 am Operator: sarad
Sample : ic6564-10 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:10 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156064.D MF6563.M Tue Apr 05 10:10:29 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:05 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	935945	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3563923	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1902764	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3340344	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3114492	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	2956755	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	935945	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3563923	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1902764	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3340344	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3114492	40.00	ppm	-0.02
155) Perylene-d12A	17.59	264	2956755	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	935945	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3563923	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1902764	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3340344	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3114492	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	935945	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3563923	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3114492	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3563923	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3114492	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

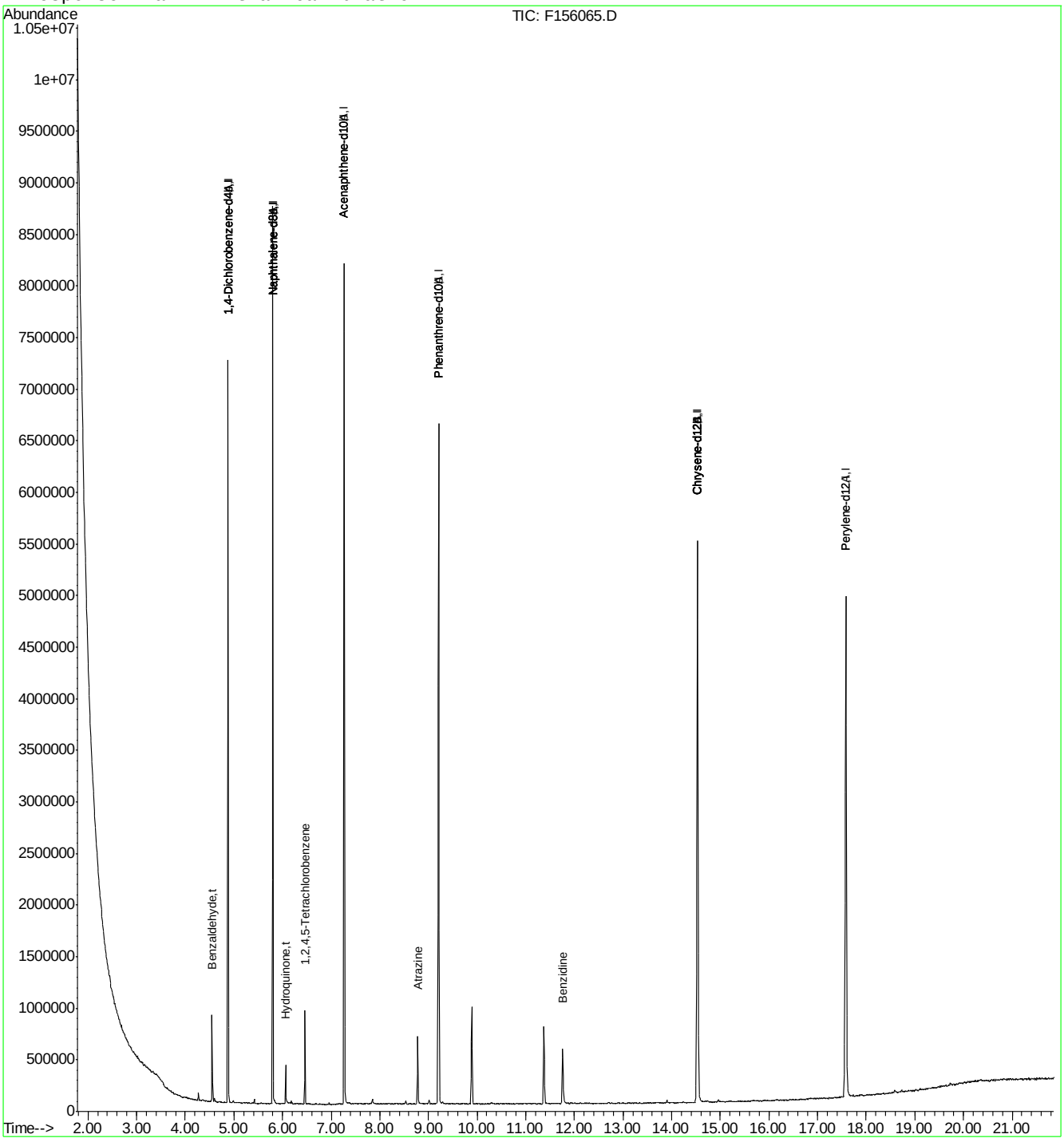
Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	148058	7.75	ppm	91
162) Hydroquinone	6.06	110	146743	5.12	ppm	98
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	152792	7.30	ppm	97
166) Atrazine	8.78	200	90736	6.46	ppm	95
168) Benzidine	11.76	184	331741	9.68	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156065.D Vial: 7
Acq On : 5 Apr 2016 1:51 am Operator: sarad
Sample : ic6564-5 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156065.D MF6563.M Tue Apr 05 10:11:14 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:33 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	962586	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3652889	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1925626	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3455884	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	3185957	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	3042111	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	962586	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3652889	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1925626	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3455884	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	3185957	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	3042111	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	962586	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3652889	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1925626	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3455884	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	3185957	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	962586	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3652889	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	3185957	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3652889	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	3185957	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.55	105	63241	3.22	ppm	94
162) Hydroquinone	6.06	110	48989	1.67	ppm	95
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	62433	2.95	ppm	99
166) Atrazine	8.78	200	35152	2.42	ppm	94
168) Benzidine	11.76	184	117911	3.36	ppm	94

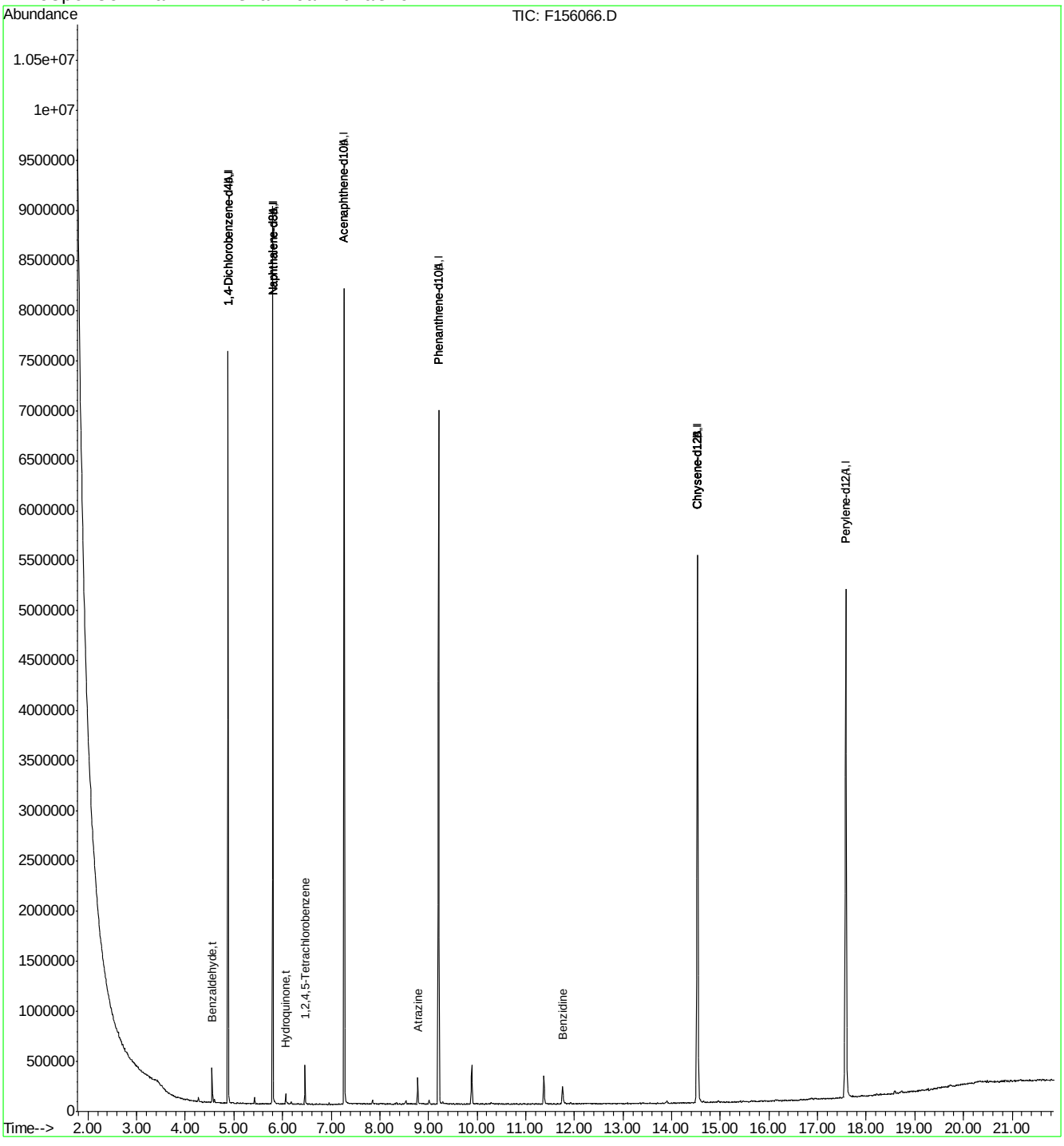
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156066.D Vial: 8
Acq On : 5 Apr 2016 2:19 am Operator: sarad
Sample : ic6564-2 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:11 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156066.D MF6563.M Tue Apr 05 10:12:03 2016 RT1 Page 2

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:56:35 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	901429	40.00 ppm	0.00
24) Naphthalene-d8	5.80	136	3431104	40.00 ppm	0.00
47) Acenaphthene-d10	7.27	164	1802430	40.00 ppm	0.00
69) Phenanthrene-d10	9.21	188	3227891	40.00 ppm	0.00
83) Chrysene-d12	14.53	240	3012466	40.00 ppm	-0.02
92) Perylene-d12	17.58	264	2866400	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	901429	40.00 ppm	0.00
112) Naphthalene-d8A	5.80	136	3431104	40.00 ppm	0.00
121) Acenaphthene-d10A	7.27	164	1802430	40.00 ppm	0.00
132) Phenanthrene-d10A	9.21	188	3227891	40.00 ppm	0.00
147) Chrysene-d12A	14.53	240	3012466	40.00 ppm	-0.02
155) Perylene-d12A	17.58	264	2866400	40.00 ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	901429	40.00 ppm	0.00
161) Naphthalene-d8b	5.80	136	3431104	40.00 ppm	0.00
163) Acenaphthene-d10b	7.27	164	1802430	40.00 ppm	0.00
165) Phenanthrene-d10b	9.21	188	3227891	40.00 ppm	0.00
167) Chrysene-d12b	14.53	240	3012466	40.00 ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	901429	40.00 ppm	0.00
171) Naphthalene-d8c	5.80	136	3431104	40.00 ppm	0.00
176) Chrysene-d12c	14.53	240	3012466	40.00 ppm	-0.02
178) Naphthalene-d8a	5.80	136	3431104	40.00 ppm	0.15
180) Chrysene-d12B	14.53	240	3012466	40.00 ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
8) Phenol-d5	0.00	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
25) Nitrobenzene-d5	0.00	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
51) 2-Fluorobiphenyl	0.00	172	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
73) 2,4,6-Tribromophenol	0.00	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		
85) Terphenyl-d14	0.00	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery = 0.00%		

Target Compounds					Qvalue
160) Benzaldehyde	4.56	105	30190	1.64 ppm	94
162) Hydroquinone	6.06	110	21604	0.78 ppm	94
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	29618	1.49 ppm	95
166) Atrazine	8.78	200	16149	1.19 ppm	98
168) Benzidine	11.76	184	50022	1.51 ppm	97

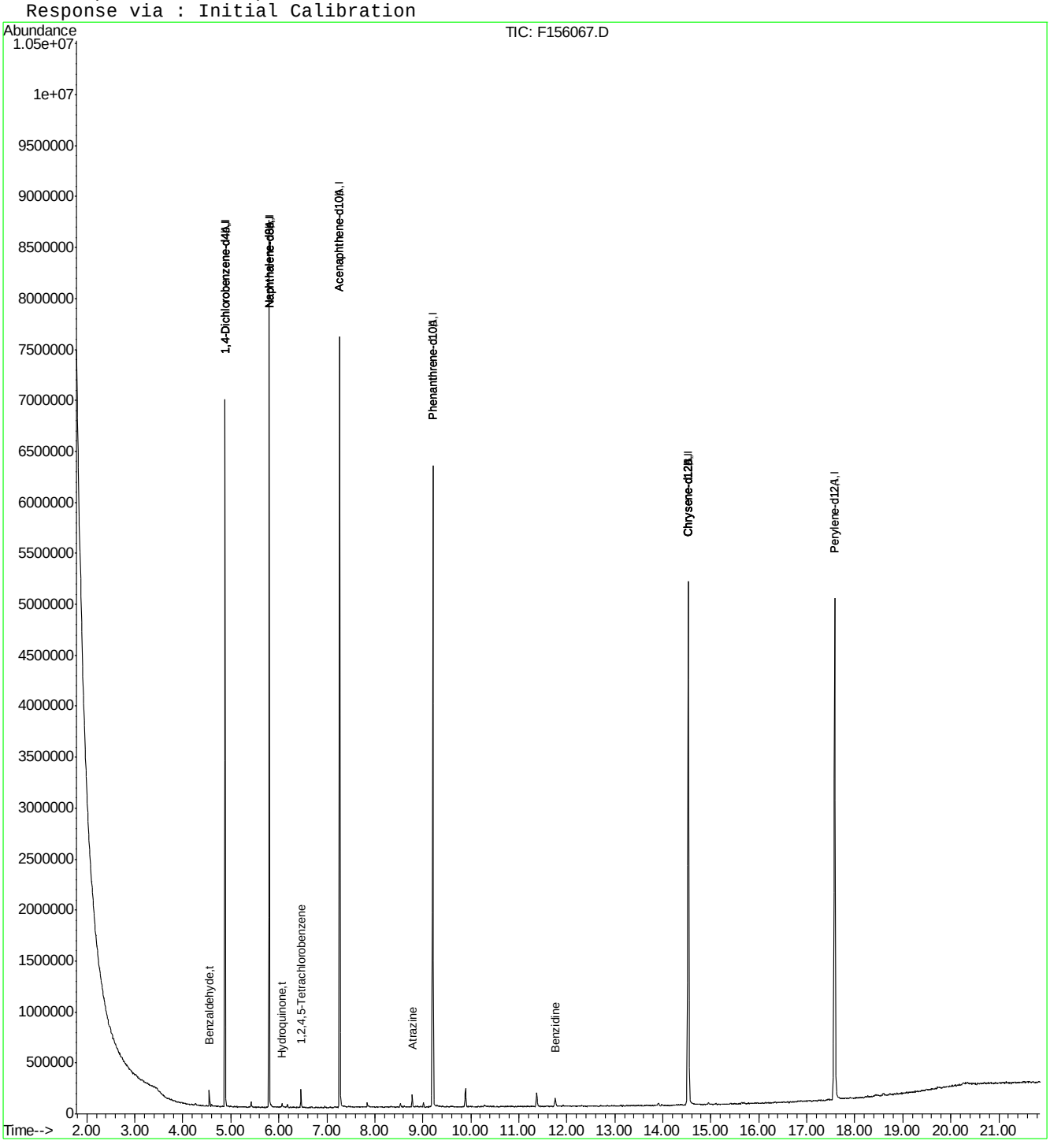
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156067.D Vial: 9
Acq On : 5 Apr 2016 2:48 am Operator: sarad
Sample : ic6564-1 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:12 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:55:18 2016
Response via : Initial Calibration



F156067.D MF6563.M Tue Apr 05 10:12:49 2016 RT1 Page 2

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:36:52 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	864272	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3423451	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	2005879	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3116817	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2569410	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1956035	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	864272	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3423451	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	2005879	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3116817	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2569410	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1956035	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	864272	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3423451	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	2005879	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3116817	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2569410	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	864272	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3423451	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2569410	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3423451	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2569410	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
3) Pyridine	2.86	79	1586125	50.31	ppm	99
10) Aniline	4.64	93	2279154	52.93	ppm	100
16) Benzyl alcohol	4.98	108	994014	48.58	ppm	97
39) 4-Chloroaniline	5.85	127	1781416	46.15	ppm	97
44) 2-Methylnaphthalene	6.33	141	2274002	43.13	ppm	100
54) 2-Nitroaniline	6.82	65	730620	44.48	ppm	99
58) 3-Nitroaniline	7.21	138	763794	43.52	ppm	98
62) Dibenzofuran	7.49	168	3529125	43.82	ppm	100
68) 4-Nitroaniline	7.90	138	731613	41.28	ppm	98
79) Carbazole	9.61	167	3790834	44.96	ppm	99

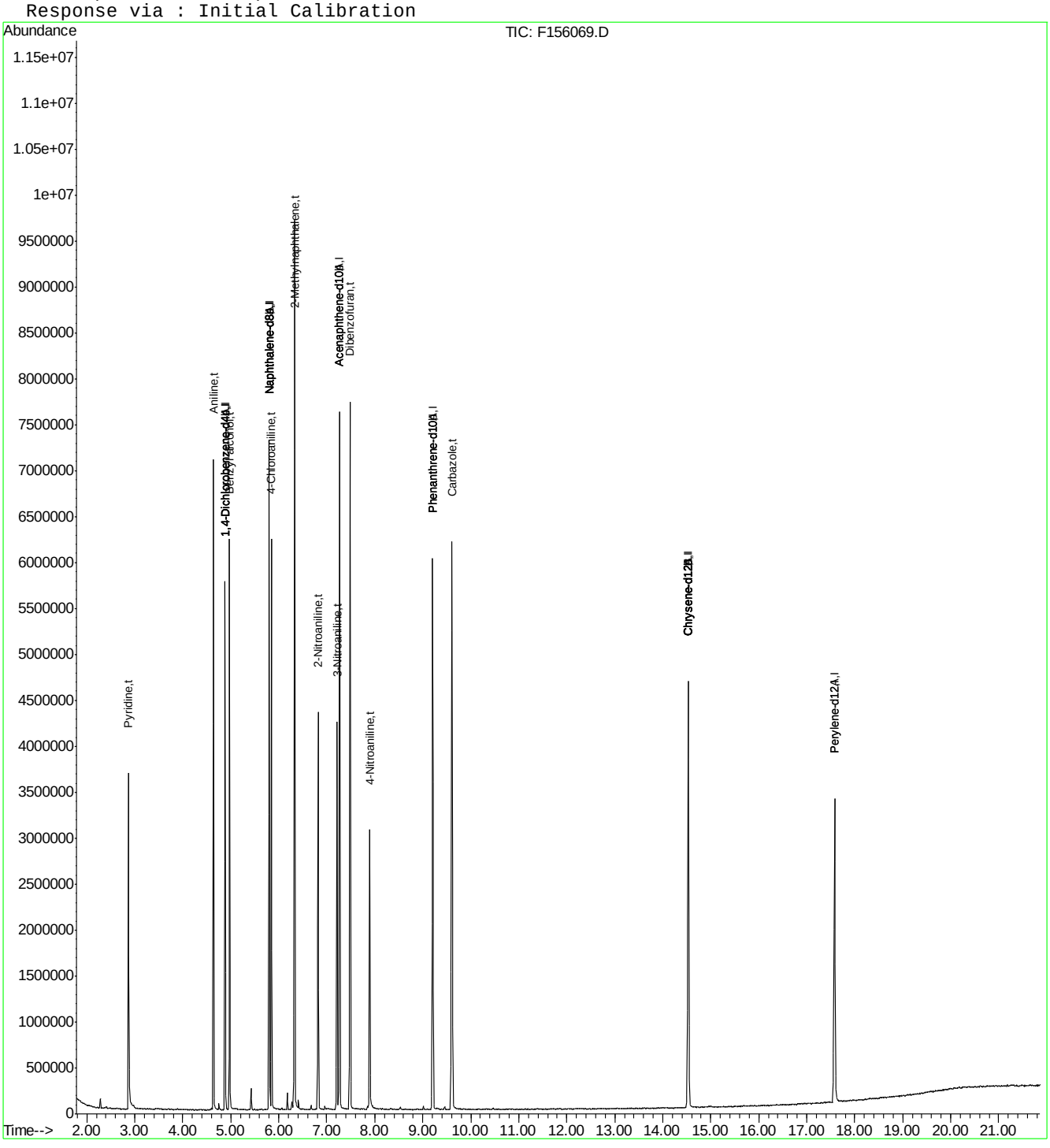
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156069.D Vial: 11
Acq On : 5 Apr 2016 3:46 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:38 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration



F156069.D MF6563.M Tue Apr 05 10:38:58 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 09:46:20 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 09:45:41 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	887640	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3267655	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1882697	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2875140	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2396451	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2121009	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	887640	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3267655	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1882697	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2875140	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2396451	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2121009	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	887640	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3267655	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1882697	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2875140	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2396451	40.00	ppm	0.13
169) 1,4-Dichlorobenzene-d4c	4.88	152	887640	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3267655	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2396451	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3267655	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2396451	40.00	ppm	0.22

System Monitoring Compounds						
5) 2-Fluorophenol	3.89	112	1362727	43.66	ppm	0.00
Spiked Amount 50.000			Recovery = 87.32%			
8) Phenol-d5	4.60	99	1634955	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			
25) Nitrobenzene-d5	5.28	82	1353390	44.35	ppm	0.00
Spiked Amount 50.000			Recovery = 88.70%			
51) 2-Fluorobiphenyl	6.63	172	2602481	43.31	ppm	0.00
Spiked Amount 50.000			Recovery = 86.62%			
73) 2,4,6-Tribromophenol	8.19	330	257319	43.86	ppm	-0.01
Spiked Amount 50.000			Recovery = 87.72%			
85) Terphenyl-d14	12.30	244	2096294	43.07	ppm	0.00
Spiked Amount 50.000			Recovery = 86.14%			

Target Compounds Qvalue

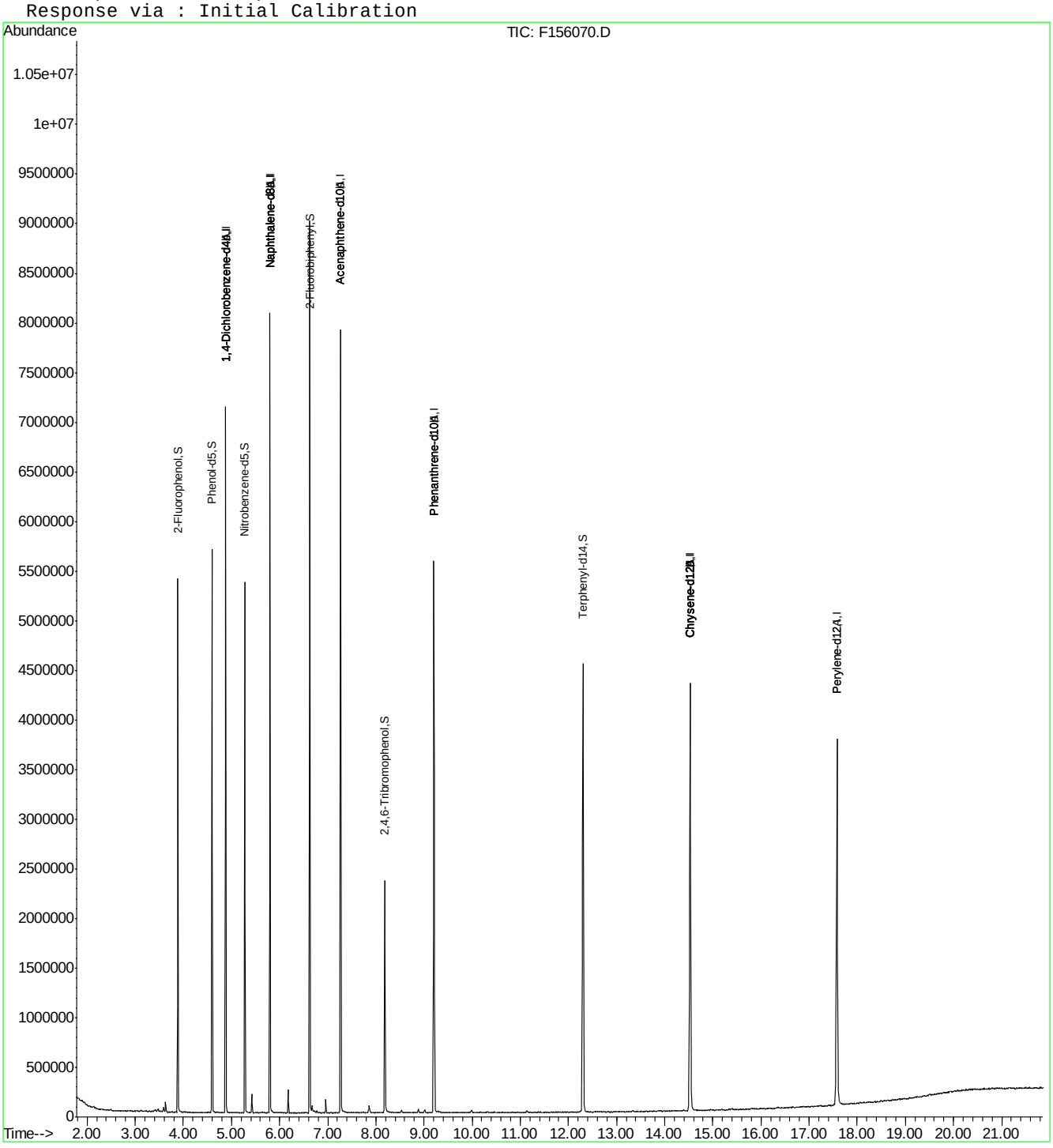
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156070.D Vial: 12
Acq On : 5 Apr 2016 4:15 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 5 10:39 2016 Quant Results File: MF6563.RES

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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

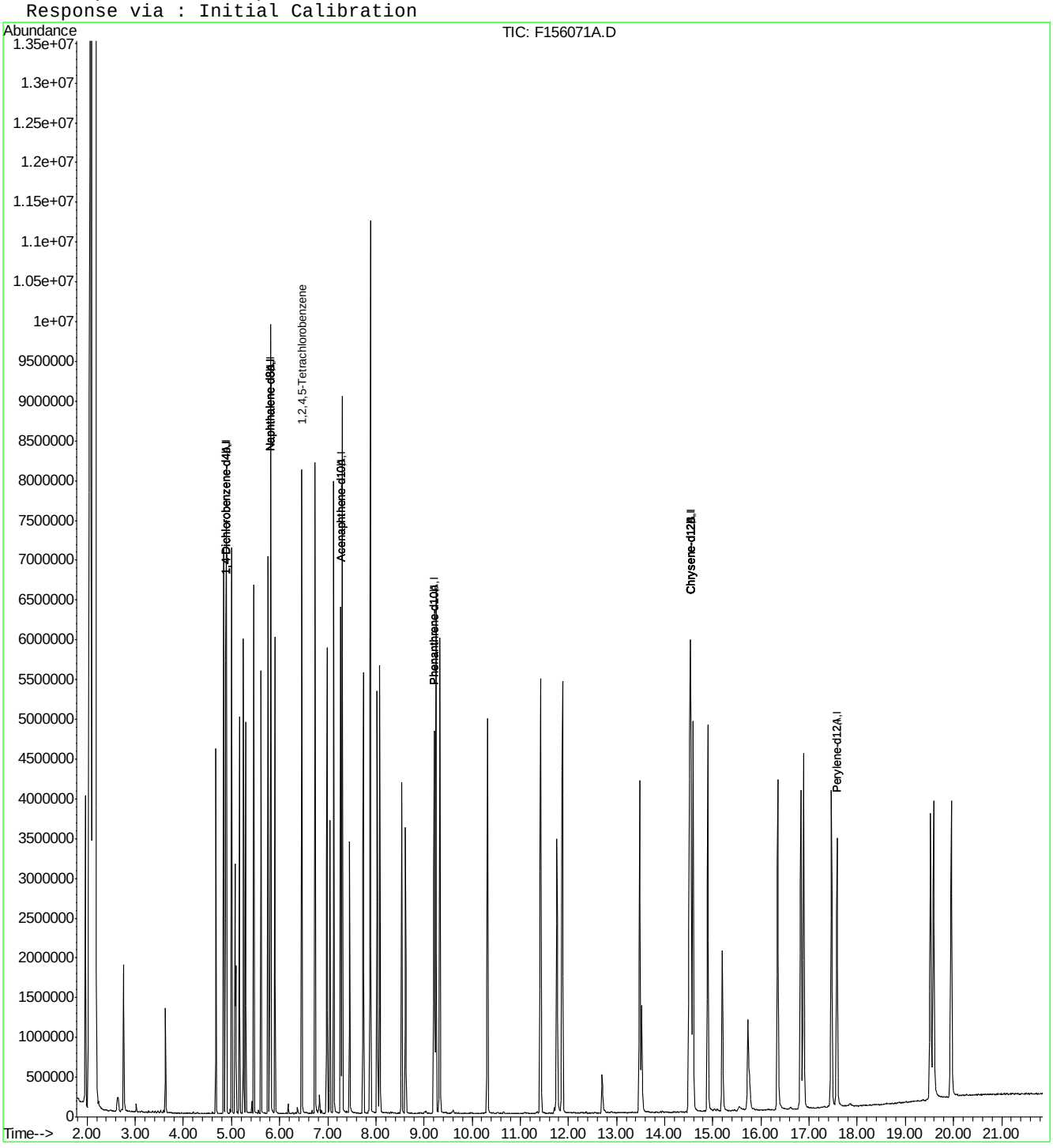
Target Compounds						Qvalue
164) 1,2,4,5-Tetrachlorobenzene	6.46	216	1023403	44.56	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071A.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	791654	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2940255	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1650821	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2527126	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2041490	40.00	ppm	-0.01
92) Perylene-d12	17.58	264	1894786	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	791654	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2940255	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1650821	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2527126	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2041490	40.00	ppm	-0.01
155) Perylene-d12A	17.58	264	1894786	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	791654	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2940255	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1650821	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2527126	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2041490	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	791654	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2940255	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2041490	40.00	ppm	-0.01
178) Naphthalene-d8a	5.80	136	2940255	40.00	ppm	0.15
180) Chrysene-d12B	14.54	240	2041490	40.00	ppm	0.23

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
4) N-Nitrosodimethylamine	2.76	42	485916	46.76	ppm	98
11) bis(2-Chloroethyl)ether	4.68	93	1249072	48.18	ppm	98
14) 1,3-Dichlorobenzene	4.84	146	1514832	46.47	ppm	98
15) 1,4-Dichlorobenzene	4.89	146	1530755	47.07	ppm	100
17) 1,2-Dichlorobenzene	5.00	146	1452410	47.50	ppm	98
20) 2,2'-oxybis(1-Chloropropan	5.08	121	402803	43.10	ppm	97
22) n-Nitroso-di-n-propylamine	5.17	70	882539	46.14	ppm	94
23) Hexachloroethane	5.25	201	468808	46.54	ppm	96
26) Nitrobenzene	5.29	77	1327194	46.15	ppm	94
28) Isophorone	5.46	82	2413879	49.15	ppm	96
32) bis(2-Chloroethoxy)methane	5.62	93	1407061	45.46	ppm	99
36) 1,2,4-Trichlorobenzene	5.76	180	1103469	45.47	ppm	98

(#) = qualifier out of range (m) = manual integration
F156071.D MF6563.M Thu Apr 07 09:52:13 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:44:21 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.82	128	3790901	47.22	ppm	99
42)	Hexachlorobutadiene	5.90	225	535368	46.60	ppm	99
52)	2-Chloronaphthalene	6.74	162	2215777	46.45	ppm	97
55)	Dimethylphthalate	6.98	163	2349889	44.02	ppm	100
56)	Acenaphthylene	7.13	152	3539399	45.77	ppm	99
57)	2,6-Dinitrotoluene	7.05	165	515828	44.71	ppm	93
59)	Acenaphthene	7.30	153	2278169	46.91	ppm	99
63)	2,4-Dinitrotoluene	7.46	165	654129	41.83	ppm	99
65)	Diethylphthalate	7.74	149	2254990	42.74	ppm	100
66)	Fluorene	7.89	166	2284573	44.79	ppm	100
67)	4-Chlorophenyl-phenylether	7.89	204	961950	42.80	ppm	96
71)	n-Nitrosodiphenylamine	8.03	169	1599662	44.14	ppm	99
72)	1,2-Diphenylhydrazine	8.08	77	2466045	49.23	ppm	100
74)	4-Bromophenyl-phenylether	8.54	248	568052	46.63	ppm	99
75)	Hexachlorobenzene	8.62	284	556035	47.82	ppm	95
77)	Phenanthrene	9.25	178	3414104	46.87	ppm	98
78)	Anthracene	9.33	178	3410039	46.76	ppm	99
80)	Di-n-butylphthalate	10.32	149	3880513	45.44	ppm	100
81)	Fluoranthene	11.42	202	3358980	46.50	ppm	99
84)	Pyrene	11.88	202	3587015	49.54	ppm	98
86)	Butylbenzylphthalate	13.48	149	1628471	45.79	ppm	98
88)	Benzo[a]anthracene	14.52	228	2835540	45.86	ppm	100
90)	Chrysene	14.59	228	2848434	46.34	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.89	149	2239893	45.45	ppm	98
93)	Di-n-octylphthalate	16.35	149	3823114	46.05	ppm	99
94)	Benzo[b]fluoranthene	16.83	252	2720341	46.45	ppm	99
95)	Benzo[k]fluoranthene	16.89	252	2848494	49.70	ppm	99
96)	Benzo[a]pyrene	17.47	252	2596492	48.44	ppm	99
97)	Indeno[1,2,3-cd]pyrene	19.53	276	2372059	47.96	ppm	99
99)	Dibenz[a,h]anthracene	19.59	278	2304304	48.15	ppm	98
101)	Benzo[g,h,i]perylene	19.95	276	2556304	47.82	ppm	97

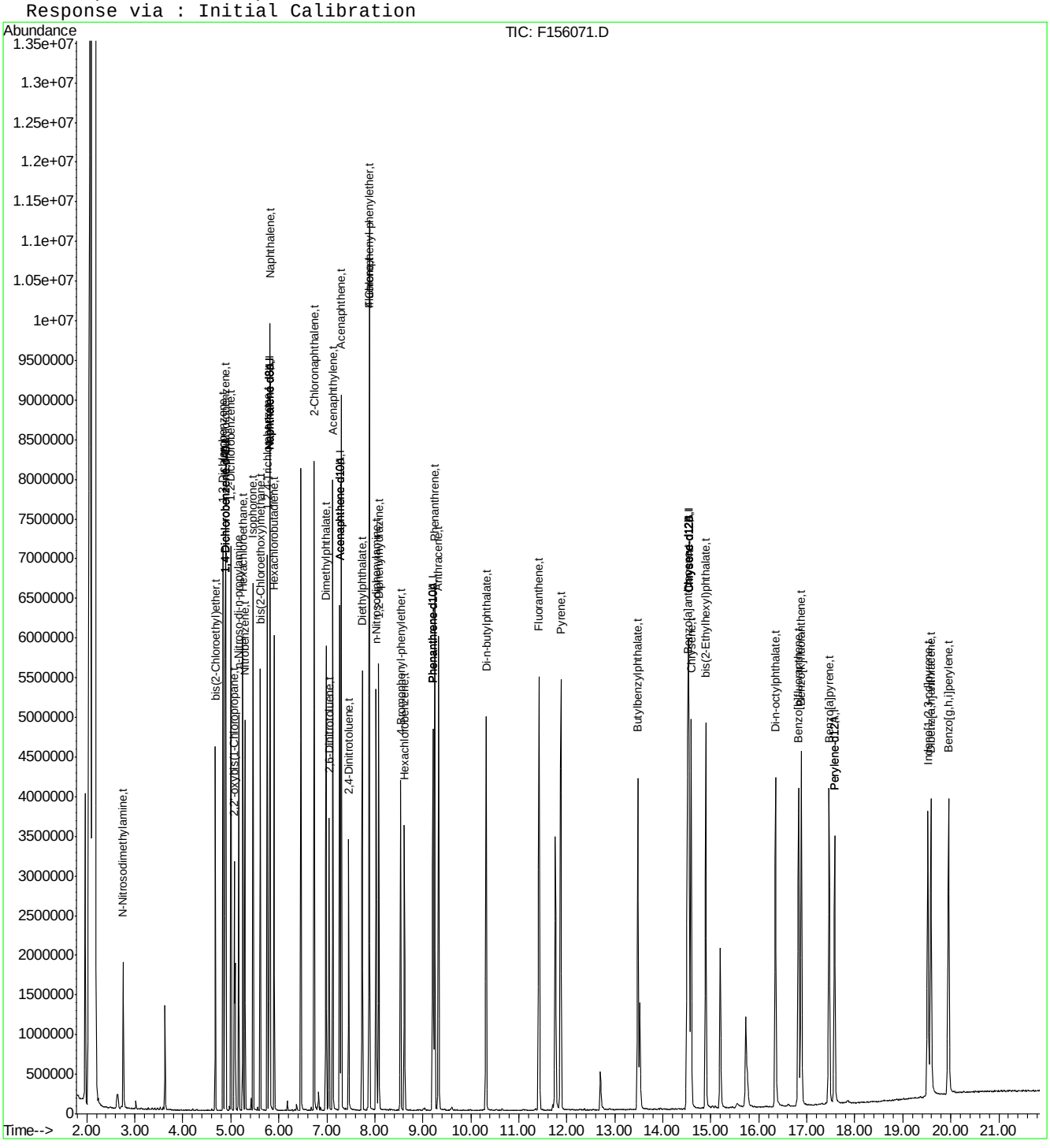
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156071.D Vial: 13
Acq On : 5 Apr 2016 4:44 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
160) Benzaldehyde	4.56	105	1094500	45.31	ppm	99
166) Atrazine	8.79	200	597779	44.80	ppm	99

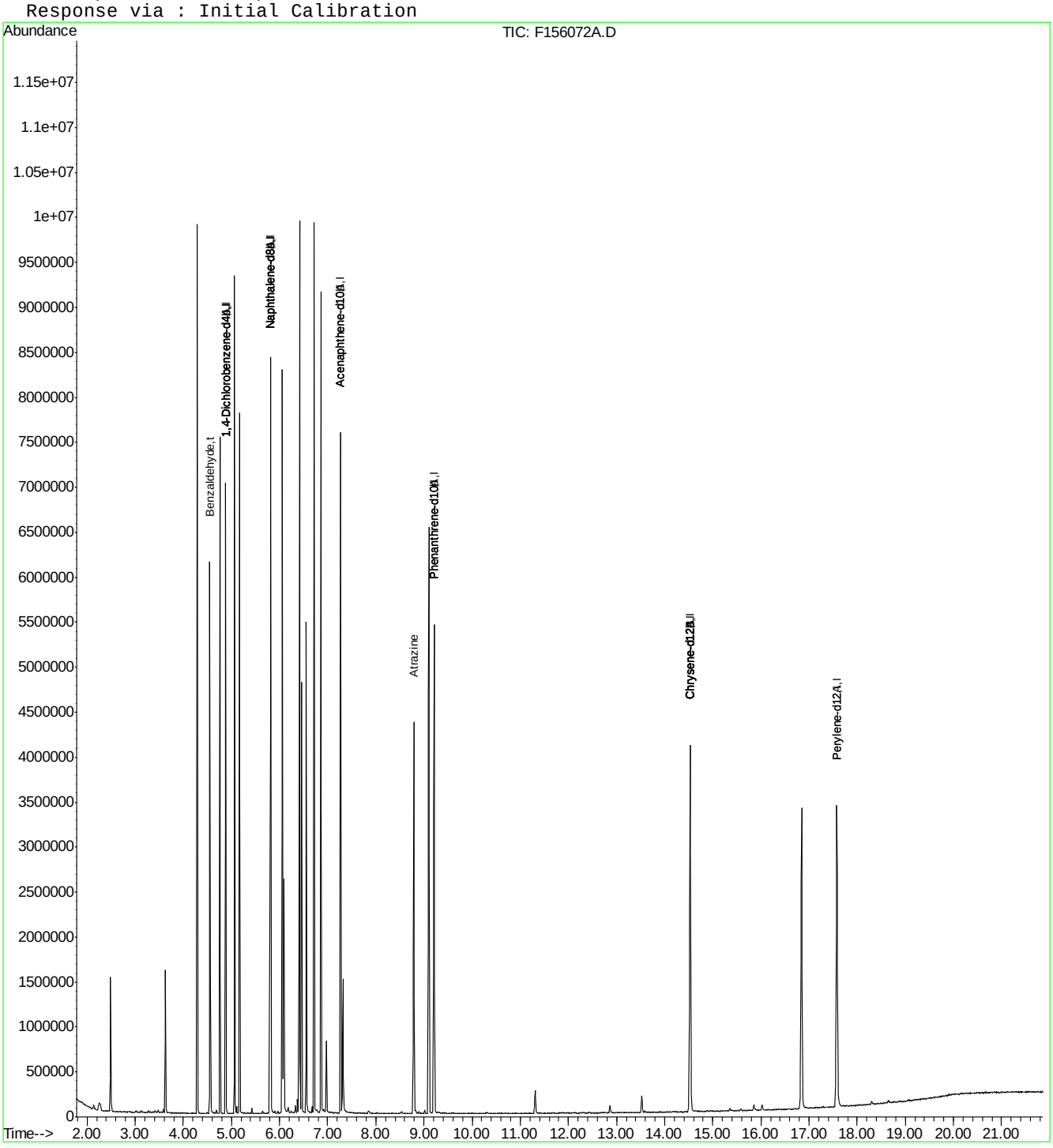
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072A.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

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



F156072A.D MF6563.M Thu Apr 07 09:53:25 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	857846	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3576668	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1817820	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2775738	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2296061	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	1979067	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	857846	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3576668	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1817820	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2775738	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2296061	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	1979067	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	857846	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3576668	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1817820	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2775738	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2296061	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	857846	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3576668	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2296061	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3576668	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2296061	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.49	88	587733	44.25	ppm	97
6) Indene	5.07	116	2402169	47.31	ppm	99
7) Cumene	4.29	105	3028952	44.41	ppm	100
13) Decane	4.76	43	1199734	43.79	ppm	97
18) Acetophenone	5.17	105	1787382	46.56	ppm	92
27) Quinoline	6.05	129	2584470	37.39	ppm	97
41) Caprolactam	6.09	55	501453	36.96	ppm	97
45) 1-Methylnaphthalene	6.41	141	2097104	36.99	ppm	99
46) Dimethylnaphthalene	6.86	156	2148084	37.40	ppm	100
48) Hexachlorocyclopentadiene	6.46	237	630910	51.15	ppm	99
53) Biphenyl	6.72	154	2917712	43.26	ppm	100
82) Octadecane	9.10	57	1516617	46.58	ppm	100

(#) = qualifier out of range (m) = manual integration
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:55:42 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
100) 7,12-Dimethylbenz(a)anthra	16.84	256	1106284	46.32 ppm	100

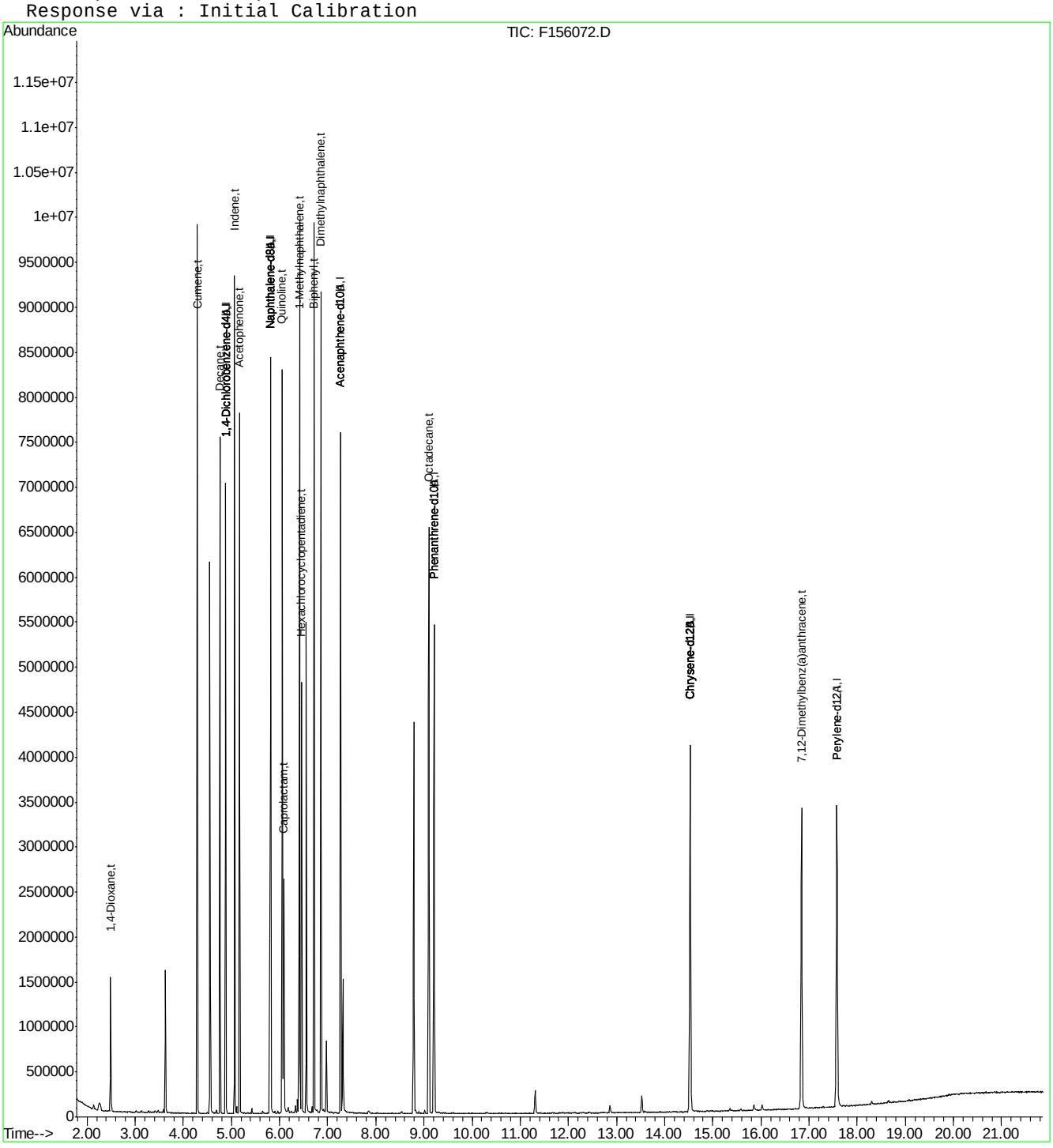
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156072.D MF6563.M Thu Apr 07 09:52:51 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156072.D Vial: 14
Acq On : 5 Apr 2016 5:13 am Operator: sarad
Sample : icv6563-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:52 2016 Quant Results File: MF6563.RES

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



F156072.D MF6563.M Thu Apr 07 09:52:52 2016 RT1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

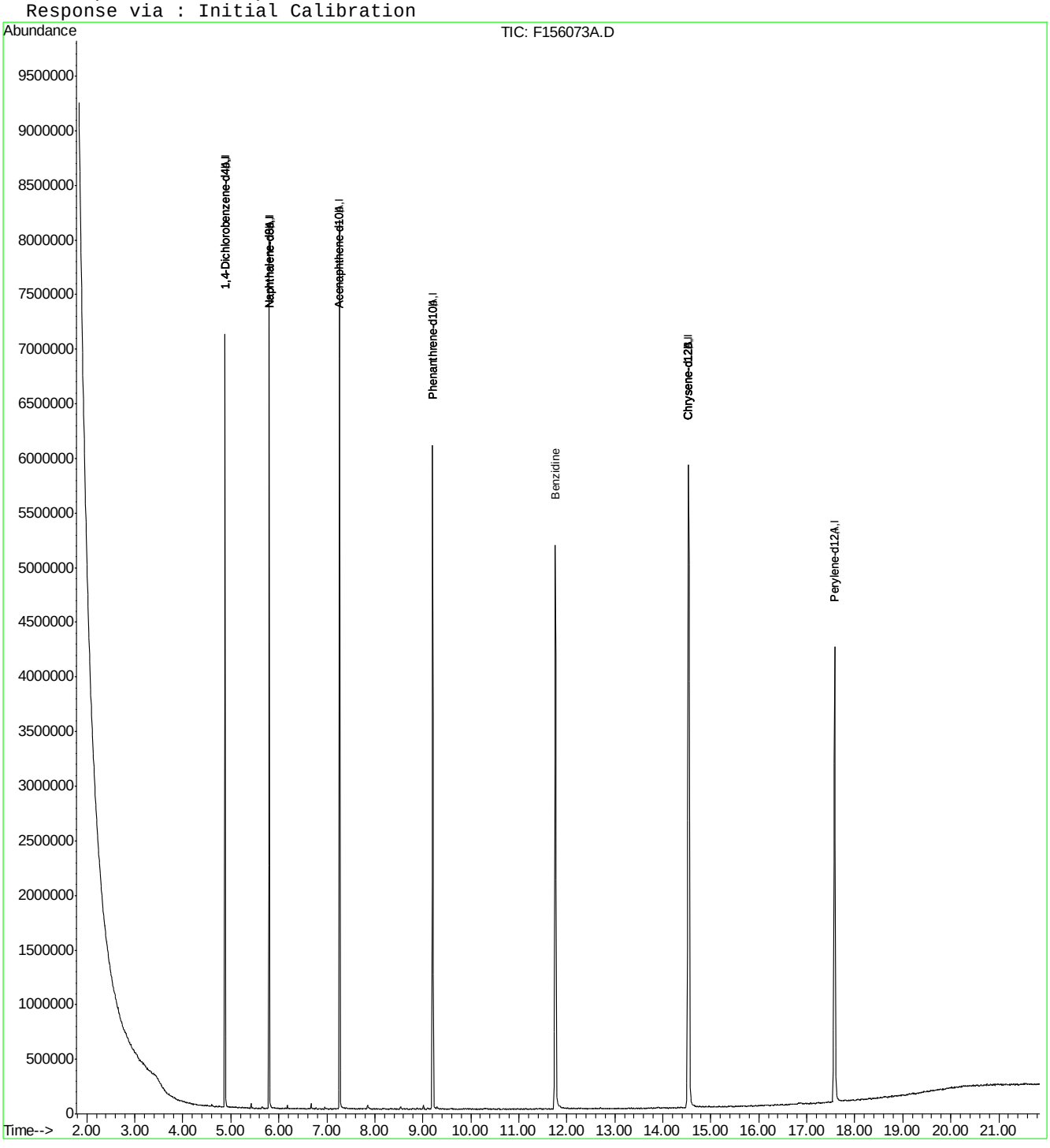
Target Compounds						Qvalue
168) Benzidine	11.76	184	3118781	65.60	ppm	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073A.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 05 10:58:25 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 05 10:36:50 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	909903	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3328731	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1966387	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	3138917	40.00	ppm	-0.01
83) Chrysene-d12	14.53	240	2735429	40.00	ppm	-0.02
92) Perylene-d12	17.58	264	2564354	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	909903	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3328731	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1966387	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	3138917	40.00	ppm	-0.01
147) Chrysene-d12A	14.53	240	2735429	40.00	ppm	-0.02
155) Perylene-d12A	17.58	264	2564354	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	909903	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3328731	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1966387	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	3138917	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	2735429	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	909903	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3328731	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2735429	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	3328731	40.00	ppm	0.15
180) Chrysene-d12B	14.53	240	2735429	40.00	ppm	0.22

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
89) 3,3'-Dichlorobenzidine	14.55	252	1355321	46.96	ppm	99

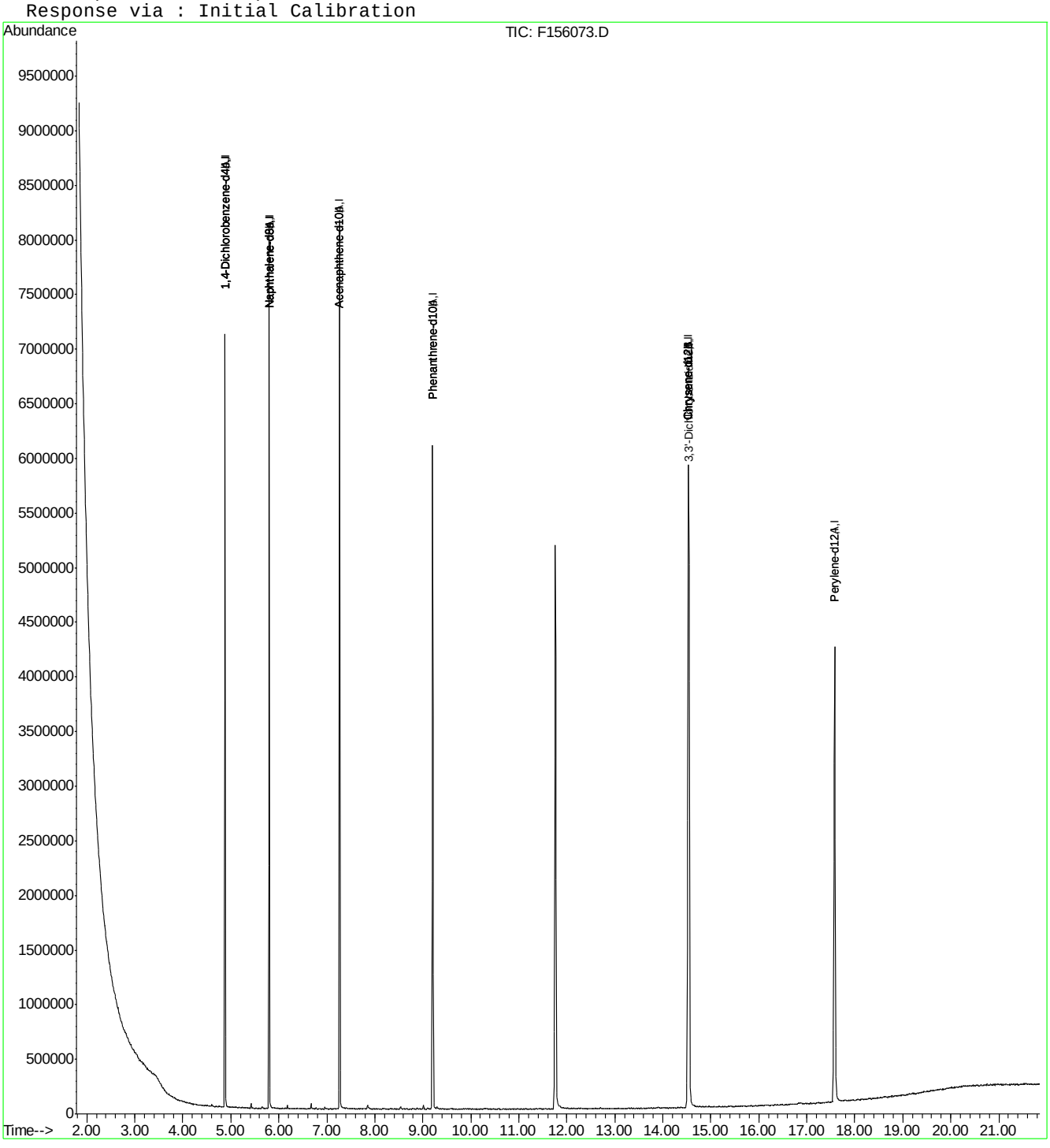
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F156073.D MF6563.M Thu Apr 07 09:53:52 2016 RT1

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6564\F156073.D Vial: 15
Acq On : 5 Apr 2016 5:42 am Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6564,100 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 7 9:53 2016 Quant Results File: MF6563.RES

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



SGS ACCUTEST JC19214

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:44:32 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	615006	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2427861	40.00	ppm	0.00
47) Acenaphthene-d10	7.28	164	1469461	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2330846	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	2163632	40.00	ppm	-0.02
92) Perylene-d12	17.60	264	1999769	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	615006	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2427861	40.00	ppm	0.00
121) Acenaphthene-d10A	7.28	164	1469461	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2330846	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	2163632	40.00	ppm	0.00
155) Perylene-d12A	17.60	264	1999769	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	615006	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2427861	40.00	ppm	0.00
163) Acenaphthene-d10b	7.28	164	1469461	40.00	ppm	0.01
165) Phenanthrene-d10b	9.22	188	2330846	40.00	ppm	0.01
167) Chrysene-d12b	14.53	240	2163632	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	615006	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2427861	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	2163632	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2427861	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	2163632	40.00	ppm	0.03

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
103) 2-Picoline	3.41	93	2412394	100.00	ppm	95
104) Pentachloroethane	4.67	167	770959	100.00	ppm	88
105) Methyl methanesulfonate	3.75	80	1201536	100.00	ppm	97
106) N-Nitrosodiethylamine	4.07	102	1034857	100.00	ppm	95
107) N-Nitrosomethylethylamine	3.51	42	978966	100.00	ppm	98
108) Ethyl methanesulfonate	4.30	79	1696672	100.00	ppm	92
109) N-Nitrosopyrrolidine	5.17	41	844854m	99.84	ppm	
110) N-Nitrosomorpholine	5.19	56	1116118	100.00	ppm	92
111) o-Toluidine	5.20	106	2859129	100.00	ppm	96
113) O,O,O-Triethyl phosphoroth	5.60	198	829669	100.00	ppm	97
114) N-Nitrosopiperidine	5.41	42	1265979	100.00	ppm	92
115) A,A-Dimethylphenethylamine	5.74	58	5198037m	99.71	ppm	

(#) = qualifier out of range (m) = manual integration
F156080.D MF6563AP9.M Fri Apr 08 17:17:12 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:44:32 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	1061513	100.00	ppm		98
117)	p-Phenylenediamine	6.34	108	860205m	99.85	ppm		
118)	N-Nitrosodi-n-butylamine	6.10	84	1440509	84.78	ppm		97
119)	Safrole	6.26	162	1438890	100.23	ppm		96
120)	Isosafrole	6.68	162	518965	99.94	ppm		98
122)	Thionazin	7.85	143	534963	100.00	ppm		97
123)	Tetraethyl dithiopyrophosp	8.26	322	461062	100.00	ppm		100
124)	Phorate	8.45	75	2983140	99.57	ppm		100
125)	Phenacetin	8.48	108	2403334	100.00	ppm		98
126)	1,4-Naphthoquinone	6.90	158	869552	100.00	ppm		90
127)	m-Dinitrobenzene	7.02	168	690301	100.08	ppm	#	63
128)	Pentachlorobenzene	7.45	250	1282663	100.00	ppm		99
129)	1-Naphthylamine	7.58	143	3032532	100.00	ppm		94
130)	2-Naphthylamine	7.67	143	3583857	99.59	ppm		100
131)	5-Nitro-o-toluidine	7.91	152	1297405	100.00	ppm		85
133)	Disulfoton	9.26	88	2339129	98.18	ppm		95
134)	Dinoseb	9.24	211	1021715	100.00	ppm		97
135)	Dimethoate	8.70	87	1638217	99.46	ppm		95
136)	4-Aminobiphenyl	8.94	169	3656990	199.23	ppm		99
137)	Methyl parathion	9.89	125	1069331	100.00	ppm		90
138)	Parathion	10.65	109	893865	98.45	ppm		93
139)	Diphenylamine	8.04	169	5555153	100.03	ppm		99
140)	Isodrin	11.13	193	660659	99.79	ppm		97
141)	Diallate	8.56	86	381507	78.70	ppm		92
142)	Pentachloronitrobenzene	8.95	295	308213	200.00	ppm		96
143)	Pronamide	9.05	173	1786485	100.00	ppm		96
144)	4-Nitroquinoline 1-oxide	10.66	190	2445665	400.10	ppm		91
145)	Methapyriline	10.93	58	1124424	99.16	ppm		97
146)	sym-Trinitrobenzene	8.39	213	432643	100.15	ppm	#	67
148)	Aramite	12.53	185	367436	199.73	ppm		94
149)	p-(Dimethylamine)azobenzen	12.64	120	2076469	100.00	ppm		68
150)	Kepone	13.36	272	1055754	600.00	ppm		99
151)	Famphur	13.32	218	3732778	600.00	ppm		94
152)	2-Acetylaminofluorene	13.93	181	2794738	100.08	ppm		96
153)	3,3'-Dimethylbenzidine	13.38	212	458737	100.00	ppm		98
154)	Chlorobenzilate	12.77	251	1594418	100.00	ppm		97
156)	4,4-Methylene-bis-(2-chlor	14.60	266	431157	89.95	ppm		89
157)	3-Methylcholanthrene	18.22	268	2620657	99.59	ppm		96
158)	Hexachlorophene	17.35	196	2516592	599.47	ppm		99

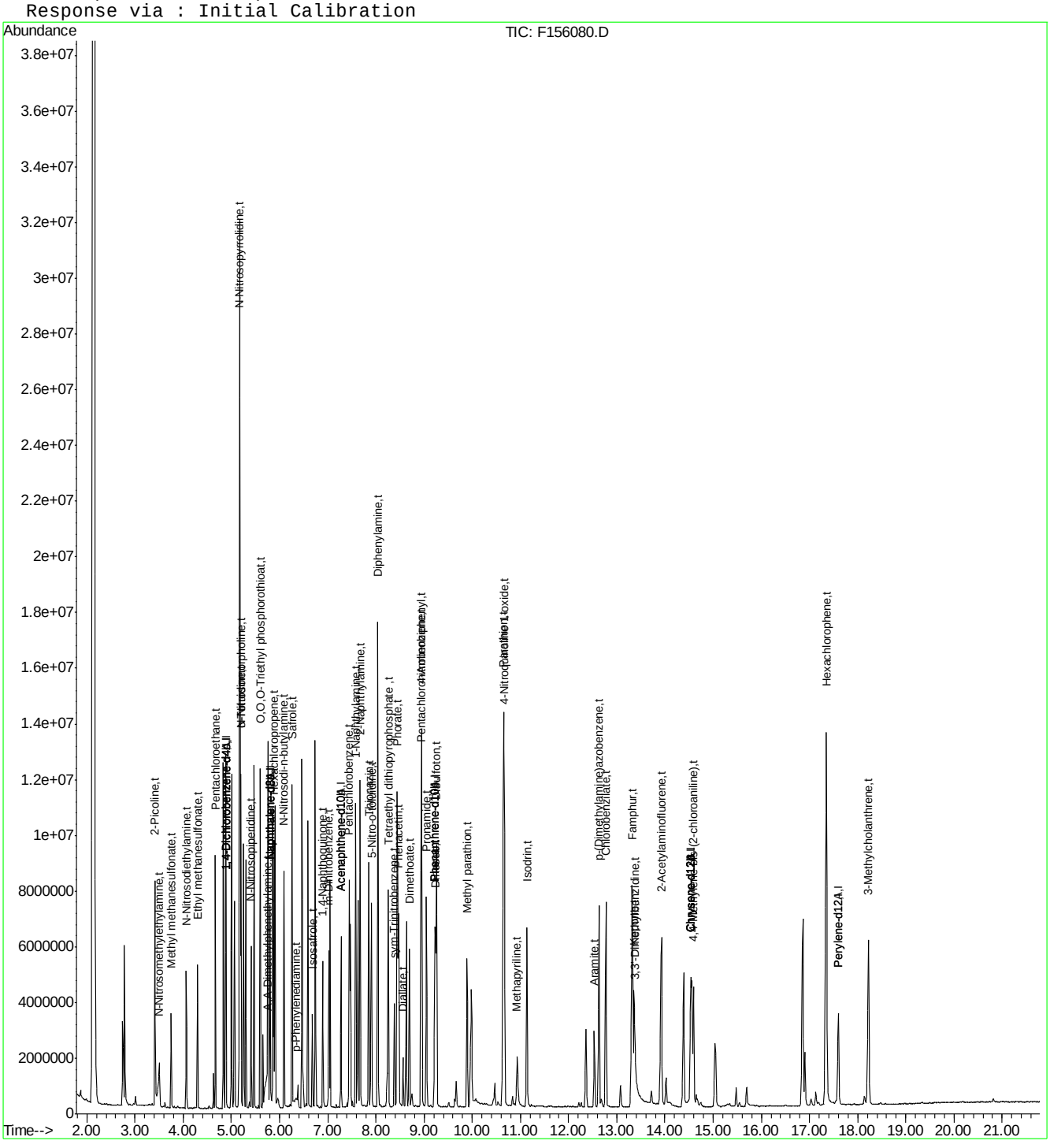
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:48 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156080.D MF6563AP9.M Fri Apr 08 17:17:12 2016 RT1 Page 3

SGS ACCUTEST JC19214

Manual Integration Approval Summary

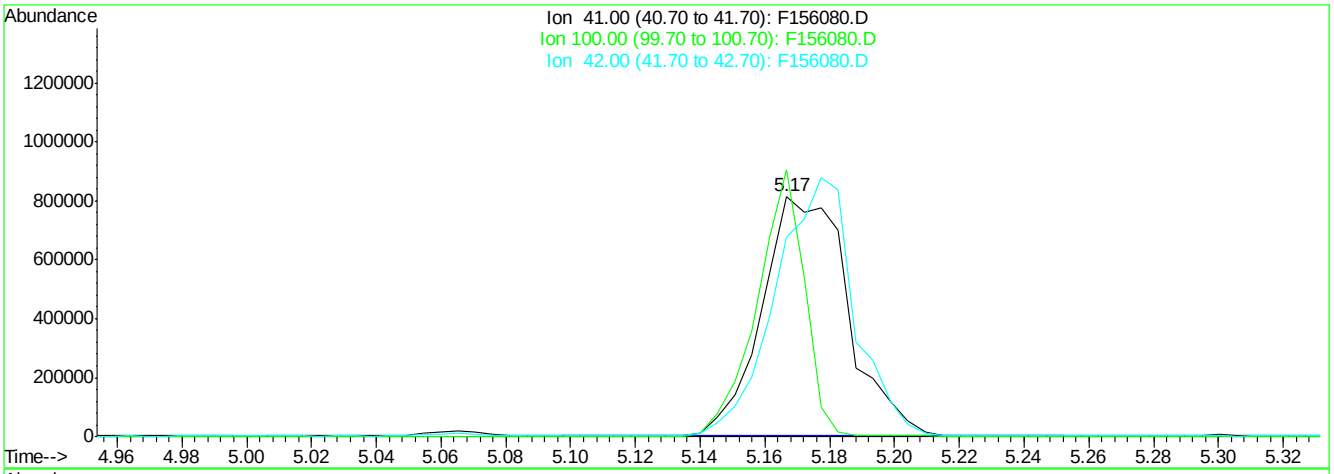
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156080.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 14:12	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

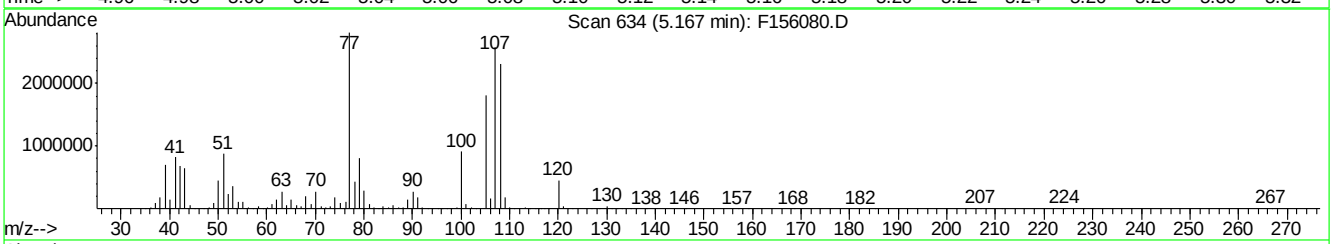
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.17	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak
p-Phenylenediamine	106-50-3		6.34	Split peak

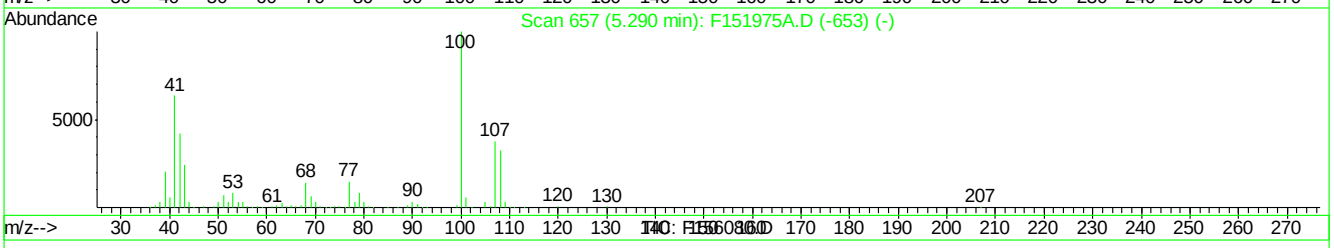
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:45 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.17min 178.23ppm

response 1508213

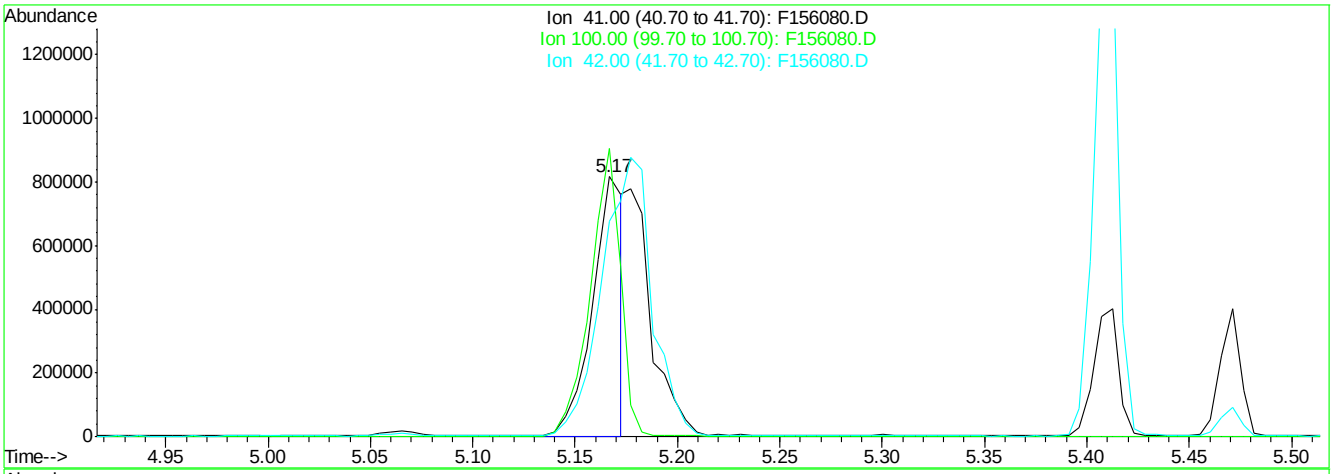
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	111.28#
42.00	69.80	82.92
0.00	0.00	0.00

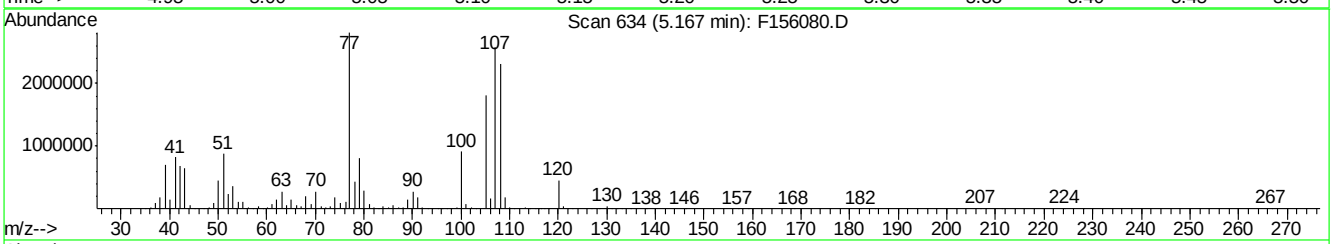
F156080.D MF6563AP9.M Fri Apr 08 15:45:31 2016 RT1

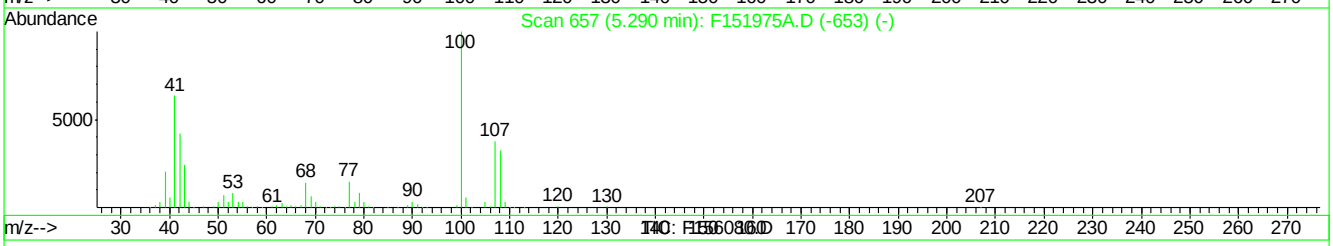
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.17min 99.84ppm m

response 844854

Ion	Exp%	Act%
41.00	100	100
100.00	153.60	110.94#
42.00	69.80	82.92
0.00	0.00	0.00

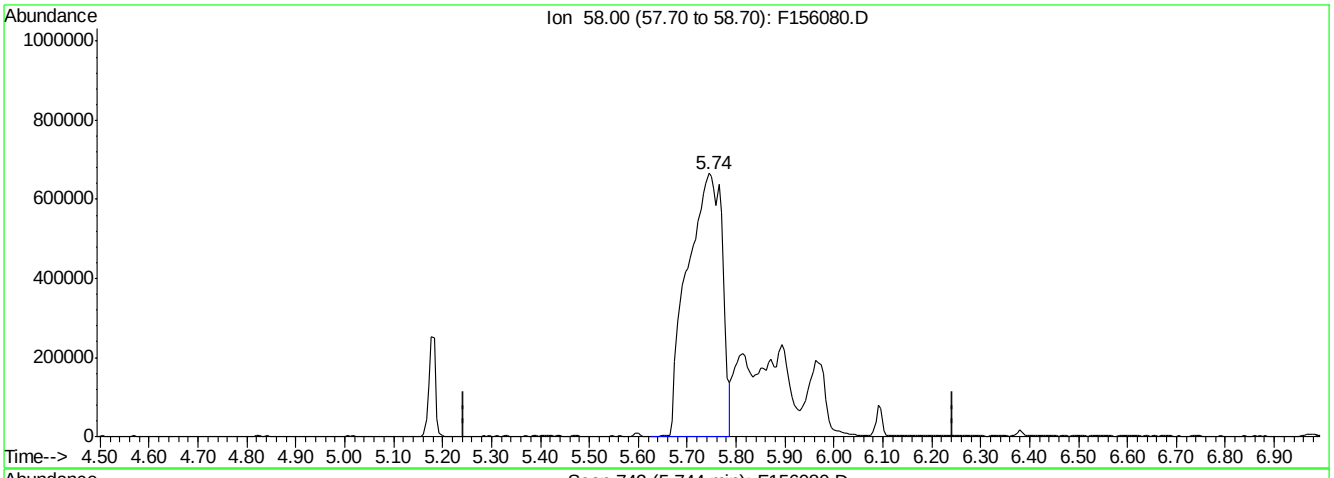
F156080.D MF6563AP9.M Fri Apr 08 15:46:27 2016 RT1

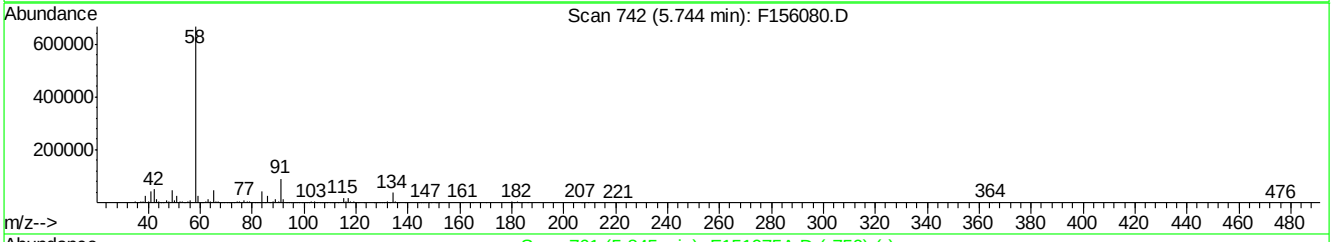
SGS ACCUTEST JC19214

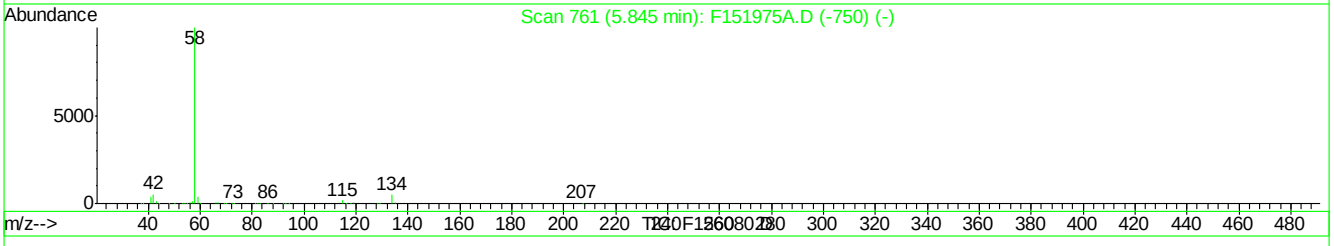
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 62.71ppm

response 3269400

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

F156080.D MF6563AP9.M Fri Apr 08 15:46:35 2016 RT1

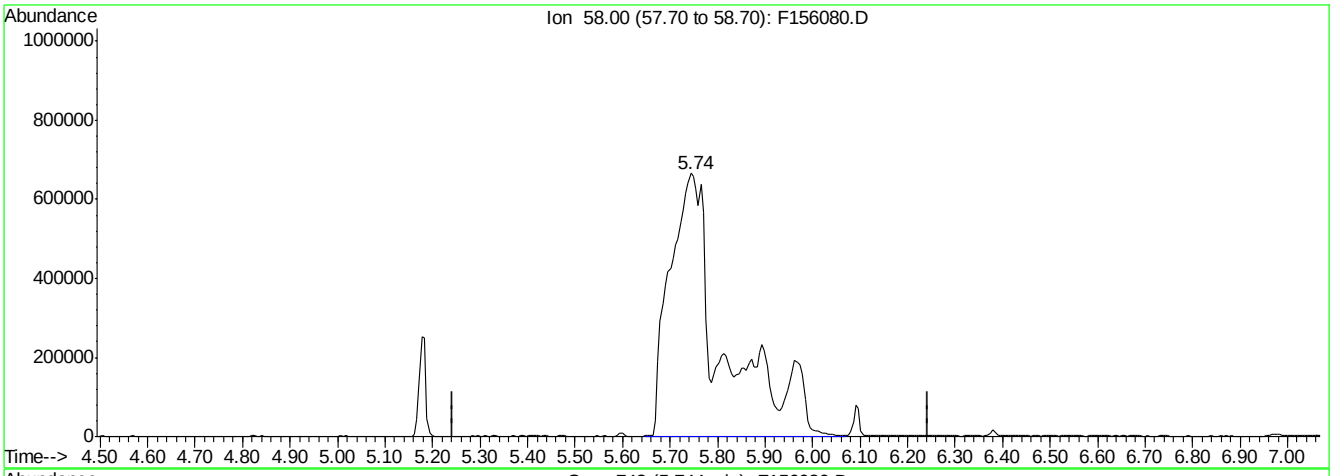
7.6.38.4

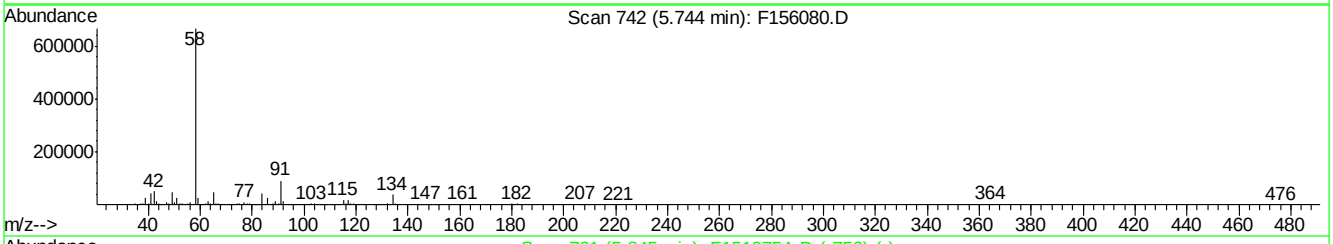
7

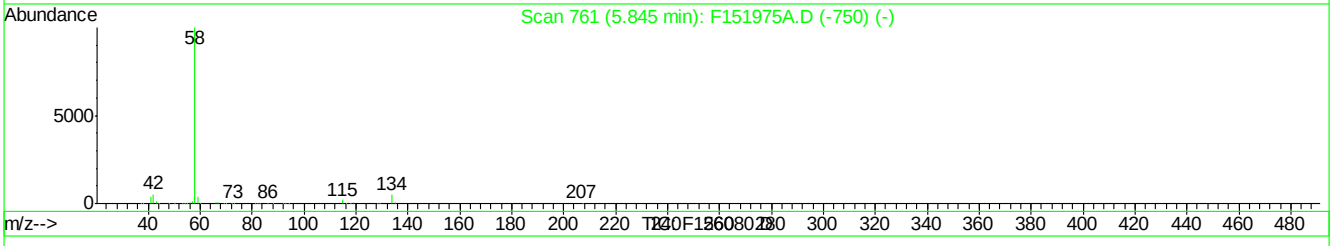
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 99.71ppm m

response 5198037

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

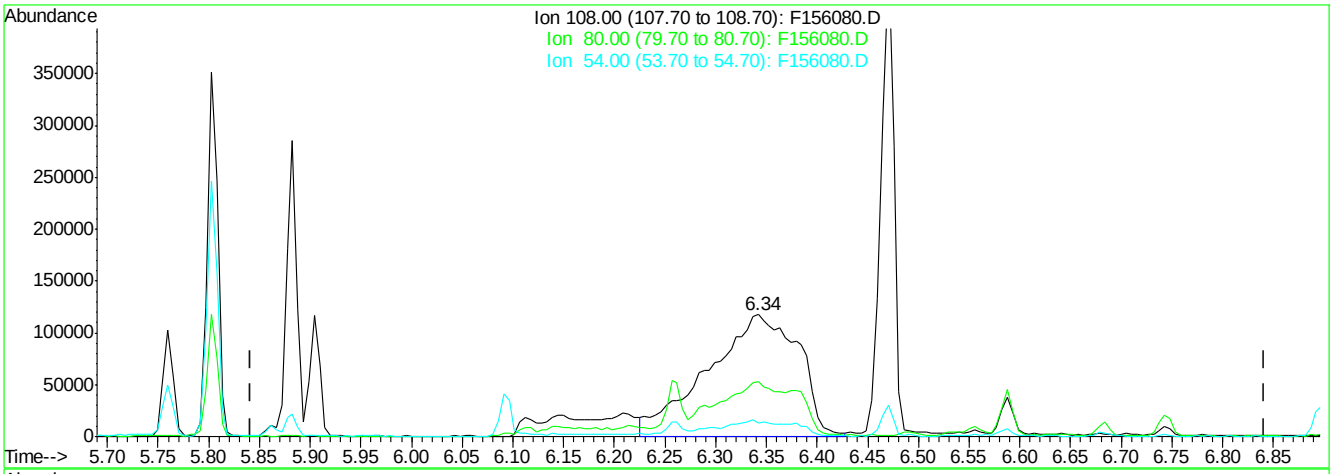
F156080.D MF6563AP9.M Fri Apr 08 15:47:45 2016 RT1

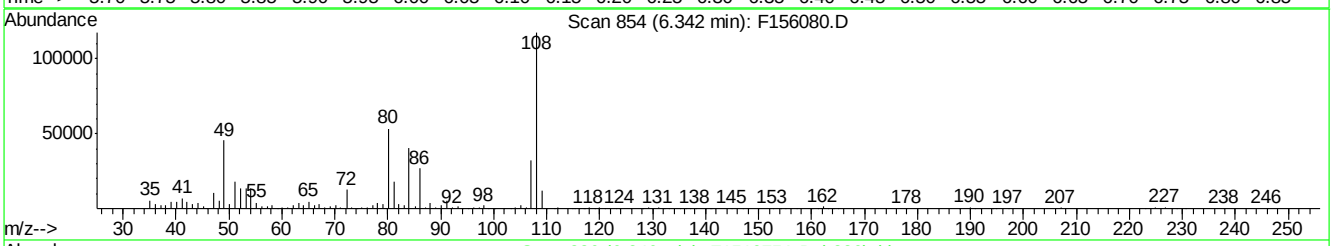
SGS ACCUTEST JC19214

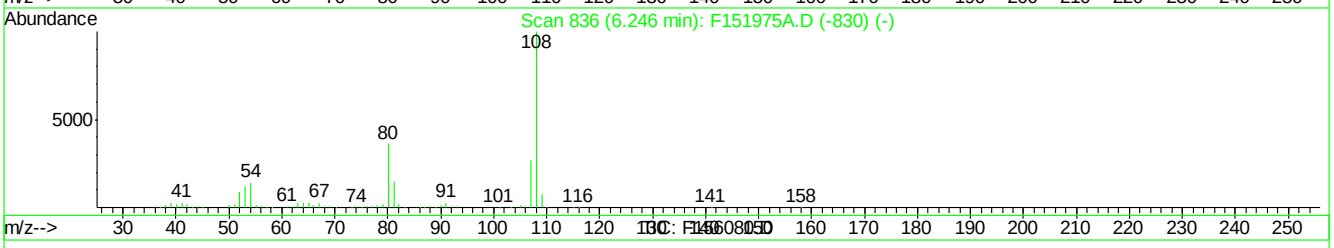
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.34min 84.48ppm

response 727783

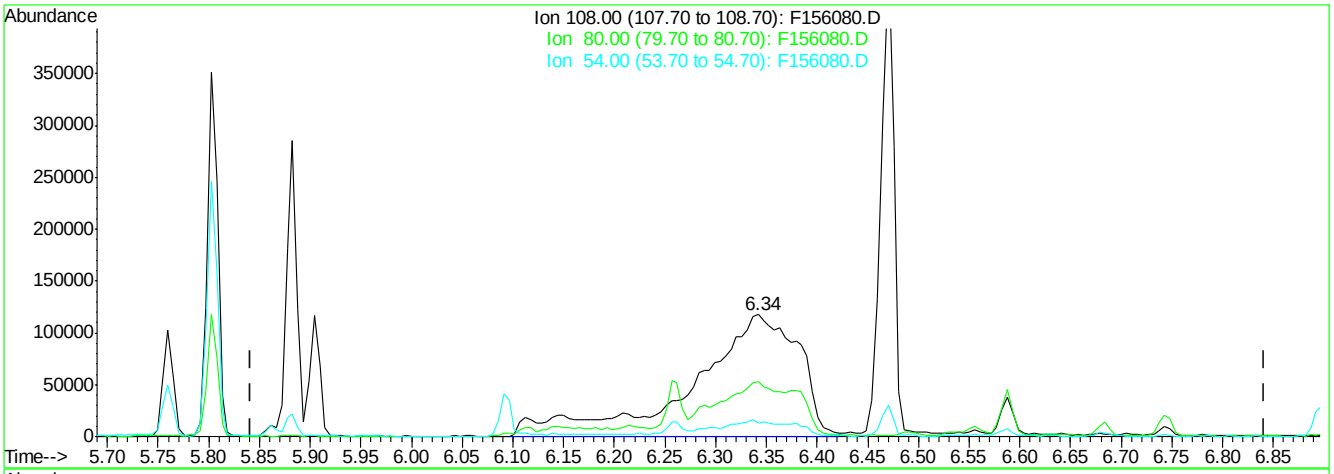
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.13
54.00	13.10	10.59
0.00	0.00	0.00

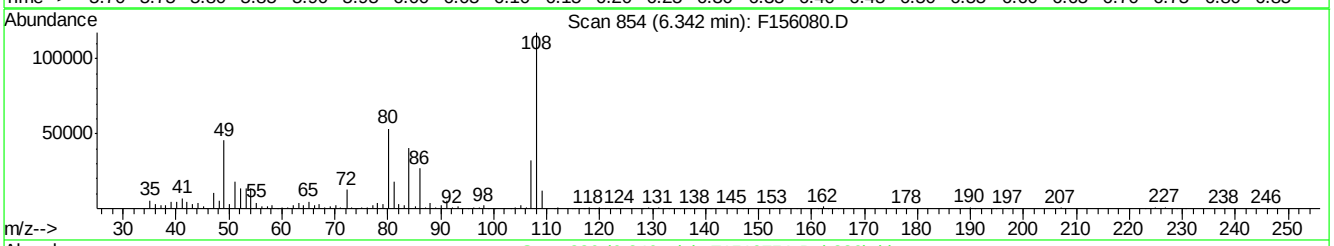
F156080.D MF6563AP9.M Fri Apr 08 15:47:54 2016 RT1

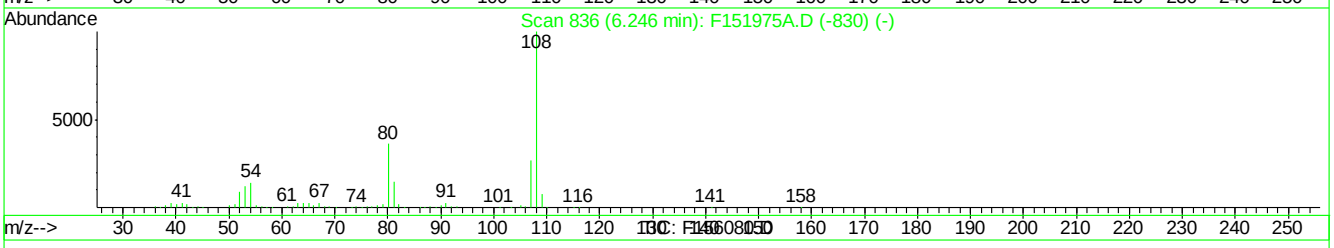
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156080.D Vial: 2
Acq On : 5 Apr 2016 2:12 pm Operator: linseyk
Sample : ic6566-100 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.34min 99.85ppm m

response 860205

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.45
54.00	13.10	11.41
0.00	0.00	0.00

F156080.D MF6563AP9.M Fri Apr 08 15:48:01 2016 RT1

SGS ACCUTEST JC19214

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:48:58 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	605683	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2355974	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1404096	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2191500	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1980455	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	1820394	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	605683	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2355974	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1404096	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2191500	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1980455	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	1820394	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	605683	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2355974	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1404096	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2191500	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1980569	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	605683	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2355974	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1980569	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2355974	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1980569	40.00	ppm	0.02

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
103) 2-Picoline	3.41	93	1880422	79.15	ppm	96
104) Pentachloroethane	4.67	167	608678	80.17	ppm	90
105) Methyl methanesulfonate	3.75	80	946872	80.02	ppm	96
106) N-Nitrosodiethylamine	4.07	102	802312	78.72	ppm	92
107) N-Nitrosomethylethylamine	3.51	42	752488	78.05	ppm	98
108) Ethyl methanesulfonate	4.30	79	1321660	79.10	ppm	94
109) N-Nitrosopyrrolidine	5.16	41	597919m	71.74	ppm	
110) N-Nitrosomorpholine	5.19	56	876577	79.75	ppm	95
111) o-Toluidine	5.20	106	2283729	81.10	ppm	97
113) O,O,O-Triethyl phosphoroth	5.60	198	673500	83.65	ppm	87
114) N-Nitrosopiperidine	5.41	42	974720	79.34	ppm	88
115) A,A-Dimethylphenethylamine	5.74	58	3993351m	78.94	ppm	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:48:58 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	864961	83.97	ppm		99
117)	p-Phenylenediamine	6.32	108	711009m	85.05	ppm		
118)	N-Nitrosodi-n-butylamine	6.09	84	1106087	67.09	ppm		95
119)	Safrole	6.26	162	1157645	83.10	ppm		96
120)	Isosafrole	6.68	162	396166	78.62	ppm		98
122)	Thionazin	7.85	143	421865	82.53	ppm		97
123)	Tetraethyl dithiopyrophosp	8.25	322	361666	82.09	ppm		100
124)	Phorate	8.45	75	2326708	81.28	ppm		100
125)	Phenacetin	8.47	108	1835900	79.95	ppm		98
126)	1,4-Naphthoquinone	6.90	158	715868	86.16	ppm		94
127)	m-Dinitrobenzene	7.02	168	533716	80.98	ppm		75
128)	Pentachlorobenzene	7.45	250	1020890	83.30	ppm		99
129)	1-Naphthylamine	7.58	143	2392261	82.56	ppm		98
130)	2-Naphthylamine	7.67	143	2836212	82.48	ppm		99
131)	5-Nitro-o-toluidine	7.90	152	984040	79.38	ppm		86
133)	Disulfoton	9.25	88	1806233	80.64	ppm		95
134)	Dinoseb	9.23	211	781481	81.35	ppm		97
135)	Dimethoate	8.69	87	1299681	83.92	ppm		92
136)	4-Aminobiphenyl	8.93	169	2893629	167.67	ppm		99
137)	Methyl parathion	9.89	125	858701	85.41	ppm		90
138)	Parathion	10.64	109	690464	80.88	ppm		91
139)	Diphenylamine	8.04	169	4437717	84.99	ppm		99
140)	Isodrin	11.13	193	525647	84.45	ppm		98
141)	Diallate	8.56	86	282599	62.01	ppm		96
142)	Pentachloronitrobenzene	8.95	295	246184	169.91	ppm		87
143)	Pronamide	9.05	173	1374778	81.85	ppm		96
144)	4-Nitroquinoline 1-oxide	10.66	190	1950458	339.38	ppm		93
145)	Methapyriline	10.91	58	984298	92.32	ppm		98
146)	sym-Trinitrobenzene	8.38	213	320547	78.92	ppm	#	29
148)	Aramite	12.53	185	277911	165.04	ppm		94
149)	p-(Dimethylamine)azobenzen	12.63	120	1599456	84.15	ppm		71
150)	Kepone	13.35	272	672752	417.70	ppm		99
151)	Famphur	13.32	218	3413057	599.35	ppm		93
152)	2-Acetylaminofluorene	13.92	181	2101402	82.21	ppm		97
153)	3,3'-Dimethylbenzidine	13.37	212	438430	104.41	ppm		100
154)	Chlorobenzilate	12.77	251	1242103	85.11	ppm		97
156)	4,4-Methylene-bis-(2-chlor	14.59	266	356405	81.68	ppm		85
157)	3-Methylcholanthrene	18.21	268	2007169	83.80	ppm		96
158)	Hexachlorophene	17.34	196	1817802	475.68	ppm		99

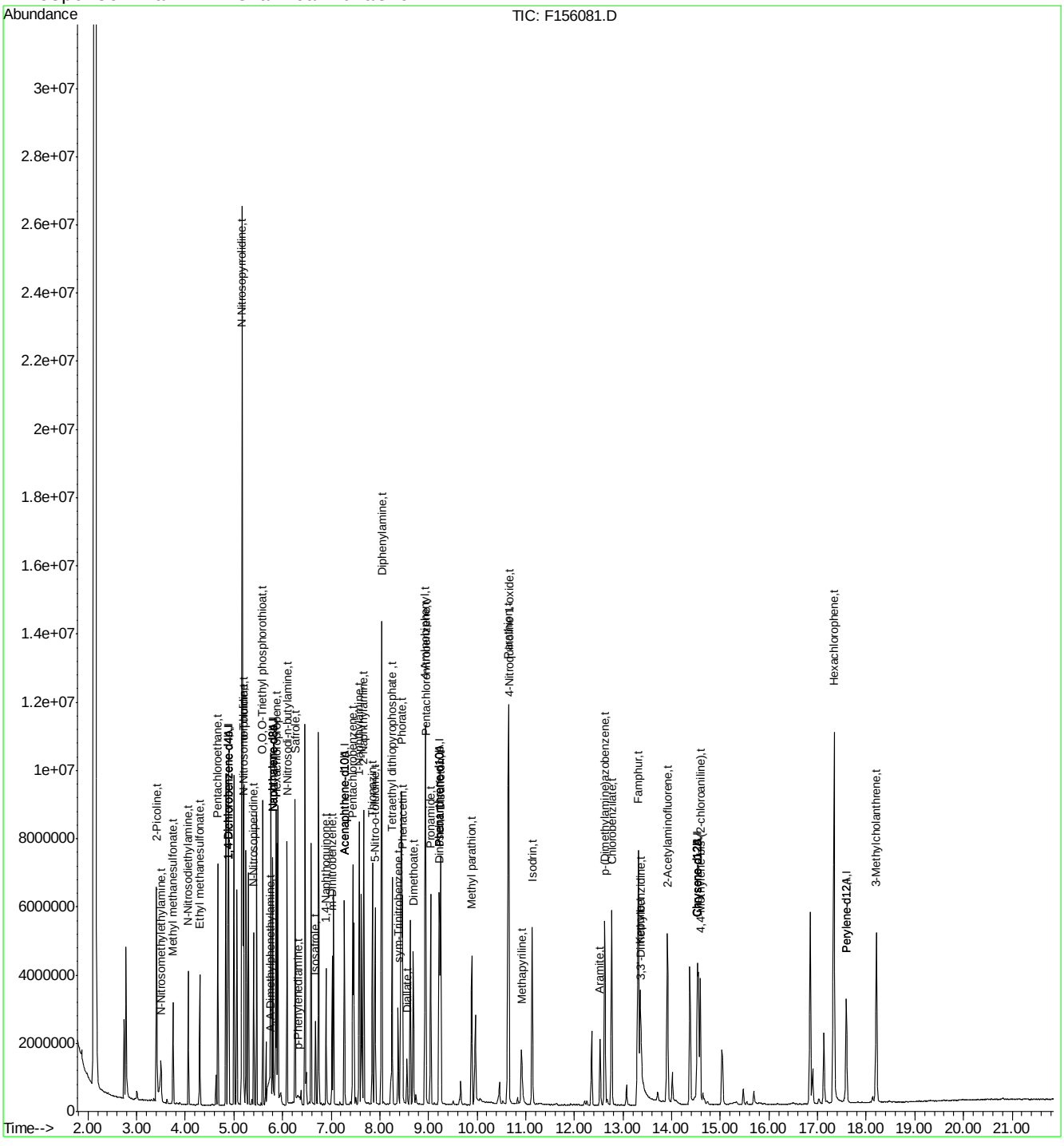
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:51 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Manual Integration Approval Summary

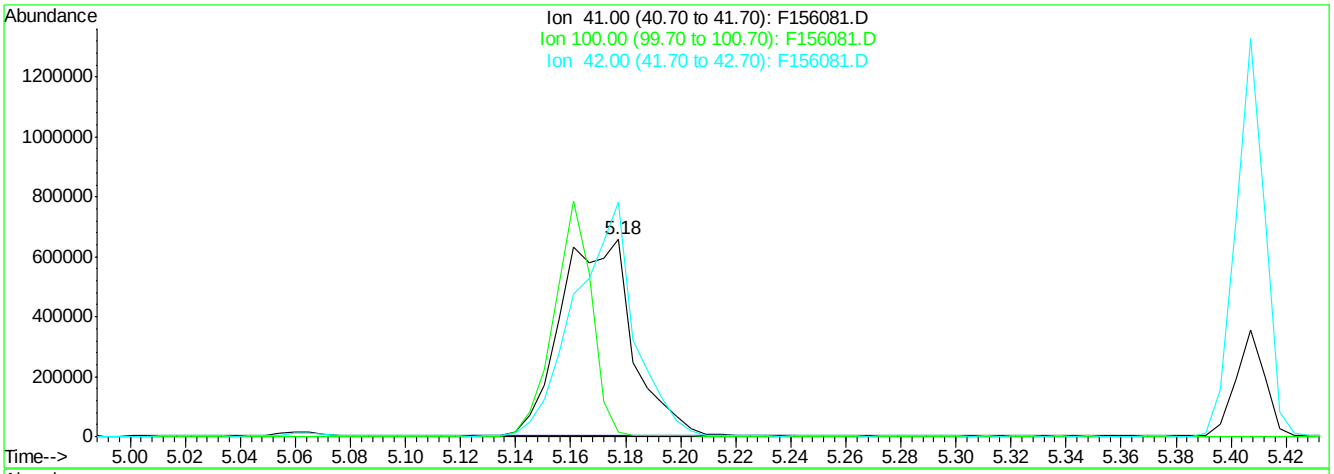
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156081.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 14:41	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

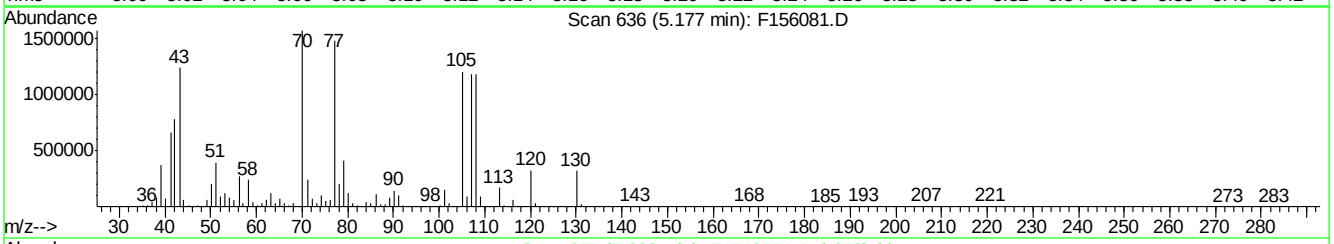
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.16	Overlapping peak
A,A-Dimethylphenethylamine	122-09-8		5.74	Split peak
p-Phenylenediamine	106-50-3		6.32	Split peak

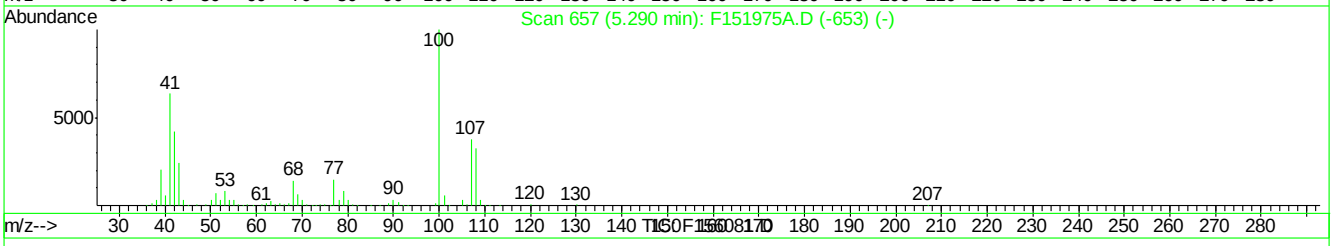
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:49 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.18min 143.03ppm

response 1192006

Ion	Exp%	Act%
41.00	100	100
100.00	153.60	2.18#
42.00	69.80	118.60#
0.00	0.00	0.00

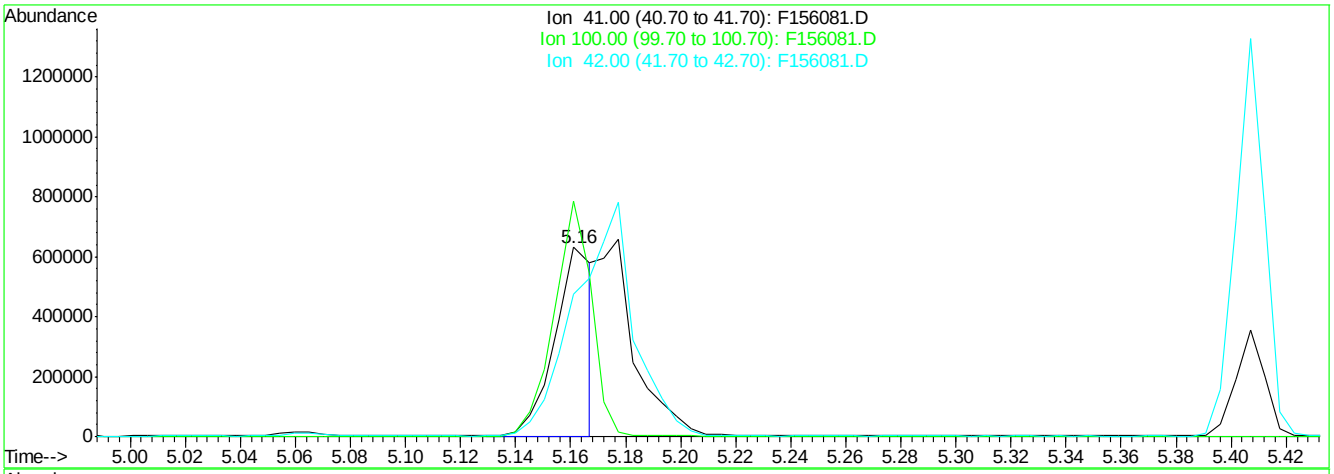
F156081.D MF6563AP9.M Fri Apr 08 15:49:56 2016 RT1

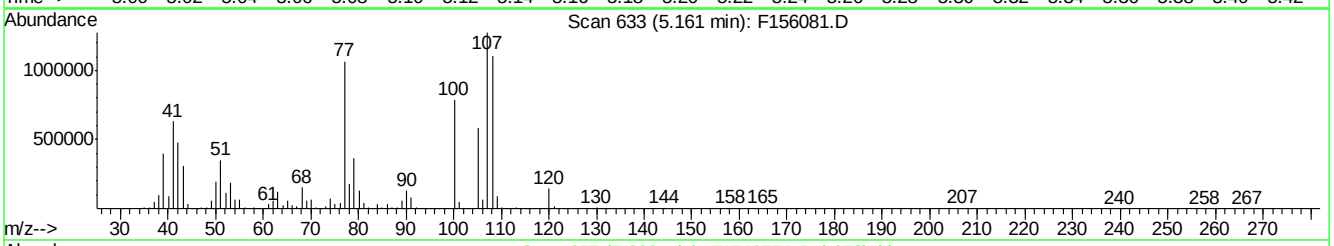
SGS ACCUTEST JC19214

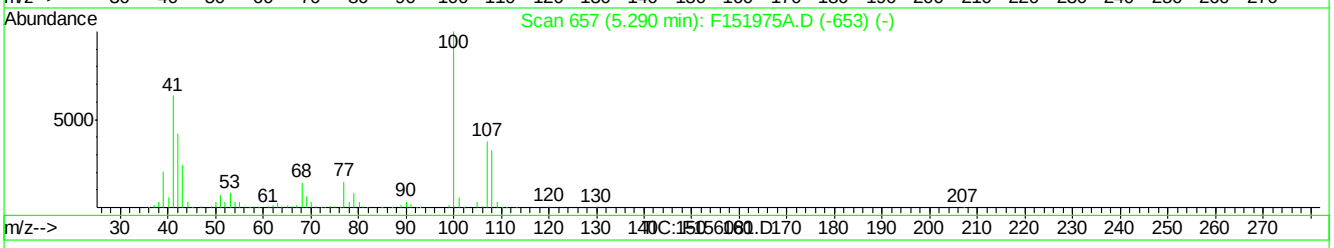
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(109) N-Nitrosopyrrolidine (t)

5.16min 71.74ppm m

response 597919

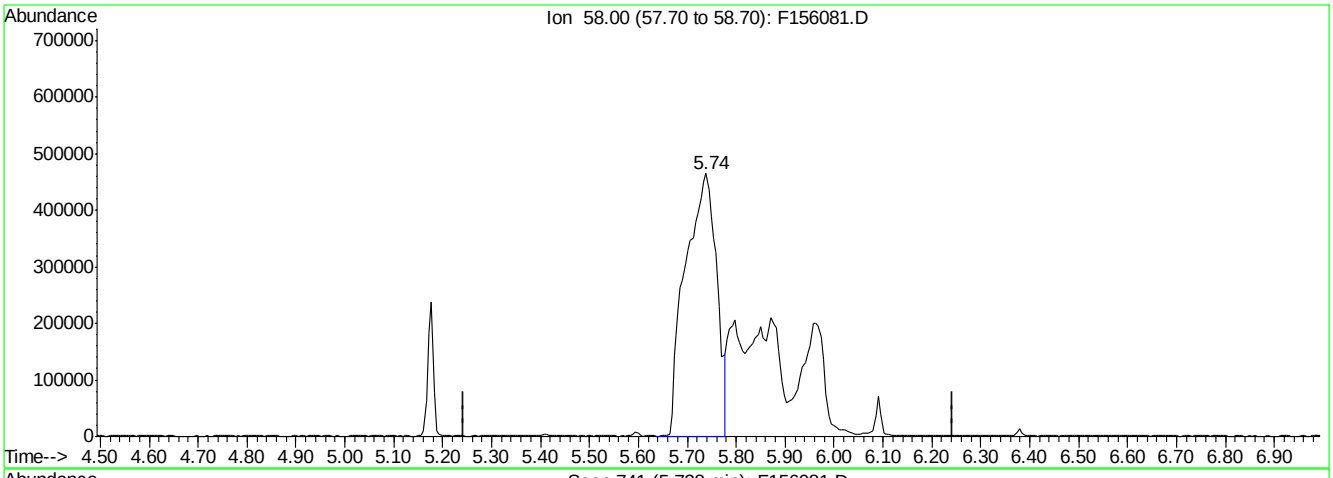
Ion	Exp%	Act%
41.00	100	100
100.00	153.60	124.28
42.00	69.80	75.46
0.00	0.00	0.00

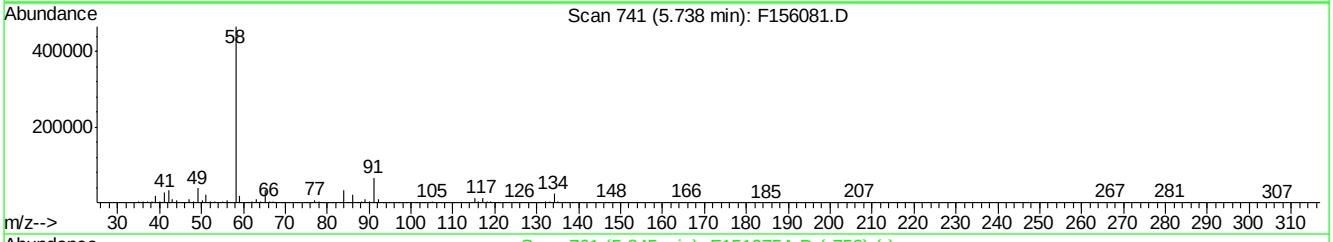
F156081.D MF6563AP9.M Fri Apr 08 15:50:16 2016 RT1

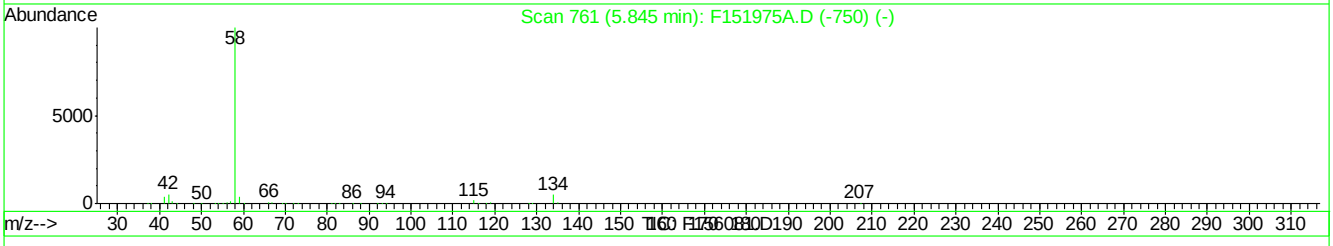
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 40.48ppm

response 2047808

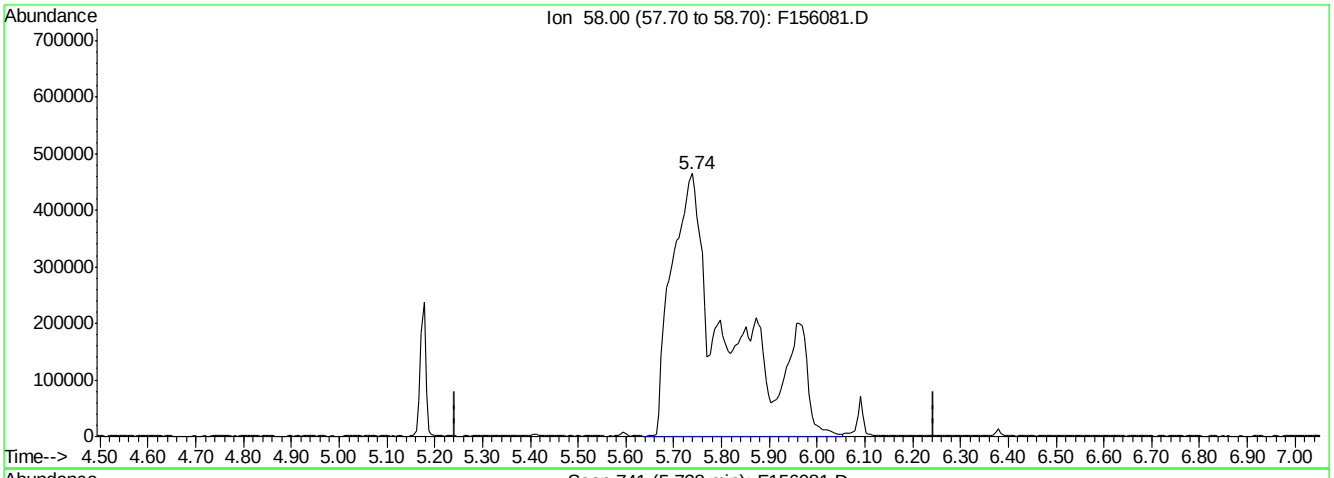
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

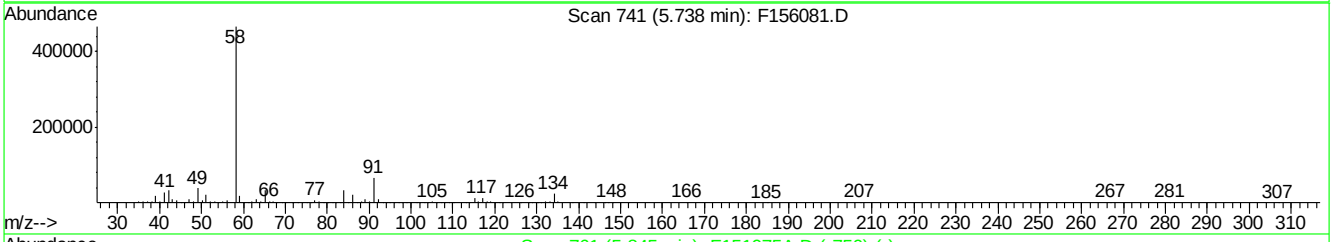
F156081.D MF6563AP9.M Fri Apr 08 15:50:23 2016 RT1

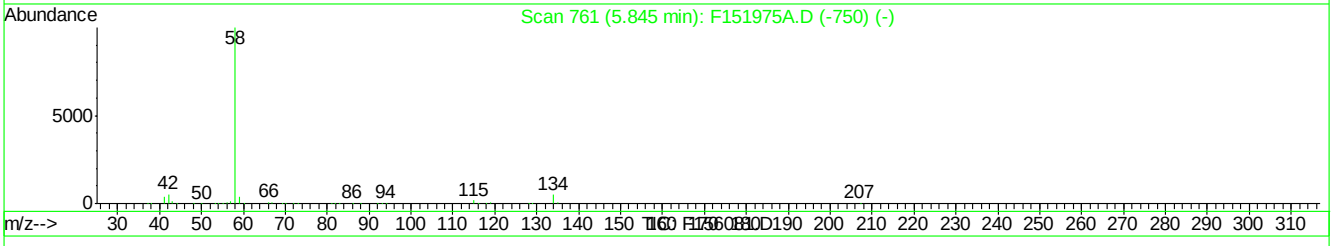
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.74min 78.94ppm m

response 3993351

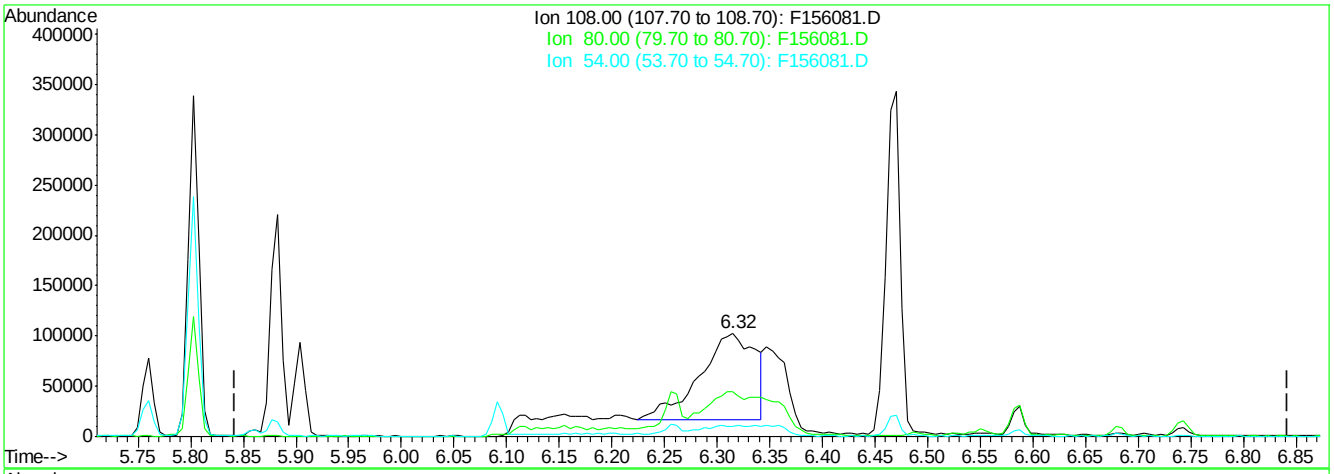
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

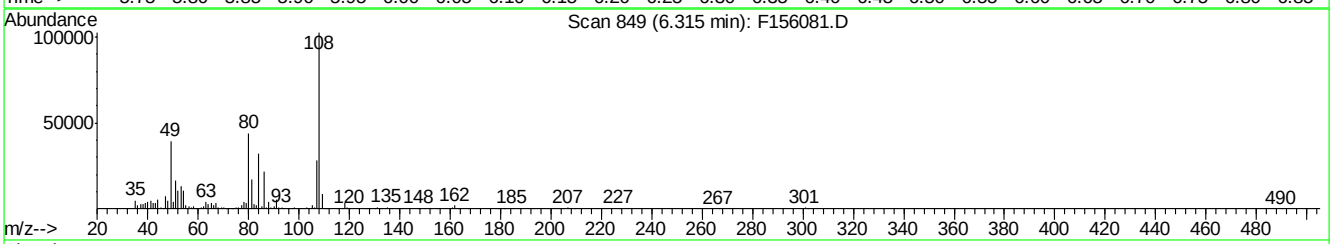
F156081.D MF6563AP9.M Fri Apr 08 15:50:45 2016 RT1

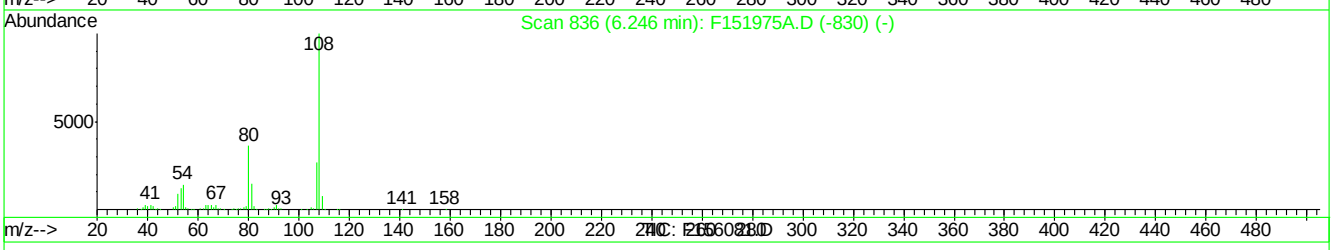
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.32min 37.33ppm

response 312095

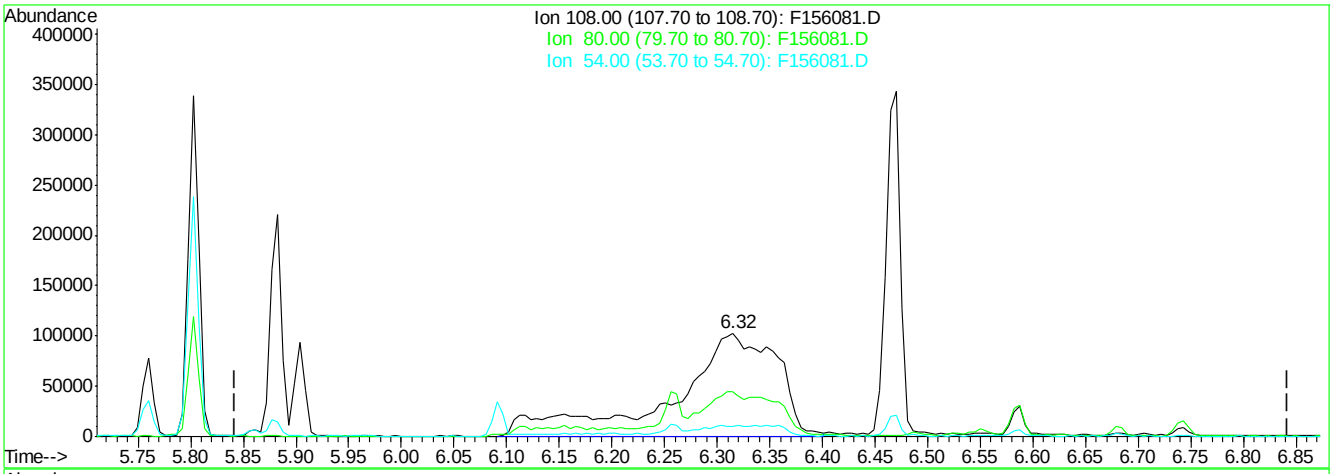
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	38.42
54.00	13.10	7.64
0.00	0.00	0.00

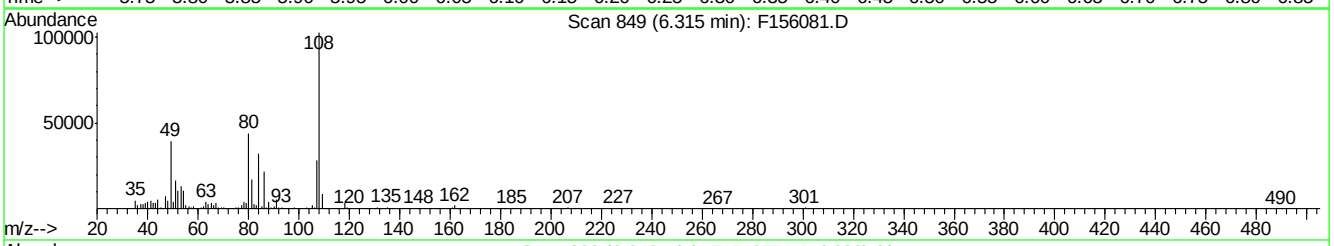
F156081.D MF6563AP9.M Fri Apr 08 15:50:52 2016 RT1

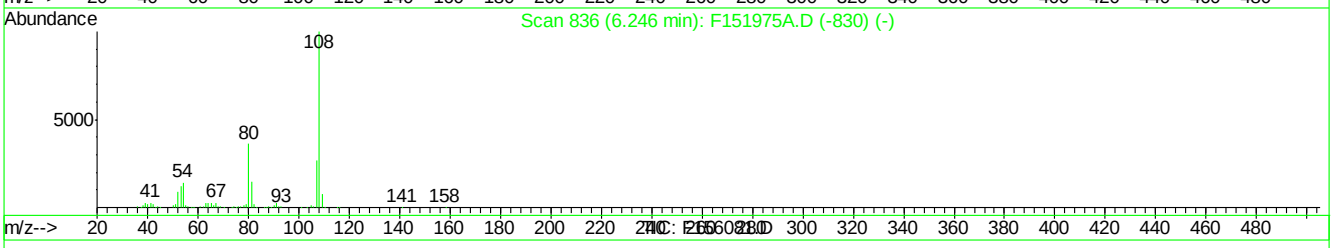
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156081.D Vial: 3
Acq On : 5 Apr 2016 2:41 pm Operator: linseyk
Sample : ic6566-80 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.32min 85.05ppm m

response 711009

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.96
54.00	13.10	10.28
0.00	0.00	0.00

F156081.D MF6563AP9.M Fri Apr 08 15:51:01 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:52:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	566170	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2205240	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1313186	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	2128176	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1916538	40.00	ppm	-0.02
92) Perylene-d12	17.59	264	1808561	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	566170	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2205240	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1313186	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	2128176	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1916538	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	1808561	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	566170	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2205240	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1313186	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	2128176	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1916512	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	566170	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2205240	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1916512	40.00	ppm	-0.02
178) Naphthalene-d8a	5.80	136	2205240	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1916512	40.00	ppm	0.02

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
103) 2-Picoline	3.41	93	1050869	47.32	ppm	95
104) Pentachloroethane	4.67	167	350709	49.41	ppm	91
105) Methyl methanesulfonate	3.75	80	557537	50.40	ppm	97
106) N-Nitrosodiethylamine	4.06	102	447448	46.97	ppm	95
107) N-Nitrosomethylethylamine	3.50	42	409560	45.44	ppm	98
108) Ethyl methanesulfonate	4.30	79	725065	46.42	ppm	95
109) N-Nitrosopyrrolidine	5.16	41	352636	45.27	ppm	89
110) N-Nitrosomorpholine	5.18	56	506637	49.31	ppm	94
111) o-Toluidine	5.19	106	1383780	52.57	ppm	97
113) O,O,O-Triethyl phosphoroth	5.59	198	406036	53.88	ppm	99
114) N-Nitrosopiperidine	5.40	42	542907	47.21	ppm	89
115) A,A-Dimethylphenethylamine	5.73	58	2209555m	46.66	ppm	

(#) = qualifier out of range (m) = manual integration
F156082.D MF6563AP9.M Fri Apr 08 17:17:23 2016 RT1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:52:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	500078	51.87	ppm		99
117)	p-Phenylenediamine	6.10	108	556590m	71.13	ppm		
118)	N-Nitrosodi-n-butylamine	6.09	84	647025	41.93	ppm		97
119)	Safrole	6.26	162	668993	51.31	ppm		95
120)	Isosafrole	6.68	162	549344	116.47	ppm		98
122)	Thionazin	7.84	143	233746	48.89	ppm		97
123)	Tetraethyl dithiopyrophosp	8.25	322	211485	51.33	ppm		100
124)	Phorate	8.44	75	1315024	49.12	ppm		100
125)	Phenacetin	8.46	108	1039679	48.41	ppm		97
126)	1,4-Naphthoquinone	6.89	158	576440	74.18	ppm		86
127)	m-Dinitrobenzene	7.02	168	295826	47.99	ppm		74
128)	Pentachlorobenzene	7.45	250	606709	52.93	ppm		100
129)	1-Naphthylamine	7.58	143	1461706	53.94	ppm		96
130)	2-Naphthylamine	7.67	143	1745476	54.28	ppm		98
131)	5-Nitro-o-toluidine	7.89	152	550656	47.49	ppm		87
133)	Disulfoton	9.25	88	1091315	50.17	ppm		94
134)	Dinoseb	9.23	211	422182	45.26	ppm		97
135)	Dimethoate	8.68	87	792449	52.69	ppm		93
136)	4-Aminobiphenyl	8.93	169	1834721	109.47	ppm		98
137)	Methyl parathion	9.88	125	516662	52.92	ppm		90
138)	Parathion	10.64	109	406063	48.98	ppm		93
139)	Diphenylamine	8.04	169	2709429	53.44	ppm		100
140)	Isodrin	11.13	193	294866	48.78	ppm		98
141)	Diallate	8.56	86	156425	35.34	ppm		91
142)	Pentachloronitrobenzene	8.94	295	157649	112.04	ppm		98
143)	Pronamide	9.05	173	840320	51.52	ppm		92
144)	4-Nitroquinoline 1-oxide	10.64	190	1078375	193.22	ppm		92
145)	Methapyriline	10.89	58	737702m	71.25	ppm		
146)	sym-Trinitrobenzene	8.38	213	202061	51.23	ppm	#	64
148)	Aramite	12.53	185	196364	120.50	ppm		93
149)	p-(Dimethylamine)azobenzen	12.62	120	920708	50.06	ppm		69
150)	Kepone	13.35	272	598419	383.94	ppm		96
151)	Famphur	13.31	218	2940315	533.55	ppm		94
152)	2-Acetylaminofluorene	13.91	181	1214385	49.09	ppm		96
153)	3,3'-Dimethylbenzidine	13.37	212	488120	120.12	ppm		100
154)	Chlorobenzilate	12.76	251	703452	49.81	ppm		99
156)	4,4-Methylene-bis-(2-chlor	14.59	266	222605	51.35	ppm		90
157)	3-Methylcholanthrene	18.20	268	1172815	49.28	ppm		96
158)	Hexachlorophene	17.32	196	698597	184.01	ppm		99

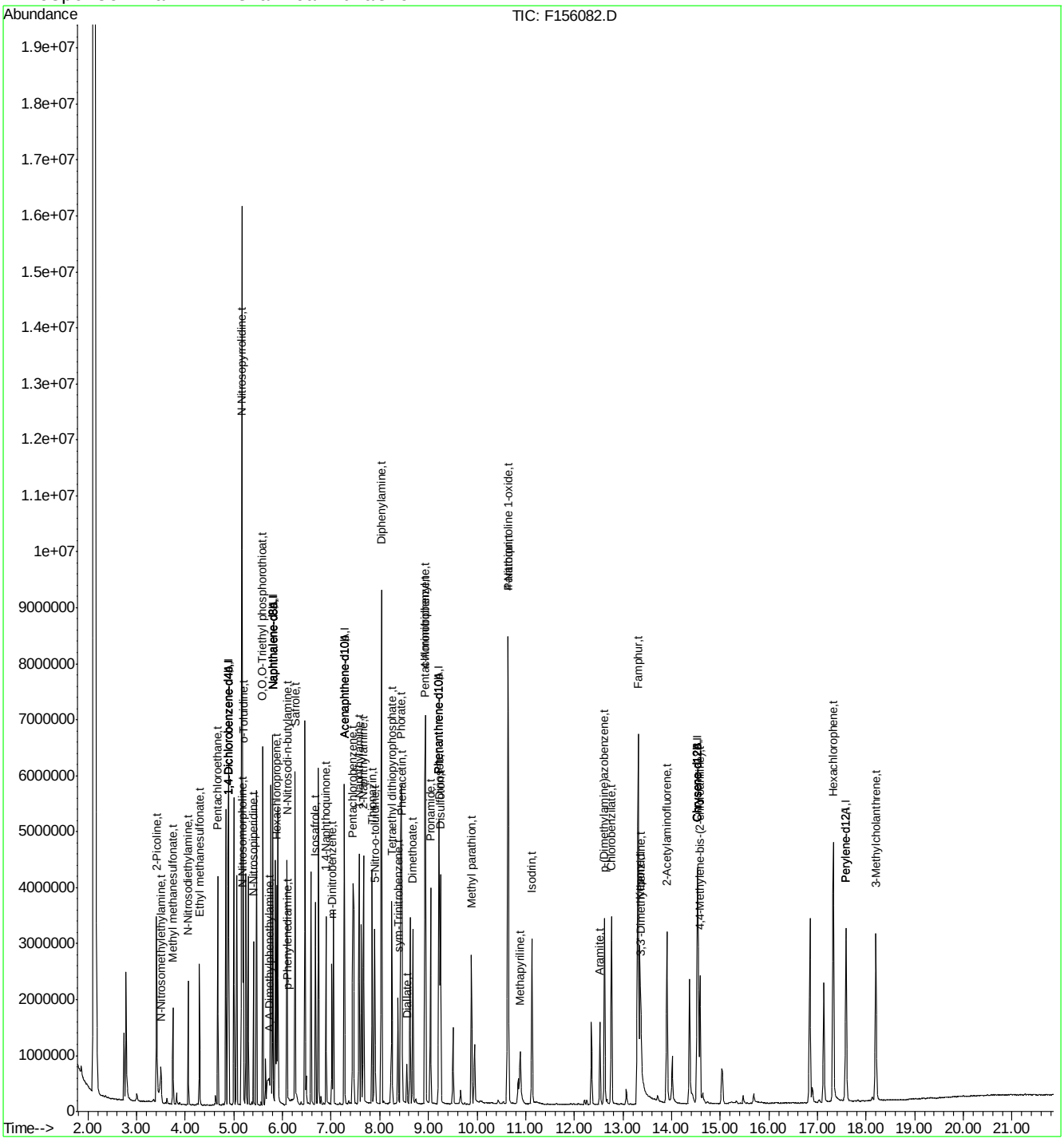
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:54 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156082.D MF6563AP9.M Fri Apr 08 17:17:24 2016 RT1 Page 3

Manual Integration Approval Summary

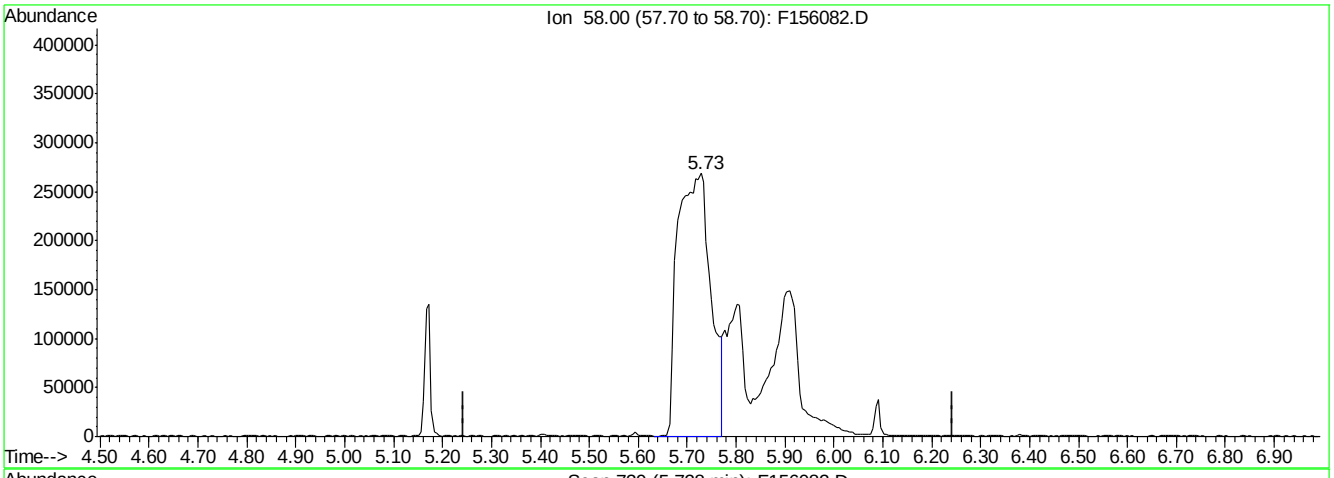
Sample Number:	EF6566-ICC6566	**Method:**	SW846 8270D
Lab FileID:	F156082.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 15:11	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

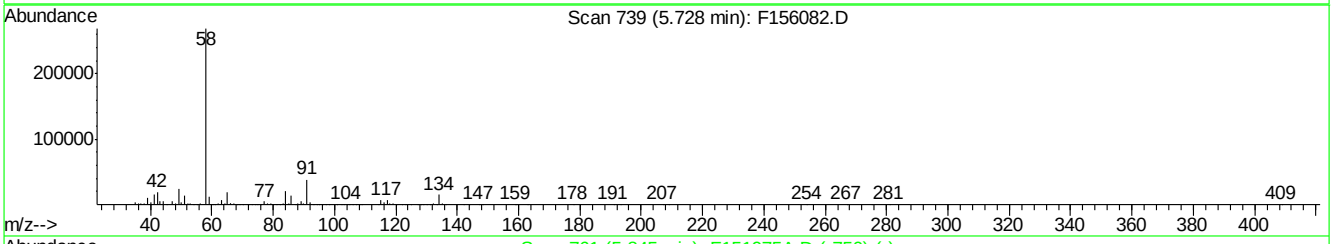
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.73	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak
Methapyrilene	91-80-5		10.89	Split peak

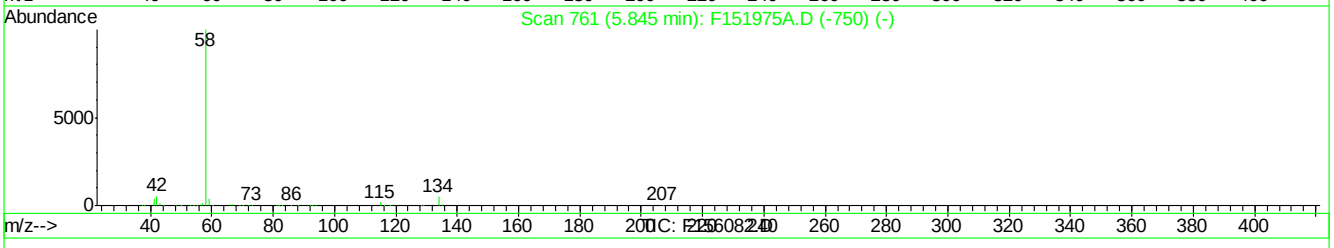
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:52 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.73min 26.69ppm

response 1264030

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

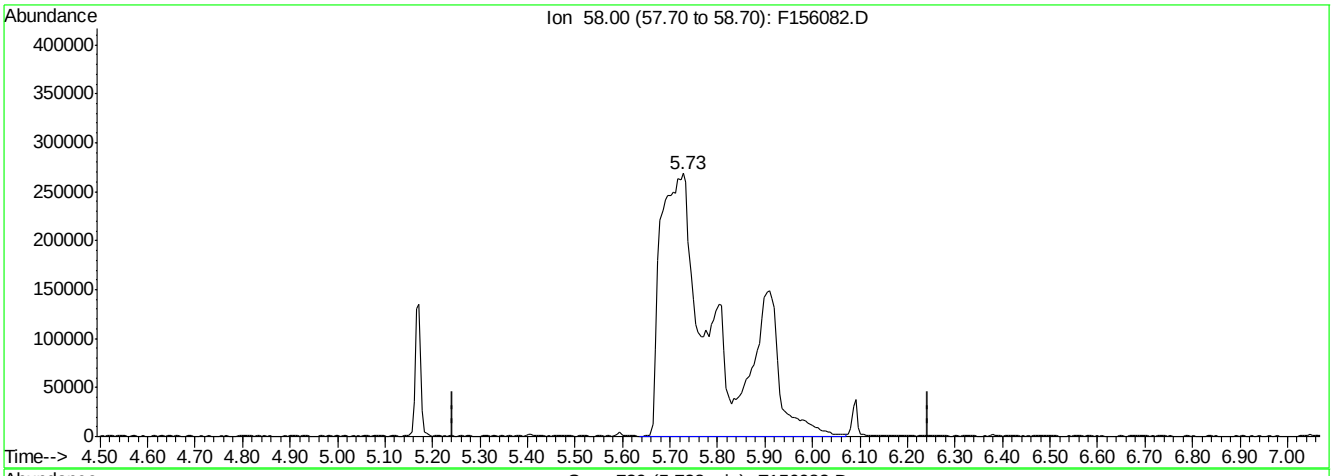
F156082.D MF6563AP9.M Fri Apr 08 15:53:10 2016 RT1

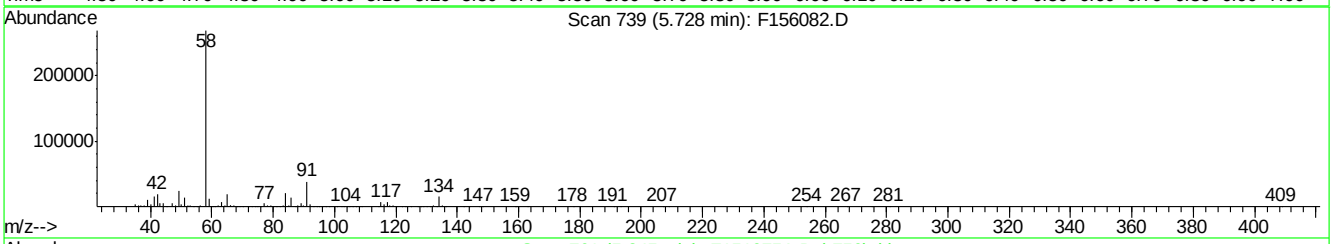
SGS ACCUTEST JC19214

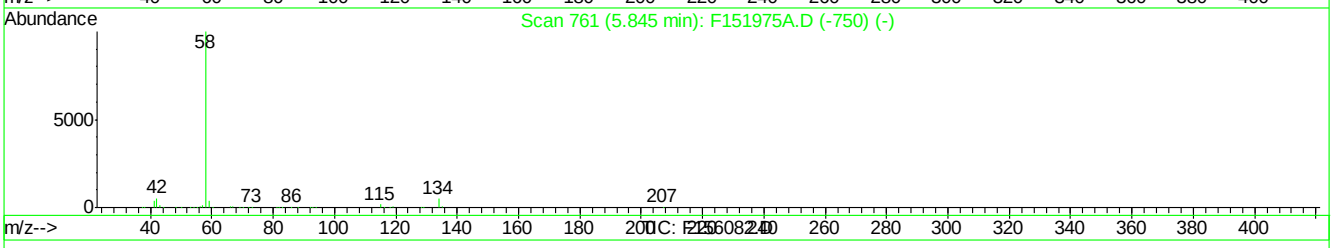
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.73min 46.66ppm m

response 2209555

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

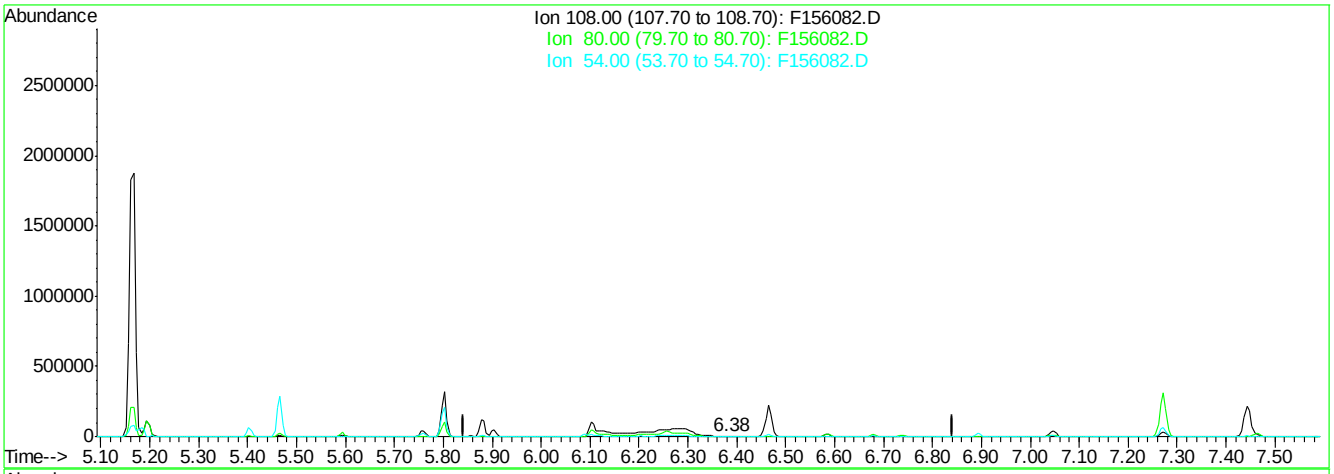
F156082.D MF6563AP9.M Fri Apr 08 15:53:24 2016 RT1

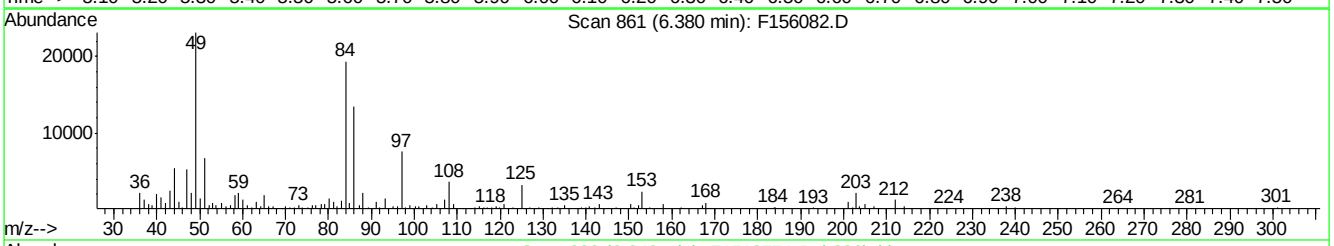
SGS ACCUTEST JC19214

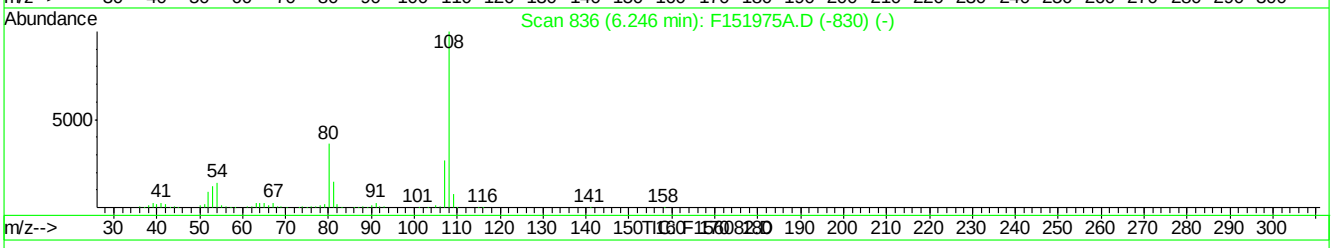
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.38min 0.39ppm

response 3017

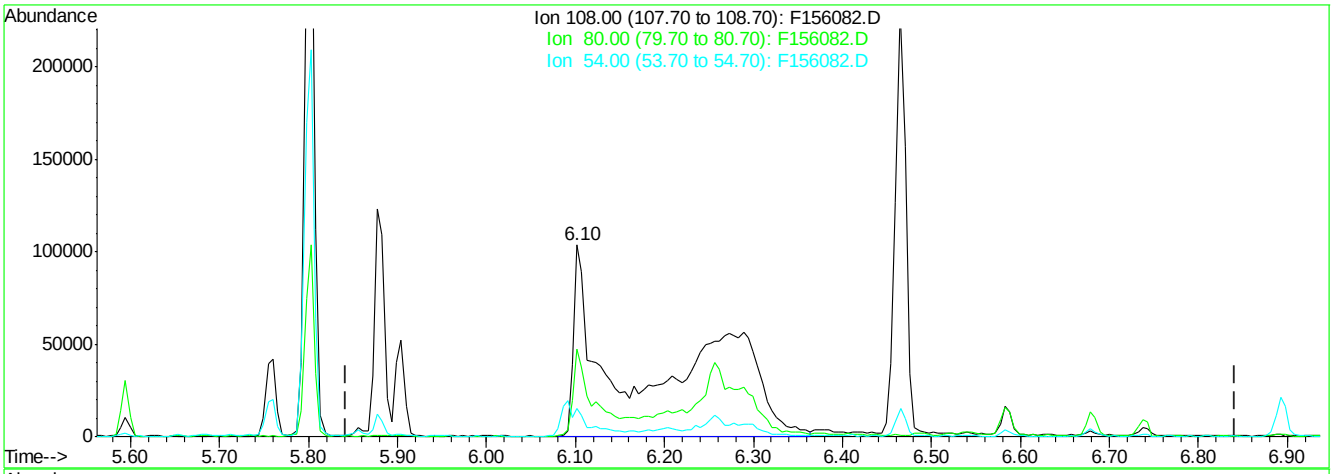
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	9.45
54.00	13.10	0.00
0.00	0.00	0.00

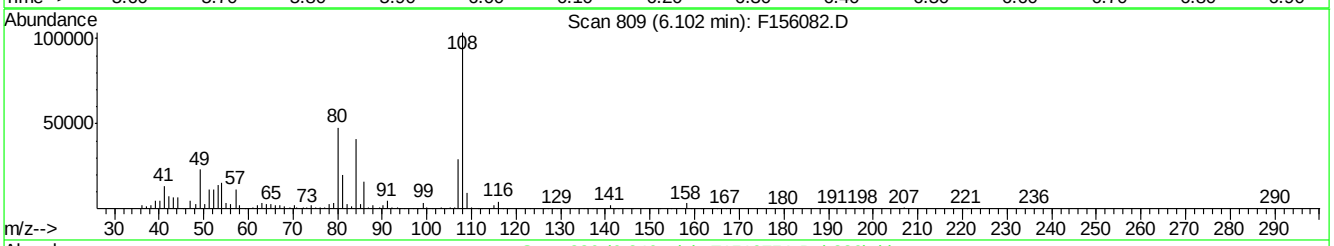
F156082.D MF6563AP9.M Fri Apr 08 15:53:29 2016 RT1

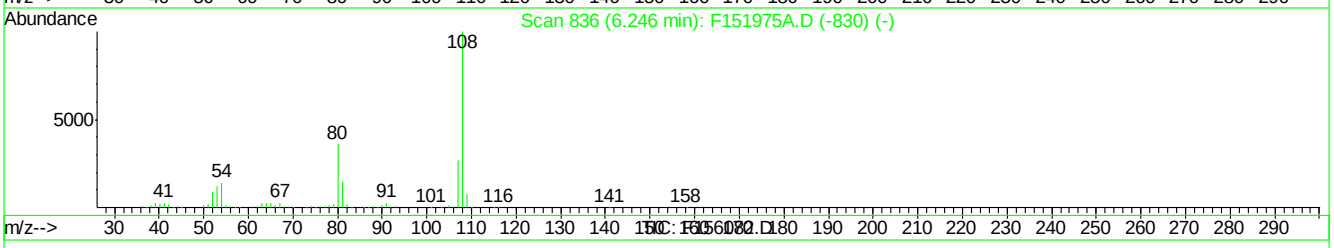
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.10min 71.13ppm m

response 556590

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	45.97
54.00	13.10	14.51
0.00	0.00	0.00

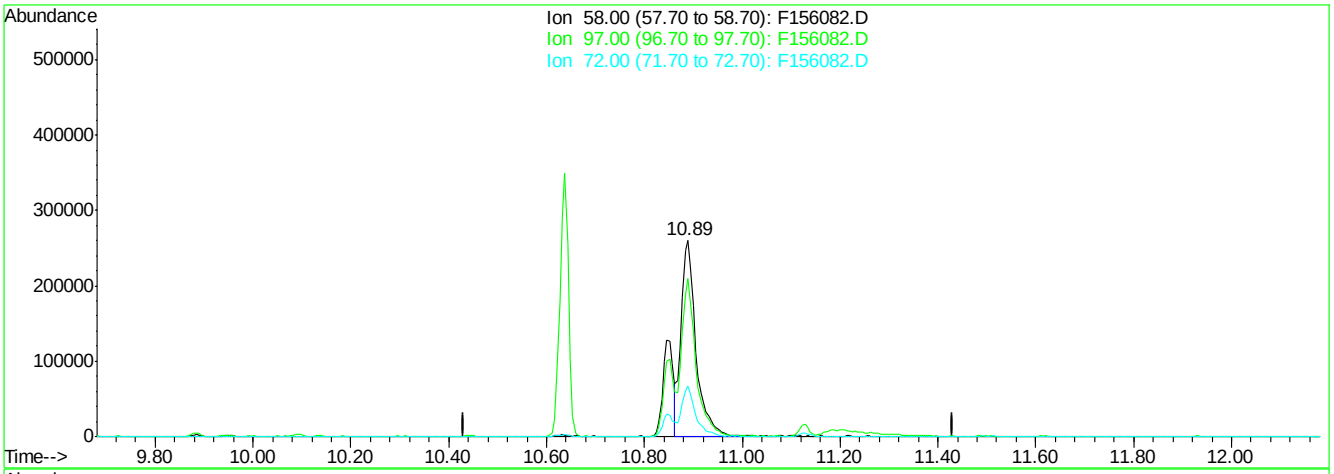
F156082.D MF6563AP9.M Fri Apr 08 15:53:46 2016 RT1

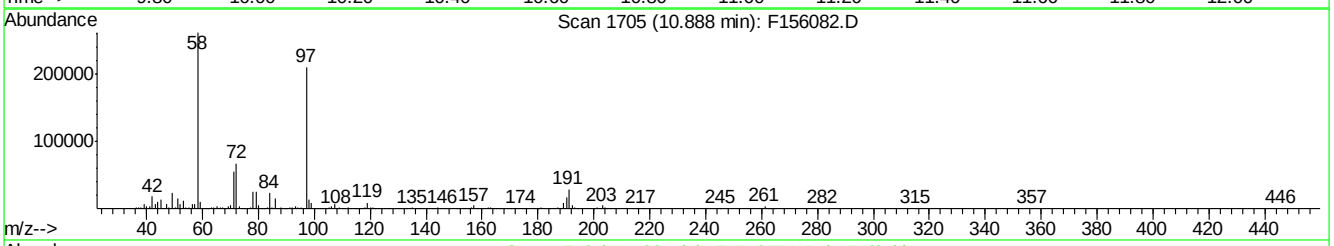
SGS ACCUTEST JC19214

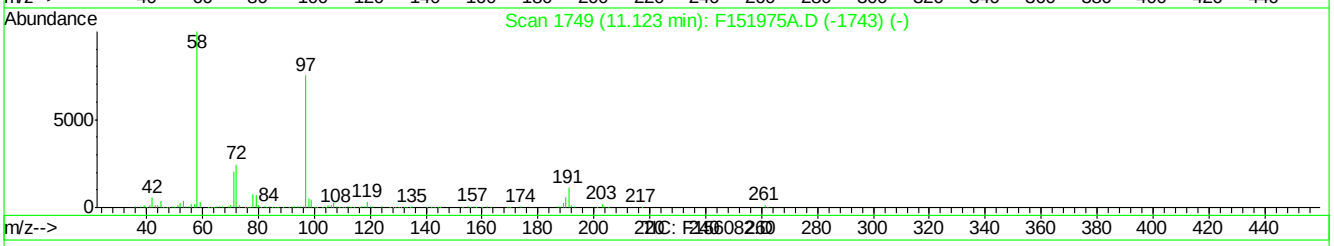
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.89min 52.66ppm

response 545222

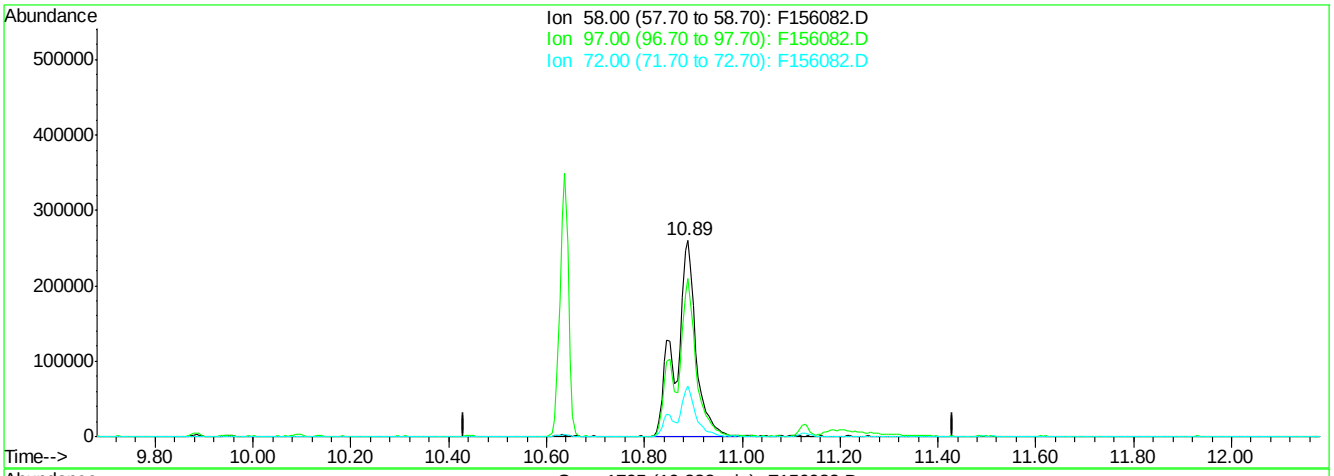
Ion	Exp%	Act%
58.00	100	100
97.00	75.70	79.43
72.00	20.60	25.66
0.00	0.00	0.00

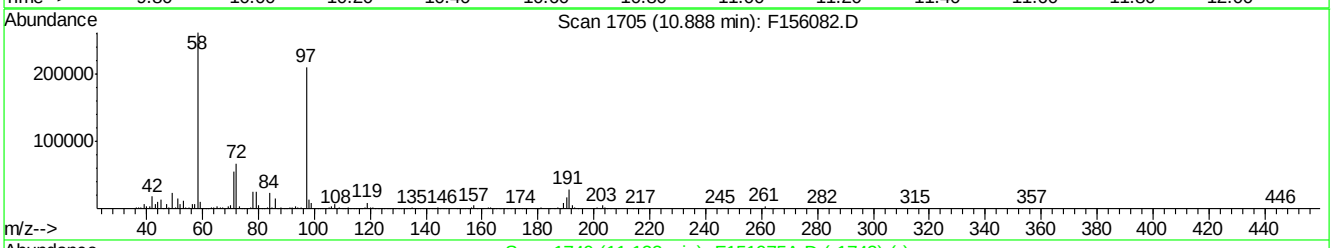
F156082.D MF6563AP9.M Fri Apr 08 15:54:10 2016 RT1

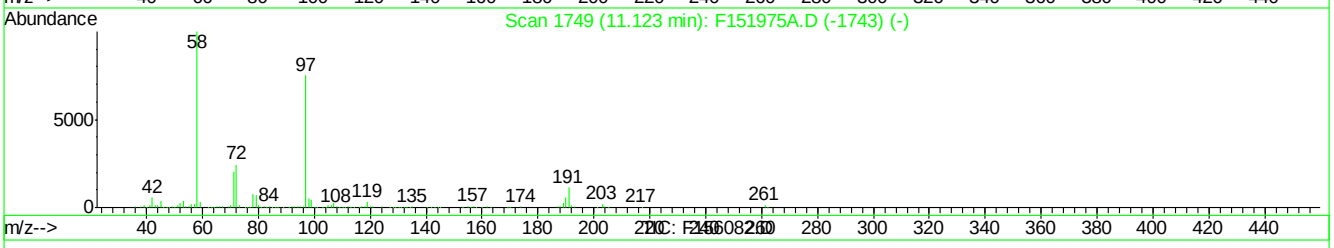
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156082.D Vial: 4
Acq On : 5 Apr 2016 3:11 pm Operator: linseyk
Sample : icc6566-50 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:54 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:44:28 2016
Response via : Multiple Level Calibration







(145) Methapyriline (t)

10.89min 71.25ppm m

response 737702

Ion	Exp%	Act%
58.00	100	100
97.00	75.70	80.33
72.00	20.60	25.86
0.00	0.00	0.00

F156082.D MF6563AP9.M Fri Apr 08 15:54:20 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:55:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	568961	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2232540	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1348053	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2171461	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1925645	40.00	ppm	0.00
92) Perylene-d12	17.59	264	1801257	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	568961	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2232540	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1348053	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2171461	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1925645	40.00	ppm	0.00
155) Perylene-d12A	17.59	264	1801257	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	568961	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2232540	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1348053	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2171461	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1925645	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	568961	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2232540	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1925645	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2232540	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1925645	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	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
103) 2-Picoline	3.41	93	541524	24.26	ppm	98
104) Pentachloroethane	4.67	167	182110	25.53	ppm	96
105) Methyl methanesulfonate	3.75	80	281847	25.36	ppm	97
106) N-Nitrosodiethylamine	4.06	102	233961	24.44	ppm	93
107) N-Nitrosomethylethylamine	3.51	42	203636	22.48	ppm	96
108) Ethyl methanesulfonate	4.29	79	374973	23.89	ppm	91
109) N-Nitrosopyrrolidine	5.15	41	169022	21.59	ppm	96
110) N-Nitrosomorpholine	5.18	56	258926	25.08	ppm	95
111) o-Toluidine	5.19	106	753822	28.50	ppm	96
113) O,O,O-Triethyl phosphoroth	5.59	198	212721	27.88	ppm	89
114) N-Nitrosopiperidine	5.40	42	277772	23.86	ppm	94
115) A,A-Dimethylphenethylamine	5.68	58	1149366m	23.98	ppm	

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:55:08 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116) Hexachloropropene	5.88	213	256680	26.30	ppm		98
117) p-Phenylenediamine	6.10	108	351007m	44.31	ppm		
118) N-Nitrosodi-n-butylamine	6.09	84	325241	20.82	ppm		96
119) Safrole	6.26	162	357256	27.06	ppm		97
120) Isosafrole	6.68	162	282692	59.20	ppm		97
122) Thionazin	7.84	143	121791	24.82	ppm		93
123) Tetraethyl dithiopyrophosp	8.25	322	108336	25.61	ppm		100
124) Phorate	8.44	75	687993	25.03	ppm		100
125) Phenacetin	8.45	108	531299	24.10	ppm		97
126) 1,4-Naphthoquinone	6.89	158	307000	38.49	ppm		90
127) m-Dinitrobenzene	7.02	168	142671	22.55	ppm		73
128) Pentachlorobenzene	7.44	250	328438	27.91	ppm		98
129) 1-Naphthylamine	7.57	143	777529	27.95	ppm		94
130) 2-Naphthylamine	7.66	143	964121	29.20	ppm		96
131) 5-Nitro-o-toluidine	7.89	152	288741	24.26	ppm		89
133) Disulfoton	9.25	88	575187	25.92	ppm		95
134) Dinoseb	9.23	211	185790	19.52	ppm		98
135) Dimethoate	8.68	87	418360	27.26	ppm		95
136) 4-Aminobiphenyl	8.93	169	959571	56.11	ppm		100
137) Methyl parathion	9.88	125	266829	26.78	ppm		91
138) Parathion	10.63	109	214173	25.32	ppm		96
139) Diphenylamine	8.03	169	1467318	28.36	ppm		98
140) Isodrin	11.12	193	153022	24.81	ppm		98
141) Diallate	8.55	86	79128	17.52	ppm		94
142) Pentachloronitrobenzene	8.94	295	84704	59.00	ppm		96
143) Pronamide	9.04	173	439697	26.42	ppm		93
144) 4-Nitroquinoline 1-oxide	10.63	190	532166	93.45	ppm		91
145) Methapyriline	10.85	58	468473m	44.35	ppm		
146) sym-Trinitrobenzene	8.37	213	92375	22.95	ppm	#	47
148) Aramite	12.53	185	100158	61.17	ppm		93
149) p-(Dimethylamine)azobenzen	12.62	120	464518	25.14	ppm		76
150) Kepone	13.35	272	445096	284.22	ppm		95
151) Famphur	13.31	218	2112138	381.46	ppm		93
152) 2-Acetylaminofluorene	13.90	181	587692	23.65	ppm		99
153) 3,3'-Dimethylbenzidine	13.37	212	456800	111.88	ppm		98
154) Chlorobenzilate	12.76	251	361828	25.50	ppm		99
156) 4,4-Methylene-bis-(2-chlor	14.58	266	124994	28.95	ppm	#	80
157) 3-Methylcholanthrene	18.19	268	590649	24.92	ppm		96
158) Hexachlorophene	17.31	196	235342	62.24	ppm		100

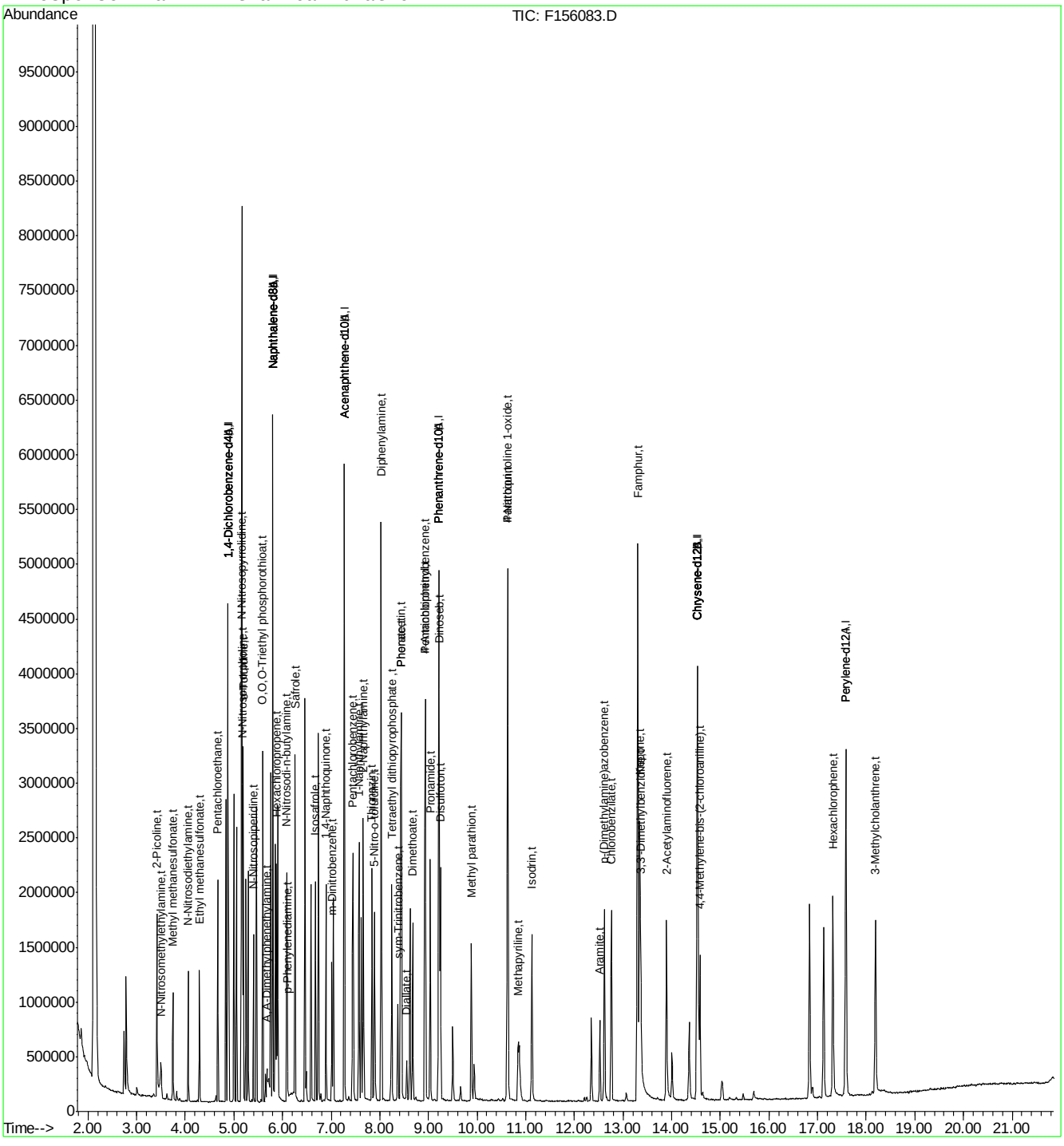
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:57 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156083.D MF6563AP9.M Fri Apr 08 17:17:30 2016 RT1 Page 3

Manual Integration Approval Summary

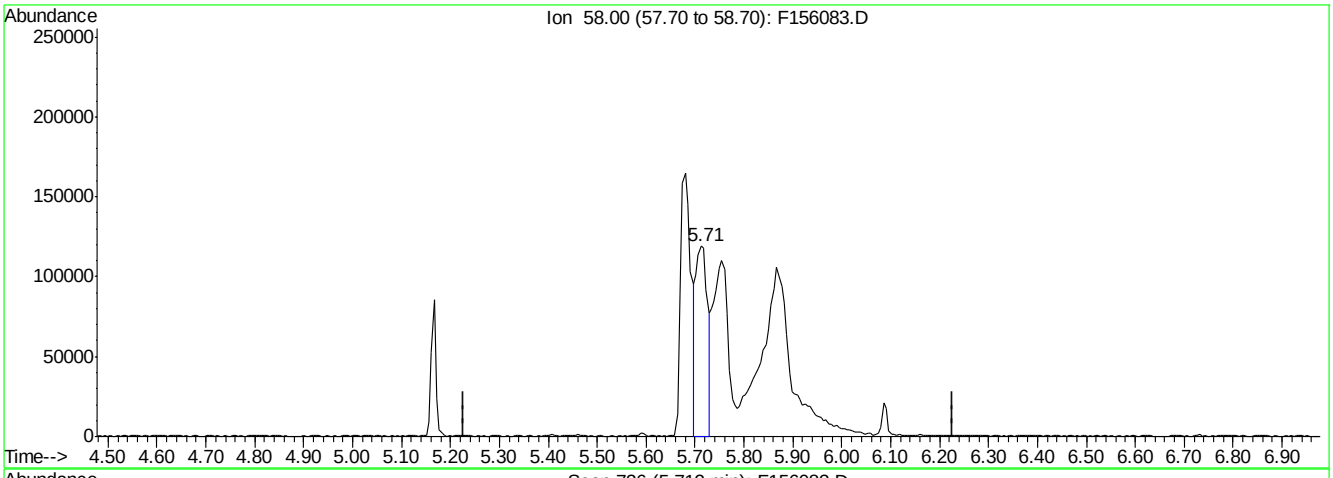
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D	
Lab FileID:	F156083.D	**Analyst approved:**	04/08/16 17:21	Kristi Schollenberger
Injection Time:	04/05/16 15:40	**Supervisor approved:**	04/13/16 13:20	Nina Pandya

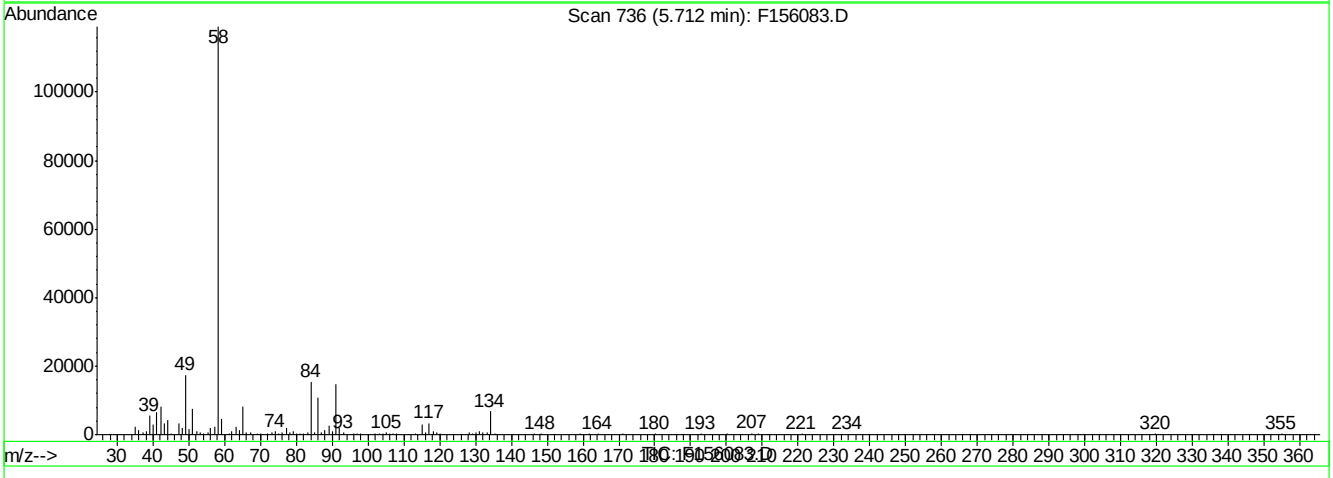
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.68	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak
Methapyrilene	91-80-5		10.85	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:55 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.71min 4.14ppm

response 198424

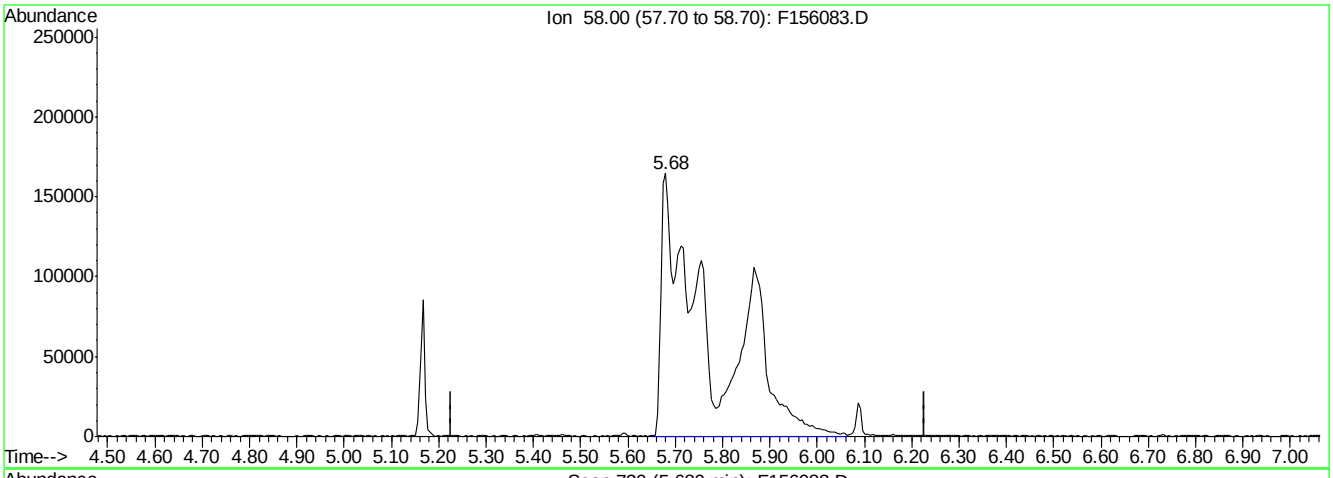
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

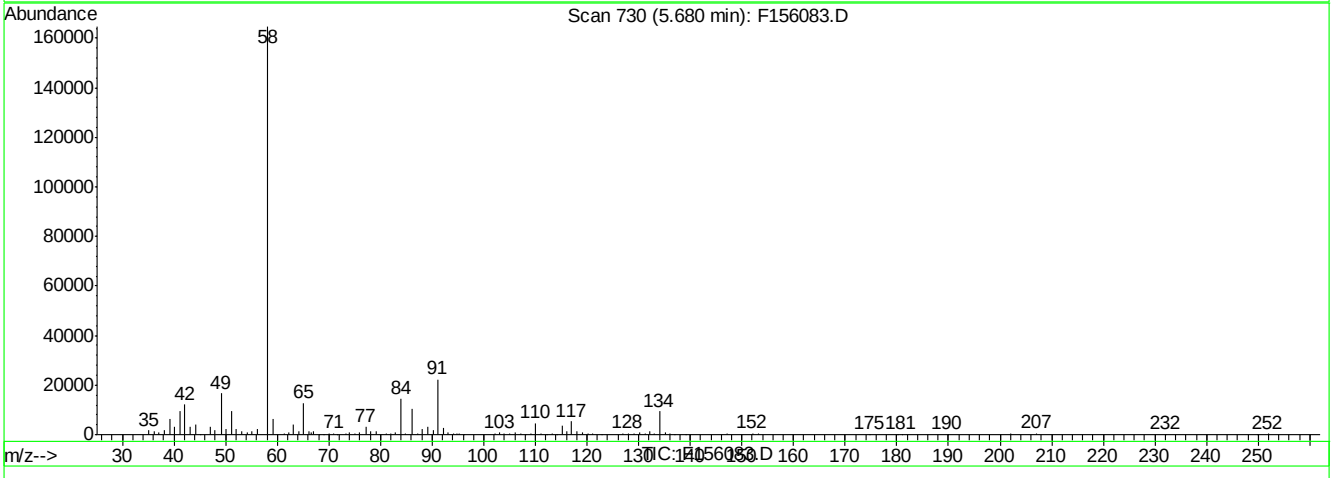
F156083.D MF6563AP9.M Fri Apr 08 15:55:54 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.68min 23.98ppm m

response 1149366

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

F156083.D MF6563AP9.M Fri Apr 08 15:56:12 2016 RT1

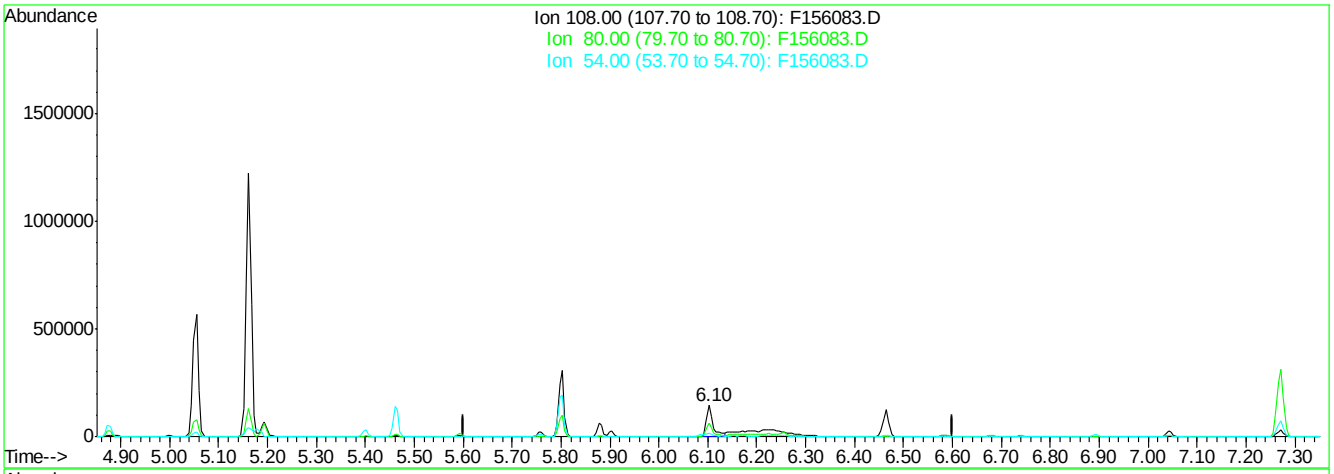
7.6.41.3

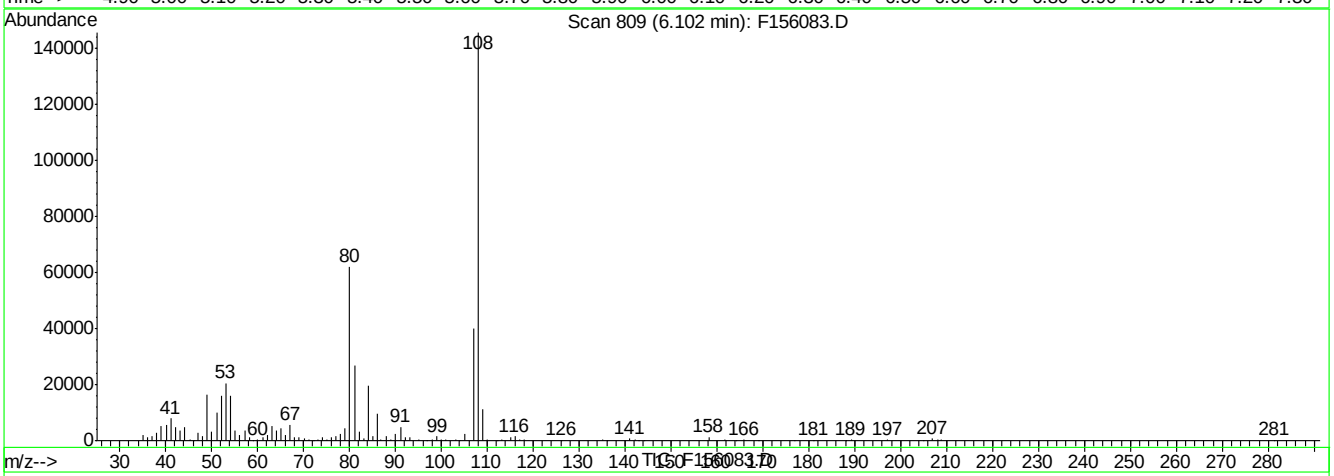
7

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(117) p-Phenylenediamine (t)

6.10min 17.43ppm

response 138045

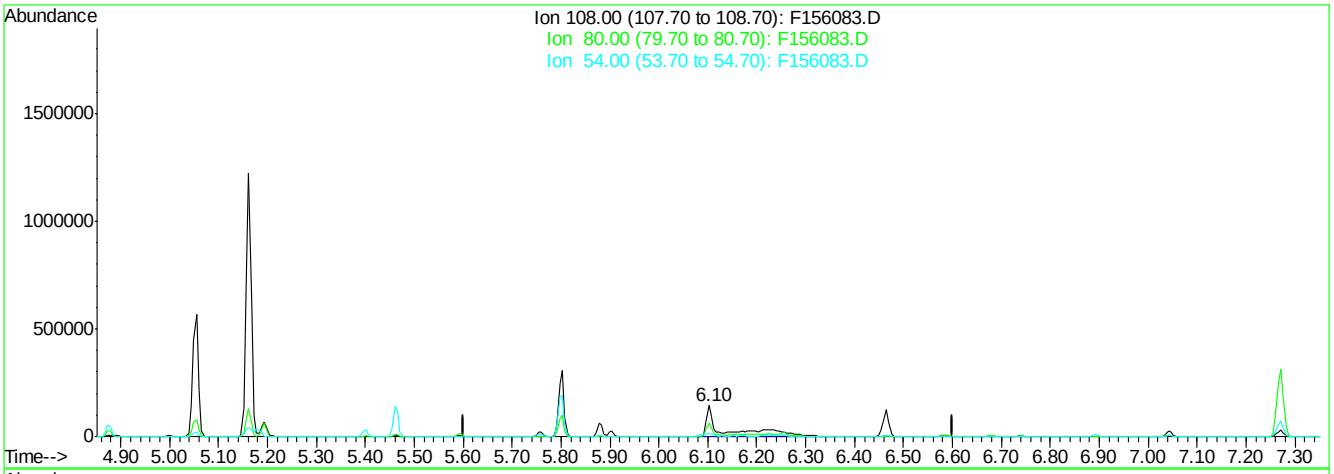
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.23
54.00	13.10	10.89
0.00	0.00	0.00

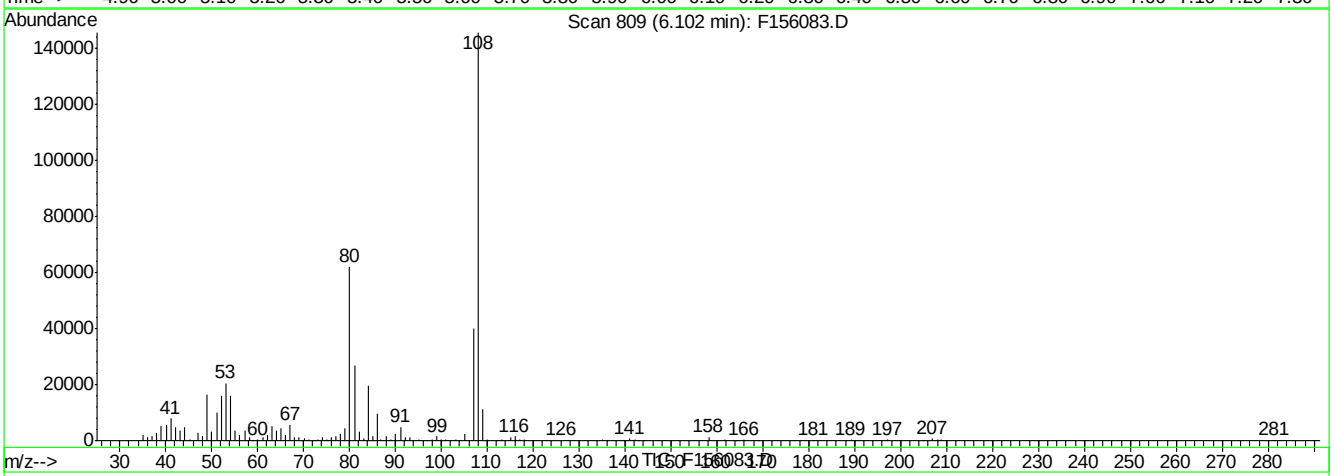
F156083.D MF6563AP9.M Fri Apr 08 15:56:16 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(117) p-Phenylenediamine (t)

6.10min 44.31ppm m

response 351007

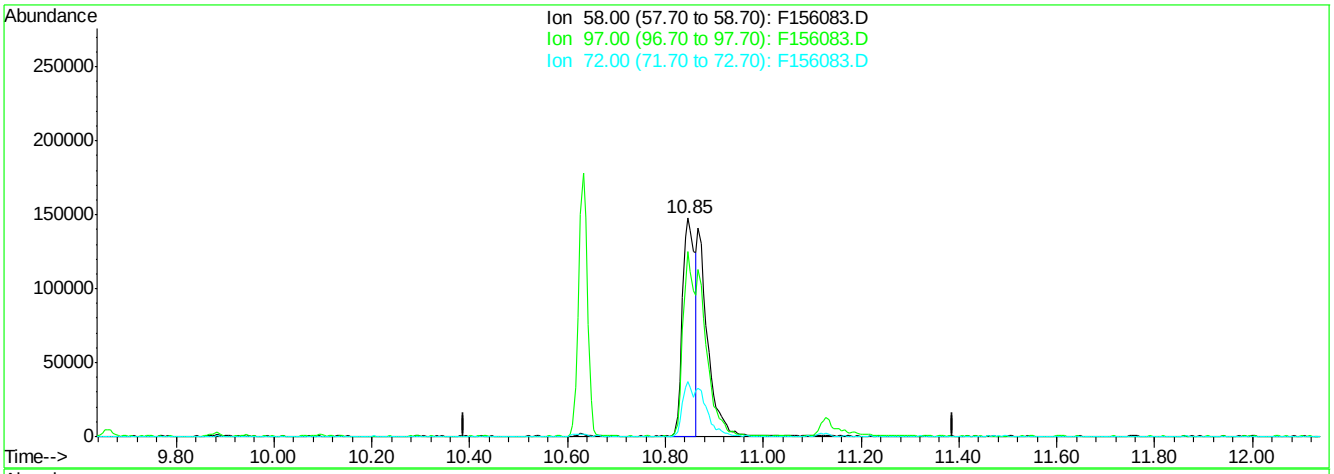
Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.56
54.00	13.10	11.01
0.00	0.00	0.00

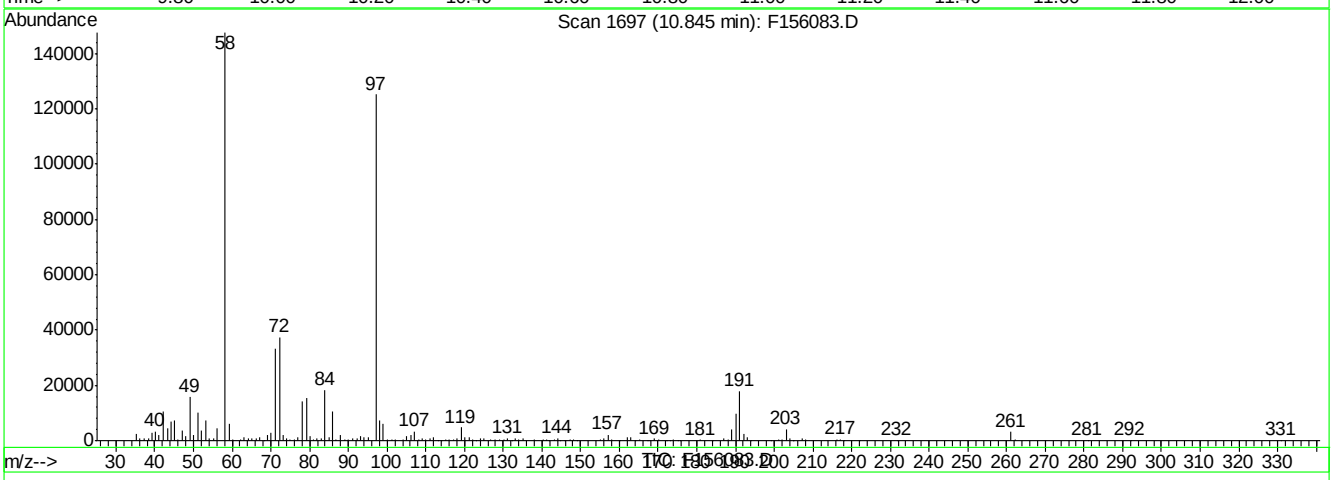
F156083.D MF6563AP9.M Fri Apr 08 15:56:27 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(145) Methapyriline (t)

10.85min 24.73ppm

response 261277

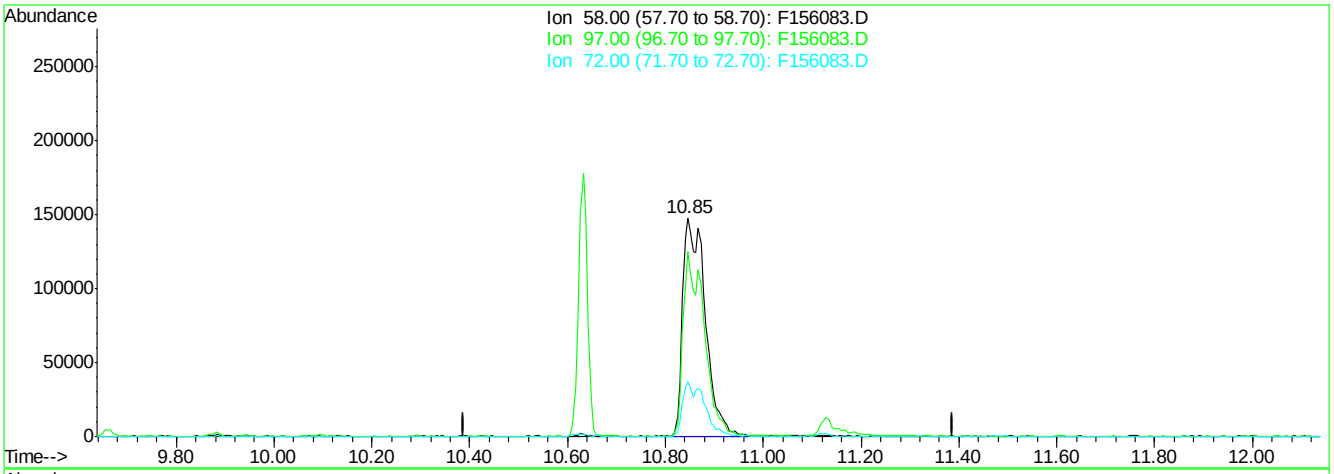
Ion	Exp%	Act%
58.00	100	100
97.00	75.70	90.53
72.00	20.60	25.48
0.00	0.00	0.00

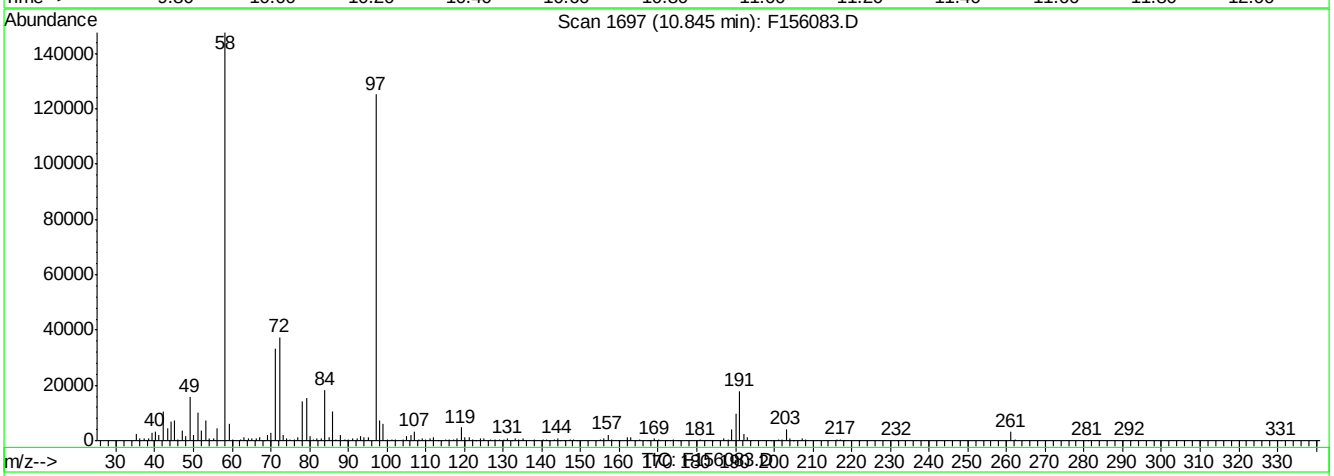
F156083.D MF6563AP9.M Fri Apr 08 15:56:45 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156083.D Vial: 5
Acq On : 5 Apr 2016 3:40 pm Operator: linseyk
Sample : ic6566-25 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:56 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(145) Methapyriline (t)

10.85min 44.35ppm m

response 468473

Ion	Exp%	Act%
58.00	100	100
97.00	75.70	84.87
72.00	20.60	25.31
0.00	0.00	0.00

F156083.D MF6563AP9.M Fri Apr 08 15:56:56 2016 RT1

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:57:27 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	560530	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2195384	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1301755	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2112789	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1879787	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1736750	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	560530	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2195384	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1301755	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2112789	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1879787	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1736750	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	560530	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2195384	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1301755	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2112789	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1879787	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	560530	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2195384	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1879787	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2195384	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1879787	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	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
103) 2-Picoline	3.41	93	235813	10.73	ppm	97
104) Pentachloroethane	4.67	167	79129	11.26	ppm	99
105) Methyl methanesulfonate	3.75	80	114554	10.46	ppm	97
106) N-Nitrosodiethylamine	4.06	102	99281	10.53	ppm	93
107) N-Nitrosomethylethylamine	3.51	42	89431	10.02	ppm	98
108) Ethyl methanesulfonate	4.29	79	159317	10.30	ppm	91
109) N-Nitrosopyrrolidine	5.15	41	80383	10.42	ppm	90
110) N-Nitrosomorpholine	5.18	56	109755	10.79	ppm	92
111) o-Toluidine	5.19	106	319850	12.27	ppm	98
113) O,O,O-Triethyl phosphoroth	5.59	198	90840	12.11	ppm	88
114) N-Nitrosopiperidine	5.40	42	115664	10.10	ppm	90
115) A,A-Dimethylphenethylamine	5.84	58	456477m	9.68	ppm	

(#) = qualifier out of range (m) = manual integration
F156084.D MF6563AP9.M Fri Apr 08 17:17:36 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 15:57:27 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116) Hexachloropropene	5.88	213	107544	11.20	ppm		97
117) p-Phenylenediamine	6.10	108	114887m	14.75	ppm		
118) N-Nitrosodi-n-butylamine	6.09	84	143598	9.35	ppm		97
119) Safrole	6.26	162	149773	11.54	ppm		97
120) Isosafrole	6.68	162	46968	10.00	ppm		100
122) Thionazin	7.84	143	50612	10.68	ppm		99
123) Tetraethyl dithiopyrophosp	8.25	322	47738	11.69	ppm		100
124) Phorate	8.44	75	293276	11.05	ppm		100
125) Phenacetin	8.44	108	214122	10.06	ppm		96
126) 1,4-Naphthoquinone	6.89	158	96063	12.47	ppm		93
127) m-Dinitrobenzene	7.01	168	58187	9.52	ppm		91
128) Pentachlorobenzene	7.44	250	140896	12.40	ppm		97
129) 1-Naphthylamine	7.57	143	293995	10.94	ppm		95
130) 2-Naphthylamine	7.66	143	359349	11.27	ppm		95
131) 5-Nitro-o-toluidine	7.89	152	121694	10.59	ppm		90
133) Disulfoton	9.25	88	228425	10.58	ppm		88
134) Dinoseb	9.23	211	63704	6.88	ppm		86
135) Dimethoate	8.67	87	176718	11.84	ppm		92
136) 4-Aminobiphenyl	8.92	169	345267	20.75	ppm		99
137) Methyl parathion	9.88	125	109143	11.26	ppm		99
138) Parathion	10.63	109	92072	11.19	ppm		96
139) Diphenylamine	8.03	169	637568	12.67	ppm		99
140) Isodrin	11.13	193	65148	10.86	ppm		93
141) Diallate	8.55	86	35963	8.18	ppm		95
142) Pentachloronitrobenzene	8.94	295	35131	25.15	ppm		96
143) Pronamide	9.03	173	161776	9.99	ppm		93
144) 4-Nitroquinoline 1-oxide	10.63	190	207073	37.37	ppm		90
145) Methapyriline	10.85	58	204252	19.87	ppm		97
146) sym-Trinitrobenzene	8.37	213	25042	6.40	ppm	#	21
148) Aramite	12.53	185	28583	17.88	ppm		95
149) p-(Dimethylamine)azobenzen	12.61	120	190817	10.58	ppm		68
150) Kepone	13.35	272	220446	144.20	ppm		96
151) Famphur	13.30	218	1202743	222.52	ppm		94
152) 2-Acetylaminofluorene	13.89	181	217875	8.98	ppm		98
153) 3,3'-Dimethylbenzidine	13.36	212	243573	61.11	ppm		98
154) Chlorobenzilate	12.76	251	150203	10.84	ppm		97
156) 4,4-Methylene-bis-(2-chlor	14.58	266	59589	14.31	ppm		94
157) 3-Methylcholanthrene	18.19	268	240679	10.53	ppm		96
158) Hexachlorophene	17.31	196	72352	19.84	ppm		95

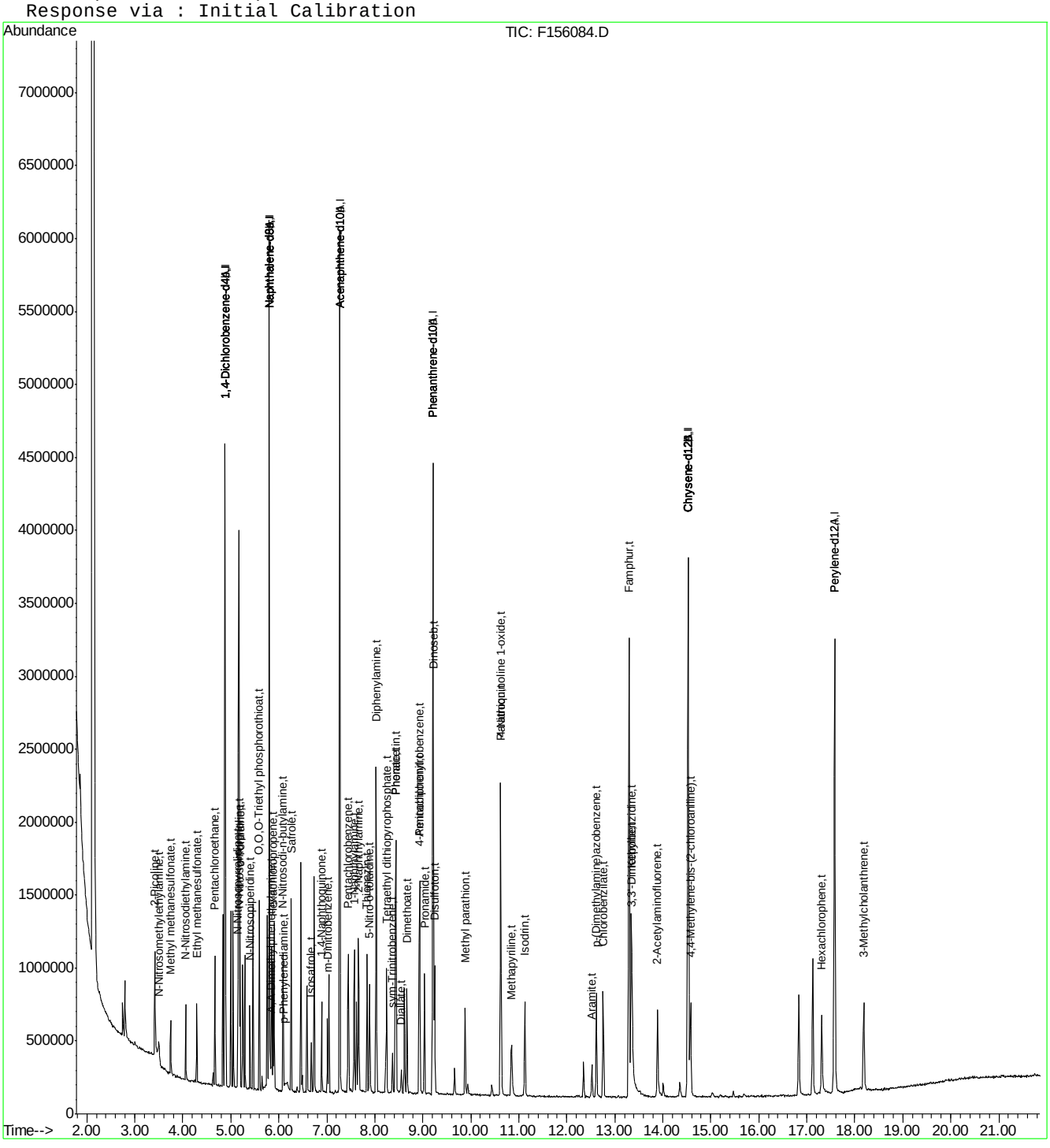
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:59 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Manual Integration Approval Summary

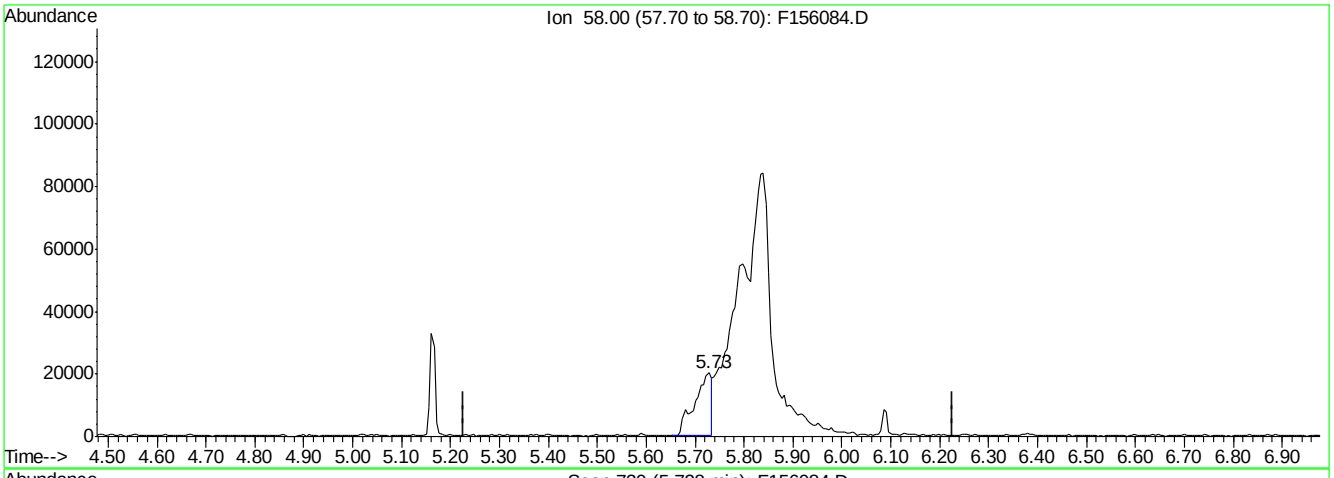
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156084.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 16:08	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

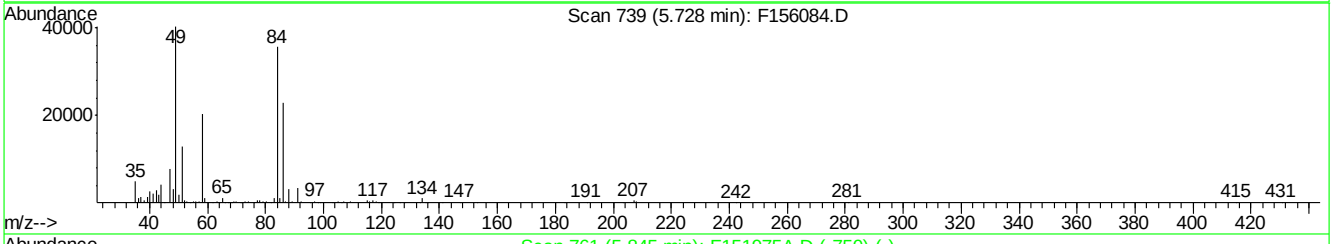
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.84	Split peak
p-Phenylenediamine	106-50-3		6.10	Split peak

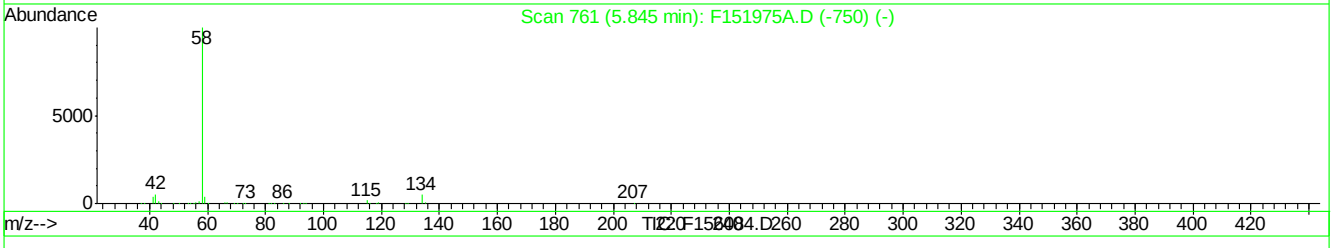
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.73min 1.03ppm

response 48498

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

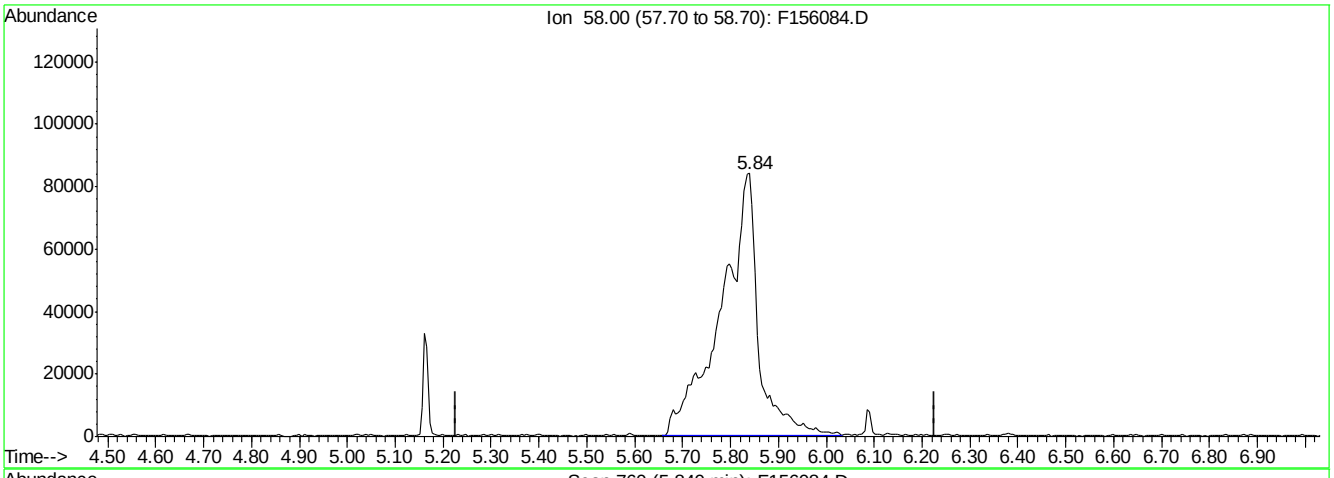
F156084.D MF6563AP9.M Fri Apr 08 15:58:19 2016 RT1

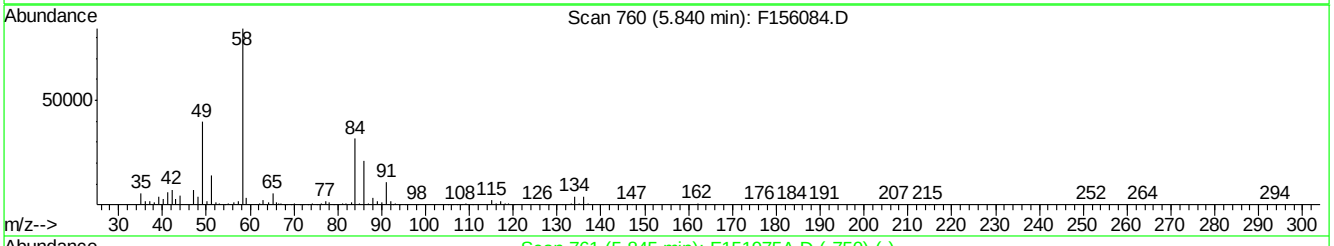
SGS ACCUTEST JC19214

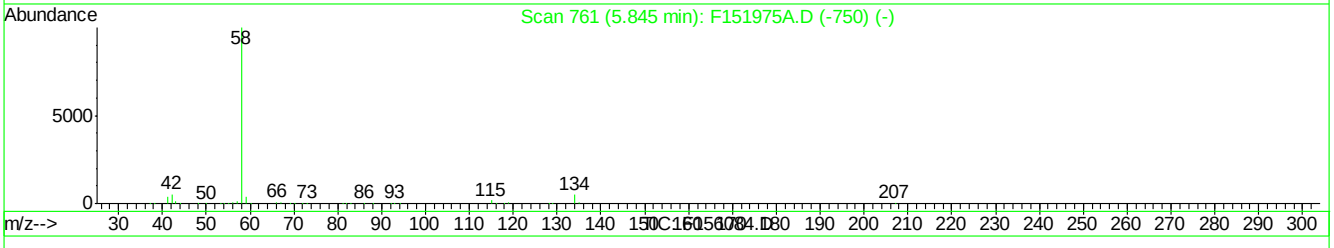
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(115) A,A-Dimethylphenethylamine (t)

5.84min 9.68ppm m

response 456477

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

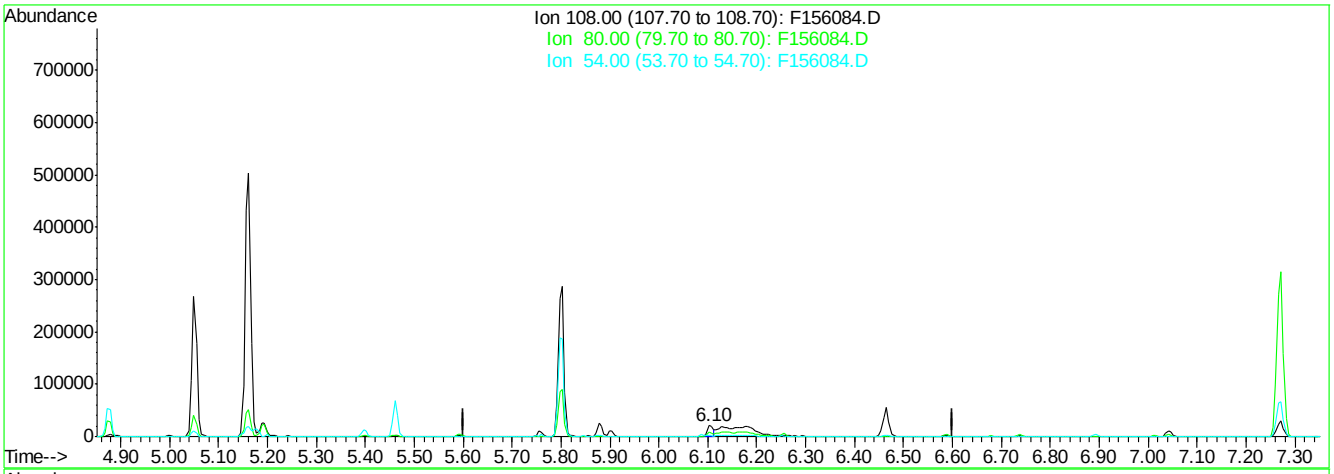
F156084.D MF6563AP9.M Fri Apr 08 15:58:34 2016 RT1

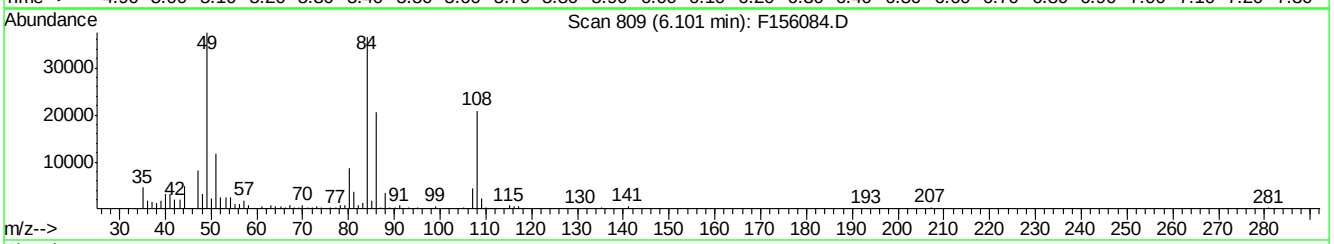
SGS ACCUTEST JC19214

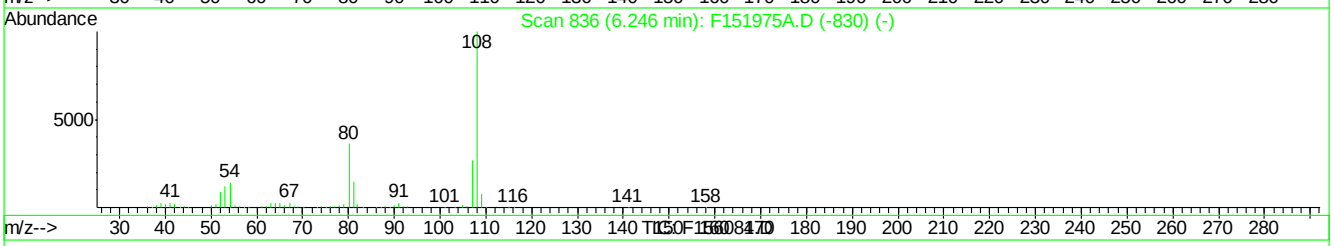
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.10min 2.33ppm

response 18176

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	41.77
54.00	13.10	10.56
0.00	0.00	0.00

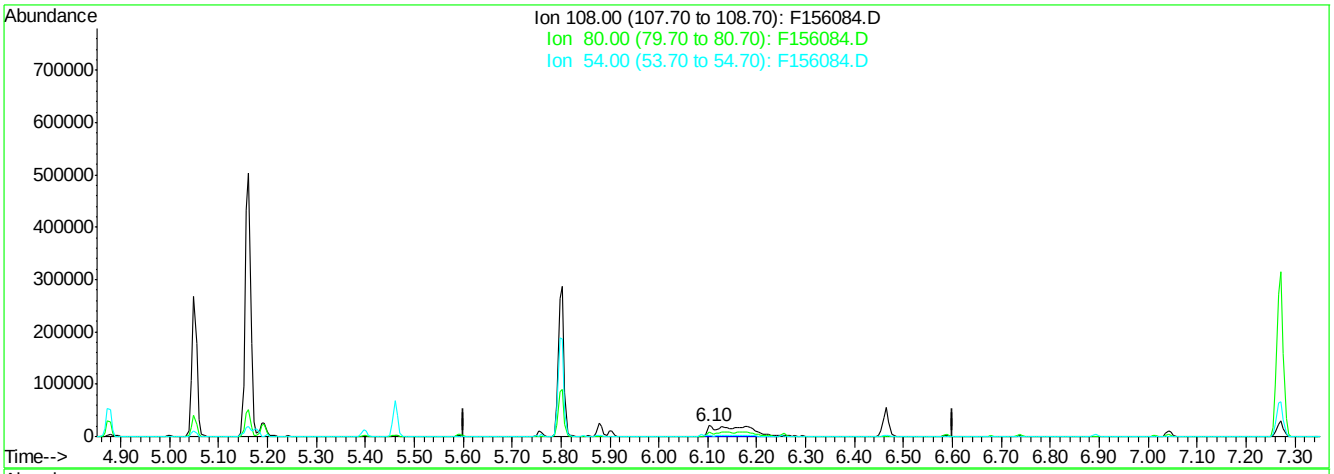
F156084.D MF6563AP9.M Fri Apr 08 15:58:38 2016 RT1

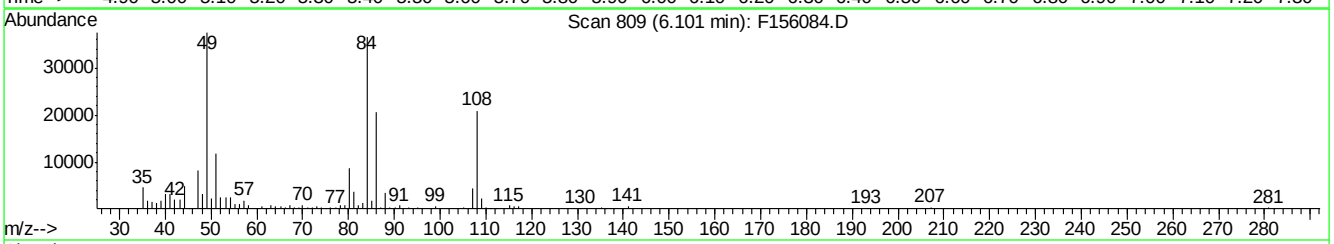
SGS ACCUTEST JC19214

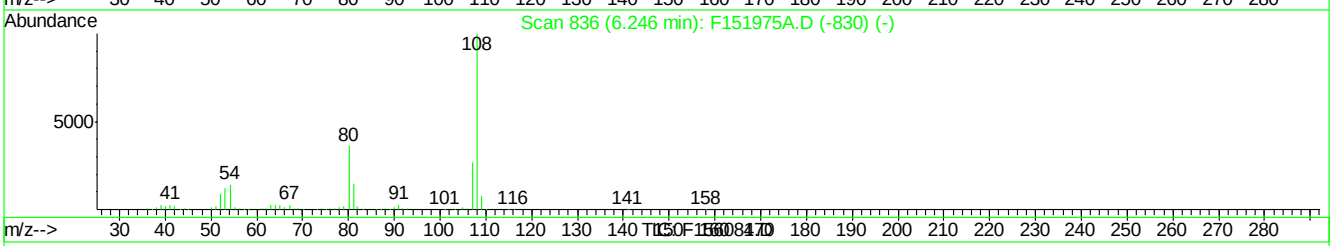
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156084.D Vial: 6
Acq On : 5 Apr 2016 4:08 pm Operator: linseyk
Sample : ic6566-10 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 15:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration







(117) p-Phenylenediamine (t)

6.10min 14.75ppm m

response 114887

Ion	Exp%	Act%
108.00	100	100
80.00	38.70	42.20
54.00	13.10	12.24
0.00	0.00	0.00

F156084.D MF6563AP9.M Fri Apr 08 15:58:56 2016 RT1

SGS ACCUTEST JC19214

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:00:01 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	571668	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2221839	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1343029	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2158358	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1931239	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1784391	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	571668	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2221839	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1343029	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2158358	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1931239	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1784391	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	571668	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2221839	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1343029	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2158358	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1931239	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	571668	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2221839	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1931239	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2221839	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1931239	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	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
103) 2-Picoline	3.42	93	133939	5.97	ppm	98
104) Pentachloroethane	4.67	167	42916	5.99	ppm	89
105) Methyl methanesulfonate	3.75	80	64936	5.81	ppm	99
106) N-Nitrosodiethylamine	4.06	102	55186	5.74	ppm	92
107) N-Nitrosomethylethylamine	3.51	42	55594	6.11	ppm	92
108) Ethyl methanesulfonate	4.29	79	91503	5.80	ppm	94
109) N-Nitrosopyrrolidine	5.15	41	38138	4.85	ppm	87
110) N-Nitrosomorpholine	5.17	56	63247	6.10	ppm	93
111) o-Toluidine	5.19	106	184731	6.95	ppm	98
113) O,O,O-Triethyl phosphoroth	5.59	198	53109	6.99	ppm	79
114) N-Nitrosopiperidine	5.40	42	65718	5.67	ppm	89
115) A,A-Dimethylphenethylamine	5.80	58	246586m	5.17	ppm	

(#) = qualifier out of range (m) = manual integration
F156085.D MF6563AP9.M Fri Apr 08 17:17:42 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:00:01 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	59679	6.14	ppm		98
117)	p-Phenylenediamine	6.13	108	51948	6.59	ppm		93
118)	N-Nitrosodi-n-butylamine	6.09	84	84584	5.44	ppm		95
119)	Safrole	6.26	162	84948	6.47	ppm		98
120)	Isosafrole	6.68	162	28306	5.96	ppm		96
122)	Thionazin	7.84	143	31609	6.46	ppm		89
123)	Tetraethyl dithiopyrophosp	8.25	322	26187	6.21	ppm		100
124)	Phorate	8.44	75	164902	6.02	ppm		100
125)	Phenacetin	8.44	108	117030	5.33	ppm		95
126)	1,4-Naphthoquinone	6.89	158	47892	6.03	ppm		93
127)	m-Dinitrobenzene	7.02	168	29872	4.74	ppm		91
128)	Pentachlorobenzene	7.44	250	79528	6.78	ppm		96
129)	1-Naphthylamine	7.57	143	177347	6.40	ppm		96
130)	2-Naphthylamine	7.66	143	190107	5.78	ppm		95
131)	5-Nitro-o-toluidine	7.89	152	67660	5.71	ppm		82
133)	Disulfoton	9.24	88	127618	5.78	ppm		90
134)	Dinoseb	9.22	211	30436	3.22	ppm		93
135)	Dimethoate	8.67	87	96041	6.30	ppm		93
136)	4-Aminobiphenyl	8.92	169	207941	12.23	ppm		98
137)	Methyl parathion	9.88	125	56120	5.67	ppm		93
138)	Parathion	10.63	109	49132	5.84	ppm		90
139)	Diphenylamine	8.03	169	362380	7.05	ppm		99
140)	Isodrin	11.13	193	38591	6.29	ppm		94
141)	Diallate	8.55	86	24670	5.50	ppm		88
142)	Pentachloronitrobenzene	8.93	295	19670	13.78	ppm		99
143)	Pronamide	9.03	173	89783	5.43	ppm		95
144)	4-Nitroquinoline 1-oxide	10.62	190	93326	16.49	ppm		87
145)	Methapyriline	10.84	58	113650	10.82	ppm		97
146)	sym-Trinitrobenzene	8.37	213	11944	2.99	ppm	#	27
148)	Aramite	12.52	185	14306	8.71	ppm		94
149)	p-(Dimethylamine)azobenzen	12.61	120	101485	5.48	ppm		71
150)	Kepone	13.35	272	136513	86.92	ppm		93
151)	Famphur	13.30	218	735694	132.48	ppm		96
152)	2-Acetylaminofluorene	13.89	181	111482	4.47	ppm		95
153)	3,3'-Dimethylbenzidine	13.36	212	155587	38.00	ppm		96
154)	Chlorobenzilate	12.76	251	78728	5.53	ppm		97
156)	4,4-Methylene-bis-(2-chlor	14.57	266	34137	7.98	ppm		81
157)	3-Methylcholanthrene	18.19	268	128363	5.47	ppm		96
158)	Hexachlorophene	17.31	196	23575	6.29	ppm		99

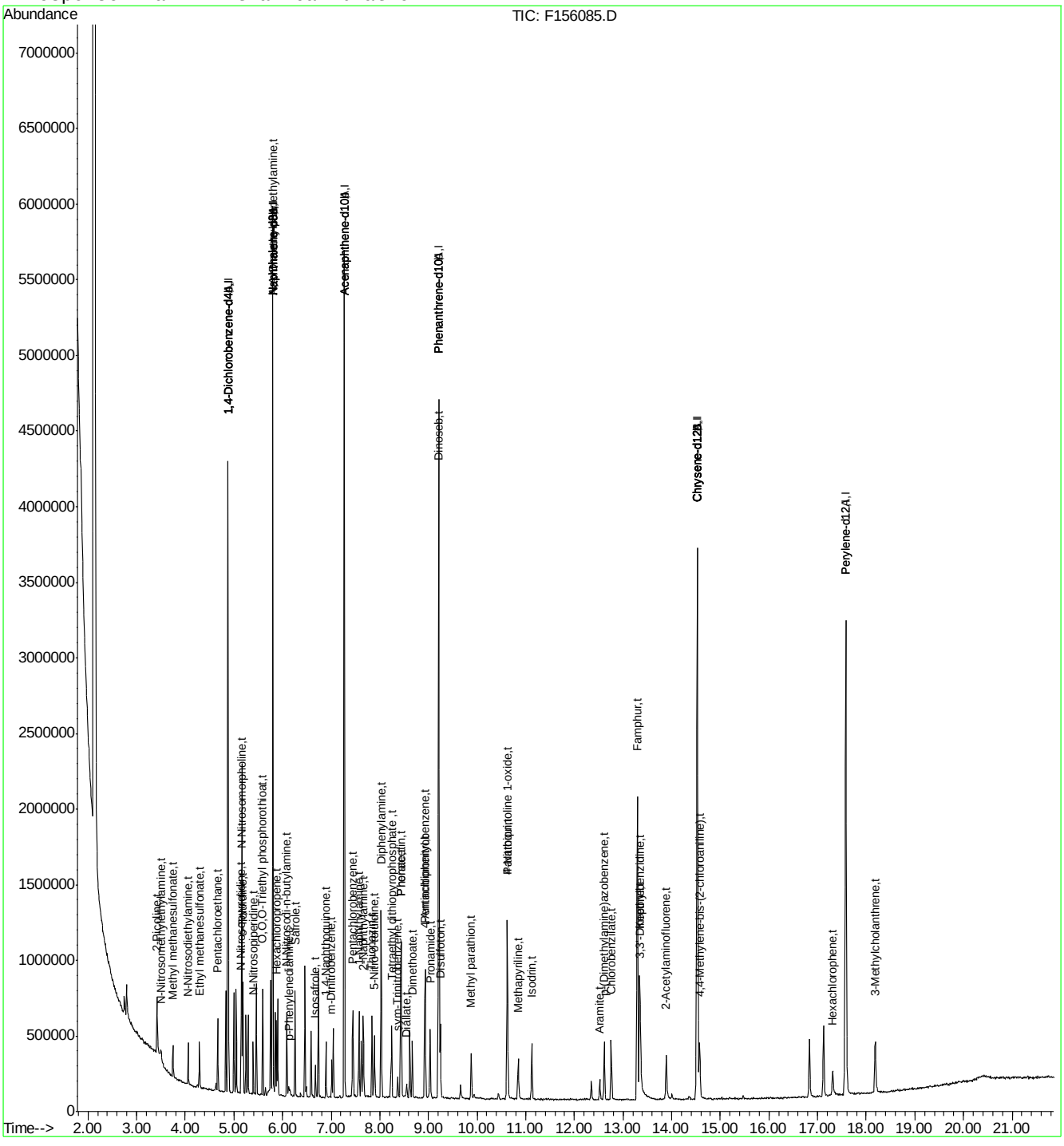
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:01 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156085.D MF6563AP9.M Fri Apr 08 17:17:42 2016 RT1 Page 3

Manual Integration Approval Summary

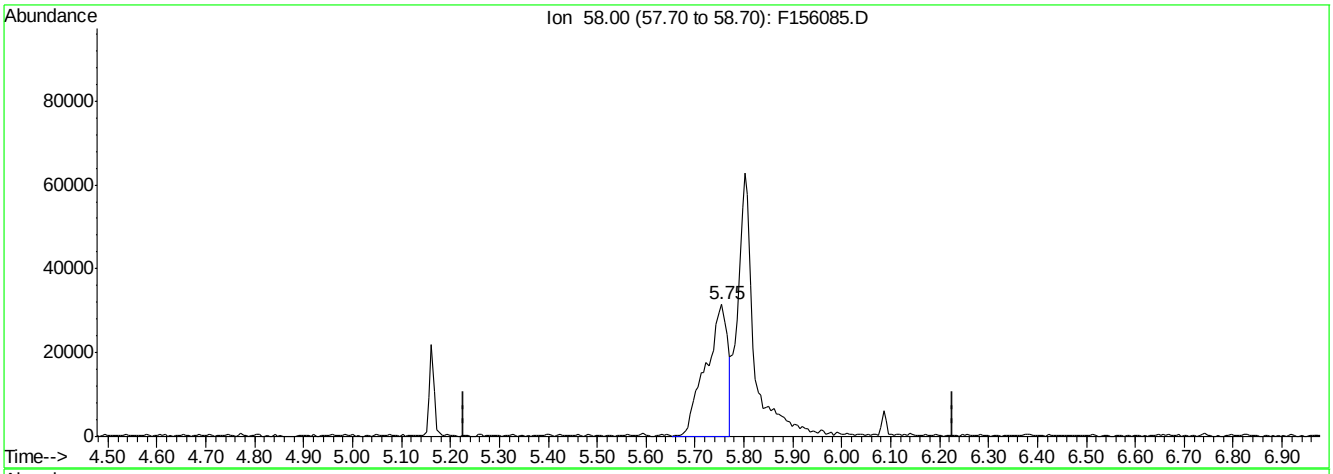
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156085.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 16:37	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

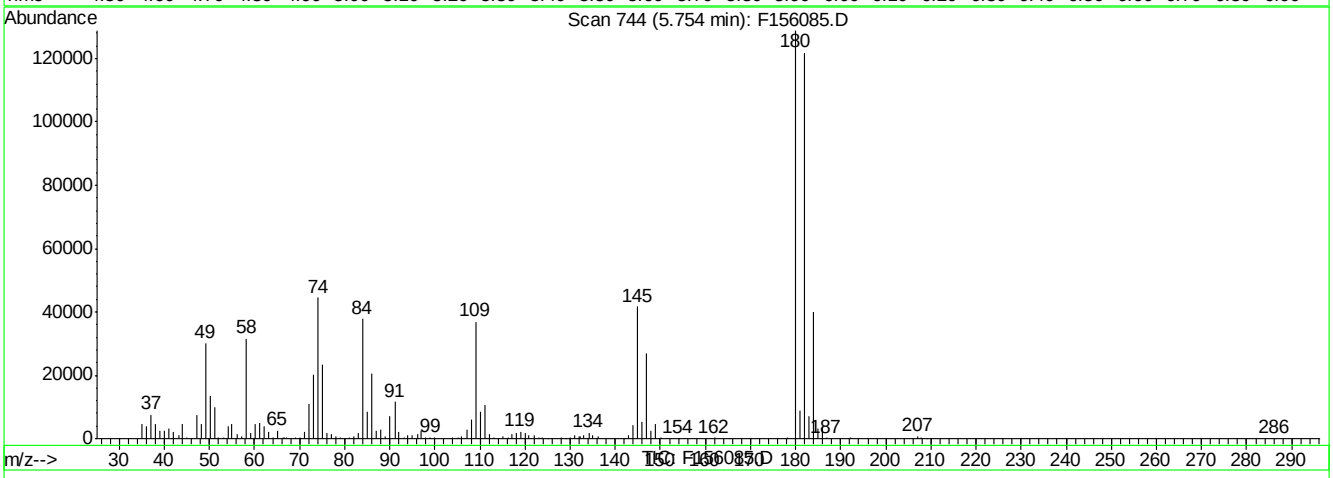
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.80	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:00 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.75min 2.04ppm

response 97322

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

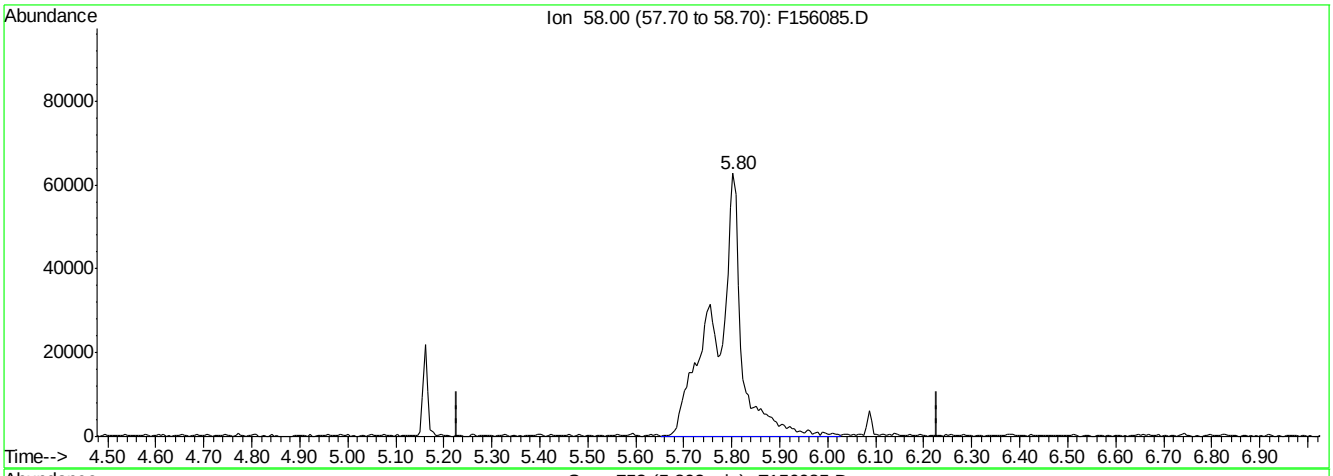
F156085.D MF6563AP9.M Fri Apr 08 16:00:54 2016 RT1

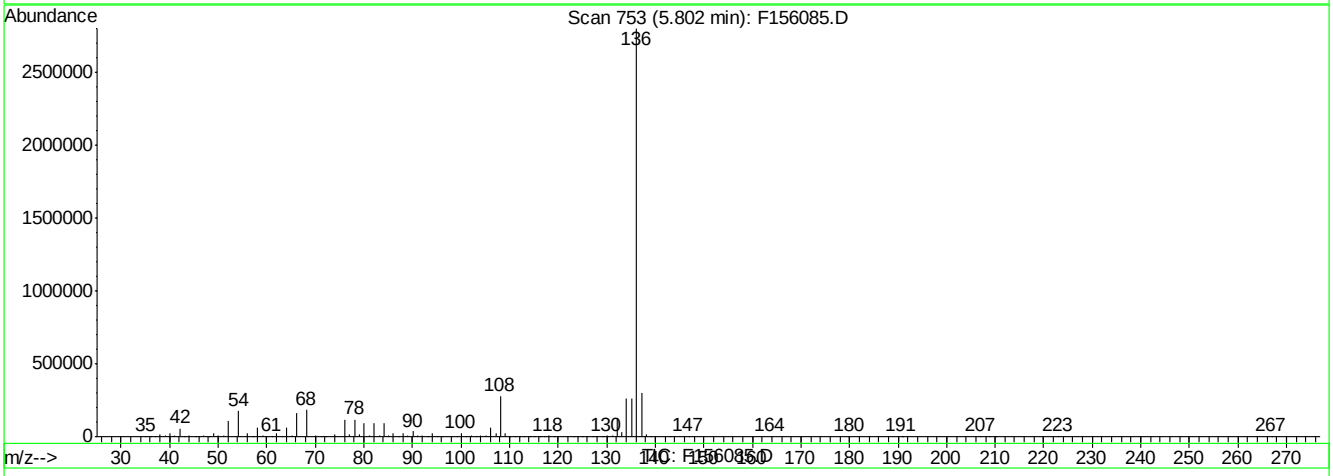
SGS ACCUTEST JC19214

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156085.D Vial: 7
Acq On : 5 Apr 2016 4:37 pm Operator: linseyk
Sample : ic6566-5 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:01 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.80min 5.17ppm m

response 246586

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

F156085.D MF6563AP9.M Fri Apr 08 16:01:11 2016 RT1

F156086.D

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:02:15 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	559206	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2192467	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1308474	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2125407	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1896741	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1756547	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	559206	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2192467	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1308474	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2125407	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1896741	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1756547	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	559206	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2192467	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1308474	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2125407	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1896741	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	559206	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2192467	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1896741	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2192467	40.00	ppm	0.00
180) Chrysene-d12B	14.53	240	1896741	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	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
103) 2-Picoline	3.43	93	50047	2.28	ppm	97
104) Pentachloroethane	4.67	167	16780	2.39	ppm	97
105) Methyl methanesulfonate	3.75	80	25038	2.29	ppm	94
106) N-Nitrosodiethylamine	4.06	102	22309	2.37	ppm	90
107) N-Nitrosomethylethylamine	3.51	42	17221	1.93	ppm	89
108) Ethyl methanesulfonate	4.29	79	36336	2.36	ppm	90
109) N-Nitrosopyrrolidine	5.15	41	13913	1.81	ppm	93
110) N-Nitrosomorpholine	5.17	56	24506	2.41	ppm	97
111) o-Toluidine	5.19	106	72094	2.77	ppm	100
113) O,O,O-Triethyl phosphoroth	5.59	198	20694	2.76	ppm	84
114) N-Nitrosopiperidine	5.40	42	24782	2.17	ppm	92
115) A,A-Dimethylphenethylamine	5.77	58	85216m	1.81	ppm	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:02:15 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	22192	2.32	ppm		96
117)	p-Phenylenediamine	6.12	108	9100	1.17	ppm		81
118)	N-Nitrosodi-n-butylamine	6.09	84	28650	1.87	ppm		99
119)	Safrole	6.26	162	32661	2.52	ppm		96
120)	Isosafrole	6.68	162	11076	2.36	ppm		96
122)	Thionazin	7.84	143	11964	2.51	ppm		94
123)	Tetraethyl dithiopyrophosp	8.25	322	9878	2.41	ppm		100
124)	Phorate	8.44	75	62318	2.34	ppm		100
125)	Phenacetin	8.44	108	42212	1.97	ppm		94
126)	1,4-Naphthoquinone	6.89	158	16990	2.19	ppm		89
127)	m-Dinitrobenzene	7.02	168	9770	1.59	ppm		88
128)	Pentachlorobenzene	7.44	250	33083	2.90	ppm		96
129)	1-Naphthylamine	7.57	143	68125	2.52	ppm		94
130)	2-Naphthylamine	7.66	143	75877	2.37	ppm		99
131)	5-Nitro-o-toluidine	7.89	152	23393	2.02	ppm		85
133)	Disulfoton	9.24	88	49057	2.26	ppm		85
134)	Dinoseb	9.23	211	8231	0.88	ppm		97
135)	Dimethoate	8.67	87	34643	2.31	ppm		98
136)	4-Aminobiphenyl	8.92	169	86986	5.20	ppm		98
137)	Methyl parathion	9.88	125	17456	1.79	ppm		95
138)	Parathion	10.63	109	16307	1.97	ppm		93
139)	Diphenylamine	8.03	169	142092	2.81	ppm		98
140)	Isodrin	11.12	193	15511	2.57	ppm		94
141)	Diallate	8.55	86	9505	2.15	ppm		88
142)	Pentachloronitrobenzene	8.93	295	7034	5.01	ppm		89
143)	Pronamide	9.03	173	32581	2.00	ppm		95
144)	4-Nitroquinoline 1-oxide	10.62	190	20982	3.76	ppm	#	65
145)	Methapyriline	10.84	58	42021	4.06	ppm		94
146)	sym-Trinitrobenzene	8.37	213	3400	0.86	ppm	#	73
148)	Aramite	12.52	185	5362	3.32	ppm		84
149)	p-(Dimethylamine)azobenzen	12.61	120	32165	1.77	ppm		78
150)	Kepone	13.34	272	49911	32.36	ppm		98
151)	Famphur	13.29	218	285304	52.31	ppm		92
152)	2-Acetylaminofluorene	13.89	181	32816	1.34	ppm		93
153)	3,3'-Dimethylbenzidine	13.36	212	60331	15.00	ppm		98
154)	Chlorobenzilate	12.76	251	27193	1.95	ppm		96
156)	4,4-Methylene-bis-(2-chlor	14.57	266	12244	2.91	ppm	#	71
157)	3-Methylcholanthrene	18.18	268	44916	1.94	ppm		95
158)	Hexachlorophene	17.30	196	5485	1.49	ppm		79

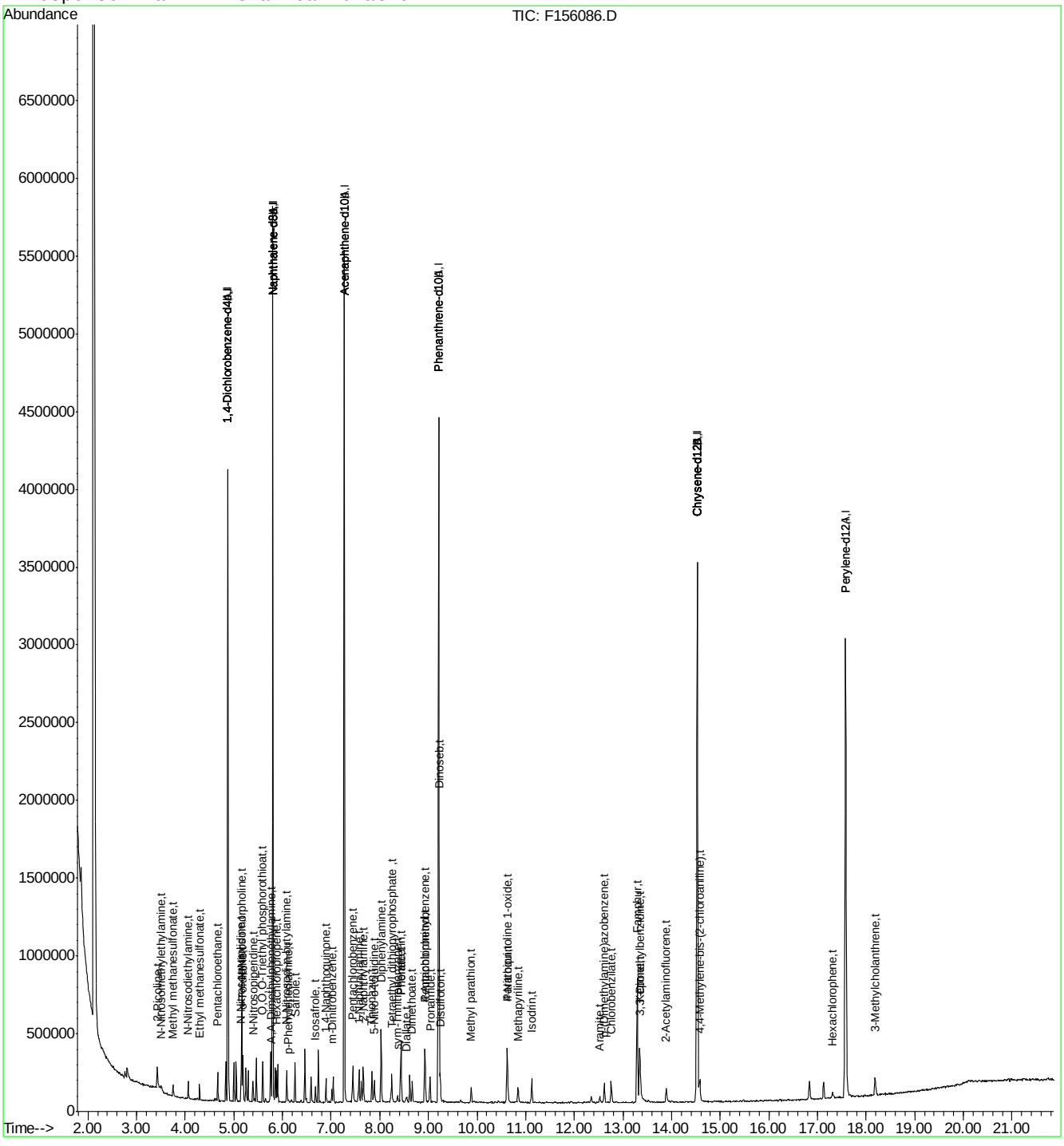
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:04 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

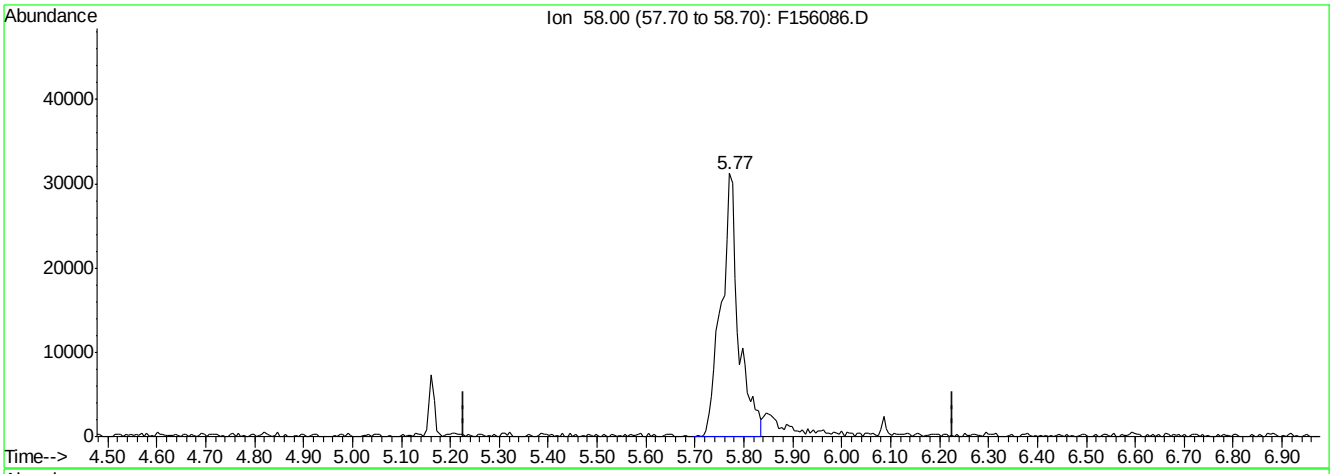
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156086.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 17:06	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

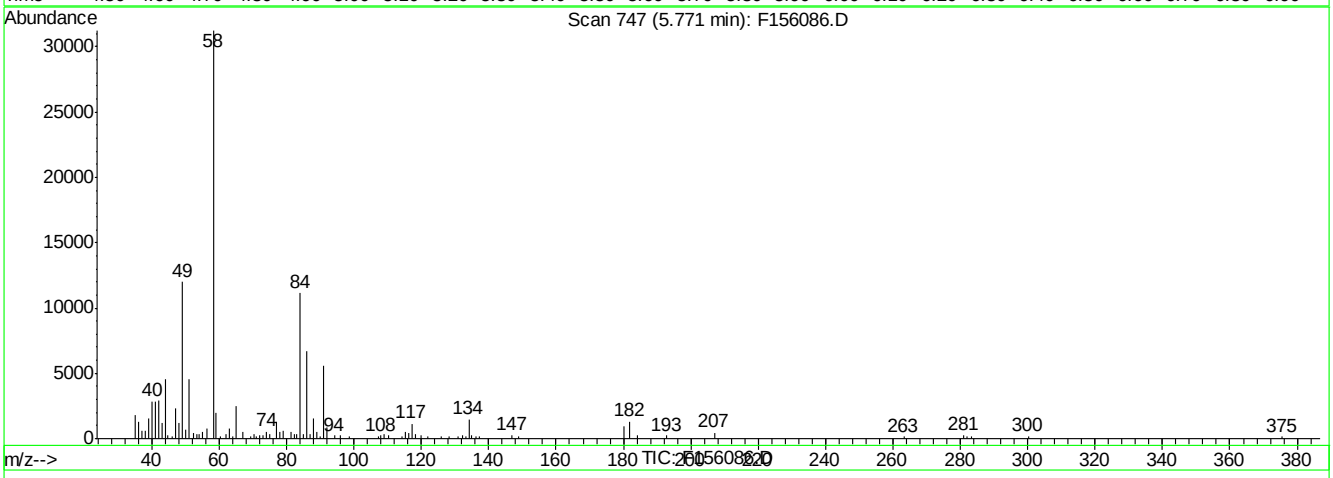
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.77	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:02 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.77min 1.65ppm

response 77631

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

F156086.D MF6563AP9.M Fri Apr 08 16:03:09 2016 RT1

7.6.44.2

7

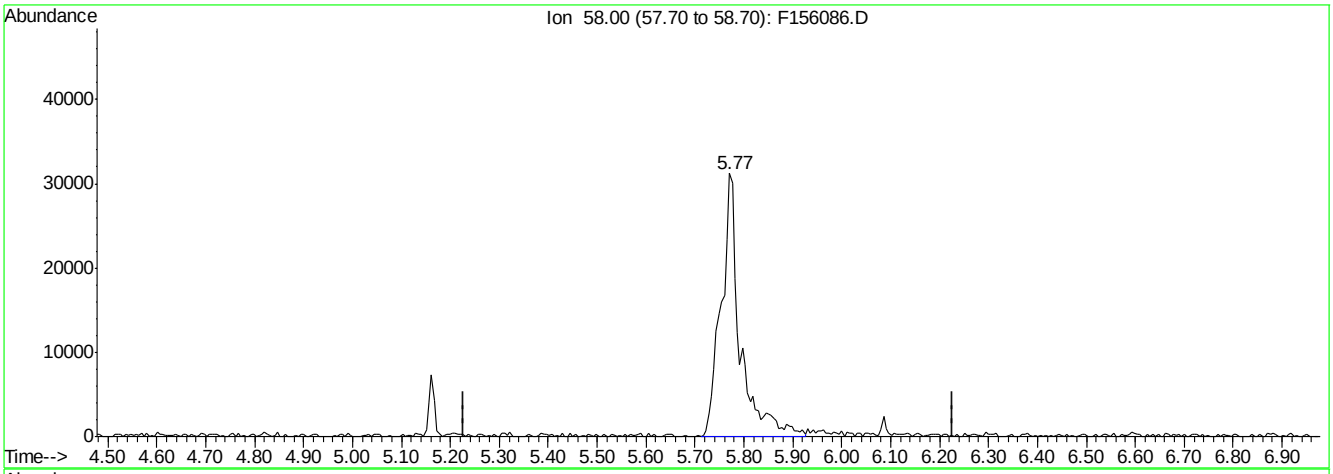
SGS ACCUTEST JC19214

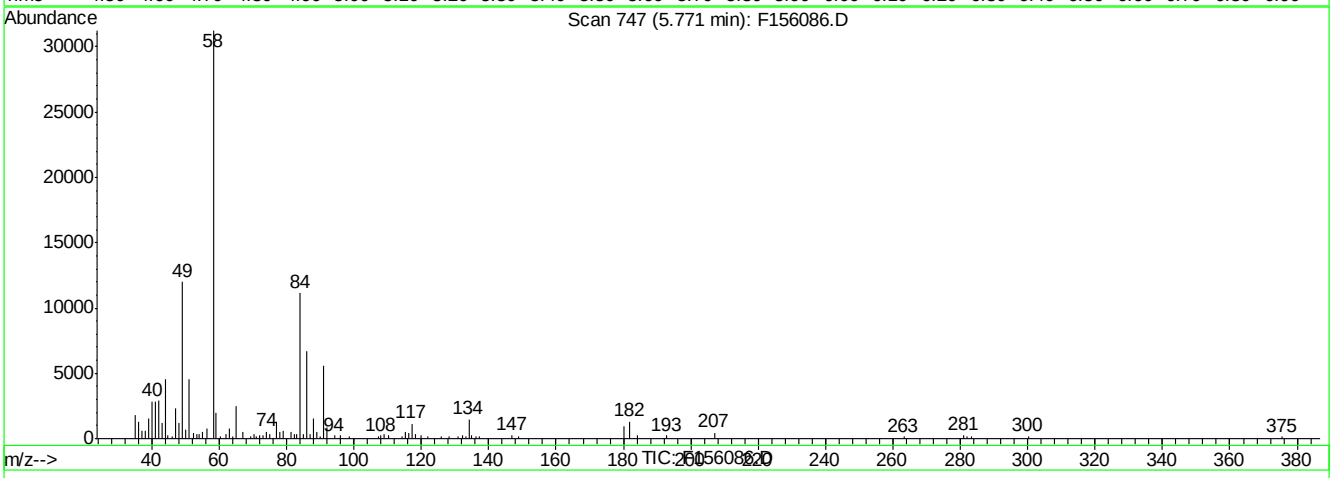
F156086.D edits: A,A-Dimethylphenethylamine

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156086.D Vial: 8
Acq On : 5 Apr 2016 5:06 pm Operator: linseyk
Sample : ic6566-2 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:03 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.77min 1.81ppm m

response 85216

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

F156086.D MF6563AP9.M Fri Apr 08 16:03:21 2016 RT1

SGS ACCUTEST JC19214

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
04/13/16 13:20

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:04:31 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	551861	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2166588	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1285460	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2081549	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1831143	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1703745	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.87	152	551861	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2166588	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1285460	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2081549	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1831143	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1703745	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.87	152	551861	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2166588	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1285460	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2081549	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1831143	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	551861	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2166588	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1831143	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2166588	40.00	ppm	0.00
180) Chrysene-d12B	14.53	240	1831143	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	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	3.43	93	25192	1.16	ppm		89
104) Pentachloroethane	4.67	167	8906	1.29	ppm		95
105) Methyl methanesulfonate	3.75	80	12823	1.19	ppm		96
106) N-Nitrosodiethylamine	4.06	102	11084	1.19	ppm		92
107) N-Nitrosomethylethylamine	3.51	42	7985	0.91	ppm	#	74
108) Ethyl methanesulfonate	4.30	79	18777	1.23	ppm		92
109) N-Nitrosopyrrolidine	5.15	41	9220	1.21	ppm		86
110) N-Nitrosomorpholine	5.17	56	11962	1.19	ppm		81
111) o-Toluidine	5.19	106	39473	1.54	ppm		94
113) O,O,O-Triethyl phosphoroth	5.59	198	10010	1.35	ppm		86
114) N-Nitrosopiperidine	5.40	42	12985	1.15	ppm		93
115) A,A-Dimethylphenethylamine	5.76	58	47278m	1.02	ppm		

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:04:31 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
116)	Hexachloropropene	5.88	213	10799	1.14	ppm		95
117)	p-Phenylenediamine	6.12	108	6920	0.90	ppm		74
118)	N-Nitrosodi-n-butylamine	6.09	84	20515	1.35	ppm		93
119)	Safrole	6.26	162	15617	1.22	ppm		96
120)	Isosafrole	6.68	162	5920	1.28	ppm		94
122)	Thionazin	7.84	143	6097	1.30	ppm		90
123)	Tetraethyl dithiopyrophosp	8.25	322	4586	1.14	ppm		100
124)	Phorate	8.44	75	28794	1.10	ppm		100
125)	Phenacetin	8.44	108	17636	0.84	ppm		98
126)	1,4-Naphthoquinone	6.89	158	7663	1.01	ppm		97
127)	m-Dinitrobenzene	7.02	168	4425	0.73	ppm	#	65
128)	Pentachlorobenzene	7.44	250	15631	1.39	ppm		91
129)	1-Naphthylamine	7.57	143	33826	1.28	ppm		95
130)	2-Naphthylamine	7.66	143	40769	1.30	ppm		99
131)	5-Nitro-o-toluidine	7.89	152	10287	0.91	ppm		87
133)	Disulfoton	9.25	88	23371	1.10	ppm		94
134)	Dinoseb	9.22	211	3643	0.40	ppm		74
135)	Dimethoate	8.67	87	16680	1.13	ppm		95
136)	4-Aminobiphenyl	8.92	169	43927	2.68	ppm		96
137)	Methyl parathion	9.88	125	7296	0.76	ppm		90
138)	Parathion	10.63	109	6747	0.83	ppm		89
139)	Diphenylamine	8.03	169	68602	1.38	ppm		99
140)	Isodrin	11.12	193	7696	1.30	ppm		82
142)	Pentachloronitrobenzene	8.93	295	3407	2.48	ppm		92
143)	Pronamide	9.03	173	14300	0.90	ppm		95
144)	4-Nitroquinoline 1-oxide	10.62	190	8547	1.57	ppm		88
145)	Methapyriline	10.84	58	21748	2.15	ppm		97
146)	sym-Trinitrobenzene	8.37	213	1723	0.45	ppm	#	71
148)	Aramite	12.52	185	1713	1.10	ppm	#	73
149)	p-(Dimethylamine)azobenzen	12.61	120	13756	0.78	ppm		61
150)	Kepone	13.35	272	21712	14.58	ppm		81
151)	Famphur	13.29	218	133795	25.41	ppm		95
152)	2-Acetylaminofluorene	13.89	181	12080	0.51	ppm		84
153)	3,3'-Dimethylbenzidine	13.36	212	27072	6.97	ppm		98
154)	Chlorobenzilate	12.76	251	12310	0.91	ppm		93
156)	4,4-Methylene-bis-(2-chlor	14.58	266	5665	1.39	ppm	#	52
157)	3-Methylcholanthrene	18.18	268	19836	0.88	ppm		90

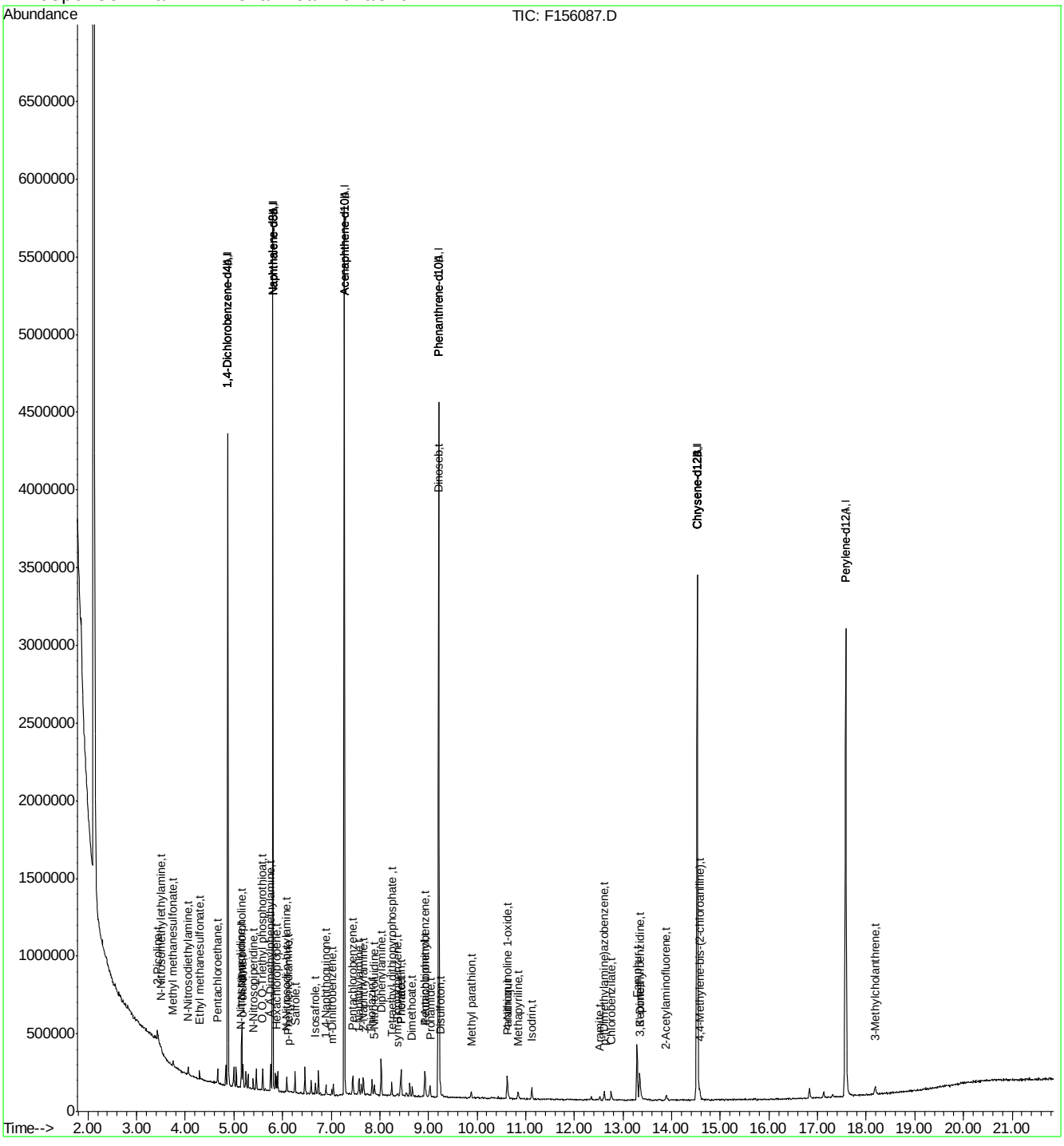
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:06 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integration Approval Summary

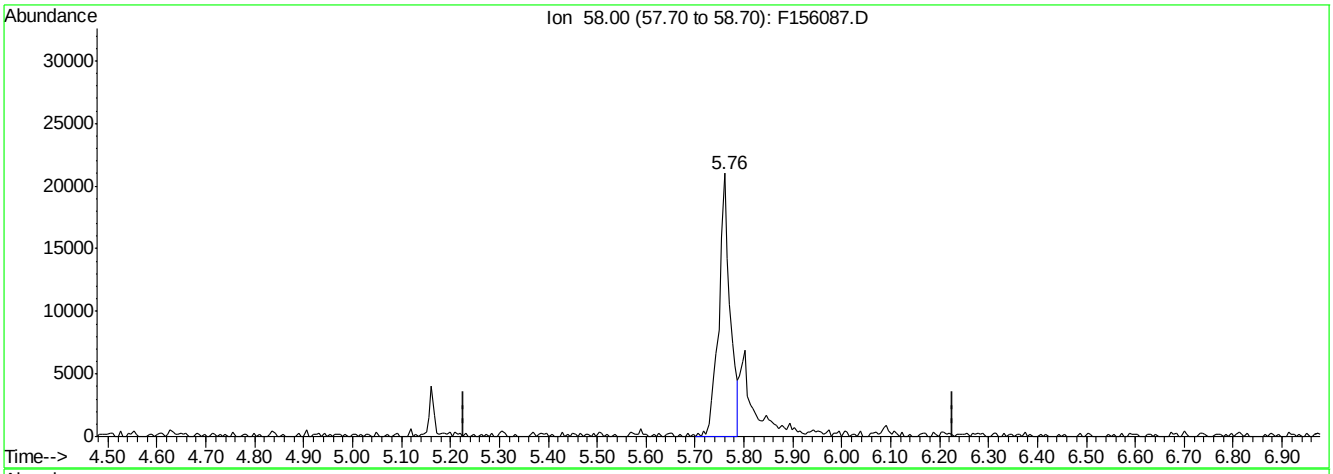
Sample Number:	EF6566-IC6566	**Method:**	SW846 8270D
Lab FileID:	F156087.D	**Analyst approved:**	04/08/16 17:21 Kristi Schollenberger
Injection Time:	04/05/16 17:35	**Supervisor approved:**	04/13/16 13:20 Nina Pandya

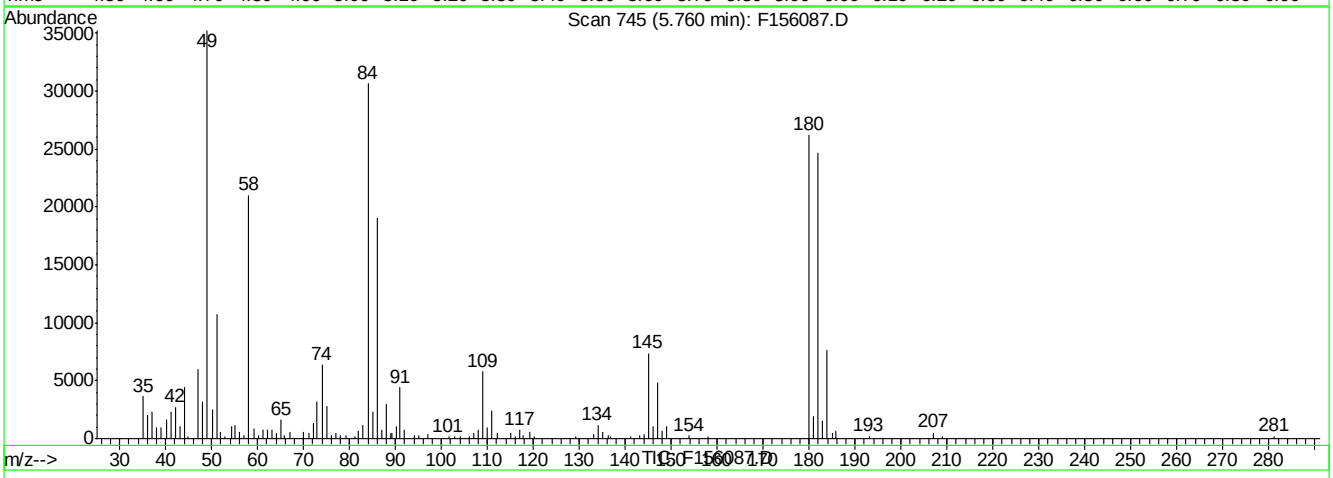
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.76	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:04 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 0.72ppm

response 33333

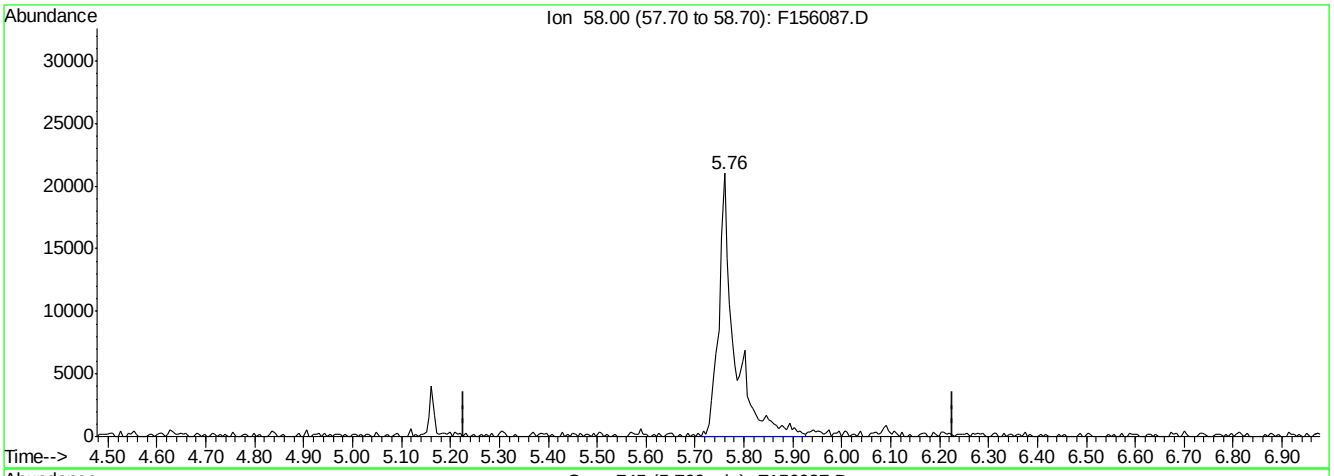
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

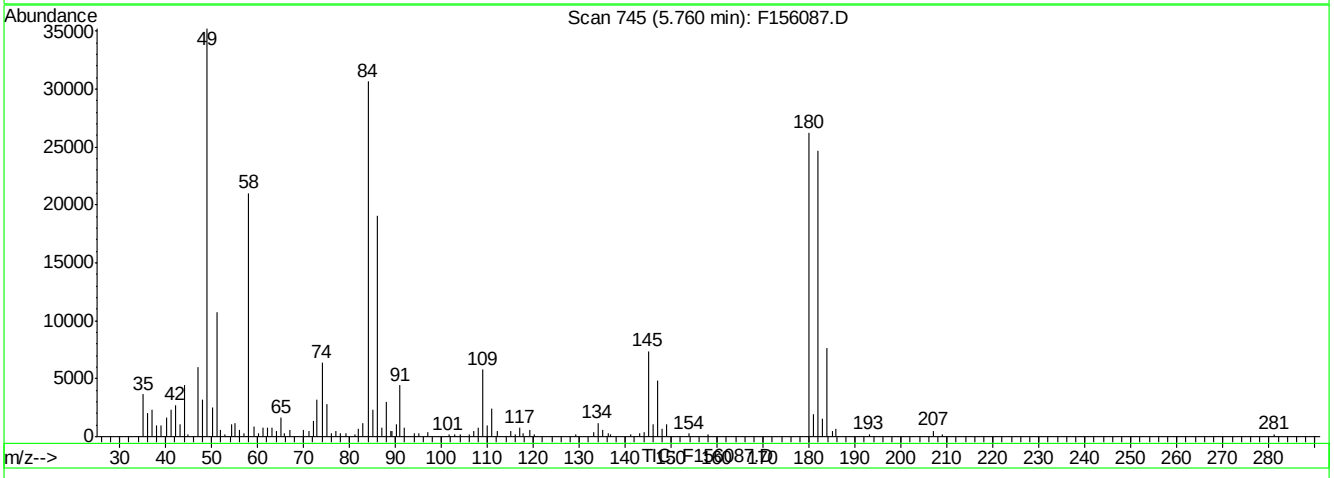
F156087.D MF6563AP9.M Fri Apr 08 16:05:11 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6566\F156087.D Vial: 9
Acq On : 5 Apr 2016 5:35 pm Operator: linseyk
Sample : ic6566-1 Inst : MSF
Misc : op92661,ef6566 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:05 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 15:54:57 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 1.02ppm m

response 47278

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

F156087.D MF6563AP9.M Fri Apr 08 16:05:23 2016 RT1

7.6.45.3

7

SGS ACCUTEST JC19214

F156087.D edits: A,A-Dimethylphenethylamine

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:44:02 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	549264	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2140076	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1242814	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2015567	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1762466	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1617527	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.87	152	549264	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2140076	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1242814	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2015567	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1762466	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1617527	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.87	152	549264	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2140076	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1242814	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2015567	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1762466	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	549264	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2140076	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1762466	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2140076	40.00	ppm	0.00
180) Chrysene-d12B	14.52	240	1762466	40.00	ppm	0.02

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
162) Hydroquinone	6.07	110	986234	56.47	ppm	92

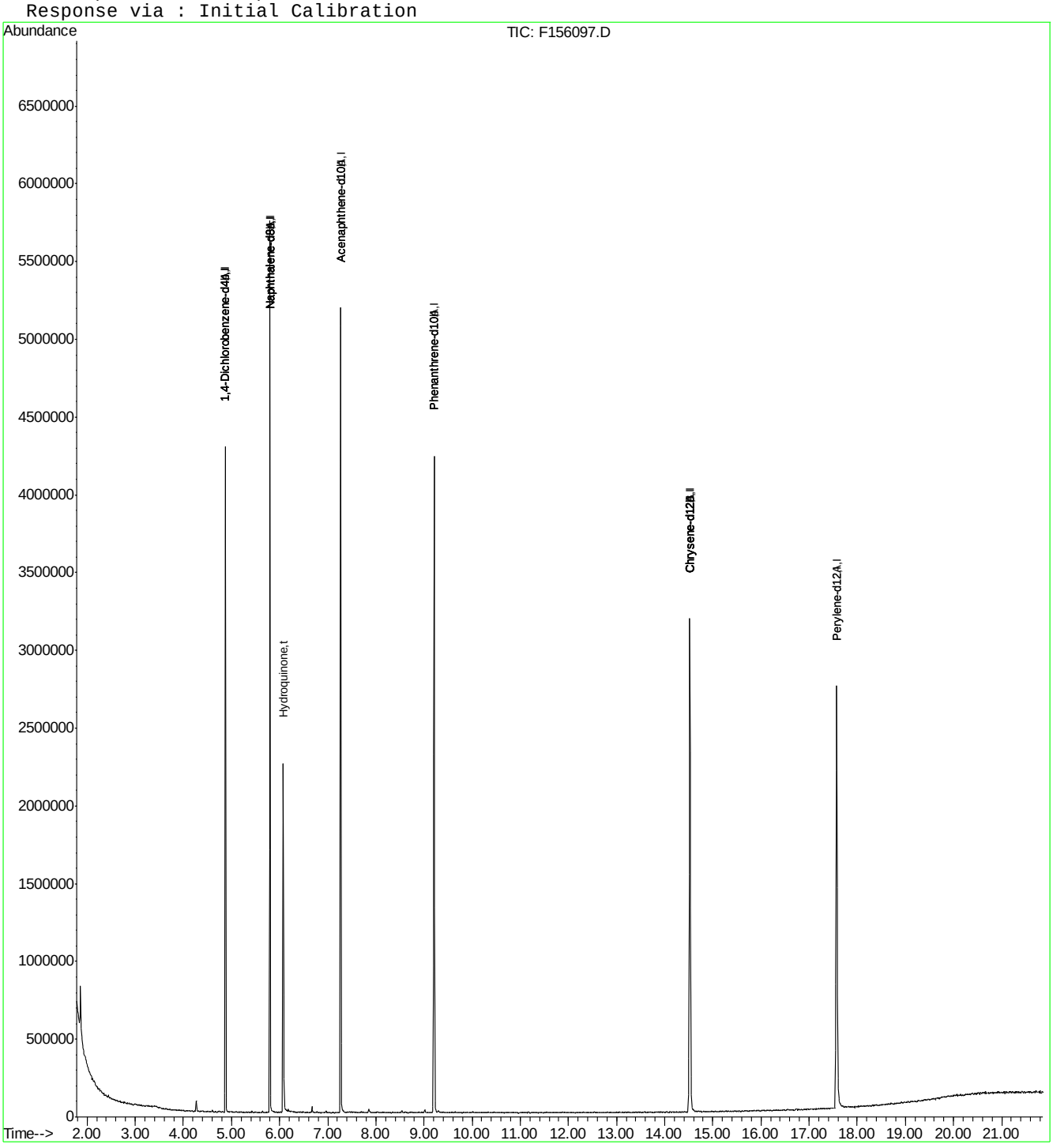
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156097.D Vial: 10
Acq On : 5 Apr 2016 10:16 pm Operator: sarad
Sample : icv6564-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:45 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 04/11/16 09:37

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:50:00 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	607740	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2295064	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1307094	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2046047	40.00	ppm	0.00
83) Chrysene-d12	14.53	240	1726041	40.00	ppm	0.00
92) Perylene-d12	17.57	264	1493872	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4A	4.88	152	607740	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2295064	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1307094	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2046047	40.00	ppm	0.00
147) Chrysene-d12A	14.53	240	1726041	40.00	ppm	0.00
155) Perylene-d12A	17.57	264	1493872	40.00	ppm	-0.02
159) 1,4-Dichlorobenzene-d4b	4.88	152	607740	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2295064	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1307094	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2046047	40.00	ppm	0.00
167) Chrysene-d12b	14.53	240	1726041	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	607740	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2295064	40.00	ppm	0.00
176) Chrysene-d12c	14.53	240	1726041	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2295064	40.00	ppm	0.01
180) Chrysene-d12B	14.53	240	1726041	40.00	ppm	0.02

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
103) 2-Picoline	3.41	93	1160026	45.92	ppm	97
104) Pentachloroethane	4.67	167	378269	45.04	ppm	99
105) Methyl methanesulfonate	3.75	80	619513	48.73	ppm	100
106) N-Nitrosodiethylamine	4.07	102	504839	46.57	ppm	95
107) N-Nitrosomethylethylamine	3.51	42	465045	48.78	ppm	98
108) Ethyl methanesulfonate	4.30	79	821274	46.24	ppm	98
109) N-Nitrosopyrrolidine	5.15	41	368370	45.21	ppm	88
110) N-Nitrosomorpholine	5.18	56	517416	43.21	ppm	98
111) o-Toluidine	5.19	106	1412431	41.03	ppm	97
113) O,O,O-Triethyl phosphoroth	5.59	198	433738	46.18	ppm	95
114) N-Nitrosopiperidine	5.40	42	594242	48.04	ppm	94
115) A,A-Dimethylphenethylamine	5.67	58	2390261m	49.75	ppm	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:50:00 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
116)	Hexachloropropene	5.88	213	524601	47.61	ppm	98
117)	p-Phenylenediamine	6.11	108	944525	82.25	ppm	97
118)	N-Nitrosodi-n-butylamine	6.09	84	907760	58.97	ppm	90
119)	Safrole	6.26	162	779775	50.65	ppm	99
120)	Isosafrole	6.68	162	798138	114.81	ppm	98
122)	Thionazin	7.84	143	249836	47.08	ppm	98
123)	Tetraethyl dithiopyrophosp	8.25	322	219457	48.49	ppm	100
124)	Phorate	8.44	75	1388067	48.61	ppm	100
125)	Phenacetin	8.46	108	1004279	48.01	ppm	96
126)	1,4-Naphthoquinone	6.90	158	649305	69.54	ppm	91
128)	Pentachlorobenzene	7.44	250	642358	46.65	ppm	99
131)	5-Nitro-o-toluidine	7.90	152	466042	40.23	ppm	86
133)	Disulfoton	9.25	88	1116689	50.42	ppm	98
135)	Dimethoate	8.68	87	621730	38.57	ppm	97
136)	4-Aminobiphenyl	8.93	169	1046655	56.72	ppm	99
137)	Methyl parathion	9.88	125	367818	38.62	ppm	97
138)	Parathion	10.63	109	410834	50.96	ppm	99
140)	Isodrin	11.12	193	323311	49.71	ppm	97
141)	Diallate	8.55	86	164354	45.34	ppm	92
142)	Pentachloronitrobenzene	8.94	295	82827	51.63	ppm	92
143)	Pronamide	9.04	173	864735	54.52	ppm	99
144)	4-Nitroquinoline 1-oxide	10.63	190	179665	37.84	ppm	96
145)	Methapyriline	10.84	58	621582	40.65	ppm	96
148)	Aramite	12.53	185	191414	129.41	ppm	96
149)	p-(Dimethylamine)azobenzen	12.62	120	925653	56.75	ppm	99
150)	Kepone	13.58	272	112333m	41.38	ppm	
152)	2-Acetylaminofluorene	13.90	181	1087551	53.24	ppm	98
153)	3,3'-Dimethylbenzidine	13.36	212	653798	38.25	ppm	98
154)	Chlorobenzilate	12.76	251	690717	53.27	ppm	97
157)	3-Methylcholanthrene	18.18	268	1046690	53.06	ppm	98

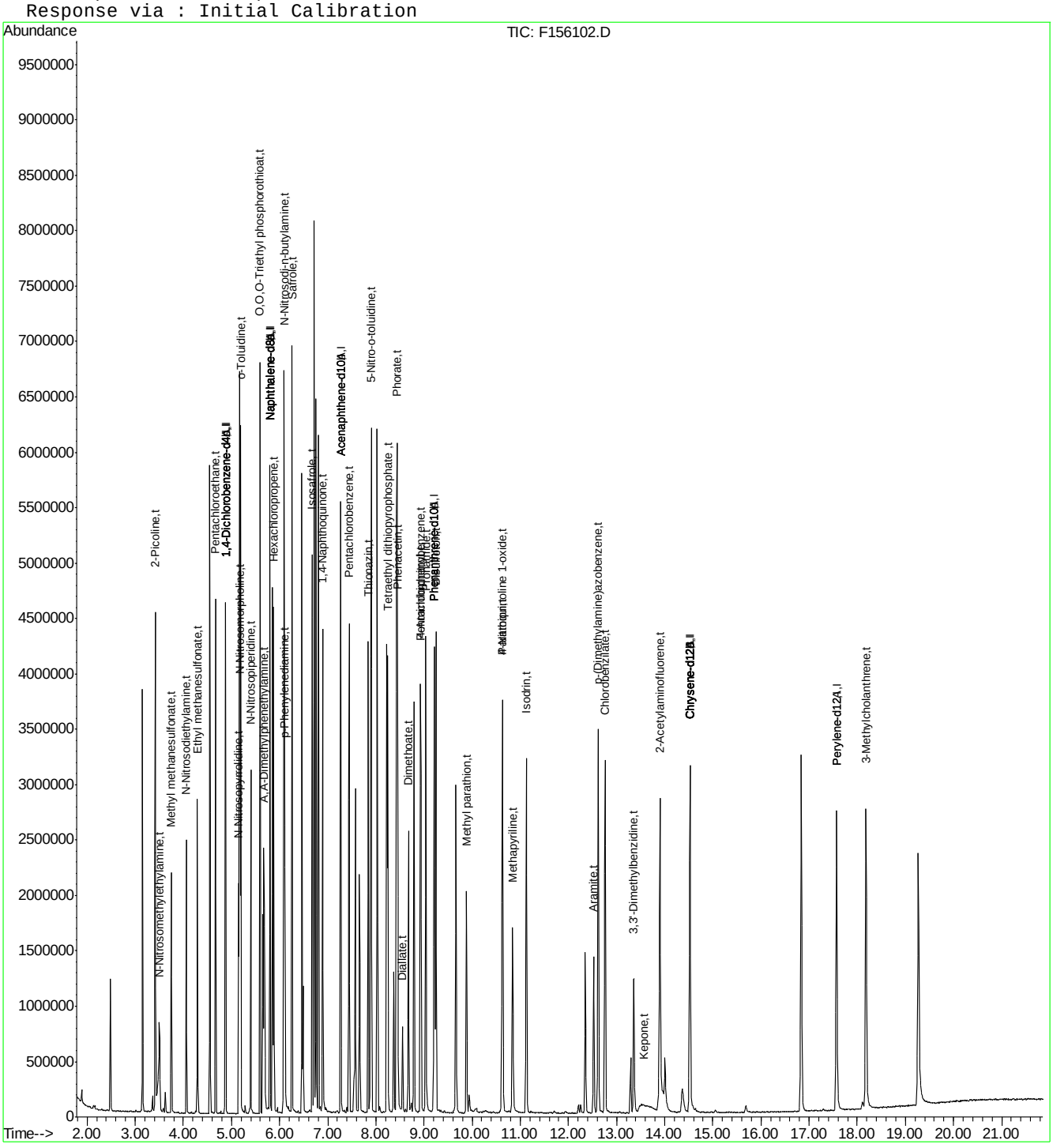
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:13 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Manual Integration Approval Summary

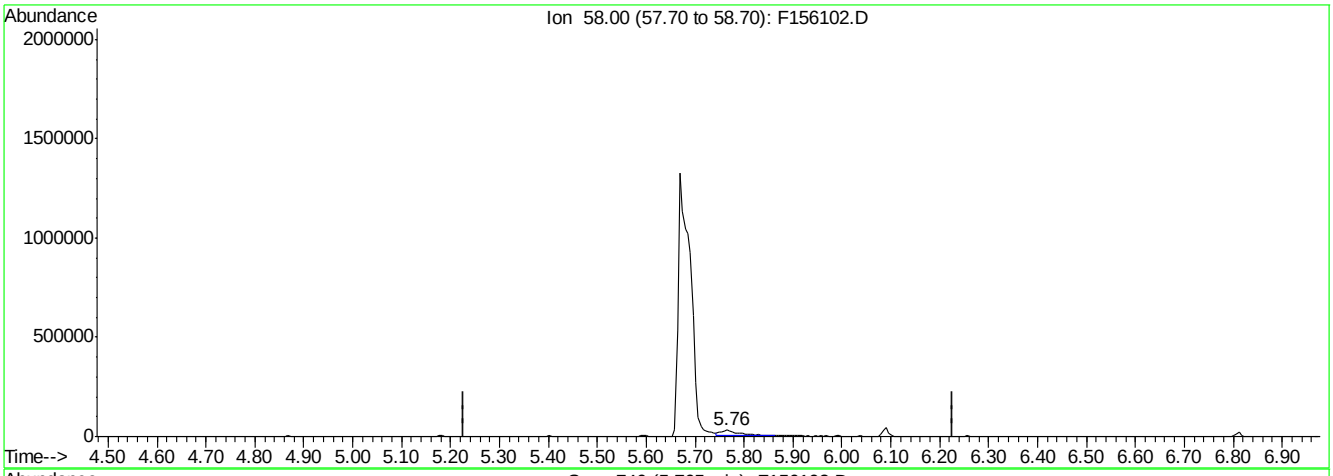
Sample Number:	EF6567-ICV6566	**Method:**	SW846 8270D
Lab FileID:	F156102.D	**Analyst approved:**	04/08/16 17:45 Kristi Schollenberger
Injection Time:	04/06/16 00:41	**Supervisor approved:**	04/11/16 09:37 Kristi Schollenberger

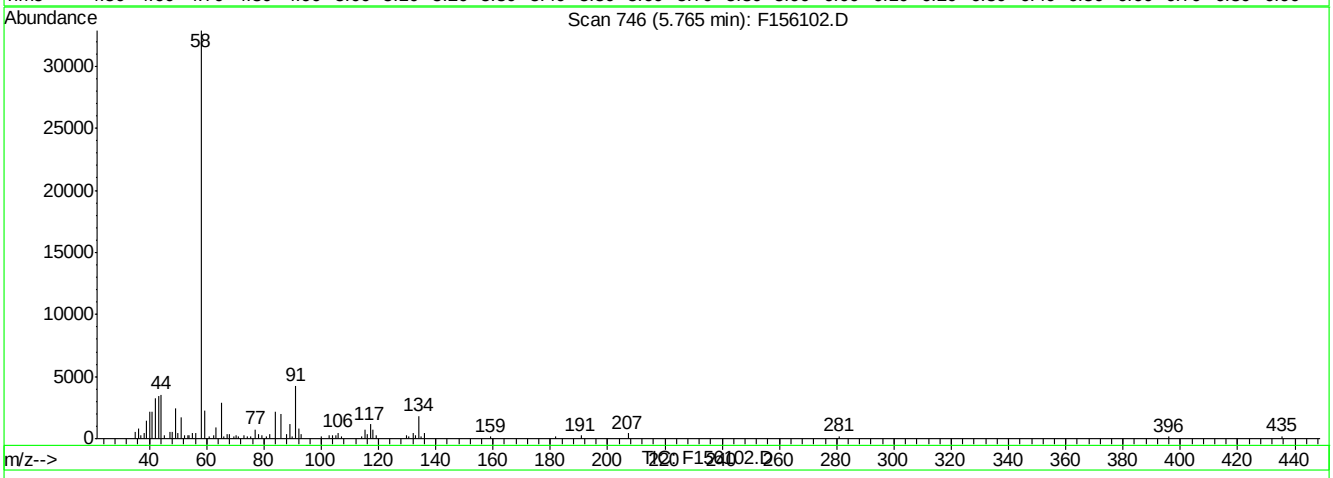
Parameter	CAS	Sig#	R.T. (min.)	Reason
A,A-Dimethylphenethylamine	122-09-8		5.67	Split peak
Kepone	143-50-0		13.58	Split peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.76min 1.37ppm

response 65972

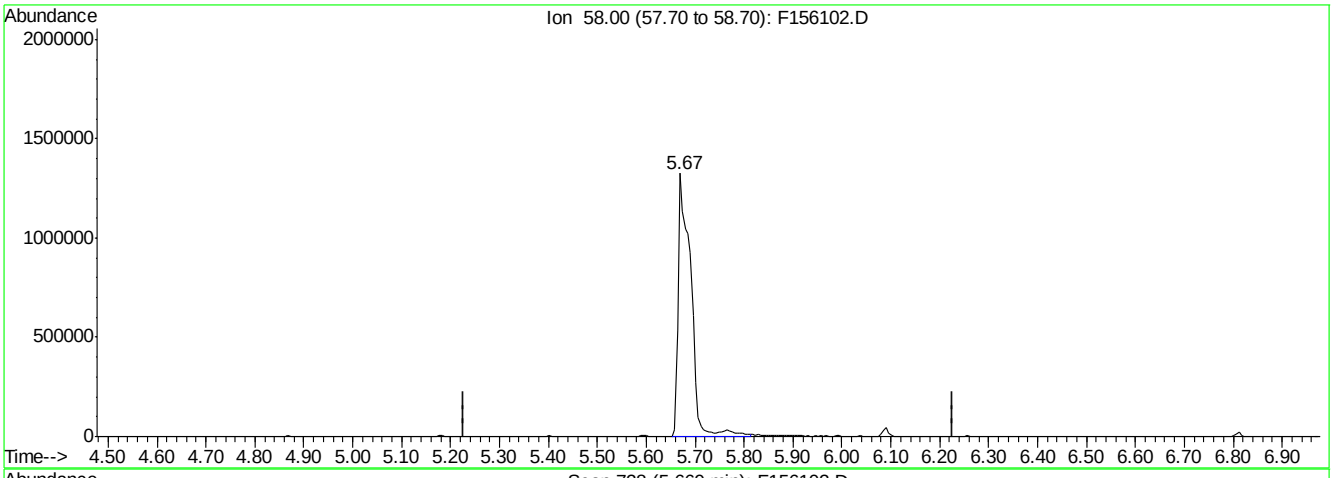
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

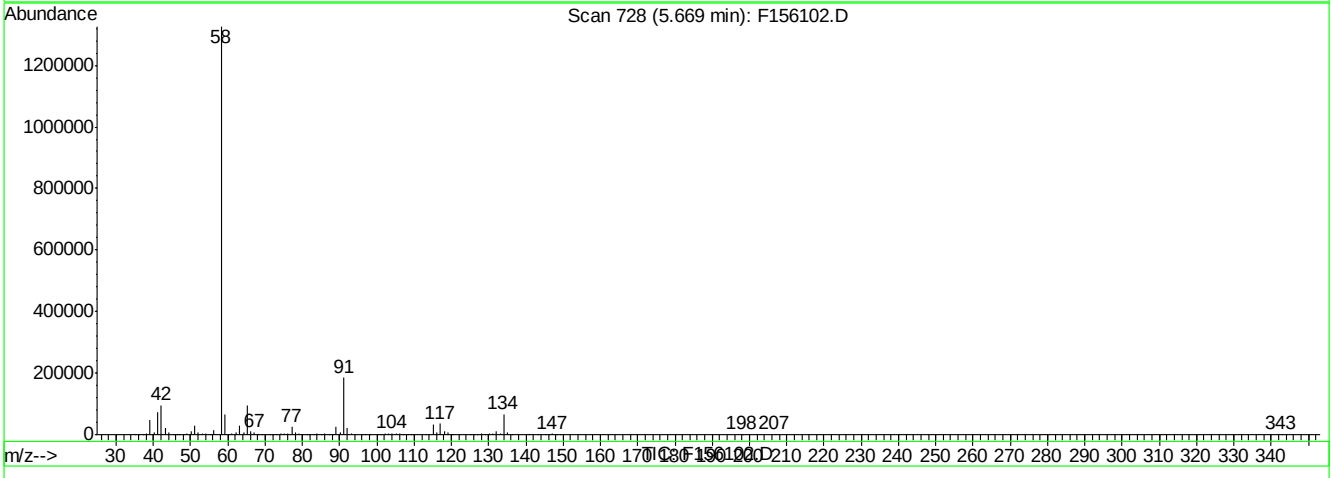
F156102.D MF6563AP9.M Fri Apr 08 16:50:48 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:50 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(115) A,A-Dimethylphenethylamine (t)

5.67min 49.75ppm m

response 2390261

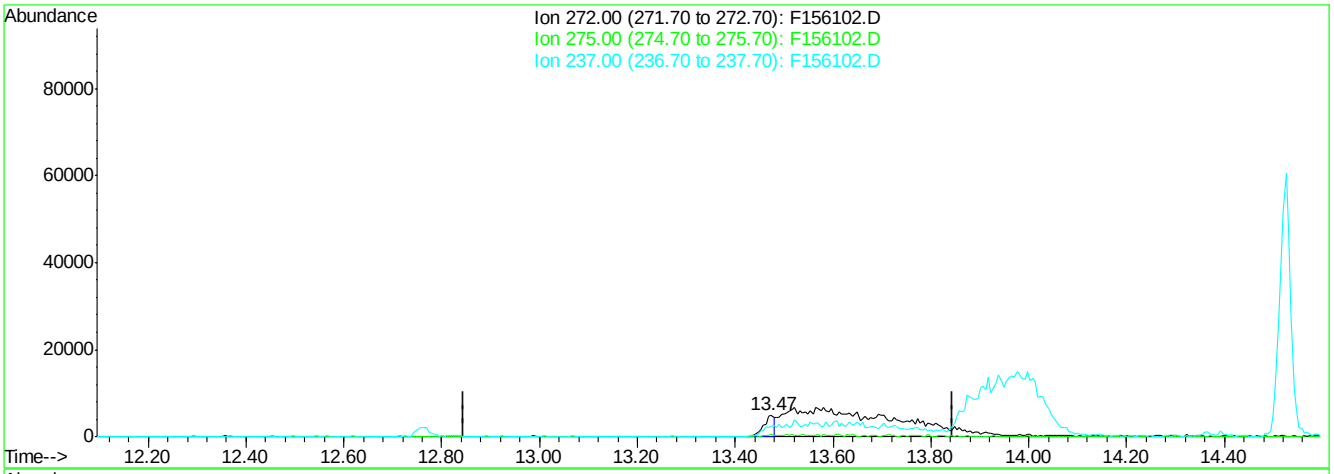
Ion	Exp%	Act%
58.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

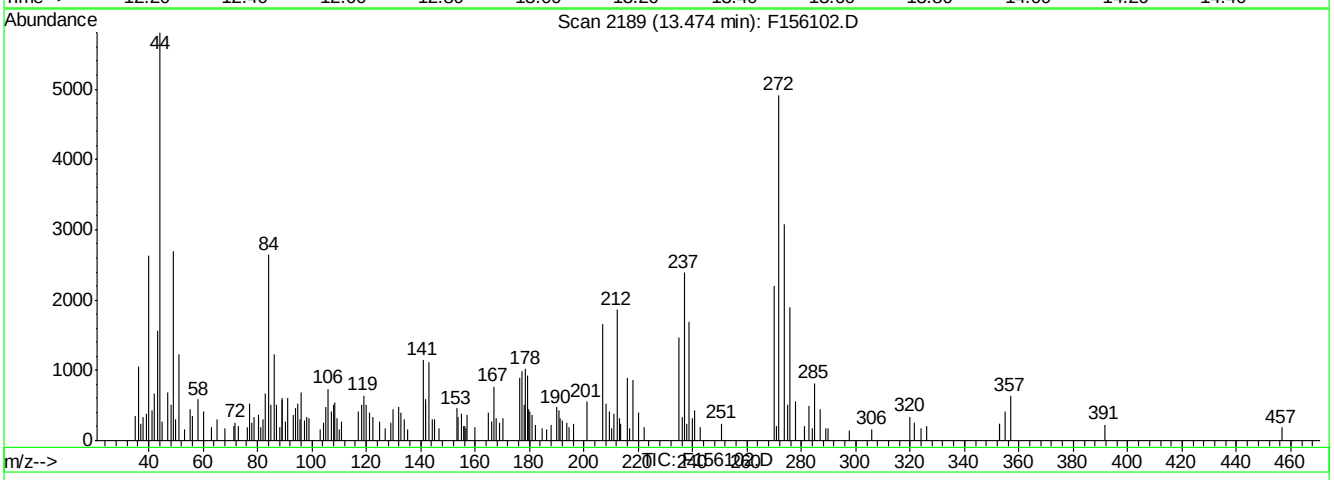
F156102.D MF6563AP9.M Fri Apr 08 16:51:00 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(150) Kepone (t)

13.47min 2.69ppm

response 7311

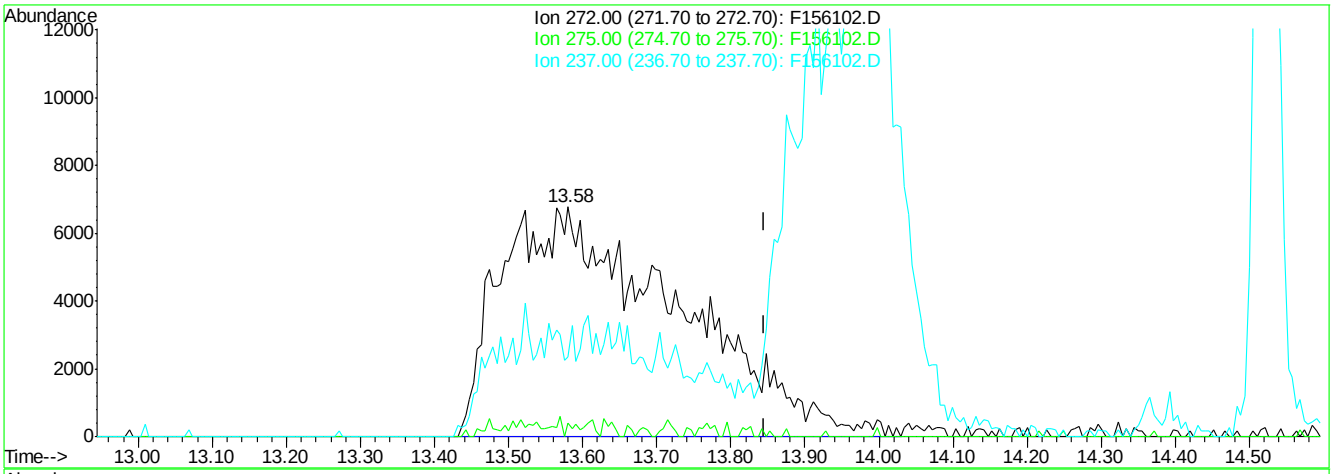
Ion	Exp%	Act%
272.00	100	100
275.00	5.40	14.59
237.00	52.60	39.54
0.00	0.00	0.00

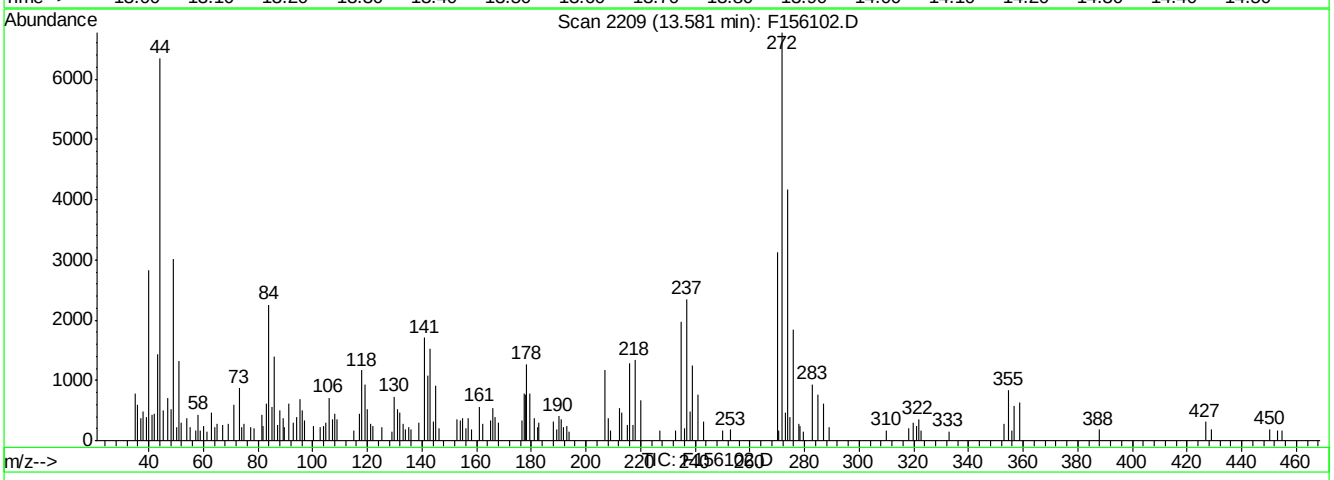
F156102.D MF6563AP9.M Fri Apr 08 16:53:37 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156102.D Vial: 15
Acq On : 6 Apr 2016 12:41 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 16:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Multiple Level Calibration





(150) Kepone (t)

13.58min 41.38ppm m

response 112333

Ion	Exp%	Act%
272.00	100	100
275.00	5.40	5.86
237.00	52.60	34.66
0.00	0.00	0.00

F156102.D MF6563AP9.M Fri Apr 08 16:53:44 2016 RT1

7.6.47.5

7

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156104.D Vial: 17
Acq On : 6 Apr 2016 1:39 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:55:53 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.87	152	584258	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2277173	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1347272	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2138787	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1837886	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1687435	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.87	152	584258	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2277173	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1347272	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2138787	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1837886	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1687435	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.87	152	584258	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2277173	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1347272	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2138787	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1837886	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.87	152	584258	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2277173	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1837886	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2277173	40.00	ppm	0.00
180) Chrysene-d12B	14.52	240	1837886	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	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%			

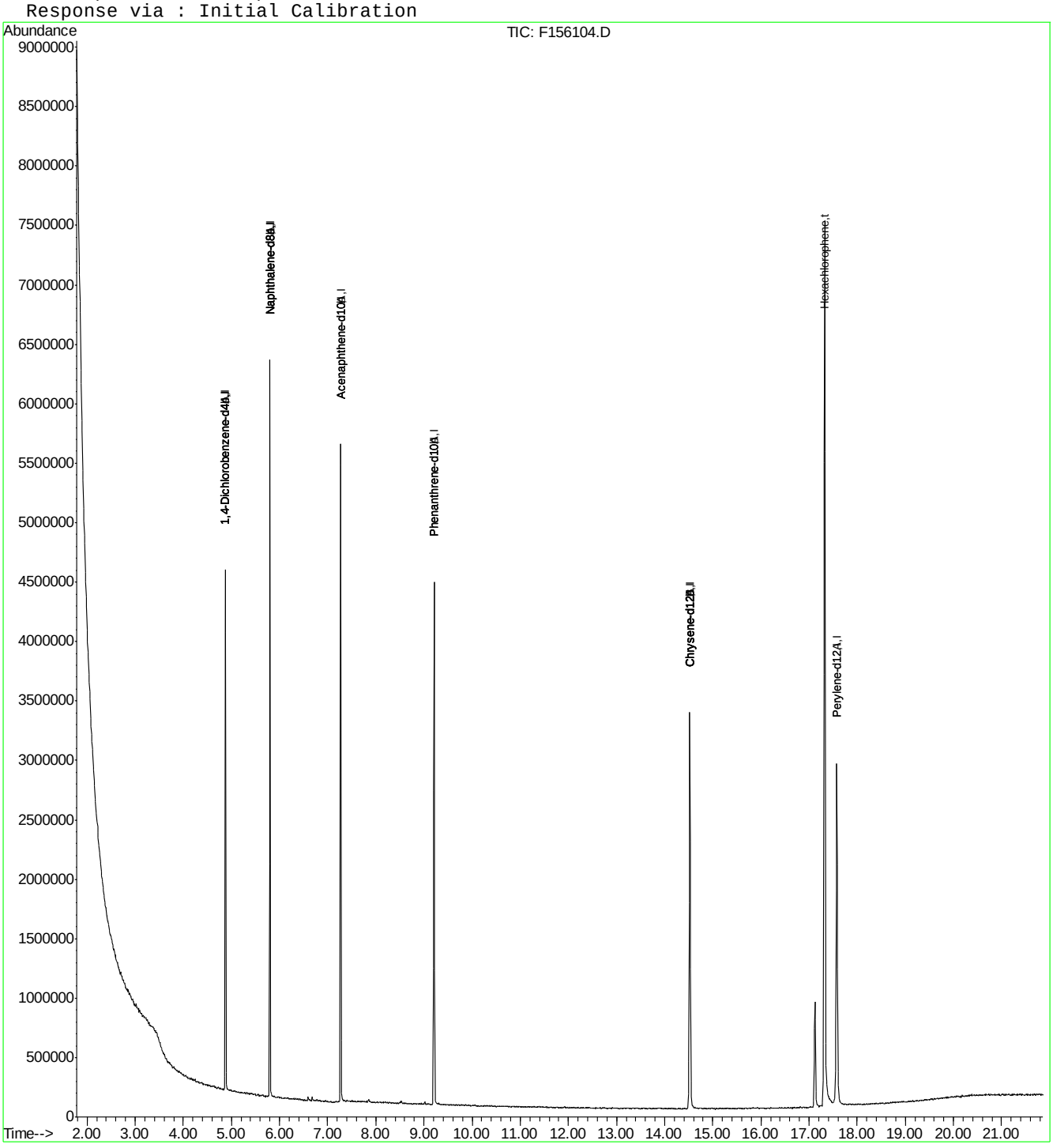
Target Compounds						Qvalue
158) Hexachlorophene	17.33	196	1075105	385.15	ppm	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156104.D Vial: 17
Acq On : 6 Apr 2016 1:39 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:28 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



F156104.D MF6563AP9.M Fri Apr 08 17:28:52 2016 RT1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156105.D Vial: 18
Acq On : 6 Apr 2016 2:08 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 17:02:02 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	816477	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	3298259	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1724238	40.00	ppm	0.00
69) Phenanthrene-d10	9.22	188	3117031	40.00	ppm	0.00
83) Chrysene-d12	14.54	240	2809628	40.00	ppm	0.01
92) Perylene-d12	17.58	264	2832445	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4A	4.88	152	816477	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	3298259	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1724238	40.00	ppm	0.00
132) Phenanthrene-d10A	9.22	188	3117031	40.00	ppm	0.00
147) Chrysene-d12A	14.54	240	2809628	40.00	ppm	0.01
155) Perylene-d12A	17.58	264	2832445	40.00	ppm	0.00
159) 1,4-Dichlorobenzene-d4b	4.88	152	816477	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	3298259	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1724238	40.00	ppm	0.00
165) Phenanthrene-d10b	9.22	188	3117031	40.00	ppm	0.00
167) Chrysene-d12b	14.54	240	2809628	40.00	ppm	0.01
169) 1,4-Dichlorobenzene-d4c	4.88	152	816477	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	3298259	40.00	ppm	0.00
176) Chrysene-d12c	14.54	240	2809628	40.00	ppm	0.01
178) Naphthalene-d8a	5.80	136	3298259	40.00	ppm	0.01
180) Chrysene-d12B	14.54	240	2809628	40.00	ppm	0.03

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

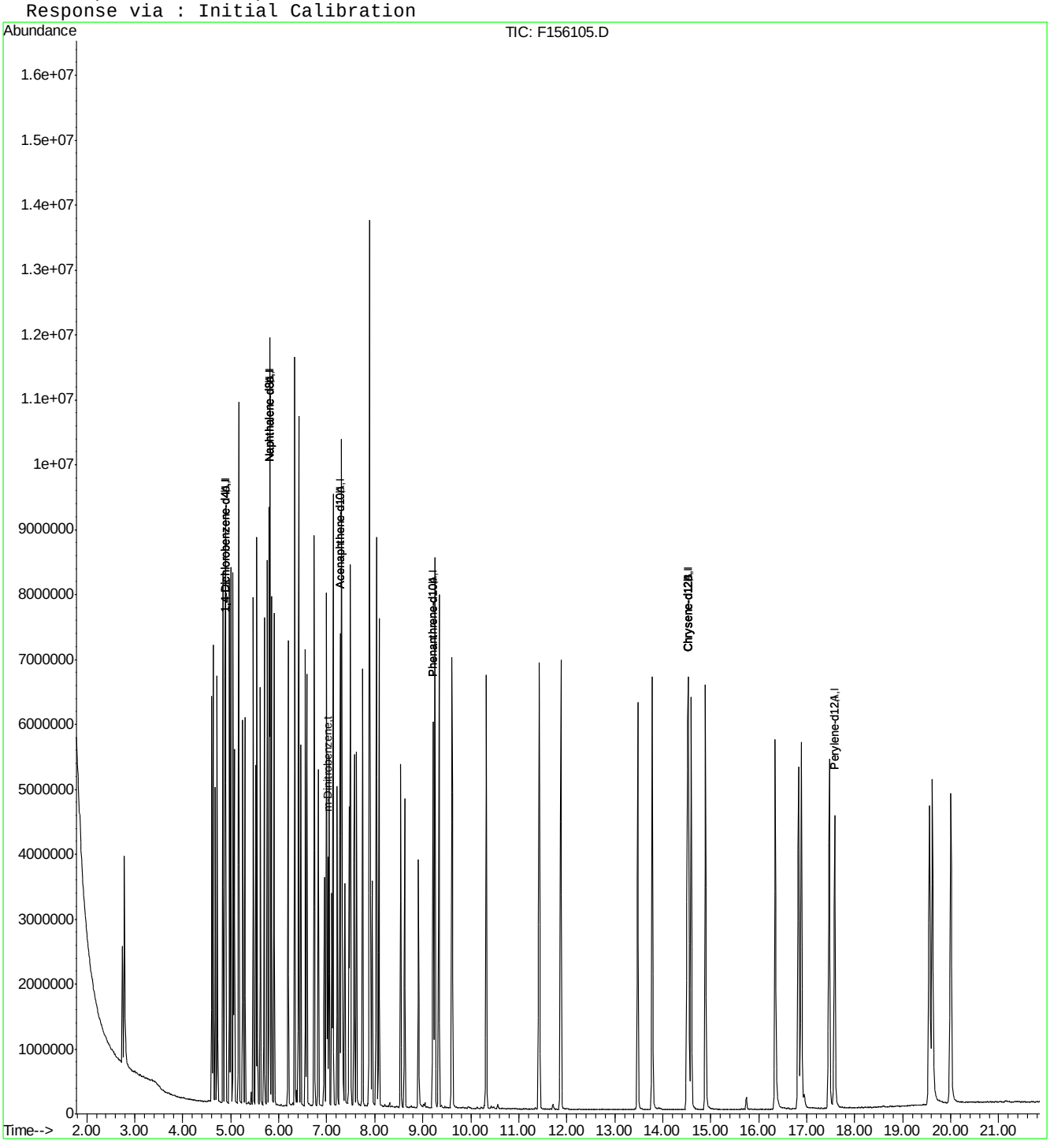
Target Compounds						Qvalue
127) m-Dinitrobenzene	7.02	168	497233	63.83	ppm	# 79

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156105.D Vial: 18
Acq On : 6 Apr 2016 2:08 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:03 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156106.D Vial: 19
Acq On : 6 Apr 2016 2:38 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 08 16:57:10 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 16:43:38 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.88	152	585074	40.00	ppm	0.00
24) Naphthalene-d8	5.80	136	2228489	40.00	ppm	0.00
47) Acenaphthene-d10	7.27	164	1338443	40.00	ppm	0.00
69) Phenanthrene-d10	9.21	188	2175323	40.00	ppm	0.00
83) Chrysene-d12	14.52	240	1917380	40.00	ppm	0.00
92) Perylene-d12	17.58	264	1712263	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4A	4.88	152	585074	40.00	ppm	0.00
112) Naphthalene-d8A	5.80	136	2228489	40.00	ppm	0.00
121) Acenaphthene-d10A	7.27	164	1338443	40.00	ppm	0.00
132) Phenanthrene-d10A	9.21	188	2175323	40.00	ppm	0.00
147) Chrysene-d12A	14.52	240	1917380	40.00	ppm	0.00
155) Perylene-d12A	17.58	264	1712263	40.00	ppm	-0.01
159) 1,4-Dichlorobenzene-d4b	4.88	152	585074	40.00	ppm	0.00
161) Naphthalene-d8b	5.80	136	2228489	40.00	ppm	0.00
163) Acenaphthene-d10b	7.27	164	1338443	40.00	ppm	0.00
165) Phenanthrene-d10b	9.21	188	2175323	40.00	ppm	0.00
167) Chrysene-d12b	14.52	240	1917112	40.00	ppm	0.00
169) 1,4-Dichlorobenzene-d4c	4.88	152	585074	40.00	ppm	0.00
171) Naphthalene-d8c	5.80	136	2228489	40.00	ppm	0.00
176) Chrysene-d12c	14.52	240	1917112	40.00	ppm	0.00
178) Naphthalene-d8a	5.80	136	2228489	40.00	ppm	0.01
180) Chrysene-d12B	14.52	240	1917112	40.00	ppm	0.02

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds						Qvalue
129) 1-Naphthylamine	7.57	143	1988980	63.03	ppm	96
130) 2-Naphthylamine	7.66	143	1982031	53.50	ppm	99
146) sym-Trinitrobenzene	8.37	213	162718	40.91	ppm	92

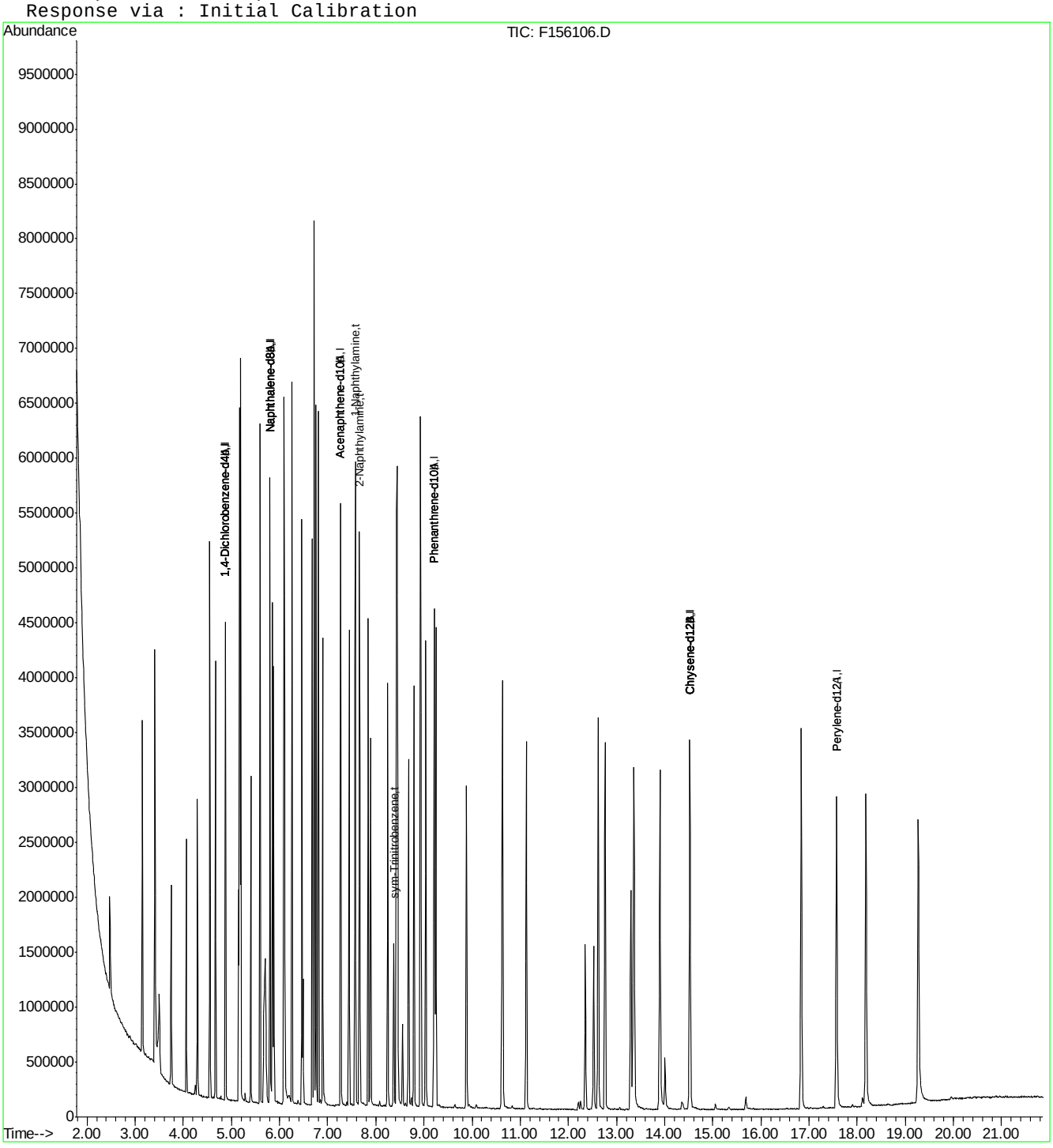
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6567\F156106.D Vial: 19
Acq On : 6 Apr 2016 2:38 am Operator: sarad
Sample : icv6566-50 Inst : MSF
Misc : op92661,ef6567 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 8 17:06 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 08 17:01:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156633.D Vial: 2
Acq On : 28 Apr 2016 9:08 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:28:47 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	738012	40.00	ppm	0.00
24) Naphthalene-d8	5.68	136	2972609	40.00	ppm	0.00
47) Acenaphthene-d10	7.12	164	1778700	40.00	ppm	0.00
69) Phenanthrene-d10	9.01	188	2909099	40.00	ppm	0.00
83) Chrysene-d12	14.28	240	2769391	40.00	ppm	0.00
92) Perylene-d12	17.32	264	2578328	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4b	4.76	152	738012	40.00	ppm	0.00
104) Naphthalene-d8b	5.68	136	2972609	40.00	ppm	0.00
106) Acenaphthene-d10b	7.12	164	1778700	40.00	ppm	0.00
108) Phenanthrene-d10b	9.01	188	2909099	40.00	ppm	0.00
110) Chrysene-d12b	14.28	240	2769391	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.80	112	1297144	49.98	ppm	0.01
Spiked Amount 50.000			Recovery = 99.96%			
8) Phenol-d5	4.52	99	1692921	53.64	ppm	0.03
Spiked Amount 50.000			Recovery = 107.28%			
25) Nitrobenzene-d5	5.16	82	1660879	59.83	ppm	0.00
Spiked Amount 50.000			Recovery = 119.66%			
51) 2-Fluorobiphenyl	6.50	172	2757848	48.58	ppm	0.00
Spiked Amount 50.000			Recovery = 97.16%			
73) 2,4,6-Tribromophenol	8.02	330	346738	58.41	ppm	0.00
Spiked Amount 50.000			Recovery = 116.82%			
85) Terphenyl-d14	12.06	244	2738177	48.68	ppm	-0.02
Spiked Amount 50.000			Recovery = 97.36%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.32	88	510774	44.70	ppm		98
3) Pyridine	2.65	79	1395094	51.82	ppm		98
4) N-Nitrosodimethylamine	2.61	42	619595	63.96	ppm		100
6) Indene	4.94	116	2351581	53.84	ppm		99
7) Cumene	4.16	105	3290040	56.08	ppm		94
9) Phenol	4.53	94	1967266	58.55	ppm	#	51
10) Aniline	4.51	93	1258656	34.23	ppm		93
11) bis(2-Chloroethyl)ether	4.56	93	1309614	54.18	ppm		94
12) 2-Chlorophenol	4.62	128	1392684	50.83	ppm		99
13) Decane	4.63	43	1047756	44.45	ppm		93
14) 1,3-Dichlorobenzene	4.71	146	1507562	49.61	ppm		99
15) 1,4-Dichlorobenzene	4.77	146	1529148	50.43	ppm		97
16) Benzyl alcohol	4.87	108	922327	52.79	ppm	#	71
17) 1,2-Dichlorobenzene	4.88	146	1448812	50.83	ppm		98
18) Acetophenone	5.05	105	2002648	60.63	ppm		78
19) 2-Methylphenol	4.97	108	1222868	52.11	ppm		100
20) 2,2'-oxybis(1-Chloropropan	4.95	121	450690	51.73	ppm	#	69
21) 3&4-Methylphenol	5.08	108	1348368	56.02	ppm		98
22) n-Nitroso-di-n-propylamine	5.06	70	1195770	67.06	ppm		94
23) Hexachloroethane	5.12	201	485483	51.70	ppm		92
26) Nitrobenzene	5.18	77	1759578	60.52	ppm		84
27) Quinoline	5.96	129	2724684	47.43	ppm		97
28) Isophorone	5.35	82	2752253	55.43	ppm		98

(#) = qualifier out of range (m) = manual integration
F156633.D MF6563.M Fri Apr 29 11:29:29 2016 RT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156633.D Vial: 2
Acq On : 28 Apr 2016 9:08 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:28:47 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 2-Nitrophenol	5.41	139	764312	50.67 ppm	#	69
30) 2,4-Dimethylphenol	5.45	107	1393411	58.65 ppm		98
31) Benzoic acid	5.57	105	1109828	55.87 ppm		94
32) bis(2-Chloroethoxy)methane	5.50	93	1591948	50.87 ppm		98
33) 2,4-Dichlorophenol	5.60	162	1128031	47.54 ppm		99
34) 2,6-Dichlorophenol	5.75	162	1110195	48.72 ppm		98
35) 1,3,5-Trichlorobenzene	5.41	180	1210565	48.46 ppm		99
36) 1,2,4-Trichlorobenzene	5.64	180	1173587	47.84 ppm		98
37) 1,2,3-Trichlorobenzene	5.80	180	1139008	47.06 ppm		99
38) Naphthalene	5.70	128	3991424	49.17 ppm		100
39) 4-Chloroaniline	5.74	127	1323317	39.48 ppm		97
40) 2,3-Dichloroaniline	6.43	161	1313690	47.53 ppm		97
41) Caprolactam	6.02	55	508673	45.11 ppm		92
42) Hexachlorobutadiene	5.78	225	621572	53.51 ppm		99
43) 4-Chloro-3-methylphenol	6.11	107	1325314	56.94 ppm	#	31
44) 2-Methylnaphthalene	6.20	141	2262027	49.42 ppm		95
45) 1-Methylnaphthalene	6.28	141	2358629	50.06 ppm		98
46) Dimethylnaphthalene	6.72	156	2360540	49.45 ppm		97
48) Hexachlorocyclopentadiene	6.33	237	1431821	118.63 ppm		99
49) 2,4,6-Trichlorophenol	6.44	196	771918	51.15 ppm		99
50) 2,4,5-Trichlorophenol	6.49	196	827087	49.77 ppm		100
52) 2-Chloronaphthalene	6.60	162	2490913	48.46 ppm		96
53) Biphenyl	6.58	154	3251906	49.27 ppm		98
54) 2-Nitroaniline	6.69	65	961650	66.02 ppm		88
55) Dimethylphthalate	6.85	163	2943987	51.18 ppm		99
56) Acenaphthylene	6.98	152	4085377	49.04 ppm		99
57) 2,6-Dinitrotoluene	6.91	165	663146	53.34 ppm		81
58) 3-Nitroaniline	7.08	138	691729	44.45 ppm		79
59) Acenaphthene	7.15	153	2579604	49.30 ppm		92
60) 2,4-Dinitrophenol	7.18	184	835108	113.82 ppm	#	58
61) 4-Nitrophenol	7.29	109	578919	79.18 ppm		97
62) Dibenzofuran	7.33	168	3419573	47.88 ppm		96
63) 2,4-Dinitrotoluene	7.31	165	922703	54.77 ppm		73
64) 2,3,4,6-Tetrachlorophenol	7.47	232	646405	51.58 ppm		90
65) Diethylphthalate	7.59	149	3115122	54.80 ppm		99
66) Fluorene	7.71	166	2880357	52.41 ppm		100
67) 4-Chlorophenyl-phenylether	7.71	204	1255850	51.86 ppm		94
68) 4-Nitroaniline	7.76	138	703483	44.76 ppm		97
70) 4,6-Dinitro-2-methylphenol	7.78	198	559502	60.89 ppm		68
71) n-Nitrosodiphenylamine	7.86	169	2003026	48.11 ppm		98
72) 1,2-Diphenylhydrazine	7.91	77	3524111	61.25 ppm		91
74) 4-Bromophenyl-phenylether	8.35	248	720768	51.51 ppm		87
75) Hexachlorobenzene	8.43	284	727988	54.50 ppm		95
76) Pentachlorophenol	8.74	266	1028267	116.85 ppm		97
77) Phenanthrene	9.05	178	4061621	48.53 ppm		100
78) Anthracene	9.13	178	4115228	49.12 ppm		99
79) Carbazole	9.41	167	3807193	48.47 ppm		97
80) Di-n-butylphthalate	10.11	149	5378097	54.82 ppm		98
81) Fluoranthene	11.19	202	4293507	51.73 ppm		98

(#) = qualifier out of range (m) = manual integration

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156633.D Vial: 2
Acq On : 28 Apr 2016 9:08 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:28:47 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.90	57	1642789	48.24	ppm	90
84)	Pyrene	11.63	202	4487536	45.69	ppm	97
86)	Butylbenzylphthalate	13.23	149	2467994	51.16	ppm	88
87)	Butyl stearate	13.52	56	1157107	44.26	ppm	85
88)	Benzo[a]anthracene	14.25	228	4007439	47.78	ppm	100
89)	3,3'-Dichlorobenzidine	14.30	252	1520556	52.04	ppm	99
90)	Chrysene	14.34	228	3940975	47.26	ppm	99
91)	bis(2-Ethylhexyl)phthalate	14.64	149	3453830	51.66	ppm	95
93)	Di-n-octylphthalate	16.09	149	6092839	53.93	ppm	100
94)	Benzo[b]fluoranthene	16.57	252	4138460	51.93	ppm	99
95)	Benzo[k]fluoranthene	16.64	252	3894424	49.94	ppm	99
96)	Benzo[a]pyrene	17.21	252	3632989	49.81	ppm	100
97)	Indeno[1,2,3-cd]pyrene	19.26	276	3488392	51.83	ppm	99
98)	Dibenz(a,h)acridine	18.90	279	3133060	54.20	ppm	100
99)	Dibenz[a,h]anthracene	19.33	278	3529496	54.20	ppm	100
100)	7,12-Dimethylbenz(a)anthra	16.59	256	1790177	57.54	ppm	100
101)	Benzo[g,h,i]perylene	19.70	276	3767158	51.79	ppm	100

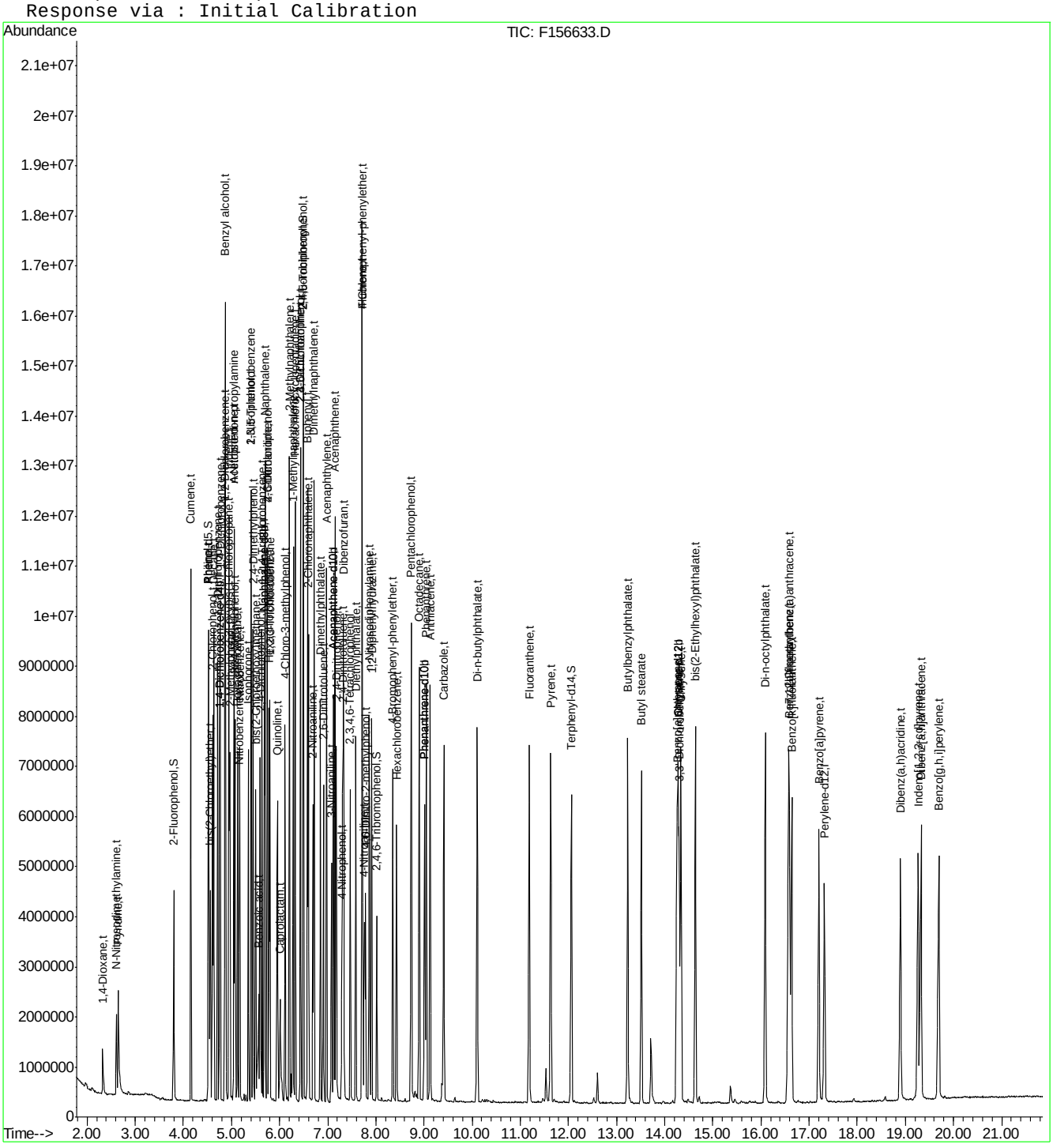
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156633.D Vial: 2
Acq On : 28 Apr 2016 9:08 pm Operator: juliusj
Sample : cc6563-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:29 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156634.D Vial: 3
Acq On : 28 Apr 2016 9:37 pm Operator: juliusj
Sample : cc6564-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:37:34 2016 Quant Results File: MF6563.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.75	152	426883	40.00	ppm	0.00
24) Naphthalene-d8	5.67	136	1713135	40.00	ppm	0.00
47) Acenaphthene-d10	7.11	164	1034954	40.00	ppm	0.00
69) Phenanthrene-d10	9.00	188	1735839	40.00	ppm	0.00
83) Chrysene-d12	14.26	240	1727998	40.00	ppm	-0.02
92) Perylene-d12	17.30	264	1677760	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4b	4.75	152	426883	40.00	ppm	0.00
104) Naphthalene-d8b	5.67	136	1713135	40.00	ppm	0.00
106) Acenaphthene-d10b	7.11	164	1034954	40.00	ppm	0.00
108) Phenanthrene-d10b	9.00	188	1735839	40.00	ppm	0.00
110) Chrysene-d12b	14.26	240	1727998	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	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) Benzaldehyde	4.43	105	508692	42.32	ppm	98
105) Hydroquinone	6.00	110	795745	56.92	ppm	95
107) 1,2,4,5-Tetrachlorobenzene	6.33	216	647317	44.96	ppm	97
109) Atrazine	8.61	200	476511	57.11	ppm	96
111) Benzidine	11.53	184	918038	30.57	ppm	98

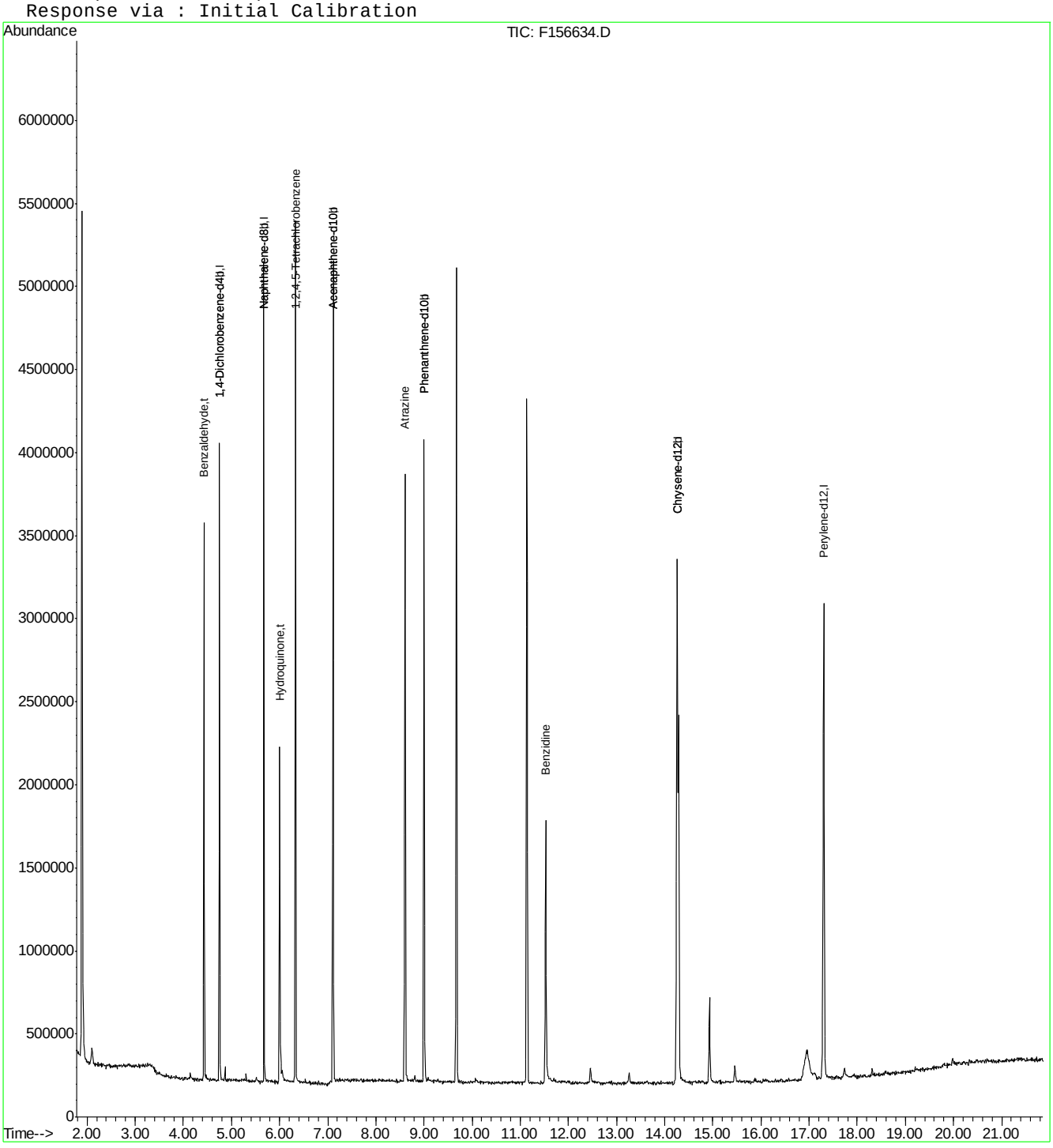
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156634.D Vial: 3
Acq On : 28 Apr 2016 9:37 pm Operator: juliusj
Sample : cc6564-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 11:38 2016 Quant Results File: MF6563.RES

Method : C:\MSDCHEM\1\METHODS\MF6563.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Apr 29 11:28:42 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/02/16 09:44

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156635.D Vial: 4
Acq On : 28 Apr 2016 10:05 pm Operator: juliusj
Sample : cc6566-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 09:36:58 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 26 12:25:11 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.76	152	419333	40.00	ppm	-0.05
24) Naphthalene-d8	5.68	136	1691317	40.00	ppm	-0.05
47) Acenaphthene-d10	7.11	164	1041265	40.00	ppm	-0.07
69) Phenanthrene-d10	9.00	188	1720709	40.00	ppm	-0.10
83) Chrysene-d12	14.26	240	1646844	40.00	ppm	-0.12
92) Perylene-d12	17.31	264	1520564	40.00	ppm	-0.12
102) 1,4-Dichlorobenzene-d4A	4.76	152	419333	40.00	ppm	-0.05
112) Naphthalene-d8A	5.68	136	1691317	40.00	ppm	-0.05
121) Acenaphthene-d10A	7.11	164	1041265	40.00	ppm	-0.07
132) Phenanthrene-d10A	9.00	188	1720709	40.00	ppm	-0.10
147) Chrysene-d12A	14.26	240	1646844	40.00	ppm	-0.12
155) Perylene-d12A	17.31	264	1520564	40.00	ppm	-0.12
159) 1,4-Dichlorobenzene-d4b	4.76	152	419333	40.00	ppm	-0.05
161) Naphthalene-d8b	5.68	136	1691317	40.00	ppm	-0.05
163) Acenaphthene-d10b	7.11	164	1041265	40.00	ppm	-0.07
165) Phenanthrene-d10b	9.00	188	1720709	40.00	ppm	-0.10
167) Chrysene-d12b	14.26	240	1646736	40.00	ppm	-0.12
169) 1,4-Dichlorobenzene-d4c	4.76	152	419333	40.00	ppm	-0.05
171) Naphthalene-d8c	5.68	136	1691317	40.00	ppm	-0.05
176) Chrysene-d12c	14.26	240	1646736	40.00	ppm	-0.12
178) Naphthalene-d8d	5.68	136	1691317	40.00	ppm	-0.05
180) Chrysene-d12B	14.26	240	1646736	40.00	ppm	-0.12

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

							Qvalue
103) 2-Picoline	3.28	93	776748	44.56	ppm		98
104) Pentachloroethane	4.55	167	281324	48.54	ppm		92
105) Methyl methanesulfonate	3.63	80	488214	55.65	ppm		90
106) N-Nitrosodiethylamine	3.94	102	330152	44.14	ppm		96
107) N-Nitrosomethylethylamine	3.38	42	318319	48.39	ppm		90
108) Ethyl methanesulfonate	4.18	79	571438	46.63	ppm		93
109) N-Nitrosopyrrolidine	5.03	41	283459m	50.42	ppm		
110) N-Nitrosomorpholine	5.06	56	427431	51.73	ppm		93
111) o-Toluidine	5.08	106	1071134	45.09	ppm	#	1
113) O,O,O-Triethyl phosphoroth	5.48	198	319193	46.11	ppm		93
114) N-Nitrosopiperidine	5.28	42	451962	49.58	ppm		90
116) Hexachloropropene	5.75	213	448217	55.19	ppm		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156635.D Vial: 4
Acq On : 28 Apr 2016 10:05 pm Operator: juliusj
Sample : cc6566-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: Apr 29 09:36:58 2016 Quant Results File: MF6563AP9.RES

Quant Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Apr 26 12:25:11 2016
Response via : Initial Calibration
DataAcq Meth : MF6563

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
118)	N-Nitrosodi-n-butylamine	5.97	84	531641	46.87	ppm		98
119)	Safrole	6.13	162	513188	45.23	ppm		89
120)	Isosafrole	6.54	162	399972	78.07	ppm		87
122)	Thionazin	7.67	143	198662	46.99	ppm		96
123)	Tetraethyl dithiopyrophosp	8.07	322	195306	54.17	ppm		100
124)	Phorate	8.25	75	1133019	49.81	ppm		100
125)	Phenacetin	8.29	108	908502	54.52	ppm		95
126)	1,4-Naphthoquinone	6.75	158	420626	56.55	ppm		93
127)	m-Dinitrobenzene	6.88	168	220457	46.86	ppm		92
128)	Pentachlorobenzene	7.28	250	507583	46.28	ppm		99
129)	1-Naphthylamine	7.41	143	1118000	45.54	ppm		93
130)	2-Naphthylamine	7.50	143	1271531	44.11	ppm		93
131)	5-Nitro-o-toluidine	7.73	152	407215	44.12	ppm		88
133)	Disulfoton	9.04	88	803015	43.11	ppm		94
134)	Dinoseb	9.02	211	371485	58.70	ppm		99
135)	Dimethoate	8.49	87	613152	45.23	ppm		90
136)	4-Aminobiphenyl	8.73	169	1393364	89.79	ppm		99
137)	Methyl parathion	9.67	125	450166	56.21	ppm		93
138)	Parathion	10.41	109	374825	55.28	ppm		99
139)	Diphenylamine	7.86	169	2224391	44.62	ppm		99
140)	Isodrin	10.88	193	249992	45.71	ppm		97
141)	Diallate	8.36	86	124141	40.73	ppm		90
142)	Pentachloronitrobenzene	8.74	295	142919	105.93	ppm		96
143)	Pronamide	8.85	173	719442	53.94	ppm		96
144)	4-Nitroquinoline 1-oxide	10.42	190	871992	192.88	ppm		86
146)	sym-Trinitrobenzene	8.21	213	169815	53.36	ppm	#	30
148)	Aramite	12.28	185	163532	115.87	ppm		99
149)	p-(Dimethylamine)azobenzen	12.37	120	785519	50.47	ppm		95
152)	2-Acetylaminofluorene	13.66	181	1072470	55.02	ppm		94
153)	3,3'-Dimethylbenzidine	13.12	212	304071	18.64	ppm		96
154)	Chlorobenzilate	12.52	251	637028	51.49	ppm		92
156)	4,4-Methylene-bis-(2-chlor	14.33	266	186842	39.54	ppm		100
157)	3-Methylcholanthrene	17.91	268	1020650	50.83	ppm		98

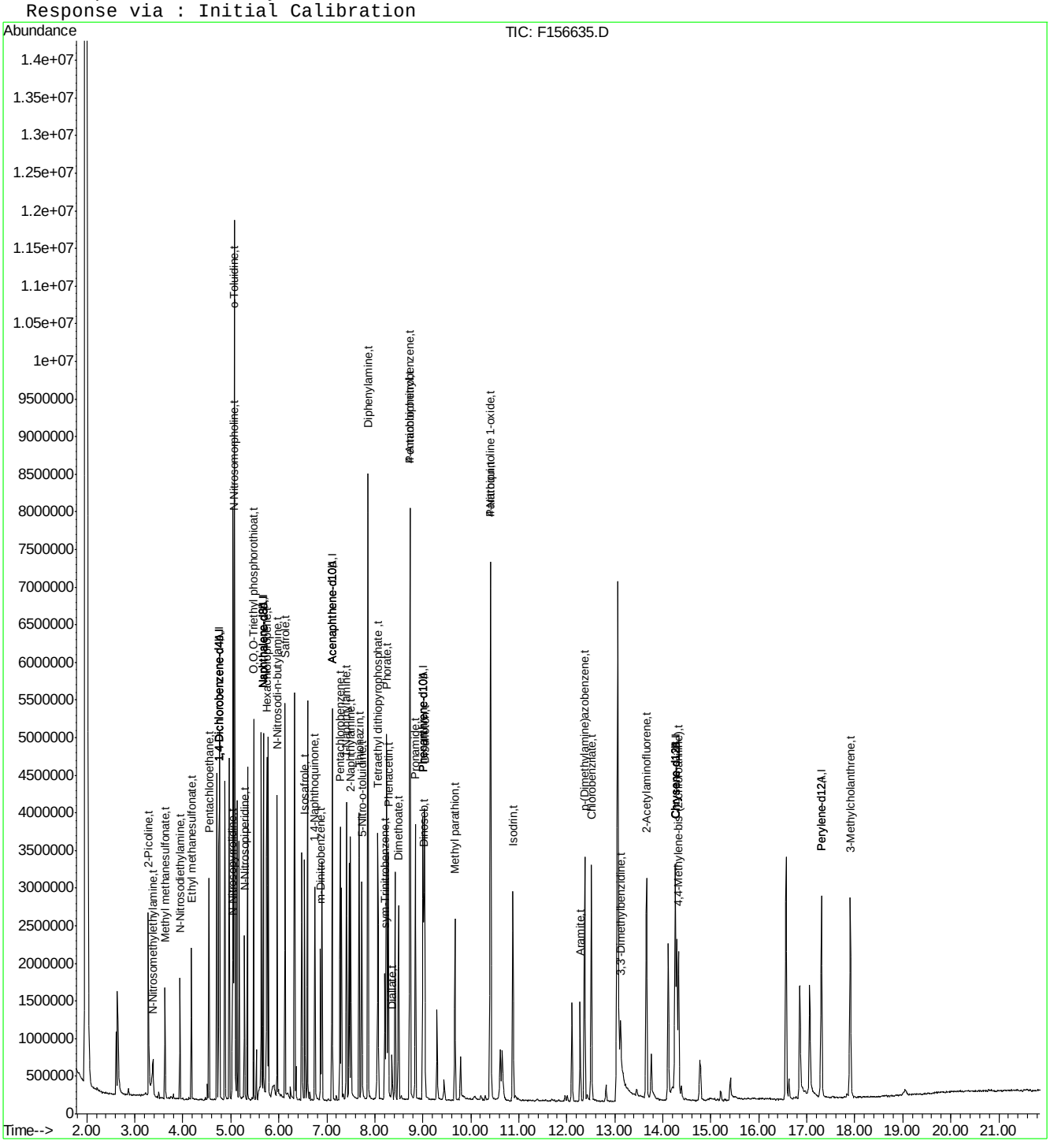
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156635.D Vial: 4
Acq On : 28 Apr 2016 10:05 pm Operator: juliusj
Sample : cc6566-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 8:04 2016 Quant Results File: MF6563AP9.RES

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 02 08:01:33 2016
Response via : Initial Calibration



F156635.D MF6563AP9.M Mon May 02 08:08:28 2016 RT1 Page 3

SGS ACCUTEST JC19214

Manual Integration Approval Summary

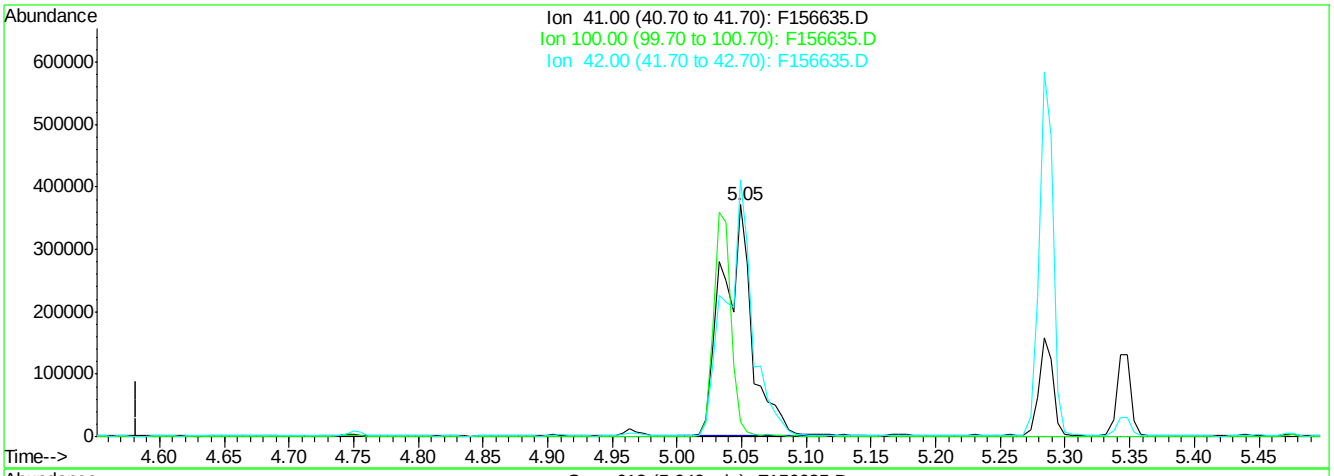
Sample Number:	EF6595-CC6566	**Method:**	SW846 8270D
Lab FileID:	F156635.D	**Analyst approved:**	05/02/16 08:08 Kristi Schollenberger
Injection Time:	04/28/16 22:05	**Supervisor approved:**	05/02/16 09:44 Nina Pandya

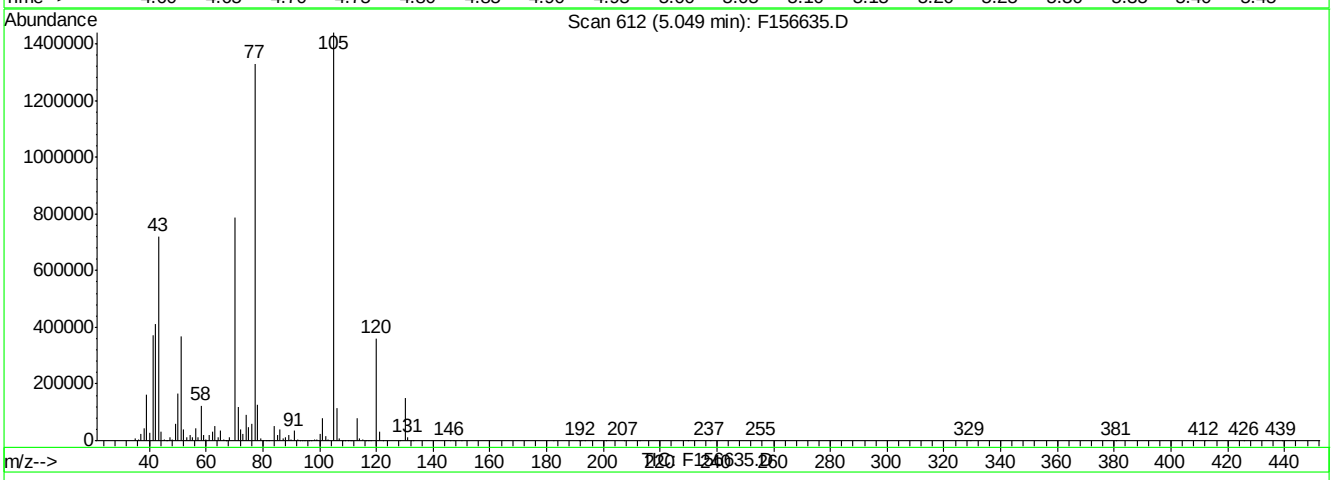
Parameter	CAS	Sig#	R.T. (min.)	Reason
N-Nitrosopyrrolidine	930-55-2		5.03	Overlapping peak

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156635.D Vial: 4
Acq On : 28 Apr 2016 10:05 pm Operator: juliusj
Sample : cc6565-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 7:39 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 02 07:45:08 2016
Response via : Multiple Level Calibration





(109) N-Nitrosopyrrolidine (t)

5.05min 106.36ppm

response 597891

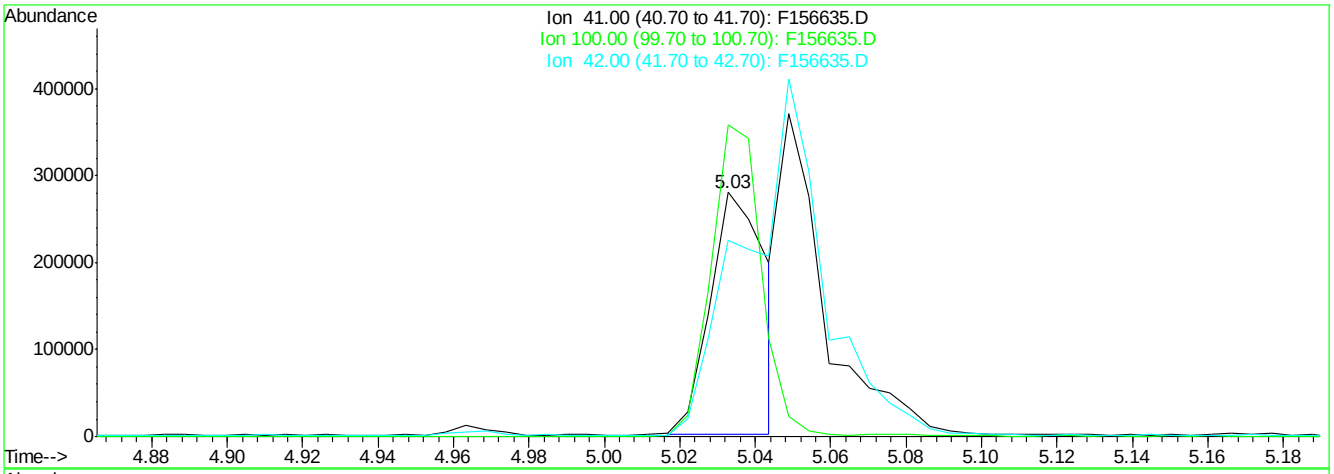
Ion	Exp%	Act%
41.00	100	100
100.00	171.00	6.29#
42.00	64.40	110.85#
0.00	0.00	0.00

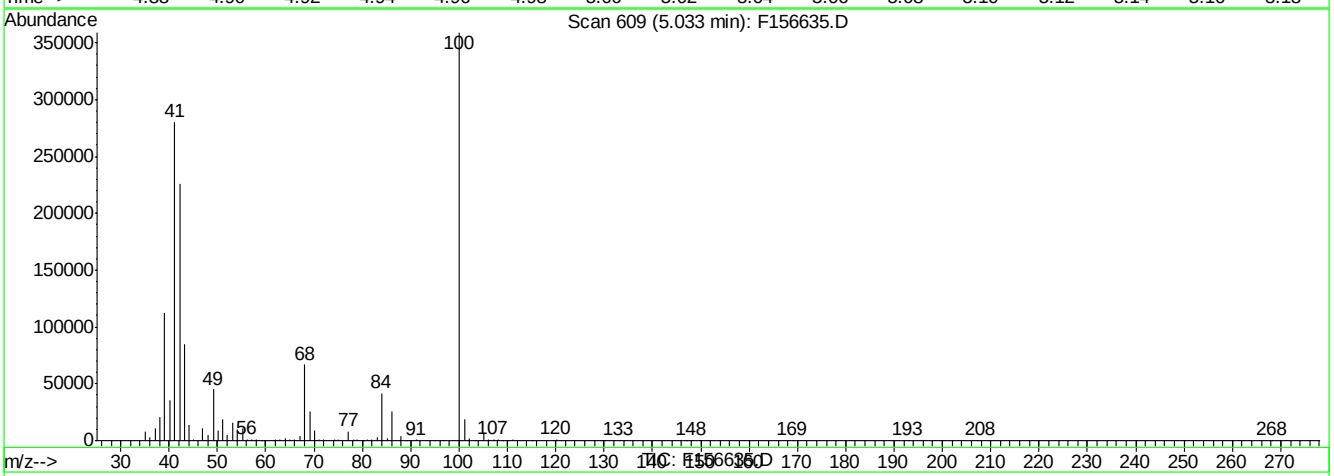
F156635.D MF6563AP9.M Mon May 02 07:47:40 2016 RT1

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EF6595\F156635.D Vial: 4
Acq On : 28 Apr 2016 10:05 pm Operator: juliusj
Sample : cc6565-50 Inst : MSF
Misc : op93412,ef6595 Multiplr: 1.00
MS Integration Params: LSCINT.P
Quant Time: May 2 7:47 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\MF6563AP9.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon May 02 07:45:08 2016
Response via : Multiple Level Calibration





(109) N-Nitrosopyrrolidine (t)

5.03min 50.42ppm m

response 283459

Ion	Exp%	Act%
41.00	100	100
100.00	171.00	127.94#
42.00	64.40	80.45
0.00	0.00	0.00

F156635.D MF6563AP9.M Mon May 02 07:47:48 2016 RT1

ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3M2855

Date: 4/21/16

Analyst Signature: [illegible]

Columns: Rxi-5SilMS 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M8M2855sim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
		4/21/16

Standard Data

Lot #	Description	Conc.
SVI51827-108	DFTPP	50ppm
SVI51827-103	SIM Internal	400ppm
159148	Dimethylsulfone	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 4-22-2016

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3m60750	Condition			W	100					Condition	
	60755				W	100						
	60760	Condition			W	99						
	60761	DFTPP ~~ICC2855-1.0~~ 4/21/16		4/21/16 ~~BRASIM~~	W	1					not	deg ↑ resistant
	60762	DFTPP			W	1					OK	1:31pm
	60763A	ICC2855-1.0			W	2					ok	SVI51827-104C non-A fluoranthene
	60764A	ic2855-0.5				3					ok	104D
	60765A	ic2855-0.2				4					OK	104E
	60766	ic2855-0.1				5					ok	104F
	60767	ic2855-0.05				6					OK	104G
	60768	ic2855-0.02				7					ok	104H
	60769	ic2855-0.01				8					ok	104I
	60770	ic2855-5.0				9					ok	104A
	60771	ic2855-2.5				10					OK	104B
	60772	icv2855-1.0		Acid		11					ok	SVI51827-27
	60773	icv2855-1.0		BN1		12					ok	OP16A12-28
	60774	icv2855-1.0		BN2		13					ok	SVI51829-85 8:35pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

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All strikeouts must be initialed, dated and reason code applied as follows:
1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR015-05
Rev. Date: 1/16/2006

7.7.1

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2867

Print Analyst Name: Ashley M. Dye

Analyst Signature: AMD

Date: 4/29/2016.

Columns: 2B5MS(1) 30m x 15mm x 25µ

Method 8270D/625

Initial Cal. Method M3M2855Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SHS82408	DFTPP	50ppm
SHH93598	Sim std.	5ppm
SH619357	sim internal	400ppm
162417	DCL (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 5-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M60963	DFTPP				1					OK	423AM
	60964	CC2855-5		BUASim	W	2					OK	acids ⊥ B only!
	60965	op93443mbl	934431	AB8270	W	3			J	J	OK	
	60966	-bs2		AMD 4/29/16		4			J	J	OK	
	60967	JC19214-1		BSIMIADIX +nap		5			J	J	OK	
	60968	-2				6			J	J	OK	
	60969	op93443ms		B8270		7			J	J	OK	
	60970	-msd				8			J	J	OK	
	60971	JC19069-1		BSIMSL		9			J	J	OK	
	60972	-2				10			J	J	OK	
	60973	-3				11			J	J	OK	
	60974	-4				12			J	J	OK	
	60975	-5				13			J	J	OK	
	60976	-6				14			J	J	OK	
	60977	-7				15			J	J	OK	
	60978	-8				16			J	J	OK	
	60979	-9				17			J	J	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.2

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2867

Print Analyst Name: Ashley M. Dye

Date: 4/29/2016

Analyst Signature: AMD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Sreprage 11	

Columns: 2B5ms @ 30m x 15mm x 15µm

Method 8270D/625

Initial Cal. Method M3M2855sim

Injection Volume: 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: 5-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M60980	JC19069-10	934431	BSIMS	W	18			/	/	OK	
	60981	-11				19			/	/	OK	
	60982	-12				20			/	/	OK	
	60983	-13				21			/	/	OK	
	60984	-14				22			/	/	OK	
	60985	-15				23			/	/	OK	9:00pm
	60986	-16				24			/		N	at at clock 9:31pm AMD 5/2/16

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.2

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6563

Print Analyst Name: Linsey

Analyst Signature: [signature]

Date: 4/4/16

Columns: ZB-5ms Plus ~~Rtx-5Sil MS~~ 30m x .25mm x .25um 7/14/16

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SV151827-60A	BNA	100 ppm
-60B	↓	80
-60C		50
-60D		25
-60E		10
-60F	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151629-10B	DFTPP	50 ppm
SV151827-60H	BNA	2 ppm
-60I	↓	1 ↓
CMS832	Internal Std.	40ppm
K2107	DCM-Fisher's	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F151036	Condition			W	100					Condition	
	156045	Condition			W	100					↓	
	156046	condition				99						
	↓ 156048	↓				↓					Not run	sequence changed
	156049	DFTPP			W	1					NG	51↓, reinject
	156050	DFTPP			W	1					OK	
	156051	IC6563-100		BNA		2					OK	
	156052	-80				3					OK	
	156053	IC6563-50				4					OK	
	156054	IC6563-25				5					OK	
	156055	-10				6					OK	
	156056	-5				7					OK	
	156057	-2				8					OK	
	156058	-1				9					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.3

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6564

Print Analyst Name: Sara Davis

Analyst Signature: SED

Date: 4/4/2016

Columns: ZB-5msplus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.
SV151827-73A	TCL42	100 ppm
-73B	↓	80 ↓
-73C		50
-73D		25
-73E		10
-73G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-103	DFTPP	50 ppm
SV151827-73 II	TCL42	2 ppm
-73 I	↓	1 ↓
CM5732	Internal Std	4000 ppm
162107	Dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO Date: 4/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156059	DFTPP			W	1					OK	11:06 pm
	156060	TCL6564-100		TCL42	W	2					OK	
	156061	-80				3					OK	
	156062	TCL6564-50				4					OK	
	156063	TCL6564-25				5					OK	
	156064	-10				6					OK	
	156065	-5				7					OK	
	156066	-2				8					OK	
	156067	-1				9					OK	
	156068	TCV6563-50		Acids		10					rr	SV151827-79
	156069	-50		Aniline		11					OK	-78
	156070	-50		ABN sicc		12					OK	OP161712 33
	156071	-50		BN1		13					OK	SV151827-88
	156072	-50		BN2		14					OK	-80
	156073	TCV6564-50		Benzidine 3rd		15					OK	-38F
	~~156073~~											
	SD 2 4/4/16											

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.4

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6566

Print Analyst Name: LinseyK

Analyst Signature: LK

Date: 4/5/16

Columns: RTX-5SILMS 30m x .25mm x .25um 2nd 5MS PLUS

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM51824-48	DFTPP	50ppm
CM5732	Internal Std.	40ug/ml
162107	DCM (Chloride)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F56079	DFTPP			W	1					[initials]	1.58ppm
	156080	ICV6560-100		APH	W	2					[initials]	SM51829-118A
	156081	-80				3					[initials]	-118B
	156082	ICV6560-50				4					[initials]	SM51827-85A
	156083	ICV6560-25				5					[initials]	-85B
	156084	-10				6					[initials]	SM51829-118E
	156085	-5				7					[initials]	-118G
	156086	-2				8					[initials]	-118H
	156087	-1				9					[initials]	-118I

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

7.7.5

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Columns: ZB-5ms Plus 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: µL

Standard Data

Lot #	Description	Conc.
SV151827-96A	AP9SL	100 ppm
-96B	↓	80 ↓
-96C		50
-96D		25
-96E		10
-96G	↓	5 ↓

Standard Data

Lot #	Description	Conc.
SV151829-108	DFTPP	50 ppm
SV151827-96H	AP9SL	2 ppm
-96I	↓	1 ↓
CM-5732	Internal Std	4000 ppm
162107	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156088	DFTPP				1					ok	6.00pm
	156089	ic6567-100		AP9SL		2					ok	
	156090	-80				3					ok	
	156091	icc6567-50				4					ok	
	156092	ic6567-25				5					ok	
	156093	-10				6					ok	
	156094	-5				7					ok	
	156095	-2				8					ok	
	156096	-1				9					ok	
	156097	icv6564-50		HQ		10					ok	SV151827-98D
	156098	icv6567-50		m-toluidine		11					ok	OP151624123
	156099	-50		Catechol		12					ok	OP151624 8
	156100	-50		12NB		13					ok	SV151827-99
	156101	-50		2+3CA		14					ok	SV151827-100
	156102	icv6566-50		AP9 2nd		15					ok	OP161712-36
	156103	-50		Methapyrilene 3rd		16					not used	SV151829-128A not needed
	156104	-50		Hexachlorophene 2nd		17					ok	-56

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC19214

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6567

Print Analyst Name: Sara Davis

Date: 4/5/2016

Analyst Signature: SED

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 109	

Columns: ZB-5ms plus 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method MF6563

Injection Volume: 1 ul

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 4-5-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156105	ICV6566-50		APA Megamix 2nd		18						SV151829-68
	156106	-50		APA 3rd		19						-122A

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.6

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6595

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 4/28/16

Columns: ZB-5MS+30m*.25mm*.25µm

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.
CM5732	IS	4000ppm

Standard Data

Lot #	Description	Conc.
SV151827-48	DFTPP	50ppm
SV151827-48B	BNA	50ppm
SV151827-74C	TCL42	50ppm
SV151827-85A	AP9	50ppm
-62H	BNA Verf. -1ppm	1ppm
IC2489	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: AMW

Date: 5/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	F156632	DFTPP				1					OK	8:23pm
	156633	CC6563-50		BNA		2					OK	34↓
	156634	CC6564-50		TCL42		3					OK	
	156635	CC65~~63~~-50	5/2/16	AP9		4					OK	
	156636	BNA Verf.-1ppm				5					OK	
	156637	~~TCL42 Verf.-1ppm~~ OP93443-MB1	93443	ABS270	W	6		+	✓	✓	OK 4/28/16 JMJ	~~AB170~~
	156638	OP93443-BS1				7			✓	✓	OK	
	156639	-MS				8			✓	✓	OK	
	156640	-MSD				9			✓	✓	OK	
	156641	JC19214-1		ABSL/20MNAP/MNAP		10			✓	✓	OK	
	156642	JC19214-2		↓		11			✓	✓	OK	
	156643	JC19070-3		ABTCL20+		12		+	✓	✓	OK	
	156644	JC19069-1		BBis2E		13			✓	✓	OK	
	156645	-2				14			✓	✓	OK	
	156646	-3				15			✓	✓	OK	
	156647	-4				16			✓	✓	OK	
	156648	-5		↓		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: QR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EF6595

Print Analyst Name: Julius Johnson

Analyst Signature: JMJ

Date: 4/28/16

Columns: ZB5MS + 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 5	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5/2/16

R	Data File	Sample ID 4/28/16	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	F156649	JC19069-6	93443	BB152E	W	18			✓	✓	OK	
	156650	-7				19			✓	✓	OK	
	156651	-8				20			✓	✓	OK	
	156652	-9				21			✓	✓	OK	
	156653	-10				22			✓	✓	OK	
	156654	-11				23			✓	✓	OK	
	156655	-12				24			✓	✓	OK	801am.
	156656	-13				25					not using	830am. outside 12hrs. RR
	156657	-14				26						
	156658	-15				27						
	156659	-16				28					not an	outside 12hrs.
	156660	OP93417-MB1	93417	AB625	W	29			✓	✓	OK	
	156661	-BS1				30			✓	✓	OK	
	156662	-BS13				31			✓	✓	OK	
	156663	-MS				32			✓	✓	OK	
	156664	-MSD				33			✓	✓	OK	
	156665	JC19047-3		AB625 + NDIEPH, + NAPHTHO + PCBAZ)		34			✓	✓	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 EF6595

Print Analyst Name: Julia M. Johnson

Date: 4/28/16

Analyst Signature: JMJ

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 5	

Columns: ZB5ms+30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MF6563

Injection Volume: 1µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMC

Date: 5/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
F	156666	JC19048-3	93443	ABSL3 Ams+PN	W	35			✓	✓		
R	156667	JC18922-1	933591	ABPPL	W	36	2		✓	✓	OK	Vf=10mL
R	156668	-1				37	50		✓	✓	OK	Vf=10mL
	156669	JC18871-1		ABPPL	W	38	5		✓	✓	OK	221 212PM. VT 1.25 AMC 04/29/16
												AMC

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: QR015-07
Rev. Date: 1/19/16

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LOGBOOK ID: 6-1973

ABN Aqueous Extraction Logbook

Date Started: 04.28.16 Time Started: 8:00AM
Date Finished: 04.28.16 Time Finished: 1455

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 93443	RACK# A-15
Extracted by:	YB, NG, ENC, VP, MoP
Concentrated by:	MoP
Vialed by:	YB, NG
Relinquished by:	
Accepted by:	
Supervisor Review:	4/29/16

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		DI H2O	1000	1	4	clear	1		
BS1			DI H2O	1000	1	4	Yellow	1		
JC19069-1 MS		2	ORANGE	500	1	4	Yellow	1		
MSD		2	ORANGE	500	1	4	Yellow	1		
BS			DI H2O	1000	1	4	Yellow	1		
JC19069-2 MS		2	LT YELLOW	500	1	4	Yellow	1		
MSD		2	LT YELLOW	500	1	4	Yellow	1		
1 JC19069-1	ABN	1	ORANGE	1000	1	4	Yellow	1		
2 -2		1	LT YELLOW	1000	1	4	Yellow	1		
3 -3		2	LT YELLOW	1000	1	4	Yellow	1		
4 -4		1	LT YELLOW	1000	1	4	Yellow	1		
5 -5		1	LT YELLOW	1000	1	4	Brown	1		
6 -6		1	LT BROWN	900	1	4	Brown	1		
7 -7		1	CLEAR	930	1	4	Yellow	1		
8 -8		2	CLEAR	1000	1	4	Yellow	1		
9 -9		2	LT YELLOW	1000	1	4	Clear	1		
10 -10		1	LT YELLOW	1000	1	4	Yellow	1		
11 -11		1	CLEAR	1000	1	4	Brown	1		
12 -12		1	CLEAR	900	1	4	clear	1		
13 -13		1	CLEAR	950	1	4	Yellow	1		
14 -14		2	CLEAR	1000	1	4	clear	1		
15 -15		2	CLEAR	900	1	4	Brown	1		
16 -16		2	CLEAR	1000	1	4	Clear	1		
17 JC19070-3		1	CLEAR	1000	1	4	Clear	1		
18 JC19214-1		1	DARK BROWN	500	1	4	Yellow	1		
19 -2		1	LT BROWN	900	1	4	Yellow	1		
20										

1 day TAT

Comments: Okay to split ms/msd sim ms/msd not enough bottles.

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	0.5,0.1	76,76	N/A
Waterbath Chiller (GPM)	F2	6	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16171378	50	1

WITNESS SIGN: NG SPIKE SIGN: ENC

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	151827-129	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	161935-1	50	1
Base #2	151827-134	50	1
Anilines	151827115	50	1
BSIM	16171266	1	1

WITNESS SIGN: NG SPIKE SIGN: ENC

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162417	Fisher	60MLx6

REAGENT	LOT #	BRAND
NaOH	153603	Fisher
H2SO4	2601910	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	62005-2	lab
Filter Paper		
pH strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1973

ABN Aqueous Extraction Logbook

Date Started: 04.28.16 Time Started: 8:00AM
Date Finished: 04.28.16 Time Finished: 1455

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 93443	RACK# A-15
Extracted by:	YB, NG, ENC, VP, MoP
Concentrated by:	MoP
Vialed by:	YB, NG
Relinquished by:	
Accepted by:	
Supervisor Review:	4/29/16

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		DI H2O	1000	1	4	clear	1		
BS1			DI H2O	1000	1	4	Yellow	1		
JC19069-1 MS		2	ORANGE	500	1	4	Yellow	1		
MSD		2	ORANGE	500	1	4	Yellow	1		
BS	[redacted]		DI H2O	1000	1	4	Yellow	1		
JC19069-2 MS		2	LT YELLOW	500	1	4	Yellow	1		
MSD		2	LT YELLOW	500	1	4	Yellow	1		
1 JC19069-1	ABN	1	ORANGE	1000	1	4	Yellow	1		
2 -2		1	LT YELLOW	1000	1	4	Yellow	1		
3 -3		2	LT YELLOW	1000	1	4	Yellow	1		
4 -4		1	LT YELLOW	1000	1	4	Yellow	1		
5 -5		1	LT YELLOW	1000	1	4	Brown	1		
6 -6		1	LT BROWN	900	1	4	Brown	1		
7 -7		1	CLEAR	930	1	4	Yellow	1		
8 -8		2	CLEAR	1000	1	4	Yellow	1		
9 -9		2	LT YELLOW	1000	1	4	Clear	1		
10 -10		1	LT YELLOW	1000	1	4	Yellow	1		
11 -11		1	CLEAR	1000	1	4	Brown	1		
12 -12		1	CLEAR	900	1	4	clear	1		
13 -13		1	CLEAR	950	1	4	Yellow	1		
14 -14		2	CLEAR	1000	1	4	clear	1		
15 -15		2	CLEAR	900	1	4	Brown	1		
16 -16		2	CLEAR	1000	1	4	Clear	1		
17 JC19070-3		1	CLEAR	1000	1	4	Clear	1		
18 JC19214-1		1	DARK BROWN	500	1	4	Yellow	1		
19 -2		1	LT BROWN	900	1	4	Yellow	1		
20										

1 day TAT

Comments: Okay to split ms/msd sim ms/msd not enough bottles.

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	0.5,0.1	76,76	N/A
Waterbath Chiller (GPM)	F2	6	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16171378	50	1

WITNESS SIGN: NG SPIKE SIGN: ENC

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	151827-129	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	161935-1	50	1
Base #2	151827-134	50	1
Anilines	151827115	50	1
BSIM	16171266	1	1

WITNESS SIGN: NG SPIKE SIGN: ENC

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162417	Fisher	60MLx6

REAGENT	LOT #	BRAND
NaOH	153603	Fisher
H2SO4	2601910	Ricca
Sodium Sulfate	158459	Fisher
Glass Wool	62005-2	lab
Filter Paper		
pH strips		

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

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
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93460-MB1	1G122602.D	1	04/29/16	BP	04/28/16	OP93460	G1G3976

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19214-1, JC19214-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0067	0.0040	ug/l	
319-84-6	alpha-BHC	ND	0.0067	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.0067	0.0038	ug/l	
319-86-8	delta-BHC	ND	0.0067	0.0030	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0067	0.0019	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0067	0.0031	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0067	0.0031	ug/l	
60-57-1	Dieldrin	ND	0.0067	0.0024	ug/l	
72-54-8	4,4'-DDD	ND	0.0067	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.0067	0.0041	ug/l	
50-29-3	4,4'-DDT	ND	0.0067	0.0033	ug/l	
72-20-8	Endrin	ND	0.0067	0.0034	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0067	0.0035	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0067	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0067	0.0034	ug/l	
959-98-8	Endosulfan-I	ND	0.0067	0.0033	ug/l	
33213-65-9	Endosulfan-II	ND	0.0067	0.0029	ug/l	
76-44-8	Heptachlor	ND	0.0067	0.0025	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0067	0.0044	ug/l	
72-43-5	Methoxychlor	ND	0.013	0.0038	ug/l	
8001-35-2	Toxaphene	ND	0.17	0.12	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	93%	26-132%
877-09-8	Tetrachloro-m-xylene	88%	26-132%
2051-24-3	Decachlorobiphenyl	61%	10-118%
2051-24-3	Decachlorobiphenyl	58%	10-118%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP93460-BS1	1G122603.D	1	04/29/16	BP	04/28/16	OP93460	G1G3976
OP93460-BSD	1G122606.D	1	04/29/16	BP	04/28/16	OP93460	G1G3976

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC19214-1, JC19214-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.167	0.12	72	0.14	84	15	38-138/30
319-84-6	alpha-BHC	0.167	0.13	78	0.14	84	7	51-144/30
319-85-7	beta-BHC	0.167	0.13	78	0.15	90	14	55-137/30
319-86-8	delta-BHC	0.167	0.14	84	0.16	96	13	33-148/30
58-89-9	gamma-BHC (Lindane)	0.167	0.13	78	0.14	84	7	53-142/30
5103-71-9	alpha-Chlordane	0.167	0.12	72	0.14	84	15	52-137/30
5103-74-2	gamma-Chlordane	0.167	0.13	78	0.14	84	7	52-140/30
60-57-1	Dieldrin	0.167	0.13	78	0.15	90	14	54-144/30
72-54-8	4,4'-DDD	0.167	0.12	72	0.14	84	15	46-151/30
72-55-9	4,4'-DDE	0.167	0.12	72	0.14	84	15	51-142/30
50-29-3	4,4'-DDT	0.167	0.16	96	0.18	108	12	53-158/30
72-20-8	Endrin	0.167	0.13	78	0.15	90	14	53-149/30
1031-07-8	Endosulfan sulfate	0.167	0.14	84	0.16	96	13	49-148/30
7421-93-4	Endrin aldehyde	0.167	0.13	78	0.14	84	7	45-137/30
53494-70-5	Endrin ketone	0.167	0.16	96	0.17	102	6	48-142/30
959-98-8	Endosulfan-I	0.167	0.12	72	0.14	84	15	54-139/30
33213-65-9	Endosulfan-II	0.167	0.13	78	0.14	84	7	54-142/30
76-44-8	Heptachlor	0.167	0.13	78	0.15	90	14	45-137/30
1024-57-3	Heptachlor epoxide	0.167	0.13	78	0.15	90	14	54-140/30
72-43-5	Methoxychlor	0.167	0.15	90	0.17	102	13	51-157/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	81%	84%	26-132%
877-09-8	Tetrachloro-m-xylene	78%	83%	26-132%
2051-24-3	Decachlorobiphenyl	69%	82%	10-118%
2051-24-3	Decachlorobiphenyl	65%	79%	10-118%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3976-CC3973	**Injection Date:**	04/29/16
Lab File ID:	1G122600.D	**Injection Time:**	08:23
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	909186941	1.53	59396144	1.16
Upper Limit [a]	1818373882	2.03	118792288	1.66
Lower Limit [b]	454593471	1.03	29698072	0.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP93460-MB1	875824296	1.53	58147824	1.16
OP93460-BS1	954002979	1.53	61998270	1.16
OP93471-MB1	979316705	1.53	68301384	1.16
OP93471-BS1	884349290	1.53	61412168	1.16
OP93460-BSD	927511268	1.53	59910812	1.16
JC19214-1	900462100	1.53	58183006	1.16
JC19214-2	901275000	1.53	58992660	1.16
ZZZZZZ	693951949	1.53	61467528	1.16
ZZZZZZ	844283221	1.53	57943488	1.16
ZZZZZZ	972331056	1.53	67877203	1.16
ZZZZZZ	883083200	1.53	61323120	1.17
ZZZZZZ	948223992	1.53	65633045	1.16
ZZZZZZ	915118412	1.53	62921256	1.16
JC19164-5	979604507	1.53	65789185	1.16
ZZZZZZ	907582045	1.53	62844145	1.16
OP93471-MS	954388000	1.53	66473745	1.16
OP93471-MSD	897117609	1.53	62055949	1.16

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.

GC Identification Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3976-CC3973	**Injection Date:**	04/29/16
Lab File ID:	1G122600.D	**Injection Time:**	08:23
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP93460-BS1	**Injection Date:**	04/29/16
Lab File ID:	1G122603.D	**Injection Time:**	09:15
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	3.30	3.30	0.13		ug/l	8.0
Aldrin	2 [a]	4.49	4.49	0.12		ug/l	
alpha-BHC	1	2.22	2.21	0.13		ug/l	0.0
alpha-BHC	2 [a]	3.04	3.04	0.13		ug/l	
beta-BHC	1	2.59	2.58	0.14		ug/l	7.4
beta-BHC	2 [a]	3.56	3.56	0.13		ug/l	
delta-BHC	1	2.76	2.76	0.14		ug/l	0.0
delta-BHC	2 [a]	3.95	3.95	0.14		ug/l	
gamma-BHC (Lindane)	1	2.51	2.50	0.13		ug/l	0.0
gamma-BHC (Lindane)	2 [a]	3.47	3.47	0.13		ug/l	
alpha-Chlordane	1	4.31	4.31	0.13		ug/l	8.0
alpha-Chlordane	2 [a]	5.82	5.82	0.12		ug/l	
gamma-Chlordane	1	4.15	4.15	0.13		ug/l	0.0
gamma-Chlordane	2 [a]	5.60	5.60	0.13		ug/l	
Dieldrin	1	4.80	4.80	0.13		ug/l	0.0
Dieldrin	2 [a]	6.35	6.35	0.13		ug/l	
4,4'-DDD	1	5.26	5.25	0.13		ug/l	8.0
4,4'-DDD	2 [a]	7.05	7.05	0.12		ug/l	
4,4'-DDE	1	4.43	4.43	0.14		ug/l	15.4
4,4'-DDE	2 [a]	6.09	6.09	0.12		ug/l	
4,4'-DDT	1 [a]	5.66	5.65	0.16		ug/l	0.0
4,4'-DDT	2	7.58	7.58	0.16		ug/l	
Endrin	1	5.11	5.11	0.14		ug/l	7.4
Endrin	2 [a]	6.86	6.86	0.13		ug/l	
Endosulfan sulfate	1	6.73	6.73	0.15		ug/l	6.9
Endosulfan sulfate	2 [a]	8.25	8.25	0.14		ug/l	
Endrin aldehyde	1	6.06	6.05	0.14		ug/l	7.4
Endrin aldehyde	2 [a]	7.78	7.78	0.13		ug/l	
Endrin ketone	1	7.16	7.16	0.16		ug/l	0.0
Endrin ketone	2 [a]	9.22	9.21	0.16		ug/l	
Endosulfan-I	1 [a]	4.49	4.48	0.12		ug/l	0.0
Endosulfan-I	2	5.92	5.92	0.12		ug/l	
Endosulfan-II	1	5.44	5.43	0.14		ug/l	7.4
Endosulfan-II	2 [a]	7.21	7.21	0.13		ug/l	
Heptachlor	1	2.98	2.98	0.13		ug/l	0.0
Heptachlor	2 [a]	4.04	4.04	0.13		ug/l	
Heptachlor epoxide	1	3.99	3.99	0.13		ug/l	0.0
Heptachlor epoxide	2 [a]	5.31	5.31	0.13		ug/l	
Methoxychlor	1	6.44	6.44	0.16		ug/l	6.5
Methoxychlor	2 [a]	8.83	8.83	0.15		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3976-CC3973	**Injection Date:**	04/29/16
Lab File ID:	1G122600.D	**Injection Time:**	08:23
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP93460-BSD	**Injection Date:**	04/29/16
Lab File ID:	1G122606.D	**Injection Time:**	10:08
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	3.30	3.30	0.14		ug/l	0.0
Aldrin	2 [a]	4.49	4.49	0.14		ug/l	
alpha-BHC	1	2.22	2.21	0.15		ug/l	6.9
alpha-BHC	2 [a]	3.04	3.04	0.14		ug/l	
beta-BHC	1	2.59	2.58	0.16		ug/l	6.5
beta-BHC	2 [a]	3.56	3.56	0.15		ug/l	
delta-BHC	1	2.77	2.76	0.16		ug/l	0.0
delta-BHC	2 [a]	3.95	3.95	0.16		ug/l	
gamma-BHC (Lindane)	1	2.50	2.50	0.15		ug/l	6.9
gamma-BHC (Lindane)	2 [a]	3.47	3.47	0.14		ug/l	
alpha-Chlordane	1	4.31	4.31	0.14		ug/l	0.0
alpha-Chlordane	2 [a]	5.82	5.82	0.14		ug/l	
gamma-Chlordane	1	4.15	4.15	0.15		ug/l	6.9
gamma-Chlordane	2 [a]	5.60	5.60	0.14		ug/l	
Dieldrin	1	4.80	4.80	0.15		ug/l	0.0
Dieldrin	2 [a]	6.35	6.35	0.15		ug/l	
4,4'-DDD	1	5.26	5.25	0.15		ug/l	6.9
4,4'-DDD	2 [a]	7.05	7.05	0.14		ug/l	
4,4'-DDE	1	4.44	4.43	0.16		ug/l	13.3
4,4'-DDE	2 [a]	6.09	6.09	0.14		ug/l	
4,4'-DDT	1 [a]	5.66	5.65	0.18		ug/l	0.0
4,4'-DDT	2	7.58	7.58	0.18		ug/l	
Endrin	1	5.11	5.11	0.16		ug/l	6.5
Endrin	2 [a]	6.86	6.86	0.15		ug/l	
Endosulfan sulfate	1	6.73	6.73	0.17		ug/l	6.1
Endosulfan sulfate	2 [a]	8.25	8.25	0.16		ug/l	
Endrin aldehyde	1	6.06	6.05	0.16		ug/l	13.3
Endrin aldehyde	2 [a]	7.78	7.78	0.14		ug/l	
Endrin ketone	1	7.16	7.16	0.18		ug/l	5.7
Endrin ketone	2 [a]	9.22	9.21	0.17		ug/l	
Endosulfan-I	1 [a]	4.49	4.48	0.14		ug/l	0.0
Endosulfan-I	2	5.92	5.92	0.14		ug/l	
Endosulfan-II	1	5.44	5.43	0.15		ug/l	6.9
Endosulfan-II	2 [a]	7.21	7.21	0.14		ug/l	
Heptachlor	1	2.98	2.98	0.15		ug/l	0.0
Heptachlor	2 [a]	4.04	4.04	0.15		ug/l	
Heptachlor epoxide	1	3.99	3.99	0.15		ug/l	0.0
Heptachlor epoxide	2 [a]	5.31	5.31	0.15		ug/l	
Methoxychlor	1	6.44	6.44	0.19		ug/l	11.1
Methoxychlor	2 [a]	8.83	8.83	0.17		ug/l	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC19214
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]
JC19214-1	1G122607.D	80	78	41	40
JC19214-2	1G122608.D	82	81	40	40
OP93460-BS1	1G122603.D	81	78	69	65
OP93460-BSD	1G122606.D	84	83	82	79
OP93460-MB1	1G122602.D	93	88	61	58

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-132%
S2 = Decachlorobiphenyl	10-118%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G3976-CC3973	**Injection Date:**	04/29/16
Lab File ID:	1G122600.D	**Injection Time:**	08:23
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.75	2.37	8.94	10.86

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP93460-MB1	1G122602.D	04/29/16	08:58	1.75	2.37	8.94	10.86
OP93460-BS1	1G122603.D	04/29/16	09:15	1.75	2.37	8.94	10.86
OP93471-MB1	1G122604.D	04/29/16	09:33	1.75	2.37	8.94	10.86
OP93471-BS1	1G122605.D	04/29/16	09:50	1.75	2.37	8.94	10.86
OP93460-BSD	1G122606.D	04/29/16	10:08	1.75	2.37	8.94	10.86
JC19214-1	1G122607.D	04/29/16	10:25	1.75	2.37	8.94	10.86
JC19214-2	1G122608.D	04/29/16	10:43	1.75	2.37	8.94	10.86
ZZZZZZ	1G122611.D	04/29/16	11:35	1.75	2.37	8.93	10.86
ZZZZZZ	1G122612.D	04/29/16	11:53	1.75	2.37	8.93	10.86
ZZZZZZ	1G122613.D	04/29/16	12:10	1.75	2.37	8.93	10.86
ZZZZZZ	1G122614.D	04/29/16	12:42	1.75	2.38	8.95	10.87
ZZZZZZ	1G122615.D	04/29/16	12:59	1.75	2.37	8.94	10.86
ZZZZZZ	1G122616.D	04/29/16	13:17	1.75	2.37	8.93	10.86
JC19164-5	1G122617.D	04/29/16	13:34	1.75	2.37	8.93	10.86
ZZZZZZ	1G122618.D	04/29/16	13:52	1.75	2.38	8.93	10.86
OP93471-MS	1G122619.D	04/29/16	14:09	1.75	2.37	8.93	10.86
OP93471-MSD	1G122620.D	04/29/16	14:27	1.75	2.38	8.93	10.86

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: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3973-ICC3973
Lab FileID: 1G122529.D

Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration

Calibration Files
2 =1G122526.D 5 =1G122527.D 10 =1G122528.D 25 =1G122529.D
50 =1G122530.D 100 =1G122532.D 1 =1G122525.D 75 =1G122531.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.085	1.004	1.014	1.029	1.009	1.029	1.202	1.009	1.048	6.44
3) alpha-BHC	1.181	1.167	1.173	1.275	1.360	1.525	1.170	1.436	1.286	10.87
4) gamma-BHC	1.162	1.129	1.141	1.236	1.300	1.435	1.208	1.358	1.246	8.82
5) Heptachlor	1.306	1.279	1.275	1.357	1.397	1.498	1.354	1.438	1.363	5.76
6) beta-BHC	0.586	0.602	0.591	0.604	0.601	0.641	0.676	0.607	0.613	4.93
7) delta-BHC	0.883	0.959	1.000	1.050	1.145	1.290	0.918	1.205	1.056	13.69
8) Aldrin	1.262	1.210	1.230	1.310	1.363	1.477	1.328	1.413	1.324	6.92
9) Heptachlor E	1.268	1.278	1.297	1.359	1.360	1.432	1.248	1.383	1.328	4.87
10) gamma-Chlord	1.329	1.258	1.257	1.317	1.348	1.435	1.444	1.376	1.346	5.27
11) alpha-Chlord	1.326	1.276	1.269	1.324	1.345	1.424	1.487	1.367	1.352	5.42
12) Endosulfan I	1.483	1.370	1.389	1.445	1.448	1.540	1.411	1.469	1.444	3.79
13) 4,4'-DDE	1.016	1.004	1.011	1.041	1.092	1.185	1.260	1.127	1.092	8.52
14) Dieldrin	1.240	1.176	1.220	1.298	1.343	1.457	1.362	1.392	1.311	7.25
15) Endrin	1.168	1.130	1.152	1.212	1.246	1.327	1.118	1.278	1.204	6.23
16) 4,4'-DDD	0.890	0.827	0.935	0.962	0.901	1.034	0.825	0.987	0.920	8.07
17) Endosulfan I	1.179	1.146	1.202	1.256	1.227	1.338	1.061	1.291	1.212	7.15
18) 4,4'-DDT	0.671	0.751	0.786	0.908	0.960	1.090	0.701	1.020	0.861	18.08
19) Endrin Aldeh	0.988	0.924	0.979	1.019	1.028	1.081	1.025	1.043	1.011	4.65
20) Endosulfan S	1.142	1.069	1.082	1.144	1.145	1.198	1.060	1.164	1.126	4.38
21) Methoxychlor	0.584	0.539	0.553	0.595	0.590	0.612	0.591	0.599	0.583	4.22
22) Mirex	1.587	1.435	1.378	1.411	1.333	1.311	1.556	1.310	1.415	7.55
23) Endrin Keton	1.108	1.017	1.050	1.130	1.175	1.228	1.041	1.186	1.117	6.85
24) Decachlorobi	1.957	1.892	1.855	1.846	1.768	1.730	2.027	1.725	1.850	5.83
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.022				0.022	0.00
27) Toxaphene{B}					0.052				0.052	0.00
28) Toxaphene{C}					0.040				0.040	0.00
29) Toxaphene{D}					0.038				0.038	0.00
30) Toxaphene{E}					0.037				0.037	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.036				0.036	0.00
33) Chlordane {B					0.052				0.052	0.00
34) Chlordane {C					0.169				0.169	0.00
35) Chlordane {D					0.274				0.274	0.00
36) Chlordane {E					0.037				0.037	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	1.013	0.950	0.923	0.892	0.856	0.824	0.946	0.830	0.904	7.27
3) alpha-BHC	1.459	1.396	1.377	1.359	1.303	1.280	1.511	1.276	1.370	6.17
4) gamma-BHC	1.298	1.234	1.214	1.209	1.161	1.138	1.360	1.134	1.218	6.48

Initial Calibration Summary

Job Number: JC19214 **Sample:** G1G3973-ICC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122529.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.179	1.085	1.051	1.049	1.016	0.980	1.232	0.987	1.072	8.43
6)	beta-BHC	0.558	0.509	0.504	0.515	0.500	0.484	0.570	0.484	0.516	6.18
7)	delta-BHC	1.181	1.157	1.129	1.135	1.114	1.096	1.182	1.094	1.136	3.07
8)	Aldrin	1.313	1.170	1.125	1.098	1.025	0.981	1.407	0.986	1.138	13.55
9)	Heptachlor E	1.161	1.034	1.019	0.990	0.925	0.873	1.149	0.885	1.004	10.94
10)	gamma-Chlord	1.132	1.018	0.990	0.979	0.915	0.887	1.119	0.883	0.990	9.77
11)	alpha-Chlord	1.050	0.983	0.954	0.935	0.874	0.841	1.251	0.842	0.966	14.04
12)	Endosulfan I	1.069	0.992	0.947	0.931	0.866	0.830	1.192	0.830	0.957	13.12
13)	4,4'-DDE	1.080	0.951	0.940	0.960	0.905	0.880	1.068	0.873	0.957	8.23
14)	Dieldrin	1.148	1.058	1.024	1.009	0.944	0.914	1.105	0.909	1.014	8.69
15)	Endrin	1.004	0.929	0.911	0.891	0.845	0.804	0.980	0.813	0.897	8.20
16)	4,4'-DDD	0.902	0.838	0.833	0.828	0.780	0.744	1.016	0.746	0.836	10.77
17)	Endosulfan I	0.926	0.887	0.881	0.895	0.837	0.795	1.093	0.802	0.889	10.59
18)	4,4'-DDT	0.428	0.491	0.541	0.605	0.613	0.613	0.403	0.606	0.538	16.16
19)	Endrin Aldeh	0.659	0.644	0.655	0.665	0.627	0.602	0.662	0.604	0.640	4.03
20)	Endosulfan S	0.798	0.752	0.734	0.731	0.696	0.658	0.744	0.666	0.722	6.48
21)	Methoxychlor	0.305	0.270	0.287	0.307	0.305	0.311	0.344	0.305	0.304	6.96
22)	Mirex	0.635	0.607	0.587	0.566	0.539	0.512	0.673	0.516	0.579	9.87
23)	Endrin Keton	0.719	0.657	0.669	0.677	0.660	0.644	0.689	0.638	0.669	3.91
24)	Decachlorobi	0.573	0.545	0.535	0.521	0.492	0.472	0.610	0.472	0.528	9.22

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.020	0.020	0.00
27)	Toxaphene{B}	0.025	0.025	0.00
28)	Toxaphene{C}	0.037	0.037	0.00
29)	Toxaphene{D}	0.022	0.022	0.00
30)	Toxaphene{E}	0.016	0.016	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.031	0.031	0.00
33)	Chlordane {B	0.032	0.032	0.00
34)	Chlordane {C	0.105	0.105	0.00
35)	Chlordane {D	0.177	0.177	0.00
36)	Chlordane {E	0.029	0.029	0.00

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

1PST3973.M Wed Apr 27 16:35:14 2016 RPT1

8.7.1

8

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3973-ICV3973
Lab FileID: 1G122535.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD2B.CH
Acq On    : 4-27-16 02:37:54 PM                      Operator: dharas
Sample    : icv3973-25                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.895	14.6	95	0.00	1.72- 1.78
3	A	alpha-BHC	1.286	1.056	17.9	90	0.00	2.19- 2.25
4	MA	gamma-BHC	1.246	1.033	17.1	91	0.00	2.48- 2.54
5	MA	Heptachlor	1.363	1.105	18.9	89	0.00	2.95- 3.01
6	B	beta-BHC	0.613	0.521	15.0	94	0.00	2.56- 2.62
7	B	delta-BHC	1.056	0.945	10.5	98	0.00	2.74- 2.80
8	MB	Aldrin	1.324	1.083	18.2	90	0.00	3.27- 3.33
9	B	Heptachlor Epoxide	1.328	1.130	14.9	91	0.00	3.96- 4.02
10	B	gamma-Chlordane	1.346	1.129	16.1	93	0.00	4.12- 4.18
11	B	alpha-Chlordane	1.352	1.118	17.3	92	0.00	4.28- 4.34
12	A	Endosulfan I	1.444	1.215	15.9	92	0.00	4.46- 4.52
13	B	4,4'-DDE	1.092	0.875	19.9	92	0.00	4.41- 4.47
14	MA	Dieldrin	1.311	1.112	15.2	93	0.00	4.77- 4.83
15	MA	Endrin	1.204	1.053	12.5	95	0.00	5.09- 5.15
16	A	4,4'-DDD	0.920	0.805	12.5	91	0.02	5.24- 5.31
17	B	Endosulfan II	1.212	1.066	12.0	93	0.00	5.41- 5.47
18	MA	4,4'-DDT	0.861	0.720	16.4	86	0.00	5.63- 5.69
19	B	Endrin Aldehyde	1.011	0.939	7.1	100	0.00	6.03- 6.09
20	B	Endosulfan Sulfate	1.126	0.952	15.5	91	0.00	6.71- 6.77
21	A	Methoxychlor	0.583	0.521	10.6	96	0.01	6.43- 6.49
22		Mirex		----------NA----------				
23	B	Endrin Ketone	1.117	0.956	14.4	92	0.00	7.13- 7.19
24	SA	Decachlorobiphenyl	1.850	1.662	10.2	98	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.07- 1.27
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	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19214 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122535.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.796	11.9	98	0.00	2.35- 2.41
3	A	alpha-BHC	1.370	1.151	16.0	93	0.00	3.01- 3.07
4	MA	gamma-BHC	1.218	1.027	15.7	93	0.00	3.44- 3.50
5	MA	Heptachlor	1.072	0.908	15.3	95	-0.01	4.01- 4.07
6	B	beta-BHC	0.516	0.448	13.2	95	0.00	3.53- 3.59
7	B	delta-BHC	1.136	1.026	9.7	99	0.00	3.93- 3.99
8	MB	Aldrin	1.138	0.938	17.6	93	-0.01	4.46- 4.52
9	B	Heptachlor Epoxide	1.004	0.854	14.9	94	-0.01	5.29- 5.35
10	B	gamma-Chlordane	0.990	0.857	13.4	96	-0.01	5.57- 5.63
11	B	alpha-Chlordane	0.966	0.807	16.5	94	-0.01	5.80- 5.86
12	A	Endosulfan I	0.957	0.797	16.7	94	-0.01	5.89- 5.95
13	B	4,4'-DDE	0.957	0.844	11.8	96	0.00	6.07- 6.13
14	MA	Dieldrin	1.014	0.892	12.0	97	-0.01	6.32- 6.38
15	MA	Endrin	0.897	0.807	10.0	99	-0.01	6.83- 6.89
16	A	4,4'-DDD	0.836	0.727	13.0	96	0.00	7.03- 7.09
17	B	Endosulfan II	0.889	0.782	12.0	96	-0.01	7.18- 7.24
18	MA	4,4'-DDT	0.538	0.501	6.9	90	0.00	7.55- 7.61
19	B	Endrin Aldehyde	0.640	0.617	3.6	102	-0.01	7.76- 7.82
20	B	Endosulfan Sulfate	0.722	0.638	11.6	95	-0.01	8.23- 8.29
21	A	Methoxychlor	0.304	0.263	13.5	94	0.00	8.81- 8.87
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.669	0.586	12.4	95	-0.01	9.19- 9.25
24	SA	Decachlorobiphenyl	0.528	0.490	7.2	103	0.00	10.84-10.90
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.44- 1.64
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	1.44- 1.64
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
1G122529.D 1PST3973.M Wed Apr 27 16:18:39 2016 RPT1

8.7.2 8

Initial Calibration Verification

Job Number: JC19214
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3973-ICV3973
Lab FileID: 1G122536.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD2B.CH
Acq On    : 4-27-16 02:55:30 PM                      Operator: dharas
Sample    : icv3973-25                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	1.415	1.308	7.6	97	0.00	6.51- 6.57
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.07- 1.27
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	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19214 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122536.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene		----------NA----------				
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex	0.579	0.559	3.5	107	-0.01	9.12- 9.18
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.44- 1.64
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	1.44- 1.64
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
1G122529.D 1PST3973.M Wed Apr 27 16:19:12 2016 RPT1

8.7.3

8

Initial Calibration Verification

Job Number: JC19214 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122537.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On    : 4-27-16 03:12:59 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 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	105	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.897	14.4	93	0.00	1.72- 1.78
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	1.850	1.670	9.7	99	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.07- 1.27
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	96	0.00	1.07- 1.27
32		Chlordane {A}	0.071	0.058	18.3	79	0.00	2.88- 3.08
33		Chlordane {B}	0.055	0.049	10.9	87	0.00	3.35- 3.55
34		Chlordane {C}	0.170	0.167	1.8	95	0.00	4.05- 4.25
35		Chlordane {D}	0.276	0.276	0.0	97	0.00	4.21- 4.41
36		Chlordane {E}	0.039	0.043	-10.3	108	0.00	5.23- 5.43

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19214 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122537.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.754	16.6	93	0.00	2.35- 2.41
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	0.528	0.485	8.1	104	0.00	10.84-10.90
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	1.44- 1.64
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	96	0.00	1.44- 1.64
32		Chlordane {A}	0.054	0.050	7.4	90	0.00	3.94- 4.14
33		Chlordane {B}	0.031	0.034	-9.7	105	0.00	4.59- 4.79
34		Chlordane {C}	0.105	0.107	-1.9	98	0.00	5.50- 5.70
35		Chlordane {D}	0.177	0.180	-1.7	98	0.00	5.72- 5.92
36		Chlordane {E}	0.029	0.031	-6.9	102	0.00	7.19- 7.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122530.D 1PST3973.M Wed Apr 27 16:20:30 2016 RPT1

8.7.4

8

Initial Calibration Verification

Job Number: JC19214 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122538.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On    : 4-27-16 03:30:28 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 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	107	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.851	18.8	90	0.00	1.72- 1.78
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	1.850	1.580	14.6	95	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.07- 1.27
26	L8	Toxaphene{A}	0.022	0.021	4.5	93	0.00	4.71- 4.91
27	L8	Toxaphene{B}	0.052	0.052	0.0	99	0.00	5.32- 5.52
28	L8	Toxaphene{C}	0.040	0.039	2.5	97	0.00	5.50- 5.70
29	L8	Toxaphene{D}	0.038	0.038	0.0	99	0.00	5.83- 6.03
30	L8	Toxaphene{E}	0.037	0.037	0.0	99	0.00	6.46- 6.66
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC19214 **Sample:** G1G3973-ICV3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122538.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.739	18.3	92	0.00	2.35- 2.41
3	A	alpha-BHC		----------NA----------				
4	MA	gamma-BHC		----------NA----------				
5	MA	Heptachlor		----------NA----------				
6	B	beta-BHC		----------NA----------				
7	B	delta-BHC		----------NA----------				
8	MB	Aldrin		----------NA----------				
9	B	Heptachlor Epoxide		----------NA----------				
10	B	gamma-Chlordane		----------NA----------				
11	B	alpha-Chlordane		----------NA----------				
12	A	Endosulfan I		----------NA----------				
13	B	4,4'-DDE		----------NA----------				
14	MA	Dieldrin		----------NA----------				
15	MA	Endrin		----------NA----------				
16	A	4,4'-DDD		----------NA----------				
17	B	Endosulfan II		----------NA----------				
18	MA	4,4'-DDT		----------NA----------				
19	B	Endrin Aldehyde		----------NA----------				
20	B	Endosulfan Sulfate		----------NA----------				
21	A	Methoxychlor		----------NA----------				
22		Mirex		----------NA----------				
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl	0.528	0.457	13.4	99	0.00	10.84-10.90
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.44- 1.64
26	L8	Toxaphene{A}	0.020	0.023	-15.0	109	0.00	6.22- 6.42
27	L8	Toxaphene{B}	0.025	0.028	-12.0	107	-0.01	7.08- 7.28
28	L8	Toxaphene{C}	0.037	0.037	0.0	94	0.00	7.25- 7.45
29	L8	Toxaphene{D}	0.022	0.026	-18.2	110	-0.01	7.69- 7.89
30	L8	Toxaphene{E}	0.016	0.019	-18.7	108	-0.01	8.59- 8.79
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.44- 1.64
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
1G122530.D 1PST3973.M Wed Apr 27 16:20:31 2016 RPT1

8.7.5

8

Continuing Calibration Summary

Job Number: JC19214 **Sample:** G1G3976-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122600.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                      Operator: brittanp
Sample    : cc3973-25                                Inst    : GC1G
Misc      : op90282,g1g3976,15.0,,,10,1             Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                      Operator: brittanp
Sample    : cc3973-25                                Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1             Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 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	103	0.00	1.13- 1.19
2	SAB	Tetrachloro-m-xylene	1.048	0.995	5.1	100	0.00	1.72- 1.78
3	A	alpha-BHC	1.286	1.258	2.2	102	0.00	2.18- 2.24
4	MA	gamma-BHC	1.246	1.181	5.2	99	0.00	2.47- 2.53
5	MA	Heptachlor	1.363	1.339	1.8	102	0.00	2.95- 3.01
6	B	beta-BHC	0.613	0.581	5.2	100	0.00	2.55- 2.61
7	B	delta-BHC	1.056	1.058	-0.2	104	0.00	2.73- 2.79
8	MB	Aldrin	1.324	1.244	6.0	98	0.00	3.27- 3.33
9	B	Heptachlor Epoxide	1.328	1.235	7.0	94	-0.01	3.96- 4.02
10	B	gamma-Chlordane	1.346	1.233	8.4	97	-0.01	4.12- 4.18
11	B	alpha-Chlordane	1.352	1.294	4.3	101	-0.01	4.28- 4.34
12	A	Endosulfan I	1.444	1.282	11.2	92	-0.01	4.45- 4.51
13	B	4,4'-DDE	1.092	1.155	-5.8	115	0.00	4.40- 4.46
14	MA	Dieldrin	1.311	1.245	5.0	99	-0.01	4.77- 4.83
15	MA	Endrin	1.204	1.178	2.2	100	-0.01	5.08- 5.14
16	A	4,4'-DDD	0.920	0.917	0.3	98	0.00	5.22- 5.29
17	B	Endosulfan II	1.212	1.194	1.5	98	-0.01	5.40- 5.46
18	MA	4,4'-DDT	0.861	0.940	-9.2	107	0.00	5.62- 5.68
19	B	Endrin Aldehyde	1.011	1.014	-0.3	103	-0.01	6.02- 6.08
20	B	Endosulfan Sulfate	1.126	1.201	-6.7	109	-0.01	6.70- 6.76
21	A	Methoxychlor	0.583	0.643	-10.3	112	0.00	6.41- 6.47
22		Mirex	1.415	1.285	9.2	94	-0.01	6.50- 6.56
23	B	Endrin Ketone	1.117	1.312	-17.5	120	-0.01	7.13- 7.19
24	SA	Decachlorobiphenyl	1.850	1.769	4.4	99	0.00	8.91- 8.97

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.50- 1.56
2	SAB	Tetrachloro-m-xylene	0.904	0.836	7.5	94	0.00	2.34- 2.40
3	A	alpha-BHC	1.370	1.280	6.6	94	0.00	3.01- 3.07
4	MA	gamma-BHC	1.218	1.096	10.0	91	-0.01	3.44- 3.50
5	MA	Heptachlor	1.072	0.970	9.5	93	-0.01	4.01- 4.07
6	B	beta-BHC	0.516	0.451	12.6	87	0.00	3.53- 3.59
7	B	delta-BHC	1.136	1.053	7.3	93	0.00	3.92- 3.98

Continuing Calibration Summary

Job Number: JC19214 **Sample:** G1G3976-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122600.D
Project: BMSMC, Building 5 Area, PR

8	MB	Aldrin	1.138	0.953	16.3	87	-0.01	4.46-	4.52
9	B	Heptachlor Epoxide	1.004	0.864	13.9	87	-0.01	5.28-	5.34
10	B	gamma-Chlordane	0.990	0.852	13.9	87	-0.01	5.57-	5.63
11	B	alpha-Chlordane	0.966	0.815	15.6	87	-0.02	5.79-	5.85
12	A	Endosulfan I	0.957	0.815	14.8	88	-0.01	5.89-	5.95
13	B	4,4'-DDE	0.957	0.829	13.4	86	-0.01	6.06-	6.12
14	MA	Dieldrin	1.014	0.889	12.3	88	-0.02	6.32-	6.38
15	MA	Endrin	0.897	0.809	9.8	91	-0.02	6.83-	6.89
16	A	4,4'-DDD	0.836	0.729	12.8	88	0.00	7.02-	7.08
17	B	Endosulfan II	0.889	0.778	12.5	87	-0.01	7.18-	7.24
18	MA	4,4'-DDT	0.538	0.582	-8.2	96	-0.01	7.55-	7.61
19	B	Endrin Aldehyde	0.640	0.597	6.7	90	-0.02	7.75-	7.81
20	B	Endosulfan Sulfate	0.722	0.696	3.6	95	-0.02	8.22-	8.28
21	A	Methoxychlor	0.304	0.306	-0.7	100	-0.02	8.80-	8.86
22		Mirex	0.579	0.513	11.4	91	-0.02	9.11-	9.17
23	B	Endrin Ketone	0.669	0.735	-9.9	109	-0.02	9.18-	9.24
24	SA	Decachlorobiphenyl	0.528	0.474	10.2	91	0.00	10.83-	10.89

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G122529.D 1PST3973.M Fri Apr 29 11:14:08 2016 RPT1

8.7.6

8

Continuing Calibration Summary

Job Number: JC19214 **Sample:** G1G3976-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122622.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD2B.CH
Acq On    : 4-29-16 04:42:22 PM                      Operator: dharas
Sample    : cc3973-50                                Inst    : GC1G
Misc      : op93471,g1g3976,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.14- 1.20
2	SAB	Tetrachloro-m-xylene	1.048	0.965	7.9	96	0.00	1.72- 1.78
3	A	alpha-BHC	1.286	1.310	-1.9	97	0.00	2.19- 2.25
4	MA	gamma-BHC	1.246	1.241	0.4	96	0.00	2.48- 2.54
5	MA	Heptachlor	1.363	1.342	1.5	97	0.00	2.95- 3.01
6	B	beta-BHC	0.613	0.562	8.3	94	0.00	2.56- 2.62
7	B	delta-BHC	1.056	1.072	-1.5	94	0.00	2.74- 2.80
8	MB	Aldrin	1.324	1.287	2.8	95	0.00	3.27- 3.33
9	B	Heptachlor Epoxide	1.328	1.252	5.7	93	0.00	3.96- 4.02
10	B	gamma-Chlordane	1.346	1.303	3.2	97	0.00	4.12- 4.18
11	B	alpha-Chlordane	1.352	1.392	-3.0	104	-0.01	4.28- 4.34
12	A	Endosulfan I	1.444	1.410	2.4	98	-0.01	4.46- 4.52
13	B	4,4'-DDE	1.092	1.136	-4.0	105	0.00	4.41- 4.47
14	MA	Dieldrin	1.311	1.274	2.8	96	-0.01	4.77- 4.83
15	MA	Endrin	1.204	1.189	1.2	96	-0.01	5.08- 5.14
16	A	4,4'-DDD	0.920	0.873	5.1	98	0.00	5.23- 5.30
17	B	Endosulfan II	1.212	1.167	3.7	96	0.00	5.41- 5.47
18	MA	4,4'-DDT	0.861	0.846	1.7	89	0.00	5.63- 5.69
19	B	Endrin Aldehyde	1.011	0.980	3.1	96	0.00	6.03- 6.09
20	B	Endosulfan Sulfate	1.126	1.116	0.9	98	0.00	6.71- 6.77
21	A	Methoxychlor	0.583	0.518	11.1	88	0.01	6.42- 6.48
22		Mirex	1.415	1.184	16.3	89	-0.01	6.50- 6.56
23	B	Endrin Ketone	1.117	1.304	-16.7	112	0.00	7.13- 7.19
24	SA	Decachlorobiphenyl	1.850	1.660	10.3	95	0.00	8.91- 8.97
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	94	0.00	1.07- 1.27
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	93	0.00	1.07- 1.27
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

8.7.7

8

Continuing Calibration Summary

Job Number: JC19214 **Sample:** G1G3976-CC3973
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G122622.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.51- 1.57
2	SAB	Tetrachloro-m-xylene	0.904	0.794	12.2	91	0.00	2.35- 2.41
3	A	alpha-BHC	1.370	1.210	11.7	91	0.00	3.01- 3.07
4	MA	gamma-BHC	1.218	1.062	12.8	89	0.00	3.44- 3.50
5	MA	Heptachlor	1.072	0.941	12.2	91	-0.01	4.01- 4.07
6	B	beta-BHC	0.516	0.444	14.0	87	0.00	3.53- 3.59
7	B	delta-BHC	1.136	1.015	10.7	89	0.00	3.92- 3.98
8	MB	Aldrin	1.138	0.945	17.0	90	-0.01	4.46- 4.52
9	B	Heptachlor Epoxide	1.004	0.840	16.3	89	-0.01	5.28- 5.34
10	B	gamma-Chlordane	0.990	0.824	16.8	88	-0.01	5.57- 5.63
11	B	alpha-Chlordane	0.966	0.791	18.1	89	-0.01	5.79- 5.85
12	A	Endosulfan I	0.957	0.788	17.7	89	-0.01	5.89- 5.95
13	B	4,4'-DDE	0.957	0.834	12.9	90	0.00	6.07- 6.13
14	MA	Dieldrin	1.014	0.866	14.6	90	-0.01	6.32- 6.38
15	MA	Endrin	0.897	0.784	12.6	91	-0.02	6.83- 6.89
16	A	4,4'-DDD	0.836	0.728	12.9	91	0.00	7.02- 7.08
17	B	Endosulfan II	0.889	0.768	13.6	90	-0.01	7.18- 7.24
18	MA	4,4'-DDT	0.538	0.499	7.2	80	-0.01	7.55- 7.61
19	B	Endrin Aldehyde	0.640	0.580	9.4	91	-0.01	7.75- 7.81
20	B	Endosulfan Sulfate	0.722	0.636	11.9	89	-0.01	8.23- 8.29
21	A	Methoxychlor	0.304	0.245	19.4	78	-0.01	8.80- 8.86
22		Mirex	0.579	0.500	13.6	91	-0.02	9.11- 9.17
23	B	Endrin Ketone	0.669	0.684	-2.2	101	-0.02	9.19- 9.25
24	SA	Decachlorobiphenyl	0.528	0.460	12.9	92	0.00	10.83-10.89
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	87	0.00	1.44- 1.64
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	90	0.00	1.44- 1.64
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
1G122530.D 1PST3973.M Mon May 02 11:35:18 2016 RPT1

8.7.7

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122607.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122607.D\ECD2B.CH
Acq On    : 29 Apr 2016  10:25 am                    Operator: brittanp
Sample    : jc19214-1                                Inst    : GC1G
Misc      : op93460,g1g39765,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:11 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #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-nitrob	1.16	1.53	58183006	900.5E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.16	1.53	58183006	900.5E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.16	1.53	58183006	900.5E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.75	2.37	38782136	510.6E6	31.811	31.352
Spiked Amount 40.000	Range 30 - 150		Recovery =		79.53%	78.38%
24) SA Decachlorobiphen	8.94	10.86	35207531	153.6E6	16.355	16.172
Spiked Amount 40.000			Recovery =		40.89%	40.43%
Target Compounds						

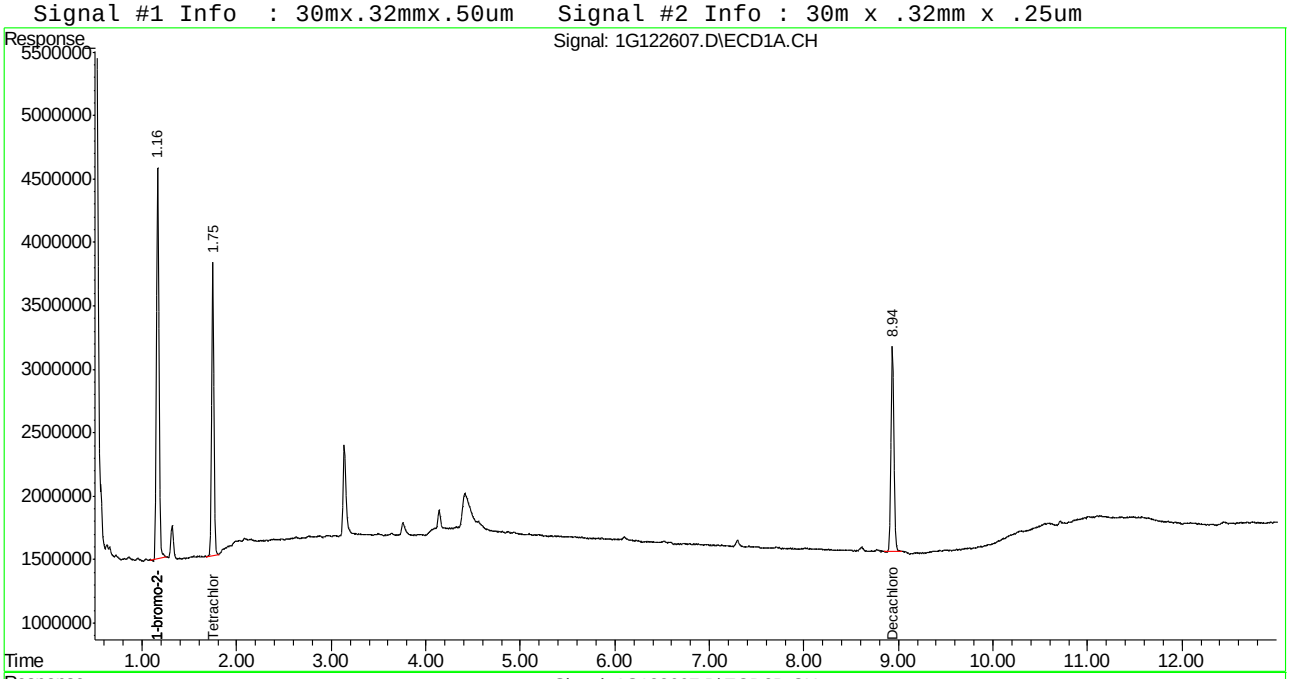
(f)=RT Delta > 1/2 Window (m)=manual int.

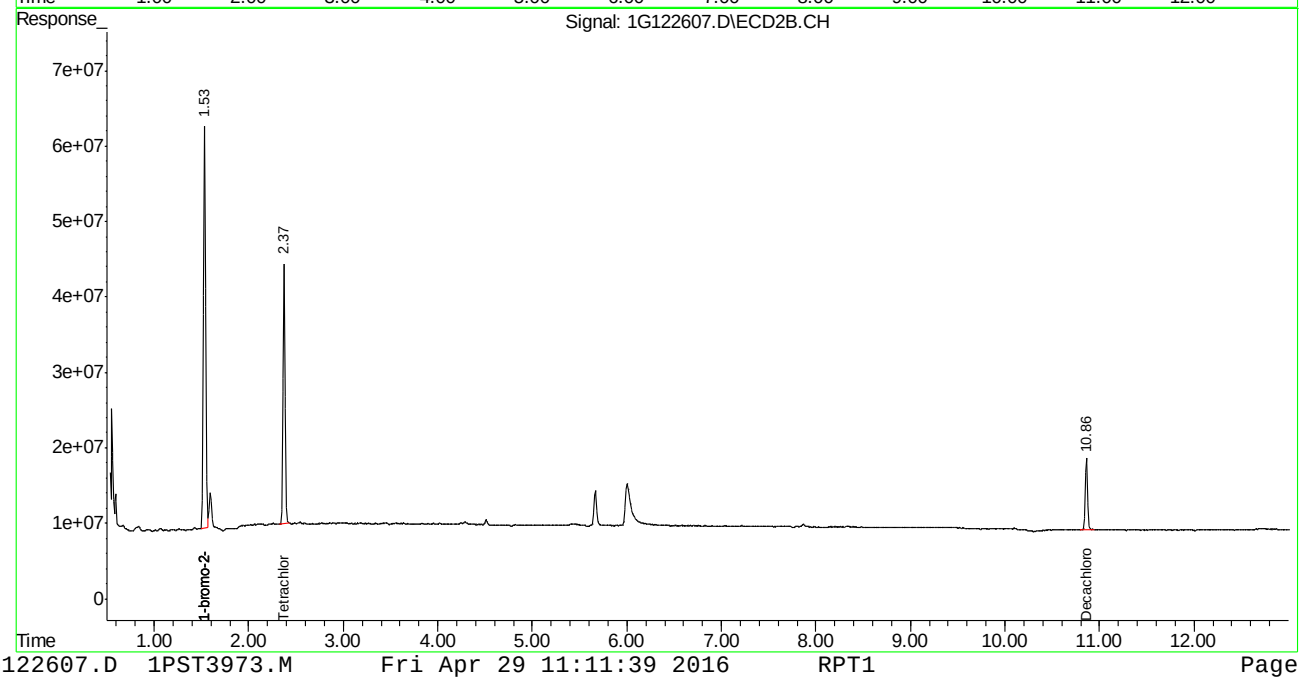
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122607.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122607.D\ECD2B.CH
Acq On : 29 Apr 2016 10:25 am Operator: brittanp
Sample : jc19214-1 Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:11 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122608.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122608.D\ECD2B.CH
Acq On    : 29 Apr 2016  10:43 am                    Operator: brittanp
Sample    : jc19214-2                                Inst    : GC1G
Misc      : op93460,g1g39765,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:12 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.50um   Signal #2 Info : 30m x .32mm x .25um
```

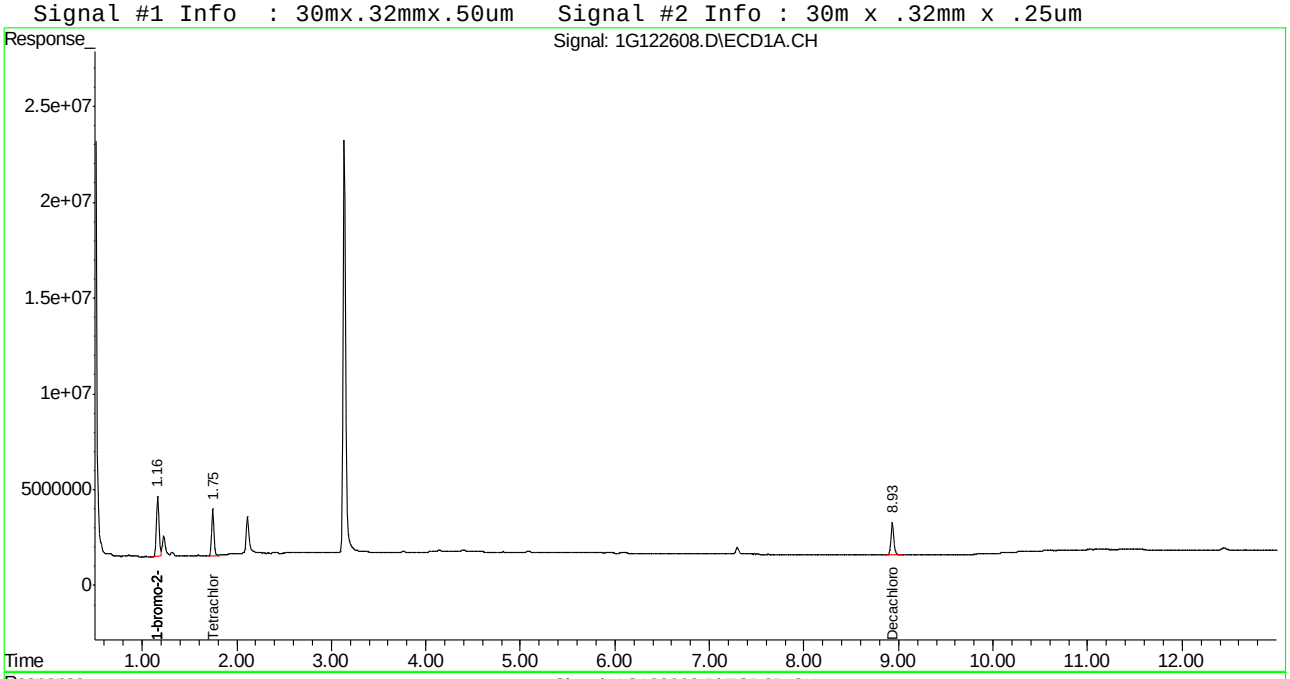
Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2-nitrob	1.16	1.53	58992660	901.3E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.16	1.53	58992660	901.3E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.16	1.53	58992660	901.3E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.75	2.37	40340180	527.7E6	32.635	32.371
Spiked Amount 40.000	Range 30 - 150		Recovery =		81.59%	80.93%
24) SA Decachlorobiphen	8.94	10.86	34703247	150.7E6	15.900	15.854
Spiked Amount 40.000			Recovery =		39.75%	39.63%
Target Compounds						

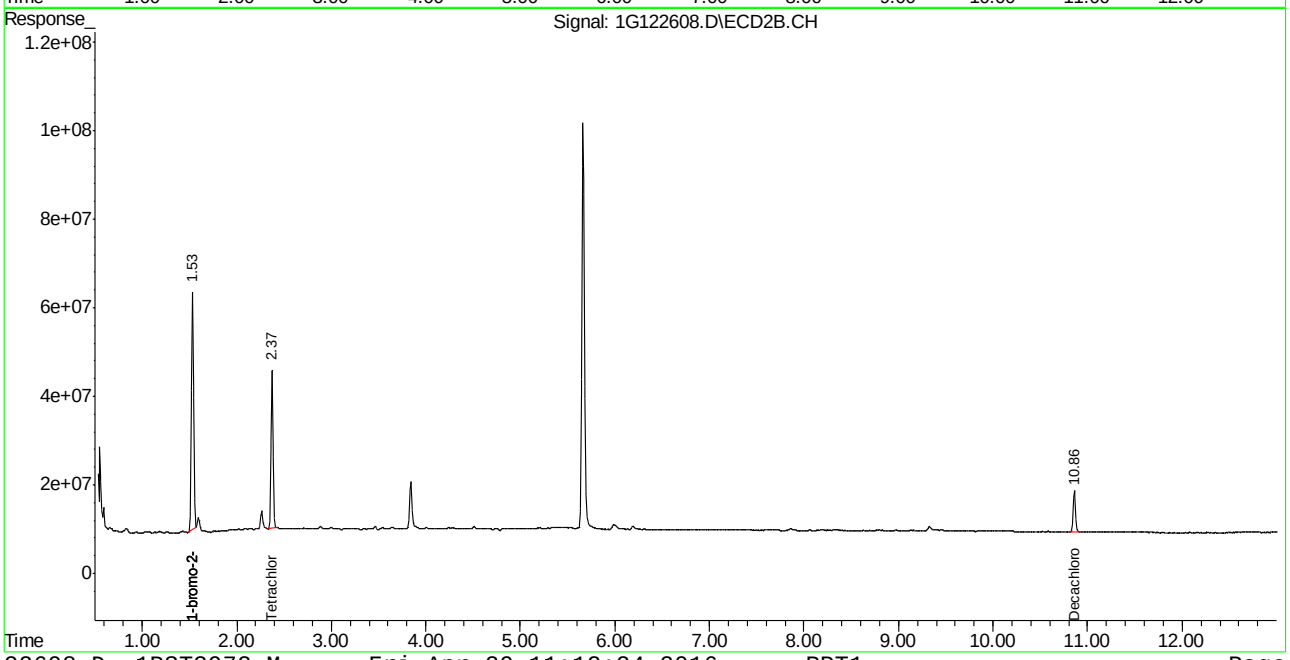
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122608.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122608.D\ECD2B.CH
Acq On : 29 Apr 2016 10:43 am Operator: brittanp
Sample : jc19214-2 Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:12 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122602.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122602.D\ECD2B.CH
Acq On    : 4-29-16 08:58:04 AM                      Operator: brittanp
Sample    : op93460-mb1                              Inst    : GC1G
Misc      : op93460,g1g39765,300,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:07 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #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-nitrob	1.16	1.53	58147824	875.8E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.16	1.53	58147824	875.8E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.16	1.53	58147824	875.8E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.75	2.37	45404744	556.9E6	37.265	35.157
Spiked Amount 40.000	Range 30 - 150		Recovery =		93.16%	87.89%
24) SA Decachlorobiphen	8.94	10.86	52519541	215.3E6	24.412	23.297
Spiked Amount 40.000			Recovery =		61.03%	58.24%
Target Compounds						

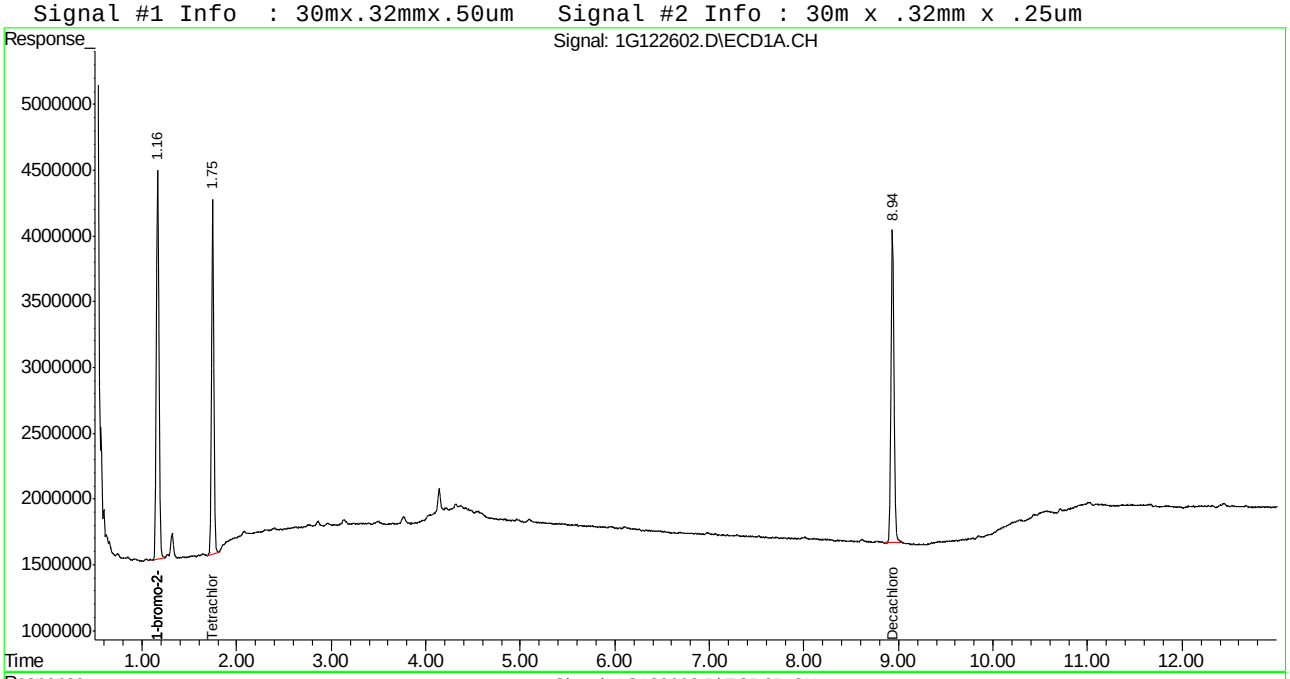
```
(f)=RT Delta > 1/2 Window                          (m)=manual int.
1G122602.D  1PST3973.M      Fri Apr 29 11:07:45 2016      RPT1
```

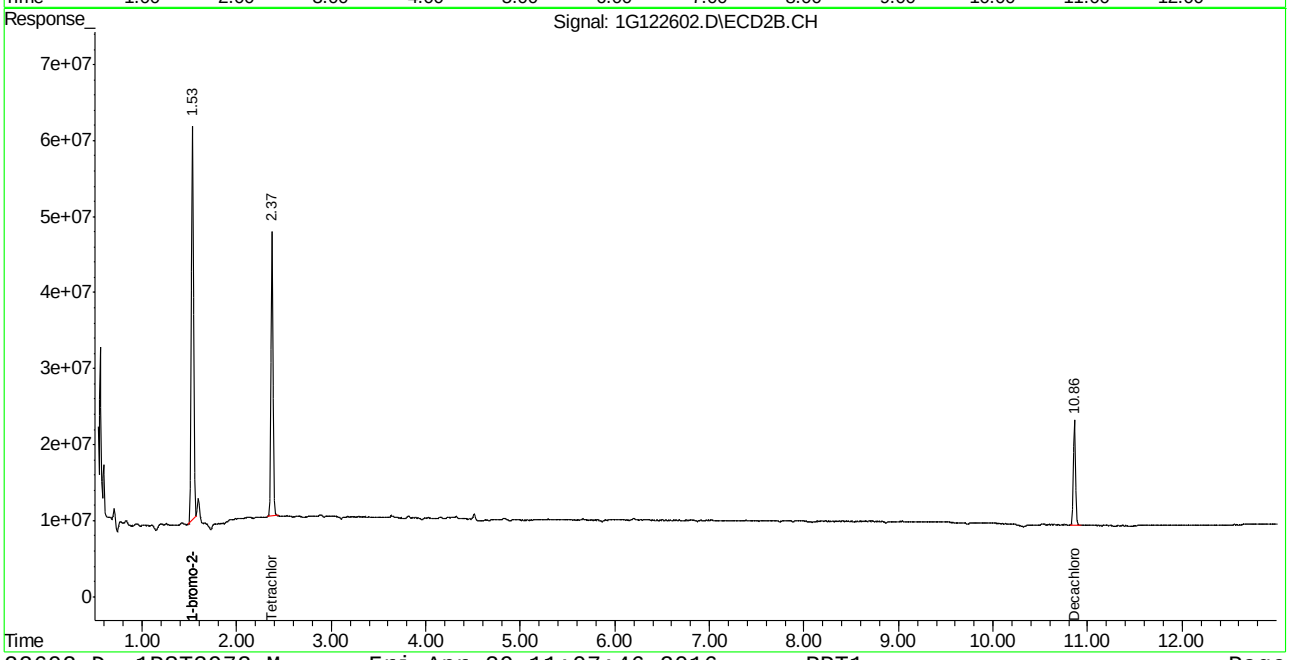
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122602.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122602.D\ECD2B.CH
Acq On : 4-29-16 08:58:04 AM Operator: brittanp
Sample : op93460-mb1 Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:07 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122603.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122603.D\ECD2B.CH
Acq On : 4-29-16 09:15:37 AM Operator: brittanp
Sample : op93460-bs1 Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:08 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.16	1.53	61998270	954.0E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	61998270	954.0E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	61998270	954.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.37	42134385	536.4E6	32.434	31.087
Spiked Amount	40.000 Range	30 - 150	Recovery	=		81.08%	77.72%
24) SA	Decachlorobiphen	8.94	10.86	63708319	263.4E6	27.774	26.173
Spiked Amount	40.000		Recovery	=		69.44%	65.43%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	30960336	506.9E6	19.415	19.391
4) MA	gamma-BHC	2.51	3.47	30213399	448.6E6	19.556	19.298
5) MA	Heptachlor	2.98	4.04	33905980	401.8E6	20.061	19.636
6) B	beta-BHC	2.59	3.56	15584613	187.6E6	20.492	19.072
7) B	delta-BHC	2.76	3.95	27328625	441.3E6	20.867	20.361
8) MB	Aldrin	3.30	4.49	30803184	394.1E6	18.760	18.151
9) B	Heptachlor Epoxi	3.99	5.31	32083500	367.3E6	19.484	19.167
10) B	gamma-Chlordane	4.15	5.60	33148445	357.2E6	19.869	18.906
11) B	alpha-Chlordane	4.31	5.82	32148528	341.2E6	19.173	18.504
12) A	Endosulfan I	4.49	5.92	32213963	336.7E6	17.987	18.437
13) B	4,4'-DDE	4.43	6.09	28175569	335.4E6	20.812	18.363
14) MA	Dieldrin	4.80	6.35	32117701	373.7E6	19.757	19.318
15) MA	Endrin	5.11	6.86	31528573	339.2E6	21.123	19.816
16) A	4,4'-DDD	5.26	7.05	23068986	298.0E6	20.219	18.678
17) B	Endosulfan II	5.44	7.21	30485982	318.5E6	20.279	18.769
18) MA	4,4'-DDT	5.66	7.58	25352360	245.5E6	23.751	23.934
19) B	Endrin Aldehyde	6.06	7.78	26738402	231.7E6	21.331	18.978
20) B	Endosulfan Sulfa	6.73	8.25	30925105	290.2E6	22.159	21.056
21) A	Methoxychlor	6.44	8.83	17842180	129.3E6	24.687	22.274
23) B	Endrin Ketone	7.16	9.22	33974304	299.0E6	24.534	23.428

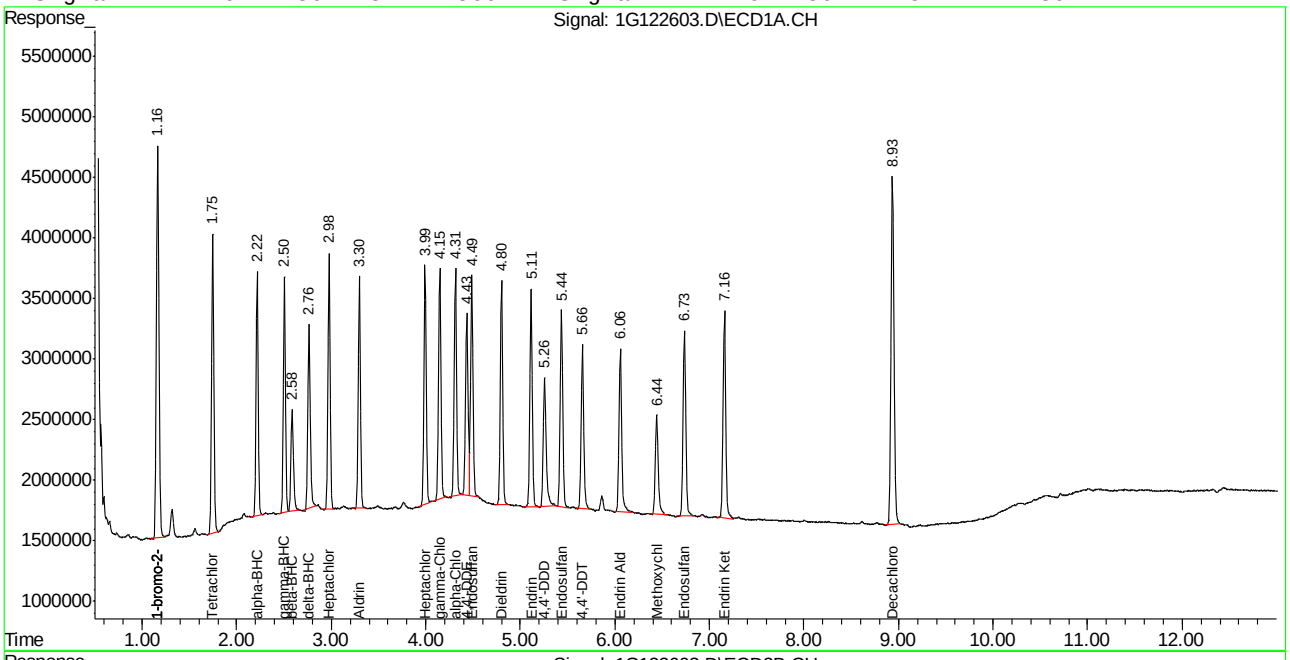
(f)=RT Delta > 1/2 Window (m)=manual int.

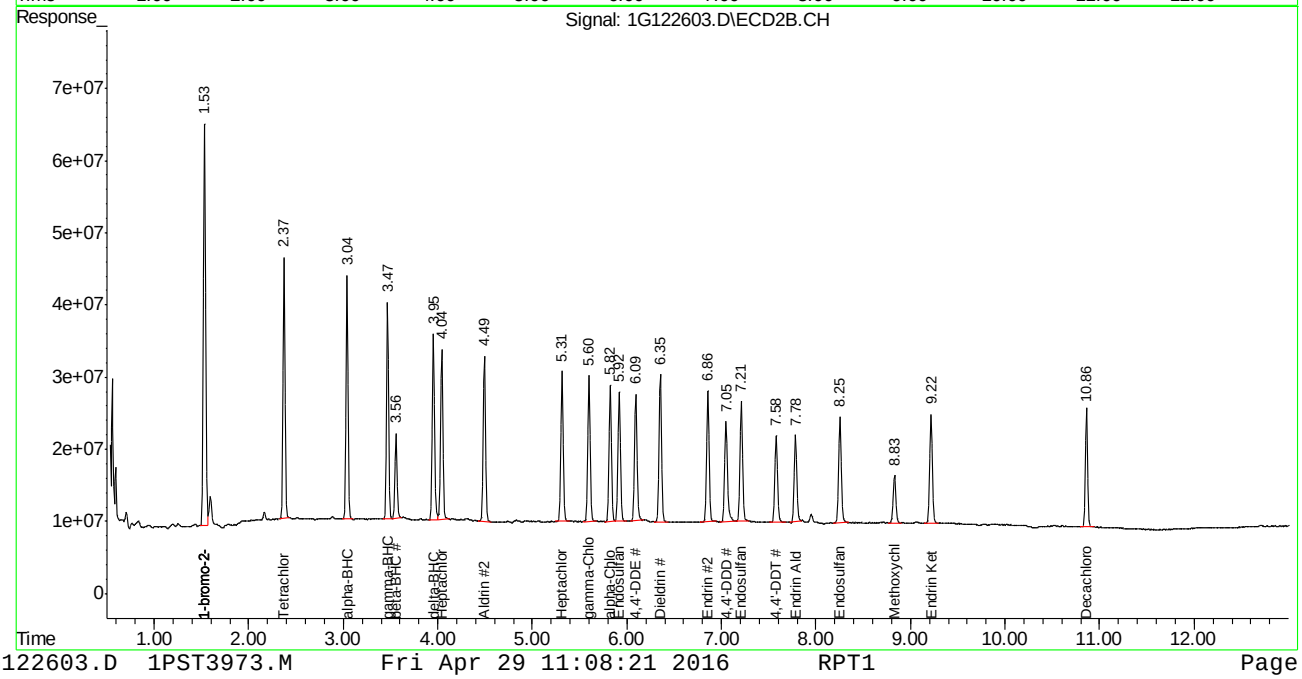
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122603.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122603.D\ECD2B.CH
Acq On : 4-29-16 09:15:37 AM Operator: brittanp
Sample : op93460-bs1 Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:08 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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 JC19214

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122606.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122606.D\ECD2B.CH
Acq On : 29 Apr 2016 10:08 am Operator: brittanp
Sample : op93460-bsd Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:10 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.16	1.53	59910812	927.5E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	59910812	927.5E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	59910812	927.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.37	42343480	554.1E6	33.730	33.031
Spiked Amount	40.000	Range	30 - 150	Recovery	=	84.32%	82.58%
24) SA	Decachlorobiphen	8.94	10.86	73129887	307.4E6	32.992	31.412
Spiked Amount	40.000			Recovery	=	82.48%	78.53%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	33661720	548.8E6	21.845	21.592
4) MA	gamma-BHC	2.50	3.47	32911440	490.8E6	22.044	21.715
5) MA	Heptachlor	2.98	4.04	36996629	447.4E6	22.653	22.490
6) B	beta-BHC	2.59	3.56	17133697	209.5E6	23.314	21.905
7) B	delta-BHC	2.77	3.95	29798787	491.8E6	23.546	23.336
8) MB	Aldrin	3.30	4.49	33803765	441.8E6	21.305	20.928
9) B	Heptachlor Epoxi	3.99	5.31	35894509	406.9E6	22.557	21.837
10) B	gamma-Chlordane	4.15	5.60	37349091	398.2E6	23.166	21.678
11) B	alpha-Chlordane	4.31	5.82	34992151	380.0E6	21.596	21.199
12) A	Endosulfan I	4.49	5.92	36073232	375.6E6	20.843	21.152
13) B	4,4'-DDE	4.44	6.09	30520192	369.9E6	23.329	20.833
14) MA	Dieldrin	4.80	6.35	34910475	414.6E6	22.223	22.044
15) MA	Endrin	5.11	6.86	34133893	375.5E6	23.665	22.563
16) A	4,4'-DDD	5.26	7.05	24964103	330.9E6	22.642	21.334
17) B	Endosulfan II	5.44	7.21	32926464	351.3E6	22.666	21.293
18) MA	4,4'-DDT	5.66	7.58	27352426	274.9E6	26.518	27.570
19) B	Endrin Aldehyde	6.06	7.78	28842688	252.0E6	23.812	21.234
20) B	Endosulfan Sulfa	6.73	8.25	33603525	319.0E6	24.917	23.812
21) A	Methoxychlor	6.44	8.83	19565644	143.2E6	28.015	25.368
23) B	Endrin Ketone	7.16	9.22	36196786	322.8E6	27.050	26.014

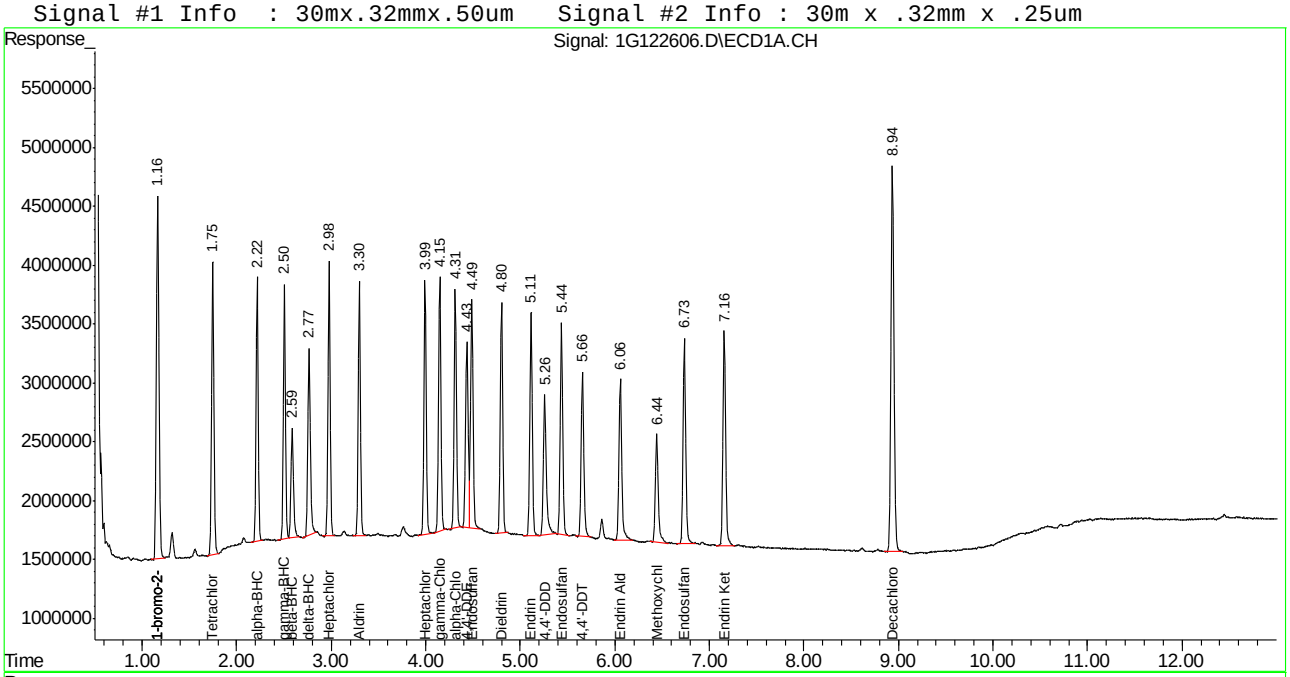
(f)=RT Delta > 1/2 Window (m)=manual int.

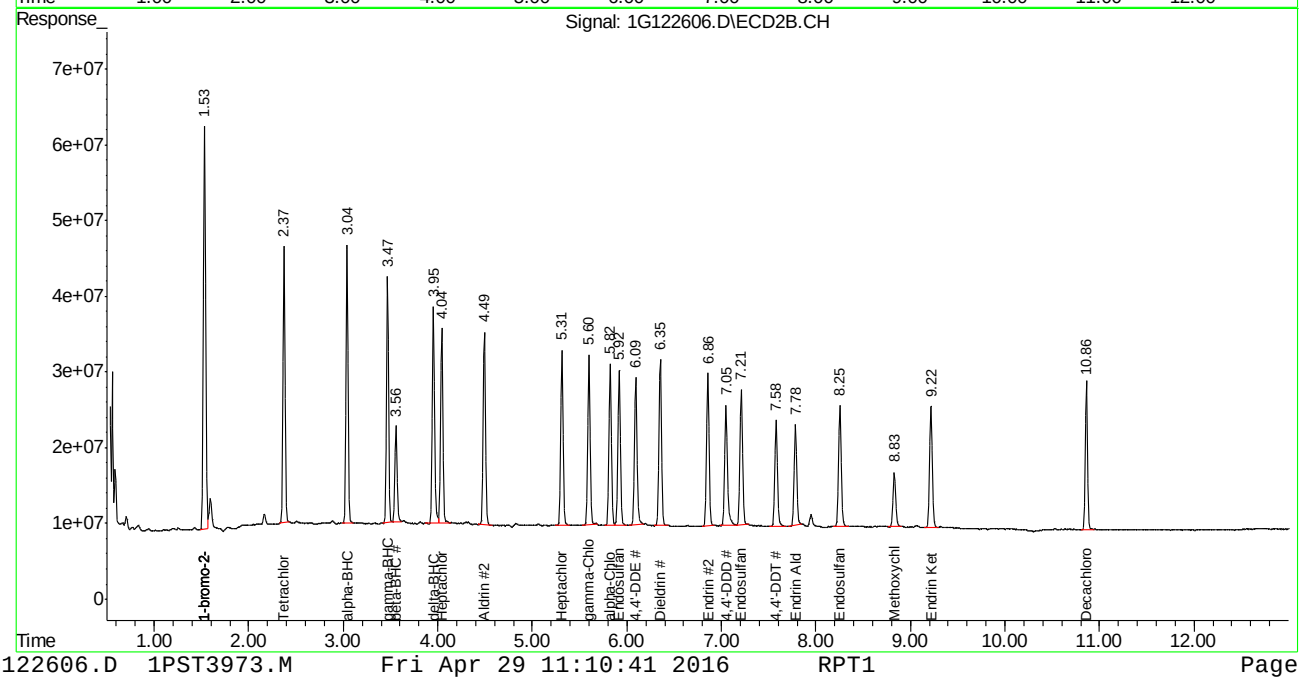
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122606.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122606.D\ECD2B.CH
Acq On : 29 Apr 2016 10:08 am Operator: brittanp
Sample : op93460-bsd Inst : GC1G
Misc : op93460,g1g39765,300,,,2,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 11:10 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On : 27 Apr 2016 11:42 am Operator: dharas
Sample : ic3973-1 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:51 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	56807008	897.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	1365731	16978659	1.258m	1.203
Spiked Amount	40.000	Range	30 - 150	Recovery	=	3.15%#	3.01%#
24) SA	Decachlorobiphen	8.94	10.86	2302680	10942426	1.535	1.179
Spiked Amount	40.000			Recovery	=	3.84%	2.95%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	1329092	27109613	1.031	1.273
4) MA	gamma-BHC	2.50	3.47	1372193	24399756	1.115	1.275
5) MA	Heptachlor	2.98	4.04	1538640	22108606	1.164	1.285
6) B	beta-BHC	2.59	3.56	767796	10223407	1.226m	1.257
7) B	delta-BHC	2.76	3.95	1042591	21214111	0.962m	1.207
8) MB	Aldrin	3.30	4.49	1508472	25238653	1.226	1.467
9) B	Heptachlor Epoxi	3.99	5.31	1417990	20610215	1.158	1.324
10) B	gamma-Chlordane	4.15	5.60	1640412	20078620	1.271	1.289
11) B	alpha-Chlordane	4.31	5.83	1689199	22438437	1.357	1.490
12) A	Endosulfan I	4.49	5.92	1602571	21389391	1.354	1.454
13) B	4,4'-DDE	4.44	6.10	1431032	19160828	1.259	1.236
14) MA	Dieldrin	4.80	6.36	1546996	19823864	1.291	1.204
15) MA	Endrin	5.12	6.86	1270051	17574377	1.133	1.230
16) A	4,4'-DDD	5.28	7.06	937505	18234050	0.993	1.386
17) B	Endosulfan II	5.44	7.21	1205242	19601127	1.060	1.378
18) MA	4,4'-DDT	5.67	7.58	796168	7231675	0.885	0.702m
19) B	Endrin Aldehyde	6.06	7.79	1164032	11880499	1.208	1.077
20) B	Endosulfan Sulfa	6.74	8.26	1204108	13340599	1.165	1.114
21) A	Methoxychlor	6.45	8.84	671673	6175298	1.108m	1.130
22)	Mirex	6.53	9.14	1768056	12068702	1.540	1.318
23) B	Endrin Ketone	7.17	9.22	1182565	12354814	0.980	0.970

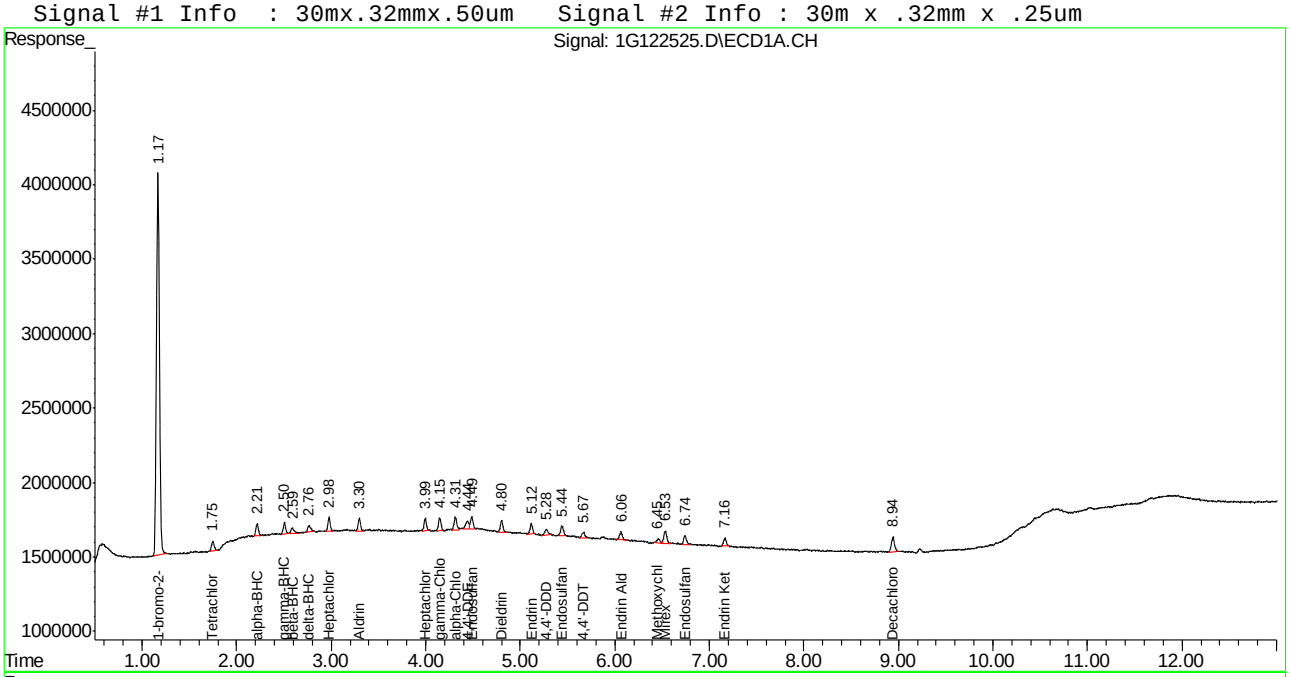
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122525.D 1PST3973.M Wed Apr 27 14:52:03 2016 RPT1 Page 1

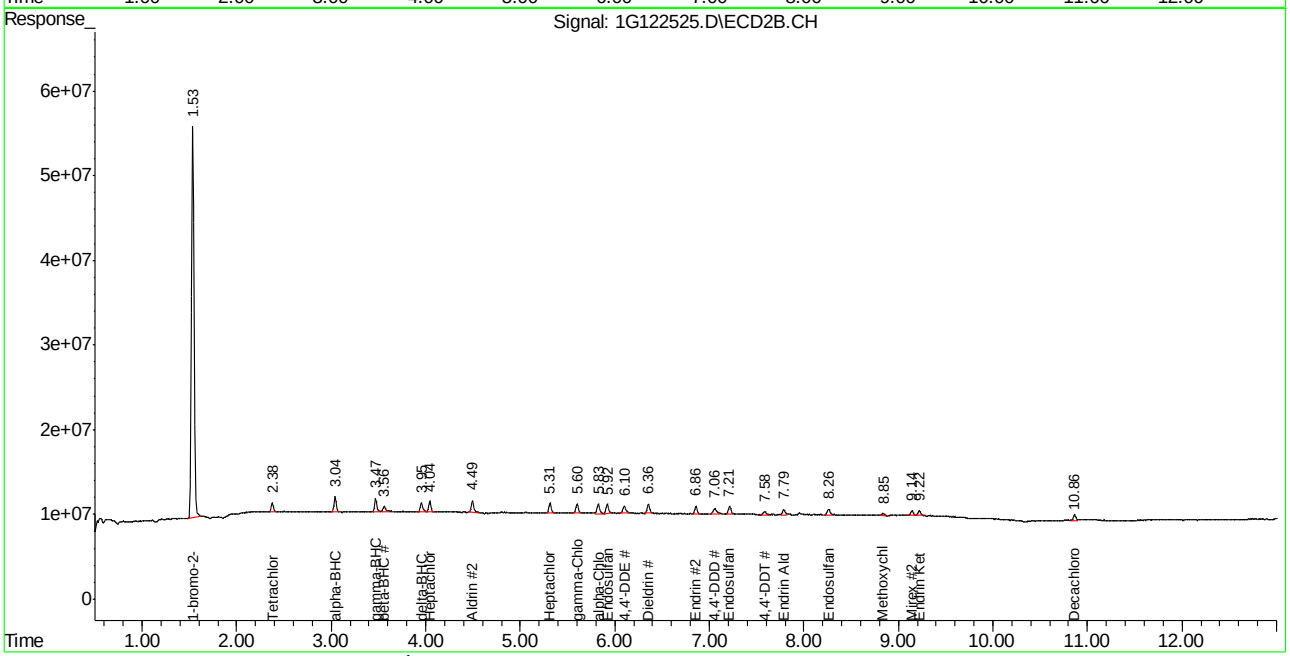
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On : 27 Apr 2016 11:42 am Operator: dharas
Sample : ic3973-1 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:51 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

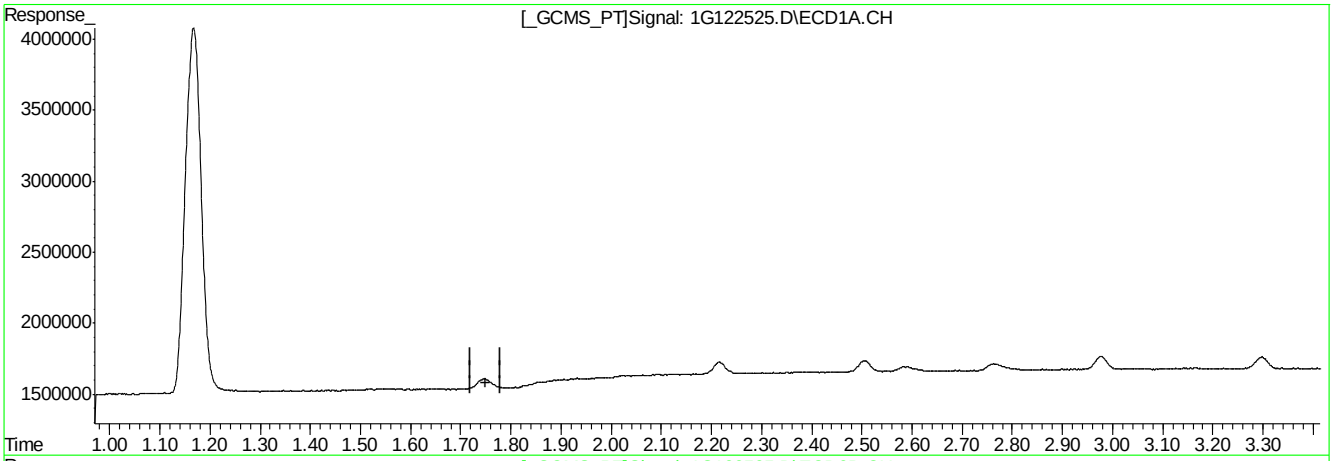
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122525.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 11:42	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

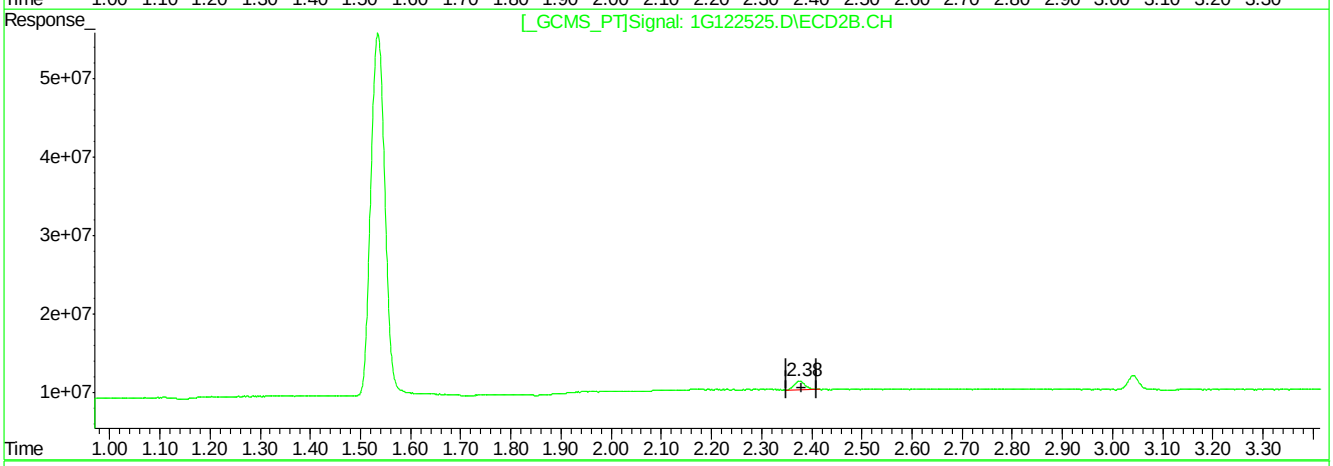
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.75	Poor instrument integration
beta-BHC	319-85-7	1	2.59	Poor instrument integration
delta-BHC	319-86-8	1	2.76	Poor instrument integration
Methoxychlor	72-43-5	1	6.45	Poor instrument integration
4,4'-DDT	50-29-3	2	7.58	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

0.00min 0.000PPB

response 0

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 1.203PPB

response 16978659

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:08:47 2016 RPT1

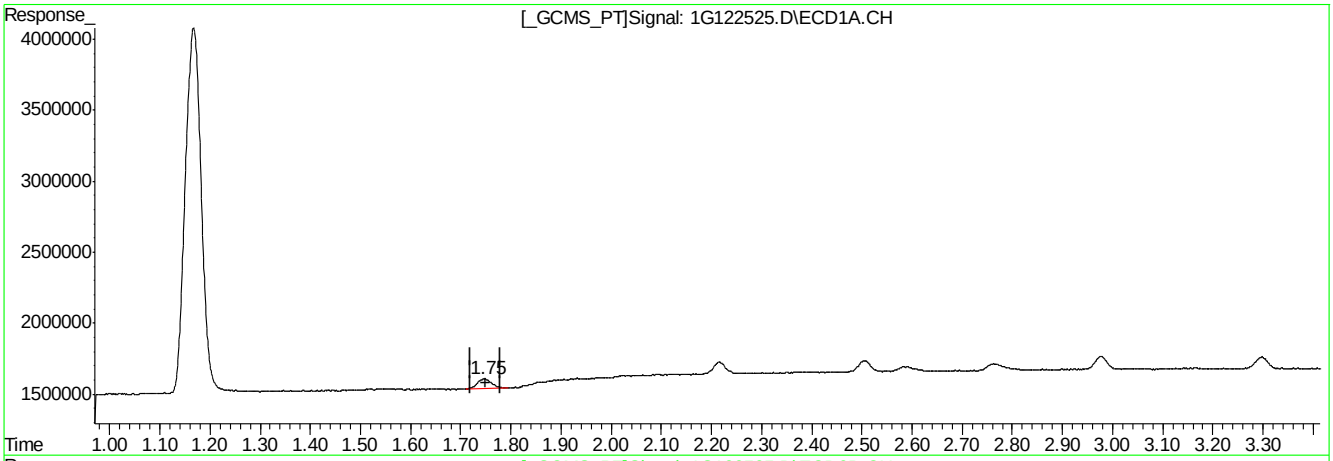
9.4.1.2

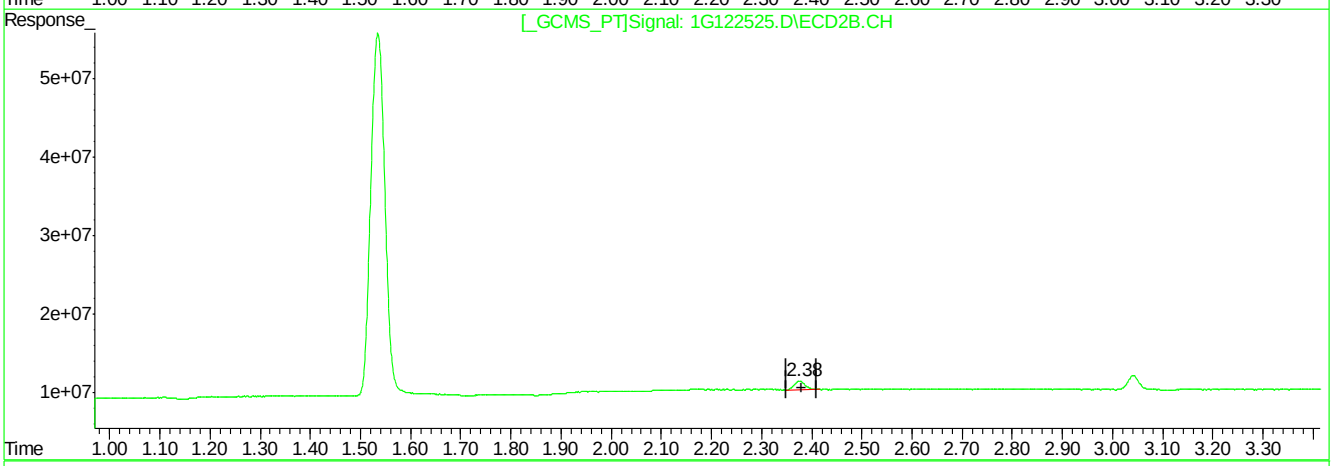
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.75min 1.258PPB m

response 1365731

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 1.203PPB

response 16978659

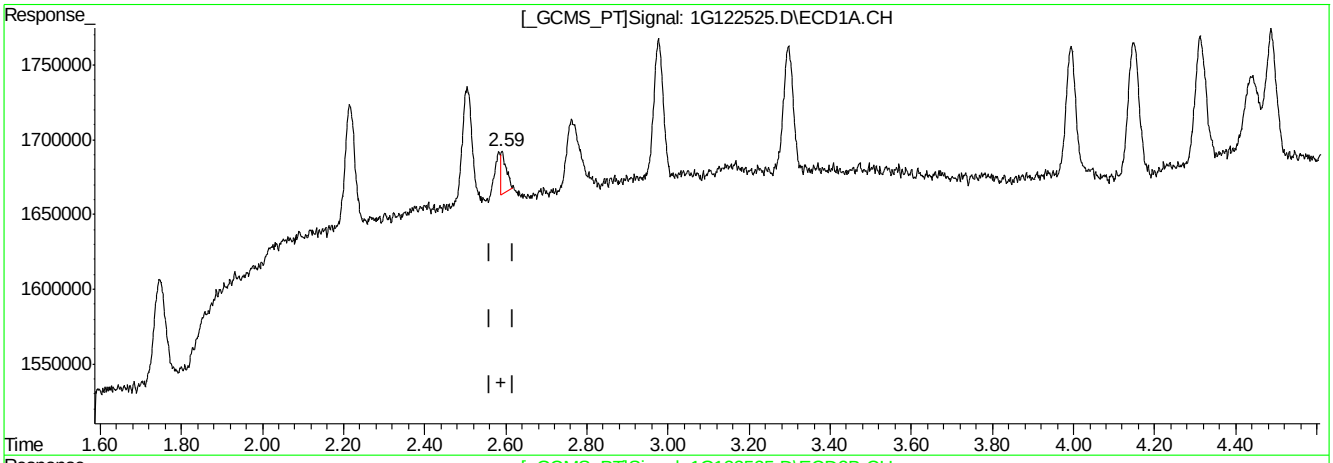
(+) = Expected Retention Time

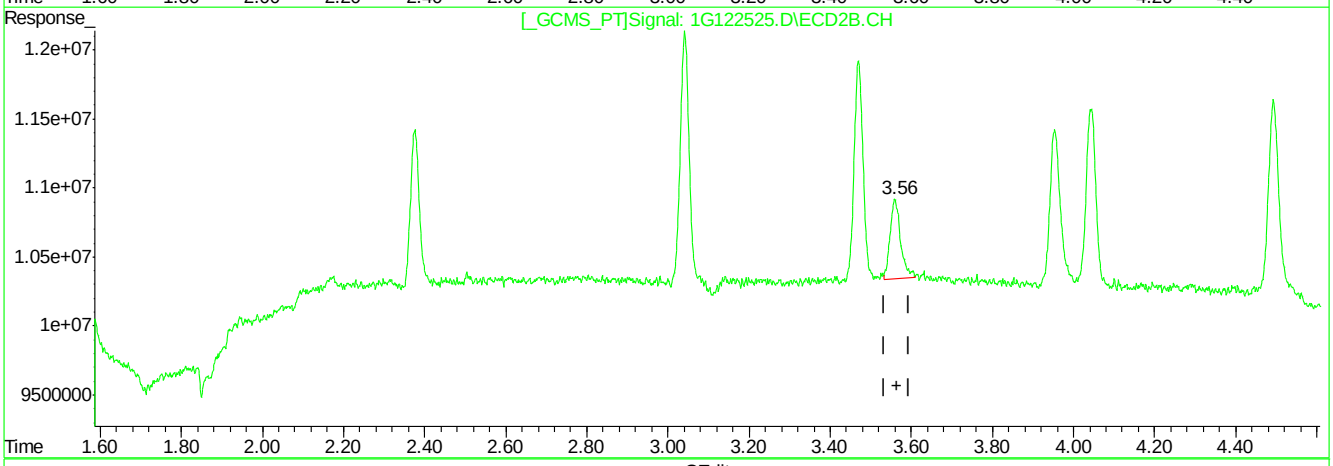
1G122525.D 1PST3973.M Wed Apr 27 14:08:57 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

2.59min 0.439PPB

response 274682

(6) beta-BHC #2 (B)

3.56min 1.257PPB

response 10223407

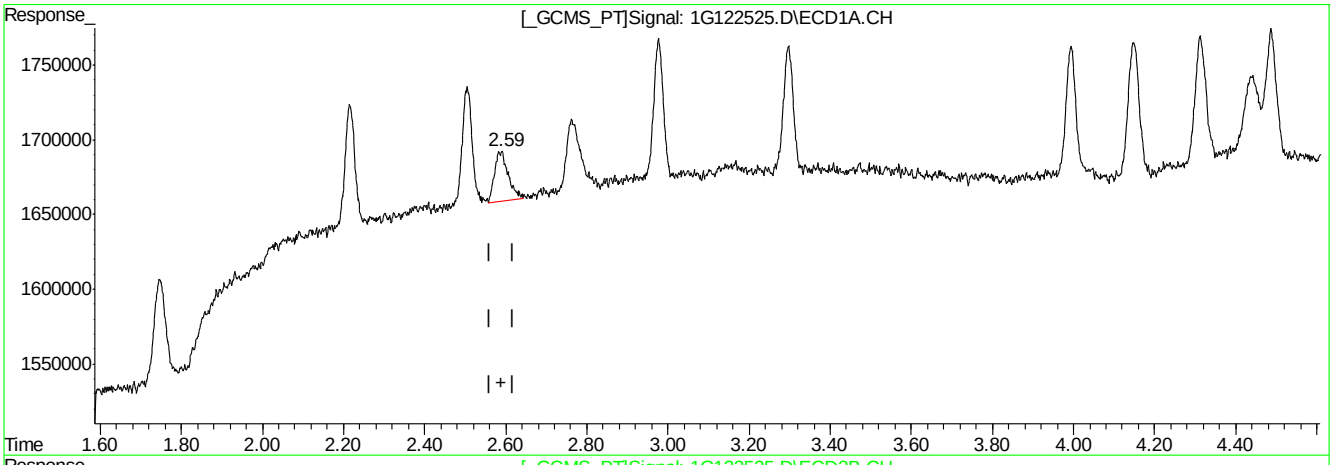
(+) = Expected Retention Time

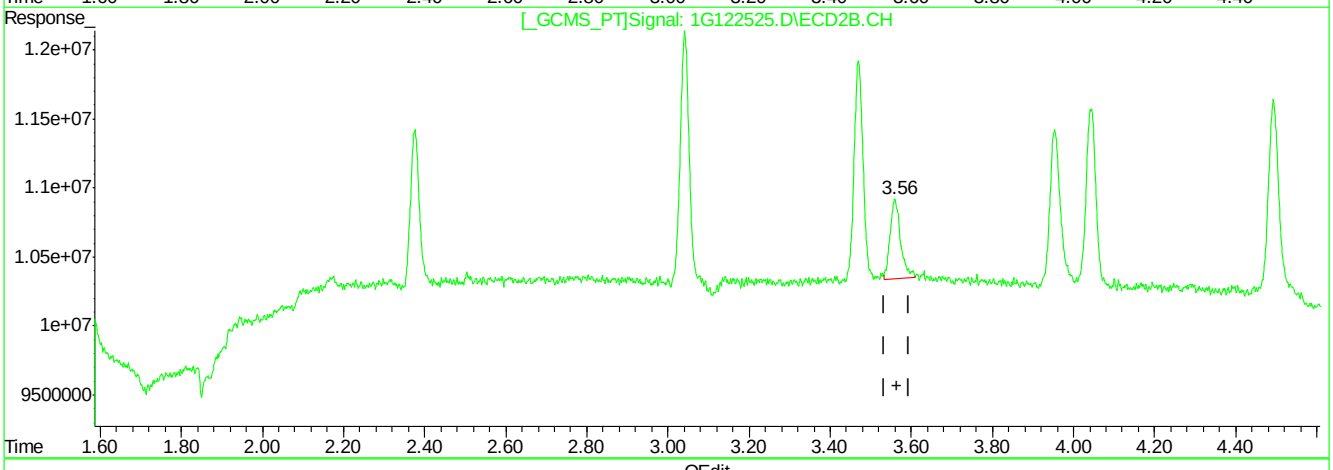
1G122525.D 1PST3973.M Wed Apr 27 14:09:04 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

2.59min 1.226PPB m

response 767796

(6) beta-BHC #2 (B)

3.56min 1.257PPB

response 10223407

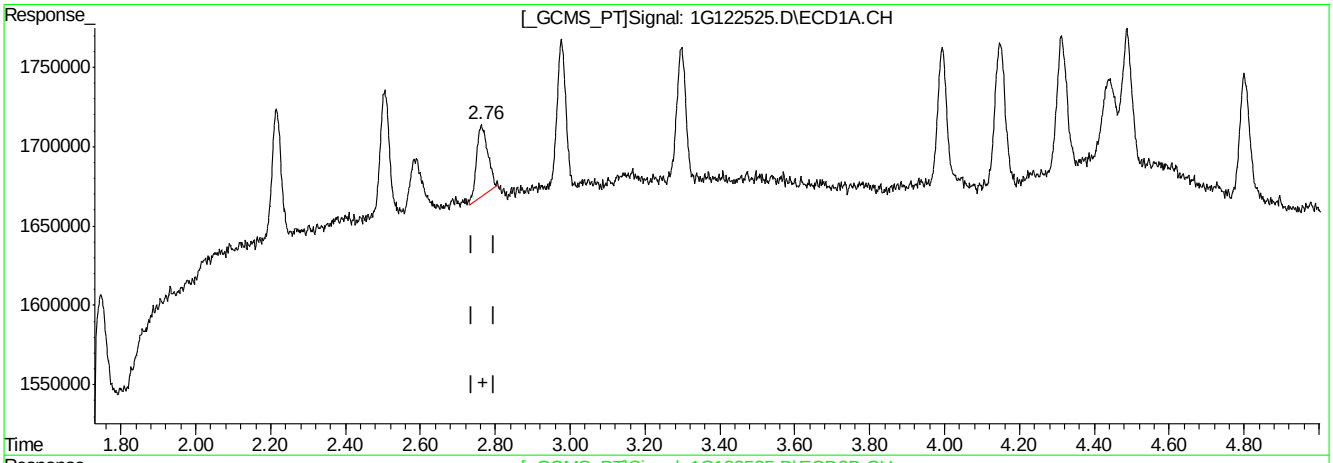
(+) = Expected Retention Time

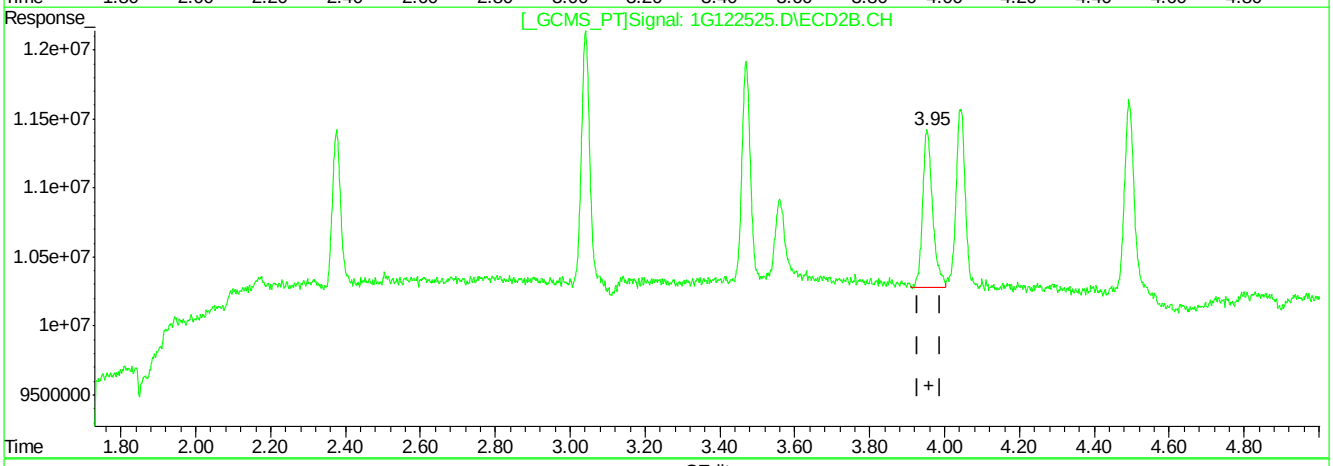
1G122525.D 1PST3973.M Wed Apr 27 14:09:15 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(7) delta-BHC (B)

2.76min 0.857PPB

response 929026

(7) delta-BHC #2 (B)

3.95min 1.207PPB

response 21214111

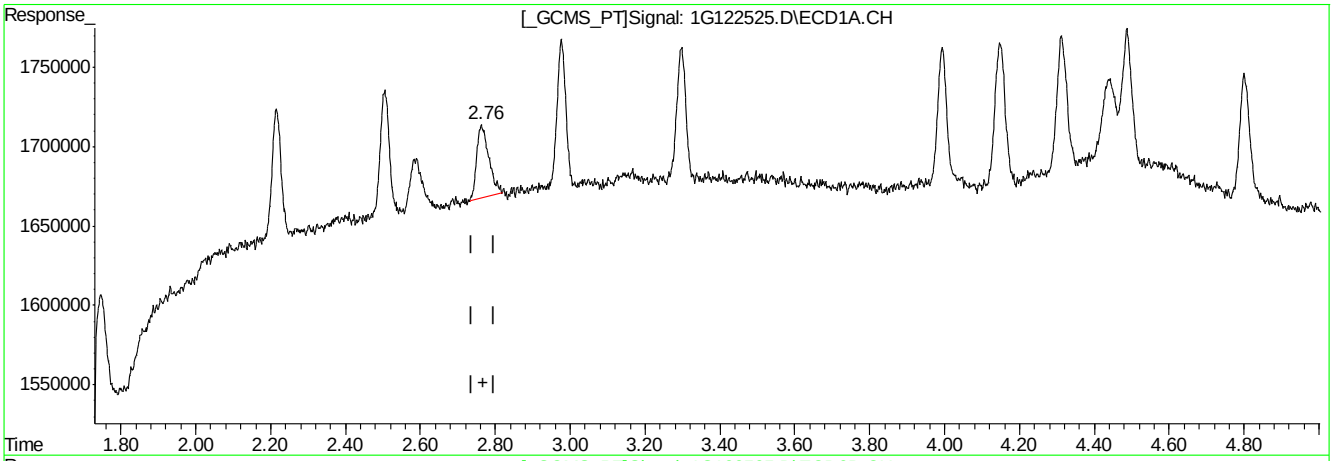
(+) = Expected Retention Time

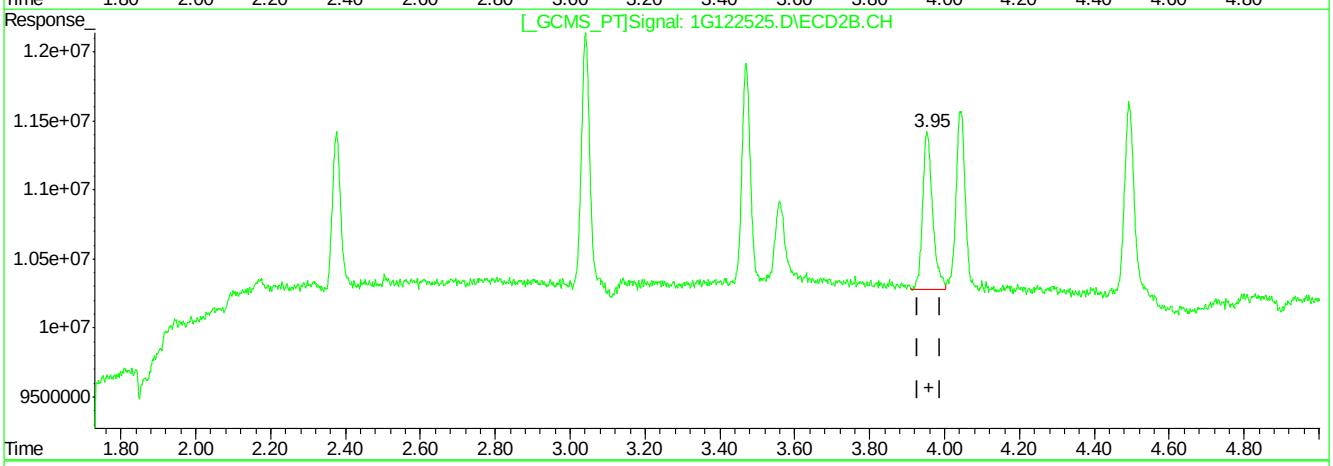
1G122525.D 1PST3973.M Wed Apr 27 14:09:25 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(7) delta-BHC (B)

2.76min 0.962PPB m

response 1042591

(7) delta-BHC #2 (B)

3.95min 1.207PPB

response 21214111

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:09:35 2016 RPT1

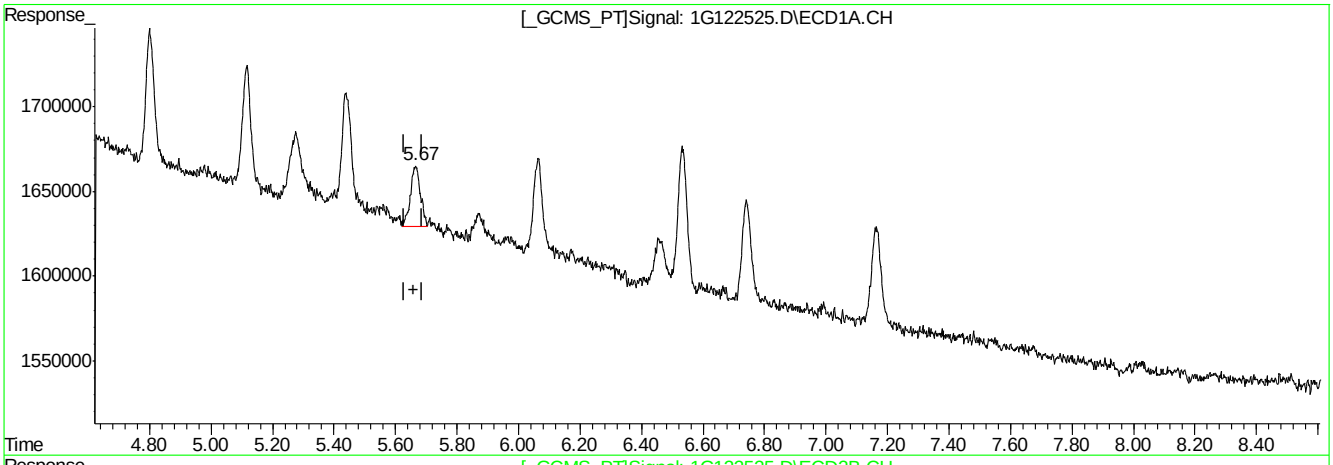
9.4.1.7

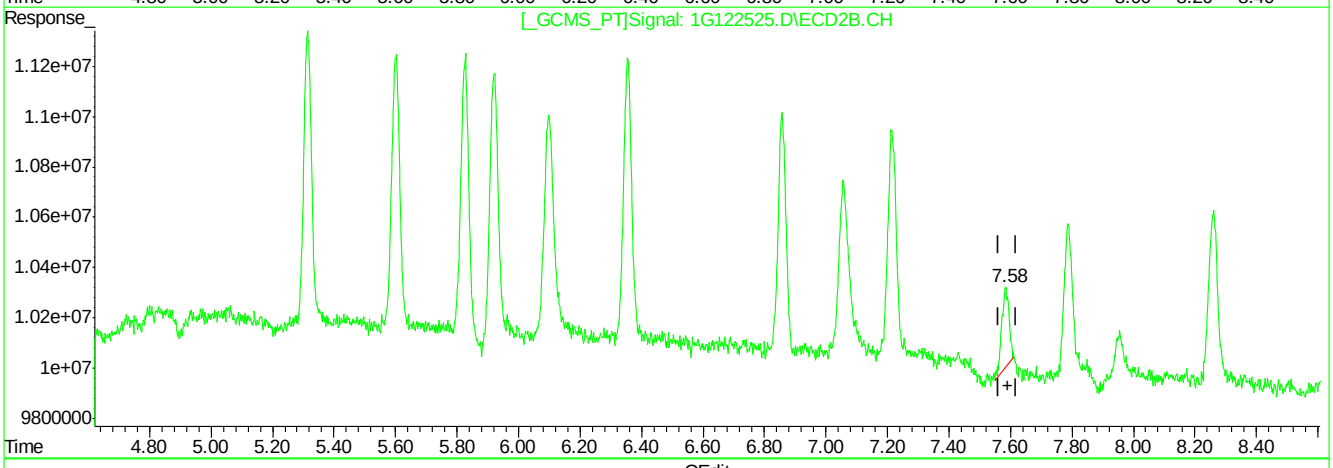
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.67min 0.885PPB

response 796168

(18) 4,4'-DDT #2 (MA)

7.58min 0.510PPB

response 5252690

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:09:52 2016 RPT1

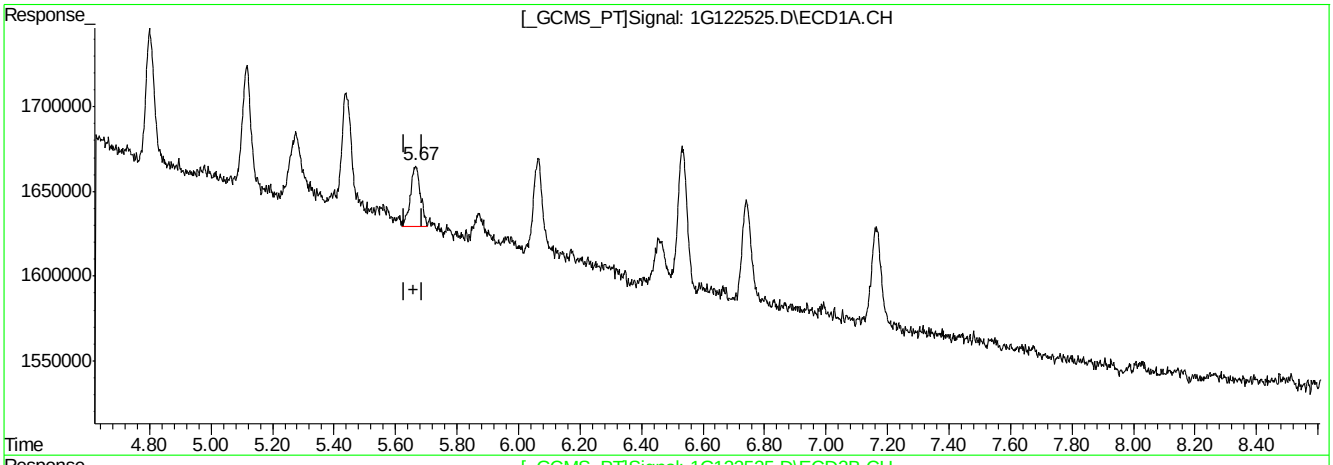
9.4.1.8

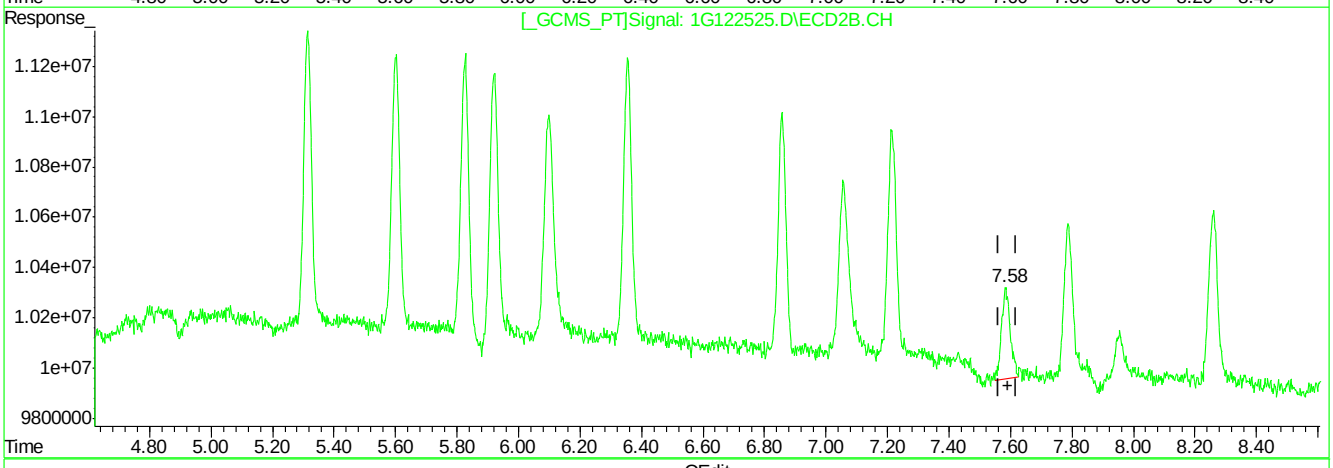
9

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.67min 0.885PPB

response 796168

(18) 4,4'-DDT #2 (MA)

7.58min 0.702PPB m

response 7231675

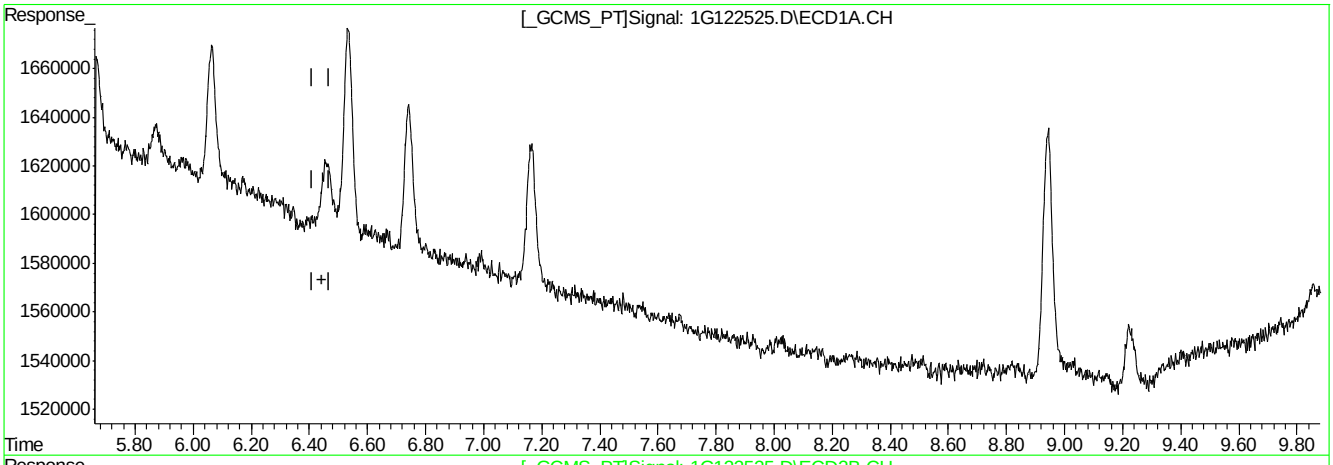
(+) = Expected Retention Time

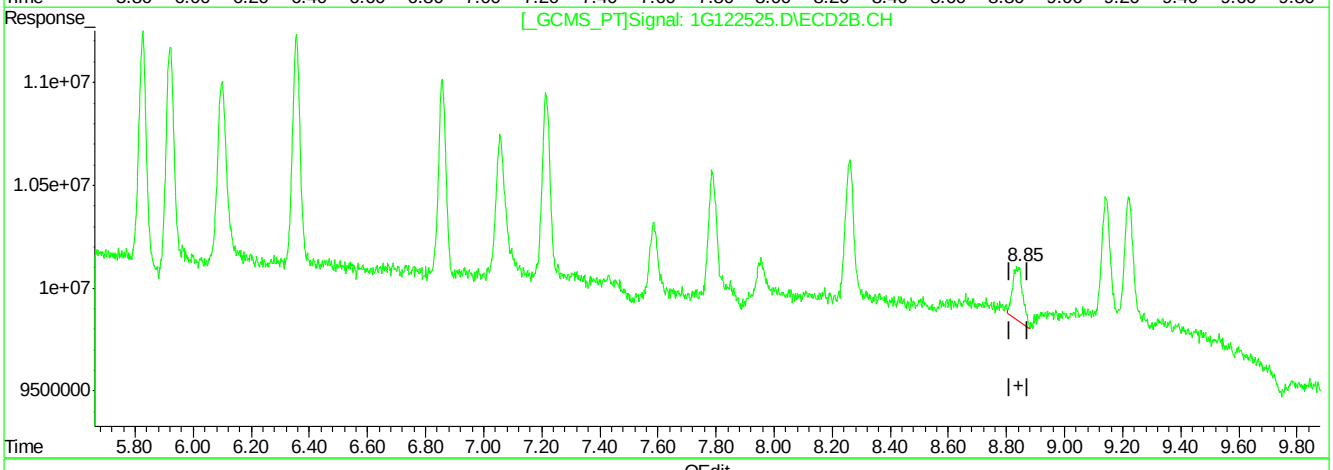
1G122525.D 1PST3973.M Wed Apr 27 14:10:03 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

0.00min 0.000PPB

response 0

(21) Methoxychlor #2 (A)

8.84min 1.130PPB

response 6175298

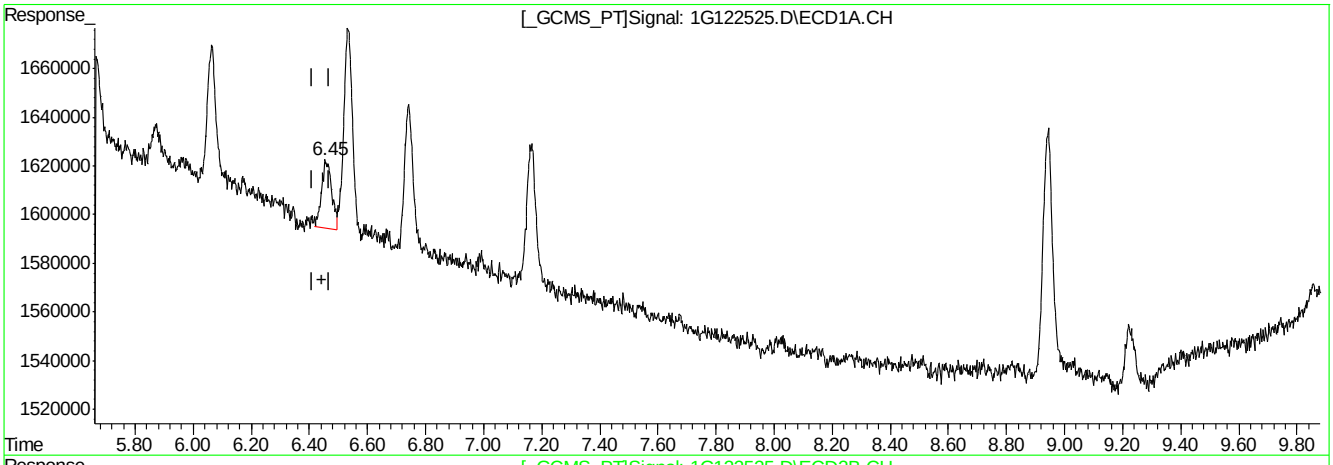
(+) = Expected Retention Time

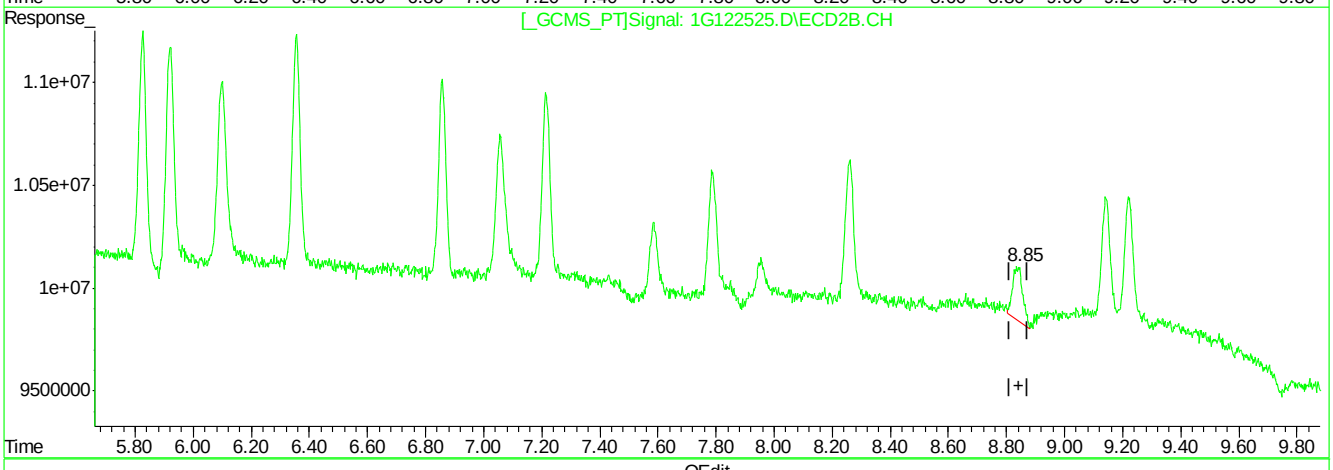
1G122525.D 1PST3973.M Wed Apr 27 14:10:08 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD1A.CH Vial: 3
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122525.D\ECD2B.CH
Acq On    : 27 Apr 2016  11:42 am                    Operator: dharas
Sample    : ic3973-1                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:08 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.45min 1.108PPB m

response 671673

(21) Methoxychlor #2 (A)

8.84min 1.130PPB

response 6175298

(+) = Expected Retention Time

1G122525.D 1PST3973.M Wed Apr 27 14:10:29 2016 RPT1

9.4.1.11

9

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On : 27 Apr 2016 12:00 pm Operator: dharas
Sample : ic3973-2 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	57633325	912.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	2500509	36944498	2.270m	2.574
Spiked Amount	40.000	Range	30 - 150	Recovery	=	5.67%#	6.43%#
24) SA	Decachlorobiphen	8.94	10.86	4511853	20895509	2.965	2.213
Spiked Amount	40.000			Recovery	=	7.41%	5.53%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	2722638	53227516	2.081	2.457
4) MA	gamma-BHC	2.51	3.47	2678077	47345704	2.145	2.433
5) MA	Heptachlor	2.98	4.04	3010664	43024430	2.245	2.459
6) B	beta-BHC	2.59	3.56	1349800	20351464	2.124	2.462
7) B	delta-BHC	2.76	3.95	2036067	43091402	1.852	2.411
8) MB	Aldrin	3.30	4.49	2909550	47920184	2.330	2.740
9) B	Heptachlor Epoxi	3.99	5.32	2922990	42354508	2.352	2.675
10) B	gamma-Chlordane	4.15	5.60	3063940	41289445	2.339	2.607
11) B	alpha-Chlordane	4.31	5.83	3055832	38326207	2.420	2.502
12) A	Endosulfan I	4.49	5.92	3419119	38999360	2.848	2.608
13) B	4,4'-DDE	4.44	6.10	2341551	39405602	2.030	2.499
14) MA	Dieldrin	4.80	6.36	2859749	41898176	2.353	2.502
15) MA	Endrin	5.12	6.86	2692376	36636272	2.368	2.522
16) A	4,4'-DDD	5.27	7.06	2051581	32925891	2.141	2.461
17) B	Endosulfan II	5.44	7.21	2718571	33773789	2.356	2.335
18) MA	4,4'-DDT	5.67	7.59	1546010	15633714	1.693	1.493
19) B	Endrin Aldehyde	6.06	7.79	2278504	24060058	2.331	2.145
20) B	Endosulfan Sulfa	6.74	8.26	2632691	29124099	2.511	2.392
21) A	Methoxychlor	6.46	8.84	1346844	11144013	2.190	2.005
22)	Mirex	6.53	9.14	3659545	23161258	3.141	2.488
23) B	Endrin Ketone	7.16	9.22	2554192	26246245	2.086	2.026

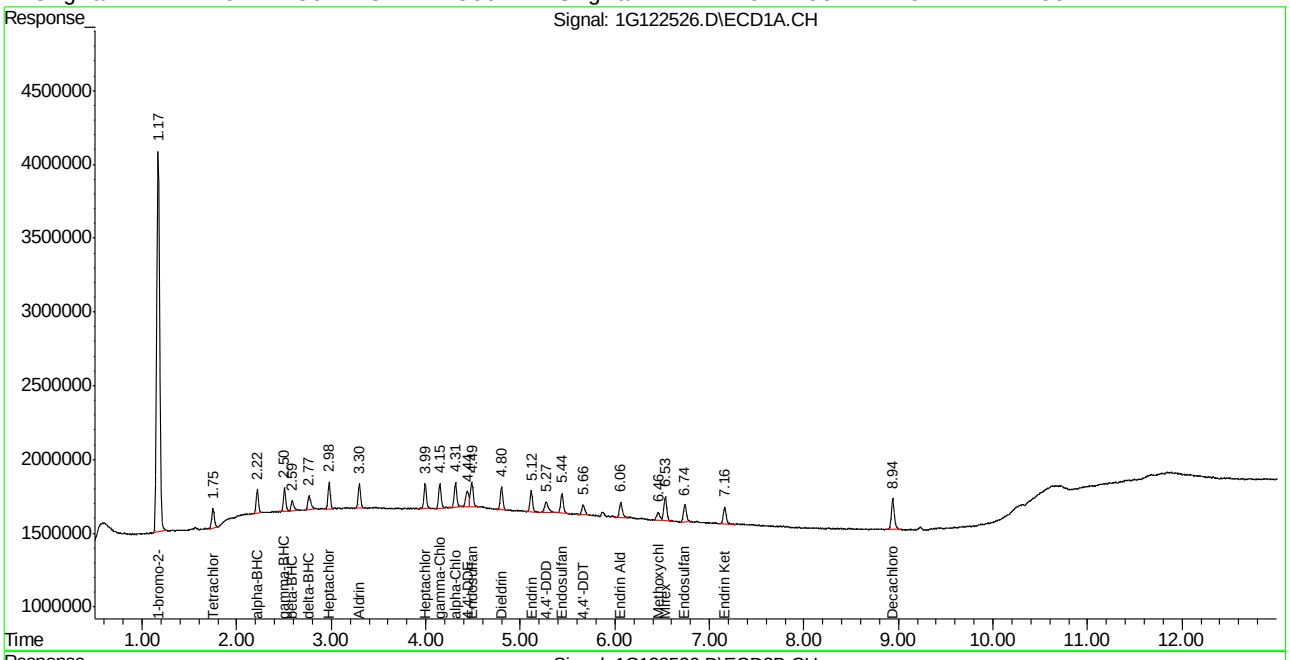
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122526.D 1PST3973.M Wed Apr 27 14:52:22 2016 RPT1 Page 1

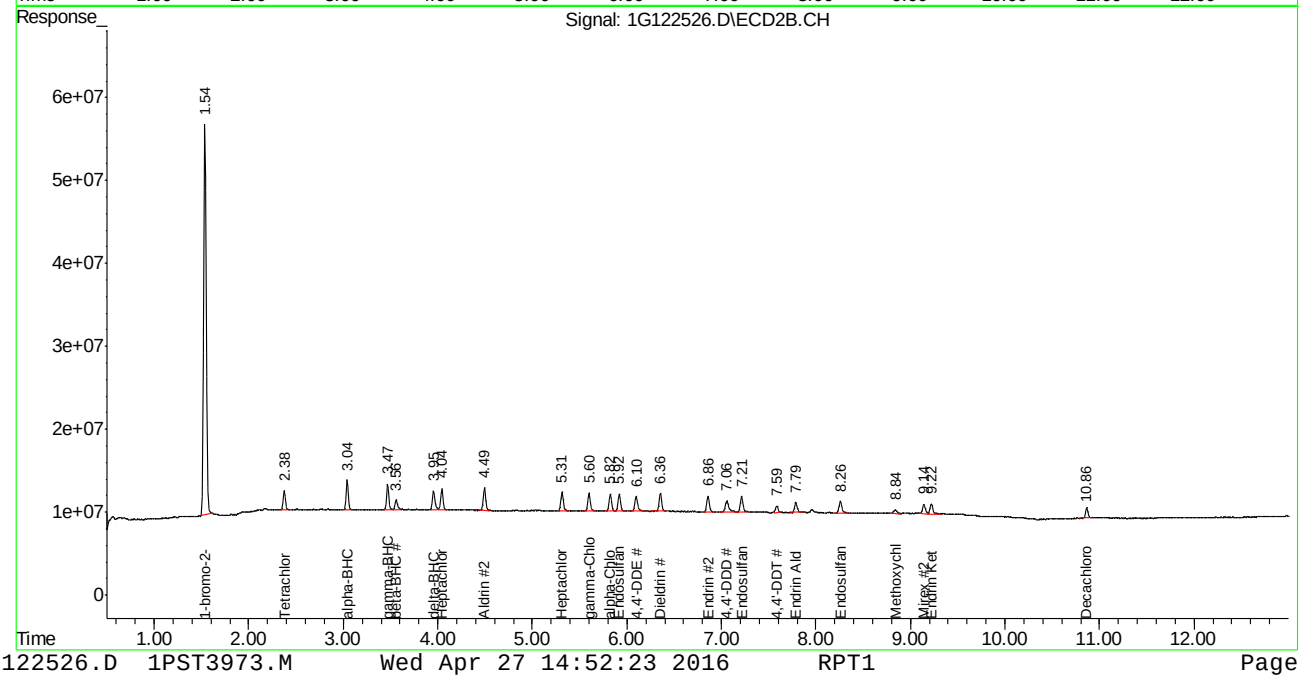
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On : 27 Apr 2016 12:00 pm Operator: dharas
Sample : ic3973-2 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

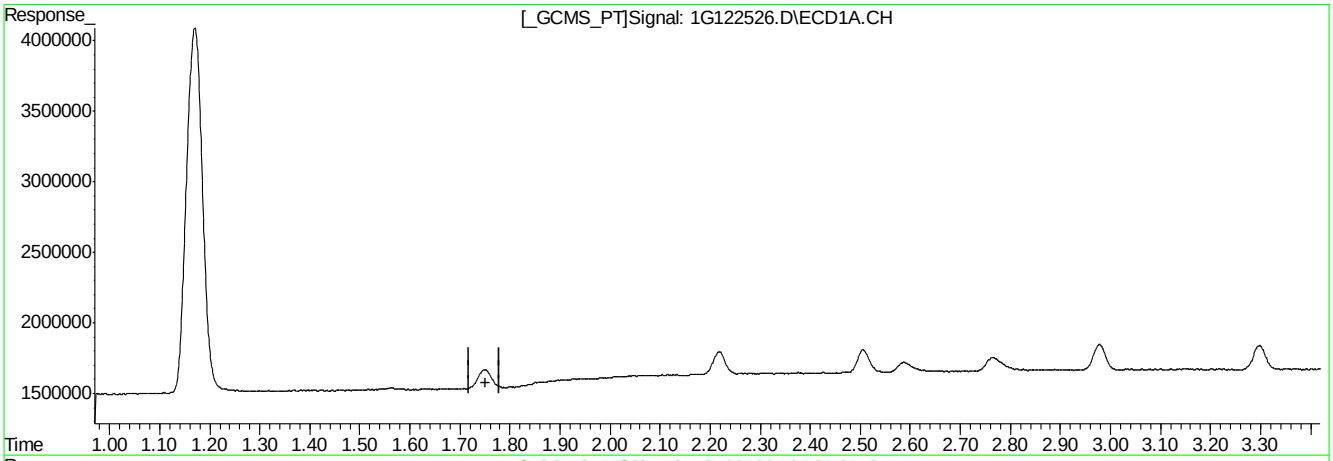
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122526.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 12:00	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

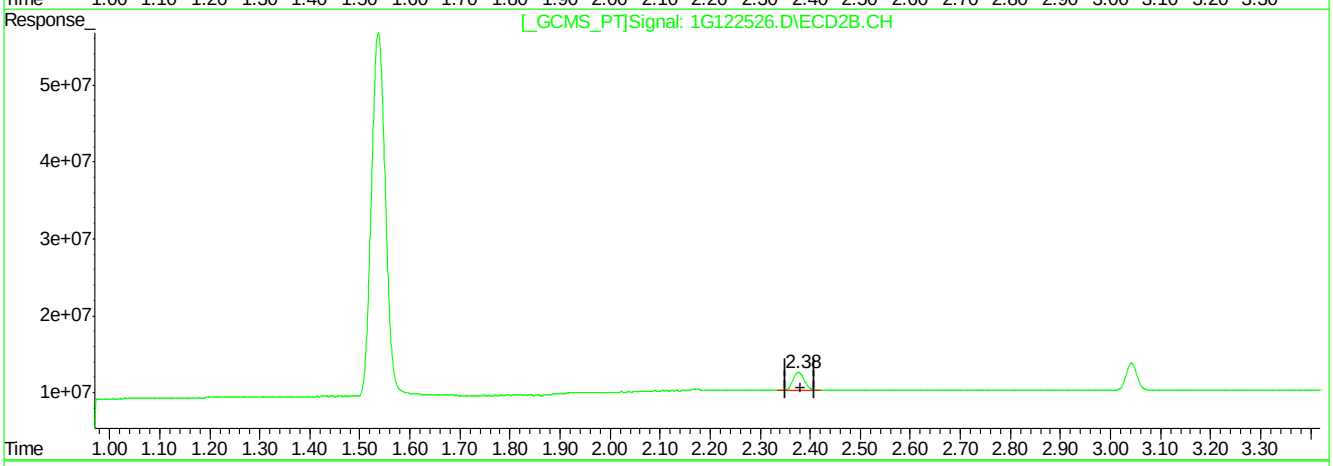
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.75	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:00 pm                    Operator: dharas
Sample    : ic3973-2                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:01 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

0.00min 0.000PPB

response 0

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 2.574PPB

response 36944498

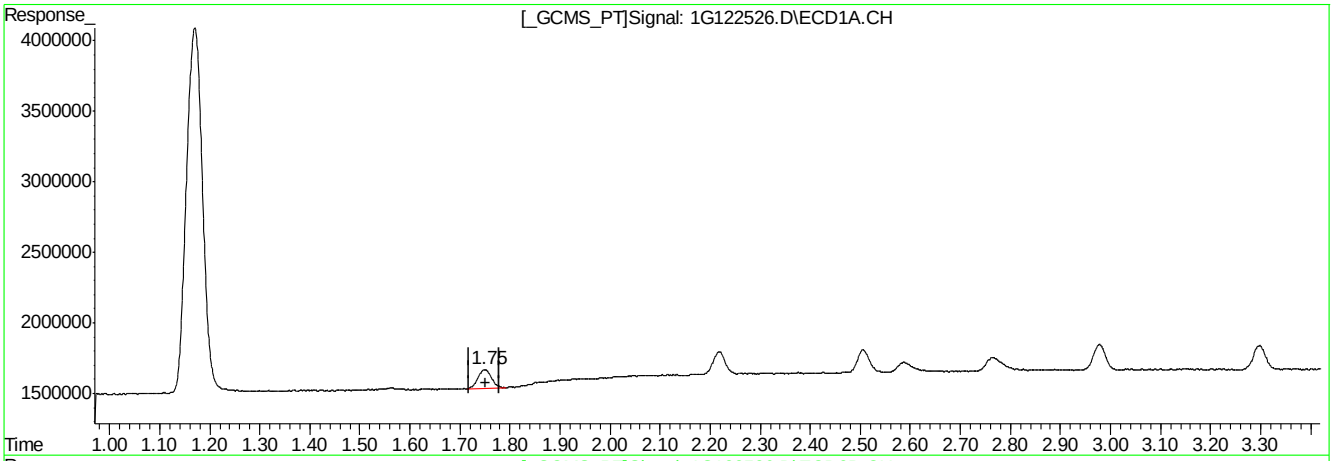
(+) = Expected Retention Time

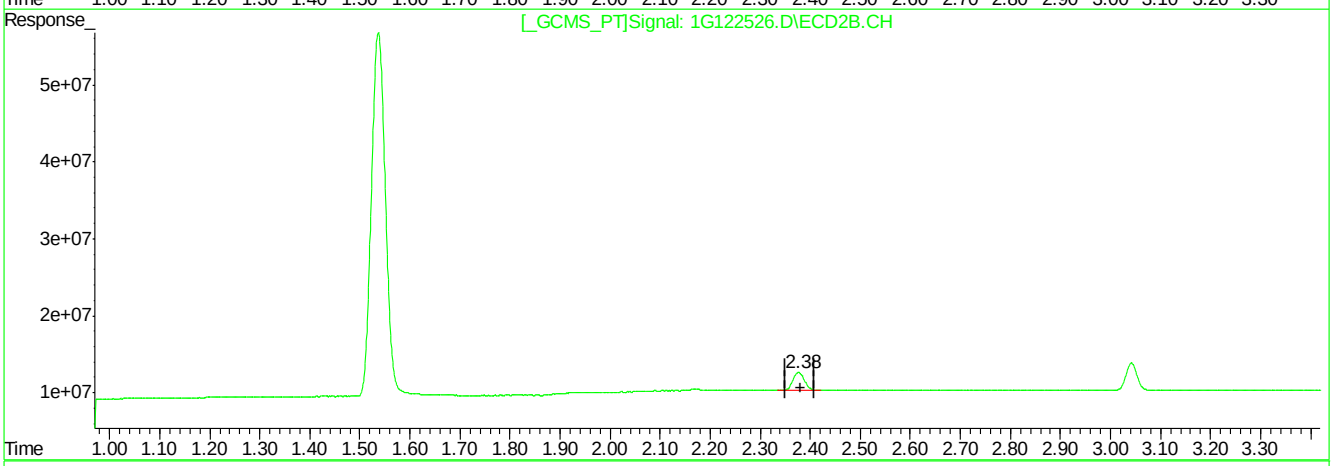
1G122526.D 1PST3973.M Wed Apr 27 14:01:42 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122526.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:00 pm                    Operator: dharas
Sample    : ic3973-2                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:01 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.75min 2.270PPB m

response 2500509

(2) Tetrachloro-m-xylene #2 (SAB)

2.38min 2.574PPB

response 36944498

(+) = Expected Retention Time

1G122526.D 1PST3973.M Wed Apr 27 14:01:51 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On : 27 Apr 2016 12:17 pm Operator: dharas
Sample : ic3973-5 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	59376848	941.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	5959406	89418990	5.250	6.035
Spiked Amount	40.000	Range	30 - 150	Recovery	=	13.13%#	15.09%#
24) SA	Decachlorobiphen	8.94	10.87	11235862	51284197	7.166	5.263
Spiked Amount	40.000			Recovery	=	17.91%	13.16%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	6930521	131.4E6	5.142	5.877
4) MA	gamma-BHC	2.51	3.47	6702663	116.2E6	5.211	5.782
5) MA	Heptachlor	2.98	4.04	7593219	102.2E6	5.496	5.658
6) B	beta-BHC	2.59	3.56	3573830	47934749	5.460	5.617
7) B	delta-BHC	2.76	3.95	5695508	108.9E6	5.029	5.905
8) MB	Aldrin	3.30	4.49	7184456	110.1E6	5.584	6.101
9) B	Heptachlor Epoxi	3.99	5.31	7587232	97356924	5.926	5.956
10) B	gamma-Chlordane	4.15	5.60	7466781	95840412	5.533	5.861
11) B	alpha-Chlordane	4.31	5.83	7578168	92573334	5.826	5.855
12) A	Endosulfan I	4.49	5.92	8136429	93390506	6.578	6.049
13) B	4,4'-DDE	4.44	6.10	5959039	89558750	5.014	5.502
14) MA	Dieldrin	4.80	6.36	6982120	99608080	5.575	5.763
15) MA	Endrin	5.12	6.86	6706685	87508282	5.725	5.835
16) A	4,4'-DDD	5.27	7.06	4908525	78921875	4.972	5.713
17) B	Endosulfan II	5.44	7.21	6803006	83563592	5.723	5.596
18) MA	4,4'-DDT	5.67	7.58	4458722	46205056	4.739	4.275
19) B	Endrin Aldehyde	6.06	7.79	5487378	60666126	5.448	5.241
20) B	Endosulfan Sulfa	6.74	8.26	6349219	70803625	5.878	5.633
21) A	Methoxychlor	6.46	8.84	3198879	25411206	5.049	4.429m
22)	Mirex	6.53	9.14	8520685	57121955	7.098	5.944
23) B	Endrin Ketone	7.16	9.22	6036975	61894771	4.785	4.629

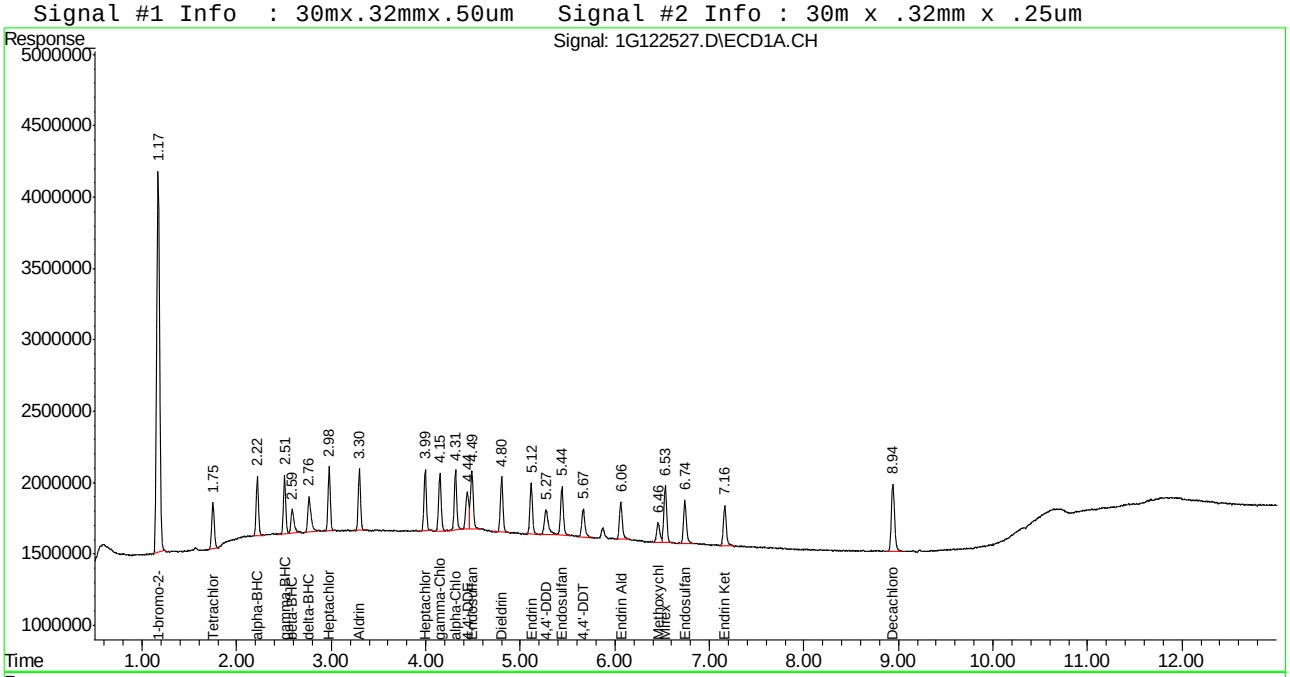
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122527.D 1PST3973.M Wed Apr 27 14:52:38 2016 RPT1 Page 1

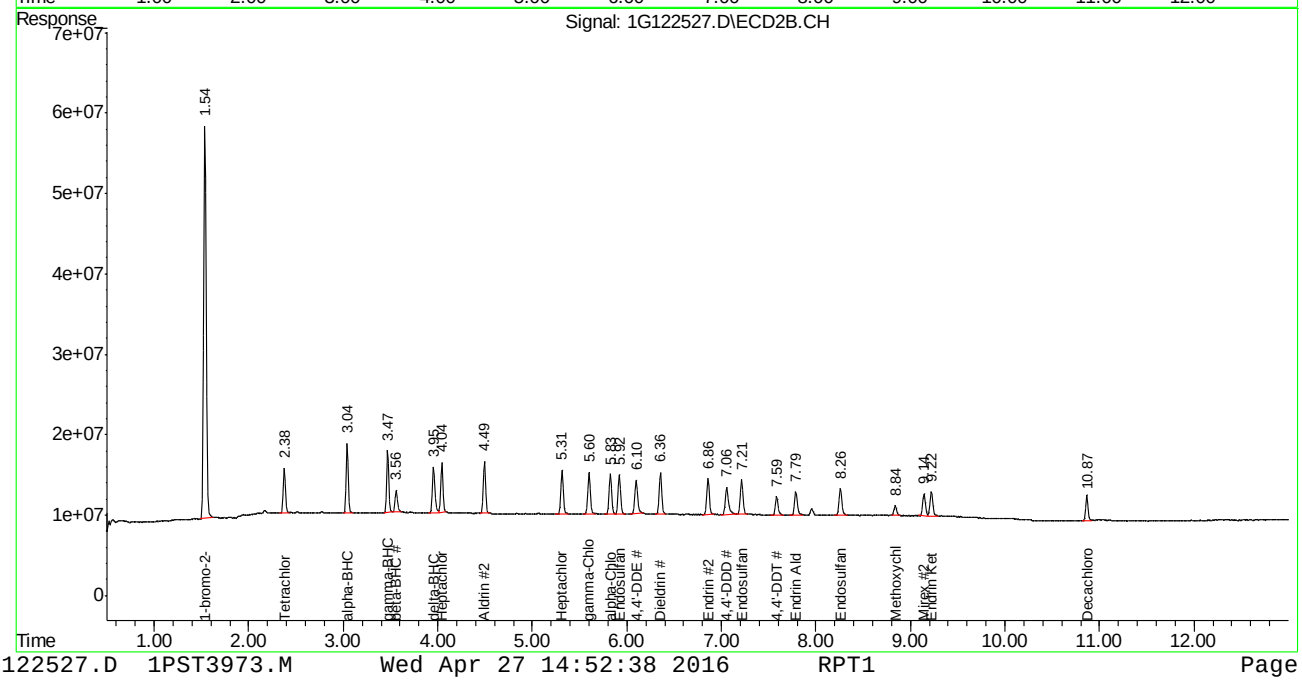
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On : 27 Apr 2016 12:17 pm Operator: dharas
Sample : ic3973-5 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

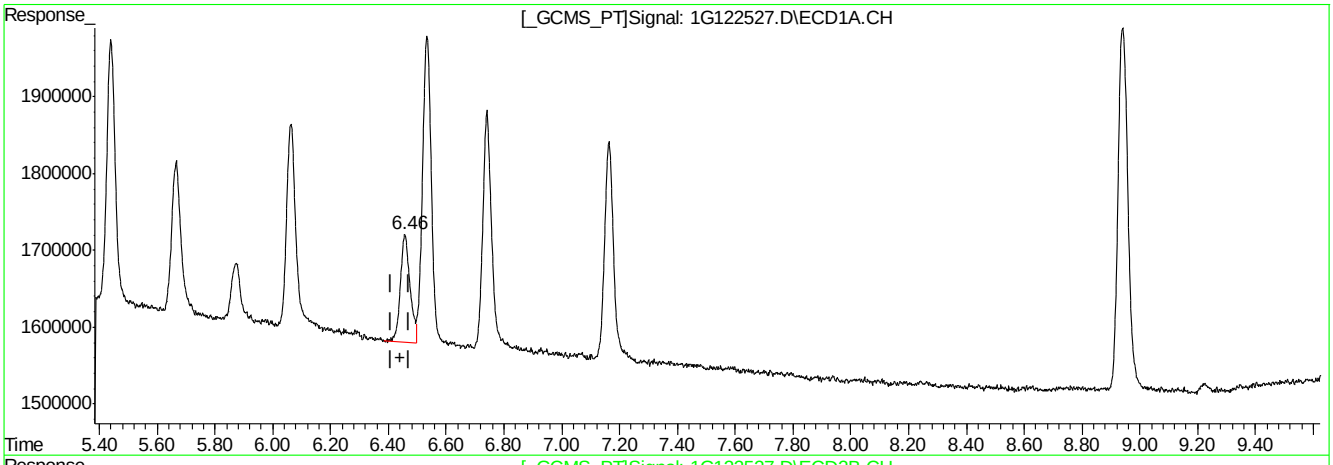
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122527.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 12:17	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

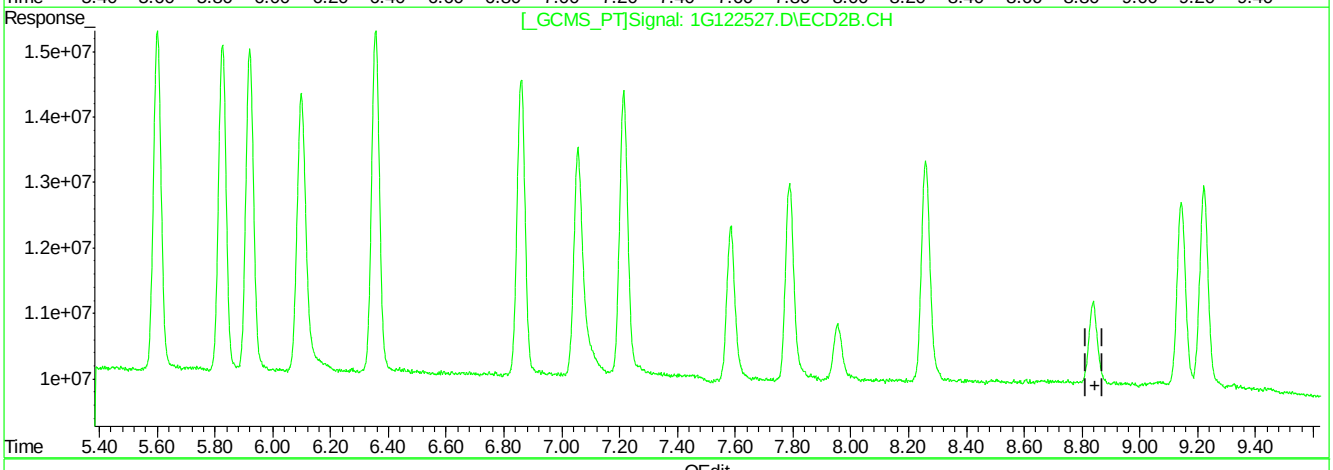
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	2	8.84	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:17 pm                    Operator: dharas
Sample    : ic3973-5                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 13:58 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.46min 5.049PPB

response 3198879

(21) Methoxychlor #2 (A)

0.00min 0.000PPB

response 0

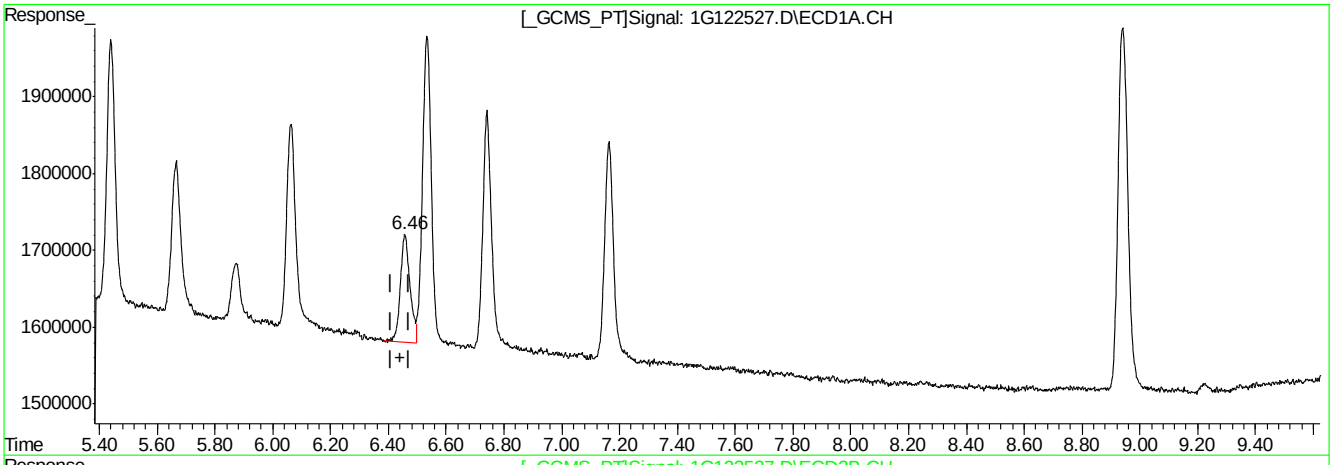
(+) = Expected Retention Time

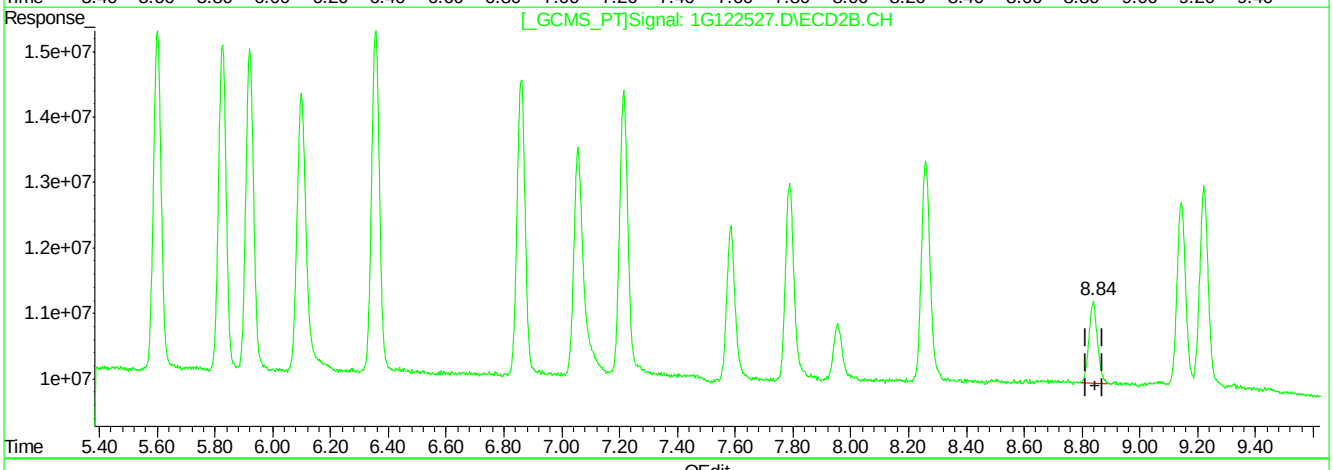
1G122527.D 1PST3973.M Wed Apr 27 13:59:18 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122527.D\ECD2B.CH
Acq On    : 27 Apr 2016  12:17 pm                    Operator: dharas
Sample    : ic3973-5                                 Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 13:58 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.46min 5.049PPB

response 3198879

(21) Methoxychlor #2 (A)

8.84min 4.429PPB m

response 25411206

(+) = Expected Retention Time

1G122527.D 1PST3973.M Wed Apr 27 13:59:28 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD2B.CH
Acq On : 27 Apr 2016 12:35 pm Operator: dharas
Sample : ic3973-10 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	58121382	919.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	11787238	169.9E6	10.609	11.737
Spiked Amount	40.000	Range	30 - 150	Recovery	=	26.52%#	29.34%#
24) SA	Decachlorobiphen	8.94	10.87	21558565	98416103	14.047	10.338
Spiked Amount	40.000			Recovery	=	35.12%	25.84%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	13637256	253.3E6	10.336	11.599
4) MA	gamma-BHC	2.51	3.47	13261905	223.3E6	10.533	11.379
5) MA	Heptachlor	2.98	4.04	14822755	193.4E6	10.960	10.963
6) B	beta-BHC	2.59	3.56	6866002	92728116	10.716	11.123
7) B	delta-BHC	2.77	3.96	11620460	207.6E6	10.482	11.522
8) MB	Aldrin	3.30	4.49	14303611	206.9E6	11.358	11.733
9) B	Heptachlor Epoxi	3.99	5.32	15073603	187.5E6	12.027	11.744
10) B	gamma-Chlordane	4.15	5.60	14616554	182.2E6	11.065	11.405
11) B	alpha-Chlordane	4.31	5.83	14754656	175.5E6	11.588	11.361
12) A	Endosulfan I	4.49	5.92	16142689	174.2E6	13.333	11.553
13) B	4,4'-DDE	4.44	6.10	11751595	172.9E6	10.102	10.872
14) MA	Dieldrin	4.80	6.36	14177272	188.3E6	11.566	11.153
15) MA	Endrin	5.12	6.86	13392548	167.6E6	11.679	11.438
16) A	4,4'-DDD	5.27	7.06	10871327	153.3E6	11.249	11.360
17) B	Endosulfan II	5.44	7.21	13971775	162.1E6	12.008	11.113
18) MA	4,4'-DDT	5.67	7.58	9136314	99514402	9.921	9.425
19) B	Endrin Aldehyde	6.06	7.79	11384740	120.5E6	11.547	10.659
20) B	Endosulfan Sulfa	6.74	8.26	12581438	135.0E6	11.899	10.990
21) A	Methoxychlor	6.46	8.84	6425859	52739104	10.361	9.410
22)	Mirex	6.54	9.14	16014284	108.0E6	13.629	11.507
23) B	Endrin Ketone	7.16	9.22	12210084	123.0E6	9.887	9.417

(f)=RT Delta > 1/2 Window (m)=manual int.

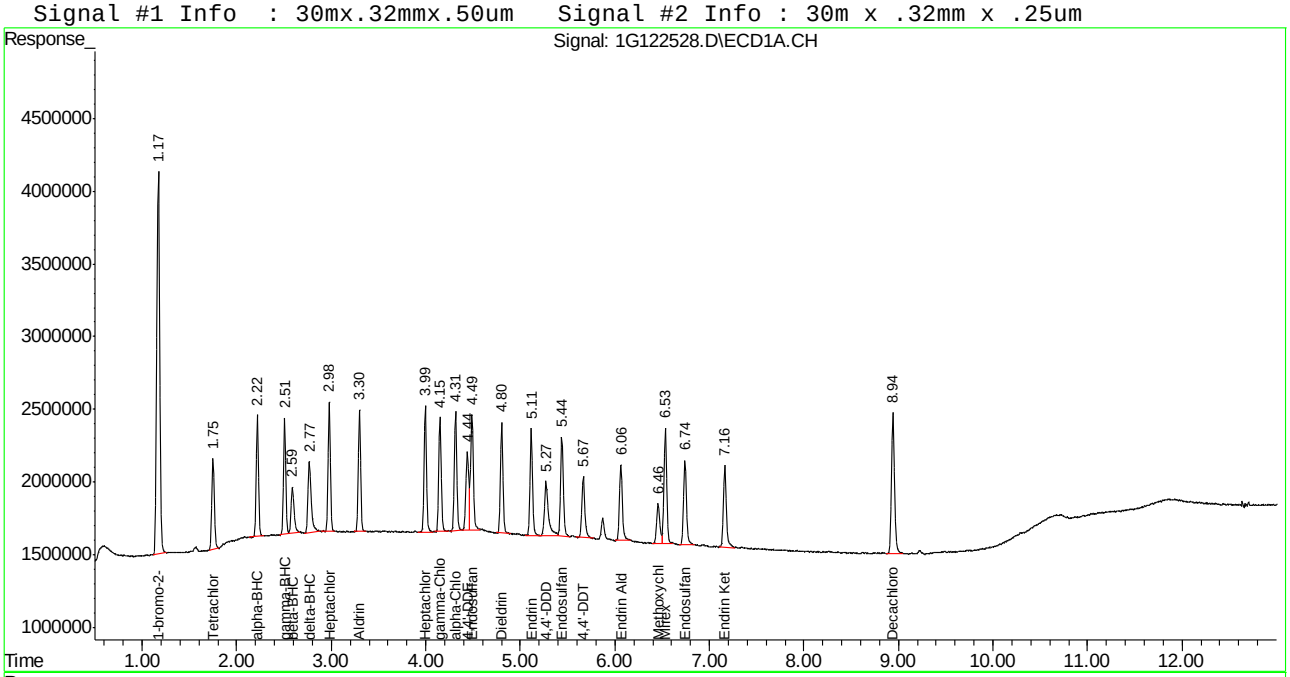
SGS ACCUTEST JC19214

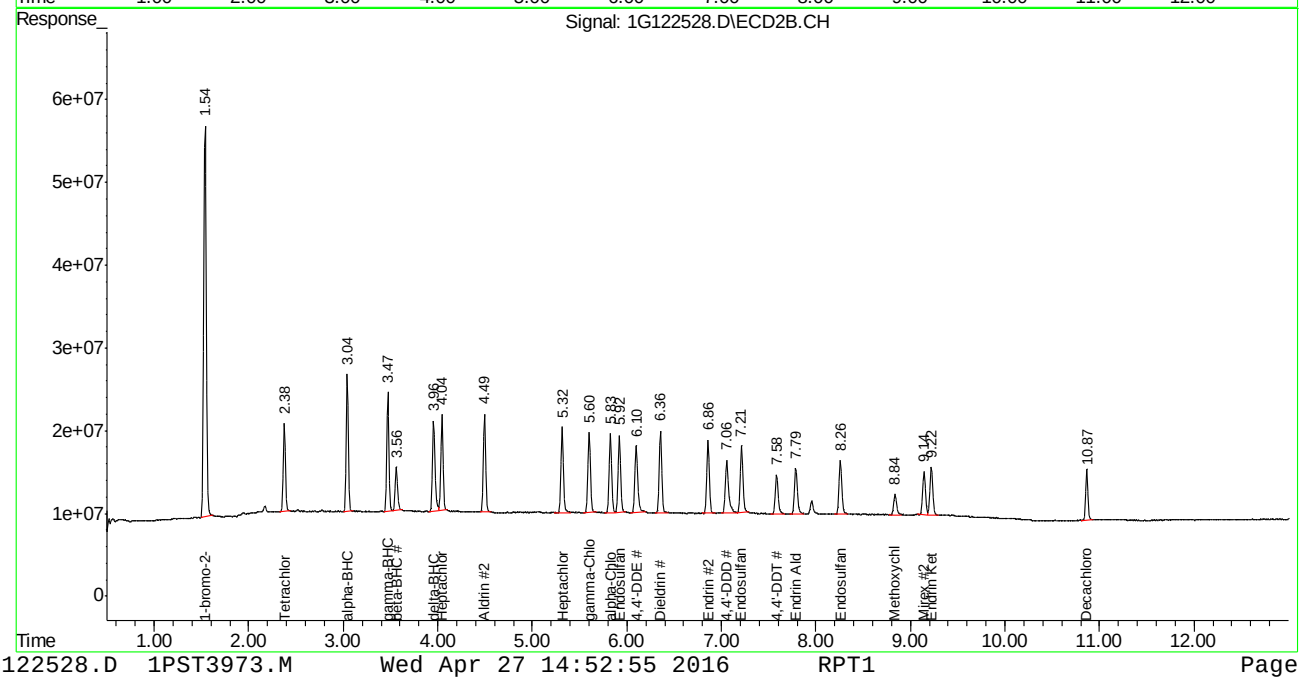
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122528.D\ECD2B.CH
Acq On : 27 Apr 2016 12:35 pm Operator: dharas
Sample : ic3973-10 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:52 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD2B.CH
Acq On : 27 Apr 2016 12:52 pm Operator: dharas
Sample : icc3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:53 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	57466784	909.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	29571761	405.6E6	26.918	28.346
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	67.29%	70.86%
24) SA	Decachlorobiphen	8.94	10.87	53044296	236.9E6	34.956	25.169
	Spiked Amount 40.000			Recovery	=	87.39%	62.92%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	36643968	618.0E6	28.091	28.620
4) MA	gamma-BHC	2.51	3.47	35518061	549.7E6	28.531	28.334
5) MA	Heptachlor	2.98	4.04	39004730	476.7E6	29.170	27.333
6) B	beta-BHC	2.59	3.56	17348175	234.3E6	27.384	28.434
7) B	delta-BHC	2.76	3.96	30165605	516.2E6	27.520	28.978
8) MB	Aldrin	3.30	4.49	37637191	499.0E6	30.226	28.622
9) B	Heptachlor Epoxi	3.99	5.32	39040122	449.9E6	31.504	28.504
10) B	gamma-Chlordane	4.15	5.60	37850680	445.3E6	28.981	28.198
11) B	alpha-Chlordane	4.31	5.83	38048145	424.9E6	30.222	27.828
12) A	Endosulfan I	4.49	5.92	41523624	423.4E6	34.686	28.399
13) B	4,4'-DDE	4.44	6.10	29925300	436.6E6	26.017	27.774
14) MA	Dieldrin	4.80	6.36	37306244	458.7E6	30.780	27.480
15) MA	Endrin	5.12	6.86	34832521	405.0E6	30.723	27.965
16) A	4,4'-DDD	5.27	7.05	27645217	376.7E6	28.932	28.237
17) B	Endosulfan II	5.44	7.21	36083487	406.7E6	31.364	28.203
18) MA	4,4'-DDT	5.66	7.58	26087301	275.2E6	28.651	26.367
19) B	Endrin Aldehyde	6.06	7.79	29284491	302.1E6	30.040	27.028
20) B	Endosulfan Sulfa	6.74	8.26	32858227	332.4E6	31.429	27.387
21) A	Methoxychlor	6.46	8.84	17086512	139.4E6	27.865	25.169
22)	Mirex	6.53	9.14	40546243	257.4E6	34.901	27.735
23) B	Endrin Ketone	7.16	9.22	32465905	307.6E6	26.589	23.821

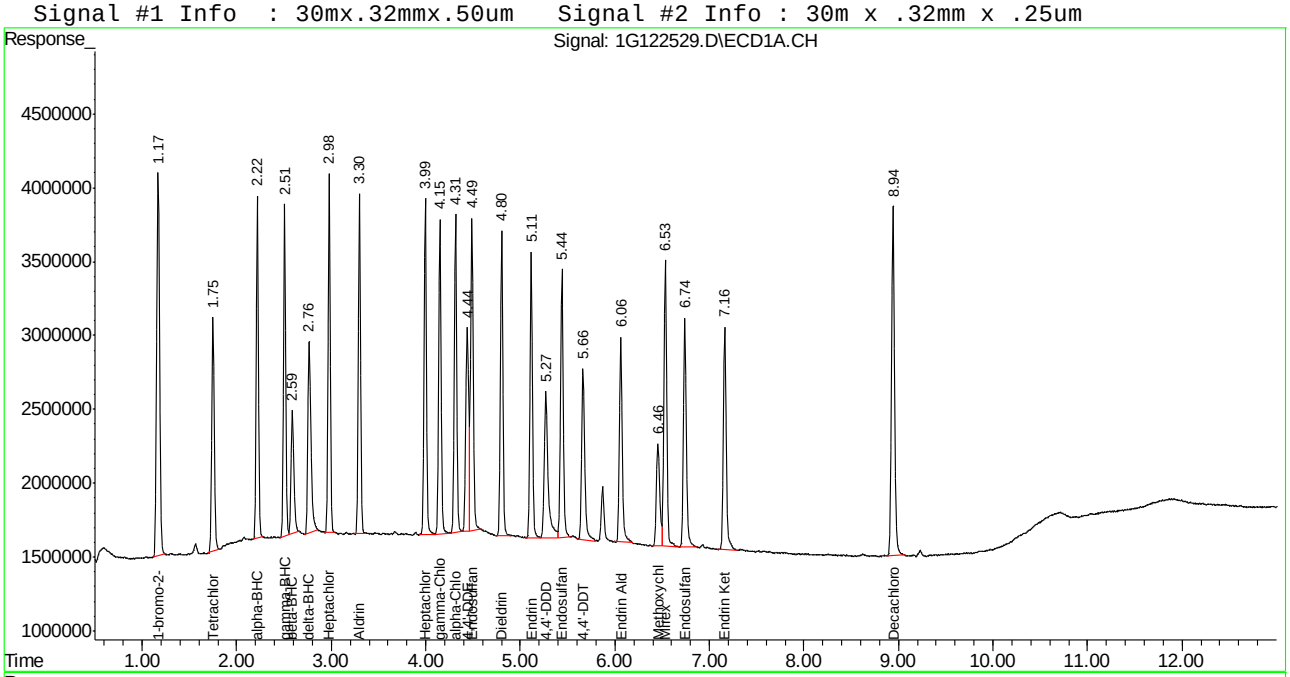
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122529.D 1PST3973.M Wed Apr 27 14:53:18 2016 RPT1 Page 1

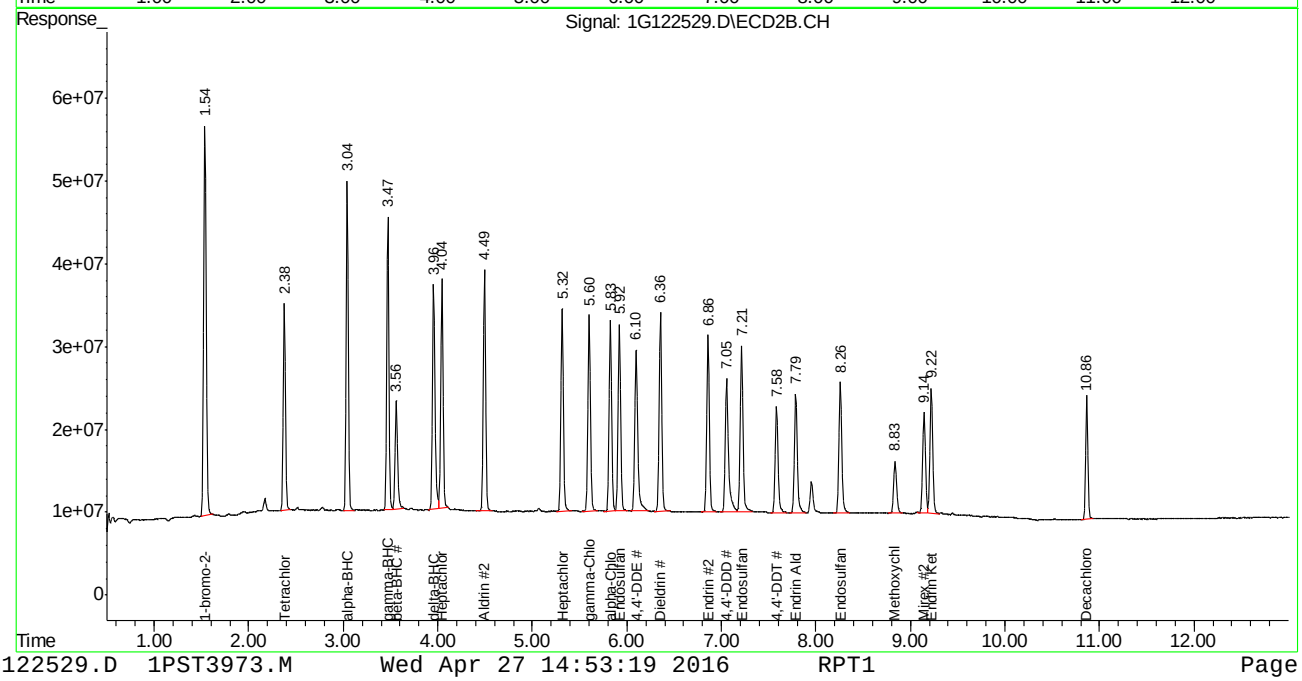
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122529.D\ECD2B.CH
Acq On : 27 Apr 2016 12:52 pm Operator: dharas
Sample : icc3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:53 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD2B.CH
Acq On : 4-27-16 01:10:20 PM Operator: dharas
Sample : ic3973-50 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:13 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	57794331	914.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	58342609	782.6E6	52.806	54.410
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	132.01%	136.03%
24) SA	Decachlorobiphen	8.94	10.86	102.2E6	449.8E6	66.942	47.545
	Spiked Amount 40.000			Recovery	=	167.35%	118.86%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	78612301	1190.9E6	59.921	54.865
4) MA	gamma-BHC	2.51	3.47	75134203	1061.1E6	60.011	54.409
5) MA	Heptachlor	2.98	4.04	80719976	928.4E6	60.025	52.951
6) B	beta-BHC	2.59	3.56	34721171	457.0E6	54.496	55.161
7) B	delta-BHC	2.77	3.96	66182222	1018.1E6	60.036	56.854
8) MB	Aldrin	3.30	4.49	78771248	936.6E6	62.902	53.435
9) B	Heptachlor Epoxi	3.99	5.31	78602650	845.3E6	63.070	53.269
10) B	gamma-Chlordane	4.15	5.60	77903136	836.1E6	59.309	52.669
11) B	alpha-Chlordane	4.31	5.83	77733080	799.2E6	61.394	52.070
12) A	Endosulfan I	4.49	5.92	83705314	791.7E6	69.525	52.828
13) B	4,4'-DDE	4.44	6.10	63110726	827.3E6	54.558	52.354
14) MA	Dieldrin	4.80	6.36	77617680	862.9E6	63.677	51.425
15) MA	Endrin	5.11	6.86	71990966	772.5E6	63.138	53.067
16) A	4,4'-DDD	5.27	7.05	52055620	713.0E6	54.170	53.171
17) B	Endosulfan II	5.44	7.21	70885456	764.9E6	61.265	52.765
18) MA	4,4'-DDT	5.66	7.58	55487632	560.5E6	60.596	53.416
19) B	Endrin Aldehyde	6.06	7.79	59424199	572.9E6	60.612	50.978
20) B	Endosulfan Sulfa	6.74	8.26	66158880	635.8E6	62.923	52.101
21) A	Methoxychlor	6.45	8.84	34113502	279.2E6	55.318	50.138
22)	Mirex	6.53	9.14	77043395	493.0E6	65.940	52.846
23) B	Endrin Ketone	7.16	9.22	67882288	603.2E6	55.279	46.475

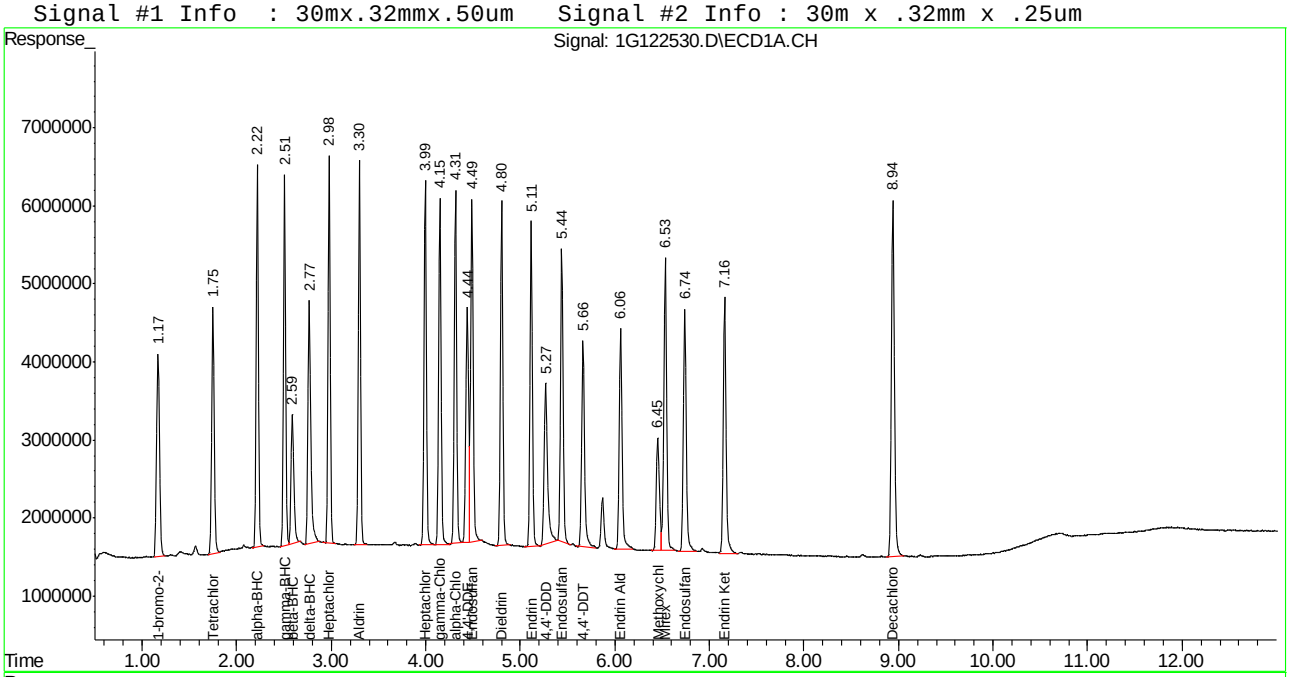
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122530.D 1PST3973.M Wed Apr 27 16:13:33 2016 RPT1 Page 1

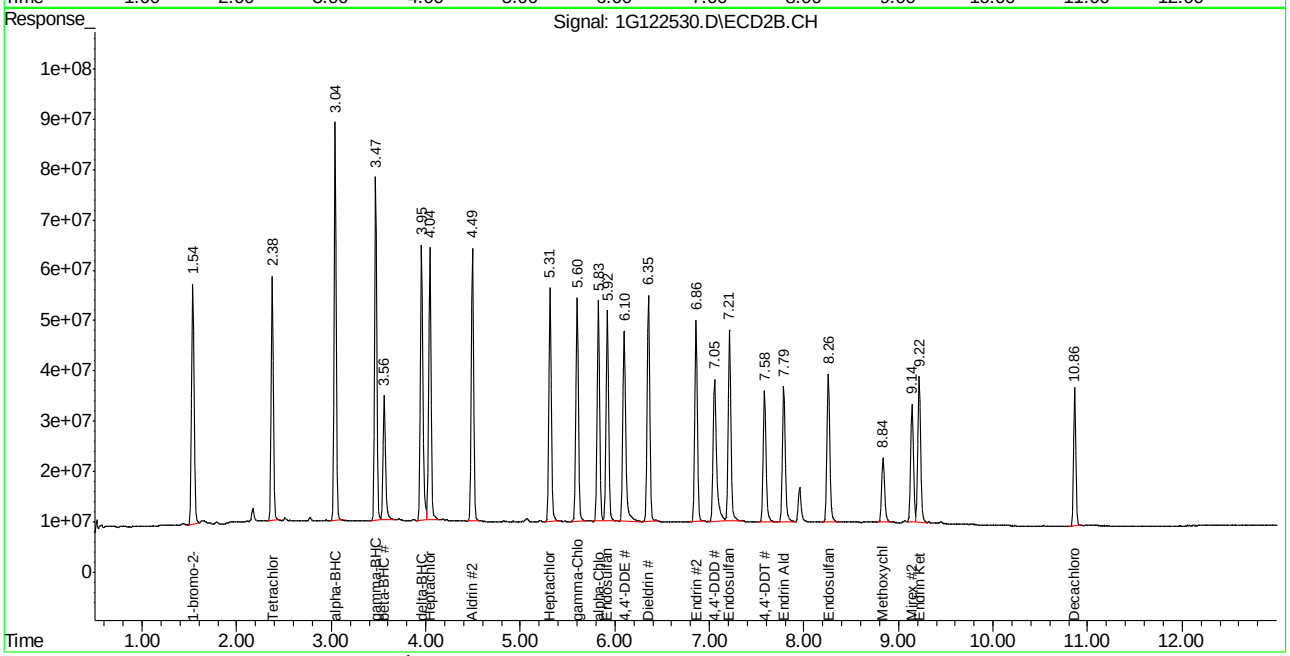
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122530.D\ECD2B.CH
Acq On : 4-27-16 01:10:20 PM Operator: dharas
Sample : ic3973-50 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:13 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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 JC19214

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD2B.CH
Acq On : 4-27-16 01:27:50 PM Operator: dharas
Sample : ic3973-75 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:54 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	58879836	935.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	89129610	1164.5E6	79.184	79.119
Spiked Amount	40.000	Range	30 - 150	Recovery	=	197.96%#	197.80%#
24) SA	Decachlorobiphen	8.94	10.86	152.3E6	662.8E6	97.987	68.476
Spiked Amount	40.000			Recovery	=	244.97%	171.19%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	126.9E6	1790.7E6	94.908	80.628
4) MA	gamma-BHC	2.51	3.47	119.9E6	1590.8E6	94.021	79.715
5) MA	Heptachlor	2.98	4.05	127.0E6	1385.0E6	92.703	77.201
6) B	beta-BHC	2.59	3.56	53595161	679.3E6	82.569	80.137
7) B	delta-BHC	2.77	3.95	106.4E6	1535.5E6	94.761	83.797
8) MB	Aldrin	3.30	4.49	124.8E6	1383.5E6	97.825	77.142
9) B	Heptachlor Epoxi	4.00	5.32	122.1E6	1241.2E6	96.195	76.445
10) B	gamma-Chlordane	4.15	5.60	121.5E6	1238.4E6	90.803	76.242
11) B	alpha-Chlordane	4.31	5.83	120.8E6	1181.9E6	93.627	75.260
12) A	Endosulfan I	4.49	5.92	129.7E6	1164.7E6	105.764	75.950
13) B	4,4'-DDE	4.44	6.10	99507577	1224.7E6	84.437	75.739
14) MA	Dieldrin	4.80	6.36	122.9E6	1275.0E6	99.003	74.260
15) MA	Endrin	5.12	6.86	112.9E6	1140.5E6	97.164	76.564
16) A	4,4'-DDD	5.27	7.05	87188642	1047.0E6	89.058	76.303
17) B	Endosulfan II	5.44	7.21	114.0E6	1125.1E6	96.748	75.845
18) MA	4,4'-DDT	5.66	7.58	90104809	849.9E6	96.586	79.163
19) B	Endrin Aldehyde	6.06	7.79	92077834	847.1E6	92.187	73.669
20) B	Endosulfan Sulfa	6.74	8.26	102.8E6	934.0E6	96.014	74.802
21) A	Methoxychlor	6.45	8.84	52887930	427.7E6	84.181	75.050
22)	Mirex	6.53	9.14	115.7E6	724.5E6	97.227	75.901
23) B	Endrin Ketone	7.16	9.22	104.8E6	895.0E6	83.736	67.386

(f)=RT Delta > 1/2 Window (m)=manual int.

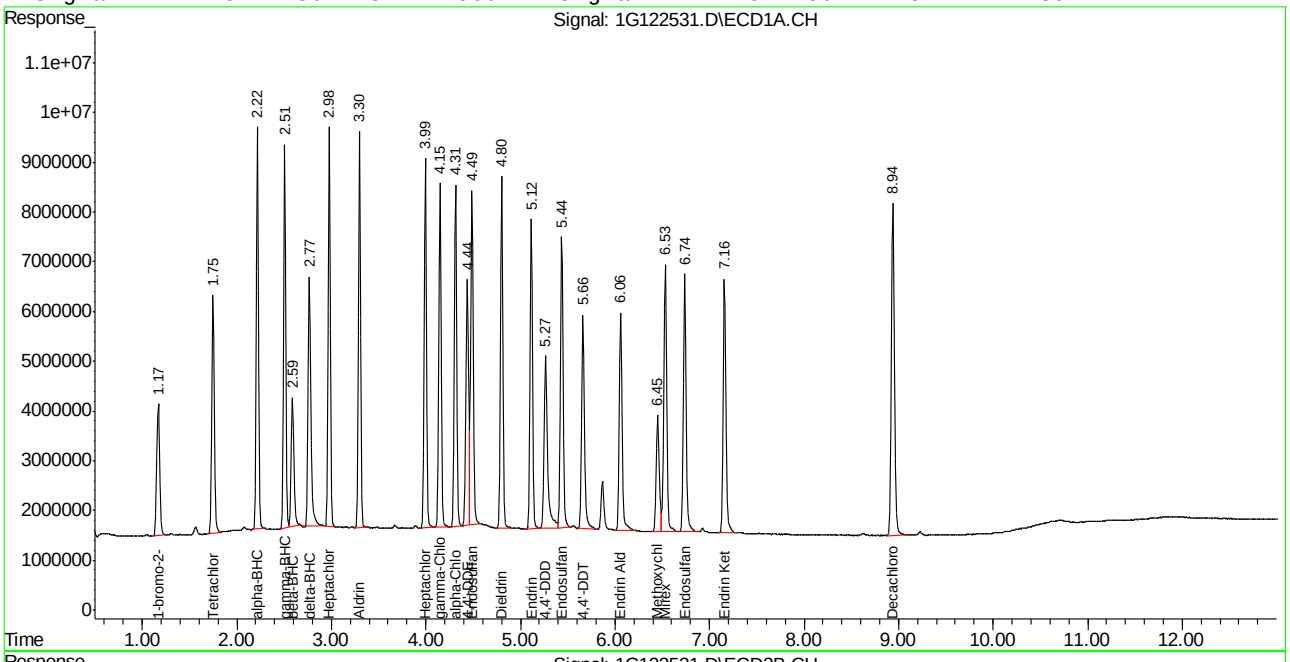
SGS ACCUTEST JC19214

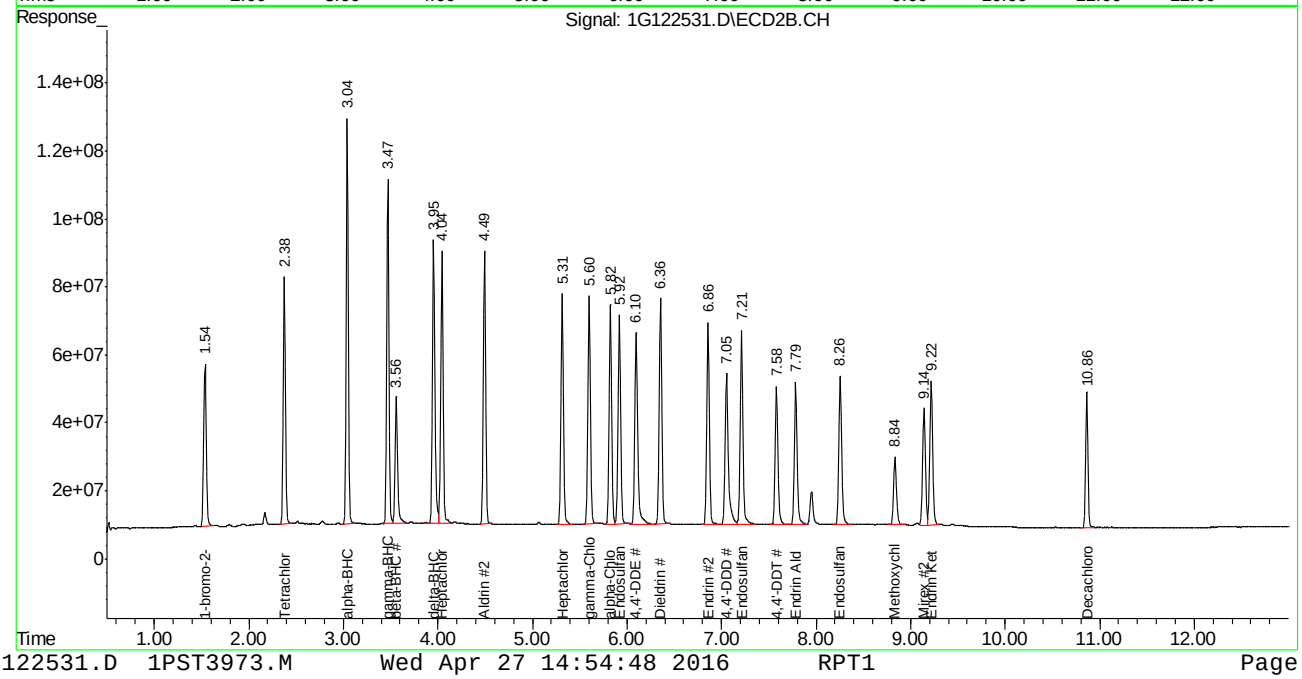
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122531.D\ECD2B.CH
Acq On : 4-27-16 01:27:50 PM Operator: dharas
Sample : ic3973-75 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:54 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD2B.CH
Acq On : 4-27-16 01:45:26 PM Operator: dharas
Sample : ic3973-100 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	59226745	940.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	121.9E6	1550.5E6	107.680	104.765
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	269.20%#	261.91%#
24) SA	Decachlorobiphen	8.94	10.87	204.9E6	888.3E6	131.022	91.259
	Spiked Amount 40.000			Recovery	=	327.56%	228.15%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	180.7E6	2408.1E6	134.377	107.824
4) MA	gamma-BHC	2.51	3.47	170.0E6	2140.5E6	132.463	106.668
5) MA	Heptachlor	2.98	4.04	177.4E6	1843.2E6	128.757	102.177
6) B	beta-BHC	2.59	3.56	75984655	911.0E6	116.376	106.871
7) B	delta-BHC	2.77	3.95	152.8E6	2060.8E6	135.240	111.841
8) MB	Aldrin	3.30	4.49	175.0E6	1845.2E6	136.372	102.315
9) B	Heptachlor Epoxi	4.00	5.32	169.6E6	1642.5E6	132.809	100.596
10) B	gamma-Chlordane	4.15	5.60	170.0E6	1667.6E6	126.293	102.099
11) B	alpha-Chlordane	4.31	5.82	168.7E6	1582.3E6	129.982	100.192
12) A	Endosulfan I	4.49	5.92	182.4E6	1560.8E6	147.862	101.219
13) B	4,4'-DDE	4.44	6.10	140.3E6	1655.8E6	118.372	101.835
14) MA	Dieldrin	4.80	6.36	172.6E6	1719.4E6	138.197	99.588
15) MA	Endrin	5.11	6.86	157.2E6	1513.2E6	134.506	101.022
16) A	4,4'-DDD	5.26	7.05	122.5E6	1399.0E6	124.408	101.392
17) B	Endosulfan II	5.44	7.21	158.5E6	1494.5E6	133.645	100.189
18) MA	4,4'-DDT	5.66	7.58	129.1E6	1153.0E6	137.614	106.800
19) B	Endrin Aldehyde	6.06	7.79	128.0E6	1132.5E6	127.427	97.940
20) B	Endosulfan Sulfa	6.74	8.26	141.9E6	1237.8E6	131.677	98.583
21) A	Methoxychlor	6.45	8.84	72530175	584.7E6	114.769	102.030
22)	Mirex	6.53	9.14	155.3E6	962.5E6	129.708	100.275
23) B	Endrin Ketone	7.16	9.22	145.4E6	1210.9E6	115.572	90.667

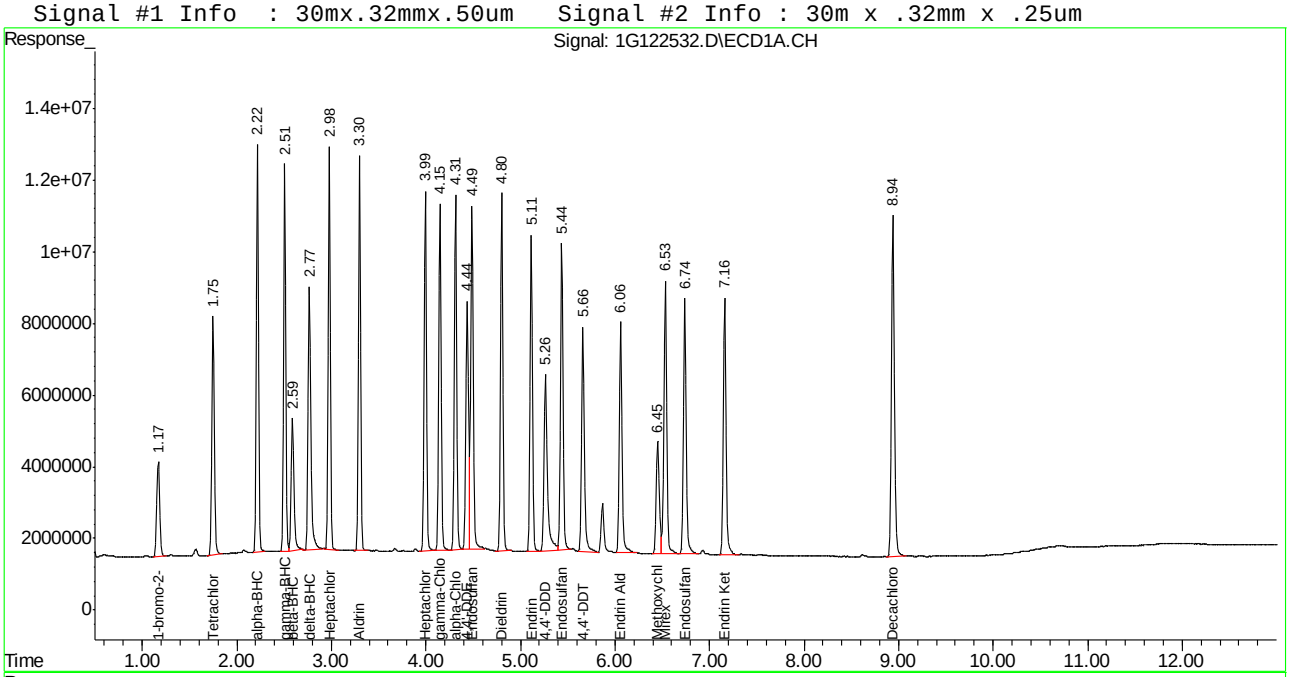
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122532.D 1PST3973.M Wed Apr 27 14:55:26 2016 RPT1 Page 1

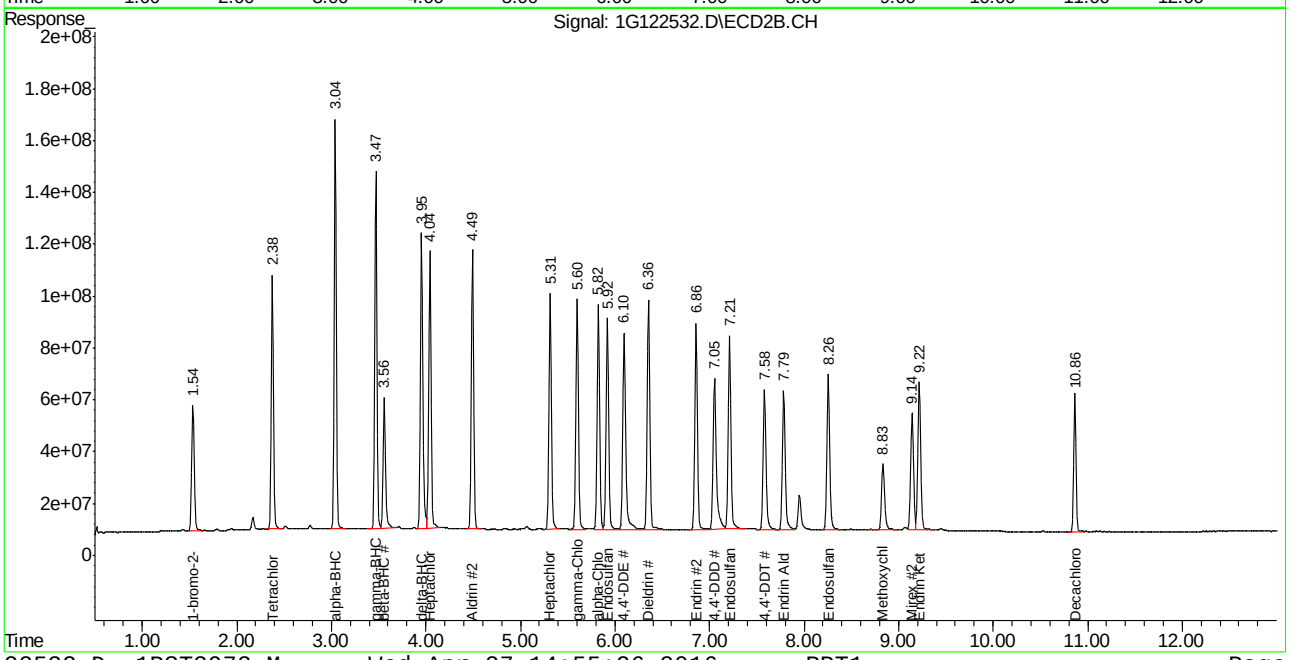
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122532.D\ECD2B.CH
Acq On : 4-27-16 01:45:26 PM Operator: dharas
Sample : ic3973-100 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On : 4-27-16 02:02:54 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:07 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:05:41 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	62870373	997.8E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	62870373	997.8E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	62870373	997.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	59898439	798.8E6	45.468	44.260
Spiked Amount	40.000	Range	30 - 150	Recovery	=	113.67%	110.65%
24) SA	Decachlorobiphen	8.94	10.87	103.2E6	468.5E6	44.376	44.502
Spiked Amount	40.000			Recovery	=	110.94%	111.26%
	Target Compounds						
32)	Chlordane {A}	2.98	4.04	44475816	539.5E6	991.174	869.711
33)	Chlordane {B}	3.44	4.69	34296300	313.5E6	520.942	498.451
34)	Chlordane {C}	4.15	5.60	106.8E6	1047.2E6	502.827	498.445
35)	Chlordane {D}	4.31	5.83	173.3E6	1762.4E6	502.056	498.663m
36)	Chlordane {E}	5.33	7.29	24356532	287.9E6	527.569	499.352

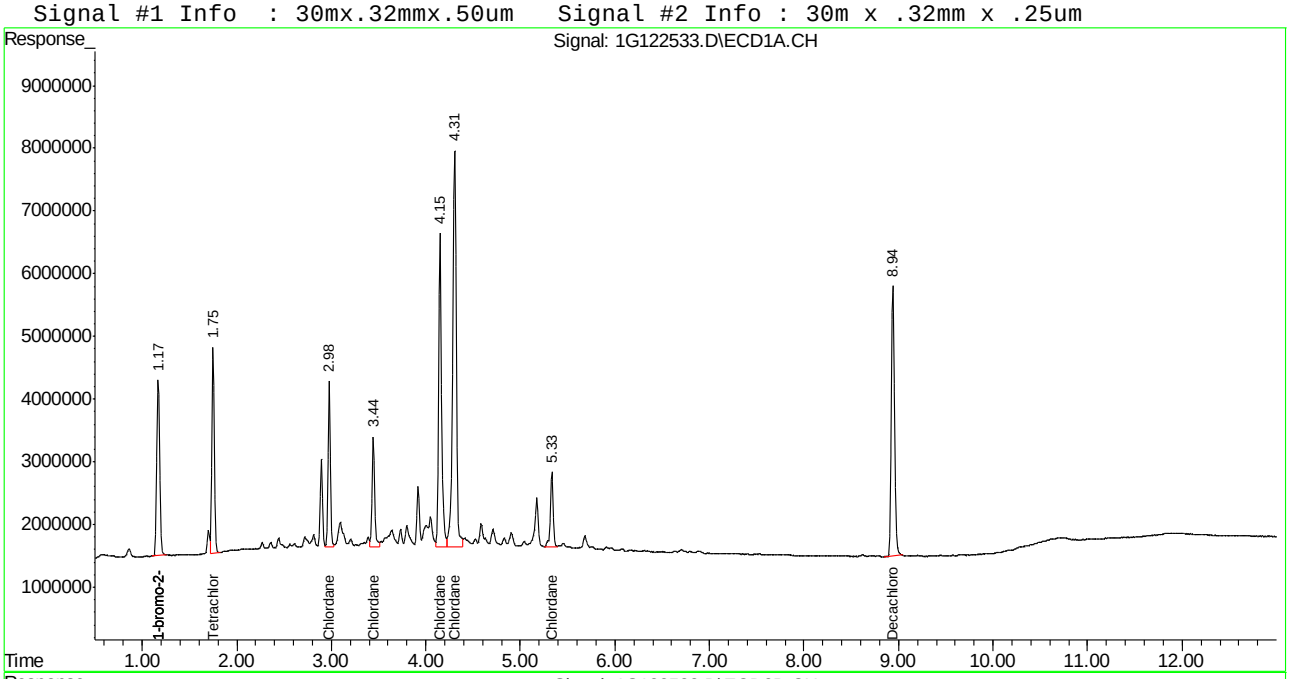
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122533.D 1PST3973.M Wed Apr 27 16:07:18 2016 RPT1 Page 1

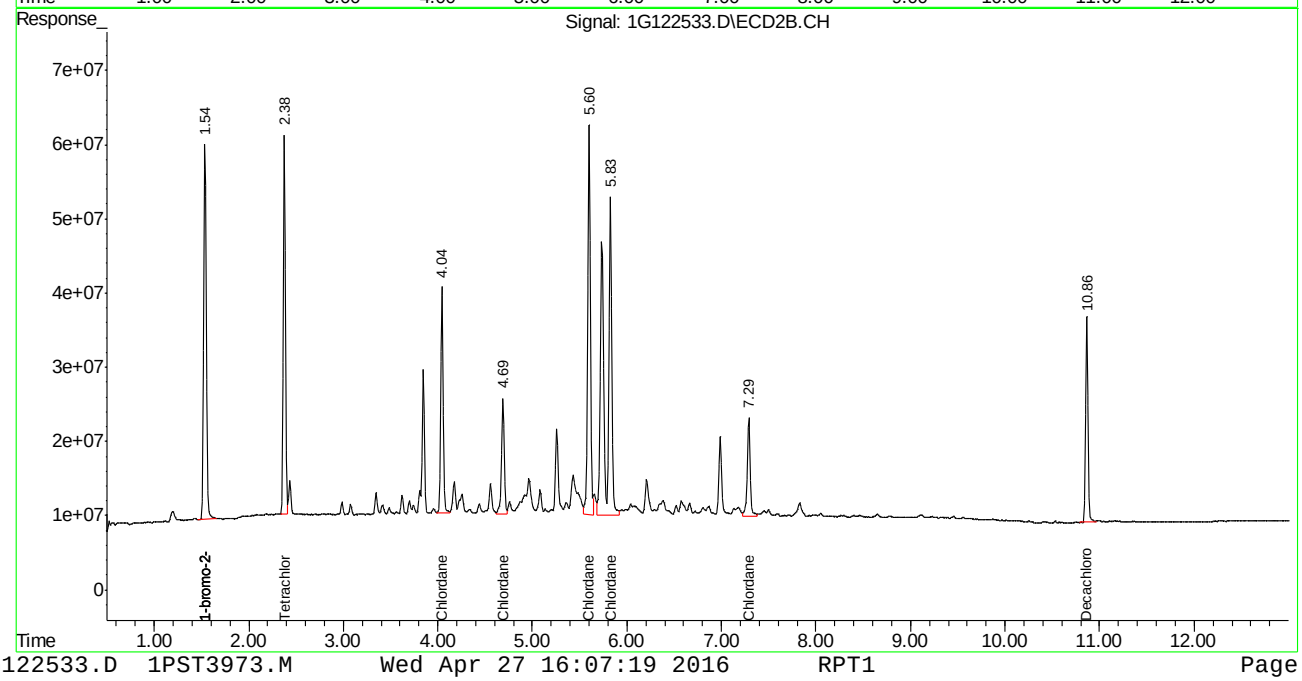
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On : 4-27-16 02:02:54 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:07 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:05:41 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

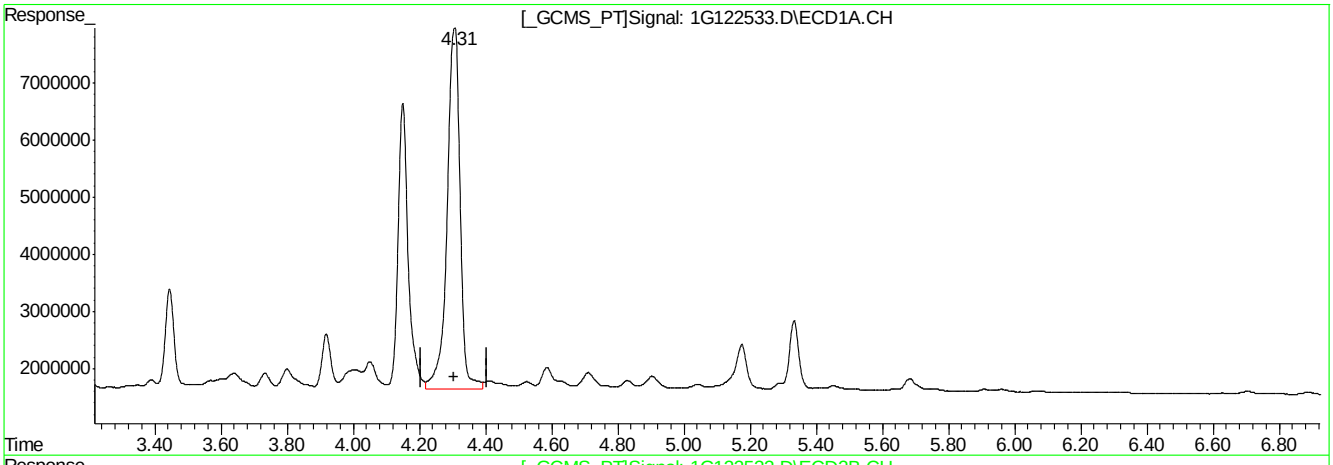
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122533.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 14:02	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

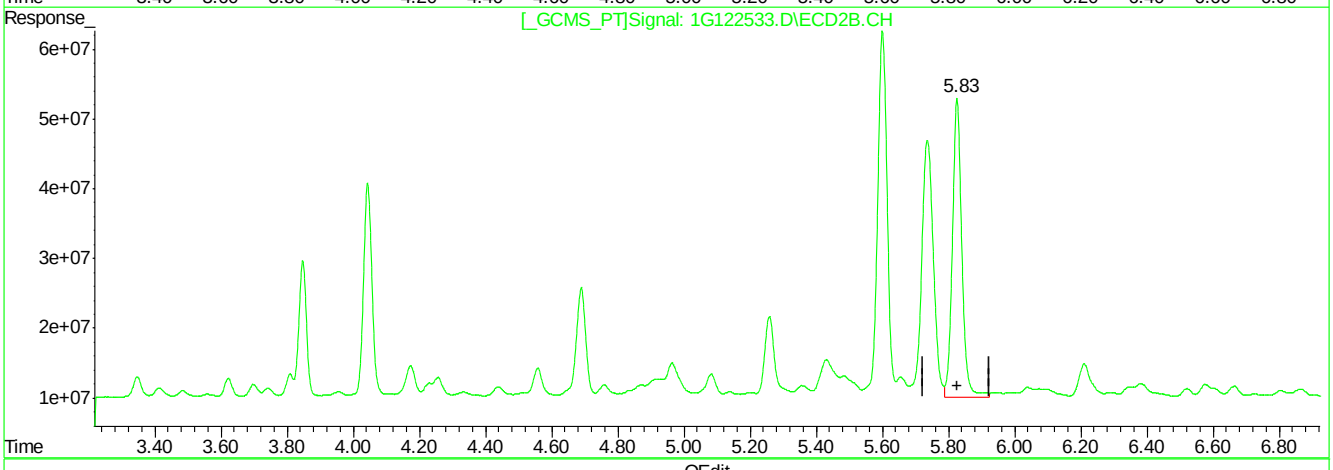
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.83	Split peak

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On    : 4-27-16 02:02:54 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:05 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:05:41 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 502.056PPB

response 173288732

(35) Chlordane {D} #2

5.83min 241.501PPB

response 853505487

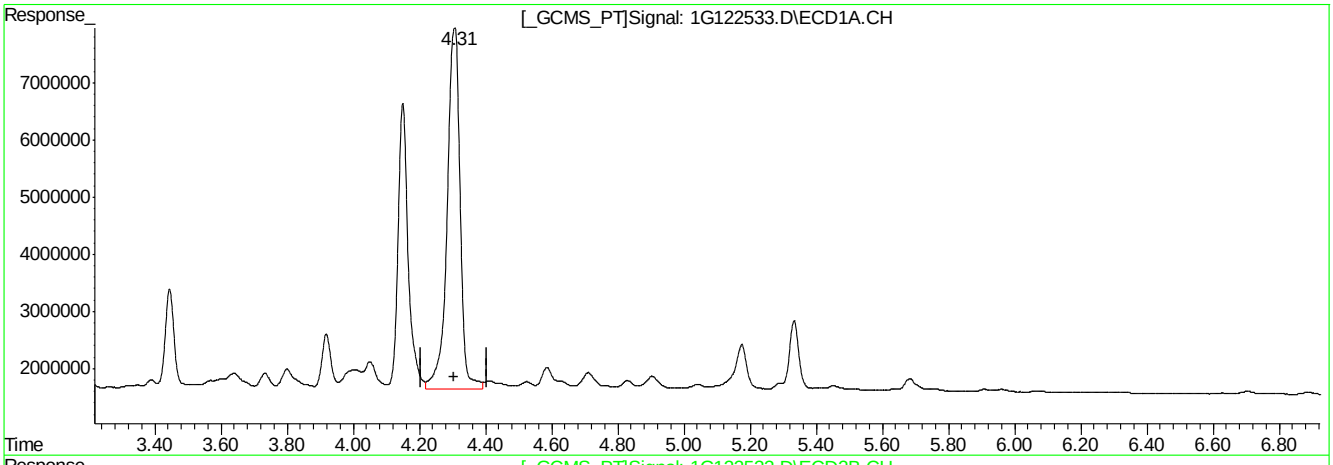
(+) = Expected Retention Time

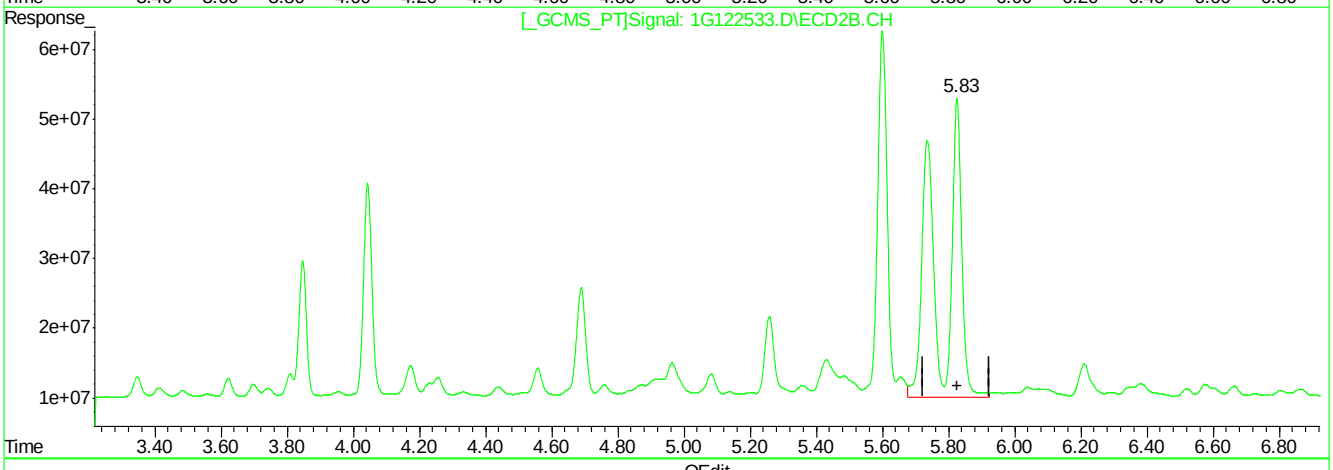
1G122533.D 1PST3973.M Wed Apr 27 16:06:31 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122533.D\ECD2B.CH
Acq On    : 4-27-16 02:02:54 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:05 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:05:41 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 502.056PPB

response 173288732

(35) Chlordane {D} #2

5.83min 498.663PPB m

response 1762356898

(+) = Expected Retention Time

1G122533.D 1PST3973.M Wed Apr 27 16:06:55 2016 RPT1

9.4.9.3

9

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On : 4-27-16 02:20:24 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:56 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2-nitrob	1.17	1.54	62037752	1026.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	4.81	6.32	13730720	204.9E6	626.720m	463.922
27) L8	Toxaphene{B}	5.42	7.18	32123504	254.1E6	551.380m	494.120
28) L8	Toxaphene{C}	5.60	7.35	24966468	382.3E6	563.230	389.645
29) L8	Toxaphene{D}	5.93	7.79	23828150	230.8E6	532.313	408.653
30) L8	Toxaphene{E}	6.57	8.69	22704377	168.8E6	574.506	381.424

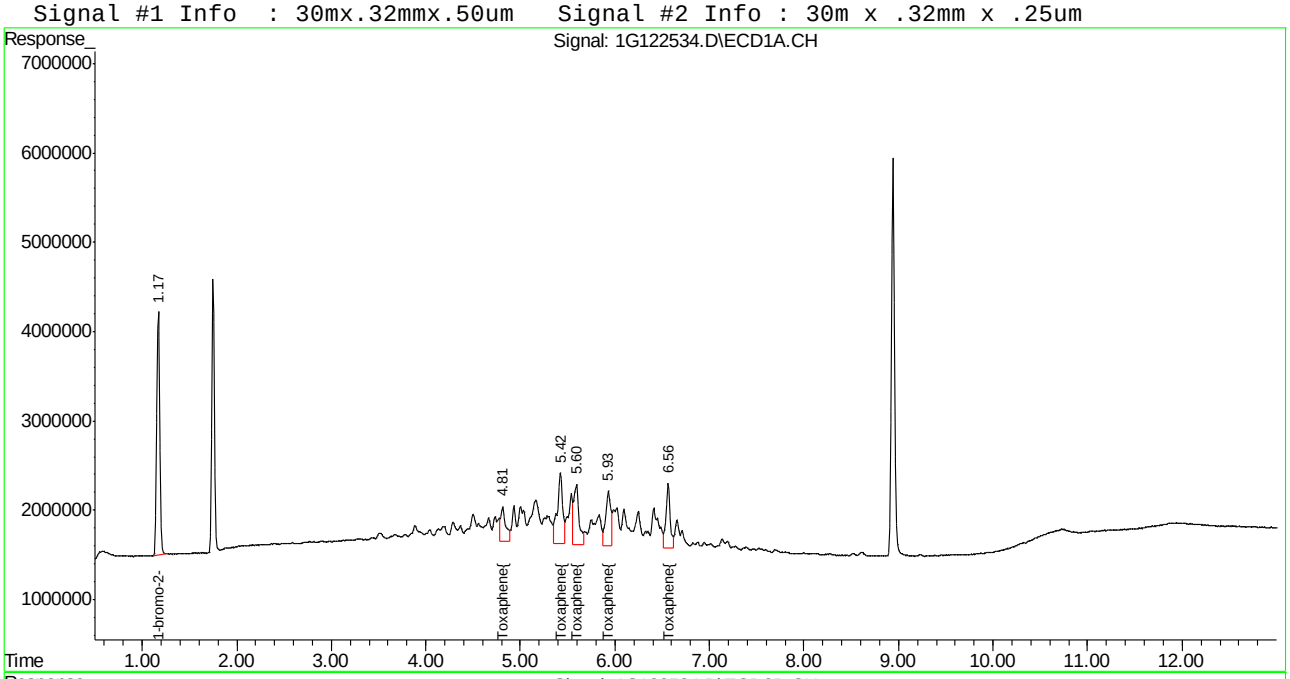
(f)=RT Delta > 1/2 Window (m)=manual int.

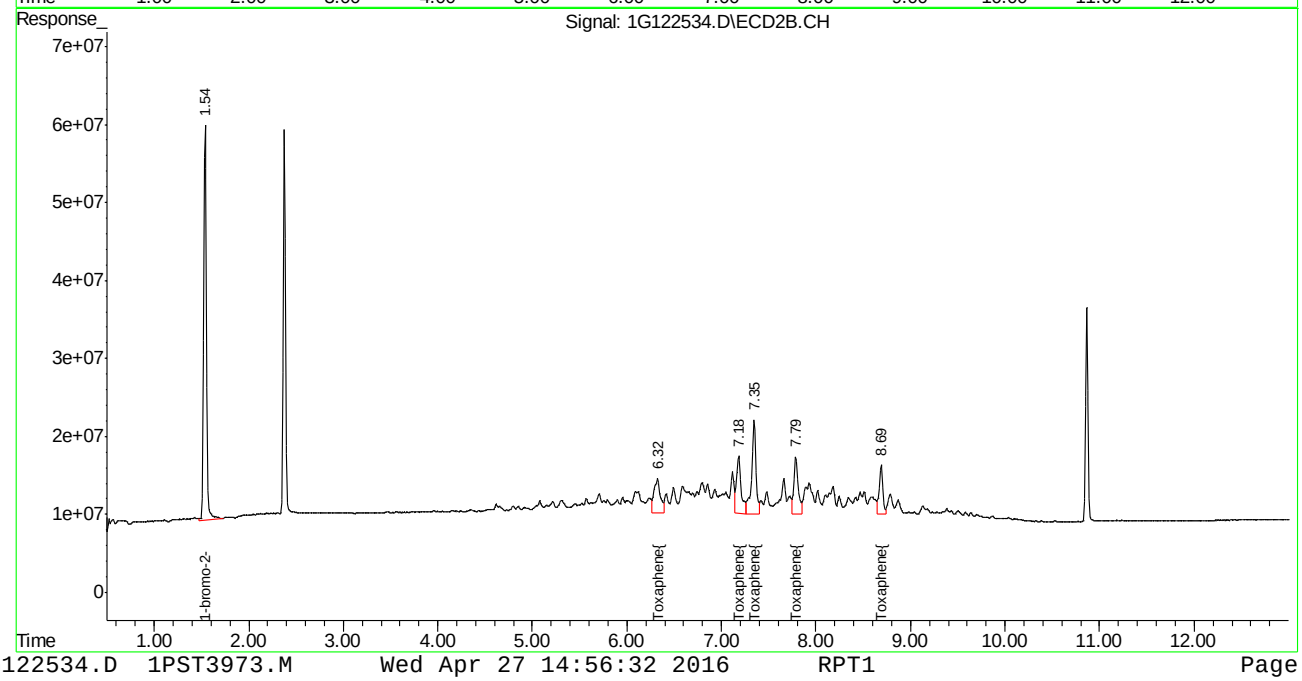
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On : 4-27-16 02:20:24 PM Operator: dharas
Sample : ic3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:56 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

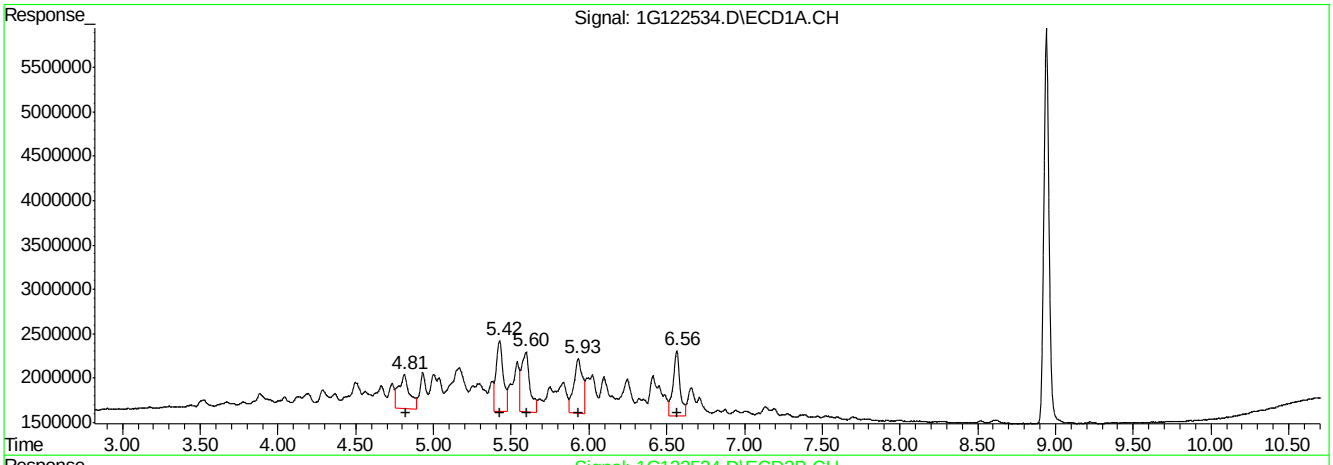
Sample Number:	G1G3973-IC3973	**Method:**	SW846 8081B
Lab FileID:	1G122534.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 14:20	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

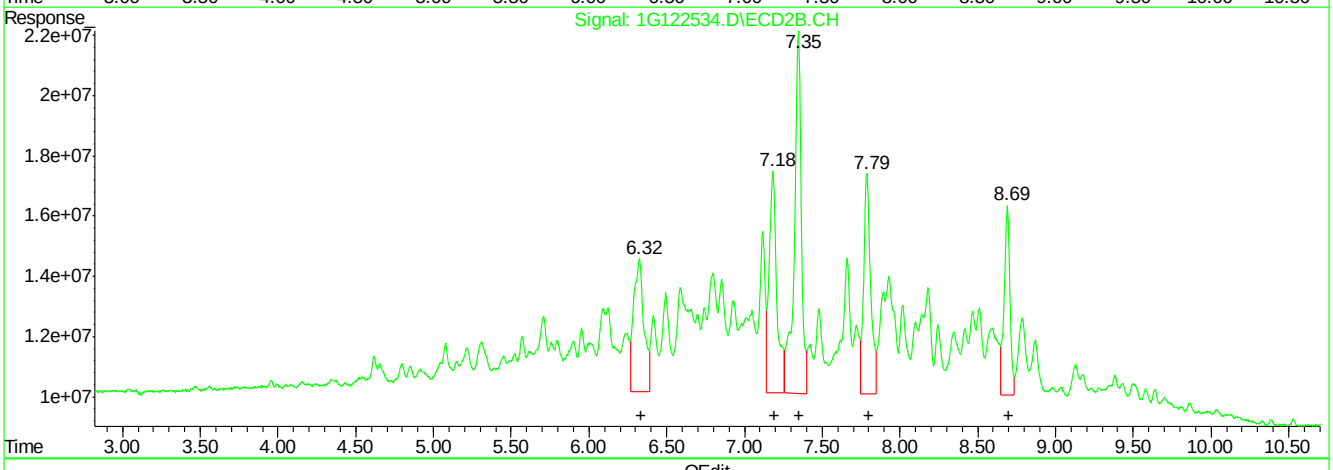
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-A		1	4.81	Poor instrument integration
Toxaphene-B		1	5.42	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
4.81	18707843	853.89
5.42	25308456	434.40
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.32	204932438	463.92
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

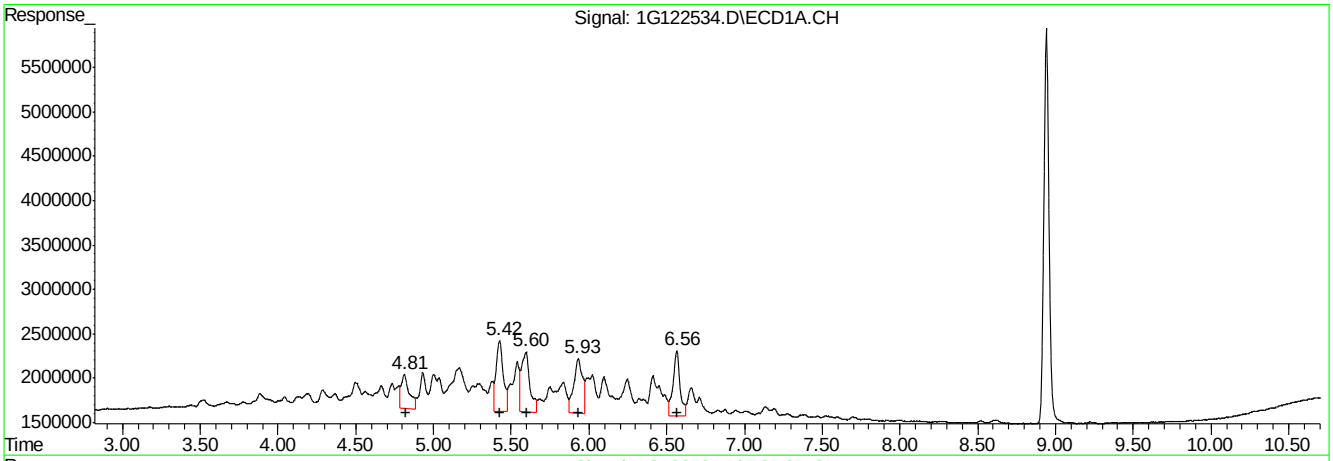
(+) = Expected Retention Time

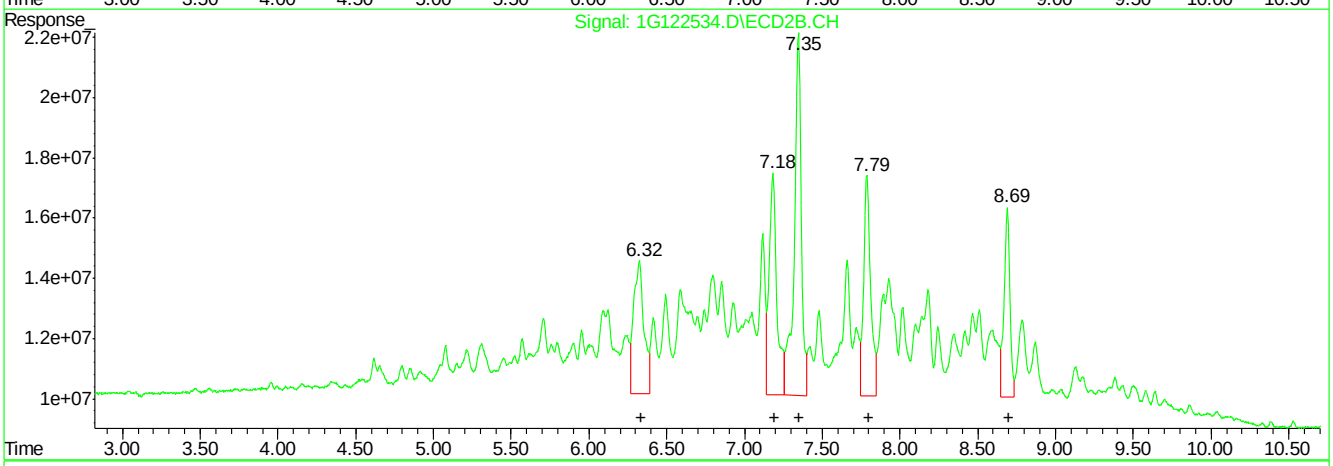
1G122534.D 1PST3973.M Wed Apr 27 14:47:03 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
4.81	13730720	626.72
5.42	25308456	434.40
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.32	204932438	463.92
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

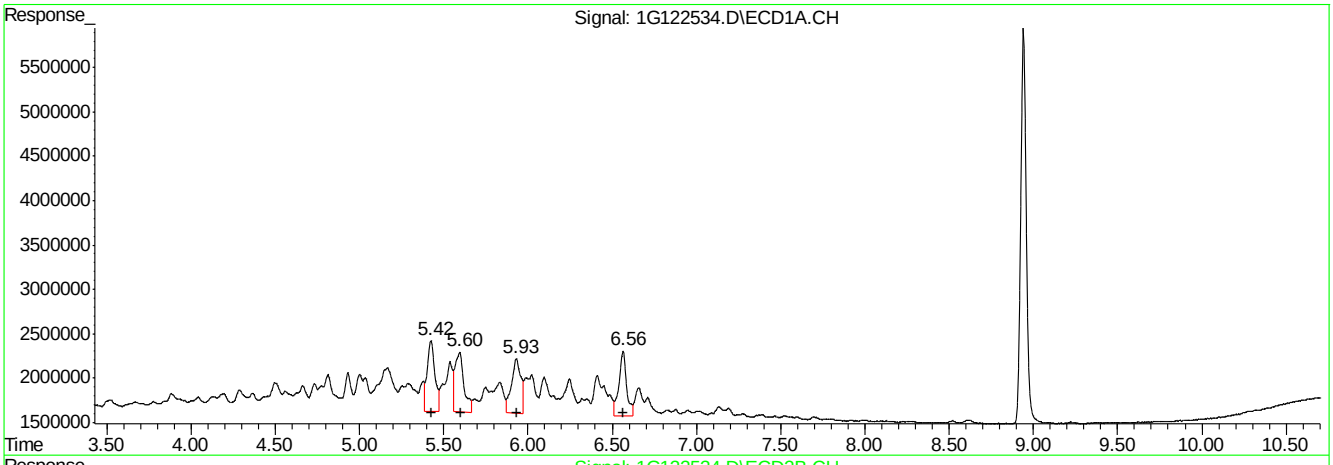
(+) = Expected Retention Time

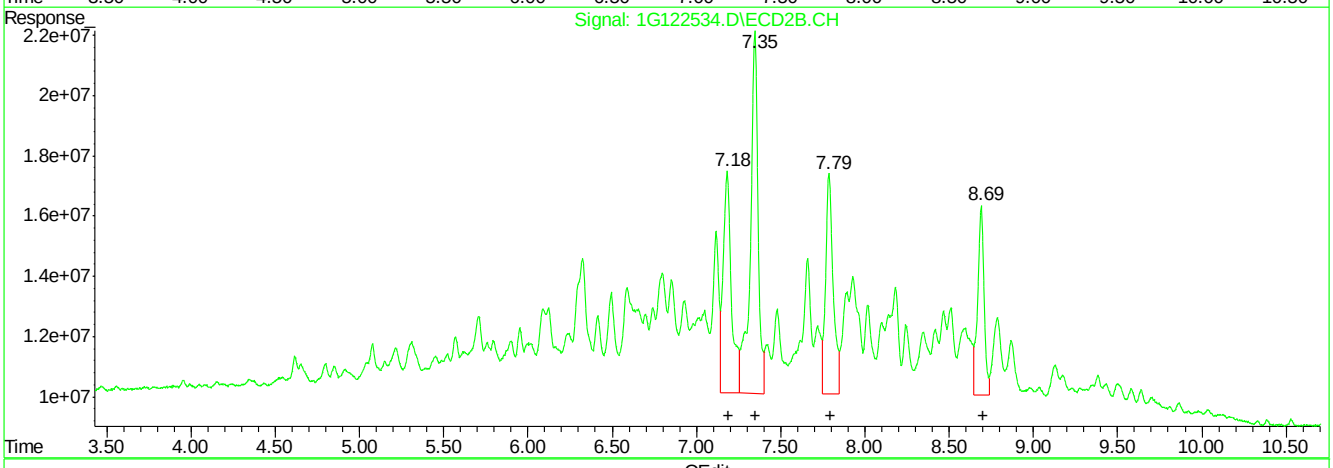
1G122534.D 1PST3973.M Wed Apr 27 14:48:22 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} (L8)

R.T.	Response	Conc
5.42	25308456	434.40
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

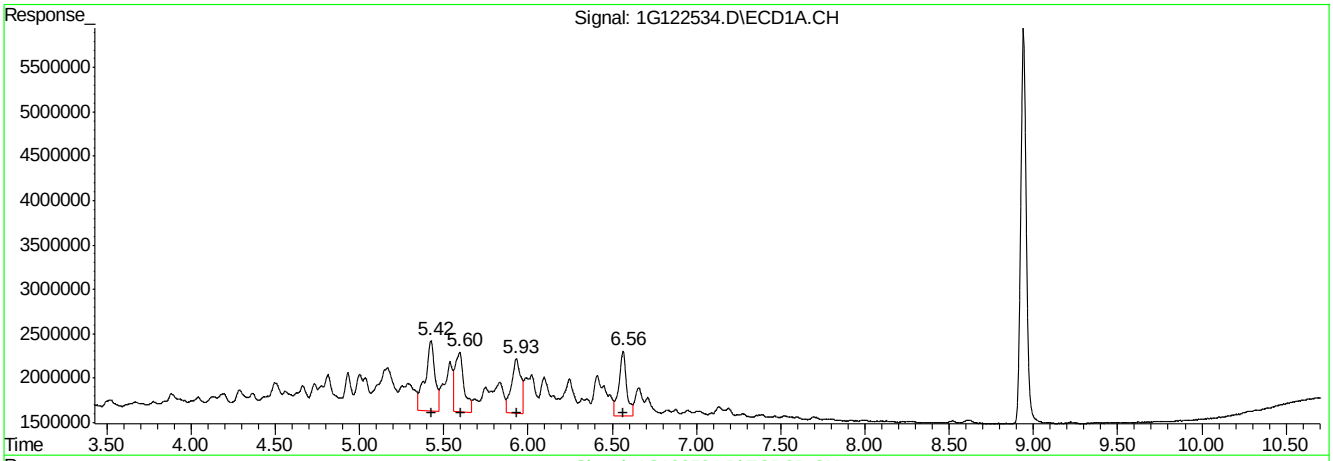
(+) = Expected Retention Time

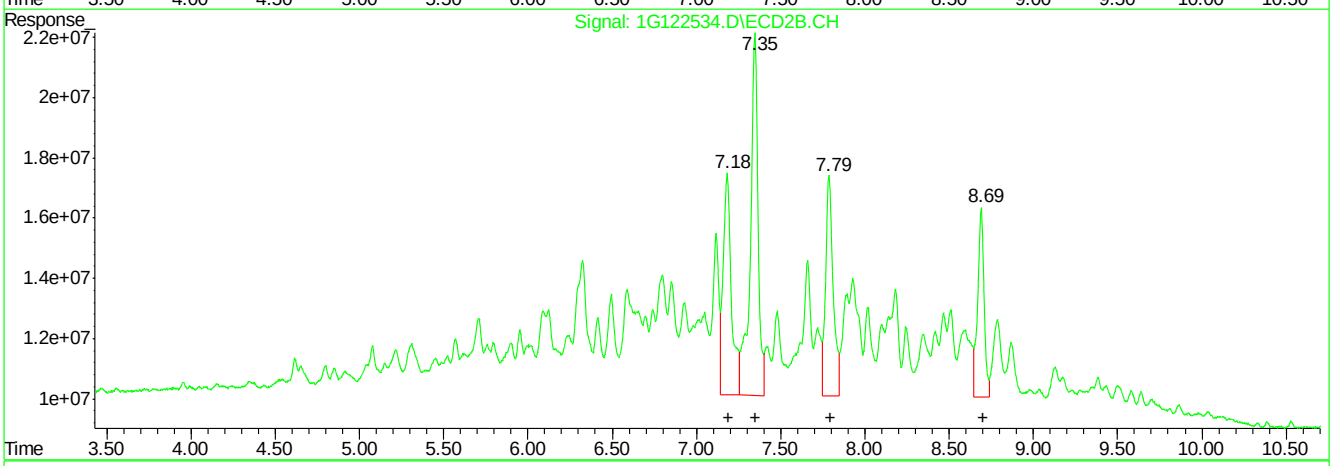
1G122534.D 1PST3973.M Wed Apr 27 14:48:38 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122534.D\ECD2B.CH
Acq On    : 4-27-16 02:20:24 PM                      Operator: dharas
Sample    : ic3973-500                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 14:46 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri Apr 01 16:49:57 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
5.42	32123504	551.38
5.60	24966468	563.23
5.93	23828150	532.31
6.57	22704377	574.51

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	254124998	494.12
7.35	382263914	389.64
7.79	230797432	408.65
8.69	168815105	381.42

(+) = Expected Retention Time

1G122534.D 1PST3973.M Wed Apr 27 14:49:25 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD2B.CH
Acq On : 4-27-16 02:37:54 PM Operator: dharas
Sample : icv3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:35 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	62654048	994.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	62654048	994.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	62654048	994.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	28023533	395.9E6	21.346	22.015
Spiked Amount	40.000 Range	30 - 150	Recovery	=		53.36%	55.04%
24) SA	Decachlorobiphen	8.94	10.87	52076323	243.5E6	22.465	23.210
Spiked Amount	40.000		Recovery	=		56.16%	58.03%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	33080967	572.1E6	20.528	20.998
4) MA	gamma-BHC	2.51	3.47	32360319	510.4E6	20.726	21.068
5) MA	Heptachlor	2.98	4.04	34629944	451.6E6	20.275	21.178
6) B	beta-BHC	2.59	3.56	16315476	222.6E6	21.229	21.715
7) B	delta-BHC	2.77	3.96	29608596	509.9E6	22.372	22.570
8) MB	Aldrin	3.30	4.49	33922250	466.5E6	20.443	20.615
9) B	Heptachlor Epoxi	3.99	5.32	35391537	424.6E6	21.268	21.259
10) B	gamma-Chlordane	4.15	5.60	35381480	425.8E6	20.985	21.624
11) B	alpha-Chlordane	4.31	5.83	35028055	401.2E6	20.671	20.881
12) A	Endosulfan I	4.49	5.92	38051439	396.0E6	21.024	20.808
13) B	4,4'-DDE	4.44	6.10	27408130	419.5E6	20.033	22.039
14) MA	Dieldrin	4.80	6.35	34831584	443.5E6	21.202	22.000
15) MA	Endrin	5.12	6.86	32988523	401.3E6	21.870	22.497
16) A	4,4'-DDD	5.27	7.06	25224435	361.3E6	21.876	21.729
17) B	Endosulfan II	5.44	7.21	33389629	388.8E6	21.978	21.987
18) MA	4,4'-DDT	5.66	7.58	22546539	248.8E6	20.902	23.280
19) B	Endrin Aldehyde	6.06	7.79	29427307	306.7E6	23.231	24.107
20) B	Endosulfan Sulfa	6.74	8.26	29835396	317.2E6	21.155	22.084
21) A	Methoxychlor	6.46	8.84	16333970	130.6E6	22.363	21.585
23) B	Endrin Ketone	7.16	9.22	29958726	291.3E6	21.408	21.896

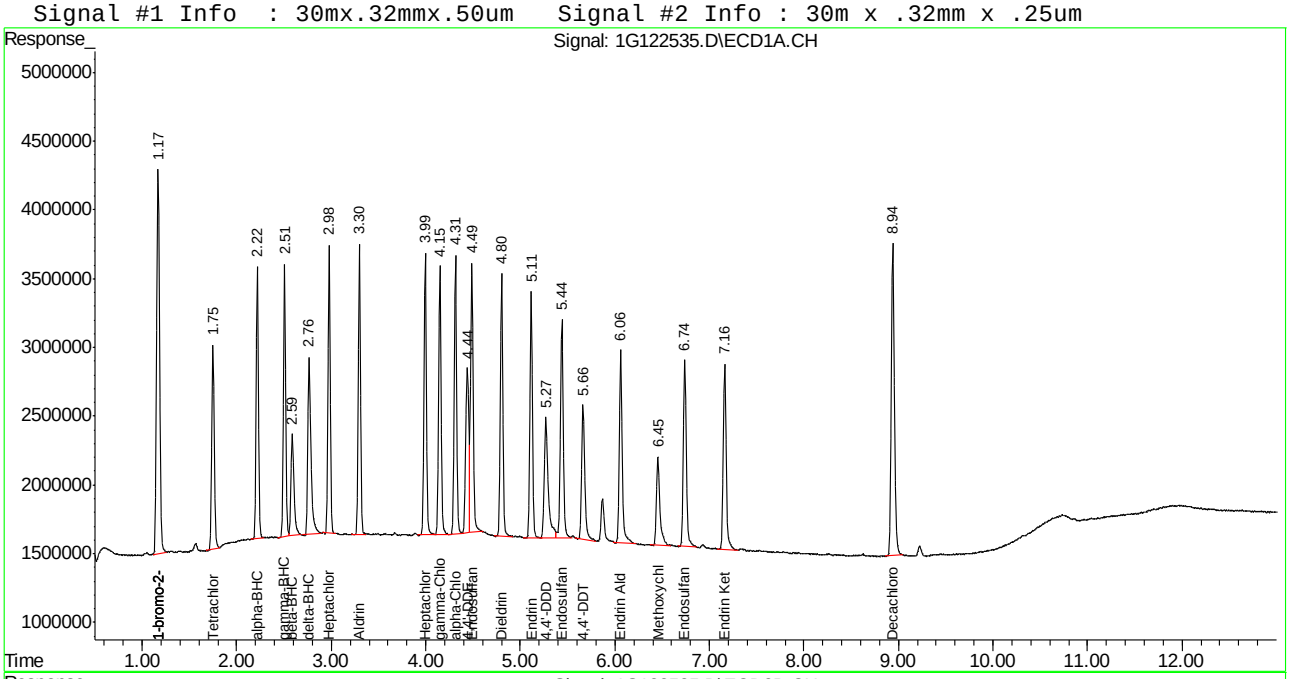
(f)=RT Delta > 1/2 Window (m)=manual int.

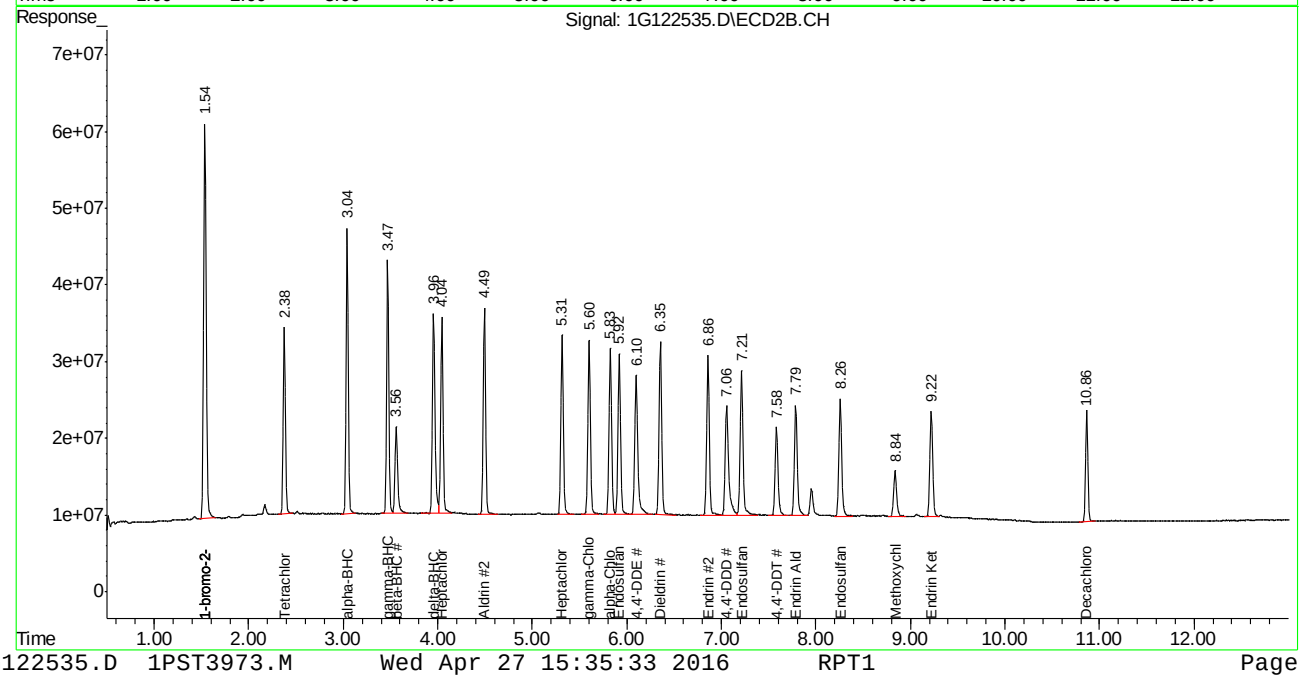
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122535.D\ECD2B.CH
Acq On : 4-27-16 02:37:54 PM Operator: dharas
Sample : icv3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:35 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD2B.CH
Acq On    : 4-27-16 02:55:30 PM                      Operator: dharas
Sample    : icv3973-25                               Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:36 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 15:00:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #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-nitrob	1.17	1.54	59989264	982.9E6	50.000	50.000
25)	I	1-bromo-2-nitrob	1.17	1.54	59989264	982.9E6	50.000	50.000
31)	I	1-bromo-2-nitrob	1.17	1.54	59989264	982.9E6	50.000	50.000
		System Monitoring Compounds						
		Target Compounds						
22)		Mirex	6.54	9.15	39227107	274.7E6	23.102	24.117

(f)=RT Delta > 1/2 Window (m)=manual int.

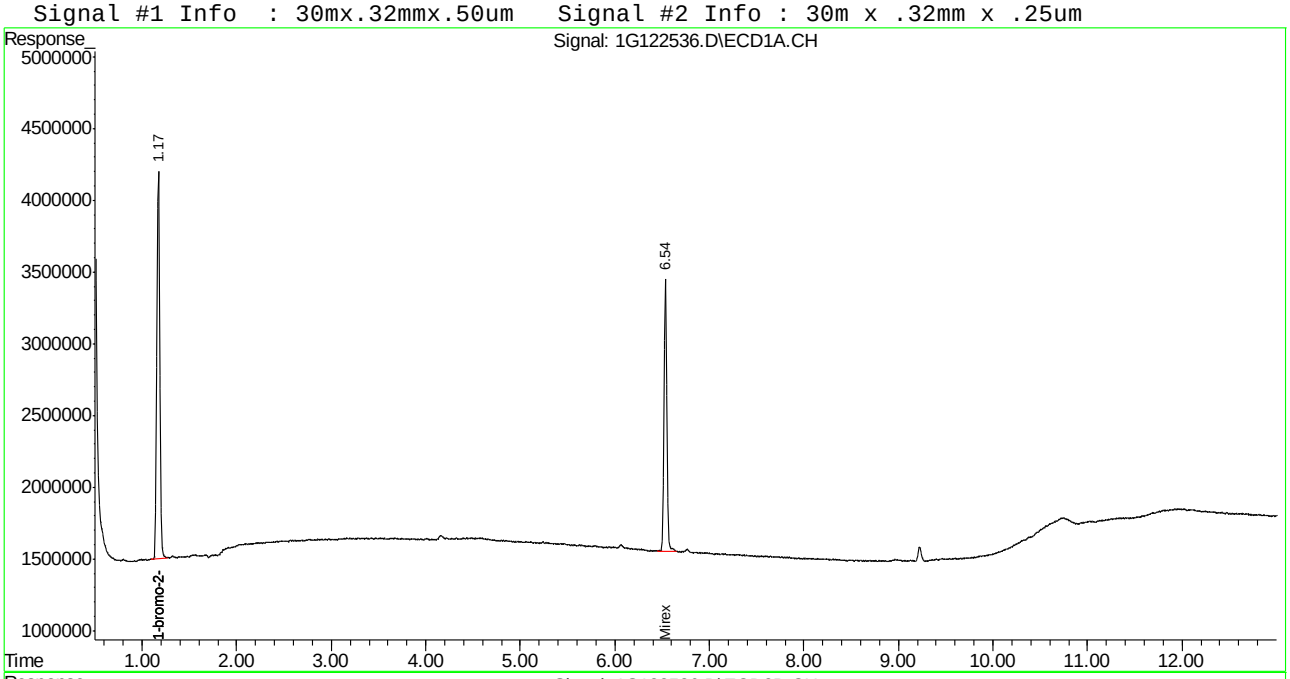
SGS ACCUTEST JC19214

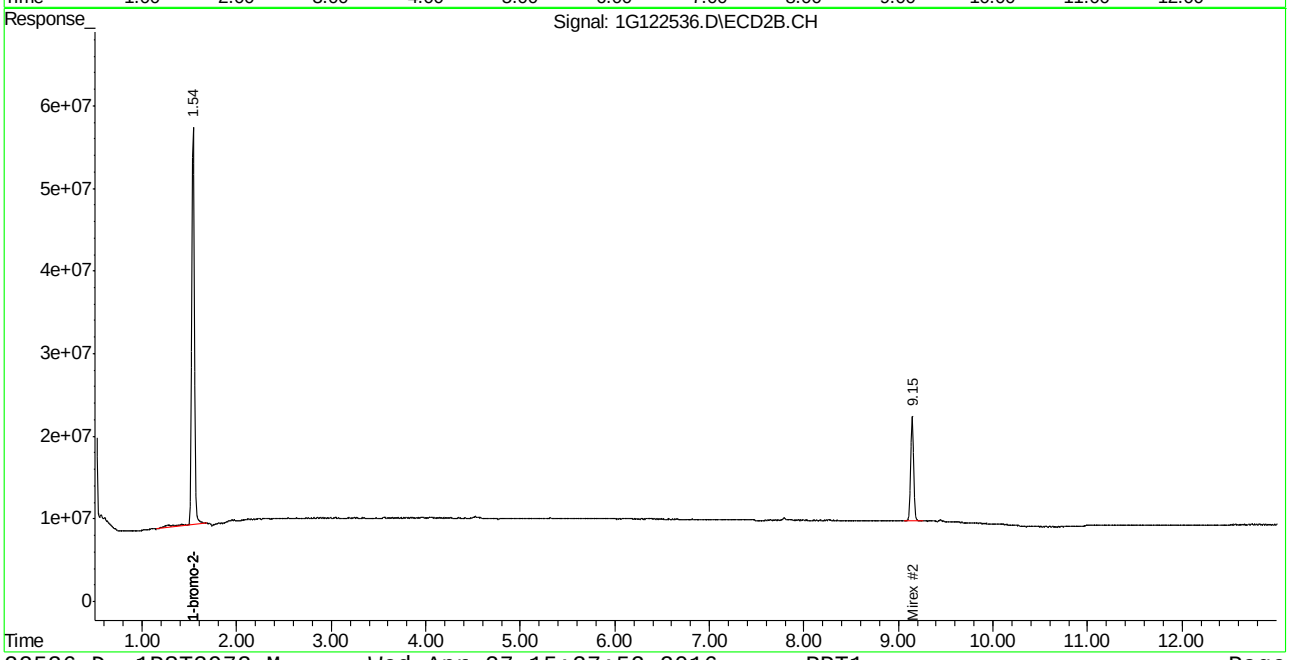
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122536.D\ECD2B.CH
Acq On : 4-27-16 02:55:30 PM Operator: dharas
Sample : icv3973-25 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:36 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.50um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On : 4-27-16 03:12:59 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:12 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:10:51 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	60625194	960.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	60625194	960.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	60625194	960.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	54389117	724.3E6	42.815	41.685
Spiked Amount	40.000	Range	30 - 150	Recovery	=	107.04%	104.21%
24) SA	Decachlorobiphen	8.94	10.87	101.2E6	466.4E6	45.128	46.018
Spiked Amount	40.000			Recovery	=	112.82%	115.05%
	Target Compounds						
32)	Chlordane {A}	2.98	4.04	35263537	483.5E6	411.116	465.452
33)	Chlordane {B}	3.45	4.69	29949992	329.4E6	452.806	545.670
34)	Chlordane {C}	4.15	5.60	101.2E6	1030.1E6	491.253	510.818
35)	Chlordane {D}	4.31	5.82	167.5E6	1733.6E6	501.070	510.835m
36)	Chlordane {E}	5.33	7.29	26210372	294.7E6	557.983	531.605

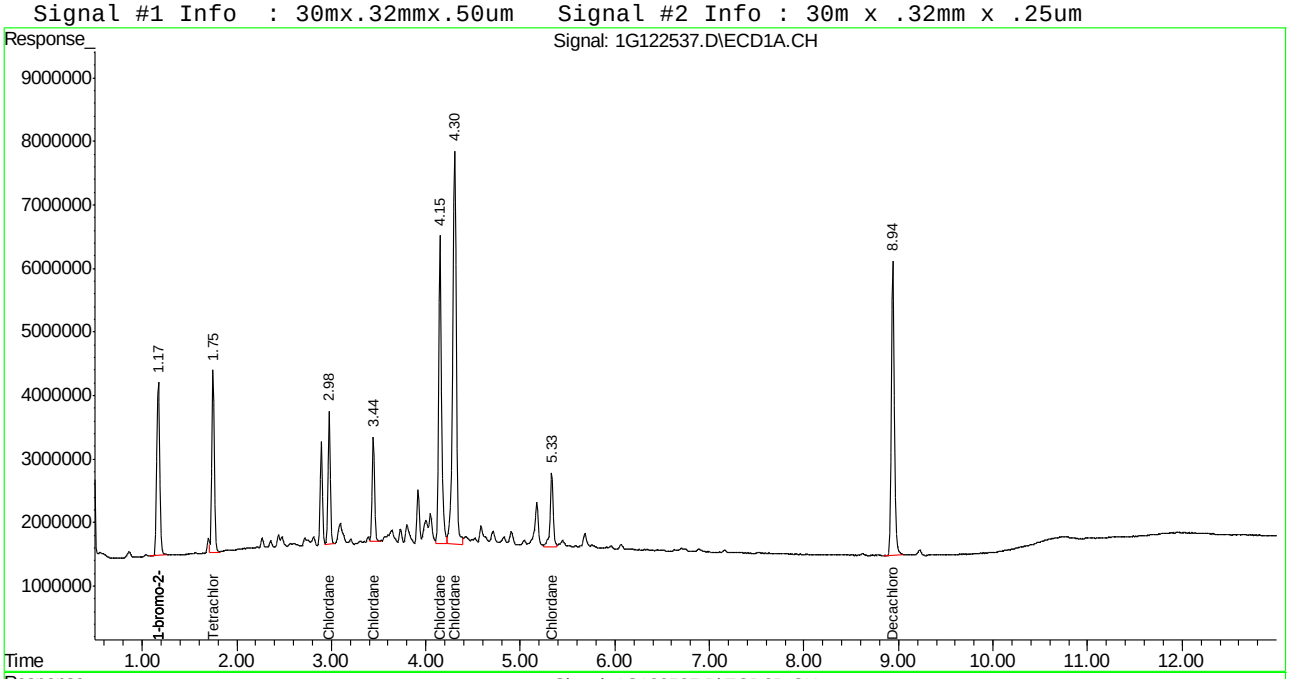
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122537.D 1PST3973.M Wed Apr 27 16:12:29 2016 RPT1 Page 1

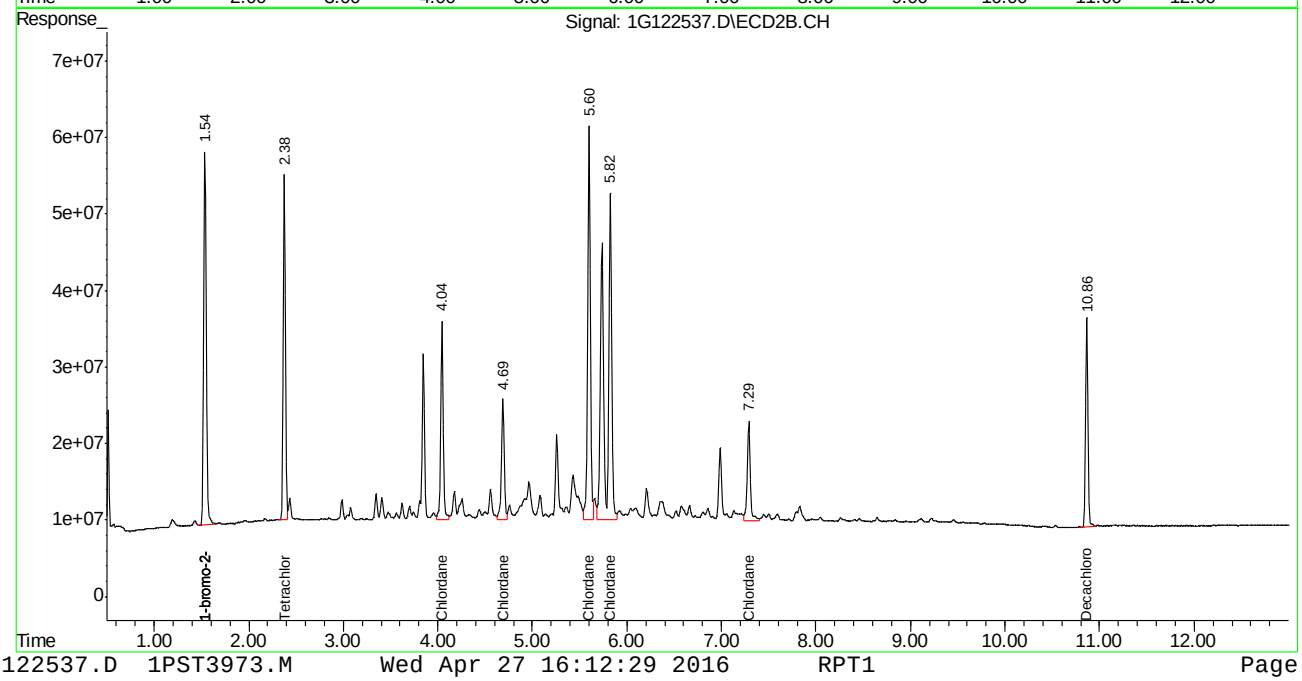
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On : 4-27-16 03:12:59 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:12 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:10:51 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

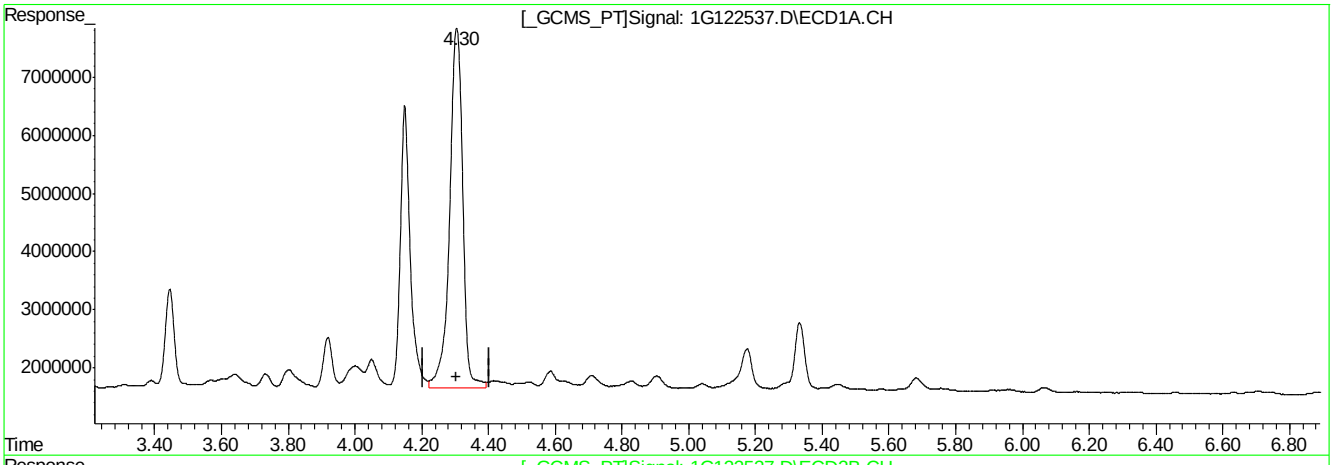
Sample Number:	G1G3973-ICV3973	**Method:**	SW846 8081B
Lab FileID:	1G122537.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 15:12	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

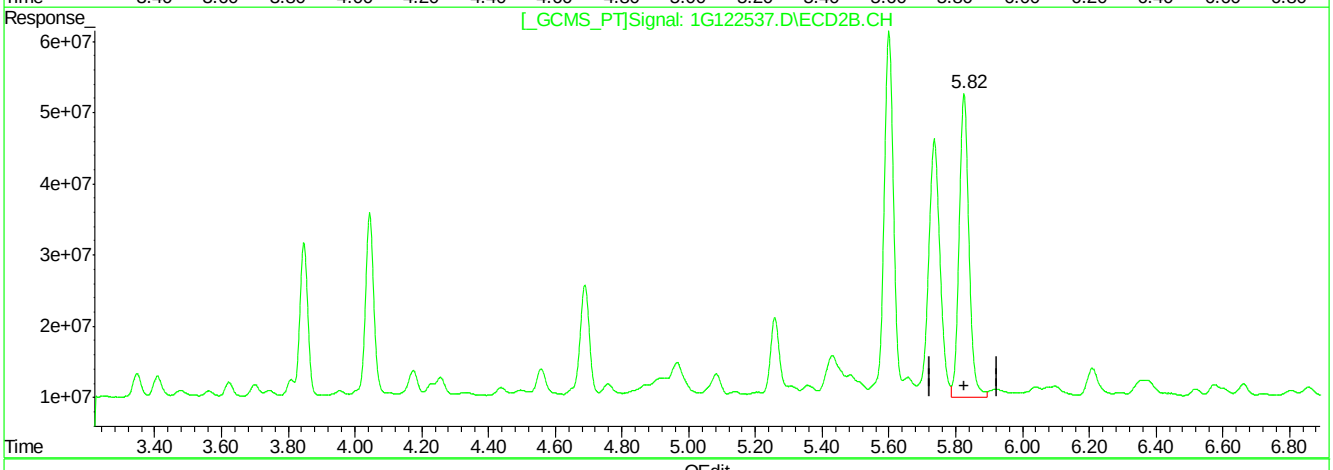
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.82	Split peak

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On    : 4-27-16 03:12:59 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:11 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:10:51 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 501.070PPB

response 167457938

(35) Chlordane {D} #2

5.83min 255.850PPB

response 868271848

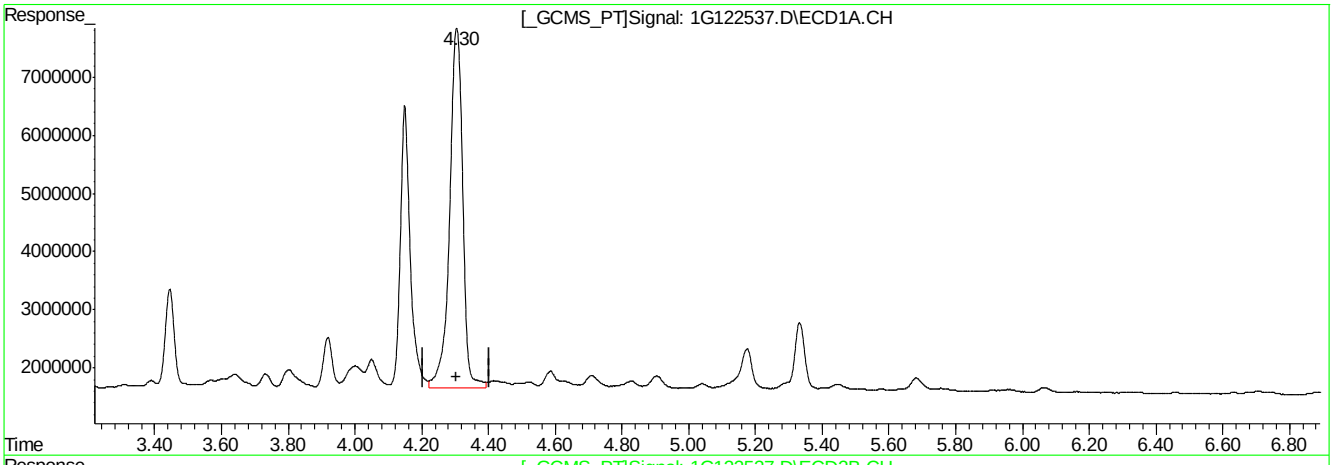
(+) = Expected Retention Time

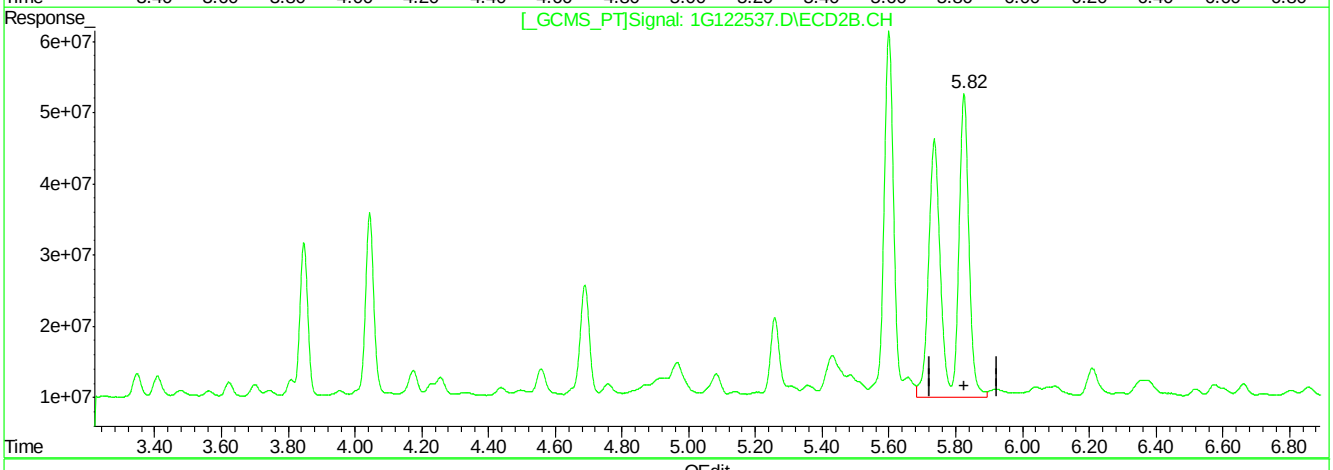
1G122537.D 1PST3973.M Wed Apr 27 16:11:56 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122537.D\ECD2B.CH
Acq On    : 4-27-16 03:12:59 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 16:11 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:10:51 2016
Response via : Multiple Level Calibration
```





QEdit

(35) Chlordane {D}

4.31min 501.070PPB

response 167457938

(35) Chlordane {D} #2

5.82min 510.835PPB m

response 1733607291

(+) = Expected Retention Time

1G122537.D 1PST3973.M Wed Apr 27 16:12:22 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/28/16 16:54

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On : 4-27-16 03:30:28 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	61638851	977.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	61638851	977.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	61638851	977.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	52461200	721.9E6	40.618	40.846
Spiked Amount	40.000	Range	30 - 150	Recovery	=	101.55%	102.11%
24) SA	Decachlorobiphen	8.94	10.87	97365793	446.3E6	42.694	43.294
Spiked Amount	40.000			Recovery	=	106.74%	108.23%
	Target Compounds						
26) L8	Toxaphene{A}	4.81	6.32	12777565	223.7E6	468.302	573.474
27) L8	Toxaphene{B}	5.42	7.18	31951412	272.0E6	500.540m	562.202
28) L8	Toxaphene{C}	5.60	7.35	24227930	360.2E6	488.349	495.078
29) L8	Toxaphene{D}	5.93	7.79	23620314	254.3E6	498.846	578.768
30) L8	Toxaphene{E}	6.56	8.69	22586431	182.3E6	500.622	567.210

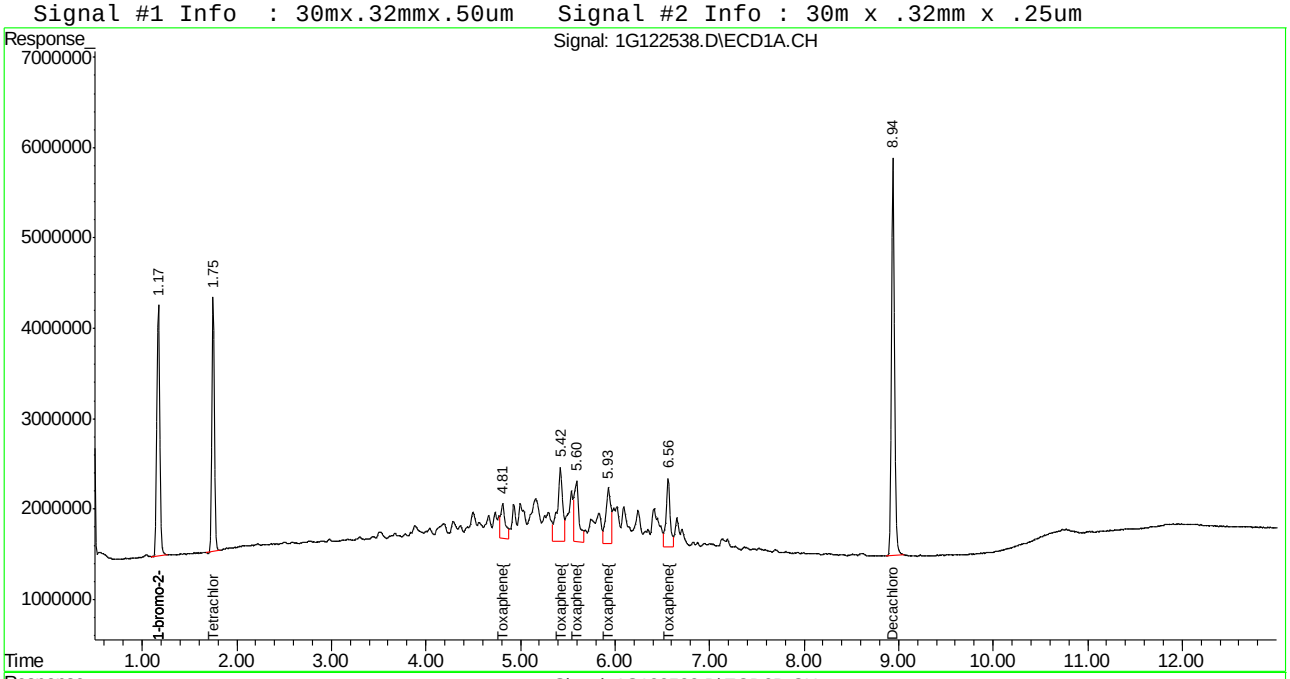
(f)=RT Delta > 1/2 Window (m)=manual int.
1G122538.D 1PST3973.M Wed Apr 27 15:55:44 2016 RPT1 Page 1

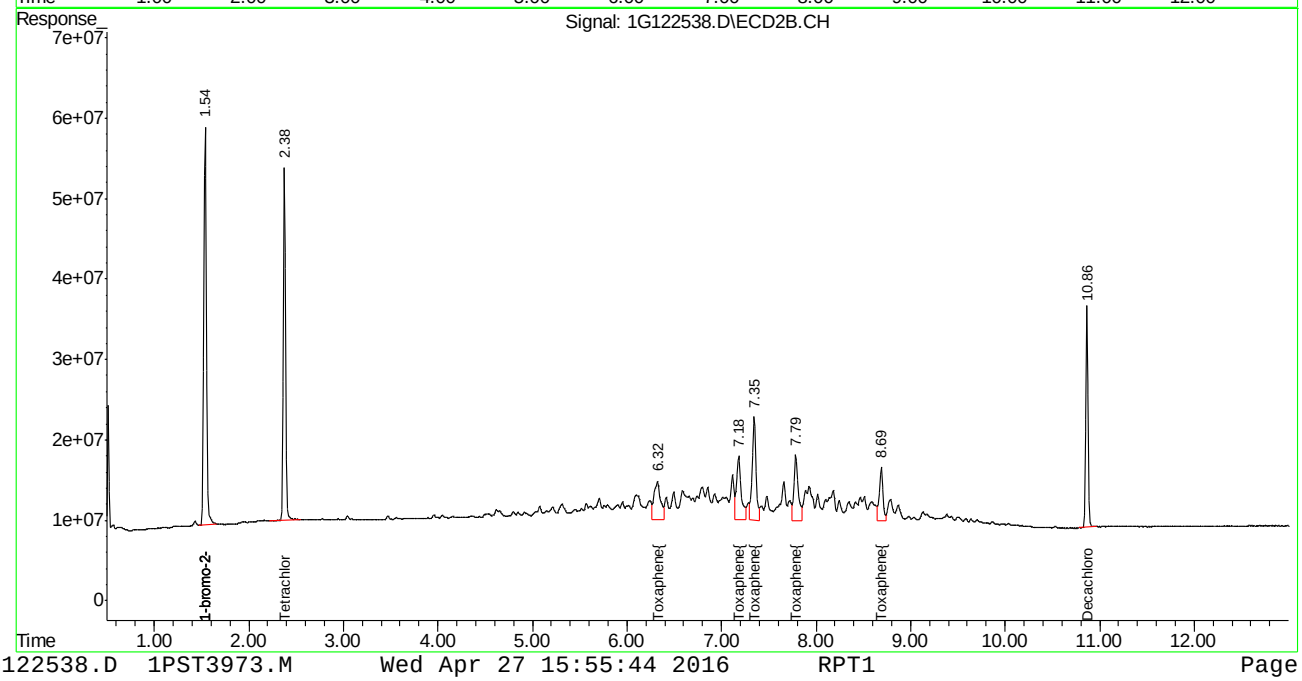
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On : 4-27-16 03:30:28 PM Operator: dharas
Sample : icv3973-500 Inst : GC1G
Misc : op93327,g1g3973,16.0,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:55 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

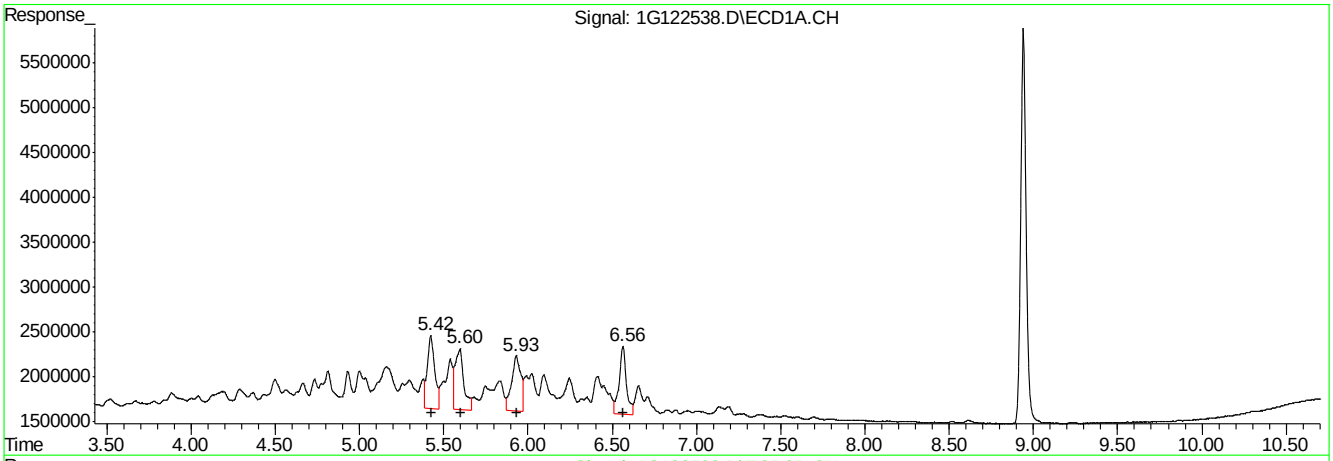
Sample Number:	G1G3973-ICV3973	**Method:**	SW846 8081B
Lab FileID:	1G122538.D	**Analyst approved:**	04/27/16 16:32 Dhara Saparia
Injection Time:	04/27/16 15:30	**Supervisor approved:**	04/28/16 16:54 Gwendolyn Burns

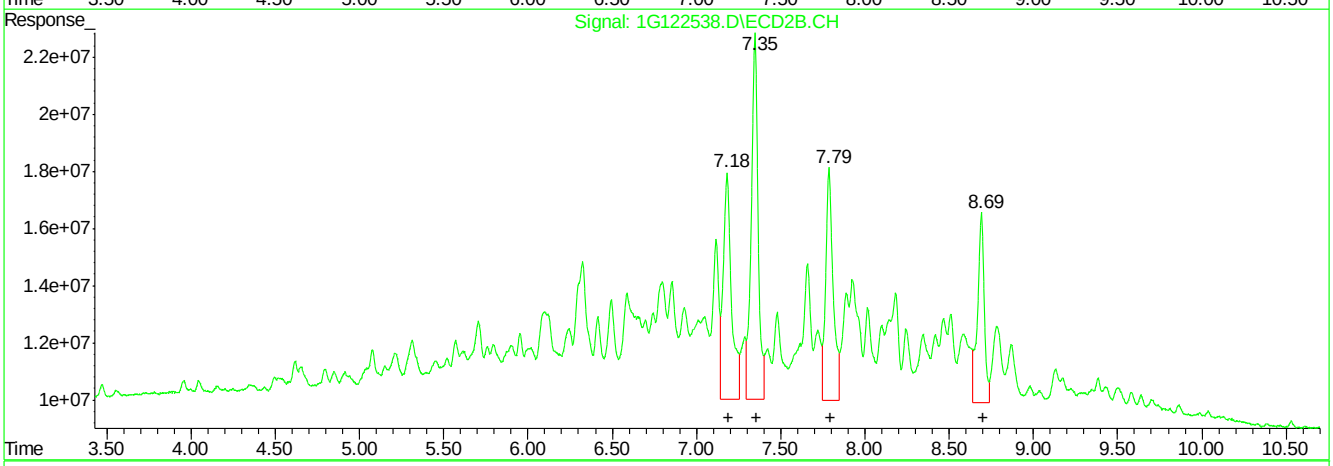
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-B		1	5.42	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On    : 4-27-16 03:30:28 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:53 2016  Quant Results File: 1PST3973.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} (L8)

R.T.	Response	Conc
5.42	24768256	388.01
5.60	24227930	488.35
5.93	23620314	498.85
6.56	22586431	500.62

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	271960748	562.20
7.35	360249392	495.08
7.79	254273927	578.77
8.69	182272513	567.21

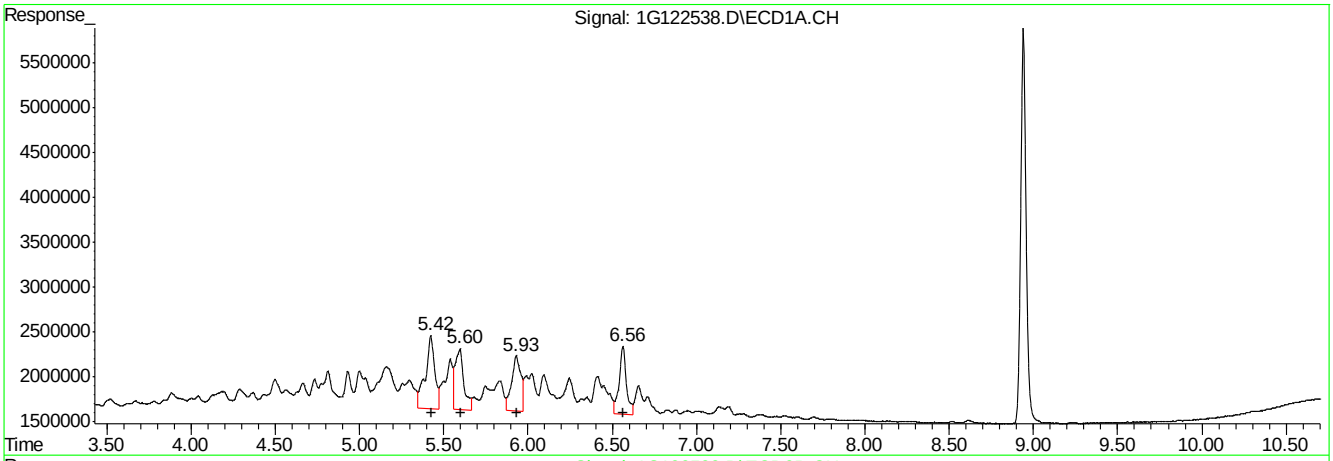
(+) = Expected Retention Time

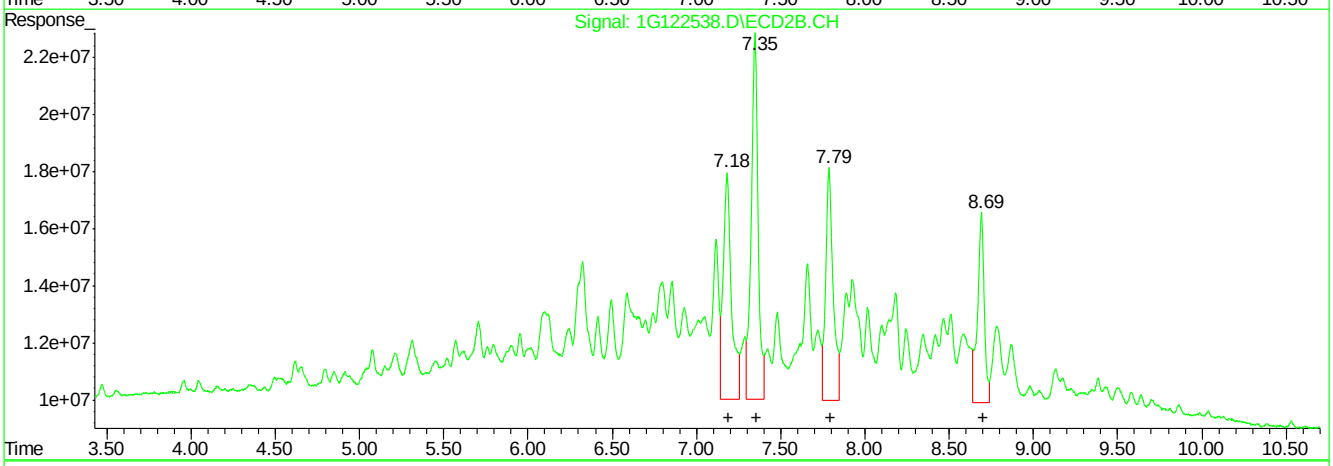
1G122538.D 1PST3973.M Wed Apr 27 15:54:26 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3973\1G122538.D\ECD2B.CH
Acq On    : 4-27-16 03:30:28 PM                      Operator: dharas
Sample    : icv3973-500                              Inst    : GC1G
Misc      : op93327,g1g3973,16.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 27 15:53 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 15:00:31 2016
Response via : Multiple Level Calibration
```





QEdit

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
5.42	31951412	500.54
5.60	24227930	488.35
5.93	23620314	498.85
6.56	22586431	500.62

(27) Toxaphene{B} #2 (L8)

R.T.	Response	Conc
7.18	271960748	562.20
7.35	360249392	495.08
7.79	254273927	578.77
8.69	182272513	567.21

(+) = Expected Retention Time

1G122538.D 1PST3973.M Wed Apr 27 15:55:34 2016 RPT1

SGS ACCUTEST JC19214

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 04/29/16 12:19

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On : 4-29-16 08:23:07 AM Operator: brittanp
Sample : cc3973-25 Inst : GC1G
Misc : op90282,g1g39765,15.0,,,10,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On : 4-29-16 08:23:06 AM Operator: brittanp
Sample : cc3973-25 Inst : GC1G
Misc : op90282,g1g39765,15.0,,,10,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Apr 29 8:51 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.16	1.53	59396144	909.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.16	1.53	59396144	909.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.16	1.53	59396144	909.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.37	29541980	380.0E6	23.737	23.111
Spiked Amount	40.000	Range	30 - 150	Recovery	=	59.34%	57.78%
24) SA	Decachlorobiphen	8.94	10.86	52534171	215.6E6	23.906	22.481
Spiked Amount	40.000			Recovery	=	59.77%	56.20%
	Target Compounds						
3) A	alpha-BHC	2.21	3.04	37347712	581.9E6	24.447	23.357
4) MA	gamma-BHC	2.50	3.47	35088136	498.4E6	23.706	22.497
5) MA	Heptachlor	2.98	4.04	39763240	441.0E6	24.557	22.614
6) B	beta-BHC	2.58	3.56	17263170	205.0E6	23.694	21.864
7) B	delta-BHC	2.76	3.95	31416840	478.5E6	25.040	23.164
8) MB	Aldrin	3.30	4.49	36932763	433.2E6	23.478	20.935
9) B	Heptachlor Epoxi	3.99	5.31	36678776	392.8E6	23.250m	21.504
10) B	gamma-Chlordane	4.15	5.60	36619780	387.3E6	22.911m	21.507
11) B	alpha-Chlordane	4.31	5.82	38437755	370.7E6	23.928m	21.097
12) A	Endosulfan I	4.48	5.92	38068590	370.5E6	22.187	21.287
13) B	4,4'-DDE	4.43	6.09	34306255	377.0E6	26.450	21.662
14) MA	Dieldrin	4.80	6.35	36975290	403.9E6	23.741	21.912
15) MA	Endrin	5.11	6.86	34983820	367.8E6	24.465	22.547
16) A	4,4'-DDD	5.25	7.05	27222441	331.5E6	24.904	21.803
17) B	Endosulfan II	5.43	7.21	35456149	353.6E6	24.619	21.868
18) MA	4,4'-DDT	5.65	7.58	27906072	264.8E6	27.289	27.085
19) B	Endrin Aldehyde	6.05	7.78	30124096	271.2E6	25.085	23.311
20) B	Endosulfan Sulfa	6.73	8.25	35672803	316.6E6	26.681	24.106
21) A	Methoxychlor	6.44	8.83	19088208	138.9E6	27.568	25.108
22)	Mirex	6.53	9.14	38161701	233.0E6	22.699	22.117
23) B	Endrin Ketone	7.16	9.21	38976492	334.1E6	29.379	27.460

(f)=RT Delta > 1/2 Window (m)=manual int.

SGS ACCUTEST JC19214

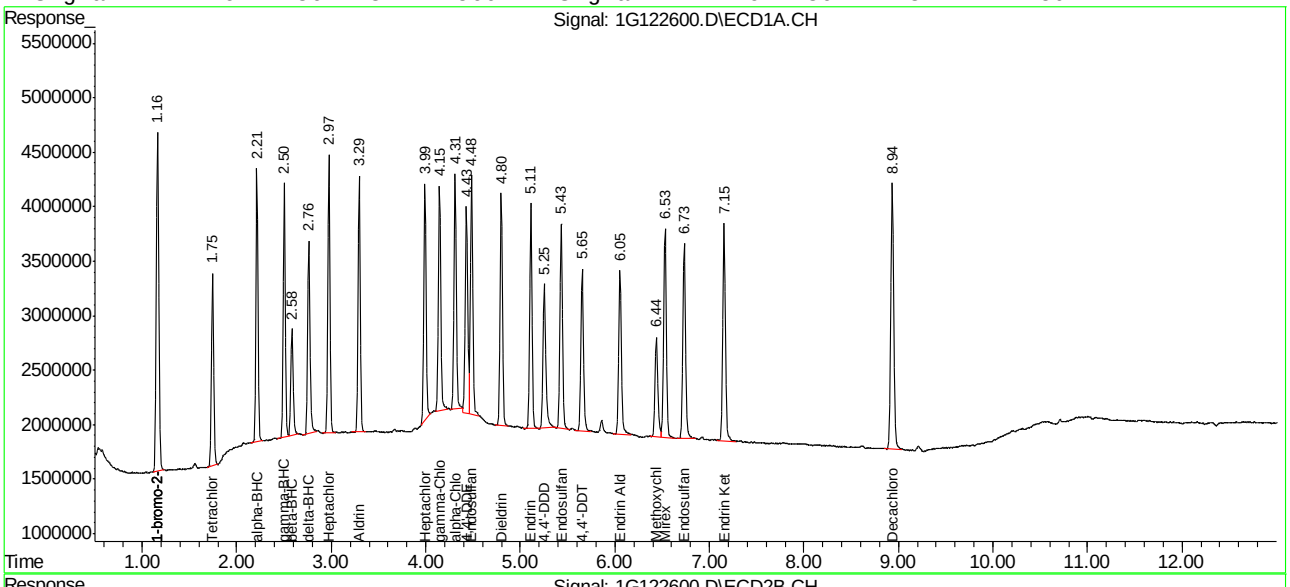
Quantitation Report (QT Reviewed)

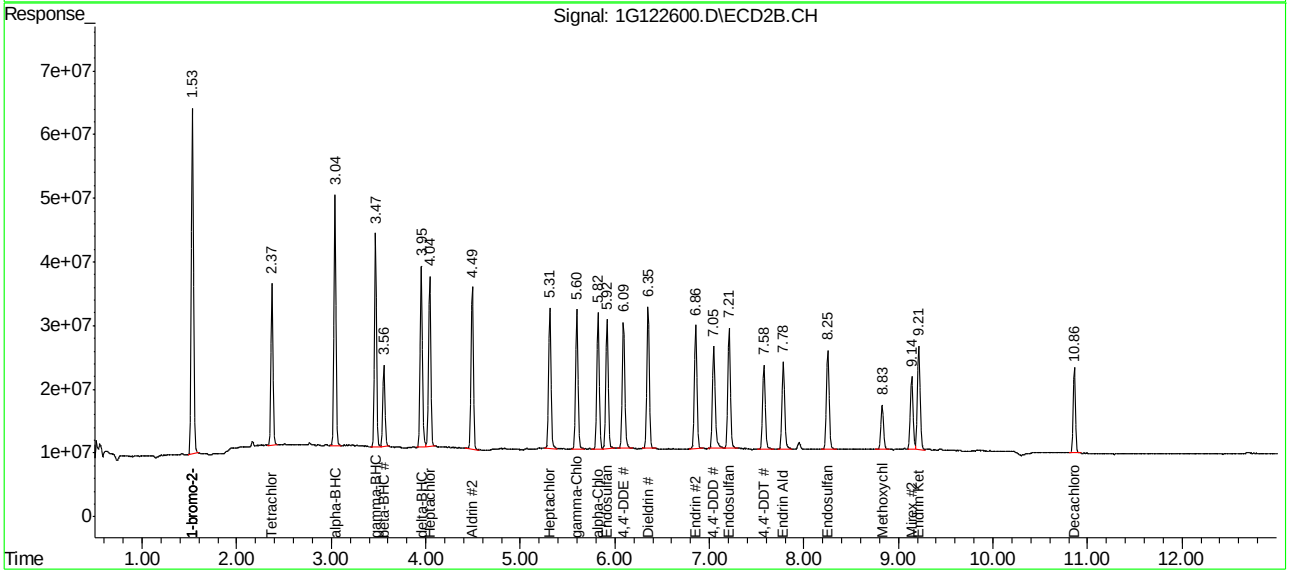
```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:51 2016  Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj.     : 1ul/column
Signal #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:	G1G3976-CC3973	**Method:**	SW846 8081B
Lab FileID:	1G122600.D	**Analyst approved:**	04/29/16 11:28 Brittany Piercy
Injection Time:	04/29/16 08:23	**Supervisor approved:**	04/29/16 12:19 Gwendolyn Burns

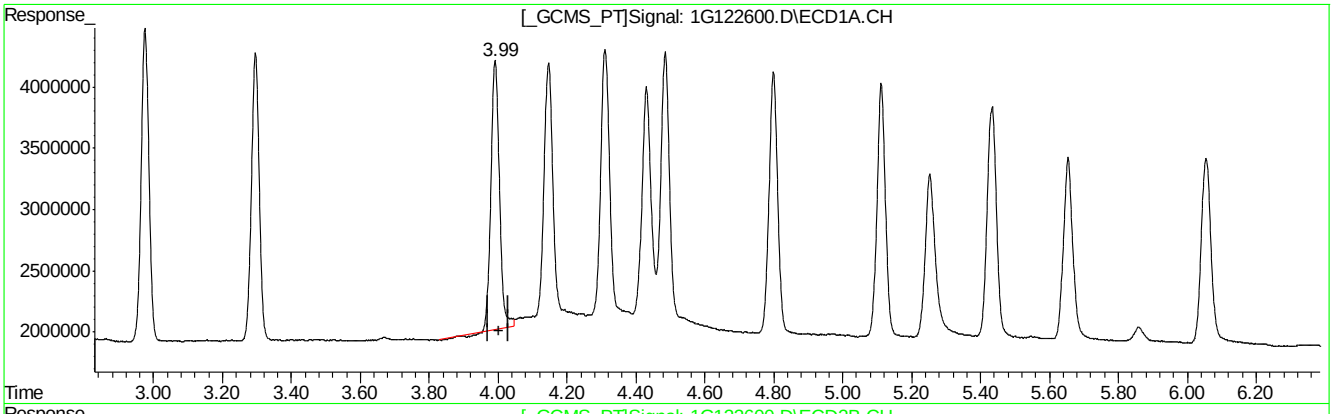
Parameter	CAS	Sig#	R.T. (min.)	Reason
Heptachlor epoxide	1024-57-3	1	3.99	Poor instrument integration
gamma-Chlordane	5103-74-2	1	4.15	Poor instrument integration
alpha-Chlordane	5103-71-9	1	4.31	Poor instrument integration

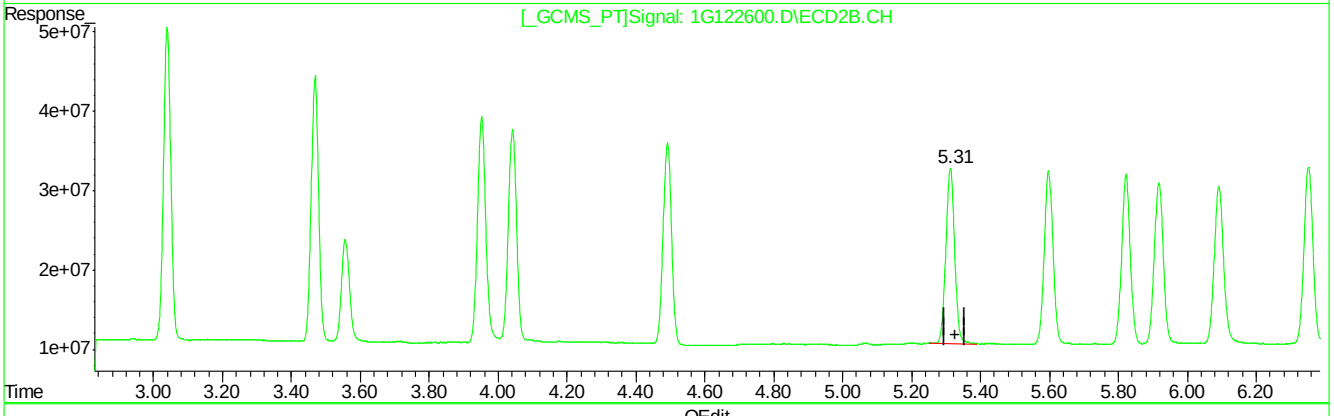
Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(9) Heptachlor Epoxide (B)

3.99min 23.678PPB

response 37354499

(9) Heptachlor Epoxide #2 (B)

5.31min 21.504PPB

response 392751765

(+) = Expected Retention Time

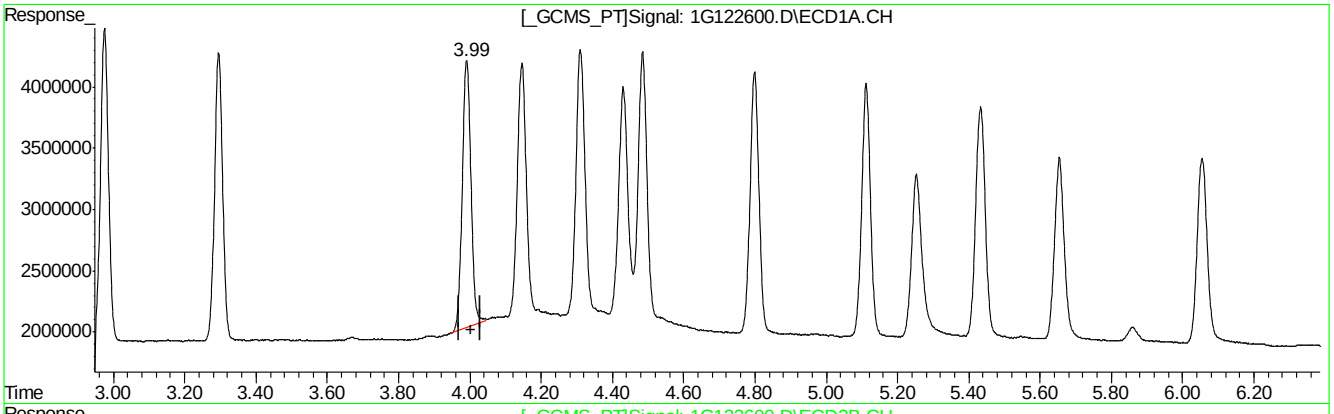
1G122600.D 1PST3973.M Fri Apr 29 08:50:16 2016 RPT1

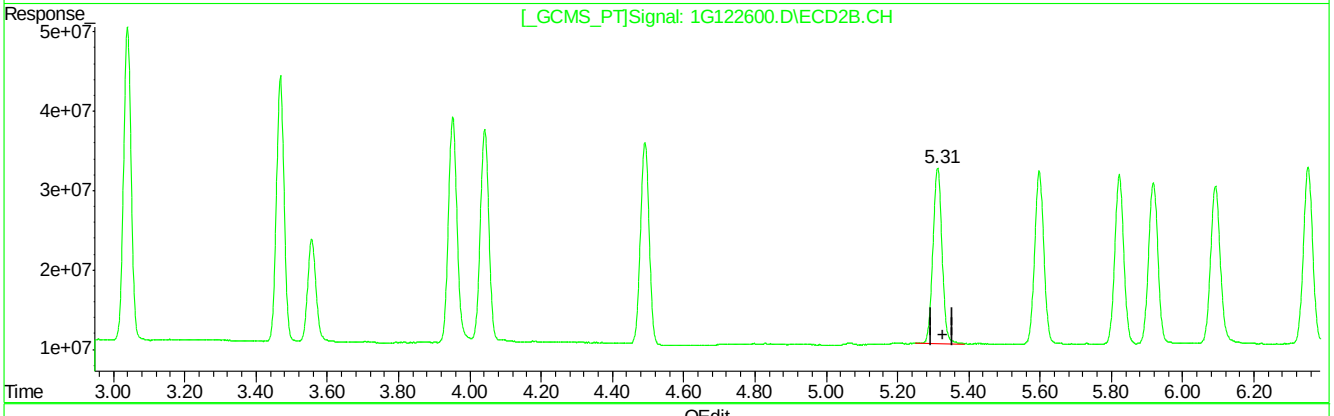
Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(9) Heptachlor Epoxide (B)

3.99min 23.250PPB m

response 36678776

(9) Heptachlor Epoxide #2 (B)

5.31min 21.504PPB

response 392751765

(+) = Expected Retention Time

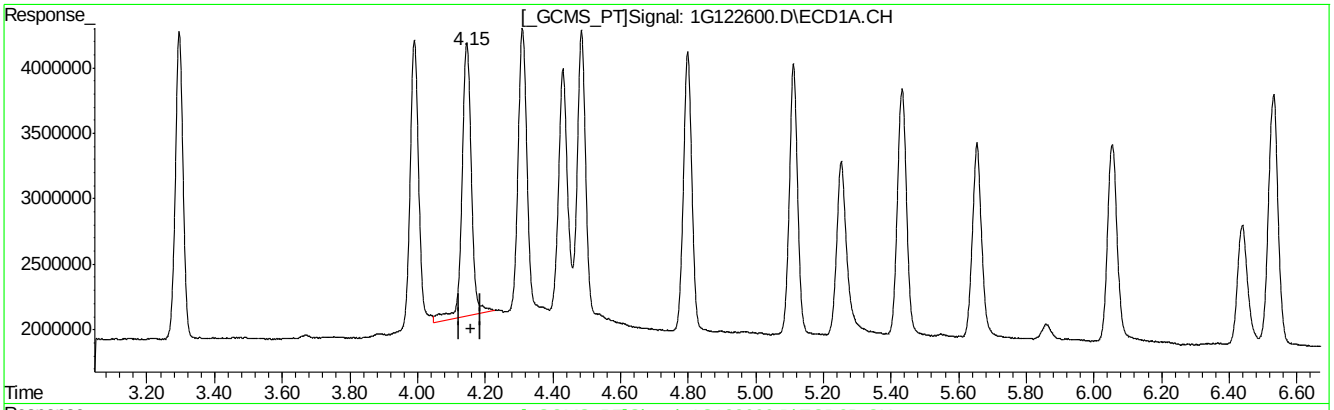
1G122600.D 1PST3973.M Fri Apr 29 08:50:23 2016 RPT1

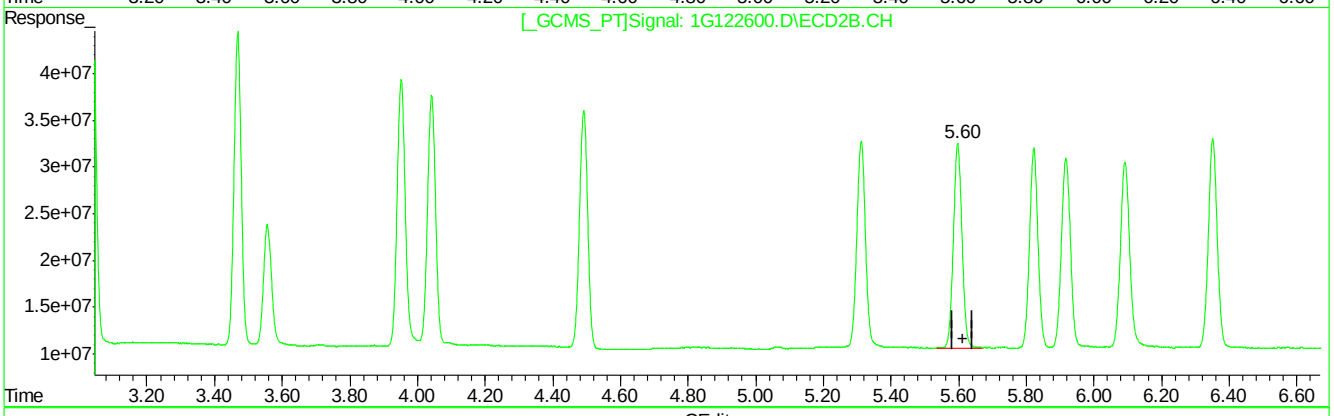
Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(10) gamma-Chlordane (B)

4.15min 24.954PPB

response 39884939

(10) gamma-Chlordane #2 (B)

5.60min 21.507PPB

response 387277267

(+) = Expected Retention Time

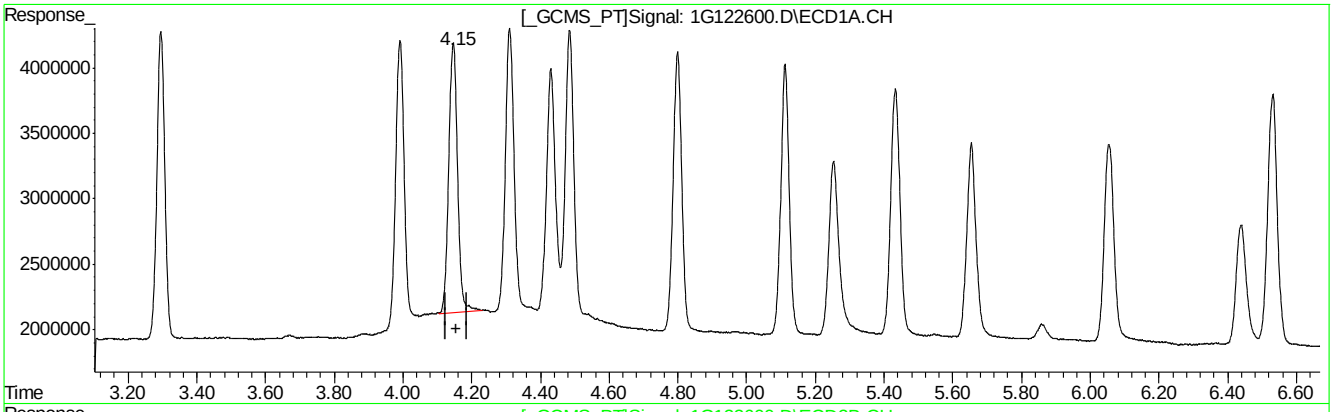
1G122600.D 1PST3973.M Fri Apr 29 08:50:27 2016 RPT1

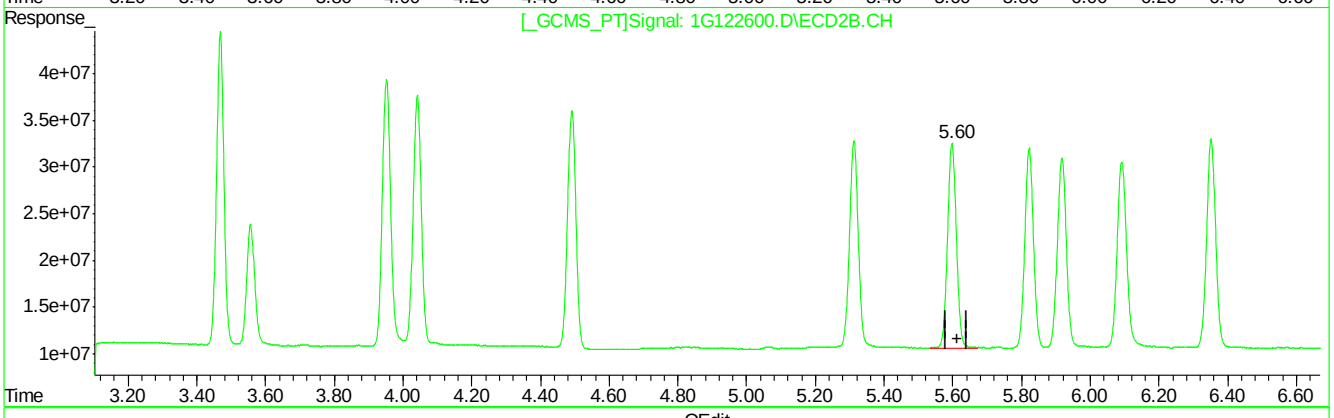
Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(10) gamma-Chlordane (B)

4.15min 22.911PPB m

response 36619780

(10) gamma-Chlordane #2 (B)

5.60min 21.507PPB

response 387277267

(+) = Expected Retention Time

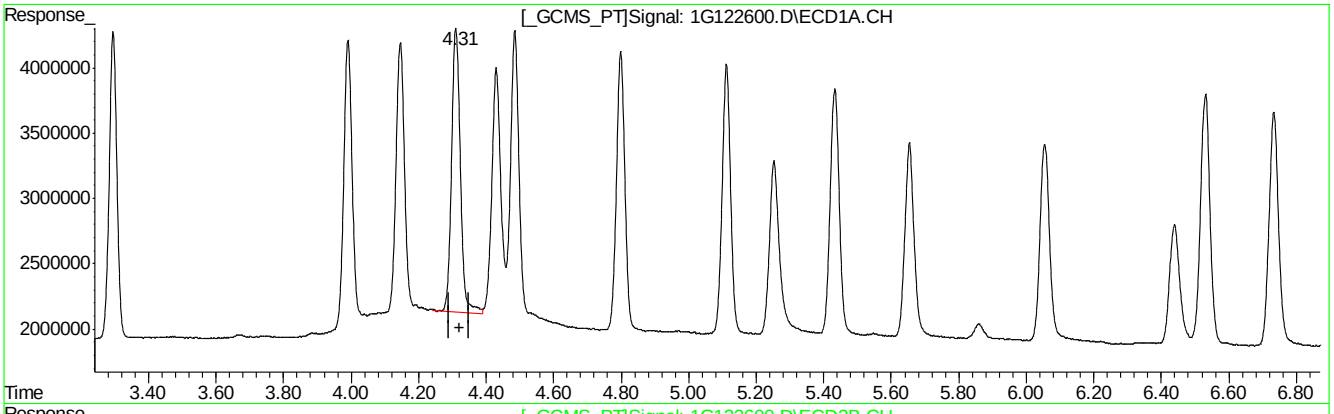
1G122600.D 1PST3973.M Fri Apr 29 08:50:33 2016 RPT1

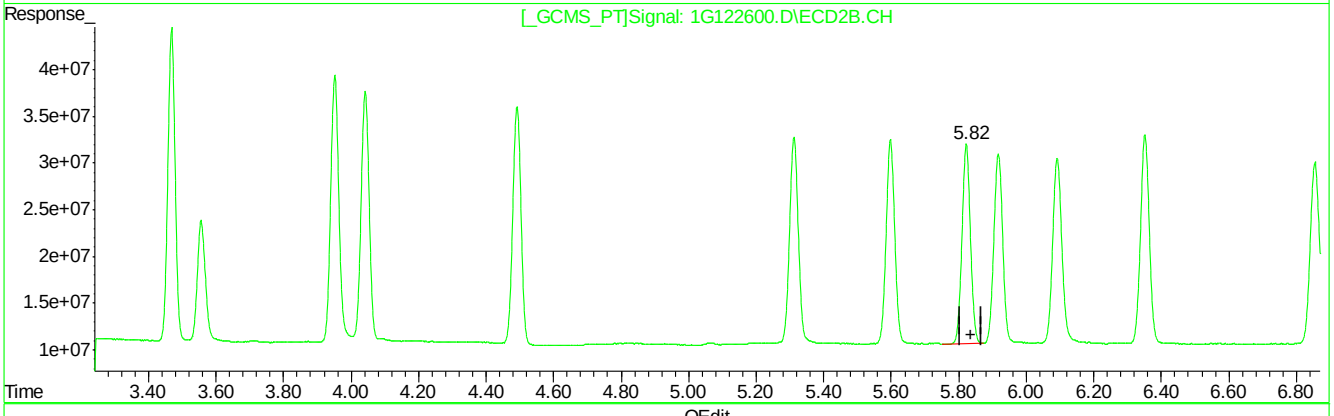
Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(11) alpha-Chlordane (B)

4.31min 24.624PPB

response 39555683

(11) alpha-Chlordane #2 (B)

5.82min 21.097PPB

response 370705955

(+) = Expected Retention Time

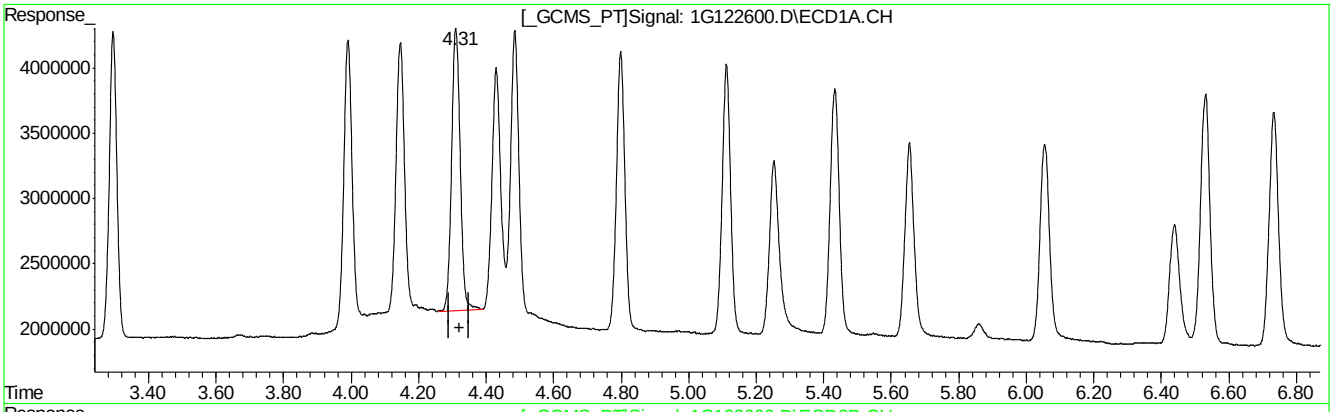
1G122600.D 1PST3973.M Fri Apr 29 08:50:40 2016 RPT1

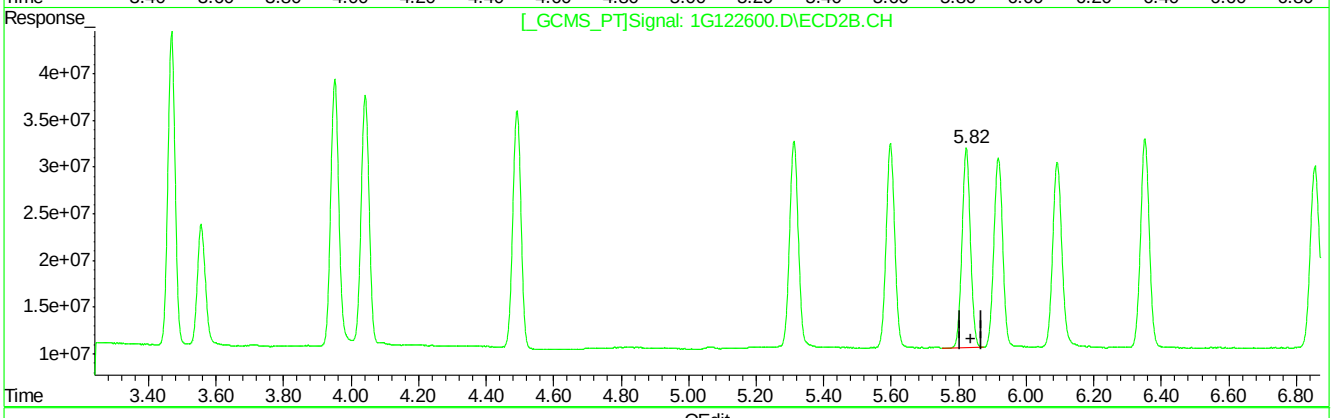
Quantitation Report (Qedit)

```
Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD1A.CH Vial: 2
Acq On    : 4-29-16 08:23:07 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\MSDCHEM\1\DATA\1G3976\1G122600.D\ECD2B.CH Vial: 2
Acq On    : 4-29-16 08:23:06 AM                          Operator: brittanp
Sample    : cc3973-25                                    Inst    : GC1G
Misc      : op90282,g1g39765,15.0,,,10,1                 Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Apr 29  8:36 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(11) alpha-Chlordane (B)

4.31min 23.928PPB m

response 38437755

(11) alpha-Chlordane #2 (B)

5.82min 21.097PPB

response 370705955

(+) = Expected Retention Time

1G122600.D 1PST3973.M Fri Apr 29 08:50:45 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/03/16 11:17

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD2B.CH
Acq On : 4-29-16 04:42:22 PM Operator: dharas
Sample : cc3973-50 Inst : GC1G
Misc : op93471,g1g3976,16.6,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 16:59 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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-nitrob	1.17	1.54	58190591	894.6E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.17	1.54	58190591	894.6E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.17	1.54	58190591	894.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.75	2.38	56173457	710.7E6	46.070	43.924
Spiked Amount	40.000	Range	30 - 150	Recovery	=	115.18%	109.81%
24) SA	Decachlorobiphen	8.94	10.86	96605628	411.9E6	44.871	43.645
Spiked Amount	40.000			Recovery	=	112.18%	109.11%
	Target Compounds						
3) A	alpha-BHC	2.22	3.04	76244127	1082.3E6	50.942m	44.148
4) MA	gamma-BHC	2.51	3.47	72186424	949.7E6	49.780	43.566
5) MA	Heptachlor	2.98	4.04	78072064	841.7E6	49.216	43.866
6) B	beta-BHC	2.59	3.56	32714004	397.2E6	45.830	43.060
7) B	delta-BHC	2.77	3.95	62366132	907.8E6	50.737	44.663
8) MB	Aldrin	3.30	4.49	74910541	845.3E6	48.607	41.516
9) B	Heptachlor Epoxi	3.99	5.31	72862560	751.5E6	47.143	41.816
10) B	gamma-Chlordane	4.15	5.60	75799972	737.4E6	48.406	41.619
11) B	alpha-Chlordane	4.31	5.82	80997382	707.9E6	51.466	40.947
12) A	Endosulfan I	4.49	5.92	82077244	705.4E6	48.827	41.188
13) B	4,4'-DDE	4.44	6.10	66080673	746.0E6	52.004	43.561
14) MA	Dieldrin	4.80	6.35	74130470	774.4E6	48.584	42.693
15) MA	Endrin	5.11	6.86	69192975	701.3E6	49.390	43.689
16) A	4,4'-DDD	5.26	7.05	50814211	651.2E6	47.450	43.532
17) B	Endosulfan II	5.44	7.21	67934010	687.0E6	48.146	43.175
18) MA	4,4'-DDT	5.66	7.58	49224651	446.1E6	49.134	46.384
19) B	Endrin Aldehyde	6.06	7.78	57000180	519.1E6	48.449	45.347
20) B	Endosulfan Sulfa	6.74	8.26	64945481	568.5E6	49.581	43.996
21) A	Methoxychlor	6.45	8.83	30166559	218.8E6	44.470	40.200
22)	Mirex	6.53	9.14	68886809	446.9E6	41.824	43.108
23) B	Endrin Ketone	7.16	9.22	75876141	611.9E6	58.378	51.118

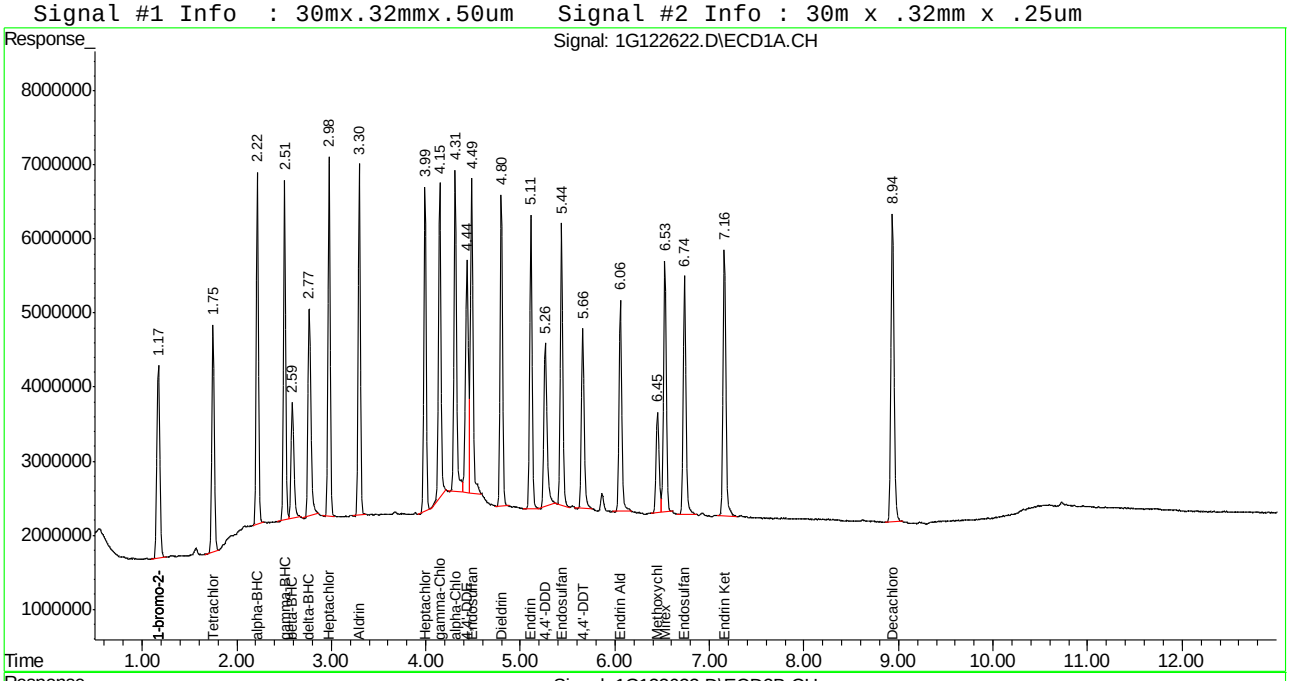
(f)=RT Delta > 1/2 Window (m)=manual int.

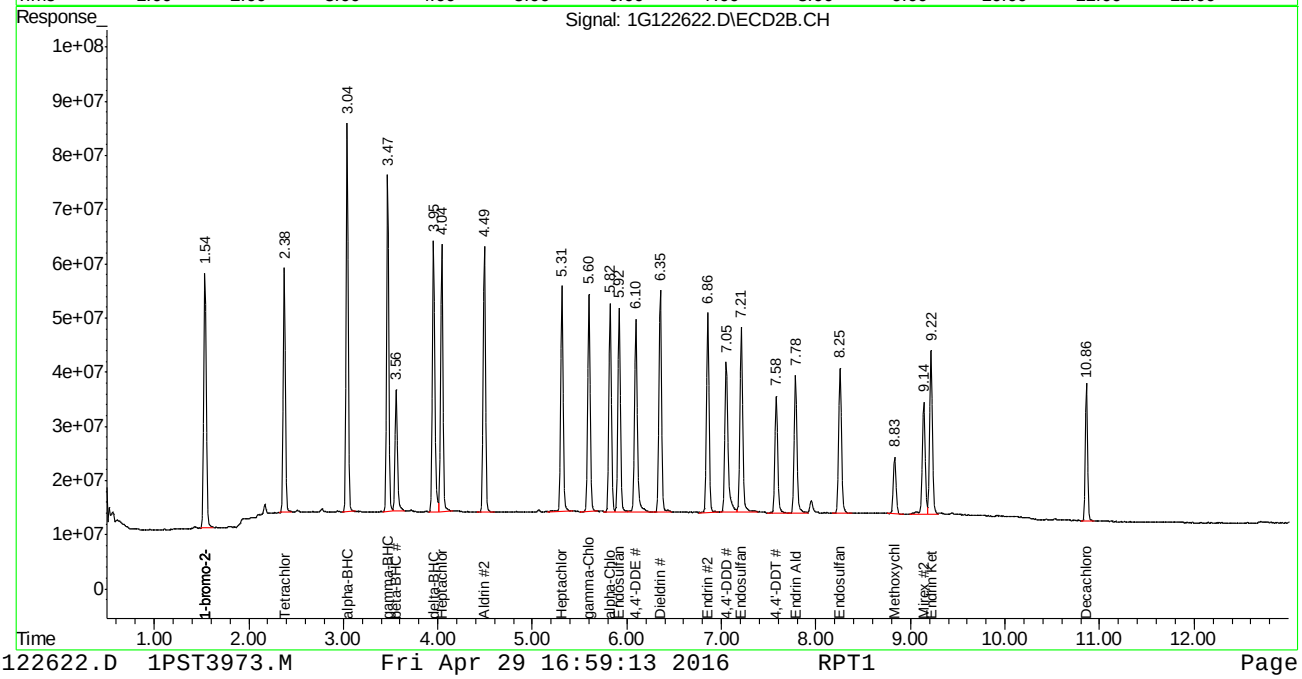
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD2B.CH
Acq On : 4-29-16 04:42:22 PM Operator: dharas
Sample : cc3973-50 Inst : GC1G
Misc : op93471,g1g3976,16.6,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Apr 29 16:59 2016 Quant Results File: 1PST3973.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3973.M

Volume Inj. : 1ul/column
Signal #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

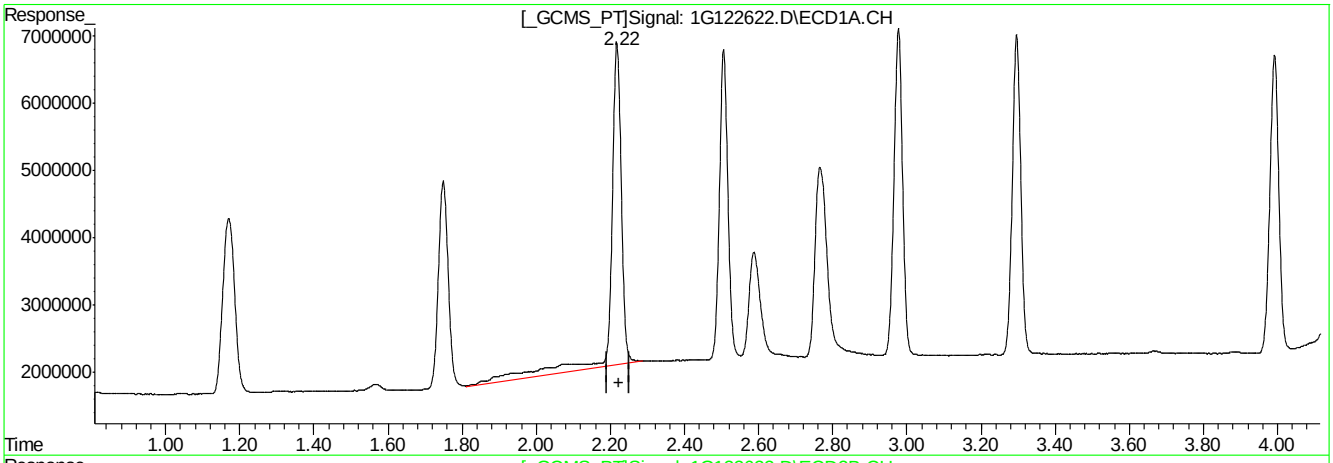
Sample Number:	G1G3976-CC3973	**Method:**	SW846 8081B
Lab FileID:	1G122622.D	**Analyst approved:**	05/02/16 11:39 Dhara Saparia
Injection Time:	04/29/16 16:42	**Supervisor approved:**	05/03/16 11:17 Gwendolyn Burns

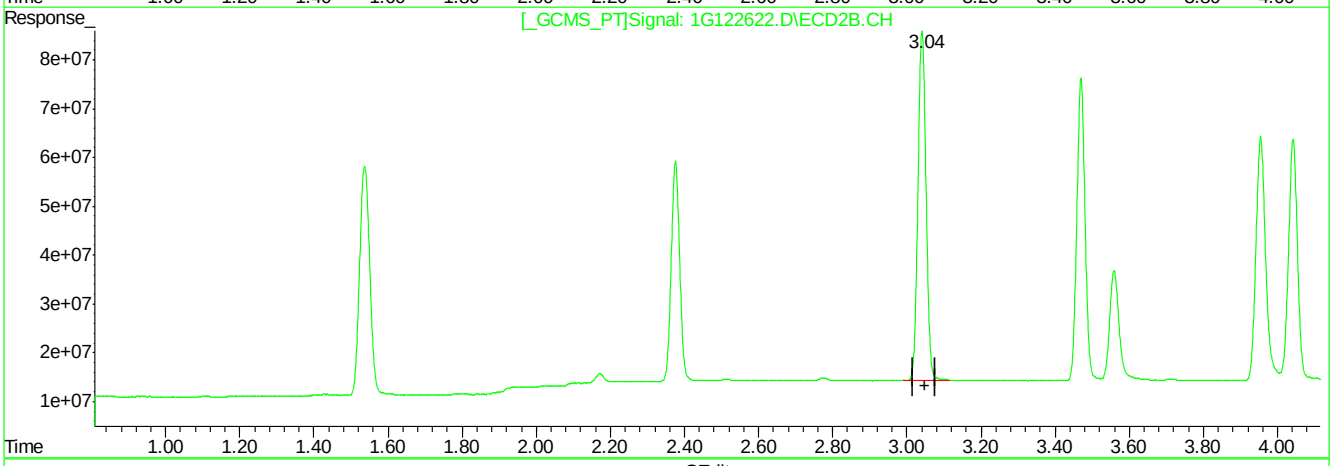
Parameter	CAS	Sig#	R.T. (min.)	Reason
alpha-BHC	319-84-6	1	2.22	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD2B.CH
Acq On    : 4-29-16 04:42:22 PM                      Operator: dharas
Sample    : cc3973-50                                Inst    : GC1G
Misc      : op93471,g1g3976,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 29 16:58 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(3) alpha-BHC (A)

2.22min 62.869PPB

response 94095912

(3) alpha-BHC #2 (A)

3.04min 44.148PPB

response 1082290314

(+) = Expected Retention Time

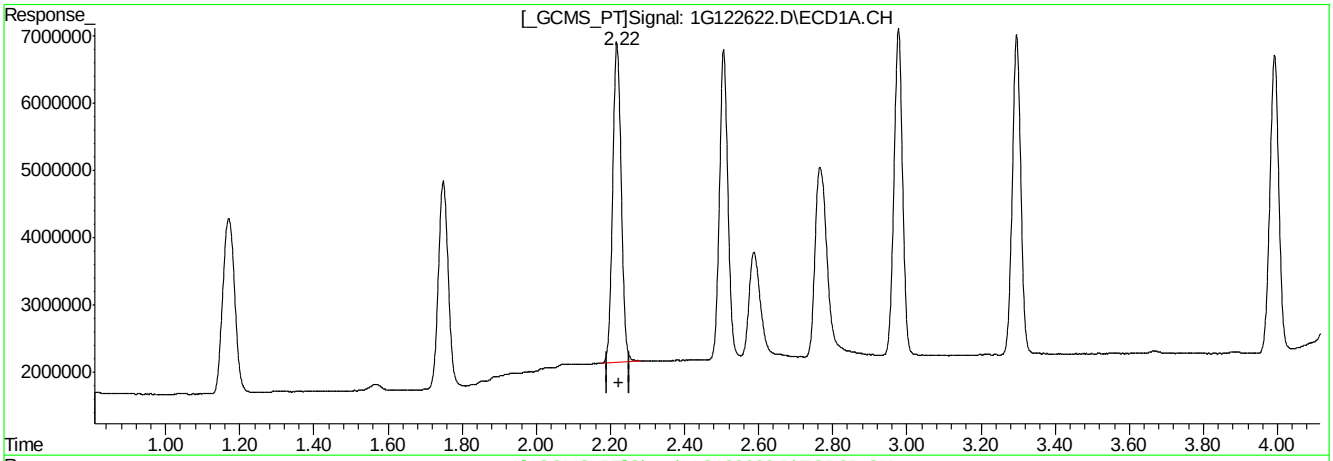
1G122622.D 1PST3973.M Fri Apr 29 16:58:59 2016 RPT1

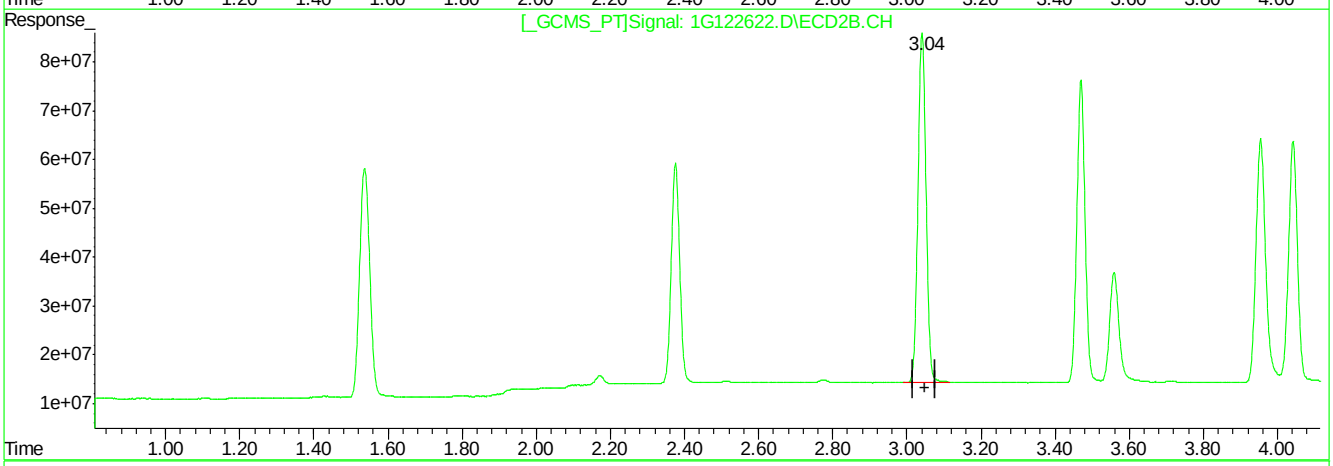
SGS ACCUTEST JC19214

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G3976\1G122622.D\ECD2B.CH
Acq On    : 4-29-16 04:42:22 PM                      Operator: dharas
Sample    : cc3973-50                                Inst    : GC1G
Misc      : op93471,g1g3976,16.6,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Apr 29 16:58 2016  Quant Results File: 1PST3973.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3973.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Apr 27 16:13:45 2016
Response via : Multiple Level Calibration
```





QEdit

(3) alpha-BHC (A)

2.22min 50.942PPB m

response 76244127

(3) alpha-BHC #2 (A)

3.04min 44.148PPB

response 1082290314

(+) = Expected Retention Time

1G122622.D 1PST3973.M Fri Apr 29 16:59:08 2016 RPT1

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: 0-16 3973

Print Analyst Name: Dhara Saporia

Date: 04/27/16

Analyst Signature: DS

Columns: 2BCLPI / 2BCLPII

Method 8081, 608

Initial Cal. Method 1PST 3973

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.
SV161874-1mA	Pest mix 1st source	25 PPB
-1mB		50
-1mC		1
-1mD		2
-1mE		5
-1mF		10
-1mG		75
-1mH		100
OP153564-137	mirex 2nd source	250 PPB

Standard Data

Lot #	Description	Conc.
SV161874-135	Pest ISTD	5 PPM
-74	PEM	10-250 PPB
-57	IB	20 PPB
-20	chlordane 1st	90 PPM
-21	Toxaphene 1st	10 PPM
-95	Pest mix 2nd source	250 PPB
-96	chlordane 2nd source	500 PPB
-97	Toxaphene 2nd source	500 PPB
160863	Hexane	

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: JK **Date:** 4/28/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	18122523	ddt				1			✓	OK	
	524	IB				2			✓	OK	
	525	IC3973-1	1st source			3			✓	OK	
	526	-2				4			✓	OK	
	527	-5				5			✓	OK	
	528	-10				6			✓	OK	
	529	ICC3973-25				7			✓	OK	
	530	IC3973-50				8			✓	OK	
	531	-75				9			✓	OK	
	532	-100				10			✓	OK	
	533	-500		CHL		11	20		✓	OK	
	534	-500		TOX		12	20		✓	OK	
	535	ICV3973-25	2nd source	pest		13	10		✓	OK	
	536	-25		mirex		14	10		✓	OK	
	537	-500		CHL		15			✓	OK	
	538	-500		TOX		16			✓	OK	

DK 4/27

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

179

Form: OR016-08
Rev. Date: 1/19/16

9.5.1 9

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G3976 BP 4/29/16

Print Analyst Name: Brittany Piercy

Analyst Signature: B.P.

Date: 04/29/2016

Columns: ZBCLPI / ZBCLP II

Method 8081 / 608

Initial Cal. Method IPST3973 BP 4/29

Injection Volume: 1µl

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16874-BS	Pest ISTD	5ppm
-79	Pem	10-250ppb
-148A	Pest Mix	25 ppb
-148B		50
-87	I.B.	20
161933-04	TBA Clean-up	—
160863	Hexane (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR **Date:** 5/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	19122599	ddt			W	1				OK	
	600	CC3973-25				2				OK	
	601	I.B.				3				OK	
	602	OP93460-MB1	93460-1	8081 TCL	W	5				OK	
	603	-BS1				6				OK	
	604	OP93471-MB1	93471-1	8081 TCL/PPL	S	7				OK	
	605	-BS1				8				OK	
	606	OP93460-BSD	93460-1	8081 TCL	W	9				OK	
	607	JC19214-1				10				OK	
	608	-2				11				OK	
	609	OP93457-MB1	93457-1	8081 TCL	S	12				OK	Had TBA
	610	-BS1				13				OK	
	611	JC19109-1				14				OK	
	612	JC19139-1				15				OK	
	613	-5				16				OK	
	614	JC19113-1	93471-1	8081 PPL	S	17				OK	
	615	-10				18				OK	
	616	-19				19				OK	
	617	JC19164-5		TCL		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: G1G3976

Print Analyst Name: Brittany Piercy

Date: 04/29/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM164874-135	Pest ISTD	5 ppm
-79	Pem	10-250ppb
-148B	Pest Mix	50 ppb
-148A	1	25
-87	I.B.	20
160863	Hexane (Fisher)	—

Columns: ZBCLP I / ZBCLP II

Method 8081 / 608

Initial Cal. Method ~~4PST~~ IPST3973 BP 4/29/16

Injection Volume: 1µL

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: JR **Date:** 5/3/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	19 122618	JC19164-10	93471-1	8081 TCL	S	21				OK	
	619	OP93471-MS				22				OK	
	620	-MSD				23				OK	
	621	dblt				1				OK	
	622	CC3973-50				4				OK	
	623	F3				3				OK	
	624	JC19972-1	93471	8081 TCL	S	5				OK	
	625	-2				6				OK	
	626	-3				7				OK	
	627	JC19023-1				8				OK	Y-solid
	628	-2				9				OK	
	629	-4				10				OK	
	630	OP90282-MS1	90282			11				OK	
	631	JC19967B-1A	BS1			12				OK	
	632	-1A	BS2			13				OK	
	633	-1B	BS3			14				OK	
	634	-1B	BS4			15				OK	
	635	-1C	BS5			16				OK	
	636	-1C	BS6			17				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

191

Form: OR016-08

9.5.2 9

LOGBOOK ID: 6-1741

Pest/PCB Extraction Log - Aqueous

Date Started: 4/28/16 Time Started: 2000
Date Finished: 4/28/16 Time Finished: 2300

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # GC 93460	RACK# Pest 100
Extracted by:	RF
Concentrated by:	BF
Vialed by:	KS
Relinquished by:	
Accepted by:	
Supervisor Review:	4/29/16

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)	Extract Cleanup GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	300	clear	2		✓			
BS1	LV1			DI H2O	300	clear	2		✓			
BSD MS	1			DI H2O	300	clear	2		✓			
MSD												
BS												
MS												
MSD												
1 JC19214-1	Pest	4		tan	270	clear	2		✓			
2 -2	LV1	4		tan	280	clear	2		✓			
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Idex TAT

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	2	65	–	–	OK
Buchi Chiller	B2	11	–	–	OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	OP1617275	400 ppb	0.2

WITNESS SIGN: GM SPIKE SIGN: RF

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST OP	1617277A	250 ppb	0.2
PCB			

WITNESS SIGN: GM SPIKE SIGN: RF

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162489	Fisher	316015
HEXANE	157194	Fisher	50

GM 4/28

REAGENT	LOT #	BRAND
Sodium Sulfate	153803	Fisher
Glass Wool	02205-2	Lab
Filter Paper		
Copper	OP1617360	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

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Misc. Forms

Custody Documents and Other Forms

(SGS Accutest Southeast)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

CHAIN OF CUSTODY

SGS ACCUTEST

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

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job: JC19214

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Project Contact: sarad E-mail: sarad@accutest.com
Phone #: 732-329-0200 Fax #:
Sampler(s) Name(s): TT Phone:

Project Information

Project Name: BMSMC, Building 5 Area, PR
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	D8015LMA	LAB USE ONLY
1A	RA17-GWD		4/27/16	1:35:00 PM	TT	AQ	3	3								X	
2A	RA17-GWS		4/27/16	11:30:00 AM	TT	AQ	3	3								X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 5/5/2016

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other FULT1

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

Comments / Special Instructions: Foreign soil

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	4-28-16 1700	1 FEDEX	2 FX		2 4/29/16 945
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 761	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp. 3.2

10.1 10

JC19214: Chain of Custody
Page 1 of 3
SGS Accutest Southeast

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: JC19214 CLIENT: ALNJ PROJECT: BMSMC

DATE/TIME RECEIVED: 4/29/16 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 5633 9349 1238

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.2 (USED FOR LIMS)

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#
  {APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 4/29/16 REVIEWER SIGNATURE/DATE 4-29-16

NF 11/15 RECEIPTLOG040416.xls

10.1 10

ORIGIN ID:ZRPA (732) 329-0200
SAMPLE MGT.
SGS ACCUTEST
2235 US HIGHWAY 130

DAYTON, NJ 08810
UNITED STATES US

SHIP DATE: 28APR16
ACTWGT: 17.8 LB
CAD: 0743430/CAFE2912

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND ROAD
SUITE C-15
ORLANDO FL 32811
(407) 425-6700
REF: JC19214 / D8015LMA

FedEx Express

TRK# 0201 5633 9349 1238

FRI - 29 APR 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US MCO

Part # 156148V-434 RT2 (0217) ••

phone: 1-866-755-4676

UNV12303
MADE IN USA

10.1

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JC19214: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Accutest New Jersey

Job No: JC19214

AMANYWP: BMSMC, Building 5 Area, PR
Project No: AMANYWP22704

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC19214-1A	Collected: 27-APR-16 13:35 By: TT		Received: 28-APR-16 By: JC			
RA17-GWD						
JC19214-1A	SW846 8015C	02-MAY-16 19:18	SH			D8015LMA
JC19214-2A	Collected: 27-APR-16 11:30 By: TT		Received: 28-APR-16 By: JC			
RA17-GWS						
JC19214-2A	SW846 8015C	02-MAY-16 19:39	SH			D8015LMA

GC Volatiles

QC Data Summaries

(SGS Accutest Southeast)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2772-MB	XY064091.D	1	05/02/16	SH	n/a	n/a	GXY2772

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC19214-1A, JC19214-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	5.0	1.0	mg/l	
78-83-1	Isobutyl Alcohol	ND	5.0	1.0	mg/l	
67-63-0	Isopropyl Alcohol	ND	5.0	1.0	mg/l	
71-23-8	n-Propyl Alcohol	ND	5.0	1.0	mg/l	
71-36-3	n-Butyl Alcohol	ND	5.0	1.0	mg/l	
67-56-1	Methanol	ND	5.0	1.0	mg/l	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	91%	73-123%

Blank Spike Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GXY2772-BS	XY064090.D	1	05/02/16	SH	n/a	n/a	GXY2772

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC19214-1A, JC19214-2A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
64-17-5	Ethanol	100	94.3	94	73-120
78-83-1	Isobutyl Alcohol	100	89.7	90	67-116
67-63-0	Isopropyl Alcohol	100	93.3	93	69-118
71-23-8	n-Propyl Alcohol	100	93.5	94	71-119
71-36-3	n-Butyl Alcohol	100	93.9	94	69-119
67-56-1	Methanol	100	92.5	93	70-118

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	91%	73-123%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC19214-2AMS	XY064095.D	1	05/02/16	SH	n/a	n/a	GXY2772
JC19214-2AMSD	XY064096.D	1	05/02/16	SH	n/a	n/a	GXY2772
JC19214-2A	XY064094.D	1	05/02/16	SH	n/a	n/a	GXY2772

The QC reported here applies to the following samples: **Method:** SW846 8015C

JC19214-1A, JC19214-2A

CAS No.	Compound	JC19214-2A mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		100	104	104	100	104	104	0	73-120/16
78-83-1	Isobutyl Alcohol	ND		100	99.9	100	100	102	102	2	67-116/17
67-63-0	Isopropyl Alcohol	ND		100	105	105	100	107	107	2	69-118/17
71-23-8	n-Propyl Alcohol	ND		100	105	105	100	106	106	1	71-119/17
71-36-3	n-Butyl Alcohol	ND		100	105	105	100	106	106	1	69-119/17
67-56-1	Methanol	ND		100	102	102	100	103	103	1	70-118/17

CAS No.	Surrogate Recoveries	MS	MSD	JC19214-2A	Limits
111-27-3	Hexanol	99%	102%	101%	73-123%

11.3.1

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* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Method: SW846 8015C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JC19214-1A	XY064093.D	90
JC19214-2A	XY064094.D	101
GXY2772-BS	XY064090.D	91
GXY2772-MB	XY064091.D	91
JC19214-2AMS	XY064095.D	99
JC19214-2AMSD	XY064096.D	102

Surrogate Compounds	Recovery Limits
S1 = Hexanol	73-123%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR

Check Std:	GXY2772-CC2772	**Injection Date:**	05/02/16
Lab File ID:	XY064089.D	**Injection Time:**	17:52
Instrument ID:	GCXY	**Method:**	SW846 8015C

	S1 [a] **RT**
Check Std	13.71

Lab Sample ID	**Lab File ID**	**Date Analyzed**	**Time Analyzed**	**S1** [a] **RT**
GXY2772-BS	XY064090.D	05/02/16	18:13	13.71
GXY2772-MB	XY064091.D	05/02/16	18:35	13.71
ZZZZZZ	XY064092.D	05/02/16	18:56	13.71
JC19214-1A	XY064093.D	05/02/16	19:18	13.71
JC19214-2A	XY064094.D	05/02/16	19:39	13.71
JC19214-2AMS	XY064095.D	05/02/16	20:00	13.71
JC19214-2AMSD	XY064096.D	05/02/16	20:22	13.71
GXY2772-ECC2772	XY064097.D	05/02/16	20:44	13.71

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2772-ICC2772
Lab FileID: XY064083.D

Response Factor Report VOA5

Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration

Calibration Files
1 =XY064080.D 2 =XY064081.D 3 =XY064082.D 4 =XY064083.D
5 =XY064084.D 6 =XY064085.D 7 =XY064086.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) Methanol	2.993	2.776	2.570	2.800	2.625	2.668	2.600	2.719 E3	5.47
2) Isopropyl alcohol	3.875	3.653	3.396	3.732	3.600	3.854	3.786	3.699 E3	4.52
3) Ethanol	4.250	4.356	4.414	4.738	4.328	4.285	4.111	4.355 E3	4.46
4) n-Propyl alcohol	4.680	4.908	4.779	5.178	4.877	4.979	4.856	4.894 E3	3.21
5) Isobutyl alcohol	5.533	5.722	5.377	5.923	5.587	5.802	5.680	5.661 E3	3.18
6) n-Butyl alcohol	4.887	5.051	5.145	5.604	5.295	5.476	5.343	5.257 E3	4.72
7) 2-Ethoxyethanol	2.716	2.718	2.879	3.121	2.999	3.028	3.012	2.924 E3	5.41
8)S Hexanol	5.039	5.012	5.938	5.281	5.163	5.411	5.287	5.304 E3	5.91

(#) = Out of Range

D8015.M Tue May 03 09:21:32 2016

11.6.1

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Initial Calibration Verification

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2772-ICV2772
Lab FileID: XY064088.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050216\XY064088.D          Vial: 10
Acq On    :  2 May 2016   5:30 pm                   Operator: StevenH
Sample    : icv2772-4                               Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 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	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	100.000	112.212	-12.2	109	0.00	2.11- 2.71
2	Isopropyl alcohol	100.000	114.624	-14.6	114	0.00	2.44- 3.04
3	Ethanol	100.000	113.077	-13.1	104	0.00	2.62- 3.22
4	n-Propyl alcohol	100.000	114.047	-14.0	108	0.00	4.80- 5.40
5	Isobutyl alcohol	100.000	108.938	-8.9	104	0.00	6.56- 7.16
6	n-Butyl alcohol	100.000	114.044	-14.0	107	0.03	8.44- 9.04
7	2-Ethoxyethanol	100.000	116.228	-16.2	109	0.02	10.91-11.51
8 S	Hexanol	100.000	109.019	-9.0	110	0.00	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064083.D D8015.M Tue May 03 09:21:06 2016

11.6.2

11

Continuing Calibration Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2772-CC2772
Lab FileID: XY064089.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050216\XY064089.D          Vial: 5
Acq On    :  2 May 2016   5:52 pm                   Operator: StevenH
Sample    : cc2772-4                                Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 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	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	100.000	97.075	2.9	94	0.02	2.11- 2.71
2	Isopropyl alcohol	100.000	96.724	3.3	96	0.01	2.44- 3.04
3	Ethanol	100.000	101.063	-1.1	93	0.02	2.62- 3.22
4	n-Propyl alcohol	100.000	99.934	0.1	94	0.02	4.80- 5.40
5	Isobutyl alcohol	100.000	98.788	1.2	94	0.02	6.56- 7.16
6	n-Butyl alcohol	100.000	100.502	-0.5	94	0.02	8.44- 9.04
7	2-Ethoxyethanol	100.000	101.978	-2.0	96	0.01	10.91-11.51
8 S	Hexanol	100.000	94.196	5.8	95	0.00	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064083.D D8015.M Tue May 03 09:21:06 2016

11.6.3 11

Continuing Calibration Summary

Job Number: JC19214
Account: ALNJ Accutest New Jersey
Project: AMANYWP: BMSMC, Building 5 Area, PR
Sample: GXY2772-ECC2772
Lab FileID: XY064097.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\2\DATA\050216\XY064097.D          Vial: 6
Acq On    :  2 May 2016   8:44 pm                   Operator: StevenH
Sample    : ecc2772-5                               Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E

Method       : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 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	Amount	Calc.	%Drift	Area%	Dev(min)	RT Window
1	Methanol	250.000	249.489	0.2	103	0.00	2.11- 2.71
2	Isopropyl alcohol	250.000	257.825	-3.1	106	0.00	2.44- 3.04
3	Ethanol	250.000	256.137	-2.5	103	0.00	2.62- 3.22
4	n-Propyl alcohol	250.000	259.830	-3.9	104	0.00	4.80- 5.40
5	Isobutyl alcohol	250.000	258.569	-3.4	105	0.00	6.56- 7.16
6	n-Butyl alcohol	250.000	263.567	-5.4	105	0.00	8.44- 9.04
7	2-Ethoxyethanol	250.000	258.681	-3.5	101	0.00	10.91-11.51
8 S	Hexanol	250.000	253.719	-1.5	104	0.00	13.40-14.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
XY064084.D D8015.M Tue May 03 09:20:41 2016

11.6.4

11

GC Volatiles

Raw Data

(SGS Accutest Southeast)

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064093.D          Vial: 14
Acq On    :  2 May 2016   7:18 pm                   Operator: StevenH
Sample    : jc19214-1a                              Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:42 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.71	477847	90.087	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 90.09%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

12.1.1

12

(f)=RT Delta > 1/2 Window (m)=manual int.

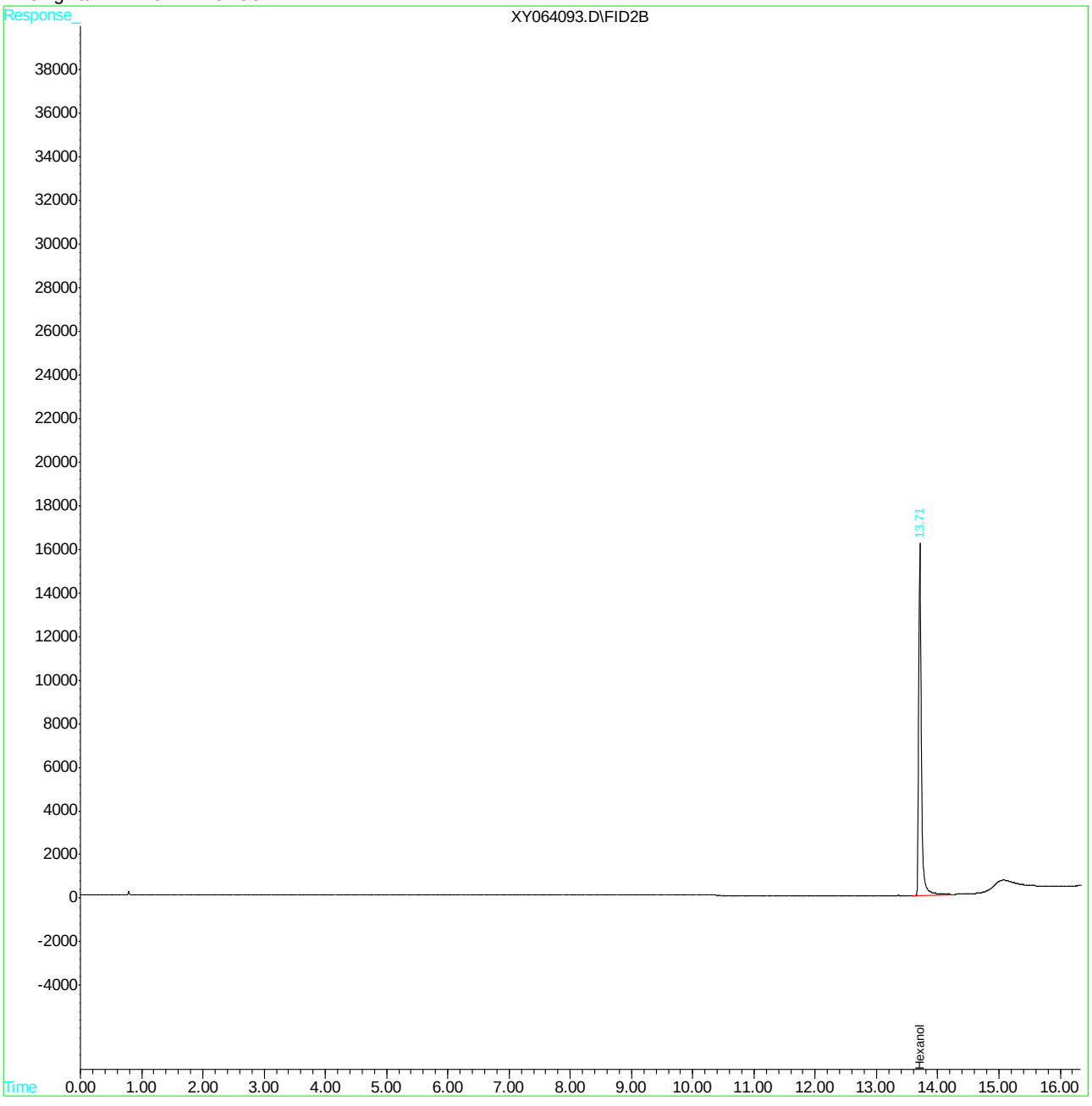
SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064093.D Vial: 14
Acq On : 2 May 2016 7:18 pm Operator: StevenH
Sample : jc19214-1a Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064094.D          Vial: 15
Acq On    :  2 May 2016   7:39 pm                   Operator: StevenH
Sample    : jc19214-2a                              Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:42 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

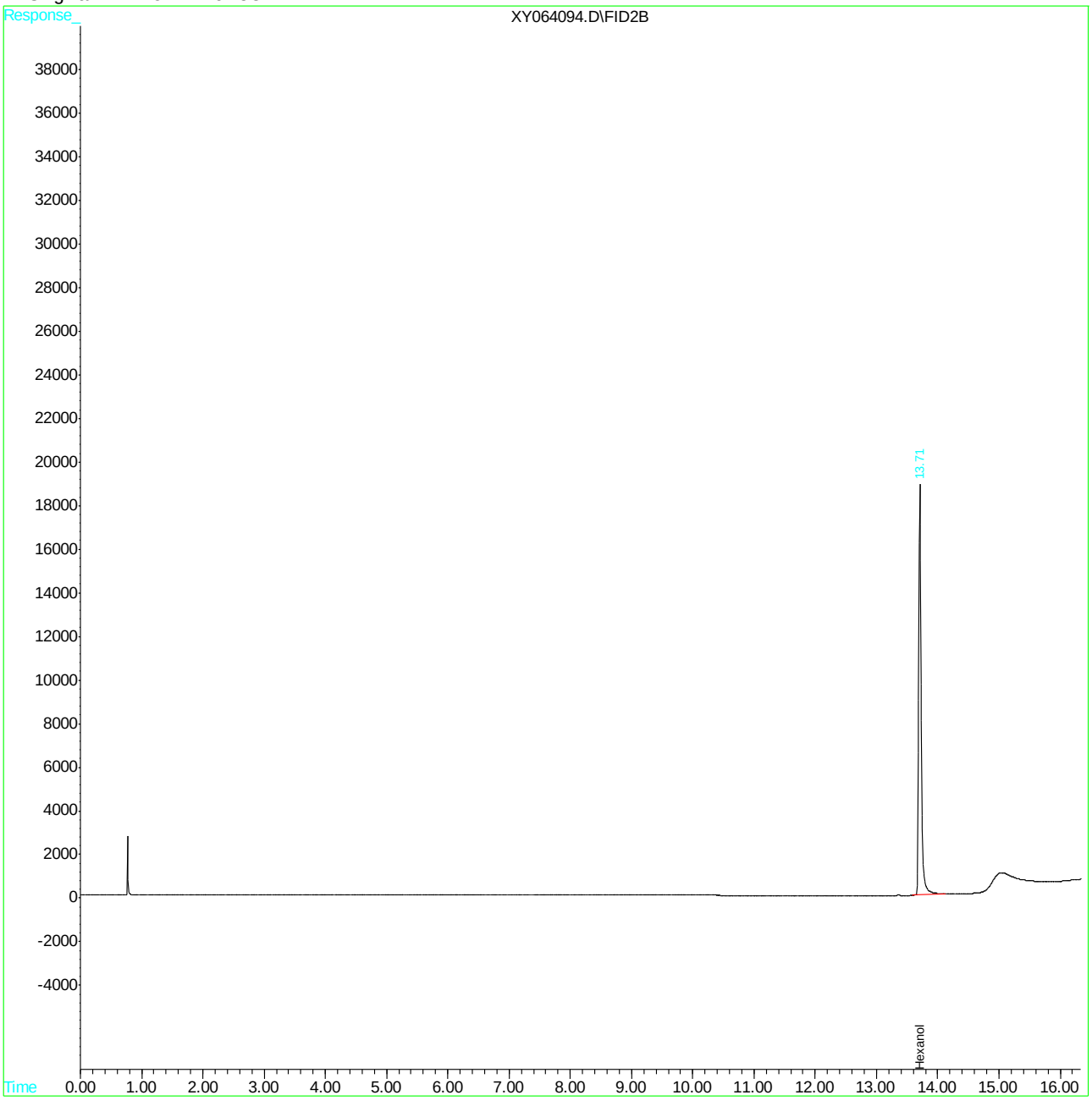
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.71	535289	100.916	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 100.92%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064094.D Vial: 15
Acq On : 2 May 2016 7:39 pm Operator: StevenH
Sample : jc19214-2a Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:42 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064091.D          Vial: 12
Acq On    :  2 May 2016   6:35 pm                   Operator: StevenH
Sample    : mb                                      Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:38 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
8) S Hexanol	13.71	481084	90.697	mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 90.70%				
Target Compounds				
1) Methanol	0.00	0	N.D.	mg/L
2) Isopropyl alcohol	0.00	0	N.D.	mg/L
3) Ethanol	0.00	0	N.D.	mg/L
4) n-Propyl alcohol	0.00	0	N.D.	mg/L
5) Isobutyl alcohol	0.00	0	N.D.	mg/L
6) n-Butyl alcohol	0.00	0	N.D.	mg/L
7) 2-Ethoxyethanol	0.00	0	N.D.	mg/L

12.2.1

12

(f)=RT Delta > 1/2 Window (m)=manual int.

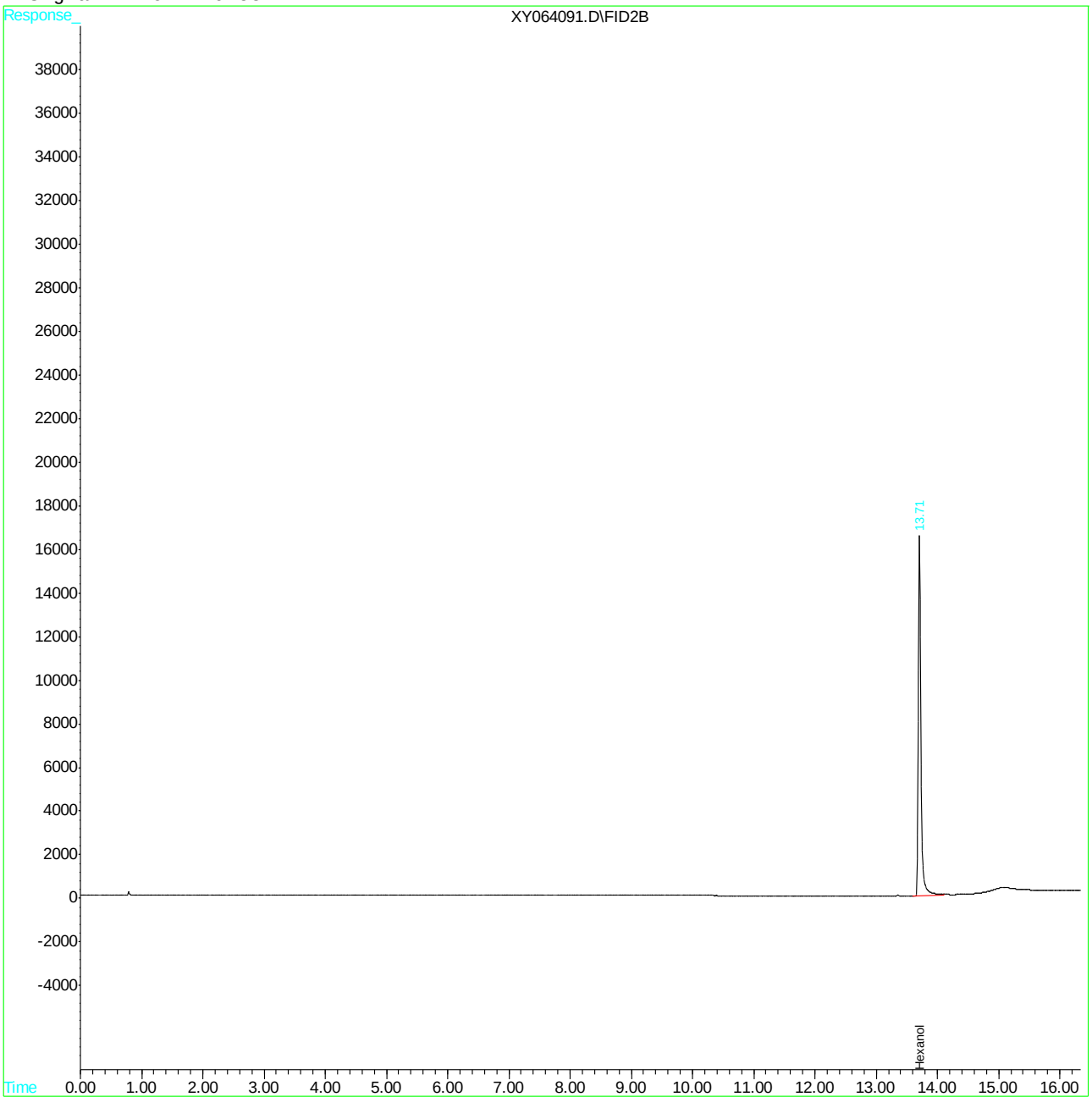
SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064091.D Vial: 12
Acq On : 2 May 2016 6:35 pm Operator: StevenH
Sample : mb Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064090.D          Vial: 11
Acq On    :  2 May 2016   6:13 pm                   Operator: StevenH
Sample    : bs                                      Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:41 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.71	480796	90.643 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 90.64%			
Target Compounds			
1) Methanol	2.43	251401	92.468 mg/L
2) Isopropyl alcohol	2.75	345075	93.279 mg/L
3) Ethanol	2.94	410446	94.258 mg/L
4) n-Propyl alcohol	5.13	457801	93.545 mg/L
5) Isobutyl alcohol	6.88	507604	89.672 mg/L
6) n-Butyl alcohol	8.76	493640	93.897 mg/L
7) 2-Ethoxyethanol	11.22	300185	102.647 mg/L

12.3.1

12

(f)=RT Delta > 1/2 Window (m)=manual int.

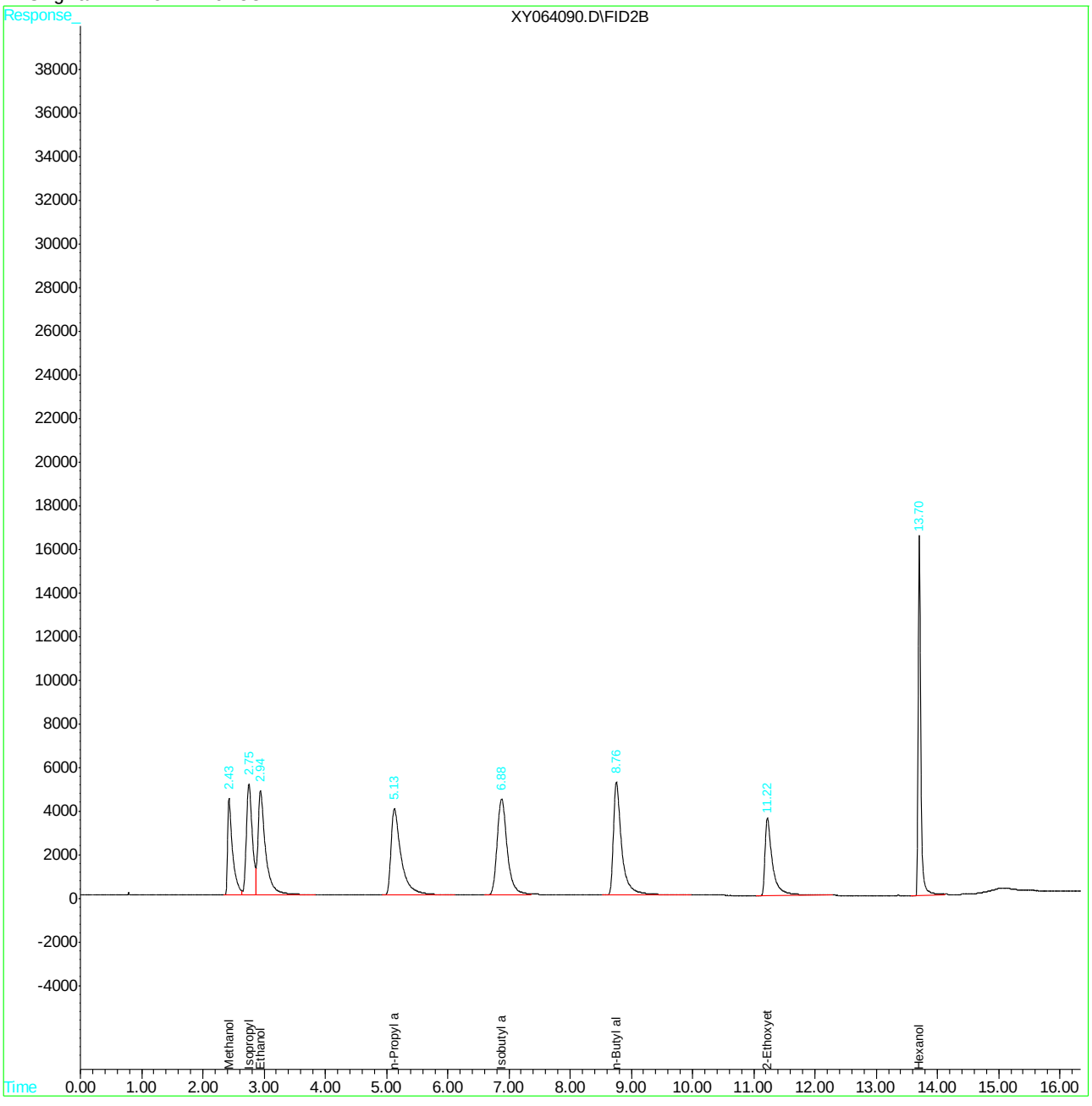
SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064090.D Vial: 11
Acq On : 2 May 2016 6:13 pm Operator: StevenH
Sample : bs Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:41 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064095.D Vial: 16
Acq On : 2 May 2016 8:00 pm Operator: StevenH
Sample : jc19214-2ams Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:43 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.71	522532	98.511 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 98.51%			
Target Compounds			
1) Methanol	2.41	278371	102.388 mg/L
2) Isopropyl alcohol	2.74	388424	104.997 mg/L
3) Ethanol	2.93	451158	103.607 mg/L
4) n-Propyl alcohol	5.11	511846	104.588 mg/L
5) Isobutyl alcohol	6.87	565222	99.851 mg/L
6) n-Butyl alcohol	8.75	550391	104.691 mg/L
7) 2-Ethoxyethanol	11.22	313154	107.081 mg/L

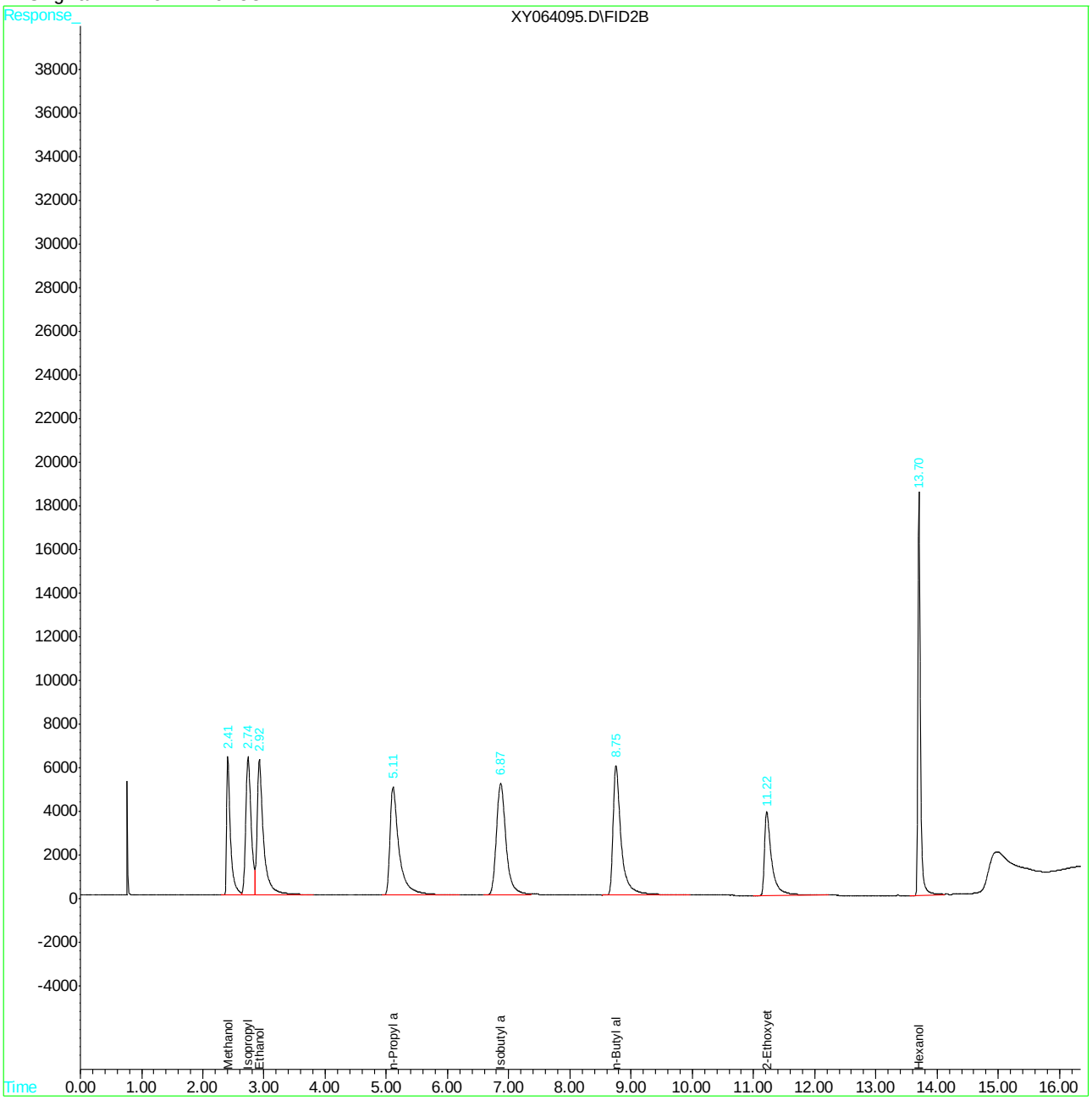
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064095.D D8015.M Tue May 03 09:18:09 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064095.D Vial: 16
Acq On : 2 May 2016 8:00 pm Operator: StevenH
Sample : jc19214-2ams Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:43 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064096.D Vial: 16
Acq On : 2 May 2016 8:22 pm Operator: StevenH
Sample : jc19214-2amsd Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:43 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.71	538624	101.545 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 101.55%			
Target Compounds			
1) Methanol	2.41	280163	103.047 mg/L
2) Isopropyl alcohol	2.74	394752	106.707 mg/L
3) Ethanol	2.93	452858	103.998 mg/L
4) n-Propyl alcohol	5.11	516396	105.517 mg/L
5) Isobutyl alcohol	6.87	574863	101.554 mg/L
6) n-Butyl alcohol	8.77	556665	105.885 mg/L
7) 2-Ethoxyethanol	11.23	320429	109.569 mg/L

12.4.2 12

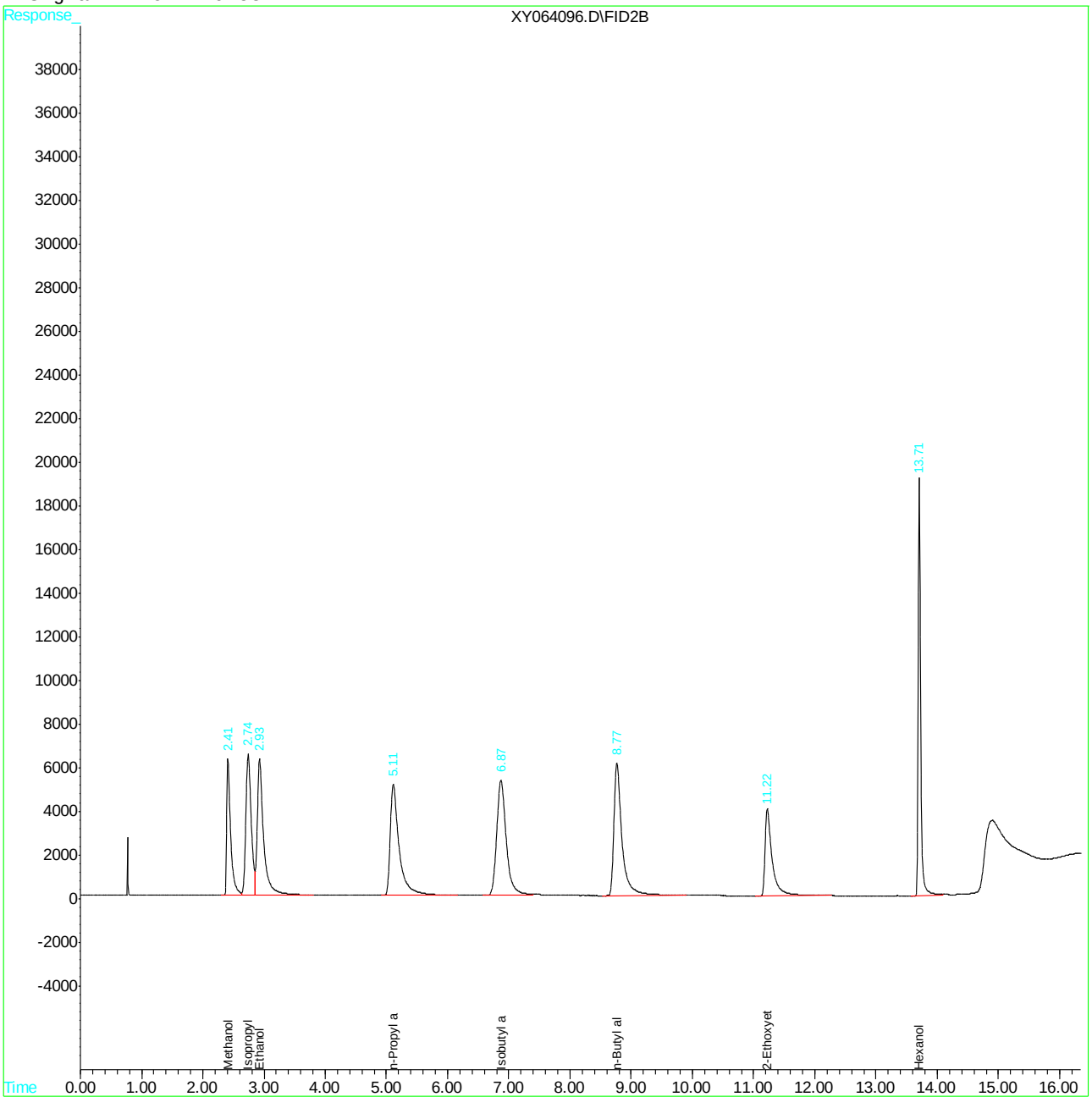
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064096.D D8015.M Tue May 03 09:18:10 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064096.D Vial: 16
Acq On : 2 May 2016 8:22 pm Operator: StevenH
Sample : jc19214-2amsd Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:43 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/03/16 10:59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064080.D Vial: 2
Acq On : 2 May 2016 2:18 pm Operator: StevenH
Sample : ic2772-1 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:33 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	10078	1.046 mg/L m
Spiked Amount 100.000 Range 57 - 142 Recovery = 1.05%#			
Target Compounds			
1) Methanol	2.48	5986	1.271 mg/L
2) Isopropyl alcohol	2.75	7749	1.205 mg/L
3) Ethanol	2.98	8501	1.141 mg/L
4) n-Propyl alcohol	5.16	9361	1.090 mg/L
5) Isobutyl alcohol	6.88	11067	1.116 mg/L
6) n-Butyl alcohol	8.77	9774	1.034 mg/L
7) 2-Ethoxyethanol	11.26	5432	1.041 mg/L

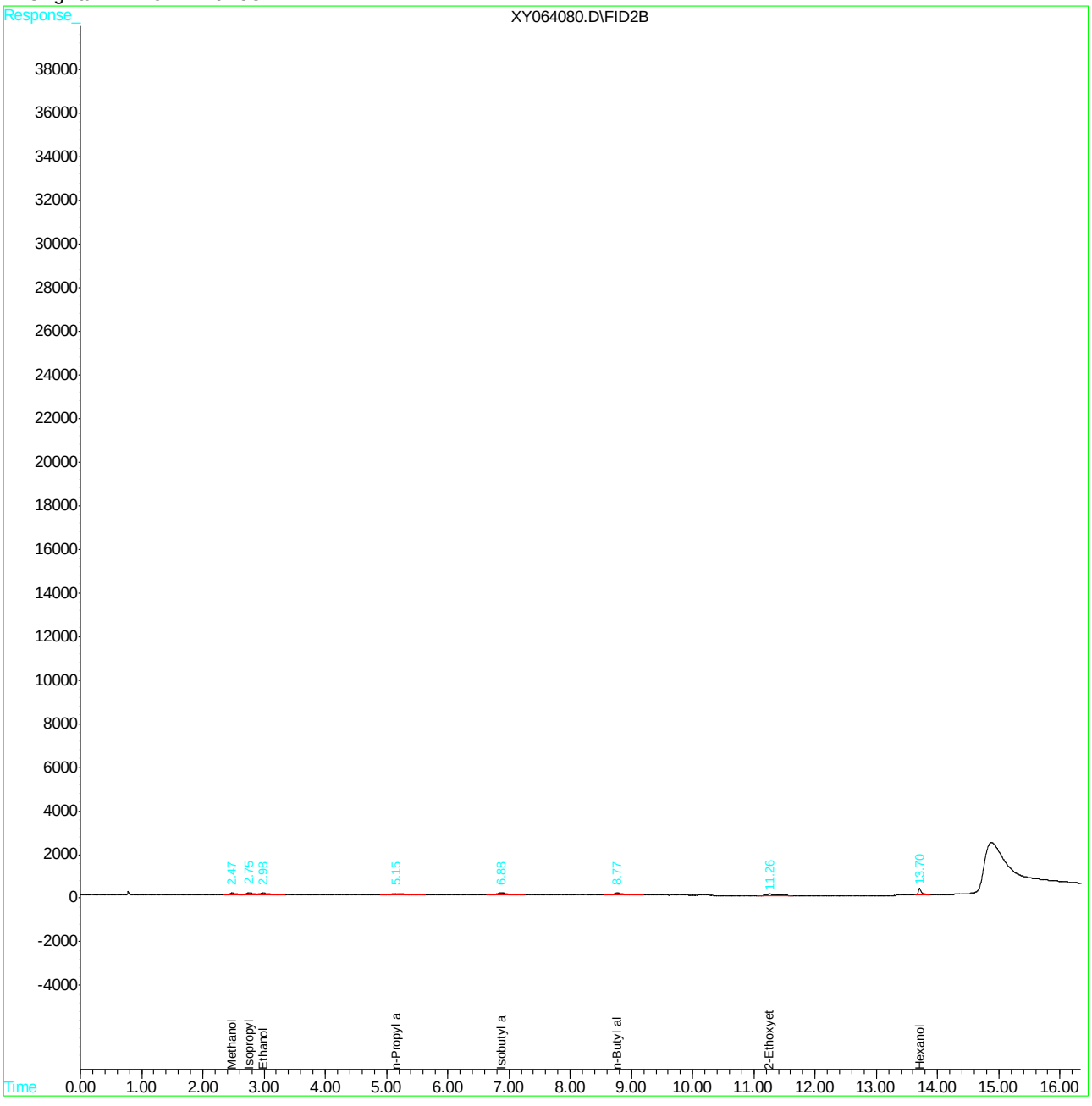
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064080.D Vial: 2
Acq On : 2 May 2016 2:18 pm Operator: StevenH
Sample : ic2772-1 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:33 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integration Approval Summary

Sample Number:	GXY2772-IC2772	**Method:**	SW846 8015C
Lab FileID:	XY064080.D	**Analyst approved:**	05/03/16 09:32 Steven Heller
Injection Time:	05/02/16 14:18	**Supervisor approved:**	05/03/16 10:59 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexanol	111-27-3	1	13.70	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/03/16 10:59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064081.D Vial: 3
Acq On : 2 May 2016 3:00 pm Operator: StevenH
Sample : ic2772-2 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	25058	2.601 mg/L m
Spiked Amount 100.000 Range 57 - 142 Recovery = 2.60%#			
Target Compounds			
1) Methanol	2.45	13880	2.947 mg/L
2) Isopropyl alcohol	2.74	18265	2.839 mg/L
3) Ethanol	2.96	21780	2.924 mg/L
4) n-Propyl alcohol	5.14	24540	2.859 mg/L
5) Isobutyl alcohol	6.86	28610	2.885 mg/L
6) n-Butyl alcohol	8.76	25253	2.671 mg/L
7) 2-Ethoxyethanol	11.24	13590	2.604 mg/L

12.5.2
12

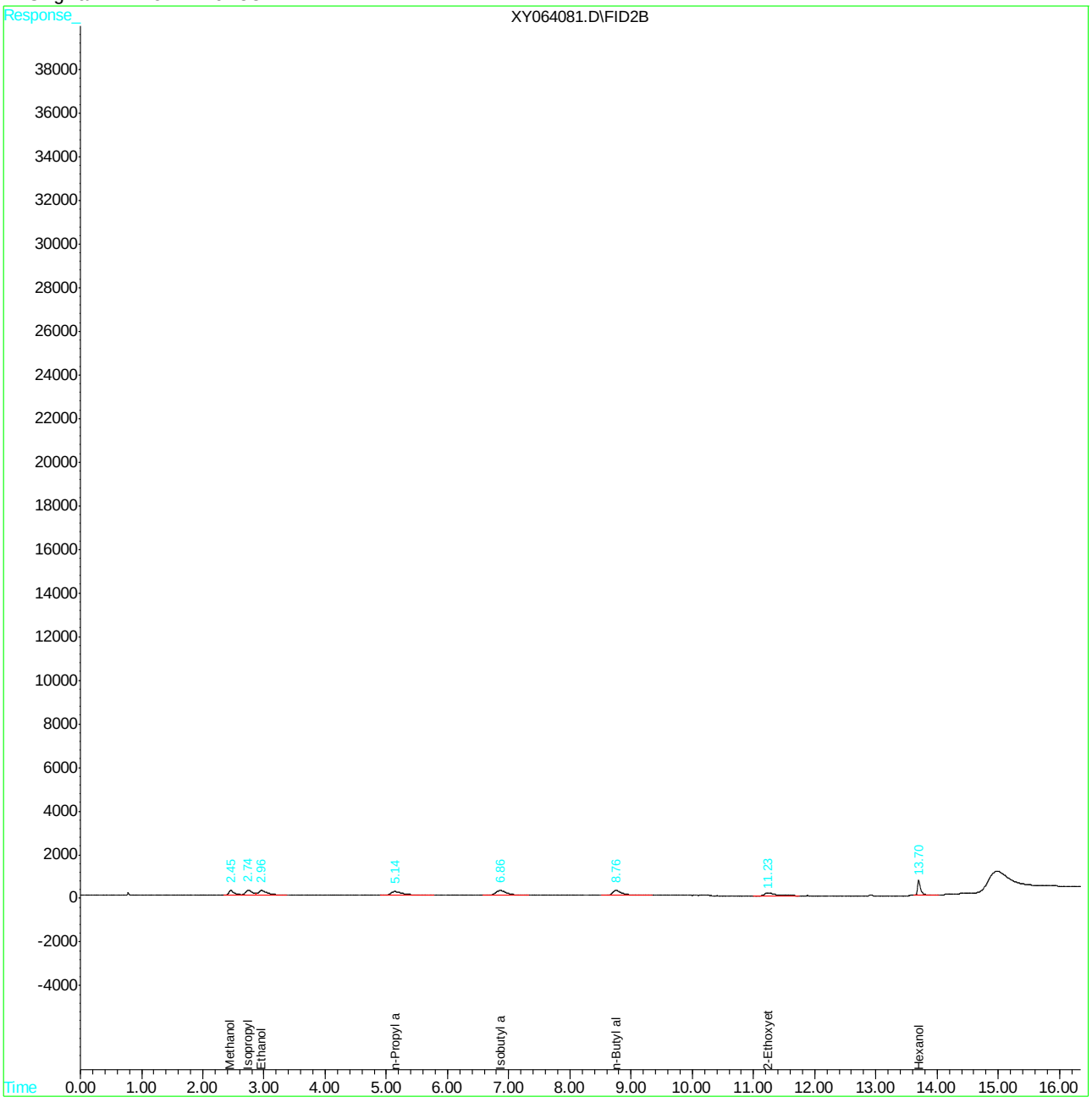
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064081.D D8015.M Tue May 03 07:44:29 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064081.D Vial: 3
Acq On : 2 May 2016 3:00 pm Operator: StevenH
Sample : ic2772-2 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integration Approval Summary

Sample Number:	GXY2772-IC2772	**Method:**	SW846 8015C
Lab FileID:	XY064081.D	**Analyst approved:**	05/03/16 09:32 Steven Heller
Injection Time:	05/02/16 15:00	**Supervisor approved:**	05/03/16 10:59 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexanol	111-27-3	1	13.70	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/03/16 10:59

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064082.D Vial: 4
Acq On : 2 May 2016 3:22 pm Operator: StevenH
Sample : ic2772-3 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	148444	15.407 mg/L m
Spiked Amount 100.000 Range 57 - 142 Recovery = 15.41%#			
Target Compounds			
1) Methanol	2.44	64258	13.643 mg/L
2) Isopropyl alcohol	2.75	84903	13.197 mg/L
3) Ethanol	2.96	110361	14.816 mg/L
4) n-Propyl alcohol	5.15	119484	13.918 mg/L
5) Isobutyl alcohol	6.87	134431	13.557 mg/L
6) n-Butyl alcohol	8.76	128626	13.605 mg/L
7) 2-Ethoxyethanol	11.23	71964	13.791 mg/L

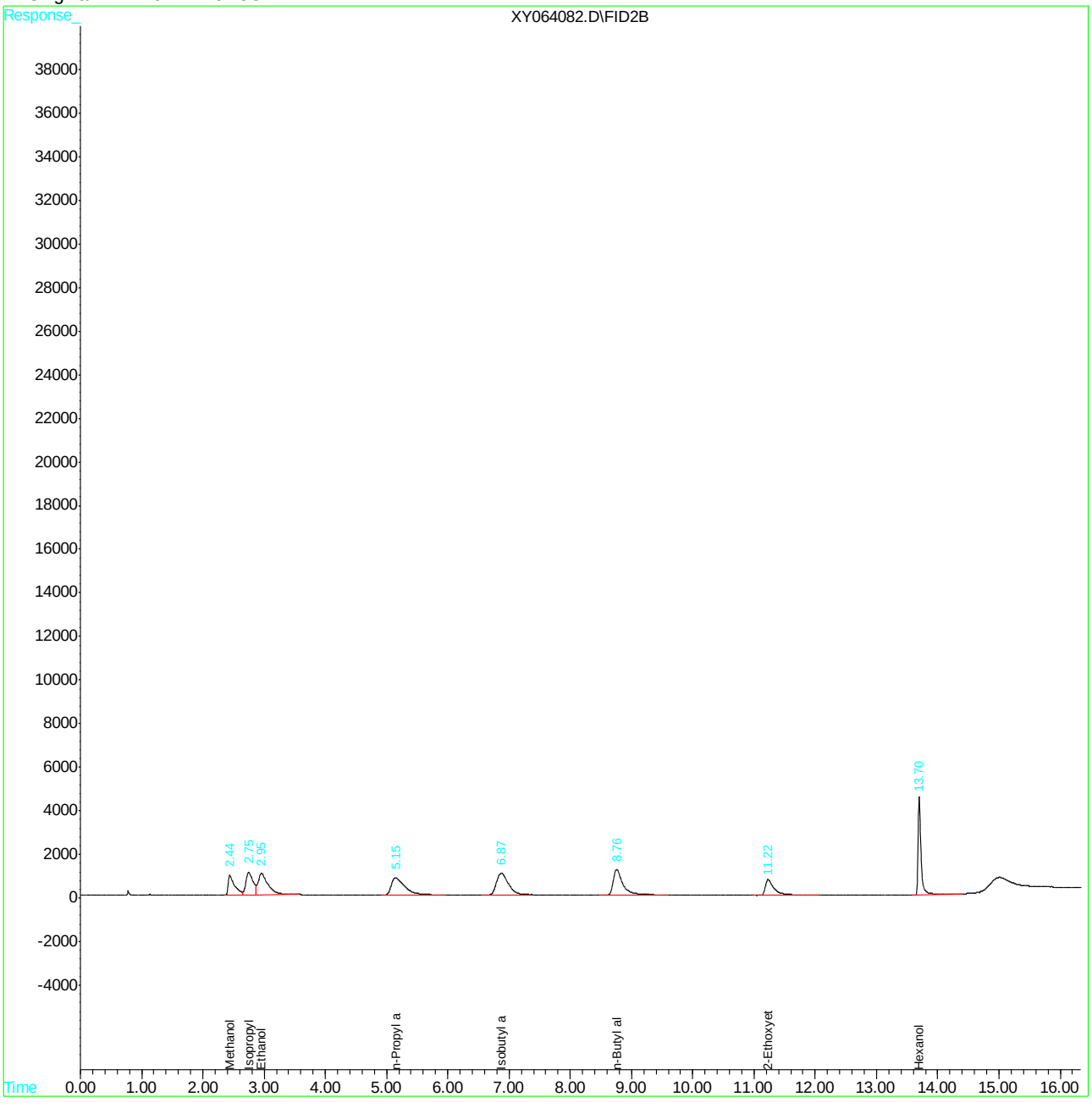
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064082.D D8015.M Tue May 03 07:44:31 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064082.D Vial: 4
Acq On : 2 May 2016 3:22 pm Operator: StevenH
Sample : ic2772-3 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:34 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Manual Integration Approval Summary

Sample Number:	GXY2772-IC2772	**Method:**	SW846 8015C
Lab FileID:	XY064082.D	**Analyst approved:**	05/03/16 09:32 Steven Heller
Injection Time:	05/02/16 15:22	**Supervisor approved:**	05/03/16 10:59 Melissa Mangual

Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexanol	111-27-3	1	13.70	Poor instrument integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064083.D Vial: 5
Acq On : 2 May 2016 3:43 pm Operator: StevenH
Sample : icc2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	528072	54.809 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 54.81%#			
Target Compounds			
1) Methanol	2.41	279952	59.438 mg/L
2) Isopropyl alcohol	2.74	373158	58.001 mg/L
3) Ethanol	2.92	473754	63.602 mg/L
4) n-Propyl alcohol	5.10	517797	60.316 mg/L
5) Isobutyl alcohol	6.86	592309	59.732 mg/L
6) n-Butyl alcohol	8.74	560425	59.278 mg/L
7) 2-Ethoxyethanol	11.21	312068	59.803 mg/L

12.5.4

12

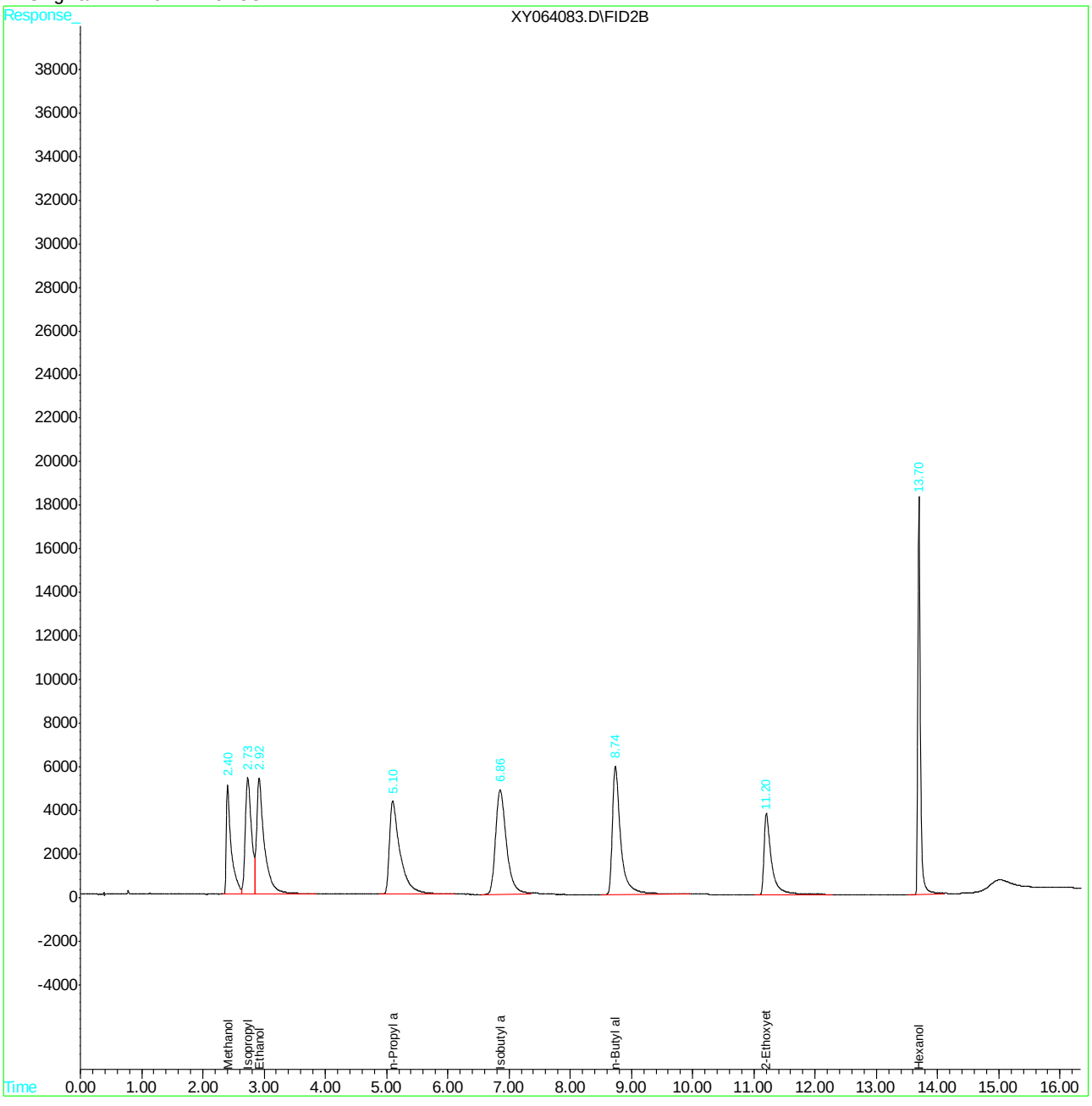
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064083.D D8015.M Tue May 03 07:44:32 2016

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064083.D Vial: 5
Acq On : 2 May 2016 3:43 pm Operator: StevenH
Sample : icc2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064084.D Vial: 6
Acq On : 2 May 2016 4:04 pm Operator: StevenH
Sample : ic2772-5 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.69	1290694	133.962 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 133.96%			
Target Compounds			
1) Methanol	2.40	656134	139.306 mg/L
2) Isopropyl alcohol	2.73	899899	139.875 mg/L
3) Ethanol	2.91	1082008	145.261 mg/L
4) n-Propyl alcohol	5.09	1219215	142.021 mg/L
5) Isobutyl alcohol	6.85	1396762	140.857 mg/L
6) n-Butyl alcohol	8.72	1323725	140.014 mg/L
7) 2-Ethoxyethanol	11.19	749665	143.660 mg/L

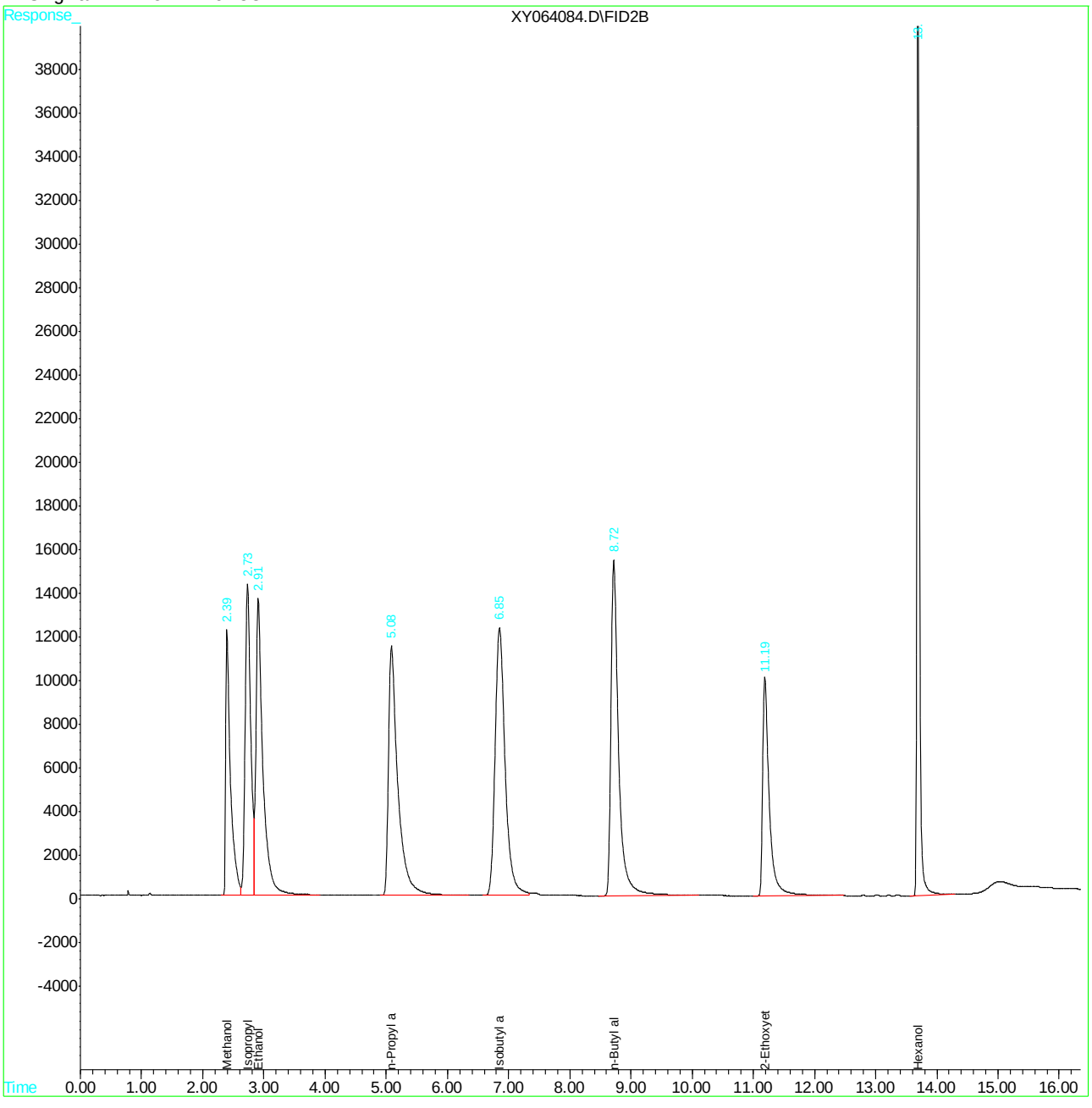
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064084.D Vial: 6
Acq On : 2 May 2016 4:04 pm Operator: StevenH
Sample : ic2772-5 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 16:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



SGS ACCUTEST JC19214

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064085.D Vial: 7
Acq On : 2 May 2016 4:26 pm Operator: StevenH
Sample : ic2772-6 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:35 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.69	2705536	280.810 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 280.81%#			
Target Compounds			
1) Methanol	2.38	1334044	283.235 mg/L
2) Isopropyl alcohol	2.72	1927228	299.557 mg/L
3) Ethanol	2.89	2142314	287.608 mg/L
4) n-Propyl alcohol	5.06	2489394	289.978 mg/L
5) Isobutyl alcohol	6.84	2900763	292.529 mg/L
6) n-Butyl alcohol	8.71	2737807	289.586 mg/L
7) 2-Ethoxyethanol	11.18	1513751	290.085 mg/L

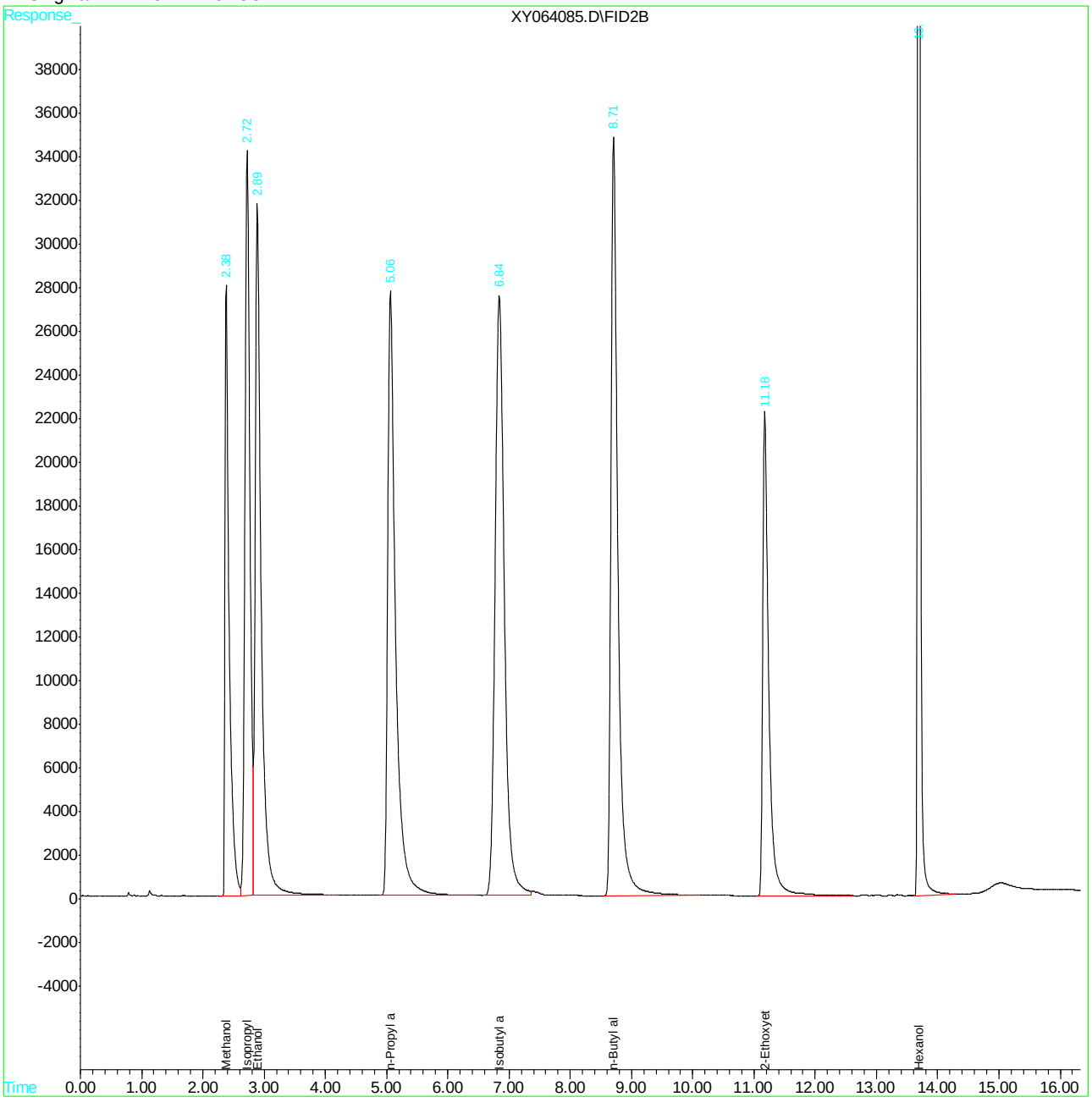
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064085.D D8015.M Tue May 03 07:44:35 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064085.D Vial: 7
Acq On : 2 May 2016 4:26 pm Operator: StevenH
Sample : ic2772-6 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:35 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064086.D Vial: 8
Acq On : 2 May 2016 4:47 pm Operator: StevenH
Sample : ic2772-7 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.69	5286903	548.733 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 548.73%#			
Target Compounds			
1) Methanol	2.37	2599968	552.007 mg/L
2) Isopropyl alcohol	2.72	3786367	588.530 mg/L
3) Ethanol	2.88	4110606	551.854 mg/L
4) n-Propyl alcohol	5.05	4856237	565.680 mg/L
5) Isobutyl alcohol	6.83	5680267	572.830 mg/L
6) n-Butyl alcohol	8.69	5343327	565.179 mg/L
7) 2-Ethoxyethanol	11.17	3011713	577.143 mg/L

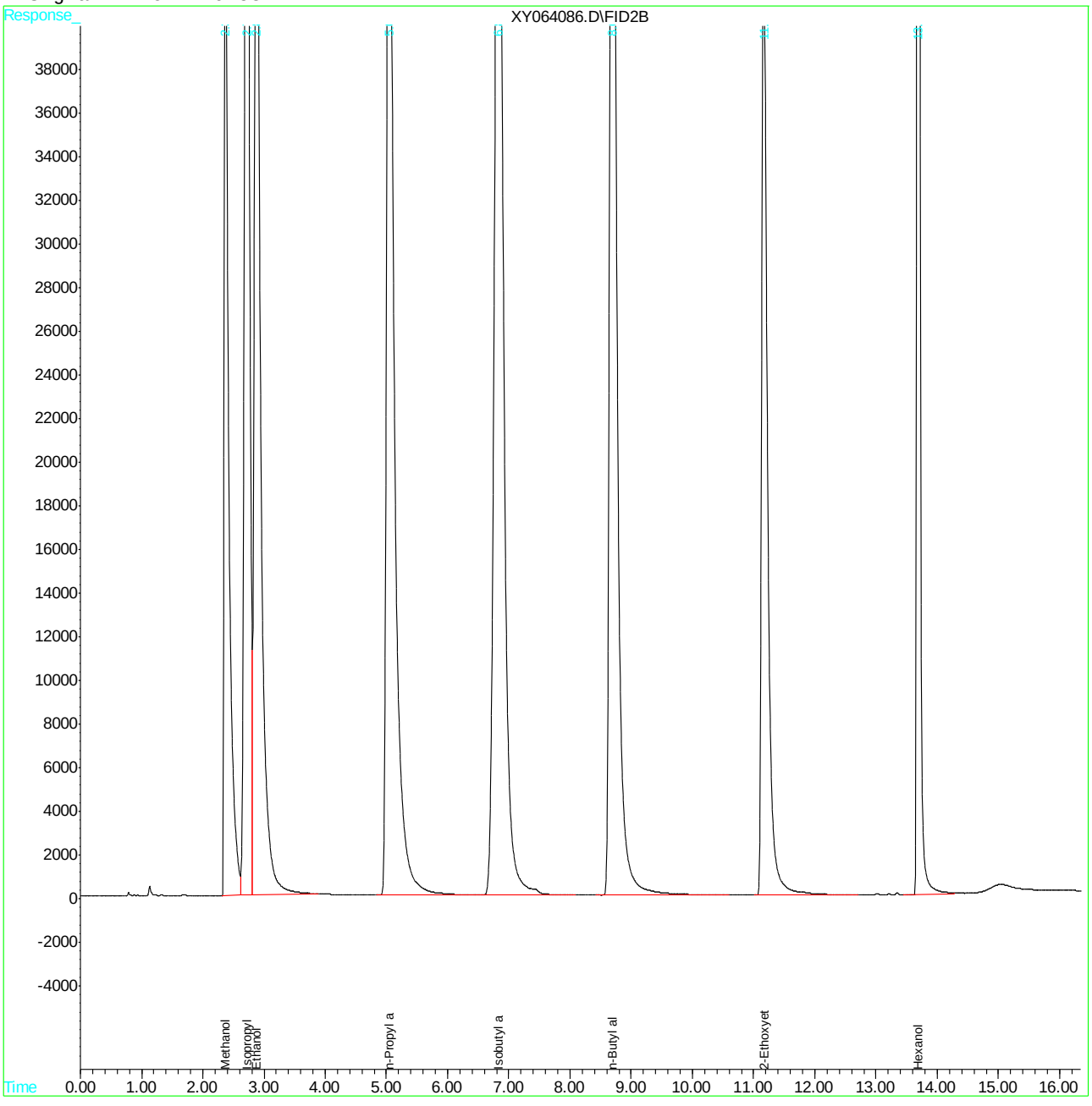
(f)=RT Delta > 1/2 Window (m)=manual int.
XY064086.D D8015.M Tue May 03 07:44:37 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064086.D Vial: 8
Acq On : 2 May 2016 4:47 pm Operator: StevenH
Sample : ic2772-7 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:36 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Mon May 02 14:56:53 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064088.D Vial: 10
Acq On : 2 May 2016 5:30 pm Operator: StevenH
Sample : icv2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.70	578268	109.019 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 109.02%			
Target Compounds			
1) Methanol	2.40	305082	112.212 mg/L
2) Isopropyl alcohol	2.74	424039	114.624 mg/L
3) Ethanol	2.92	492395	113.077 mg/L
4) n-Propyl alcohol	5.10	558137	114.047 mg/L
5) Isobutyl alcohol	6.87	616659	108.938 mg/L
6) n-Butyl alcohol	8.77	599559	114.044 mg/L
7) 2-Ethoxyethanol	11.22	339903	116.228 mg/L

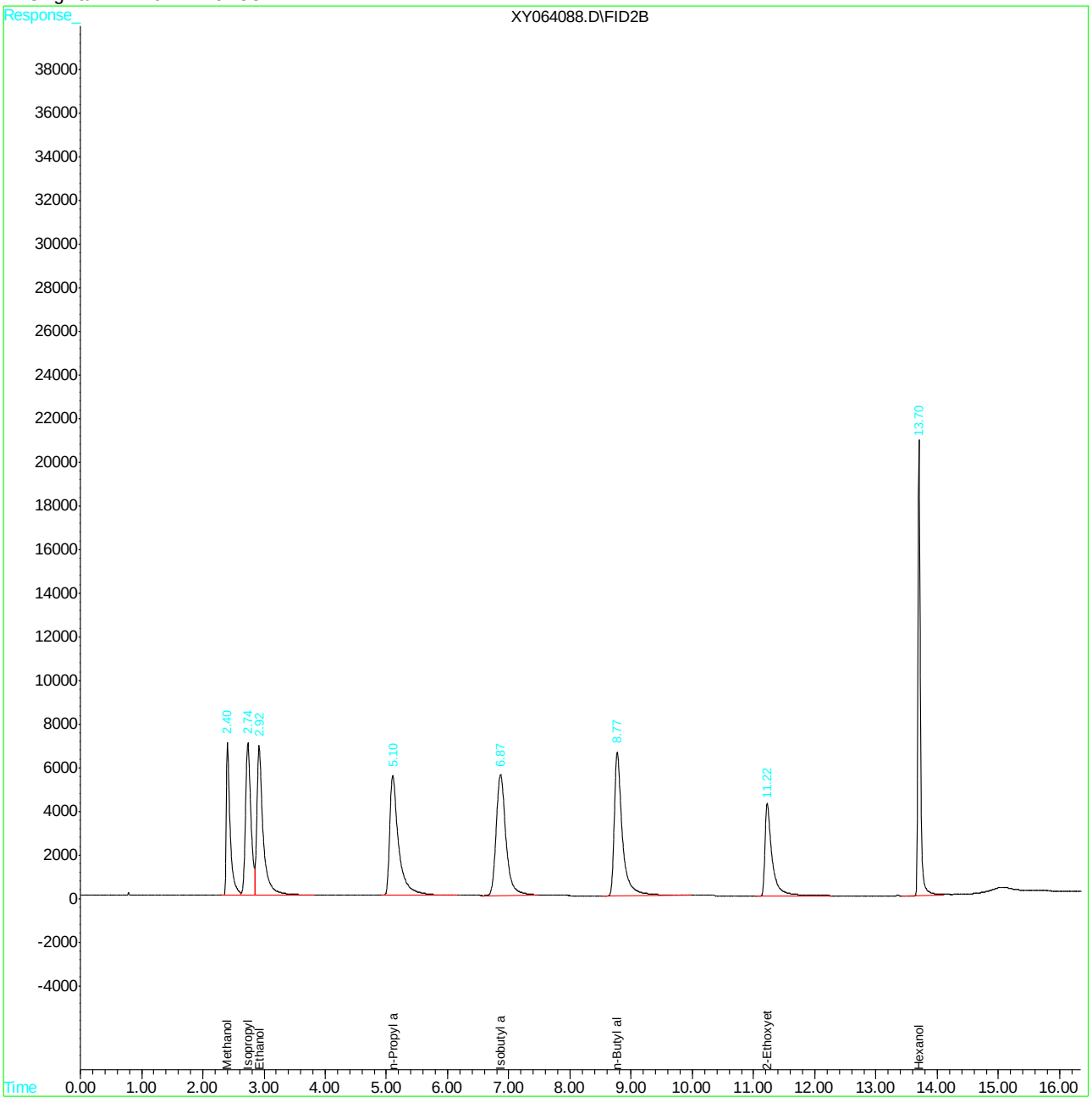
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064088.D Vial: 10
Acq On : 2 May 2016 5:30 pm Operator: StevenH
Sample : icv2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064089.D Vial: 5
Acq On : 2 May 2016 5:52 pm Operator: StevenH
Sample : cc2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.71	499644	94.196 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 94.20%			
Target Compounds			
1) Methanol	2.42	263927	97.075 mg/L
2) Isopropyl alcohol	2.75	357821	96.724 mg/L
3) Ethanol	2.94	440079	101.063 mg/L
4) n-Propyl alcohol	5.13	489072	99.934 mg/L
5) Isobutyl alcohol	6.88	559202	98.788 mg/L
6) n-Butyl alcohol	8.76	528366	100.502 mg/L
7) 2-Ethoxyethanol	11.22	298228	101.978 mg/L

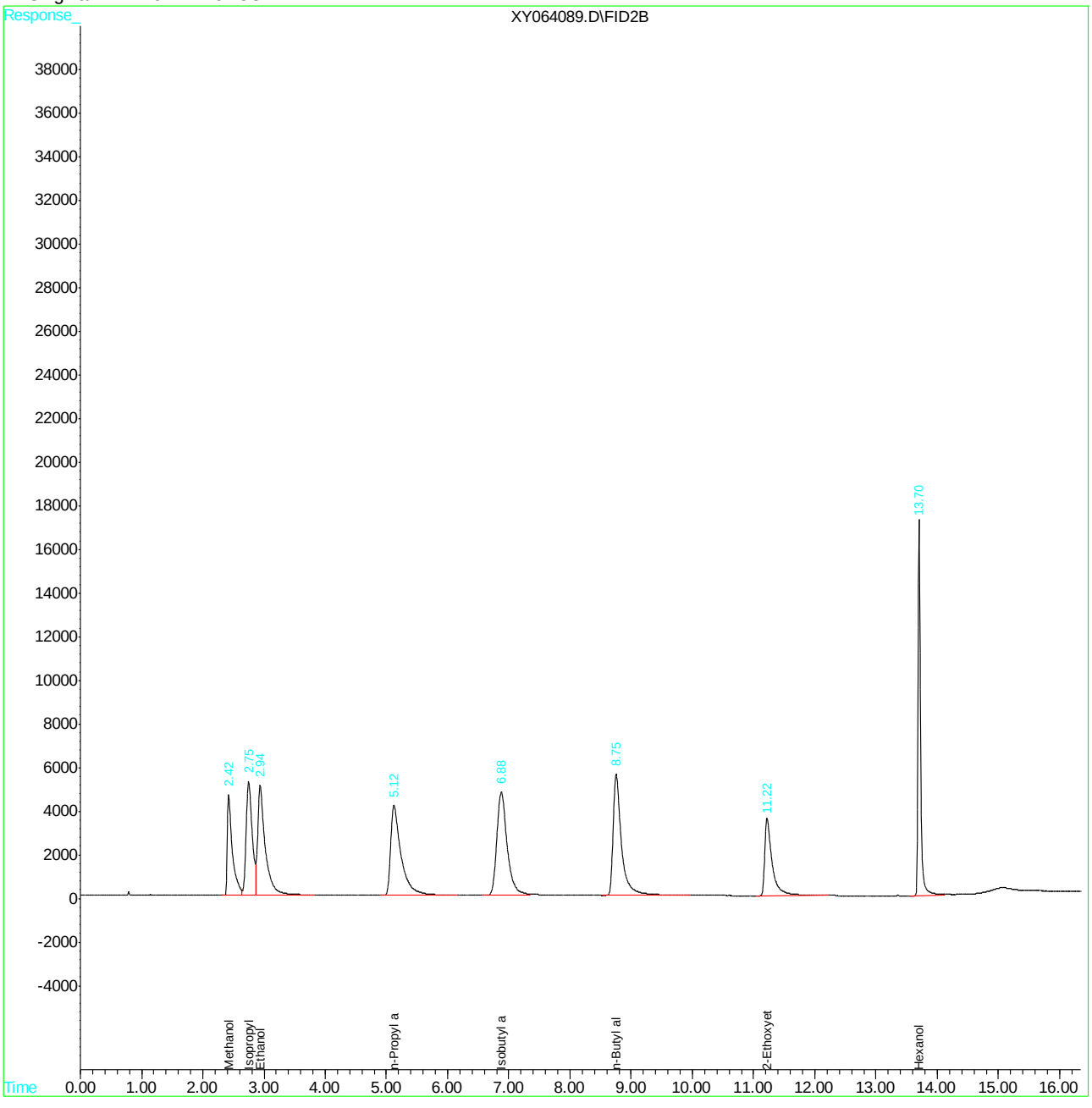
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064089.D Vial: 5
Acq On : 2 May 2016 5:52 pm Operator: StevenH
Sample : cc2772-4 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\2\DATA\050216\XY064097.D          Vial: 6
Acq On    :  2 May 2016   8:44 pm                   Operator: StevenH
Sample    : ecc2772-5                               Inst    : VOA5
Misc      : gc18771,gxy2772,,,,,                    Multiplr: 1.00
IntFile   : EVENTS.E
Quant Time: May  3  7:38 2016  Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title        : Alcohols by direct injection
Last Update  : Tue May 03 07:37:11 2016
Response via : Initial Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj.  : 1uL
Signal Phase : Stabilwax
Signal Info  : 0.53mm
```

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
8) S Hexanol	13.71	1345801	253.719 mg/L
Spiked Amount 100.000 Range 57 - 142 Recovery = 253.72%#			
Target Compounds			
1) Methanol	2.40	678309	249.489 mg/L
2) Isopropyl alcohol	2.74	953799	257.825 mg/L
3) Ethanol	2.91	1115352	256.137 mg/L
4) n-Propyl alcohol	5.09	1271590	259.830 mg/L
5) Isobutyl alcohol	6.87	1463667	258.569 mg/L
6) n-Butyl alcohol	8.74	1385642	263.567 mg/L
7) 2-Ethoxyethanol	11.21	756500	258.681 mg/L

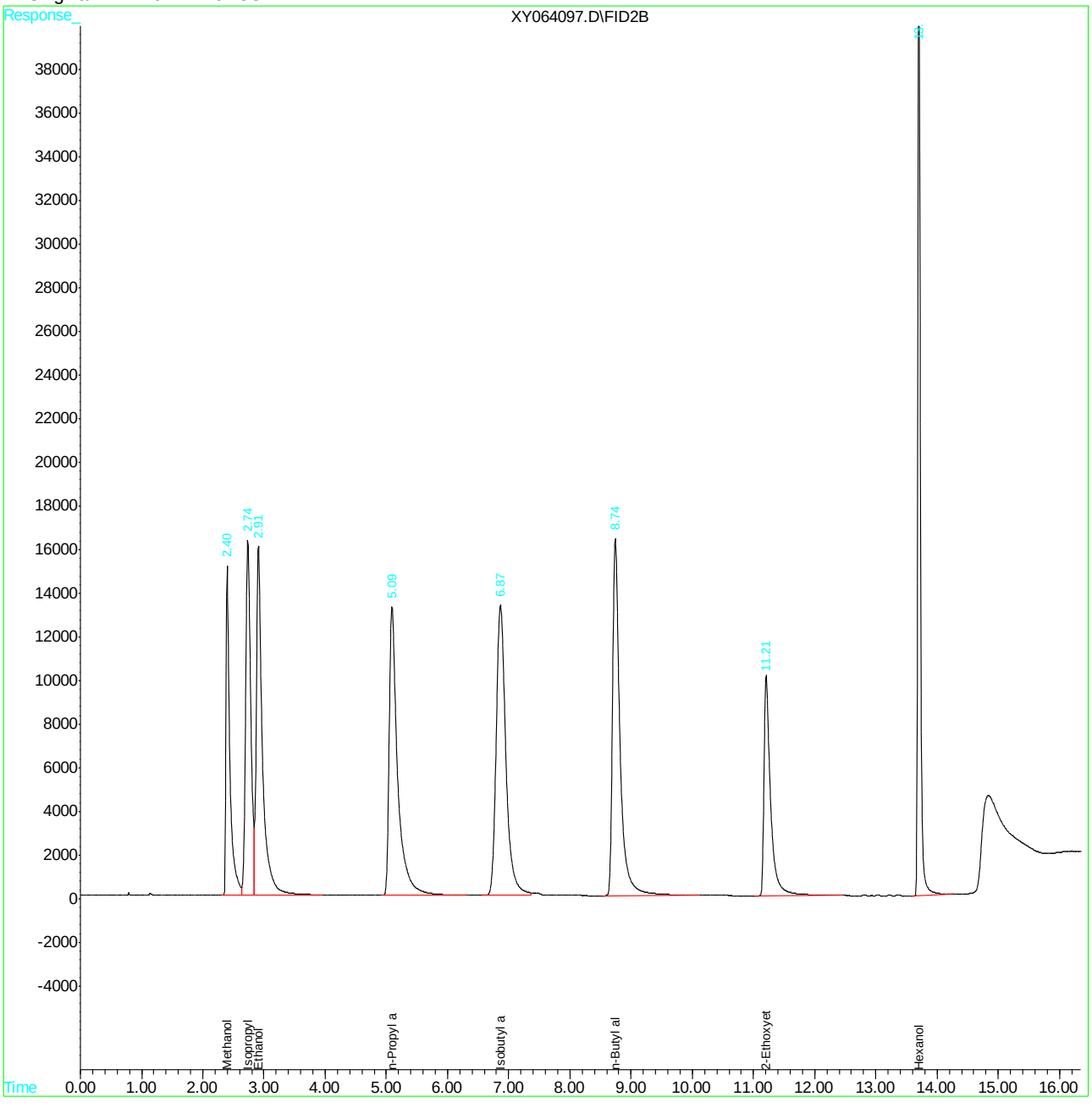
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\050216\XY064097.D Vial: 6
Acq On : 2 May 2016 8:44 pm Operator: StevenH
Sample : ecc2772-5 Inst : VOA5
Misc : gc18771,gxy2772,,,,, Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 3 7:38 2016 Quant Results File: D8015.RES

Quant Method : C:\HPCHEM\2\METHODS\D8015.M (Chemstation Integrator)
Title : Alcohols by direct injection
Last Update : Tue May 03 07:37:11 2016
Response via : Multiple Level Calibration
DataAcq Meth : DAI-WAX.M

Volume Inj. : 1uL
Signal Phase : Stabilwax
Signal Info : 0.53mm



XY064097.D D8015.M Tue May 03 09:18:12 2016 Page 2

ACCUTEST LABORATORIES SF

DATE:	5/2/16
COLUMN TYPE:	Stabil WAX
DETECTOR:	FID
INSTRUMENT:	VOA5-XY
ANALYST:	SH

1-12 pH LOT 200814
0-3 pH LOT 204413A

GC VOA5-XY ANALYSIS LOG

METHODS:	Alcohols
METHOD FILE:	8015 / DAI WAX
CALIB. DATE:	5/2/16
RUN ID:	GXY 2772

STANDARDS

ICAL/CCV:	V20132
ISTD/SURR:	V19752
ICV/QC:	7896A
AMBIENT TEMP.:	NA
THERM ID:	↓

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	SAMPLE AMT.	FINAL VOL.	ALS POSITION	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	RR	COMMENTS
XY 0640 71	CC 2728-4	NA	W	1.0	1ml	1		NA	✓	✓ 100ml + 900ml STDS 7 + 6
XY 72	4					1			✓	✓ NEW LINER
XY 73	4					1			✓	✓
XY 74	4					1			✓	✓ SH 5/2/16
XY 75	4					1			✓	✓ new ~~syringe~~ syringe
XY 76	4					1			✓	✓ STD's Bottle
XY 77	4					1			✓	✓
XY 78	4					1			✓	✓
XY 79	4					1			✓	✓
XY 80	IC2772-1					2	8 PII			2ul + 998ul ✓
XY 81	2					3	8 PII			5ul + 995ul ✓
XY 82	3					4	8 PII			25ul + 975ul ✓
XY 83	4					5				100ul + 900ul ✓
XY 84	5					6				250ul + 750ul ✓
XY 85	6					7				450ul + 250ul ✓
XY 86	7					8				stock ✓
XY 87	Blank					9				SH 5/2/16 ✓
XY 88	IC2772-4					10				~~100~~ 10ul - 1ml ✓
XY 89	CC2772-4				SH 5/2/16	~~X5~~				100ul + 900ul ✓
XY 90	BS					11				10ul - 1ml ✓
XY 91	MB	↓				12		↓		✓
XY 92	JC19023-3	1				13		1		✓
XY 93	JC19214-1A	1				14		1		✓
XY 94	2A	1				15		1		✓
XY 95	2A MS	1				16		1		10ul - 1ml ✓
XY 96	2A MSD	1				16		1		↓ ✓
XY 97	ECC2772-5	NA	↓	↓	↓	~~X6~~ SH 5/2/16		NA		250ul + 750ul ✓

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: SH

gcvoa5_xy_log.xls NF 08/15