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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

SGS Accutest Job Number: JC21229

Sampling Date: 05/27/16

Report to:

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Total number of pages in report: **1289**

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

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC21229

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC21229-1	05/27/16	10:30	TT	05/28/16	SO	Soil	SB102 (5.5-6.5)
JC21229-2	05/27/16	10:55	TT	05/28/16	SO	Soil	SB102 (7-8)
JC21229-3	05/27/16	12:40	TT	05/28/16	AQ	Ground Water	SB102-GWD
JC21229-4	05/27/16	14:00	TT	05/28/16	AQ	Equipment Blank	BPEB-30

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC21229
Site:	BMSMC, Building 5 Area, PR	**Report Date**	6/13/2016 5:14:02 PM

On 05/28/2016, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 5.6 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC21229 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:** OP94328

- All samples were extracted within the recommended method holding time.
- Sample(s) JC20992-1MS, JC20992-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 3,3'-Dichlorobenzidine are outside in house control limits for sample OP94328-MSD.

Matrix: SO **Batch ID:** OP94419

- All samples were extracted within the recommended method holding time.
- Sample(s) JC21230-2MS, JC21230-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 3-Nitroaniline are outside of in house control limits for sample OP94419-MSD.
- JC21229-2: Elevated detection limit due to low volume of bad matrix sample extracted.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP94328A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC20992-2MS, JC20992-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,4-Dioxane, Naphthalene are outside control limits for sample OP94328A-MSD. Analytical precision exceeds in-house control limits.
- OP94328A-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.
- OP94328A-MSD for 2-Fluorobiphenyl: Outside control limits due to matrix interference.

Matrix: SO **Batch ID:** OP94419A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21229-1MS, JC21229-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,4-Dioxane are outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside of in house control limits.
- JC21229-2: Elevated detection limit due to low volume of bad matrix sample extracted.
- JC21229-1 for 1,4-Dioxane: Not accredited for this compound at the time of analysis, but all method requirements were followed.

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

Matrix: AQ **Batch ID:** GGH5307

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC21060-1MS, JC21060-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** GGH5308

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21229-2MS, JC21229-2MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP94349

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP94349-MB1 for Decachlorobiphenyl: Outside the QC limits.
- OP94349-BS1 for Decachlorobiphenyl: Outside the QC limits.
- OP94349-BS1 for Endosulfan sulfate: Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.
- OP94349-BSD for Aldrin: Analytical precision exceeds in-house control limits.

Matrix: AQ **Batch ID:** OP94431

- All samples were extracted within the recommended method holding time.
- Sample(s) JC21347-3MS, JC21347-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JC21229-3: Confirmation run.

Matrix: SO **Batch ID:** OP94393

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC21223-27MS, JC21223-27MSD were used as the QC samples indicated.
- OP94393-BS1 for Methoxychlor: Reported from 1st signal. %D of check on 2nd signal exceed method criteria (20%) so using for confirmation only.
- OP94393-BS1 for 4,4'-DDT: Reported from 1st signal. %D of check on 2nd signal exceed method criteria (20%) so using for confirmation only.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN46863

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

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

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

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

Summary of Hits

Job Number: JC21229
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 05/27/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC21229-1	**SB102 (5.5-6.5)**					
Benzo(a)anthracene		17.2 J	42	12	ug/kg	SW846 8270D
Fluoranthene		48.5	42	19	ug/kg	SW846 8270D
Phenanthrene		27.0 J	42	14	ug/kg	SW846 8270D
Pyrene		40.0 J	42	13	ug/kg	SW846 8270D
JC21229-2	**SB102 (7-8)**					
Benzo(a)anthracene [a]		92.5	77	22	ug/kg	SW846 8270D
Benzo(a)pyrene [a]		51.5 J	77	35	ug/kg	SW846 8270D
Benzo(b)fluoranthene [a]		64.5 J	77	34	ug/kg	SW846 8270D
Chrysene [a]		41.2 J	77	24	ug/kg	SW846 8270D
Pyrene [a]		71.7 J	77	25	ug/kg	SW846 8270D
JC21229-3	**SB102-GWD**					
1,4-Dioxane		0.690	0.10	0.049	ug/l	SW846 8270D BY SIM
JC21229-4	**BPEB-30**					

No hits reported in this sample.

(a) Elevated detection limit due to low volume of bad matrix sample extracted.

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	SB102 (5.5-6.5)		
Lab Sample ID:	JC21229-1	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P26712.D	1	06/06/16	AC	06/02/16	OP94419	E6P1239
Run #2							

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

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	84	21	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	26	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	74	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	210	160	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	210	45	ug/kg	
95-48-7	2-Methylphenol	ND	84	27	ug/kg	
	3&4-Methylphenol	ND	84	34	ug/kg	
88-75-5	2-Nitrophenol	ND	210	28	ug/kg	
100-02-7	4-Nitrophenol	ND	420	110	ug/kg	
87-86-5	Pentachlorophenol	ND	210	39	ug/kg	
108-95-2	Phenol	ND	84	22	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	28	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	31	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	25	ug/kg	
83-32-9	Acenaphthene	ND	42	14	ug/kg	
208-96-8	Acenaphthylene	ND	42	21	ug/kg	
98-86-2	Acetophenone	ND	210	9.0	ug/kg	
120-12-7	Anthracene	ND	42	26	ug/kg	
1912-24-9	Atrazine	ND	84	18	ug/kg	
56-55-3	Benzo(a)anthracene	17.2	42	12	ug/kg	J
50-32-8	Benzo(a)pyrene	ND	42	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	42	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	42	21	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	42	20	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	84	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	84	10	ug/kg	
92-52-4	1,1'-Biphenyl	ND	84	5.7	ug/kg	
100-52-7	Benzaldehyde	ND	210	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	84	10	ug/kg	
106-47-8	4-Chloroaniline	ND	210	15	ug/kg	
86-74-8	Carbazole	ND	84	6.1	ug/kg	

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:	SB102 (5.5-6.5)		
Lab Sample ID:	JC21229-1	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	84	17	ug/kg	
218-01-9	Chrysene	ND	42	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	84	9.0	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	84	18	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	84	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	84	14	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	42	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	42	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	84	35	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	42	18	ug/kg	
132-64-9	Dibenzofuran	ND	84	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	84	6.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	84	10	ug/kg	
84-66-2	Diethyl phthalate	ND	84	8.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	84	7.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	84	9.8	ug/kg	
206-44-0	Fluoranthene	48.5	42	19	ug/kg	
86-73-7	Fluorene	ND	42	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	84	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	42	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	420	17	ug/kg	
67-72-1	Hexachloroethane	ND	210	21	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	42	20	ug/kg	
78-59-1	Isophorone	ND	84	9.0	ug/kg	
90-12-0	1-Methylnaphthalene	ND	84	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	ND	84	9.5	ug/kg	
88-74-4	2-Nitroaniline	ND	210	9.9	ug/kg	
99-09-2	3-Nitroaniline	ND	210	10	ug/kg	
100-01-6	4-Nitroaniline	ND	210	11	ug/kg	
98-95-3	Nitrobenzene	ND	84	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	84	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	15	ug/kg	
85-01-8	Phenanthrene	27.0	42	14	ug/kg	J
129-00-0	Pyrene	40.0	42	13	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		30-106%
4165-62-2	Phenol-d5	69%		30-106%

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

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

Report of Analysis

Client Sample ID:	SB102 (5.5-6.5)		
Lab Sample ID:	JC21229-1	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	68%		24-140%
4165-60-0	Nitrobenzene-d5	79%		26-122%
321-60-8	2-Fluorobiphenyl	85%		36-112%
1718-51-0	Terphenyl-d14	90%		36-132%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	SB102 (5.5-6.5)		
Lab Sample ID:	JC21229-1	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62168.D	1	06/11/16	JJ	06/02/16	OP94419A	E3M2930
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane [a]	ND	4.2	0.84	ug/kg	
91-20-3	Naphthalene	ND	4.2	0.51	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		15-138%
321-60-8	2-Fluorobiphenyl	89%		12-148%
1718-51-0	Terphenyl-d14	98%		10-157%

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

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	SB102 (5.5-6.5)		
Lab Sample ID:	JC21229-1	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105335.D	1	06/02/16	XPL	n/a	n/a	GGH5308
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	120	86	ug/kg	
78-83-1	Isobutyl Alcohol	ND	120	73	ug/kg	
67-63-0	Isopropyl Alcohol	ND	120	71	ug/kg	
71-23-8	n-Propyl Alcohol	ND	120	50	ug/kg	
71-36-3	n-Butyl Alcohol	ND	120	68	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	120	66	ug/kg	
67-56-1	Methanol	ND	250	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	88%		52-141%
111-27-3	Hexanol	85%		52-141%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	SB102 (5.5-6.5)		
Lab Sample ID:	JC21229-1	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8081B SW846 3546	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G68955.D	1	06/07/16	KD	06/01/16	OP94393	G4G1813
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.84	0.75	ug/kg	
319-84-6	alpha-BHC	ND	0.84	0.56	ug/kg	
319-85-7	beta-BHC	ND	0.84	0.52	ug/kg	
319-86-8	delta-BHC	ND	0.84	0.33	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.84	0.38	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.84	0.45	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.84	0.64	ug/kg	
60-57-1	Dieldrin	ND	0.84	0.66	ug/kg	
72-54-8	4,4'-DDD	ND	0.84	0.31	ug/kg	
72-55-9	4,4'-DDE	ND	0.84	0.28	ug/kg	
50-29-3	4,4'-DDT	ND	0.84	0.32	ug/kg	
72-20-8	Endrin	ND	0.84	0.30	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.84	0.48	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.84	0.63	ug/kg	
959-98-8	Endosulfan-I	ND	0.84	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.84	0.80	ug/kg	
76-44-8	Heptachlor	ND	0.84	0.69	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.84	0.35	ug/kg	
72-43-5	Methoxychlor	ND	1.7	0.47	ug/kg	
53494-70-5	Endrin ketone	ND	0.84	0.44	ug/kg	
8001-35-2	Toxaphene	ND	21	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		24-136%
877-09-8	Tetrachloro-m-xylene	75%		24-136%
2051-24-3	Decachlorobiphenyl	84%		10-153%
2051-24-3	Decachlorobiphenyl	74%		10-153%

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:	SB102 (7-8)		
Lab Sample ID:	JC21229-2	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.2
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	6P26713.D	1	06/06/16	AC	06/02/16	OP94419	E6P1239
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	150	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	47	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	66	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	380	140	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	380	290	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	380	82	ug/kg	
95-48-7	2-Methylphenol	ND	150	49	ug/kg	
	3&4-Methylphenol	ND	150	63	ug/kg	
88-75-5	2-Nitrophenol	ND	380	51	ug/kg	
100-02-7	4-Nitrophenol	ND	770	210	ug/kg	
87-86-5	Pentachlorophenol	ND	380	72	ug/kg	
108-95-2	Phenol	ND	150	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	380	51	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	58	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	46	ug/kg	
83-32-9	Acenaphthene	ND	77	27	ug/kg	
208-96-8	Acenaphthylene	ND	77	39	ug/kg	
98-86-2	Acetophenone	ND	380	17	ug/kg	
120-12-7	Anthracene	ND	77	47	ug/kg	
1912-24-9	Atrazine	ND	150	33	ug/kg	
56-55-3	Benzo(a)anthracene	92.5	77	22	ug/kg	
50-32-8	Benzo(a)pyrene	51.5	77	35	ug/kg	J
205-99-2	Benzo(b)fluoranthene	64.5	77	34	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	77	38	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	77	36	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	150	30	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	150	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	150	11	ug/kg	
100-52-7	Benzaldehyde	ND	380	19	ug/kg	
91-58-7	2-Chloronaphthalene	ND	150	18	ug/kg	
106-47-8	4-Chloroaniline	ND	380	28	ug/kg	
86-74-8	Carbazole	ND	150	11	ug/kg	

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:	SB102 (7-8)		
Lab Sample ID:	JC21229-2	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.2
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	150	30	ug/kg	
218-01-9	Chrysene	41.2	77	24	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	150	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	150	33	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	150	28	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	150	25	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	77	24	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	77	39	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	150	64	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	77	34	ug/kg	
132-64-9	Dibenzofuran	ND	150	31	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	150	13	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	150	19	ug/kg	
84-66-2	Diethyl phthalate	ND	150	16	ug/kg	
131-11-3	Dimethyl phthalate	ND	150	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	150	18	ug/kg	
206-44-0	Fluoranthene	ND	77	34	ug/kg	
86-73-7	Fluorene	ND	77	35	ug/kg	
118-74-1	Hexachlorobenzene	ND	150	19	ug/kg	
87-68-3	Hexachlorobutadiene	ND	77	31	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	770	31	ug/kg	
67-72-1	Hexachloroethane	ND	380	38	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	77	36	ug/kg	
78-59-1	Isophorone	ND	150	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	150	15	ug/kg	
91-57-6	2-Methylnaphthalene	ND	150	17	ug/kg	
88-74-4	2-Nitroaniline	ND	380	18	ug/kg	
99-09-2	3-Nitroaniline	ND	380	19	ug/kg	
100-01-6	4-Nitroaniline	ND	380	20	ug/kg	
98-95-3	Nitrobenzene	ND	150	30	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	150	22	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	380	28	ug/kg	
85-01-8	Phenanthrene	ND	77	26	ug/kg	
129-00-0	Pyrene	71.7	77	25	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	380	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		30-106%
4165-62-2	Phenol-d5	64%		30-106%

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

Report of Analysis

Client Sample ID:	SB102 (7-8)		
Lab Sample ID:	JC21229-2	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D SW846 3546	**Percent Solids:**	86.2
Project:	BMSMC, Building 5 Area, PR		

ABN TCL Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62%		24-140%
4165-60-0	Nitrobenzene-d5	76%		26-122%
321-60-8	2-Fluorobiphenyl	81%		36-112%
1718-51-0	Terphenyl-d14	83%		36-132%

(a) Elevated detection limit due to low volume of bad matrix sample extracted.

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:	SB102 (7-8)		
Lab Sample ID:	JC21229-2	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8270D BY SIM SW846 3546	**Percent Solids:**	86.2
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4P16864.D	1	06/13/16	LK	06/02/16	OP94419A	E4P896
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	7.7	1.5	ug/kg	
91-20-3	Naphthalene	ND	7.7	0.94	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		15-138%
321-60-8	2-Fluorobiphenyl	87%		12-148%
1718-51-0	Terphenyl-d14	82%		10-157%

(a) Elevated detection limit due to low volume of bad matrix sample extracted.

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:	SB102 (7-8)		
Lab Sample ID:	JC21229-2	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	86.2
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105332.D	1	06/02/16	XPL	n/a	n/a	GGH5308
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

Low Molecular Alcohol List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	120	80	ug/kg	
78-83-1	Isobutyl Alcohol	ND	120	68	ug/kg	
67-63-0	Isopropyl Alcohol	ND	120	66	ug/kg	
71-23-8	n-Propyl Alcohol	ND	120	47	ug/kg	
71-36-3	n-Butyl Alcohol	ND	120	63	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	120	62	ug/kg	
67-56-1	Methanol	ND	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	87%		52-141%
111-27-3	Hexanol	97%		52-141%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	SB102 (7-8)		
Lab Sample ID:	JC21229-2	**Date Sampled:**	05/27/16
Matrix:	SO - Soil	**Date Received:**	05/28/16
Method:	SW846 8081B SW846 3546	**Percent Solids:**	86.2
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4G68956.D	1	06/07/16	KD	06/01/16	OP94393	G4G1813
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.66	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.49	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.29	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.74	0.39	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.74	0.56	ug/kg	
60-57-1	Dieldrin	ND	0.74	0.58	ug/kg	
72-54-8	4,4'-DDD	ND	0.74	0.27	ug/kg	
72-55-9	4,4'-DDE	ND	0.74	0.25	ug/kg	
50-29-3	4,4'-DDT	ND	0.74	0.28	ug/kg	
72-20-8	Endrin	ND	0.74	0.26	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.42	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.55	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	0.24	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.70	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	0.31	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.41	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.39	ug/kg	
8001-35-2	Toxaphene	ND	18	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		24-136%
877-09-8	Tetrachloro-m-xylene	78%		24-136%
2051-24-3	Decachlorobiphenyl	98%		10-153%
2051-24-3	Decachlorobiphenyl	89%		10-153%

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

SGS Accutest

Report of Analysis

Client Sample ID:	SB102-GWD		
Lab Sample ID:	JC21229-3	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	05/28/16
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	6P26494.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
Run #2							

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

ABN TCL Special List

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

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB102-GWD		
Lab Sample ID:	JC21229-3	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	05/28/16
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	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	26%		14-88%
4165-62-2	Phenol-d5	22%		10-110%

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

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

Report of Analysis

Client Sample ID:	SB102-GWD		
Lab Sample ID:	JC21229-3	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	05/28/16
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
118-79-6	2,4,6-Tribromophenol	66%		39-149%
4165-60-0	Nitrobenzene-d5	71%		32-128%
321-60-8	2-Fluorobiphenyl	72%		35-119%
1718-51-0	Terphenyl-d14	71%		10-126%

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:	SB102-GWD		
Lab Sample ID:	JC21229-3	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	05/28/16
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	3M61859.D	1	06/02/16	JJ	05/29/16	OP94328A	E3M2915
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	0.690	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		24-125%
321-60-8	2-Fluorobiphenyl	76%		19-127%
1718-51-0	Terphenyl-d14	74%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	SB102-GWD		
Lab Sample ID:	JC21229-3	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	05/28/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105308.D	1	06/01/16	XPL	n/a	n/a	GGH5307
Run #2							

Low Molecular Alcohol List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	69%		56-145%
111-27-3	Hexanol	71%		56-145%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	SB102-GWD		
Lab Sample ID:	JC21229-3	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	05/28/16
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	1G123741.D	1	06/01/16	KD	05/29/16	OP94349	G1G4001
Run #2 [a]	1G123821.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2	920 ml	10.0 ml

Pesticide TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	117%	91%	26-132%
877-09-8	Tetrachloro-m-xylene	117%	88%	26-132%
2051-24-3	Decachlorobiphenyl	69%	46%	10-118%
2051-24-3	Decachlorobiphenyl	81%	52%	10-118%

(a) Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-30		
Lab Sample ID:	JC21229-4	**Date Sampled:**	05/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/28/16
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	6P26495.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
Run #2							

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

ABN TCL Special List

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

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPEB-30		
Lab Sample ID:	JC21229-4	**Date Sampled:**	05/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/28/16
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	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		14-88%
4165-62-2	Phenol-d5	19%		10-110%

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

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

Report of Analysis

Client Sample ID:	BPEB-30		
Lab Sample ID:	JC21229-4	**Date Sampled:**	05/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/28/16
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
118-79-6	2,4,6-Tribromophenol	73%		39-149%
4165-60-0	Nitrobenzene-d5	81%		32-128%
321-60-8	2-Fluorobiphenyl	83%		35-119%
1718-51-0	Terphenyl-d14	85%		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:	BPEB-30		
Lab Sample ID:	JC21229-4	**Date Sampled:**	05/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/28/16
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	3M61860.D	1	06/02/16	JJ	05/29/16	OP94328A	E3M2915
Run #2							

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

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		24-125%
321-60-8	2-Fluorobiphenyl	93%		19-127%
1718-51-0	Terphenyl-d14	84%		10-119%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-30		
Lab Sample ID:	JC21229-4	**Date Sampled:**	05/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/28/16
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH105309.D	1	06/01/16	XPL	n/a	n/a	GGH5307
Run #2							

Low Molecular Alcohol List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	76%		56-145%
111-27-3	Hexanol	76%		56-145%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-30		
Lab Sample ID:	JC21229-4	**Date Sampled:**	05/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/28/16
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	1G123826.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.011	0.0068	ug/l	
319-84-6	alpha-BHC	ND	0.011	0.0067	ug/l	
319-85-7	beta-BHC	ND	0.011	0.0064	ug/l	
319-86-8	delta-BHC	ND	0.011	0.0051	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	0.0031	ug/l	
5103-71-9	alpha-Chlordane	ND	0.011	0.0052	ug/l	
5103-74-2	gamma-Chlordane	ND	0.011	0.0052	ug/l	
60-57-1	Dieldrin	ND	0.011	0.0040	ug/l	
72-54-8	4,4'-DDD	ND	0.011	0.0043	ug/l	
72-55-9	4,4'-DDE	ND	0.011	0.0069	ug/l	
50-29-3	4,4'-DDT	ND	0.011	0.0056	ug/l	
72-20-8	Endrin	ND	0.011	0.0057	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	0.0059	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	0.0058	ug/l	
53494-70-5	Endrin ketone	ND	0.011	0.0057	ug/l	
959-98-8	Endosulfan-I	ND	0.011	0.0056	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	0.0048	ug/l	
76-44-8	Heptachlor	ND	0.011	0.0043	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	0.0073	ug/l	
72-43-5	Methoxychlor	ND	0.022	0.0064	ug/l	
8001-35-2	Toxaphene	ND	0.28	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		26-132%
877-09-8	Tetrachloro-m-xylene	89%		26-132%
2051-24-3	Decachlorobiphenyl	50%		10-118%
2051-24-3	Decachlorobiphenyl	54%		10-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

SGS ACCUTEST - NJ

SO GW WEB

CHAIN OF CUSTODY

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

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B0121953590 5

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # JC21229

Client / Reporting Information

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

Project Information

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

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

Matrix Codes

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	SVOC - Method 8270D	LMA - Method 8015B	Pesticides - Method 8081B	1,4 Dioxane + Naphthalene by Method 8270D SIM	LAB USE ONLY
1	SB102 (5.5-6.5)		05/27/16	1030	TT	SO						2				X	X	X	X	E39
2	SB102 (7-8)		05/27/16	1055	TT	SO						2				X	X	X	X	V054
3	SB102-GWD		05/27/16	1240	TT	GW	6	3				3				X	X	X	X	D23
4	BPEB-30		05/27/16	1400	TT	EB	6	3				3				X	X	X	X	C32 T1

INITIAL ASESSMENT 2AJK
LABEL VERIFICATION JK

Turnaround Time (Business days)

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

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 Method 8270D

Sample inventory is verified upon receipt in the Laboratory

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	05/27/16 1200	1 Fed EX	2 Fed Ex	5/28/16 1002	[signature]
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 # 346	[x] Intact [ ] Not intact	Preserved where applicable [ ]

On Ice [x] Cooler Temp. 4.7°C

JC21229: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC21229 **Client:** **Project:**

Date / Time Received: 5/28/2016 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (4.7);

Cooler Temps (Corrected) °C: Cooler 1: (5.6);

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

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

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

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

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

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

Comments

5.1

5

JC21229: Chain of Custody

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Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC21229

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC21229-1 Collected: 27-MAY-16 10:30 By: TT Received: 28-MAY-16 By: DG SB102 (5.5-6.5)						
JC21229-1	SW846-8015C (DAI)	02-JUN-16 10:42	XPL			D8015LMA
JC21229-1	SM2540 G-97	02-JUN-16 17:00	KP			SOL104
JC21229-1	SW846 8270D	06-JUN-16 15:34	AC	02-JUN-16	YB	AB8270SL
JC21229-1	SW846 8081B	07-JUN-16 14:01	KD	01-JUN-16	SZ	P8081PESTTCL
JC21229-1	SW846 8270D BY SIM	11-JUN-16 08:09	JJ	02-JUN-16	YB	B8270SIM14DIOX,BSIM + NAP
JC21229-2 Collected: 27-MAY-16 10:55 By: TT Received: 28-MAY-16 By: DG SB102 (7-8)						
JC21229-2	SW846-8015C (DAI)	02-JUN-16 09:47	XPL			D8015LMA
JC21229-2	SM2540 G-97	02-JUN-16 17:00	KP			SOL104
JC21229-2	SW846 8270D	06-JUN-16 16:01	AC	02-JUN-16	YB	AB8270SL
JC21229-2	SW846 8081B	07-JUN-16 14:16	KD	01-JUN-16	SZ	P8081PESTTCL
JC21229-2	SW846 8270D BY SIM	13-JUN-16 10:44	LK	02-JUN-16	YB	B8270SIM14DIOX,BSIM + NAP
JC21229-3 Collected: 27-MAY-16 12:40 By: TT Received: 28-MAY-16 By: DG SB102-GWD						
JC21229-3	SW846 8270D	31-MAY-16 10:39	AC	29-MAY-16	FA	AB8270SL
JC21229-3	SW846-8015C (DAI)	01-JUN-16 09:09	XPL			D8015LMA
JC21229-3	SW846 8081B	01-JUN-16 14:30	KD	29-MAY-16	FA	P8081PESTTCL
JC21229-3	SW846 8270D BY SIM	02-JUN-16 02:12	JJ	29-MAY-16	FA	B8270SIM14DIOX,BSIM + NAP
JC21229-3	SW846 8081B	03-JUN-16 11:07	KD	02-JUN-16	RF	P8081PESTTCL
JC21229-4 Collected: 27-MAY-16 14:00 By: TT Received: 28-MAY-16 By: DG BPEB-30						
JC21229-4	SW846 8270D	31-MAY-16 11:06	AC	29-MAY-16	FA	AB8270SL
JC21229-4	SW846-8015C (DAI)	01-JUN-16 09:22	XPL			D8015LMA
JC21229-4	SW846 8270D BY SIM	02-JUN-16 02:44	JJ	29-MAY-16	FA	B8270SIM14DIOX,BSIM + NAP
JC21229-4	SW846 8081B	03-JUN-16 12:34	KD	02-JUN-16	RF	P8081PESTTCL

SGS Accutest Internal Chain of Custody

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC21229-1.1	Secured Storage	Xu Liu	05/31/16 14:17	Retrieve from Storage
JC21229-1.1	Xu Liu	Secured Storage	05/31/16 14:40	Return to Storage
JC21229-1.1	Secured Storage	Nicole Kern	06/01/16 06:38	Retrieve from Storage
JC21229-1.1	Nicole Kern	Albert Quayson	06/01/16 08:12	Custody Transfer
JC21229-1.1	Albert Quayson	Secured Storage	06/01/16 10:07	Return to Storage
JC21229-1.1	Secured Storage	Sauvelson Auguste	06/02/16 06:16	Retrieve from Storage
JC21229-1.1	Sauvelson Auguste	Secured Storage	06/02/16 09:50	Return to Storage
JC21229-1.1.1	Nicole Kern	Organics Prep	06/01/16 06:39	Extract from JC21229-1.1
JC21229-1.1.1	Organics Prep	Steven Zarchy	06/01/16 14:42	Extract from JC21229-1.1
JC21229-1.1.1	Steven Zarchy	Extract Storage	06/01/16 14:42	Return to Storage
JC21229-1.1.1	Extract Storage	Kristen Drake	06/02/16 14:27	Retrieve from Storage
JC21229-1.1.1	Kristen Drake	GC4G	06/02/16 14:27	Load on Instrument
JC21229-1.1.1	GC4G	Dhara Saparia	06/10/16 11:47	Unload from Instrument
JC21229-1.1.1	Dhara Saparia	Extract Freezer	06/10/16 11:47	Return to Storage
JC21229-1.1.2	Sauvelson Auguste	Organics Prep	06/02/16 06:19	Extract from JC21229-1.1
JC21229-1.1.2	Organics Prep	Yaw Britwum	06/02/16 16:36	Extract from JC21229-1.1
JC21229-1.1.2	Yaw Britwum	Extract Storage	06/02/16 16:36	Return to Storage
JC21229-1.1.2	Extract Storage	Julius Johnson	06/03/16 23:57	Retrieve from Storage
JC21229-1.1.2	Julius Johnson	GCMS6P	06/03/16 23:57	Load on Instrument
JC21229-1.1.2	GCMS6P	Arielle Cocozza	06/07/16 11:17	Unload from Instrument
JC21229-1.1.2	Arielle Cocozza	Extract Freezer	06/07/16 11:17	Return to Storage
JC21229-1.1.2	Extract Freezer	Julius Johnson	06/10/16 22:45	Retrieve from Storage
JC21229-1.1.2	Julius Johnson	GCMS3M	06/10/16 22:45	Load on Instrument
JC21229-2.1	Secured Storage	Xu Liu	05/31/16 14:17	Retrieve from Storage
JC21229-2.1	Xu Liu	Secured Storage	05/31/16 14:40	Return to Storage
JC21229-2.1	Secured Storage	Nicole Kern	06/01/16 06:38	Retrieve from Storage
JC21229-2.1	Nicole Kern	Albert Quayson	06/01/16 08:12	Custody Transfer
JC21229-2.1	Albert Quayson	Secured Storage	06/01/16 10:07	Return to Storage
JC21229-2.1	Secured Storage	Sauvelson Auguste	06/02/16 06:16	Retrieve from Storage
JC21229-2.1	Sauvelson Auguste	Secured Storage	06/02/16 09:50	Return to Storage
JC21229-2.1.1	Nicole Kern	Organics Prep	06/01/16 06:39	Extract from JC21229-2.1
JC21229-2.1.1	Organics Prep	Steven Zarchy	06/01/16 14:42	Extract from JC21229-2.1
JC21229-2.1.1	Steven Zarchy	Extract Storage	06/01/16 14:42	Return to Storage
JC21229-2.1.1	Extract Storage	Kristen Drake	06/02/16 14:27	Retrieve from Storage
JC21229-2.1.1	Kristen Drake	GC4G	06/02/16 14:27	Load on Instrument
JC21229-2.1.1	GC4G	Dhara Saparia	06/10/16 11:47	Unload from Instrument
JC21229-2.1.1	Dhara Saparia	Extract Freezer	06/10/16 11:47	Return to Storage
JC21229-2.1.2	Sauvelson Auguste	Organics Prep	06/02/16 06:19	Extract from JC21229-2.1
JC21229-2.1.2	Organics Prep	Yaw Britwum	06/02/16 16:36	Extract from JC21229-2.1

SGS Accutest Internal Chain of Custody

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC21229-2.1.2	Yaw Britwum	Extract Storage	06/02/16 16:36	Return to Storage
JC21229-2.1.2	Extract Storage	Julius Johnson	06/03/16 23:57	Retrieve from Storage
JC21229-2.1.2	Julius Johnson	GCMS6P	06/03/16 23:57	Load on Instrument
JC21229-2.1.2	GCMS6P	Arielle Cocozza	06/07/16 11:17	Unload from Instrument
JC21229-2.1.2	Arielle Cocozza	Extract Freezer	06/07/16 11:17	Return to Storage
JC21229-2.1.2	Extract Freezer	Julius Johnson	06/10/16 22:45	Retrieve from Storage
JC21229-2.1.2	Julius Johnson	GCMS3M	06/10/16 22:45	Load on Instrument
JC21229-3.1	Secured Storage	Ryan Fantasia	06/02/16 17:52	Retrieve from Storage
JC21229-3.1	Max Ponce		06/03/16 22:55	Depleted
Analyst unavailable for custody transfer.				
JC21229-3.1.1	Ryan Fantasia	Organics Prep	06/02/16 17:53	Extract from JC21229-3.1
JC21229-3.1.1	Organics Prep	Ryan Fantasia	06/02/16 22:19	Extract from JC21229-3.1
JC21229-3.1.1	Ryan Fantasia	Extract Storage	06/02/16 22:19	Return to Storage
JC21229-3.1.1	Extract Storage	Kristen Drake	06/03/16 10:36	Retrieve from Storage
JC21229-3.1.1	Kristen Drake	GC1G	06/03/16 10:36	Load on Instrument
JC21229-3.1.1	GC1G	Dhara Saparia	06/09/16 16:34	Unload from Instrument
JC21229-3.1.1	Dhara Saparia	Extract Freezer	06/09/16 16:34	Return to Storage
JC21229-3.2	Secured Storage	Luis Villanueva	05/28/16 13:37	Retrieve from Storage
JC21229-3.2	Luis Villanueva	Secured Staging Area	05/28/16 13:37	Return to Storage
JC21229-3.2	Secured Storage	Jennifer Voitovitch	05/29/16 07:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC21229-3.2	Jennifer Voitovitch	Secured Staging Area	05/29/16 07:44	Return to Storage
JC21229-3.2	Secured Staging Area	Folarin Adedeji	05/29/16 09:17	Retrieve from Storage
JC21229-3.2	Folarin Adedeji		05/29/16 17:13	Depleted
JC21229-3.2.1	Folarin Adedeji	Organics Prep	05/29/16 09:19	Extract from JC21229-3.2
JC21229-3.2.1	Organics Prep	Folarin Adedeji	05/29/16 17:07	Extract from JC21229-3.2
JC21229-3.2.1	Folarin Adedeji	Extract Storage	05/29/16 17:07	Return to Storage
JC21229-3.2.1	Extract Storage	Arielle Cocozza	05/31/16 11:03	Retrieve from Storage
JC21229-3.2.1	Arielle Cocozza	GCMS6P	05/31/16 11:03	Load on Instrument
JC21229-3.2.1	GCMS6P	Arielle Cocozza	06/01/16 14:30	Unload from Instrument
JC21229-3.2.1	Arielle Cocozza	Extract Freezer	06/01/16 14:30	Return to Storage
JC21229-3.3	Secured Storage	Luis Villanueva	05/28/16 13:37	Retrieve from Storage
JC21229-3.3	Luis Villanueva	Secured Staging Area	05/28/16 13:37	Return to Storage
JC21229-3.3	Secured Storage	Jennifer Voitovitch	05/29/16 07:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC21229-3.3	Jennifer Voitovitch	Secured Staging Area	05/29/16 07:44	Return to Storage
JC21229-3.3	Secured Staging Area	Folarin Adedeji	05/29/16 09:17	Retrieve from Storage
JC21229-3.3	Folarin Adedeji		05/29/16 17:13	Depleted

SGS Accutest Internal Chain of Custody

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC21229-3.3.1	Folarin Adedeji	Organics Prep	05/29/16 09:21	Extract from JC21229-3.3
JC21229-3.3.1	Organics Prep	Folarin Adedeji	05/29/16 17:08	Extract from JC21229-3.3
JC21229-3.3.1	Folarin Adedeji	Extract Storage	05/29/16 17:08	Return to Storage
JC21229-3.3.1	Extract Storage	Kristen Drake	05/31/16 11:22	Retrieve from Storage
JC21229-3.3.1	Kristen Drake	GC4G	05/31/16 11:22	Load on Instrument
JC21229-3.3.1	GC4G	Dhara Saparia	06/10/16 11:47	Unload from Instrument
JC21229-3.3.1	Dhara Saparia	Extract Freezer	06/10/16 11:47	Return to Storage
JC21229-3.5	Secured Storage	Xu Liu	05/31/16 10:26	Retrieve from Storage
JC21229-3.5	Xu Liu	Secured Storage	05/31/16 14:40	Return to Storage
JC21229-3.5	Secured Storage	Xu Liu	06/01/16 09:55	Retrieve from Storage
JC21229-3.5	Xu Liu	Secured Storage	06/01/16 14:11	Return to Storage
JC21229-4.1	Secured Storage	Luis Villanueva	05/28/16 13:37	Retrieve from Storage
JC21229-4.1	Luis Villanueva	Secured Staging Area	05/28/16 13:37	Return to Storage
JC21229-4.1	Secured Storage	Jennifer Voitovitch	05/29/16 07:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC21229-4.1	Jennifer Voitovitch	Secured Staging Area	05/29/16 07:44	Return to Storage
JC21229-4.1	Secured Staging Area	Folarin Adedeji	05/29/16 09:17	Retrieve from Storage
JC21229-4.1	Folarin Adedeji		05/29/16 17:13	Depleted
JC21229-4.1.1	Folarin Adedeji	Organics Prep	05/29/16 09:19	Extract from JC21229-4.1
JC21229-4.1.1	Organics Prep	Folarin Adedeji	05/29/16 17:07	Extract from JC21229-4.1
JC21229-4.1.1	Folarin Adedeji	Extract Storage	05/29/16 17:07	Return to Storage
JC21229-4.1.1	Extract Storage	Arielle Cocozza	05/31/16 11:03	Retrieve from Storage
JC21229-4.1.1	Arielle Cocozza	GCMS6P	05/31/16 11:03	Load on Instrument
JC21229-4.1.1	GCMS6P	Arielle Cocozza	06/01/16 14:30	Unload from Instrument
JC21229-4.1.1	Arielle Cocozza	Extract Freezer	06/01/16 14:30	Return to Storage
JC21229-4.2	Secured Storage	Luis Villanueva	05/28/16 13:37	Retrieve from Storage
JC21229-4.2	Luis Villanueva	Secured Staging Area	05/28/16 13:37	Return to Storage
JC21229-4.2	Secured Storage	Jennifer Voitovitch	05/29/16 07:43	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JC21229-4.2	Jennifer Voitovitch	Secured Staging Area	05/29/16 07:44	Return to Storage
JC21229-4.2	Secured Staging Area	Folarin Adedeji	05/29/16 09:17	Retrieve from Storage
JC21229-4.2	Folarin Adedeji		05/29/16 17:13	Depleted
JC21229-4.2.1	Folarin Adedeji	Organics Prep	05/29/16 09:21	Extract from JC21229-4.2
JC21229-4.2.1	Organics Prep	Folarin Adedeji	05/29/16 17:08	Extract from JC21229-4.2
JC21229-4.2.1	Folarin Adedeji	Extract Storage	05/29/16 17:08	Return to Storage
JC21229-4.2.1	Extract Storage	Kristen Drake	05/31/16 11:22	Retrieve from Storage
JC21229-4.2.1	Kristen Drake	GC4G	05/31/16 11:22	Load on Instrument
JC21229-4.2.1	GC4G	Dhara Saparia	06/10/16 11:47	Unload from Instrument
JC21229-4.2.1	Dhara Saparia	Extract Freezer	06/10/16 11:47	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 05/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC21229-4.3	Secured Storage	Ryan Fantasia	06/02/16 17:52	Retrieve from Storage
JC21229-4.3	Max Ponce		06/03/16 22:55	Depleted
Analyst unavailable for custody transfer.				
JC21229-4.3.1	Ryan Fantasia	Organics Prep	06/02/16 17:53	Extract from JC21229-4.3
JC21229-4.3.1	Organics Prep	Ryan Fantasia	06/02/16 22:19	Extract from JC21229-4.3
JC21229-4.3.1	Ryan Fantasia	Extract Storage	06/02/16 22:19	Return to Storage
JC21229-4.3.1	Extract Storage	Kristen Drake	06/03/16 10:36	Retrieve from Storage
JC21229-4.3.1	Kristen Drake	GC1G	06/03/16 10:36	Load on Instrument
JC21229-4.3.1	GC1G	Dhara Saparia	06/09/16 16:34	Unload from Instrument
JC21229-4.3.1	Dhara Saparia	Extract Freezer	06/09/16 16:34	Return to Storage
JC21229-4.5	Secured Storage	Xu Liu	05/31/16 10:26	Retrieve from Storage
JC21229-4.5	Xu Liu	Secured Storage	05/31/16 14:40	Return to Storage
JC21229-4.5	Secured Storage	Xu Liu	06/01/16 09:55	Retrieve from Storage
JC21229-4.5	Xu Liu	Secured Storage	06/01/16 14:11	Return to Storage

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-MB1	6P26492.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

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: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-MB1	6P26492.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

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	
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	8.7	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.26	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	14-88%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-MB1	6P26492.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	39%	10-110%
118-79-6	2,4,6-Tribromophenol	65%	39-149%
4165-60-0	Nitrobenzene-d5	69%	32-128%
321-60-8	2-Fluorobiphenyl	67%	35-119%
1718-51-0	Terphenyl-d14	77%	10-126%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	14.82	5.2	ug/l	J
	alkane	15.31	5.2	ug/l	J
	unknown	15.54	13	ug/l	J
	alkane	15.79	5.9	ug/l	J
	alkane	16.26	4.8	ug/l	J
	unknown phthalate	18.25	4.8	ug/l	J
	Total TIC, Semi-Volatile		38.9	ug/l	J

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-MB1	6P26628.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

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

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-MB1	6P26628.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	77%	30-106%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-MB1	6P26628.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	77%	30-106%
118-79-6	2,4,6-Tribromophenol	74%	24-140%
4165-60-0	Nitrobenzene-d5	90%	26-122%
321-60-8	2-Fluorobiphenyl	88%	36-112%
1718-51-0	Terphenyl-d14	94%	36-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.16	440	ug/kg	J
	system artifact	3.47	360	ug/kg	J
	system artifact/aldol-condensation	3.53	140	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328A-MB1	3M61855.D	1	06/02/16	JJ	05/29/16	OP94328A	E3M2915

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

JC21229-3, JC21229-4

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	56%	14-81%
4165-62-2	Phenol-d5	40%	11-54%
118-79-6	2,4,6-Tribromophenol	71%	35-145%
4165-60-0	Nitrobenzene-d5	62%	24-125%
321-60-8	2-Fluorobiphenyl	73%	19-127%
1718-51-0	Terphenyl-d14	78%	10-119%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328A-MB1	3M62046.D	1	06/07/16	AD	05/29/16	OP94328A	E3M2924

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

JC21229-3, JC21229-4

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	58%	14-81%
4165-62-2	Phenol-d5	42%	11-54%
118-79-6	2,4,6-Tribromophenol	72%	35-145%
4165-60-0	Nitrobenzene-d5	65%	24-125%
321-60-8	2-Fluorobiphenyl	71%	19-127%
1718-51-0	Terphenyl-d14	75%	10-119%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419A-MB1	3M62166.D	1	06/11/16	JJ	06/02/16	OP94419A	E3M2930

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

JC21229-1, JC21229-2

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

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	86%	15-138%
321-60-8	2-Fluorobiphenyl	103%	12-148%
1718-51-0	Terphenyl-d14	114%	10-157%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419A-MB1	4P16863.D	1	06/13/16	LK	06/02/16	OP94419A	E4P896

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

JC21229-1, JC21229-2

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

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	76%	15-138%
321-60-8	2-Fluorobiphenyl	107%	12-148%
1718-51-0	Terphenyl-d14	99%	10-157%

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-BS1	6P26493.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	34.1	68	48-106
59-50-7	4-Chloro-3-methyl phenol	50	40.6	81	49-113
120-83-2	2,4-Dichlorophenol	50	38.5	77	49-111
105-67-9	2,4-Dimethylphenol	50	41.8	84	42-117
51-28-5	2,4-Dinitrophenol	100	91.1	91	37-132
534-52-1	4,6-Dinitro-o-cresol	50	46.6	93	49-119
95-48-7	2-Methylphenol	50	30.9	62	42-103
	3&4-Methylphenol	50	28.7	57	39-110
88-75-5	2-Nitrophenol	50	39.9	80	49-114
100-02-7	4-Nitrophenol	50	23.4	47	16-95
87-86-5	Pentachlorophenol	50	33.2	66	30-136
108-95-2	Phenol	50	17.4	35	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	42.5	85	47-118
95-95-4	2,4,5-Trichlorophenol	50	40.2	80	55-116
88-06-2	2,4,6-Trichlorophenol	50	43.9	88	56-115
83-32-9	Acenaphthene	50	37.5	75	54-112
208-96-8	Acenaphthylene	50	36.3	73	49-99
98-86-2	Acetophenone	50	39.1	78	52-111
120-12-7	Anthracene	50	39.7	79	58-112
1912-24-9	Atrazine	50	50.2	100	62-134
100-52-7	Benzaldehyde	50	38.6	77	40-129
56-55-3	Benzo(a)anthracene	50	39.7	79	44-120
50-32-8	Benzo(a)pyrene	50	40.1	80	41-127
205-99-2	Benzo(b)fluoranthene	50	40.7	81	41-129
191-24-2	Benzo(g,h,i)perylene	50	31.4	63	34-128
207-08-9	Benzo(k)fluoranthene	50	40.3	81	42-122
101-55-3	4-Bromophenyl phenyl ether	50	38.0	76	54-121
85-68-7	Butyl benzyl phthalate	50	46.3	93	20-143
92-52-4	1,1'-Biphenyl	50	40.0	80	51-106
91-58-7	2-Chloronaphthalene	50	34.3	69	48-104
106-47-8	4-Chloroaniline	50	31.3	63	10-110
86-74-8	Carbazole	50	42.3	85	56-110
105-60-2	Caprolactam	50	10.4	21	10-110
218-01-9	Chrysene	50	38.3	77	45-125
111-91-1	bis(2-Chloroethoxy)methane	50	36.3	73	47-117
111-44-4	bis(2-Chloroethyl)ether	50	36.8	74	48-115

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-BS1	6P26493.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	31.3	63	44-112
7005-72-3	4-Chlorophenyl phenyl ether	50	36.1	72	50-117
121-14-2	2,4-Dinitrotoluene	50	46.1	92	57-122
606-20-2	2,6-Dinitrotoluene	50	46.4	93	58-122
91-94-1	3,3'-Dichlorobenzidine	100	55.3	55	10-110
53-70-3	Dibenzo(a,h)anthracene	50	32.5	65	36-130
132-64-9	Dibenzofuran	50	41.6	83	55-108
84-74-2	Di-n-butyl phthalate	50	42.7	85	45-123
117-84-0	Di-n-octyl phthalate	50	49.2	98	37-144
84-66-2	Diethyl phthalate	50	41.5	83	23-130
131-11-3	Dimethyl phthalate	50	40.9	82	10-140
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.9	90	36-138
206-44-0	Fluoranthene	50	40.0	80	58-116
86-73-7	Fluorene	50	39.1	78	57-113
118-74-1	Hexachlorobenzene	50	35.3	71	49-122
87-68-3	Hexachlorobutadiene	50	29.6	59	24-112
77-47-4	Hexachlorocyclopentadiene	100	39.6	40	14-119
67-72-1	Hexachloroethane	50	27.6	55	31-107
193-39-5	Indeno(1,2,3-cd)pyrene	50	34.2	68	34-128
78-59-1	Isophorone	50	40.9	82	52-119
90-12-0	1-Methylnaphthalene	50	38.3	77	46-103
91-57-6	2-Methylnaphthalene	50	37.3	75	45-107
88-74-4	2-Nitroaniline	50	51.1	102	51-127
99-09-2	3-Nitroaniline	50	35.8	72	10-110
100-01-6	4-Nitroaniline	50	40.0	80	50-112
98-95-3	Nitrobenzene	50	38.3	77	44-116
621-64-7	N-Nitroso-di-n-propylamine	50	36.8	74	49-117
86-30-6	N-Nitrosodiphenylamine	50	42.0	84	51-113
85-01-8	Phenanthrene	50	39.5	79	56-111
129-00-0	Pyrene	50	41.8	84	47-120
95-94-3	1,2,4,5-Tetrachlorobenzene	50	36.0	72	36-114

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	42%	14-88%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-BS1	6P26493.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	28%	10-110%
118-79-6	2,4,6-Tribromophenol	71%	39-149%
4165-60-0	Nitrobenzene-d5	78%	32-128%
321-60-8	2-Fluorobiphenyl	79%	35-119%
1718-51-0	Terphenyl-d14	80%	10-126%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-BS1	6P26629.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1300	78	54-98
59-50-7	4-Chloro-3-methyl phenol	1670	1420	85	52-107
120-83-2	2,4-Dichlorophenol	1670	1290	77	53-105
105-67-9	2,4-Dimethylphenol	1670	1500	90	49-115
51-28-5	2,4-Dinitrophenol	3330	2790	84	30-127
534-52-1	4,6-Dinitro-o-cresol	1670	1470	88	41-114
95-48-7	2-Methylphenol	1670	1240	74	53-103
	3&4-Methylphenol	1670	1270	76	53-102
88-75-5	2-Nitrophenol	1670	1300	78	52-104
100-02-7	4-Nitrophenol	1670	1470	88	36-143
87-86-5	Pentachlorophenol	1670	992	60	29-128
108-95-2	Phenol	1670	1290	77	45-106
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1290	77	47-113
95-95-4	2,4,5-Trichlorophenol	1670	1220	73	55-112
88-06-2	2,4,6-Trichlorophenol	1670	1360	82	57-108
83-32-9	Acenaphthene	1670	1340	80	60-108
208-96-8	Acenaphthylene	1670	1280	77	54-94
98-86-2	Acetophenone	1670	1380	83	53-110
120-12-7	Anthracene	1670	1310	79	59-109
1912-24-9	Atrazine	1670	1540	92	59-126
56-55-3	Benzo(a)anthracene	1670	1320	79	52-113
50-32-8	Benzo(a)pyrene	1670	1370	82	56-122
205-99-2	Benzo(b)fluoranthene	1670	1390	83	53-119
191-24-2	Benzo(g,h,i)perylene	1670	1040	62	48-117
207-08-9	Benzo(k)fluoranthene	1670	1300	78	52-115
101-55-3	4-Bromophenyl phenyl ether	1670	1280	77	58-114
85-68-7	Butyl benzyl phthalate	1670	1540	92	44-132
92-52-4	1,1'-Biphenyl	1670	1340	80	54-101
100-52-7	Benzaldehyde	1670	1230	74	39-117
91-58-7	2-Chloronaphthalene	1670	1260	76	54-103
106-47-8	4-Chloroaniline	1670	699	42	10-110
86-74-8	Carbazole	1670	1320	79	55-105
105-60-2	Caprolactam	1670	1290	77	42-111
218-01-9	Chrysene	1670	1230	74	51-119
111-91-1	bis(2-Chloroethoxy)methane	1670	1210	73	51-106
111-44-4	bis(2-Chloroethyl)ether	1670	1280	77	48-107

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-BS1	6P26629.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1150	69	46-103
7005-72-3	4-Chlorophenyl phenyl ether	1670	1270	76	54-112
121-14-2	2,4-Dinitrotoluene	1670	1470	88	56-116
606-20-2	2,6-Dinitrotoluene	1670	1460	88	56-115
91-94-1	3,3'-Dichlorobenzidine	3330	1900	57	22-103
53-70-3	Dibenzo(a,h)anthracene	1670	1090	65	49-118
132-64-9	Dibenzofuran	1670	1340	80	55-103
84-74-2	Di-n-butyl phthalate	1670	1400	84	56-117
117-84-0	Di-n-octyl phthalate	1670	1710	103	47-137
84-66-2	Diethyl phthalate	1670	1350	81	54-112
131-11-3	Dimethyl phthalate	1670	1310	79	56-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1480	89	45-130
206-44-0	Fluoranthene	1670	1260	76	58-110
86-73-7	Fluorene	1670	1330	80	59-108
118-74-1	Hexachlorobenzene	1670	1180	71	55-114
87-68-3	Hexachlorobutadiene	1670	1340	80	44-118
77-47-4	Hexachlorocyclopentadiene	3330	2030	61	41-137
67-72-1	Hexachloroethane	1670	1240	74	50-107
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1240	74	48-120
78-59-1	Isophorone	1670	1380	83	54-109
90-12-0	1-Methylnaphthalene	1670	1310	79	50-110
91-57-6	2-Methylnaphthalene	1670	1280	77	48-104
88-74-4	2-Nitroaniline	1670	1710	103	49-124
99-09-2	3-Nitroaniline	1670	851	51	22-110
100-01-6	4-Nitroaniline	1670	1210	73	50-107
98-95-3	Nitrobenzene	1670	1340	80	47-108
621-64-7	N-Nitroso-di-n-propylamine	1670	1350	81	49-106
86-30-6	N-Nitrosodiphenylamine	1670	1410	85	53-112
85-01-8	Phenanthrene	1670	1260	76	57-105
129-00-0	Pyrene	1670	1360	82	50-117
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1400	84	52-109

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	30-106%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-BS1	6P26629.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	76%	30-106%
118-79-6	2,4,6-Tribromophenol	69%	24-140%
4165-60-0	Nitrobenzene-d5	83%	26-122%
321-60-8	2-Fluorobiphenyl	80%	36-112%
1718-51-0	Terphenyl-d14	78%	36-132%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328A-BS12	3M61856.D	1	06/02/16	JJ	05/29/16	OP94328A	E3M2915

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

JC21229-3, JC21229-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.543	54	40-119
123-91-1	1,4-Dioxane	1	0.350	35	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	53%	14-81%
4165-62-2	Phenol-d5	38%	11-54%
118-79-6	2,4,6-Tribromophenol	76%	35-145%
4165-60-0	Nitrobenzene-d5	59%	24-125%
321-60-8	2-Fluorobiphenyl	76%	19-127%
1718-51-0	Terphenyl-d14	85%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328A-BS12	3M62047.D	1	06/07/16	AD	05/29/16	OP94328A	E3M2924

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

JC21229-3, JC21229-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.564	56	40-119
123-91-1	1,4-Dioxane	1	0.393	39	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	52%	14-81%
4165-62-2	Phenol-d5	39%	11-54%
118-79-6	2,4,6-Tribromophenol	74%	35-145%
4165-60-0	Nitrobenzene-d5	63%	24-125%
321-60-8	2-Fluorobiphenyl	71%	19-127%
1718-51-0	Terphenyl-d14	79%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419A-BS12	3M62167.D	1	06/11/16	JJ	06/02/16	OP94419A	E3M2930

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

JC21229-1, JC21229-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
123-91-1	1,4-Dioxane	33.3	27.3	82	10-100
91-20-3	Naphthalene	33.3	26.1	78	35-142

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	15-138%
321-60-8	2-Fluorobiphenyl	95%	12-148%
1718-51-0	Terphenyl-d14	100%	10-157%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-MS	6P26498.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
OP94328-MSD	6P26499.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
JC20992-1	6P26500.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Compound	JC20992-1 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	72.0	72	100	66.7	67	8	49-110/20
59-50-7	4-Chloro-3-methyl phenol	ND		100	82.0	82	100	82.2	82	0	44-121/18
120-83-2	2,4-Dichlorophenol	ND		100	77.8	78	100	75.0	75	4	42-120/19
105-67-9	2,4-Dimethylphenol	ND		100	88.1	88	100	86.7	87	2	33-132/23
51-28-5	2,4-Dinitrophenol	ND		200	199	100	200	207	104	4	21-145/26
534-52-1	4,6-Dinitro-o-cresol	ND		100	99.4	99	100	100	100	1	25-134/27
95-48-7	2-Methylphenol	ND		100	70.3	70	100	68.9	69	2	47-112/18
	3&4-Methylphenol	ND		100	66.8	67	100	69.1	69	3	44-113/19
88-75-5	2-Nitrophenol	ND		100	78.3	78	100	72.9	73	7	45-118/20
100-02-7	4-Nitrophenol	ND		100	73.3	73	100	89.5	90	20	23-144/28
87-86-5	Pentachlorophenol	ND		100	80.1	80	100	82.6	83	3	25-151/25
108-95-2	Phenol	ND		100	51.6	52	100	60.2	60	15	22-100/22
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	87.3	87	100	89.0	89	2	44-122/21
95-95-4	2,4,5-Trichlorophenol	ND		100	80.6	81	100	80.1	80	1	51-124/20
88-06-2	2,4,6-Trichlorophenol	ND		100	90.2	90	100	88.4	88	2	53-120/21
83-32-9	Acenaphthene	2.8		100	87.7	85	100	84.7	82	3	52-120/23
208-96-8	Acenaphthylene	ND		100	78.9	79	100	76.9	77	3	50-101/22
98-86-2	Acetophenone	ND		100	83.1	83	100	75.0	75	10	31-141/23
120-12-7	Anthracene	0.51	J	100	82.7	82	100	82.1	82	1	54-117/22
1912-24-9	Atrazine	ND		100	91.0	91	100	89.9	90	1	42-152/23
100-52-7	Benzaldehyde	ND		100	96.3	96	100	85.7	86	12	10-164/30
56-55-3	Benzo(a)anthracene	ND		100	80.9	81	100	80.9	81	0	40-123/24
50-32-8	Benzo(a)pyrene	ND		100	81.8	82	100	81.4	81	0	41-127/25
205-99-2	Benzo(b)fluoranthene	ND		100	82.5	83	100	80.2	80	3	39-127/27
191-24-2	Benzo(g,h,i)perylene	ND		100	73.7	74	100	72.2	72	2	34-128/28
207-08-9	Benzo(k)fluoranthene	ND		100	80.9	81	100	80.7	81	0	39-122/26
101-55-3	4-Bromophenyl phenyl ether	ND		100	82.1	82	100	81.7	82	0	51-124/23
85-68-7	Butyl benzyl phthalate	ND		100	96.8	97	100	97.4	97	1	21-146/28
92-52-4	1,1'-Biphenyl	ND		100	85.8	86	100	82.5	83	4	27-142/23
91-58-7	2-Chloronaphthalene	ND		100	79.0	79	100	76.0	76	4	51-109/23
106-47-8	4-Chloroaniline	ND		100	47.8	48	100	38.5	39	22	10-110/55
86-74-8	Carbazole	ND		100	84.4	84	100	84.6	85	0	52-116/22
105-60-2	Caprolactam	ND		100	37.6	38	100	38.2	38	2	10-106/34
218-01-9	Chrysene	ND		100	78.0	78	100	78.9	79	1	41-128/24
111-91-1	bis(2-Chloroethoxy)methane	ND		100	73.4	73	100	67.9	68	8	46-120/24
111-44-4	bis(2-Chloroethyl)ether	ND		100	77.1	77	100	67.1	67	14	42-123/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-MS	6P26498.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
OP94328-MSD	6P26499.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
JC20992-1	6P26500.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Compound	JC20992-1 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	66.7	67	100	59.7	60	11	41-117/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		100	80.0	80	100	78.8	79	2	48-121/21
121-14-2	2,4-Dinitrotoluene	ND		100	91.7	92	100	92.6	93	1	54-123/27
606-20-2	2,6-Dinitrotoluene	ND		100	92.0	92	100	90.0	90	2	55-125/26
91-94-1	3,3'-Dichlorobenzidine	ND		200	83.5	42	200	51.0	26	48* [a]	10-107/47
53-70-3	Dibenzo(a,h)anthracene	ND		100	74.6	75	100	73.8	74	1	35-130/27
132-64-9	Dibenzofuran	1.7	J	100	86.2	85	100	86.1	84	0	53-112/22
84-74-2	Di-n-butyl phthalate	ND		100	87.1	87	100	87.2	87	0	38-129/23
117-84-0	Di-n-octyl phthalate	ND		100	99.9	100	100	97.4	97	3	35-145/26
84-66-2	Diethyl phthalate	ND		100	82.8	83	100	83.3	83	1	16-136/30
131-11-3	Dimethyl phthalate	ND		100	82.7	83	100	81.7	82	1	10-143/39
117-81-7	bis(2-Ethylhexyl)phthalate	ND		100	93.4	93	100	91.4	91	2	34-141/28
206-44-0	Fluoranthene	ND		100	79.1	79	100	79.9	80	1	47-123/24
86-73-7	Fluorene	2.3		100	85.5	83	100	85.3	83	0	56-117/22
118-74-1	Hexachlorobenzene	ND		100	73.2	73	100	72.9	73	0	46-125/24
87-68-3	Hexachlorobutadiene	ND		100	69.9	70	100	63.7	64	9	26-121/24
77-47-4	Hexachlorocyclopentadiene	ND		200	92.3	46	200	89.3	45	3	10-133/31
67-72-1	Hexachloroethane	ND		100	66.5	67	100	56.1	56	17	35-111/26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		100	79.0	79	100	80.5	81	2	32-130/30
78-59-1	Isophorone	ND		100	82.2	82	100	77.5	78	6	47-126/23
90-12-0	1-Methylnaphthalene	ND		100	92.1	92	100	86.1	86	7	34-124/25
91-57-6	2-Methylnaphthalene	1.0		100	77.0	76	100	72.7	72	6	34-123/24
88-74-4	2-Nitroaniline	ND		100	105	105	100	106	106	1	46-137/23
99-09-2	3-Nitroaniline	ND		100	55.4	55	100	47.2	47	16	10-110/50
100-01-6	4-Nitroaniline	ND		100	69.1	69	100	67.0	67	3	38-118/25
98-95-3	Nitrobenzene	ND		100	79.6	80	100	73.1	73	9	35-130/25
621-64-7	N-Nitroso-di-n-propylamine	ND		100	75.6	76	100	69.3	69	9	45-123/22
86-30-6	N-Nitrosodiphenylamine	ND		100	90.7	91	100	90.4	90	0	46-123/24
85-01-8	Phenanthrene	1.5		100	83.1	82	100	82.6	81	1	48-121/23
129-00-0	Pyrene	0.50	J	100	90.5	90	100	86.5	86	5	43-124/26
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		100	87.8	88	100	81.6	82	7	25-142/24

CAS No.	Surrogate Recoveries	MS	MSD	JC20992-1	Limits
367-12-4	2-Fluorophenol	55%	61%		14-88%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328-MS	6P26498.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
OP94328-MSD	6P26499.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232
JC20992-1	6P26500.D	1	05/31/16	AC	05/29/16	OP94328	E6P1232

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

JC21229-3, JC21229-4

CAS No.	Surrogate Recoveries	MS	MSD	JC20992-1	Limits
4165-62-2	Phenol-d5	45%	57%		10-110%
118-79-6	2,4,6-Tribromophenol	78%	76%		39-149%
4165-60-0	Nitrobenzene-d5	80%	72%	73%	32-128%
321-60-8	2-Fluorobiphenyl	86%	81%	78%	35-119%
1718-51-0	Terphenyl-d14	82%	83%	82%	10-126%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-MS	6P26632.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236
OP94419-MSD	6P26633.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236
JC21230-2	6P26631.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Compound	JC21230-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		2060	1500	73	1950	1370	70	9	33-106/35
59-50-7	4-Chloro-3-methyl phenol	ND		2060	1830	89	1950	1580	81	15	27-124/34
120-83-2	2,4-Dichlorophenol	ND		2060	1500	73	1950	1370	70	9	25-122/34
105-67-9	2,4-Dimethylphenol	ND		2060	1840	90	1950	1680	86	9	23-133/34
51-28-5	2,4-Dinitrophenol	ND		4110	622	15	3900	691	18	11	10-110/51
534-52-1	4,6-Dinitro-o-cresol	ND		2060	587	29	1950	707	36	19	10-113/49
95-48-7	2-Methylphenol	ND		2060	1450	71	1950	1340	69	8	32-111/34
	3&4-Methylphenol	ND		2060	1490	72	1950	1350	69	10	32-113/34
88-75-5	2-Nitrophenol	ND		2060	1370	67	1950	1220	62	12	17-118/37
100-02-7	4-Nitrophenol	ND		2060	2000	97	1950	1840	94	8	14-154/39
87-86-5	Pentachlorophenol	ND		2060	1440	70	1950	1270	65	13	10-131/43
108-95-2	Phenol	ND		2060	1720	84	1950	1540	79	11	25-112/33
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2060	1590	77	1950	1390	71	13	19-125/37
95-95-4	2,4,5-Trichlorophenol	ND		2060	1470	72	1950	1340	69	9	30-125/35
88-06-2	2,4,6-Trichlorophenol	ND		2060	1650	80	1950	1510	77	9	26-126/35
83-32-9	Acenaphthene	ND		2060	1560	76	1950	1410	72	10	34-125/36
208-96-8	Acenaphthylene	ND		2060	1520	74	1950	1360	70	11	28-113/34
98-86-2	Acetophenone	37.1	J	2060	1590	76	1950	1450	72	9	26-120/34
120-12-7	Anthracene	ND		2060	1540	75	1950	1390	71	10	31-131/41
1912-24-9	Atrazine	ND		2060	1660	81	1950	1590	81	4	34-138/36
56-55-3	Benzo(a)anthracene	ND		2060	1570	76	1950	1410	72	11	23-136/43
50-32-8	Benzo(a)pyrene	ND		2060	1700	83	1950	1490	76	13	22-144/42
205-99-2	Benzo(b)fluoranthene	ND		2060	1620	79	1950	1430	73	12	18-145/43
191-24-2	Benzo(g,h,i)perylene	ND		2060	1480	72	1950	1270	65	15	20-138/43
207-08-9	Benzo(k)fluoranthene	ND		2060	1620	79	1950	1400	72	15	27-129/43
101-55-3	4-Bromophenyl phenyl ether	ND		2060	1530	74	1950	1360	70	12	39-124/33
85-68-7	Butyl benzyl phthalate	ND		2060	2020	98	1950	1900	97	6	27-143/35
92-52-4	1,1'-Biphenyl	ND		2060	1560	76	1950	1420	73	9	33-116/32
100-52-7	Benzaldehyde	24.5	J	2060	1400	67	1950	1280	64	9	20-129/34
91-58-7	2-Chloronaphthalene	ND		2060	1510	73	1950	1370	70	10	38-110/32
106-47-8	4-Chloroaniline	ND		2060	747	36	1950	674	35	10	10-110/49
86-74-8	Carbazole	ND		2060	1510	66	1950	1380	63	9	27-129/38
105-60-2	Caprolactam	ND		2060	1710	83	1950	1540	79	10	18-127/35
218-01-9	Chrysene	ND		2060	1450	71	1950	1290	66	12	21-142/43
111-91-1	bis(2-Chloroethoxy)methane	ND		2060	1440	70	1950	1290	66	11	32-116/33
111-44-4	bis(2-Chloroethyl)ether	ND		2060	1500	73	1950	1390	71	8	30-113/37

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-MS	6P26632.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236
OP94419-MSD	6P26633.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236
JC21230-2	6P26631.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Compound	JC21230-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		2060	1320	64	1950	1200	61	10	28-110/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		2060	1500	73	1950	1340	69	11	38-119/33
121-14-2	2,4-Dinitrotoluene	ND		2060	1660	81	1950	1480	76	11	28-126/36
606-20-2	2,6-Dinitrotoluene	ND		2060	1650	80	1950	1470	75	12	31-126/34
91-94-1	3,3'-Dichlorobenzidine	ND		4110	2120	52	3900	2100	54	1	10-115/44
53-70-3	Dibenzo(a,h)anthracene	ND		2060	1520	74	1950	1310	67	15	25-135/41
132-64-9	Dibenzofuran	ND		2060	1570	76	1950	1410	72	11	30-125/35
84-74-2	Di-n-butyl phthalate	ND		2060	1730	84	1950	1550	79	11	32-131/34
117-84-0	Di-n-octyl phthalate	ND		2060	2090	102	1950	1880	96	11	28-144/35
84-66-2	Diethyl phthalate	126		2060	1790	81	1950	1570	74	13	35-124/32
131-11-3	Dimethyl phthalate	ND		2060	1560	76	1950	1410	72	10	36-121/33
117-81-7	bis(2-Ethylhexyl)phthalate	58.3	J	2060	1920	91	1950	1710	85	12	25-146/35
206-44-0	Fluoranthene	ND		2060	1500	73	1950	1340	69	11	15-143/46
86-73-7	Fluorene	ND		2060	1550	75	1950	1420	73	9	30-129/37
118-74-1	Hexachlorobenzene	ND		2060	1390	68	1950	1250	64	11	34-125/34
87-68-3	Hexachlorobutadiene	ND		2060	1630	79	1950	1520	78	7	29-120/34
77-47-4	Hexachlorocyclopentadiene	ND		4110	1450	35	3900	1210	31	18	10-127/46
67-72-1	Hexachloroethane	ND		2060	1400	68	1950	1280	66	9	21-109/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2060	1630	79	1950	1450	74	12	23-141/44
78-59-1	Isophorone	ND		2060	1640	80	1950	1490	76	10	31-124/32
90-12-0	1-Methylnaphthalene	ND		2060	1520	74	1950	1380	71	10	24-122/33
91-57-6	2-Methylnaphthalene	ND		2060	1500	73	1950	1370	70	9	21-125/33
88-74-4	2-Nitroaniline	ND		2060	2050	100	1950	1850	95	10	29-138/33
99-09-2	3-Nitroaniline	ND		2060	1030	50	1950	691	35	39* [a]	12-112/38
100-01-6	4-Nitroaniline	ND		2060	1290	63	1950	1140	58	12	21-117/38
98-95-3	Nitrobenzene	ND		2060	1570	76	1950	1420	73	10	28-118/32
621-64-7	N-Nitroso-di-n-propylamine	ND		2060	1580	77	1950	1420	73	11	26-121/34
86-30-6	N-Nitrosodiphenylamine	ND		2060	1710	83	1950	1530	78	11	24-142/35
85-01-8	Phenanthrene	ND		2060	1540	75	1950	1360	70	12	14-144/44
129-00-0	Pyrene	ND		2060	1820	89	1950	1630	84	11	16-147/46
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2060	1650	80	1950	1500	77	10	37-115/32

CAS No.	Surrogate Recoveries	MS	MSD	JC21230-2	Limits
367-12-4	2-Fluorophenol	68%	64%		30-106%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419-MS	6P26632.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236
OP94419-MSD	6P26633.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236
JC21230-2	6P26631.D	1	06/03/16	SB	06/02/16	OP94419	E6P1236

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

JC21229-1, JC21229-2

CAS No.	Surrogate Recoveries	MS	MSD	JC21230-2	Limits
4165-62-2	Phenol-d5	73%	67%		30-106%
118-79-6	2,4,6-Tribromophenol	72%	65%		24-140%
4165-60-0	Nitrobenzene-d5	78%	75%	81%	26-122%
321-60-8	2-Fluorobiphenyl	79%	73%	81%	36-112%
1718-51-0	Terphenyl-d14	84%	80%	89%	36-132%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94328A-MS	3M62048.D	1	06/08/16	AD	05/29/16	OP94328A	E3M2924
OP94328A-MSD	3M62049.D	1	06/08/16	AD	05/29/16	OP94328A	E3M2924
JC20992-2	3M62039.D	1	06/08/16	AD	05/29/16	OP94328A	E3M2924

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

JC21229-3, JC21229-4

CAS No.	Compound	JC20992-2 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	ND		2	2.19	110	2	0.432	22* a	134* b	23-140/36
123-91-1	1,4-Dioxane	ND		2	0.730	37	2	0.230	12* a	104* b	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC20992-2	Limits
367-12-4	2-Fluorophenol	53%	9%* a		14-81%
4165-62-2	Phenol-d5	46%	9%* a		11-54%
118-79-6	2,4,6-Tribromophenol	66%	21%* a		35-145%
4165-60-0	Nitrobenzene-d5	59%	11%* a	12%* c	24-125%
321-60-8	2-Fluorobiphenyl	67%	15%* a	17%* c	19-127%
1718-51-0	Terphenyl-d14	72%	21%	23%	10-119%

(a) Outside control limits due to matrix interference.
(b) Analytical precision exceeds in-house control limits.
(c) Outside control limits due to matrix interference, confirmed by MSD.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94419A-MS	4P16865.D	1	06/13/16	LK	06/02/16	OP94419A	E4P896
OP94419A-MSD	4P16866.D	1	06/13/16	LK	06/02/16	OP94419A	E4P896
JC21229-1	3M62168.D	1	06/11/16	JJ	06/02/16	OP94419A	E3M2930

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

JC21229-1, JC21229-2

CAS No.	Compound	JC21229-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		42.1	8.55	20* [a]	42.1	10.1	24* [a]	17	50-150/30
91-20-3	Naphthalene	ND		42.1	21.0	50	42.1	25.8	61	21	10-190/36

CAS No.	Surrogate Recoveries	MS	MSD	JC21229-1	Limits
4165-60-0	Nitrobenzene-d5	56%	65%	77%	15-138%
321-60-8	2-Fluorobiphenyl	75%	96%	89%	12-148%
1718-51-0	Terphenyl-d14	68%	80%	98%	10-157%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2887-DFTPP
Lab File ID: 3M61384.D
Instrument ID: GCMS3M
Injection Date: 05/17/16
Injection Time: 08:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	227219	38.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	310061	52.4		Pass
70	Less than 2.0% of mass 69	1471	0.25	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	300411	50.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	591701	100.0		Pass
199	5.0 - 9.0% of mass 198	40848	6.90		Pass
275	10.0 - 30.0% of mass 198	147552	24.9		Pass
365	1.0 - 100.0% of mass 198	16496	2.79		Pass
441	Present, but less than mass 443	77365	13.1	(84.8) [b]	Pass
442	40.0 - 100.0% of mass 198	455819	77.0		Pass
443	17.0 - 23.0% of mass 442	91195	15.4	(20.0) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2887-ICC2887	3M61387A.D	05/17/16	12:27	03:31	Initial cal 1
E3M2887-IC2887	3M61388A.D	05/17/16	12:59	04:03	Initial cal .5
E3M2887-IC2887	3M61390A.D	05/17/16	14:04	05:08	Initial cal .1
E3M2887-IC2887	3M61391A.D	05/17/16	14:36	05:40	Initial cal .05
E3M2887-IC2887	3M61393.D	05/17/16	15:41	06:45	Initial cal .01
E3M2887-IC2887	3M61394.D	05/17/16	16:13	07:17	Initial cal 5
E3M2887-IC2887	3M61395.D	05/17/16	16:46	07:50	Initial cal 2.5
E3M2887-IC2887	3M61389B.D	05/17/16	17:18	08:22	Initial cal .2
E3M2887-IC2887	3M61392B.D	05/17/16	18:08	09:12	Initial cal .02
E3M2887-ICV2887	3M61397.D	05/17/16	19:13	10:17	Initial cal verification 1
E3M2887-ICV2887	3M61398.D	05/17/16	19:45	10:49	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2888-DFTPP
Lab File ID: 3M61399.D
Instrument ID: GCMS3M
Injection Date: 05/18/16
Injection Time: 09:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	267029	39.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	357507	52.4		Pass
70	Less than 2.0% of mass 69	1860	0.27	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	345301	50.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	682517	100.0		Pass
199	5.0 - 9.0% of mass 198	47960	7.03		Pass
275	10.0 - 30.0% of mass 198	161619	23.7		Pass
365	1.0 - 100.0% of mass 198	18721	2.74		Pass
441	Present, but less than mass 443	91392	13.4	(84.3) [b]	Pass
442	40.0 - 100.0% of mass 198	550485	80.7		Pass
443	17.0 - 23.0% of mass 442	108472	15.9	(19.7) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2888-ICV2887	3M61400.D	05/18/16	09:12	00:12	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2915-DFTPP
Lab File ID: 3M61849.D
Instrument ID: GCMS3M
Injection Date: 06/01/16
Injection Time: 20:40

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	368155	41.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	475140	53.1		Pass
70	Less than 2.0% of mass 69	2047	0.23	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	459904	51.4		Pass
197	Less than 1.0% of mass 198	1975	0.22		Pass
198	Base peak, 100% relative abundance	895125	100.0		Pass
199	5.0 - 9.0% of mass 198	59651	6.66		Pass
275	10.0 - 30.0% of mass 198	198389	22.2		Pass
365	1.0 - 100.0% of mass 198	21363	2.39		Pass
441	Present, but less than mass 443	96811	10.8	(82.8) [b]	Pass
442	40.0 - 100.0% of mass 198	620800	69.4		Pass
443	17.0 - 23.0% of mass 442	116923	13.1	(18.8) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2915-CC2887	3M61850.D	06/01/16	20:59	00:19	Continuing cal 1.0
OP94327A-MB1	3M61851.D	06/01/16	21:55	01:15	Method Blank
ZZZZZZ	3M61852.D	06/01/16	22:27	01:47	(unrelated sample)
ZZZZZZ	3M61853.D	06/01/16	23:00	02:20	(unrelated sample)
ZZZZZZ	3M61854.D	06/01/16	23:32	02:52	(unrelated sample)
OP94328A-MB1	3M61855.D	06/02/16	00:04	03:24	Method Blank
OP94328A-BS12	3M61856.D	06/02/16	00:36	03:56	Blank Spike
JC21229-3	3M61859.D	06/02/16	02:12	05:32	SB102-GWD
JC21229-4	3M61860.D	06/02/16	02:44	06:04	BPEB-30
ZZZZZZ	3M61861.D	06/02/16	03:16	06:36	(unrelated sample)
ZZZZZZ	3M61862.D	06/02/16	03:48	07:08	(unrelated sample)
ZZZZZZ	3M61863.D	06/02/16	04:20	07:40	(unrelated sample)
ZZZZZZ	3M61864.D	06/02/16	04:52	08:12	(unrelated sample)
ZZZZZZ	3M61865.D	06/02/16	05:24	08:44	(unrelated sample)
ZZZZZZ	3M61866.D	06/02/16	05:56	09:16	(unrelated sample)
ZZZZZZ	3M61867.D	06/02/16	06:28	09:48	(unrelated sample)
ZZZZZZ	3M61868.D	06/02/16	06:59	10:19	(unrelated sample)
ZZZZZZ	3M61869.D	06/02/16	07:31	10:51	(unrelated sample)
ZZZZZZ	3M61870.D	06/02/16	08:03	11:23	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2924-DFTPP
Lab File ID: 3M62036.D
Instrument ID: GCMS3M
Injection Date: 06/07/16
Injection Time: 22:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	240513	39.3		Pass
68	Less than 2.0% of mass 69	1834	0.30	(0.58) [a]	Pass
69	Mass 69 relative abundance	313669	51.2		Pass
70	Less than 2.0% of mass 69	3159	0.52	(1.01) [a]	Pass
127	40.0 - 60.0% of mass 198	311936	50.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	612608	100.0		Pass
199	5.0 - 9.0% of mass 198	37437	6.11		Pass
275	10.0 - 30.0% of mass 198	138845	22.7		Pass
365	1.0 - 100.0% of mass 198	13466	2.20		Pass
441	Present, but less than mass 443	40499	6.61	(45.9) [b]	Pass
442	40.0 - 100.0% of mass 198	449917	73.4		Pass
443	17.0 - 23.0% of mass 442	88293	14.4	(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
E3M2924-CC2887	3M62037.D	06/07/16	22:52	00:14	Continuing cal 0.5
OP94328A-MB1	3M62046.D	06/07/16	23:26	00:48	Method Blank
OP94328A-BS12	3M62047.D	06/07/16	23:58	01:20	Blank Spike
OP94328A-MS	3M62048.D	06/08/16	00:31	01:53	Matrix Spike
OP94328A-MSD	3M62049.D	06/08/16	01:03	02:25	Matrix Spike Duplicate
JC20992-2	3M62039.D	06/08/16	02:07	03:29	(used for QC only; not part of job JC21229)
ZZZZZZ	3M62041.D	06/08/16	03:11	04:33	(unrelated sample)
ZZZZZZ	3M62042.D	06/08/16	03:43	05:05	(unrelated sample)
ZZZZZZ	3M62043.D	06/08/16	04:15	05:37	(unrelated sample)
ZZZZZZ	3M62044.D	06/08/16	04:47	06:09	(unrelated sample)
ZZZZZZ	3M62045.D	06/08/16	05:19	06:41	(unrelated sample)
ZZZZZZ	3M62050.D	06/08/16	05:51	07:13	(unrelated sample)
OP94306A-MB1	3M62051.D	06/08/16	06:22	07:44	Method Blank
ZZZZZZ	3M62052.D	06/08/16	06:54	08:16	(unrelated sample)
ZZZZZZ	3M62053.D	06/08/16	07:26	08:48	(unrelated sample)
ZZZZZZ	3M62054.D	06/08/16	07:58	09:20	(unrelated sample)
ZZZZZZ	3M62055.D	06/08/16	08:30	09:52	(unrelated sample)
ZZZZZZ	3M62056.D	06/08/16	09:02	10:24	(unrelated sample)
ZZZZZZ	3M62057.D	06/08/16	09:34	10:56	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E3M2924-DFTPP	**Injection Date:**	06/07/16
Lab File ID:	3M62036.D	**Injection Time:**	22:38
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3M62058.D	06/08/16	10:06	11:28	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2930-DFTPP
Lab File ID: 3M62146.D
Instrument ID: GCMS3M
Injection Date: 06/10/16
Injection Time: 20:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	323739	41.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	412956	53.1		Pass
70	Less than 2.0% of mass 69	1226	0.16	(0.30) [a]	Pass
127	40.0 - 60.0% of mass 198	397848	51.2		Pass
197	Less than 1.0% of mass 198	3174	0.41		Pass
198	Base peak, 100% relative abundance	777323	100.0		Pass
199	5.0 - 9.0% of mass 198	51112	6.58		Pass
275	10.0 - 30.0% of mass 198	177221	22.8		Pass
365	1.0 - 100.0% of mass 198	18811	2.42		Pass
441	Present, but less than mass 443	98712	12.7	(87.5) [b]	Pass
442	40.0 - 100.0% of mass 198	577067	74.2		Pass
443	17.0 - 23.0% of mass 442	112776	14.5	(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
E3M2930-CC2887	3M62147.D	06/10/16	20:54	00:21	Continuing cal 0.5
OP94470A-MB1	3M62155.D	06/11/16	01:16	04:43	Method Blank
OP94470A-BS12	3M62156.D	06/11/16	01:48	05:15	Blank Spike
OP94470A-MS	3M62157.D	06/11/16	02:20	05:47	Matrix Spike
OP94470A-MSD	3M62158.D	06/11/16	02:51	06:18	Matrix Spike Duplicate
JC21261-2	3M62159.D	06/11/16	03:23	06:50	(used for QC only; not part of job JC21229)
ZZZZZZ	3M62160.D	06/11/16	03:55	07:22	(unrelated sample)
OP94471A-MB1	3M62161.D	06/11/16	04:27	07:54	Method Blank
OP94471A-BS12	3M62162.D	06/11/16	04:59	08:26	Blank Spike
OP94471A-MS	3M62163.D	06/11/16	05:31	08:58	Matrix Spike
OP94471A-MSD	3M62164.D	06/11/16	06:02	09:29	Matrix Spike Duplicate
JC21347-2	3M62165.D	06/11/16	06:34	10:01	(used for QC only; not part of job JC21229)
OP94419A-MB1	3M62166.D	06/11/16	07:06	10:33	Method Blank
OP94419A-BS12	3M62167.D	06/11/16	07:38	11:05	Blank Spike
JC21229-1	3M62168.D	06/11/16	08:09	11:36	SB102 (5.5-6.5)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4P887-DFTPP
Lab File ID: 4P16668.D
Instrument ID: GCMS4P
Injection Date: 06/06/16
Injection Time: 09:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65770	46.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	75046	52.9		Pass
70	Less than 2.0% of mass 69	350	0.25	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	74929	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	141872	100.0		Pass
199	5.0 - 9.0% of mass 198	9305	6.56		Pass
275	10.0 - 30.0% of mass 198	26127	18.4		Pass
365	1.0 - 100.0% of mass 198	2425	1.71		Pass
441	Present, but less than mass 443	12236	8.62	(83.1) [b]	Pass
442	40.0 - 100.0% of mass 198	79101	55.8		Pass
443	17.0 - 23.0% of mass 442	14730	10.4	(18.6) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4P887-IC887	4P16669.D	06/06/16	10:09	00:12	Initial cal .5
E4P887-ICC887	4P16670.D	06/06/16	10:50	00:53	Initial cal 1
E4P887-IC887	4P16671.D	06/06/16	11:20	01:23	Initial cal .2
E4P887-IC887	4P16672.D	06/06/16	11:50	01:53	Initial cal .1
E4P887-IC887	4P16673.D	06/06/16	12:19	02:22	Initial cal .05
E4P887-IC887	4P16674.D	06/06/16	12:49	02:52	Initial cal .02
E4P887-IC887	4P16675.D	06/06/16	13:19	03:22	Initial cal .01
E4P887-IC887	4P16676.D	06/06/16	13:49	03:52	Initial cal 5
E4P887-IC887	4P16677.D	06/06/16	14:19	04:22	Initial cal 2.5
E4P887-ICV887	4P16678.D	06/06/16	14:49	04:52	Initial cal verification 1
E4P887-ICV887	4P16679.D	06/06/16	15:19	05:22	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E4P896-DFTPP
Lab File ID: 4P16859.D
Instrument ID: GCMS4P
Injection Date: 06/13/16
Injection Time: 08:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	81504	41.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	99626	51.0		Pass
70	Less than 2.0% of mass 69	413	0.21	(0.41) [a]	Pass
127	40.0 - 60.0% of mass 198	98118	50.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	195488	100.0		Pass
199	5.0 - 9.0% of mass 198	13071	6.69		Pass
275	10.0 - 30.0% of mass 198	36988	18.9		Pass
365	1.0 - 100.0% of mass 198	3439	1.76		Pass
441	Present, but less than mass 443	10985	5.62	(47.6) [b]	Pass
442	40.0 - 100.0% of mass 198	119255	61.0		Pass
443	17.0 - 23.0% of mass 442	23070	11.8	(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
E4P896-CC887	4P16862.D	06/13/16	09:43	00:52	Continuing cal 1
OP94419A-MB1	4P16863.D	06/13/16	10:14	01:23	Method Blank
JC21229-2	4P16864.D	06/13/16	10:44	01:53	SB102 (7-8)
OP94419A-MS	4P16865.D	06/13/16	11:14	02:23	Matrix Spike
OP94419A-MSD	4P16866.D	06/13/16	11:44	02:53	Matrix Spike Duplicate
ZZZZZZ	4P16867.D	06/13/16	12:13	03:22	(unrelated sample)
ZZZZZZ	4P16868.D	06/13/16	12:43	03:52	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	118557	54.8		Pass
68	Less than 2.0% of mass 69	1119	0.52	(0.93) [a]	Pass
69	Mass 69 relative abundance	120494	55.7		Pass
70	Less than 2.0% of mass 69	996	0.46	(0.83) [a]	Pass
127	40.0 - 60.0% of mass 198	126024	58.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	216184	100.0		Pass
199	5.0 - 9.0% of mass 198	14389	6.66		Pass
275	10.0 - 30.0% of mass 198	64576	29.9		Pass
365	1.0 - 100.0% of mass 198	9081	4.20		Pass
441	Present, but less than mass 443	28875	13.4	(79.7) [b]	Pass
442	40.0 - 100.0% of mass 198	185597	85.9		Pass
443	17.0 - 23.0% of mass 442	36212	16.8	(19.5) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1209-IC1209	6P25924.D	05/13/16	09:24	00:12	Initial cal 2
E6P1209-IC1209	6P25925.D	05/13/16	09:53	00:41	Initial cal 1
E6P1209-IC1209	6P25926.D	05/13/16	10:20	01:08	Initial cal 100
E6P1209-IC1209	6P25927.D	05/13/16	10:47	01:35	Initial cal 80
E6P1209-ICC1209	6P25928.D	05/13/16	11:15	02:03	Initial cal 50
E6P1209-IC1209	6P25929.D	05/13/16	11:42	02:30	Initial cal 25
E6P1209-IC1209	6P25930.D	05/13/16	12:09	02:57	Initial cal 10
E6P1209-IC1209	6P25931.D	05/13/16	12:36	03:24	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	89165	43.1		Pass
68	Less than 2.0% of mass 69	207	0.10	(0.22) [a]	Pass
69	Mass 69 relative abundance	93133	45.0		Pass
70	Less than 2.0% of mass 69	404	0.20	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	109826	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	206826	100.0		Pass
199	5.0 - 9.0% of mass 198	14852	7.18		Pass
275	10.0 - 30.0% of mass 198	54986	26.6		Pass
365	1.0 - 100.0% of mass 198	7287	3.52		Pass
441	Present, but less than mass 443	22871	11.1	(84.5) [b]	Pass
442	40.0 - 100.0% of mass 198	139682	67.5		Pass
443	17.0 - 23.0% of mass 442	27080	13.1	(19.4) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1210-IC1210	6P25938.D	05/13/16	14:45	00:20	Initial cal 100
E6P1210-IC1210	6P25939.D	05/13/16	15:12	00:47	Initial cal 80
E6P1210-ICC1210	6P25940.D	05/13/16	15:40	01:15	Initial cal 50
E6P1210-IC1210	6P25941.D	05/13/16	16:07	01:42	Initial cal 25
E6P1210-IC1210	6P25942.D	05/13/16	16:35	02:10	Initial cal 10
E6P1210-IC1210	6P25943.D	05/13/16	17:02	02:37	Initial cal 5
E6P1210-IC1210	6P25944.D	05/13/16	17:30	03:05	Initial cal 2
E6P1210-IC1210	6P25945.D	05/13/16	17:57	03:32	Initial cal 1
E6P1210-ICV1209	6P25950.D	05/13/16	20:14	05:49	Initial cal verification 50
E6P1210-ICV1210	6P25950A.D	05/13/16	20:14	05:49	Initial cal verification 50
E6P1210-ICV1209	6P25951.D	05/13/16	20:42	06:17	Initial cal verification 50
E6P1210-ICV1210	6P25952.D	05/13/16	21:09	06:44	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	125051	47.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	127610	48.5		Pass
70	Less than 2.0% of mass 69	625	0.24	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	144274	54.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	262997	100.0		Pass
199	5.0 - 9.0% of mass 198	16343	6.21		Pass
275	10.0 - 30.0% of mass 198	68986	26.2		Pass
365	1.0 - 100.0% of mass 198	7608	2.89		Pass
441	Present, but less than mass 443	24632	9.37	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	158754	60.4		Pass
443	17.0 - 23.0% of mass 442	30379	11.6	(19.1) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1211-ICV1209	6P25954.D	05/16/16	09:15	00:16	Initial cal verification 50
E6P1211-ICV1209	6P25955.D	05/16/16	09:42	00:43	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	129527	47.4		Pass
68	Less than 2.0% of mass 69	932	0.34	(0.67) [a]	Pass
69	Mass 69 relative abundance	138190	50.6		Pass
70	Less than 2.0% of mass 69	775	0.28	(0.56) [a]	Pass
127	40.0 - 60.0% of mass 198	148557	54.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	273010	100.0		Pass
199	5.0 - 9.0% of mass 198	18218	6.67		Pass
275	10.0 - 30.0% of mass 198	70571	25.8		Pass
365	1.0 - 100.0% of mass 198	8697	3.19		Pass
441	Present, but less than mass 443	23976	8.78	(76.8) [b]	Pass
442	40.0 - 100.0% of mass 198	151981	55.7		Pass
443	17.0 - 23.0% of mass 442	31207	11.4	(20.5) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1212-ICV1209	6P25959.D	05/16/16	11:13	00:13	Initial cal verification 50
E6P1212-ICV1209	6P25960.D	05/16/16	11:40	00:40	Initial cal verification 50
E6P1212-ICV1210	6P25960A.D	05/16/16	11:40	00:40	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1232-DFTPP
Lab File ID: 6P26489.D
Instrument ID: GCMS6P
Injection Date: 05/31/16
Injection Time: 08:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	112856	53.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	116723	55.6		Pass
70	Less than 2.0% of mass 69	856	0.41	(0.73) [a]	Pass
127	40.0 - 60.0% of mass 198	116768	55.6		Pass
197	Less than 1.0% of mass 198	456	0.22		Pass
198	Base peak, 100% relative abundance	209834	100.0		Pass
199	5.0 - 9.0% of mass 198	13292	6.33		Pass
275	10.0 - 30.0% of mass 198	48063	22.9		Pass
365	1.0 - 100.0% of mass 198	5247	2.50		Pass
441	Present, but less than mass 443	18268	8.71	(87.5) [b]	Pass
442	40.0 - 100.0% of mass 198	115734	55.2		Pass
443	17.0 - 23.0% of mass 442	20870	9.95	(18.0) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1232-CC1209	6P26490.D	05/31/16	08:50	00:12	Continuing cal 50
E6P1232-CC1210	6P26491.D	05/31/16	09:17	00:39	Continuing cal 50
OP94328-MB1	6P26492.D	05/31/16	09:44	01:06	Method Blank
OP94328-BS1	6P26493.D	05/31/16	10:12	01:34	Blank Spike
JC21229-3	6P26494.D	05/31/16	10:39	02:01	SB102-GWD
JC21229-4	6P26495.D	05/31/16	11:06	02:28	BPEB-30
ZZZZZZ	6P26496.D	05/31/16	11:33	02:55	(unrelated sample)
ZZZZZZ	6P26497.D	05/31/16	12:01	03:23	(unrelated sample)
OP94328-MS	6P26498.D	05/31/16	12:28	03:50	Matrix Spike
ZZZZZZ	6P26501.D	05/31/16	12:56	04:18	(unrelated sample)
ZZZZZZ	6P26502.D	05/31/16	13:23	04:45	(unrelated sample)
ZZZZZZ	6P26503.D	05/31/16	13:51	05:13	(unrelated sample)
ZZZZZZ	6P26504.D	05/31/16	14:18	05:40	(unrelated sample)
ZZZZZZ	6P26517.D	05/31/16	14:45	06:07	(unrelated sample)
ZZZZZZ	6P26518.D	05/31/16	15:13	06:35	(unrelated sample)
ZZZZZZ	6P26519.D	05/31/16	15:40	07:02	(unrelated sample)
ZZZZZZ	6P26520.D	05/31/16	16:08	07:30	(unrelated sample)
ZZZZZZ	6P26521.D	05/31/16	16:35	07:57	(unrelated sample)
OP94328-MSD	6P26499.D	05/31/16	17:03	08:25	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E6P1232-DFTPP	**Injection Date:**	05/31/16
Lab File ID:	6P26489.D	**Injection Time:**	08:38
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC20992-1	6P26500.D	05/31/16	17:30	08:52	(used for QC only; not part of job JC21229)
ZZZZZZ	6P26508.D	05/31/16	17:58	09:20	(unrelated sample)
ZZZZZZ	6P26509.D	05/31/16	18:25	09:47	(unrelated sample)
ZZZZZZ	6P26512.D	05/31/16	18:53	10:15	(unrelated sample)
ZZZZZZ	6P26513.D	05/31/16	19:20	10:42	(unrelated sample)
ZZZZZZ	6P26514.D	05/31/16	19:48	11:10	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1236-DFTPP
Lab File ID: 6P26622.D
Instrument ID: GCMS6P
Injection Date: 06/02/16
Injection Time: 22:20

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	114677	54.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	117055	55.8		Pass
70	Less than 2.0% of mass 69	254	0.12	(0.22) [a]	Pass
127	40.0 - 60.0% of mass 198	119440	57.0		Pass
197	Less than 1.0% of mass 198	209	0.10		Pass
198	Base peak, 100% relative abundance	209626	100.0		Pass
199	5.0 - 9.0% of mass 198	13575	6.48		Pass
275	10.0 - 30.0% of mass 198	52888	25.2		Pass
365	1.0 - 100.0% of mass 198	6644	3.17		Pass
441	Present, but less than mass 443	22436	10.7	(81.8) [b]	Pass
442	40.0 - 100.0% of mass 198	141008	67.3		Pass
443	17.0 - 23.0% of mass 442	27424	13.1	(19.4) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1236-CC1209	6P26623.D	06/02/16	22:35	00:15	Continuing cal 50
E6P1236-CC1210	6P26624.D	06/02/16	23:02	00:42	Continuing cal 50
OP94417-MB1	6P26626.D	06/02/16	23:57	01:37	Method Blank
OP94417-BS1	6P26627.D	06/03/16	00:24	02:04	Blank Spike
OP94419-MB1	6P26628.D	06/03/16	00:51	02:31	Method Blank
OP94419-BS1	6P26629.D	06/03/16	01:18	02:58	Blank Spike
ZZZZZZ	6P26630.D	06/03/16	01:46	03:26	(unrelated sample)
JC21230-2	6P26631.D	06/03/16	02:13	03:53	(used for QC only; not part of job JC21229)
OP94419-MS	6P26632.D	06/03/16	02:40	04:20	Matrix Spike
OP94419-MSD	6P26633.D	06/03/16	03:07	04:47	Matrix Spike Duplicate
ZZZZZZ	6P26634.D	06/03/16	03:34	05:14	(unrelated sample)
ZZZZZZ	6P26635.D	06/03/16	04:01	05:41	(unrelated sample)
ZZZZZZ	6P26636.D	06/03/16	04:27	06:07	(unrelated sample)
ZZZZZZ	6P26638.D	06/03/16	05:21	07:01	(unrelated sample)
JC21099-11	6P26639.D	06/03/16	05:48	07:28	(used for QC only; not part of job JC21229)
OP94417-MS2	6P26640.D	06/03/16	06:15	07:55	Matrix Spike
OP94417-MSD2	6P26641.D	06/03/16	06:42	08:22	Matrix Spike Duplicate
ZZZZZZ	6P26642.D	06/03/16	07:09	08:49	(unrelated sample)
ZZZZZZ	6P26643.D	06/03/16	07:36	09:16	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	E6P1236-DFTPP	**Injection Date:**	06/02/16
Lab File ID:	6P26622.D	**Injection Time:**	22:20
Instrument ID:	GCMS6P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P26644.D	06/03/16	08:29	10:09	(unrelated sample)
JC21099-2	6P26645.D	06/03/16	08:56	10:36	(used for QC only; not part of job JC21229)
OP94417-MS	6P26646.D	06/03/16	09:23	11:03	Matrix Spike
OP94417-MSD	6P26647.D	06/03/16	09:50	11:30	Matrix Spike Duplicate
ZZZZZZ	6P26651.D	06/03/16	10:17	11:57	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1239-DFTPP
Lab File ID: 6P26699.D
Instrument ID: GCMS6P
Injection Date: 06/06/16
Injection Time: 08:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	141405	48.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	143577	49.3		Pass
70	Less than 2.0% of mass 69	1244	0.43	(0.87) [a]	Pass
127	40.0 - 60.0% of mass 198	152671	52.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	291029	100.0		Pass
199	5.0 - 9.0% of mass 198	17978	6.18		Pass
275	10.0 - 30.0% of mass 198	69589	23.9		Pass
365	1.0 - 100.0% of mass 198	8628	2.96		Pass
441	Present, but less than mass 443	30232	10.4	(84.4) [b]	Pass
442	40.0 - 100.0% of mass 198	181290	62.3		Pass
443	17.0 - 23.0% of mass 442	35815	12.3	(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
E6P1239-CC1209	6P26700.D	06/06/16	08:44	00:12	Continuing cal 25
E6P1239-CC1210	6P26701.D	06/06/16	09:11	00:39	Continuing cal 25
OP94462-MB1	6P26703.D	06/06/16	10:06	01:34	Method Blank
OP94462-BS1	6P26704.D	06/06/16	10:33	02:01	Blank Spike
OP94462-MS	6P26729.D	06/06/16	11:00	02:28	Matrix Spike
OP94462-MSD	6P26730.D	06/06/16	11:55	03:23	Matrix Spike Duplicate
ZZZZZZ	6P26705.D	06/06/16	12:22	03:50	(unrelated sample)
ZZZZZZ	6P26706.D	06/06/16	12:49	04:17	(unrelated sample)
ZZZZZZ	6P26707.D	06/06/16	13:17	04:45	(unrelated sample)
ZZZZZZ	6P26708.D	06/06/16	13:44	05:12	(unrelated sample)
ZZZZZZ	6P26709.D	06/06/16	14:12	05:40	(unrelated sample)
ZZZZZZ	6P26710.D	06/06/16	14:39	06:07	(unrelated sample)
ZZZZZZ	6P26711.D	06/06/16	15:07	06:35	(unrelated sample)
JC21229-1	6P26712.D	06/06/16	15:34	07:02	SB102 (5.5-6.5)
JC21229-2	6P26713.D	06/06/16	16:01	07:29	SB102 (7-8)
ZZZZZZ	6P26714.D	06/06/16	16:29	07:57	(unrelated sample)
ZZZZZZ	6P26715.D	06/06/16	16:56	08:24	(unrelated sample)
ZZZZZZ	6P26716.D	06/06/16	17:24	08:52	(unrelated sample)
ZZZZZZ	6P26717.D	06/06/16	17:51	09:19	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E6P1239-DFTPP
Lab File ID: 6P26699.D
Instrument ID: GCMS6P
Injection Date: 06/06/16
Injection Time: 08:32

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P26718.D	06/06/16	18:19	09:47	(unrelated sample)
ZZZZZZ	6P26719.D	06/06/16	18:46	10:14	(unrelated sample)
ZZZZZZ	6P26721.D	06/06/16	19:41	11:09	(unrelated sample)
ZZZZZZ	6P26722.D	06/06/16	20:08	11:36	(unrelated sample)
JC21393-1	6P26731.D	06/06/16	23:21	14:49	(used for QC only; not part of job JC21229)
ZZZZZZ	6P26732.D	06/06/16	23:48	15:16	(unrelated sample)
ZZZZZZ	6P26733.D	06/07/16	00:15	15:43	(unrelated sample)
ZZZZZZ	6P26734.D	06/07/16	00:43	16:11	(unrelated sample)
ZZZZZZ	6P26735.D	06/07/16	01:10	16:38	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2915-CC2887	**Injection Date:**	06/01/16
Lab File ID:	3M61850.D	**Injection Time:**	20:59
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	759563	10.14	1058031	13.15	1799667	17.37	1378403	21.99
Upper Limit [a]	1519126	10.64	2116062	13.65	3599334	17.87	2756806	22.49
Lower Limit [b]	379782	9.64	529016	12.65	899834	16.87	689202	21.49

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94327A-MB1	859885	10.14	1148881	13.15	1937843	17.37	1563031	22.01
ZZZZZZ	877600	10.14	1180456	13.13	1951411	17.37	1548651	21.99
ZZZZZZ	953453	10.14	1429018	13.15	2362309	17.39	1904037	22.01
ZZZZZZ	1118806	10.18	1655363	13.19	2250597	17.42	1628688	22.02
OP94328A-MB1	1032118	10.14	1394130	13.13	2358489	17.37	1758480	21.99
OP94328A-BS12	961421	10.14	1277385	13.13	2122953	17.37	1624553	21.99
JC21229-3	974769	10.14	1332528	13.13	2229911	17.37	1699714	21.99
JC21229-4	959007	10.14	1245580	13.13	2147960	17.37	1561091	21.99
ZZZZZZ	821203	10.14	1106144	13.13	1850347	17.37	1401870	21.99
ZZZZZZ	890979	10.14	1151830	13.13	1939063	17.37	1442969	21.99
ZZZZZZ	806407	10.14	1033951	13.13	1744113	17.37	1278972	21.99
ZZZZZZ	853761	10.14	1144038	13.13	1942069	17.37	1429118	21.99
ZZZZZZ	925969	10.14	1223965	13.13	1987698	17.37	1468427	21.99
ZZZZZZ	890953	10.14	1127586	13.13	1843357	17.37	1313642	21.99
ZZZZZZ	917556	10.14	1196652	13.13	1896987	17.37	1426603	21.99
ZZZZZZ	870455	10.14	1109858	13.13	1710805	17.37	1311663	21.99
ZZZZZZ	849844	10.14	1139956	13.13	1768396	17.37	1370868	21.99
ZZZZZZ	990143	10.14	1302831	13.13	1944814	17.37	1561913	21.99

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: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2924-CC2887	**Injection Date:**	06/07/16
Lab File ID:	3M62037.D	**Injection Time:**	22:52
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	527078	10.18	805057	13.17	1282038	17.40	1130232	22.04
Upper Limit [a]	1054156	10.68	1610114	13.67	2564076	17.90	2260464	22.54
Lower Limit [b]	263539	9.68	402529	12.67	641019	16.90	565116	21.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94328A-MB1	516295	10.16	783629	13.17	1283474	17.40	1023629	22.04
OP94328A-BS12	567910	10.16	855474	13.17	1325642	17.40	1032353	22.04
OP94328A-MS	452525	10.16	726458	13.17	1120301	17.42	795931	22.04
OP94328A-MSD	541196	10.16	857281	13.17	1356623	17.40	1079232	22.04
JC20992-2	546298	10.18	903739	13.17	1309315	17.42	1090297	22.04
ZZZZZZ	662835	10.18	982385	13.17	1082353	17.42	948811	22.05
ZZZZZZ	369157	10.18	551655	13.17	848953	17.40	758637	22.04
ZZZZZZ	454877	10.18	679810	13.17	1050758	17.42	914982	22.05
ZZZZZZ	477374	10.18	974788	13.19	931006	17.43	775895	22.05
ZZZZZZ	423131	10.18	623876	13.17	986911	17.42	833787	22.05
ZZZZZZ	382324	10.16	729604	13.17	979177	17.45	804490	22.05
OP94306A-MB1	517729	10.18	892917	13.17	1399574	17.40	1113041	22.04
ZZZZZZ	424515	10.16	667107	13.17	999217	17.40	873909	22.04
ZZZZZZ	475458	10.16	799256	13.17	1260047	17.40	980088	22.04
ZZZZZZ	459048	10.16	786088	13.17	1212959	17.40	944467	22.04
ZZZZZZ	534274	10.16	870839	13.17	1356296	17.40	1052148	22.04
ZZZZZZ	376551	10.16	608872	13.17	975310	17.40	755365	22.04
ZZZZZZ	429783	10.16	685719	13.17	1091235	17.40	872059	22.04
ZZZZZZ	456048	10.16	732347	13.17	1160837	17.40	863870	22.04

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: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M2930-CC2887	**Injection Date:**	06/10/16
Lab File ID:	3M62147.D	**Injection Time:**	20:54
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	871013	10.16	1068108	13.17	1746157	17.40	1477786	22.04
Upper Limit [a]	1742026	10.66	2136216	13.67	3492314	17.90	2955572	22.54
Lower Limit [b]	435507	9.66	534054	12.67	873079	16.90	738893	21.54

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94470A-MB1	763347	10.20	938275	13.21	1546647	17.46	1493116	22.11
OP94470A-BS12	672649	10.20	830498	13.21	1289502	17.46	1232049	22.11
OP94470A-MS	610842	10.20	825284	13.21	1277921	17.46	1198693	22.10
OP94470A-MSD	594154	10.20	783167	13.21	1285480	17.45	1199530	22.10
JC21261-2	586663	10.20	842960	13.21	1374179	17.45	1269236	22.10
ZZZZZZ	559002	10.20	767933	13.21	1276152	17.45	1179851	22.10
OP94471A-MB1	605657	10.18	847178	13.21	1380621	17.45	1260453	22.10
OP94471A-BS12	512240	10.18	688718	13.19	1163091	17.45	1072474	22.10
OP94471A-MS	538492	10.18	714733	13.19	1187875	17.45	1112794	22.08
OP94471A-MSD	521157	10.18	684537	13.19	1105473	17.45	1029085	22.08
JC21347-2	502631	10.18	707711	13.19	1122478	17.45	1044712	22.08
OP94419A-MB1	550097	10.18	728814	13.19	1124104	17.45	1091708	22.08
OP94419A-BS12	580691	10.18	755479	13.19	1217487	17.45	1170004	22.08
JC21229-1	593431	10.18	795195	13.19	1187017	17.43	1146283	22.08

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: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E4P896-CC887	**Injection Date:**	06/13/16
Lab File ID:	4P16862.D	**Injection Time:**	09:43
Instrument ID:	GCMS4P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	168592	7.72	179722	10.66	293144	14.87	209783	19.49
Upper Limit [a]	337184	8.22	359444	11.16	586288	15.37	419566	19.99
Lower Limit [b]	84296	7.22	89861	10.16	146572	14.37	104892	18.99

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94419A-MB1	218096	7.72	211255	10.66	329752	14.87	217653	19.49
JC21229-2 [c]	221684	7.71	227138	10.66	360693	14.85	229219	19.49
OP94419A-MS	188216	7.72	185570	10.66	311931	14.87	193261	19.49
OP94419A-MSD	212156	7.72	199846	10.66	344251	14.87	216592	19.49
ZZZZZZ	275168	7.72	372511*	10.66	421116	14.88	281388	19.49
ZZZZZZ	190187	7.71	255905	10.66	344778	14.87	247064	19.49

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Elevated detection limit due to low volume of bad matrix sample extracted.

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E6P1232-CC1209	**Injection Date:**	05/31/16
Lab File ID:	6P26490.D	**Injection Time:**	08:50
Instrument ID:	GCMS6P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	488202	4.76	1987841	5.87	1121469	7.97	1847066	10.16	1722913	14.36	1455248	16.47
Upper Limit [a]	976404	5.26	3975682	6.37	2242938	8.47	3694132	10.66	3445826	14.86	2910496	16.97
Lower Limit [b]	244101	4.26	993921	5.37	560735	7.47	923533	9.66	861457	13.86	727624	15.97

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
OP94328-MB1	508251	4.76	2064659	5.87	1128637	7.96	1857004	10.15	1659792	14.35	1382977	16.46
OP94328-BS1	491744	4.76	1925303	5.87	1009219	7.96	1634974	10.15	1452310	14.35	1236503	16.47
JC21229-3	464082	4.76	1865581	5.87	1005122	7.96	1672324	10.15	1536810	14.35	1398539	16.46
JC21229-4	488437	4.76	1937030	5.87	1052396	7.97	1740081	10.15	1527898	14.35	1378827	16.47
ZZZZZZ	474904	4.76	1914344	5.87	1027357	7.96	1688552	10.16	1386209	14.36	1276980	16.47
ZZZZZZ	519266	4.76	2083351	5.87	1134708	7.97	1858454	10.15	1627899	14.35	1471516	16.47
OP94328-MS	397502	4.76	1595092	5.87	801893	7.96	1239304	10.16	1030707	14.35	890065	16.47
ZZZZZZ	460733	4.76	1886090	5.87	1060431	7.96	1728461	10.15	1542854	14.35	1365980	16.47
ZZZZZZ	468649	4.76	1881982	5.87	1055132	7.96	1720622	10.15	1500691	14.35	1345470	16.46
ZZZZZZ	422321	4.76	1710692	5.87	954086	7.97	1572100	10.15	1394344	14.35	1226947	16.46
ZZZZZZ	443630	4.76	1791557	5.87	987361	7.96	1607081	10.15	1400692	14.35	1275599	16.46
ZZZZZZ	504037	4.76	2028875	5.87	1132347	7.96	1859462	10.15	1690440	14.35	1483359	16.46
ZZZZZZ	475756	4.76	1930176	5.87	1080374	7.96	1769826	10.15	1565481	14.35	1390194	16.46
ZZZZZZ	437756	4.76	1753934	5.87	988608	7.97	1592479	10.15	1429332	14.35	1286095	16.46
ZZZZZZ	456872	4.76	1862385	5.87	1030979	7.97	1683366	10.15	1509212	14.35	1348975	16.46
ZZZZZZ	456448	4.76	1874099	5.87	1049962	7.97	1700448	10.15	1534354	14.35	1371525	16.46
OP94328-MSD	513105	4.76	2029734	5.87	1032804	7.96	1613081	10.16	1382979	14.35	1211710	16.47
JC20992-1	400515	4.76	1584593	5.87	852530	7.97	1374209	10.15	1169804	14.35	1056309	16.46
ZZZZZZ	375527	4.76	1483798	5.87	802577	7.97	1182222	10.16	1046855	14.35	947754	16.47
ZZZZZZ	436784	4.76	1793696	5.87	995415	7.96	1624549	10.15	1371900	14.35	1101299	16.47
ZZZZZZ	580762	4.76	2286985	5.87	1214124	7.97	1766452	10.15	1301632	14.35	1161098	16.47
ZZZZZZ	503498	4.76	1966368	5.87	1029979	7.96	1525861	10.15	1125602	14.35	1091698	16.47
ZZZZZZ	521150	4.76	2057768	5.87	1095986	7.96	1685309	10.16	1352967	14.36	1297752	16.49

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E6P1236-CC1209	**Injection Date:**	06/02/16
Lab File ID:	6P26623.D	**Injection Time:**	22:35
Instrument ID:	GCMS6P	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	427428	4.79	1771820	5.90	1010029	8.00	1661918	10.19	1570075	14.39	1257976	16.51
Upper Limit [a]	854856	5.29	3543640	6.40	2020058	8.50	3323836	10.69	3140150	14.89	2515952	17.01
Lower Limit [b]	213714	4.29	885910	5.40	505015	7.50	830959	9.69	785038	13.89	628988	16.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP94417-MB1	530074	4.78	2188305	5.90	1219002	7.99	1932014	10.18	1664998	14.38	1404448	16.51
OP94417-BS1	484834	4.79	2216648	5.90	1089800	7.99	1697941	10.19	1518676	14.39	1219487	16.51
OP94419-MB1	438937	4.78	1791379	5.90	1004258	7.99	1618791	10.18	1373041	14.38	1183712	16.51
OP94419-BS1	508413	4.79	2105500	5.90	1151683	7.99	1843037	10.19	1615798	14.39	1308757	16.51
ZZZZZZ	528419	4.78	2101889	5.90	1148325	7.99	1741950	10.18	1256750	14.39	1153822	16.52
JC21230-2	473360	4.79	1963729	5.90	1043906	7.99	1589850	10.19	1169138	14.39	1058682	16.51
OP94419-MS	516004	4.79	2115339	5.90	1142627	8.00	1744488	10.20	1343963	14.39	1143735	16.51
OP94419-MSD	463437	4.79	1888567	5.90	1013427	8.00	1586465	10.19	1215743	14.39	1025438	16.51
ZZZZZZ	417560	4.79	1699272	5.90	936521	7.99	1459765	10.18	1121042	14.39	1071222	16.52
ZZZZZZ	377713	4.79	1542445	5.91	821171	8.00	1196014	10.20	977579	14.40	925970	16.53
ZZZZZZ	353405	4.79	1457783	5.90	807523	8.00	1269525	10.20	1225493	14.48	961155	16.54
ZZZZZZ	377487	4.79	1503835	5.90	812970	8.00	1282141	10.20	923450	14.39	852107	16.52
JC21099-11	416466	4.79	1728044	5.90	957874	8.00	1497549	10.20	1086946	14.39	1024745	16.52
OP94417-MS2	451867	4.79	2022155	5.91	1003006	8.00	1511559	10.20	1152089	14.40	997613	16.52
OP94417-MSD2	411455	4.79	1813637	5.91	890801	8.00	1356437	10.20	1032456	14.40	911172	16.52
ZZZZZZ	385345	4.79	1597469	5.91	874919	8.00	1365470	10.20	955343	14.39	868718	16.52
ZZZZZZ	402397	4.79	1618021	5.91	890434	8.00	1356031	10.20	997847	14.39	917503	16.52
ZZZZZZ	426703	4.79	1730042	5.91	959631	8.00	1462222	10.20	1049573	14.40	953846	16.53
JC21099-2	399009	4.79	1599921	5.91	864758	8.00	1302213	10.20	933688	14.39	876156	16.52
OP94417-MS	410477	4.79	1841226	5.91	890866	8.00	1347317	10.20	1009536	14.40	894884	16.52
OP94417-MSD	392162	4.79	1564897	5.91	857585	8.00	1310684	10.20	999860	14.41	878134	16.53
ZZZZZZ	421177	4.79	1622567	5.91	897068	8.01	1344131	10.20	1090895	14.40	977748	16.52

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E6P1239-CC1209	**Injection Date:**	06/06/16
Lab File ID:	6P26700.D	**Injection Time:**	08:44
Instrument ID:	GCMS6P	**Method:**	SW846 8270D

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	484824	4.76	1951932	5.87	1085687	7.95	1790600	10.14	1583065	14.35	1267130	16.46
Upper Limit [a]	969648	5.26	3903864	6.37	2171374	8.45	3581200	10.64	3166130	14.85	2534260	16.96
Lower Limit [b]	242412	4.26	975966	5.37	542844	7.45	895300	9.64	791533	13.85	633565	15.96

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
OP94462-MB1	507545	4.76	2080470	5.86	1173698	7.95	1888938	10.14	1680499	14.34	1436067	16.46
OP94462-BS1	515114	4.76	2072198	5.87	1124130	7.95	1780904	10.14	1672328	14.35	1323395	16.46
OP94462-MS	522413	4.76	2059474	5.87	1089409	7.95	1710189	10.15	1571185	14.35	1269572	16.46
OP94462-MSD	496297	4.76	1954111	5.87	1037232	7.95	1621622	10.14	1464038	14.34	1210302	16.46
ZZZZZZ	531381	4.76	2110419	5.86	1104965	7.95	1674665	10.14	1355044	14.34	1066448	16.46
ZZZZZZ	588139	4.76	2325296	5.87	1206731	7.95	1854717	10.15	1455229	14.34	1157929	16.46
ZZZZZZ	605290	4.76	2422179	5.87	1240807	7.95	1859212	10.15	1373495	14.34	1316724	16.48
ZZZZZZ	653581	4.76	2579318	5.87	1385845	7.95	2069811	10.16	1589196	14.35	1496953	16.47
ZZZZZZ	633001	4.76	2470852	5.86	1302912	7.95	1929650	10.15	1401726	14.35	1318449	16.47
ZZZZZZ	518220	4.76	2137978	5.87	1137752	7.97	1745086	10.18	1426170	14.36	1349025	16.48
ZZZZZZ	614048	4.76	2430236	5.87	1310391	7.95	1996975	10.15	1467202	14.35	1219458	16.47
JC21229-1	605730	4.76	2389756	5.86	1240765	7.95	1954510	10.14	1569586	14.34	1236693	16.46
JC21229-2 [c]	646315	4.76	2504581	5.87	1256814	7.95	2016560	10.15	1691705	14.34	1337028	16.46
ZZZZZZ	581900	4.76	2258131	5.86	1180577	7.95	1765923	10.14	1283425	14.34	1177554	16.47
ZZZZZZ	641544	4.76	2457843	5.87	1308441	7.96	2080057	10.16	1690398	14.36	1659434	16.49
ZZZZZZ	644993	4.76	2474799	5.87	1301694	7.96	2012643	10.16	1847875	14.37	1844790	16.50
ZZZZZZ	536929	4.76	2076753	5.87	1091689	7.96	1692018	10.16	1470501	14.36	1494412	16.50
ZZZZZZ	488568	4.76	1934819	5.87	1033860	7.97	1666400	10.16	1425815	14.37	1400430	16.50
ZZZZZZ	594126	4.76	2306842	5.87	1255009	7.97	1970252	10.17	1837051	14.38	1732753	16.51
ZZZZZZ	580318	4.76	2354804	5.87	1296638	7.96	2006434	10.16	1554358	14.36	1482575	16.49
ZZZZZZ	586391	4.76	2317578	5.87	1211350	7.97	1775607	10.16	1507519	14.37	1476476	16.50
JC21393-1	559441	4.76	2275539	5.87	1282142	7.97	2032853	10.16	1557393	14.37	1374449	16.50
ZZZZZZ	551751	4.76	2259321	5.87	1263343	7.96	1969422	10.16	1557896	14.37	1249767	16.50
ZZZZZZ	550526	4.76	2280054	5.87	1292651	7.97	2105058	10.16	1695700	14.37	1344512	16.50
ZZZZZZ	528733	4.76	2153601	5.87	1220270	7.96	1999585	10.16	1642185	14.37	1261064	16.50
ZZZZZZ	561728	4.76	2300876	5.87	1308640	7.97	2133462	10.16	1723555	14.37	1358319	16.49

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E6P1239-CC1209	**Injection Date:**	06/06/16
Lab File ID:	6P26700.D	**Injection Time:**	08:44
Instrument ID:	GCMS6P	**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**

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Elevated detection limit due to low volume of bad matrix sample extracted.

Semivolatile Surrogate Recovery Summary

Job Number: JC21229
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
JC21229-3	6P26494.D	26	22	66	71	72	71
JC21229-4	6P26495.D	32	19	73	81	83	85
OP94328-BS1	6P26493.D	42	28	71	78	79	80
OP94328-MB1	6P26492.D	52	39	65	69	67	77
OP94328-MS	6P26498.D	55	45	78	80	86	82
OP94328-MSD	6P26499.D	61	57	76	72	81	83

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: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC21229-1	6P26712.D	69	69	68	79	85	90
JC21229-2	6P26713.D	65	64	62	76	81	83
OP94419-BS1	6P26629.D	72	76	69	83	80	78
OP94419-MB1	6P26628.D	77	77	74	90	88	94
OP94419-MS	6P26632.D	68	73	72	78	79	84
OP94419-MSD	6P26633.D	64	67	65	75	73	80

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

Semivolatile Surrogate Recovery Summary

Job Number: JC21229
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
JC21229-3	3M61859.D	65	76	74
JC21229-4	3M61860.D	71	93	84
OP94328A-BS12	3M61856.D	59	76	85
OP94328A-BS12	3M62047.D	63	71	79
OP94328A-MB1	3M61855.D	62	73	78
OP94328A-MB1	3M62046.D	65	71	75
OP94328A-MS	3M62048.D	59	67	72
OP94328A-MSD	3M62049.D	11* [a]	15* [a]	21

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

(a) Outside control limits due to matrix interference.

Semivolatile Surrogate Recovery Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC21229-1	3M62168.D	77	89	98
JC21229-2	4P16864.D	66	87	82
OP94419A-BS12	3M62167.D	80	95	100
OP94419A-MB1	3M62166.D	86	103	114
OP94419A-MB1	4P16863.D	76	107	99
OP94419A-MS	4P16865.D	56	75	68
OP94419A-MSD	4P16866.D	65	96	80

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

Initial Calibration Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2887-ICC2887
Lab FileID: 3M61387A.D

```
                         Response Factor Report  MS3M

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m61395.D   1.0 =3m61387a.D  0.5 =3m61388a.D  0.2 =3m61389b.D
0.1 =3m61390a.D  0.05=3m61391a.D  0.02=3m61392b.D  0.01=3m61393.D
5   =3m61394.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
          0.205 0.217 0.222 0.230 0.235 0.293             0.188        0.227   14.56
3)  2-Fluorophenol
          0.493 0.535 0.540 0.507 0.506 0.510             0.490        0.512    3.78
4)  Phenol-d5
          0.796 0.863 0.882 0.827 0.805 0.810             0.782        0.824    4.42
5)  Phenol
          0.849 0.911 0.919 0.853 0.829 0.823 0.897       0.821        0.863    4.70
6)  bis(2-Chloroethyl)ether
          0.603 0.646 0.641 0.595 0.592 0.569 0.786 0.501 0.630        0.618   12.42
7)  Nitrobenzene-d5
          0.786 0.742 0.714 0.679 0.658 0.643             0.643        0.695    7.84
8)  Nitrobenzene
          0.762 0.824 0.806 0.712 0.723 0.653 0.675 0.636 0.663        0.717    9.47
9)  Naphthalene
          2.218 2.305 2.341 2.229 2.177 2.224 2.459 2.159 2.209        2.258    4.21
10)  Hexachlorobutadiene
          0.337 0.364 0.365 0.339 0.352 0.344 0.385 0.339 0.345        0.352    4.58
11)  2-Methylnaphthalene
          1.121 1.180 1.182 1.082 1.105 1.112 1.325 1.372 1.151        1.181    8.59
12)  1-Methylnaphthalene
          1.211 1.338 1.328 1.261 1.257 1.272 1.411 1.806 1.277        1.351   13.34
13)  Hexachlorocyclopentadiene
          0.239 0.196 0.146 0.061 0.029 0.019             0.298        0.141   77.28
           ---- Quadratic regression ----  Coefficient =  0.9999
             Response Ratio = -0.00933 + 0.18976 *A + 0.04493 *A^2


14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          0.866 0.923 1.007 1.023 0.998 1.002 1.156 0.939              0.989    8.66
16)  Acenaphthylene
          1.290 1.351 1.397 1.265 1.245 1.241 1.339 1.148 1.275        1.283    5.67
17)  Acenaphthene
          0.819 0.870 0.893 0.842 0.844 0.832 0.941 0.804 0.788        0.848    5.57
18)  4,6-dinitro-2-methylphenol
          0.131 0.096 0.062 0.022 0.010                   0.133        0.076   70.44
           ---- Quadratic regression ----  Coefficient =  0.9981
             Response Ratio = -0.03220 + 0.13569 *A + 0.00039 *A^2

19)  Fluorene
          0.994 1.064 1.107 1.037 1.029 1.000 1.158 0.949 0.982        1.036    6.34
20)  2,4,6-Tribromophenol
```

Initial Calibration Summary

Job Number: JC21229 **Sample:** E3M2887-ICC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61387A.D
Project: BMSMC, Building 5 Area, PR

```
          0.101 0.104 0.105 0.091 0.083                  0.100        0.097    9.06

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
          0.179 0.173 0.175 0.175 0.169 0.162 0.205 0.173 0.182        0.177    6.74
23)  Pentachlorophenol
          0.086 0.070 0.059 0.032 0.025 0.020            0.098        0.056   55.46
           ---- Quadratic regression ----  Coefficient =  0.9998
             Response Ratio = -0.00819 + 0.07481 *A + 0.00397 *A^2

24)  Phenanthrene
          0.947 0.926 0.938 0.925 0.874 0.861 1.077 0.879 0.969        0.933    7.00
25)  Anthracene
          0.936 0.909 0.887 0.815 0.776 0.748 0.869 0.730 0.970        0.849   10.08
26)  Fluoranthene
          1.073 1.069 1.078 1.090 1.091 1.101 1.502       1.082        1.136   13.05
27)  Pyrene
          1.061 1.052 1.046 0.978 0.963 0.922 1.130 0.927 1.106        1.021    7.46
28)  Terphenyl-d14
          0.568 0.555 0.586 0.607 0.585 0.584            0.426        0.558   10.86
29)  Benzo[a]anthracene
          0.965 0.925 0.947 0.830 0.826 0.788 1.011 0.846 1.002        0.904    9.20
30)  Chrysene
          0.965 0.954 0.973 0.886 0.867 0.870            1.003        0.931    5.94

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
          1.269 1.216 1.266 1.151 1.131 1.109 1.510       1.262        1.239   10.22
33)  Benzo[k]fluoranthene
          1.199 1.139 1.189 1.036 1.011 0.983 0.956 1.032 1.241        1.087    9.69
34)  Benzo[a]pyrene
          1.163 1.115 1.178 1.069 1.053 1.042            1.166        1.112    5.23
35)  Indeno[1,2,3-cd]pyrene
          1.354 1.323 1.376 1.305 1.279 1.209 1.488 1.117 1.389        1.316    8.18
36)  Dibenz[a,h]anthracene
          1.047 1.084 1.050 1.060 1.037 1.013 1.119 0.902 1.070        1.042    5.82
37)  Benzo[g,h,i]perylene
          1.147 1.104 1.167 1.070 1.071 1.092 1.288 1.048 1.166        1.128    6.55
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M3M2887SIM.M        Wed May 18 09:42:08 2016   RPT1
```

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2887-ICV2887
Lab FileID: 3M61397.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3M2887\3m61397.D Vial: 12
Acq On : 17 May 2016 7:13 pm Operator: linseyk
Sample : icv2887-1 Inst : MS3M
Misc : op93884a,e3m2887 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed May 18 08:07:34 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	80	0.00	10.26
6	t	bis(2-Chloroethyl)ether	0.618	0.712	-15.2	88	0.00	5.97
8	t	Nitrobenzene	0.717	0.758	-5.7	74	0.00	7.42
9	t	Naphthalene	2.258	2.524	-11.8	88	0.00	8.77
10	t	Hexachlorobutadiene	0.352	0.375	-6.5	82	0.00	9.06
11	t	2-Methylnaphthalene	1.181	1.215	-2.9	82	0.00	10.16
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	72	0.00	13.26
16	t	Acenaphthylene	1.283	1.451	-13.1	78	0.00	11.91
17	t	Acenaphthene	0.848	1.004	-18.4	83	0.00	12.27
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.158	-11.8	79	0.00	13.32
21	I	Fluoranthene-d10	1.000	1.000	0.0	63	0.00	17.48
22	t	Hexachlorobenzene	0.177	0.201	-13.6	73	0.00	14.40
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	1.095	-17.4	75	0.00	15.22
25	t	Anthracene	0.849	0.972	-14.5	67	-0.02	15.32
26	t	Fluoranthene	1.136	1.263	-11.2	74	0.00	17.51
27	t	Pyrene	1.021	1.196	-17.1	72	0.00	17.90
29	t	Benzo[a]anthracene	0.904	0.995	-10.1	68	0.00	20.00
30	t	Chrysene	0.931	1.029	-10.5	68	0.00	20.06
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	57	0.00	22.08
32	t	Benzo[b]fluoranthene	1.239	1.254	-1.2	59	0.00	21.67
33	t	Benzo[k]fluoranthene	1.087	1.279	-17.7	64	0.00	21.71
34	t	Benzo[a]pyrene	1.112	1.257	-13.0	65	0.00	22.11
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.441	-9.5	62	0.00	23.56
36	t	Dibenz[a,h]anthracene	1.042	1.157	-11.0	61	0.00	23.60
37	t	Benzo[g,h,i]perylene	1.128	1.186	-5.1	62	0.00	23.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Wed May 18 09:42:36 2016 RPT1

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2887-ICV2887
Lab FileID: 3M61398.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2887\3m61398.D          Vial: 13
Acq On    : 17 May 2016   7:45 pm                    Operator: linseyk
Sample    : icv2887-1                                Inst    : MS3M
Misc      : op93884a,e3m2887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 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	123	0.00	10.26
2 t	1,4-dioxane	0.227	0.220	3.1	125	-0.02	2.04
12 t	1-Methylnaphthalene	1.351	1.275	5.6	117	0.00	10.34
		True	Calc.	% Drift			
13	Hexachlorocyclopentadiene	2.000	1.942	2.9	98	0.00	10.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Wed May 18 09:42:38 2016 RPT1

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2888-ICV2887
Lab FileID: 3M61400.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2888\3m61400.D          Vial: 2
Acq On    : 18 May 2016   9:12 am                    Operator: linseyk
Sample    : icv2887-1                                Inst    : MS3M
Misc      : op93884a,e3m2888                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed May 18 08:07:34 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	89	0.00	10.26
5		Phenol	0.863	0.774	10.3	76	-0.01	5.87
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	64	0.00	13.26
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	4.814	3.7	70	0.00	13.51
21	I	Fluoranthene-d10	1.000	1.000	0.0	67	0.00	17.48
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	5.286	-5.7	74	-0.03	14.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Wed May 18 09:44:14 2016 RPT1

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2915-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61850.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2915\3m61850.D          Vial: 2
Acq On    :  1 Jun 2016   8:59 pm                    Operator: juliusj
Sample    : cc2887-1.0                               Inst    : MS3M
Misc      : op94110a,e3m2915                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue May 31 14:46:56 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	122	-0.08	10.14
2	t	1,4-dioxane	0.227	0.205	9.7	116	-0.03	1.96
3	S	2-Fluorophenol	0.512	0.554	-8.2	127	-0.06	4.17
4	S	Phenol-d5	0.824	0.847	-2.8	120	-0.06	5.79
5		Phenol	0.863	0.920	-6.6	124	-0.05	5.81
6	t	bis(2-Chloroethyl)ether	0.618	0.653	-5.7	124	-0.06	5.85
7	S	Nitrobenzene-d5	0.695	0.685	1.4	113	-0.10	7.27
8	t	Nitrobenzene	0.717	0.806	-12.4	120	-0.08	7.31
9	t	Naphthalene	2.258	2.055	9.0	109	-0.08	8.66
10	t	Hexachlorobutadiene	0.352	0.320	9.1	108	-0.08	8.94
11	t	2-Methylnaphthalene	1.181	1.106	6.4	115	-0.08	10.04
12	t	1-Methylnaphthalene	1.351	1.193	11.7	109	-0.08	10.22
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	1.208	39.6#	65	-0.06	10.36
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	98	-0.08	13.15
15	S	2-Fluorobiphenyl	0.989	1.208	-22.1#	128	-0.09	10.82
16	t	Acenaphthylene	1.283	1.530	-19.3	111	-0.09	11.79
17	t	Acenaphthene	0.848	1.008	-18.9	113	-0.09	12.14
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	2.065	58.7#	31	-0.06	13.41
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.178	-13.7	108	-0.09	13.19
20	S	2,4,6-Tribromophenol	0.097	0.104	-7.2	97	-0.09	13.70
21	I	Fluoranthene-d10	1.000	1.000	0.0	101	0.02	17.37
22	t	Hexachlorobenzene	0.177	0.169	4.5	98	-0.02	14.28
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	3.597	28.1#	71	-0.02	14.76
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	0.983	-5.4	107	0.02	15.10
25	t	Anthracene	0.849	0.939	-10.6	104	-0.02	15.21
26	t	Fluoranthene	1.136	1.105	2.7	104	0.02	17.40
27	t	Pyrene	1.021	1.100	-7.7	105	0.02	17.79
28	S	Terphenyl-d14	0.558	0.602	-7.9	109	0.02	18.19

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2915-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M61850.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.033	-14.3	112	0.02	19.91
30	t	Chrysene	0.931	0.956	-2.7	101	0.02	19.95
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	94	0.02	21.99
32	t	Benzo[b]fluoranthene	1.239	1.278	-3.1	99	0.04	21.57
33	t	Benzo[k]fluoranthene	1.087	1.196	-10.0	99	0.04	21.62
34	t	Benzo[a]pyrene	1.112	1.219	-9.6	103	0.04	22.02
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.374	-4.4	97	0.05	23.47
36	t	Dibenz[a,h]anthracene	1.042	1.182	-13.4	102	0.05	23.51
37	t	Benzo[g,h,i]perylene	1.128	1.200	-6.4	102	0.03	23.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Thu Jun 02 09:01:31 2016 RPT1

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2924-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62037.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2924\3m62037.D          Vial: 2
Acq On    :  7 Jun 2016  10:52 pm                    Operator: ashleyd
Sample    : cc2887-0.5                               Inst    : MS3M
Misc      : op94271a,e3m2924                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 07 11:28:37 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	83	0.06	10.18
2	t	1,4-dioxane	0.227	0.269	-18.5	101	-0.03	1.96
3	S	2-Fluorophenol	0.512	0.598	-16.8	92	0.01	4.20
4	S	Phenol-d5	0.824	0.938	-13.8	88	0.05	5.83
5		Phenol	0.863	0.994	-15.2	90	0.06	5.86
6	t	bis(2-Chloroethyl)ether	0.618	0.882	-42.7#	114	0.04	5.87
7	S	Nitrobenzene-d5	0.695	0.768	-10.5	89	0.00	7.31
8	t	Nitrobenzene	0.717	0.938	-30.8#	96	0.01	7.32
9	t	Naphthalene	2.258	2.330	-3.2	82	0.03	8.68
10	t	Hexachlorobutadiene	0.352	0.354	-0.6	80	0.03	8.96
11	t	2-Methylnaphthalene	1.181	1.286	-8.9	90	0.04	10.06
12	t	1-Methylnaphthalene	1.351	1.397	-3.4	87	0.04	10.24
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.271	72.9#	8	0.06	10.38
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	75	0.06	13.17
15	S	2-Fluorobiphenyl	0.989	1.197	-21.0#	89	0.03	10.85
16	t	Acenaphthylene	1.283	1.457	-13.6	78	0.04	11.82
17	t	Acenaphthene	0.848	1.019	-20.2#	86	0.05	12.18
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	2.377	4.9	94	0.10	13.45
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.142	-10.2	77	0.06	13.22
20	S	2,4,6-Tribromophenol	0.097	0.112	-15.5	80	0.06	13.73
21	I	Fluoranthene-d10	1.000	1.000	0.0	72	0.05	17.40
22	t	Hexachlorobenzene	0.177	0.179	-1.1	74	0.00	14.31
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	2.003	19.9	59	0.01	14.79
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	1.034	-10.8	80	0.05	15.13
25	t	Anthracene	0.849	1.017	-19.8	83	0.02	15.24
26	t	Fluoranthene	1.136	1.176	-3.5	79	0.05	17.43
27	t	Pyrene	1.021	1.178	-15.4	82	0.06	17.83
28	S	Terphenyl-d14	0.558	0.692	-24.0#	86	0.05	18.22

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2924-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62037.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.090	-20.6#	83	0.05	19.94
30	t	Chrysene	0.931	1.136	-22.0#	85	0.06	20.00
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	80	0.06	22.04
32	t	Benzo[b]fluoranthene	1.239	1.388	-12.0	88	0.07	21.60
33	t	Benzo[k]fluoranthene	1.087	1.148	-5.6	78	0.07	21.65
34	t	Benzo[a]pyrene	1.112	1.258	-13.1	86	0.08	22.07
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.462	-11.1	85	0.06	23.52
36	t	Dibenz[a,h]anthracene	1.042	1.251	-20.1#	96	0.09	23.56
37	t	Benzo[g,h,i]perylene	1.128	1.324	-17.4	91	0.09	23.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61388a.D M3M2887SIM.M Wed Jun 08 08:27:23 2016 RPT1

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2925-ECC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62077.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2925\3m62077.D          Vial: 17
Acq On    :  8 Jun 2016   7:43 pm                     Operator: linseyk
Sample    : ecc2887-1                                 Inst    : MS3M
Misc      : op94162a,e3m2925,30.6                     Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 09 10:34:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	86	0.06	10.18
2	t	1,4-dioxane	0.227	0.202	11.0	81	-0.02	1.96
3	S	2-Fluorophenol	0.512	0.497	2.9	80	0.03	4.21
4	S	Phenol-d5	0.824	0.737	10.6	74	0.07	5.86
5		Phenol	0.863	0.810	6.1	77	0.08	5.88
6	t	bis(2-Chloroethyl)ether	0.618	0.717	-16.0	96	0.00	5.87
7	S	Nitrobenzene-d5	0.695	0.642	7.6	75	0.00	7.31
8	t	Nitrobenzene	0.717	0.766	-6.8	80	0.03	7.34
9	t	Naphthalene	2.258	1.942	14.0	73	0.03	8.68
10	t	Hexachlorobutadiene	0.352	0.293	16.8	69	0.03	8.96
11	t	2-Methylnaphthalene	1.181	1.168	1.1	85	0.04	10.06
12	t	1-Methylnaphthalene	1.351	1.222	9.5	79	0.04	10.24
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	0.209	89.5#	1	-0.08	10.24
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	64	0.08	13.19
15	S	2-Fluorobiphenyl	0.989	1.045	-5.7	72	0.03	10.85
16	t	Acenaphthylene	1.283	1.508	-17.5	71	0.06	11.84
17	t	Acenaphthene	0.848	0.942	-11.1	69	0.06	12.19
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	1.179	76.4#	4	0.13	13.49
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.063	-2.6	64	0.06	13.22
20	S	2,4,6-Tribromophenol	0.097	0.102	-5.2	63	0.08	13.75
21	I	Fluoranthene-d10	1.000	1.000	0.0	60	0.08	17.43
22	t	Hexachlorobenzene	0.177	0.166	6.2	58	0.02	14.33
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	2.835	43.3	32	0.04	14.82
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	0.977	-4.7	64	0.06	15.15
25	t	Anthracene	0.849	0.992	-16.8	66	0.03	15.25
26	t	Fluoranthene	1.136	1.088	4.2	62	0.08	17.46
27	t	Pyrene	1.021	1.146	-12.2	66	0.08	17.85
28	S	Terphenyl-d14	0.558	0.610	-9.3	67	0.07	18.24

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2925-ECC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62077.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.033	-14.3	68	0.08	19.97
30	t	Chrysene	0.931	1.056	-13.4	67	0.08	20.01
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	60	0.09	22.07
32	t	Benzo[b]fluoranthene	1.239	1.412	-14.0	70	0.10	21.64
33	t	Benzo[k]fluoranthene	1.087	1.063	2.2	56	0.10	21.68
34	t	Benzo[a]pyrene	1.112	1.195	-7.5	65	0.12	22.10
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.424	-8.2	65	0.09	23.56
36	t	Dibenz[a,h]anthracene	1.042	1.135	-8.9	63	0.11	23.58
37	t	Benzo[g,h,i]perylene	1.128	1.232	-9.2	67	0.12	23.90

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61387a.D M3M2887SIM.M Thu Jun 09 10:36:40 2016 RPT1

6.7.7

6

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2930-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62147.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2930\3m62147.D          Vial: 2
Acq On    : 10 Jun 2016   8:54 pm                    Operator: juliusj
Sample    : cc2887-0.5                               Inst    : MS3M
Misc      : op94389a,e3m2930                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 09 10:49:16 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	137	0.04	10.16
2	t	1,4-dioxane	0.227	0.242	-6.6	149	-0.02	1.96
3	S	2-Fluorophenol	0.512	0.516	-0.8	131	0.03	4.21
4	S	Phenol-d5	0.824	0.739	10.3	115	0.07	5.86
5		Phenol	0.863	0.781	9.5	116	0.08	5.88
6	t	bis(2-Chloroethyl)ether	0.618	0.722	-16.8	154	0.01	5.86
7	S	Nitrobenzene-d5	0.695	0.721	-3.7	138	0.00	7.29
8	t	Nitrobenzene	0.717	0.818	-14.1	139	0.01	7.33
9	t	Naphthalene	2.258	2.064	8.6	121	0.01	8.66
10	t	Hexachlorobutadiene	0.352	0.339	3.7	127	0.01	8.94
11	t	2-Methylnaphthalene	1.181	1.272	-7.7	147	0.02	10.04
12	t	1-Methylnaphthalene	1.351	1.228	9.1	127	0.02	10.22
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.917	8.3	137	0.04	10.36
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	100	0.06	13.17
15	S	2-Fluorobiphenyl	0.989	1.258	-27.2#	124	0.02	10.83
16	t	Acenaphthylene	1.283	1.452	-13.2	104	0.04	11.82
17	t	Acenaphthene	0.848	1.041	-22.8#	116	0.05	12.18
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	2.539	-1.6	139	0.10	13.45
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.036	1.202	-16.0	108	0.04	13.21
20	S	2,4,6-Tribromophenol	0.097	0.103	-6.2	97	0.06	13.73
21	I	Fluoranthene-d10	1.000	1.000	0.0	99	0.05	17.40
22	t	Hexachlorobenzene	0.177	0.171	3.4	97	0.00	14.30
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.778	28.9#	69	0.01	14.79
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.933	1.044	-11.9	110	0.05	15.13
25	t	Anthracene	0.849	0.966	-13.8	107	0.00	15.22
26	t	Fluoranthene	1.136	1.166	-2.6	107	0.05	17.43
27	t	Pyrene	1.021	1.187	-16.3	112	0.06	17.83
28	S	Terphenyl-d14	0.558	0.663	-18.8	112	0.05	18.22

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E3M2930-CC2887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62147.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.904	1.119	-23.8#	117	0.05	19.94
30	t	Chrysene	0.931	1.100	-18.2	112	0.06	20.00
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	105	0.06	22.04
32	t	Benzo[b]fluoranthene	1.239	1.367	-10.3	114	0.08	21.62
33	t	Benzo[k]fluoranthene	1.087	1.203	-10.7	106	0.07	21.65
34	t	Benzo[a]pyrene	1.112	1.249	-12.3	111	0.08	22.07
35	t	Indeno[1,2,3-cd]pyrene	1.316	1.512	-14.9	116	0.06	23.52
36	t	Dibenz[a,h]anthracene	1.042	1.220	-17.1	122	0.09	23.56
37	t	Benzo[g,h,i]perylene	1.128	1.290	-14.4	116	0.09	23.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m61388a.D M3M2887SIM.M Mon Jun 13 10:29:49 2016 RPT1

Initial Calibration Summary

Job Number: JC21229 **Sample:** E4P887-ICC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16670.D
Project: BMSMC, Building 5 Area, PR

```
                    Response Factor Report  MS4P

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration

Calibration Files
2.5 =4p16677.D   1.0 =4p16670.D   0.5 =4p16669.D   0.2 =4p16671.D
0.1 =4p16672.D   0.05=4p16673.D   0.02=4p16674.D   0.01=4p16675.D
5   =4p16676.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
          0.298 0.309 0.376 0.300 0.293 0.280             0.318        0.311   10.02
3)  2-Fluorophenol
          0.457 0.573 0.582 0.624 0.582 0.560 0.533       0.472        0.548   10.51
4)  Phenol-d5
          0.815 1.018 1.121 1.108 0.962 0.852 0.791       0.736        0.925   15.99
5)  Phenol
          0.852 1.125 1.146 1.146 1.046 0.945 0.923       1.052        1.029   10.84
6)  bis(2-Chloroethyl)ether
          0.717 0.798 0.896 0.769 0.747 0.684 0.996 0.751 0.704        0.785   12.84
7)  Nitrobenzene-d5
          0.570 0.743 0.730 0.693 0.680 0.608 0.684       0.694        0.675    8.64
8)  Naphthalene
          2.446 2.679 2.910 2.907 2.591 2.528 2.515       2.546        2.640    6.76
9)  Hexachlorobutadiene
          0.364 0.463 0.474 0.448 0.437 0.431 0.512 0.534 0.408        0.452   11.41
10)  2-Methylnaphthalene
          1.359 1.244 1.416 1.554 1.320 1.597             1.372        1.409    8.97
11)  1-Methylnaphthalene
          1.552 1.607 1.836 1.951 1.733 1.774 1.878       1.645        1.747    7.96
12)  Hexachlorocyclopentadiene
          0.275 0.377 0.325 0.203 0.156 0.099             0.361        0.257   41.65
           ---- Quadratic regression ----  Coefficient =  0.9933
             Response Ratio = 0.00784 + 0.23620 *A + 0.04776 *A^2


13) I   Fluorene-d10          ----------------ISTD---------------------
14)  2-Fluorobiphenyl
          0.966 0.743 1.097 1.305 1.095 1.206 1.107                    1.074   16.73
15)  Acenaphthylene
          1.745 1.238 1.687 1.760 1.428 1.543             1.442        1.549   12.48
16)  Acenaphthene
          0.841 0.880 0.946 0.902 0.809 0.812 0.809 0.814 0.729        0.838    7.58
17)  Dibenzofuran
          1.634 1.126 1.491 1.925 1.271                   1.244        1.449   20.49
18)  Fluorene
          0.958 1.042 1.097 1.084 1.060 1.152 1.017       0.855        1.033    8.92
19)  4,6-dinitro-2-methylphenol
          0.102 0.069 0.060 0.041 0.024                   0.105        0.067   48.46
           ---- Quadratic regression ----  Coefficient =  0.9978
             Response Ratio = -0.01925 + 0.09877 *A + 0.00160 *A^2

20)  n-nitrosodiphenylamine
```

Initial Calibration Summary

Job Number: JC21229 **Sample:** E4P887-ICC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16670.D
Project: BMSMC, Building 5 Area, PR

```
          0.762 0.485 0.681 0.647 0.541 0.605 0.569       0.583        0.609   14.22
21)  1,2-Diphenylhydrazine
          1.177 0.924 1.077 0.994                         1.021        1.039    9.13
22)  2,4,6-Tribromophenol
          0.121 0.098 0.124 0.115                         0.094        0.111   12.41

23)     Fluoranthene-d10      ----------------ISTD---------------------
24)  Hexachlorobenzene
          0.231 0.239 0.249 0.243 0.221 0.221 0.245 0.241 0.220        0.234    4.96
25)  Pentachlorophenol
          0.093 0.097 0.088 0.063 0.041 0.041             0.106        0.075   35.83
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00213 + 0.08526 *A + 0.00337 *A^2

26)  Phenanthrene
          1.107 1.225 1.237 1.133 1.000 0.951 1.052 0.984 1.078        1.085    9.33
27)  Anthracene
          1.119 1.130 1.141 0.984 0.828                   1.114        1.053   11.80
28)  Fluoranthene
          1.216 1.270 1.312 1.257 1.202 1.197 1.374       1.189        1.252    5.19
29)  Pyrene
          1.228 1.283 1.311 1.186 1.020 0.994 1.012       1.173        1.151   10.98
30)  Terphenyl-d14
          0.503 0.574 0.576 0.576 0.503 0.477 0.460 0.420 0.421        0.501   12.60
31)  Benzo[a]anthracene
          0.837 0.949 0.971 0.797 0.654 0.632             0.873        0.816   16.30
32)  Chrysene
          1.031 1.085 1.114 1.021 0.866 0.804             0.999        0.989   11.46

33) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
34)  Benzo[b]fluoranthene
          1.398 1.482 1.598 1.353 1.233                   1.437        1.417    8.66
35)  Benzo[k]fluoranthene
          1.249 1.325 1.320 1.240 0.998                   1.221        1.226    9.76
36)  Benzo[a]pyrene
          1.232 1.272 1.402 1.319 1.332 1.185             1.224        1.281    5.85
37)  Indeno[1,2,3-cd]pyrene
          1.337 1.511 1.597 1.458 1.314                   1.322        1.423    8.24
38)  Dibenz[a,h]anthracene
          1.101 1.235 1.304 1.181 0.994                   1.103        1.153    9.55
39)  Benzo[g,h,i]perylene
          1.238 1.330 1.404 1.352 1.220                   1.217        1.294    6.12
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M4P887SIM.M        Mon Jun 06 15:50:33 2016
```

6.7.9

6

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E4P887-ICV887
Lab FileID: 4P16678.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P887\4p16678.D          Vial: 11
Acq On    :  6 Jun 2016   2:49 pm                   Operator: linseyk
Sample    : icv887-1                                Inst    : MS4P
Misc      : op94376a,e4p887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 06 15:07:18 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	122	0.00	7.76
5	Phenol	1.029	0.716	30.4#	78	0.00	3.77
	----------	AvgRF	CCRF	% Dev	----------		
13 I	Fluorene-d10	1.000	1.000	0.0	69	0.00	10.71
	----------	True	Calc.	% Drift	----------		
19	4,6-dinitro-2-methylpheno	5.000	4.314	13.7	71	0.00	10.96
23	Fluoranthene-d10	1.000	1.000	0.0	94	0.00	14.90
	----------	True	Calc.	% Drift	----------		
25 t	Pentachlorophenol	5.000	4.100	18.0	69	0.00	12.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16670.D M4P887SIM.M Mon Jun 06 15:50:11 2016

Initial Calibration Verification

Job Number: JC21229 **Sample:** E4P887-ICV887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16679.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P887\4p16679.D          Vial: 12
Acq On    :  6 Jun 2016   3:19 pm                   Operator: linseyk
Sample    : icv887-1                                Inst    : MS4P
Misc      : op94376a,e4p887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 06 15:07:18 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	148	0.00	7.76
2	t	1,4-Dioxane	0.311	0.251	19.3	120	0.01	1.43
6	t	bis(2-Chloroethyl)ether	0.785	0.798	-1.7	148	0.00	3.85
8	t	Naphthalene	2.640	2.666	-1.0	147	0.00	6.34
9	t	Hexachlorobutadiene	0.452	0.370	18.1	118	0.00	6.65
10	t	2-Methylnaphthalene	1.409	1.356	3.8	161	0.00	7.65
		----------	AvgRF	CCRF	% Dev	----------		
13	I	Fluorene-d10	1.000	1.000	0.0	85	0.00	10.71
15	t	Acenaphthylene	1.549	1.887	-21.8	130	0.00	9.37
16	t	Acenaphthene	0.838	1.047	-24.9	102	0.00	9.73
17		Dibenzofuran	1.449	1.885	-30.1#	143	0.00	10.08
18	t	Fluorene	1.033	1.084	-4.9	89	0.00	10.76
		----------	AvgRF	CCRF	% Dev	----------		
20		n-nitrosodiphenylamine	0.609	0.804	-32.0#	142	0.00	11.08
21		1,2-Diphenylhydrazine	1.039	1.218	-17.2	112	0.00	11.13
23		Fluoranthene-d10	1.000	1.000	0.0	104	0.00	14.91
24	t	Hexachlorobenzene	0.234	0.262	-12.0	114	0.00	11.84
		----------	AvgRF	CCRF	% Dev	----------		
26	t	Phenanthrene	1.085	1.328	-22.4	113	-0.01	12.62
27	t	Anthracene	1.053	1.138	-8.1	105	-0.01	12.72
28	t	Fluoranthene	1.252	1.298	-3.7	107	0.00	14.94
29	t	Pyrene	1.151	1.229	-6.8	100	0.00	15.34
31	t	Benzo[a]anthracene	0.816	0.999	-22.4	110	0.00	17.45
32	t	Chrysene	0.989	1.121	-13.3	108	0.00	17.51
33	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	84	0.00	19.53
34	t	Benzo[b]fluoranthene	1.417	1.243	12.3	70	0.00	19.11
35	t	Benzo[k]fluoranthene	1.226	1.486	-21.2	94	0.00	19.15
36	t	Benzo[a]pyrene	1.281	1.304	-1.8	86	0.00	19.55
37	t	Indeno[1,2,3-cd]pyrene	1.423	1.389	2.4	77	0.00	20.97
38	t	Dibenz[a,h]anthracene	1.153	1.131	1.9	77	0.00	21.02
39	t	Benzo[g,h,i]perylene	1.294	1.325	-2.4	83	0.00	21.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16670.D M4P887SIM.M Mon Jun 06 15:50:13 2016

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E4P896-CC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16862.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P896\4p16862.D          Vial: 2
Acq On    : 13 Jun 2016   9:43 am                   Operator: linseyk
Sample    : cc887-1                                 Inst    : MS4P
Misc      : op94546a,e4p896                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jun 09 12:14:57 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	124	-0.05	7.72
2	t	1,4-Dioxane	0.311	0.263	15.4	105	-0.03	1.39
3	S	2-Fluorophenol	0.548	0.515	6.0	111	-0.07	2.59
4	S	Phenol-d5	0.925	0.835	9.7	101	-0.03	3.72
5		Phenol	1.029	0.863	16.1	95	-0.03	3.73
6	t	bis(2-Chloroethyl)ether	0.785	0.542	31.0#	84	-0.03	3.82
7	S	Nitrobenzene-d5	0.675	0.710	-5.2	118	-0.04	5.03
8	t	Naphthalene	2.640	2.144	18.8	99	-0.06	6.29
9	t	Hexachlorobutadiene	0.452	0.378	16.4	101	-0.06	6.59
10	t	2-Methylnaphthalene	1.409	1.309	7.1	130	-0.05	7.60
11	t	1-Methylnaphthalene	1.747	1.167	33.2#	90	-0.05	7.79
		----------	True	Calc.	% Drift	----------		
12		Hexachlorocyclopentadiene	2.000	1.820	9.0	82	-0.07	7.95
		----------	AvgRF	CCRF	% Dev	----------		
13	I	Fluorene-d10	1.000	1.000	0.0	63	-0.05	10.66
14	S	2-Fluorobiphenyl	1.074	1.310	-22.0#	111	-0.05	8.38
15	t	Acenaphthylene	1.549	1.897	-22.5#	97	-0.05	9.32
16	t	Acenaphthene	0.838	1.455	-73.6#	104	-0.07	9.66
17		Dibenzofuran	1.449	1.690	-16.6	95	-0.04	10.03
18	t	Fluorene	1.033	1.260	-22.0#	76	-0.07	10.69
		----------	True	Calc.	% Drift	----------		
19		4,6-dinitro-2-methylpheno	5.000	6.236	-24.7#	101	-0.05	10.91
		----------	AvgRF	CCRF	% Dev	----------		
20		n-nitrosodiphenylamine	0.609	1.093	-79.5#	142	-0.05	11.03
21		1,2-Diphenylhydrazine	1.039	1.025	1.3	70	-0.07	11.06
22	S	2,4,6-Tribromophenol	0.111	0.180	-62.2#	116	-0.04	11.19
23		Fluoranthene-d10	1.000	1.000	0.0	91	-0.03	14.87
24	t	Hexachlorobenzene	0.234	0.265	-13.2	101	-0.04	11.79
		----------	True	Calc.	% Drift	----------		
25	t	Pentachlorophenol	5.000	5.243	-4.9	87	-0.03	12.23
		----------	AvgRF	CCRF	% Dev	----------		
26	t	Phenanthrene	1.085	1.275	-17.5	95	-0.05	12.58
27	t	Anthracene	1.053	1.311	-24.5#	106	-0.07	12.66
28	t	Fluoranthene	1.252	1.354	-8.1	97	-0.05	14.88

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E4P896-CC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16862.D
Project: BMSMC, Building 5 Area, PR

29	t	Pyrene	1.151	1.411	-22.6#	100	-0.05	15.28
30	S	Terphenyl-d14	0.501	0.641	-27.9#	102	-0.05	15.71
31	t	Benzo[a]anthracene	0.816	1.025	-25.6#	99	-0.04	17.41
32	t	Chrysene	0.989	1.199	-21.2#	101	-0.04	17.47
33	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	92	-0.04	19.49
34	t	Benzo[b]fluoranthene	1.417	1.496	-5.6	92	-0.04	19.08
35	t	Benzo[k]fluoranthene	1.226	1.553	-26.7#	107	-0.04	19.11
36	t	Benzo[a]pyrene	1.281	1.451	-13.3	105	-0.05	19.51
37	t	Indeno[1,2,3-cd]pyrene	1.423	1.605	-12.8	97	-0.04	20.94
38	t	Dibenz[a,h]anthracene	1.153	1.280	-11.0	95	-0.04	20.97
39	t	Benzo[g,h,i]perylene	1.294	1.440	-11.3	99	-0.03	21.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16670.D M4P887SIM.M Mon Jun 13 11:21:00 2016

6.7.12

6

Initial Calibration Summary

Job Number: JC21229 **Sample:** E6P1209-ICC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25928.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MS6P

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

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

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

Initial Calibration Summary

Job Number: JC21229 **Sample:** E6P1209-ICC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25928.D
Project: BMSMC, Building 5 Area, PR

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

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

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

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

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

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

Initial Calibration Summary

Job Number: JC21229 **Sample:** E6P1209-ICC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25928.D
Project: BMSMC, Building 5 Area, PR

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

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


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

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

Initial Calibration Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICC1210
Lab FileID: 6P25940.D

```
                         Response Factor Report  MS6P

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

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

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

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

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

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

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


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

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1209
Lab FileID: 6P25950.D

Evaluate Continuing Calibration Report

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

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	4.87
2	t	1,4-Dioxane	0.710	0.637	10.3	116	0.01	2.47
6	t	Indene	2.721	2.607	4.2	121	0.00	5.07
7	t	Cumene	3.861	3.550	8.1	117	0.00	4.26
13	t	Decane	1.990	1.604	19.4	106	0.00	4.74
18	t	Acetophenone	2.246	2.034	9.4	116	0.00	5.19
24	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00	6.00
27	t	Quinoline	0.746	0.678	9.1	111	0.00	6.37
40	t	2,3-Dichloroaniline	0.348	0.286	17.8	103	0.00	7.11
41	t	Caprolactam	0.189	0.156	17.5	98	0.00	6.43
45	t	1-Methylnaphthalene	0.622	0.567	8.8	111	0.00	6.89
46	t	Dimethylnaphthalene	0.635	0.580	8.7	111	0.00	7.55
47	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00	8.11
48	t	Hexachlorocyclopentadiene	0.280	0.140	0.0	106	0.00	6.96
53	t	Biphenyl	1.534	1.462	4.7	111	0.00	7.35
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	10.30
82	t	Octadecane	0.598	0.544	9.0	101	0.00	10.24
92	I	Perylene-d12	1.000	1.000	0.0	87	0.00	16.60
100	t	7,12-Dimethylbenz(a)anthr	0.528	0.519	1.7	81	0.00	16.08

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1210
Lab FileID: 6P25950A.D

Evaluate Continuing Calibration Report

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

Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update  : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	132	0.00	4.87
103	Benzaldehyde	1.205	1.210	-0.4	135	0.00	4.53
106	Phenanthrene-d10a	1.000	1.000	0.0	127	0.00	10.30
107	Atrazine	0.100	0.111	-11.0	131	0.02	9.94

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1209
Lab FileID: 6P25951.D

Evaluate Continuing Calibration Report

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

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	113	0.00	14.49
89 t	3,3'-Dichlorobenzidine	0.407	0.372	8.6	100	0.00	14.48

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1210-ICV1210
Lab FileID: 6P25952.D

```
                    Evaluate Continuing Calibration Report

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

  Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
  Last Update  : Mon May 16 09:26:46 2016
  Response via : Multiple Level Calibration

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

        Compound                   AvgRF   CCRF      %Dev Area%  Dev(min)R.T.
  ---------------------------------------------------------------------------
           ----------------------- AvgRF   CCRF     % Dev   -------------
112 I   Naphthalene-d8             1.000   1.000      0.0  108   0.00    6.00
113 T   Hydroquinone               0.378   0.370      2.1  106   0.02    6.41

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

Initial Calibration Verification

Job Number: JC21229 **Sample:** E6P1211-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25954.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

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

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	124	0.00	4.87
9	t	Phenol	2.140	1.823	14.8	109	0.03	4.61
12	t	2-Chlorophenol	1.551	1.410	9.1	117	0.02	4.71
19	t	2-Methylphenol	1.477	1.292	12.5	113	0.02	5.08
21	t	3&4-Methylphenol	1.558	1.364	12.5	111	0.03	5.21
24	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00	6.00
29	t	2-Nitrophenol	0.197	0.187	5.1	108	0.01	5.63
30	t	2,4-Dimethylphenol	0.365	0.390	-6.8	121	0.02	5.67
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	53.582	-7.2	117	0.10	5.82
33	t	2,4-Dichlorophenol	0.281	0.278	1.1	114	0.02	5.86
34	t	2,6-Dichlorophenol	0.270	0.272	-0.7	116	0.01	6.08
43	t	4-Chloro-3-methylphenol	0.347	0.333	4.0	109	0.03	6.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	8.11
49	t	2,4,6-Trichlorophenol	0.325	0.354	-8.9	119	0.02	7.12
50	t	2,4,5-Trichlorophenol	0.356	0.353	0.8	107	0.02	7.16
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	46.925	6.15	88	0.02	8.22
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.205	0.225	-9.8	111	0.06	8.35
64		2,3,4,6-Tetrachlorophenol	0.253	0.277	-9.5	115	0.02	8.59
69	I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00	10.30
70	t	4,6-Dinitro-2-methylpheno	50.000	47.679	4.6	102	0.02	8.99
76	t	Pentachlorophenol	0.127	0.064	-0.1	98	0.02	10.02

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1211-ICV1209
Lab FileID: 6P25955.D

Evaluate Continuing Calibration Report

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

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	4.87
10		Aniline	2.427	1.985	18.2	99	0.03	4.64
16	t	Benzyl alcohol	1.060	1.002	5.5	106	0.03	5.00
24	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00	6.00
39	t	4-Chloroaniline	0.460	0.381	17.2	94	0.02	6.08
44	t	2-Methylnaphthalene	0.606	0.581	4.1	108	0.00	6.77
47	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00	8.11
54	t	2-Nitroaniline	0.416	0.388	6.7	95	0.03	7.52
58	t	3-Nitroaniline	0.348	0.293	15.8	89	0.03	8.08
62	t	Dibenzofuran	1.605	1.594	0.7	113	0.00	8.40
68	t	4-Nitroaniline	0.365	0.300	17.8	90	0.04	8.96
69	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00	10.30
79	t	Carbazole	1.082	1.024	5.4	107	0.02	10.70

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1212-ICV1209
Lab FileID: 6P25959.D

Evaluate Continuing Calibration Report

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

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	118	-0.01	4.86
5	S	2-Fluorophenol	1.524	1.332	12.6	107	0.03	3.88
8	S	Phenol-d5	1.995	1.627	18.4	100	0.02	4.59
24	I	Naphthalene-d8	1.000	1.000	0.0	107	-0.01	5.99
25	S	Nitrobenzene-d5	0.446	0.404	9.4	102	0.00	5.32
47	I	Acenaphthene-d10	1.000	1.000	0.0	107	-0.01	8.10
51	S	2-Fluorobiphenyl	1.290	1.223	5.2	107	0.00	7.21
69	I	Phenanthrene-d10	1.000	1.000	0.0	107	-0.01	10.29
73	S	2,4,6-Tribromophenol	0.100	0.077	23.0	78	0.00	9.24
83	I	Chrysene-d12	1.000	1.000	0.0	98	-0.01	14.48
85	S	Terphenyl-d14	0.838	0.774	7.6	93	-0.01	12.85

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

Initial Calibration Verification

Job Number: JC21229 **Sample:** E6P1212-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25960.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

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

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	4.86
4	t	N-Nitrosodimethylamine	1.074	1.043	2.9	101	0.04	2.78
11	t	bis(2-Chloroethyl)ether	1.521	1.519	0.1	107	0.00	4.66
14	t	1,3-Dichlorobenzene	1.624	1.641	-1.0	109	0.00	4.82
15	t	1,4-Dichlorobenzene	1.646	1.658	-0.7	109	0.00	4.87
17	t	1,2-Dichlorobenzene	1.559	1.562	-0.2	110	0.00	5.00
20	t	2,2'-oxybis(1-Chloropropa	0.544	0.494	9.2	99	0.00	5.08
22	t	n-Nitroso-di-n-propylamin	1.339	1.203	10.2	99	0.01	5.20
23	t	Hexachloroethane	0.490	0.534	-9.0	116	0.00	5.28
24	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00	5.99
26	t	Nitrobenzene	0.466	0.454	2.6	98	0.00	5.34
28	t	Isophorone	0.791	0.795	-0.5	102	0.03	5.57
32	t	bis(2-Chloroethoxy)methan	0.447	0.425	4.9	96	0.00	5.75
36	t	1,2,4-Trichlorobenzene	0.295	0.326	-10.5	109	-0.01	5.93
38	t	Naphthalene	1.128	1.136	-0.7	101	0.00	6.01
42	t	Hexachlorobutadiene	0.151	0.179	-18.5	119	-0.02	6.13
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.01	8.10
52	t	2-Chloronaphthalene	1.142	1.180	-3.3	103	0.00	7.36
55	t	Dimethylphthalate	1.332	1.351	-1.4	100	0.02	7.77
56	t	Acenaphthylene	1.914	1.877	1.9	95	0.00	7.91
57	t	2,6-Dinitrotoluene	0.273	0.296	-8.4	97	0.00	7.84
59	t	Acenaphthene	1.207	1.227	-1.7	100	0.00	8.15
63	t	2,4-Dinitrotoluene	0.367	0.377	-2.7	92	0.00	8.39
65	t	Diethylphthalate	1.356	1.361	-0.4	98	0.01	8.78
66	t	Fluorene	1.344	1.356	-0.9	98	0.00	8.89
67	t	4-Chlorophenyl-phenylethe	0.604	0.642	-6.3	107	-0.01	8.90
69	I	Phenanthrene-d10	1.000	1.000	0.0	92	-0.01	10.29
71	t	n-Nitrosodiphenylamine	0.559	0.589	-5.4	101	0.00	9.08
72	t	1,2-Diphenylhydrazine	1.005	0.954	5.1	91	0.00	9.14
74	t	4-Bromophenyl-phenylether	0.201	0.213	-6.0	101	0.00	9.63
75	t	Hexachlorobenzene	0.220	0.210	4.5	90	-0.01	9.69
77	t	Phenanthrene	1.160	1.174	-1.2	98	0.00	10.33
78	t	Anthracene	1.149	1.162	-1.1	97	0.00	10.41
80	t	Di-n-butylphthalate	1.361	1.375	-1.0	95	0.00	11.32
81	t	Fluoranthene	1.232	1.231	0.1	97	-0.01	12.19
83	I	Chrysene-d12	1.000	1.000	0.0	81	0.00	14.49
84	t	Pyrene	1.357	1.551	-14.3	97	0.00	12.54
86	t	Butylbenzylphthalate	0.598	0.691	-15.6	91	0.00	13.70
88	t	Benzo[a]anthracene	1.188	1.293	-8.8	93	0.00	14.47

Initial Calibration Verification

Job Number: JC21229 **Sample:** E6P1212-ICV1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P25960.D
Project: BMSMC, Building 5 Area, PR

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

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

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

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E6P1212-ICV1210
Lab FileID: 6P25960A.D

Evaluate Continuing Calibration Report

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

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
Last Update : Mon May 16 09:26:46 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
104	Acenaphthene-d10a	1.000	1.000	0.0	107	-0.01	8.10
105	1,2,4,5-Tetrachlorobenzen	0.496	0.605	-22.0	135	0.00	6.96
110 I	Chrysene-d12a	1.000	1.000	0.0	100	0.00	14.49
	----------	True	Calc.	% Drift	----------		
111 T	benzidine	50.000	36.011	27.9	77	0.02	12.47

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

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1232-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26490.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1232\6p26490.D Vial: 2
Acq On : 31 May 2016 8:50 am Operator: ariellec
Sample : cc1209-50 Inst : MS6P
Misc : op94071,e6p1232 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
Last Update : Tue May 31 09:12:53 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	97	0.00	4.76
2	t	1,4-Dioxane	0.710	0.611	13.9	89	-0.07	2.33
3	t	Pyridine	1.798	1.631	9.3	89	-0.05	2.65
4	t	N-Nitrosodimethylamine	1.074	0.979	8.8	89	-0.05	2.63
5	S	2-Fluorophenol	1.524	1.444	5.2	95	0.00	3.78
6	t	Indene	2.721	2.853	-4.9	106	0.00	4.96
7	t	Cumene	3.861	4.020	-4.1	106	-0.01	4.15
8	S	Phenol-d5	1.995	2.012	-0.9	102	0.02	4.51
9	t	Phenol	2.140	2.280	-6.5	107	0.02	4.52
10		Aniline	2.427	2.138	11.9	95	0.02	4.52
11	t	bis(2-Chloroethyl)ether	1.521	1.476	3.0	98	0.02	4.56
12	t	2-Chlorophenol	1.551	1.563	-0.8	102	0.02	4.61
13	t	Decane	1.990	2.034	-2.2	107	0.00	4.62
14	t	1,3-Dichlorobenzene	1.624	1.633	-0.6	102	0.00	4.72
15	t	1,4-Dichlorobenzene	1.646	1.667	-1.3	103	0.00	4.78
16	t	Benzyl alcohol	1.060	1.072	-1.1	101	0.02	4.88
17	t	1,2-Dichlorobenzene	1.559	1.577	-1.2	105	0.00	4.89
18	t	Acetophenone	2.246	2.388	-6.3	109	0.02	5.09
19	t	2-Methylphenol	1.477	1.477	0.0	101	0.04	4.98
20	t	2,2'-oxybis(1-Chloropropa	0.544	0.556	-2.2	105	0.00	4.98
21	t	3&4-Methylphenol	1.558	1.585	-1.7	102	0.04	5.10
22	t	n-Nitroso-di-n-propylamin	1.339	1.446	-8.0	112	0.02	5.09
23	t	Hexachloroethane	0.490	0.493	-0.6	101	0.00	5.17
24	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	5.87
25	S	Nitrobenzene-d5	0.446	0.479	-7.4	105	0.00	5.22
26	t	Nitrobenzene	0.466	0.498	-6.9	105	0.00	5.24
27	t	Quinoline	0.746	0.761	-2.0	99	0.02	6.26
28	t	Isophorone	0.791	0.821	-3.8	103	0.01	5.45
29	t	2-Nitrophenol	0.197	0.221	-12.2	108	0.00	5.52
30	t	2,4-Dimethylphenol	0.365	0.391	-7.1	102	0.02	5.56
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	55.557	-11.1	103	0.11	5.70
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.447	0.447	0.0	99	0.01	5.64
33	t	2,4-Dichlorophenol	0.281	0.287	-2.1	99	0.00	5.75
34	t	2,6-Dichlorophenol	0.270	0.286	-5.9	103	0.02	5.97
35		1,3,5-Trichlorobenzene	0.308	0.318	-3.2	101	0.00	5.52
36	t	1,2,4-Trichlorobenzene	0.295	0.300	-1.7	98	0.00	5.81
37		1,2,3-Trichlorobenzene	0.290	0.289	0.3	97	0.00	6.04

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1232-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26490.D
Project: BMSMC, Building 5 Area, PR

38 t	Naphthalene	1.128	1.161	-2.9	101	0.03	5.90
39 t	4-Chloroaniline	0.460	0.457	0.7	98	0.02	5.96
40 t	2,3-Dichloroaniline	0.348	0.368	-5.7	105	0.02	6.99
41 t	Caprolactam	0.189	0.203	-7.4	101	0.08	6.37
42 t	Hexachlorobutadiene	0.151	0.159	-5.3	103	0.00	6.01
43 t	4-Chloro-3-methylphenol	0.347	0.385	-11.0	106	0.05	6.50
44 t	2-Methylnaphthalene	0.606	0.641	-5.8	104	0.01	6.64
45 t	1-Methylnaphthalene	0.622	0.659	-5.9	102	0.00	6.76
46 t	Dimethylnaphthalene	0.635	0.664	-4.6	101	0.02	7.41
47 I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00	7.97
48 t	Hexachlorocyclopentadiene	0.280	0.248	11.4	78	-0.02	6.82
49 t	2,4,6-Trichlorophenol	0.325	0.357	-9.8	102	0.02	6.99
50 t	2,4,5-Trichlorophenol	0.356	0.379	-6.5	98	-0.01	7.05
51 S	2-Fluorobiphenyl	1.290	1.327	-2.9	99	0.00	7.09
52 t	2-Chloronaphthalene	1.142	1.166	-2.1	100	0.00	7.24
53 t	Biphenyl	1.534	1.603	-4.5	101	0.00	7.21
54 t	2-Nitroaniline	0.416	0.541	-30.0#	116	0.03	7.39
55 t	Dimethylphthalate	1.332	1.385	-4.0	101	0.00	7.63
56 t	Acenaphthylene	1.914	2.018	-5.4	101	0.00	7.78
57 t	2,6-Dinitrotoluene	0.273	0.319	-16.8	103	0.02	7.71
58 t	3-Nitroaniline	0.348	0.380	-9.2	100	0.04	7.95
59 t	Acenaphthene	1.207	1.280	-6.0	103	0.00	8.01
	----------	True	Calc.	% Drift	----------		
60 t	2,4-Dinitrophenol	100.000	110.320	-10.3	102	0.02	8.10
	----------	AvgRF	CCRF	% Dev	----------		
61 t	4-Nitrophenol	0.205	0.225	-9.8	96	0.00	8.24
62 t	Dibenzofuran	1.605	1.693	-5.5	104	0.00	8.26
63 t	2,4-Dinitrotoluene	0.367	0.444	-21.0#	106	0.03	8.28
64	2,3,4,6-Tetrachlorophenol	0.253	0.284	-12.3	101	0.03	8.45
65 t	Diethylphthalate	1.356	1.452	-7.1	104	0.02	8.63
66 t	Fluorene	1.344	1.460	-8.6	105	0.00	8.75
67 t	4-Chlorophenyl-phenylethe	0.604	0.627	-3.8	103	0.00	8.77
68 t	4-Nitroaniline	0.365	0.374	-2.5	98	0.07	8.84
69 I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00	10.16
	----------	True	Calc.	% Drift	----------		
70 t	4,6-Dinitro-2-methylpheno	50.000	58.471	-16.9	111	0.04	8.87
	----------	AvgRF	CCRF	% Dev	----------		
71 t	n-Nitrosodiphenylamine	0.559	0.599	-7.2	103	0.00	8.95
72 t	1,2-Diphenylhydrazine	1.005	1.092	-8.7	105	-0.01	9.00
73 S	2,4,6-Tribromophenol	0.100	0.093	7.0	82	0.02	9.11
74 t	4-Bromophenyl-phenylether	0.201	0.202	-0.5	96	0.00	9.49
75 t	Hexachlorobenzene	0.220	0.202	8.2	87	0.00	9.56
76 t	Pentachlorophenol	0.127	0.129	-1.6	86	0.02	9.89
77 t	Phenanthrene	1.160	1.184	-2.1	100	0.00	10.20
78 t	Anthracene	1.149	1.215	-5.7	101	0.00	10.28
79 t	Carbazole	1.082	1.127	-4.2	101	0.03	10.56
80 t	Di-n-butylphthalate	1.361	1.493	-9.7	104	0.00	11.16
81 t	Fluoranthene	1.232	1.273	-3.3	100	0.01	12.06
82 t	Octadecane	0.598	0.716	-19.7	113	0.02	10.07
83 I	Chrysene-d12	1.000	1.000	0.0	91	0.00	14.36
84 t	Pyrene	1.357	1.416	-4.3	100	0.00	12.41
85 S	Terphenyl-d14	0.838	0.853	-1.8	96	-0.02	12.71
86 t	Butylbenzylphthalate	0.598	0.713	-19.2	106	-0.02	13.55

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1232-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26490.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate	0.427	0.540	-26.5#	110	0.01	13.70
88	t	Benzo[a]anthracene	1.188	1.234	-3.9	100	0.00	14.34
89	t	3,3'-Dichlorobenzidine	0.407	0.452	-11.1	97	0.00	14.35
90	t	Chrysene	1.151	1.166	-1.3	96	0.00	14.40
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	50.000	57.267	-14.5	105	0.00	14.50
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	79	0.00	16.47
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	50.000	65.713	-31.4#	105	0.00	15.50
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.265	1.467	-16.0	92	0.01	15.96
95	t	Benzo[k]fluoranthene	1.223	1.274	-4.2	86	0.01	16.00
96	t	Benzo[a]pyrene	1.081	1.198	-10.8	86	-0.01	16.39
97	t	Indeno[1,2,3-cd]pyrene	1.099	1.098	0.1	73	0.02	17.87
98	t	Dibenz(a,h)acridine	0.984	0.977	0.7	72	0.00	17.56
99	t	Dibenz[a,h]anthracene	1.189	1.127	5.2	72	0.00	17.90
100	t	7,12-Dimethylbenz(a)anthr	0.528	0.603	-14.2	86	0.00	15.95
101	t	Benzo[g,h,i]perylene	1.191	1.101	7.6	71	0.00	18.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Tue May 31 10:38:06 2016 ACLIMS

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1232-CC1210
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26491.D
Project: BMSMC, Building 5 Area, PR

```
                    Evaluate Continuing Calibration Report

  Data File : C:\msdchem\1\DATA\e6p1232\6p26491.D          Vial: 3
  Acq On    : 31 May 2016   9:17 am                    Operator: ariellec
  Sample    : cc1210-50                                Inst    : MS6P
  Misc      : op94071,e6p1232                          Multiplr: 1.00
  MS Integration Params: lscint.p

  Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
  Last Update  : Tue May 31 09:12:53 2016
  Response via : Multiple Level Calibration

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

        Compound                   AvgRF   CCRF      %Dev Area%  Dev(min)R.T.
  ---------------------------------------------------------------------------
102     1,4-Dichlorobenzene-d4     1.000   1.000      0.0   90   0.00    4.76
103     Benzaldehyde               1.205   1.154      4.2   87   0.00    4.44

104     Acenaphthene-d10a          1.000   1.000      0.0   94   0.00    7.97
105     1,2,4,5-Tetrachlorobenzen  0.496   0.472      4.8   92  -0.01    6.83

106     Phenanthrene-d10a          1.000   1.000      0.0   98   0.00   10.15
107     Atrazine                   0.100   0.108     -8.0   98   0.01    9.80

108 I   Chrysene-d12a              1.000   1.000      0.0   99  -0.01   14.35

            ----------------------- True    Calc.   % Drift  ------------
109 T   benzidine                 50.000  61.077    -22.2# 126  -0.02   12.33


            ----------------------- AvgRF   CCRF     % Dev   -------------
110 I   Naphthalene-d8a            1.000   1.000      0.0   91   0.00    5.87
111 T   Hydroquinone               0.378   0.368      2.6   89   0.07    6.33
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     6p25940a.D M6P1209.M        Tue May 31 10:38:08 2016   ACLIMS
```

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1236-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26623.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1236\6p26623.D Vial: 2
Acq On : 2 Jun 2016 10:35 pm Operator: seanb1
Sample : cc1209-50 Inst : MS6P
Misc : op94071,e6p1236 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
Last Update : Thu Jun 02 09:54:12 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	4.79
2	t	1,4-Dioxane	0.710	0.542	23.7#	69	-0.06	2.36
3	t	Pyridine	1.798	1.573	12.5	75	-0.04	2.68
4	t	N-Nitrosodimethylamine	1.074	0.909	15.4	73	-0.04	2.65
5	S	2-Fluorophenol	1.524	1.324	13.1	77	0.02	3.81
6	t	Indene	2.721	2.879	-5.8	94	0.00	4.99
7	t	Cumene	3.861	4.148	-7.4	96	-0.02	4.17
8	S	Phenol-d5	1.995	1.982	0.7	88	0.02	4.54
9	t	Phenol	2.140	2.306	-7.8	94	0.01	4.55
10		Aniline	2.427	2.578	-6.2	100	0.01	4.54
11	t	bis(2-Chloroethyl)ether	1.521	1.458	4.1	85	0.01	4.58
12	t	2-Chlorophenol	1.551	1.604	-3.4	92	0.01	4.64
13	t	Decane	1.990	2.138	-7.4	99	-0.01	4.64
14	t	1,3-Dichlorobenzene	1.624	1.600	1.5	88	0.00	4.74
15	t	1,4-Dichlorobenzene	1.646	1.637	0.5	89	0.00	4.80
16	t	Benzyl alcohol	1.060	1.082	-2.1	90	0.01	4.91
17	t	1,2-Dichlorobenzene	1.559	1.555	0.3	90	0.00	4.92
18	t	Acetophenone	2.246	2.497	-11.2	100	0.00	5.11
19	t	2-Methylphenol	1.477	1.478	-0.1	89	0.03	5.01
20	t	2,2'-oxybis(1-Chloropropa	0.544	0.551	-1.3	91	0.00	5.00
21	t	3&4-Methylphenol	1.558	1.579	-1.3	89	0.04	5.13
22	t	n-Nitroso-di-n-propylamin	1.339	1.495	-11.7	101	0.00	5.11
23	t	Hexachloroethane	0.490	0.489	0.2	87	0.00	5.19
24	I	Naphthalene-d8	1.000	1.000	0.0	82	-0.02	5.90
25	S	Nitrobenzene-d5	0.446	0.488	-9.4	95	0.00	5.25
26	t	Nitrobenzene	0.466	0.510	-9.4	96	0.00	5.26
27	t	Quinoline	0.746	0.766	-2.7	89	0.00	6.28
28	t	Isophorone	0.791	0.836	-5.7	94	0.00	5.47
29	t	2-Nitrophenol	0.197	0.220	-11.7	96	0.00	5.54
30	t	2,4-Dimethylphenol	0.365	0.428	-17.3	99	0.01	5.58
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	50.000	61.972	-23.9#	104	0.09	5.72
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.447	0.441	1.3	87	0.00	5.66
33	t	2,4-Dichlorophenol	0.281	0.285	-1.4	88	-0.01	5.78
34	t	2,6-Dichlorophenol	0.270	0.287	-6.3	92	0.00	5.99
35		1,3,5-Trichlorobenzene	0.308	0.314	-1.9	88	-0.02	5.54
36	t	1,2,4-Trichlorobenzene	0.295	0.292	1.0	85	-0.02	5.84
37		1,2,3-Trichlorobenzene	0.290	0.292	-0.7	87	-0.01	6.07

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1236-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26623.D
Project: BMSMC, Building 5 Area, PR

38	t	Naphthalene	1.128	1.136	-0.7	88	0.01	5.92
39	t	4-Chloroaniline	0.460	0.476	-3.5	91	0.00	5.99
40	t	2,3-Dichloroaniline	0.348	0.369	-6.0	94	0.00	7.01
41	t	Caprolactam	0.189	0.211	-11.6	94	0.05	6.39
42	t	Hexachlorobutadiene	0.151	0.158	-4.6	91	-0.02	6.03
43	t	4-Chloro-3-methylphenol	0.347	0.399	-15.0	98	0.03	6.53
44	t	2-Methylnaphthalene	0.606	0.636	-5.0	92	-0.02	6.67
45	t	1-Methylnaphthalene	0.622	0.678	-9.0	94	-0.01	6.78
46	t	Dimethylnaphthalene	0.635	0.670	-5.5	91	0.00	7.44
47	I	Acenaphthene-d10	1.000	1.000	0.0	83	-0.02	8.00
48	t	Hexachlorocyclopentadiene	0.280	0.229	18.2	65	-0.03	6.84
49	t	2,4,6-Trichlorophenol	0.325	0.353	-8.6	91	0.01	7.02
50	t	2,4,5-Trichlorophenol	0.356	0.368	-3.4	86	-0.02	7.08
51	S	2-Fluorobiphenyl	1.290	1.306	-1.2	88	-0.02	7.11
52	t	2-Chloronaphthalene	1.142	1.141	0.1	88	-0.01	7.26
53	t	Biphenyl	1.534	1.603	-4.5	91	-0.02	7.24
54	t	2-Nitroaniline	0.416	0.563	-35.3#	108	0.01	7.42
55	t	Dimethylphthalate	1.332	1.370	-2.9	90	-0.01	7.65
56	t	Acenaphthylene	1.914	2.002	-4.6	90	-0.01	7.80
57	t	2,6-Dinitrotoluene	0.273	0.318	-16.5	92	0.00	7.74
58	t	3-Nitroaniline	0.348	0.369	-6.0	88	0.02	7.98
59	t	Acenaphthene	1.207	1.250	-3.6	91	-0.02	8.04
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	105.098	-5.1	87	0.00	8.13
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.205	0.237	-15.6	91	0.00	8.28
62	t	Dibenzofuran	1.605	1.673	-4.2	92	-0.01	8.29
63	t	2,4-Dinitrotoluene	0.367	0.449	-22.3#	97	0.02	8.31
64		2,3,4,6-Tetrachlorophenol	0.253	0.271	-7.1	87	0.02	8.48
65	t	Diethylphthalate	1.356	1.491	-10.0	96	0.00	8.66
66	t	Fluorene	1.344	1.448	-7.7	93	-0.02	8.78
67	t	4-Chlorophenyl-phenylethe	0.604	0.614	-1.7	91	-0.01	8.79
68	t	4-Nitroaniline	0.365	0.371	-1.6	87	0.05	8.86
69	I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.02	10.19
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	57.881	-15.8	98	0.02	8.90
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.559	0.583	-4.3	90	-0.02	8.98
72	t	1,2-Diphenylhydrazine	1.005	1.120	-11.4	97	-0.03	9.03
73	S	2,4,6-Tribromophenol	0.100	0.088	12.0	71	0.00	9.14
74	t	4-Bromophenyl-phenylether	0.201	0.200	0.5	86	-0.03	9.52
75	t	Hexachlorobenzene	0.220	0.203	7.7	79	-0.02	9.59
76	t	Pentachlorophenol	0.127	0.120	5.5	73	0.01	9.93
77	t	Phenanthrene	1.160	1.162	-0.2	88	-0.01	10.23
78	t	Anthracene	1.149	1.197	-4.2	90	-0.01	10.31
79	t	Carbazole	1.082	1.127	-4.2	90	0.00	10.59
80	t	Di-n-butylphthalate	1.361	1.512	-11.1	95	-0.02	11.19
81	t	Fluoranthene	1.232	1.238	-0.5	88	0.00	12.10
82	t	Octadecane	0.598	0.741	-23.9#	105	0.00	10.10
83	I	Chrysene-d12	1.000	1.000	0.0	83	-0.01	14.39
84	t	Pyrene	1.357	1.344	1.0	87	0.00	12.45
85	S	Terphenyl-d14	0.838	0.812	3.1	83	-0.03	12.75
86	t	Butylbenzylphthalate	0.598	0.714	-19.4	96	-0.04	13.58

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1236-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26623.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate		----------NA----------				
88	t	Benzo[a]anthracene	1.188	1.209	-1.8	90	-0.01	14.38
89	t	3,3'-Dichlorobenzidine	0.407	0.451	-10.8	88	-0.01	14.38
90	t	Chrysene	1.151	1.112	3.4	84	0.00	14.44
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	50.000	56.907	-13.8	95	-0.02	14.52
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	69	-0.02	16.51
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	50.000	69.050	-38.1#	95	-0.02	15.52
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.265	1.417	-12.0	77	0.00	16.00
95	t	Benzo[k]fluoranthene	1.223	1.282	-4.8	75	0.00	16.04
96	t	Benzo[a]pyrene	1.081	1.196	-10.6	74	-0.02	16.44
97	t	Indeno[1,2,3-cd]pyrene	1.099	1.115	-1.5	64	0.00	17.92
98	t	Dibenz(a,h)acridine	0.984	1.004	-2.0	64	-0.01	17.61
99	t	Dibenz[a,h]anthracene	1.189	1.141	4.0	63	-0.01	17.95
100	t	7,12-Dimethylbenz(a)anthr	0.528	0.654	-23.9#	81	-0.02	15.99
101	t	Benzo[g,h,i]perylene	1.191	1.125	5.5	63	0.00	18.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Fri Jun 03 08:10:56 2016 ACLIMS

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1236-CC1210
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26624.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E6P1236\6p26624.D Vial: 3
Acq On : 2 Jun 2016 11:02 pm Operator: seanb1
Sample : cc1210-50 Inst : MS6P
Misc : op94071,e6p1236 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
Last Update : Thu Jun 02 09:54:12 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	88	-0.01	4.78
103	Benzaldehyde	1.205	1.168	3.1	86	0.00	4.46
104	Acenaphthene-d10a	1.000	1.000	0.0	95	-0.02	7.99
105	1,2,4,5-Tetrachlorobenzen	0.496	0.471	5.0	93	-0.02	6.86
106	Phenanthrene-d10a	1.000	1.000	0.0	98	-0.02	10.18
107	Atrazine	0.100	0.112	-12.0	102	0.00	9.83
108 I	Chrysene-d12a	1.000	1.000	0.0	102	-0.02	14.38
	----------	True	Calc.	% Drift	----------		
109 T	benzidine	50.000	57.485	-15.0	120	-0.02	12.37
	----------	AvgRF	CCRF	% Dev	----------		
110 I	Naphthalene-d8a	1.000	1.000	0.0	90	-0.02	5.90
111 T	Hydroquinone	0.378	0.397	-5.0	95	0.05	6.36

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25940a.D M6P1209.M Fri Jun 03 08:10:59 2016 ACLIMS

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1239-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26700.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\e6p1239\6p26700.D Vial: 2
Acq On : 6 Jun 2016 8:44 am Operator: ariellec
Sample : cc1209-25 Inst : MS6P
Misc : op94071,e6p1239 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:29:27 2016
Last Update : Mon Jun 06 10:29:27 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	96	0.00	4.76
2	t	1,4-Dioxane	0.710	0.542	23.7#	77	-0.07	2.33
3	t	Pyridine	1.798	1.493	17.0	82	-0.05	2.65
4	t	N-Nitrosodimethylamine	1.074	0.847	21.1#	77	-0.05	2.62
5	S	2-Fluorophenol	1.524	1.272	16.5	83	0.01	3.78
6	t	Indene	2.721	2.731	-0.4	97	0.00	4.96
7	t	Cumene	3.861	3.947	-2.2	99	-0.01	4.15
8	S	Phenol-d5	1.995	1.813	9.1	89	0.02	4.50
9	t	Phenol	2.140	2.113	1.3	97	0.01	4.51
10		Aniline	2.427	2.326	4.2	100	0.02	4.51
11	t	bis(2-Chloroethyl)ether	1.521	1.379	9.3	89	0.02	4.55
12	t	2-Chlorophenol	1.551	1.502	3.2	94	0.02	4.61
13	t	Decane	1.990	1.875	5.8	94	0.00	4.61
14	t	1,3-Dichlorobenzene	1.624	1.557	4.1	94	0.00	4.71
15	t	1,4-Dichlorobenzene	1.646	1.596	3.0	96	0.00	4.77
16	t	Benzyl alcohol	1.060	0.978	7.7	90	0.02	4.87
17	t	1,2-Dichlorobenzene	1.559	1.500	3.8	97	0.00	4.89
18	t	Acetophenone	2.246	2.238	0.4	99	0.01	5.08
19	t	2-Methylphenol	1.477	1.390	5.9	93	0.04	4.97
20	t	2,2'-oxybis(1-Chloropropa	0.544	0.519	4.6	94	0.00	4.97
21	t	3&4-Methylphenol	1.558	1.466	5.9	92	0.04	5.10
22	t	n-Nitroso-di-n-propylamin	1.339	1.309	2.2	98	0.00	5.08
23	t	Hexachloroethane	0.490	0.479	2.2	96	0.00	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	5.87
25	S	Nitrobenzene-d5	0.446	0.455	-2.0	97	0.00	5.21
26	t	Nitrobenzene	0.466	0.473	-1.5	96	0.00	5.23
27	t	Quinoline	0.746	0.725	2.8	92	0.01	6.24
28	t	Isophorone	0.791	0.775	2.0	94	0.00	5.43
29	t	2-Nitrophenol	0.197	0.207	-5.1	98	0.00	5.51
30	t	2,4-Dimethylphenol	0.365	0.394	-7.9	104	0.02	5.55
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	25.000	32.795	-31.2#	129	0.07	5.67
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.447	0.415	7.2	89	0.00	5.63
33	t	2,4-Dichlorophenol	0.281	0.278	1.1	95	0.00	5.74
34	t	2,6-Dichlorophenol	0.270	0.277	-2.6	96	0.01	5.95
35		1,3,5-Trichlorobenzene	0.308	0.313	-1.6	97	0.00	5.51
36	t	1,2,4-Trichlorobenzene	0.295	0.293	0.7	94	0.00	5.81
37		1,2,3-Trichlorobenzene	0.290	0.284	2.1	93	0.00	6.03

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1239-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26700.D
Project: BMSMC, Building 5 Area, PR

38	t	Naphthalene	1.128	1.091	3.3	93	0.03	5.89
39	t	4-Chloroaniline	0.460	0.440	4.3	91	0.01	5.95
40	t	2,3-Dichloroaniline	0.348	0.353	-1.4	96	0.02	6.98
41	t	Caprolactam	0.189	0.178	5.8	87	0.04	6.33
42	t	Hexachlorobutadiene	0.151	0.158	-4.6	98	-0.01	6.00
43	t	4-Chloro-3-methylphenol	0.347	0.366	-5.5	99	0.04	6.48
44	t	2-Methylnaphthalene	0.606	0.617	-1.8	96	0.00	6.63
45	t	1-Methylnaphthalene	0.622	0.654	-5.1	99	0.00	6.75
46	t	Dimethylnaphthalene	0.635	0.646	-1.7	95	0.01	7.40
47	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00	7.95
48	t	Hexachlorocyclopentadiene	0.280	0.166	40.7#	52	-0.02	6.80
49	t	2,4,6-Trichlorophenol	0.325	0.348	-7.1	97	0.02	6.98
50	t	2,4,5-Trichlorophenol	0.356	0.355	0.3	91	-0.01	7.03
51	S	2-Fluorobiphenyl	1.290	1.304	-1.1	95	0.00	7.07
52	t	2-Chloronaphthalene	1.142	1.122	1.8	92	0.00	7.22
53	t	Biphenyl	1.534	1.598	-4.2	97	0.00	7.19
54	t	2-Nitroaniline	0.416	0.507	-21.9#	106	0.02	7.37
55	t	Dimethylphthalate	1.332	1.331	0.1	94	0.00	7.61
56	t	Acenaphthylene	1.914	1.957	-2.2	94	0.00	7.76
57	t	2,6-Dinitrotoluene	0.273	0.300	-9.9	96	0.02	7.70
58	t	3-Nitroaniline	0.348	0.340	2.3	86	0.03	7.93
59	t	Acenaphthene	1.207	1.208	-0.1	94	0.00	8.00
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	46.425	7.2	85	0.02	8.09
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.205	0.194	5.4	83	0.01	8.23
62	t	Dibenzofuran	1.605	1.654	-3.1	97	0.00	8.24
63	t	2,4-Dinitrotoluene	0.367	0.422	-15.0	98	0.04	8.26
64		2,3,4,6-Tetrachlorophenol	0.253	0.264	-4.3	96	0.03	8.44
65	t	Diethylphthalate	1.356	1.387	-2.3	94	0.01	8.61
66	t	Fluorene	1.344	1.380	-2.7	95	0.00	8.74
67	t	4-Chlorophenyl-phenylethe	0.604	0.603	0.2	94	0.01	8.75
68	t	4-Nitroaniline	0.365	0.327	10.4	83	0.06	8.81
69	I	Phenanthrene-d10	1.000	1.000	0.0	92	0.00	10.14
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	28.203	-12.8	105	0.03	8.85
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.559	0.558	0.2	92	0.00	8.93
72	t	1,2-Diphenylhydrazine	1.005	1.009	-0.4	93	-0.01	8.99
73	S	2,4,6-Tribromophenol	0.100	0.084	16.0	77	0.02	9.10
74	t	4-Bromophenyl-phenylether	0.201	0.194	3.5	90	-0.01	9.48
75	t	Hexachlorobenzene	0.220	0.195	11.4	83	0.00	9.55
76	t	Pentachlorophenol	0.127	0.105	17.3	75	0.03	9.88
77	t	Phenanthrene	1.160	1.126	2.9	92	0.00	10.18
78	t	Anthracene	1.149	1.153	-0.3	94	0.00	10.26
79	t	Carbazole	1.082	1.071	1.0	93	0.03	10.54
80	t	Di-n-butylphthalate	1.361	1.376	-1.1	92	0.01	11.15
81	t	Fluoranthene	1.232	1.193	3.2	91	0.02	12.05
82	t	Octadecane	0.598	0.663	-10.9	99	0.02	10.06
83	I	Chrysene-d12	1.000	1.000	0.0	85	0.00	14.35
84	t	Pyrene	1.357	1.386	-2.1	89	0.00	12.40
85	S	Terphenyl-d14	0.838	0.832	0.7	86	-0.02	12.70
86	t	Butylbenzylphthalate	0.598	0.679	-13.5	96	-0.03	13.53

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1239-CC1209
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26700.D
Project: BMSMC, Building 5 Area, PR

87		Butyl stearate		----------NA----------				
88	t	Benzo[a]anthracene	1.188	1.203	-1.3	90	0.00	14.32
89	t	3,3'-Dichlorobenzidine	0.407	0.436	-7.1	90	0.00	14.34
90	t	Chrysene	1.151	1.109	3.6	85	0.00	14.38
		----------	True	Calc.	% Drift	----------		
91	t	bis(2-Ethylhexyl)phthalat	25.000	26.826	-7.3	94	0.00	14.48
		----------	AvgRF	CCRF	% Dev	----------		
92	I	Perylene-d12	1.000	1.000	0.0	70	0.00	16.46
		----------	True	Calc.	% Drift	----------		
93	t	Di-n-octylphthalate	25.000	31.723	-26.9#	96	0.00	15.47
		----------	AvgRF	CCRF	% Dev	----------		
94	t	Benzo[b]fluoranthene	1.265	1.354	-7.0	77	0.00	15.94
95	t	Benzo[k]fluoranthene	1.223	1.203	1.6	70	0.00	15.98
96	t	Benzo[a]pyrene	1.081	1.148	-6.2	75	-0.01	16.38
97	t	Indeno[1,2,3-cd]pyrene	1.099	1.007	8.4	63	0.01	17.85
98	t	Dibenz(a,h)acridine	0.984	0.932	5.3	63	0.00	17.55
99	t	Dibenz[a,h]anthracene	1.189	1.063	10.6	61	0.00	17.88
100	t	7,12-Dimethylbenz(a)anthr	0.528	0.601	-13.8	77	0.00	15.93
101	t	Benzo[g,h,i]perylene	1.191	1.026	13.9	59	0.00	18.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25941a.D M6P1209.M Mon Jun 06 10:33:36 2016 ACLIMS

6.7.28

6

Continuing Calibration Summary

Job Number: JC21229 **Sample:** E6P1239-CC1210
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 6P26701.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\e6p1239\6p26701.D          Vial: 3
Acq On    :  6 Jun 2016   9:11 am                    Operator: ariellec
Sample    : cc1210-25                                Inst    : MS6P
Misc      : op94071,e6p1239                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M6P1209.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:29:27 2016
Last Update  : Mon Jun 06 10:29:27 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
102	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	95	0.00	4.76
103	Benzaldehyde	1.205	1.110	7.9	89	0.00	4.43
104	Acenaphthene-d10a	1.000	1.000	0.0	95	0.00	7.95
105	1,2,4,5-Tetrachlorobenzen	0.496	0.488	1.6	97	-0.01	6.82
106	Phenanthrene-d10a	1.000	1.000	0.0	98	0.00	10.14
107	Atrazine	0.100	0.107	-7.0	104	0.01	9.78
108 I	Chrysene-d12a	1.000	1.000	0.0	95	0.00	14.34
	----------	True	Calc.	% Drift		----------	
109 T	benzidine	25.000	27.540	-10.2	120	-0.02	12.32
	----------	AvgRF	CCRF	% Dev		----------	
110 I	Naphthalene-d8a	1.000	1.000	0.0	96	0.00	5.86
111 T	Hydroquinone	0.378	0.359	5.0	89	0.06	6.32

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6p25941a.D M6P1209.M Mon Jun 06 10:33:38 2016 ACLIMS

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26712.D
Acq On : 6 Jun 2016 3:34 pm
Operator : ariellec
Sample : jc21229-1
Misc : op94419,e6p1239,30.4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 06 16:02:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:39:05 2016
QLast Update : Mon Jun 06 10:39:05 2016
Response via : Initial Calibration

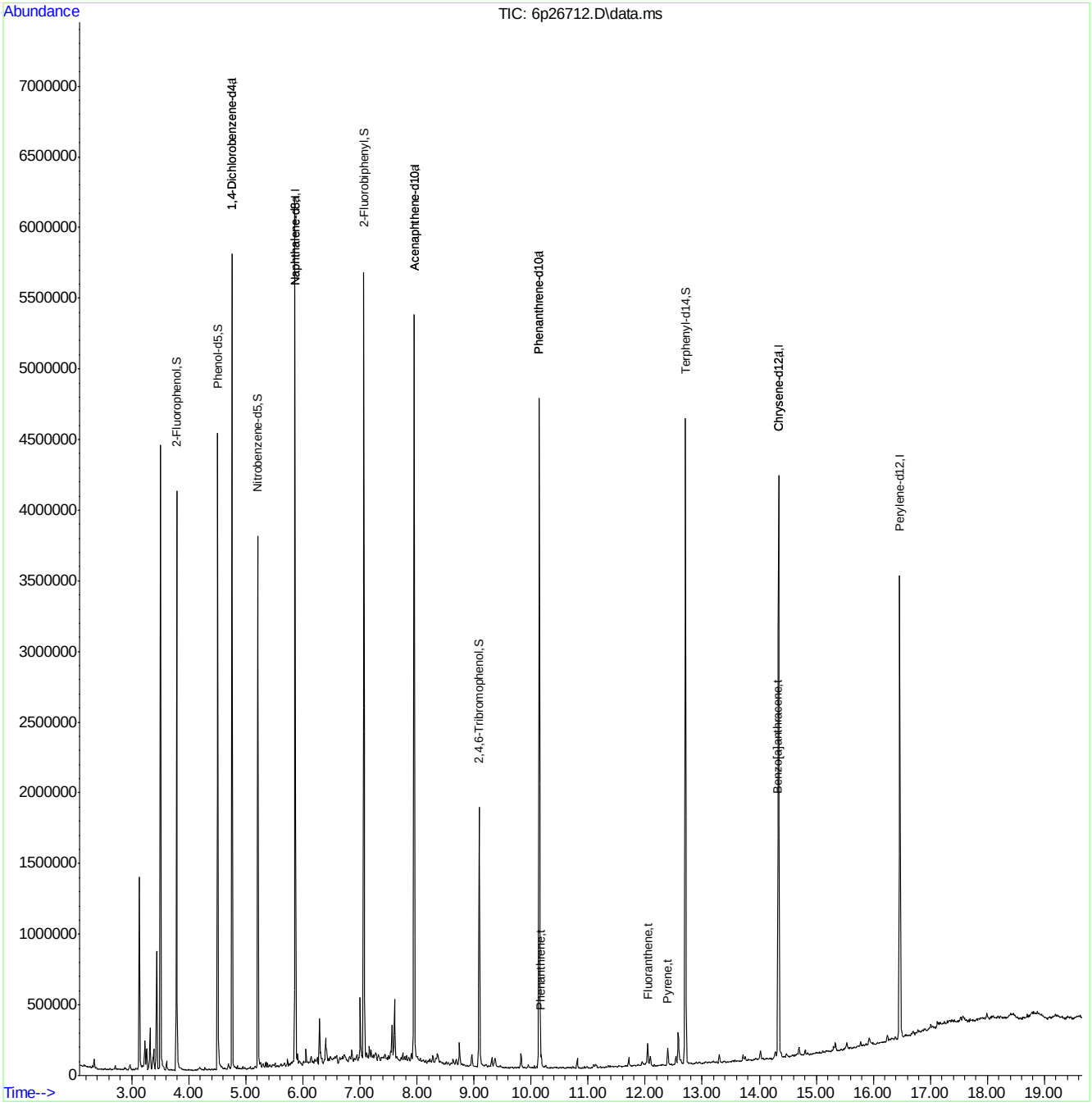
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.756	152	605730	40.00	ppm	0.00
24) Naphthalene-d8	5.863	136	2389756	40.00	ppm	0.00
47) Acenaphthene-d10	7.954	164	1240765	40.00	ppm	0.00
69) Phenanthrene-d10	10.142	188	1954510	40.00	ppm	0.00
83) Chrysene-d12	14.341	240	1569586	40.00	ppm	0.00
92) Perylene-d12	16.464	264	1236693	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.756	152	605730	40.00	ppm	0.00
104) Acenaphthene-d10a	7.954	164	1240765	40.00	ppm	0.00
106) Phenanthrene-d10a	10.142	188	1954510	40.00	ppm	0.00
108) Chrysene-d12a	14.341	240	1569586	40.00	ppm	0.00
110) Naphthalene-d8a	5.863	136	2389756	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	790723	34.26	ppm	0.02
Spiked Amount 50.000			Recovery = 68.52%			
8) Phenol-d5	4.504	99	1042744	34.51	ppm	0.02
Spiked Amount 50.000			Recovery = 69.02%			
25) Nitrobenzene-d5	5.210	82	1046272	39.26	ppm	0.00
Spiked Amount 50.000			Recovery = 78.52%			
51) 2-Fluorobiphenyl	7.072	172	1698893	42.47	ppm	0.00
Spiked Amount 50.000			Recovery = 84.94%			
73) 2,4,6-Tribromophenol	9.094	330	165977	33.89	ppm	0.02
Spiked Amount 50.000			Recovery = 67.78%			
85) Terphenyl-d14	12.704	244	1487763	45.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 90.50%			
Target Compounds						Qvalue
77) Phenanthrene	10.174	178	36569	0.65	ppm	96
81) Fluoranthene	12.046	202	69748	1.16	ppm	98
84) Pyrene	12.394	202	50902	0.96	ppm	94
88) Benzo[a]anthracene	14.330	228	19128	0.41	ppm	91

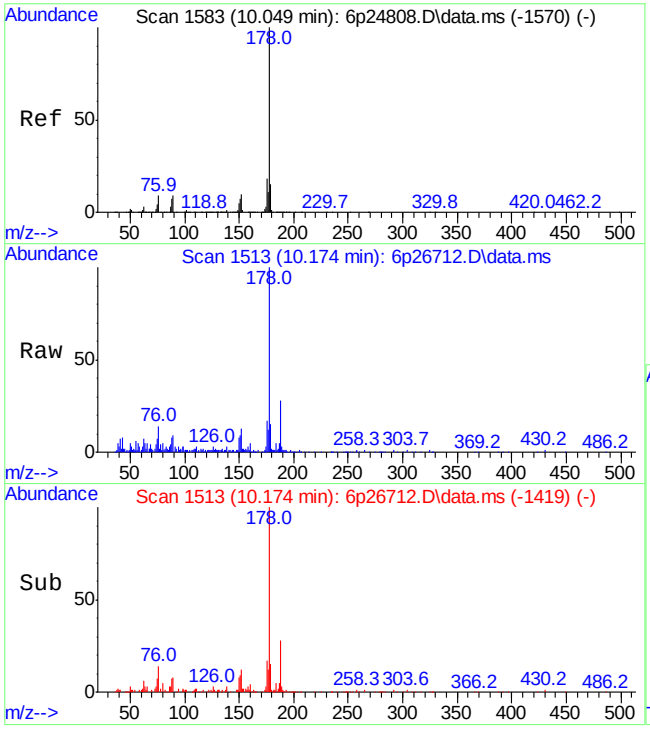
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26712.D
Acq On : 6 Jun 2016 3:34 pm
Operator : ariellec
Sample : jc21229-1
Misc : op94419,e6p1239,30.4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 06 16:02:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:39:05 2016
QLast Update : Mon Jun 06 10:39:05 2016
Response via : Initial Calibration

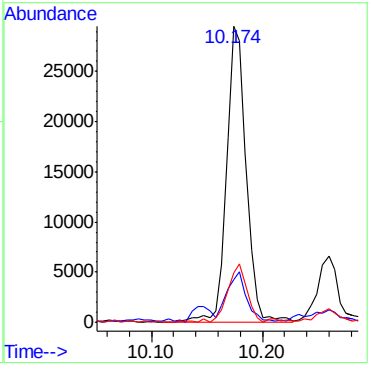


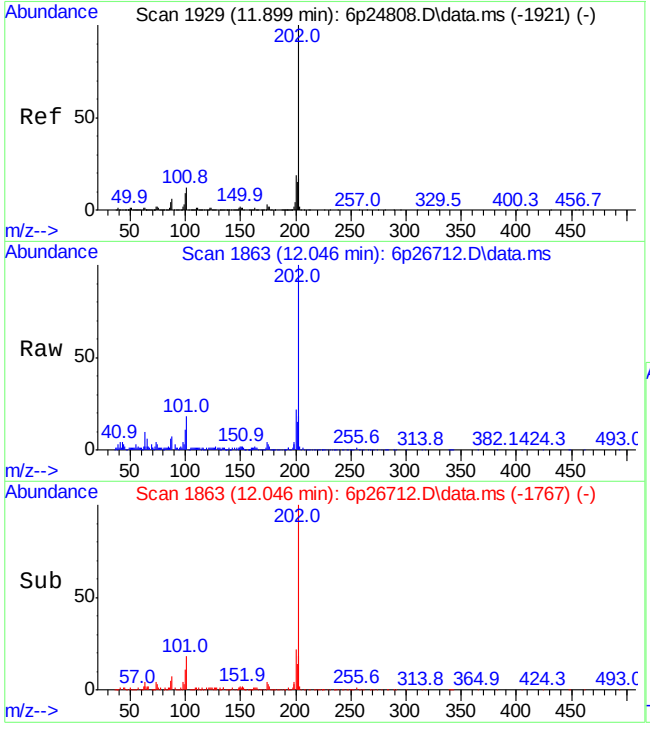


#77
Phenanthrene
Concen: 0.65 ppm
RT: 10.174 min Scan# 1513
Delta R.T. 0.000 min
Lab File: 6p26712.D
Acq: 6 Jun 2016 3:34 pm

Tgt Ion:178 Resp: 36569

Ion	Ratio	Lower	Upper
178	100		
179	13.0	0.0	45.0
176	16.5	0.0	48.4

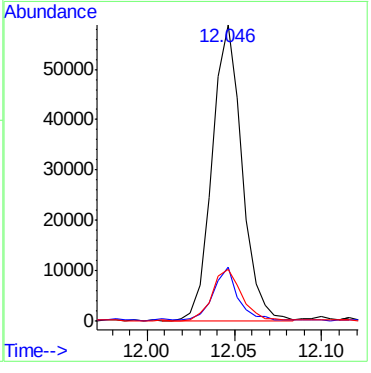


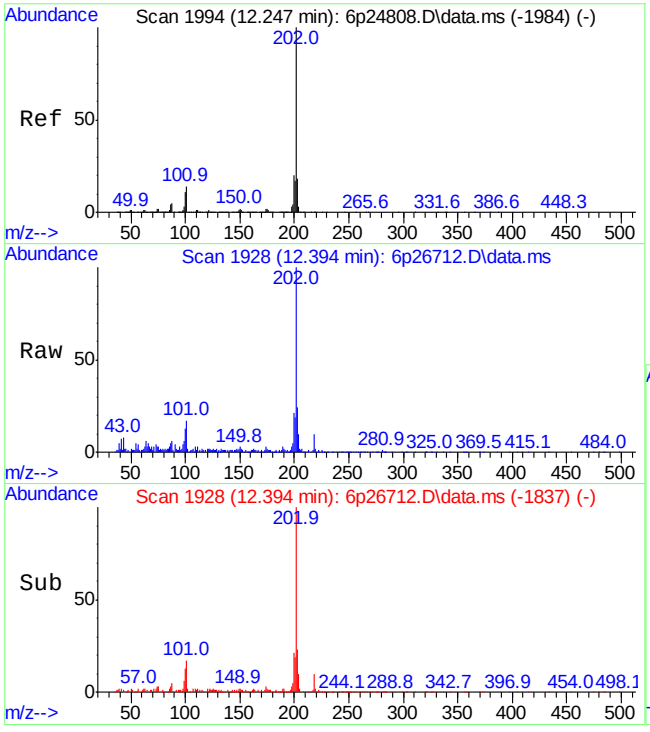


#81
Fluoranthene
Concen: 1.16 ppm
RT: 12.046 min Scan# 1863
Delta R.T. 0.015 min
Lab File: 6p26712.D
Acq: 6 Jun 2016 3:34 pm

Tgt Ion:202 Resp: 69748

Ion	Ratio	Lower	Upper
202	100		
101	17.6	0.0	45.8
203	17.2	0.0	47.2

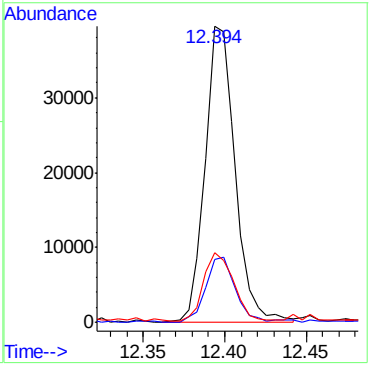


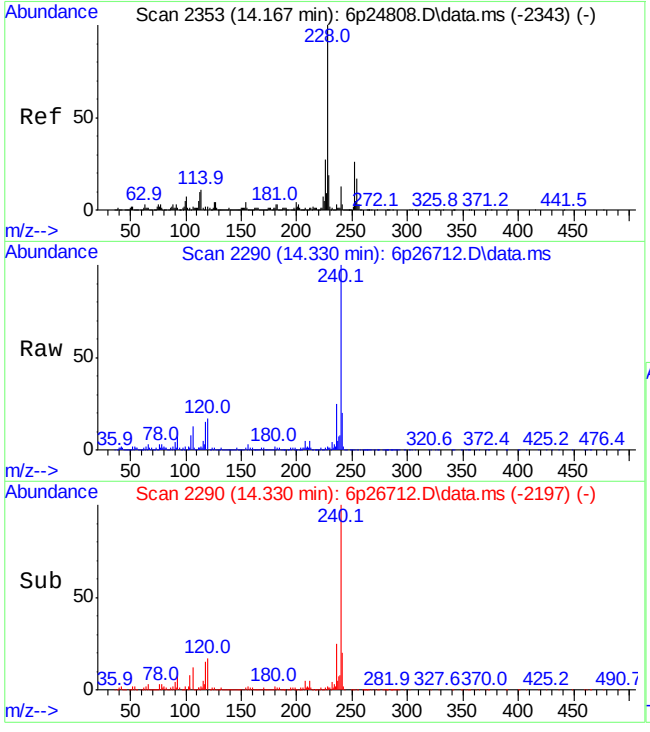


#84
Pyrene
Concen: 0.96 ppm
RT: 12.394 min Scan# 1928
Delta R.T. -0.011 min
Lab File: 6p26712.D
Acq: 6 Jun 2016 3:34 pm

Tgt Ion:202 Resp: 50902

Ion	Ratio	Lower	Upper
202	100		
200	21.2	0.0	49.9
203	22.2	0.0	48.3

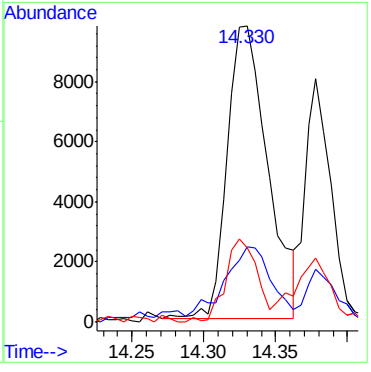




#88
Benzo[a]anthracene
Concen: 0.41 ppm
RT: 14.330 min Scan# 2290
Delta R.T. 0.000 min
Lab File: 6p26712.D
Acq: 6 Jun 2016 3:34 pm

Tgt Ion:228 Resp: 19128

Ion	Ratio	Lower	Upper
228	100		
229	24.8	0.0	49.8
226	22.2	0.0	56.5



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26713.D
Acq On : 6 Jun 2016 4:01 pm
Operator : ariellec
Sample : jc21229-2
Misc : op94419,e6p1239,15.1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 06 16:22:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:39:05 2016
QLast Update : Mon Jun 06 10:39:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.756	152	646315	40.00	ppm	0.00
24) Naphthalene-d8	5.868	136	2504581	40.00	ppm	0.00
47) Acenaphthene-d10	7.954	164	1256814	40.00	ppm	0.00
69) Phenanthrene-d10	10.147	188	2016560	40.00	ppm	0.00
83) Chrysene-d12	14.341	240	1691705	40.00	ppm	0.00
92) Perylene-d12	16.464	264	1337028	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.756	152	646315	40.00	ppm	0.00
104) Acenaphthene-d10a	7.954	164	1256814	40.00	ppm	0.00
106) Phenanthrene-d10a	10.147	188	2016560	40.00	ppm	0.00
108) Chrysene-d12a	14.341	240	1691705	40.00	ppm	0.00
110) Naphthalene-d8a	5.868	136	2504581	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	795261	32.29	ppm	0.02
Spiked Amount 50.000			Recovery	=	64.58%	
8) Phenol-d5	4.505	99	1030324	31.96	ppm	0.02
Spiked Amount 50.000			Recovery	=	63.92%	
25) Nitrobenzene-d5	5.211	82	1061175	38.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	76.00%	
51) 2-Fluorobiphenyl	7.072	172	1634460	40.34	ppm	0.00
Spiked Amount 50.000			Recovery	=	80.68%	
73) 2,4,6-Tribromophenol	9.099	330	156887	31.05	ppm	0.02
Spiked Amount 50.000			Recovery	=	62.10%	
85) Terphenyl-d14	12.704	244	1474328	41.60	ppm	-0.02
Spiked Amount 50.000			Recovery	=	83.20%	
Target Compounds						Qvalue
84) Pyrene	12.399	202	53572	0.93	ppm	89
88) Benzo[a]anthracene	14.325	228	60496	1.20	ppm	98
90) Chrysene	14.378	228	26088	0.54	ppm	97
94) Benzo[b]fluoranthene	15.940	252	35523	0.84	ppm	92
96) Benzo[a]pyrene	16.384	252	24235	0.67	ppm	71

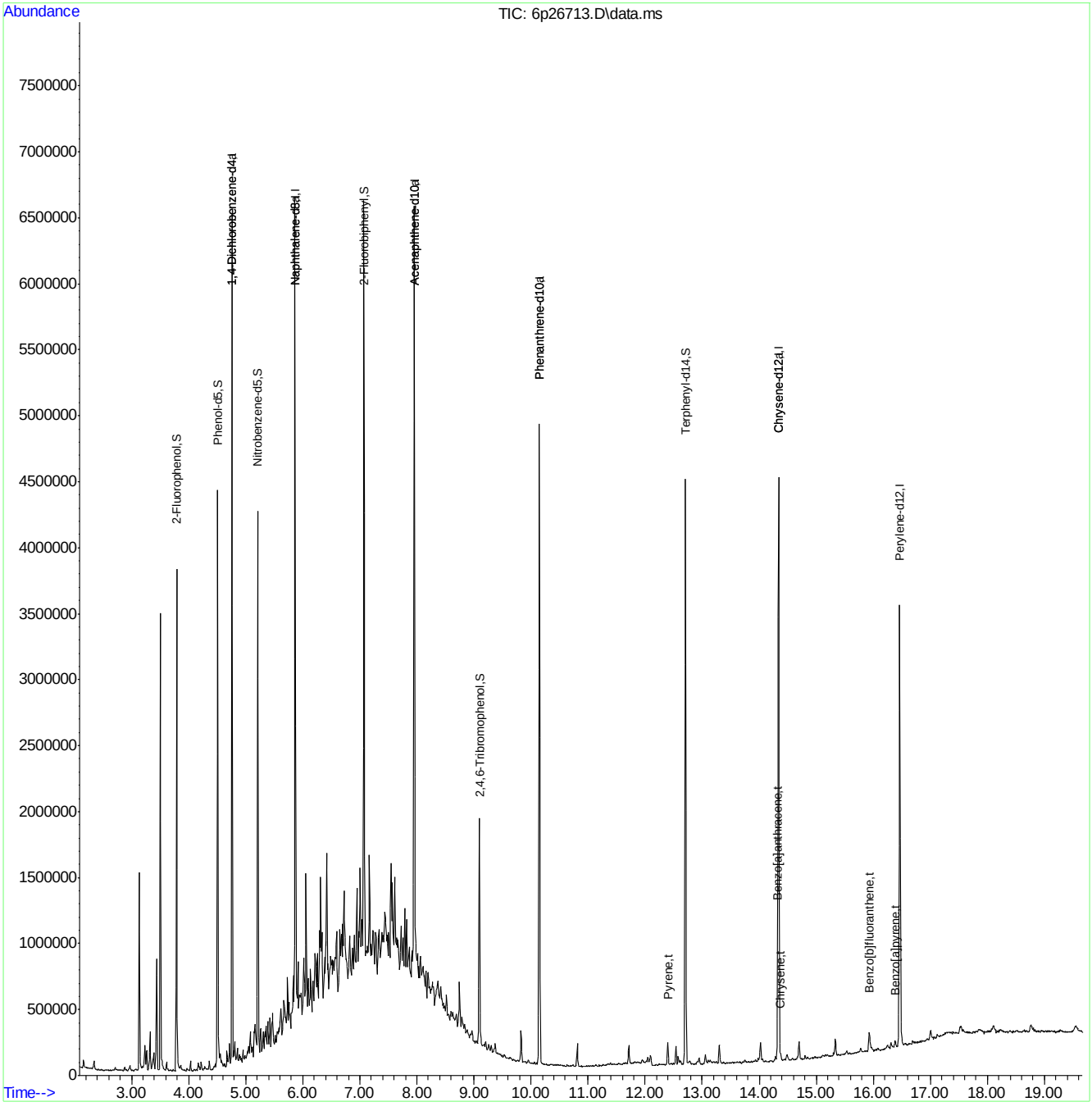
(#) = qualifier out of range (m) = manual integration (+) = signals summed

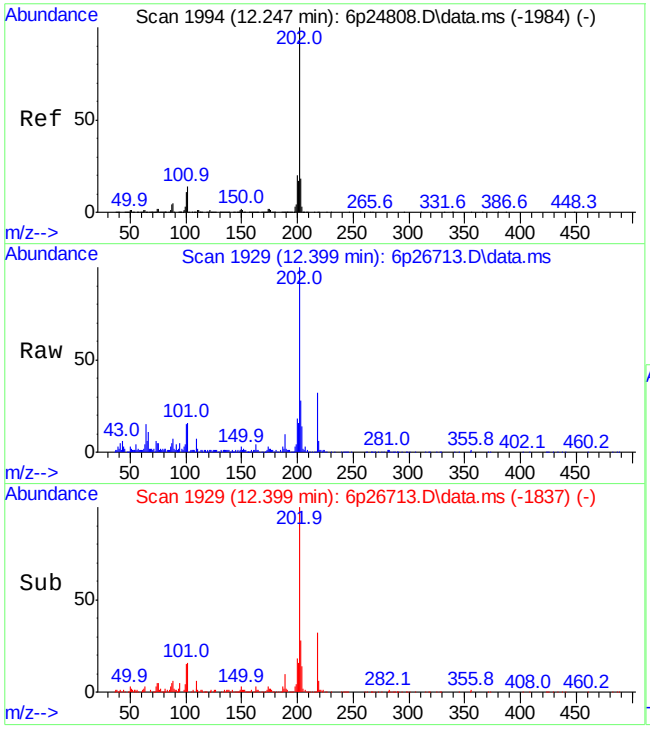
SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26713.D
Acq On : 6 Jun 2016 4:01 pm
Operator : ariellec
Sample : jc21229-2
Misc : op94419,e6p1239,15.1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 06 16:22:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:39:05 2016
QLast Update : Mon Jun 06 10:39:05 2016
Response via : Initial Calibration

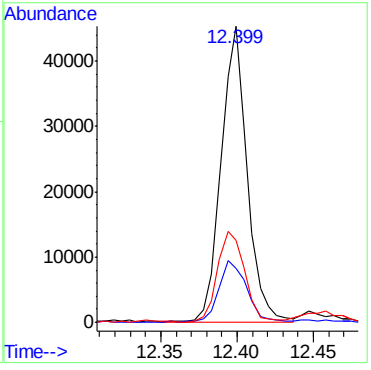


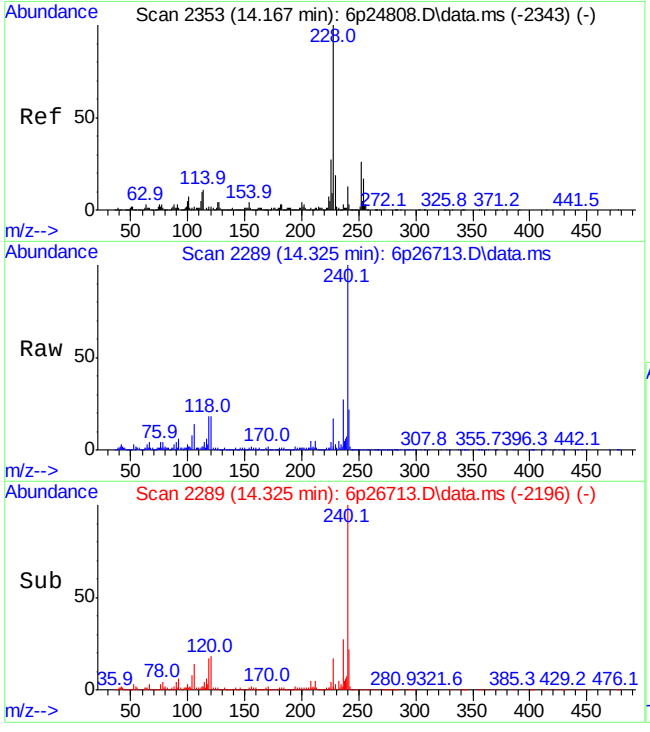


#84
Pyrene
Concen: 0.93 ppm
RT: 12.399 min Scan# 1929
Delta R.T. -0.006 min
Lab File: 6p26713.D
Acq: 6 Jun 2016 4:01 pm

Tgt Ion:202 Resp: 53572

Ion	Ratio	Lower	Upper
202	100		
200	18.1	0.0	49.9
203	26.8	0.0	48.3

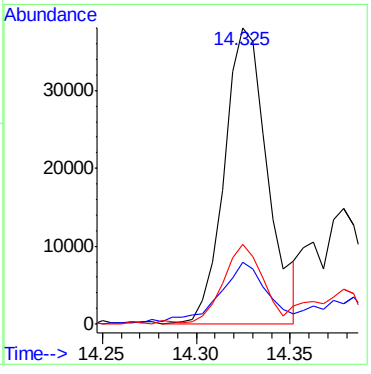


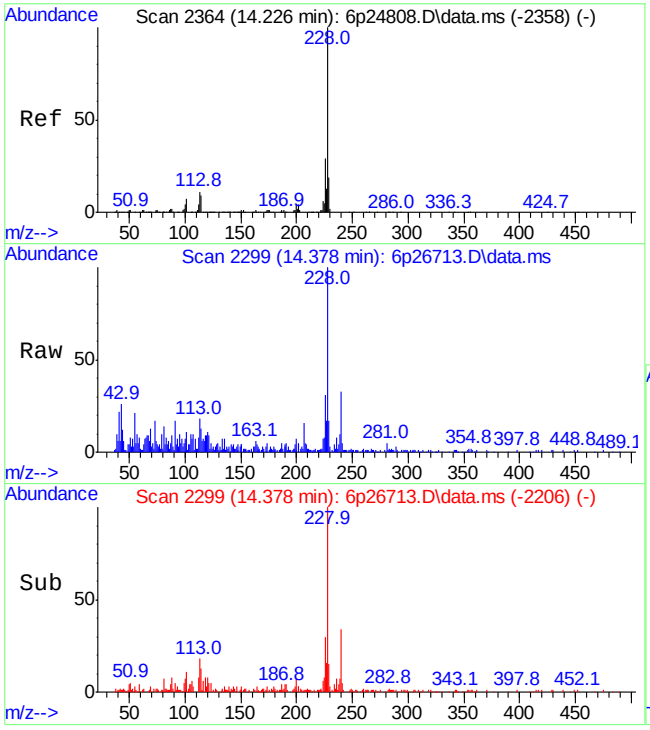


#88
Benzo[a]anthracene
Concen: 1.20 ppm
RT: 14.325 min Scan# 2289
Delta R.T. -0.005 min
Lab File: 6p26713.D
Acq: 6 Jun 2016 4:01 pm

Tgt Ion:228 Resp: 60496

Ion	Ratio	Lower	Upper
228	100		
229	21.0	0.0	49.8
226	25.8	0.0	56.5

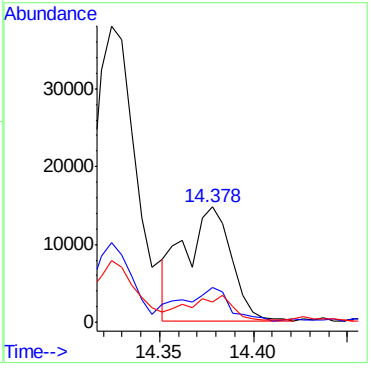


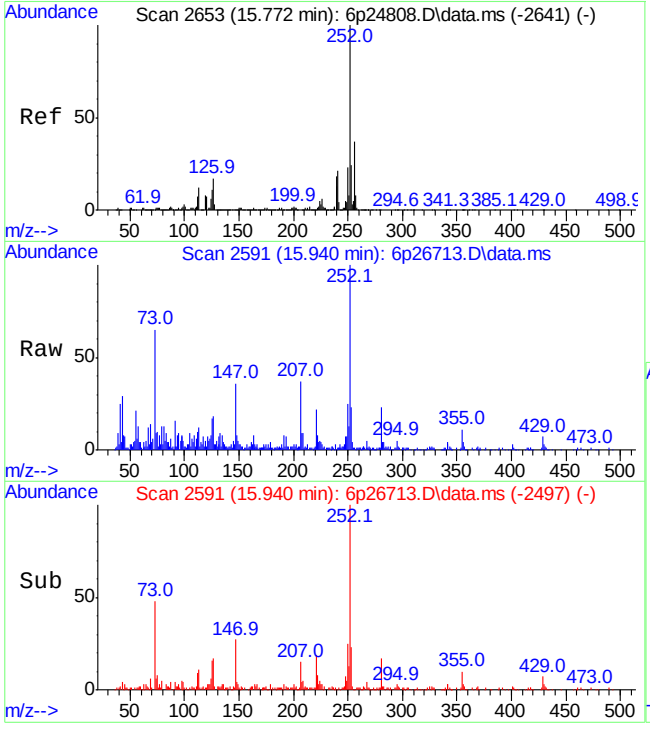


#90
Chrysene
Concen: 0.54 ppm
RT: 14.378 min Scan# 2299
Delta R.T. -0.005 min
Lab File: 6p26713.D
Acq: 6 Jun 2016 4:01 pm

Tgt Ion:228 Resp: 26088

Ion	Ratio	Lower	Upper
228	100		
226	29.3	0.0	59.2
229	16.0	0.0	48.8

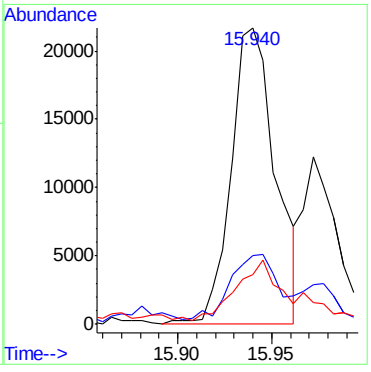


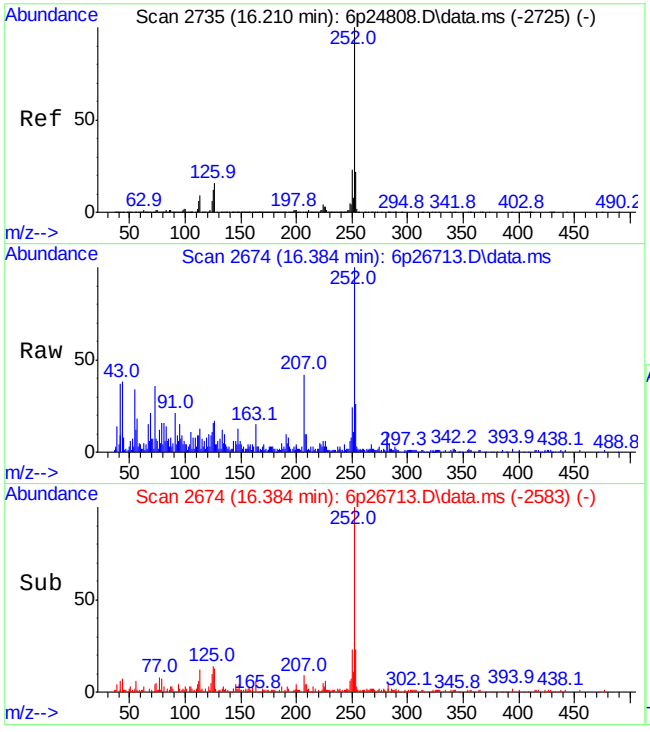


#94
Benzo[b]fluoranthene
Concen: 0.84 ppm
RT: 15.940 min Scan# 2591
Delta R.T. 0.005 min
Lab File: 6p26713.D
Acq: 6 Jun 2016 4:01 pm

Tgt Ion:252 Resp: 35523

Ion	Ratio	Lower	Upper
252	100		
253	19.6	0.0	53.9
125	13.7	0.0	46.4

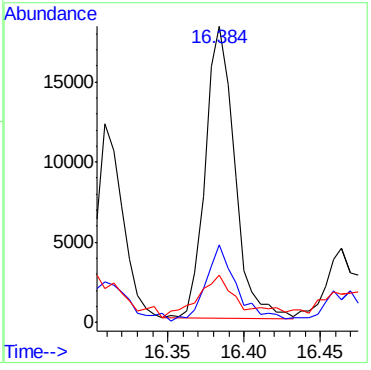




#96
Benzo[a]pyrene
Concen: 0.67 ppm
RT: 16.384 min Scan# 2674
Delta R.T. -0.011 min
Lab File: 6p26713.D
Acq: 6 Jun 2016 4:01 pm

Tgt Ion:252 Resp: 24235

Ion	Ratio	Lower	Upper
252	100		
253	24.0	13.6	73.6
125	13.6	0.0	58.1



7.1.2

7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26494.D
Acq On : 31 May 2016 10:39 am
Operator : ariellec
Sample : jc21229-3
Misc : op94328,e6p1232,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 14:45:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

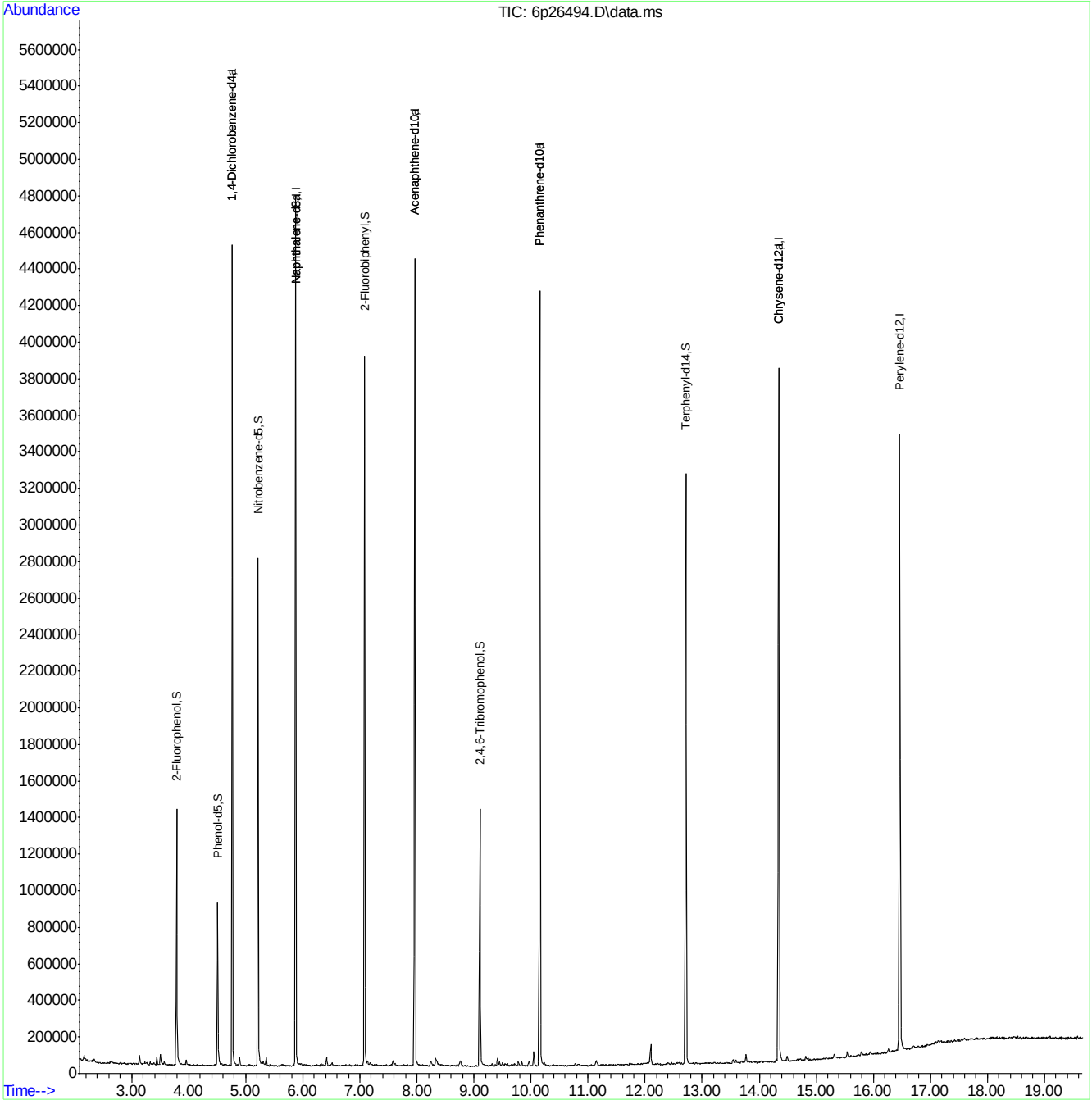
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.761	152	464082	40.00	ppm	0.00
24) Naphthalene-d8	5.874	136	1865581	40.00	ppm	0.00
47) Acenaphthene-d10	7.965	164	1005122	40.00	ppm	0.00
69) Phenanthrene-d10	10.153	188	1672324	40.00	ppm	0.00
83) Chrysene-d12	14.346	240	1536810	40.00	ppm	-0.01
92) Perylene-d12	16.464	264	1398539	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.761	152	464082	40.00	ppm	0.00
104) Acenaphthene-d10a	7.965	164	1005122	40.00	ppm	0.00
106) Phenanthrene-d10a	10.153	188	1672324	40.00	ppm	0.00
108) Chrysene-d12a	14.346	240	1536810	40.00	ppm	-0.01
110) Naphthalene-d8a	5.874	136	1865581	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.782	112	231153	13.07	ppm	0.00
Spiked Amount 50.000			Recovery = 26.14%			
8) Phenol-d5	4.504	99	251383	10.86	ppm	0.02
Spiked Amount 50.000			Recovery = 21.72%			
25) Nitrobenzene-d5	5.216	82	739489	35.55	ppm	0.00
Spiked Amount 50.000			Recovery = 71.10%			
51) 2-Fluorobiphenyl	7.082	172	1159505	35.78	ppm	-0.01
Spiked Amount 50.000			Recovery = 71.56%			
73) 2,4,6-Tribromophenol	9.104	330	138264	32.99	ppm	0.01
Spiked Amount 50.000			Recovery = 65.98%			
85) Terphenyl-d14	12.715	244	1149075	35.69	ppm	-0.02
Spiked Amount 50.000			Recovery = 71.38%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26494.D
Acq On : 31 May 2016 10:39 am
Operator : ariellec
Sample : jc21229-3
Misc : op94328,e6p1232,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 14:45:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26495.D
Acq On : 31 May 2016 11:06 am
Operator : ariellec
Sample : jc21229-4
Misc : op94328,e6p1232,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:23:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.761	152	488437	40.00 ppm	0.00
24) Naphthalene-d8	5.874	136	1937030	40.00 ppm	0.00
47) Acenaphthene-d10	7.965	164	1052396	40.00 ppm	0.00
69) Phenanthrene-d10	10.153	188	1740081	40.00 ppm	0.00
83) Chrysene-d12	14.346	240	1527898	40.00 ppm	-0.01
92) Perylene-d12	16.469	264	1378827	40.00 ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.761	152	488437	40.00 ppm	0.00
104) Acenaphthene-d10a	7.965	164	1052396	40.00 ppm	0.00
106) Phenanthrene-d10a	10.153	188	1740081	40.00 ppm	0.00
108) Chrysene-d12a	14.346	240	1527898	40.00 ppm	-0.01
110) Naphthalene-d8a	5.874	136	1937030	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	3.782	112	298614	16.04 ppm	0.00
Spiked Amount 50.000			Recovery	= 32.08%	
8) Phenol-d5	4.505	99	232787	9.55 ppm	0.02
Spiked Amount 50.000			Recovery	= 19.10%	
25) Nitrobenzene-d5	5.216	82	870757	40.31 ppm	0.00
Spiked Amount 50.000			Recovery	= 80.62%	
51) 2-Fluorobiphenyl	7.083	172	1412720	41.64 ppm	0.00
Spiked Amount 50.000			Recovery	= 83.28%	
73) 2,4,6-Tribromophenol	9.104	330	160098	36.71 ppm	0.02
Spiked Amount 50.000			Recovery	= 73.42%	
85) Terphenyl-d14	12.715	244	1357213	42.40 ppm	-0.02
Spiked Amount 50.000			Recovery	= 84.80%	

Target Compounds Qvalue

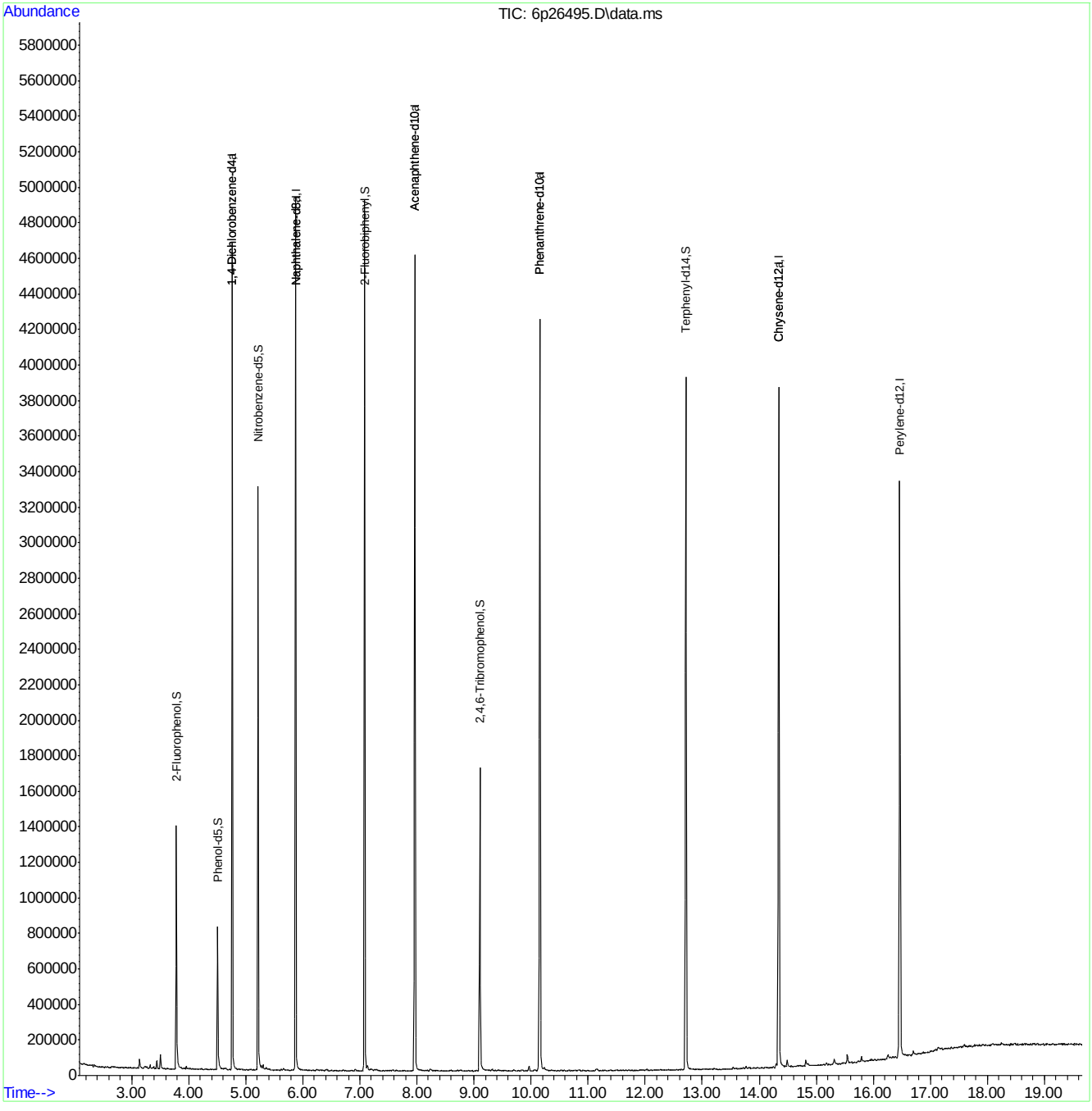
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26495.D
Acq On : 31 May 2016 11:06 am
Operator : ariellec
Sample : jc21229-4
Misc : op94328,e6p1232,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:23:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



M6P1209.M Tue May 31 12:23:17 2016 ACLIMS Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/13/16 11:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62168.D
Acq On : 11 Jun 2016 8:09 am
Operator : juliusj
Sample : jc21229-1
Misc : op94419a,e3m2930,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 13 10:42:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.180	150	593431	4.00 ppm	0.06
14) Fluorene-d10	13.186	176	795195	4.00 ppm	0.08
21) Fluoranthene-d10	17.433	212	1187017	4.00 ppm	0.08
31) Benzo(a)pyrene-d12	22.084	264	1146283	4.00 ppm	0.11
System Monitoring Compounds					
3) 2-Fluorophenol	4.229	112	3450353	45.46 ppm	0.04
Spiked Amount 50.000				Recovery = 90.92%	
4) Phenol-d5	5.871	99	4696699	38.44 ppm	0.08
Spiked Amount 50.000				Recovery = 76.88%	
7) Nitrobenzene-d5	7.306	82	3958599	38.39 ppm	0.00
Spiked Amount 50.000				Recovery = 76.78%	
15) 2-Fluorobiphenyl	10.862	172	8714577	44.32 ppm	0.05
Spiked Amount 50.000				Recovery = 88.64%	
20) 2,4,6-Tribromophenol	13.770	330	842518	43.62 ppm	0.10
Spiked Amount 50.000				Recovery = 87.24%	
28) Terphenyl-d14	18.252	244	8153474	49.20 ppm	0.08
Spiked Amount 50.000				Recovery = 98.40%	
Target Compounds					Qvalue
24) Phenanthrene	15.161	178	198534	0.72 ppm	91
25) Anthracene	15.269	178	47411	0.19 ppm	92
26) Fluoranthene	17.464	202	440148	1.31 ppm	96
27) Pyrene	17.866	202	317550	1.05 ppm	88
29) Benzo[a]anthracene	19.982	228	143514	0.53 ppm	95
30) Chrysene	20.029	228	75214	0.27 ppm	94
32) Benzo[b]fluoranthene	21.666	252	94267m	0.27 ppm	
33) Benzo[k]fluoranthene	21.697	252	34846m	0.11 ppm	
34) Benzo[a]pyrene	22.115	252	68874	0.22 ppm	96

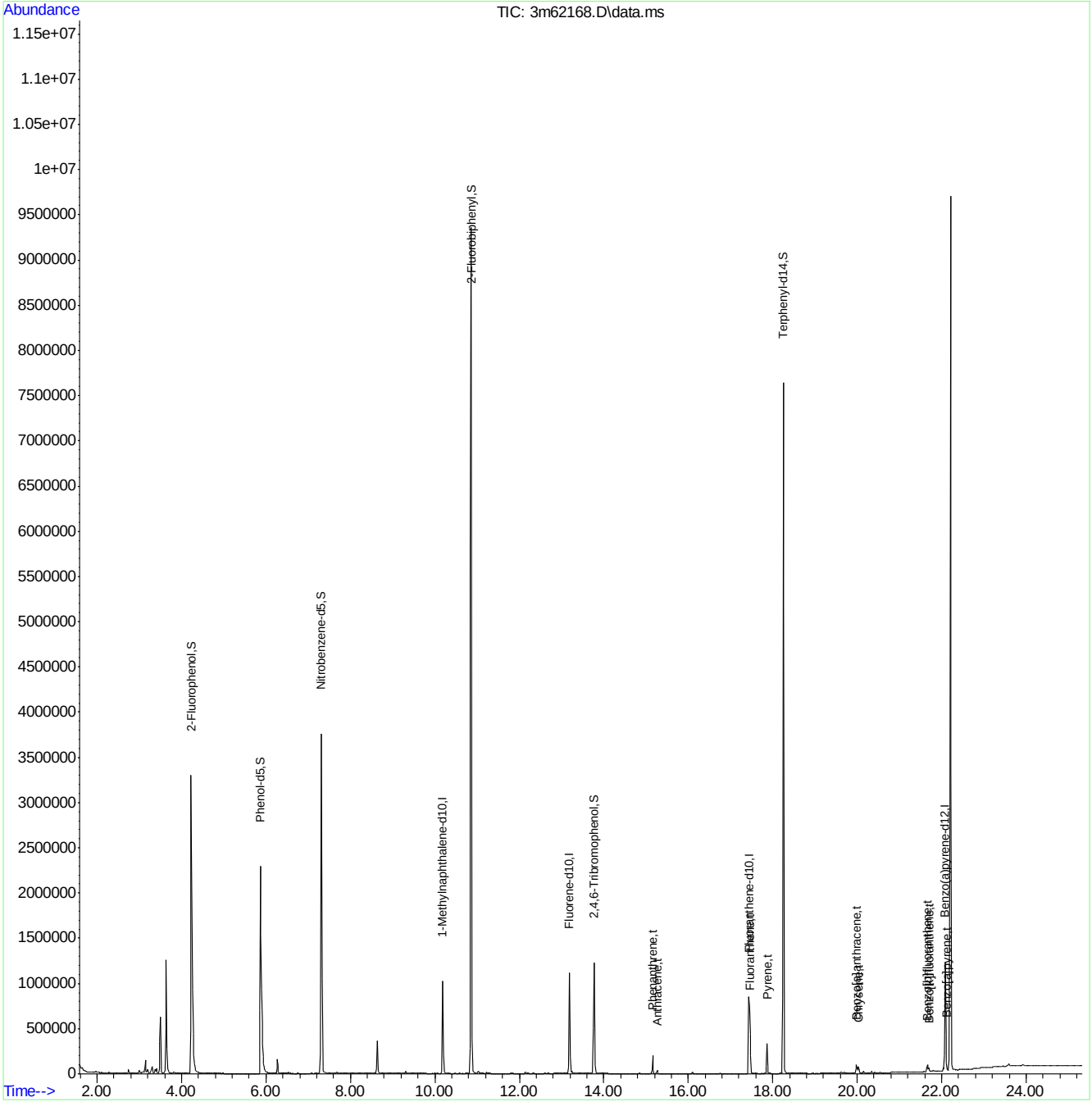
(#) = qualifier out of range (m) = manual integration (+) = signals summed

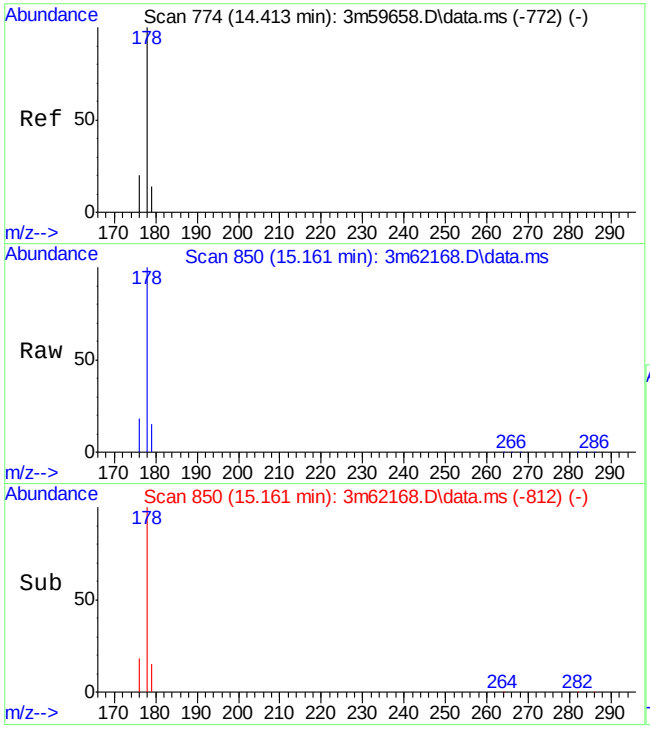
7.1.5
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62168.D
Acq On : 11 Jun 2016 8:09 am
Operator : juliusj
Sample : jc21229-1
Misc : op94419a,e3m2930,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 13 10:42:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

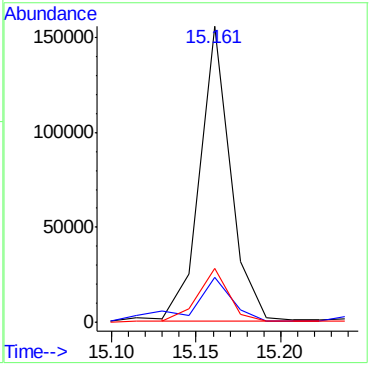


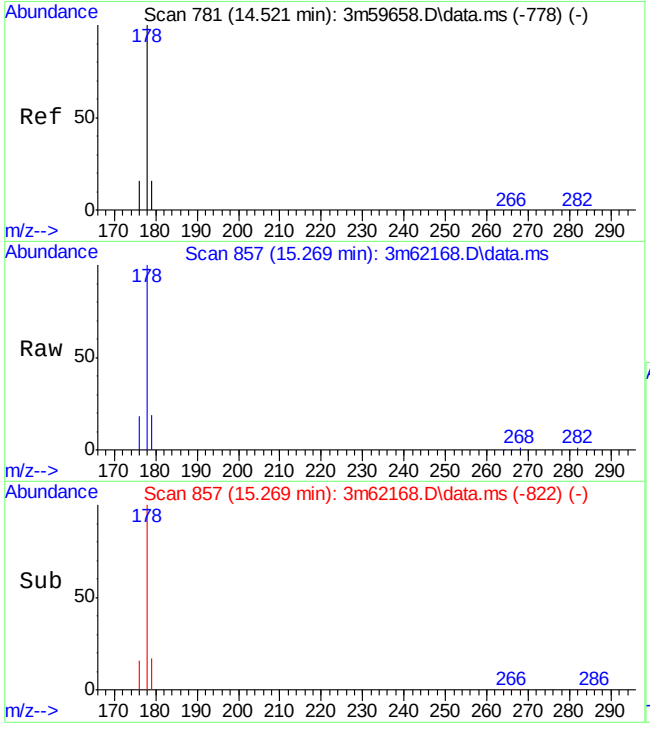


#24
Phenanthrene
Concen: 0.72 ppm
RT: 15.161 min Scan# 850
Delta R.T. 0.080 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:178 Resp: 198534

Ion	Ratio	Lower	Upper
178	100		
179	13.4	0.0	49.3
176	18.0	0.0	46.5

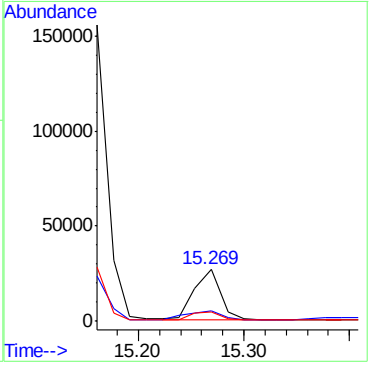


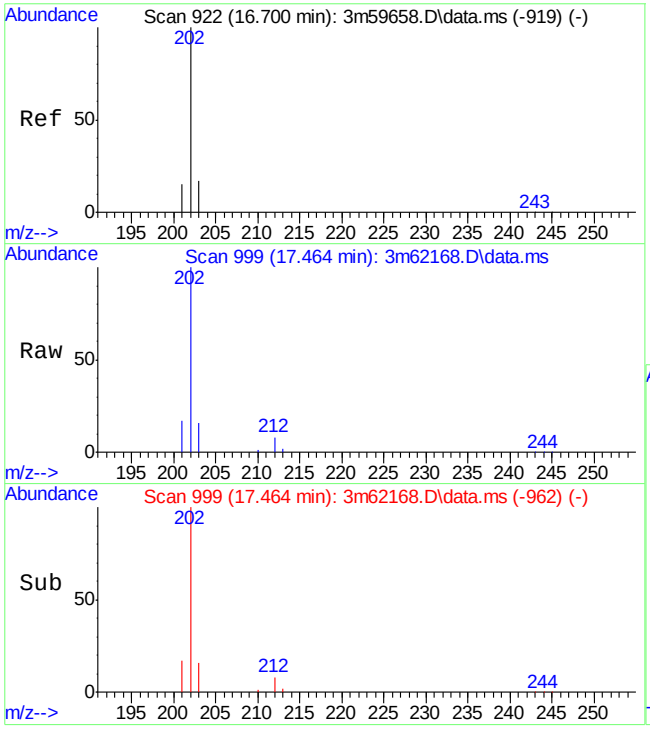


#25
Anthracene
Concen: 0.19 ppm
RT: 15.269 min Scan# 857
Delta R.T. 0.046 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:178 Resp: 47411

Ion	Ratio	Lower	Upper
178	100		
179	16.7	0.0	43.1
176	16.5	0.0	50.2

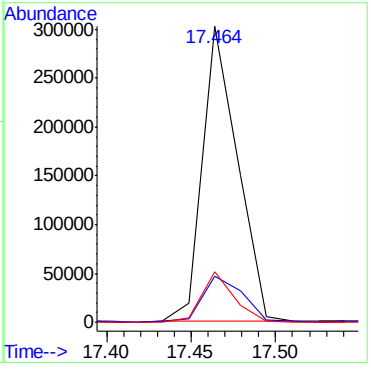


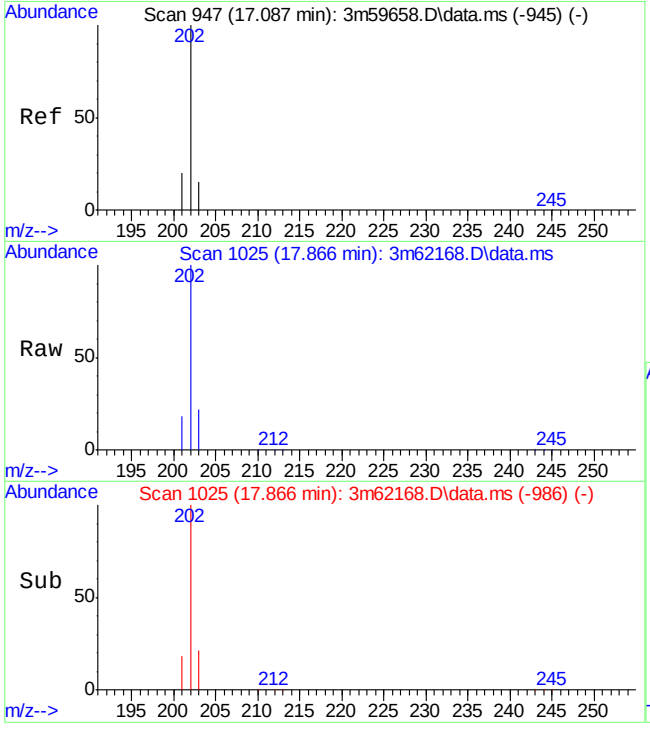


#26
Fluoranthene
Concen: 1.31 ppm
RT: 17.464 min Scan# 999
Delta R.T. 0.077 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:202 Resp: 440148

Ion	Ratio	Lower	Upper
202	100		
203	15.4	0.0	46.8
201	16.9	0.0	45.0

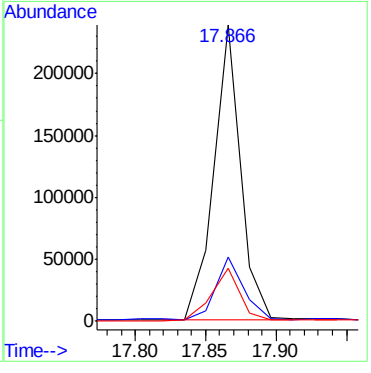


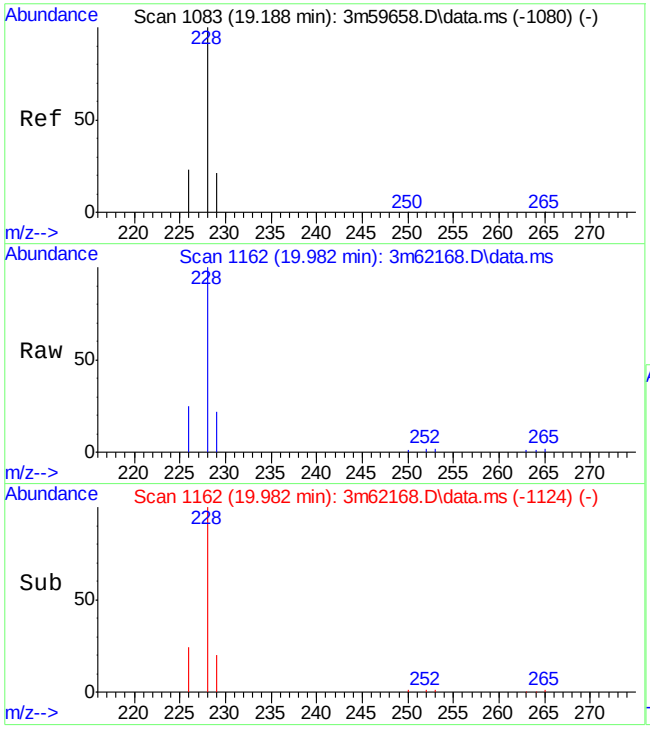


#27
Pyrene
Concen: 1.05 ppm
RT: 17.866 min Scan# 1025
Delta R.T. 0.095 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:202 Resp: 317550

Ion	Ratio	Lower	Upper
202	100		
203	21.3	0.0	44.2
201	17.7	0.0	51.3

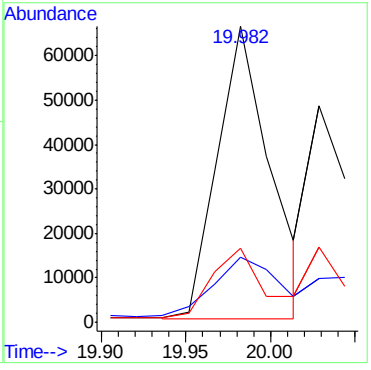


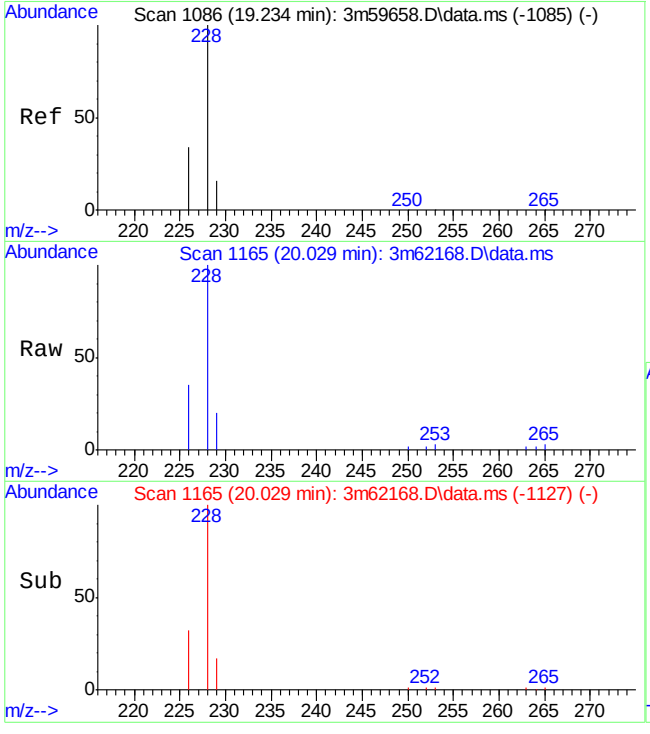


#29
Benzo[a]anthracene
Concen: 0.53 ppm
RT: 19.982 min Scan# 1162
Delta R.T. 0.093 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:228 Resp: 143514

Ion	Ratio	Lower	Upper
228	100		
229	19.3	0.0	52.2
226	23.2	0.0	51.2

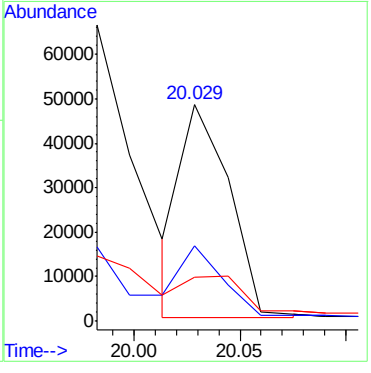


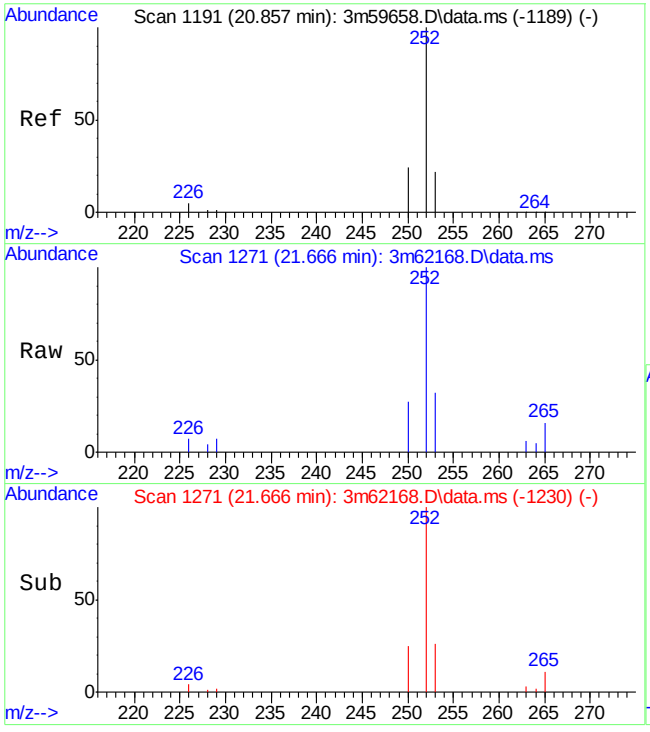


#30
Chrysene
Concen: 0.27 ppm
RT: 20.029 min Scan# 1165
Delta R.T. 0.093 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:228 Resp: 75214

Ion	Ratio	Lower	Upper
228	100		
226	34.3	1.0	61.0
229	15.0	0.0	47.7

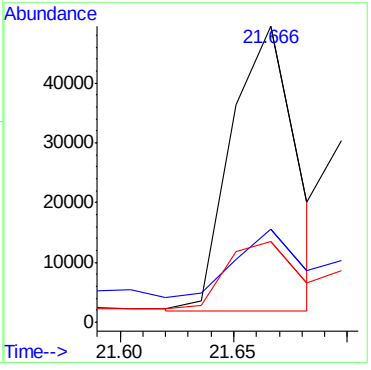


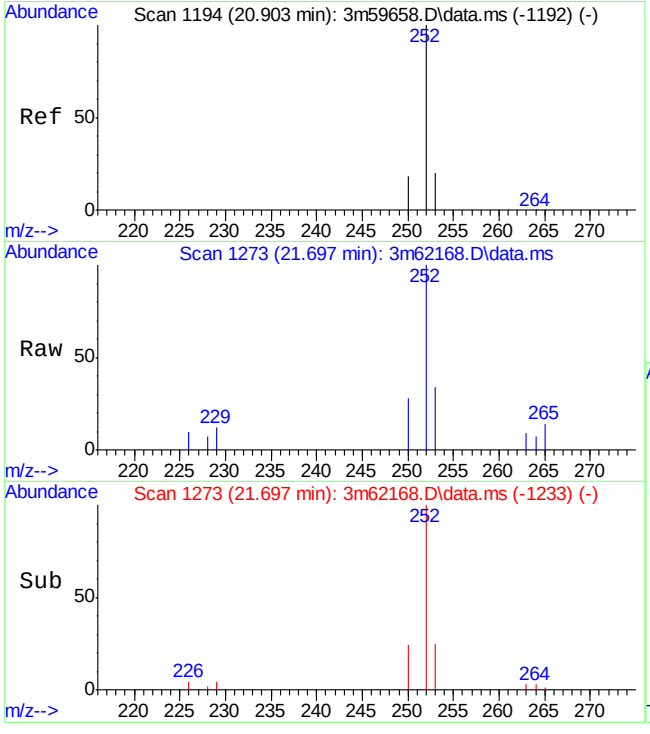


#32
Benzo[b]fluoranthene
Concen: 0.27 ppm m
RT: 21.666 min Scan# 1271
Delta R.T. 0.128 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:252 Resp: 94267

Ion	Ratio	Lower	Upper
252	100		
253	31.6	0.0	50.6
250	27.5	0.0	54.6

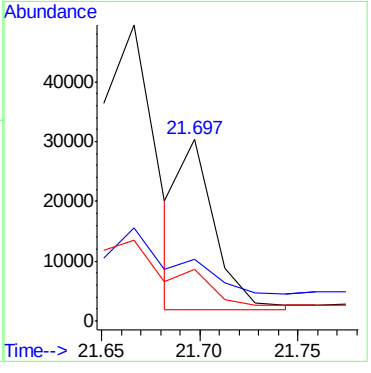




#33
Benzo[k]fluoranthene
Concen: 0.11 ppm m
RT: 21.697 min Scan# 1273
Delta R.T. 0.113 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

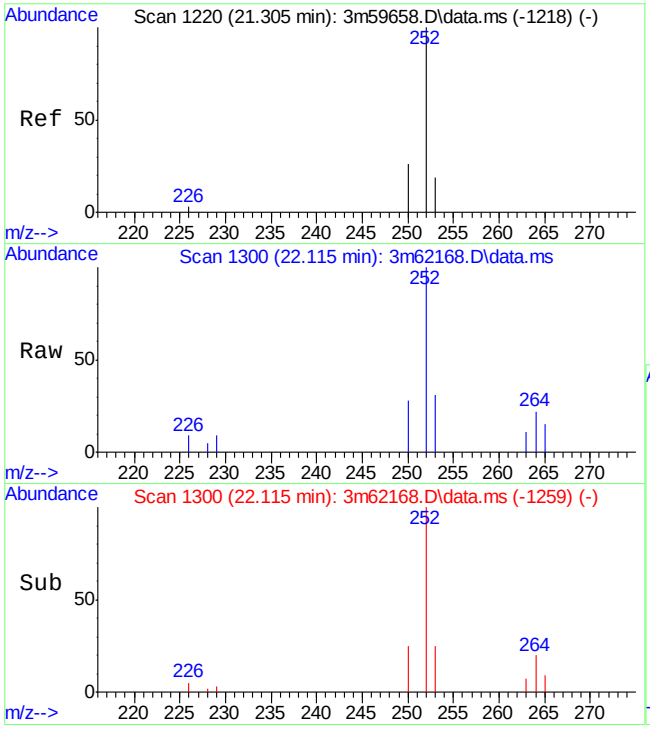
Tgt Ion:252 Resp: 34846

Ion	Ratio	Lower	Upper
252	100		
253	33.9	0.0	52.5
250	28.2	0.0	48.9



7.1.5

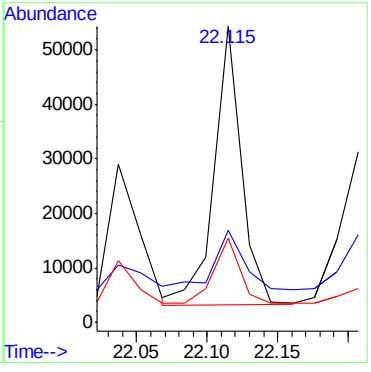
7



#34
Benzo[a]pyrene
Concen: 0.22 ppm
RT: 22.115 min Scan# 1300
Delta R.T. 0.131 min
Lab File: 3m62168.D
Acq: 11 Jun 2016 8:09 am

Tgt Ion:252 Resp: 68874

Ion	Ratio	Lower	Upper
252	100		
253	21.0	0.0	48.6
250	23.9	0.0	55.5



7.1.5

7

Manual Integration Approval Summary

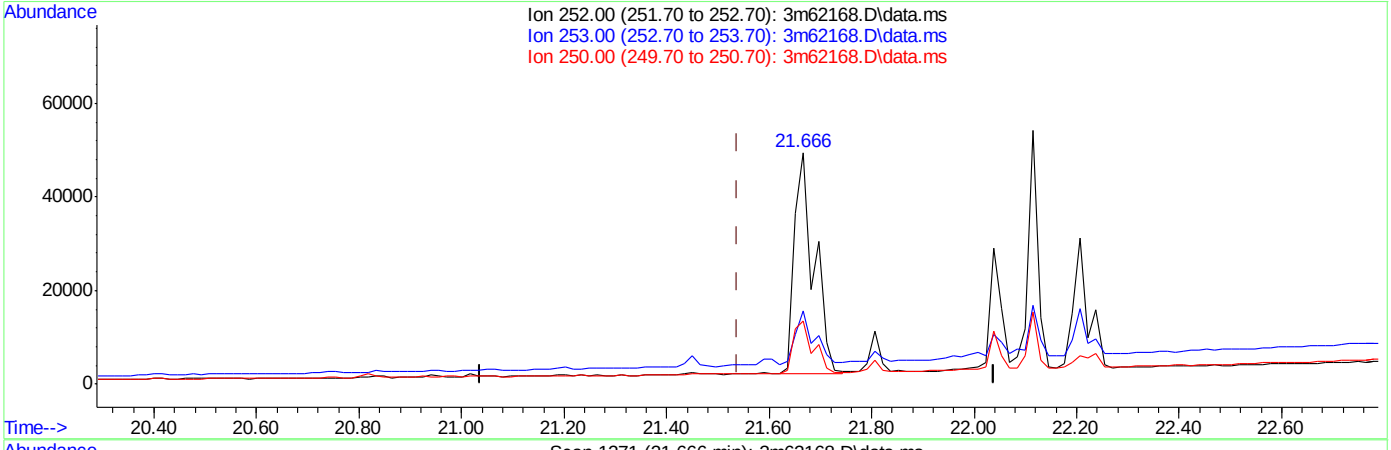
Sample Number:	JC21229-1	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62168.D	**Analyst approved:**	06/13/16 10:43 Linsey Kirschmann
Injection Time:	06/11/16 08:09	**Supervisor approved:**	06/13/16 11:24 Nina Pandya

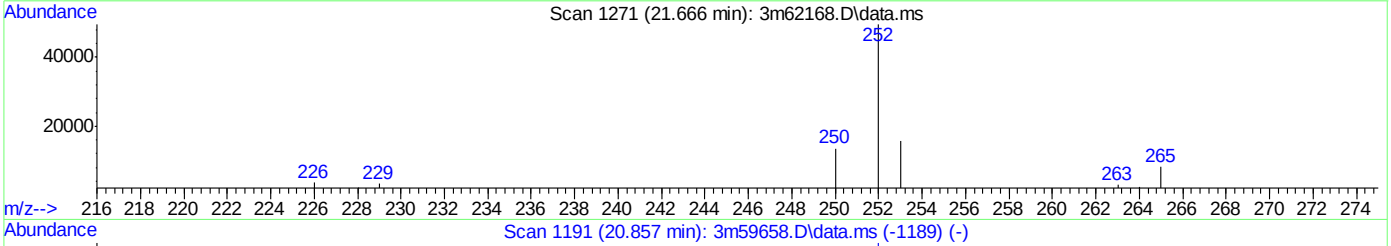
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		21.67	Overlapping peak
Benzo(k)fluoranthene	207-08-9		21.70	Overlapping peak

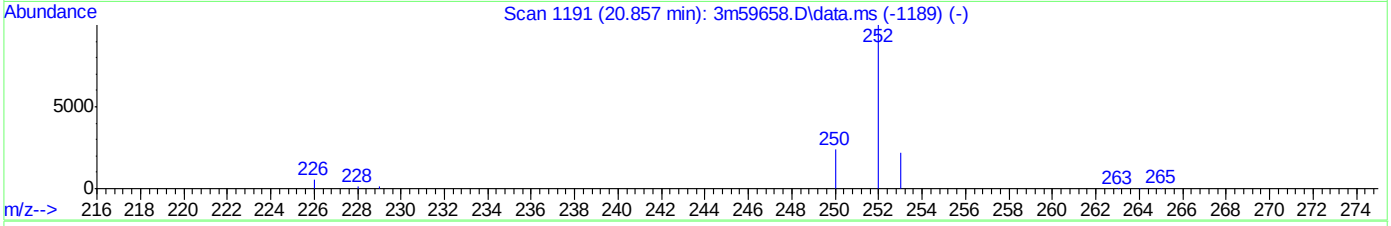
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62168.D
Acq On : 11 Jun 2016 8:09 am
Operator : juliusj
Sample : jc21229-1
Misc : op94419a,e3m2930,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 11 08:33:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration







TIC: 3m62168.D\data.ms

(32) Benzo[b]fluoranthene (t)

21.666min (+0.128) 0.36ppm

response 126969

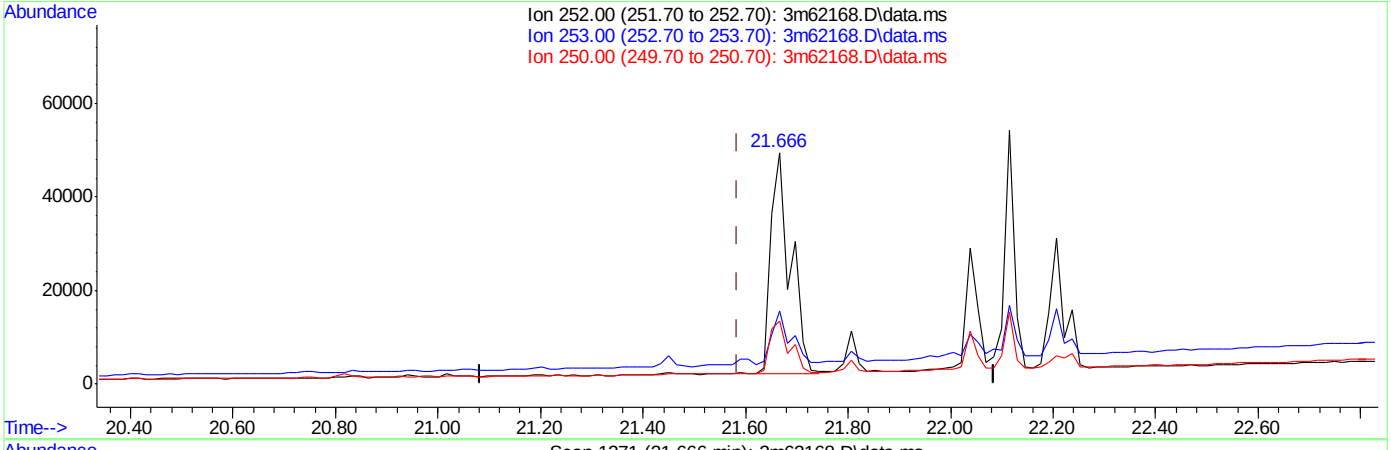
Ion	Exp%	Act%
252.00	100	100
253.00	20.60	23.93
250.00	24.60	23.70
0.00	0.00	0.00

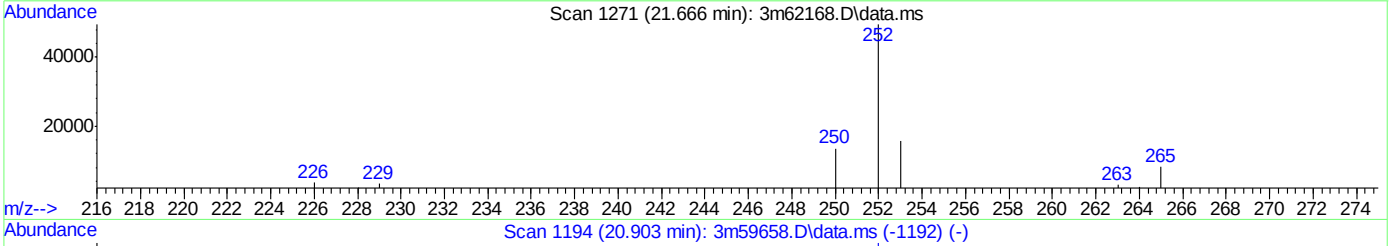
SGS ACCUTEST JC21229

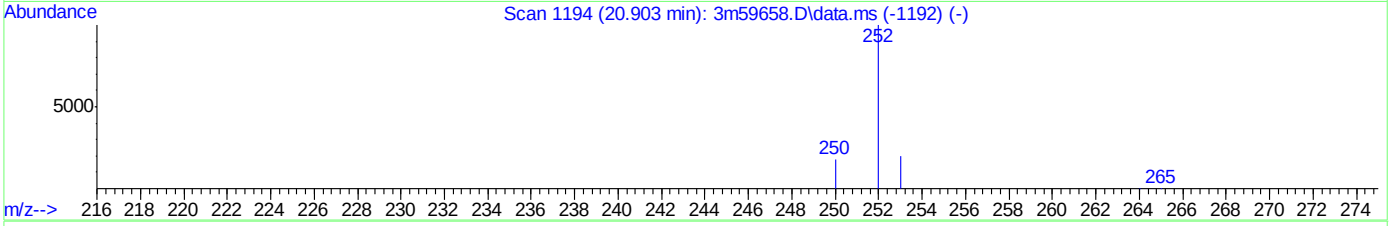
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62168.D
Acq On : 11 Jun 2016 8:09 am
Operator : juliusj
Sample : jc21229-1
Misc : op94419a,e3m2930,30.4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 11 08:33:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration







TIC: 3m62168.D\data.ms

(33) Benzo[k]fluoranthene (t)

21.666min (+0.082) 0.41ppm

response 126969

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	23.93
250.00	18.90	23.70
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/13/16 14:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16864.D
Acq On : 13 Jun 2016 10:44 am
Operator : linseyk
Sample : jc21229-2
Misc : op94419a,e4p896,15.1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 11:23:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.715	150	221684	4.00	ppm	-0.05
13) Fluorene-d10	10.659	176	227138	4.00	ppm	-0.05
23) Fluoranthene-d10	14.852	212	360693	4.00	ppm	-0.05
33) Benzo(a)pyrene-d12	19.492	264	229219	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	2.588	112	874513	28.80	ppm	-0.07
Spiked Amount 50.000			Recovery = 57.60%			
4) Phenol-d5	3.716	99	1505029	29.35	ppm	-0.03
Spiked Amount 50.000			Recovery = 58.70%			
7) Nitrobenzene-d5	5.024	82	1230401	32.88	ppm	-0.04
Spiked Amount 50.000			Recovery = 65.76%			
14) 2-Fluorobiphenyl	8.379	172	2654246	43.52	ppm	-0.05
Spiked Amount 50.000			Recovery = 87.04%			
22) 2,4,6-Tribromophenol	11.194	330	331545	52.83	ppm	-0.04
Spiked Amount 50.000			Recovery = 105.66%			
30) Terphenyl-d14	15.712	244	1854609	41.03	ppm	-0.05
Spiked Amount 50.000			Recovery = 82.06%			
Target Compounds						Qvalue
28) Fluoranthene	14.886	202	47680	0.42	ppm	99
29) Pyrene	15.282	202	102434	0.99	ppm	99
31) Benzo[a]anthracene	17.414	228	101685	1.38	ppm	95
32) Chrysene	17.462	228	56106	0.63	ppm	91
34) Benzo[b]fluoranthene	19.066	252	67000m	0.83	ppm	
35) Benzo[k]fluoranthene	19.112	252	31844m	0.45	ppm	
36) Benzo[a]pyrene	19.515	252	47617	0.65	ppm	97
37) Indeno[1,2,3-cd]pyrene	20.936	276	20444	0.25	ppm	99
39) Benzo[g,h,i]perylene	21.234	276	17738	0.24	ppm	98

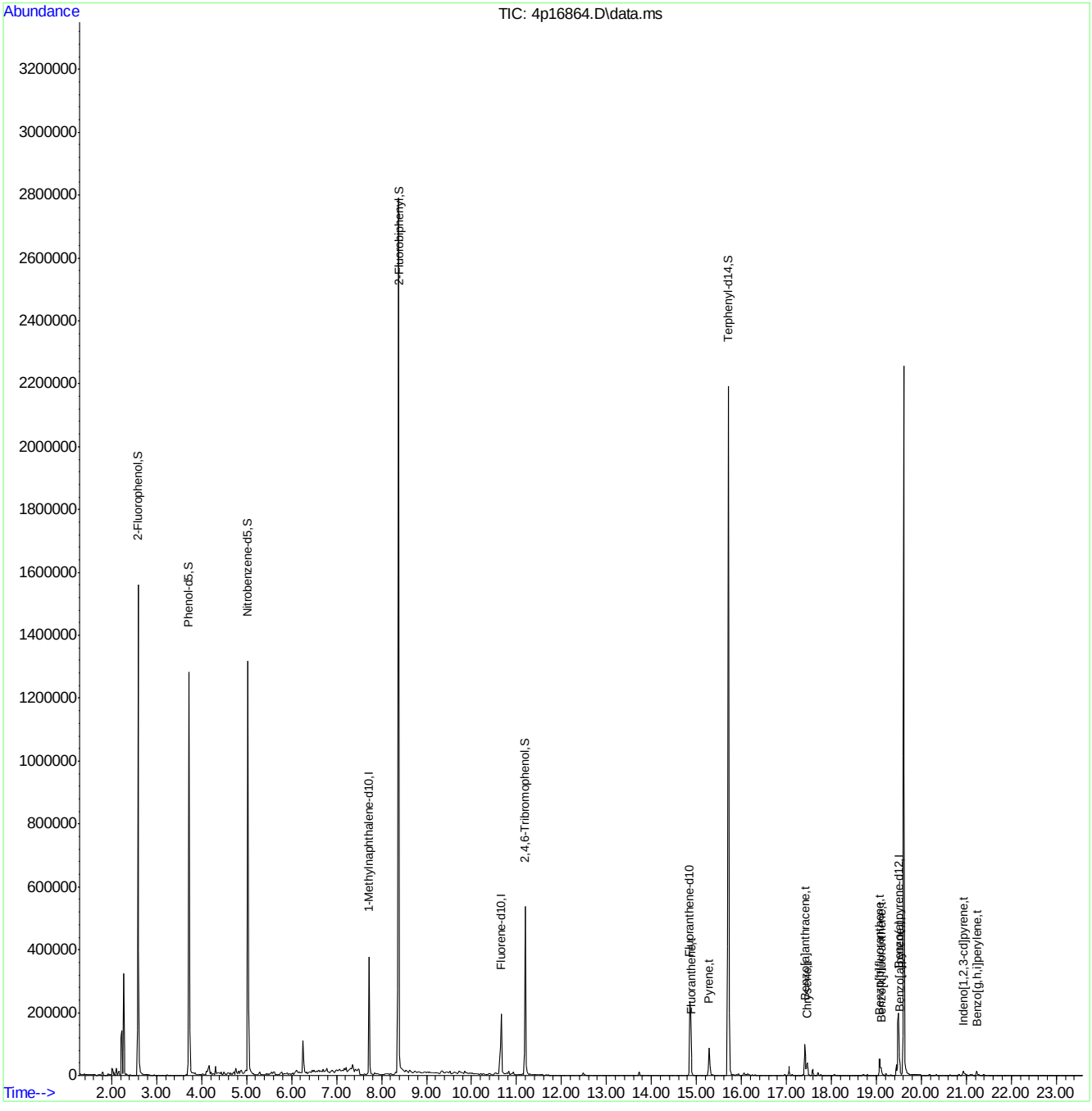
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.16
7

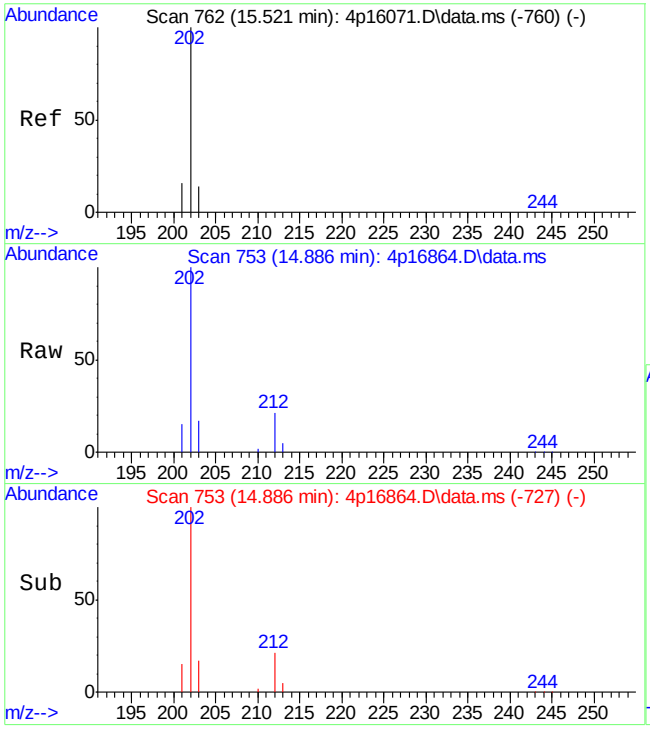
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16864.D
Acq On : 13 Jun 2016 10:44 am
Operator : linseyk
Sample : jc21229-2
Misc : op94419a,e4p896,15.1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 11:23:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration



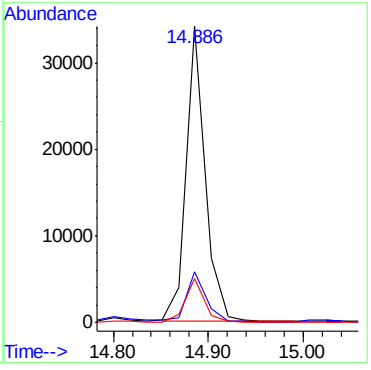
SGS ACCUTEST JC21229

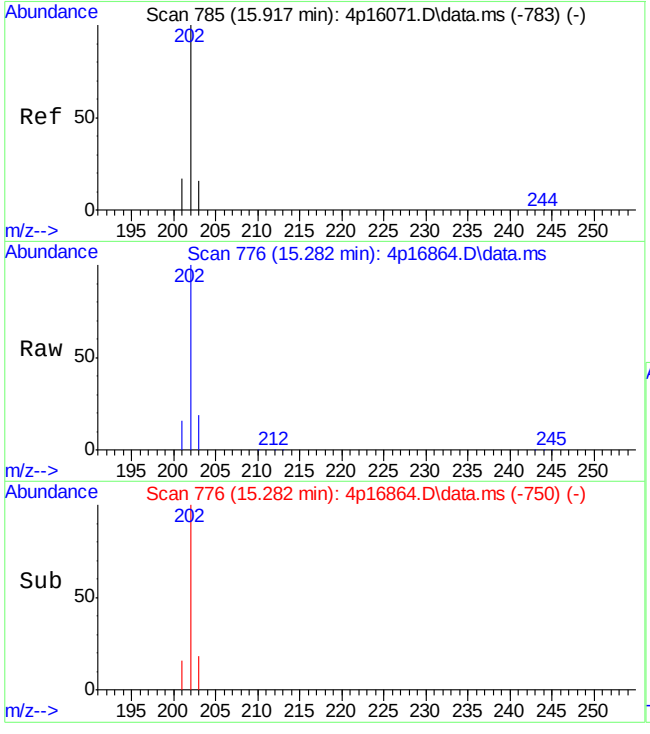


#28
Fluoranthene
Concen: 0.42 ppm
RT: 14.886 min Scan# 753
Delta R.T. -0.050 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:202 Resp: 47680

Ion	Ratio	Lower	Upper
202	100		
203	16.8	0.0	45.8
201	14.9	0.0	45.0

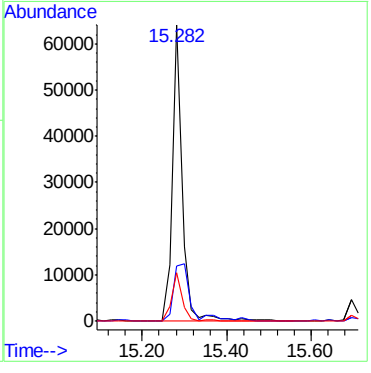


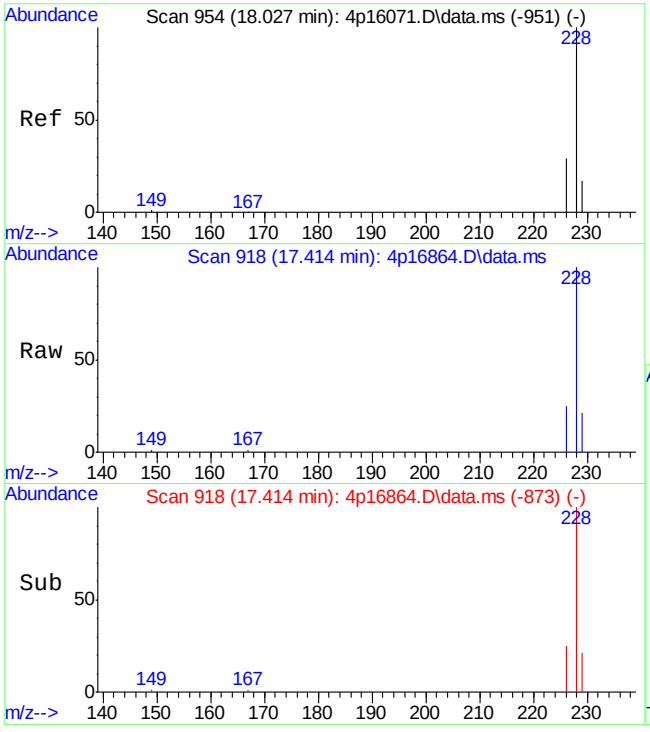


#29
Pyrene
Concen: 0.99 ppm
RT: 15.282 min Scan# 776
Delta R.T. -0.050 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:202 Resp: 102434

Ion	Ratio	Lower	Upper
202	100		
203	18.6	0.0	47.4
201	16.2	0.0	46.2

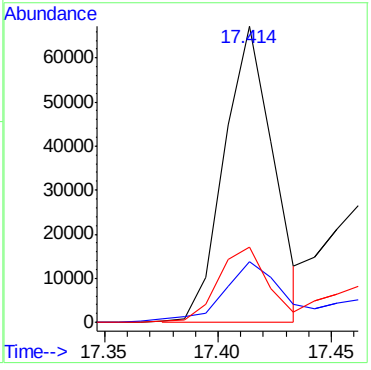


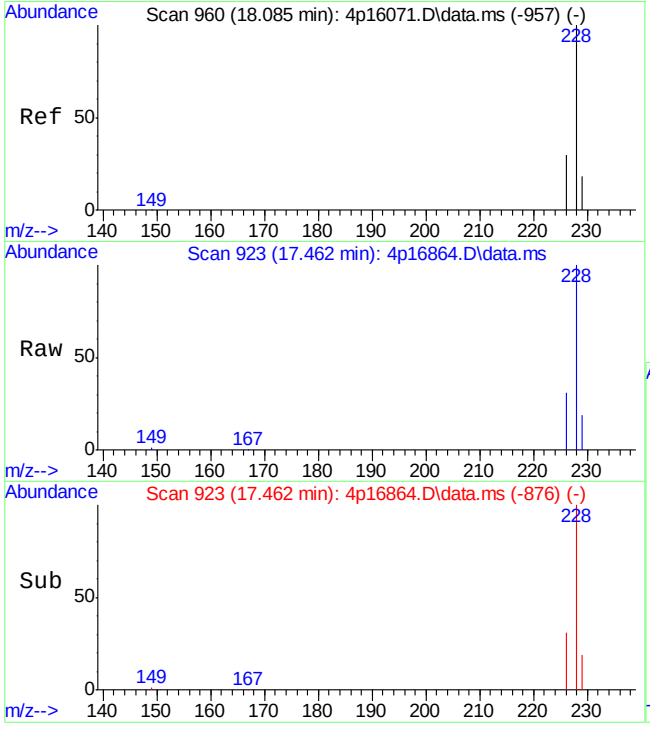


#31
Benzo[a]anthracene
Concen: 1.38 ppm
RT: 17.414 min Scan# 918
Delta R.T. -0.037 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:228 Resp: 101685

Ion	Ratio	Lower	Upper
228	100		
229	18.8	0.0	46.8
226	26.1	0.0	58.9

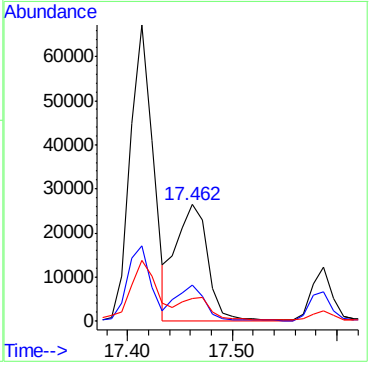


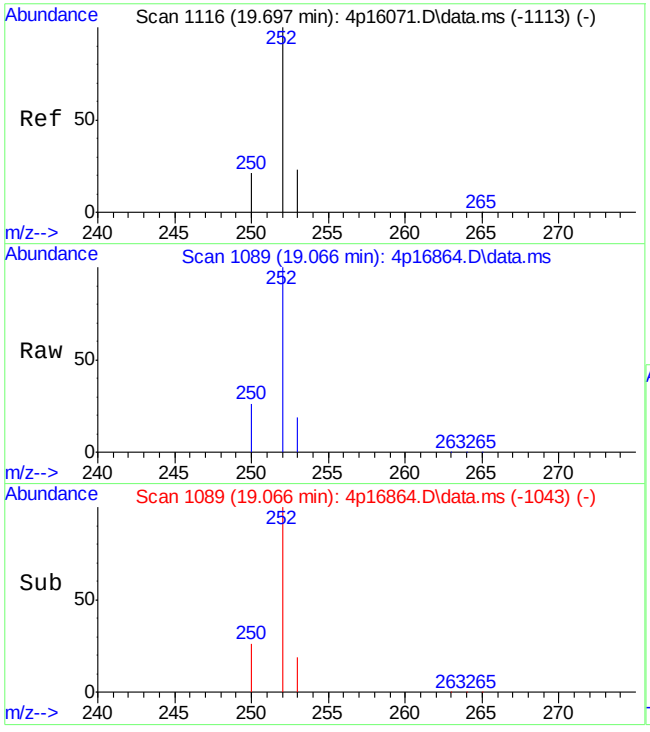


#32
Chrysene
Concen: 0.63 ppm
RT: 17.462 min Scan# 923
Delta R.T. -0.046 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:228 Resp: 56106

Ion	Ratio	Lower	Upper
228	100		
226	34.8	0.0	59.5
229	14.1	0.0	47.8

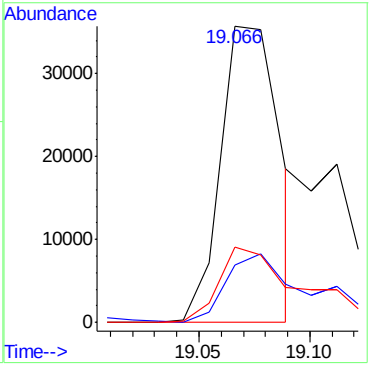


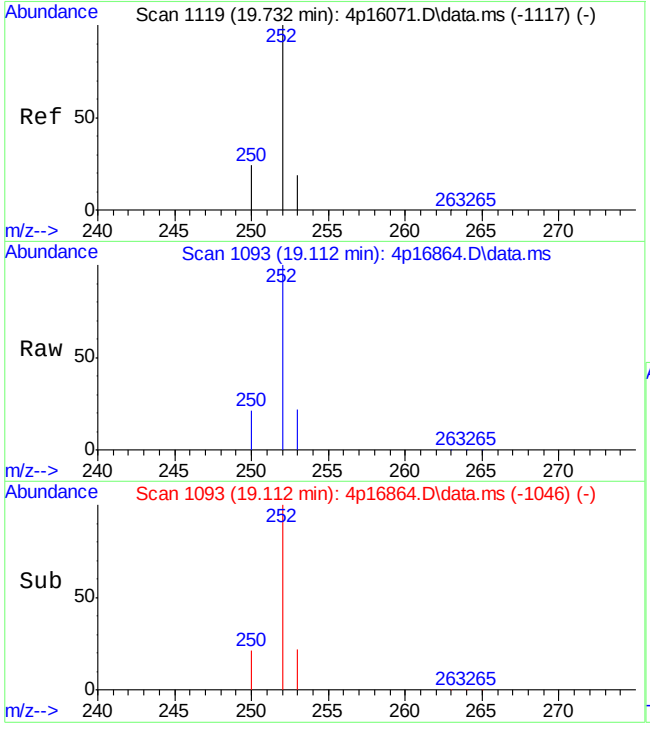


#34
Benzo[b]fluoranthene
Concen: 0.83 ppm m
RT: 19.066 min Scan# 1089
Delta R.T. -0.046 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:252 Resp: 67000

Ion	Ratio	Lower	Upper
252	100		
253	19.3	0.0	50.8
250	25.6	0.0	52.2

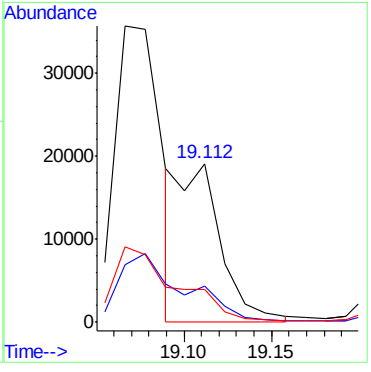


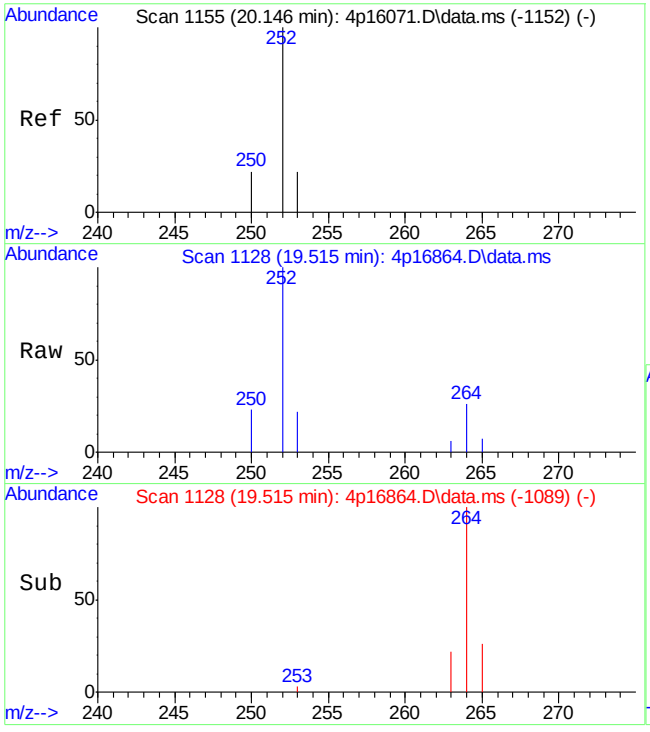


#35
Benzo[k]fluoranthene
Concen: 0.45 ppm m
RT: 19.112 min Scan# 1093
Delta R.T. -0.035 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:252 Resp: 31844

Ion	Ratio	Lower	Upper
252	100		
253	22.4	0.0	47.4
250	20.6	0.0	54.4

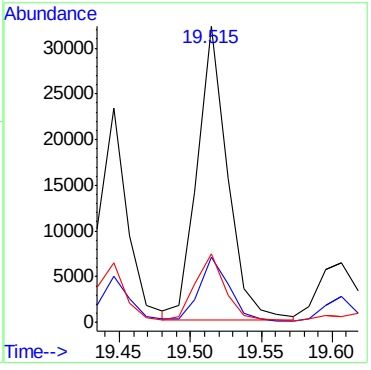


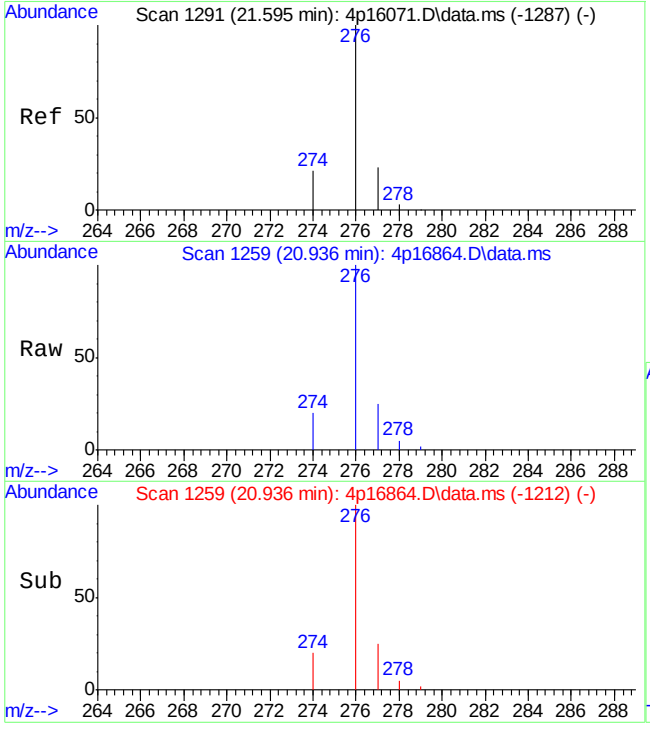


#36
Benzo[a]pyrene
Concen: 0.65 ppm
RT: 19.515 min Scan# 1128
Delta R.T. -0.046 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:252 Resp: 47617

Ion	Ratio	Lower	Upper
252	100		
253	21.8	0.0	52.6
250	23.1	0.0	50.7

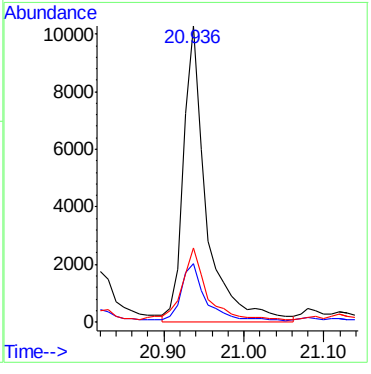


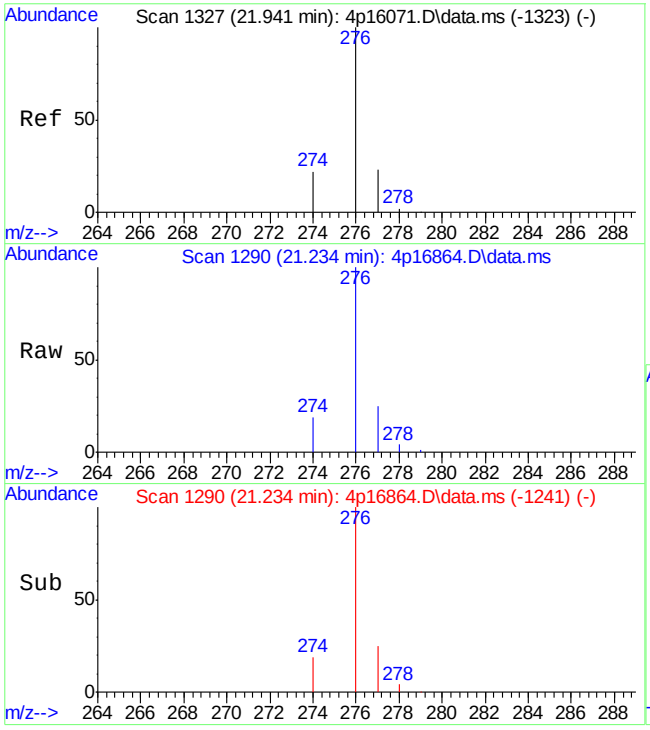


#37
Indeno[1,2,3-cd]pyrene
Concen: 0.25 ppm
RT: 20.936 min Scan# 1259
Delta R.T. -0.041 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:276 Resp: 20444

Ion	Ratio	Lower	Upper
276	100		
274	19.3	0.0	48.7
277	24.1	0.0	54.9

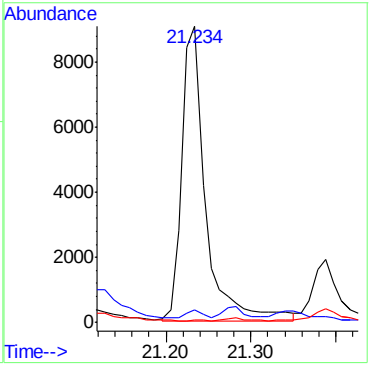




#39
Benzo[g,h,i]perylene
Concen: 0.24 ppm
RT: 21.234 min Scan# 1290
Delta R.T. -0.031 min
Lab File: 4p16864.D
Acq: 13 Jun 2016 10:44 am

Tgt Ion:276 Resp: 17738

Ion	Ratio	Lower	Upper
276	100		
278	1.4	0.0	32.1
279	0.0	0.0	30.2



Manual Integration Approval Summary

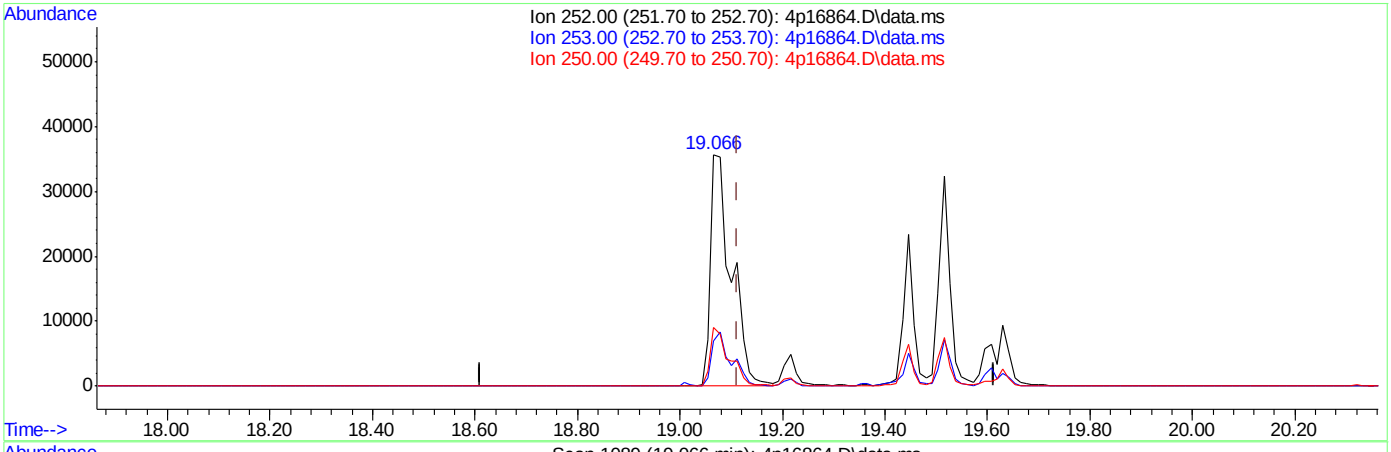
Sample Number:	JC21229-2	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16864.D	**Analyst approved:**	06/13/16 11:24 Linsey Kirschmann
Injection Time:	06/13/16 10:44	**Supervisor approved:**	06/13/16 14:00 Kristi Schollenberger

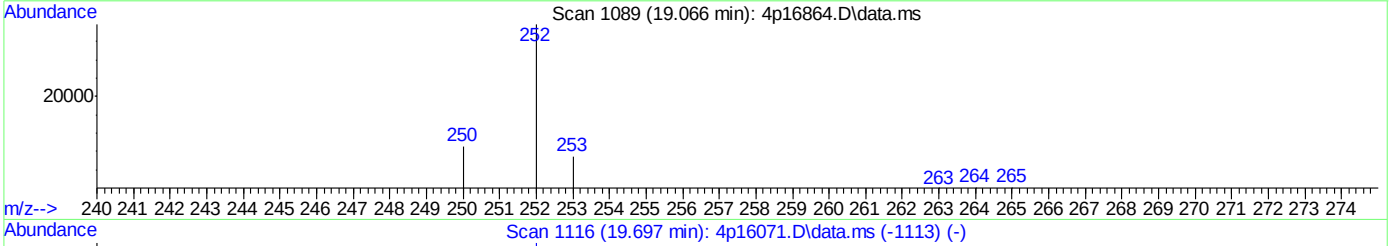
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		19.07	Overlapping peak
Benzo(k)fluoranthene	207-08-9		19.11	Overlapping peak

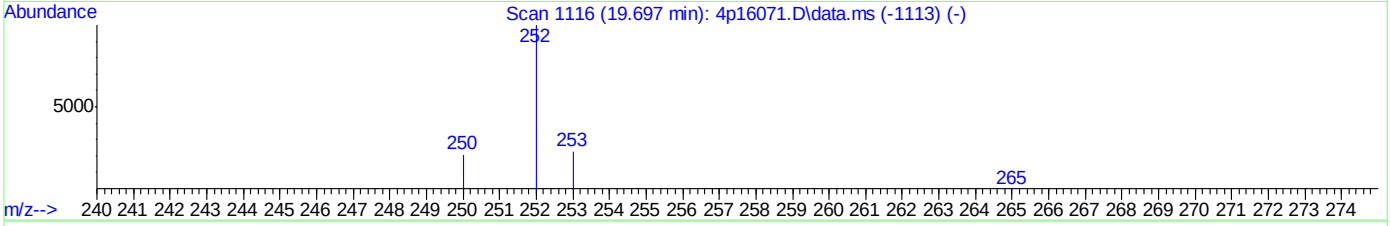
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16864.D
Acq On : 13 Jun 2016 10:44 am
Operator : linseyk
Sample : jc21229-2
Misc : op94419a,e4p896,15.1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 11:08:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration







TIC: 4p16864.D\data.ms

(34) Benzo[b]fluoranthene (t)

19.066min (-0.046) 1.23ppm

response 99542

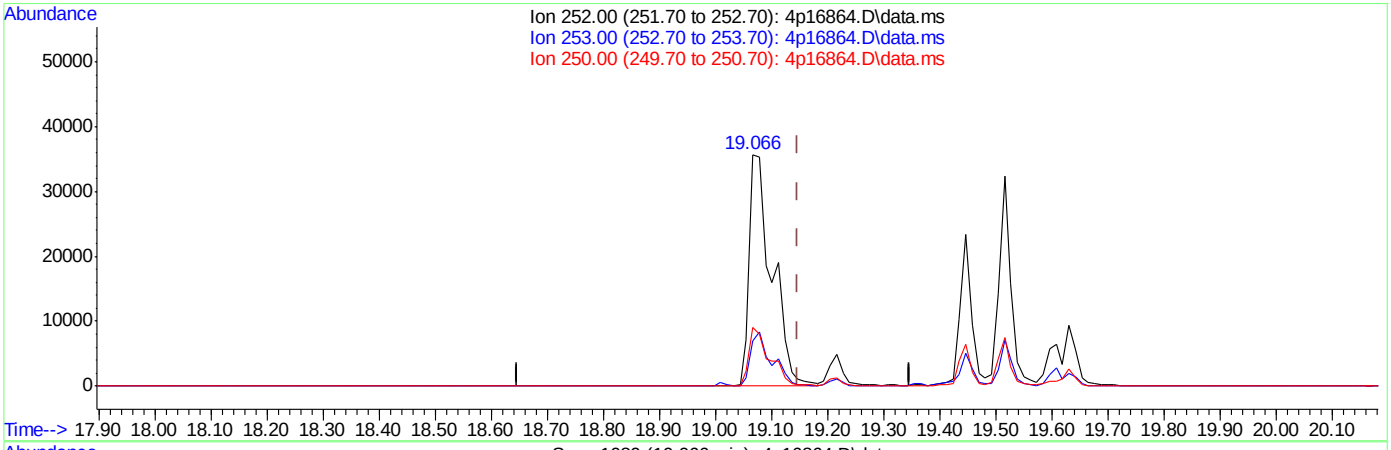
Ion	Exp%	Act%
252.00	100	100
253.00	20.80	19.10
250.00	22.20	25.52
0.00	0.00	0.00

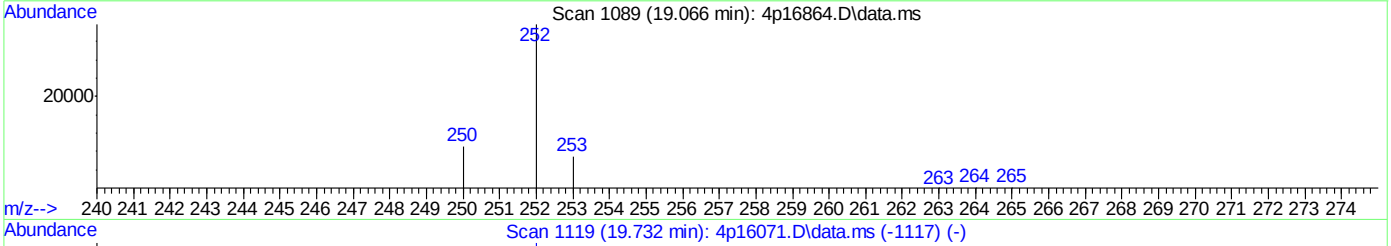
SGS ACCUTEST JC21229

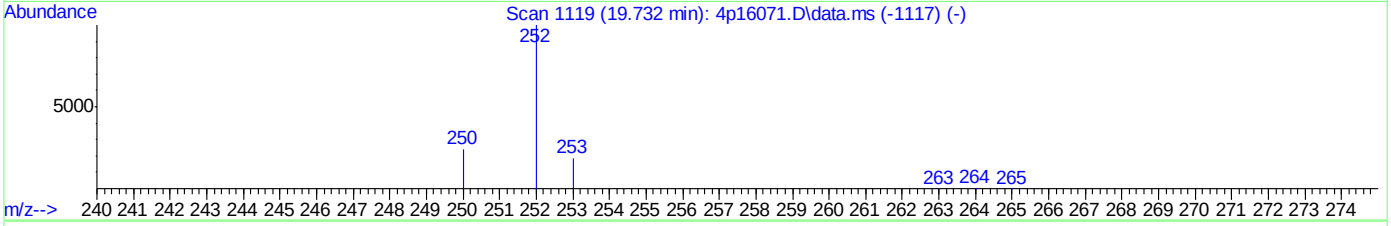
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16864.D
Acq On : 13 Jun 2016 10:44 am
Operator : linseyk
Sample : jc21229-2
Misc : op94419a,e4p896,15.1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 13 11:08:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration







TIC: 4p16864.D\data.ms

(35) Benzo[k]fluoranthene (t)

19.066min (-0.081) 1.42ppm

response 99542

Ion	Exp%	Act%
252.00	100	100
253.00	17.40	19.10
250.00	24.40	25.52
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61859.D
Acq On : 2 Jun 2016 2:12 am
Operator : juliusj
Sample : jc21229-3
Misc : op94328a,e3m2915,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 02 09:32:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.139	150	974769	4.00	ppm	-0.08
14) Fluorene-d10	13.130	176	1332528	4.00	ppm	-0.09
21) Fluoranthene-d10	17.371	212	2229911	4.00	ppm	0.02
31) Benzo(a)pyrene-d12	21.991	264	1699714	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.168	112	1735396	13.92	ppm	-0.06
Spiked Amount 50.000			Recovery = 27.84%			
4) Phenol-d5	5.799	99	2202768	10.98	ppm	-0.05
Spiked Amount 50.000			Recovery = 21.96%			
7) Nitrobenzene-d5	7.287	82	5508066	32.52	ppm	-0.08
Spiked Amount 50.000			Recovery = 65.04%			
15) 2-Fluorobiphenyl	10.816	172	12529891	38.03	ppm	-0.09
Spiked Amount 50.000			Recovery = 76.06%			
20) 2,4,6-Tribromophenol	13.695	330	1175992	36.33	ppm	-0.09
Spiked Amount 50.000			Recovery = 72.66%			
28) Terphenyl-d14	18.206	244	11545590	37.08	ppm	0.04
Spiked Amount 50.000			Recovery = 74.16%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	38197	0.69	ppm	95

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

7.1.7

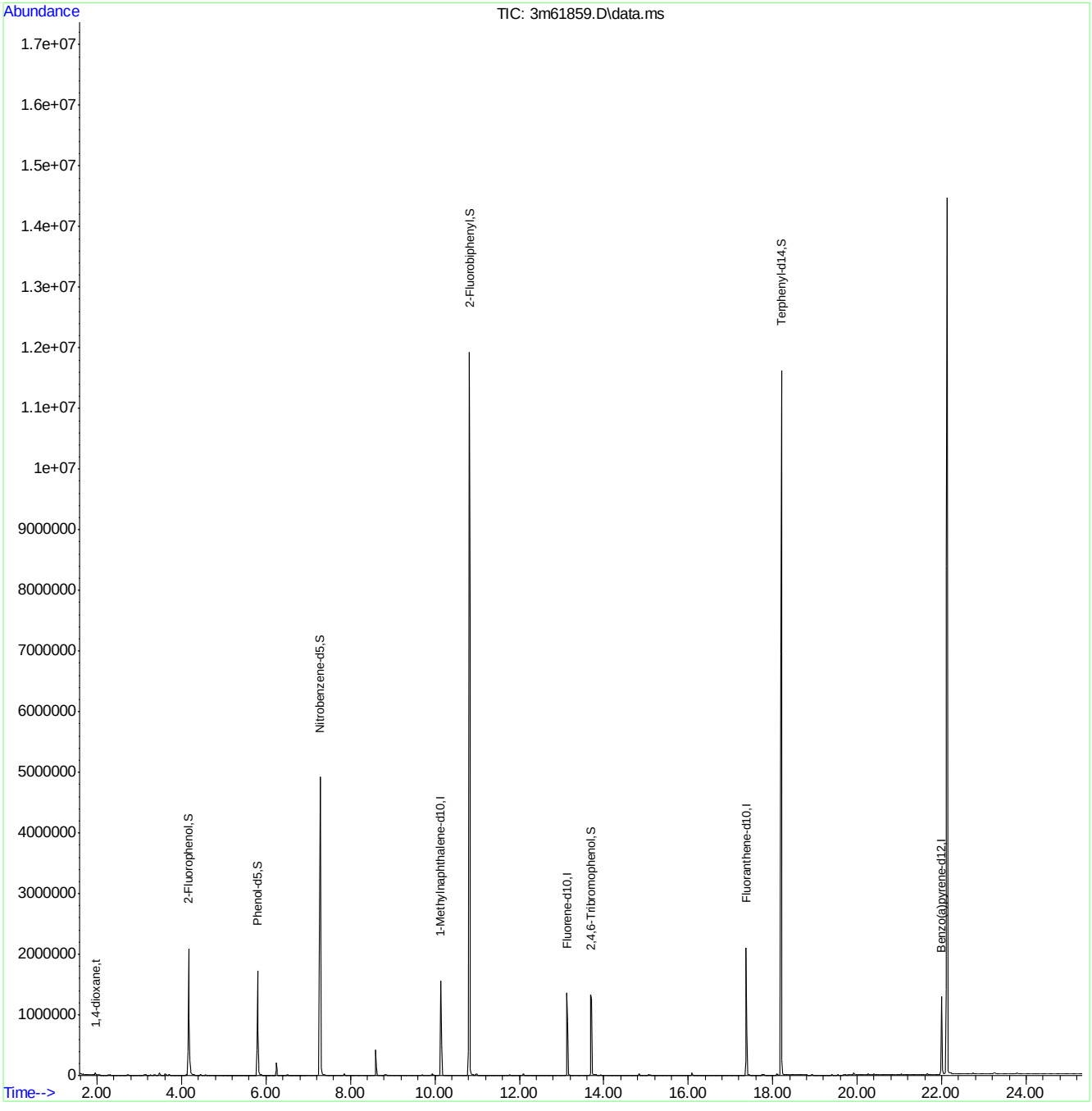
7

SGS ACCUTEST JC21229

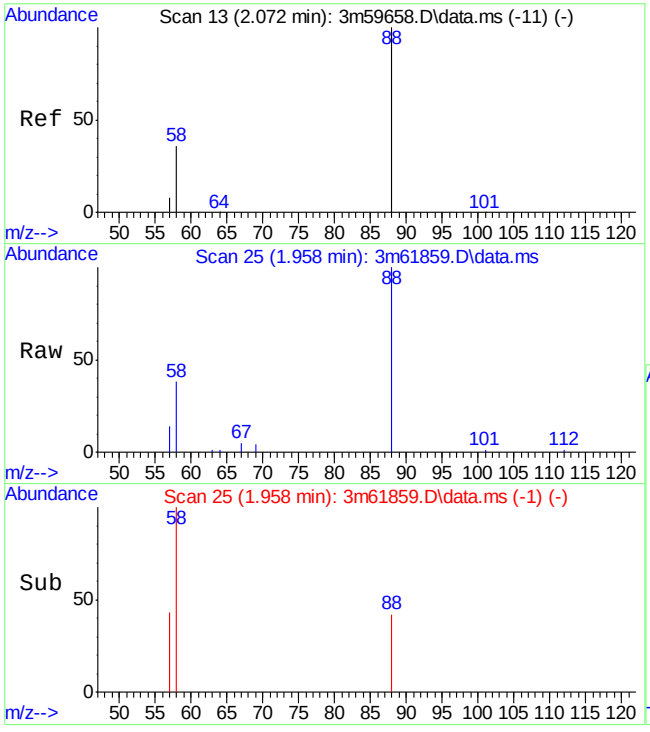
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61859.D
Acq On : 2 Jun 2016 2:12 am
Operator : juliusj
Sample : jc21229-3
Misc : op94328a,e3m2915,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 02 09:32:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration



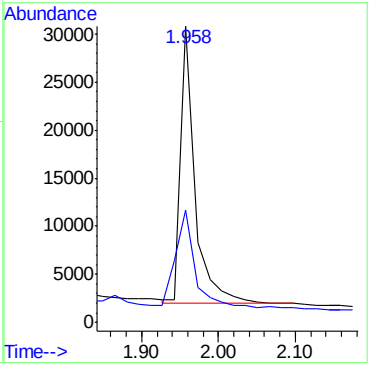
SGS ACCUTEST JC21229



#2
1,4-dioxane
Concen: 0.69 ppm
RT: 1.958 min Scan# 25
Delta R.T. -0.031 min
Lab File: 3m61859.D
Acq: 2 Jun 2016 2:12 am

Tgt Ion: 88 Resp: 38197

Ion	Ratio	Lower	Upper
88	100		
58	35.2	17.9	57.9



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61860.D
Acq On : 2 Jun 2016 2:44 am
Operator : juliusj
Sample : jc21229-4
Misc : op94328a,e3m2915,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 09:32:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.139	150	959007	4.00	ppm	-0.08
14) Fluorene-d10	13.130	176	1245580	4.00	ppm	-0.09
21) Fluoranthene-d10	17.371	212	2147960	4.00	ppm	0.02
31) Benzo(a)pyrene-d12	21.991	264	1561091	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.167	112	2183503	17.80	ppm	-0.06
Spiked Amount 50.000			Recovery = 35.60%			
4) Phenol-d5	5.798	99	2002987	10.14	ppm	-0.05
Spiked Amount 50.000			Recovery = 20.28%			
7) Nitrobenzene-d5	7.287	82	5956570	35.75	ppm	-0.08
Spiked Amount 50.000			Recovery = 71.50%			
15) 2-Fluorobiphenyl	10.815	172	14280891	46.36	ppm	-0.09
Spiked Amount 50.000			Recovery = 92.72%			
20) 2,4,6-Tribromophenol	13.695	330	1300220	42.98	ppm	-0.09
Spiked Amount 50.000			Recovery = 85.96%			
28) Terphenyl-d14	18.206	244	12533458	41.79	ppm	0.04
Spiked Amount 50.000			Recovery = 83.58%			

Target Compounds Qvalue

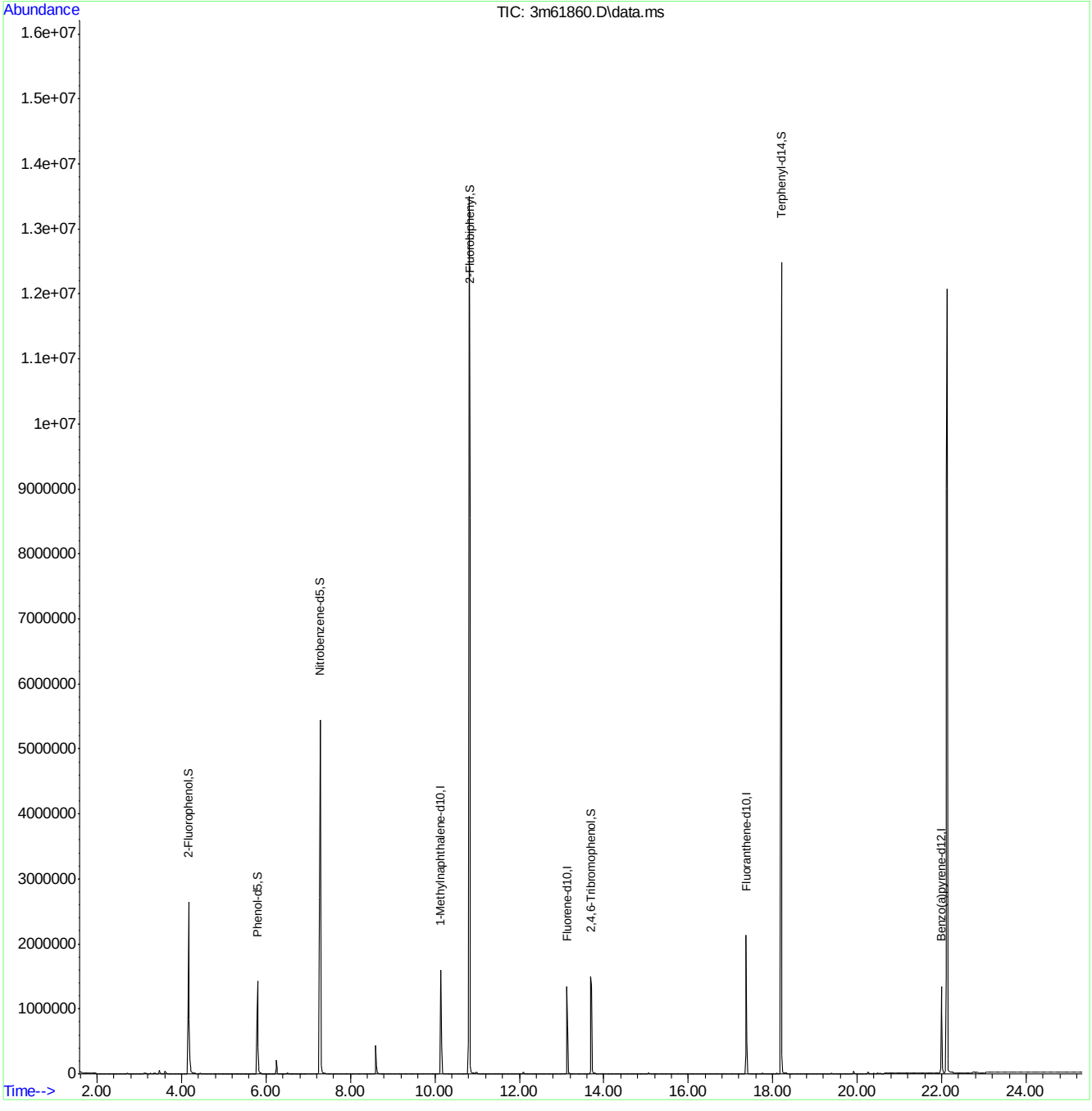
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61860.D
Acq On : 2 Jun 2016 2:44 am
Operator : juliusj
Sample : jc21229-4
Misc : op94328a,e3m2915,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 09:32:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26492.D
Acq On : 31 May 2016 9:44 am
Operator : ariellec
Sample : op94328-mb1
Misc : op94328,e6p1232,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:41:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.761	152	508251	40.00 ppm	0.00
24) Naphthalene-d8	5.874	136	2064659	40.00 ppm	0.00
47) Acenaphthene-d10	7.965	164	1128637	40.00 ppm	0.00
69) Phenanthrene-d10	10.153	188	1857004	40.00 ppm	0.00
83) Chrysene-d12	14.346	240	1659792	40.00 ppm	-0.01
92) Perylene-d12	16.464	264	1382977	40.00 ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.761	152	508251	40.00 ppm	0.00
104) Acenaphthene-d10a	7.965	164	1128637	40.00 ppm	0.00
106) Phenanthrene-d10a	10.153	188	1857004	40.00 ppm	0.00
108) Chrysene-d12a	14.346	240	1659792	40.00 ppm	-0.01
110) Naphthalene-d8a	5.874	136	2064659	40.00 ppm	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	3.782	112	501799	25.91 ppm	0.00
Spiked Amount 50.000			Recovery	= 51.82%	
8) Phenol-d5	4.504	99	497521	19.62 ppm	0.02
Spiked Amount 50.000			Recovery	= 39.24%	
25) Nitrobenzene-d5	5.216	82	791147	34.36 ppm	0.00
Spiked Amount 50.000			Recovery	= 68.72%	
51) 2-Fluorobiphenyl	7.082	172	1215889	33.42 ppm	-0.01
Spiked Amount 50.000			Recovery	= 66.84%	
73) 2,4,6-Tribromophenol	9.104	330	150337	32.31 ppm	0.01
Spiked Amount 50.000			Recovery	= 64.62%	
85) Terphenyl-d14	12.715	244	1333533	38.35 ppm	-0.02
Spiked Amount 50.000			Recovery	= 76.70%	
Target Compounds					Qvalue
91) bis(2-Ethylhexyl)phtha...	14.490	149	288781	8.70 ppm	99

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

7.2.1

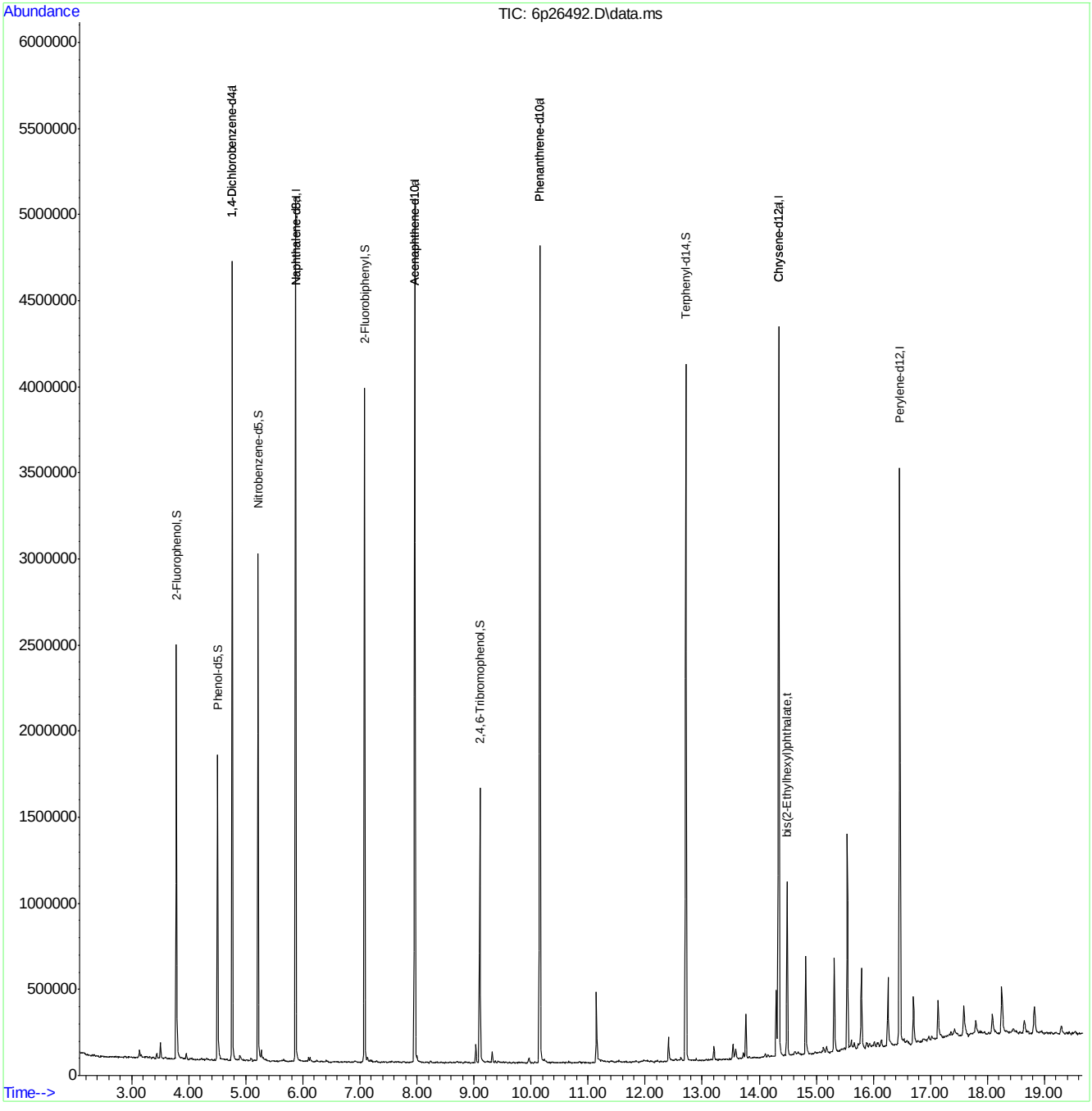
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

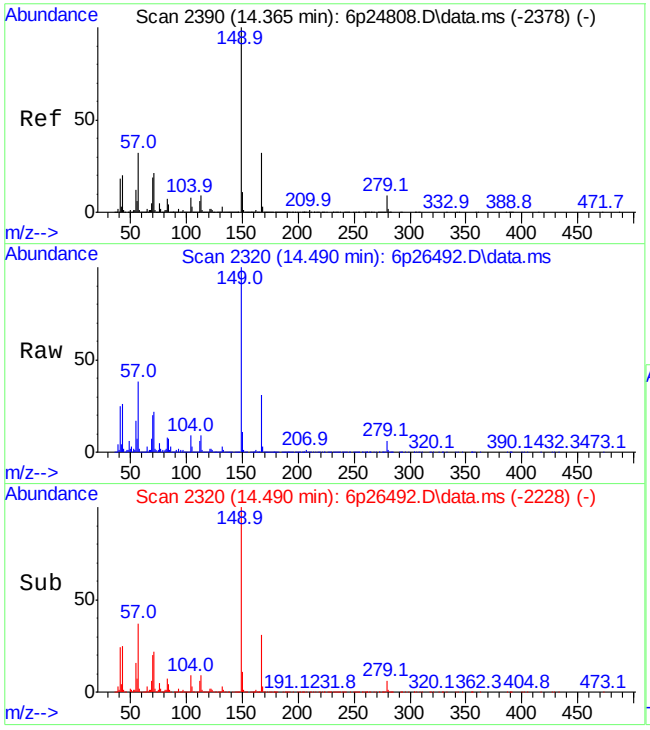
Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26492.D
Acq On : 31 May 2016 9:44 am
Operator : ariellec
Sample : op94328-mb1
Misc : op94328,e6p1232,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:41:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



M6P1209.M Tue May 31 10:41:10 2016 ACLIMS

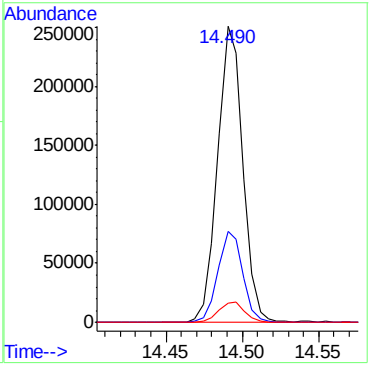
SGS ACCUTEST JC21229



#91
bis(2-Ethylhexyl)phthalate
Concen: 8.70 ppm
RT: 14.490 min Scan# 2320
Delta R.T. -0.006 min
Lab File: 6p26492.D
Acq: 31 May 2016 9:44 am

Tgt Ion:149 Resp: 288781

Ion	Ratio	Lower	Upper
149	100		
167	30.8	0.4	60.4
279	6.4	0.0	36.0



7.2.1

7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26628.D
Acq On : 3 Jun 2016 12:51 am
Operator : seanb1
Sample : op94419-mb1
Misc : op94419,e6p1236,30.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 08:05:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.783	152	438937	40.00 ppm	-0.01
24) Naphthalene-d8	5.895	136	1791379	40.00 ppm	-0.02
47) Acenaphthene-d10	7.992	164	1004258	40.00 ppm	-0.02
69) Phenanthrene-d10	10.185	188	1618791	40.00 ppm	-0.02
83) Chrysene-d12	14.383	240	1373041	40.00 ppm	-0.02
92) Perylene-d12	16.507	264	1183712	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.783	152	438937	40.00 ppm	-0.01
104) Acenaphthene-d10a	7.992	164	1004258	40.00 ppm	-0.02
106) Phenanthrene-d10a	10.185	188	1618791	40.00 ppm	-0.02
108) Chrysene-d12a	14.383	240	1373041	40.00 ppm	-0.02
110) Naphthalene-d8a	5.895	136	1791379	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.814	112	640782	38.31 ppm	0.02
Spiked Amount 50.000			Recovery	= 76.62%	
8) Phenol-d5	4.531	99	842945	38.50 ppm	0.01
Spiked Amount 50.000			Recovery	= 77.00%	
25) Nitrobenzene-d5	5.243	82	899889	45.05 ppm	0.00
Spiked Amount 50.000			Recovery	= 90.10%	
51) 2-Fluorobiphenyl	7.104	172	1430529	44.19 ppm	-0.03
Spiked Amount 50.000			Recovery	= 88.38%	
73) 2,4,6-Tribromophenol	9.136	330	149236	36.79 ppm	0.00
Spiked Amount 50.000			Recovery	= 73.58%	
85) Terphenyl-d14	12.747	244	1346903	46.82 ppm	-0.03
Spiked Amount 50.000			Recovery	= 93.64%	

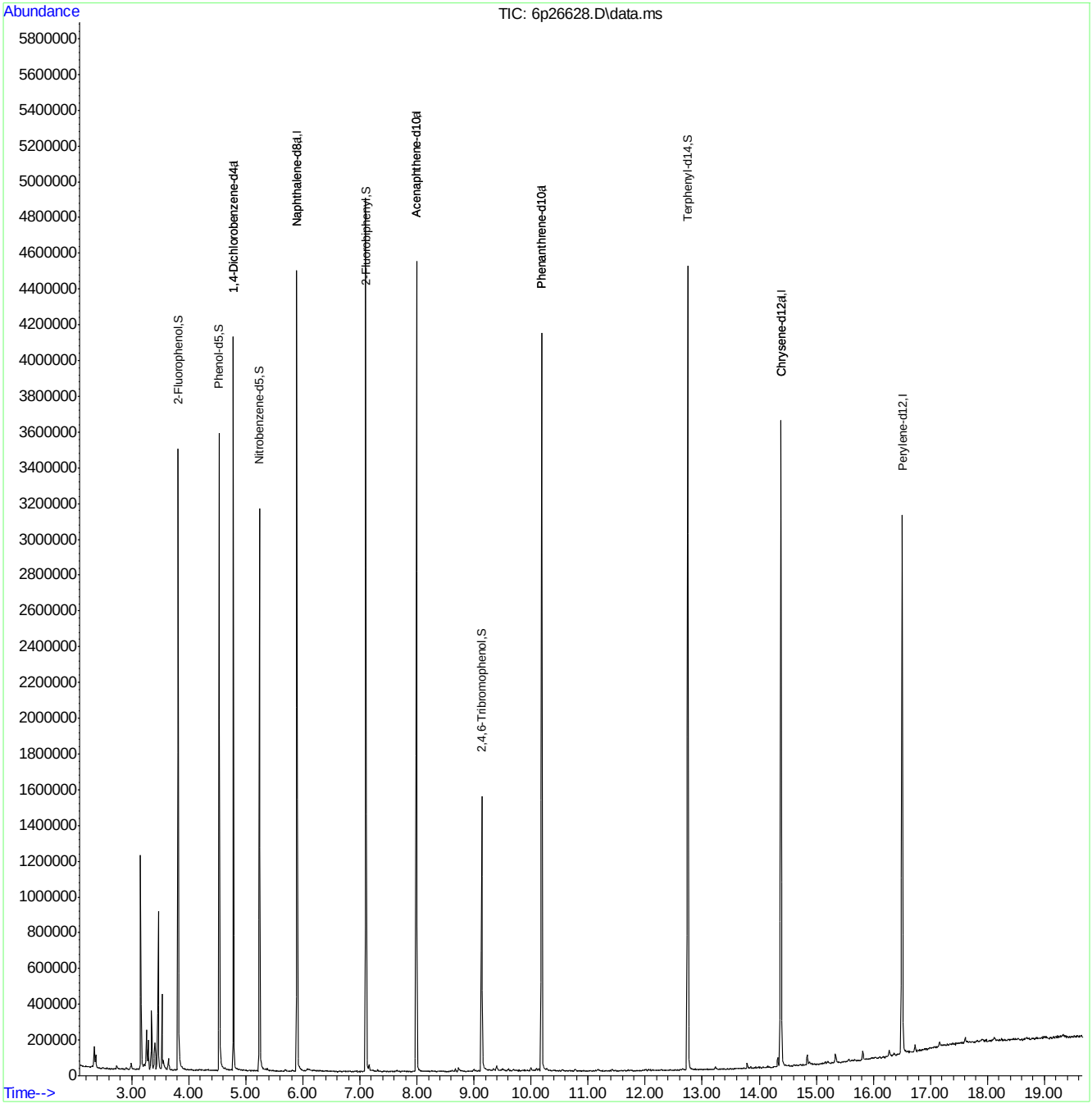
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26628.D
Acq On : 3 Jun 2016 12:51 am
Operator : seanb1
Sample : op94419-mb1
Misc : op94419,e6p1236,30.0
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 08:05:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration



M6P1209.M Fri Jun 03 08:05:28 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61855.D
Acq On : 2 Jun 2016 12:04 am
Operator : juliusj
Sample : op94328a-mb1
Misc : op94328a,e3m2915,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 09:29:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.139	150	1032118	4.00	ppm	-0.08
14) Fluorene-d10	13.130	176	1394130	4.00	ppm	-0.09
21) Fluoranthene-d10	17.371	212	2358489	4.00	ppm	0.02
31) Benzo(a)pyrene-d12	21.991	264	1758480	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.168	112	3673340	27.83	ppm	-0.06
Spiked Amount 50.000			Recovery = 55.66%			
4) Phenol-d5	5.799	99	4213374	19.83	ppm	-0.05
Spiked Amount 50.000			Recovery = 39.66%			
7) Nitrobenzene-d5	7.287	82	5521761	30.79	ppm	-0.08
Spiked Amount 50.000			Recovery = 61.58%			
15) 2-Fluorobiphenyl	10.816	172	12543294	36.38	ppm	-0.09
Spiked Amount 50.000			Recovery = 72.76%			
20) 2,4,6-Tribromophenol	13.695	330	1194621	35.28	ppm	-0.09
Spiked Amount 50.000			Recovery = 70.56%			
28) Terphenyl-d14	18.206	244	12767824	38.77	ppm	0.04
Spiked Amount 50.000			Recovery = 77.54%			

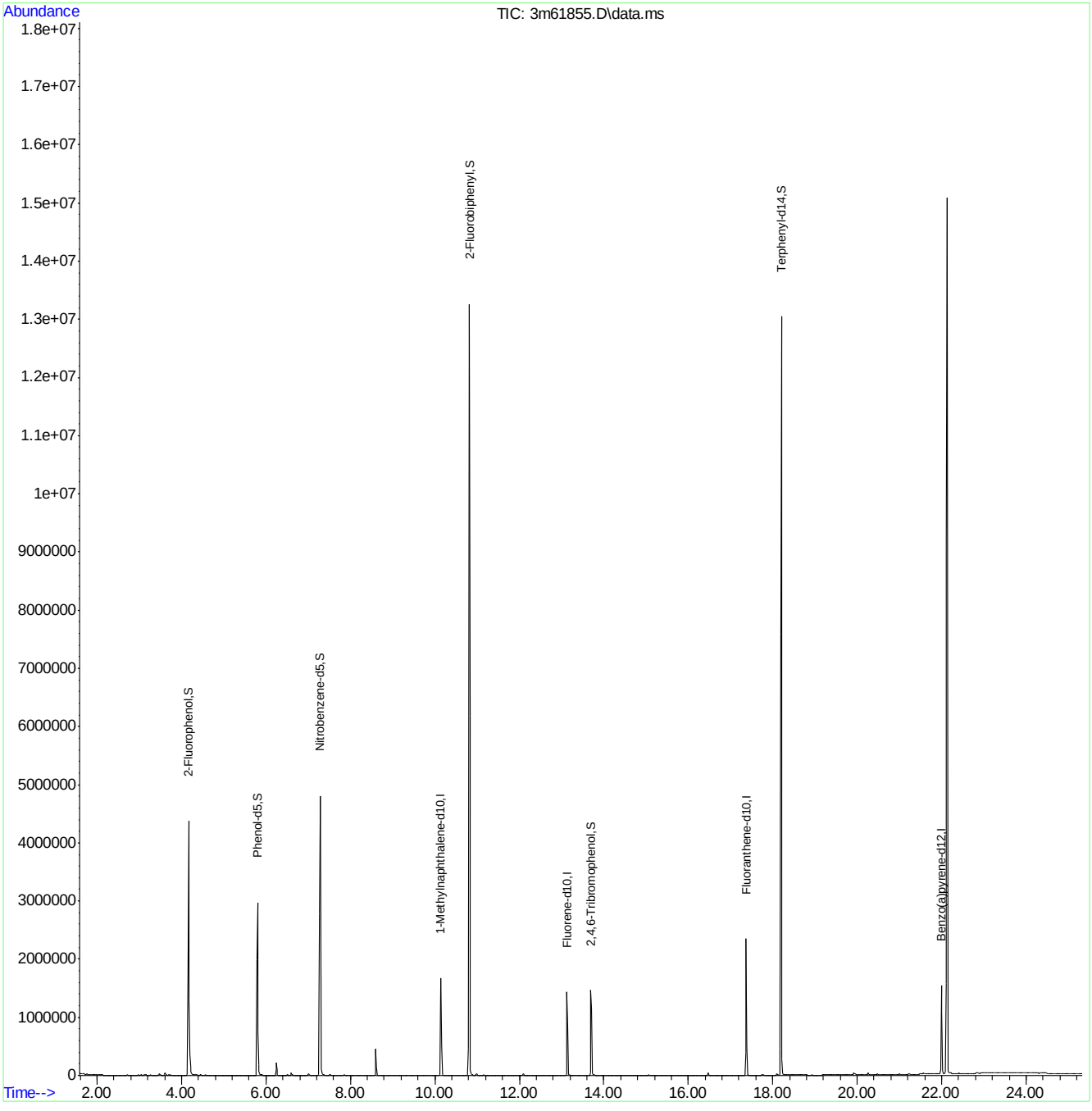
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61855.D
Acq On : 2 Jun 2016 12:04 am
Operator : juliusj
Sample : op94328a-mb1
Misc : op94328a,e3m2915,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 02 09:29:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration



M3M2887SIM.M Thu Jun 02 09:29:54 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62046.D
Acq On : 7 Jun 2016 11:26 pm
Operator : ashleyd
Sample : op94328a-mb1
Misc : op94328a,e3m2924,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 08:38:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.159	150	516295	4.00	ppm	0.04
14) Fluorene-d10	13.168	176	783629	4.00	ppm	0.06
21) Fluoranthene-d10	17.402	212	1283474	4.00	ppm	0.05
31) Benzo(a)pyrene-d12	22.037	264	1023629	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.198	112	1903206	28.83	ppm	0.01
Spiked Amount 50.000			Recovery = 57.66%			
4) Phenol-d5	5.823	99	2234274	21.02	ppm	0.03
Spiked Amount 50.000			Recovery = 42.04%			
7) Nitrobenzene-d5	7.306	82	2910712	32.44	ppm	0.00
Spiked Amount 50.000			Recovery = 64.88%			
15) 2-Fluorobiphenyl	10.846	172	6889999	35.56	ppm	0.03
Spiked Amount 50.000			Recovery = 71.12%			
20) 2,4,6-Tribromophenol	13.733	330	689069	36.20	ppm	0.06
Spiked Amount 50.000			Recovery = 72.40%			
28) Terphenyl-d14	18.221	244	6723526	37.52	ppm	0.05
Spiked Amount 50.000			Recovery = 75.04%			

Target Compounds Qvalue

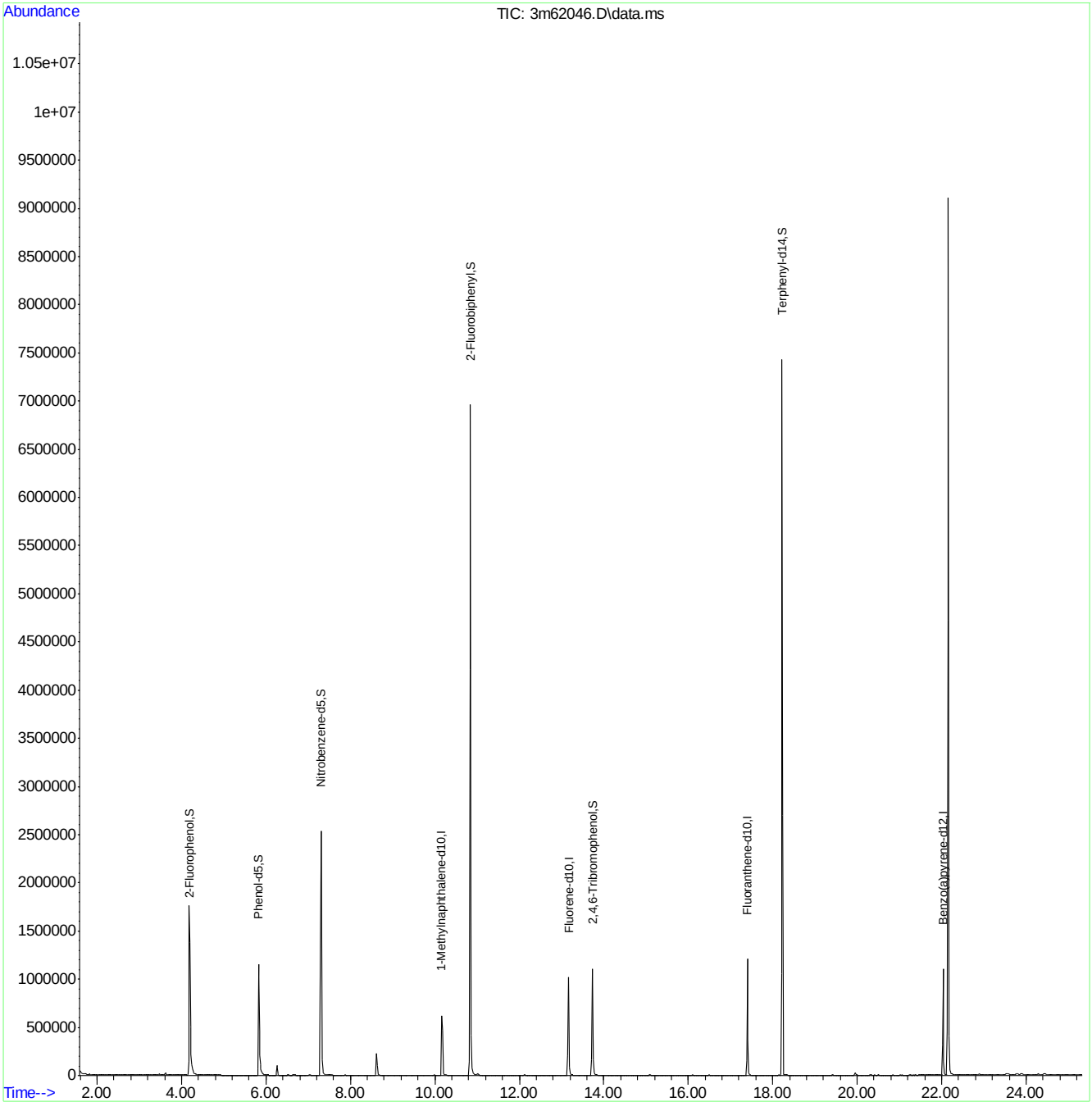
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62046.D
Acq On : 7 Jun 2016 11:26 pm
Operator : ashleyd
Sample : op94328a-mb1
Misc : op94328a,e3m2924,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 08:38:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration



M3M2887SIM.M Wed Jun 08 08:38:42 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62166.D
Acq On : 11 Jun 2016 7:06 am
Operator : juliusj
Sample : op94419a-mb1
Misc : op94419a,e3m2930,30.0
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 13 10:40:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	550097	4.00	ppm	0.06
14) Fluorene-d10	13.186	176	728814	4.00	ppm	0.08
21) Fluoranthene-d10	17.448	212	1124104	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.084	264	1091708	4.00	ppm	0.11
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3485241	49.54	ppm	0.06
Spiked Amount 50.000			Recovery = 99.08%			
4) Phenol-d5	5.883	99	5215218	46.05	ppm	0.09
Spiked Amount 50.000			Recovery = 92.10%			
7) Nitrobenzene-d5	7.306	82	4102693	42.92	ppm	0.00
Spiked Amount 50.000			Recovery = 85.84%			
15) 2-Fluorobiphenyl	10.862	172	9249857	51.32	ppm	0.05
Spiked Amount 50.000			Recovery = 102.64%			
20) 2,4,6-Tribromophenol	13.770	330	797668	45.06	ppm	0.10
Spiked Amount 50.000			Recovery = 90.12%			
28) Terphenyl-d14	18.267	244	8912743	56.79	ppm	0.10
Spiked Amount 50.000			Recovery = 113.58%			

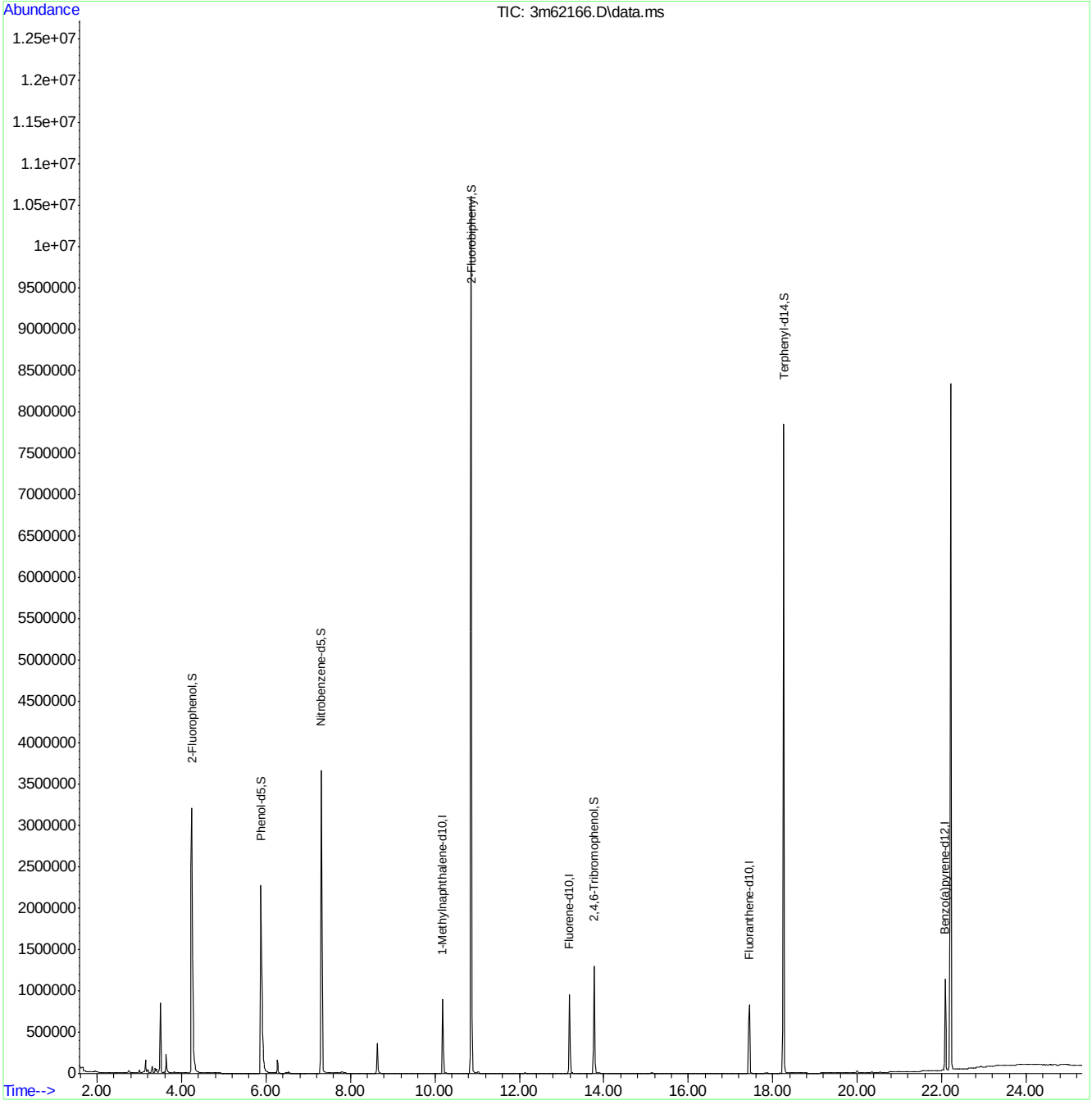
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62166.D
Acq On : 11 Jun 2016 7:06 am
Operator : juliusj
Sample : op94419a-mb1
Misc : op94419a,e3m2930,30.0
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 13 10:40:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16863.D
Acq On : 13 Jun 2016 10:14 am
Operator : linseyk
Sample : op94419a-mb1
Misc : op94419a,e4p896,30.0
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 11:22:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.717	150	218096	4.00	ppm	-0.05
13) Fluorene-d10	10.661	176	211255	4.00	ppm	-0.05
23) Fluoranthene-d10	14.867	212	329752	4.00	ppm	-0.03
33) Benzo(a)pyrene-d12	19.490	264	217653	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	2.588	112	981594	32.86	ppm	-0.07
Spiked Amount 50.000			Recovery = 65.72%			
4) Phenol-d5	3.716	99	1765976	35.00	ppm	-0.03
Spiked Amount 50.000			Recovery = 70.00%			
7) Nitrobenzene-d5	5.026	82	1395716	37.91	ppm	-0.04
Spiked Amount 50.000			Recovery = 75.82%			
14) 2-Fluorobiphenyl	8.381	172	3045196	53.68	ppm	-0.05
Spiked Amount 50.000			Recovery = 107.36%			
22) 2,4,6-Tribromophenol	11.192	330	345850	59.25	ppm	-0.04
Spiked Amount 50.000			Recovery = 118.50%			
30) Terphenyl-d14	15.710	244	2038945	49.34	ppm	-0.05
Spiked Amount 50.000			Recovery = 98.68%			

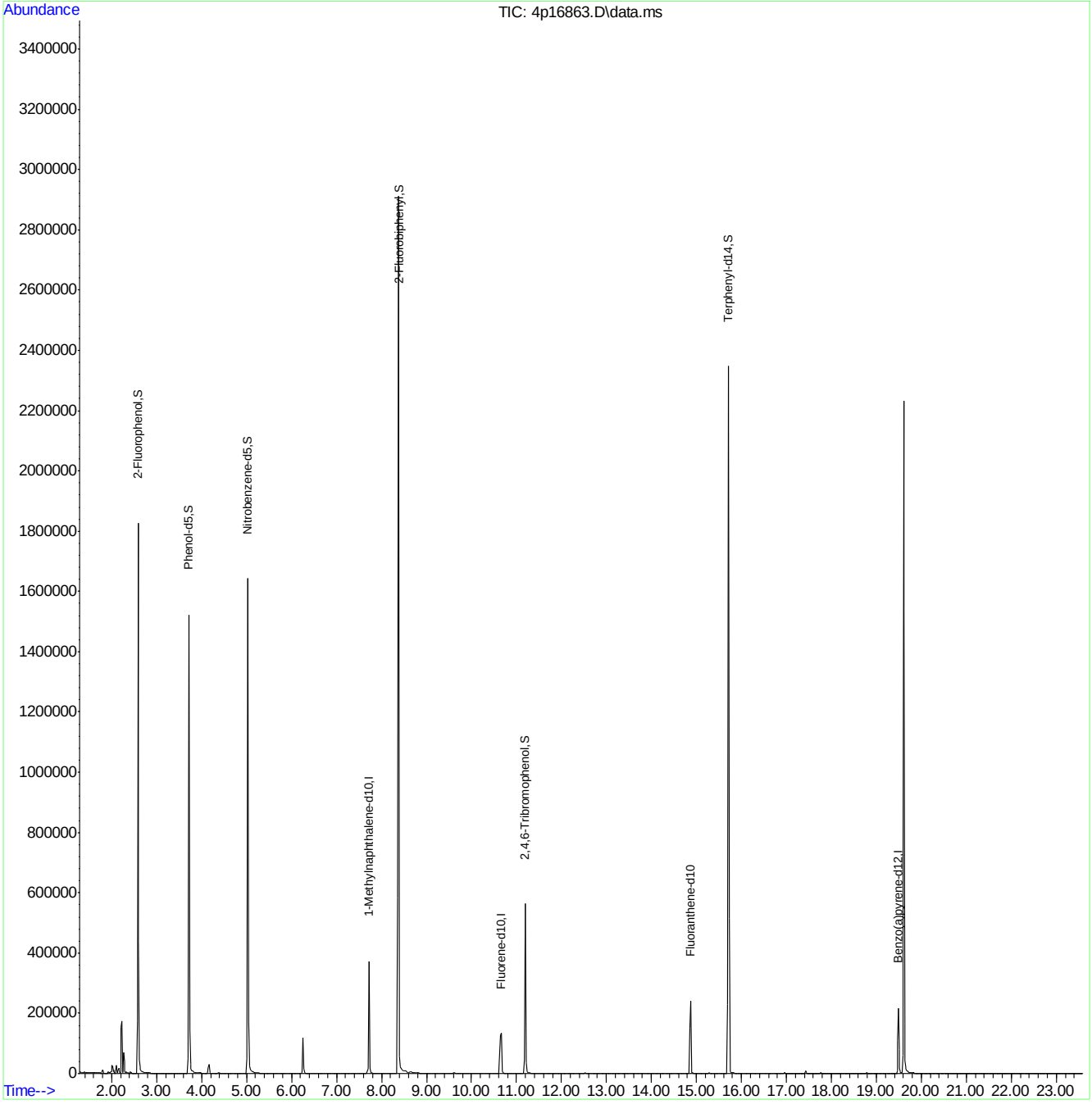
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16863.D
Acq On : 13 Jun 2016 10:14 am
Operator : linseyk
Sample : op94419a-mb1
Misc : op94419a,e4p896,30.0
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 13 11:22:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/31/16 13:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26493.D
Acq On : 31 May 2016 10:12 am
Operator : ariellec
Sample : op94328-bs1
Misc : op94328,e6p1232,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 10:43:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.761	152	491744	40.00	ppm	0.00
24) Naphthalene-d8	5.873	136	1925303	40.00	ppm	0.00
47) Acenaphthene-d10	7.965	164	1009219	40.00	ppm	0.00
69) Phenanthrene-d10	10.152	188	1634974	40.00	ppm	0.00
83) Chrysene-d12	14.351	240	1452310	40.00	ppm	0.00
92) Perylene-d12	16.469	264	1236503	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.761	152	491744	40.00	ppm	0.00
104) Acenaphthene-d10a	7.965	164	1009219	40.00	ppm	0.00
106) Phenanthrene-d10a	10.152	188	1634974	40.00	ppm	0.00
108) Chrysene-d12a	14.351	240	1452310	40.00	ppm	0.00
110) Naphthalene-d8a	5.873	136	1925303	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	391944	20.92	ppm	0.01
Spiked Amount 50.000			Recovery = 41.84%			
8) Phenol-d5	4.504	99	348043	14.19	ppm	0.02
Spiked Amount 50.000			Recovery = 28.38%			
25) Nitrobenzene-d5	5.221	82	837175	38.99	ppm	0.00
Spiked Amount 50.000			Recovery = 77.98%			
51) 2-Fluorobiphenyl	7.082	172	1287056	39.56	ppm	-0.01
Spiked Amount 50.000			Recovery = 79.12%			
73) 2,4,6-Tribromophenol	9.109	330	146039	35.64	ppm	0.02
Spiked Amount 50.000			Recovery = 71.28%			
85) Terphenyl-d14	12.709	244	1224523	40.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 80.50%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.354	88	140005	16.03	ppm	98
3) Pyridine	2.670	79	426870	19.31	ppm	95
4) N-Nitrosodimethylamine	2.638	74	248399	18.81	ppm	85
6) Indene	4.964	116	1275658	38.13	ppm	99
7) Cumene	4.157	105	1570293	33.08	ppm	98
9) Phenol	4.515	94	456426	17.35	ppm #	25
10) Aniline	4.515	93	911695	30.56	ppm	75
11) bis(2-Chloroethyl)ether	4.563	93	687475	36.78	ppm	100
12) 2-Chlorophenol	4.611	128	649664	34.06	ppm	99
13) Decane	4.622	43	672181	27.48	ppm	99
14) 1,3-Dichlorobenzene	4.718	146	557907	27.95	ppm	98
15) 1,4-Dichlorobenzene	4.777	146	581258	28.73	ppm	97
16) Benzyl alcohol	4.879	108	397173	30.48	ppm	94
17) 1,2-Dichlorobenzene	4.895	146	548317	28.62	ppm	98
18) Acetophenone	5.087	105	1080860	39.15	ppm	95
19) 2-Methylphenol	4.975	108	561066	30.91	ppm	93
20) 2,2'-oxybis(1-Chloropr...	4.975	121	209249	31.27	ppm #	70
21) 3&4-Methylphenol	5.098	108	550519	28.75	ppm	97
22) n-Nitroso-di-n-propyla...	5.087	70	605933	36.80	ppm	99
23) Hexachloroethane	5.167	201	166195	27.57	ppm	94
26) Nitrobenzene	5.237	77	858108	38.27	ppm	99
27) Quinoline	6.248	129	1414785	39.41	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26493.D
Acq On : 31 May 2016 10:12 am
Operator : ariellec
Sample : op94328-bs1
Misc : op94328,e6p1232,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 10:43:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28)	Isophorone	5.440	82	1557470	40.93	ppm		98
29)	2-Nitrophenol	5.515	139	377535	39.87	ppm		93
30)	2,4-Dimethylphenol	5.558	107	735769	41.83	ppm		96
31)	Benzoic acid	5.670	105	239368	23.43	ppm		91
32)	bis(2-Chloroethoxy)met...	5.633	93	779932	36.27	ppm		99
33)	2,4-Dichlorophenol	5.745	162	520354	38.52	ppm		93
34)	2,6-Dichlorophenol	5.964	162	524097	40.34	ppm		97
36)	1,2,4-Trichlorobenzene	5.815	180	419151	29.49	ppm		98
38)	Naphthalene	5.895	128	1831066	33.71	ppm		92
39)	4-Chloroaniline	5.959	127	693716	31.31	ppm		99
40)	2,3-Dichloroaniline	6.986	161	642625	38.36	ppm		98
41)	Caprolactam	6.339	55	95002	10.44	ppm		97
42)	Hexachlorobutadiene	6.007	225	214738	29.59	ppm		99
43)	4-Chloro-3-methylphenol	6.494	107	678994	40.62	ppm		98
44)	2-Methylnaphthalene	6.638	141	1088489	37.33	ppm		97
45)	1-Methylnaphthalene	6.756	141	1147795	38.33	ppm		96
46)	Dimethylnaphthalene	7.409	156	1101127	36.05	ppm		96
48)	Hexachlorocyclopentadiene	6.815	237	280091	39.62	ppm		94
49)	2,4,6-Trichlorophenol	6.991	196	359485	43.86	ppm		98
50)	2,4,5-Trichlorophenol	7.039	196	361430	40.19	ppm		97
52)	2-Chloronaphthalene	7.232	162	988332	34.31	ppm		98
53)	Biphenyl	7.211	154	1546001	39.96	ppm		99
54)	2-Nitroaniline	7.382	65	536552	51.14	ppm		90
55)	Dimethylphthalate	7.622	163	1375032	40.92	ppm		99
56)	Acenaphthylene	7.772	152	1751163	36.27	ppm		99
57)	2,6-Dinitrotoluene	7.708	165	319737	46.42	ppm		91
58)	3-Nitroaniline	7.943	138	314625	35.79	ppm		96
59)	Acenaphthene	8.013	153	1140512	37.45	ppm		95
60)	2,4-Dinitrophenol	8.093	184	327831	91.07	ppm		95
61)	4-Nitrophenol	8.238	109	120746	23.37	ppm	#	13
62)	Dibenzofuran	8.254	168	1683969	41.58	ppm		96
63)	2,4-Dinitrotoluene	8.275	165	426797	46.14	ppm		75
64)	2,3,4,6-Tetrachlorophenol	8.446	232	270891	42.50	ppm		99
65)	Diethylphthalate	8.628	149	1421280	41.53	ppm		98
66)	Fluorene	8.746	166	1324695	39.07	ppm		100
67)	4-Chlorophenyl-phenyle...	8.762	204	550859	36.13	ppm		92
68)	4-Nitroaniline	8.826	138	368340	40.00	ppm		98
70)	4,6-Dinitro-2-methylph...	8.863	198	231226	46.57	ppm		88
71)	n-Nitrosodiphenylamine	8.949	169	958743	41.98	ppm		99
72)	1,2-Diphenylhydrazine	8.997	77	1711736	41.67	ppm		98
74)	4-Bromophenyl-phenylether	9.494	248	312309	37.98	ppm		98
75)	Hexachlorobenzene	9.559	284	317382	35.34	ppm		84
76)	Pentachlorophenol	9.885	266	171874	33.16	ppm		96
77)	Phenanthrene	10.190	178	1870769	39.46	ppm		99
78)	Anthracene	10.270	178	1864275	39.69	ppm		99
79)	Carbazole	10.554	167	1872718	42.35	ppm		99
80)	Di-n-butylphthalate	11.158	149	2376658	42.71	ppm		99
81)	Fluoranthene	12.056	202	2014185	40.00	ppm		99
82)	Octadecane	10.072	57	1088167	44.50	ppm		98
84)	Pyrene	12.410	202	2057533	41.77	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26493.D
Acq On : 31 May 2016 10:12 am
Operator : ariellec
Sample : op94328-bs1
Misc : op94328,e6p1232,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 10:43:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

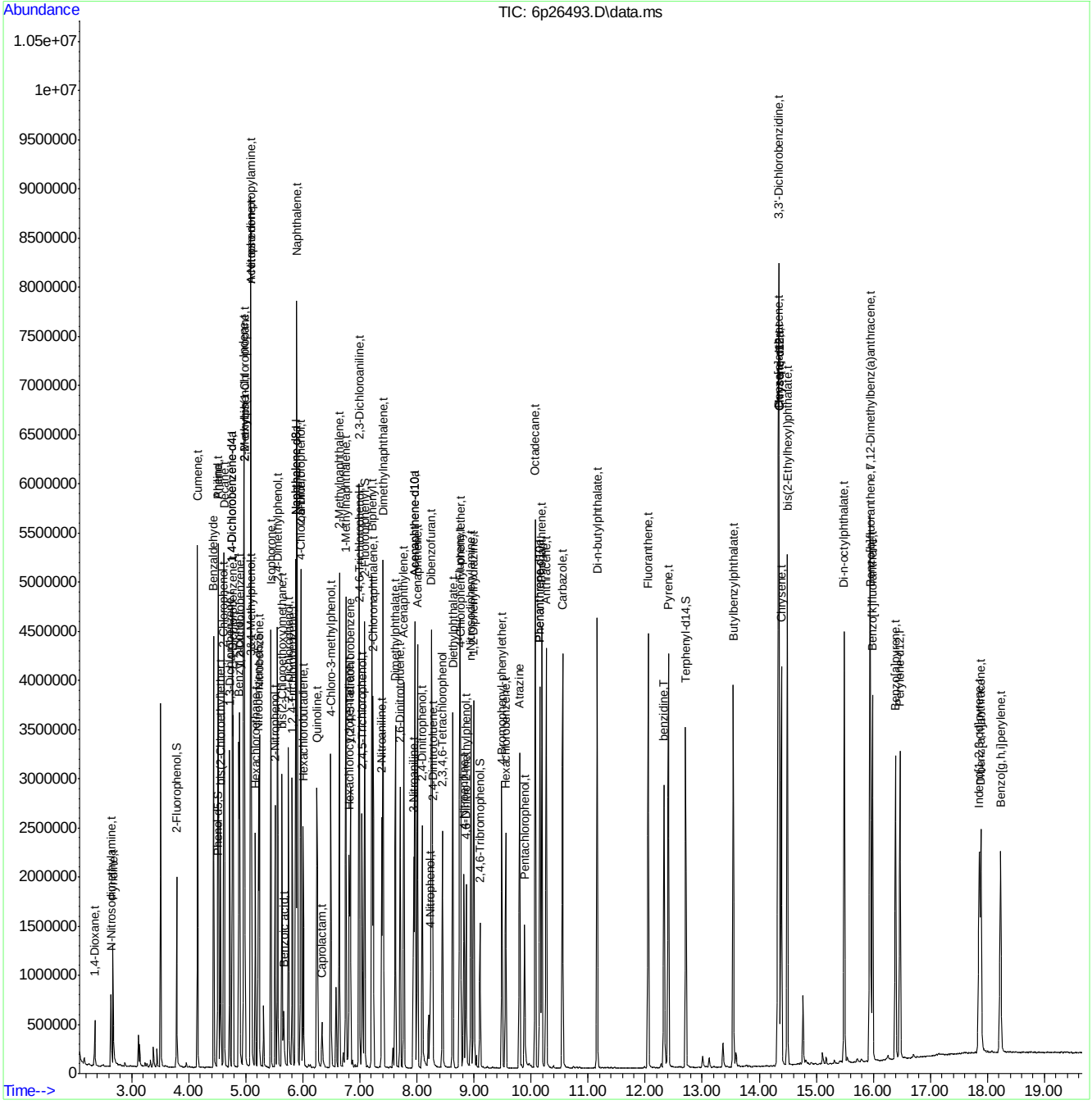
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Butylbenzylphthalate	13.543	149	1005560	46.34	ppm	93
88)	Benzo[a]anthracene	14.335	228	1712400	39.71	ppm	98
89)	3,3'-Dichlorobenzidine	14.346	252	818752	55.34	ppm	98
90)	Chrysene	14.389	228	1601786	38.33	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.495	149	1397616	44.88	ppm	99
93)	Di-n-octylphthalate	15.490	149	2301099	49.17	ppm	100
94)	Benzo[b]fluoranthene	15.950	252	1592095	40.72	ppm	100
95)	Benzo[k]fluoranthene	15.988	252	1523014	40.28	ppm	99
96)	Benzo[a]pyrene	16.389	252	1339677	40.08	ppm	70
97)	Indeno[1,2,3-cd]pyrene	17.854	276	1160754m	34.18	ppm	
99)	Dibenz[a,h]anthracene	17.887	278	1193567	32.47	ppm	97
100)	7,12-Dimethylbenz(a)an...	15.945	256	647498	39.65	ppm	96
101)	Benzo[g,h,i]perylene	18.229	276	1155186	31.37	ppm	98
103)	Benzaldehyde	4.435	105	572219	38.63	ppm	95
105)	1,2,4,5-Tetrachloroben...	6.836	216	450507	36.01	ppm	98
107)	Atrazine	9.799	215	205081	50.22	ppm	87
109)	benzidine	12.329	184	1232589	74.83	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26493.D
Acq On : 31 May 2016 10:12 am
Operator : ariellec
Sample : op94328-bs1
Misc : op94328,e6p1232,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 10:43:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

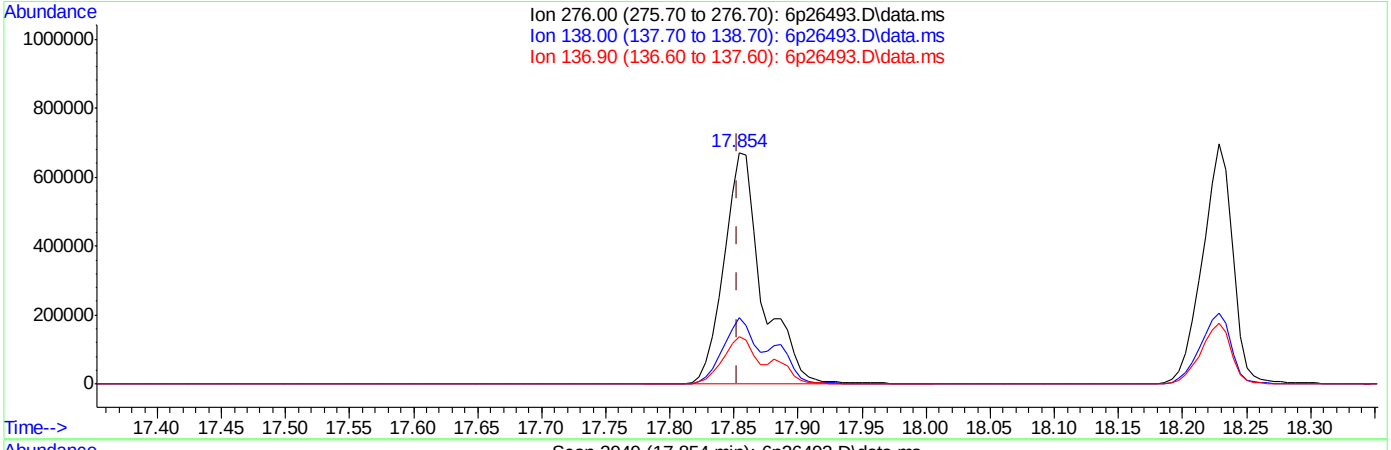
Sample Number:	OP94328-BS1	**Method:**	SW846 8270D
Lab FileID:	6P26493.D	**Analyst approved:**	05/31/16 10:46 Arielle Cocozza
Injection Time:	05/31/16 10:12	**Supervisor approved:**	05/31/16 13:43 Nina Pandya

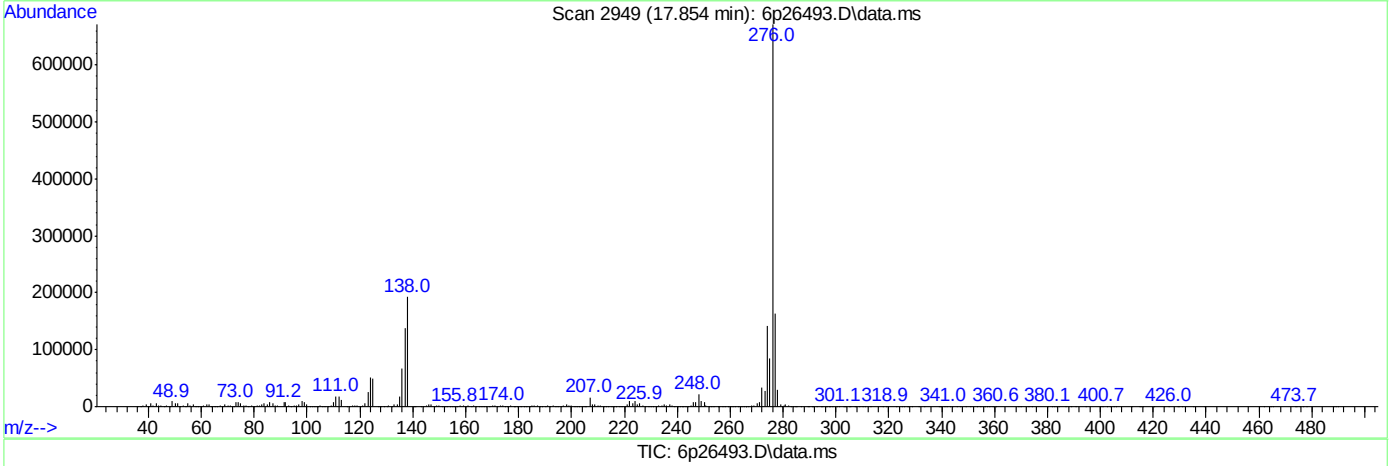
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.85	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26493.D
Acq On : 31 May 2016 10:12 am
Operator : ariellec
Sample : op94328-bs1
Misc : op94328,e6p1232,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 10:31:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26493.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.854min (+0.002) 41.38ppm

response 1405345

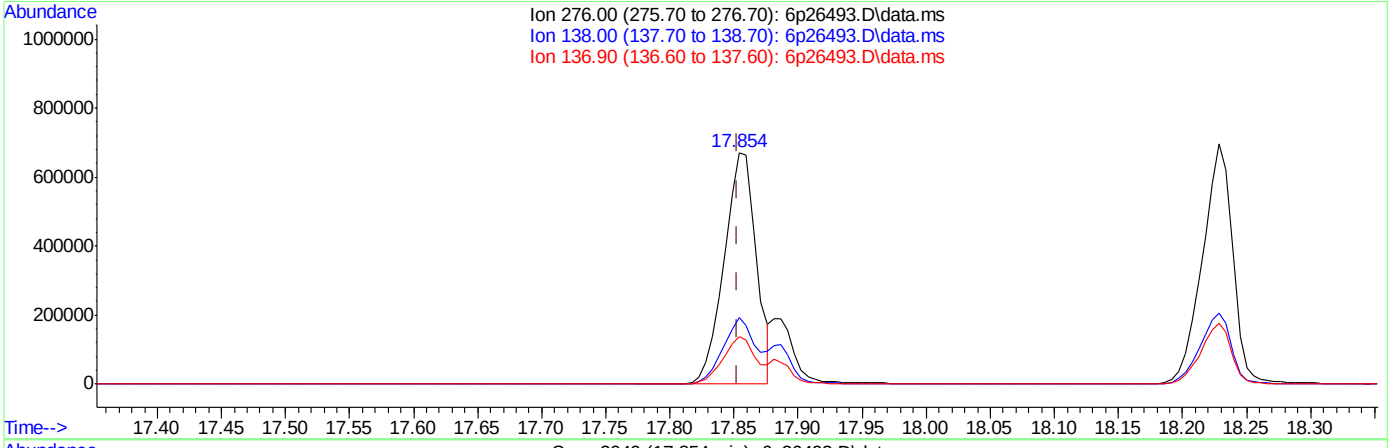
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	28.59
136.90	22.40	20.25
0.00	0.00	0.00

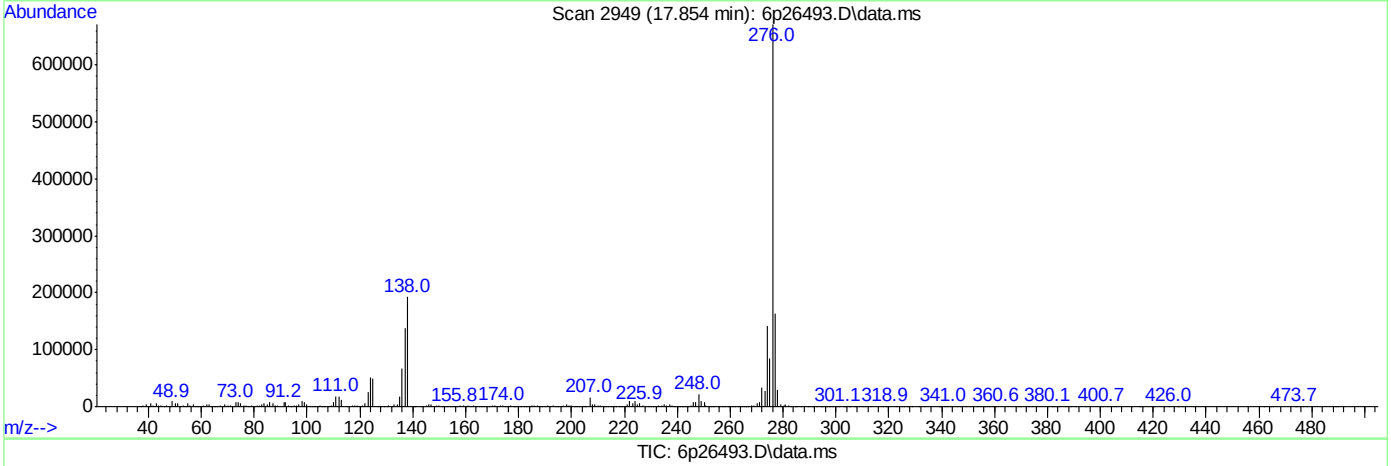
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26493.D
Acq On : 31 May 2016 10:12 am
Operator : ariellec
Sample : op94328-bs1
Misc : op94328,e6p1232,1000
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 10:31:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26493.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.854min (+0.002) 34.18ppm m

response 1160754

Ion	Exp%	Act%
276.00	100	100
138.00	28.40	28.62
136.90	22.40	20.41
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/03/16 08:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 08:06:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.788	152	508413	40.00	ppm	0.00
24) Naphthalene-d8	5.900	136	2105500	40.00	ppm	-0.02
47) Acenaphthene-d10	7.992	164	1151683	40.00	ppm	-0.02
69) Phenanthrene-d10	10.190	188	1843037	40.00	ppm	-0.02
83) Chrysene-d12	14.389	240	1615798	40.00	ppm	-0.02
92) Perylene-d12	16.507	264	1308757	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.788	152	508413	40.00	ppm	0.00
104) Acenaphthene-d10a	7.992	164	1151683	40.00	ppm	-0.02
106) Phenanthrene-d10a	10.190	188	1843037	40.00	ppm	-0.02
108) Chrysene-d12a	14.389	240	1615798	40.00	ppm	-0.02
110) Naphthalene-d8a	5.900	136	2105500	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.814	112	699450	36.11	ppm	0.02
Spiked Amount 50.000			Recovery = 72.22%			
8) Phenol-d5	4.537	99	962722	37.96	ppm	0.02
Spiked Amount 50.000			Recovery = 75.92%			
25) Nitrobenzene-d5	5.243	82	970490	41.33	ppm	0.00
Spiked Amount 50.000			Recovery = 82.66%			
51) 2-Fluorobiphenyl	7.109	172	1487228	40.06	ppm	-0.02
Spiked Amount 50.000			Recovery = 80.12%			
73) 2,4,6-Tribromophenol	9.142	330	158322	34.28	ppm	0.00
Spiked Amount 50.000			Recovery = 68.56%			
85) Terphenyl-d14	12.747	244	1325735	39.16	ppm	-0.03
Spiked Amount 50.000			Recovery = 78.32%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.370	88	177284	19.64	ppm	93
3) Pyridine	2.686	79	562839	24.63	ppm	82
4) N-Nitrosodimethylamine	2.659	74	411326	30.13	ppm #	65
6) Indene	4.986	116	1413393	40.87	ppm	98
7) Cumene	4.178	105	1888918	38.49	ppm	98
9) Phenol	4.547	94	1049836	38.60	ppm	99
10) Aniline	4.542	93	886031	28.73	ppm	91
11) bis(2-Chloroethyl)ether	4.585	93	742190	38.40	ppm	96
12) 2-Chlorophenol	4.638	128	767445	38.92	ppm	99
13) Decane	4.644	43	937984	37.09	ppm	99
14) 1,3-Dichlorobenzene	4.740	146	742028	35.95	ppm	99
15) 1,4-Dichlorobenzene	4.799	146	778009	37.19	ppm	99
16) Benzyl alcohol	4.906	108	496453	36.84	ppm	87
17) 1,2-Dichlorobenzene	4.916	146	723125	36.50	ppm	99
18) Acetophenone	5.114	105	1180383	41.35	ppm	96
19) 2-Methylphenol	5.007	108	698709	37.23	ppm	89
20) 2,2'-oxybis(1-Chloropr...	4.997	121	237746	34.37	ppm #	87
21) 3&4-Methylphenol	5.130	108	753186	38.04	ppm	94
22) n-Nitroso-di-n-propyla...	5.114	70	687344	40.38	ppm	97
23) Hexachloroethane	5.194	201	232260	37.26	ppm	89
26) Nitrobenzene	5.264	77	983541	40.11	ppm	99
27) Quinoline	6.275	129	1447078	36.86	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 08:06:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.462	82	1720649	41.35	ppm		92
29) 2-Nitrophenol	5.542	139	404798	39.09	ppm		89
30) 2,4-Dimethylphenol	5.585	107	862715	44.85	ppm		93
31) Benzoic acid	5.719	105	584907m	46.73	ppm		
32) bis(2-Chloroethoxy)met...	5.660	93	854867	36.35	ppm		99
33) 2,4-Dichlorophenol	5.777	162	573311	38.80	ppm		96
34) 2,6-Dichlorophenol	5.991	162	561785	39.54	ppm		96
36) 1,2,4-Trichlorobenzene	5.842	180	573271	36.88	ppm		98
38) Naphthalene	5.922	128	2317796	39.02	ppm		93
39) 4-Chloroaniline	5.986	127	508362	20.98	ppm		96
40) 2,3-Dichloroaniline	7.013	161	618278	33.75	ppm		97
41) Caprolactam	6.382	55	385391	38.71	ppm		96
42) Hexachlorobutadiene	6.029	225	319666	40.27	ppm		98
43) 4-Chloro-3-methylphenol	6.526	107	778770	42.61	ppm		93
44) 2-Methylnaphthalene	6.665	141	1222457	38.34	ppm		96
45) 1-Methylnaphthalene	6.783	141	1289278	39.37	ppm		97
46) Dimethylnaphthalene	7.436	156	1281394	38.36	ppm		93
48) Hexachlorocyclopentadiene	6.842	237	492160	61.00	ppm		97
49) 2,4,6-Trichlorophenol	7.018	196	381456	40.78	ppm		98
50) 2,4,5-Trichlorophenol	7.077	196	375776	36.62	ppm		99
52) 2-Chloronaphthalene	7.259	162	1241880	37.78	ppm		95
53) Biphenyl	7.238	154	1775425	40.21	ppm		98
54) 2-Nitroaniline	7.414	65	614048	51.28	ppm		86
55) Dimethylphthalate	7.649	163	1502111	39.17	ppm		100
56) Acenaphthylene	7.805	152	2118135	38.44	ppm		99
57) 2,6-Dinitrotoluene	7.740	165	344360	43.81	ppm		91
58) 3-Nitroaniline	7.970	138	255981	25.52	ppm		89
59) Acenaphthene	8.040	153	1392633	40.08	ppm		100
60) 2,4-Dinitrophenol	8.131	184	338782	83.66	ppm		92
61) 4-Nitrophenol	8.275	109	259903	44.08	ppm	#	48
62) Dibenzofuran	8.286	168	1859366	40.24	ppm		90
63) 2,4-Dinitrotoluene	8.302	165	464752	44.03	ppm		91
64) 2,3,4,6-Tetrachlorophenol	8.479	232	281255	38.67	ppm		95
65) Diethylphthalate	8.655	149	1576777	40.38	ppm		99
66) Fluorene	8.778	166	1543171	39.88	ppm		98
67) 4-Chlorophenyl-phenyle...	8.789	204	664868	38.22	ppm		88
68) 4-Nitroaniline	8.858	138	380532	36.21	ppm		91
70) 4,6-Dinitro-2-methylph...	8.901	198	244616	44.03	ppm		90
71) n-Nitrosodiphenylamine	8.981	169	1089140	42.30	ppm		99
72) 1,2-Diphenylhydrazine	9.029	77	2030062	43.84	ppm		98
74) 4-Bromophenyl-phenylether	9.521	248	354601	38.25	ppm		90
75) Hexachlorobenzene	9.591	284	359240	35.49	ppm		78
76) Pentachlorophenol	9.923	266	173797	29.75	ppm		98
77) Phenanthrene	10.228	178	2017312	37.75	ppm		99
78) Anthracene	10.308	178	2082716	39.33	ppm		99
79) Carbazole	10.591	167	1977672	39.67	ppm		99
80) Di-n-butylphthalate	11.185	149	2638564	42.07	ppm		98
81) Fluoranthene	12.094	202	2149086	37.86	ppm		97
82) Octadecane	10.099	57	1335642	48.45	ppm		99
84) Pyrene	12.447	202	2234137	40.76	ppm		98

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 08:06:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86)	Butylbenzylphthalate	13.576	149	1114755	46.18	ppm		93
88)	Benzo[a]anthracene	14.373	228	1895824	39.52	ppm		99
89)	3,3'-Dichlorobenzidine	14.378	252	938537	57.02	ppm		98
90)	Chrysene	14.432	228	1708805	36.76	ppm		99
91)	bis(2-Ethylhexyl)phtha...	14.522	149	1538704	44.42	ppm		99
93)	Di-n-octylphthalate	15.517	149	2548535	51.43	ppm		99
94)	Benzo[b]fluoranthene	15.988	252	1730686	41.82	ppm		99
95)	Benzo[k]fluoranthene	16.031	252	1560560	39.00	ppm		98
96)	Benzo[a]pyrene	16.432	252	1457744	41.20	ppm		69
97)	Indeno[1,2,3-cd]pyrene	17.908	276	1338997m	37.25	ppm		
99)	Dibenz[a,h]anthracene	17.935	278	1277299	32.83	ppm		99
100)	7,12-Dimethylbenz(a)an...	15.983	256	809652	46.84	ppm		94
101)	Benzo[g,h,i]perylene	18.288	276	1215137	31.18	ppm		97
103)	Benzaldehyde	4.456	105	566746	37.01	ppm		94
105)	1,2,4,5-Tetrachloroben...	6.863	216	599505	41.99	ppm		99
107)	Atrazine	9.832	215	213315	46.34	ppm	#	76
109)	benzidine	12.362	184	927336	53.85	ppm		99

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

7.3.2

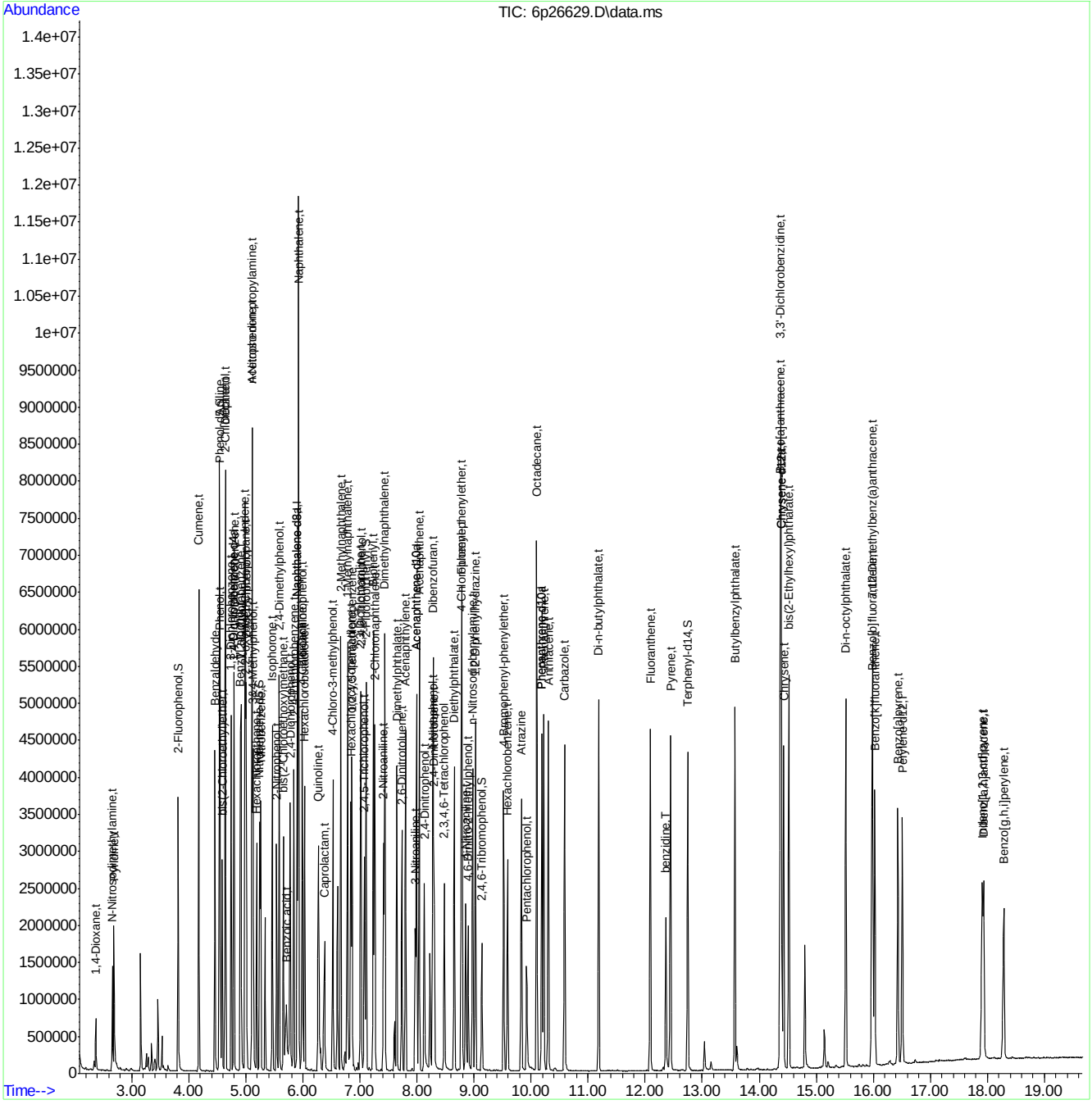
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 08:06:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

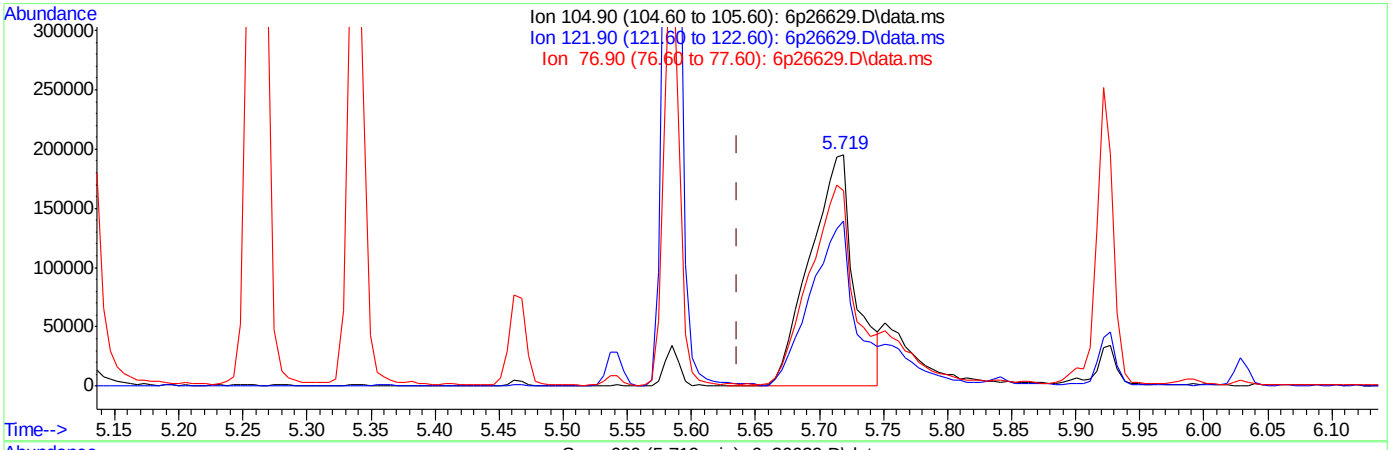
Sample Number:	OP94419-BS1	**Method:**	SW846 8270D
Lab FileID:	6P26629.D	**Analyst approved:**	06/03/16 08:23 Arielle Cocozza
Injection Time:	06/03/16 01:18	**Supervisor approved:**	06/03/16 08:49 Nina Pandya

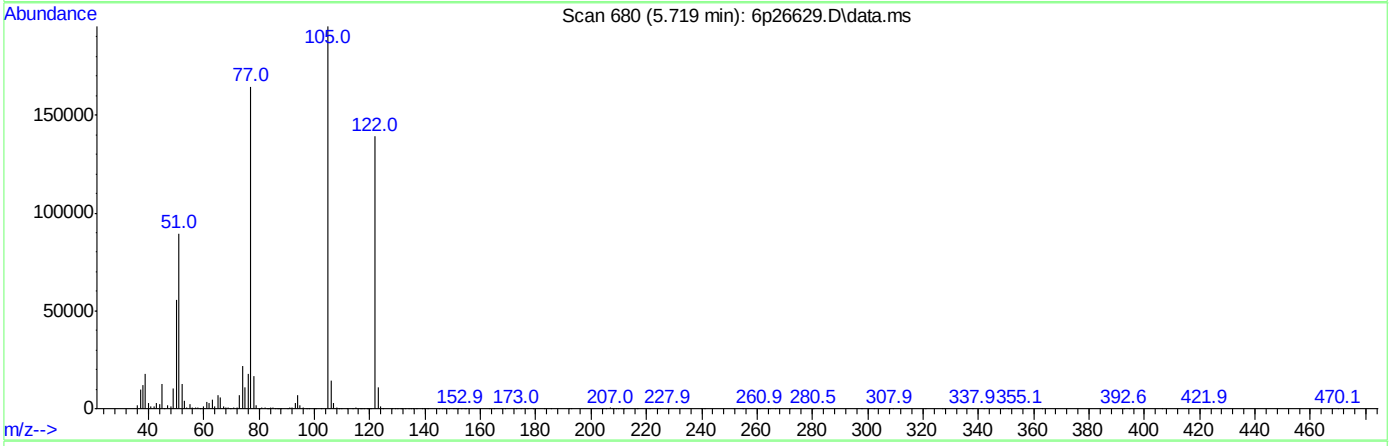
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		5.72	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		17.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 01:38:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26629.D\data.ms

(31) Benzoic acid (t)

5.719min (+0.083) 39.06ppm

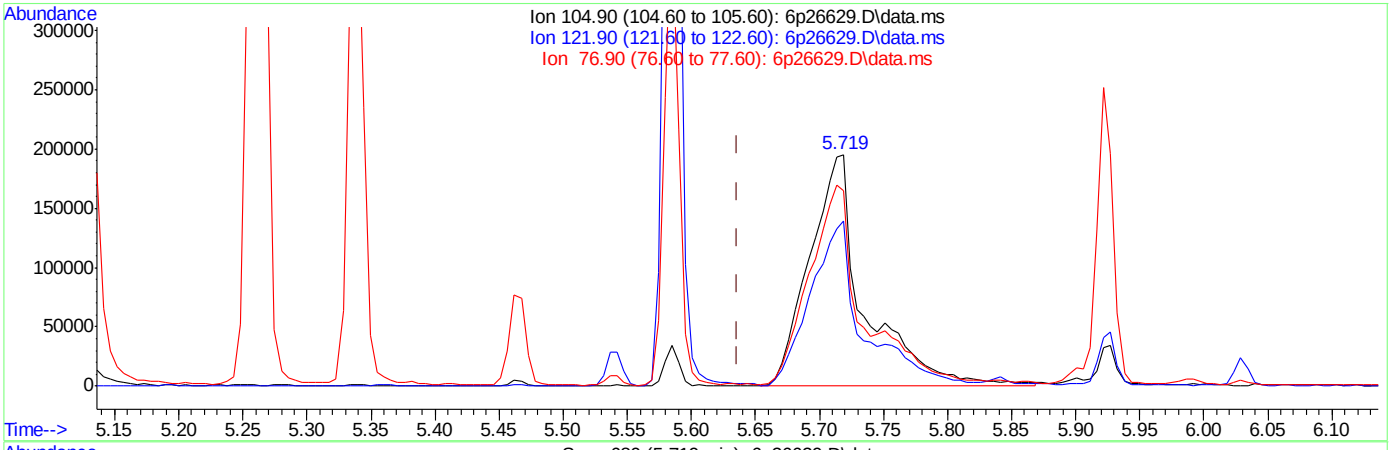
response 473942

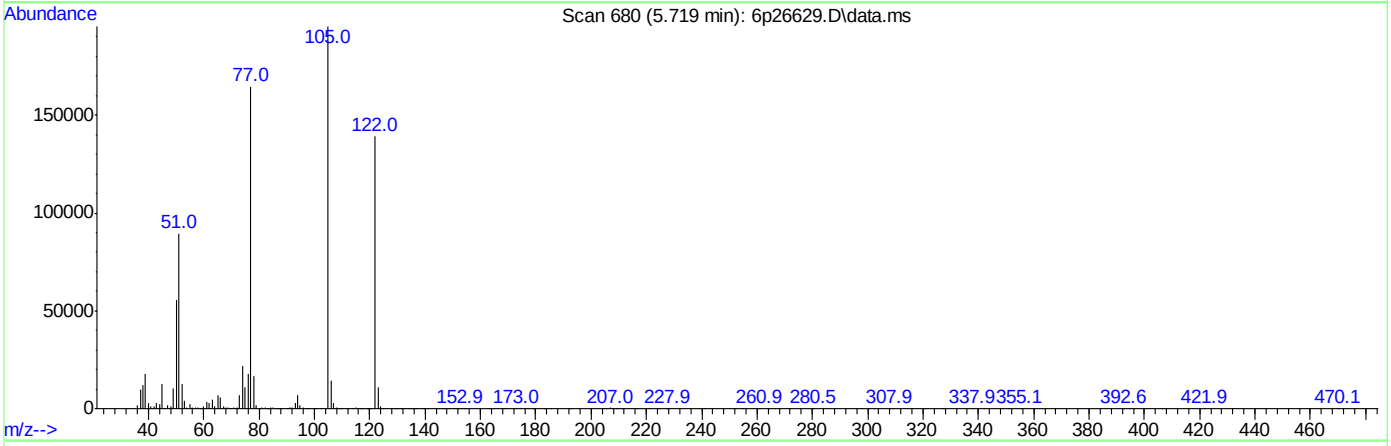
Ion	Exp%	Act%
104.90	100	100
121.90	61.80	70.31
76.90	78.40	82.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 01:38:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26629.D\data.ms

(31) Benzoic acid (t)

5.719min (+0.083) 46.73ppm m

response 584907

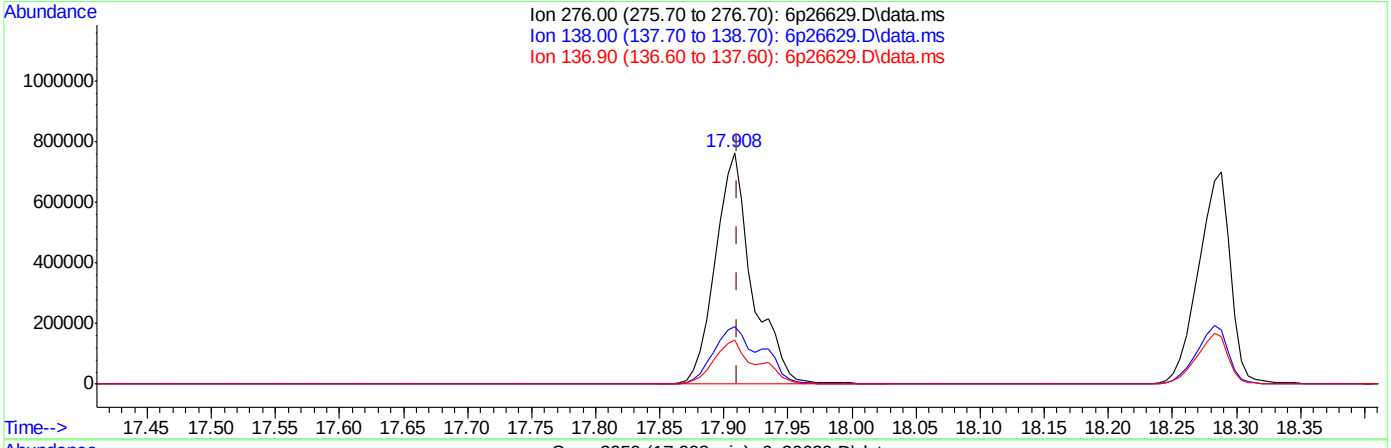
Ion	Exp%	Act%
104.90	100	100
121.90	61.80	71.37
76.90	78.40	84.28
0.00	0.00	0.00

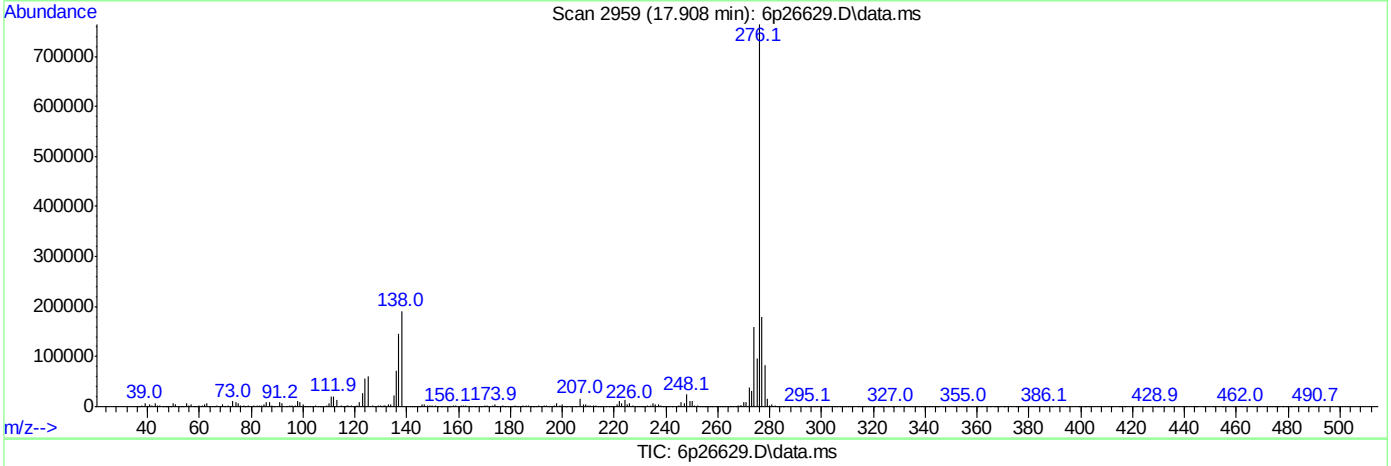
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 01:38:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26629.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.908min (-0.003) 42.45ppm

response 1525760

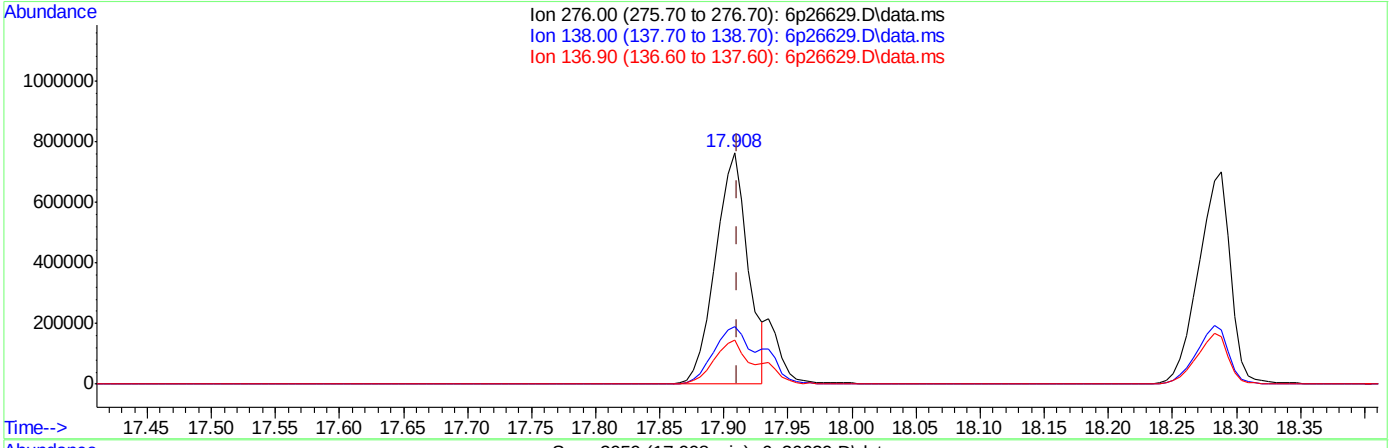
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	24.94
136.90	22.40	18.90
0.00	0.00	0.00

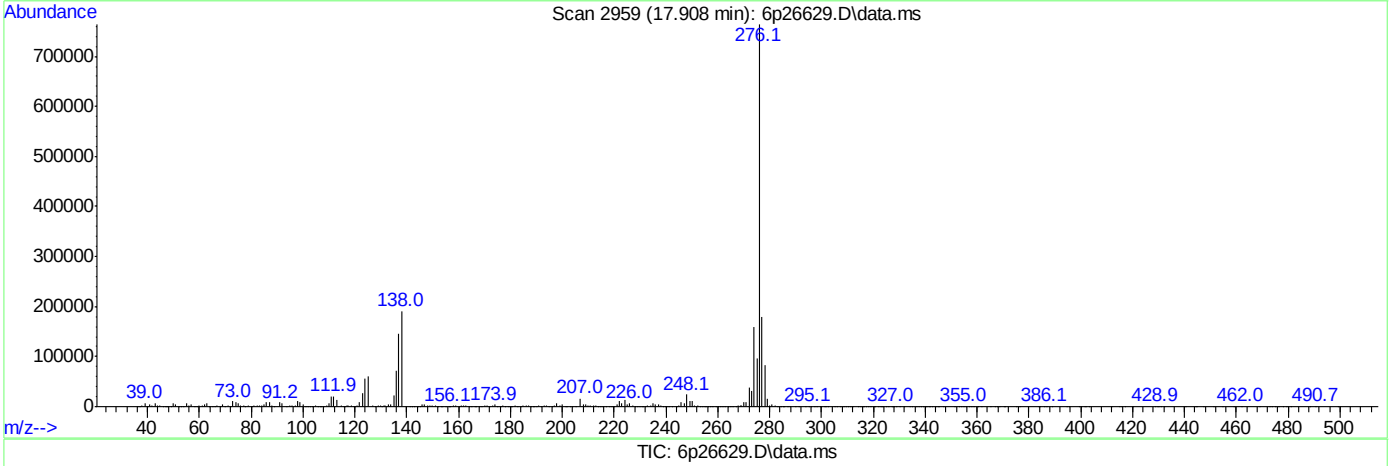
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26629.D
Acq On : 3 Jun 2016 1:18 am
Operator : seanb1
Sample : op94419-bs1
Misc : op94419,e6p1236,30.0
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 01:38:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26629.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.908min (-0.003) 37.25ppm m

response 1338997

Ion	Exp%	Act%
276.00	100	100
138.00	28.40	25.01
136.90	22.40	18.97
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61856.D
Acq On : 2 Jun 2016 12:36 am
Operator : juliusj
Sample : op94328a-bs12
Misc : op94328a,e3m2915,1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 09:30:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.139	150	961421	4.00	ppm	-0.08
14) Fluorene-d10	13.130	176	1277385	4.00	ppm	-0.09
21) Fluoranthene-d10	17.371	212	2122953	4.00	ppm	0.02
31) Benzo(a)pyrene-d12	21.991	264	1624553	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.167	112	3268799	26.59	ppm	-0.06
Spiked Amount 50.000			Recovery = 53.18%			
4) Phenol-d5	5.798	99	3756636	18.98	ppm	-0.05
Spiked Amount 50.000			Recovery = 37.96%			
7) Nitrobenzene-d5	7.268	82	4949061	29.62	ppm	-0.10
Spiked Amount 50.000			Recovery = 59.24%			
15) 2-Fluorobiphenyl	10.815	172	12070285	38.21	ppm	-0.09
Spiked Amount 50.000			Recovery = 76.42%			
20) 2,4,6-Tribromophenol	13.695	330	1174827	37.87	ppm	-0.09
Spiked Amount 50.000			Recovery = 75.74%			
28) Terphenyl-d14	18.206	244	12546304	42.33	ppm	0.04
Spiked Amount 50.000			Recovery = 84.66%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	19101	0.35	ppm #	38
5) Phenol	5.811	94	594865	2.87	ppm #	86
6) bis(2-Chloroethyl)ether	5.847	93	101603	0.68	ppm	86
8) Nitrobenzene	7.306	77	125999	0.73	ppm	92
9) Naphthalene	8.662	128	294509	0.54	ppm	90
10) Hexachlorobutadiene	8.925	225	34492	0.41	ppm	97
11) 2-Methylnaphthalene	10.016	141	160530	0.57	ppm #	54
13) Hexachlorocyclopentadiene	10.344	237	3746	0.27	ppm	99
16) Acenaphthylene	11.789	152	314380	0.77	ppm	99
17) Acenaphthene	12.145	153	222174	0.82	ppm	95
18) 4,6-dinitro-2-methylph...	13.412	198	149119	4.38	ppm	81
19) Fluorene	13.186	166	266822	0.81	ppm	82
22) Hexachlorobenzene	14.280	284	55809	0.59	ppm	99
23) Pentachlorophenol	14.743	266	156856	4.16	ppm	95
24) Phenanthrene	15.099	178	393610	0.80	ppm	95
25) Anthracene	15.207	178	362121	0.80	ppm	89
26) Fluoranthene	17.402	202	453782	0.75	ppm	98
27) Pyrene	17.788	202	466254	0.86	ppm	98
29) Benzo[a]anthracene	19.905	228	365325	0.76	ppm	98
30) Chrysene	19.951	228	382060	0.77	ppm	99
32) Benzo[b]fluoranthene	21.574	252	304664	0.61	ppm	95
33) Benzo[k]fluoranthene	21.605	252	297372	0.67	ppm	87
34) Benzo[a]pyrene	22.022	252	270578	0.60	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.468	276	235813	0.44	ppm	97
36) Dibenz[a,h]anthracene	23.506	278	200690	0.47	ppm	100
37) Benzo[g,h,i]perylene	23.807	276	195098	0.43	ppm	98

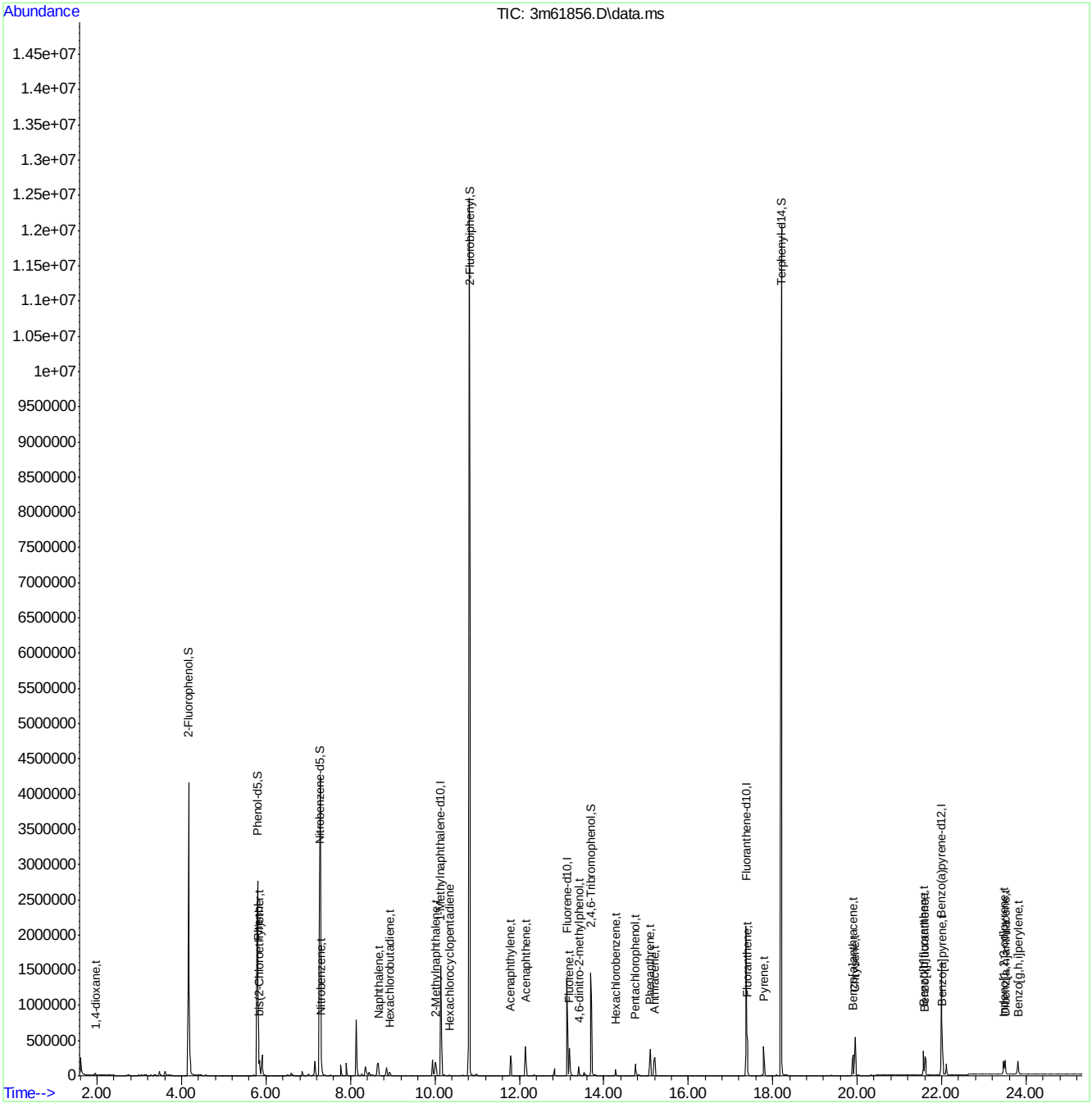
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61856.D
Acq On : 2 Jun 2016 12:36 am
Operator : juliusj
Sample : op94328a-bs12
Misc : op94328a,e3m2915,1000
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 02 09:30:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62047.D
Acq On : 7 Jun 2016 11:58 pm
Operator : ashleyd
Sample : op94328a-bs12
Misc : op94328a,e3m2924,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 08 08:39:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.159	150	567910	4.00	ppm	0.04
14) Fluorene-d10	13.168	176	855474	4.00	ppm	0.06
21) Fluoranthene-d10	17.402	212	1325642	4.00	ppm	0.05
31) Benzo(a)pyrene-d12	22.037	264	1032353	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.198	112	1897614	26.13	ppm	0.01
Spiked Amount 50.000			Recovery = 52.26%			
4) Phenol-d5	5.823	99	2255312	19.29	ppm	0.03
Spiked Amount 50.000			Recovery = 38.58%			
7) Nitrobenzene-d5	7.306	82	3107880	31.49	ppm	0.00
Spiked Amount 50.000			Recovery = 62.98%			
15) 2-Fluorobiphenyl	10.846	172	7511495	35.51	ppm	0.03
Spiked Amount 50.000			Recovery = 71.02%			
20) 2,4,6-Tribromophenol	13.733	330	769580	37.04	ppm	0.06
Spiked Amount 50.000			Recovery = 74.08%			
28) Terphenyl-d14	18.221	244	7276767	39.32	ppm	0.05
Spiked Amount 50.000			Recovery = 78.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	12688	0.39	ppm	93
5) Phenol	5.847	94	358307	2.93	ppm #	83
6) bis(2-Chloroethyl)ether	5.871	93	71216	0.81	ppm	86
8) Nitrobenzene	7.325	77	71735	0.70	ppm	98
9) Naphthalene	8.681	128	180839	0.56	ppm	93
10) Hexachlorobutadiene	8.944	225	20776	0.42	ppm	98
11) 2-Methylnaphthalene	10.057	141	99428	0.59	ppm	80
13) Hexachlorocyclopentadiene	10.241	237	178	0.20	ppm #	43
16) Acenaphthylene	11.820	152	187425	0.68	ppm	95
17) Acenaphthene	12.176	153	135482	0.75	ppm	84
18) 4,6-dinitro-2-methylph...	13.450	198	112821	4.82	ppm	95
19) Fluorene	13.224	166	157621	0.71	ppm	97
22) Hexachlorobenzene	14.311	284	33481	0.57	ppm	93
23) Pentachlorophenol	14.790	266	76730	3.38	ppm	98
24) Phenanthrene	15.130	178	235476	0.76	ppm	95
25) Anthracene	15.238	178	224479	0.80	ppm	91
26) Fluoranthene	17.433	202	281912	0.75	ppm	98
27) Pyrene	17.835	202	278443	0.82	ppm	87
29) Benzo[a]anthracene	19.936	228	226698	0.76	ppm	96
30) Chrysene	19.998	228	221674	0.72	ppm	87
32) Benzo[b]fluoranthene	21.605	252	206713	0.65	ppm	94
33) Benzo[k]fluoranthene	21.651	252	171523	0.61	ppm	96
34) Benzo[a]pyrene	22.068	252	178128	0.62	ppm	91
35) Indeno[1,2,3-cd]pyrene	23.525	276	154350	0.45	ppm	92
36) Dibenz[a,h]anthracene	23.562	278	136234	0.51	ppm	84
37) Benzo[g,h,i]perylene	23.863	276	128052	0.44	ppm	98

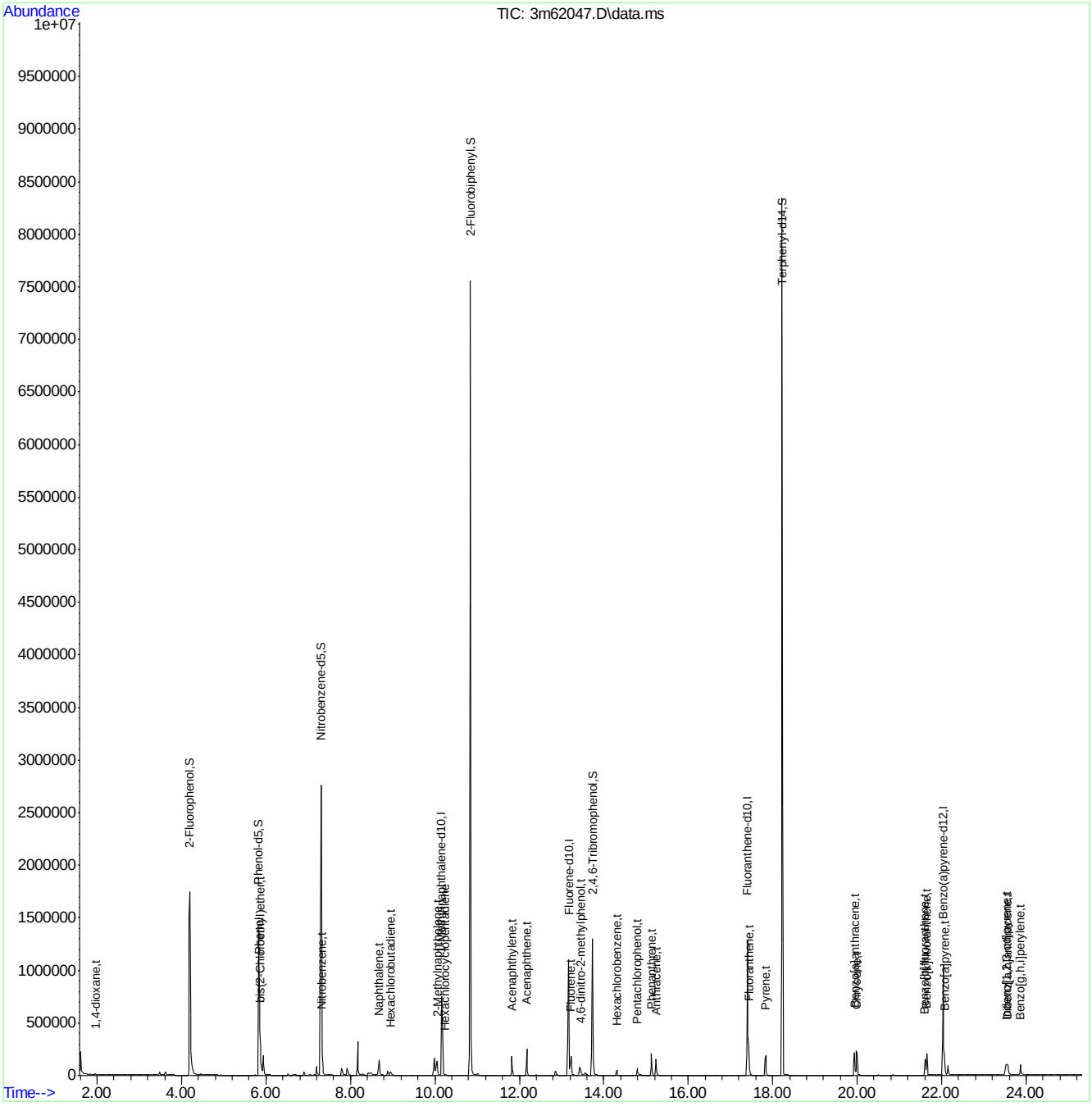
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62047.D
Acq On : 7 Jun 2016 11:58 pm
Operator : ashleyd
Sample : op94328a-bs12
Misc : op94328a,e3m2924,1000
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 08 08:39:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62167.D
Acq On : 11 Jun 2016 7:38 am
Operator : juliusj
Sample : op94419a-bs12
Misc : op94419a,e3m2930,30.0
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 13 10:41:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

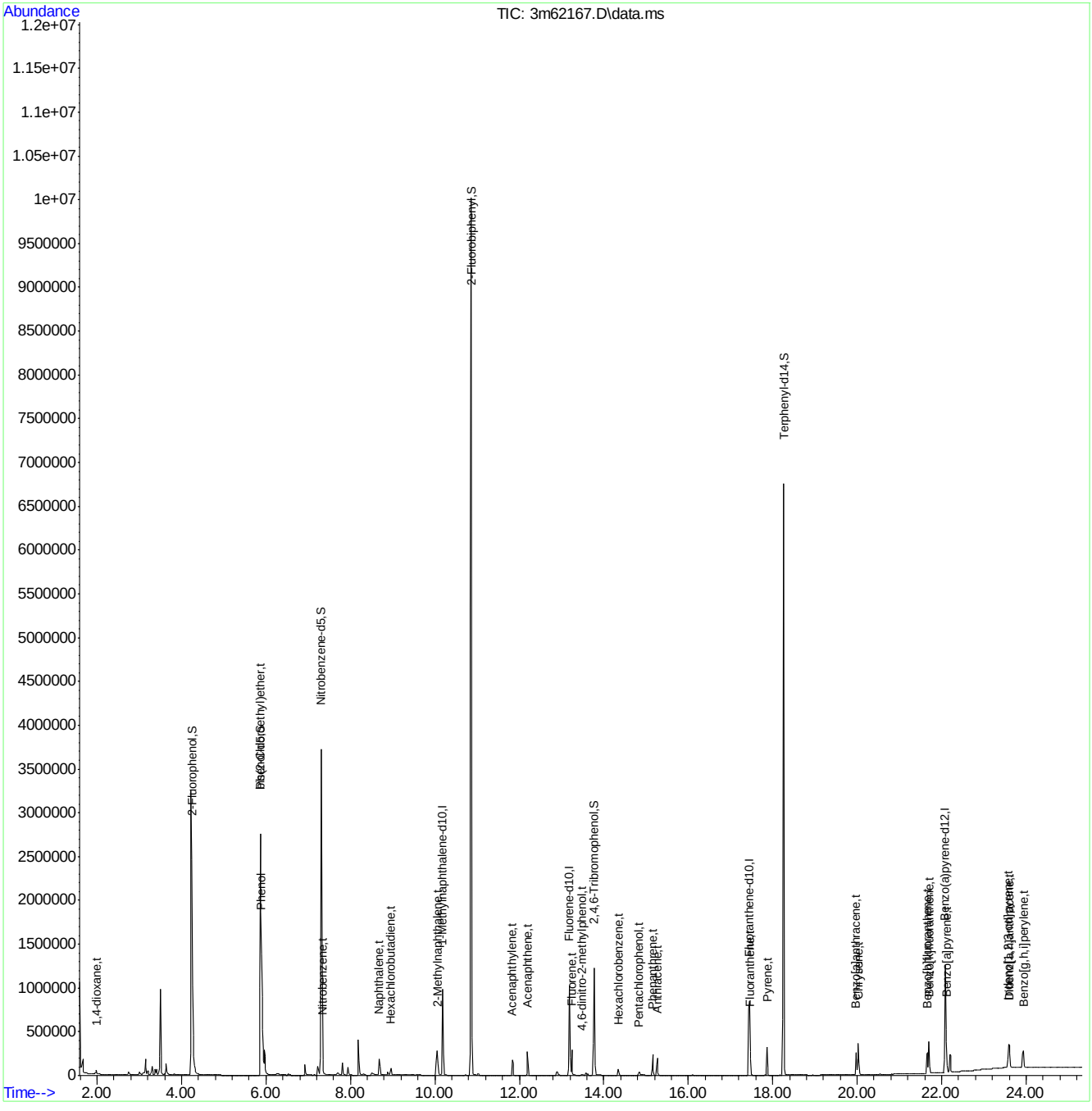
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	580691	4.00	ppm	0.06
14) Fluorene-d10	13.186	176	755479	4.00	ppm	0.08
21) Fluoranthene-d10	17.448	212	1217487	4.00	ppm	0.09
31) Benzo(a)pyrene-d12	22.084	264	1170004	4.00	ppm	0.11
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3489347	46.99	ppm	0.06
Spiked Amount 50.000			Recovery = 93.98%			
4) Phenol-d5	5.871	99	4822675	40.34	ppm	0.08
Spiked Amount 50.000			Recovery = 80.68%			
7) Nitrobenzene-d5	7.306	82	4038638	40.03	ppm	0.00
Spiked Amount 50.000			Recovery = 80.06%			
15) 2-Fluorobiphenyl	10.862	172	8840730	47.32	ppm	0.05
Spiked Amount 50.000			Recovery = 94.64%			
20) 2,4,6-Tribromophenol	13.770	330	786478	42.86	ppm	0.10
Spiked Amount 50.000			Recovery = 85.72%			
28) Terphenyl-d14	18.267	244	8505239	50.04	ppm	0.10
Spiked Amount 50.000			Recovery = 100.08%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.989	88	26976	0.82	ppm #	15
5) Phenol	5.895	94	681367	5.44	ppm #	57
6) bis(2-Chloroethyl)ether	5.871	93	109324	1.22	ppm #	66
8) Nitrobenzene	7.344	77	83197	0.80	ppm	60
9) Naphthalene	8.681	128	256669	0.78	ppm	98
10) Hexachlorobutadiene	8.963	225	44113	0.86	ppm	72
11) 2-Methylnaphthalene	10.057	141	177103	1.03	ppm #	49
16) Acenaphthylene	11.836	152	232534	0.96	ppm	99
17) Acenaphthene	12.191	153	161082	1.01	ppm	97
18) 4,6-dinitro-2-methylph...	13.488	198	11903	1.41	ppm	69
19) Fluorene	13.243	166	187505	0.96	ppm	92
22) Hexachlorobenzene	14.341	284	42204	0.78	ppm	91
23) Pentachlorophenol	14.836	266	67141	3.25	ppm	91
24) Phenanthrene	15.161	178	256745	0.90	ppm	94
25) Anthracene	15.269	178	245390	0.95	ppm	91
26) Fluoranthene	17.464	202	298639	0.86	ppm	95
27) Pyrene	17.866	202	318780	1.03	ppm	94
29) Benzo[a]anthracene	19.967	228	313720	1.14	ppm	84
30) Chrysene	20.029	228	309720	1.09	ppm	100
32) Benzo[b]fluoranthene	21.666	252	333879	0.92	ppm	87
33) Benzo[k]fluoranthene	21.697	252	274679	0.86	ppm	96
34) Benzo[a]pyrene	22.115	252	294874	0.91	ppm	96
35) Indeno[1,2,3-cd]pyrene	23.581	276	343144	0.89	ppm	92
36) Dibenz[a,h]anthracene	23.600	278	281160	0.92	ppm	98
37) Benzo[g,h,i]perylene	23.938	276	276852	0.84	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62167.D
Acq On : 11 Jun 2016 7:38 am
Operator : juliusj
Sample : op94419a-bs12
Misc : op94419a,e3m2930,30.0
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 13 10:41:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



M3M2887SIM.M Mon Jun 13 10:41:26 2016 RPT1 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 13:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 08:17:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.761	152	397502	40.00	ppm	0.00
24) Naphthalene-d8	5.874	136	1595092	40.00	ppm	0.00
47) Acenaphthene-d10	7.965	164	801893	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	1239304	40.00	ppm	0.00
83) Chrysene-d12	14.351	240	1030707	40.00	ppm	0.00
92) Perylene-d12	16.469	264	890065	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.761	152	397502	40.00	ppm	0.00
104) Acenaphthene-d10a	7.965	164	801893	40.00	ppm	0.00
106) Phenanthrene-d10a	10.158	188	1239304	40.00	ppm	0.00
108) Chrysene-d12a	14.351	240	1030707	40.00	ppm	0.00
110) Naphthalene-d8a	5.874	136	1595092	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	414682	27.38	ppm	0.02
Spiked Amount 50.000			Recovery = 54.76%			
8) Phenol-d5	4.510	99	445169	22.45	ppm	0.02
Spiked Amount 50.000			Recovery = 44.90%			
25) Nitrobenzene-d5	5.221	82	715642	40.23	ppm	0.00
Spiked Amount 50.000			Recovery = 80.46%			
51) 2-Fluorobiphenyl	7.082	172	1113851	43.09	ppm	-0.01
Spiked Amount 50.000			Recovery = 86.18%			
73) 2,4,6-Tribromophenol	9.110	330	121231	39.04	ppm	0.02
Spiked Amount 50.000			Recovery = 78.08%			
85) Terphenyl-d14	12.715	244	884825	40.98	ppm	-0.02
Spiked Amount 50.000			Recovery = 81.96%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.354	88	159614	22.61	ppm	99
3) Pyridine	2.670	79	349023	19.53	ppm	91
4) N-Nitrosodimethylamine	2.638	74	284068	26.62	ppm	85
6) Indene	4.964	116	1069530	39.55	ppm	99
7) Cumene	4.157	105	1453785	37.89	ppm	98
9) Phenol	4.520	94	548445	25.79	ppm	66
10) Aniline	4.515	93	731253	30.32	ppm	88
11) bis(2-Chloroethyl)ether	4.563	93	582861	38.57	ppm	99
12) 2-Chlorophenol	4.611	128	554808	35.99	ppm	99
13) Decane	4.622	43	663903	33.58	ppm	99
14) 1,3-Dichlorobenzene	4.718	146	531743	32.95	ppm	99
15) 1,4-Dichlorobenzene	4.777	146	561517	34.34	ppm	98
16) Benzyl alcohol	4.879	108	369210	35.05	ppm	89
17) 1,2-Dichlorobenzene	4.895	146	525297	33.92	ppm	99
18) Acetophenone	5.087	105	926821	41.53	ppm	98
19) 2-Methylphenol	4.980	108	515913	35.16	ppm	91
20) 2,2'-oxybis(1-Chloropr...	4.975	121	180455	33.37	ppm #	75
21) 3&4-Methylphenol	5.103	108	517147	33.41	ppm	95
22) n-Nitroso-di-n-propyla...	5.087	70	503294	37.81	ppm	99
23) Hexachloroethane	5.168	201	161918	33.23	ppm	96
26) Nitrobenzene	5.237	77	739775	39.82	ppm	98
27) Quinoline	6.253	129	1114000	37.45	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 08:17:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.440	82	1295068	41.08	ppm		98
29) 2-Nitrophenol	5.515	139	307258	39.16	ppm		93
30) 2,4-Dimethylphenol	5.558	107	641579	44.03	ppm		95
31) Benzoic acid	5.686	105	345011	37.74	ppm		95
32) bis(2-Chloroethoxy)met...	5.633	93	653568	36.69	ppm		98
33) 2,4-Dichlorophenol	5.751	162	435332	38.89	ppm		95
34) 2,6-Dichlorophenol	5.965	162	425458	39.52	ppm		97
36) 1,2,4-Trichlorobenzene	5.815	180	401096	34.06	ppm		97
38) Naphthalene	5.895	128	1751650	38.92	ppm		93
39) 4-Chloroaniline	5.959	127	439133	23.92	ppm		97
40) 2,3-Dichloroaniline	6.986	161	492972	35.52	ppm		98
41) Caprolactam	6.376	55	141906m	18.82	ppm		
42) Hexachlorobutadiene	6.007	225	210271	34.97	ppm		100
43) 4-Chloro-3-methylphenol	6.494	107	567493	40.98	ppm		93
44) 2-Methylnaphthalene	6.638	141	929539	38.48	ppm		96
45) 1-Methylnaphthalene	6.756	141	1142432	46.04	ppm		99
46) Dimethylnaphthalene	7.409	156	1025308	40.52	ppm		96
48) Hexachlorocyclopentadiene	6.815	237	259326	46.17	ppm		93
49) 2,4,6-Trichlorophenol	6.992	196	293862	45.12	ppm		98
50) 2,4,5-Trichlorophenol	7.045	196	287996	40.31	ppm		98
52) 2-Chloronaphthalene	7.232	162	903475	39.48	ppm		97
53) Biphenyl	7.211	154	1319600	42.92	ppm		99
54) 2-Nitroaniline	7.387	65	435689	52.26	ppm		92
55) Dimethylphthalate	7.628	163	1104290	41.36	ppm		99
56) Acenaphthylene	7.772	152	1513097	39.44	ppm		98
57) 2,6-Dinitrotoluene	7.714	165	251760	46.00	ppm		97
58) 3-Nitroaniline	7.944	138	193396	27.69	ppm		92
59) Acenaphthene	8.013	153	1061128	43.86	ppm		99
60) 2,4-Dinitrophenol	8.099	184	289742	99.73	ppm		99
61) 4-Nitrophenol	8.243	109	150377	36.63	ppm	#	27
62) Dibenzofuran	8.259	168	1386267	43.08	ppm		93
63) 2,4-Dinitrotoluene	8.275	165	337054	45.86	ppm		82
64) 2,3,4,6-Tetrachlorophenol	8.452	232	220979	43.63	ppm		97
65) Diethylphthalate	8.628	149	1125633	41.40	ppm		98
66) Fluorene	8.751	166	1151171	42.73	ppm		100
67) 4-Chlorophenyl-phenyle...	8.767	204	484645	40.01	ppm		93
68) 4-Nitroaniline	8.826	138	252860	34.56	ppm		98
70) 4,6-Dinitro-2-methylph...	8.864	198	188644	49.68	ppm		91
71) n-Nitrosodiphenylamine	8.954	169	784711	45.33	ppm		98
72) 1,2-Diphenylhydrazine	8.997	77	1417284	45.52	ppm		97
74) 4-Bromophenyl-phenylether	9.495	248	255816	41.04	ppm		94
75) Hexachlorobenzene	9.559	284	249242	36.62	ppm		78
76) Pentachlorophenol	9.890	266	157316	40.05	ppm		98
77) Phenanthrene	10.195	178	1492516	41.53	ppm		99
78) Anthracene	10.270	178	1471881	41.34	ppm		98
79) Carbazole	10.559	167	1414995	42.21	ppm		100
80) Di-n-butylphthalate	11.163	149	1835848	43.53	ppm		99
81) Fluoranthene	12.057	202	1508625	39.53	ppm		98
82) Octadecane	10.072	57	887181	47.86	ppm		99
84) Pyrene	12.410	202	1581859	45.24	ppm		98

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 08:17:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86) Butylbenzylphthalate	13.549	149	745359	48.40	ppm		94
88) Benzo[a]anthracene	14.335	228	1237619	40.44	ppm		100
89) 3,3'-Dichlorobenzidine	14.346	252	438138	41.73	ppm		100
90) Chrysene	14.389	228	1156513	39.00	ppm		99
91) bis(2-Ethylhexyl)phtha...	14.496	149	1033358	46.72	ppm		99
93) Di-n-octylphthalate	15.490	149	1682467	49.94	ppm		99
94) Benzo[b]fluoranthene	15.945	252	1161412	41.26	ppm		99
95) Benzo[k]fluoranthene	15.988	252	1100912	40.45	ppm		98
96) Benzo[a]pyrene	16.389	252	984179	40.91	ppm		69
97) Indeno[1,2,3-cd]pyrene	17.855	276	965436m	39.49	ppm		
99) Dibenz[a,h]anthracene	17.887	278	986362	37.28	ppm		98
100) 7,12-Dimethylbenz(a)an...	15.940	256	378374	32.18	ppm		94
101) Benzo[g,h,i]perylene	18.229	276	976588	36.85	ppm		99
103) Benzaldehyde	4.435	105	576307	48.13	ppm		88
105) 1,2,4,5-Tetrachloroben...	6.836	216	436183	43.88	ppm		98
107) Atrazine	9.816	215	140821	45.49	ppm		85
109) benzidine	12.164	184	1570	4.55	ppm	#	8

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

7.4.1

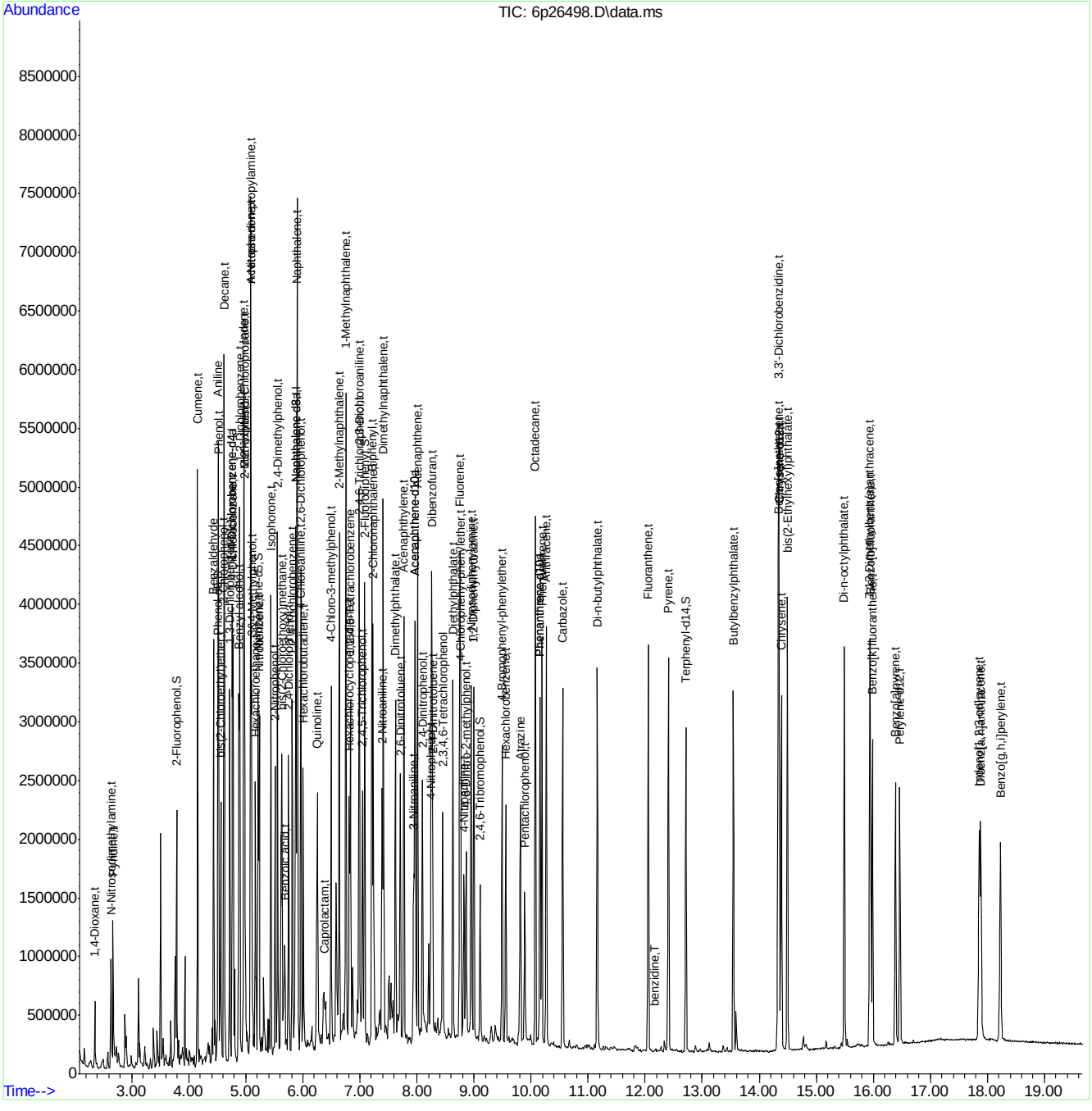
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 08:17:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

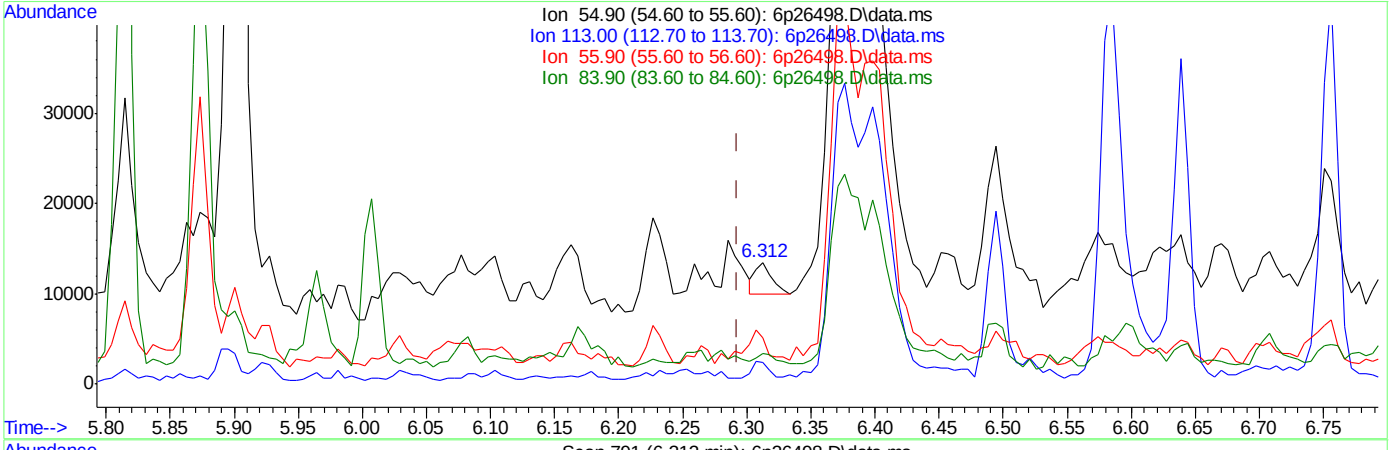
Sample Number:	OP94328-MS	**Method:**	SW846 8270D
Lab FileID:	6P26498.D	**Analyst approved:**	06/01/16 08:40 Arielle Cocozza
Injection Time:	05/31/16 12:28	**Supervisor approved:**	06/06/16 13:22 Kristi Schollenberger

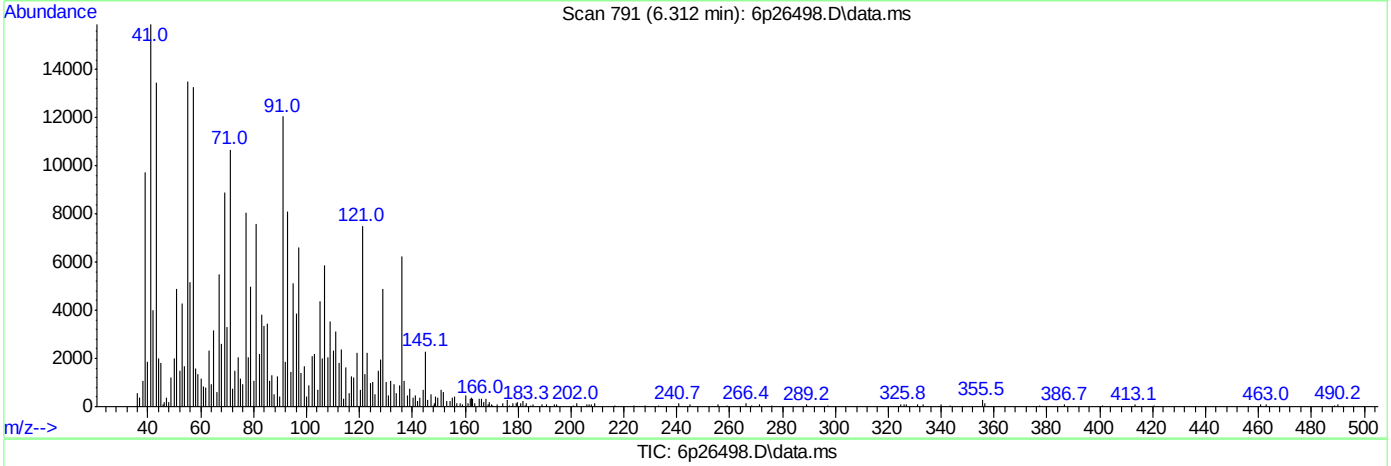
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.38	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.85	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:48:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26498.D\data.ms

(41) Caprolactam (t)

6.312min (+0.019) 0.41ppm

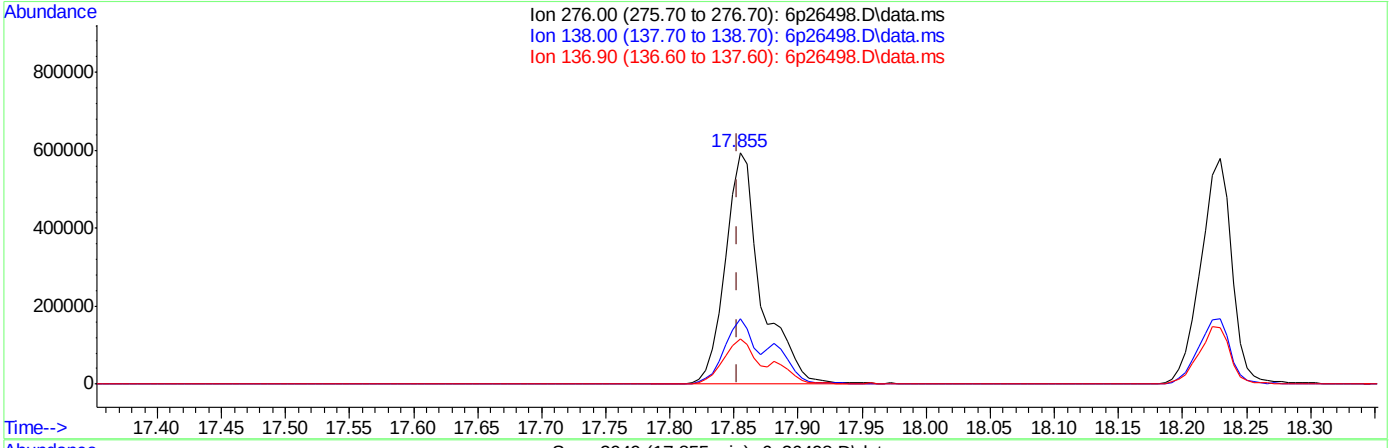
response 3107

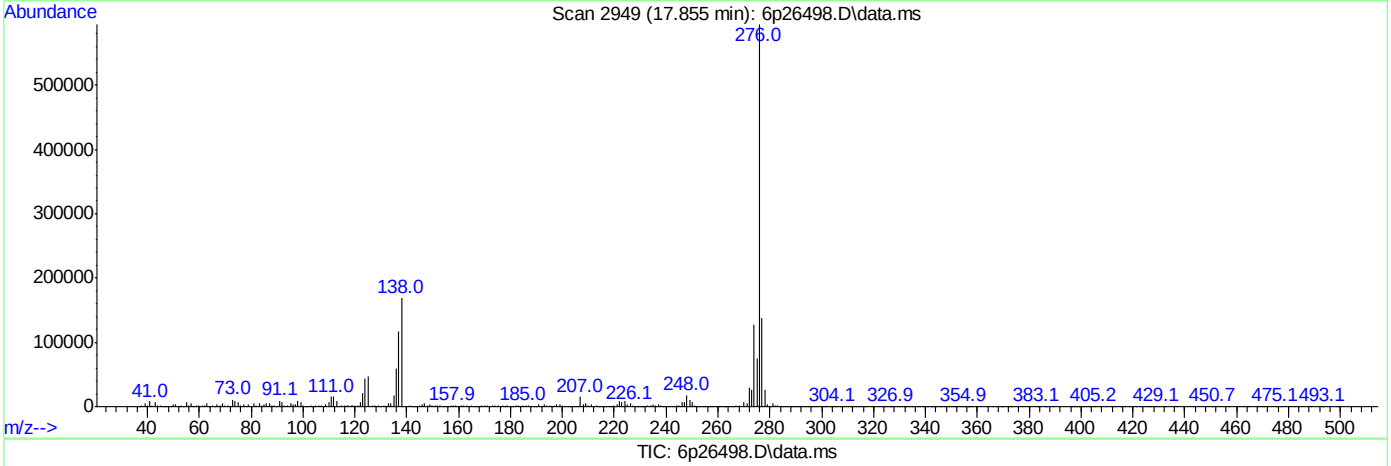
Ion	Exp%	Act%
54.90	100	100
113.00	68.30	46.86
55.90	78.30	60.57
83.90	43.10	35.16

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:48:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26498.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.855min (+0.002) 47.09ppm

response 1151222

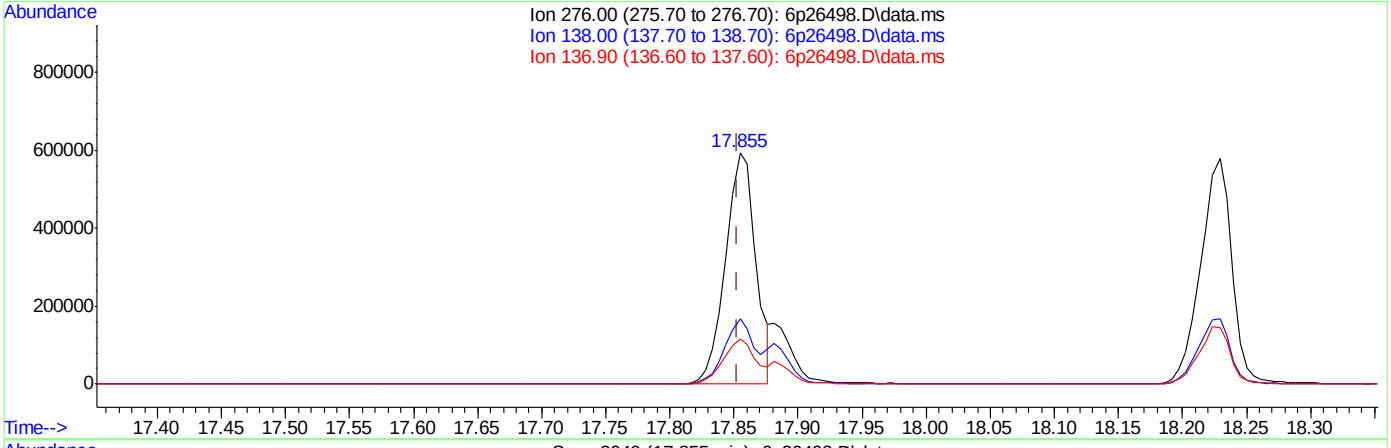
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	28.24
136.90	22.40	19.50
0.00	0.00	0.00

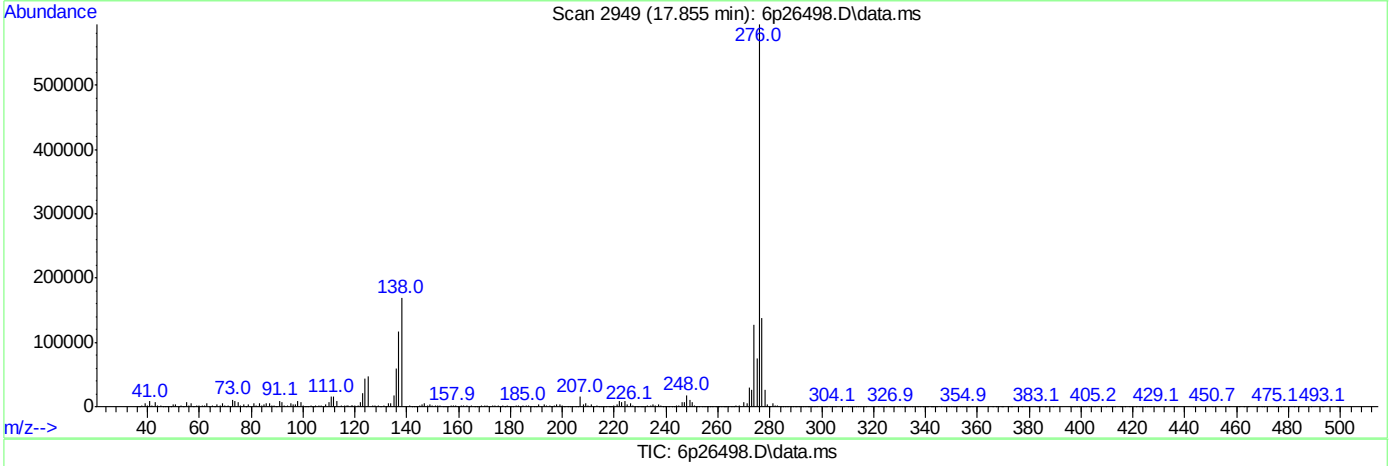
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:48:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26498.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.855min (+0.002) 39.49ppm m

response 965436

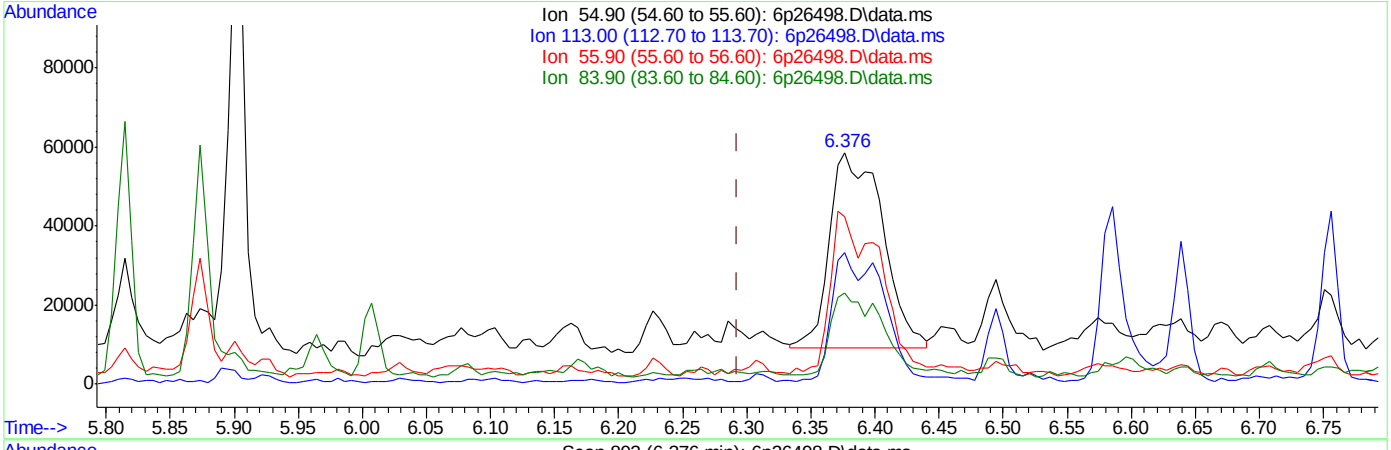
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	28.38
136.90	22.40	19.68
0.00	0.00	0.00

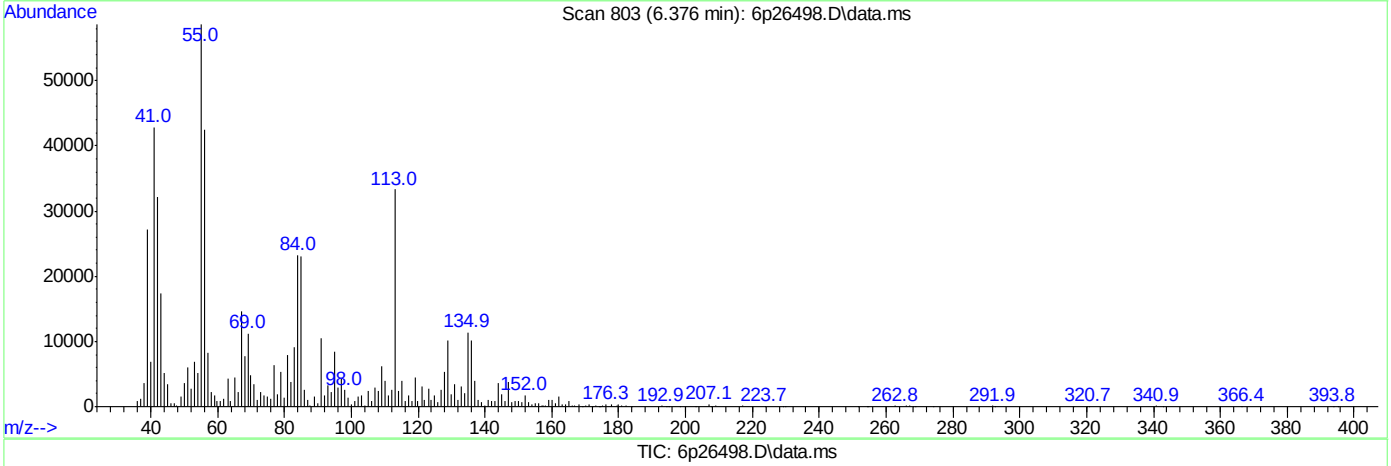
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26498.D
Acq On : 31 May 2016 12:28 pm
Operator : ariellec
Sample : op94328-ms
Misc : op94328,e6p1232,500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 08:17:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26498.D\data.ms

(41) Caprolactam (t)

6.376min (+0.084) 18.82ppm m

response 141906

Ion	Exp%	Act%
54.90	100	100
113.00	68.30	56.88
55.90	78.30	72.51
83.90	43.10	39.61

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 13:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 13:24:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.761	152	513105	40.00	ppm	0.00
24) Naphthalene-d8	5.874	136	2029734	40.00	ppm	0.00
47) Acenaphthene-d10	7.965	164	1032804	40.00	ppm	0.00
69) Phenanthrene-d10	10.158	188	1613081	40.00	ppm	0.00
83) Chrysene-d12	14.351	240	1382979	40.00	ppm	0.00
92) Perylene-d12	16.469	264	1211710	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.761	152	513105	40.00	ppm	0.00
104) Acenaphthene-d10a	7.965	164	1032804	40.00	ppm	0.00
106) Phenanthrene-d10a	10.158	188	1613081	40.00	ppm	0.00
108) Chrysene-d12a	14.351	240	1382979	40.00	ppm	0.00
110) Naphthalene-d8a	5.874	136	2029734	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.788	112	594688	30.42	ppm	0.02
Spiked Amount 50.000			Recovery	=	60.84%	
8) Phenol-d5	4.504	99	730857	28.55	ppm	0.02
Spiked Amount 50.000			Recovery	=	57.10%	
25) Nitrobenzene-d5	5.221	82	818139	36.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	72.30%	
51) 2-Fluorobiphenyl	7.082	172	1349665	40.54	ppm	-0.01
Spiked Amount 50.000			Recovery	=	81.08%	
73) 2,4,6-Tribromophenol	9.110	330	153452	37.96	ppm	0.02
Spiked Amount 50.000			Recovery	=	75.92%	
85) Terphenyl-d14	12.715	244	1203254	41.53	ppm	-0.02
Spiked Amount 50.000			Recovery	=	83.06%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.349	88	176736	19.40	ppm	94
3) Pyridine	2.729	79	45703m	1.98	ppm	
4) N-Nitrosodimethylamine	2.632	74	327240	23.75	ppm	82
6) Indene	4.964	116	1225070	35.10	ppm	100
7) Cumene	4.151	105	1588824	32.08	ppm	98
9) Phenol	4.515	94	826212	30.10	ppm	97
10) Aniline	4.515	93	246116	7.91	ppm #	1
11) bis(2-Chloroethyl)ether	4.563	93	653996	33.53	ppm	98
12) 2-Chlorophenol	4.611	128	664050	33.37	ppm	98
13) Decane	4.622	43	714033	27.98	ppm	99
14) 1,3-Dichlorobenzene	4.718	146	586568	28.16	ppm	99
15) 1,4-Dichlorobenzene	4.777	146	614430	29.11	ppm	99
16) Benzyl alcohol	4.879	108	441841	32.49	ppm	89
17) 1,2-Dichlorobenzene	4.895	146	586454	29.33	ppm	99
18) Acetophenone	5.087	105	1079758	37.48	ppm	97
19) 2-Methylphenol	4.980	108	652082	34.43	ppm	93
20) 2,2'-oxybis(1-Chloropr...	4.975	121	208345	29.84	ppm #	67
21) 3&4-Methylphenol	5.103	108	690732	34.57	ppm	95
22) n-Nitroso-di-n-propyla...	5.087	70	595381	34.65	ppm	97
23) Hexachloroethane	5.168	201	176475	28.05	ppm #	64
26) Nitrobenzene	5.237	77	864232	36.56	ppm	97
27) Quinoline	6.264	129	1156811	30.56	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 13:24:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.440	82	1553647	38.73	ppm		97
29) 2-Nitrophenol	5.515	139	363859	36.45	ppm		95
30) 2,4-Dimethylphenol	5.558	107	803881	43.35	ppm		96
31) Benzoic acid	5.702	105	578144	47.73	ppm		95
32) bis(2-Chloroethoxy)met...	5.633	93	769728	33.95	ppm		99
33) 2,4-Dichlorophenol	5.751	162	534121	37.50	ppm		97
34) 2,6-Dichlorophenol	5.965	162	511014	37.31	ppm		96
36) 1,2,4-Trichlorobenzene	5.815	180	466838	31.15	ppm		98
38) Naphthalene	5.895	128	2029092	35.43	ppm		93
39) 4-Chloroaniline	5.959	127	449235	19.23	ppm		98
40) 2,3-Dichloroaniline	6.986	161	591877	33.51	ppm		99
41) Caprolactam	6.392	55	183282m	19.10	ppm		
42) Hexachlorobutadiene	6.007	225	243838	31.87	ppm		97
43) 4-Chloro-3-methylphenol	6.494	107	723865	41.08	ppm		96
44) 2-Methylnaphthalene	6.638	141	1116763	36.33	ppm		96
45) 1-Methylnaphthalene	6.756	141	1358421	43.03	ppm		100
46) Dimethylnaphthalene	7.409	156	1276990	39.66	ppm		97
48) Hexachlorocyclopentadiene	6.815	237	323020	44.65	ppm		94
49) 2,4,6-Trichlorophenol	6.992	196	370723	44.20	ppm		97
50) 2,4,5-Trichlorophenol	7.045	196	368722	40.07	ppm		98
52) 2-Chloronaphthalene	7.232	162	1119596	37.98	ppm		98
53) Biphenyl	7.211	154	1632771	41.23	ppm		99
54) 2-Nitroaniline	7.387	65	569608	53.05	ppm		92
55) Dimethylphthalate	7.628	163	1404561	40.84	ppm		100
56) Acenaphthylene	7.772	152	1899138	38.43	ppm		99
57) 2,6-Dinitrotoluene	7.714	165	317270	45.01	ppm		93
58) 3-Nitroaniline	7.944	138	212505	23.62	ppm		93
59) Acenaphthene	8.013	153	1319149	42.33	ppm		99
60) 2,4-Dinitrophenol	8.099	184	390572	103.67	ppm		92
61) 4-Nitrophenol	8.243	109	236573	44.74	ppm	#	15
62) Dibenzofuran	8.259	168	1784789	43.07	ppm		93
63) 2,4-Dinitrotoluene	8.275	165	438222	46.30	ppm		84
64) 2,3,4,6-Tetrachlorophenol	8.452	232	290141	44.48	ppm		97
65) Diethylphthalate	8.628	149	1457740	41.63	ppm		99
66) Fluorene	8.751	166	1479512	42.64	ppm		100
67) 4-Chlorophenyl-phenyle...	8.767	204	614971	39.42	ppm		96
68) 4-Nitroaniline	8.826	138	315538	33.48	ppm		97
70) 4,6-Dinitro-2-methylph...	8.869	198	248116	50.14	ppm		88
71) n-Nitrosodiphenylamine	8.954	169	1018081	45.18	ppm		99
72) 1,2-Diphenylhydrazine	9.003	77	1838425	45.36	ppm		98
74) 4-Bromophenyl-phenylether	9.495	248	331299	40.84	ppm		93
75) Hexachlorobenzene	9.559	284	323057	36.46	ppm		78
76) Pentachlorophenol	9.890	266	211203	41.31	ppm		97
77) Phenanthrene	10.195	178	1930689	41.28	ppm		99
78) Anthracene	10.270	178	1903090	41.06	ppm		99
79) Carbazole	10.559	167	1846343	42.32	ppm		99
80) Di-n-butylphthalate	11.163	149	2392263	43.58	ppm		100
81) Fluoranthene	12.057	202	1983835	39.93	ppm		98
82) Octadecane	10.072	57	1203449	49.88	ppm		98
84) Pyrene	12.410	202	2028177	43.23	ppm		98

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 13:24:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86)	Butylbenzylphthalate	13.549	149	1006645	48.72	ppm	96
88)	Benzo[a]anthracene	14.335	228	1660717	40.45	ppm	100
89)	3,3'-Dichlorobenzidine	14.346	252	359266	25.50	ppm	98
90)	Chrysene	14.394	228	1569124	39.43	ppm	99
91)	bis(2-Ethylhexyl)phtha...	14.496	149	1355538	45.70	ppm	99
93)	Di-n-octylphthalate	15.491	149	2233239	48.70	ppm	98
94)	Benzo[b]fluoranthene	15.950	252	1537256	40.12	ppm	98
95)	Benzo[k]fluoranthene	15.988	252	1495084	40.35	ppm	98
96)	Benzo[a]pyrene	16.389	252	1333093	40.70	ppm	69
97)	Indeno[1,2,3-cd]pyrene	17.860	276	1339205m	40.24	ppm	
99)	Dibenz[a,h]anthracene	17.887	278	1329433	36.90	ppm	96
100)	7,12-Dimethylbenz(a)an...	15.945	256	531889	33.23	ppm	94
101)	Benzo[g,h,i]perylene	18.234	276	1302792	36.11	ppm	99
103)	Benzaldehyde	4.435	105	662401	42.86	ppm	90
105)	1,2,4,5-Tetrachloroben...	6.836	216	522222	40.79	ppm	99
107)	Atrazine	9.821	215	181017	44.93	ppm	87
109)	benzidine	12.260	184	1161	4.49	ppm	67

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

7.4.2

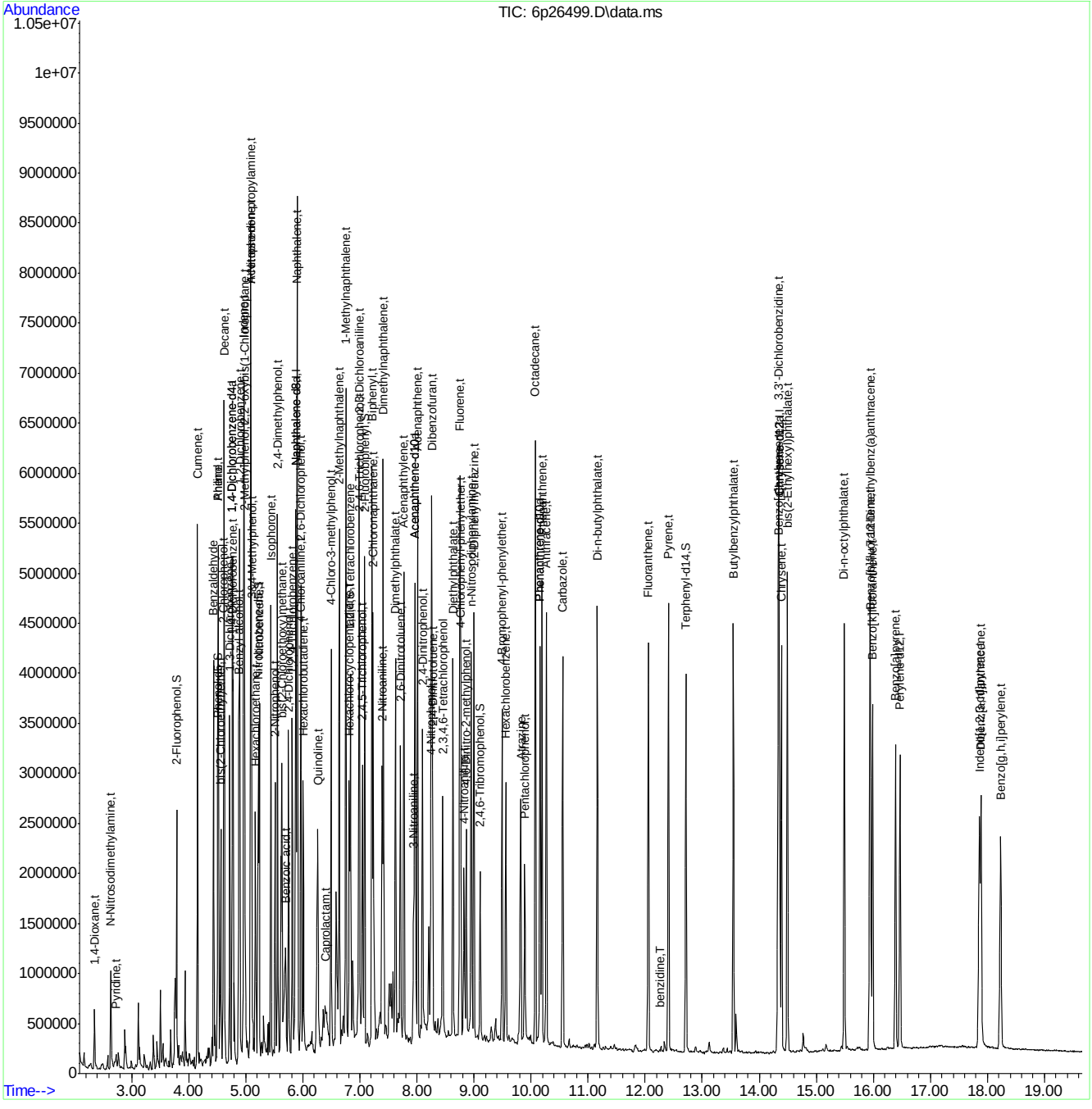
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 13:24:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



Manual Integration Approval Summary

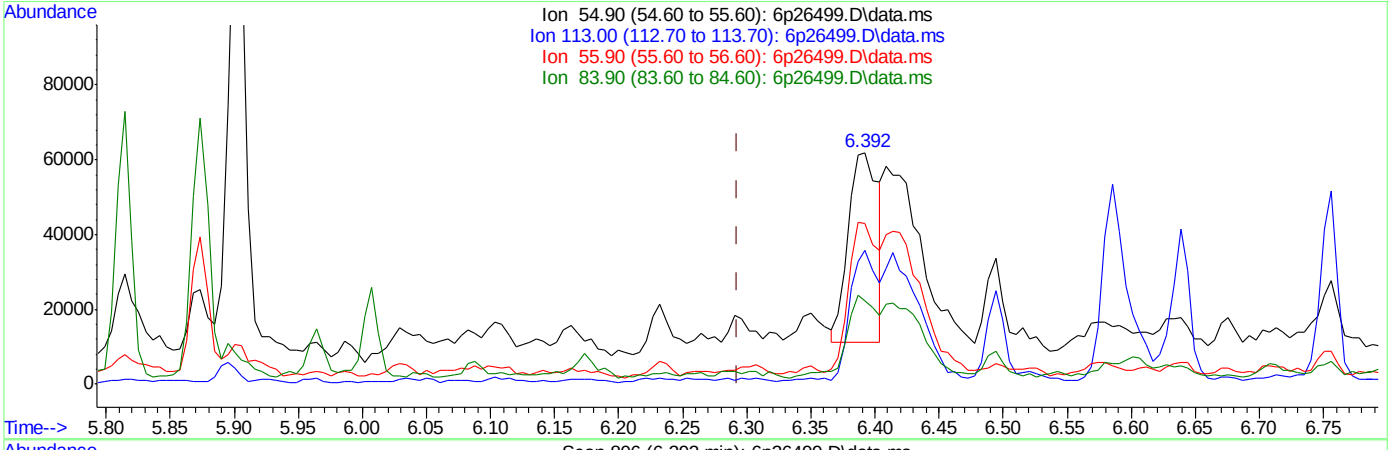
Sample Number:	OP94328-MSD	**Method:**	SW846 8270D
Lab FileID:	6P26499.D	**Analyst approved:**	06/06/16 13:25 Arielle Cocozza
Injection Time:	05/31/16 17:03	**Supervisor approved:**	06/06/16 13:27 Kristi Schollenberger

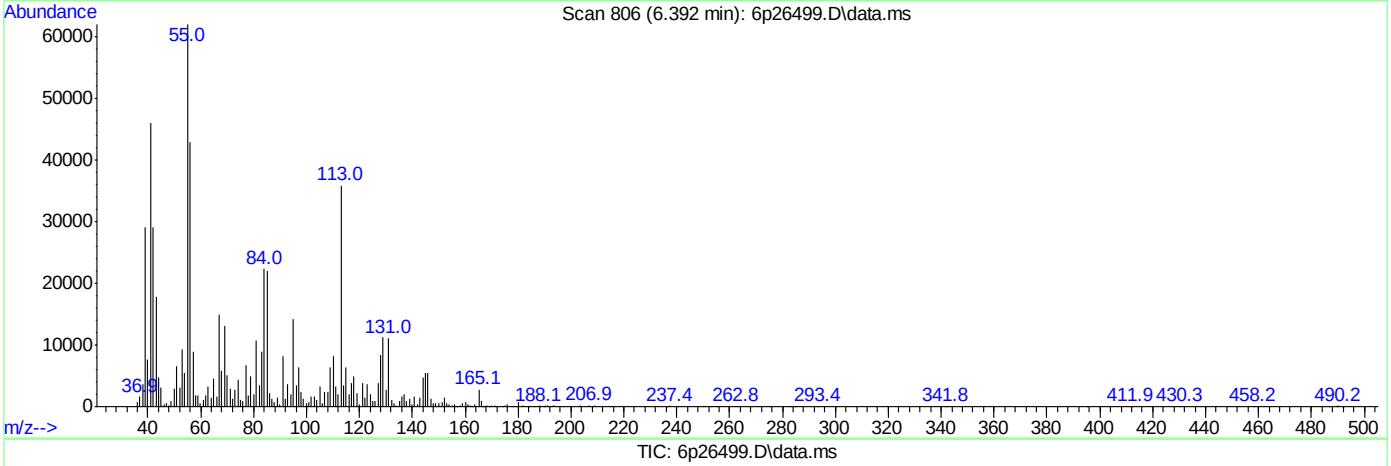
Parameter	CAS	Sig#	R.T. (min.)	Reason
Pyridine	110-86-1		2.73	Poor instrument integration
Caprolactam	105-60-2		6.39	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.86	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 17:23:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26499.D\data.ms

(41) Caprolactam (t)

6.392min (+0.100) 8.47ppm

response 81309

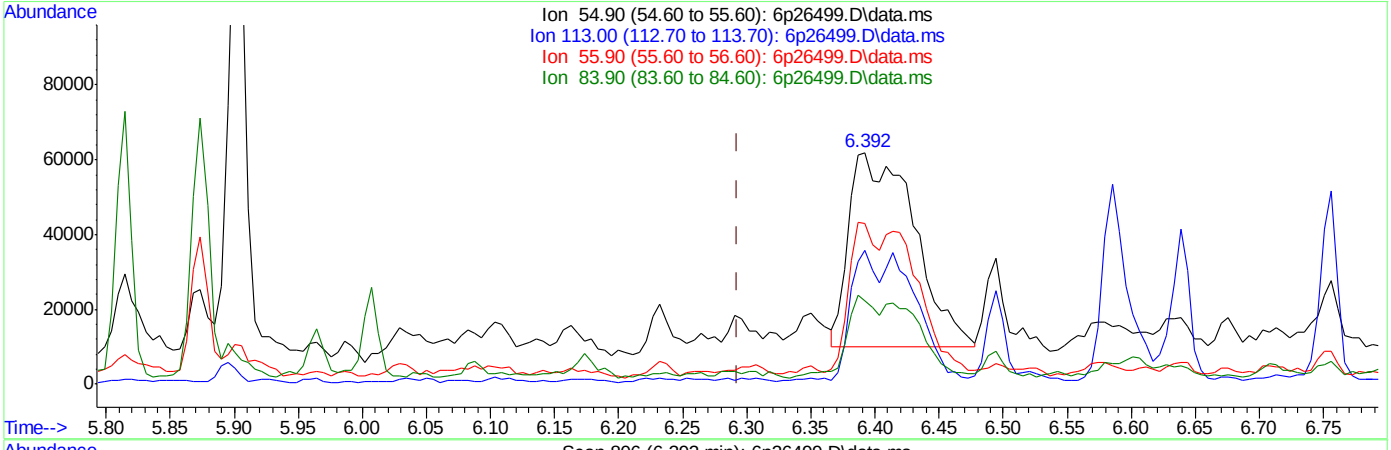
Ion	Exp%	Act%
54.90	100	100
113.00	68.30	78.58
55.90	78.30	82.83
83.90	43.10	41.14

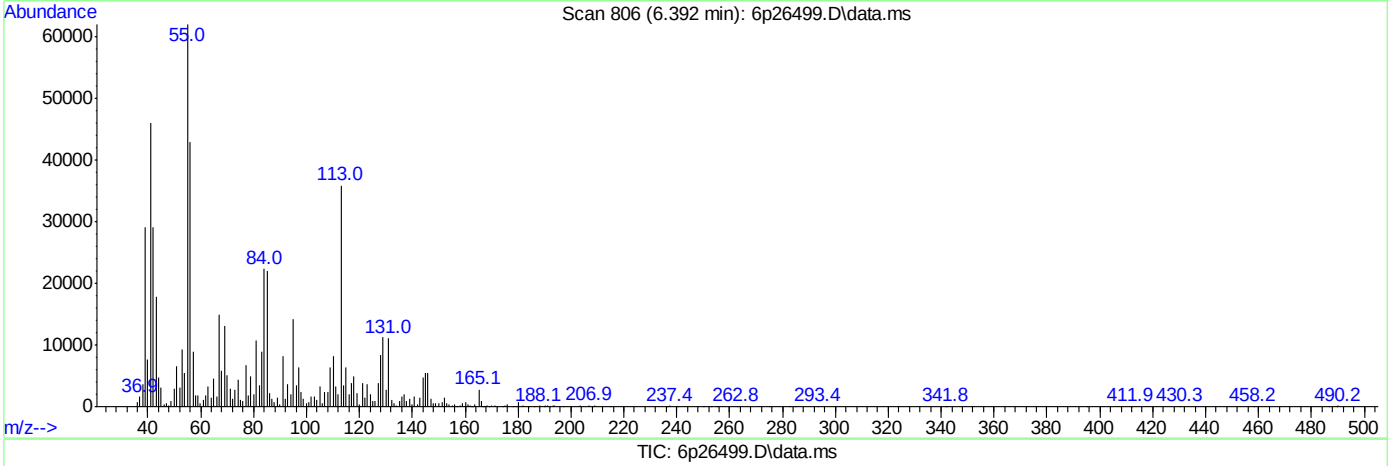
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 17:23:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26499.D\data.ms

(41) Caprolactam (t)

6.392min (+0.100) 19.10ppm m

response 183282

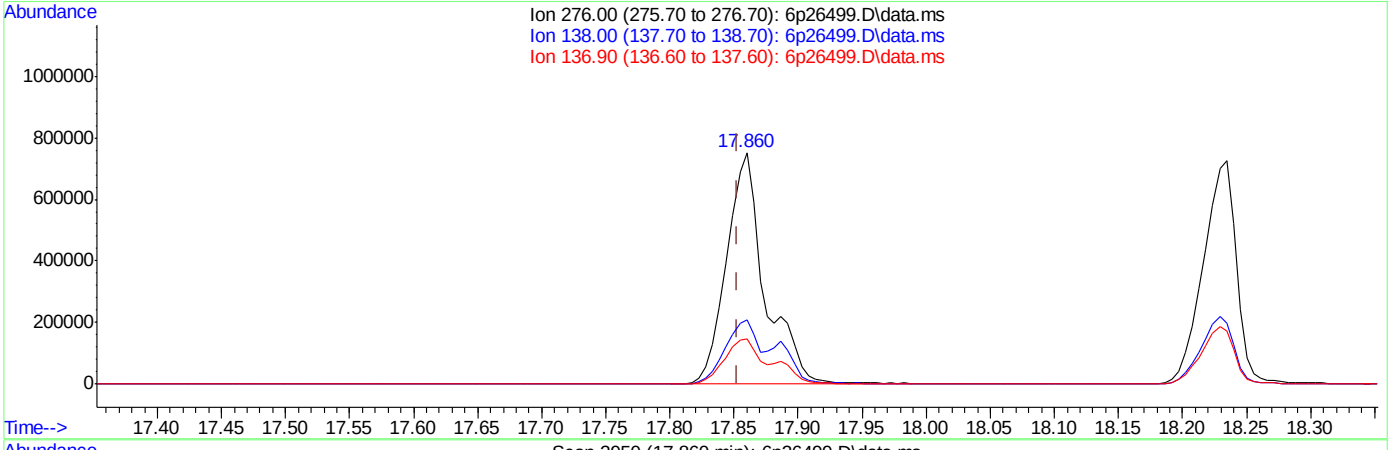
Ion	Exp%	Act%
54.90	100	100
113.00	68.30	57.88
55.90	78.30	69.19
83.90	43.10	35.94

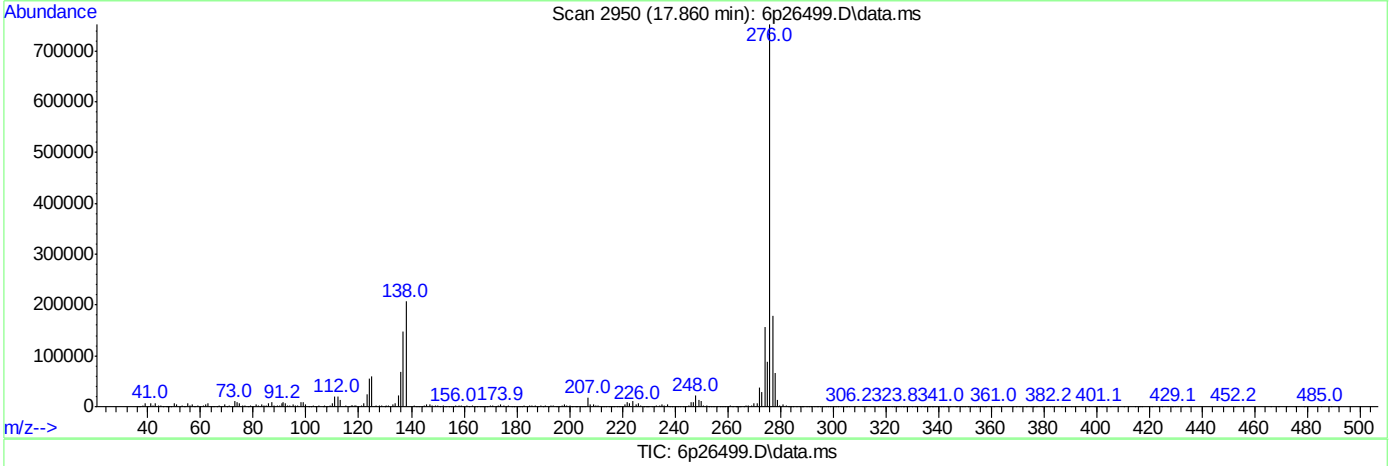
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 17:23:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26499.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.860min (+0.007) 47.03ppm

response 1565146

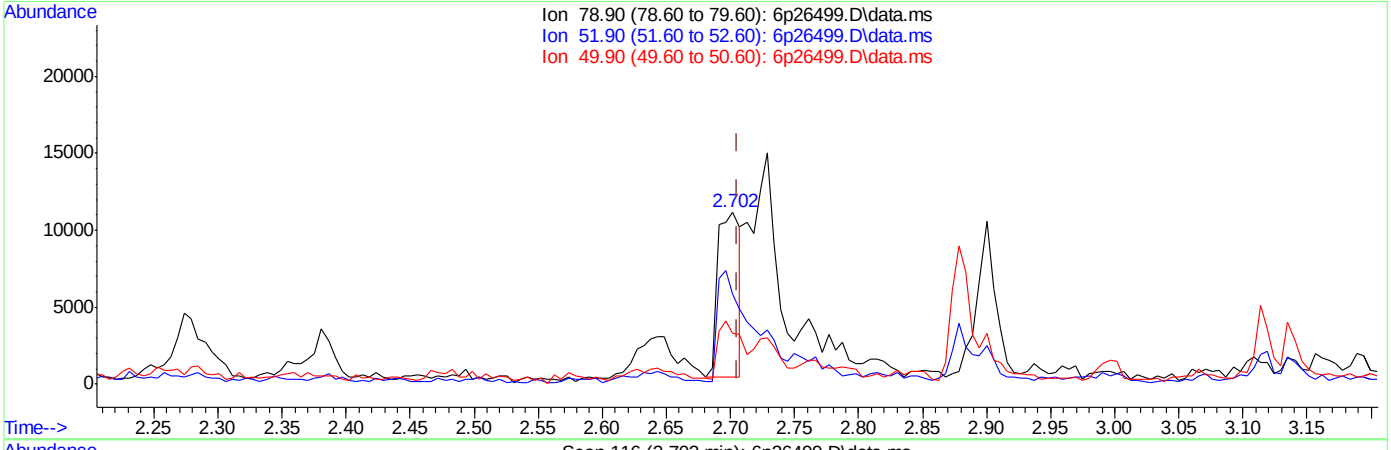
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	27.42
136.90	22.40	19.35
0.00	0.00	0.00

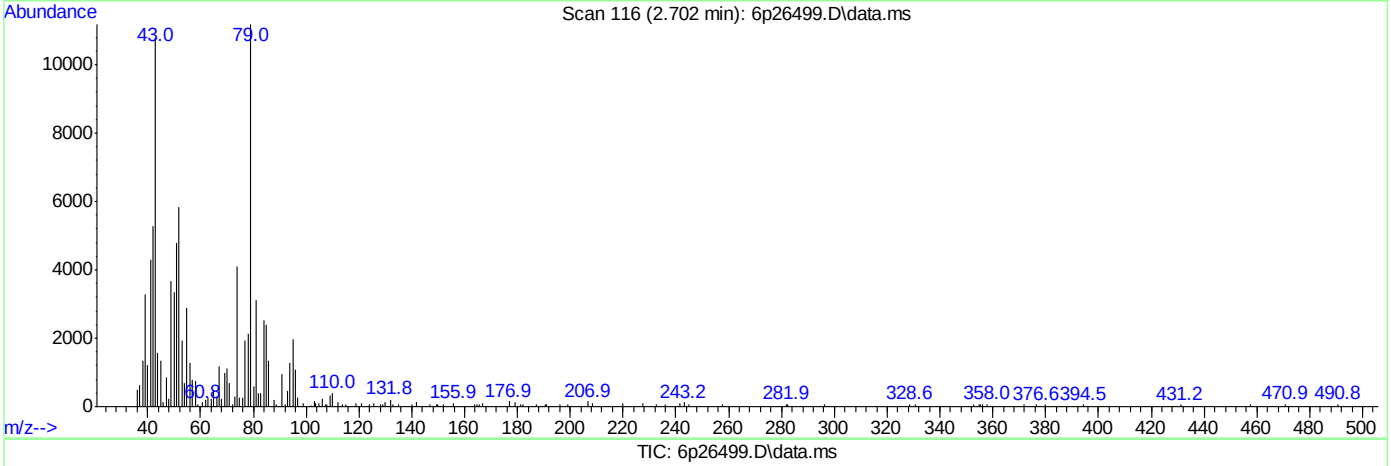
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 01 08:39:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26499.D\data.ms

(3) Pyridine (t)

2.702min (-0.004) 0.57ppm

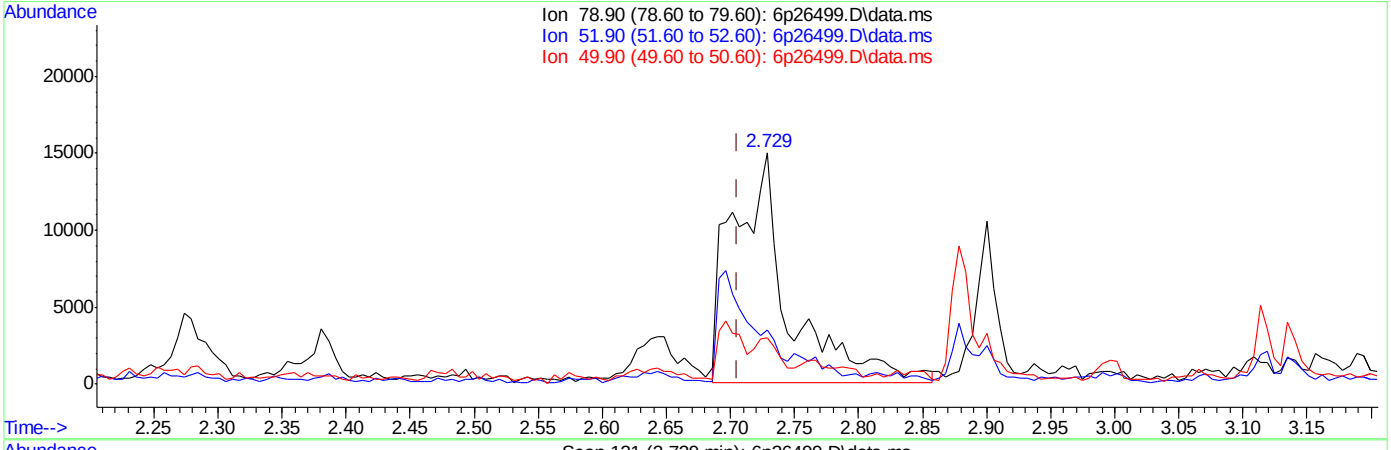
response 13206

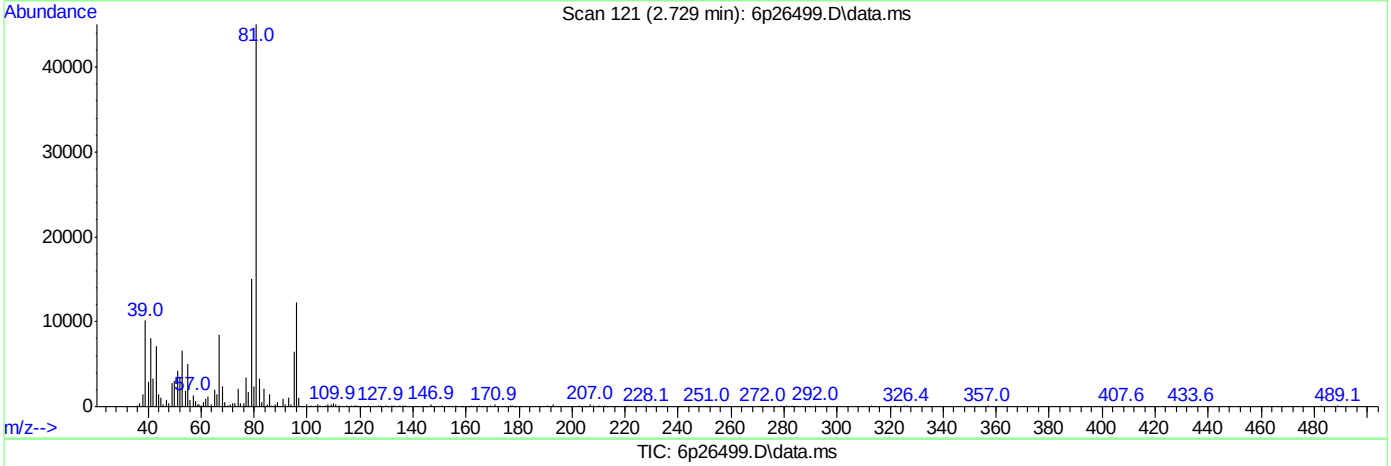
Ion	Exp%	Act%
78.90	100	100
51.90	71.00	56.22
49.90	29.40	26.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 01 08:39:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26499.D\data.ms

(3) Pyridine (t)

2.729min (+0.023) 1.98ppm m

response 45703

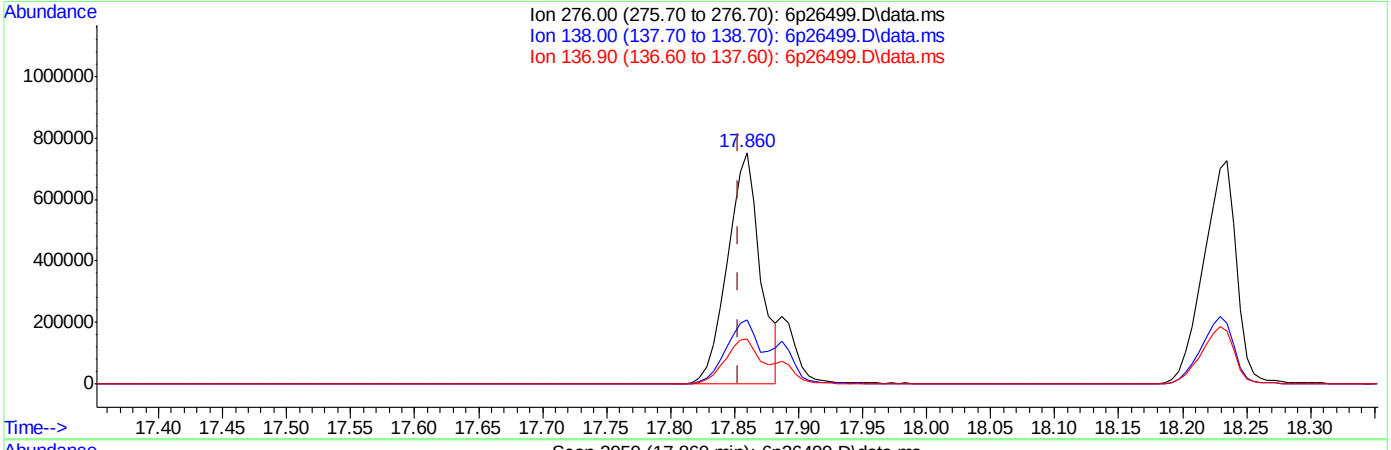
Ion	Exp%	Act%
78.90	100	100
51.90	71.00	23.21#
49.90	29.40	19.89
0.00	0.00	0.00

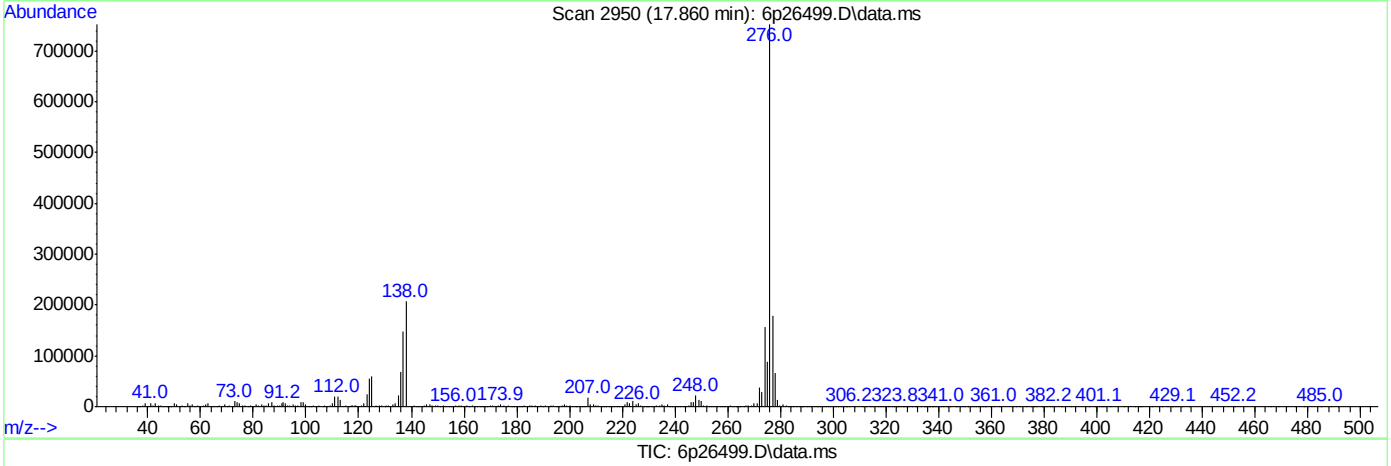
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26499.D
Acq On : 31 May 2016 5:03 pm
Operator : ariellec
Sample : op94328-msd
Misc : op94328,e6p1232,500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 01 08:42:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration





TIC: 6p26499.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.860min (+0.007) 40.24ppm m

response 1339205

Ion	Exp%	Act%
276.00	100	100
138.00	28.40	27.52
136.90	22.40	19.54
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/13/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:36:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.788	152	516004	40.00 ppm	0.00
24) Naphthalene-d8	5.900	136	2115339	40.00 ppm	-0.02
47) Acenaphthene-d10	7.997	164	1142627	40.00 ppm	0.00
69) Phenanthrene-d10	10.195	188	1744488	40.00 ppm	0.00
83) Chrysene-d12	14.394	240	1343963	40.00 ppm	-0.09
92) Perylene-d12	16.512	264	1143735	40.00 ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.788	152	516004	40.00 ppm	0.00
104) Acenaphthene-d10a	7.997	164	1142627	40.00 ppm	-0.02
106) Phenanthrene-d10a	10.195	188	1744488	40.00 ppm	-0.01
108) Chrysene-d12a	14.394	240	1343963	40.00 ppm	-0.01
110) Naphthalene-d8a	5.900	136	2115339	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.820	112	664727	33.81 ppm	0.02
Spiked Amount 50.000			Recovery	= 67.62%	
8) Phenol-d5	4.542	99	934929	36.32 ppm	0.02
Spiked Amount 50.000			Recovery	= 72.64%	
25) Nitrobenzene-d5	5.248	82	924124	39.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 78.36%	
51) 2-Fluorobiphenyl	7.109	172	1449192	39.34 ppm	0.00
Spiked Amount 50.000			Recovery	= 78.68%	
73) 2,4,6-Tribromophenol	9.152	330	157602	36.05 ppm	0.02
Spiked Amount 50.000			Recovery	= 72.10%	
85) Terphenyl-d14	12.752	244	1189378	42.24 ppm	-0.09
Spiked Amount 50.000			Recovery	= 84.48%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.376	88	152432	16.64 ppm	96
3) Pyridine	2.750	79	496545	21.41 ppm	85
4) N-Nitrosodimethylamine	2.664	74	400419m	28.90 ppm	
6) Indene	4.991	116	1277686	36.40 ppm	99
7) Cumene	4.178	105	1696561	34.06 ppm	98
9) Phenol	4.553	94	1156527	41.90 ppm	90
10) Aniline	4.547	93	641617	20.50 ppm	81
11) bis(2-Chloroethyl)ether	4.585	93	714625	36.43 ppm	96
12) 2-Chlorophenol	4.638	128	732079	36.58 ppm	93
13) Decane	4.643	43	957415	37.30 ppm	97
14) 1,3-Dichlorobenzene	4.740	146	678319	32.38 ppm	99
15) 1,4-Dichlorobenzene	4.799	146	726760	34.23 ppm	99
16) Benzyl alcohol	4.911	108	533165	38.99 ppm	83
17) 1,2-Dichlorobenzene	4.922	146	669222	33.29 ppm	95
18) Acetophenone	5.114	105	1119936	38.66 ppm	95
19) 2-Methylphenol	5.012	108	672104	35.28 ppm	87
20) 2,2'-oxybis(1-Chloropr...	4.996	121	224781	32.02 ppm	95
21) 3&4-Methylphenol	5.141	108	727808	36.22 ppm	95
22) n-Nitroso-di-n-propyla...	5.114	70	664688	38.47 ppm	95
23) Hexachloroethane	5.194	201	215032	33.99 ppm	89
26) Nitrobenzene	5.264	77	940446	38.17 ppm	95
27) Quinoline	6.285	129	1394837	35.36 ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:36:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.467	82	1668469	39.91	ppm		92
29) 2-Nitrophenol	5.542	139	345451	33.20	ppm		89
30) 2,4-Dimethylphenol	5.590	107	864755	44.75	ppm		94
31) Benzoic acid	5.751	105	722949	55.66	ppm		91
32) bis(2-Chloroethoxy)met...	5.660	93	825263	34.93	ppm		99
33) 2,4-Dichlorophenol	5.783	162	542958	36.58	ppm		94
34) 2,6-Dichlorophenol	5.997	162	536937	37.61	ppm		97
36) 1,2,4-Trichlorobenzene	5.842	180	535577	34.29	ppm		98
38) Naphthalene	5.922	128	2266181	37.97	ppm		92
39) 4-Chloroaniline	5.991	127	442052	18.16	ppm		93
40) 2,3-Dichloroaniline	7.013	161	596736	32.42	ppm		95
41) Caprolactam	6.441	55	416016m	41.60	ppm		
42) Hexachlorobutadiene	6.034	225	316290	39.66	ppm		99
43) 4-Chloro-3-methylphenol	6.537	107	816416	44.46	ppm		92
44) 2-Methylnaphthalene	6.665	141	1169190	36.50	ppm		94
45) 1-Methylnaphthalene	6.783	141	1213046	36.87	ppm		97
46) Dimethylnaphthalene	7.441	156	1214168	36.18	ppm		94
48) Hexachlorocyclopentadiene	6.842	237	282628	35.31	ppm		96
49) 2,4,6-Trichlorophenol	7.024	196	373297	40.23	ppm		99
50) 2,4,5-Trichlorophenol	7.088	196	362976	35.65	ppm		98
52) 2-Chloronaphthalene	7.264	162	1197392	36.72	ppm		96
53) Biphenyl	7.238	154	1658782	37.86	ppm		98
54) 2-Nitroaniline	7.419	65	592065	49.84	ppm		85
55) Dimethylphthalate	7.655	163	1441491	37.89	ppm		100
56) Acenaphthylene	7.804	152	2016820	36.89	ppm		99
57) 2,6-Dinitrotoluene	7.740	165	312673	40.10	ppm		82
58) 3-Nitroaniline	7.981	138	248532	24.97	ppm		95
59) Acenaphthene	8.040	153	1308830	37.96	ppm		99
60) 2,4-Dinitrophenol	8.136	184	39516	15.13	ppm		90
61) 4-Nitrophenol	8.302	109	284648m	48.66	ppm		
62) Dibenzofuran	8.286	168	1746822	38.10	ppm		89
63) 2,4-Dinitrotoluene	8.307	165	422646	40.36	ppm		90
64) 2,3,4,6-Tetrachlorophenol	8.489	232	279280	38.70	ppm		96
65) Diethylphthalate	8.660	149	1682930	43.44	ppm		99
66) Fluorene	8.783	166	1448333	37.73	ppm		99
67) 4-Chlorophenyl-phenyle...	8.794	204	629384	36.47	ppm		87
68) 4-Nitroaniline	8.864	138	327215	31.39	ppm		85
70) 4,6-Dinitro-2-methylph...	8.901	198	63045	14.28	ppm	#	1
71) n-Nitrosodiphenylamine	8.987	169	1011323	41.50	ppm		99
72) 1,2-Diphenylhydrazine	9.029	77	1980876	45.19	ppm		95
74) 4-Bromophenyl-phenylether	9.527	248	327069	37.28	ppm	#	83
75) Hexachlorobenzene	9.596	284	325035	33.92	ppm		62
76) Pentachlorophenol	9.933	266	193950	35.08	ppm		98
77) Phenanthrene	10.233	178	1895099	37.47	ppm		100
78) Anthracene	10.308	178	1880291	37.52	ppm		98
79) Carbazole	10.607	167	1728216	36.63	ppm		98
80) Di-n-butylphthalate	11.190	149	2492773	41.99	ppm		97
81) Fluoranthene	12.099	202	1954952	36.39	ppm		98
82) Octadecane	10.099	57	1241844	47.59	ppm		97
84) Pyrene	12.447	202	2012579	44.15	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:36:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration

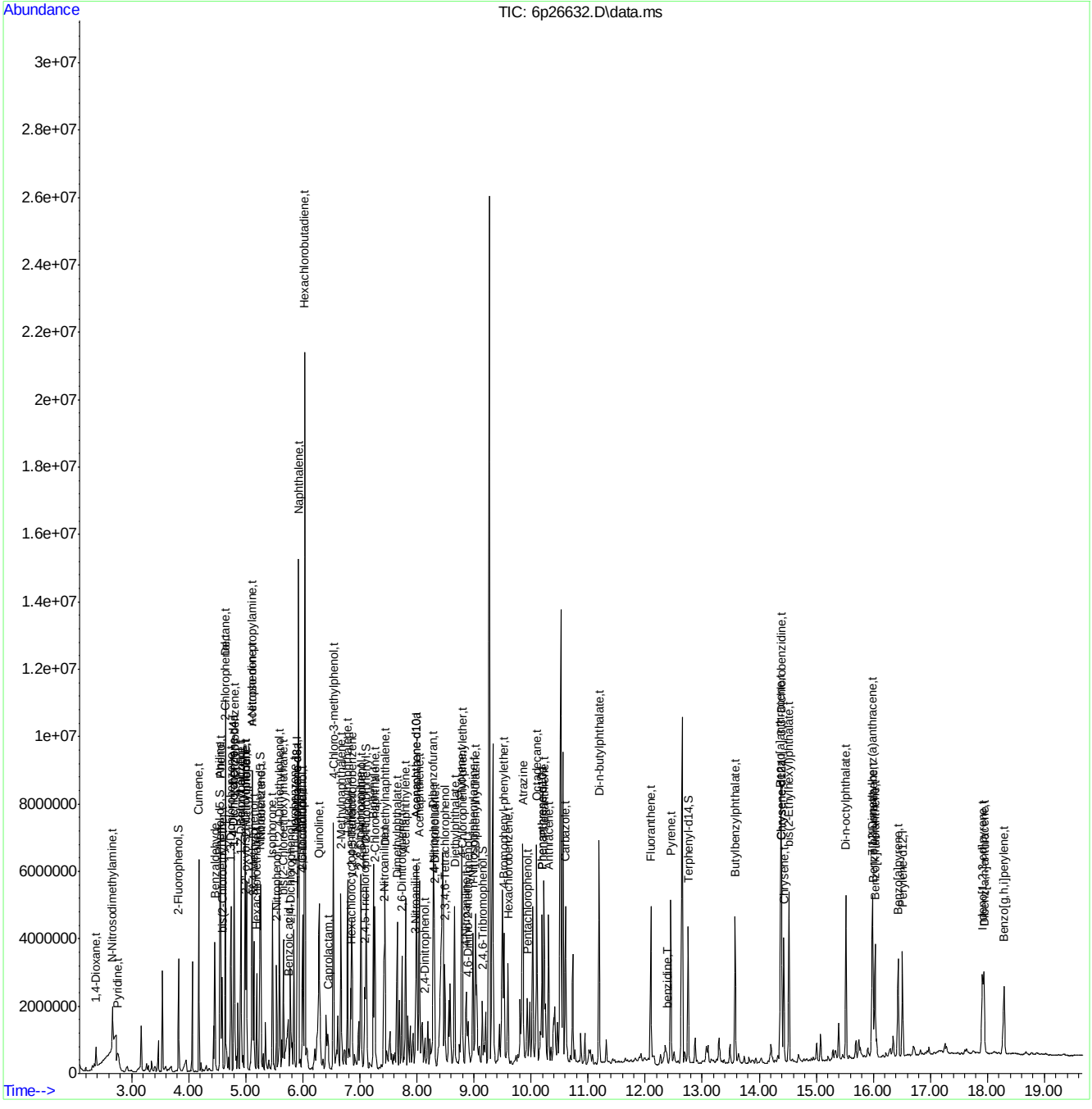
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Butylbenzylphthalate	13.581	149	985757	49.09	ppm	93
88) Benzo[a]anthracene	14.378	228	1526322	38.25	ppm	99
89) 3,3'-Dichlorobenzidine	14.383	252	706636	51.61	ppm	98
90) Chrysene	14.437	228	1360466	35.18	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.522	149	1348040	46.75	ppm	98
93) Di-n-octylphthalate	15.517	149	2201876	50.85	ppm	96
94) Benzo[b]fluoranthene	15.993	252	1421796	39.31	ppm	98
95) Benzo[k]fluoranthene	16.031	252	1376114	39.35	ppm	98
96) Benzo[a]pyrene	16.437	252	1280944	41.43	ppm	69
97) Indeno[1,2,3-cd]pyrene	17.913	276	1247839m	39.72	ppm	
99) Dibenz[a,h]anthracene	17.940	278	1254310	36.89	ppm	99
100) 7,12-Dimethylbenz(a)an...	15.983	256	691641	45.78	ppm	94
101) Benzo[g,h,i]perylene	18.293	276	1228528	36.07	ppm	99
103) Benzaldehyde	4.456	105	529868	34.09	ppm	89
105) 1,2,4,5-Tetrachloroben...	6.863	216	567173	40.04	ppm	98
107) Atrazine	9.853	215	175953m	40.38	ppm	
109) benzidine	12.383	184	78619	9.89	ppm	77

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:36:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration



Manual Integration Approval Summary

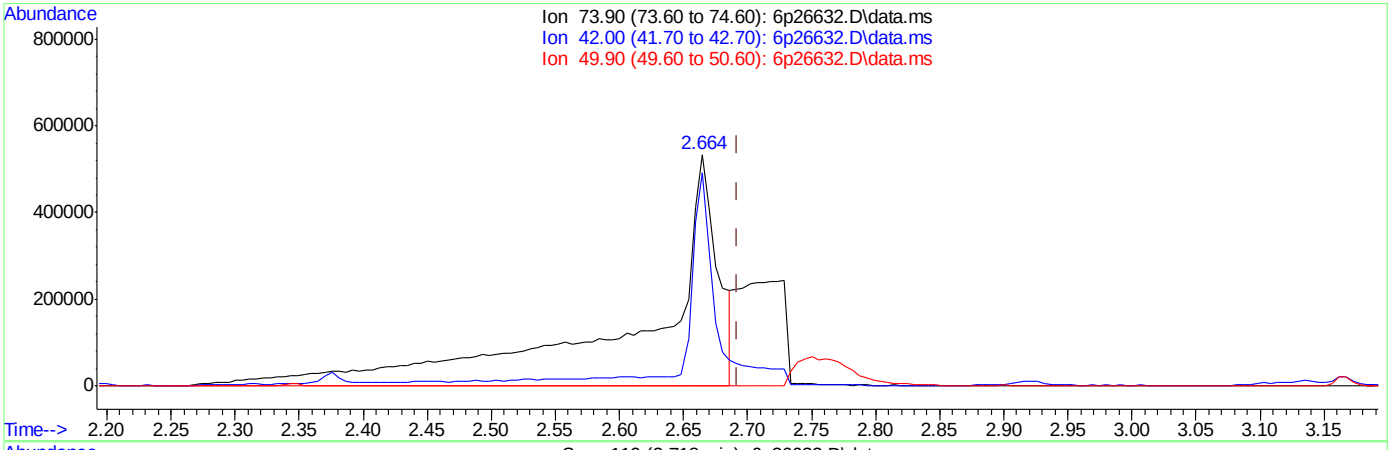
Sample Number:	OP94419-MS	**Method:**	SW846 8270D
Lab FileID:	6P26632.D	**Analyst approved:**	06/03/16 12:59 Arielle Cocozza
Injection Time:	06/03/16 02:40	**Supervisor approved:**	06/13/16 16:58 Kristi Schollenberger

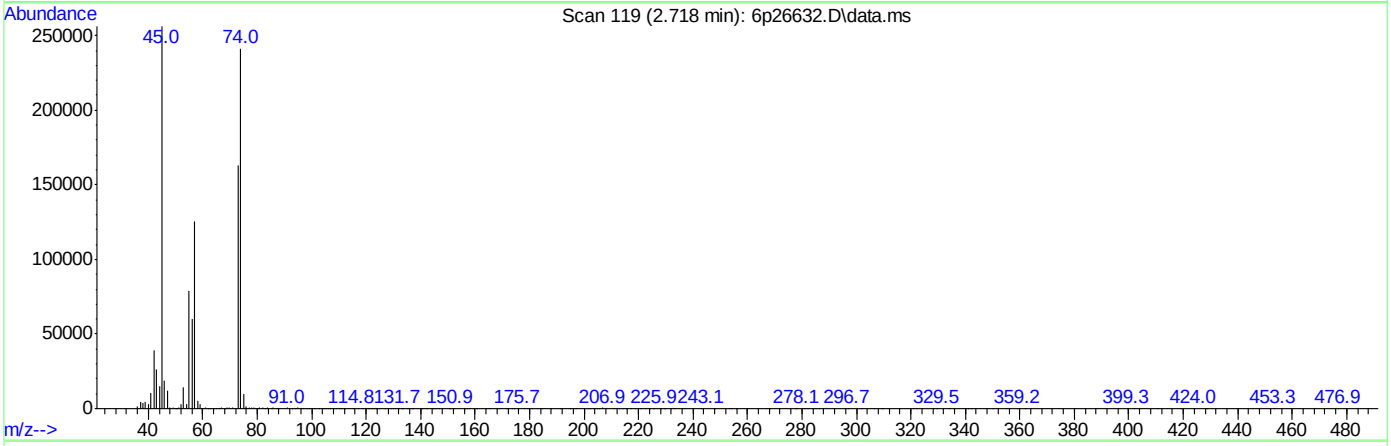
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Nitrosodimethylamine	62-75-9		2.66	Poor instrument integration
Caprolactam	105-60-2		6.44	Poor instrument integration
4-Nitrophenol	100-02-7		8.30	Poor instrument integration
Atrazine	1912-24-9		9.85	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 02:59:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(4) N-Nitrosodimethylamine (t)

2.664min (-0.028) 157.61ppm

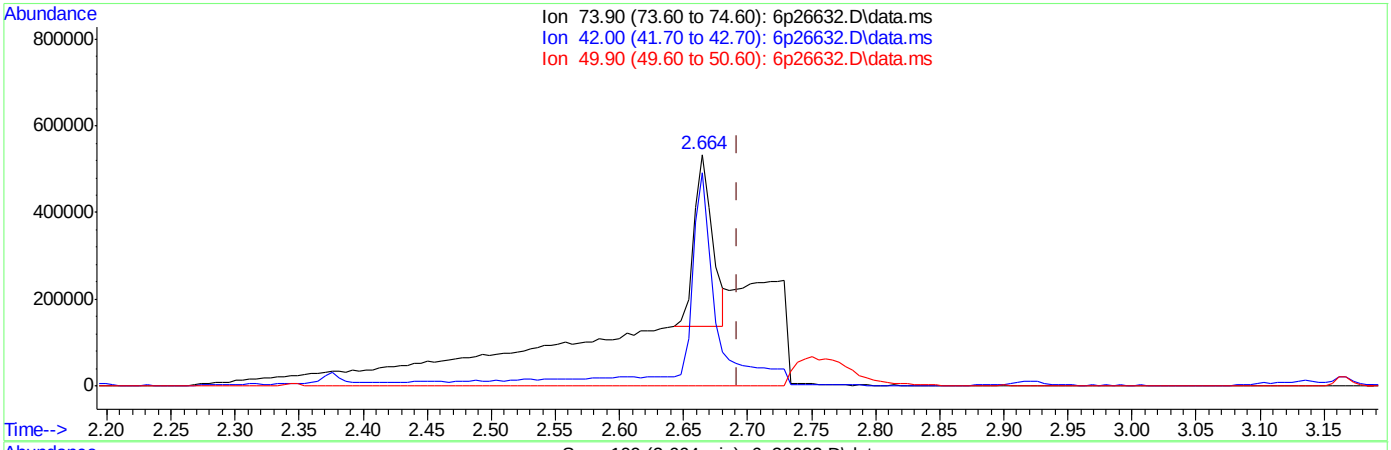
response 2183441

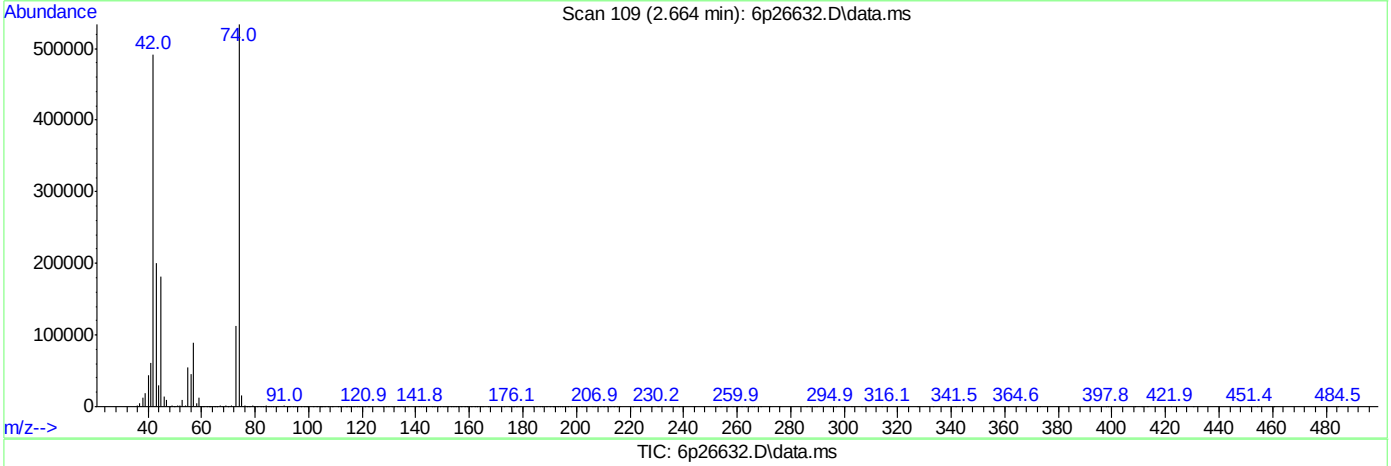
Ion	Exp%	Act%
73.90	100	100
42.00	91.60	108.79
49.90	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(4) N-Nitrosodimethylamine (t)

2.664min (-0.028) 28.90ppm m

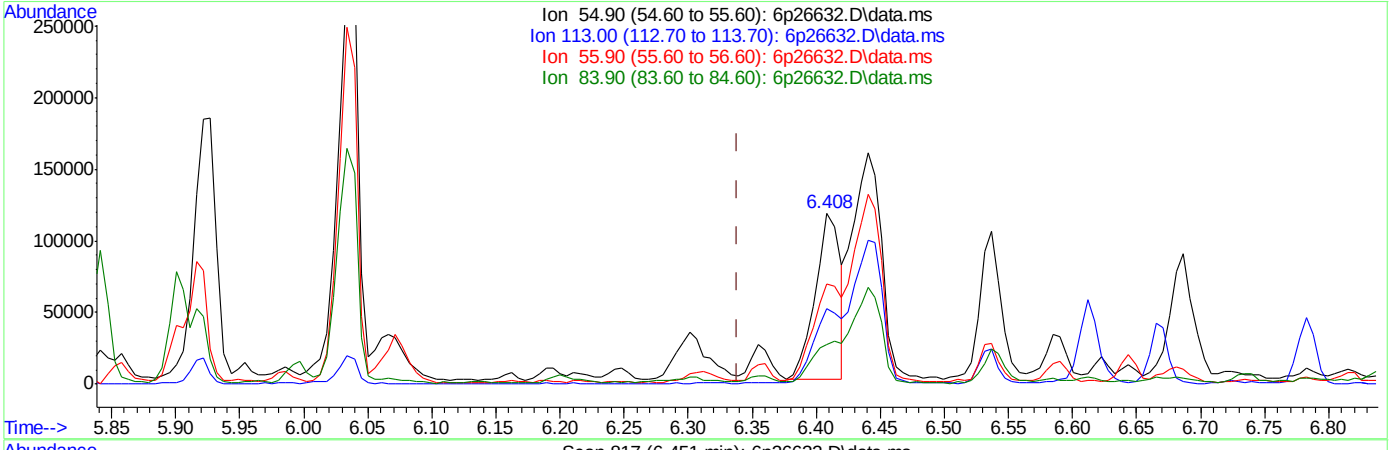
response 400419

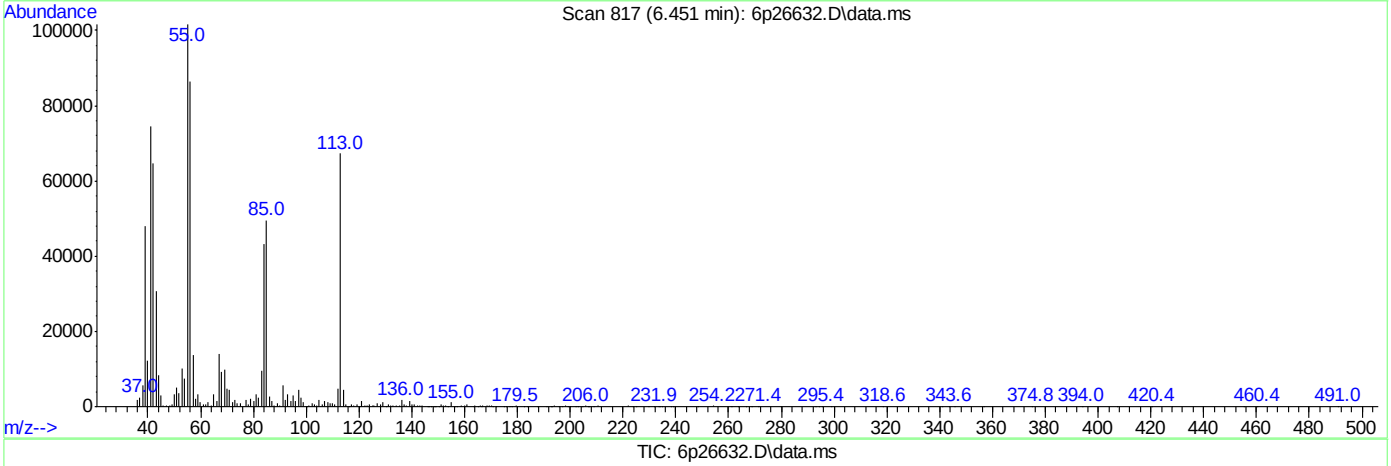
Ion	Exp%	Act%
73.90	100	100
42.00	91.60	92.22
49.90	0.00	0.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(41) Caprolactam (t)

6.408min (+0.070) 15.31ppm

response 153125

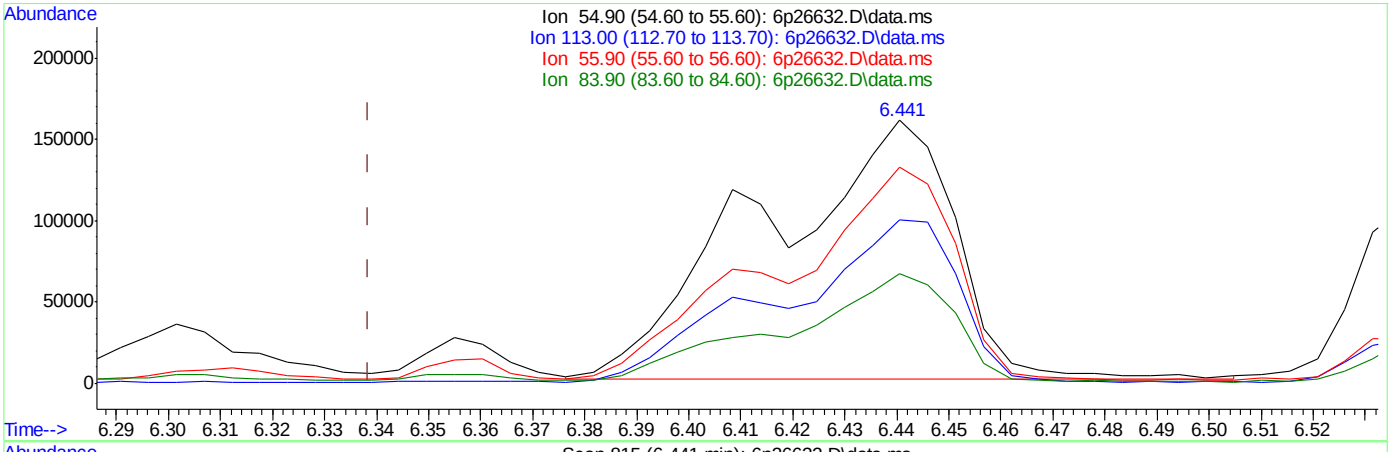
Ion	Exp%	Act%
54.90	100	100
113.00	68.30	39.12
55.90	78.30	50.61
83.90	43.10	17.18

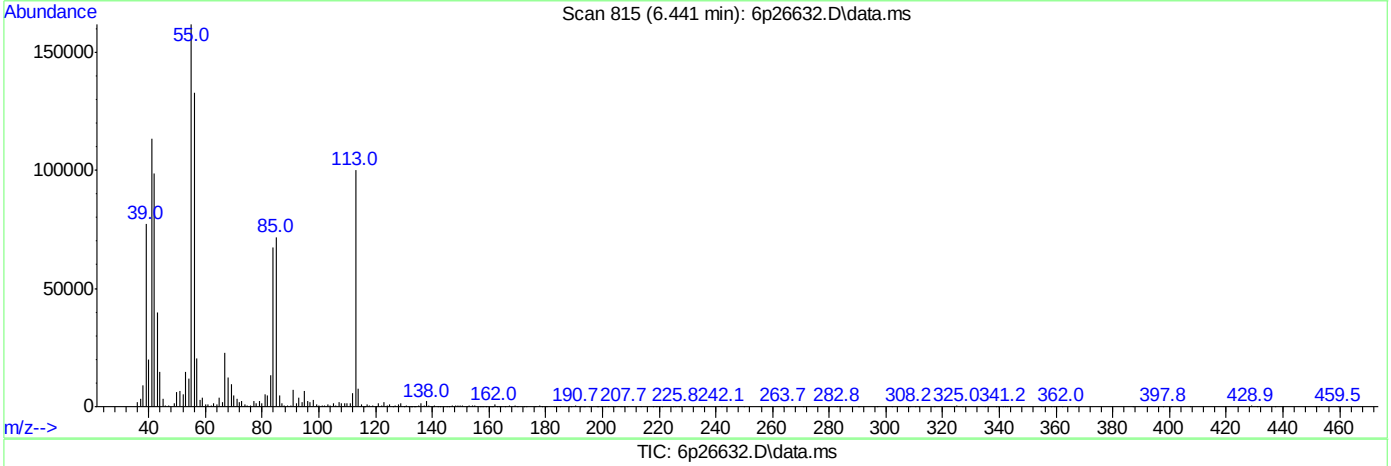
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(41) Caprolactam (t)

6.441min (+0.102) 41.60ppm m

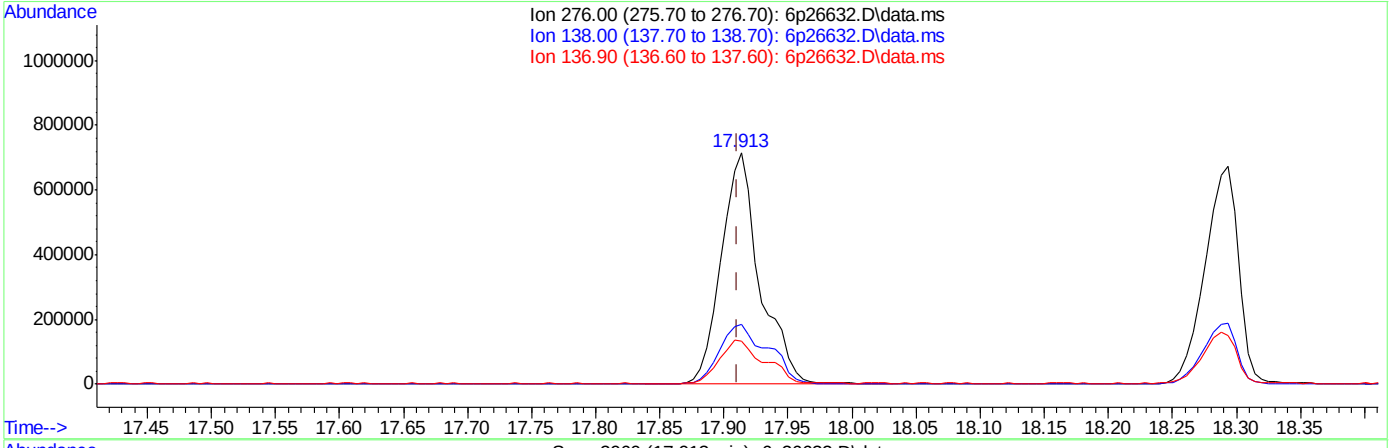
response 416016

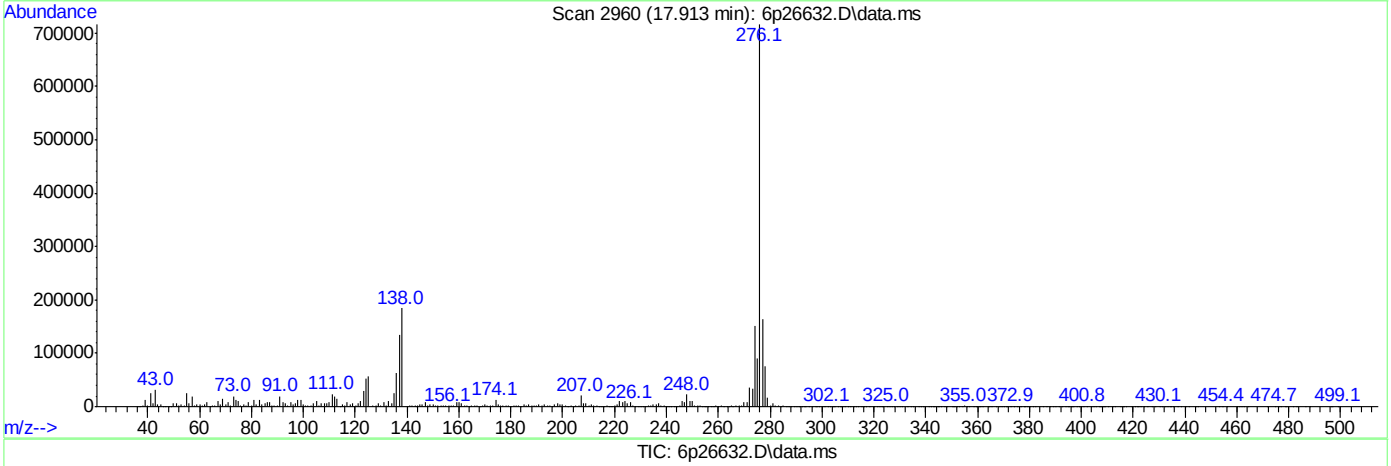
Ion	Exp%	Act%
54.90	100	100
113.00	68.30	62.01
55.90	78.30	82.03
83.90	43.10	41.71

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.913min (+0.003) 47.48ppm

response 1491589

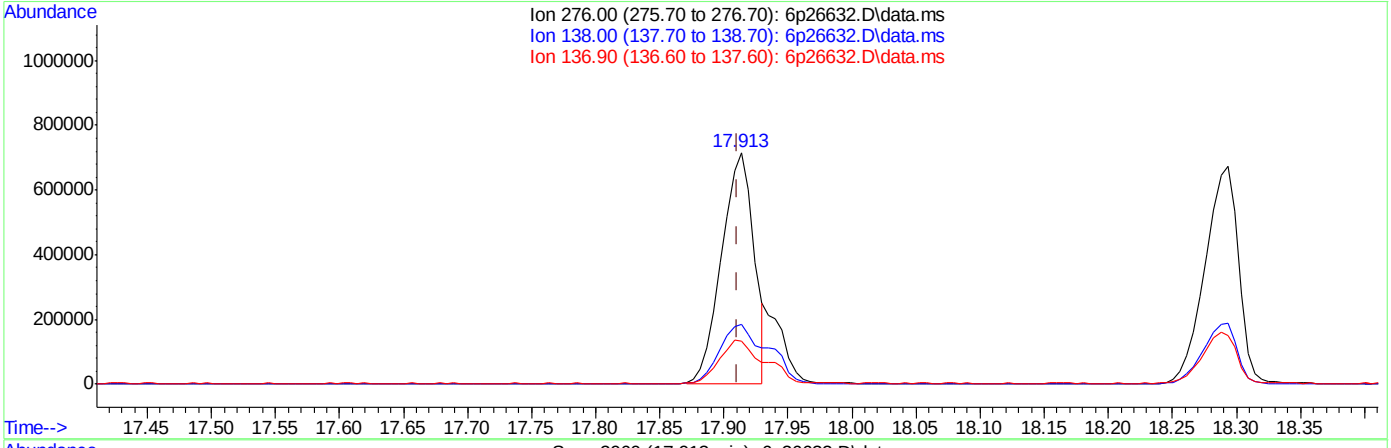
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	25.59
136.90	22.40	18.41
0.00	0.00	0.00

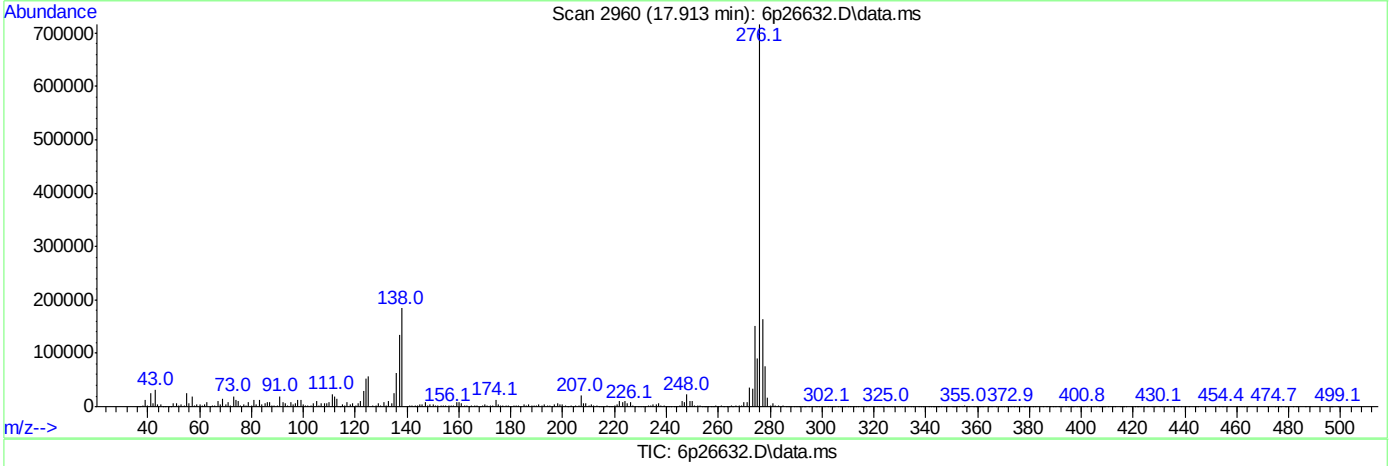
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.913min (+0.003) 39.72ppm m

response 1247839

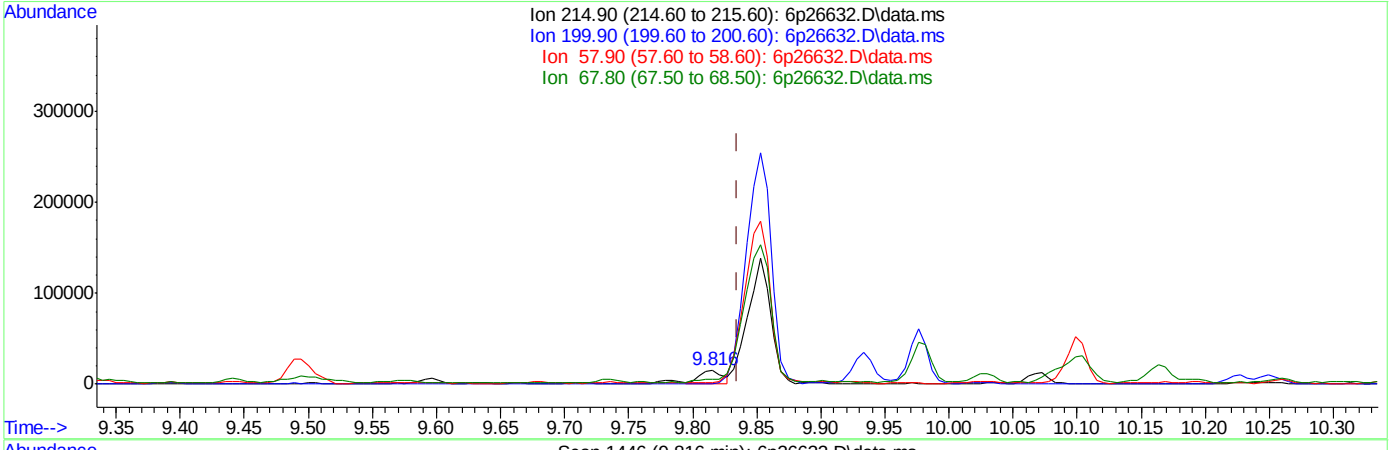
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	25.76
136.90	22.40	18.73
0.00	0.00	0.00

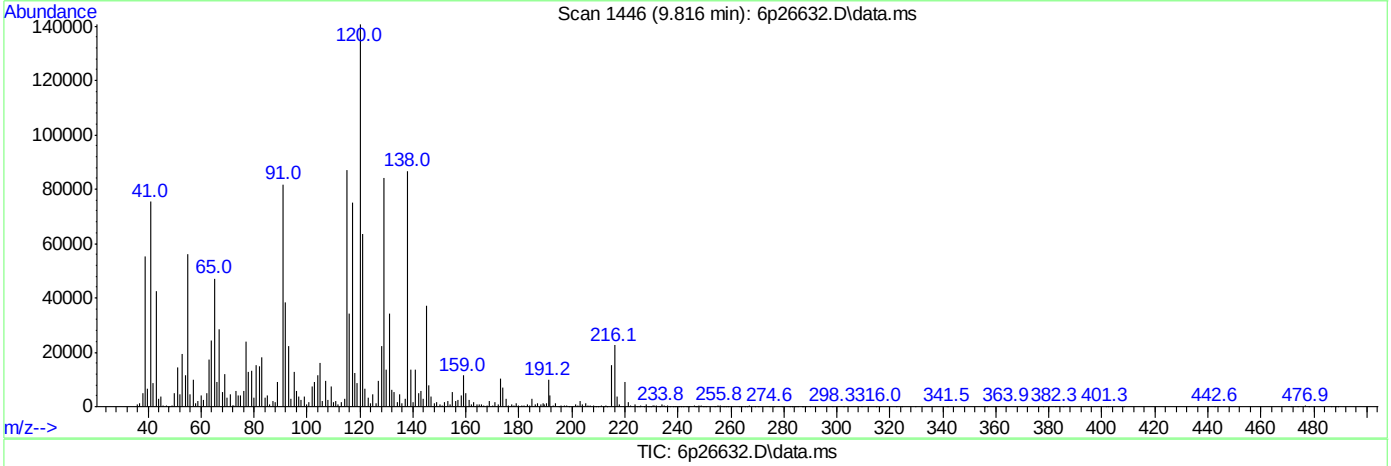
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(107) Atrazine

9.816min (-0.019) 4.33ppm

response 18875

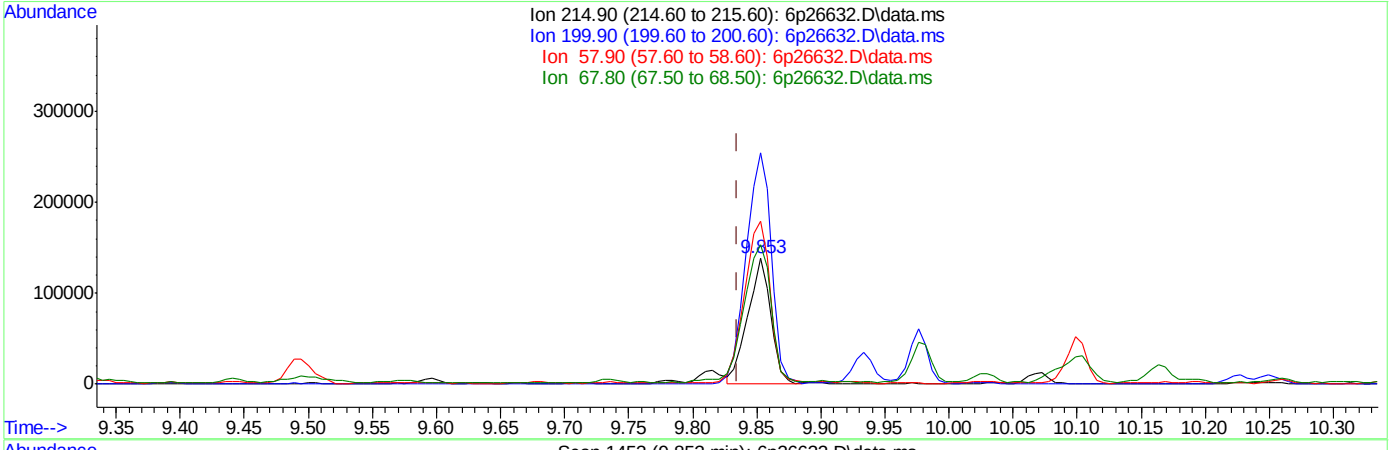
Ion	Exp%	Act%
214.90	100	100
199.90	185.70	0.00#
57.90	98.90	0.00#
67.80	67.90	0.00#

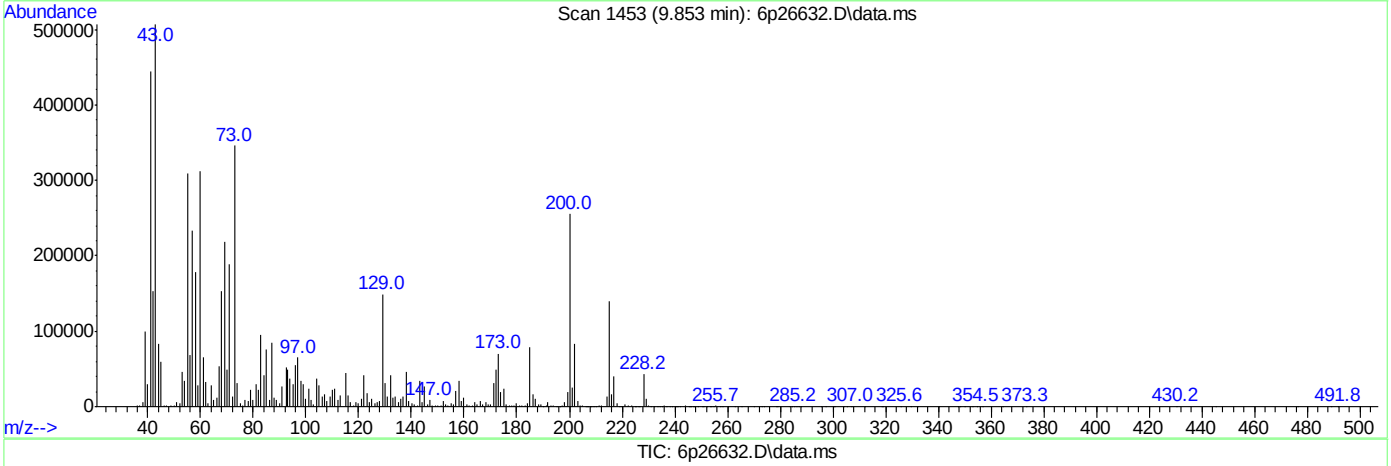
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(107) Atrazine

9.853min (+0.018) 40.38ppm m

response 175953

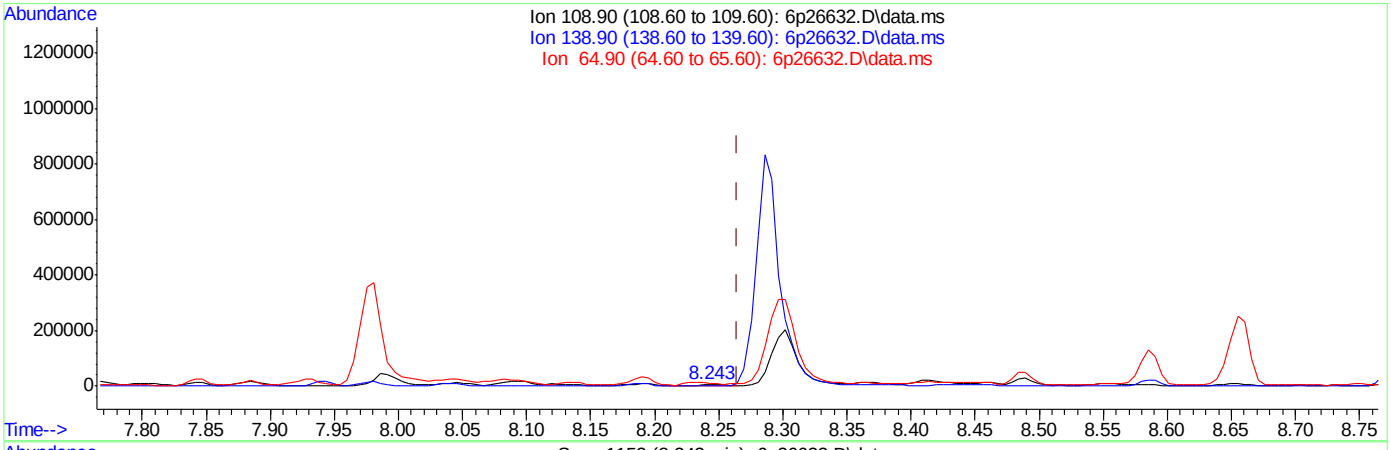
Ion	Exp%	Act%
214.90	100	100
199.90	185.70	183.13
57.90	98.90	128.51
67.80	67.90	109.79#

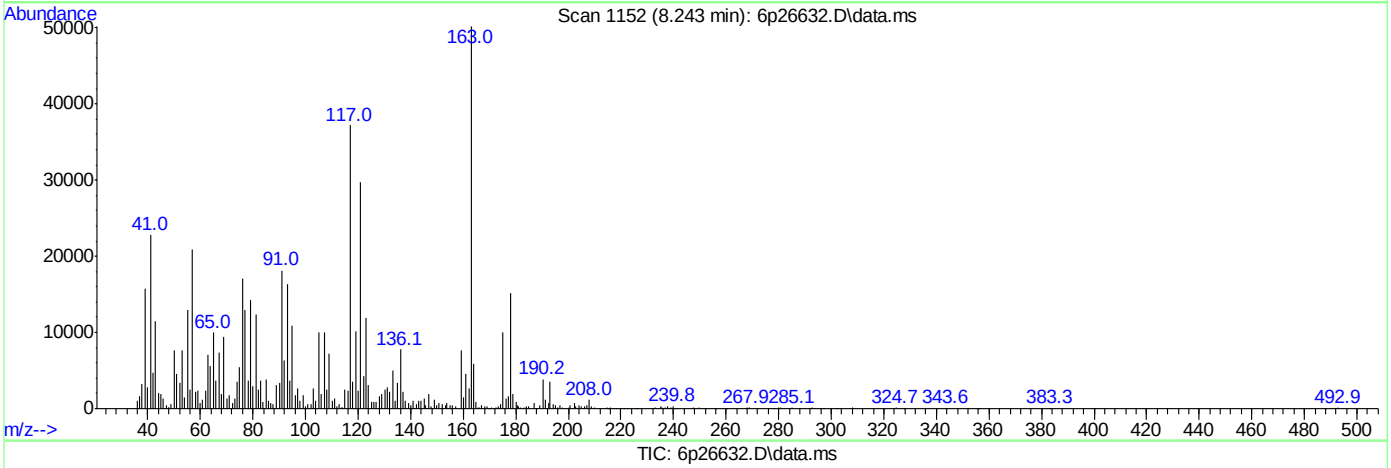
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(61) 4-Nitrophenol (t)

8.243min (-0.022) 1.21ppm

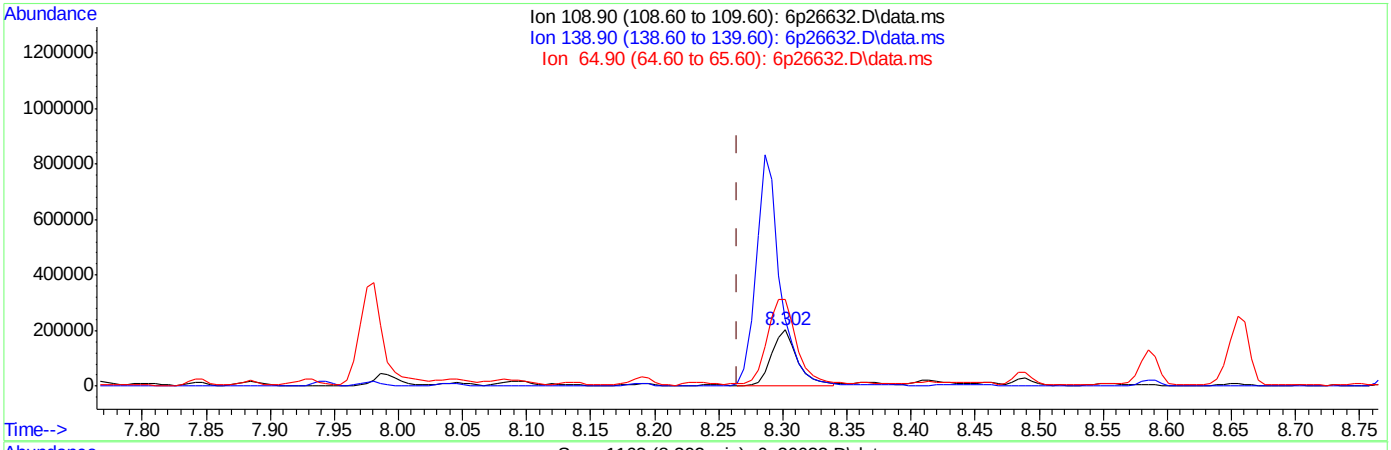
response 7067

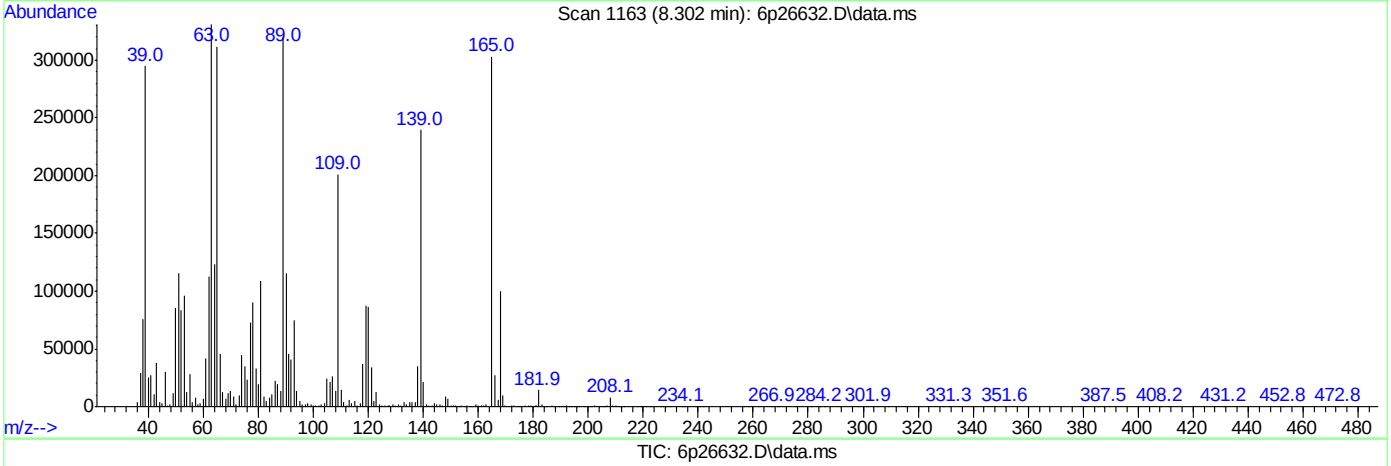
Ion	Exp%	Act%
108.90	100	100
138.90	492.20	0.00#
64.90	160.30	71.97#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26632.D
Acq On : 3 Jun 2016 2:40 am
Operator : seanb1
Sample : op94419-ms
Misc : op94419,e6p1236,30.1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 10:33:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:32:56 2016
QLast Update : Fri Jun 03 10:33:22 2016
Response via : Initial Calibration





TIC: 6p26632.D\data.ms

(61) 4-Nitrophenol (t)

8.302min (+0.037) 48.66ppm m

response 284648

Ion	Exp%	Act%
108.90	100	100
138.90	492.20	118.98#
64.90	160.30	154.70
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/13/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:38:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.788	152	463437	40.00	ppm	0.00
24) Naphthalene-d8	5.900	136	1888567	40.00	ppm	-0.02
47) Acenaphthene-d10	7.997	164	1013427	40.00	ppm	0.00
69) Phenanthrene-d10	10.190	188	1586465	40.00	ppm	-0.01
83) Chrysene-d12	14.389	240	1215743	40.00	ppm	0.00
92) Perylene-d12	16.512	264	1025438	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.788	152	463437	40.00	ppm	0.00
104) Acenaphthene-d10a	7.997	164	1013427	40.00	ppm	-0.02
106) Phenanthrene-d10a	10.190	188	1586465	40.00	ppm	-0.02
108) Chrysene-d12a	14.389	240	1215743	40.00	ppm	-0.02
110) Naphthalene-d8a	5.900	136	1888567	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.820	112	568780	32.21	ppm	0.02
Spiked Amount 50.000			Recovery = 64.42%			
8) Phenol-d5	4.542	99	769137	33.27	ppm	0.02
Spiked Amount 50.000			Recovery = 66.54%			
25) Nitrobenzene-d5	5.242	82	787986	37.42	ppm	0.00
Spiked Amount 50.000			Recovery = 74.84%			
51) 2-Fluorobiphenyl	7.109	172	1192853	36.51	ppm	0.00
Spiked Amount 50.000			Recovery = 73.02%			
73) 2,4,6-Tribromophenol	9.147	330	128867	32.41	ppm	0.02
Spiked Amount 50.000			Recovery = 64.82%			
85) Terphenyl-d14	12.752	244	1021524	40.11	ppm	0.00
Spiked Amount 50.000			Recovery = 80.22%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.376	88	150424	18.28	ppm	97
3) Pyridine	2.755	79	459865	22.07	ppm	84
4) N-Nitrosodimethylamine	2.664	74	349514m	28.09	ppm	
6) Indene	4.991	116	1114644	35.36	ppm	97
7) Cumene	4.178	105	1523918	34.07	ppm	98
9) Phenol	4.552	94	980432	39.55	ppm	97
10) Aniline	4.542	93	588581	20.94	ppm	68
11) bis(2-Chloroethyl)ether	4.585	93	625096	35.48	ppm	98
12) 2-Chlorophenol	4.638	128	629837	35.04	ppm	94
13) Decane	4.643	43	859875	37.30	ppm	97
14) 1,3-Dichlorobenzene	4.740	146	603202	32.06	ppm	97
15) 1,4-Dichlorobenzene	4.798	146	640105	33.57	ppm	98
16) Benzyl alcohol	4.911	108	448448	36.51	ppm	84
17) 1,2-Dichlorobenzene	4.921	146	581913	32.23	ppm	99
18) Acetophenone	5.114	105	966396	37.14	ppm	97
19) 2-Methylphenol	5.012	108	588332	34.39	ppm	91
20) 2,2'-oxybis(1-Chloropr...	4.996	121	193260	30.65	ppm	94
21) 3&4-Methylphenol	5.141	108	624811	34.62	ppm	96
22) n-Nitroso-di-n-propyla...	5.109	70	565935	36.47	ppm	90
23) Hexachloroethane	5.194	201	185859	32.71	ppm	90
26) Nitrobenzene	5.264	77	799635	36.35	ppm	98
27) Quinoline	6.280	129	1144558	32.50	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:38:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.467	82	1427943	38.25	ppm		94
29) 2-Nitrophenol	5.542	139	290635	31.29	ppm		95
30) 2,4-Dimethylphenol	5.590	107	741571	42.98	ppm		93
31) Benzoic acid	5.740	105	569696	50.11	ppm		91
32) bis(2-Chloroethoxy)met...	5.660	93	698221	33.10	ppm		98
33) 2,4-Dichlorophenol	5.783	162	463973	35.01	ppm		94
34) 2,6-Dichlorophenol	5.991	162	455675	35.75	ppm		94
36) 1,2,4-Trichlorobenzene	5.841	180	461794	33.12	ppm		96
38) Naphthalene	5.922	128	1916723	35.97	ppm		92
39) 4-Chloroaniline	5.986	127	375091	17.26	ppm		94
40) 2,3-Dichloroaniline	7.013	161	508335	30.93	ppm		97
41) Caprolactam	6.430	55	353172m	39.55	ppm		
42) Hexachlorobutadiene	6.029	225	276868	38.89	ppm		98
43) 4-Chloro-3-methylphenol	6.531	107	664539	40.53	ppm		93
44) 2-Methylnaphthalene	6.665	141	1002981	35.07	ppm		95
45) 1-Methylnaphthalene	6.783	141	1037137	35.31	ppm		95
46) Dimethylnaphthalene	7.435	156	1022966	34.14	ppm		92
48) Hexachlorocyclopentadiene	6.842	237	220924	31.12	ppm		94
49) 2,4,6-Trichlorophenol	7.023	196	317931	38.63	ppm		99
50) 2,4,5-Trichlorophenol	7.088	196	309647	34.29	ppm		97
52) 2-Chloronaphthalene	7.264	162	1013576	35.04	ppm		97
53) Biphenyl	7.237	154	1415387	36.43	ppm		99
54) 2-Nitroaniline	7.419	65	500078	47.46	ppm		87
55) Dimethylphthalate	7.649	163	1217759	36.09	ppm		100
56) Acenaphthylene	7.804	152	1686456	34.78	ppm		100
57) 2,6-Dinitrotoluene	7.740	165	260004	37.59	ppm		83
58) 3-Nitroaniline	7.976	138	156184	17.69	ppm		90
59) Acenaphthene	8.040	153	1101362	36.02	ppm		100
60) 2,4-Dinitrophenol	8.131	184	44094	17.69	ppm		70
61) 4-Nitrophenol	8.296	109	244305m	47.09	ppm		
62) Dibenzofuran	8.286	168	1469419	36.14	ppm		87
63) 2,4-Dinitrotoluene	8.307	165	352553	37.96	ppm		99
64) 2,3,4,6-Tetrachlorophenol	8.489	232	228111	35.64	ppm		97
65) Diethylphthalate	8.655	149	1385273	40.31	ppm		99
66) Fluorene	8.778	166	1233964	36.24	ppm		99
67) 4-Chlorophenyl-phenyle...	8.794	204	526378	34.39	ppm		89
68) 4-Nitroaniline	8.858	138	270628	29.27	ppm		81
70) 4,6-Dinitro-2-methylph...	8.901	198	76091	18.10	ppm	#	70
71) n-Nitrosodiphenylamine	8.981	169	865866	39.07	ppm		98
72) 1,2-Diphenylhydrazine	9.029	77	1652517	41.46	ppm		97
74) 4-Bromophenyl-phenylether	9.527	248	277186	34.74	ppm		90
75) Hexachlorobenzene	9.596	284	278000	31.90	ppm		75
76) Pentachlorophenol	9.933	266	163138	32.44	ppm		98
77) Phenanthrene	10.227	178	1596688	34.71	ppm		99
78) Anthracene	10.308	178	1619363	35.53	ppm		99
79) Carbazole	10.602	167	1517545	35.36	ppm		98
80) Di-n-butylphthalate	11.190	149	2144194	39.71	ppm		99
81) Fluoranthene	12.099	202	1671589	34.21	ppm		97
82) Octadecane	10.099	57	1062792	44.79	ppm		98
84) Pyrene	12.447	202	1726880	41.87	ppm		97

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:38:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86)	Butylbenzylphthalate	13.576	149	884437	48.69	ppm		91
88)	Benzo[a]anthracene	14.378	228	1301299	36.05	ppm		99
89)	3,3'-Dichlorobenzidine	14.383	252	665443	53.73	ppm		98
90)	Chrysene	14.431	228	1156380	33.06	ppm		99
91)	bis(2-Ethylhexyl)phtha...	14.522	149	1138756	43.71	ppm		99
93)	Di-n-octylphthalate	15.517	149	1871266	48.23	ppm		96
94)	Benzo[b]fluoranthene	15.988	252	1188246	36.64	ppm		98
95)	Benzo[k]fluoranthene	16.031	252	1128006	35.98	ppm		97
96)	Benzo[a]pyrene	16.432	252	1057133	38.14	ppm		70
97)	Indeno[1,2,3-cd]pyrene	17.908	276	1043613m	37.06	ppm		
99)	Dibenz[a,h]anthracene	17.940	278	1023222	33.56	ppm		99
100)	7,12-Dimethylbenz(a)an...	15.982	256	578829	42.74	ppm		92
101)	Benzo[g,h,i]perylene	18.288	276	991446	32.47	ppm		99
103)	Benzaldehyde	4.456	105	458674	32.86	ppm		89
105)	1,2,4,5-Tetrachloroben...	6.863	216	481516	38.33	ppm		99
107)	Atrazine	9.848	215	161471	40.75	ppm	#	77
109)	benzidine	12.372	184	209372	20.21	ppm		98

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

7.4.4

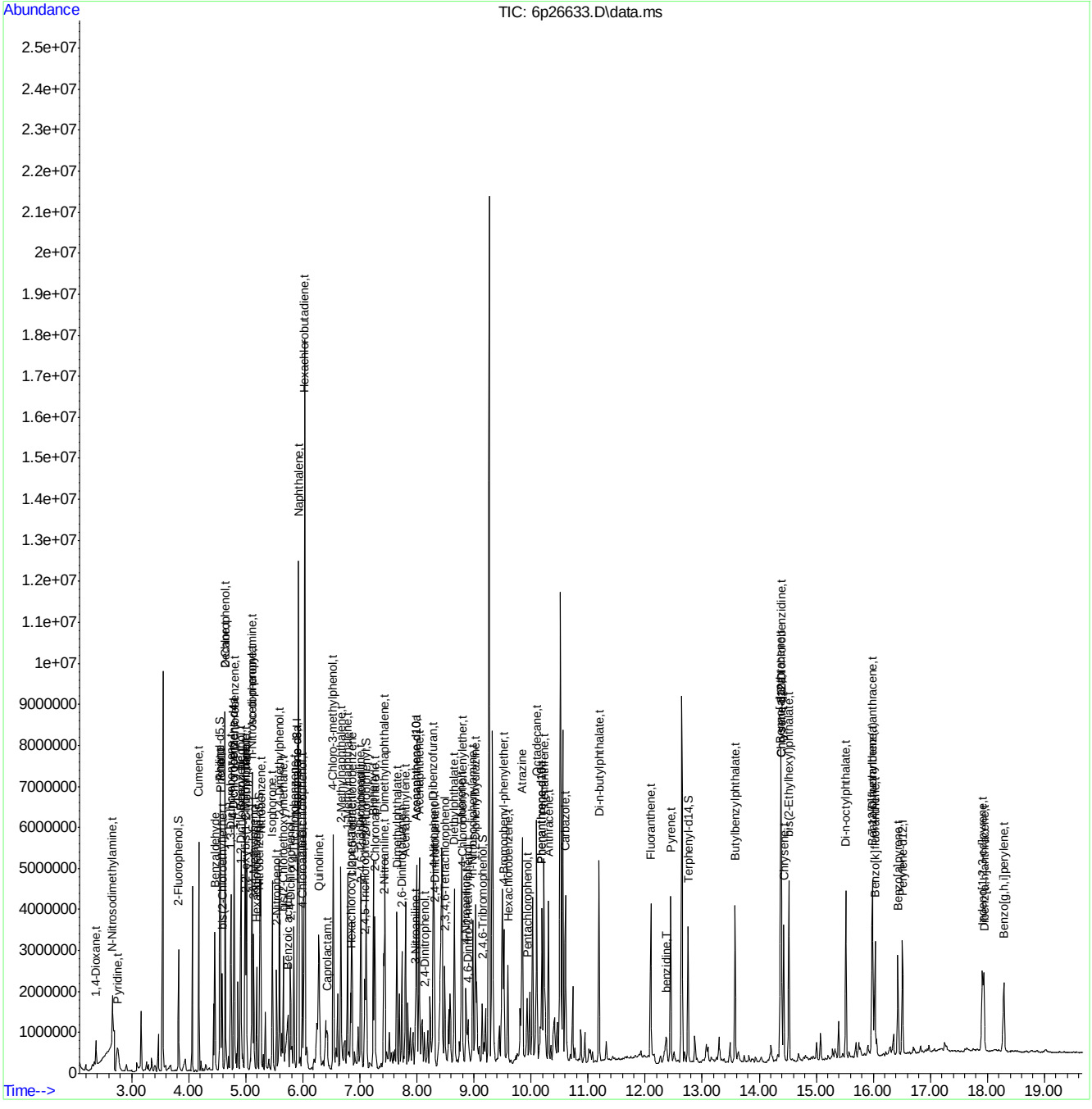
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:38:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

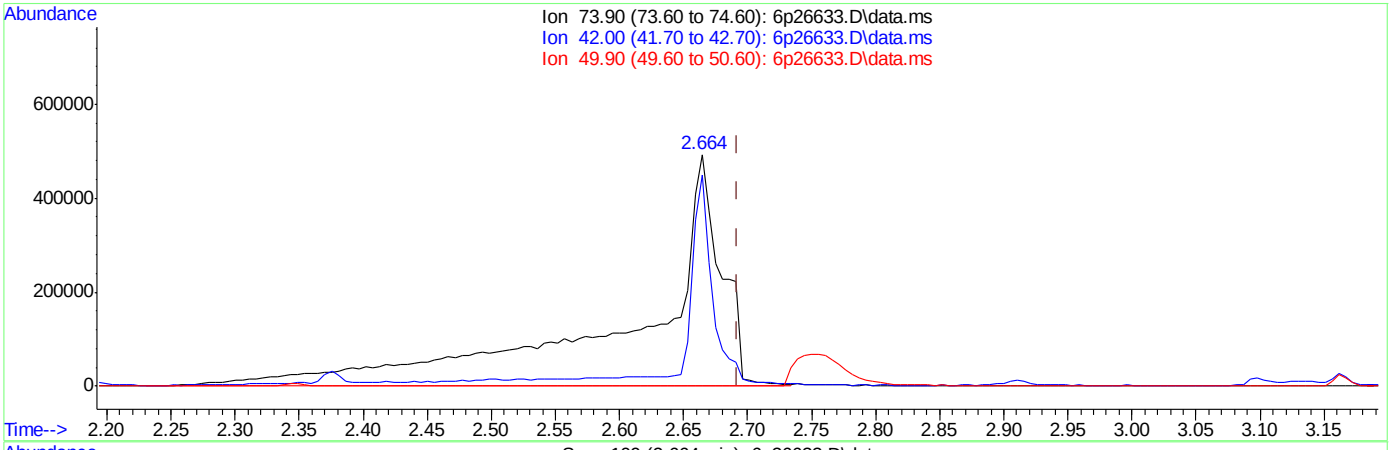
Sample Number:	OP94419-MSD	**Method:**	SW846 8270D
Lab FileID:	6P26633.D	**Analyst approved:**	06/03/16 12:59 Arielle Cocozza
Injection Time:	06/03/16 03:07	**Supervisor approved:**	06/13/16 16:58 Kristi Schollenberger

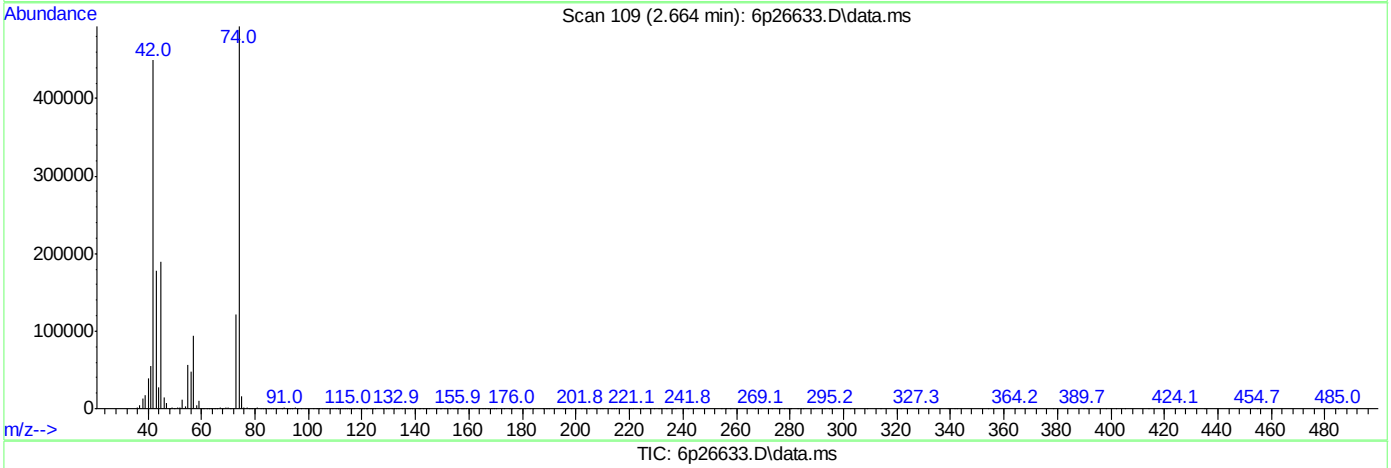
Parameter	CAS	Sig#	R.T. (min.)	Reason
n-Nitrosodimethylamine	62-75-9		2.66	Poor instrument integration
Caprolactam	105-60-2		6.43	Poor instrument integration
4-Nitrophenol	100-02-7		8.30	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		17.91	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





(4) N-Nitrosodimethylamine (t)

2.664min (-0.028) 179.64ppm

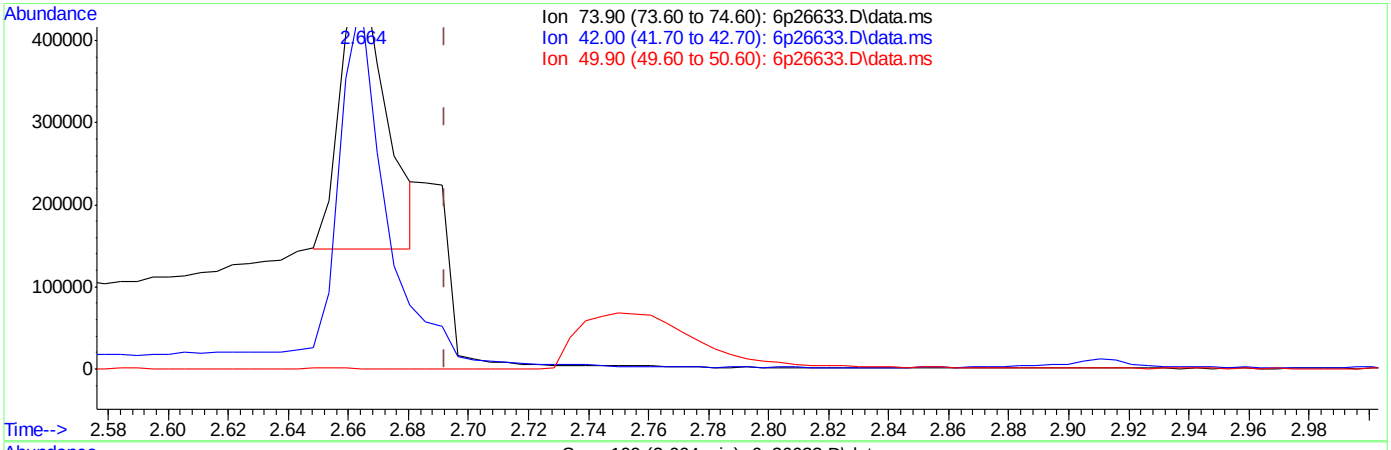
response 2235165

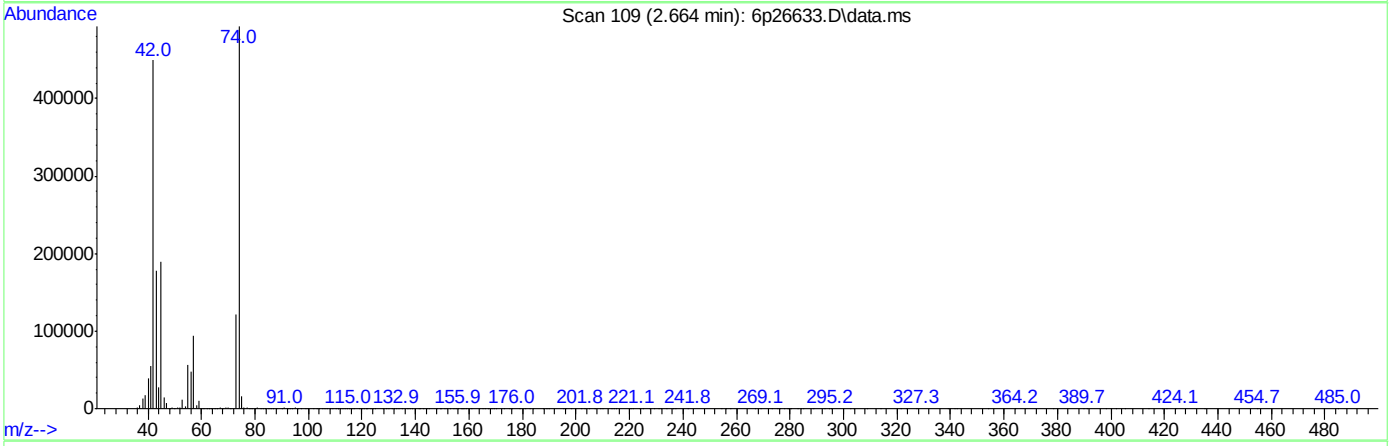
Ion	Exp%	Act%
73.90	100	100
42.00	91.60	90.71
49.90	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





TIC: 6p26633.D\data.ms

(4) N-Nitrosodimethylamine (t)

2.664min (-0.028) 28.09ppm m

response 349514

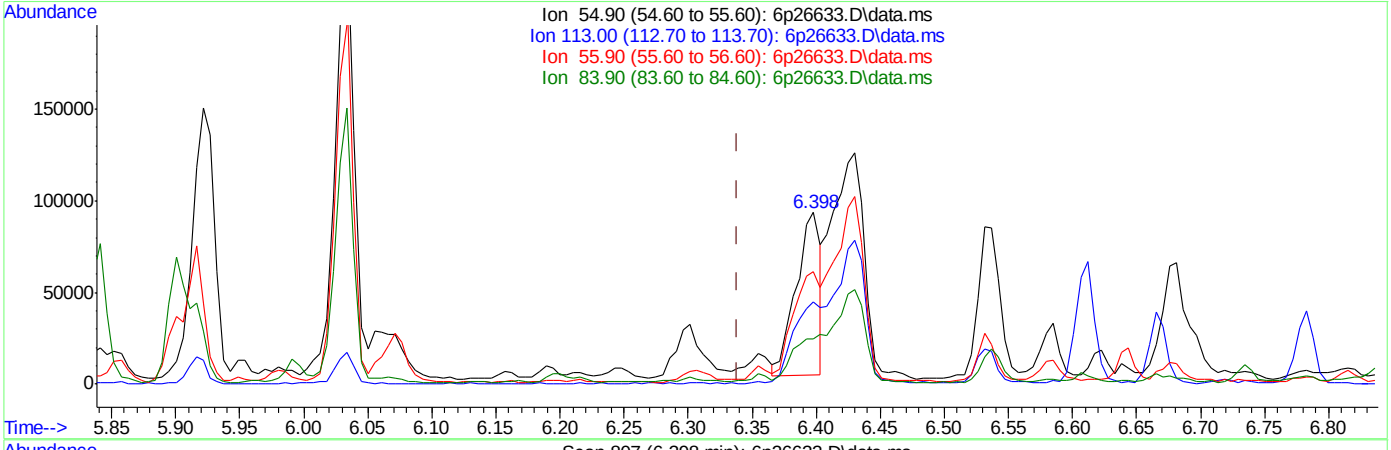
Ion	Exp%	Act%
73.90	100	100
42.00	91.60	91.13
49.90	0.00	0.03
0.00	0.00	0.00

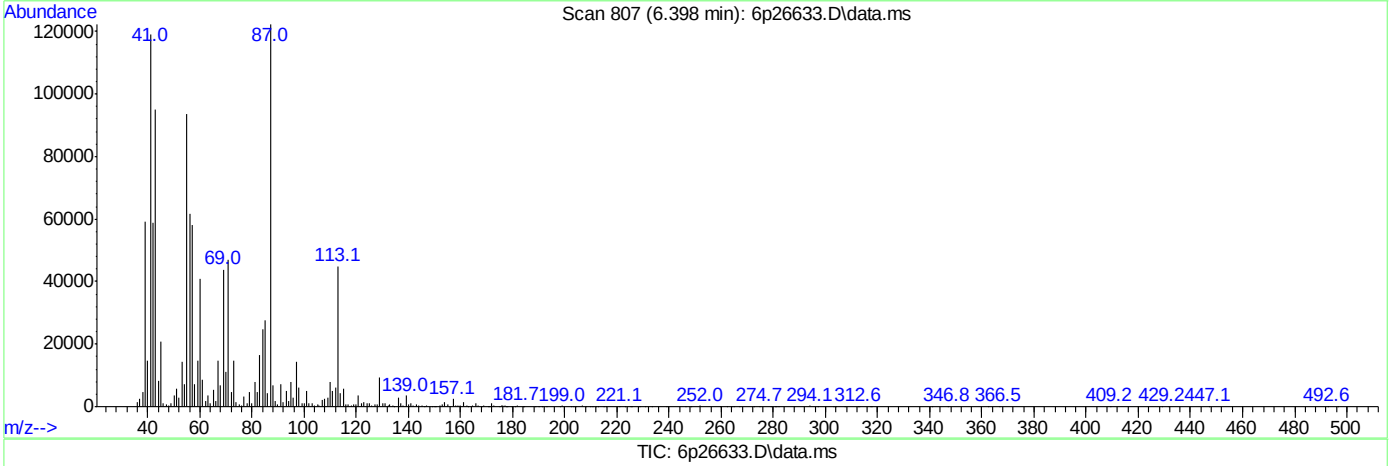
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





TIC: 6p26633.D\data.ms

(41) Caprolactam (t)

6.398min (+0.059) 13.33ppm

response 119051

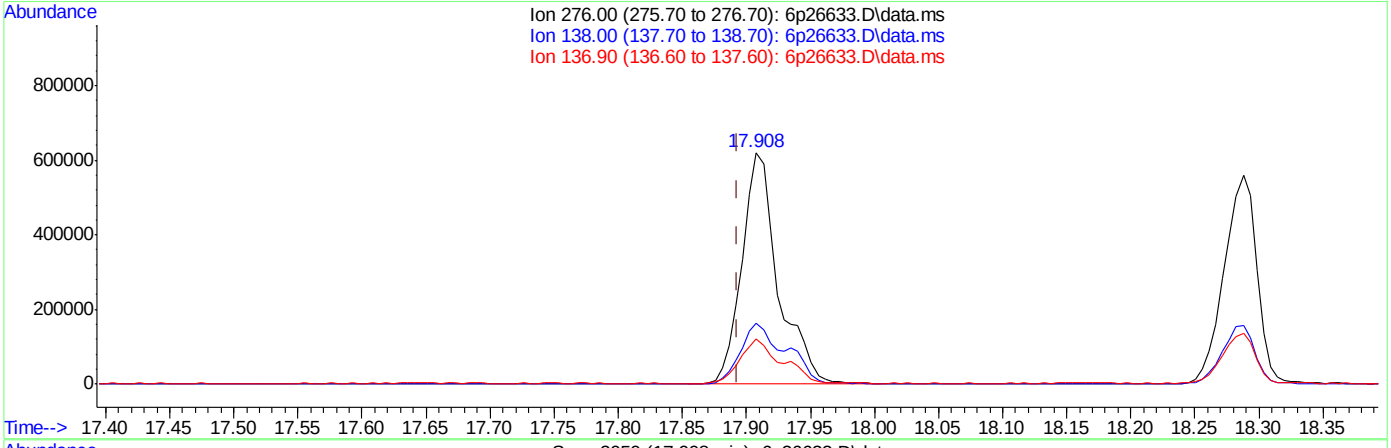
Ion	Exp%	Act%
54.90	100	100
113.00	68.30	46.41
55.90	78.30	63.92
83.90	43.10	20.53

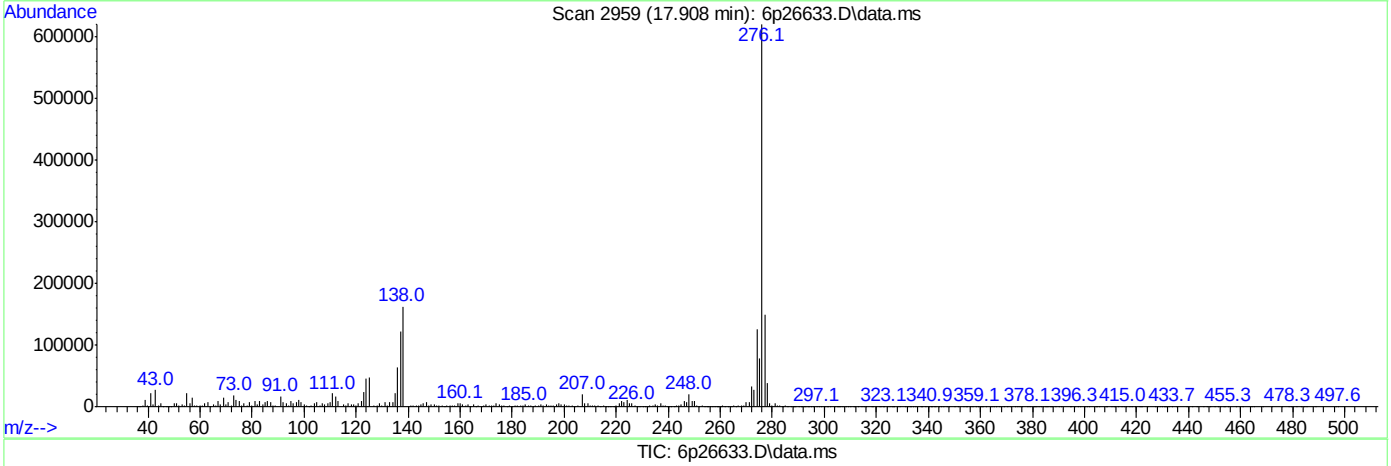
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





(97) Indeno[1,2,3-cd]pyrene (t)

17.908min (+0.015) 43.29ppm

response 1219138

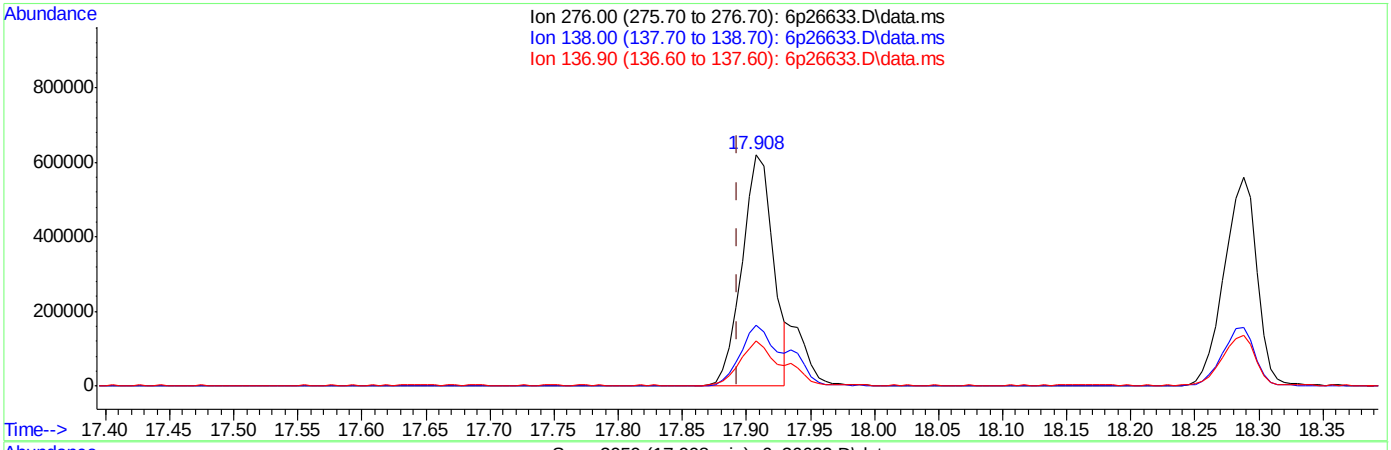
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	26.02
136.90	22.40	19.29
0.00	0.00	0.00

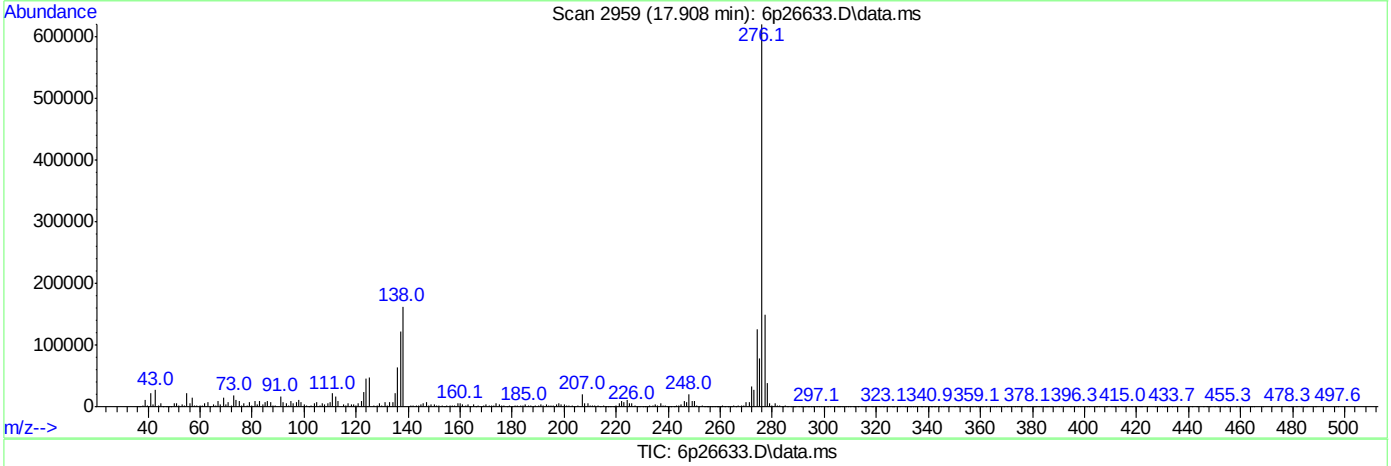
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





(97) Indeno[1,2,3-cd]pyrene (t)

17.908min (+0.015) 37.06ppm m

response 1043613

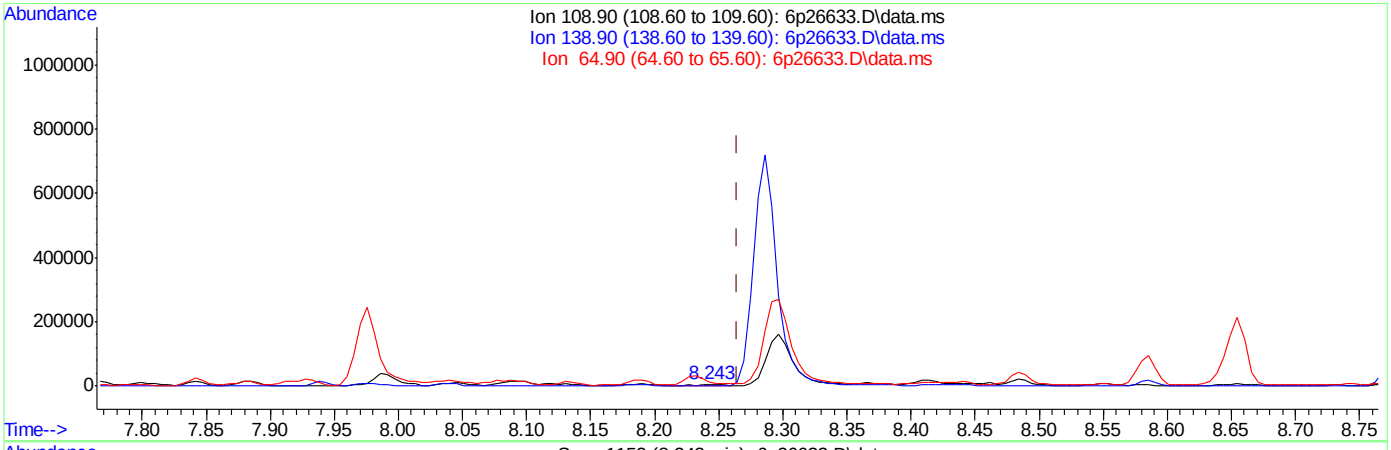
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	26.18
136.90	22.40	19.61
0.00	0.00	0.00

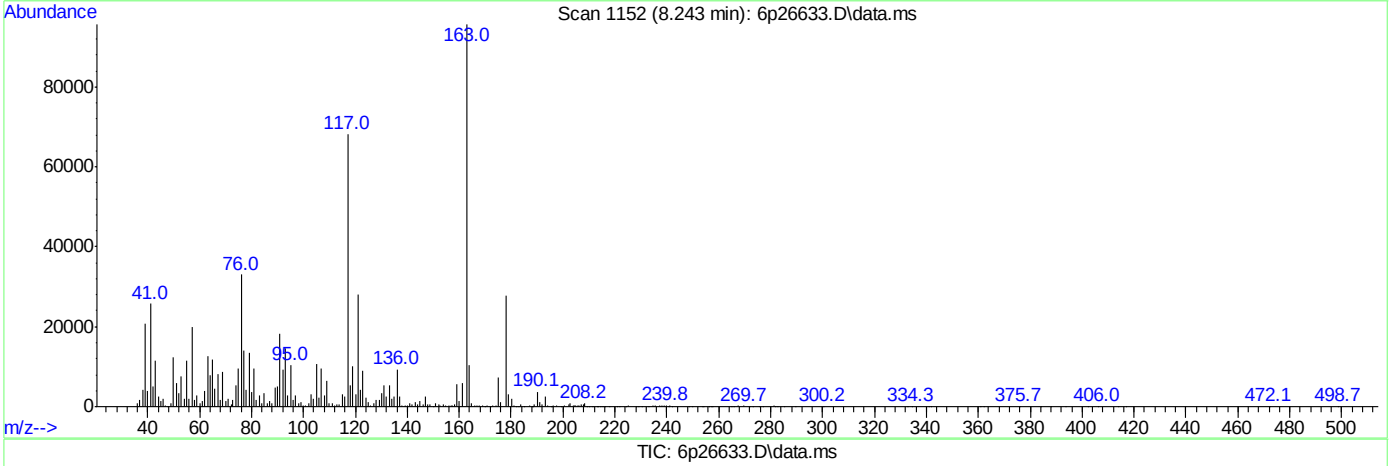
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





TIC: 6p26633.D\data.ms

(61) 4-Nitrophenol (t)

8.243min (-0.022) 0.97ppm

response 5027

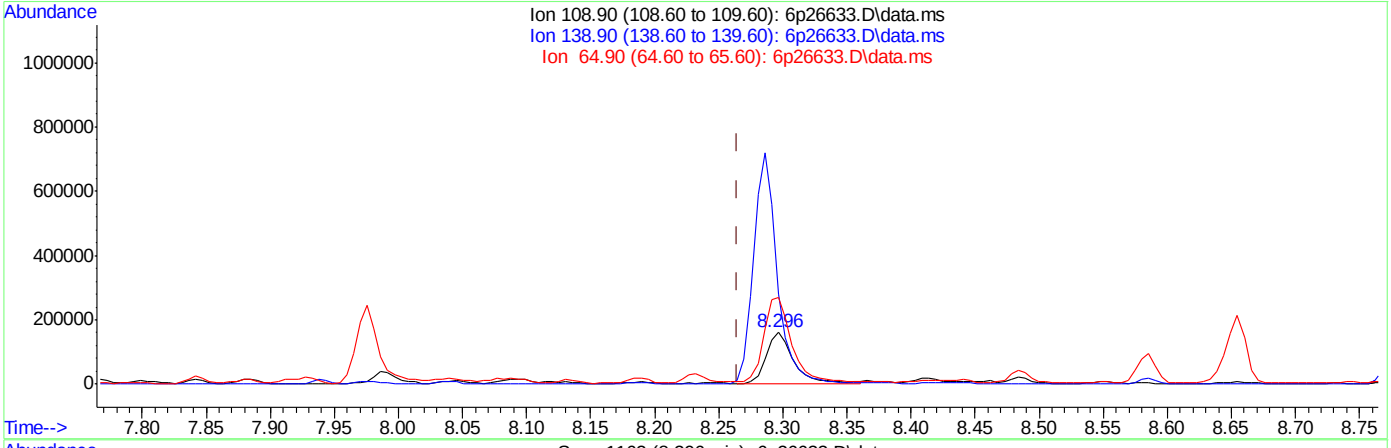
Ion	Exp%	Act%
108.90	100	100
138.90	492.20	0.00#
64.90	160.30	151.38
0.00	0.00	0.00

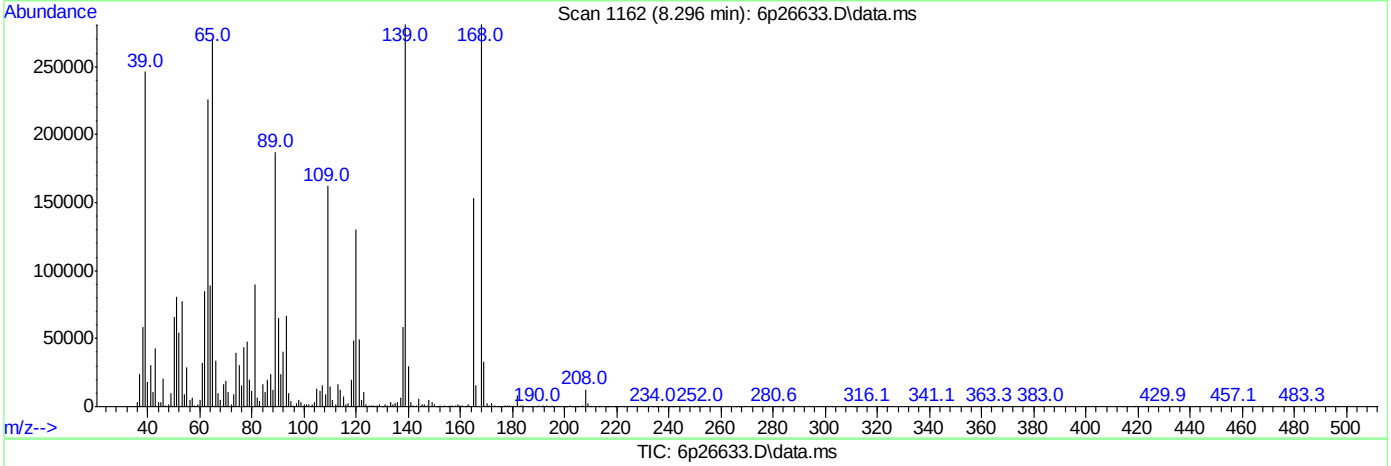
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:34:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration





TIC: 6p26633.D\data.ms

(61) 4-Nitrophenol (t)

8.296min (+0.032) 47.09ppm m

response 244305

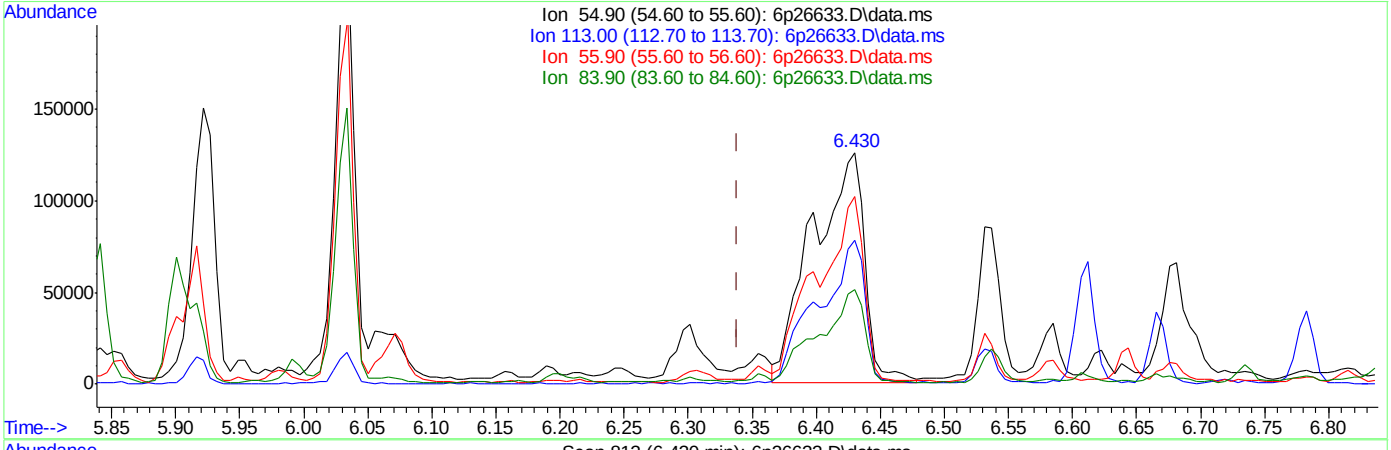
Ion	Exp%	Act%
108.90	100	100
138.90	492.20	173.21#
64.90	160.30	166.39
0.00	0.00	0.00

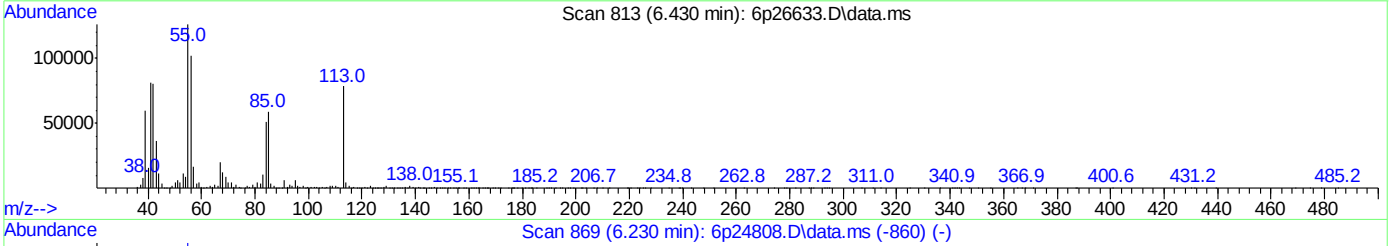
SGS ACCUTEST JC21229

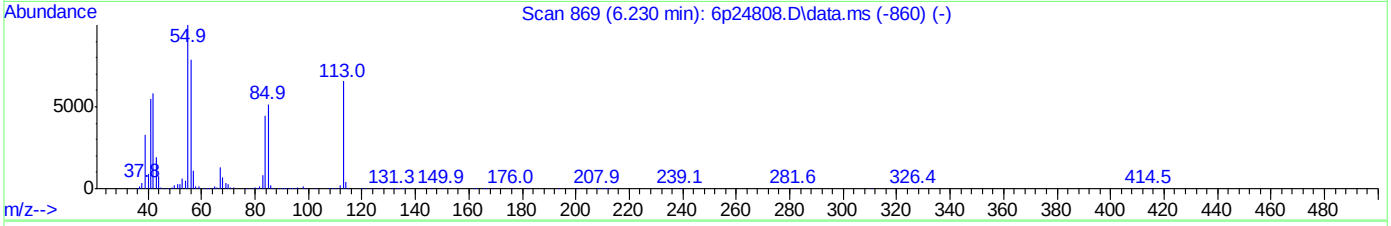
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26633.D
Acq On : 3 Jun 2016 3:07 am
Operator : seanb1
Sample : op94419-msd
Misc : op94419,e6p1236,31.7
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:38:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri Jun 03 10:34:03 2016
QLast Update : Fri Jun 03 10:34:03 2016
Response via : Initial Calibration







TIC: 6p26633.D\data.ms

(41) Caprolactam (t)

6.430min (+0.091) 39.55ppm m

response 353172

Ion	Exp%	Act%
54.90	100	100
113.00	68.30	62.25
55.90	78.30	81.00
83.90	43.10	40.79

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/08/16 11:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62048.D
Acq On : 8 Jun 2016 12:31 am
Operator : ashleyd
Sample : op94328a-ms
Misc : op94328a,e3m2924,500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 08:39:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.159	150	452525	4.00	ppm	0.04
14) Fluorene-d10	13.167	176	726458	4.00	ppm	0.06
21) Fluoranthene-d10	17.418	212	1120301	4.00	ppm	0.06
31) Benzo(a)pyrene-d12	22.037	264	795931	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.198	112	1540274	26.62	ppm	0.01
Spiked Amount 50.000			Recovery = 53.24%			
4) Phenol-d5	5.835	99	2157912	23.16	ppm	0.05
Spiked Amount 50.000			Recovery = 46.32%			
7) Nitrobenzene-d5	7.306	82	2312496	29.41	ppm	0.00
Spiked Amount 50.000			Recovery = 58.82%			
15) 2-Fluorobiphenyl	10.846	172	5977145	33.27	ppm	0.03
Spiked Amount 50.000			Recovery = 66.54%			
20) 2,4,6-Tribromophenol	13.733	330	584865	33.15	ppm	0.06
Spiked Amount 50.000			Recovery = 66.30%			
28) Terphenyl-d14	18.236	244	5630669	36.00	ppm	0.07
Spiked Amount 50.000			Recovery = 72.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	9386	0.37	ppm	92
5) Phenol	5.859	94	353200	3.62	ppm #	88
6) bis(2-Chloroethyl)ether	5.871	93	61834	0.88	ppm	84
8) Nitrobenzene	7.325	77	90773	1.12	ppm	73
9) Naphthalene	8.681	128	280320	1.10	ppm	81
10) Hexachlorobutadiene	8.944	225	20788	0.52	ppm	99
11) 2-Methylnaphthalene	10.057	141	118302	0.89	ppm #	41
13) Hexachlorocyclopentadiene	10.385	237	2110	0.29	ppm #	63
16) Acenaphthylene	11.820	152	213408	0.92	ppm	94
17) Acenaphthene	12.176	153	596292	3.87	ppm	91
18) 4,6-dinitro-2-methylph...	13.450	198	146078	6.84	ppm	77
19) Fluorene	13.224	166	504054	2.68	ppm	97
22) Hexachlorobenzene	14.310	284	30369	0.61	ppm	98
23) Pentachlorophenol	14.790	266	158717	7.31	ppm	91
24) Phenanthrene	15.130	178	236171	0.90	ppm	93
25) Anthracene	15.238	178	272757m	1.15	ppm	
26) Fluoranthene	17.433	202	316818	1.00	ppm	94
27) Pyrene	17.835	202	321845	1.13	ppm	92
29) Benzo[a]anthracene	19.936	228	214950	0.85	ppm	89
30) Chrysene	19.998	228	206356	0.79	ppm	93
32) Benzo[b]fluoranthene	21.620	252	200905	0.81	ppm	93
33) Benzo[k]fluoranthene	21.651	252	183586	0.85	ppm	90
34) Benzo[a]pyrene	22.068	252	172962	0.78	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.525	276	197784	0.76	ppm	93
36) Dibenz[a,h]anthracene	23.562	278	161093	0.78	ppm	85
37) Benzo[g,h,i]perylene	23.863	276	165300	0.74	ppm	97

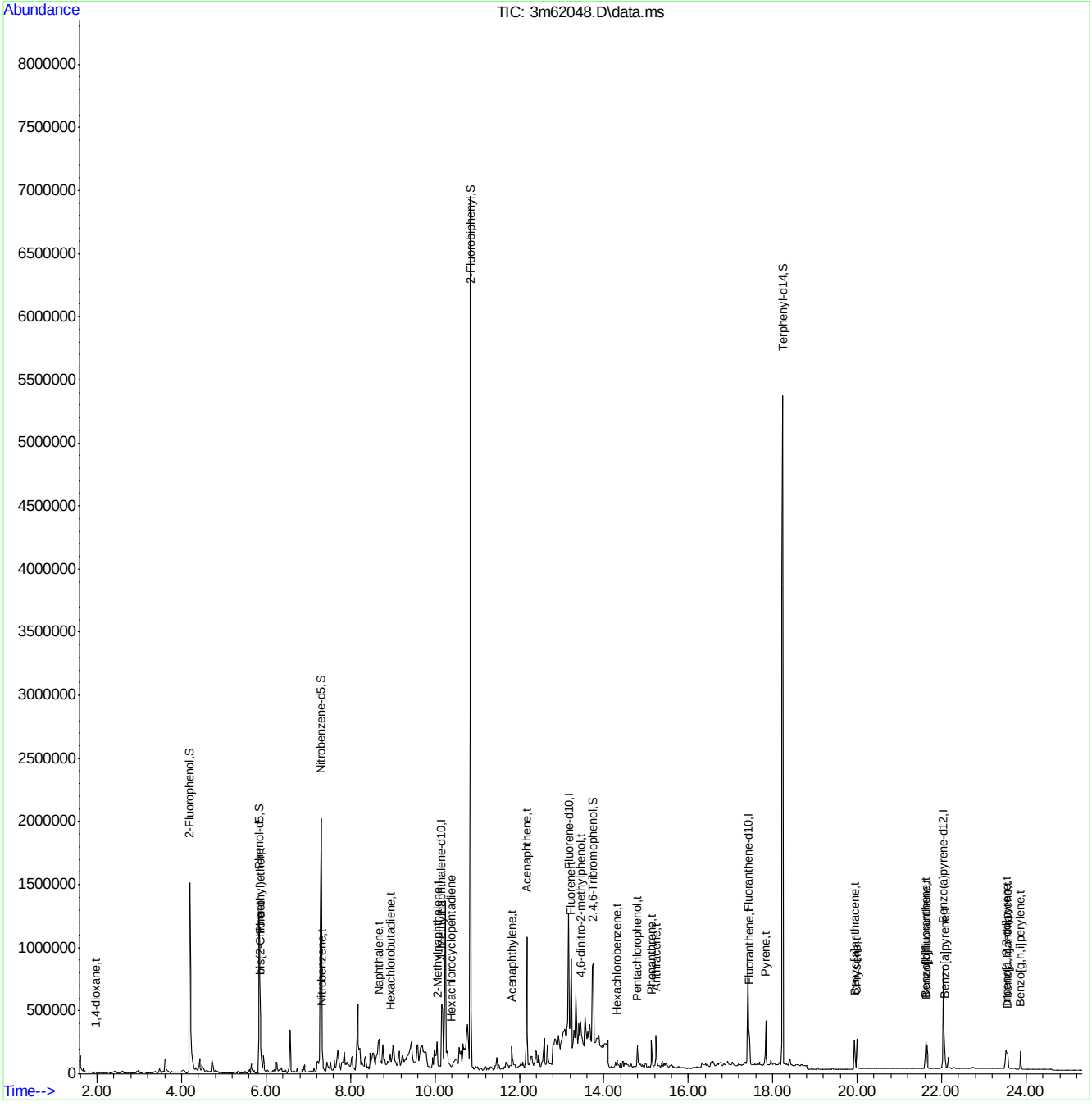
(#) = qualifier out of range (m) = manual integration (+) = signals summed

M3M2887SIM.M Wed Jun 08 08:40:02 2016 RPT1 Page: 1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62048.D
Acq On : 8 Jun 2016 12:31 am
Operator : ashleyd
Sample : op94328a-ms
Misc : op94328a,e3m2924,500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 08:39:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

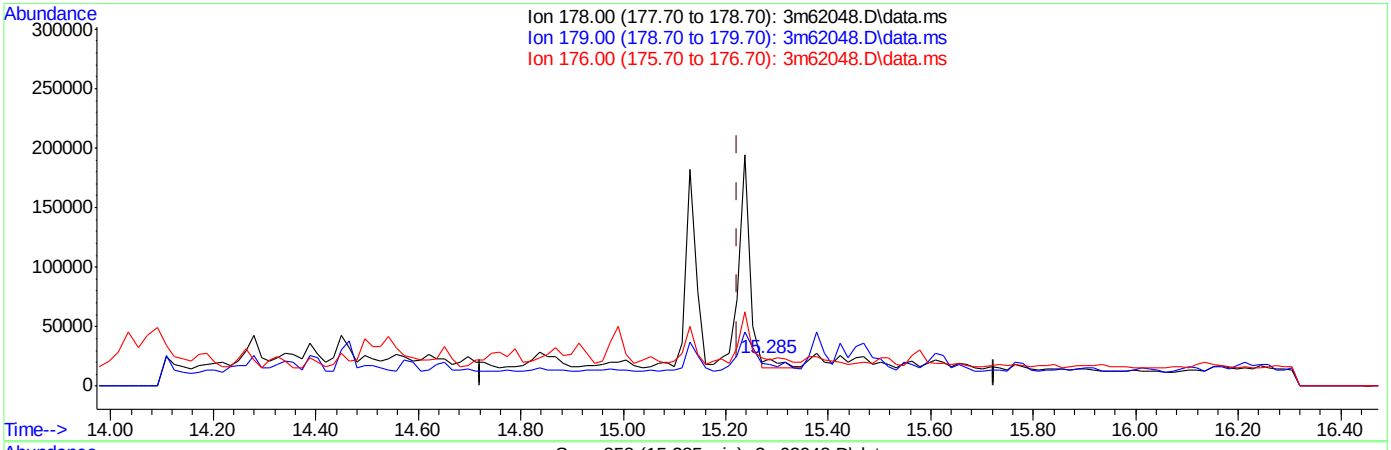
Sample Number:	OP94328A-MS	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62048.D	**Analyst approved:**	06/08/16 08:54 Linsey Kirschmann
Injection Time:	06/08/16 00:31	**Supervisor approved:**	06/08/16 11:08 Nina Pandya

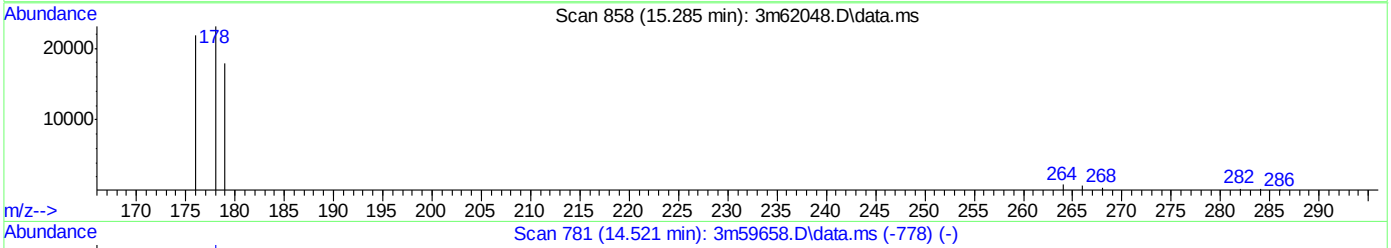
Parameter	CAS	Sig#	R.T. (min.)	Reason
Anthracene	120-12-7		15.24	Poor instrument integration

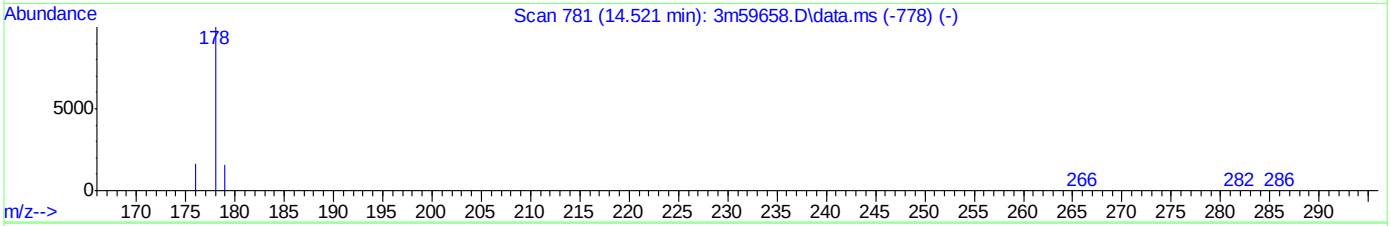
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62048.D
Acq On : 8 Jun 2016 12:31 am
Operator : ashleyd
Sample : op94328a-ms
Misc : op94328a,e3m2924,500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 08:39:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration







TIC: 3m62048.D\data.ms

(25) Anthracene (t)

15.285min (+0.062) 0.07ppm

response 17200

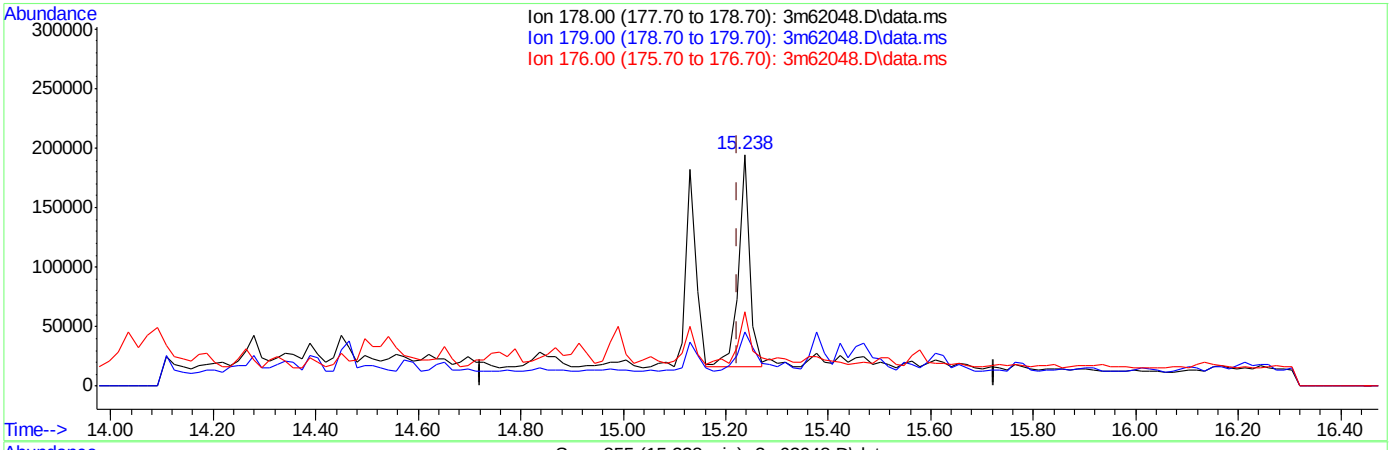
Ion	Exp%	Act%
178.00	100	100
179.00	13.10	18.02
176.00	20.20	2.25
0.00	0.00	0.00

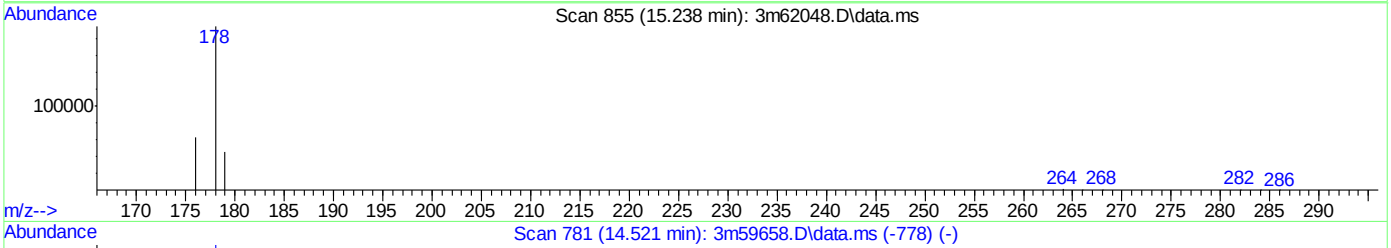
SGS ACCUTEST JC21229

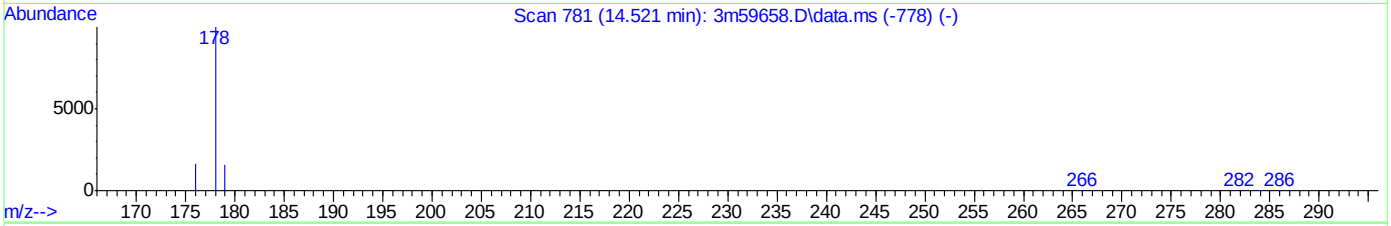
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62048.D
Acq On : 8 Jun 2016 12:31 am
Operator : ashleyd
Sample : op94328a-ms
Misc : op94328a,e3m2924,500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 08:39:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration







TIC: 3m62048.D\data.ms

(25) Anthracene (t)

15.238min (+0.015) 1.15ppm m

response 272757

Ion	Exp%	Act%
178.00	100	100
179.00	13.10	23.20
176.00	20.20	32.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62049.D
Acq On : 8 Jun 2016 1:03 am
Operator : ashleyd
Sample : op94328a-msd
Misc : op94328a,e3m2924,500
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 08 08:40:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

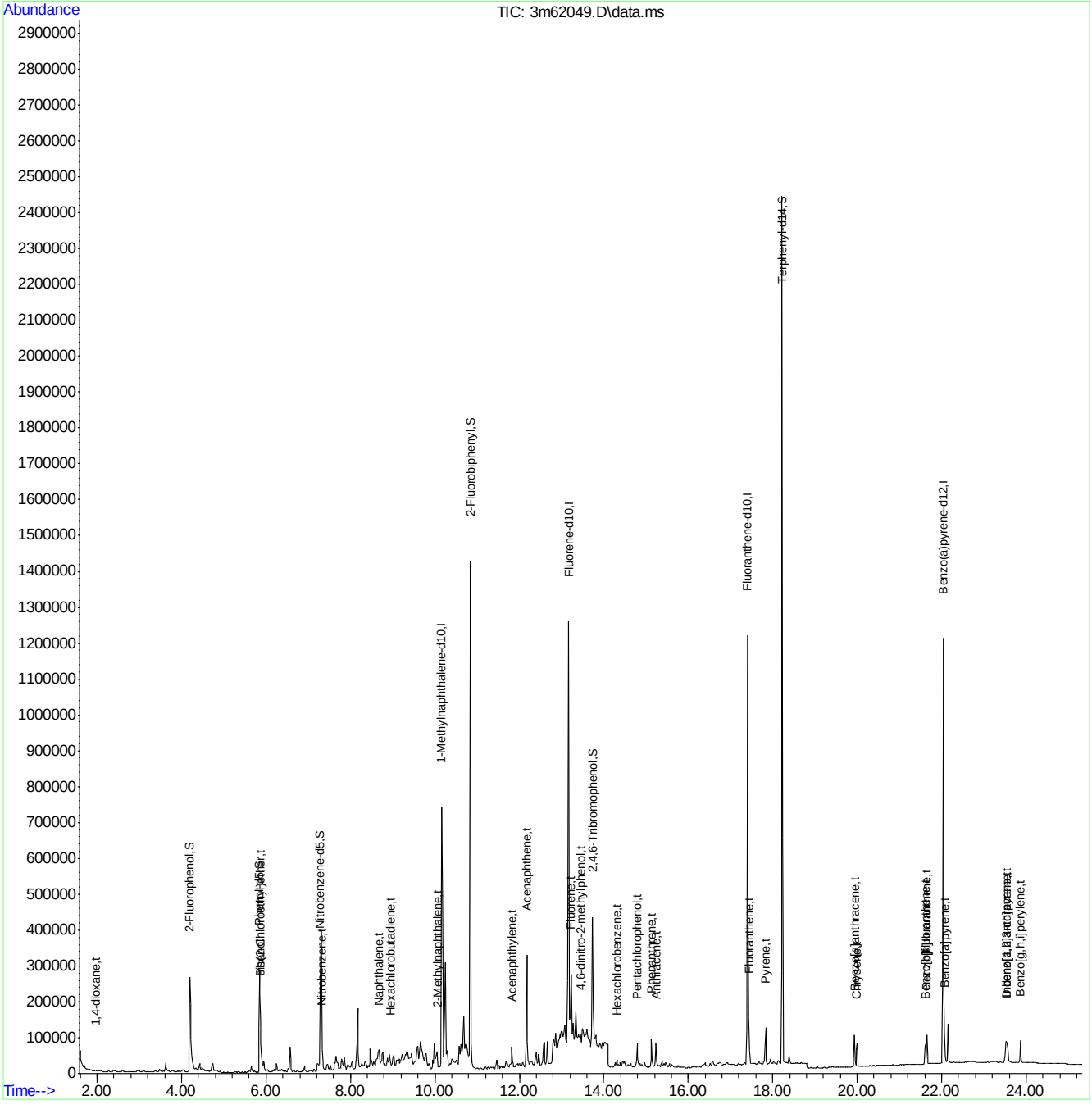
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.159	150	541196	4.00	ppm		0.04
14) Fluorene-d10	13.168	176	857281	4.00	ppm		0.06
21) Fluoranthene-d10	17.402	212	1356623	4.00	ppm		0.05
31) Benzo(a)pyrene-d12	22.037	264	1079232	4.00	ppm		0.06
System Monitoring Compounds							
3) 2-Fluorophenol	4.198	112	320249	4.63	ppm		0.01
Spiked Amount 50.000			Recovery	=	9.26%		
4) Phenol-d5	5.847	99	497359	4.46	ppm		0.06
Spiked Amount 50.000			Recovery	=	8.92%		
7) Nitrobenzene-d5	7.287	82	511203	5.44	ppm		0.00
Spiked Amount 50.000			Recovery	=	10.88%		
15) 2-Fluorobiphenyl	10.847	172	1565676	7.39	ppm		0.03
Spiked Amount 50.000			Recovery	=	14.78%		
20) 2,4,6-Tribromophenol	13.733	330	217629	10.45	ppm		0.06
Spiked Amount 50.000			Recovery	=	20.90%		
28) Terphenyl-d14	18.221	244	1989926	10.51	ppm		0.05
Spiked Amount 50.000			Recovery	=	21.02%		
Target Compounds							Qvalue
2) 1,4-dioxane	1.958	88	3534	0.11	ppm		85
5) Phenol	5.871	94	81317	0.70	ppm	#	77
6) bis(2-Chloroethyl)ether	5.871	93	12721	0.15	ppm		85
8) Nitrobenzene	7.325	77	20544	0.21	ppm		64
9) Naphthalene	8.681	128	66005	0.22	ppm		81
10) Hexachlorobutadiene	8.944	225	4803	0.10	ppm		99
11) 2-Methylnaphthalene	10.057	141	31111	0.19	ppm	#	47
16) Acenaphthylene	11.820	152	64676	0.24	ppm		89
17) Acenaphthene	12.176	153	165426	0.91	ppm		86
18) 4,6-dinitro-2-methylph...	13.450	198	47480	2.58	ppm		72
19) Fluorene	13.224	166	160888	0.72	ppm		98
22) Hexachlorobenzene	14.311	284	10499	0.17	ppm		96
23) Pentachlorophenol	14.790	266	51220	2.38	ppm		96
24) Phenanthrene	15.130	178	82687	0.26	ppm		96
25) Anthracene	15.238	178	87946	0.31	ppm		92
26) Fluoranthene	17.433	202	111450	0.29	ppm		98
27) Pyrene	17.835	202	110623	0.32	ppm		85
29) Benzo[a]anthracene	19.936	228	77876	0.25	ppm		94
30) Chrysene	19.998	228	71916	0.23	ppm		88
32) Benzo[b]fluoranthene	21.620	252	75853	0.23	ppm		89
33) Benzo[k]fluoranthene	21.651	252	65746	0.22	ppm		95
34) Benzo[a]pyrene	22.068	252	71542	0.24	ppm		92
35) Indeno[1,2,3-cd]pyrene	23.525	276	79554	0.22	ppm		92
36) Dibenz[a,h]anthracene	23.544	278	64012	0.23	ppm		98
37) Benzo[g,h,i]perylene	23.863	276	68326	0.22	ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62049.D
Acq On : 8 Jun 2016 1:03 am
Operator : ashleyd
Sample : op94328a-msd
Misc : op94328a,e3m2924,500
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 08 08:40:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration



M3M2887SIM.M Wed Jun 08 08:40:32 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16865.D
Acq On : 13 Jun 2016 11:14 am
Operator : linseyk
Sample : op94419a-ms
Misc : op94419a,e4p896,30.2
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 11:51:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.717	150	188216	4.00	ppm	-0.05
13) Fluorene-d10	10.661	176	185570	4.00	ppm	-0.05
23) Fluoranthene-d10	14.867	212	311931	4.00	ppm	-0.03
33) Benzo(a)pyrene-d12	19.490	264	193261	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	2.588	112	620957	24.09	ppm	-0.07
Spiked Amount 50.000			Recovery = 48.18%			
4) Phenol-d5	3.716	99	1138243	26.14	ppm	-0.03
Spiked Amount 50.000			Recovery = 52.28%			
7) Nitrobenzene-d5	5.026	82	885378	27.86	ppm	-0.04
Spiked Amount 50.000			Recovery = 55.72%			
14) 2-Fluorobiphenyl	8.381	172	1879324	37.72	ppm	-0.05
Spiked Amount 50.000			Recovery = 75.44%			
22) 2,4,6-Tribromophenol	11.192	330	241329	47.07	ppm	-0.04
Spiked Amount 50.000			Recovery = 94.14%			
30) Terphenyl-d14	15.710	244	1327660	33.97	ppm	-0.05
Spiked Amount 50.000			Recovery = 67.94%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.408	88	2965	0.20	ppm #	37
5) Phenol	3.733	94	147278	3.04	ppm #	87
6) bis(2-Chloroethyl)ether	3.819	93	16221	0.44	ppm #	25
8) Naphthalene	6.287	128	62057	0.50	ppm	96
9) Hexachlorobutadiene	6.593	225	10844	0.51	ppm	96
10) 2-Methylnaphthalene	7.602	141	37118	0.56	ppm	74
12) Hexachlorocyclopentadiene	7.946	237	2690	0.11	ppm	79
15) Acenaphthylene	9.321	152	53119	0.74	ppm	92
16) Acenaphthene	9.665	153	43147	1.11	ppm #	69
17) Dibenzofuran	10.031	168	51964	0.77	ppm	66
18) Fluorene	10.686	166	37843	0.79	ppm #	55
19) 4,6-dinitro-2-methylph...	10.909	198	13864	3.75	ppm	89
20) n-nitrosodiphenylamine	11.033	169	32914	1.16	ppm	87
21) 1,2-Diphenylhydrazine	11.083	77	27966	0.58	ppm	81
24) Hexachlorobenzene	11.786	284	11917	0.65	ppm	95
25) Pentachlorophenol	12.234	266	22741	3.41	ppm	99
26) Phenanthrene	12.578	178	60709	0.72	ppm	97
27) Anthracene	12.664	178	61413	0.75	ppm	89
28) Fluoranthene	14.884	202	118862	1.22	ppm	99
29) Pyrene	15.280	202	102118	1.14	ppm	98
31) Benzo[a]anthracene	17.412	228	48518	0.76	ppm	91
32) Chrysene	17.470	228	52829	0.69	ppm	93
34) Benzo[b]fluoranthene	19.064	252	44950	0.66	ppm	92
35) Benzo[k]fluoranthene	19.110	252	46952	0.79	ppm	92
36) Benzo[a]pyrene	19.513	252	41465	0.67	ppm	95
37) Indeno[1,2,3-cd]pyrene	20.936	276	46154	0.67	ppm	98
38) Dibenz[a,h]anthracene	20.975	278	35879	0.64	ppm	98
39) Benzo[g,h,i]perylene	21.225	276	42122	0.67	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16865.D
Acq On : 13 Jun 2016 11:14 am
Operator : linseyk
Sample : op94419a-ms
Misc : op94419a,e4p896,30.2
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 11:51:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

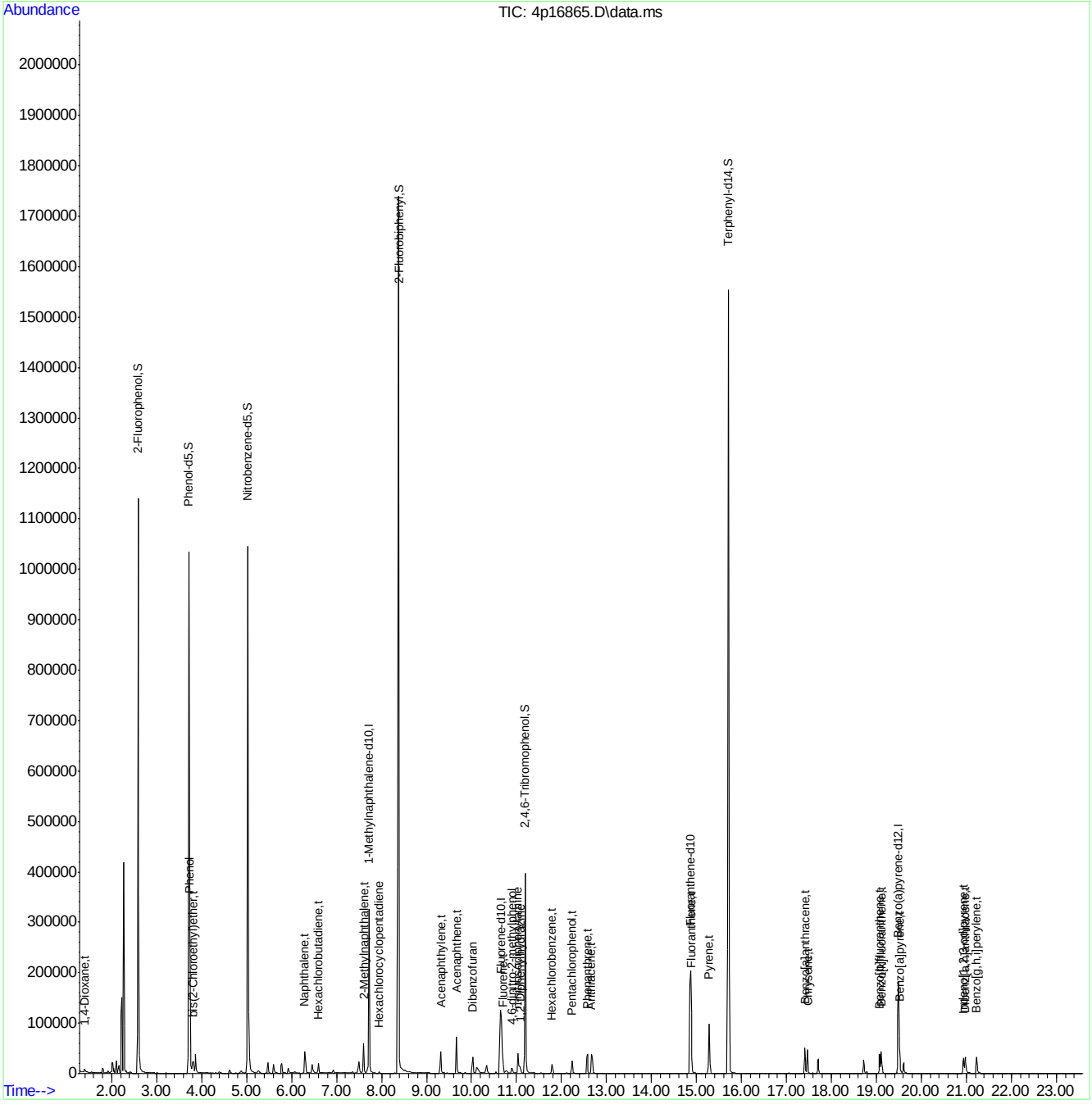
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16865.D
Acq On : 13 Jun 2016 11:14 am
Operator : linseyk
Sample : op94419a-ms
Misc : op94419a,e4p896,30.2
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 13 11:51:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16866.D
Acq On : 13 Jun 2016 11:44 am
Operator : linseyk
Sample : op94419a-msd
Misc : op94419a,e4p896,30.2
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 12:31:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.717	150	212156	4.00	ppm	-0.05
13) Fluorene-d10	10.661	176	199846	4.00	ppm	-0.05
23) Fluoranthene-d10	14.867	212	344251	4.00	ppm	-0.03
33) Benzo(a)pyrene-d12	19.490	264	216592	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	2.588	112	860356	29.61	ppm	-0.07
Spiked Amount 50.000			Recovery = 59.22%			
4) Phenol-d5	3.716	99	1492449	30.41	ppm	-0.03
Spiked Amount 50.000			Recovery = 60.82%			
7) Nitrobenzene-d5	5.026	82	1170761	32.69	ppm	-0.04
Spiked Amount 50.000			Recovery = 65.38%			
14) 2-Fluorobiphenyl	8.381	172	2562768	47.76	ppm	-0.05
Spiked Amount 50.000			Recovery = 95.52%			
22) 2,4,6-Tribromophenol	11.192	330	333659	60.42	ppm	-0.04
Spiked Amount 50.000			Recovery = 120.84%			
30) Terphenyl-d14	15.710	244	1715445	39.77	ppm	-0.05
Spiked Amount 50.000			Recovery = 79.54%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.408	88	3966	0.24	ppm #	31
5) Phenol	3.733	94	196885	3.61	ppm #	82
6) bis(2-Chloroethyl)ether	3.819	93	22120	0.53	ppm #	23
8) Naphthalene	6.287	128	85793	0.61	ppm	96
9) Hexachlorobutadiene	6.593	225	14649	0.61	ppm	95
10) 2-Methylnaphthalene	7.602	141	50962	0.68	ppm	76
12) Hexachlorocyclopentadiene	7.946	237	4982	0.26	ppm	83
15) Acenaphthylene	9.321	152	76412	0.99	ppm	92
16) Acenaphthene	9.665	153	58316	1.39	ppm #	70
17) Dibenzofuran	10.031	168	71114	0.98	ppm	66
18) Fluorene	10.686	166	50477	0.98	ppm #	50
19) 4,6-dinitro-2-methylph...	10.909	198	21893	5.11	ppm	87
20) n-nitrosodiphenylamine	11.033	169	44920	1.48	ppm	89
21) 1,2-Diphenylhydrazine	11.083	77	40473	0.78	ppm	81
24) Hexachlorobenzene	11.786	284	16622	0.82	ppm	99
25) Pentachlorophenol	12.234	266	36745	4.87	ppm	99
26) Phenanthrene	12.578	178	83057	0.89	ppm	98
27) Anthracene	12.664	178	85388	0.94	ppm	88
28) Fluoranthene	14.884	202	171516	1.59	ppm	98
29) Pyrene	15.280	202	150522	1.52	ppm	98
31) Benzo[a]anthracene	17.412	228	69588	0.99	ppm	94
32) Chrysene	17.470	228	72641	0.85	ppm	95
34) Benzo[b]fluoranthene	19.076	252	63178	0.82	ppm	97
35) Benzo[k]fluoranthene	19.110	252	67357	1.01	ppm	96
36) Benzo[a]pyrene	19.513	252	58355	0.84	ppm	92
37) Indeno[1,2,3-cd]pyrene	20.936	276	63358	0.82	ppm	96
38) Dibenz[a,h]anthracene	20.975	278	49486	0.79	ppm	96
39) Benzo[g,h,i]perylene	21.234	276	57849	0.83	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16866.D
Acq On : 13 Jun 2016 11:44 am
Operator : linseyk
Sample : op94419a-msd
Misc : op94419a,e4p896,30.2
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 12:31:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

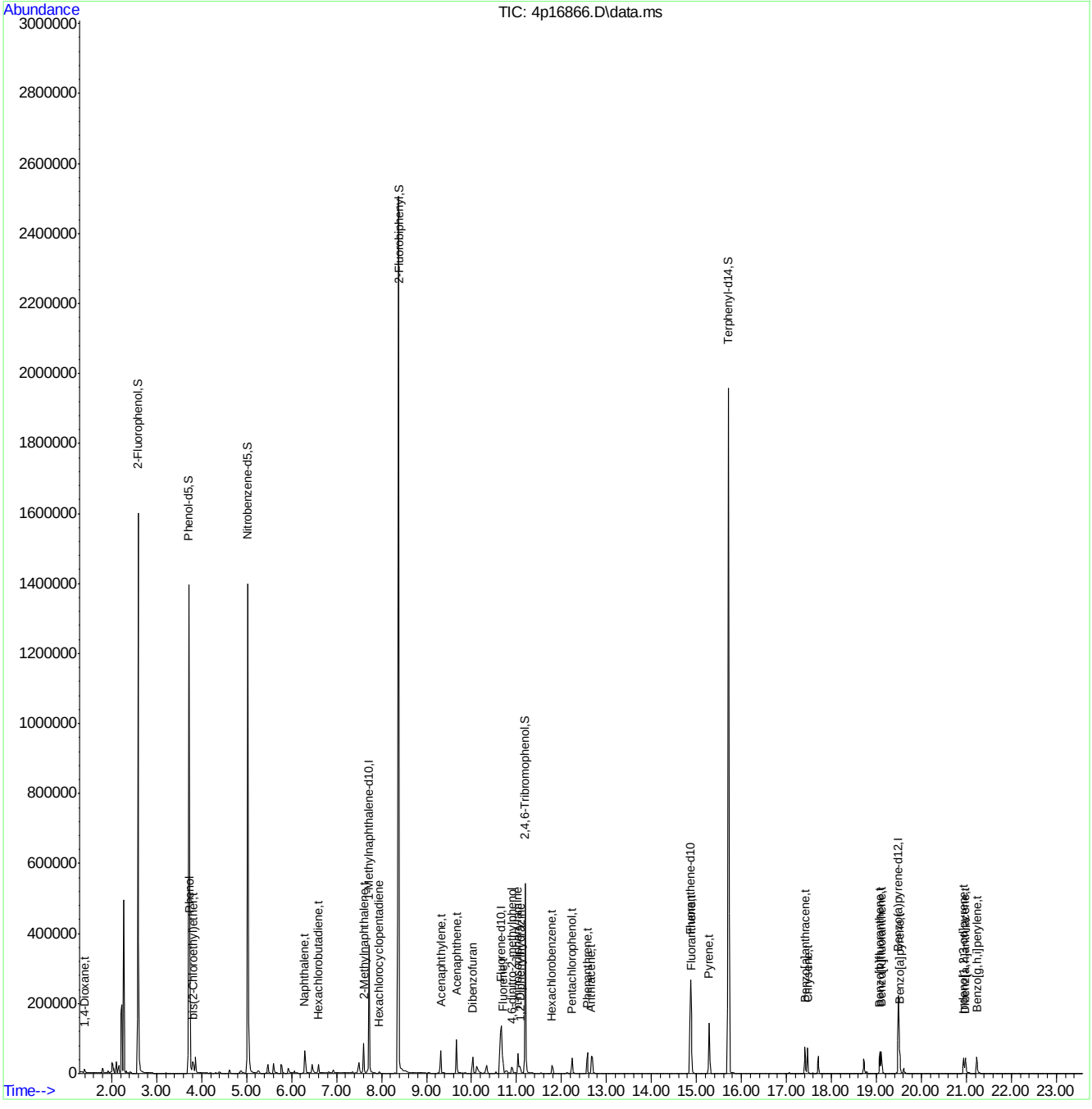
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16866.D
Acq On : 13 Jun 2016 11:44 am
Operator : linseyk
Sample : op94419a-msd
Misc : op94419a,e4p896,30.2
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 13 12:31:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 12:14:57 2016
Response via : Initial Calibration

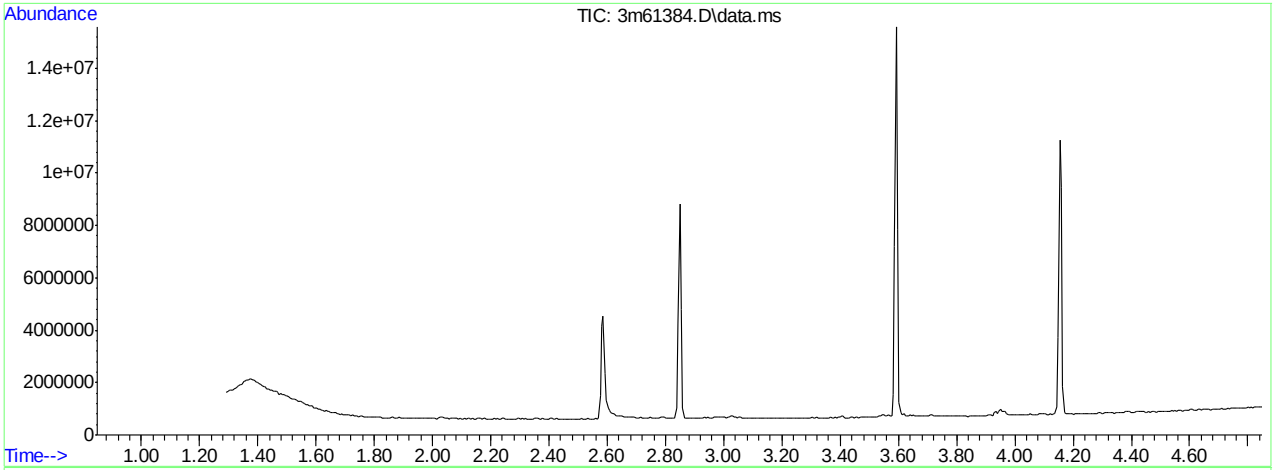


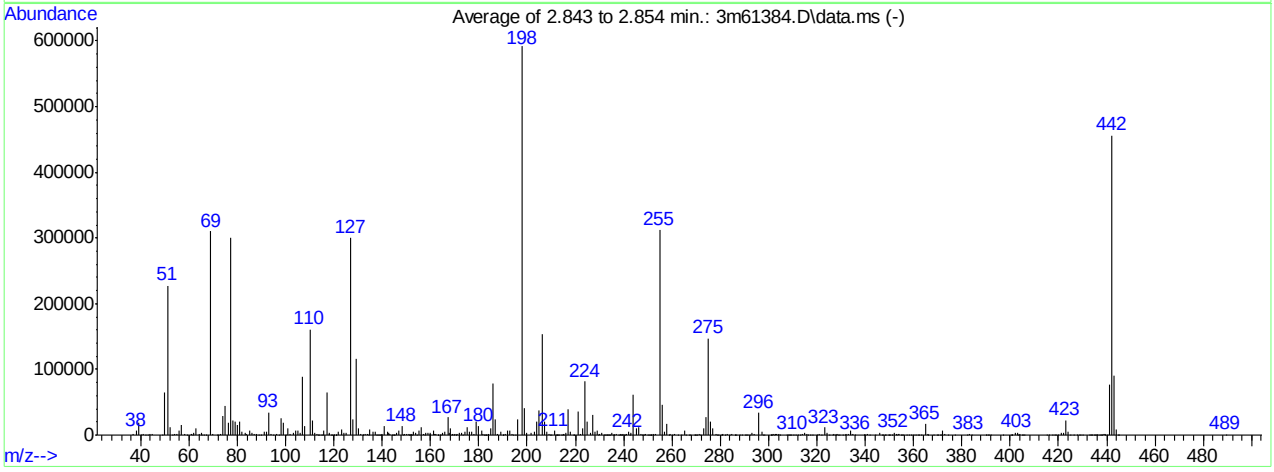
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E3M2887\3m61384.D Vial: 1
Acq On : 17 May 2016 8:56 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op99506a,e3m2887 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 291, 292, 293; Background Corrected with Scan 287

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.4	227219	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.4	310061	PASS
70	69	0.00	2	0.5	1471	PASS
127	198	40	60	50.8	300411	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	591701	PASS
199	198	5	9	6.9	40848	PASS
275	198	10	30	24.9	147552	PASS
365	198	1	100	2.8	16496	PASS
441	443	0.10	100	84.8	77365	PASS
442	198	40	100	77.0	455819	PASS
443	442	17	23	20.0	91195	PASS

3m61384.D DFTPP3M.M Wed May 18 09:43:06 2016 RPT1

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	2615	51.00	227219	61.40	554	72.00	196
38.05	6223	52.05	11210	61.95	3838	73.00	2099
39.10	19192	52.95	443	63.05	9825	74.00	28547
40.00	631	54.05	1029	64.00	1768	75.00	44924
41.05	2257	55.05	1282	65.00	3226	76.15	18705
42.00	538	56.00	7481	65.20	854	77.00	300798
43.00	311	57.00	15541	66.15	773	78.00	21517
43.80	1146	58.00	1260	67.10	773	78.95	21256
44.90	1295	59.30	389	69.00	310061	80.00	15078
49.00	107	60.90	1960	70.00	1471	81.00	19872
50.00	64272	61.10	1981	71.60	402	81.90	5263

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.10	4212	93.95	2087	104.95	7503	115.15	308
83.95	1928	94.80	514	106.00	3189	115.95	6170
85.05	6324	96.05	2007	107.00	89066	117.00	64083
85.95	4005	97.00	783	107.90	14158	117.90	2814
86.95	1240	97.95	25259	110.00	161368	118.10	2491
87.90	2247	99.00	19528	111.00	22314	118.95	751
88.95	119	100.05	828	112.05	3469	119.20	234
89.90	536	101.05	10186	112.95	1088	119.80	376
91.05	4416	101.85	1014	113.60	148	120.00	334
92.10	5085	103.05	4052	114.10	141	120.70	334
93.00	34869	103.95	7205	114.90	461	121.05	122

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
121.95	5432	133.05	1297	139.95	998	148.05	14148
122.95	8842	134.00	1832	140.95	13243	148.80	462
123.95	4131	134.20	592	142.00	5297	149.05	2486
125.05	4265	135.00	8564	142.90	2726	150.05	1185
127.00	300411	136.00	4696	143.05	1142	150.90	55
127.95	23615	137.00	4366	144.05	569	151.25	1783
129.00	116983	137.70	899	144.50	301	151.70	350
129.95	10774	138.10	567	144.90	343	151.80	413
130.90	1863	138.60	511	145.10	467	151.95	1099
131.95	318	138.95	748	146.05	3481	152.30	881
132.20	652	139.60	318	146.95	7336	152.95	5418

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	2784	161.75	1422	168.05	9787	175.00	11230
154.10	916	162.15	2071	168.80	439	176.00	4876
155.05	6785	162.90	325	169.05	1803	177.00	6014
156.05	11649	163.20	591	169.60	280	177.80	1610
156.90	2345	164.00	837	169.90	1047	179.00	19838
157.30	780	164.20	777	170.30	458	180.00	13702
157.95	3408	164.80	1795	171.05	1957	181.05	6284
159.00	2646	165.00	3386	172.05	3023	181.90	1013
159.80	1089	166.00	4502	173.05	3161	182.20	498
160.05	3780	167.05	26922	173.30	733	182.60	508
161.05	7479	167.85	2626	174.05	5377	182.90	898

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.10	237	192.95	7610	205.05	37623	212.90	840
184.00	1523	193.85	1384	206.05	153891	213.15	74
185.00	10118	194.05	50	207.00	20073	213.95	411
186.00	79198	195.20	426	208.05	4388	214.70	301

187.00	24031	196.05	23739	208.95	2026	215.00	1230
187.90	2581	198.00	591701	209.50	297	215.20	397
189.00	4882	199.00	40848	210.20	473	215.90	2650
189.90	308	199.95	4090	211.15	6321	217.00	38520
190.05	561	201.55	3188	211.80	649	218.05	5158
191.00	2171	203.00	4472	212.10	598	219.10	495
191.90	6721	204.00	21253	212.40	149	219.50	147

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.05	36245	230.95	2756	235.90	580	241.00	2388
222.10	1599	231.80	174	236.15	841	242.00	4898
223.00	9575	232.20	189	237.00	2486	242.70	687
224.00	81398	232.95	442	237.70	112	243.15	3125
225.05	20442	233.10	211	238.10	471	244.10	60875
226.05	2828	233.30	526	238.60	211	245.10	10114
227.00	31477	233.60	144	238.90	1197	246.05	11883
228.00	4612	233.90	826	239.20	344	247.05	2113
228.95	6422	234.15	894	239.85	999	247.80	121
229.70	463	235.00	3031	240.10	346	248.05	78
230.00	1329	235.70	189	240.50	398	248.30	355

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.95	1832	257.00	4624	267.60	297	277.05	11132
249.85	289	257.95	17795	269.20	156	278.05	1639
250.25	388	258.80	496	269.60	230	278.90	149
250.95	478	259.05	2317	269.90	396	279.15	536
251.10	387	259.95	754	270.30	144	280.40	102
251.30	353	260.95	951	271.05	1187	280.60	196
252.00	289	262.25	294	271.80	158	280.90	1087
252.25	1136	263.90	233	273.05	10146	281.95	516
252.95	2596	265.00	6308	274.05	28204	283.05	1177
255.00	312256	265.85	753	275.05	147552	283.90	542
256.00	46237	267.05	666	276.05	19812	284.95	2281

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.90	102	296.00	33822	303.80	196	312.95	321
286.20	180	297.05	4702	304.05	1226	314.15	2063
286.80	124	297.90	550	304.90	383	315.05	3393
288.00	221	298.20	125	307.50	96	315.95	1559
288.75	406	300.90	214	308.00	106	316.20	522
290.15	780	301.15	428	308.25	382	317.10	439
290.85	499	301.60	268	308.70	168	318.15	235
291.20	120	302.05	950	309.20	116	319.90	354
292.10	291	302.30	81	310.10	810	321.00	1333
293.05	2770	303.00	2570	311.30	113	321.75	680
294.15	943	303.20	1209	311.90	109	323.10	11317

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.15	2738	332.05	1400	344.20	98	352.90	145
324.95	281	332.95	1735	346.05	2624	353.05	2557
326.35	385	333.90	1008	346.90	82	353.85	1705
327.05	2181	334.05	6750	347.20	359	354.10	1700
327.60	358	335.05	2609	348.20	187	354.90	567
327.90	177	335.85	220	348.40	296	355.20	673
328.15	1084	339.35	193	349.50	132	355.70	149
328.90	96	339.60	167	349.80	158	357.00	97
329.30	249	340.00	230	350.10	112	358.00	291
330.80	75	341.00	1755	351.10	416	359.15	280
331.60	186	341.90	513	352.00	3817	359.80	76

Average of 2.843 to 2.854 min.: 3m61384.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.90	99	371.30	280	391.20	223	404.80	76
361.70	104	372.05	6319	392.05	436	405.20	81
362.10	76	373.00	1598	397.05	286	406.10	197
363.35	373	374.10	76	400.50	345	414.95	240
365.00	16496	377.00	867	400.80	230	416.10	261
365.90	312	382.20	157	401.00	237	417.60	98
366.05	2056	383.00	1450	402.05	2797	418.50	115
368.50	183	383.95	427	402.90	168	419.10	119
369.60	198	389.90	482	403.10	3676	419.80	177
370.20	528	390.25	601	403.50	286	421.05	4154
371.00	457	390.80	324	404.05	1200	422.05	3704

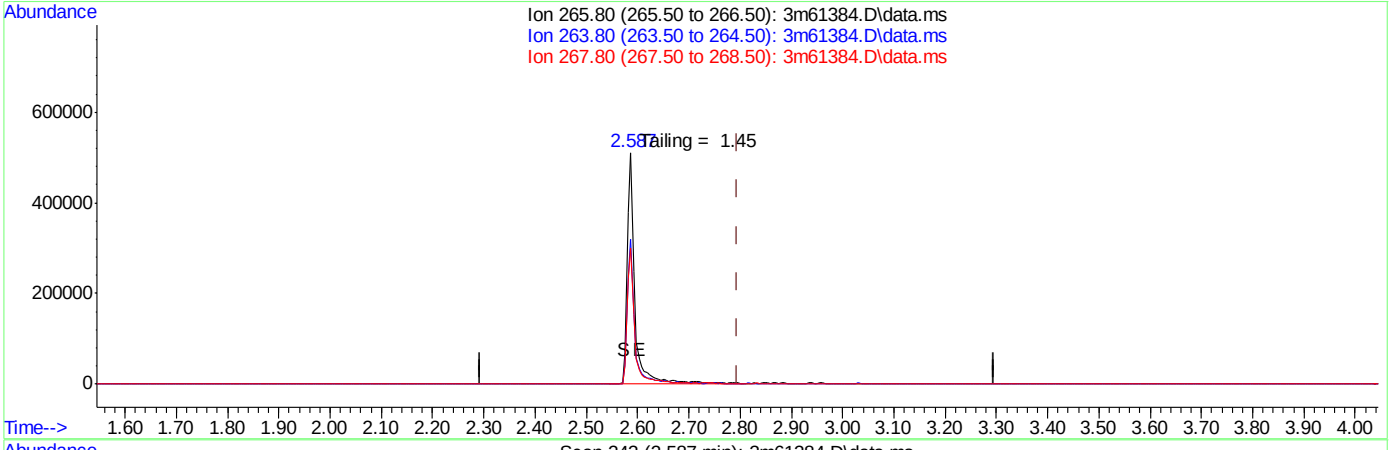
Average of 2.843 to 2.854 min.: 3m61384.D\data.ms
dftpp
Modified:subtracted

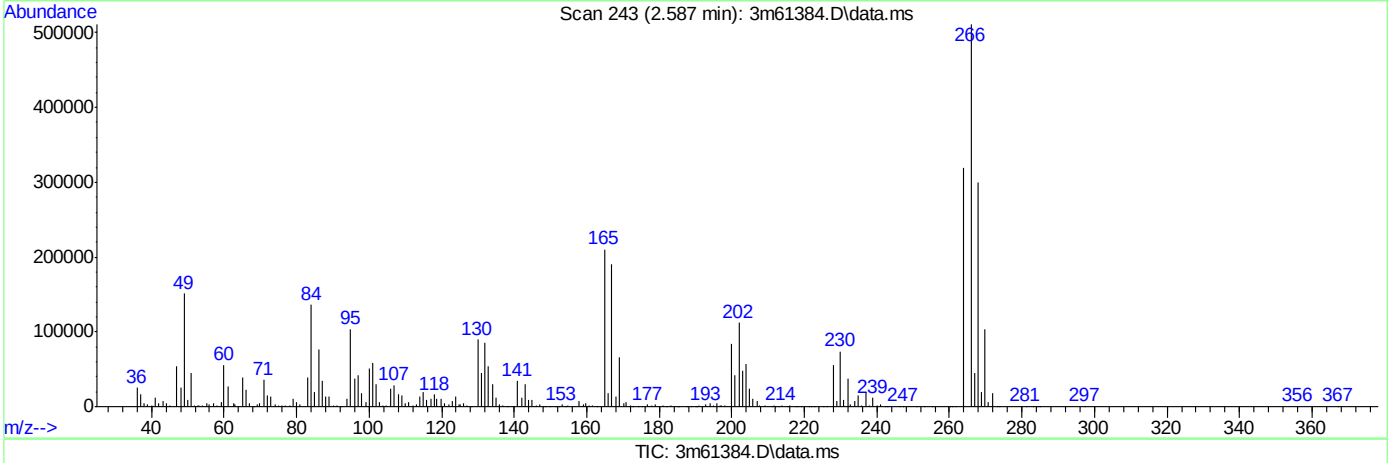
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.05	23041	433.90	493	439.30	232		
424.05	4533	434.65	477	439.50	1958		
425.00	625	435.10	761	440.00	219		
426.20	77	435.70	244	441.10	77365		
427.90	84	436.00	341	442.10	455819		
428.70	121	436.25	308	443.10	91195		
429.20	244	437.10	601	444.05	8879		
430.00	186	437.40	414	444.90	283		
432.70	111	437.80	477	445.10	310		
433.10	232	438.10	554	489.25	309		
433.50	257	438.65	1314				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61384.D
Acq On : 17 May 2016 8:56 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:01:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.587min (-0.208) 138.51ppb

response 510851

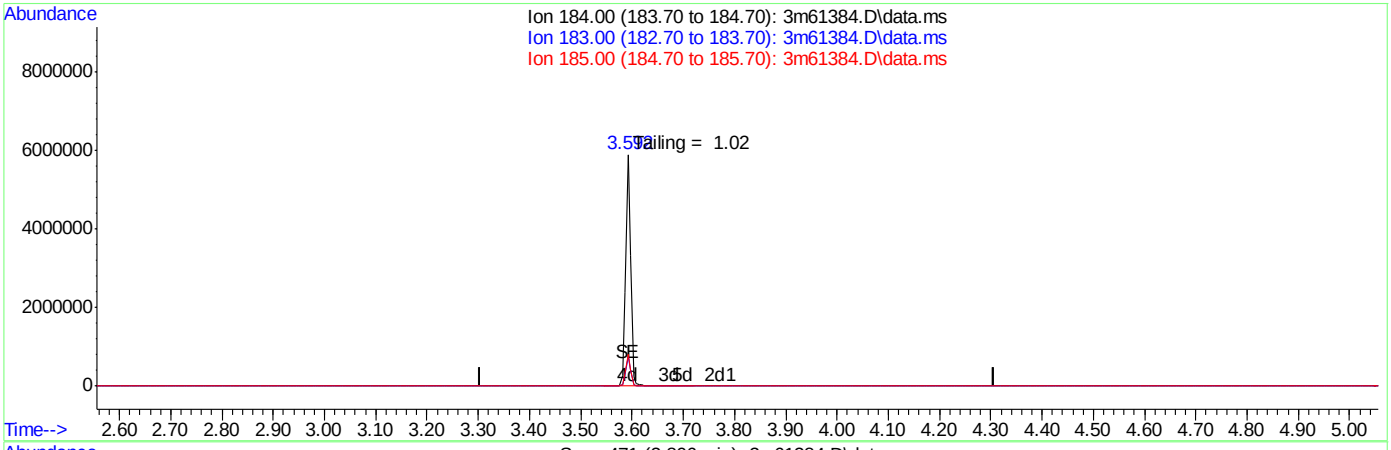
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.48
267.80	64.10	58.75
0.00	0.00	0.00

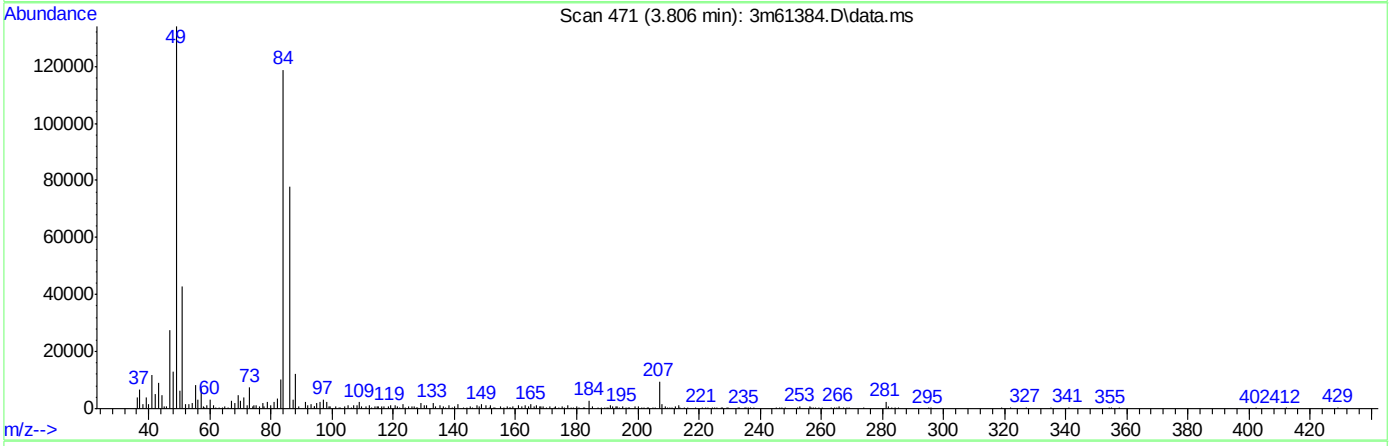
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61384.D
Acq On : 17 May 2016 8:56 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:01:04 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: 3m61384.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

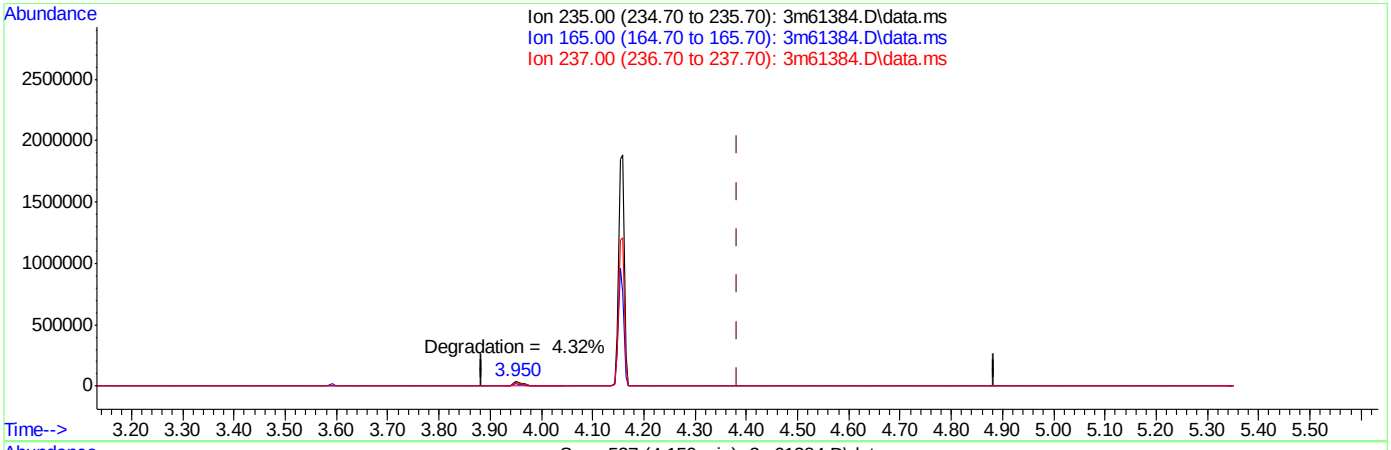
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

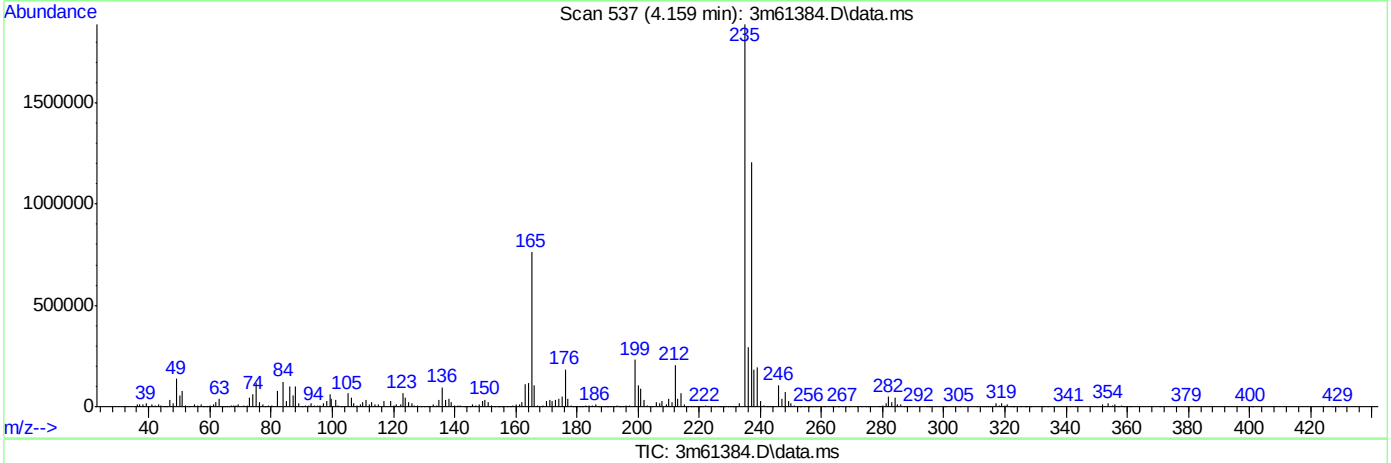
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61384.D
Acq On : 17 May 2016 8:56 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 17 09:01:04 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: 3m61384.D\data.ms

(3) PP-DDT (t)

4.159min (-0.224) 191.01ppb

response 1422778

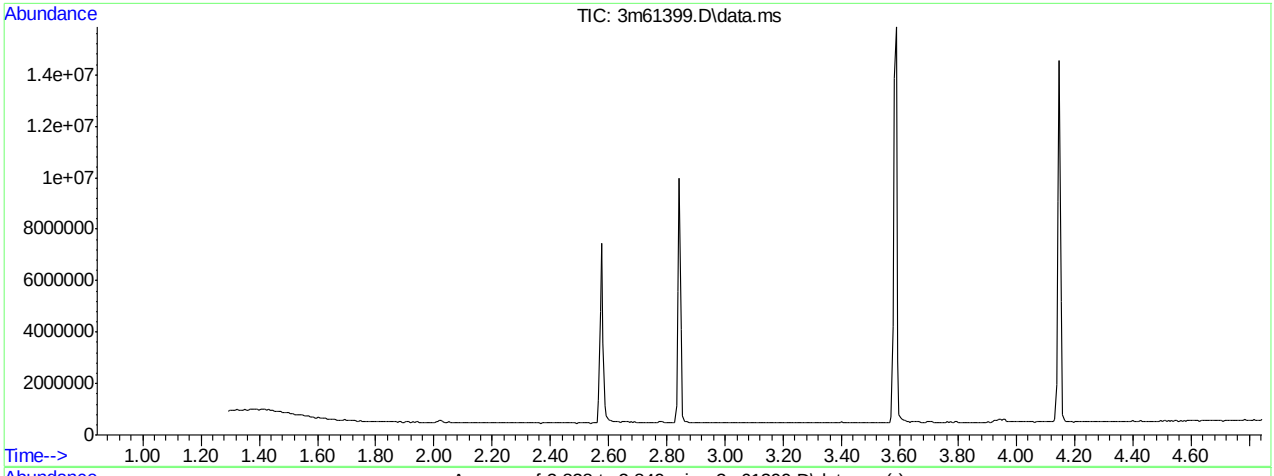
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	47.17#
237.00	0.00	64.05#
0.00	0.00	0.00

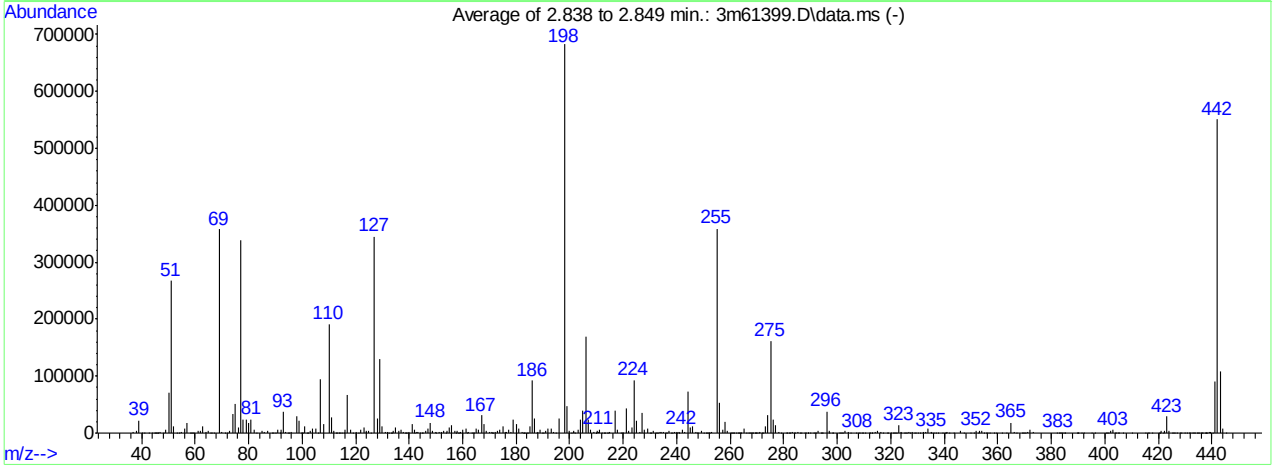
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E3M2888\3m61399.D Vial: 1
Acq On : 18 May 2016 9:00 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op99506a,e3m2888 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 290, 291, 292; Background Corrected with Scan 285

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.1	267029	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.4	357507	PASS
70	69	0.00	2	0.5	1860	PASS
127	198	40	60	50.6	345301	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	682517	PASS
199	198	5	9	7.0	47960	PASS
275	198	10	30	23.7	161619	PASS
365	198	1	100	2.7	18721	PASS
441	443	0.10	100	84.3	91392	PASS
442	198	40	100	80.7	550485	PASS
443	442	17	23	19.7	108472	PASS

3m61399.D DFTPP3M.M Wed May 18 09:43:38 2016 RPT1

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	1688	46.00	212	56.00	7200	65.90	583
38.00	4660	46.20	376	57.00	18484	66.30	184
39.10	22610	47.00	2264	58.00	474	67.00	420
40.05	786	48.00	743	58.80	157	69.00	357507
41.05	976	49.00	5816	59.00	207	69.90	1860
42.90	912	50.05	71367	59.40	140	71.20	446
43.90	108	51.00	267029	61.05	4382	71.95	373
44.80	179	52.00	12504	62.05	4848	73.00	4199
45.10	874	53.05	550	63.00	11239	74.05	33919
45.40	340	54.00	636	64.15	1828	75.00	50988
45.70	82	55.00	2090	64.95	4933	76.05	9608

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	339004	89.10	250	98.95	21371	106.95	94157
78.00	23602	90.10	151	99.80	841	108.00	15132
79.00	23976	91.00	5210	100.00	851	109.95	192022
80.00	18612	91.90	322	100.20	286	111.00	28146
80.95	24131	92.15	6003	101.00	12085	112.00	3402
81.95	5505	92.95	36918	101.85	618	112.70	481
82.95	242	93.95	2653	102.10	837	113.05	787
85.00	4819	94.80	471	103.05	4211	113.80	284
85.95	2664	94.90	131	104.00	8244	114.00	332
87.00	3625	95.95	1597	104.95	7560	114.85	502
88.85	636	97.95	28959	105.90	287	115.80	918

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
116.15	6201	125.80	339	134.95	9698	142.90	2176
117.00	67587	127.00	345301	135.95	4779	143.10	2072
118.00	5215	128.05	26483	136.95	5032	143.95	958
119.10	1012	129.00	130107	137.90	1389	144.80	336
120.00	1452	129.95	11358	138.50	274	145.10	357
121.20	873	131.00	1448	138.80	183	146.05	3301
121.90	6612	131.95	1382	139.00	464	147.00	8475
122.95	10047	132.30	271	140.10	1990	148.00	17789
123.90	1340	133.05	530	141.00	16441	148.90	3586
124.10	3259	133.70	61	141.90	5288	149.80	252
125.00	4293	134.00	3194	142.10	128	150.15	1101

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.15	2773	158.90	384	167.00	30770	175.95	2167
151.85	2615	159.15	1613	168.00	15634	176.20	2480
153.05	4981	160.10	5511	168.90	3255	177.00	6722
153.80	451	161.10	7690	170.00	1101	177.95	2664
154.10	4379	161.80	781	170.70	429	178.95	22724
155.05	9504	162.00	1491	170.90	1093	180.00	15260
156.00	13533	163.15	908	171.30	122	181.00	8636
157.15	3073	163.80	249	172.10	2901	182.05	1133
157.60	438	164.20	608	173.05	4226	182.60	326
157.85	3547	164.90	7995	173.95	6069	182.95	377
158.20	234	166.00	6138	175.00	12020	183.20	410

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.85	505	191.95	7502	201.90	745	210.70	1494
184.20	1035	193.00	8183	202.95	5350	211.00	6679
185.15	12752	193.95	1494	204.05	23526	212.10	221
186.10	91755	194.95	588	205.00	39982	212.60	437

187.00	24834	196.05	26361	206.10	168520	213.10	268
187.80	434	198.00	682517	207.10	23188	213.90	394
188.05	2476	199.00	47960	207.95	6484	214.30	107
189.00	6268	200.00	4179	209.05	2038	214.95	1784
189.80	268	200.70	477	209.70	363	217.05	40003
190.05	755	201.30	1473	210.00	972	218.00	5748
191.10	3621	201.55	3460	210.30	3472	219.05	631

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.40	234	229.85	880	236.95	3276	245.10	9481
220.00	231	230.20	365	237.85	667	246.00	12172
221.05	43871	231.10	3189	238.20	449	247.00	2673
221.85	3973	232.05	545	239.05	1518	247.70	224
223.10	10246	232.30	323	239.90	261	248.00	714
224.05	93416	233.00	738	240.20	1149	249.05	3204
225.10	22658	233.80	1129	240.80	685	250.00	628
226.10	1065	234.10	1333	241.00	1765	250.70	852
227.05	34536	234.95	2318	242.10	6551	251.30	112
228.00	5238	235.85	884	243.05	2668	251.95	826
229.00	7524	236.10	883	244.10	72051	252.10	308

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.30	723	262.10	164	267.95	154	274.05	30963
253.00	2041	262.90	168	268.70	47	275.05	161619
255.00	358891	263.15	308	269.30	101	276.05	22885
256.00	53056	263.50	347	269.50	230	277.00	13123
257.05	5324	263.90	242	269.80	199	278.00	2311
258.05	19396	264.05	28	269.95	278	279.10	507
259.00	3488	265.00	7797	270.40	298	280.90	444
260.05	797	265.95	512	271.00	1114	281.20	438
260.50	153	266.85	414	271.75	531	282.00	674
261.00	249	267.25	460	272.10	956	282.50	137
261.40	136	267.60	252	273.00	11532	283.05	1574

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.80	732	291.60	488	300.90	527	309.60	74
284.10	272	292.15	437	301.10	204	310.20	401
285.05	2966	293.00	3498	301.80	466	311.90	374
285.90	189	293.85	588	302.20	504	312.20	93
286.70	80	294.20	156	303.05	4692	312.90	317
287.90	202	294.40	436	304.00	1591	313.10	214
288.10	109	296.00	38237	305.10	209	314.10	2427
288.90	122	296.80	663	307.10	136	315.00	4984
289.05	392	297.05	4510	307.85	567	316.10	2751
290.05	385	298.10	530	308.10	146	317.00	260
291.05	311	298.40	261	309.05	328	318.70	77

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
318.95	201	325.85	248	334.90	320	346.00	3451
320.00	173	326.90	2091	335.15	2312	347.15	679
320.80	98	327.10	753	335.95	332	349.70	146
321.10	1042	328.00	1143	336.60	98	351.20	238
321.80	146	328.90	110	337.80	81	352.05	4134
322.05	960	329.25	347	339.10	363	352.90	645
323.10	14226	330.10	121	340.20	85	353.10	3220
323.80	353	330.90	327	340.75	595	354.10	4734
324.00	2694	332.00	1123	341.05	1340	355.00	823
325.20	161	333.05	1958	341.95	406	355.70	170
325.60	178	334.05	8569	343.50	85	356.20	180

Average of 2.838 to 2.849 min.: 3m61399.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
356.70	117	370.50	115	389.50	258	403.05	5066
358.70	101	371.00	1200	389.90	124	403.90	831
359.30	93	372.05	6823	390.15	867	404.15	1054
361.70	83	373.10	2126	391.15	741	405.00	100
363.35	329	382.10	132	392.20	627	405.25	220
365.00	18721	382.85	1052	395.10	81	406.80	93
366.00	2622	383.10	1019	396.10	101	409.90	356
367.05	260	383.90	221	400.40	276	415.05	433
368.90	155	384.10	137	400.85	266	416.10	99
369.25	234	384.90	198	401.20	453	416.30	97
369.85	506	385.10	218	402.10	3295	417.70	221

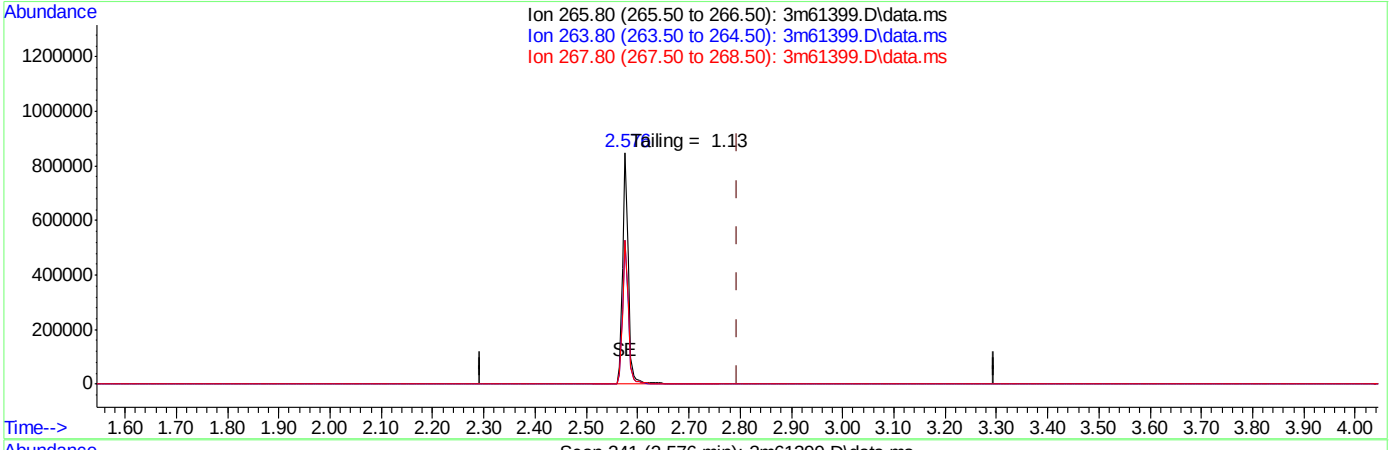
Average of 2.838 to 2.849 min.: 3m61399.D\data.ms
dftpp
Modified:subtracted

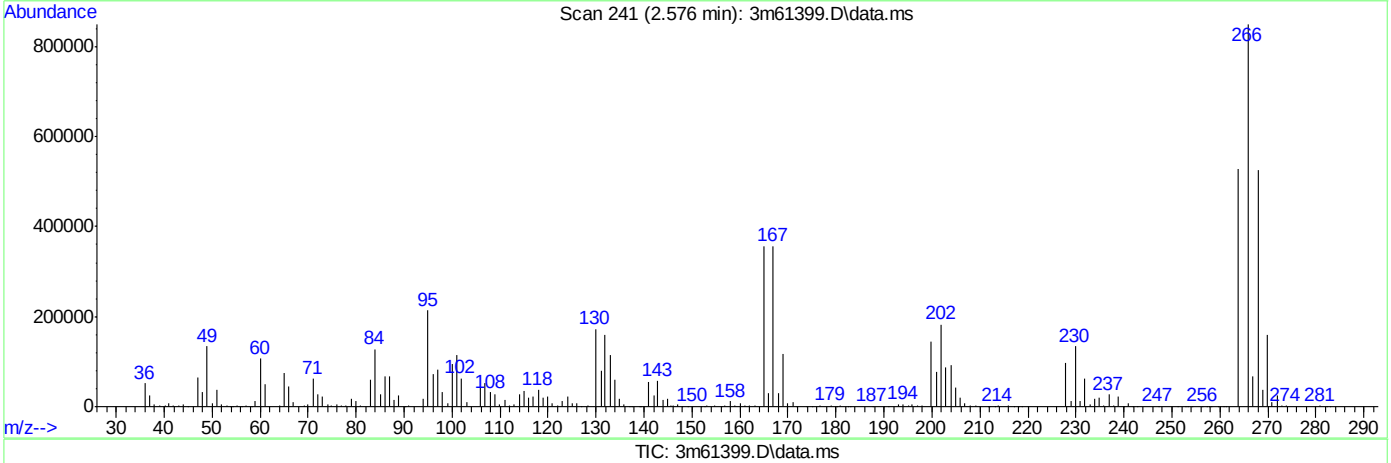
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.10	171	427.90	111	435.15	481	440.20	772
420.60	142	428.60	95	435.90	181	441.10	91392
421.10	4452	429.60	269	436.10	872	442.10	550485
421.80	563	430.60	174	436.60	493	443.10	108472
422.15	3623	431.25	478	437.30	574	444.05	8912
423.10	28779	431.85	296	437.60	539	445.10	564
424.10	4501	432.80	177	437.90	459		
425.05	622	433.10	122	438.30	567		
425.60	116	433.70	204	438.85	1857		
426.20	253	434.35	450	439.30	296		
426.90	96	434.80	550	439.50	3008		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61399.D
Acq On : 18 May 2016 9:00 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2888
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 09:04:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.576min (-0.219) 175.96ppb

response 648978

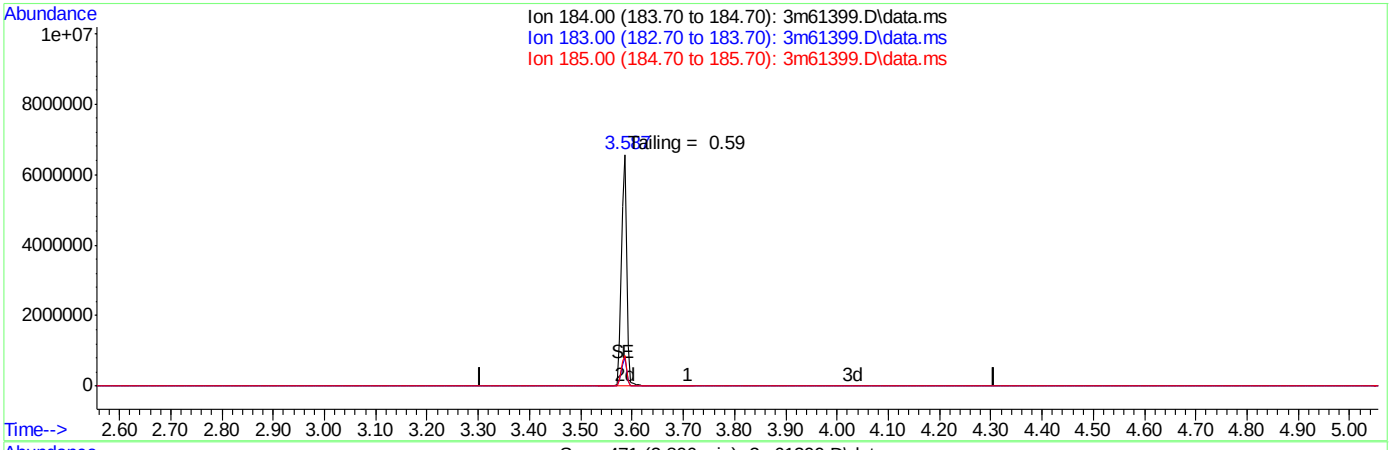
Ion	Exp%	Act%
265.80	100	100
263.80	62.80	62.25
267.80	64.10	61.83
0.00	0.00	0.00

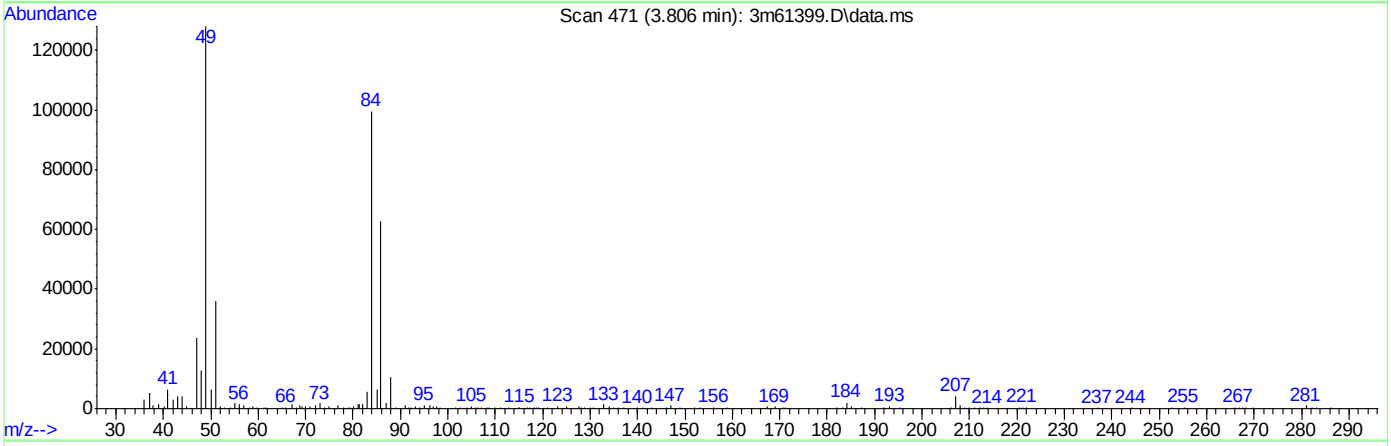
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61399.D
Acq On : 18 May 2016 9:00 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2888
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 09:04:21 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: 3m61399.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

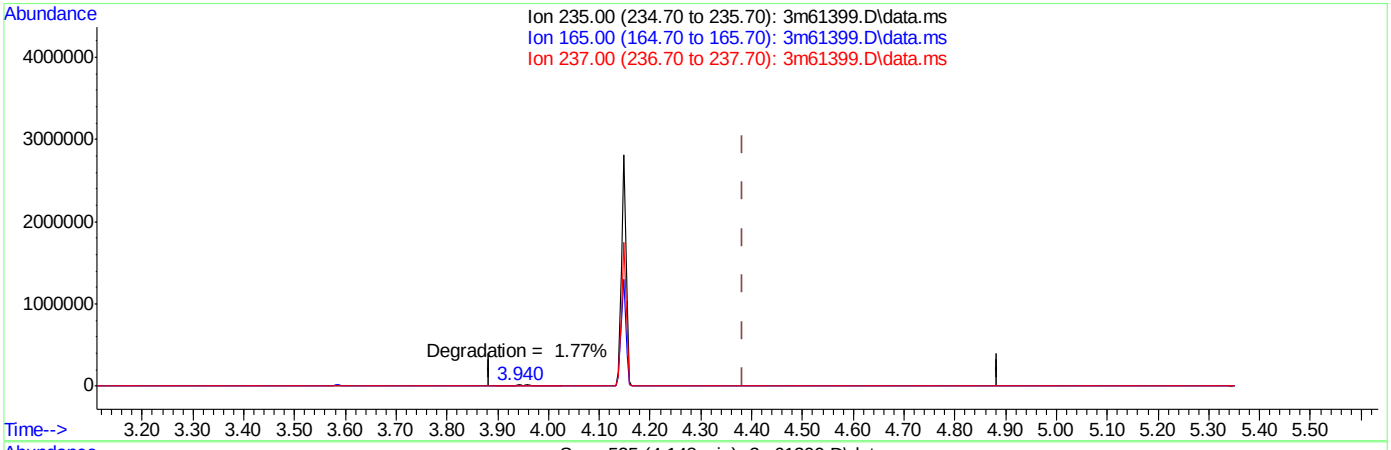
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

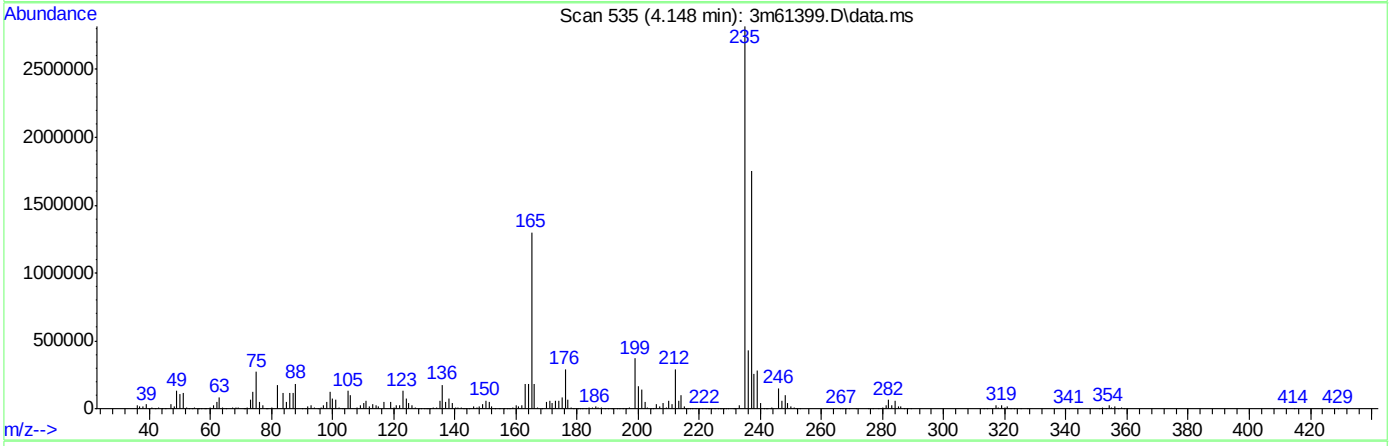
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61399.D
Acq On : 18 May 2016 9:00 am
Operator : linseyk
Sample : dftpp
Misc : op99506a,e3m2888
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 18 09:04:21 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: 3m61399.D\data.ms

(3) PP-DDT (t)

4.148min (-0.235) 239.62ppb

response 1784877

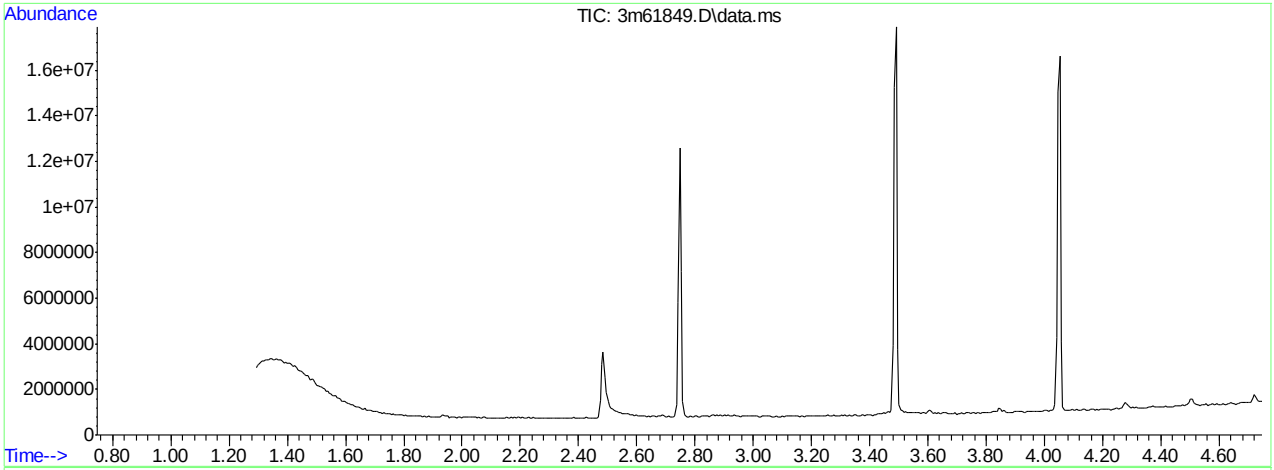
Ion	Exp%	Act%
235.00	100	100
165.00	0.00	47.41#
237.00	0.00	63.22#
0.00	0.00	0.00

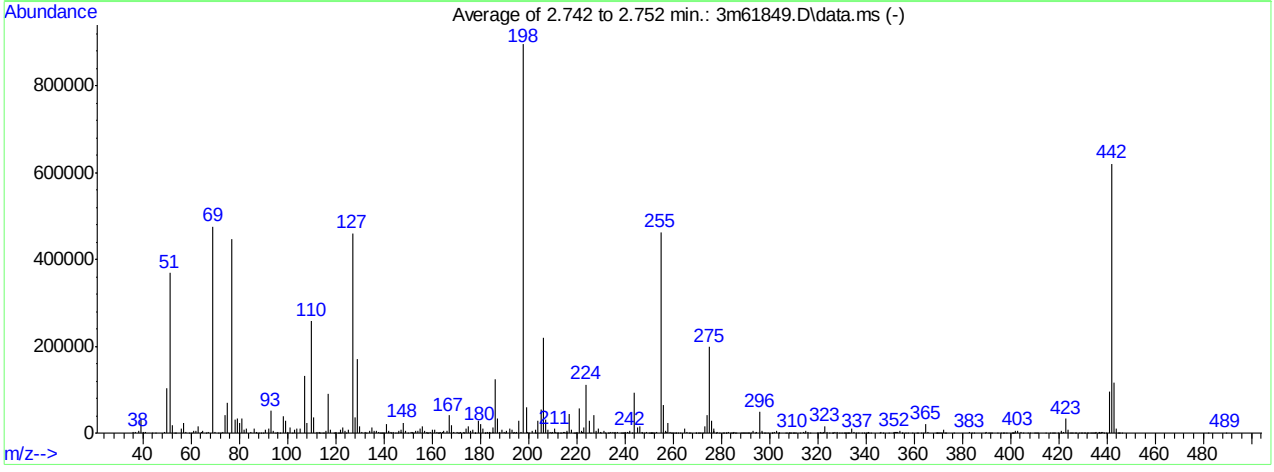
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E3M2915\3m61849.D Vial: 1
Acq On : 1 Jun 2016 8:40 pm Operator: juliusj
Sample : dftpp Inst : MS3M
Misc : op94110a,e3m2915 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 272, 273, 274; Background Corrected with Scan 267

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	368155	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.1	475140	PASS
70	69	0.00	2	0.4	2047	PASS
127	198	40	60	51.4	459904	PASS
197	198	0.00	1	0.2	1975	PASS
198	198	100	100	100.0	895125	PASS
199	198	5	9	6.7	59651	PASS
275	198	10	30	22.2	198389	PASS
365	198	1	100	2.4	21363	PASS
441	443	0.10	100	82.8	96811	PASS
442	198	40	100	69.4	620800	PASS
443	442	17	23	18.8	116923	PASS

3m61849.D DFTPP3M.M Thu Jun 02 09:00:34 2016 RPT1

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	2495	51.00	368155	63.00	16464	74.95	69558
36.90	3572	52.05	19048	64.15	1861	77.00	445741
38.00	4645	53.00	939	64.95	5655	78.05	30122
39.00	31729	53.50	375	66.05	554	79.00	33894
39.95	2315	56.00	9369	67.00	2694	80.00	23641
40.15	347	57.00	23616	68.95	475140	81.00	33567
41.05	3810	57.95	2418	69.95	2047	82.00	8219
44.00	1258	59.00	1095	71.05	229	83.00	11252
45.00	711	60.05	292	72.15	1100	84.95	2702
49.00	1984	61.00	4821	73.00	3904	85.95	9621
49.95	103247	61.95	5443	74.05	41837	86.90	621

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.10	2547	98.00	37865	110.90	37352	119.60	610
87.90	694	99.00	27306	112.05	3587	119.95	1753
89.10	485	100.10	1670	112.90	1403	120.80	678
89.70	44	100.95	12857	113.20	198	121.50	600
90.95	8169	102.10	844	113.80	606	121.90	7265
92.00	10358	103.00	6961	114.30	92	122.10	925
93.00	51181	104.00	10380	114.80	664	123.00	11898
94.00	4261	105.00	10326	115.90	4475	123.95	5773
95.00	942	107.00	130786	117.00	90757	124.15	943
96.10	2690	108.00	22874	117.95	7667	125.00	6895
96.90	240	109.95	257287	119.10	218	127.00	459904

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	36601	138.20	443	144.90	459	152.30	1317
129.00	169607	138.90	1038	145.85	808	153.00	6497
129.95	14833	139.20	643	146.20	5489	154.10	4394
130.90	2597	139.80	1277	146.90	2636	155.05	11475
132.15	2479	140.10	888	147.05	8256	156.00	15178
132.85	55	141.00	20465	147.95	24429	156.95	4961
133.95	5211	141.90	6064	149.00	4326	157.60	784
134.90	13722	142.05	1852	149.95	730	157.85	3442
136.10	5026	142.85	1052	151.15	3808	158.20	1287
137.00	5133	143.10	3099	151.55	1014	159.00	2028
137.85	1508	144.00	1830	151.95	1626	160.05	7065

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.90	7376	170.10	2170	178.00	834	185.20	3870
161.95	3716	170.80	572	178.95	28320	186.05	122830
162.30	477	171.10	1234	179.95	19483	187.00	33549
162.80	709	171.95	3829	180.95	10310	188.00	3173
163.15	1682	172.90	1158	181.80	513	189.00	7263
164.10	1728	173.10	3651	182.05	1332	189.95	1857
164.90	5440	174.10	9318	182.80	860	190.20	819
166.00	5991	175.00	15448	183.05	1497	190.95	5456
166.95	40237	176.05	6324	183.65	572	192.00	9401
167.90	19183	177.00	7811	183.95	1880	193.05	8935
168.95	2032	177.80	1292	185.00	12482	193.80	575

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
194.05	2456	203.05	6718	211.80	928	218.90	161
194.40	621	204.05	28696	212.10	1205	219.30	482
195.10	1918	205.05	53317	213.00	394	219.60	237
196.05	29360	206.05	219087	213.40	504	220.10	2610

196.80	1975	207.00	31807	214.70	1822	221.05	56037
198.00	895125	207.95	7805	214.95	1749	221.80	5365
199.00	59651	208.95	3583	215.30	1167	222.60	1648
199.80	2402	209.20	89	215.90	1070	223.10	14086
200.00	1178	210.10	2433	216.10	4753	224.00	111419
201.60	6498	210.95	10146	217.00	44923	225.00	28690
202.85	58	211.15	1785	218.00	6696	225.90	887

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.00	41790	235.60	205	242.80	786	250.90	720
228.00	5778	235.95	1798	244.05	93019	251.20	573
229.00	9880	236.95	3015	245.05	13227	251.40	512
229.75	295	238.05	332	246.05	14338	251.95	773
230.05	1896	238.80	856	246.90	2283	252.20	487
231.05	4063	239.05	1026	247.10	1063	253.05	3294
231.85	414	239.60	399	247.95	993	255.00	462293
233.05	683	240.10	2005	249.05	3013	256.00	63392
233.30	353	240.90	2527	250.10	865	256.95	4691
233.90	1768	241.30	558	250.30	423	257.20	2551
234.90	3254	242.10	5840	250.60	299	258.00	23647

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.90	2590	267.00	594	276.90	9636	284.20	143
259.10	1352	269.20	266	277.10	5565	284.60	330
259.80	801	269.50	472	277.90	282	284.80	1238
260.20	123	270.20	209	278.15	2191	285.15	1757
260.95	123	270.70	230	279.20	940	285.70	709
261.20	93	271.20	1003	280.50	123	286.35	964
261.90	77	272.30	895	280.95	1059	288.00	638
263.00	156	273.05	14777	281.80	117	288.40	124
265.00	10394	274.05	40600	282.10	481	289.00	587
265.70	3008	275.05	198389	283.10	2008	289.65	294
266.60	521	276.05	27385	283.95	586	290.10	553

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
290.30	142	298.00	284	307.20	110	314.70	519
291.05	291	298.20	200	307.90	538	315.05	4862
291.30	195	299.10	174	308.20	639	316.05	3654
291.50	154	300.85	798	308.70	374	317.10	322
292.05	1036	301.20	573	309.15	95	319.80	100
293.00	4069	302.10	2069	309.80	568	320.10	396
293.90	1374	303.00	6267	310.10	174	320.90	195
294.50	1526	303.80	230	310.60	222	321.05	2166
296.00	48620	303.90	506	310.90	106	321.50	129
296.80	1262	304.05	1055	312.80	191	322.00	451
297.00	5624	306.70	266	314.15	3106	322.70	1401

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.05	16424	331.50	150	339.15	186	351.95	3640
324.05	3781	331.90	522	340.05	211	352.20	1994
324.90	333	332.15	882	340.70	260	352.90	2275
326.05	445	332.50	413	340.90	1471	353.15	1907
326.20	397	332.90	353	341.20	223	354.05	5973
326.40	102	333.20	1160	341.95	496	355.00	951
327.00	3351	334.00	9696	345.60	146	355.20	667
327.90	1662	335.05	3129	346.10	2400	356.30	156
329.05	324	336.10	136	347.05	260	357.30	91
330.10	202	336.80	248	349.25	225	359.20	580
330.90	359	338.40	95	351.10	844	360.95	213

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
361.60	80	371.20	660	391.10	551	401.60	250
363.10	826	372.05	8391	391.90	603	402.05	4744
363.75	414	372.85	1055	392.30	97	403.15	5311
365.00	21363	373.20	915	394.70	104	404.15	1810
365.90	2729	376.65	241	396.05	312	405.20	340
369.10	138	383.05	1916	397.00	166	407.10	112
369.40	144	383.95	909	397.45	292	408.10	96
369.60	329	385.00	151	398.30	335	409.80	188
370.05	619	389.50	247	400.70	150	410.30	258
370.60	131	390.05	1558	400.90	471	410.90	97
371.00	89	390.70	107	401.20	297	411.40	189

Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
414.80	147	424.95	611	432.50	354	437.90	1809
416.30	157	425.30	458	433.20	608	438.55	2188
417.30	131	425.90	471	433.60	442	439.00	430
417.65	188	426.55	318	434.30	450	439.90	544
418.30	126	427.10	89	434.75	667	441.15	96811
419.80	95	428.60	112	435.10	485	442.10	620800
420.90	470	429.40	257	435.50	1448	443.10	116923
421.15	4167	429.70	195	436.25	1239	444.10	9408
422.05	3252	430.60	335	436.70	209	444.70	144
423.10	33244	431.10	256	436.90	1550	444.90	354
424.05	7894	431.90	318	437.30	197	445.20	315

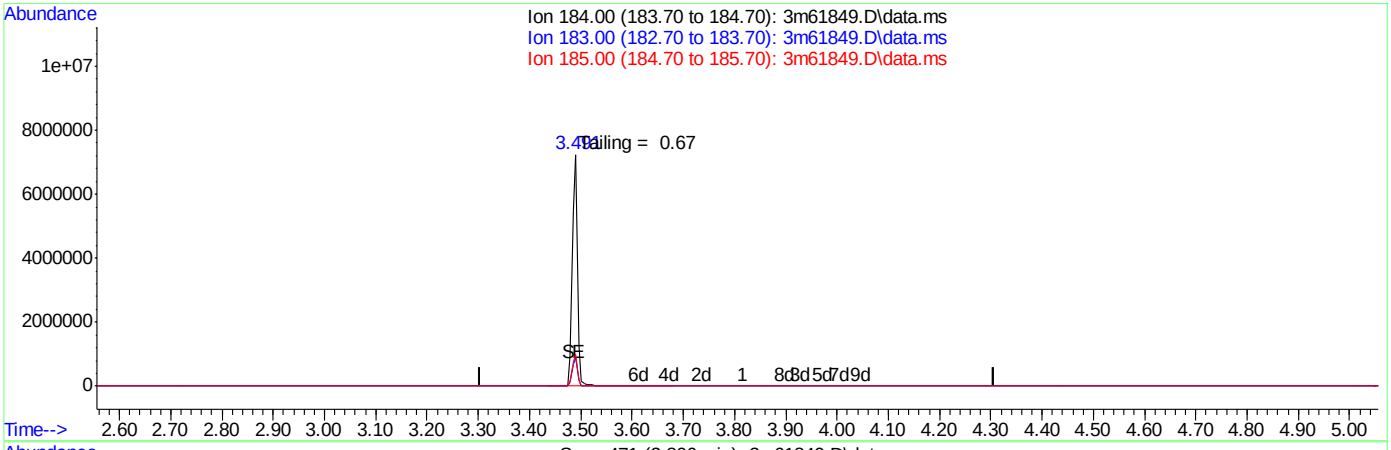
Average of 2.742 to 2.752 min.: 3m61849.D\data.ms
dftpp
Modified:subtracted

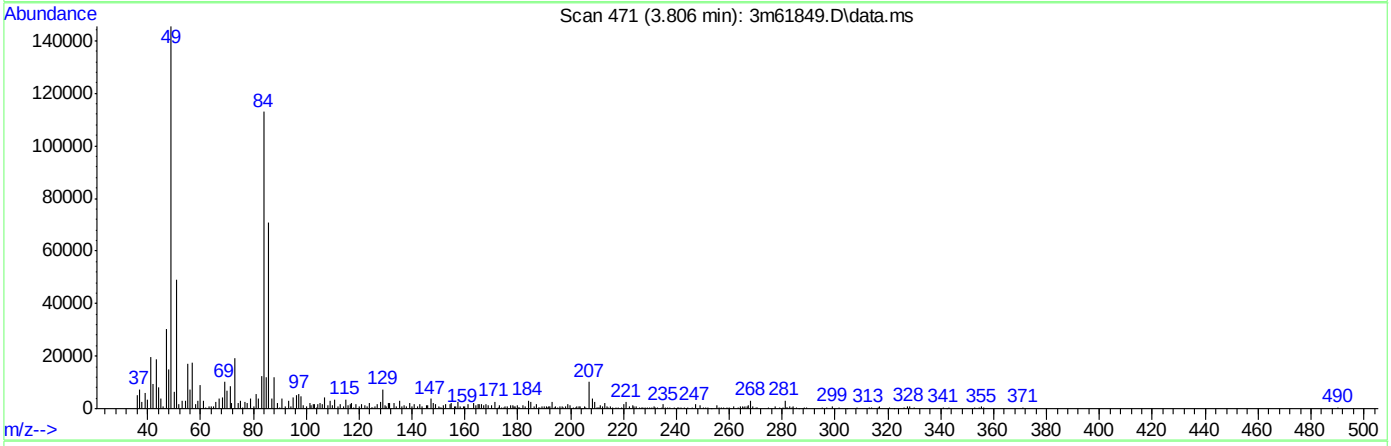
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
446.10	267						
482.20	115						
489.30	189						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61849.D
Acq On : 1 Jun 2016 8:40 pm
Operator : juliusj
Sample : dftpp
Misc : op94110a,e3m2915
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 01 20:45:01 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: 3m61849.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

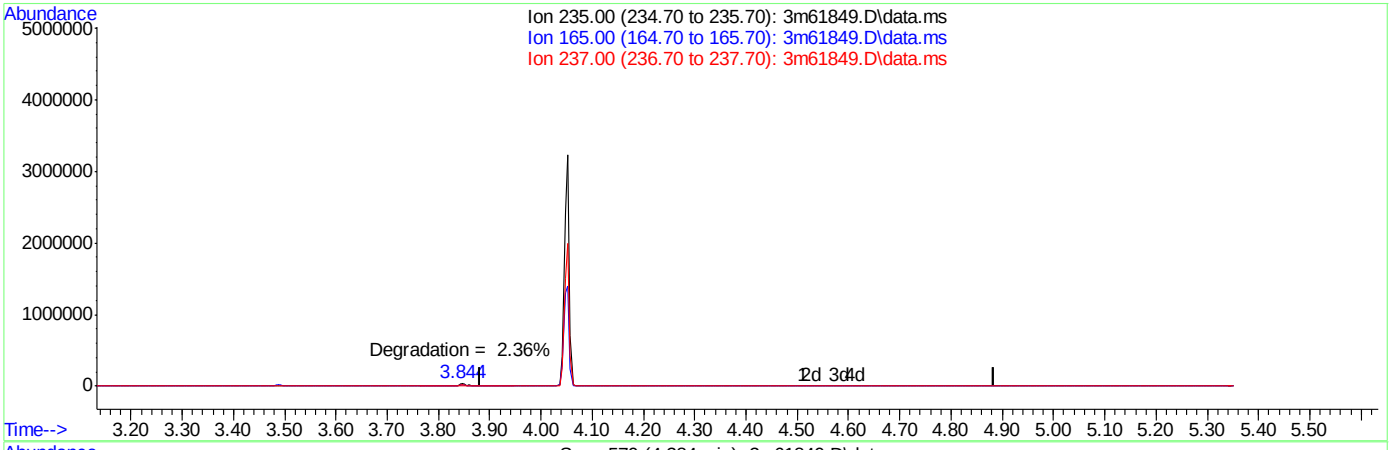
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

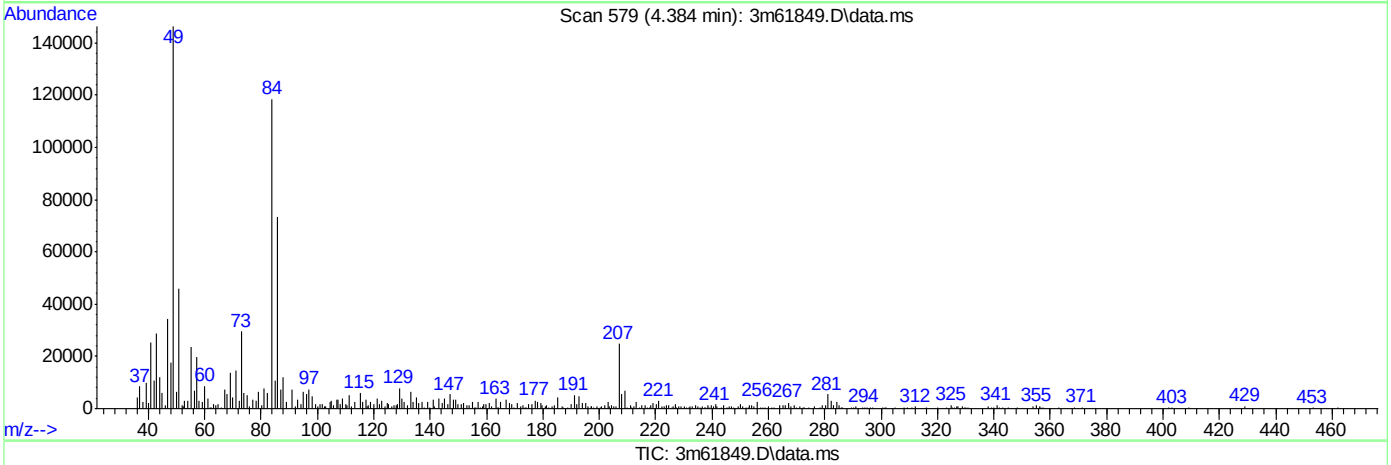
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61849.D
Acq On : 1 Jun 2016 8:40 pm
Operator : juliusj
Sample : dftpp
Misc : op94110a,e3m2915
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 01 20:45:01 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: 3m61849.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

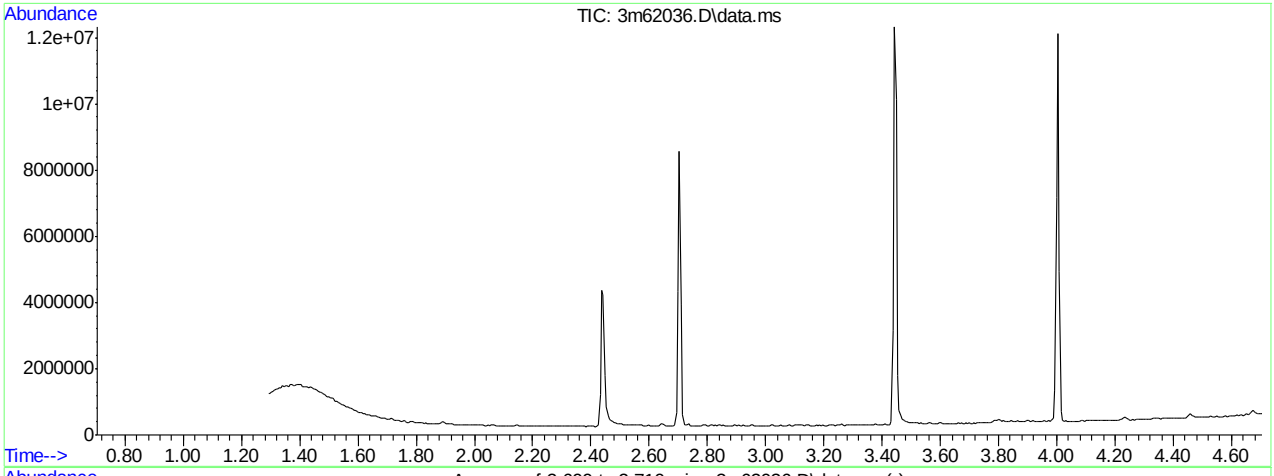
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

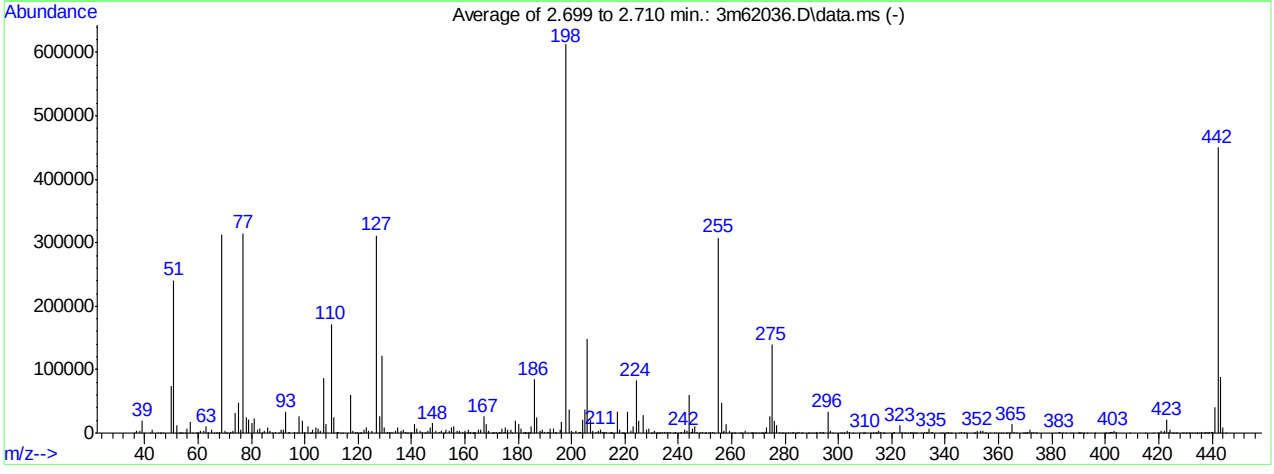
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E3M2924\3m62036.D Vial: 1
Acq On : 7 Jun 2016 10:38 pm Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op94271a,e3m2924 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 264, 265, 266; Background Corrected with Scan 257

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.3	240513	PASS
68	69	0.00	2	0.6	1834	PASS
69	198	0.00	100	51.2	313669	PASS
70	69	0.00	2	1.0	3159	PASS
127	198	40	60	50.9	311936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	612608	PASS
199	198	5	9	6.1	37437	PASS
275	198	10	30	22.7	138845	PASS
365	198	1	100	2.2	13466	PASS
441	443	0.10	100	45.9	40499	PASS
442	198	40	100	73.4	449917	PASS
443	442	17	23	19.6	88293	PASS

3m62036.D DFTPP3M.M Wed Jun 08 08:26:18 2016 RPT1

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	732	50.05	74571	59.00	222	68.00	1834
37.05	3462	51.00	240513	59.80	319	69.00	313669
38.00	3578	52.10	11921	60.20	409	70.10	3159
39.10	19131	52.90	363	61.05	3955	70.70	313
40.05	936	53.30	277	62.10	4464	71.10	124
42.00	616	53.85	88	63.00	10152	72.15	1182
42.95	5774	54.25	626	63.95	1371	73.00	3275
44.90	117	55.00	610	65.00	4742	73.95	31725
45.65	253	56.05	7411	66.00	553	75.00	47754
46.00	182	56.90	18603	66.85	383	76.05	6165
46.95	213	58.10	461	67.10	539	77.00	315413

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	23991	88.90	1240	99.85	1686	111.00	25278
79.00	21205	90.10	354	101.00	10149	112.00	2566
80.05	16208	91.05	5386	101.90	417	112.20	253
81.00	22744	91.95	4943	102.30	252	112.75	1089
82.10	6189	92.95	33301	103.05	5070	113.30	193
82.95	7536	93.90	895	104.05	8714	114.20	502
83.95	544	94.05	1861	105.00	7534	117.00	59562
85.00	3499	96.05	2182	105.90	3269	117.95	4021
85.90	8456	96.80	486	107.00	86675	118.80	863
87.00	3166	98.00	26091	108.00	13526	119.05	43
87.95	430	98.95	18860	109.95	172164	119.75	1148

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.70	151	130.75	391	139.90	1823	150.20	1389
120.90	260	131.10	2095	141.00	14007	151.25	2844
121.15	871	132.05	1159	142.05	6346	152.00	801
122.05	6102	132.65	1751	143.10	3215	153.05	5502
123.00	8418	133.95	3274	144.00	1661	154.00	3409
123.90	4030	134.95	8847	144.95	441	155.00	8878
125.00	4126	136.00	4451	145.20	584	156.00	10697
127.00	311936	137.00	4523	145.95	2876	157.00	4063
128.10	26623	137.65	1193	147.00	8413	157.80	752
129.00	121175	138.10	408	148.00	15453	158.05	2876
129.95	9202	138.75	565	148.95	3066	159.10	2631

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.95	4443	167.00	26285	174.00	6686	182.50	161
160.90	639	168.05	13941	174.90	2157	182.85	987
161.10	5166	168.75	513	175.10	8161	183.30	630
161.80	735	169.05	2749	176.10	4589	183.85	1337
162.00	2194	170.00	585	177.05	5946	184.20	537
162.80	245	170.40	632	177.80	307	185.00	10470
163.00	170	170.90	1583	179.00	20082	186.05	84357
163.20	111	171.90	2160	180.00	14756	187.05	24673
163.75	1258	172.80	632	181.05	6504	188.05	2958
164.95	5823	173.00	2659	181.90	126	188.80	1107
166.00	5063	173.25	532	182.10	177	189.10	4656

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.80	1037	198.95	37437	208.00	4182	215.00	1507
191.00	992	199.80	852	209.00	1936	215.20	426
191.20	2041	200.05	2782	210.15	2907	217.00	33635
191.80	1463	200.30	455	210.70	1307	217.95	4637

192.10	6729	201.55	4040	211.05	5976	219.00	822
193.10	7153	202.95	1985	211.60	1104	219.30	127
193.90	489	203.15	1495	212.00	1394	219.60	417
194.15	1686	204.00	20457	212.20	170	221.05	34389
195.90	4897	204.95	36930	213.10	1050	222.00	3207
196.05	17523	205.95	147982	214.00	223	223.00	10114
198.00	612608	207.05	20892	214.50	132	224.10	82448

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.05	19180	233.10	746	241.10	1534	249.00	2618
227.00	29139	234.00	2376	241.80	665	249.90	190
228.00	4869	234.90	2147	242.15	4624	250.15	419
228.95	7253	235.30	513	243.00	3332	251.10	606
229.85	179	235.90	1171	244.05	60168	252.00	1319
230.10	888	236.95	2614	244.90	1473	252.95	1459
230.95	2773	238.00	556	245.10	7189	253.30	694
231.80	203	238.70	310	246.00	10209	255.00	307819
232.00	725	239.00	1075	247.05	2265	256.05	47064
232.30	304	240.00	839	248.00	331	256.80	799
232.80	125	240.80	231	248.20	341	257.05	3171

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.05	15021	267.05	440	273.05	9669	282.50	354
259.00	3414	267.60	329	274.10	27336	282.95	1088
259.80	124	267.80	297	275.00	138845	283.85	762
260.20	406	268.05	3	276.05	18721	284.25	400
260.85	368	268.90	138	277.00	12013	285.05	2487
261.30	458	269.30	137	278.15	1480	285.90	127
263.10	206	270.00	604	278.90	356	286.30	124
263.50	397	270.90	319	279.20	265	288.55	280
263.90	434	271.15	564	280.30	133	289.15	357
265.00	4260	271.90	451	281.20	658	290.00	112
265.85	741	272.80	1790	281.80	255	290.80	315

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
291.40	89	301.90	150	313.00	241	324.00	2432
292.05	1016	302.10	429	313.80	749	324.60	163
293.05	2508	303.15	4393	314.10	811	325.10	219
293.60	191	303.95	1747	314.30	691	325.95	630
294.10	698	305.20	108	315.00	3691	326.75	717
294.60	1110	307.95	569	316.05	2678	327.15	1086
296.00	33563	309.00	429	316.80	102	327.80	502
297.15	4318	309.40	132	317.10	293	328.05	684
297.90	547	310.10	763	320.50	97	328.60	194
300.75	255	312.10	253	321.10	1193	328.80	242
301.00	124	312.75	327	323.05	11799	329.10	289

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
331.00	294	341.20	1263	353.15	3006	363.10	160
332.05	1208	341.90	349	354.00	3263	363.60	207
332.90	571	342.20	187	355.00	560	364.10	644
333.15	1173	345.20	96	355.25	404	365.00	13466
334.05	6856	346.00	2188	356.80	96	366.05	2535
334.80	235	346.80	411	358.10	166	366.80	75
335.10	2200	347.10	243	359.00	797	369.20	193
338.30	81	347.90	192	360.00	187	369.60	127
339.00	198	350.90	193	361.00	278	369.90	498
340.15	257	351.20	195	361.50	74	370.40	245
340.90	670	352.05	3818	362.75	424	370.90	1004

Average of 2.699 to 2.710 min.: 3m62036.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
371.90	4736	389.60	185	401.60	393	421.05	3502
372.20	634	390.05	948	402.00	1282	421.80	222
373.05	1370	390.40	266	402.30	1081	422.00	3296
373.80	335	390.70	462	402.60	194	423.00	21010
374.40	239	391.00	302	403.05	3703	423.80	1388
382.85	1718	392.10	527	404.05	1917	424.20	4724
383.20	1507	393.30	77	409.30	126	425.10	374
383.95	646	396.10	98	415.10	204	425.40	151
385.00	174	400.00	89	417.80	89	426.20	120
386.85	227	400.45	181	419.50	213	426.70	92
387.90	93	401.00	423	419.95	614	429.05	321

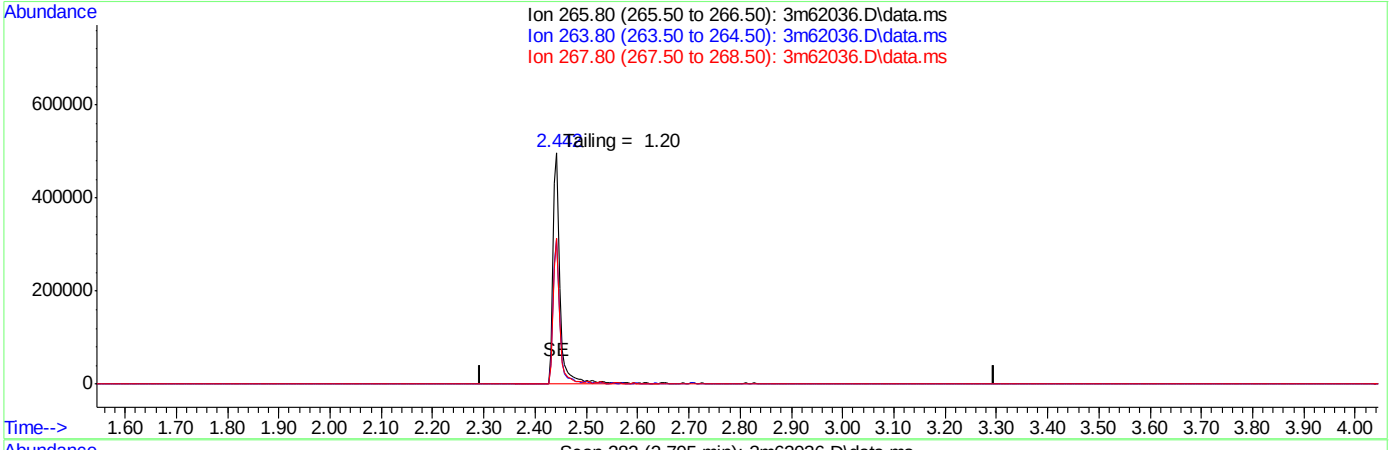
Average of 2.699 to 2.710 min.: 3m62036.D\data.ms
dftpp
Modified:subtracted

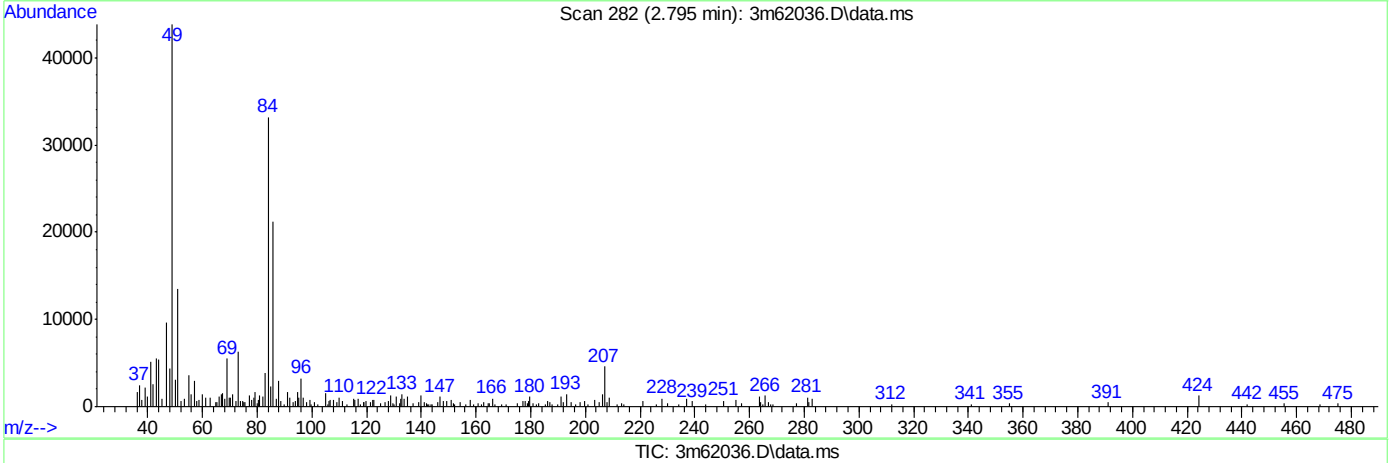
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
429.40	94	436.10	511	443.05	88293		
430.30	270	436.70	710	444.10	8329		
430.50	273	437.20	783	445.05	542		
431.40	427	437.80	1604				
431.85	298	438.30	769				
432.45	567	438.60	96				
433.40	546	438.95	1938				
434.30	254	439.60	2220				
434.50	262	440.00	2483				
435.15	630	441.10	40499				
435.90	1030	442.10	449917				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62036.D
Acq On : 7 Jun 2016 10:38 pm
Operator : ashleyd
Sample : dftpp
Misc : op94271a,e3m2924
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 22:43:03 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: 3m62036.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

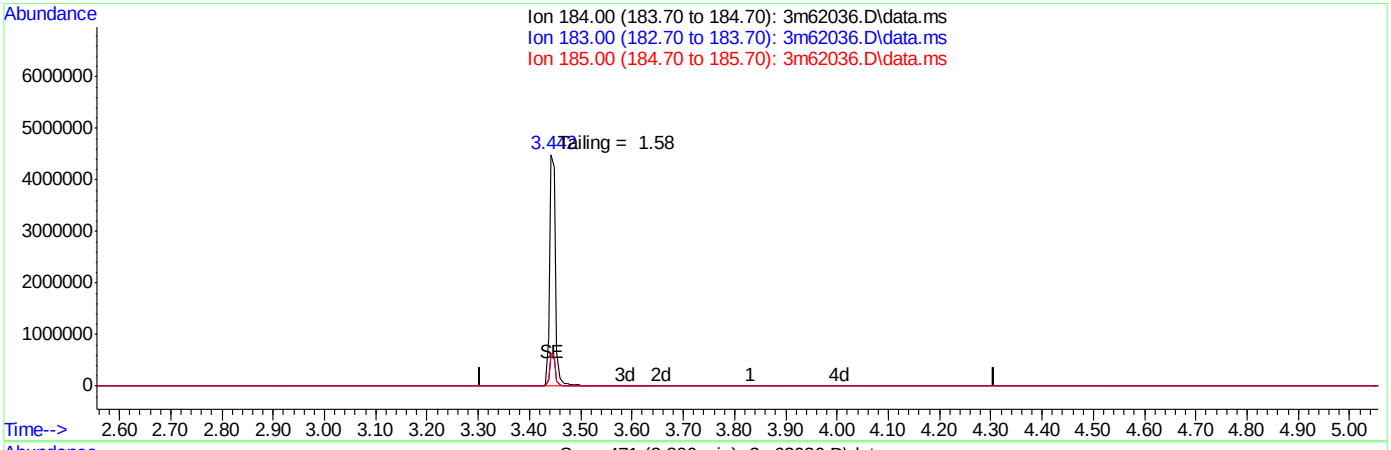
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

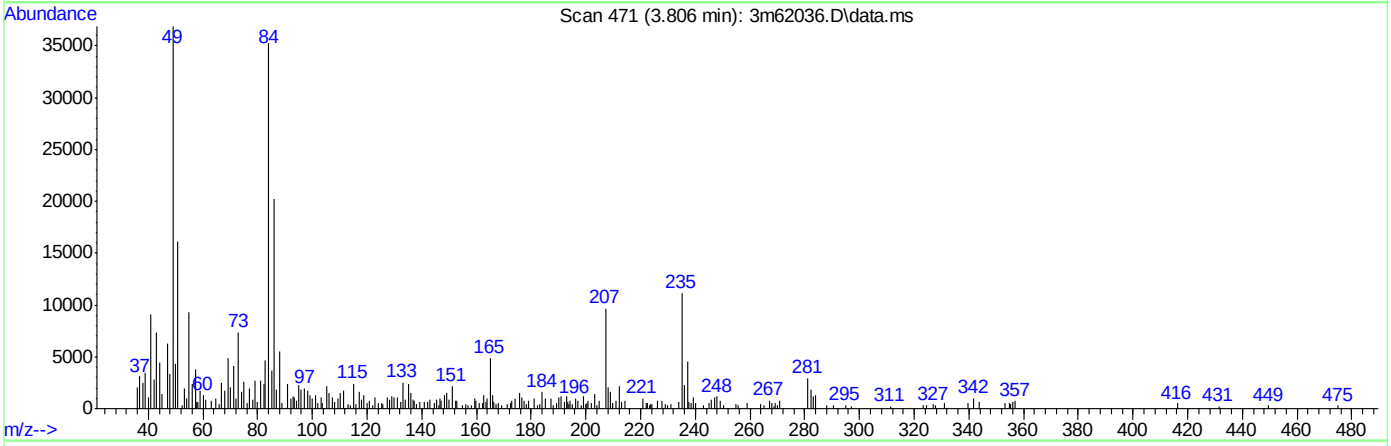
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62036.D
Acq On : 7 Jun 2016 10:38 pm
Operator : ashleyd
Sample : dftpp
Misc : op94271a,e3m2924
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 22:43:03 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: 3m62036.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

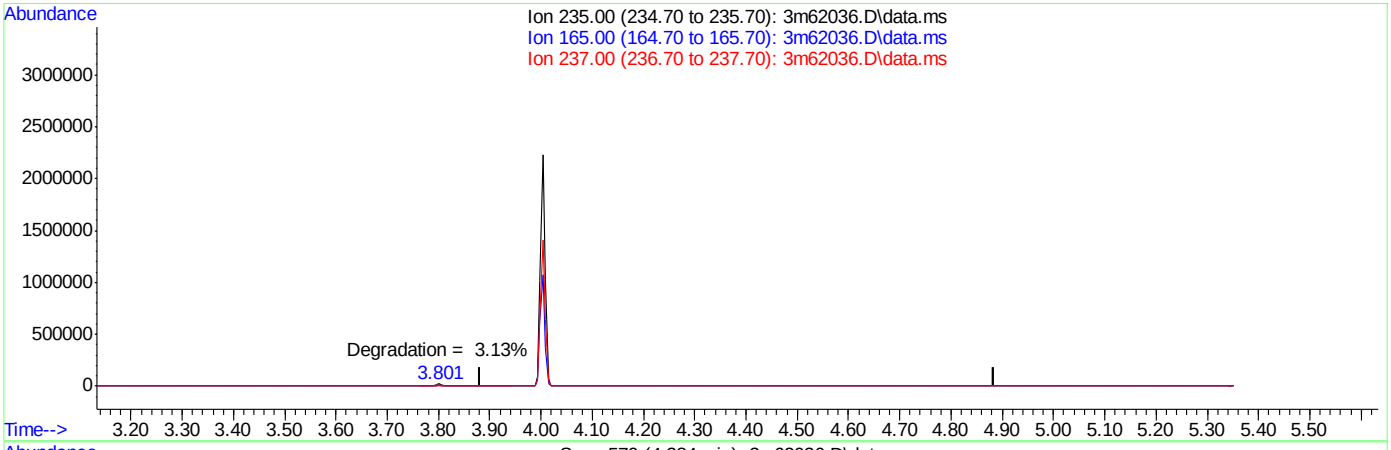
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

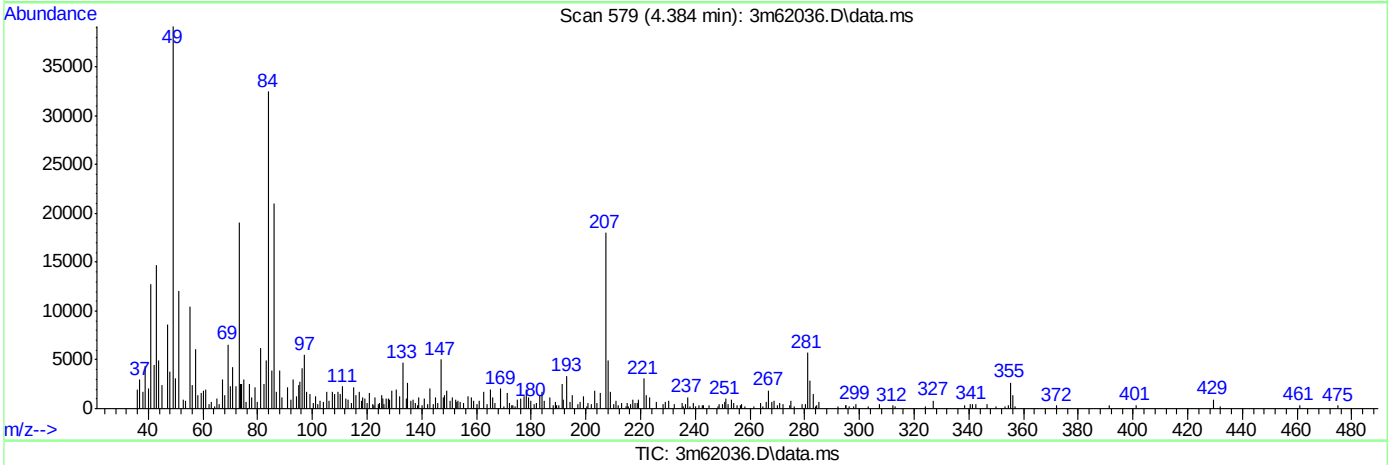
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62036.D
Acq On : 7 Jun 2016 10:38 pm
Operator : ashleyd
Sample : dftpp
Misc : op94271a,e3m2924
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 07 22:43:03 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: 3m62036.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

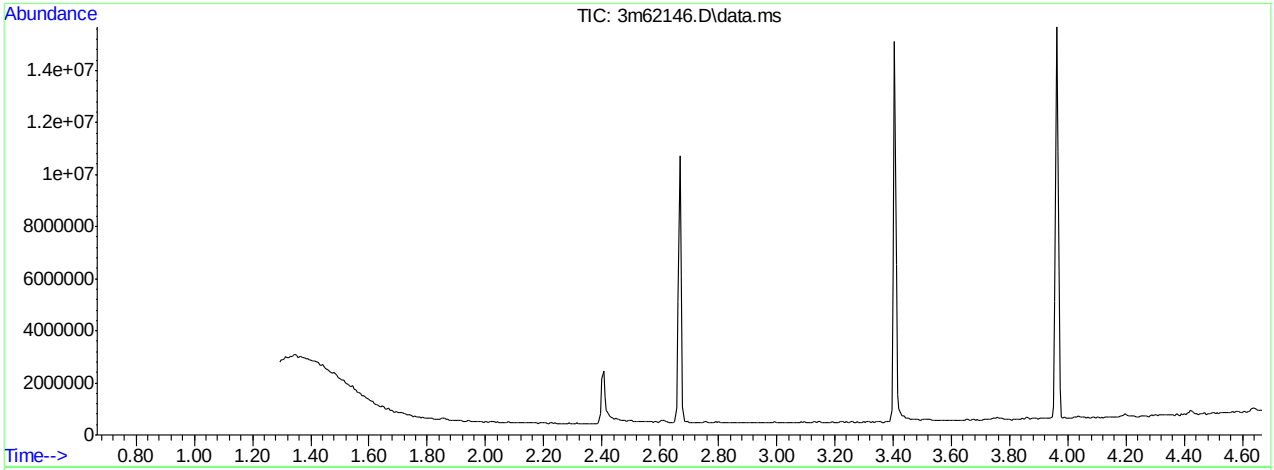
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

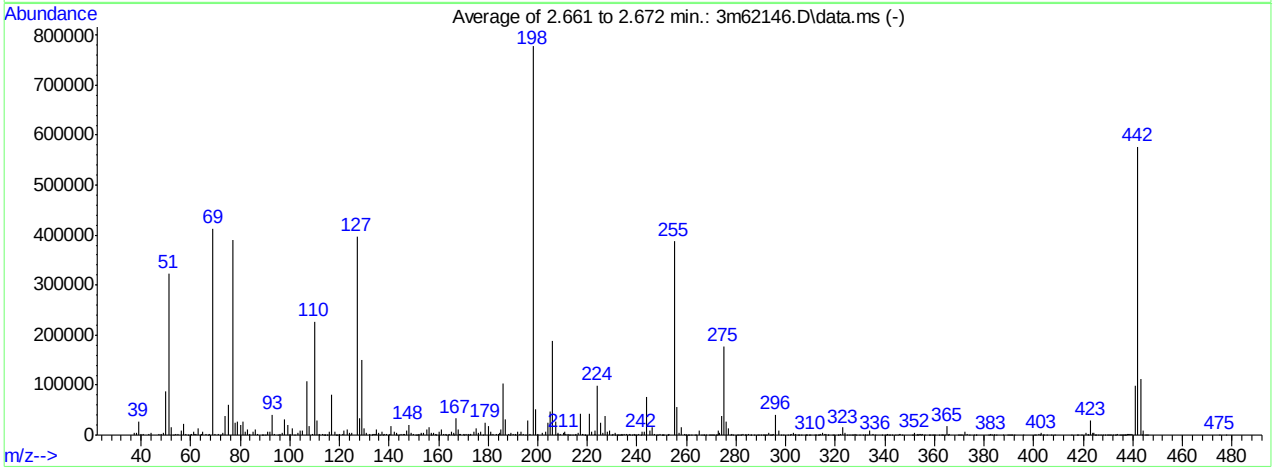
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E3M2930\3m62146.D Vial: 1
Acq On : 10 Jun 2016 8:33 pm Operator: juliusj
Sample : dftpp Inst : MS3M
Misc : op94389a,e3m2930 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 257, 258, 259; Background Corrected with Scan 251

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	323739	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.1	412956	PASS
70	69	0.00	2	0.3	1226	PASS
127	198	40	60	51.2	397848	PASS
197	198	0.00	1	0.4	3174	PASS
198	198	100	100	100.0	777323	PASS
199	198	5	9	6.6	51112	PASS
275	198	10	30	22.8	177221	PASS
365	198	1	100	2.4	18811	PASS
441	443	0.10	100	87.5	98712	PASS
442	198	40	100	74.2	577067	PASS
443	442	17	23	19.5	112776	PASS

3m62146.D DFTPP3M.M Mon Jun 13 10:28:13 2016 RPT1

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	3742	51.00	323739	61.00	5738	69.95	1226
38.15	4956	52.05	16648	61.80	1216	70.95	2433
39.00	27247	53.05	1150	62.10	2899	71.95	141
40.10	2957	53.95	1947	63.05	13754	73.10	3923
41.00	1513	54.95	3415	63.90	660	74.00	38479
43.20	2400	56.05	9000	64.15	1242	75.00	59859
44.10	3486	57.00	21385	65.00	5983	77.00	390806
46.95	1679	58.05	2719	65.95	1961	78.00	25476
48.10	2920	58.80	136	67.00	926	78.95	26369
49.00	3640	59.80	525	67.30	1426	80.00	19397
50.00	88135	60.10	1246	69.00	412956	81.00	26849

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.95	6864	93.00	41526	104.00	8575	114.00	56
83.05	11243	93.95	2399	104.95	8773	114.25	644
83.90	3120	95.05	155	107.00	108151	114.80	847
85.00	6202	96.00	1531	107.95	17621	116.00	7797
85.95	10600	97.05	5166	109.00	1456	117.00	79771
87.05	2745	98.00	31689	110.00	227627	117.95	7062
88.70	326	99.00	21281	110.95	30106	118.80	149
89.00	360	100.00	1626	111.70	930	119.10	781
90.00	87	100.95	12797	111.95	3386	119.95	2691
91.00	5838	101.90	256	112.95	1412	121.15	1452
92.05	7511	103.05	5427	113.70	140	121.95	8470

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	10499	133.30	1500	140.10	1963	148.95	3963
123.80	929	133.95	1812	140.95	17435	150.00	1325
124.10	4450	134.20	1591	142.05	6606	150.70	471
124.95	4800	135.00	11001	142.80	1210	151.20	1185
127.00	397848	135.95	3811	143.05	4376	151.60	871
128.00	32945	136.20	1201	144.00	817	151.90	2754
128.95	149900	137.05	6945	144.95	2092	152.80	1297
129.90	12641	137.70	884	145.85	1769	153.00	4119
130.95	3972	138.15	2013	146.10	1848	154.00	5214
132.05	1465	139.05	1457	147.00	8503	155.00	10320
132.90	943	139.85	1159	147.95	20408	156.05	15916

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	3751	164.20	1674	171.90	3357	180.90	5732
157.20	1120	164.95	7295	172.20	814	181.05	2416
157.85	3860	166.00	4535	172.80	2059	182.10	2103
158.70	699	166.20	1188	173.05	2684	183.15	1529
159.05	1928	166.90	34387	174.05	7567	184.00	1553
160.05	6482	168.00	11216	175.05	13777	184.80	3657
161.00	10188	168.20	2899	176.05	4514	185.05	10642
161.90	1995	168.95	2945	177.05	7865	186.00	103715
162.70	117	170.00	1821	178.00	228	187.00	31285
163.10	1352	170.20	361	178.95	25091	188.15	3151
163.80	386	170.85	2554	179.95	18364	188.70	271

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
189.05	4937	198.00	777323	208.90	2823	217.00	41939
189.95	1862	199.00	51112	210.35	3842	217.95	3115
190.80	1646	200.00	3389	210.85	6030	218.20	2147
191.10	452	201.60	5155	211.15	1757	218.90	271

191.85	6892	203.05	6149	212.05	1280	219.15	708
192.90	2225	204.00	24035	212.65	293	221.00	43778
193.00	7203	205.10	46370	213.05	333	221.85	6290
194.05	1933	206.05	187387	213.90	464	222.85	2271
195.00	593	207.00	26522	214.80	756	223.05	9991
196.05	28749	207.90	1805	215.15	1784	224.05	98709
196.70	3174	208.10	3763	216.10	5690	225.10	24675

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.05	3946	232.95	850	239.00	781	247.85	873
226.95	37840	233.30	661	239.30	280	248.50	479
228.05	7451	233.70	406	239.95	1106	249.05	3276
228.95	8579	233.95	2477	240.85	2722	250.00	536
229.85	521	234.90	2646	241.40	282	250.20	154
230.10	1474	235.85	1952	242.05	6326	250.50	285
231.05	3988	236.10	577	242.95	5781	250.80	530
231.40	684	236.95	2202	244.05	76656	252.25	787
231.95	396	237.20	690	245.15	9493	252.50	848
232.30	370	238.00	1187	246.00	14699	252.95	2034
232.60	138	238.80	1509	247.05	2898	255.00	388053

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.00	56328	265.00	8188	272.20	1080	281.05	1208
257.10	4782	265.80	506	273.00	8568	281.90	154
258.05	16577	266.70	389	273.20	4767	282.05	634
259.10	3272	267.10	1001	274.10	37539	282.95	1602
259.70	166	267.90	186	275.05	177221	283.60	189
259.85	784	268.95	772	276.00	25870	283.85	280
260.75	389	269.80	25	277.00	12576	284.20	586
261.20	252	270.10	692	277.90	522	285.10	1564
262.00	328	270.65	286	278.10	1882	285.70	85
263.20	537	271.10	1125	278.85	337	285.90	342
263.90	813	271.80	560	280.40	133	287.10	256

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.45	386	294.90	1374	304.85	234	313.30	411
289.10	493	296.05	40696	305.30	322	314.10	1301
290.10	847	297.00	8043	306.10	303	315.00	4514
290.80	340	298.10	260	307.90	481	315.95	1639
291.20	138	299.00	110	308.10	248	316.20	2001
291.70	240	300.95	1140	308.60	174	316.95	403
292.05	939	301.50	156	309.60	240	317.20	147
293.05	3882	302.10	1408	310.05	1105	319.10	117
293.70	367	303.00	5370	311.60	146	319.40	156
294.05	921	303.30	467	312.00	75	321.10	930
294.60	696	304.15	1548	312.95	719	321.30	485

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.20	1229	331.80	95	341.95	151	353.05	2984
323.10	15684	332.05	1058	342.85	256	353.40	478
324.05	4063	333.10	974	344.30	166	353.95	2268
325.00	272	334.00	9081	344.95	592	354.20	2073
325.70	509	335.10	2983	345.85	1518	354.80	165
326.40	124	336.30	699	346.10	2086	355.15	1355
327.00	1183	338.70	202	346.95	900	356.20	504
328.00	1482	340.00	600	350.90	453	357.70	91
328.20	620	340.45	725	351.40	89	358.10	119
329.90	93	341.05	1717	352.05	4602	359.00	473
331.05	246	341.60	384	352.80	478	359.50	319

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.05	273	370.50	163	383.20	644	396.00	78
362.00	333	371.05	1200	383.90	204	400.25	222
362.80	256	372.15	7834	384.10	350	400.60	124
363.00	137	373.15	1562	384.90	382	402.05	3323
363.40	398	374.00	276	387.80	136	402.70	146
364.10	256	375.90	78	389.35	415	403.10	3974
365.05	18811	376.80	151	389.80	515	403.90	618
365.70	473	377.00	80	390.20	704	404.10	636
365.95	2229	381.65	207	391.00	277	405.10	104
369.40	75	382.20	139	391.40	524	407.00	117
369.95	693	382.80	1837	392.20	552	408.30	128

Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
415.10	361	425.20	566	433.25	338	438.40	1266
417.40	94	425.90	178	433.95	1228	438.80	1310
418.15	276	427.10	110	434.65	868	439.00	1780
419.30	227	427.80	358	435.20	845	439.60	2518
421.05	5060	428.75	449	435.50	665	441.15	98712
421.80	370	429.65	343	436.00	801	442.10	577067
422.10	1822	430.10	179	436.30	636	443.10	112776
423.05	29197	430.50	146	436.70	644	443.80	684
423.90	3557	430.90	216	437.00	353	444.15	8423
424.10	3550	432.05	494	437.40	220	445.00	669
424.90	449	432.70	931	437.85	2657	445.50	121

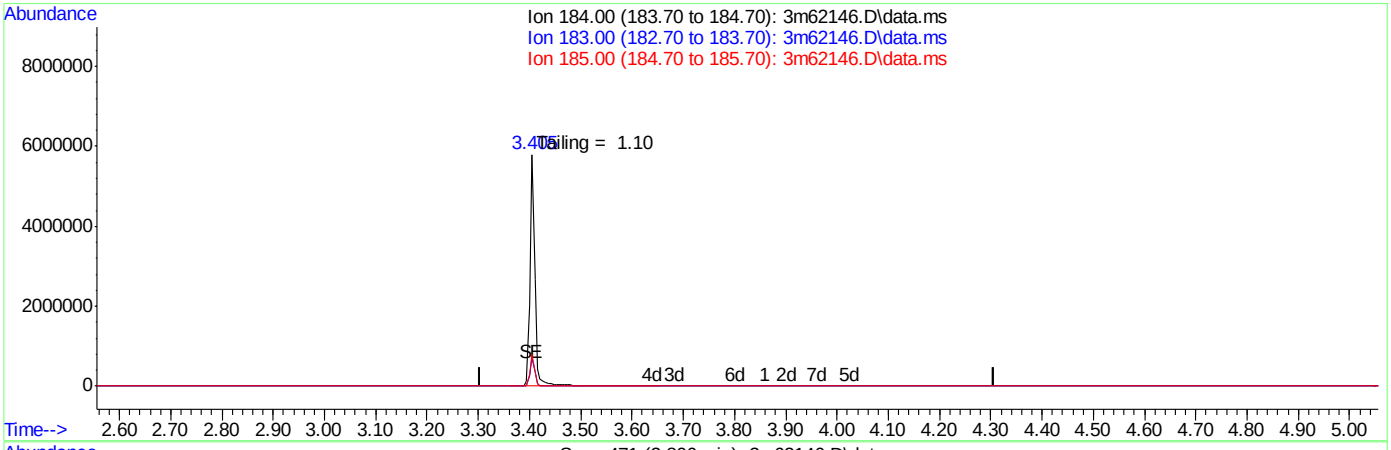
Average of 2.661 to 2.672 min.: 3m62146.D\data.ms
dftpp
Modified:subtracted

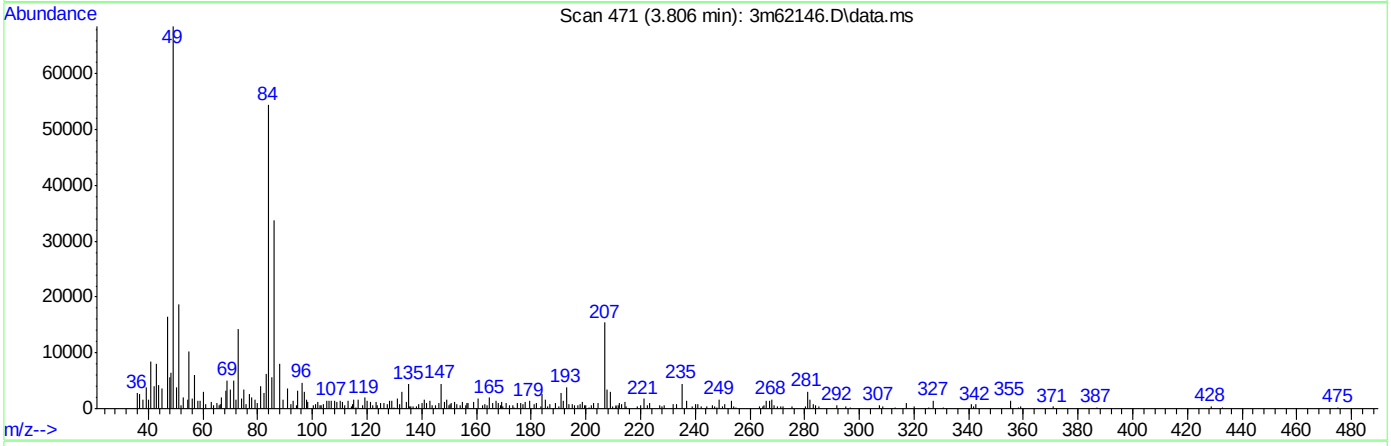
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.80	115						
475.10	172						
477.40	140						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62146.D
Acq On : 10 Jun 2016 8:33 pm
Operator : juliusj
Sample : dftpp
Misc : op94389a,e3m2930
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 20:38:02 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: 3m62146.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

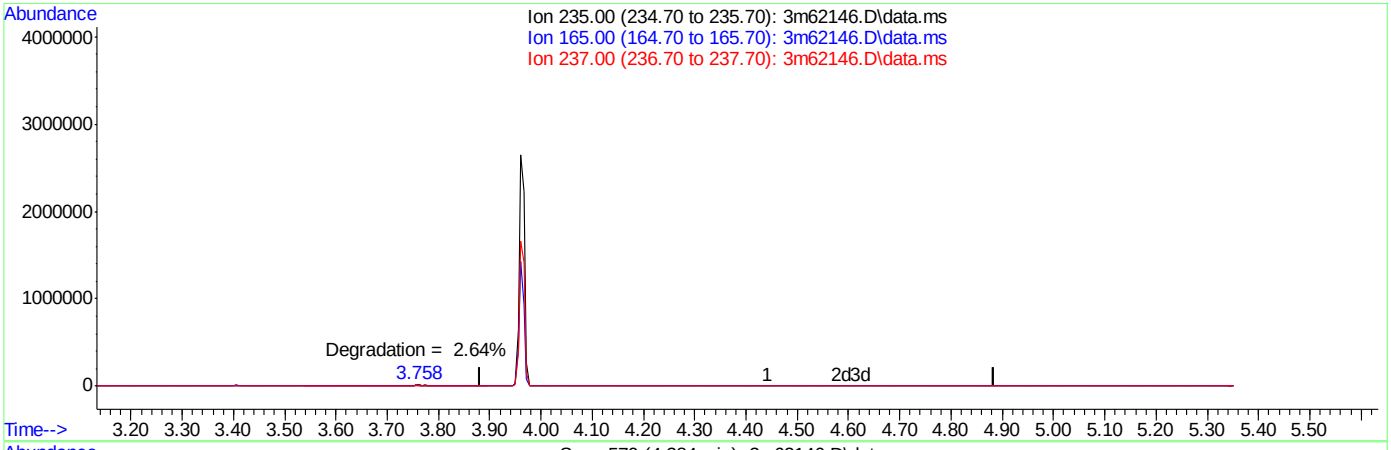
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

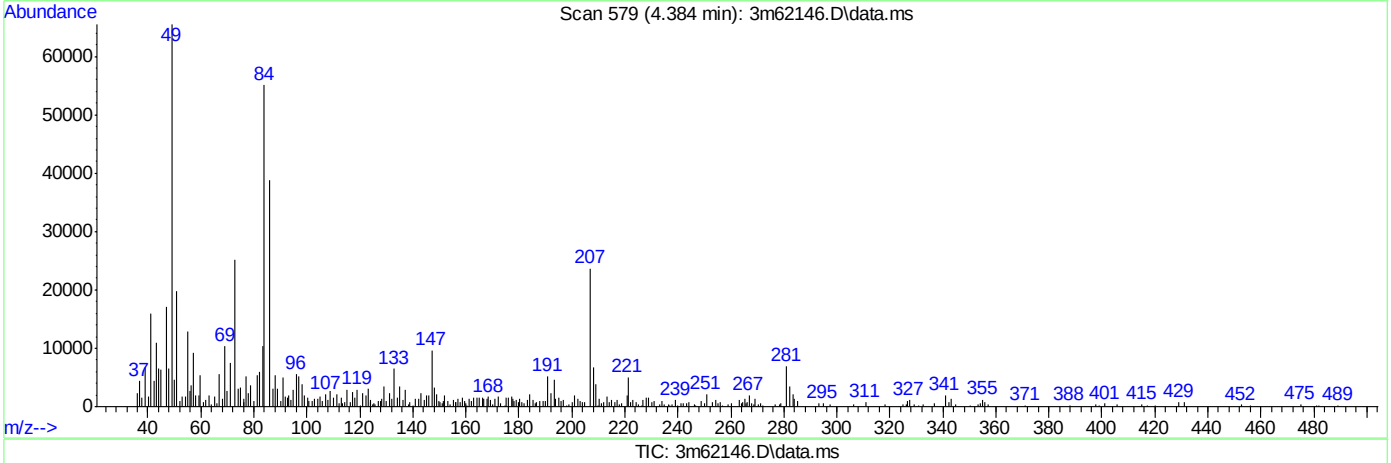
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62146.D
Acq On : 10 Jun 2016 8:33 pm
Operator : juliusj
Sample : dftpp
Misc : op94389a,e3m2930
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 10 20:38:02 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: 3m62146.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

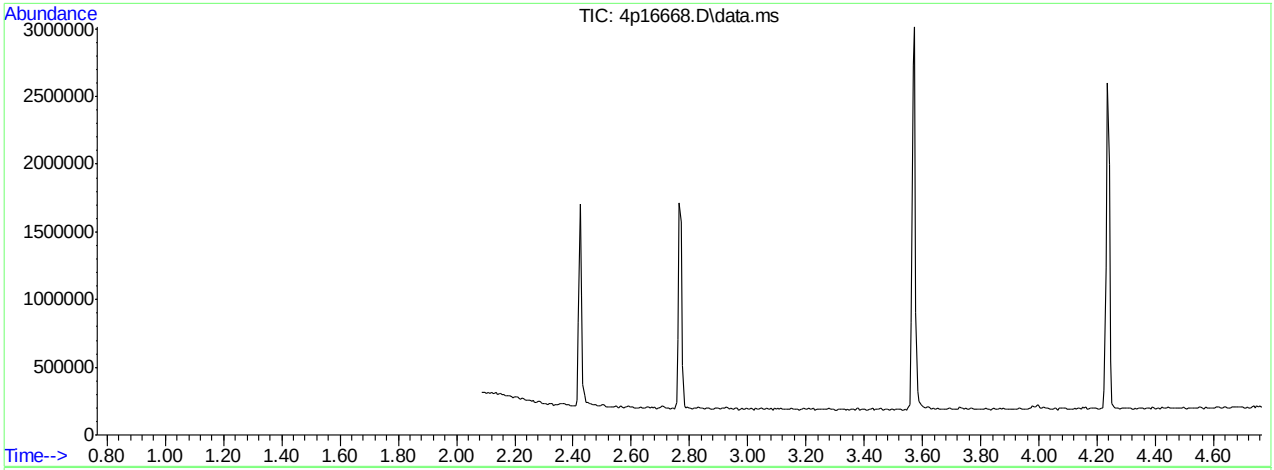
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC21229

DFTPPR

Data File : C:\msdchem\1\DATA\E4P887\4p16668.D Vial: 1
Acq On : 6 Jun 2016 9:57 am Operator: linseyk
Sample : dftpp Inst : MS4P
Misc : op94376a,e4p887 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS



AutoFind: Scans 127, 128, 129; Background Corrected with Scan 120

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.4	65770	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.9	75046	PASS
70	69	0.00	2	0.5	350	PASS
127	198	40	60	52.8	74929	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	141872	PASS
199	198	5	9	6.6	9305	PASS
275	198	10	30	18.4	26127	PASS
365	198	1	100	1.7	2425	PASS
441	443	0.10	100	83.1	12236	PASS
442	198	40	100	55.8	79101	PASS
443	442	17	23	18.6	14730	PASS

4p16668.D DFTPP4P.M Mon Jun 06 14:51:51 2016

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	351	49.00	197	58.15	153	66.15	504
38.15	1264	50.05	16136	58.70	118	67.10	207
39.05	5055	51.10	65770	59.80	108	69.00	75046
40.10	148	52.15	3110	61.05	942	70.05	350
41.05	827	52.90	182	61.50	223	71.15	173
42.05	298	53.10	158	62.05	1042	72.20	68
43.05	140	53.80	122	63.05	2754	74.00	5844
45.00	255	55.10	93	63.80	92	75.05	9909
47.00	653	56.00	2297	64.10	84	76.05	624
47.90	985	57.05	4622	64.30	325	77.05	78430
48.15	2188	57.90	110	65.10	1544	78.05	5567

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	4179	91.05	858	102.10	458	112.10	1175
80.05	3529	92.10	207	102.40	95	113.05	30
81.05	5031	93.00	6570	103.00	506	113.85	91
82.10	1935	93.90	129	103.80	428	115.10	68
84.00	96	94.15	415	104.00	1539	115.40	169
86.00	210	94.70	104	105.00	2139	116.00	1194
86.90	629	96.00	62	106.00	535	117.05	9969
87.20	274	98.05	4681	107.10	18596	117.95	521
87.90	779	99.05	4664	108.05	3344	118.60	139
88.90	294	99.95	394	110.00	42712	119.00	229
89.65	46	101.05	3011	111.05	5838	119.20	237

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.70	202	127.10	74929	136.00	670	143.00	598
119.80	68	128.05	6043	136.30	179	143.85	78
120.30	39	129.00	25782	136.60	247	144.40	423
121.10	224	129.85	226	137.00	552	145.20	325
121.50	186	130.10	1771	137.15	514	145.60	180
122.05	935	130.50	132	138.15	18	146.15	563
123.05	2041	131.10	260	139.10	40	146.40	138
124.05	902	131.95	482	139.70	137	147.05	1253
124.55	67	132.95	181	139.95	318	148.00	2710
125.00	559	134.20	672	140.95	3255	148.90	288
125.25	268	135.00	2196	142.05	940	149.20	335

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.90	105	158.20	77	165.80	254	171.40	294
150.20	28	159.15	815	166.10	682	172.00	618
150.90	206	159.80	169	167.05	5466	172.70	236
151.15	309	160.05	818	167.85	371	173.15	503
152.80	183	161.05	1633	168.05	2426	173.55	58
153.05	789	161.95	546	169.05	529	174.05	1342
153.90	972	162.60	124	169.50	212	175.05	2072
155.10	1560	162.80	21	169.80	97	175.70	65
156.15	2146	163.15	103	170.15	301	176.15	846
157.20	1176	163.90	182	170.40	118	176.70	143
157.90	283	165.05	1244	170.90	58	177.00	1099

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	4118	189.05	1199	200.05	776	207.70	293
180.10	2878	190.10	110	200.80	198	208.10	306
181.05	1129	191.05	1150	201.30	100	208.50	187
181.90	180	192.05	1801	201.55	1117	209.10	694

182.10	321	193.05	1480	202.85	157	209.70	202
182.95	374	194.10	299	203.20	1120	210.10	111
184.00	728	194.40	143	204.10	4273	210.40	10
185.15	2439	195.05	419	204.90	913	210.65	563
186.05	17084	196.10	4921	205.10	6099	211.10	1079
187.05	5715	198.00	141872	206.10	32564	211.80	162
188.20	246	199.00	9305	207.10	4159	212.30	256

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.50	84	224.10	16208	231.90	122	238.05	150
214.60	80	225.05	4199	232.20	183	238.60	92
215.05	472	225.95	500	232.85	192	239.20	52
216.20	143	227.10	5201	233.30	81	240.05	206
217.05	6301	227.70	83	233.75	182	240.35	242
218.05	1178	228.10	884	234.00	144	240.80	110
219.20	89	228.90	800	234.95	284	241.00	143
219.85	631	229.10	428	235.25	290	241.60	221
221.05	7389	230.20	156	236.15	493	242.15	1164
222.15	1170	230.80	152	237.00	623	242.80	283
223.00	1045	231.25	676	237.80	89	244.05	11461

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.00	324	251.25	42	259.00	602	265.90	280
245.15	1665	251.60	20	259.80	136	266.10	61
246.05	1821	251.80	194	260.10	171	266.40	188
246.70	71	252.30	65	260.90	41	266.90	106
247.05	414	252.60	89	261.25	187	267.70	29
247.90	155	252.80	433	261.70	159	268.00	105
248.40	128	253.30	796	262.15	261	268.30	24
248.95	414	255.05	54641	262.65	8	268.70	2
249.50	75	256.05	7982	263.30	22	269.10	41
250.00	214	257.05	891	263.95	443	269.60	52
250.80	567	258.05	2428	265.00	984	270.10	130

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.60	22	279.85	194	286.55	78	296.05	5334
270.80	87	280.45	97	288.85	125	296.70	56
271.10	371	281.40	247	289.20	11	296.95	174
271.70	172	281.60	97	289.75	147	297.20	228
273.15	2417	282.10	82	291.10	234	297.60	138
274.05	5207	282.60	126	291.70	79	298.10	190
275.10	26127	283.05	203	292.10	49	298.75	67
276.10	3217	283.80	48	292.50	142	300.80	136
276.95	1344	285.00	256	293.05	438	301.20	69
278.00	134	285.80	73	294.05	52	302.20	102
279.00	80	286.00	36	294.50	91	303.10	863

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
304.15	214	311.05	128	316.85	87	325.40	145
305.05	100	311.30	49	317.40	50	326.90	262
305.30	33	311.70	73	317.80	163	327.35	132
305.80	17	312.05	116	319.10	52	328.05	417
306.05	79	312.60	35	319.95	74	328.90	93
306.90	18	313.00	37	320.70	38	329.20	39
307.80	94	313.30	40	320.95	292	329.80	64
308.10	137	314.05	222	323.10	2361	330.00	71
308.90	132	314.50	47	324.15	128	330.30	126
310.00	72	314.80	254	324.60	42	331.00	60
310.20	193	316.10	511	324.80	76	331.90	348

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.95	231	342.20	140	350.65	75	357.00	20
334.00	1382	342.40	48	351.75	246	357.25	116
335.10	277	342.70	41	352.10	468	357.80	26
336.40	157	343.75	84	352.95	288	359.70	57
337.10	75	345.20	53	353.10	479	360.10	60
338.30	208	345.95	471	353.40	87	360.50	224
339.15	180	346.70	96	354.00	779	362.20	39
339.80	129	347.80	164	354.70	53	363.15	280
340.50	39	348.30	74	355.15	133	363.90	91
340.80	133	349.40	58	356.10	65	365.00	2425
341.30	107	350.10	217	356.75	137	365.70	59

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.95	77	372.90	78	379.45	96	387.80	137
367.05	378	373.50	59	379.95	42	388.10	42
367.60	52	373.70	53	380.80	25	388.30	79
368.10	155	374.00	83	382.70	72	388.60	70
369.00	148	374.20	21	382.95	202	389.30	49
369.70	20	374.70	44	383.85	98	389.95	23
370.30	60	375.45	80	384.60	34	390.80	68
371.10	287	376.05	84	385.70	55	391.05	96
371.70	142	376.50	18	386.20	97	391.65	169
372.10	704	376.80	48	386.70	34	392.85	86
372.50	37	379.00	26	387.20	60	393.80	3

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
394.20	23	402.10	372	408.10	91	416.80	167
395.35	66	403.05	547	409.05	18	417.10	53
396.00	24	403.70	34	409.85	100	417.60	48
396.90	30	404.20	53	410.70	47	418.55	106
397.75	66	404.40	155	411.20	82	419.30	106
398.50	69	405.15	81	412.30	80	419.50	120
398.75	122	405.90	64	413.00	161	420.50	120
399.55	86	406.20	62	413.30	52	420.80	532
399.80	96	407.10	25	413.80	60	421.20	155
400.80	91	407.35	138	414.65	90	421.50	84
401.70	164	407.80	76	416.30	24	422.05	187

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
422.40	177	429.40	109	434.50	187	443.80	99
423.05	4167	430.15	374	435.15	135	444.05	1291
424.10	1032	430.55	28	436.10	219	444.30	114
424.90	33	430.90	34	436.55	194	445.15	164
425.15	4	431.20	186	437.50	313	446.00	42
425.70	41	431.60	60	437.80	116	446.45	126
427.10	139	432.30	215	438.25	183	447.10	55
428.00	128	432.50	229	438.85	329	447.40	58
428.35	205	433.10	199	441.05	12236	447.80	69
428.70	70	433.30	154	442.10	79101	448.00	47
429.10	2	433.60	259	443.05	14730	448.30	85

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
448.95	58	461.45	146	470.25	42	479.60	104
449.20	31	462.05	56	470.85	35	479.80	36
451.00	17	464.00	34	471.40	9	481.10	37
452.60	82	464.60	26	471.70	62	481.80	138
453.20	26	464.85	69	473.65	100	482.40	102

453.45	9	465.35	72	474.60	50	482.65	49
453.80	68	465.90	70	475.40	67	483.85	177
454.90	22	466.20	33	476.30	74	484.60	102
458.80	61	467.70	86	477.40	61	485.90	22
459.30	52	468.50	3	478.20	33	486.10	64
459.70	21	469.35	120	478.40	104	487.25	66

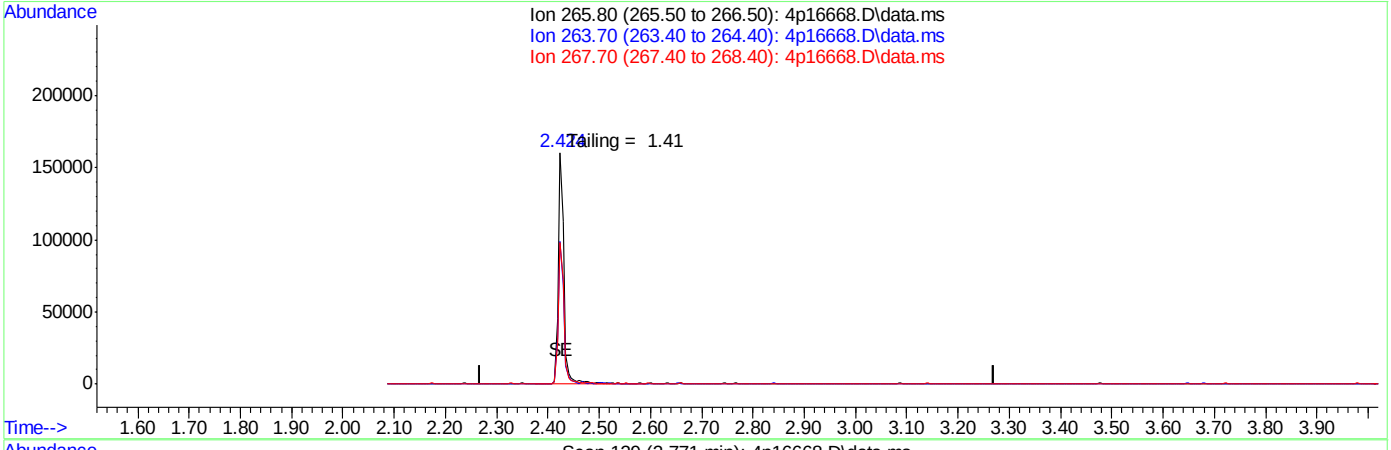
Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

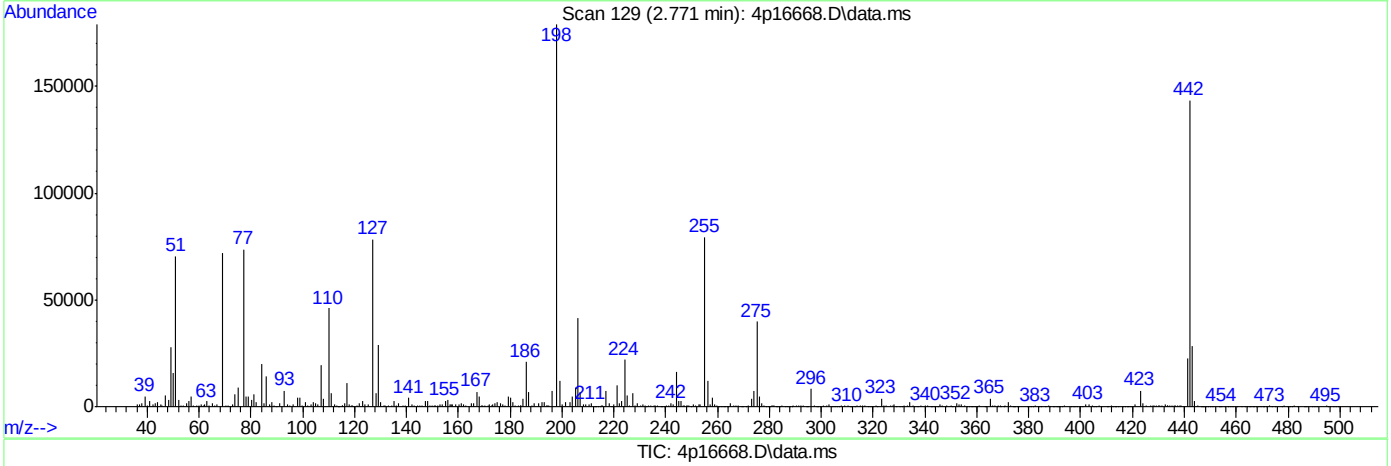
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
487.85	18	499.40	32				
489.15	63	499.80	103				
489.40	27						
490.15	89						
490.80	21						
492.90	94						
494.70	102						
495.45	32						
495.80	37						
496.10	59						
497.55	48						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16668.D
Acq On : 6 Jun 2016 9:57 am
Operator : linseyk
Sample : dftpp
Misc : op94376a,e4p887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 10:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16668.D\data.ms

(1) Pentachlorophenol (MC)

2.770min (-2.770) 0.00ng

response 0

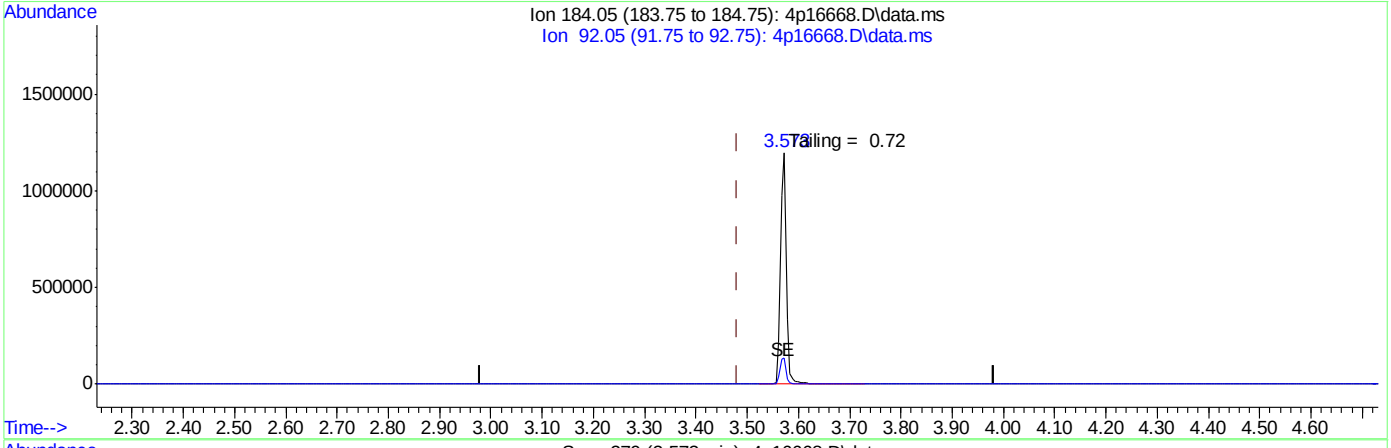
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

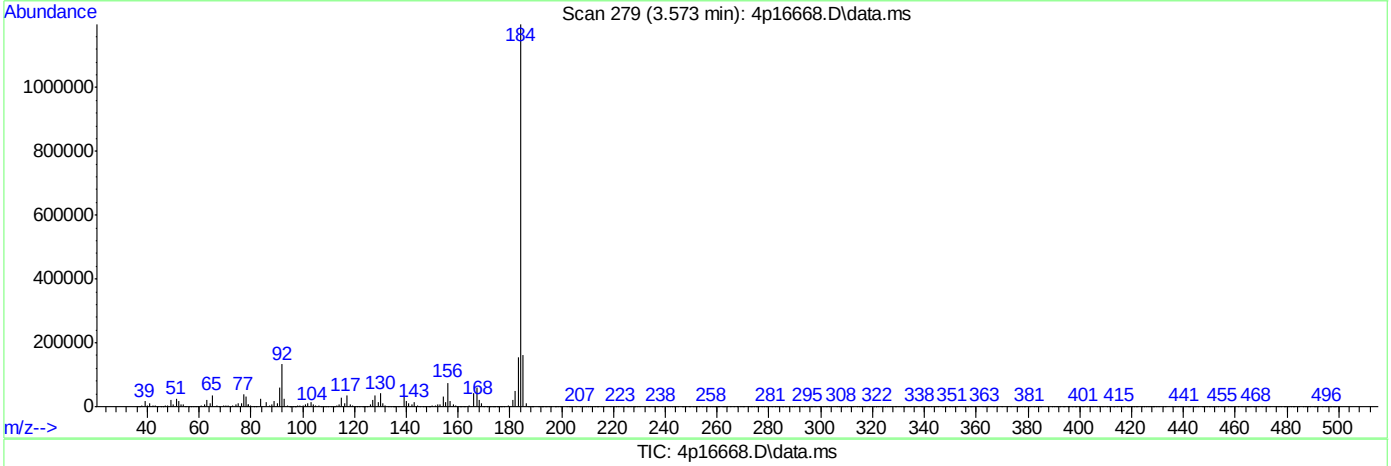
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16668.D
Acq On : 6 Jun 2016 9:57 am
Operator : linseyk
Sample : dftpp
Misc : op94376a,e4p887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 10:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16668.D\data.ms

(2) Benzidine (M)

3.573min (+0.091) 199.02ng

response 926851

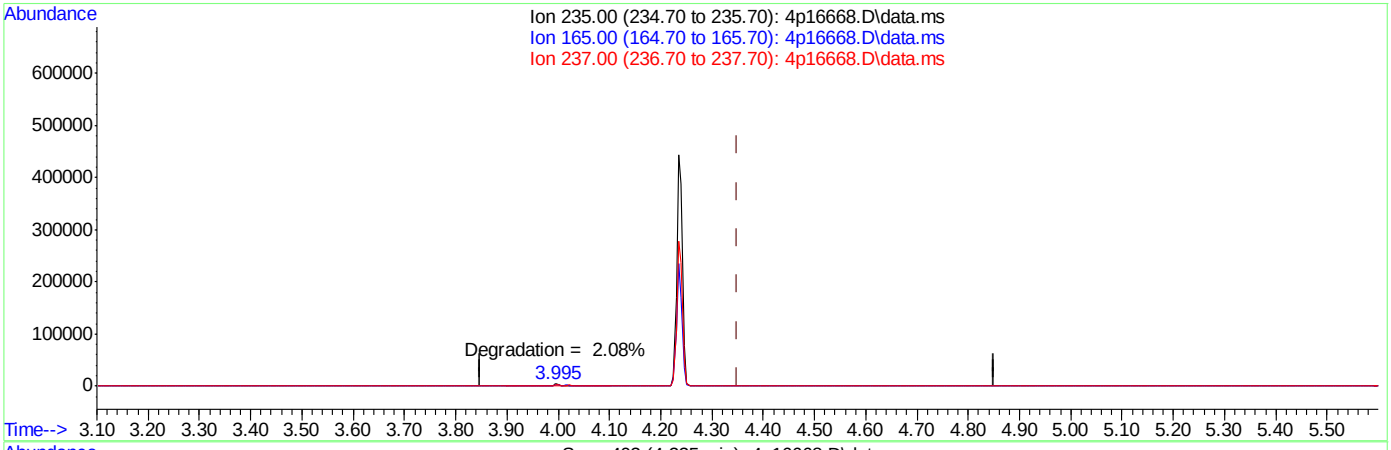
Ion	Exp%	Act%
184.05	100	100
92.05	11.10	11.08
0.00	0.00	0.00
0.00	0.00	0.00

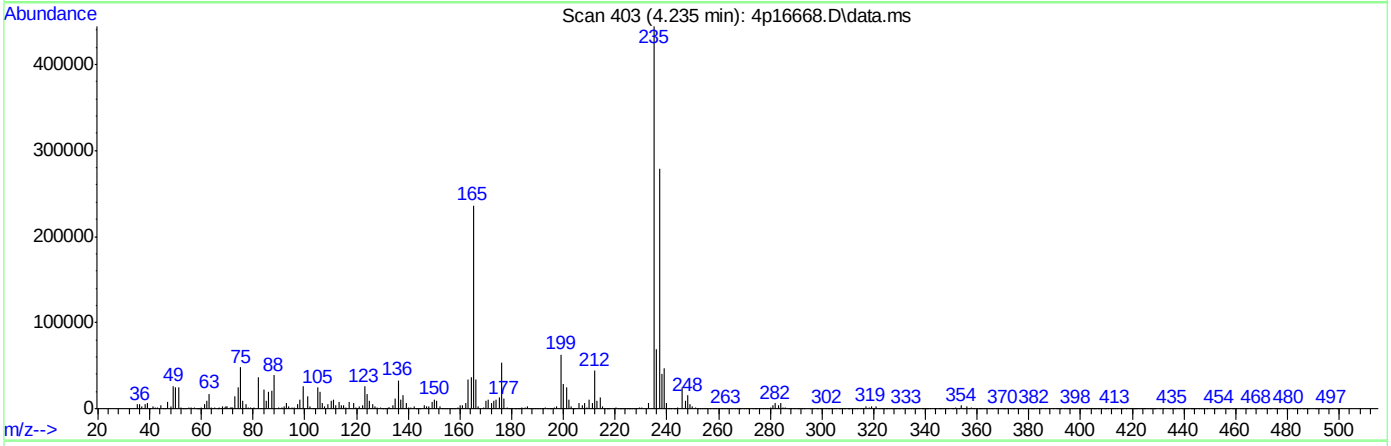
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16668.D
Acq On : 6 Jun 2016 9:57 am
Operator : linseyk
Sample : dftpp
Misc : op94376a,e4p887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 10:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16668.D\data.ms

(3) PP-DDT (MC)

4.235min (-0.115) 189.42ppb

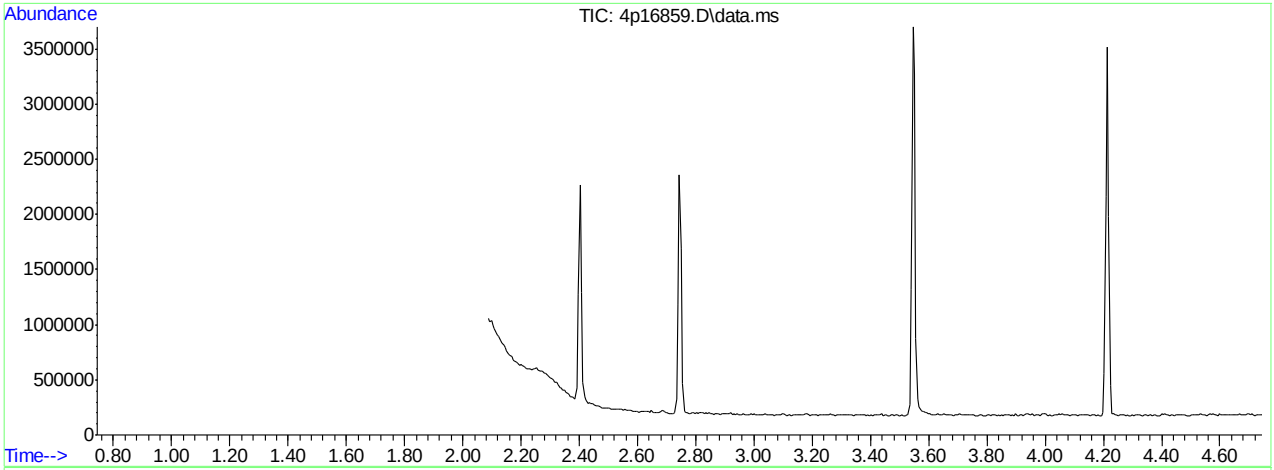
response 354185

Ion	Exp%	Act%
235.00	100	100
165.00	58.00	52.95
237.00	62.20	62.67
0.00	0.00	0.00

DFTPPR

Data File : C:\msdchem\1\DATA\E4P896\4p16859.D Vial: 1
Acq On : 13 Jun 2016 8:51 am Operator: linseyk
Sample : dftpp Inst : MS4P
Misc : op94546a,e4p896 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS



AutoFind: Scans 123, 124, 125; Background Corrected with Scan 119

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	81504	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.0	99626	PASS
70	69	0.00	2	0.4	413	PASS
127	198	40	60	50.2	98118	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	195488	PASS
199	198	5	9	6.7	13071	PASS
275	198	10	30	18.9	36988	PASS
365	198	1	100	1.8	3439	PASS
441	443	0.10	100	47.6	10985	PASS
442	198	40	100	61.0	119255	PASS
443	442	17	23	19.3	23070	PASS

4p16859.D DFTPP4P.M Mon Jun 13 11:19:02 2016

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	1792	45.90	55	58.50	289	65.15	763
36.15	597	48.20	701	59.15	203	65.90	123
36.95	1289	50.10	22853	59.90	152	66.35	432
38.00	341	51.10	81504	61.05	1110	67.05	57
38.20	946	52.10	3834	62.10	768	69.05	99626
39.15	8733	53.00	334	62.30	300	69.90	413
40.10	893	53.30	174	63.10	3237	71.05	291
41.05	965	54.30	188	63.70	249	73.25	1275
42.05	137	56.05	2371	64.05	372	74.05	7335
42.70	259	57.05	6259	64.30	281	75.10	13066
45.25	351	57.90	335	65.00	756	77.10	98087

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	7109	88.80	252	99.85	240	110.10	57467
79.05	5739	89.00	305	101.00	3199	111.00	7151
80.05	4381	89.80	88	102.60	93	112.00	1019
81.10	5728	91.00	776	103.00	170	112.95	317
82.05	1272	91.10	910	103.20	1135	113.30	188
83.05	567	92.10	1162	103.80	610	113.80	206
84.00	611	93.05	8134	104.05	2454	114.65	440
85.10	1295	94.15	1073	105.00	877	115.90	65
86.00	2093	96.10	311	107.05	27202	117.00	13773
87.00	581	98.00	7010	108.05	4380	118.00	85
87.95	133	99.00	5402	108.70	383	118.95	574

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.15	1	129.05	36338	137.05	1090	143.75	233
120.00	293	129.95	3211	137.80	240	144.25	322
120.85	357	130.95	521	138.20	188	145.15	242
121.50	201	131.20	202	139.00	188	146.00	577
122.10	1617	131.50	194	139.30	31	147.10	1880
123.05	1838	132.15	475	139.95	482	148.00	4023
124.05	807	133.10	259	141.05	4008	149.15	579
124.80	302	133.50	273	142.05	1266	150.10	205
125.10	1286	134.10	931	142.70	206	150.50	143
127.05	98118	135.05	1787	142.95	341	150.85	164
128.10	8555	136.10	1150	143.20	386	151.20	384

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.75	437	158.15	10	166.20	976	174.15	2378
152.10	357	158.75	171	167.15	7182	175.10	3170
153.05	1409	159.10	404	168.05	3256	175.90	401
153.95	643	160.05	894	169.20	767	176.25	987
154.20	350	160.50	359	170.15	425	176.50	338
155.00	1529	161.05	2110	170.40	116	177.05	1545
155.30	738	161.90	140	171.50	446	177.90	72
156.00	3209	162.15	760	171.80	160	179.05	5903
157.05	1376	163.05	78	172.05	737	180.05	3939
157.40	197	164.10	688	172.90	404	180.95	1354
157.90	407	165.00	1318	173.20	562	181.20	404

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.20	313	189.80	291	200.15	869	208.10	1007
183.00	168	190.40	156	200.85	319	209.10	191
183.25	105	191.10	340	201.60	721	209.30	342
184.00	313	192.00	1393	201.80	552	209.50	342

185.05	3801	192.20	865	202.10	155	210.10	115
186.10	22305	193.10	2044	202.95	104	210.60	506
187.05	6099	194.15	489	203.25	909	210.95	1915
187.80	215	194.75	961	204.10	6770	211.20	92
188.20	728	196.10	7088	205.10	9840	212.10	40
188.60	203	198.00	195488	206.10	44082	212.45	232
189.15	1214	199.00	13071	207.05	6358	213.00	74

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.20	134	219.55	294	229.85	250	235.05	596
214.30	236	221.05	11416	230.35	474	235.60	113
214.70	70	221.90	200	230.90	434	235.90	180
215.00	377	222.20	997	231.10	456	236.20	1
215.30	325	223.00	2144	231.35	39	237.05	904
215.65	213	223.20	734	232.05	149	238.00	97
217.00	10497	224.10	21385	232.25	228	238.95	252
217.70	249	225.10	6750	233.05	292	239.20	280
218.00	561	227.10	6660	233.70	210	239.80	34
218.20	517	228.15	964	234.10	141	240.10	410
219.15	59	229.00	1376	234.90	113	240.80	246

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
241.05	503	249.05	635	258.00	3457	265.90	41
241.60	341	250.10	595	259.10	621	266.20	278
242.05	1008	251.05	238	259.90	119	267.90	326
243.15	1391	251.65	453	260.20	248	268.15	120
244.05	17362	252.45	779	261.20	171	268.70	79
245.05	2396	253.15	313	261.50	58	269.20	139
246.05	2905	253.90	484	262.00	83	269.40	113
246.90	622	255.10	82608	263.05	455	270.05	402
247.75	166	256.05	12761	263.60	146	270.85	258
248.25	321	257.10	549	263.80	146	271.15	77
248.80	108	257.70	545	265.10	1644	272.00	207

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
273.05	2950	281.95	180	288.50	108	293.95	39
274.10	8231	282.60	176	288.80	148	294.40	365
275.10	36988	283.00	59	289.15	138	295.00	195
276.10	5209	283.10	139	289.60	120	296.00	8374
276.90	1400	284.20	281	290.00	88	296.85	313
277.10	1093	284.65	73	290.80	76	297.15	1485
278.05	638	285.00	171	291.00	95	298.20	66
279.00	155	285.20	238	291.20	24	299.35	315
279.25	187	286.15	257	291.90	493	299.60	121
280.00	294	287.10	124	292.90	555	299.95	126
280.80	68	288.30	41	293.20	235	300.75	191

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
302.95	1301	309.35	6	315.20	128	321.65	83
303.80	17	310.35	253	315.80	395	322.00	52
304.05	148	311.20	146	316.05	459	322.20	137
304.50	122	311.50	61	317.05	197	323.00	2930
304.95	216	311.90	40	317.65	91	323.70	100
305.85	98	312.45	162	318.30	44	324.15	606
306.75	176	312.95	13	318.75	172	324.90	226
307.20	74	313.30	110	319.20	35	325.45	315
307.90	44	313.80	236	319.90	127	326.80	116
308.30	321	314.30	241	320.60	118	327.10	627
309.10	27	315.00	940	321.25	259	327.70	108

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
328.15	267	336.40	99	344.90	127	351.80	100
329.00	49	336.90	61	346.00	131	352.10	1002
329.50	146	337.20	79	346.50	10	352.30	58
330.05	190	338.00	78	346.80	112	353.00	724
330.45	107	340.45	78	347.10	140	354.00	714
330.80	74	341.00	370	347.40	102	354.30	64
331.90	266	341.20	556	347.80	72	355.15	369
333.05	629	342.10	205	348.40	265	357.40	153
334.05	2021	342.35	267	349.80	44	357.60	82
334.80	371	343.10	241	350.10	137	358.40	60
336.15	325	343.80	124	351.10	97	359.05	347

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
359.40	31	365.80	88	372.15	1287	379.60	57
360.05	158	366.10	521	372.85	485	380.55	116
360.40	81	367.20	76	373.40	82	381.55	4
360.85	157	367.95	217	373.65	134	382.40	50
361.60	22	368.30	65	374.35	237	382.70	110
361.75	258	368.60	106	375.35	186	382.95	381
362.60	65	369.40	45	376.80	133	383.95	240
362.80	103	369.85	290	377.10	72	384.10	81
363.50	329	370.75	64	378.10	89	384.80	65
364.05	292	371.60	205	378.80	156	385.05	195
365.00	3439	372.00	468	379.35	128	385.40	49

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
387.00	47	391.90	145	400.40	82	405.70	75
387.30	21	392.10	91	400.70	55	407.05	83
387.95	96	394.30	179	401.00	480	407.60	55
388.30	9	395.20	35	401.70	155	408.30	144
388.75	5	395.50	60	402.05	875	408.50	83
389.20	83	396.00	75	402.50	146	409.05	123
389.50	63	396.90	38	403.05	563	411.80	57
389.80	136	397.40	77	403.30	313	412.10	97
390.00	212	398.15	161	403.60	84	413.20	48
390.70	87	398.60	126	404.05	42	413.40	140
391.50	158	398.85	150	404.90	177	413.90	155

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
414.60	19	419.70	141	427.50	61	433.10	189
415.30	144	420.65	316	427.80	279	433.35	299
416.00	111	421.15	792	428.70	124	433.80	584
416.30	92	421.80	205	429.15	24	434.40	24
416.75	153	422.15	1109	429.50	167	434.65	183
417.10	9	423.10	6730	430.00	263	435.10	126
417.45	22	423.80	211	430.60	46	435.30	36
417.90	142	424.15	1281	431.10	469	435.70	246
418.60	161	425.15	344	431.80	218	436.35	491
419.10	123	425.80	190	432.10	518	436.90	90
419.25	143	426.60	135	432.85	236	437.40	357

Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.80	196	450.60	174	459.30	56	467.15	16
439.05	307	450.95	27	459.90	200	467.70	130
439.30	418	451.75	121	460.60	48	468.00	54
441.05	10985	453.00	146	462.20	37	468.30	99
442.10	119255	454.30	185	462.55	169	469.10	41

443.10	23070	455.20	117	463.85	209	469.90	57
444.10	1827	455.70	30	464.75	108	471.50	97
445.05	183	456.75	228	465.30	34	472.15	133
445.50	35	458.00	39	465.60	63	473.20	62
448.65	221	458.30	12	466.00	80	473.55	132
449.30	92	458.70	71	466.70	109	474.70	23

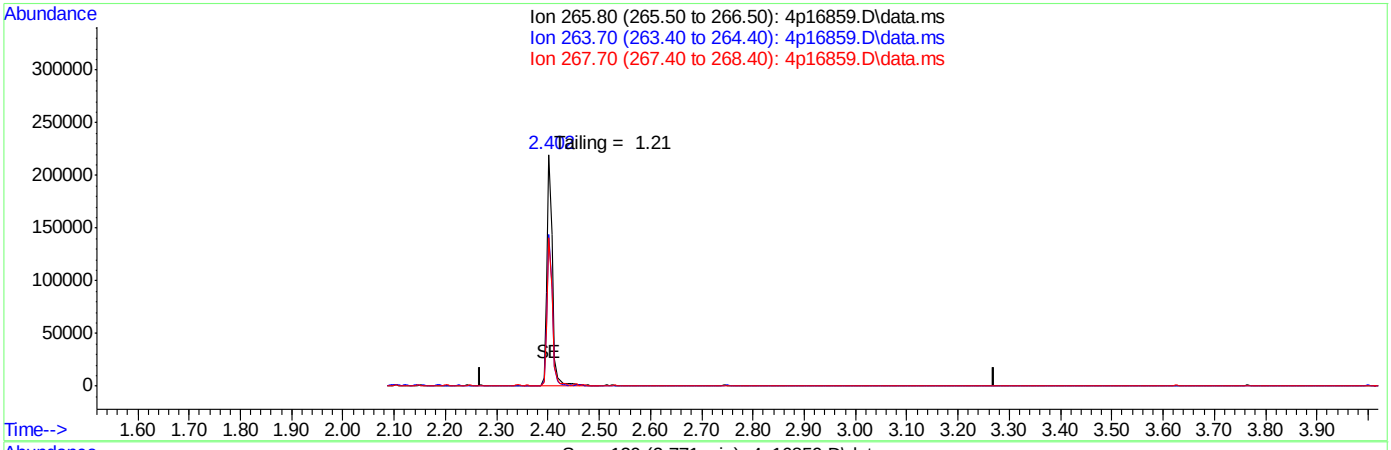
Average of 2.739 to 2.750 min.: 4p16859.D\data.ms
dftpp
Modified:subtracted

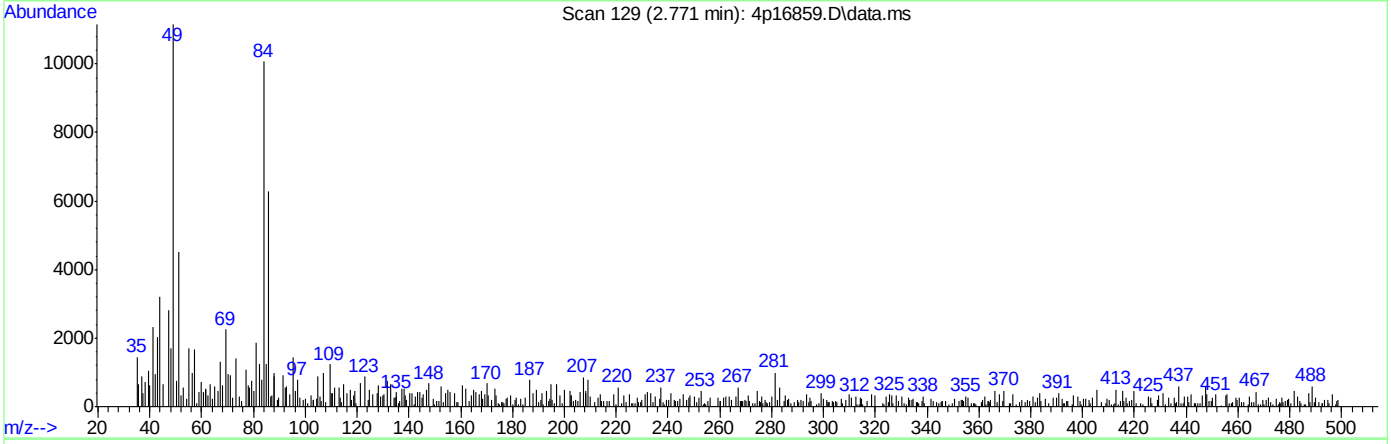
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
475.00	167	484.90	114	493.80	188		
476.30	39	486.20	86	494.70	150		
476.70	20	486.80	41	495.75	117		
478.20	73	488.05	155	496.65	221		
478.80	44	488.30	23	497.10	19		
479.20	32	489.00	188	497.90	77		
480.05	84	489.80	26	498.50	170		
482.40	62	490.40	70	498.95	108		
483.10	80	490.70	10	499.30	39		
483.40	14	491.20	174	499.55	100		
484.20	40	491.40	27				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16859.D
Acq On : 13 Jun 2016 8:51 am
Operator : linseyk
Sample : dftpp
Misc : op94546a,e4p896
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 13 08:57:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16859.D\data.ms

(1) Pentachlorophenol (MC)

2.770min (-2.770) 0.00ng

response 0

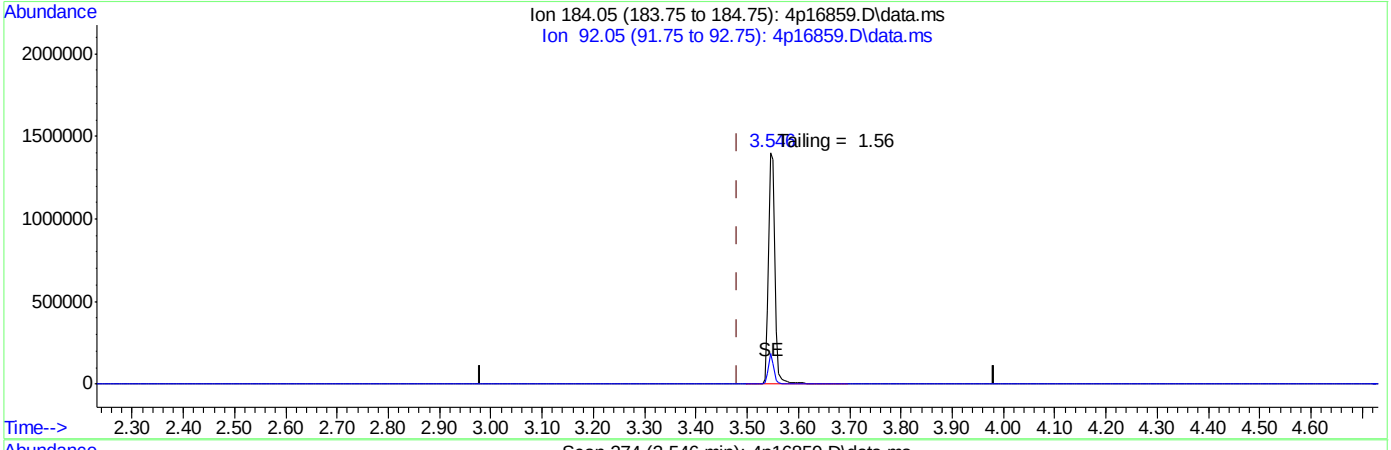
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

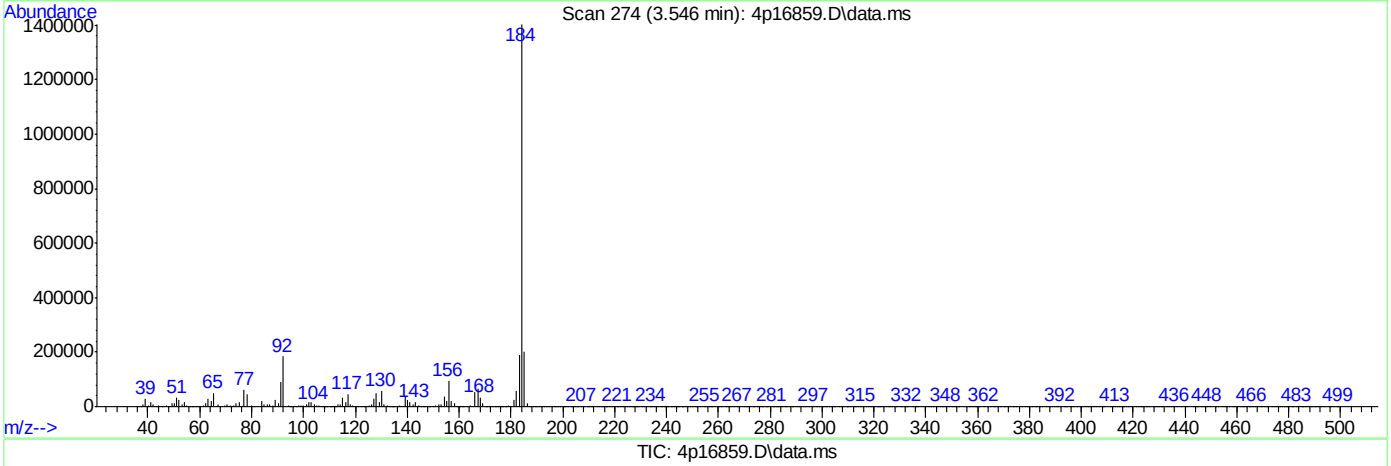
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16859.D
Acq On : 13 Jun 2016 8:51 am
Operator : linseyk
Sample : dftpp
Misc : op94546a,e4p896
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 13 08:57:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16859.D\data.ms

(2) Benzidine (M)

3.546min (+0.064) 258.10ng

response 1201979

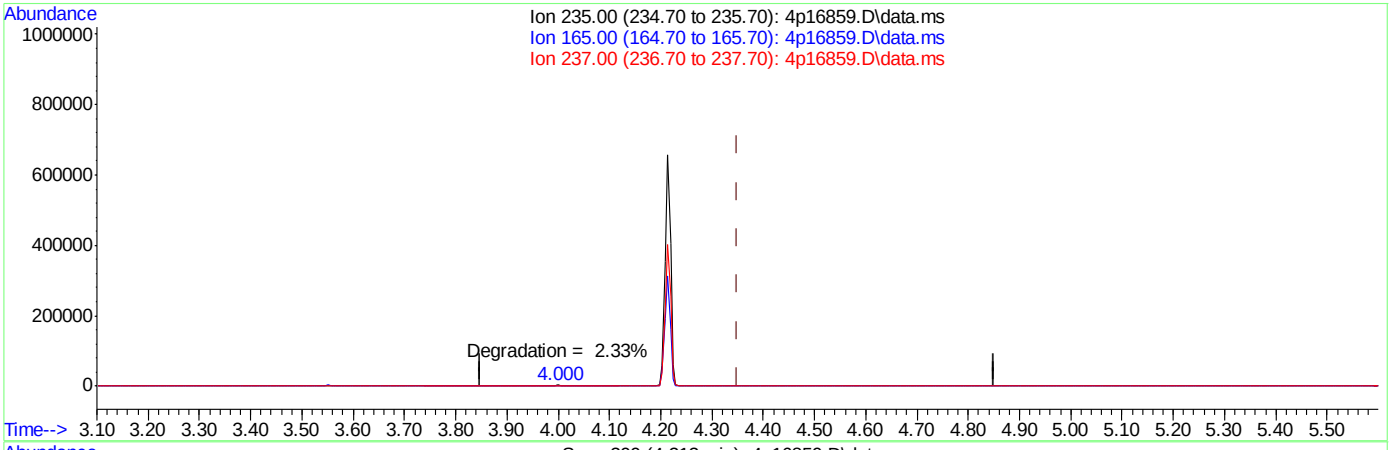
Ion	Exp%	Act%
184.05	100	100
92.05	11.10	13.16
0.00	0.00	0.00
0.00	0.00	0.00

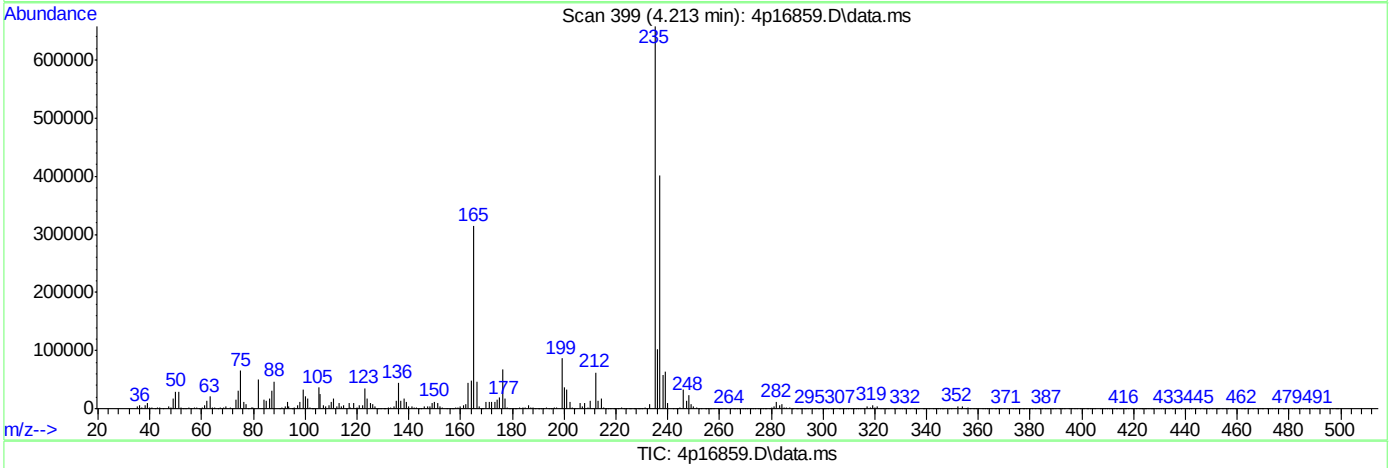
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16859.D
Acq On : 13 Jun 2016 8:51 am
Operator : linseyk
Sample : dftpp
Misc : op94546a,e4p896
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 13 08:57:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16859.D\data.ms

(3) PP-DDT (MC)

4.213min (-0.137) 264.73ppb

response 495001

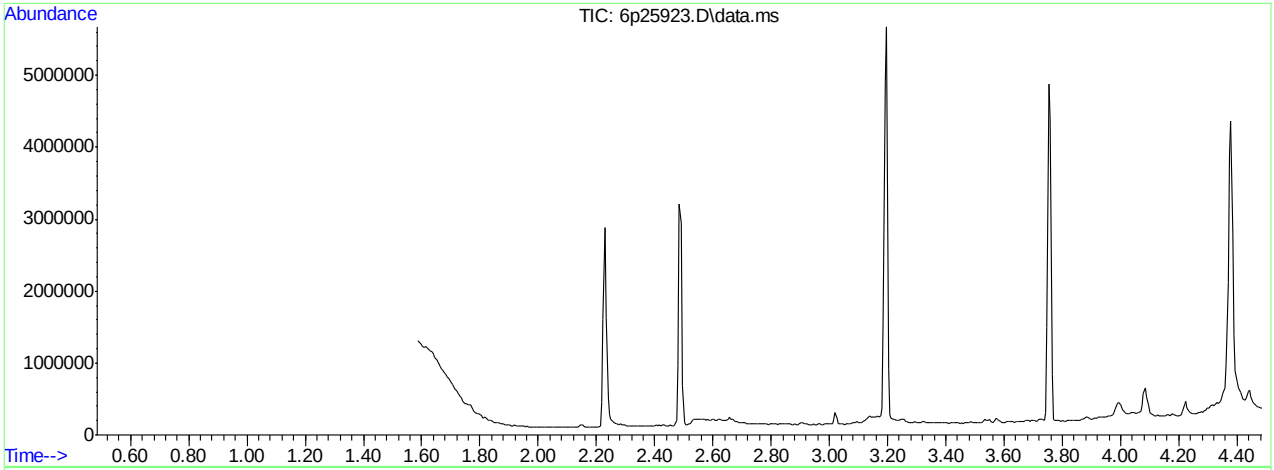
Ion	Exp%	Act%
235.00	100	100
165.00	58.00	47.62
237.00	62.20	61.10
0.00	0.00	0.00

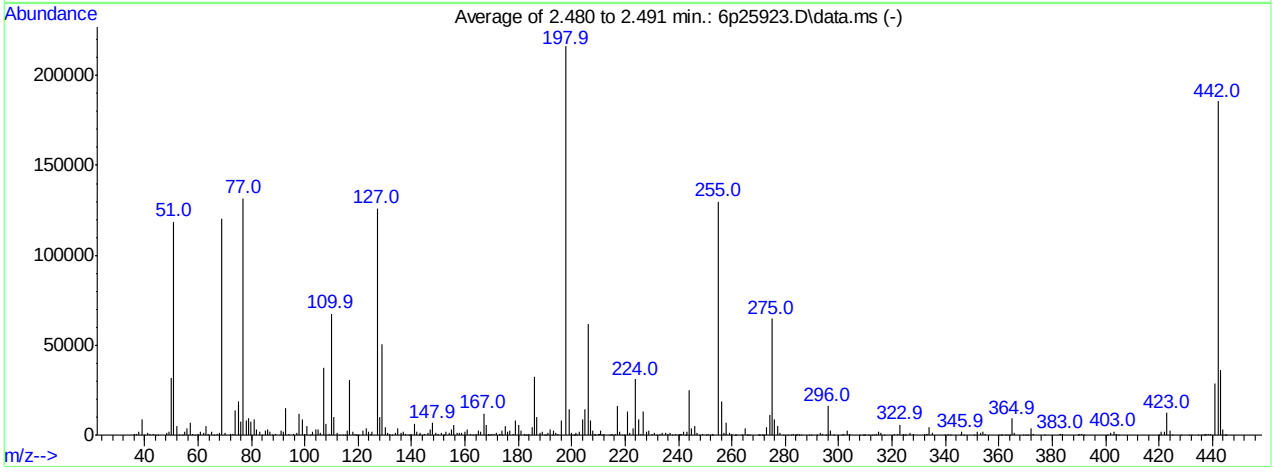
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\e6p1209\6p25923.D Vial: 1
Acq On : 13 May 2016 9:12 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1209 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 168, 169, 170; Background Corrected with Scan 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.8	118557	PASS
68	69	0.00	2	0.9	1119	PASS
69	198	0.00	100	55.7	120494	PASS
70	69	0.00	2	0.8	996	PASS
127	198	40	60	58.3	126024	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	216184	PASS
199	198	5	9	6.7	14389	PASS
275	198	10	30	29.9	64576	PASS
365	198	1	100	4.2	9081	PASS
441	443	0.10	100	79.7	28875	PASS
442	198	40	100	85.9	185597	PASS
443	442	17	23	19.5	36212	PASS

6p25923.D DFTPP6P.M Fri May 13 10:08:38 2016 ACLIMS

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	599	48.90	1879	59.95	544	72.05	340
36.90	520	50.00	31979	61.00	1665	73.00	711
37.90	1760	50.95	118557	62.00	1534	74.00	13490
38.95	9007	51.95	5318	63.00	4788	74.95	18975
39.95	278	52.95	257	63.95	758	76.05	7677
41.00	1157	54.00	57	64.95	2117	76.95	131730
41.90	342	54.95	1990	66.00	79	77.95	8392
43.00	599	55.95	4006	67.00	729	78.95	9133
43.90	5	57.00	7144	68.00	1119	79.90	7200
44.85	333	57.90	574	68.90	120494	80.90	9026
48.05	1198	58.85	90	70.00	996	81.95	3079

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	1671	95.90	836	107.00	37530	117.95	2117
83.90	42	97.05	1116	107.95	6227	119.00	401
85.00	2323	97.95	11905	109.00	631	119.20	138
85.90	3267	98.90	8441	109.90	67466	119.80	283
86.90	2059	99.90	956	110.95	9749	119.90	126
87.90	177	100.90	5182	112.00	1504	121.90	2435
88.90	506	101.85	135	112.95	279	122.95	3559
90.90	2325	102.95	1598	114.00	141	123.95	1720
91.95	1834	103.95	3399	114.95	298	124.80	440
92.95	14816	104.90	3378	116.00	2349	125.00	1884
93.90	576	105.95	1251	116.90	30820	127.00	126024

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	9771	138.90	271	148.95	1559	158.90	1041
128.90	50493	139.95	760	149.95	427	159.90	1888
129.95	4445	140.90	6411	151.05	1117	160.95	2862
130.95	1077	141.95	2196	151.80	294	161.90	829
131.95	850	142.80	246	152.00	180	163.00	245
132.60	109	143.00	1540	152.95	1967	163.95	356
133.90	1286	143.80	165	153.95	1339	164.90	2434
134.90	3996	144.90	453	154.95	3205	165.95	2088
135.95	1532	145.90	1486	155.95	5768	167.00	12139
137.00	2084	146.95	3382	157.00	1246	168.00	5837
137.90	528	147.90	6789	157.90	1249	168.80	100

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.95	945	176.85	2559	187.00	9759	196.00	7878
169.40	126	178.00	612	188.00	1114	197.90	216184
169.95	635	178.95	8222	188.90	1899	198.90	14389
170.95	534	179.95	5682	189.80	253	199.80	178
171.90	970	180.90	2603	190.10	161	200.00	1295
172.90	858	182.10	598	190.95	1167	200.90	119
173.10	375	182.80	131	191.90	3018	201.30	168
173.70	163	183.05	334	192.80	329	201.45	1139
174.00	2285	183.95	726	192.95	2819	201.90	206
175.00	5193	185.05	4223	194.00	976	202.90	1701
175.95	1965	186.00	32368	194.95	718	203.95	8917

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.00	14499	214.10	100	224.00	31075	235.00	1070
206.00	61669	214.80	133	225.00	8486	236.05	642
206.95	7820	214.95	932	226.00	849	236.90	1100
207.95	2281	216.10	531	226.90	12904	237.75	232

208.70	125	216.90	16465	227.95	2052	239.00	799
208.85	771	217.95	1979	228.95	2683	239.90	253
210.00	474	218.80	105	229.95	567	240.10	322
210.20	597	219.70	287	231.00	1164	240.80	517
210.95	2383	220.95	13024	231.90	106	241.00	565
211.40	154	221.90	1180	232.90	371	241.90	1939
211.95	459	222.95	3647	233.95	1071	242.80	223

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.00	1909	252.95	721	263.90	232	272.95	4537
244.00	24659	255.00	129861	264.90	3485	274.00	11357
244.95	3464	255.95	18778	265.70	208	275.00	64576
246.00	5303	256.95	1414	266.00	303	276.00	8816
246.90	1227	257.80	721	266.80	101	276.95	5314
247.90	71	258.00	6919	269.80	209	277.95	1062
248.95	863	258.90	1002	270.00	122	279.10	160
250.05	158	259.95	342	270.50	155	281.05	256
250.95	429	261.00	138	271.10	260	282.20	104
252.00	330	261.80	158	271.50	108	282.95	746
252.80	117	263.65	264	271.90	302	283.70	154

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
284.00	213	296.90	2350	311.10	108	324.80	137
284.80	543	298.10	114	312.60	245	325.10	131
285.00	322	301.00	148	313.10	162	326.90	1239
285.95	285	302.05	386	314.05	915	327.95	602
289.00	114	303.00	2292	314.95	2158	332.00	639
289.80	105	303.85	368	315.90	1066	332.90	652
291.90	108	304.10	277	316.90	317	333.20	357
292.90	1271	307.90	272	320.90	701	333.95	4106
293.95	398	308.90	138	321.90	452	334.90	968
295.10	104	309.40	123	322.95	5907	339.80	108
296.00	16214	310.00	306	324.05	904	340.95	939

Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.90	182	361.20	126	377.10	135	403.80	220
345.70	190	362.60	116	382.80	441	404.00	586
345.90	1746	363.40	129	383.00	681	404.90	101
346.90	299	363.90	295	383.85	389	419.80	153
350.80	318	364.95	9081	389.60	121	420.10	108
352.05	1643	365.90	1368	390.10	380	420.95	1742
353.00	1276	369.30	126	390.95	347	421.95	1764
353.95	2103	369.95	226	391.90	224	423.00	12369
354.90	456	370.80	176	400.80	155	424.00	2467
360.00	318	372.00	4002	402.00	1508	425.10	225
360.80	105	372.95	792	403.00	2137	428.30	101

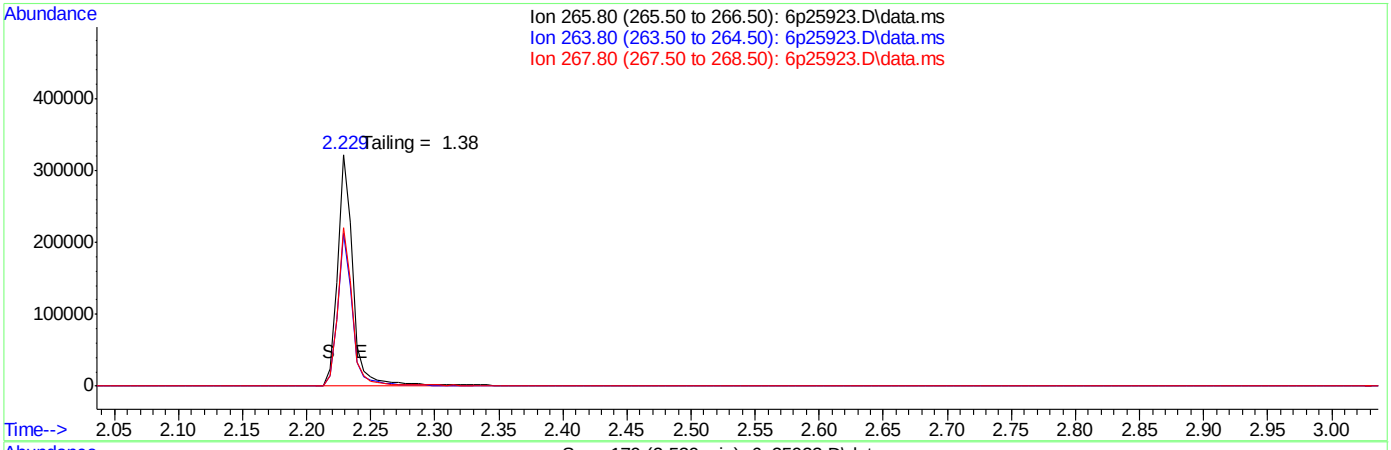
Average of 2.480 to 2.491 min.: 6p25923.D\data.ms
dftpp
Modified:subtracted

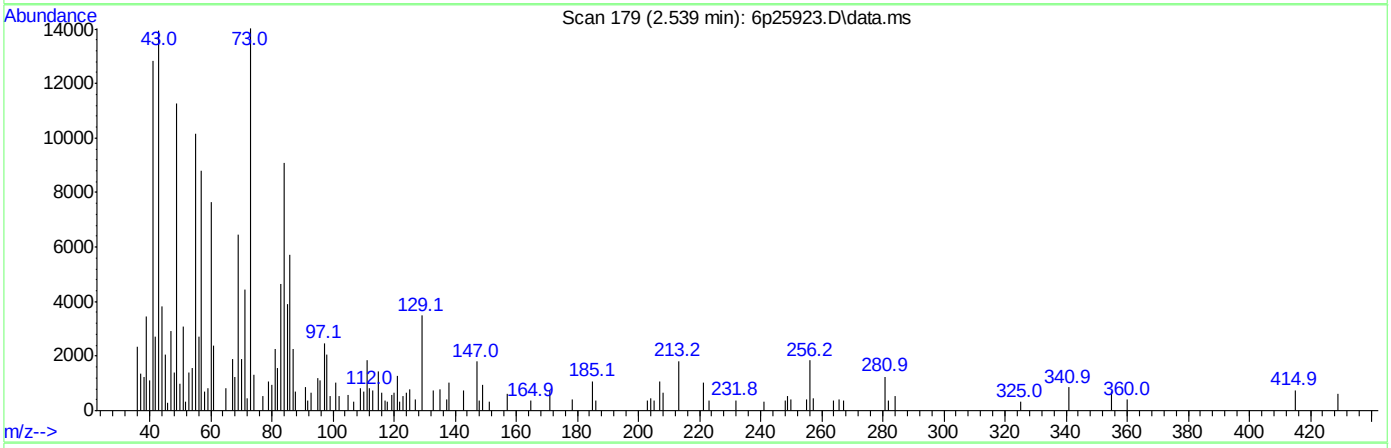
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
431.40	159	443.00	36212				
432.30	103	444.05	3362				
434.60	119	444.70	101				
435.90	128	445.00	193				
436.95	272						
437.30	185						
437.65	477						
438.35	475						
439.40	381						
441.05	28875						
442.00	185597						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25923.D
Acq On : 13 May 2016 9:12 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1209
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:17:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25923.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

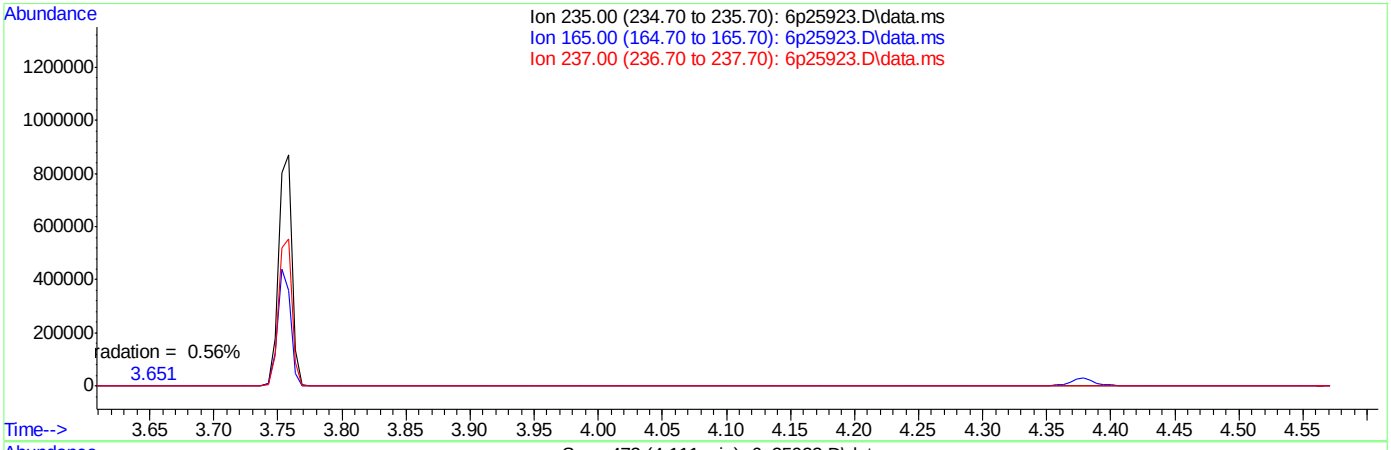
response 0

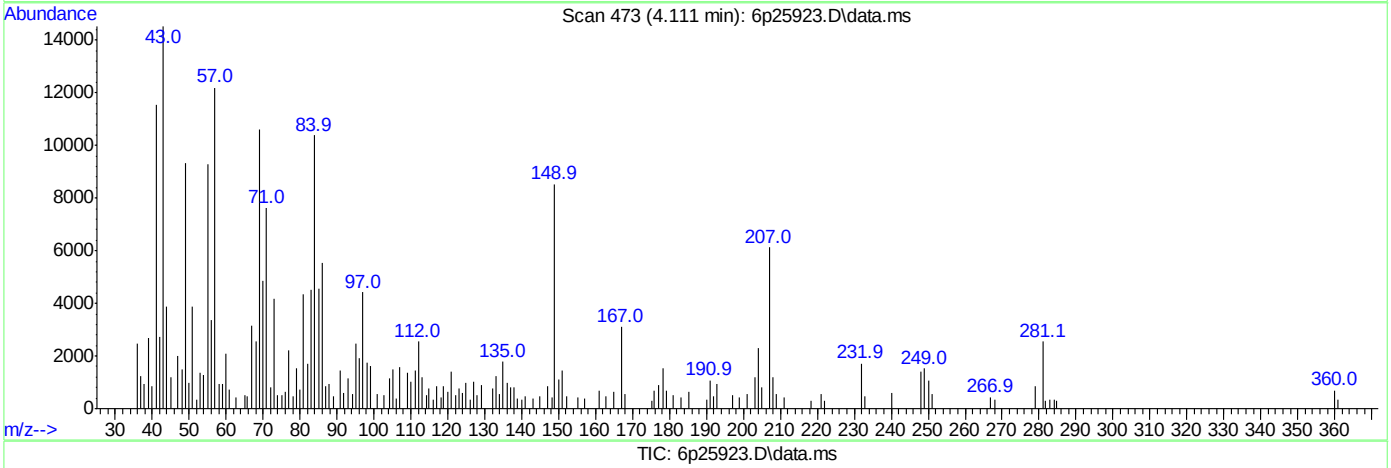
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25923.D
Acq On : 13 May 2016 9:12 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1209
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:17:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25923.D\data.ms

(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

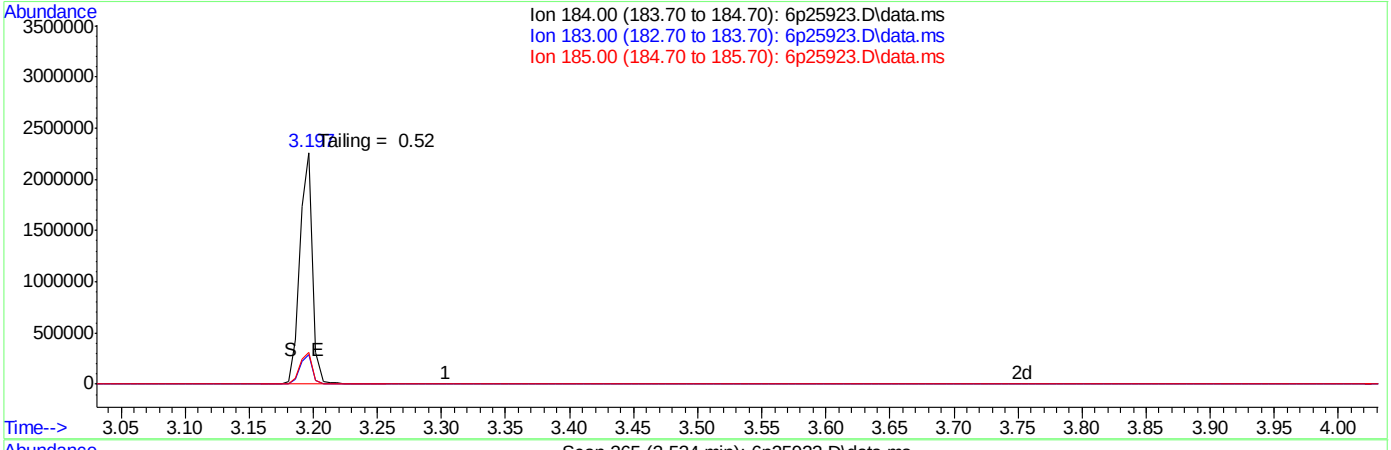
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

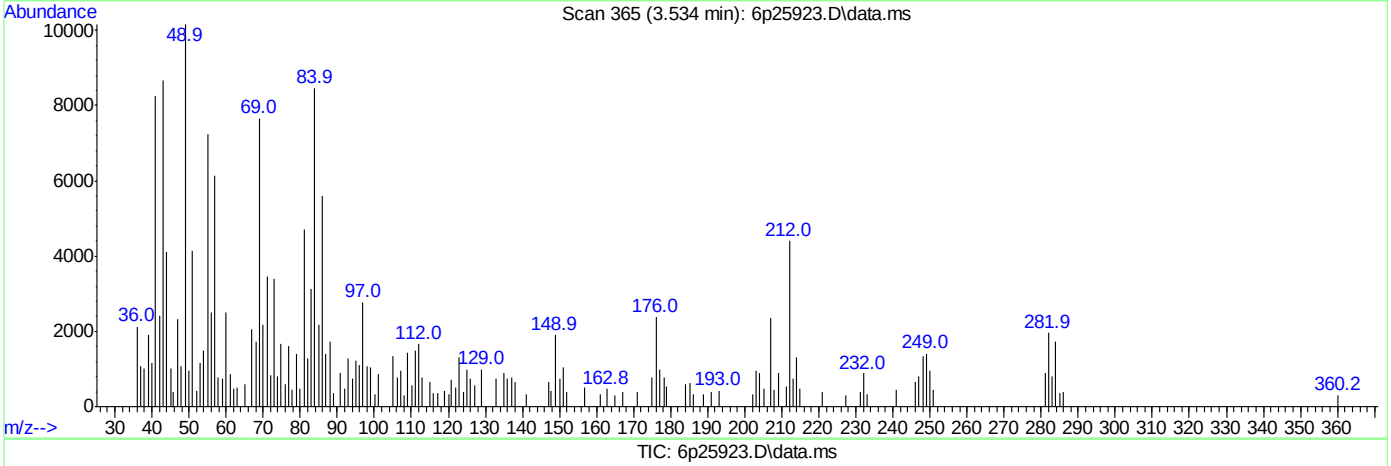
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25923.D
Acq On : 13 May 2016 9:12 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1209
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:17:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25923.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

response 0

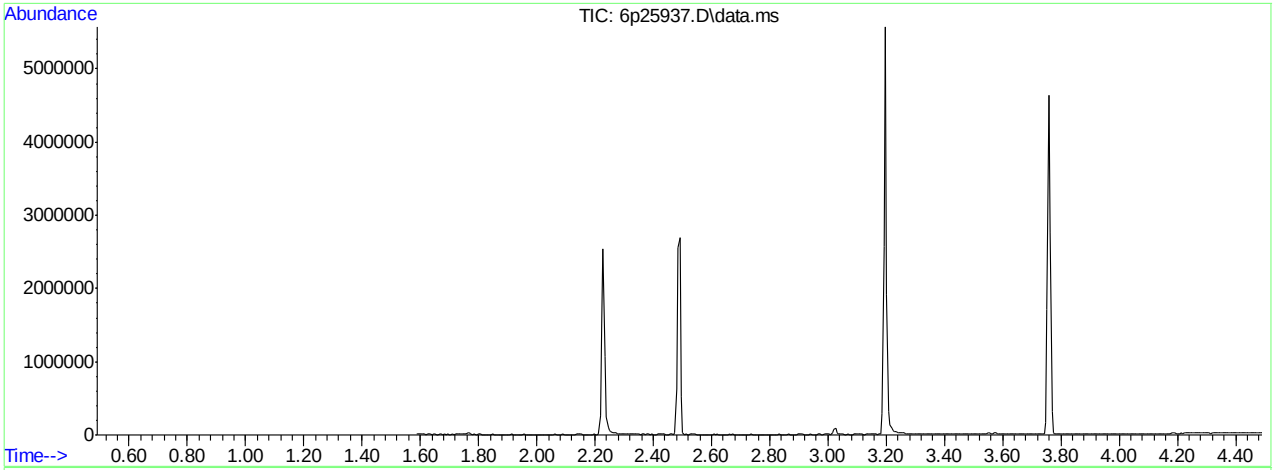
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

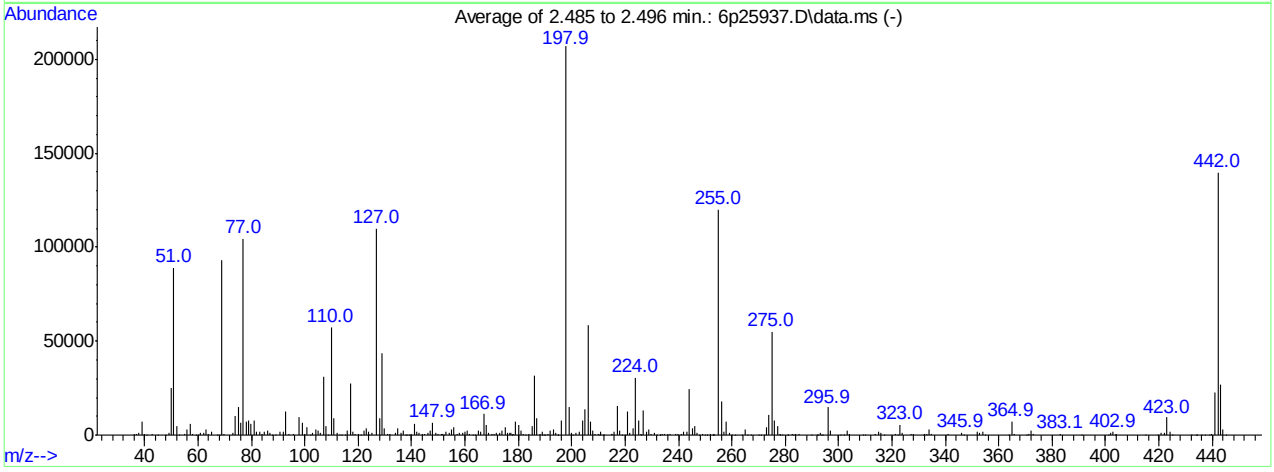
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\e6p1210\6p25937.D Vial: 1
Acq On : 13 May 2016 2:25 pm Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1210 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 169, 170, 171; Background Corrected with Scan 164

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.1	89165	PASS
68	69	0.00	2	0.2	207	PASS
69	198	0.00	100	45.0	93133	PASS
70	69	0.00	2	0.4	404	PASS
127	198	40	60	53.1	109826	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	206826	PASS
199	198	5	9	7.2	14852	PASS
275	198	10	30	26.6	54986	PASS
365	198	1	100	3.5	7287	PASS
441	443	0.10	100	84.5	22871	PASS
442	198	40	100	67.5	139682	PASS
443	442	17	23	19.4	27080	PASS

6p25937.D DFTPP6P.M Mon May 16 18:07:42 2016 ACLIMS

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	429	50.95	89165	63.00	3056	77.00	104411
36.90	321	52.00	4694	63.95	569	78.00	7017
37.90	1193	52.90	101	65.00	1542	78.95	7676
39.00	7184	55.00	674	67.00	225	79.95	5719
39.90	599	55.90	2803	67.90	207	80.95	7705
40.90	80	56.95	5868	68.90	93133	81.90	1906
42.95	349	57.90	350	69.90	404	82.95	1772
45.00	110	59.00	114	73.00	1071	83.90	354
47.90	132	60.00	114	74.00	10437	84.90	1826
48.95	1065	60.95	1311	75.00	14815	85.90	2349
50.00	24953	61.95	1143	76.00	6302	86.95	1029

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.95	243	102.00	107	113.00	238	123.70	166
88.85	216	102.90	1407	114.00	119	123.95	1646
90.90	1655	103.95	3019	114.90	154	124.95	1318
91.90	1994	104.90	2483	116.05	2342	127.00	109826
92.90	12470	106.00	1116	116.95	27473	128.00	8787
93.90	820	107.00	31092	117.90	1654	129.00	43395
95.90	613	108.00	4678	119.00	328	129.95	3482
98.00	9454	108.90	133	119.90	393	130.85	690
98.90	6815	110.00	57418	120.80	174	131.85	324
99.95	787	111.00	8759	122.00	2437	134.00	1153
100.90	3910	112.00	1123	122.95	3368	134.90	3323

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.90	1505	146.00	1205	155.90	4386	166.95	11095
137.00	2125	147.00	2562	156.85	799	168.00	5612
137.75	310	147.90	6660	157.90	1056	168.95	963
138.10	117	148.90	1394	159.00	934	169.95	580
138.95	287	149.95	387	159.95	1629	170.80	467
139.95	687	151.00	754	160.95	2553	171.85	927
140.95	6203	151.60	400	161.85	799	172.95	1440
141.95	1635	152.00	263	162.80	100	173.95	2278
142.95	1337	152.90	1708	163.70	286	175.00	4022
143.90	348	154.00	1499	164.90	2182	176.00	1379
144.85	348	155.00	3122	166.00	1926	176.80	1134

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1259	187.00	8871	195.00	108	206.95	7229
177.70	128	187.95	763	196.00	7586	207.95	2114
178.00	877	188.90	1773	197.90	206826	208.90	398
178.90	7073	189.10	135	198.90	14852	209.90	815
180.00	5572	189.80	249	199.95	1283	210.30	124
180.95	2614	190.00	137	200.50	142	210.60	804
181.95	426	190.90	811	201.45	1456	210.95	1781
182.70	283	191.95	2667	202.90	1710	211.70	215
183.95	765	193.00	3137	204.00	8006	212.10	201
185.00	4619	194.00	933	205.00	13566	214.80	332
186.00	31574	194.80	259	206.00	58437	215.00	344

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.95	1572	226.00	109	235.90	816	247.85	240
216.95	15321	226.95	13030	236.95	843	248.95	872
217.90	2153	227.90	2107	238.90	586	249.80	154
218.90	167	228.95	2788	239.95	491	250.80	260

219.90	275	229.85	441	240.95	529	251.85	418
221.00	12574	230.95	1011	241.95	1575	252.90	273
221.70	1388	231.80	125	242.95	1814	253.10	401
222.95	3653	233.00	189	244.00	24313	253.30	117
224.00	30697	233.20	134	245.05	3339	255.00	120093
225.00	7819	233.90	810	245.90	4921	256.00	17738
225.80	385	234.85	912	246.90	943	256.90	1635

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.95	7042	273.00	4171	283.10	107	300.80	111
258.90	1312	273.95	10917	283.95	364	301.90	122
260.00	127	275.00	54986	284.95	895	303.00	2201
261.00	105	275.95	7858	289.80	143	304.00	647
263.90	114	276.95	4721	291.80	112	309.00	120
264.90	3045	277.80	306	292.10	162	310.00	124
266.00	274	278.00	597	293.00	1109	313.90	859
267.10	118	279.00	168	293.70	130	314.95	1643
270.20	111	280.90	133	293.90	241	315.95	1256
270.90	304	281.10	138	295.95	14871	316.90	114
272.20	100	282.80	525	296.95	2195	321.05	434

Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.00	197	345.95	1376	371.90	2702	420.95	1250
323.00	5552	346.90	123	372.95	788	421.90	433
323.95	924	352.00	1641	383.05	848	422.20	1441
326.95	907	352.90	1455	390.95	243	423.00	9384
327.95	573	354.00	1759	401.10	180	424.00	1854
331.70	121	354.85	304	401.90	1114	425.05	288
332.05	361	363.80	149	402.85	1518	432.10	130
332.85	663	364.90	7287	403.70	104	433.65	235
334.05	3272	365.90	788	404.00	433	434.40	109
334.90	837	370.60	124	415.00	135	435.80	106
341.05	728	371.05	413	419.50	108	437.30	158

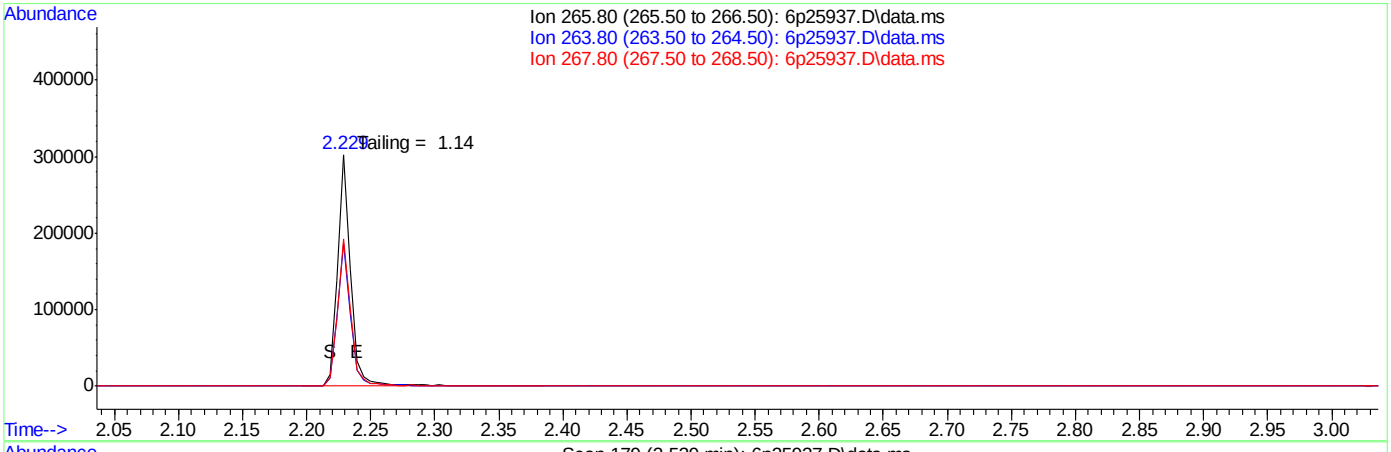
Average of 2.485 to 2.496 min.: 6p25937.D\data.ms
dftpp
Modified:subtracted

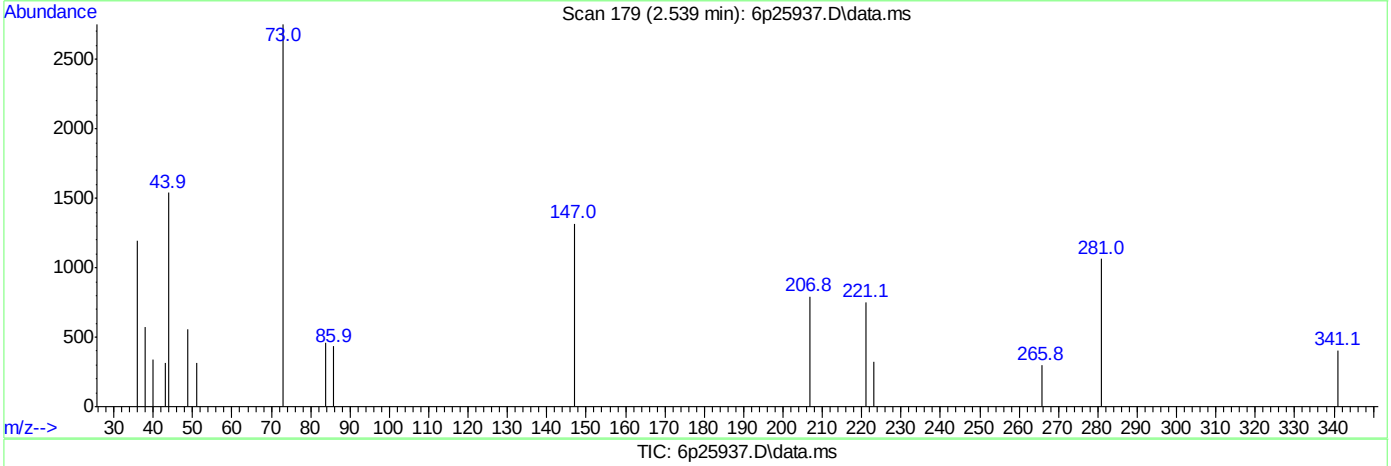
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
439.00	308						
439.85	402						
441.00	22871						
442.00	139682						
443.00	27080						
444.00	2972						
445.00	138						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25937.D
Acq On : 13 May 2016 2:25 pm
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1210
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 14:30:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25937.D\data.ms

(1) Pentachlorophenol (t)

2.536min (-2.536) 0.00ppb

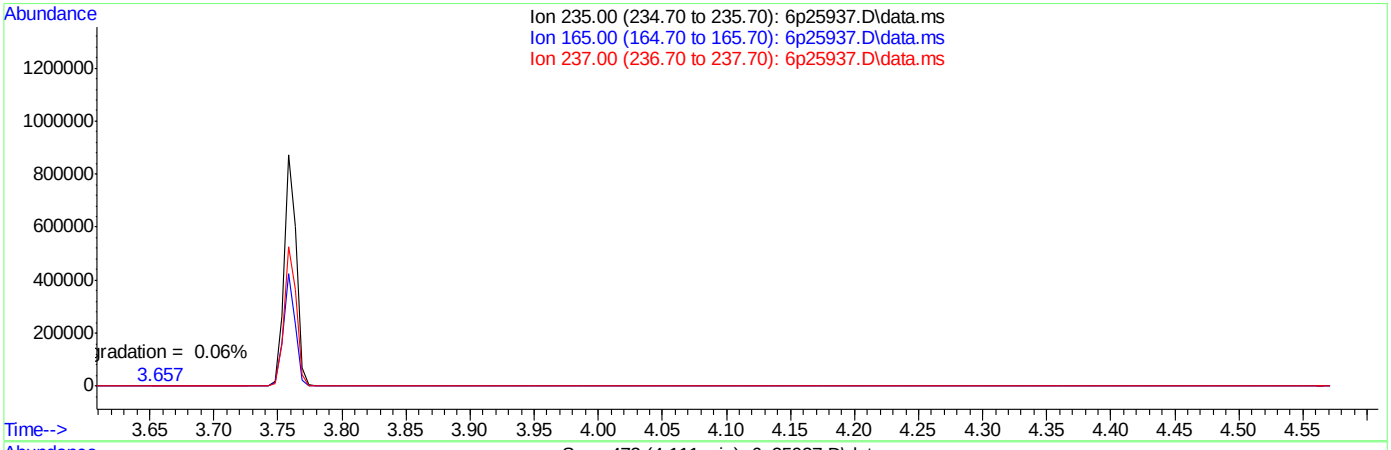
response 0

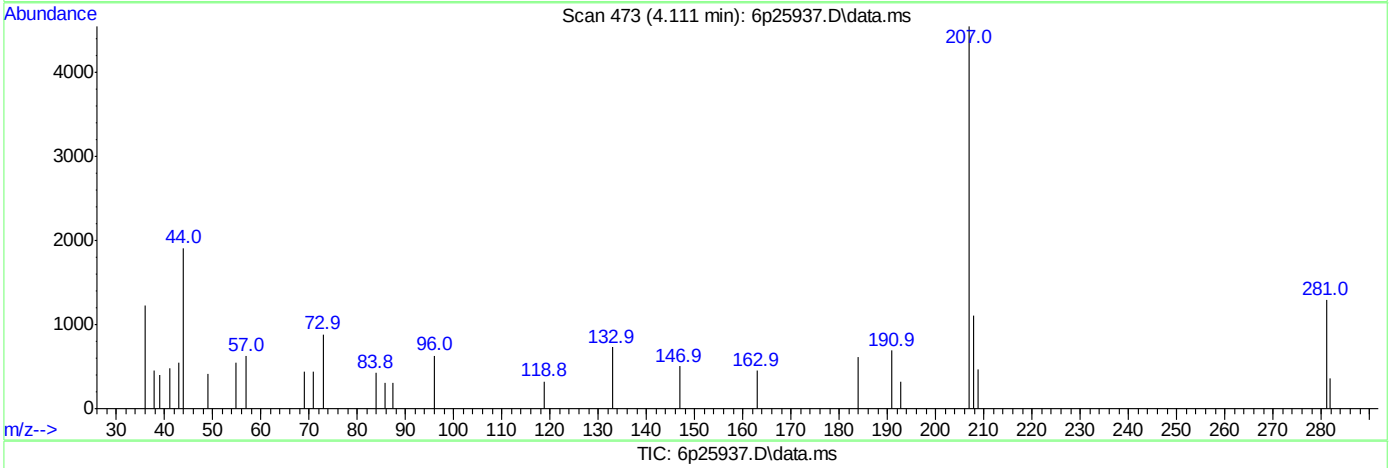
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00#
267.80	62.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25937.D
Acq On : 13 May 2016 2:25 pm
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1210
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 14:30:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25937.D\data.ms

(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

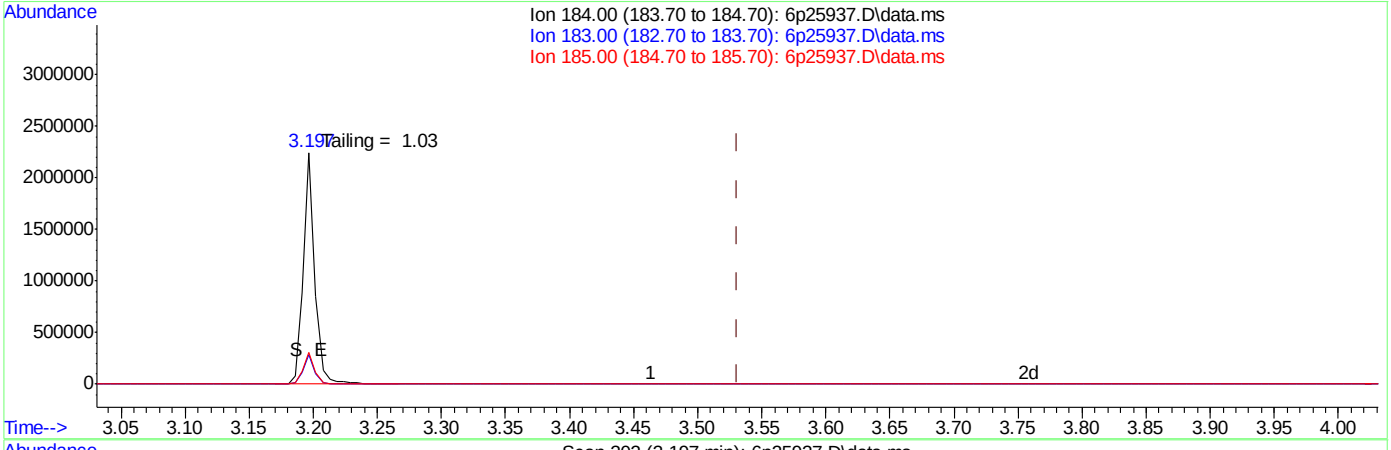
response 0

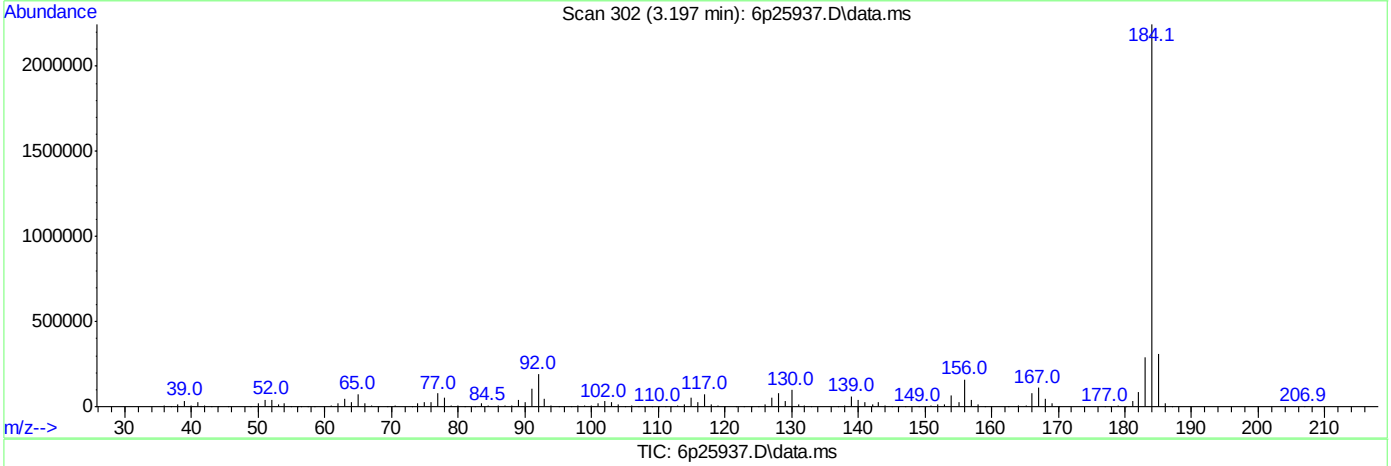
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25937.D
Acq On : 13 May 2016 2:25 pm
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1210
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 14:30:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25937.D\data.ms

(2) Benzidine (t)

3.197min (-0.334) 0.00ppb m

response 1426118

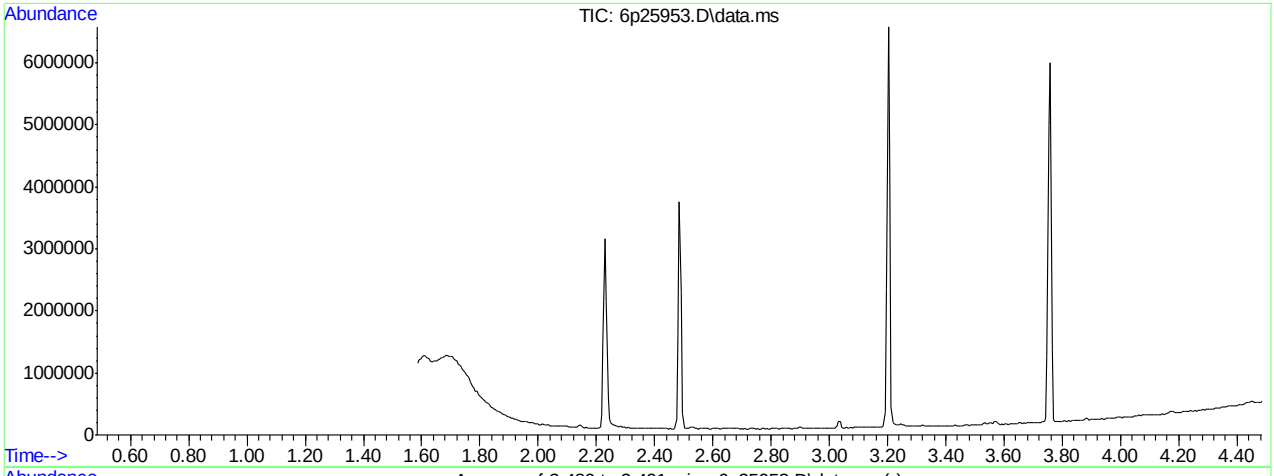
Ion	Exp%	Act%
184.00	100	100
183.00	11.10	12.80
185.00	13.90	13.81
0.00	0.00	0.00

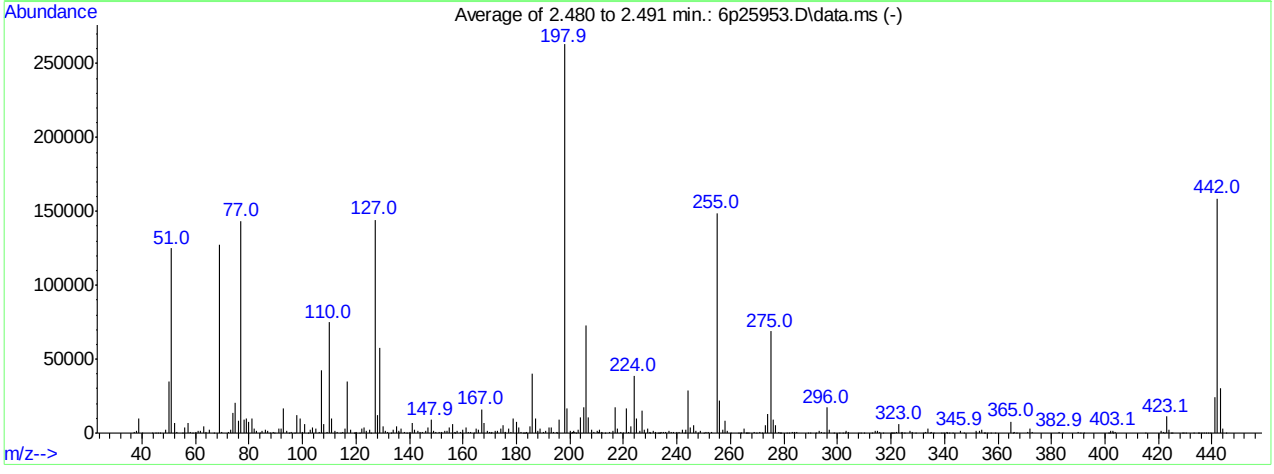
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E6P1211\6p25953.D Vial: 1
Acq On : 16 May 2016 8:59 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1211 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 168, 169, 170; Background Corrected with Scan 163

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	125051	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	127610	PASS
70	69	0.00	2	0.5	625	PASS
127	198	40	60	54.9	144274	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	262997	PASS
199	198	5	9	6.2	16343	PASS
275	198	10	30	26.2	68986	PASS
365	198	1	100	2.9	7608	PASS
441	443	0.10	100	81.1	24632	PASS
442	198	40	100	60.4	158754	PASS
443	442	17	23	19.1	30379	PASS

6p25953.D DFTPP6P.M Mon May 16 09:06:17 2016 ACLIMS

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	578	52.00	6689	63.90	674	78.00	9493
37.95	1815	52.90	476	64.95	2564	79.00	10151
38.95	9790	54.95	268	66.95	241	79.95	7401
39.95	190	55.95	3812	68.90	127610	80.90	10240
43.90	51	57.00	7224	69.95	625	81.95	2751
44.90	398	57.95	694	72.10	422	82.95	1848
46.00	121	58.95	56	73.00	2281	83.90	415
46.90	153	59.95	524	74.00	13412	84.90	1522
48.90	2001	61.00	1816	74.95	20431	85.90	2594
49.95	34577	61.95	1902	76.00	8372	86.95	1688
50.95	125051	63.00	4346	77.00	143614	87.90	243

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.00	423	99.85	957	110.95	10254	121.10	219
89.30	129	100.95	5859	111.90	1595	121.95	2935
90.95	2880	101.90	269	112.95	481	122.95	3752
92.00	3255	102.95	2268	114.20	101	123.95	1762
92.95	16749	103.90	3668	114.95	629	124.90	1949
93.90	1332	104.90	2930	116.00	2993	125.60	314
94.90	298	106.05	1077	116.90	34880	127.00	144274
95.90	678	107.00	42680	117.95	2625	128.00	12272
96.95	82	108.00	6231	119.10	375	128.95	57493
97.95	12224	109.05	1136	119.80	119	130.00	4486
98.95	10068	109.95	74856	120.05	738	130.85	1385

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.95	616	142.00	2195	152.00	492	161.95	1009
132.95	273	142.95	1829	152.95	1843	162.90	531
133.95	2090	143.95	485	153.95	1689	163.90	223
135.00	4441	144.95	497	155.00	3491	164.90	2734
135.80	23	146.00	1397	156.00	6066	165.90	2406
136.00	1521	147.00	3751	156.80	224	167.00	16279
136.95	3215	147.95	8821	157.05	1121	168.00	7174
138.00	502	148.90	1866	157.85	1635	168.95	1531
138.80	182	149.95	584	159.00	1161	169.85	476
140.05	684	150.95	1146	159.95	1970	170.30	295
141.00	6929	151.70	384	160.95	3618	170.85	621

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.95	1199	181.00	3667	189.90	842	200.60	168
172.80	448	181.85	698	190.95	1298	200.90	459
173.00	1411	182.70	214	192.00	3472	201.45	1482
174.00	2849	182.90	135	192.90	3871	201.80	441
175.00	5312	183.40	181	194.00	506	202.00	241
175.80	945	183.95	953	194.90	214	202.95	2328
176.00	1158	184.95	4731	195.10	897	204.00	10676
176.90	2804	186.00	40410	195.95	8817	204.95	17640
177.90	1123	187.00	9931	197.90	262997	206.00	72728
178.90	9899	188.05	1209	198.95	16343	207.00	10833
180.00	7648	188.95	2714	199.95	1621	208.00	2236

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.95	933	218.95	492	229.80	148	237.95	426
210.05	1626	220.00	305	230.00	561	238.85	649
210.60	591	221.00	17041	230.95	1787	239.85	468
211.05	2687	221.70	1141	232.00	487	240.90	977

211.65	844	222.90	4457	232.80	165	242.00	2275
212.00	231	224.00	38656	233.00	113	242.80	381
213.10	113	225.00	10135	233.70	153	243.10	2274
214.95	864	226.10	1421	233.95	1091	244.00	28498
215.95	1920	226.95	15117	234.85	1126	245.05	3772
216.90	17630	227.95	2653	235.85	876	246.00	5389
217.90	2750	228.95	3361	236.95	1191	246.90	1470

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.00	225	260.10	143	270.90	516	281.80	119
248.85	1186	263.10	100	271.75	264	282.90	609
250.00	178	263.70	121	272.90	5073	284.00	424
250.95	668	263.95	400	274.00	13120	284.95	1156
251.85	527	264.95	3264	275.00	68986	288.90	122
253.00	1166	265.70	180	276.00	8829	289.90	119
255.00	149002	265.90	223	276.95	5592	291.85	361
256.00	22323	266.40	145	277.90	882	292.95	1389
257.00	2089	266.90	1	278.60	109	293.95	503
257.90	8543	268.85	481	278.90	155	294.90	405
258.95	1265	269.85	290	281.05	67	296.00	17237

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
297.00	2332	313.95	1259	324.05	836	338.80	227
298.70	122	314.90	1909	325.00	303	339.80	110
300.85	252	315.95	1090	326.90	1558	340.90	172
301.95	322	317.00	117	327.85	923	341.00	428
302.90	262	320.00	108	329.00	118	341.95	370
303.05	1909	320.50	124	332.10	353	342.95	316
304.05	525	320.80	258	332.95	633	345.95	1734
307.95	228	321.10	177	334.00	3381	347.05	287
308.75	230	322.00	487	334.80	126	351.80	100
309.85	381	323.00	6409	335.05	965	351.95	1808
312.95	321	323.70	186	336.00	148	353.00	1578

Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.00	2504	372.00	2992	403.05	1529	429.50	112
354.70	154	372.95	896	403.95	658	430.00	219
355.00	224	382.95	840	415.20	109	433.20	151
356.10	104	384.05	244	420.95	1308	434.65	306
357.10	124	390.00	421	421.90	703	435.40	117
358.80	129	391.00	294	422.20	195	436.00	103
365.00	7608	391.90	107	423.05	11026	437.10	108
365.80	179	401.15	273	424.05	2530	437.80	171
365.95	907	401.80	172	424.90	171	438.50	265
367.00	120	401.95	1199	425.10	221	439.35	344
371.05	626	402.90	174	428.90	156	441.05	24632

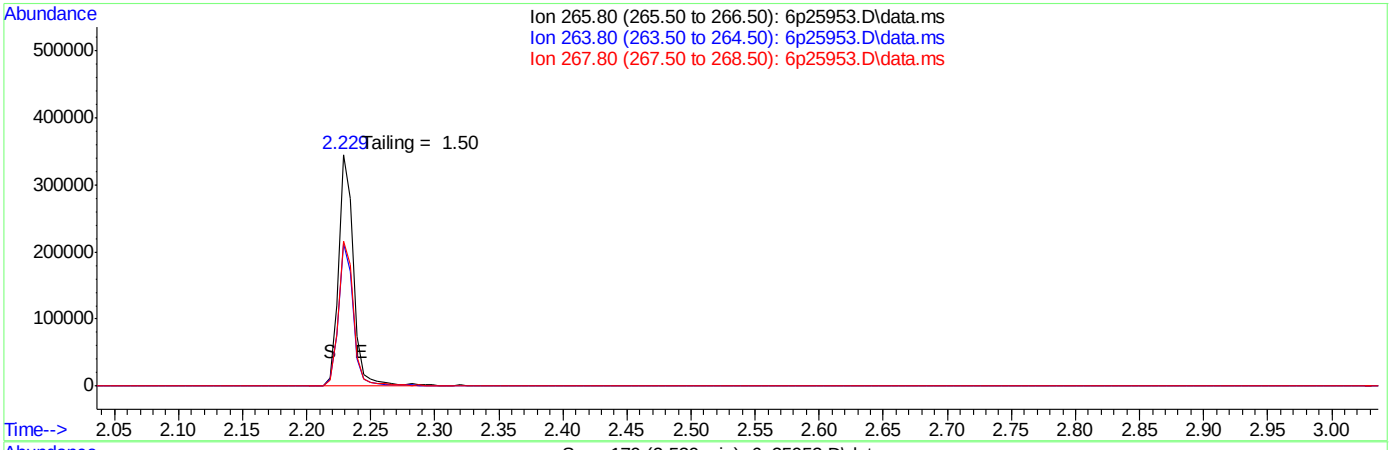
Average of 2.480 to 2.491 min.: 6p25953.D\data.ms
dftpp
Modified:subtracted

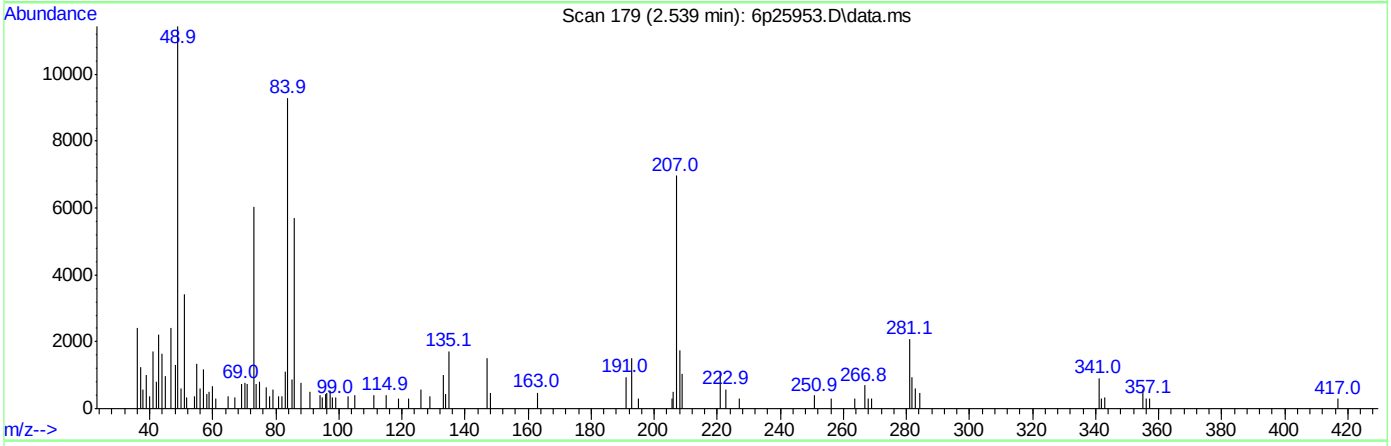
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.00	158754						
443.05	30379						
444.00	2934						
445.10	130						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25953.D
Acq On : 16 May 2016 8:59 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1211
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:04:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25953.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

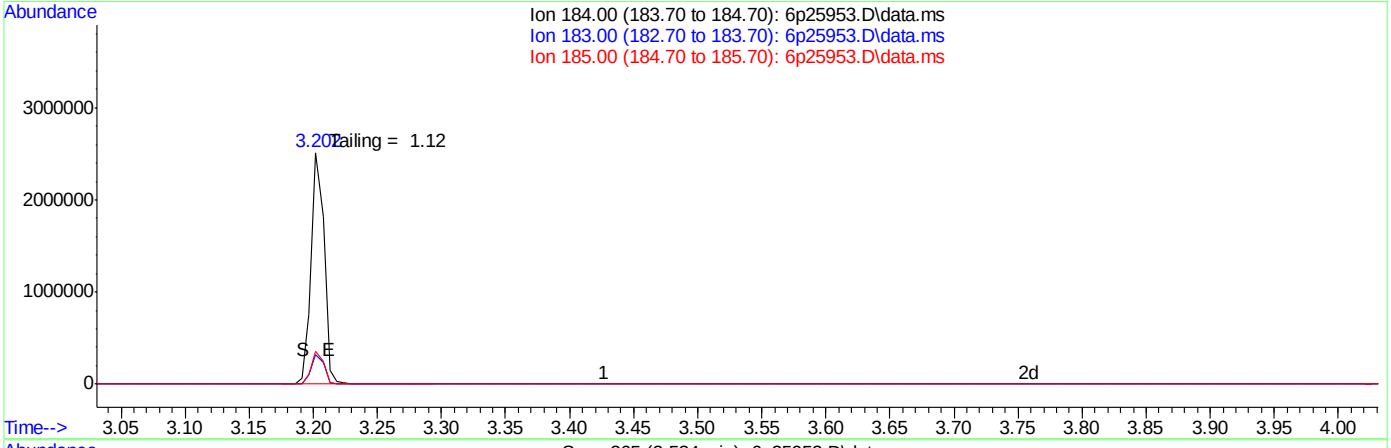
response 0

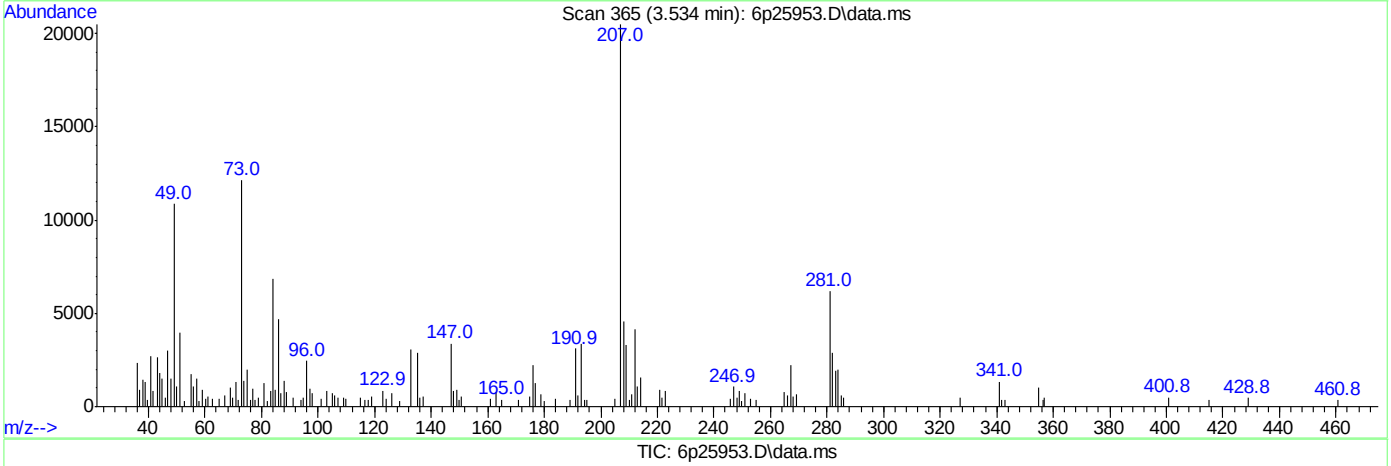
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25953.D
Acq On : 16 May 2016 8:59 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1211
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:04:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25953.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

response 0

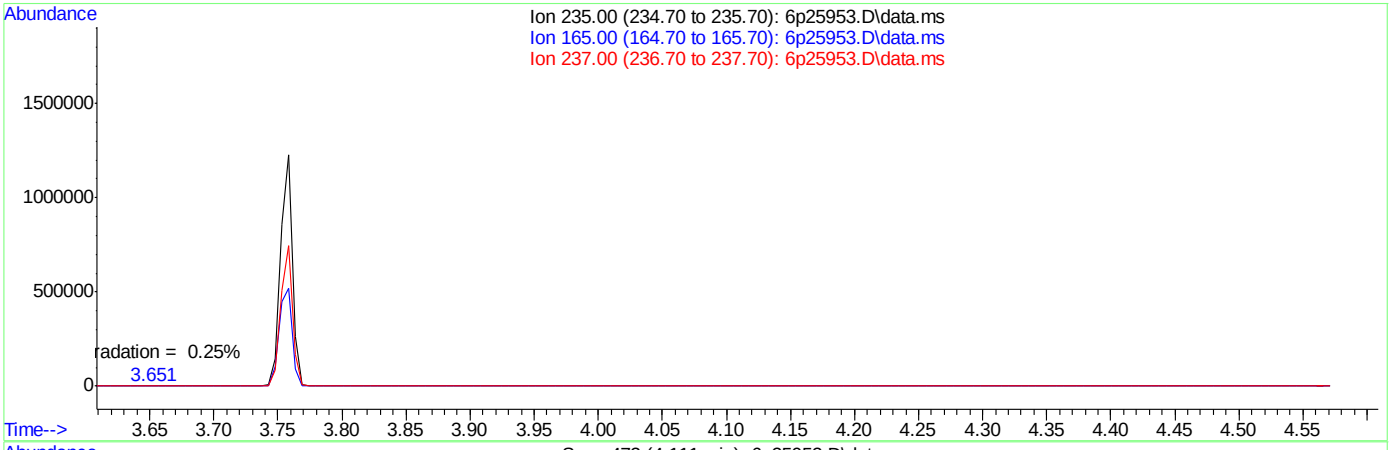
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

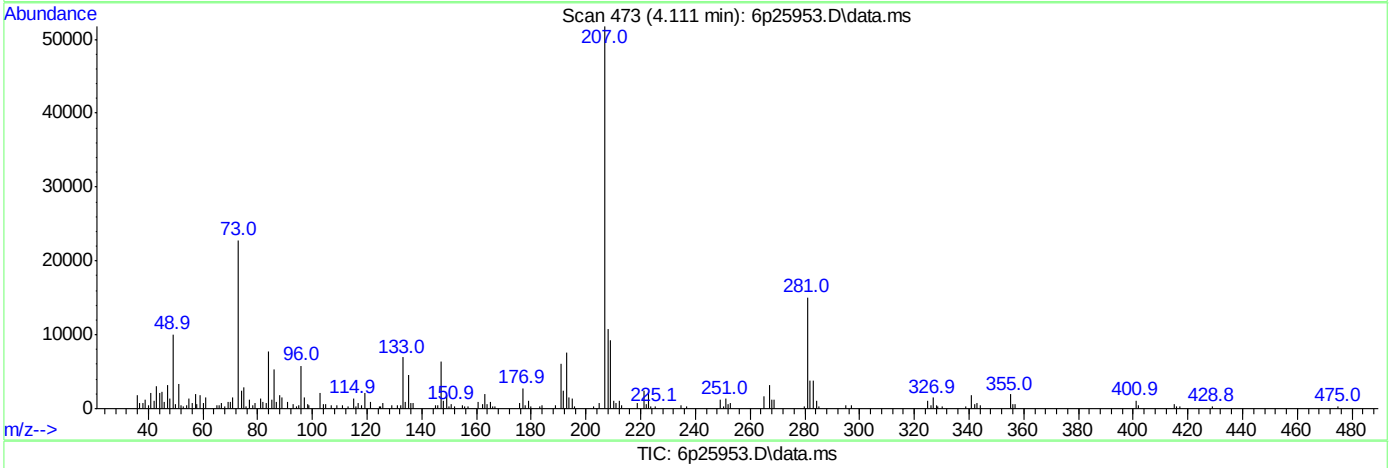
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25953.D
Acq On : 16 May 2016 8:59 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1211
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:04:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25953.D\data.ms

(3) PP-DDT (t)

4.109min 0.00ppb d

response 0

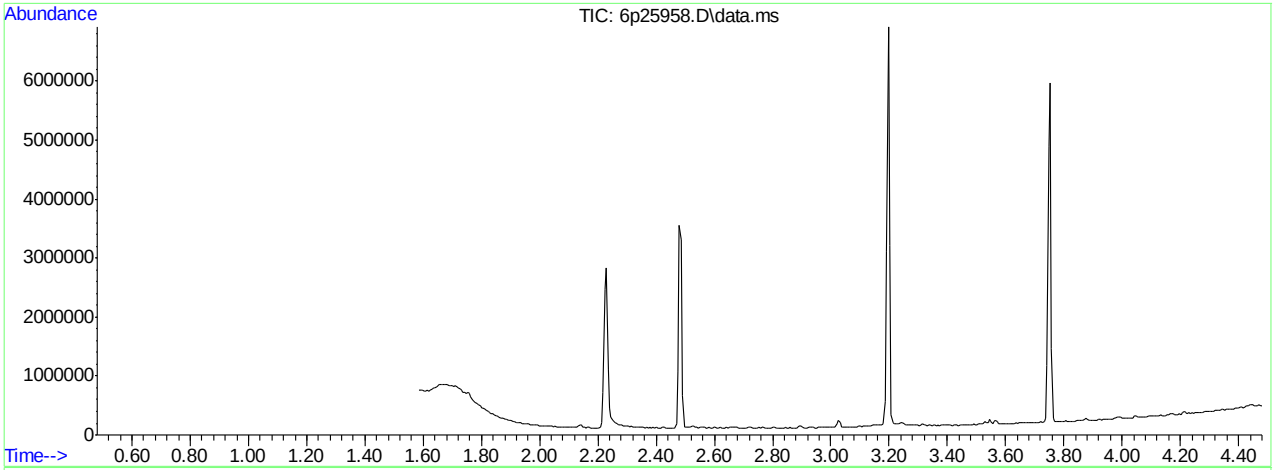
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00
237.00	85.60	0.00
0.00	0.00	0.00

SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\e6p1212\6p25958.D Vial: 1
Acq On : 16 May 2016 11:00 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op93693,e6p1212 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 167, 168, 169; Background Corrected with Scan 163

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.4	129527	PASS
68	69	0.00	2	0.7	932	PASS
69	198	0.00	100	50.6	138190	PASS
70	69	0.00	2	0.6	775	PASS
127	198	40	60	54.4	148557	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	273010	PASS
199	198	5	9	6.7	18218	PASS
275	198	10	30	25.8	70571	PASS
365	198	1	100	3.2	8697	PASS
441	443	0.10	100	76.8	23976	PASS
442	198	40	100	55.7	151981	PASS
443	442	17	23	20.5	31207	PASS

6p25958.D DFTPP6P.M Mon May 16 11:38:16 2016 ACLIMS

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	372	50.95	129527	59.95	280	71.70	130
36.90	1334	51.95	6291	60.95	1658	72.95	1943
38.00	1708	52.80	126	61.95	1918	74.00	14924
39.00	9877	53.05	603	62.95	4818	75.00	21404
39.90	25	53.85	434	64.00	978	76.05	8461
40.95	601	54.90	732	65.00	2738	76.95	143656
43.00	803	55.90	3718	65.90	167	77.95	10626
43.90	156	57.00	8516	68.00	932	78.95	10023
44.85	179	57.90	149	68.90	138190	79.95	8183
45.90	149	58.10	186	69.90	775	80.95	10322
50.00	36301	59.00	328	70.85	659	81.90	1998

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	2562	95.90	870	107.00	43335	117.95	3080
84.90	1646	96.90	367	107.95	6537	118.95	474
85.90	4509	97.90	13271	108.95	1147	119.85	926
86.90	1209	98.95	10378	110.00	76514	120.95	111
87.90	97	100.00	1242	110.95	12886	122.00	3121
88.80	67	100.90	5710	111.95	1969	122.95	4635
90.95	2801	101.95	354	112.95	662	123.95	2166
91.95	2606	102.90	2638	114.10	105	124.95	2156
92.90	17195	103.95	3528	114.85	560	127.00	148557
93.90	1456	105.05	3530	116.05	3209	128.00	11280
94.95	254	106.05	1919	116.90	37330	129.00	58915

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.95	5339	138.90	656	148.95	1929	156.95	1350
130.95	1586	139.80	126	150.05	543	157.95	1420
131.90	968	140.00	754	150.80	180	159.00	1199
132.90	701	140.95	7967	151.00	513	159.90	2050
133.90	2401	141.95	2578	151.20	288	160.95	3442
134.95	4169	143.00	1554	151.60	334	161.95	1077
135.90	982	144.00	558	152.00	682	162.90	370
136.20	237	145.05	572	152.90	2618	164.10	613
136.95	2290	145.95	1536	153.95	1856	164.95	3199
137.80	158	146.90	4061	154.95	4064	166.00	1939
137.95	522	147.90	8897	155.95	5769	166.95	17053

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.95	7609	178.90	10770	188.80	397	197.90	273010
168.90	1015	179.95	7757	189.00	2296	198.90	18218
169.95	610	180.95	3031	190.05	634	199.90	1628
170.95	832	182.05	780	190.90	1334	201.10	222
171.90	1597	182.60	187	191.90	4009	201.40	1413
172.95	1811	182.90	217	192.95	3299	201.90	255
173.95	3145	184.05	1099	193.80	76	202.70	272
175.00	5593	185.00	5558	194.00	395	203.00	2166
176.05	1693	186.00	40435	194.80	479	204.00	10972
176.95	2777	187.00	11600	195.10	359	205.00	18985
177.95	1119	187.95	1650	196.00	9110	206.00	75056

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.95	9404	214.70	179	225.90	639	234.95	1284
207.95	2708	215.00	726	226.10	893	235.95	962
208.95	1277	216.10	1964	227.00	16646	236.95	1790
210.00	804	216.90	18746	227.90	1336	237.70	133

210.20	681	218.00	2436	228.10	1130	238.10	189
210.70	252	219.00	576	228.90	3385	238.85	759
211.00	3249	220.95	15286	229.90	545	239.95	922
211.60	503	222.00	244	230.85	1105	240.80	132
212.10	184	223.00	4756	231.90	332	241.00	457
212.90	320	224.00	40491	233.00	291	241.80	289
214.00	104	225.00	10196	233.95	1238	241.95	2077

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
243.00	2727	253.10	1028	264.95	3676	276.00	9441
244.00	32288	255.00	153264	265.85	991	276.70	567
245.05	4060	256.00	22034	266.90	412	276.95	5515
245.95	6034	256.80	178	268.85	237	277.90	1241
247.00	1305	256.95	1349	269.85	381	278.60	151
247.95	411	257.95	8138	271.10	330	279.00	124
248.95	1398	258.60	144	271.90	456	282.00	57
250.00	162	258.90	1209	272.30	445	282.80	150
250.85	546	259.95	500	273.00	4912	282.95	883
251.95	511	260.70	256	274.00	13669	284.00	463
252.80	139	263.80	388	275.00	70571	284.95	1035

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
287.80	108	297.00	2951	310.10	144	323.00	6252
288.80	233	298.00	155	312.50	103	324.00	1256
289.70	150	300.80	309	313.15	321	325.30	107
290.00	199	301.20	115	314.05	813	325.80	107
291.10	123	302.05	408	314.90	1965	326.90	1028
292.05	342	302.60	101	315.95	1321	328.00	539
292.90	1371	302.95	1859	316.90	123	329.10	119
293.80	198	304.05	519	319.60	118	332.00	257
294.20	280	307.95	250	320.10	129	333.00	594
295.00	489	309.00	105	320.90	776	333.80	281
296.00	17658	309.80	199	322.00	295	334.10	3932

Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
335.05	834	353.10	1034	372.00	3550	402.05	1304
339.80	109	354.00	2029	373.05	1030	402.95	2037
340.20	105	354.95	13	373.90	128	404.00	642
341.05	925	355.20	283	383.00	866	404.90	116
341.90	342	364.90	8697	384.00	336	405.20	109
342.90	101	365.80	418	389.80	361	415.10	126
345.95	1053	366.00	593	390.80	270	417.00	117
346.95	240	366.90	117	391.10	140	420.90	1269
351.90	1164	370.10	122	391.60	207	422.05	1514
352.10	888	371.00	232	392.10	196	423.05	10918
352.80	595	371.20	260	401.10	251	424.05	3138

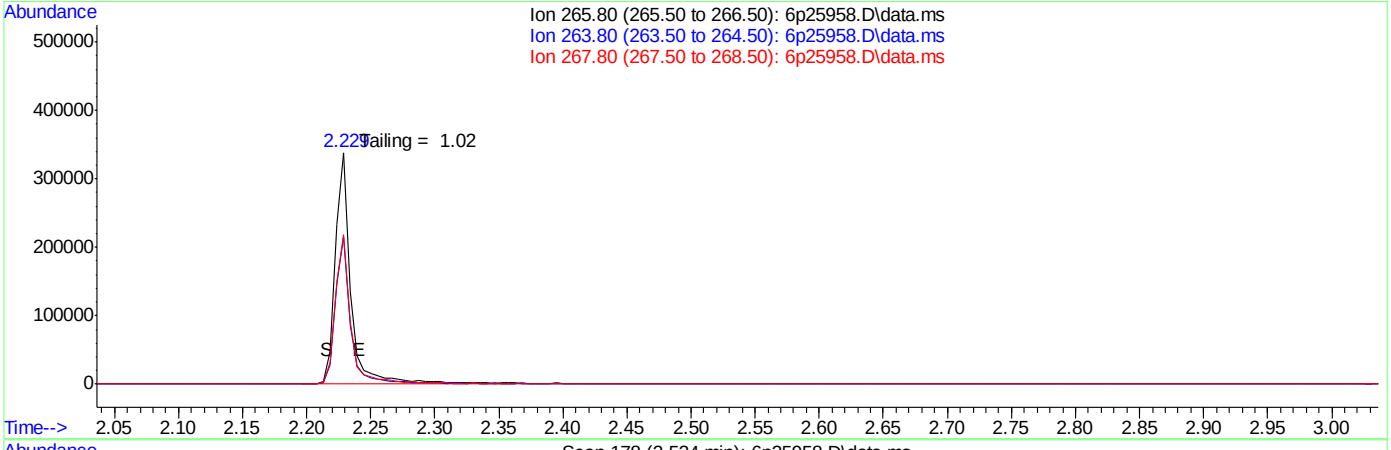
Average of 2.475 to 2.486 min.: 6p25958.D\data.ms
dftpp
Modified:subtracted

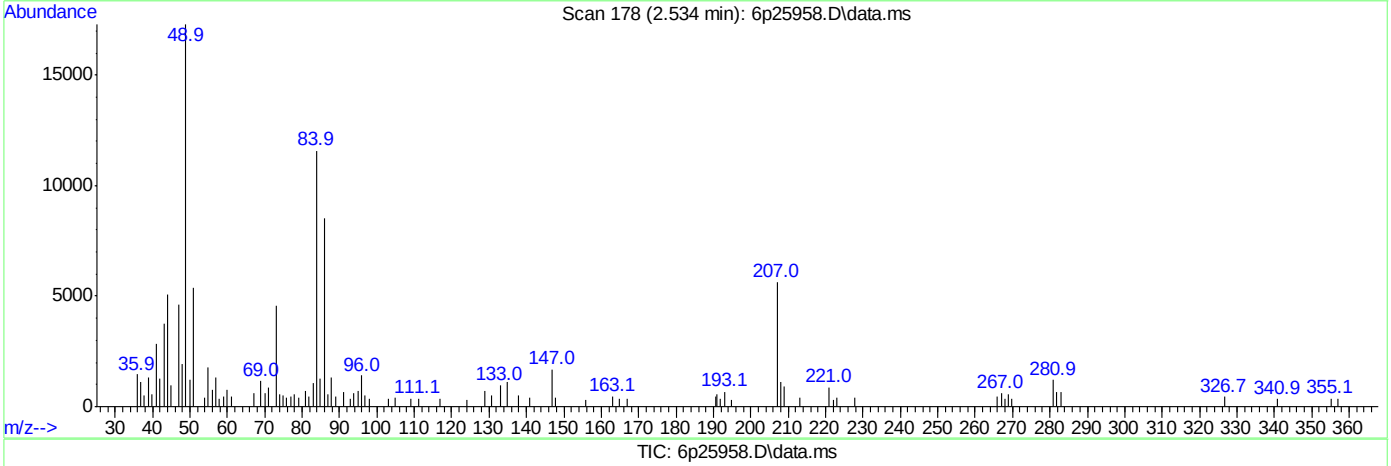
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
425.00	464	437.70	279				
428.40	113	438.40	117				
430.60	100	438.80	105				
431.00	100	439.10	161				
431.80	112	439.70	651				
432.20	124	441.10	23976				
433.40	131	442.05	151981				
434.30	126	443.00	31207				
434.70	100	443.90	798				
435.40	125	444.10	1940				
436.50	235	444.80	151				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25958.D
Acq On : 16 May 2016 11:00 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1212
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 11:05:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25958.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

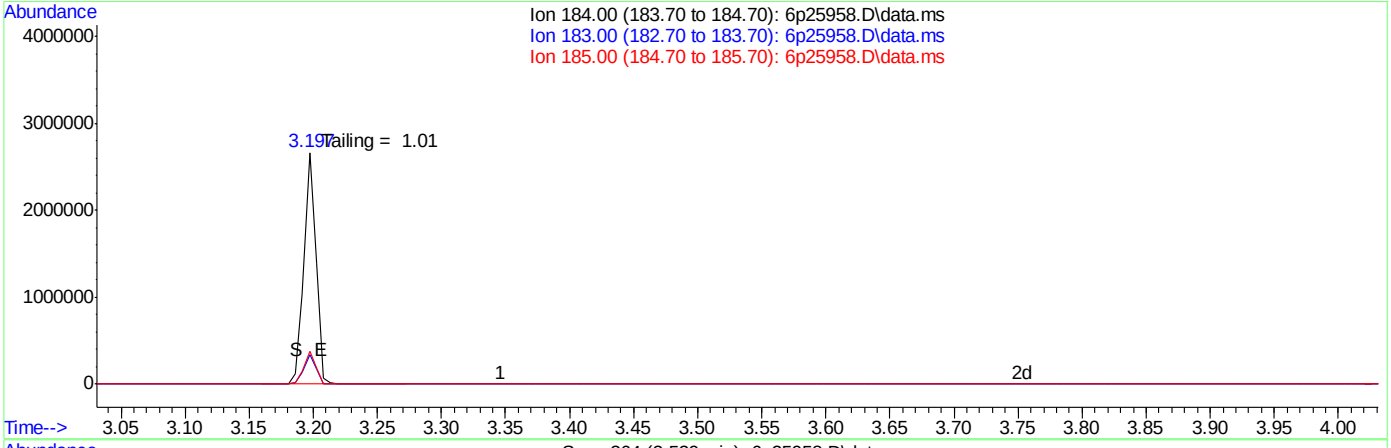
response 0

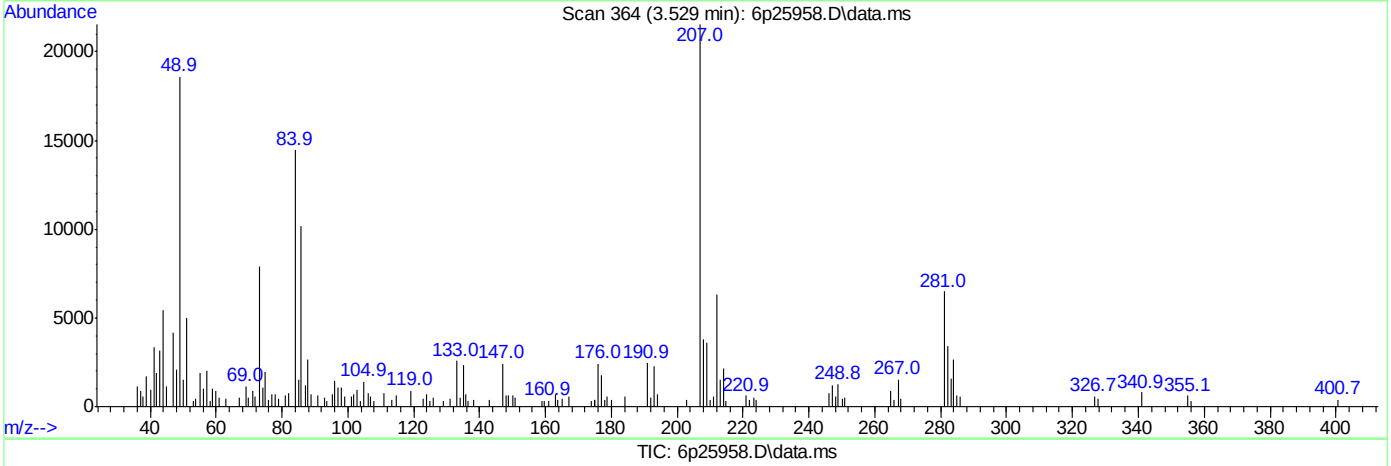
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25958.D
Acq On : 16 May 2016 11:00 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1212
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 11:05:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p25958.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

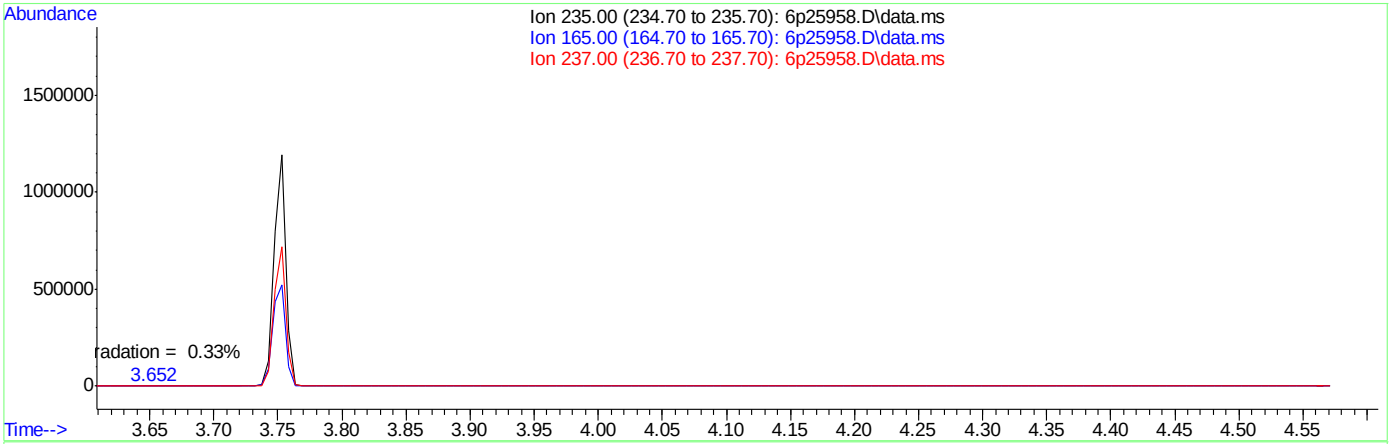
response 0

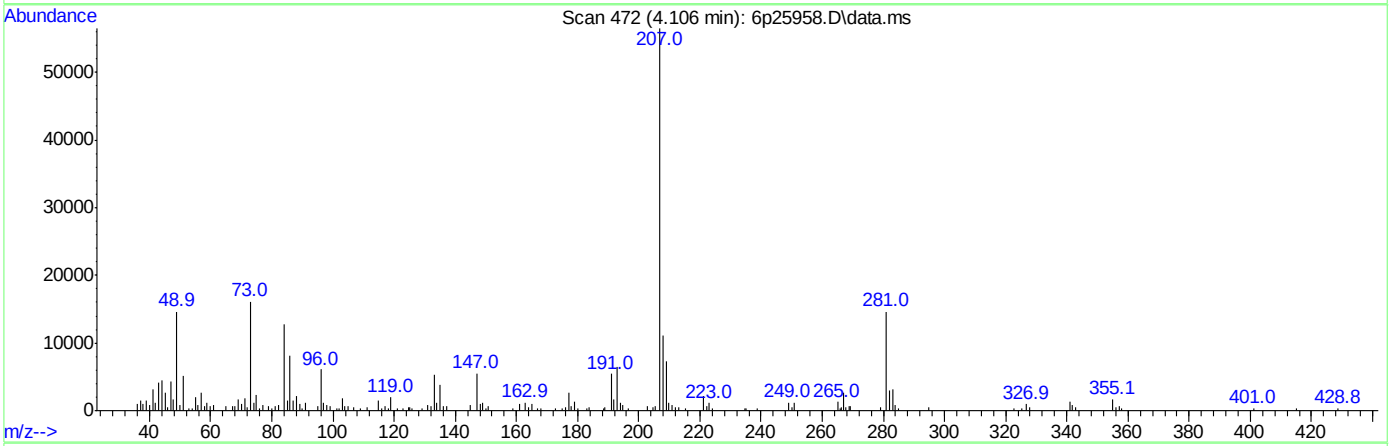
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25958.D
Acq On : 16 May 2016 11:00 am
Operator : ariellec
Sample : dftpp
Misc : op93693,e6p1212
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 11:05:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

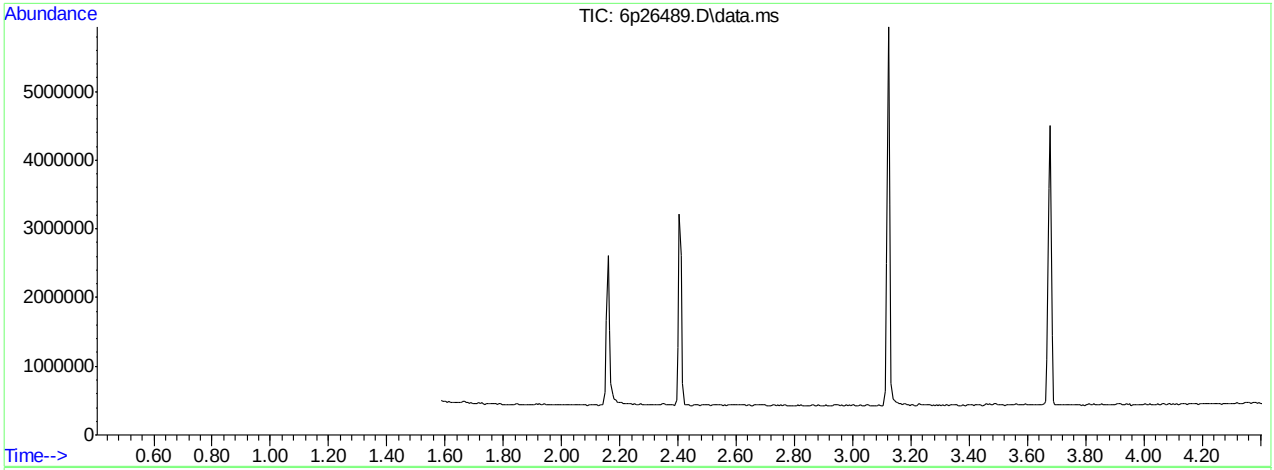
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

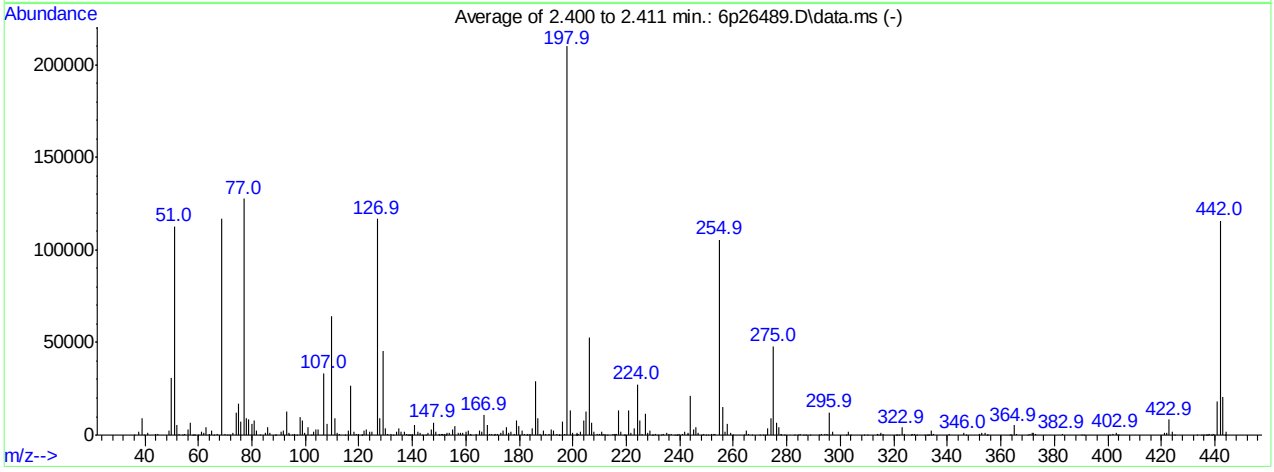
SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\e6p1232\6p26489.D Vial: 1
Acq On : 31 May 2016 8:38 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op94071,e6p1232 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um





AutoFind: Scans 153, 154, 155; Background Corrected with Scan 149

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.8	112856	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	55.6	116723	PASS
70	69	0.00	2	0.7	856	PASS
127	198	40	60	55.6	116768	PASS
197	198	0.00	1	0.2	456	PASS
198	198	100	100	100.0	209834	PASS
199	198	5	9	6.3	13292	PASS
275	198	10	30	22.9	48063	PASS
365	198	1	100	2.5	5247	PASS
441	443	0.10	100	87.5	18268	PASS
442	198	40	100	55.2	115734	PASS
443	442	17	23	18.0	20870	PASS

6p26489.D DFTPP6P.M Tue May 31 08:44:30 2016 ACLIMS

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	153	52.90	679	62.95	4471	74.90	17102
37.90	2054	54.15	290	63.90	685	76.00	7553
39.00	8936	54.95	875	64.95	2324	77.00	127689
39.95	183	55.95	3291	65.85	244	78.00	8951
40.90	1434	56.95	6809	67.00	424	78.95	8309
43.90	747	57.90	186	68.90	116723	79.90	5947
44.85	700	58.10	165	69.90	856	80.90	8134
48.90	2293	58.70	103	70.90	69	81.90	2266
49.95	30829	59.95	264	71.75	128	82.90	265
50.95	112856	60.95	1774	73.00	1206	84.90	1507
51.90	5559	61.95	1498	73.95	12127	85.90	3976

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.85	1044	97.90	9938	110.90	9200	121.90	2251
88.70	114	98.90	7932	111.95	1297	122.90	3311
88.90	271	99.85	961	112.80	510	123.90	1717
90.90	2056	100.90	3990	114.95	287	124.95	1701
91.90	2704	102.10	126	115.95	2238	126.90	116768
92.90	12442	102.90	1901	116.90	26805	127.95	9292
93.80	214	103.95	2779	117.95	2013	128.90	45557
94.00	956	104.90	3053	118.95	483	129.85	3914
94.90	47	106.95	33541	119.95	643	130.90	875
95.95	799	107.90	5947	120.90	171	131.85	642
96.95	327	109.90	63896	121.10	102	132.90	149

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
133.90	1633	142.90	1424	151.40	415	160.90	2558
134.90	3553	143.90	240	151.95	332	161.70	191
135.90	1557	145.05	317	152.70	299	161.90	555
136.90	1968	145.90	1054	152.90	1475	163.90	488
137.90	430	146.90	3268	153.90	1517	164.90	2512
138.10	146	147.90	6698	154.90	2894	166.00	1743
138.50	126	148.90	1617	155.95	4778	166.95	10694
138.90	147	149.80	523	156.95	1268	167.90	5707
139.85	785	150.10	180	157.90	1178	168.95	909
140.90	5569	150.90	532	158.90	944	169.85	345
141.90	1957	151.10	259	159.95	1862	170.50	165

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.95	541	181.90	663	191.95	2860	201.35	992
171.90	877	182.50	122	192.95	2712	201.70	120
172.90	1206	183.05	367	194.00	809	201.95	335
173.95	2183	183.80	721	194.70	109	202.95	1733
174.95	4024	184.95	3853	194.90	324	203.95	7712
176.00	1210	185.95	29283	195.90	7307	205.00	12719
176.85	2085	186.90	9404	196.80	456	206.00	52872
177.90	826	187.85	911	197.90	209834	206.90	6395
178.90	7798	188.90	2331	198.90	13292	207.85	2066
179.95	5156	189.90	384	199.85	1193	208.90	557
180.90	2461	190.90	765	201.20	196	210.05	680

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.80	124	219.30	108	229.80	103	239.00	134
210.95	1847	219.70	201	230.10	180	239.85	548
211.60	477	220.95	13431	231.00	910	240.80	707
211.90	217	221.70	1189	231.80	174	241.95	1672

213.00	136	222.90	3400	233.00	147	242.90	998
214.90	482	224.00	27240	233.90	664	243.10	758
215.30	162	225.00	7641	234.90	1155	243.95	21378
216.00	844	225.90	415	235.90	808	244.95	3115
216.20	670	226.90	11669	236.90	783	245.90	4419
216.90	13070	227.90	1462	237.80	127	246.95	1126
217.90	1901	228.95	2286	238.80	217	247.85	248

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.90	814	259.90	101	275.95	6417	291.90	136
249.90	273	263.90	140	276.95	4525	292.95	767
250.70	103	264.90	2290	277.80	481	293.95	364
251.90	374	265.80	547	278.00	288	294.80	445
252.75	481	267.10	104	278.95	239	295.90	12265
253.10	417	269.90	213	282.95	308	296.90	1660
254.90	105520	270.90	164	283.90	321	302.10	139
255.95	15263	271.90	153	284.95	528	302.90	1816
256.90	1669	272.90	3570	286.10	126	304.00	293
257.90	6105	274.00	9127	286.90	150	308.70	129
258.85	944	275.00	48063	288.90	125	310.00	109

Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
313.80	285	326.80	360	346.00	988	365.90	734
314.00	339	327.85	468	346.95	300	370.10	149
314.70	264	328.70	119	351.80	787	370.90	392
314.90	1362	331.30	100	352.05	662	371.80	1039
315.95	728	332.10	134	353.00	1048	372.00	1234
320.80	267	332.80	213	353.95	1293	372.95	553
321.10	274	333.10	217	354.80	183	382.95	660
321.85	294	333.80	312	355.10	111	390.00	108
322.95	4007	333.95	2339	363.30	122	391.00	123
323.90	754	335.00	651	363.70	121	400.70	113
326.60	221	340.85	529	364.90	5247	401.95	864

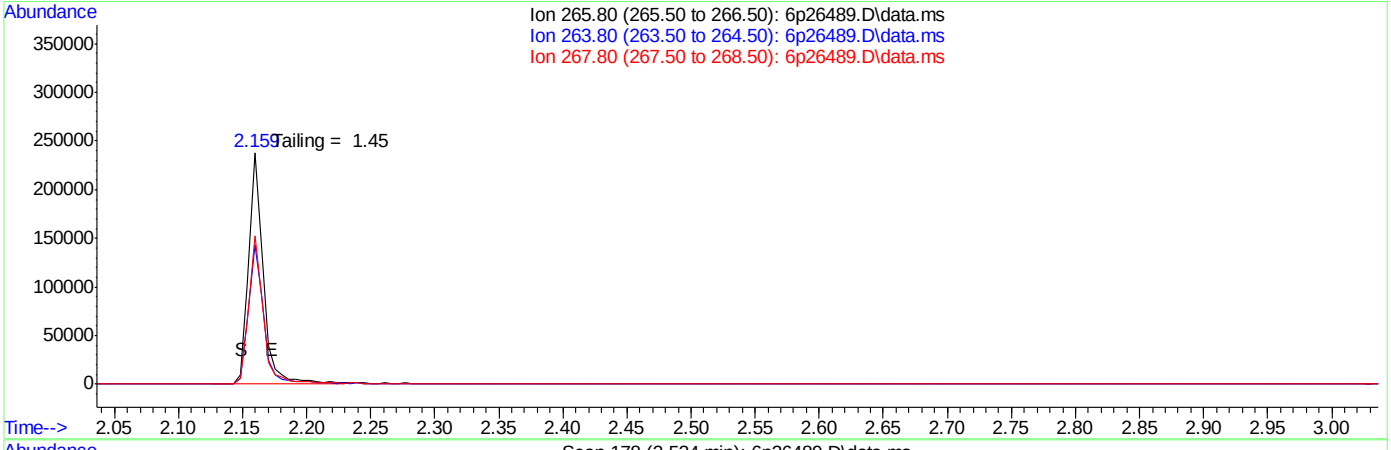
Average of 2.400 to 2.411 min.: 6p26489.D\data.ms
dftpp
Modified:subtracted

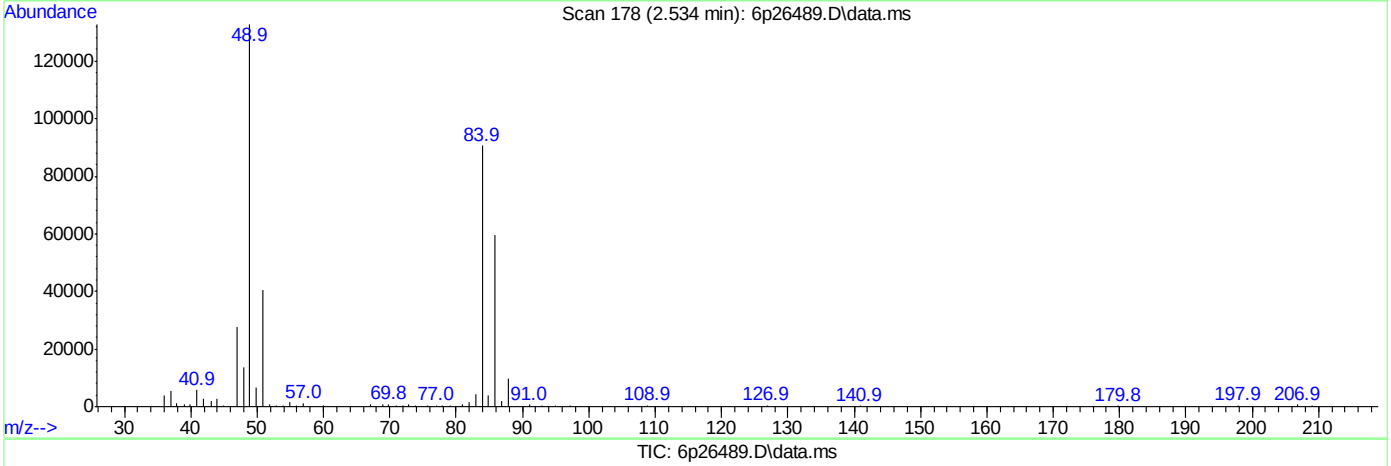
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
402.95	1292	436.70	119	444.00	1743		
403.70	184	436.90	200				
404.10	108	437.30	145				
421.00	1045	438.10	438				
422.00	1082	438.70	158				
422.95	8193	438.90	263				
424.00	1857	439.75	524				
424.95	291	441.00	18268				
433.20	106	442.00	115734				
435.00	141	443.00	20870				
435.60	117	443.70	136				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26489.D
Acq On : 31 May 2016 8:38 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1232
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 08:43:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26489.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

response 0

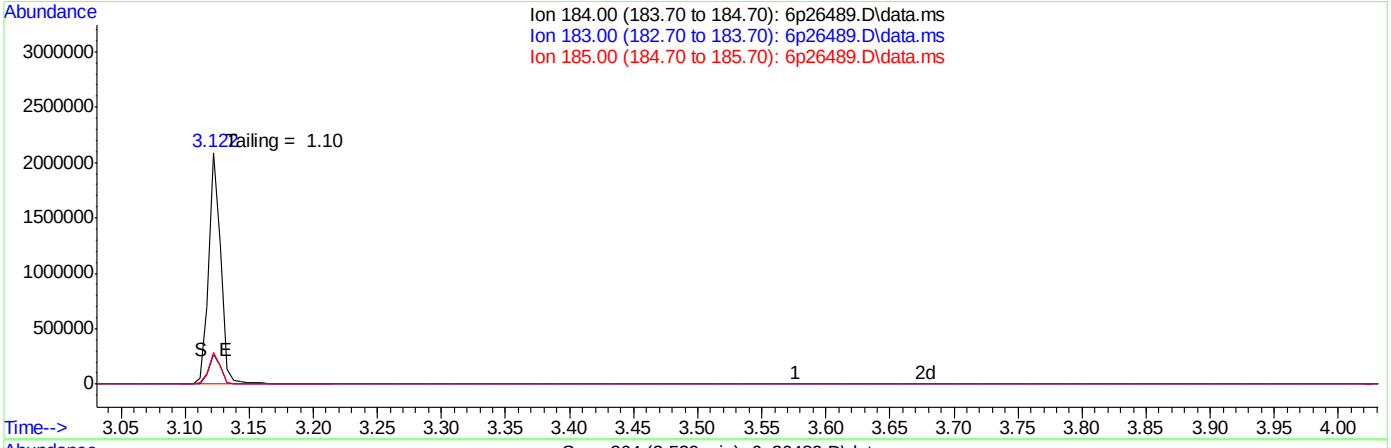
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

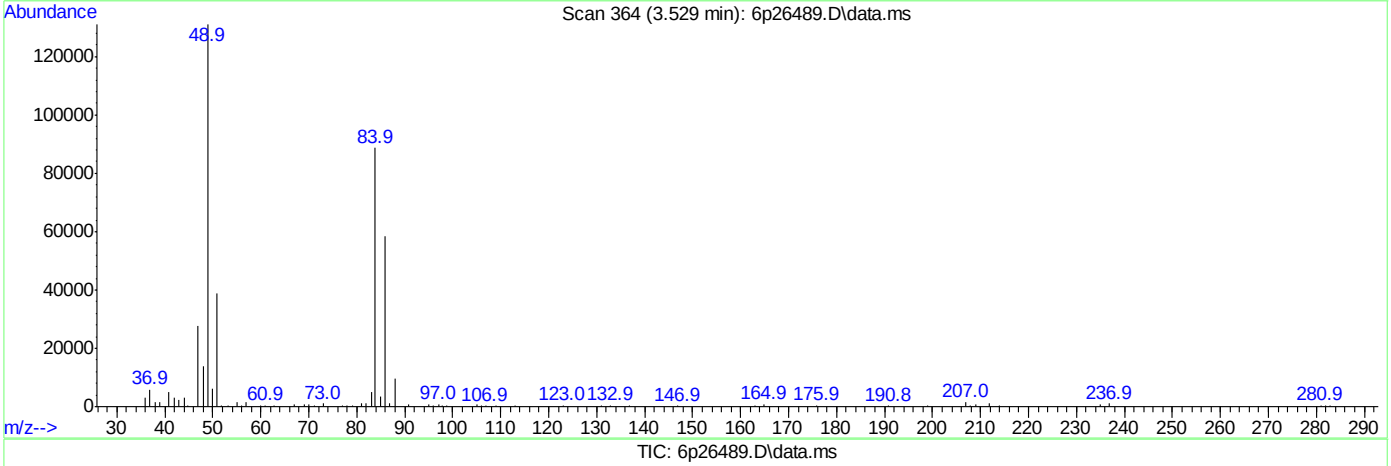
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26489.D
Acq On : 31 May 2016 8:38 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1232
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 08:43:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26489.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

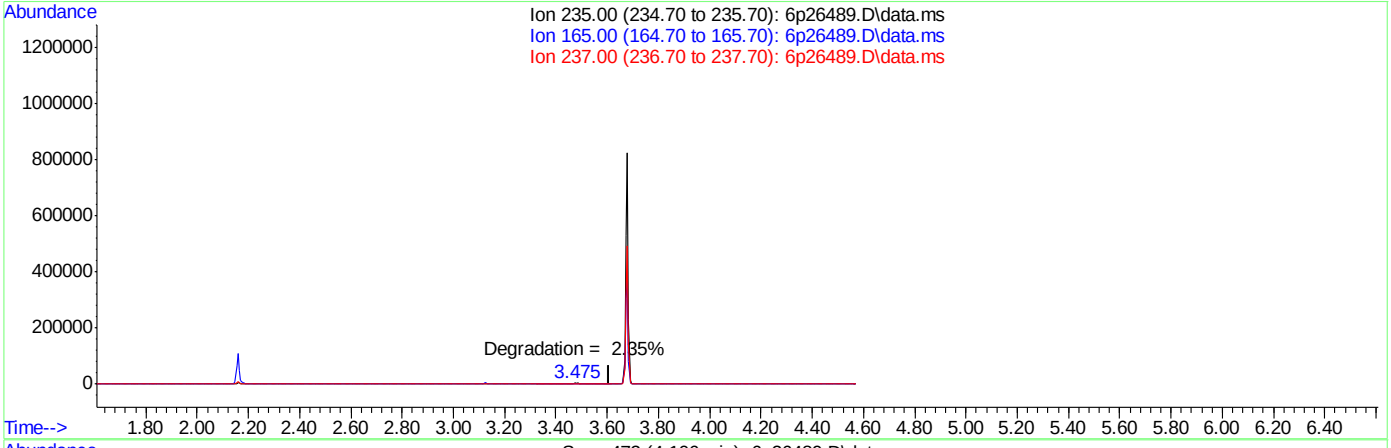
response 0

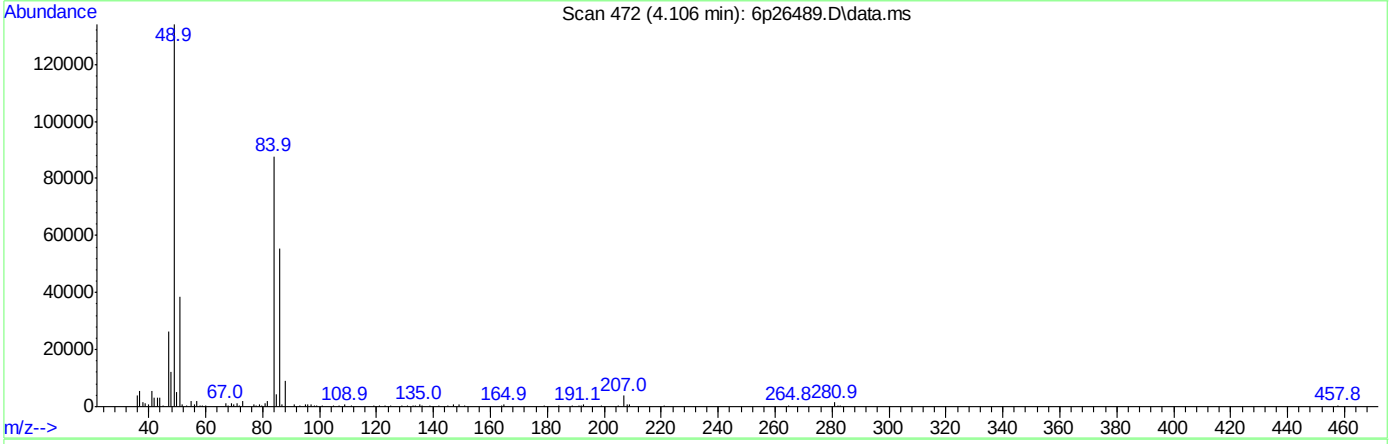
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26489.D
Acq On : 31 May 2016 8:38 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1232
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 08:43:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26489.D\data.ms

(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

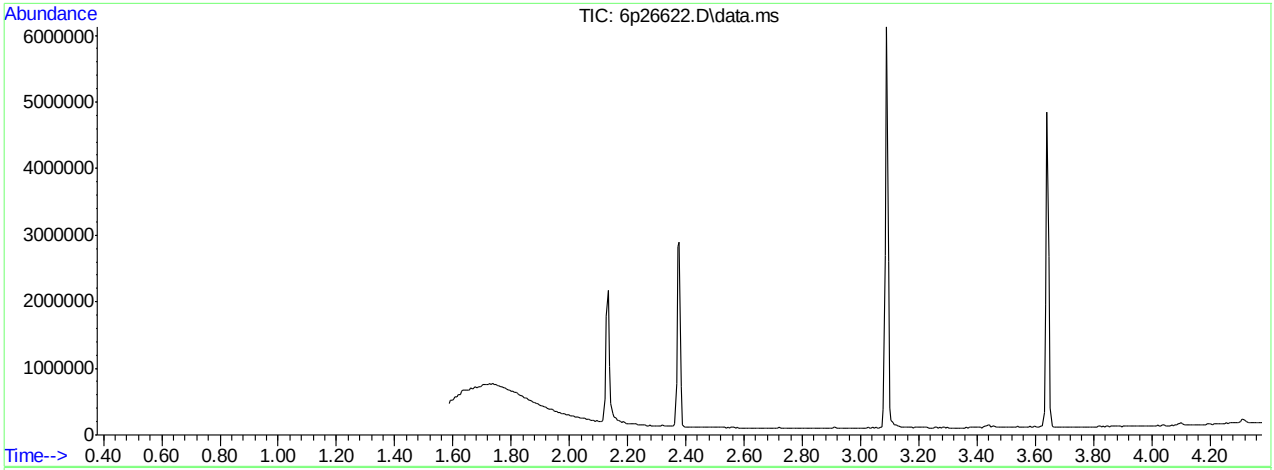
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\E6P1236\6p26622.D Vial: 1
Acq On : 2 Jun 2016 10:20 pm Operator: seanb1
Sample : dftpp Inst : MS6P
Misc : op94071,e6p1236 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 148, 149, 150; Background Corrected with Scan 143

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.7	114677	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	55.8	117055	PASS
70	69	0.00	2	0.2	254	PASS
127	198	40	60	57.0	119440	PASS
197	198	0.00	1	0.1	209	PASS
198	198	100	100	100.0	209626	PASS
199	198	5	9	6.5	13575	PASS
275	198	10	30	25.2	52888	PASS
365	198	1	100	3.2	6644	PASS
441	443	0.10	100	81.8	22436	PASS
442	198	40	100	67.3	141008	PASS
443	442	17	23	19.4	27424	PASS

6p26622.D DFTPP6P.M Fri Jun 03 07:57:30 2016 ACLIMS

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	182	52.00	5343	63.95	663	78.90	7839
37.95	1747	52.95	3	64.95	2106	79.90	6839
39.00	9251	53.95	112	65.90	232	80.90	7905
40.00	387	56.00	3373	68.90	117055	81.90	1920
41.00	746	57.00	5524	70.00	254	83.00	1920
43.00	695	57.90	345	73.00	1385	83.90	1337
46.20	129	59.00	180	73.90	12499	84.90	1738
47.90	473	59.95	52	74.95	16824	85.90	1845
48.90	897	60.95	1587	76.05	7834	86.90	888
49.95	30729	61.95	1638	76.95	126625	87.90	227
50.95	114677	63.00	4181	78.00	7754	88.95	651

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.80	132	99.90	750	111.95	1324	123.85	1586
90.10	150	100.90	4280	112.95	282	124.95	1233
90.90	1898	102.00	315	114.00	252	126.00	240
91.95	2136	102.85	1668	115.00	13	126.95	119440
92.90	12643	103.90	3006	116.00	2214	127.95	8159
93.90	412	104.90	3291	116.90	27705	128.90	48480
95.00	179	106.05	1805	117.90	1953	129.90	3677
95.90	493	107.00	33477	119.95	369	130.95	648
97.00	557	108.00	5714	120.95	232	131.85	805
97.90	10864	109.90	65428	121.90	2352	132.95	571
98.90	7789	110.90	9168	122.95	3469	133.80	834

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
133.95	541	144.80	239	153.90	1465	162.90	323
134.90	3959	145.10	455	154.95	2793	163.60	249
135.90	1378	145.90	1351	155.90	4556	164.10	239
137.00	2315	146.90	2592	156.95	1005	164.70	438
138.00	609	147.90	7366	157.90	961	164.95	1210
140.05	616	148.90	899	158.95	1025	165.70	121
140.90	5766	149.95	677	159.60	157	165.95	1698
141.90	2005	150.90	441	159.90	1619	166.20	224
142.70	283	151.20	345	160.10	140	166.90	11831
142.90	825	151.60	331	160.90	2696	167.95	6142
143.95	434	152.85	1904	161.85	948	169.00	970

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.10	544	180.85	2366	189.90	464	199.90	1259
170.95	762	181.80	212	190.90	764	201.40	994
171.90	1093	182.10	340	191.95	2312	201.65	331
172.95	1487	182.50	111	192.95	3118	202.00	108
173.95	2378	182.95	57	193.85	834	202.30	100
174.95	4544	183.90	542	194.60	112	202.90	1194
175.95	1191	185.00	4067	195.00	610	203.20	620
176.90	1975	186.00	31369	195.90	8128	203.90	7663
177.95	1038	186.95	9422	196.80	209	205.00	13532
178.90	8400	188.05	856	197.90	209626	206.00	54521
179.90	5214	188.90	1429	198.90	13575	206.95	6612

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.90	2431	215.85	1235	226.10	213	236.80	749
208.85	1101	216.90	13986	226.90	11848	237.00	115
209.95	616	217.90	1766	227.90	2131	238.00	168
210.20	529	219.10	173	228.95	2569	239.05	552

210.40	135	219.90	247	230.10	138	240.00	513
210.80	1181	220.95	13081	230.90	1175	240.80	293
211.20	1079	221.85	1901	231.70	128	241.00	337
211.70	234	222.90	3394	232.90	129	241.80	1261
212.00	190	223.95	28352	233.85	958	241.95	873
213.00	326	224.90	7565	234.95	889	243.00	2042
214.95	686	225.90	930	235.90	691	244.00	22211

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
244.95	3272	254.95	115274	266.80	103	275.95	7242
245.90	4917	255.95	16325	267.10	116	276.90	4355
246.80	969	256.95	1381	269.00	142	277.95	904
248.85	986	257.95	6814	270.10	124	278.80	139
249.80	317	258.80	514	270.70	114	280.95	130
250.95	277	258.95	545	270.90	314	282.60	187
251.35	261	259.80	113	271.50	176	282.95	596
252.00	125	260.90	263	272.05	562	283.90	285
252.25	384	263.95	352	272.90	3785	284.95	1035
252.80	582	264.90	3050	273.95	10081	286.10	116
253.00	171	265.75	636	274.90	52888	286.90	133

Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.65	245	307.90	111	324.05	359	339.70	108
291.80	155	308.70	114	326.00	235	340.50	125
292.00	139	313.85	703	326.90	563	340.90	627
292.90	1162	314.95	1438	327.85	513	345.80	926
293.80	158	315.95	825	329.10	181	346.80	162
295.90	14061	316.90	143	331.70	144	351.95	1505
296.95	1720	320.90	238	331.90	143	353.05	1051
301.50	124	322.10	157	332.80	370	353.85	1454
302.00	341	322.30	168	333.30	410	355.10	284
302.90	1953	323.00	4851	333.95	3331	363.20	110
304.00	501	323.80	253	334.90	880	364.90	6644

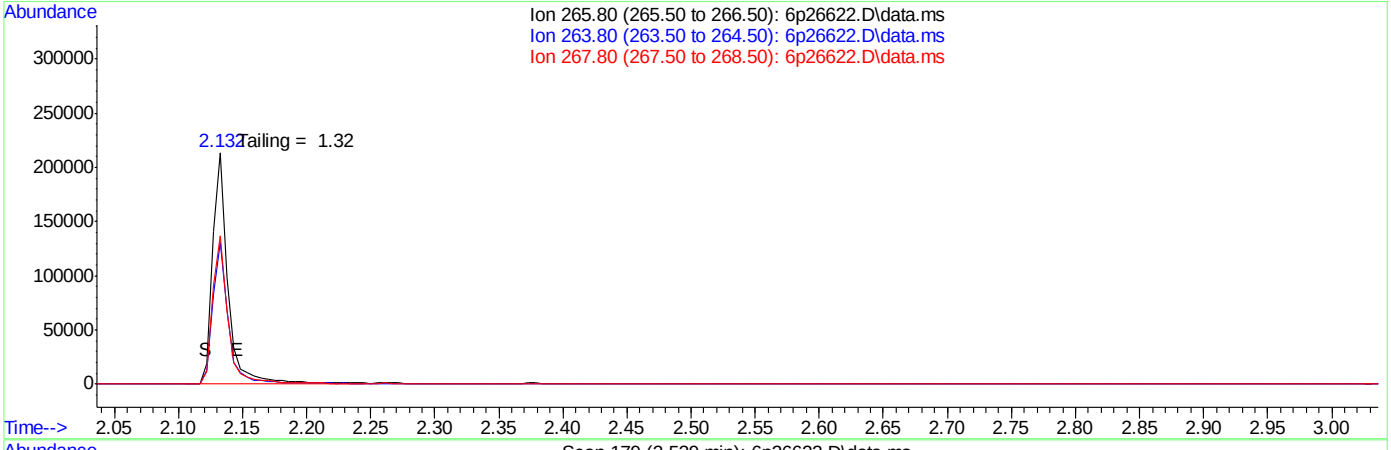
Average of 2.373 to 2.384 min.: 6p26622.D\data.ms
dftpp
Modified:subtracted

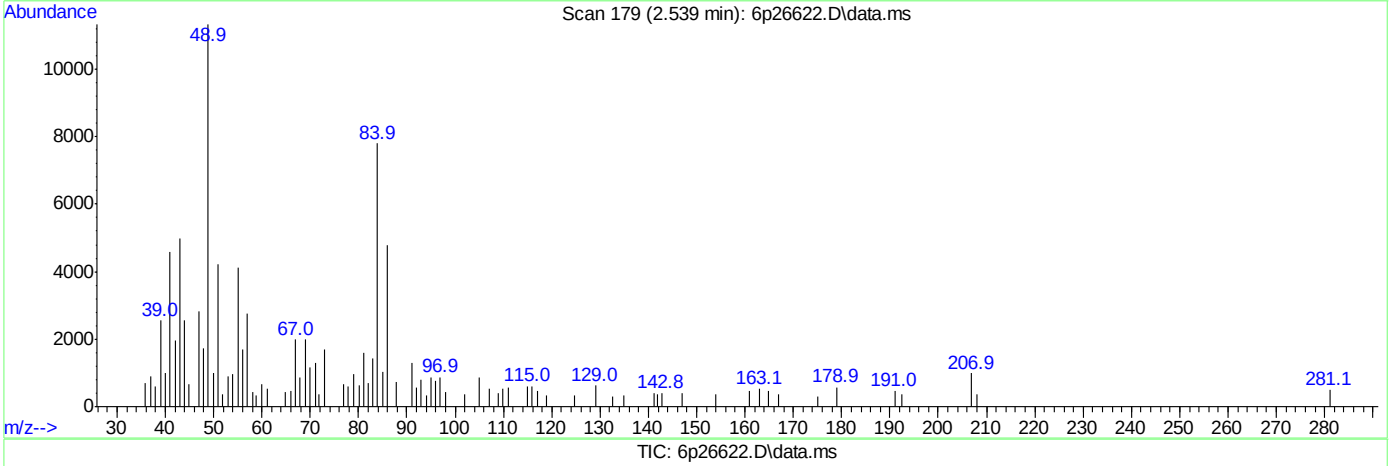
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.85	1129	400.90	127	433.00	135	443.00	27424
370.10	136	401.50	107	434.50	102	443.95	2234
370.85	287	401.95	1032	435.20	154	445.00	135
371.95	2433	402.95	1288	436.70	111		
372.90	565	403.80	178	437.80	246		
373.10	274	404.10	454	438.50	185		
382.80	438	421.00	1501	438.80	328		
383.00	155	421.95	1513	439.45	453		
384.00	158	423.00	8872	439.90	202		
389.90	156	423.95	1874	441.00	22436		
390.90	292	432.20	105	442.00	141008		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26622.D
Acq On : 2 Jun 2016 10:20 pm
Operator : seanb1
Sample : dftpp
Misc : op94071,e6p1236
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 22:25:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26622.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

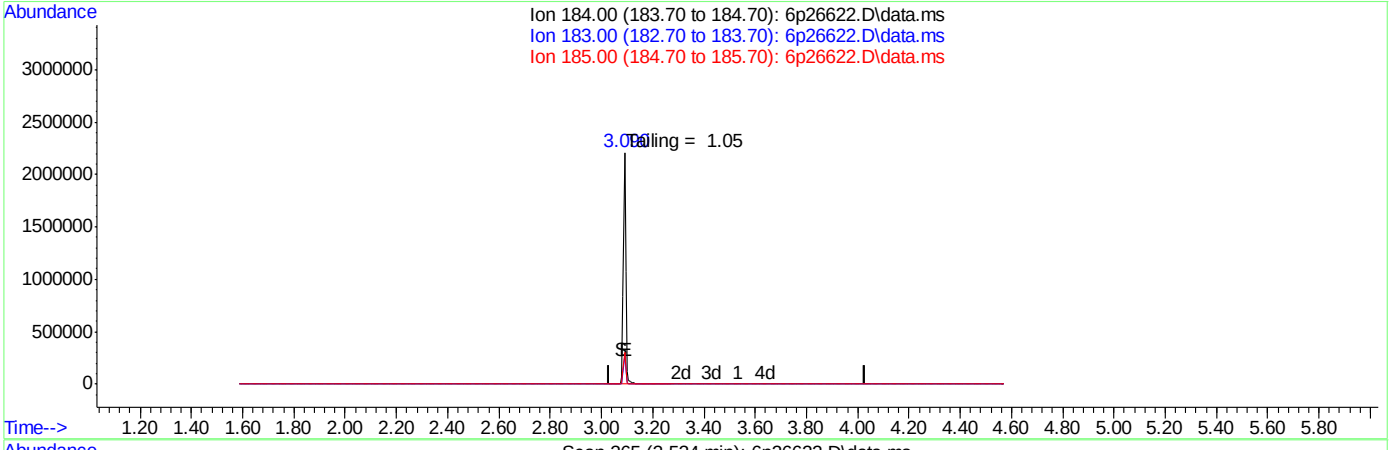
response 0

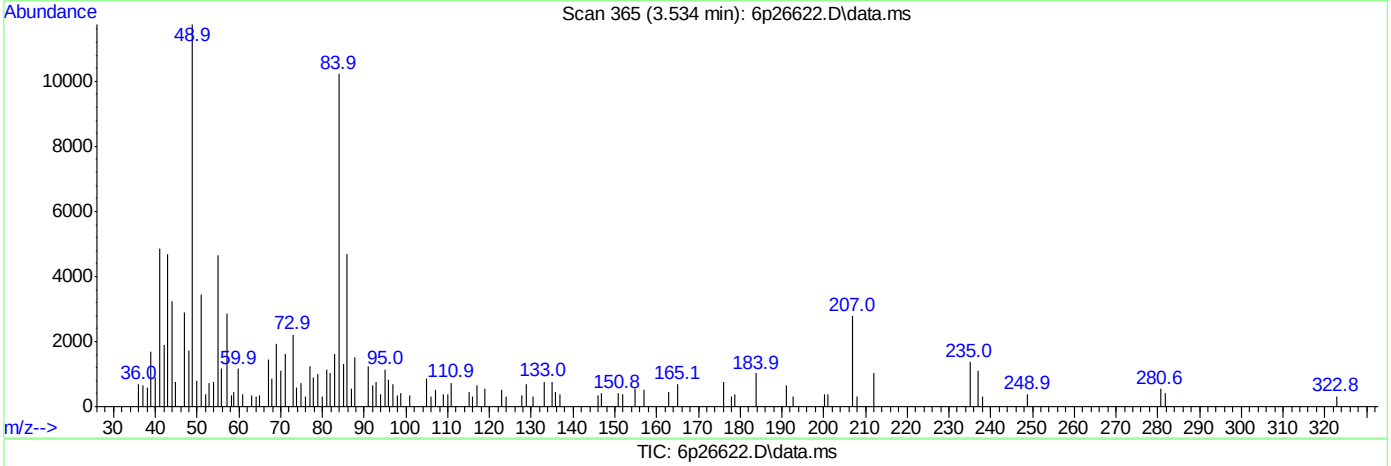
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26622.D
Acq On : 2 Jun 2016 10:20 pm
Operator : seanb1
Sample : dftpp
Misc : op94071,e6p1236
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 22:25:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26622.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

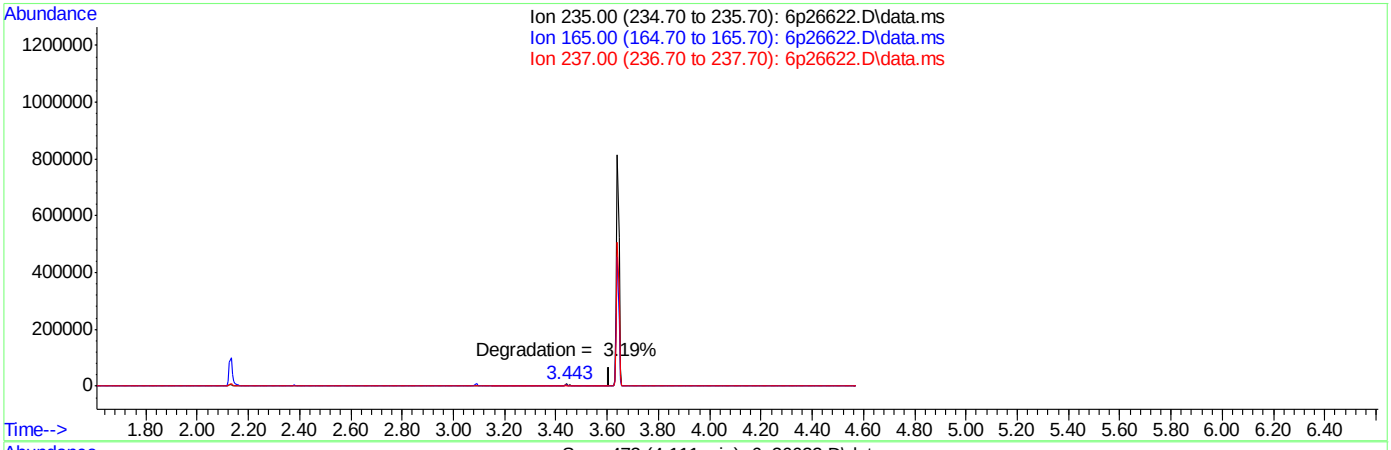
response 0

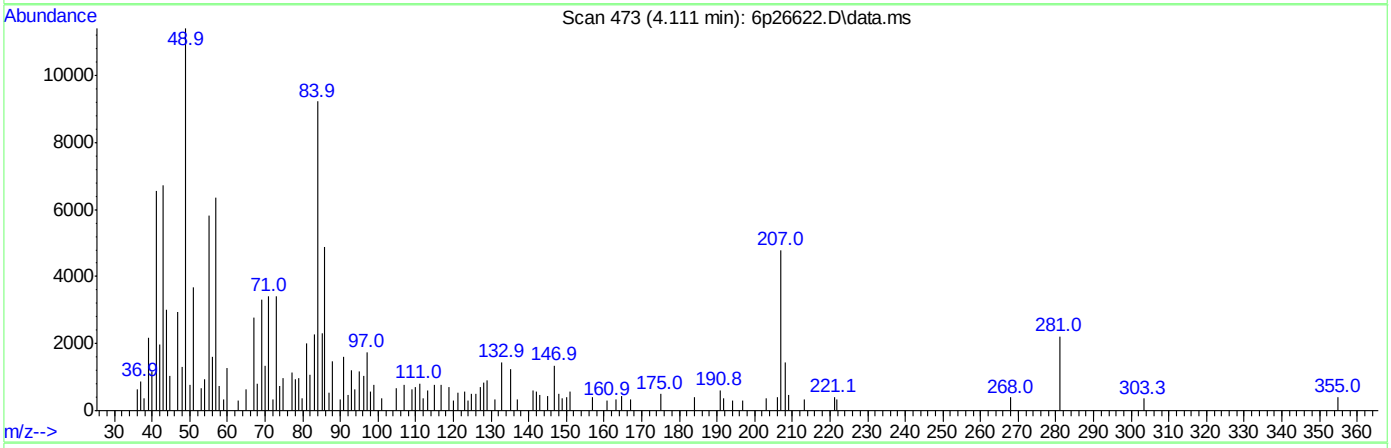
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26622.D
Acq On : 2 Jun 2016 10:20 pm
Operator : seanb1
Sample : dftpp
Misc : op94071,e6p1236
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 22:25:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26622.D\data.ms

(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

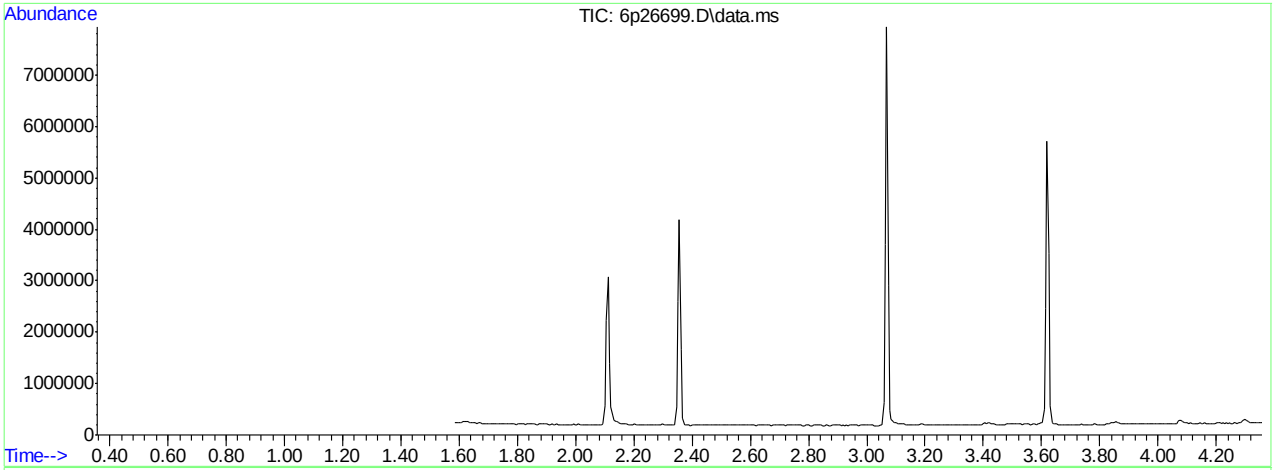
Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC21229

DFTPP

Data File : C:\msdchem\1\DATA\e6p1239\6p26699.D Vial: 1
Acq On : 6 Jun 2016 8:32 am Operator: ariellec
Sample : dftpp Inst : MS6P
Misc : op94071,e6p1239 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um



AutoFind: Scans 144, 145, 146; Background Corrected with Scan 139

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.6	141405	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.3	143577	PASS
70	69	0.00	2	0.9	1244	PASS
127	198	40	60	52.5	152671	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	291029	PASS
199	198	5	9	6.2	17978	PASS
275	198	10	30	23.9	69589	PASS
365	198	1	100	3.0	8628	PASS
441	443	0.10	100	84.4	30232	PASS
442	198	40	100	62.3	181290	PASS
443	442	17	23	19.8	35815	PASS

6p26699.D DFTPP6P.M Mon Jun 06 08:38:45 2016 ACLIMS

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	77	52.90	63	63.95	745	76.00	3859
37.95	1989	53.90	24	65.00	2833	76.95	156248
39.00	12411	55.00	431	65.80	322	77.95	10795
39.90	191	55.90	4430	66.95	773	78.95	11397
40.95	984	57.00	8238	68.90	143577	79.90	7870
44.90	436	57.90	648	69.90	1244	80.90	10902
46.00	481	59.00	287	71.00	98	81.90	2460
48.90	3877	60.00	96	71.90	165	82.90	2898
50.00	37830	60.90	2189	73.00	1728	83.90	632
50.95	141405	62.00	2391	73.90	15261	84.95	1177
51.95	6764	63.00	5877	74.90	21786	85.90	2861

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.90	1146	96.60	149	105.90	401	116.90	33045
87.85	911	97.00	323	106.90	40704	117.90	2485
88.80	141	97.90	14246	107.90	6882	119.10	484
89.00	374	98.90	9939	109.90	82509	119.90	601
90.20	120	99.90	1100	110.95	10689	121.10	442
90.95	2494	100.90	5307	111.90	1871	121.90	3475
91.90	2660	101.90	634	112.75	523	122.90	4284
92.90	16417	102.90	2115	113.00	115	123.90	2180
93.90	1563	103.40	166	113.80	223	124.95	2170
94.95	175	103.90	4061	114.95	216	126.90	152671
95.95	1299	104.90	3630	116.00	3064	127.95	12509

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.90	58738	138.85	17	146.90	3207	157.05	1440
129.90	5025	139.10	151	147.90	9146	157.90	1509
130.90	492	139.70	204	148.90	1946	158.95	1136
131.85	863	140.00	1072	149.90	702	159.95	2278
132.40	115	140.90	8122	151.00	837	160.95	3410
132.80	424	141.90	2409	151.50	285	161.85	1110
133.90	2093	143.05	1462	152.05	671	162.80	133
134.90	3852	143.95	530	152.90	2647	163.00	321
135.90	2148	144.30	101	153.90	1764	163.95	696
136.90	1933	144.90	399	155.00	4039	164.85	2471
137.75	475	146.00	1782	155.95	6920	165.95	2543

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.85	15905	176.90	2393	187.95	1219	199.90	1300
167.95	8016	177.85	1175	188.90	2753	200.20	161
168.90	1272	178.90	10853	189.95	468	201.35	856
170.00	590	179.95	6994	191.05	860	201.60	909
170.60	183	180.90	3310	191.90	3249	202.30	140
170.90	837	181.85	496	193.00	3876	203.00	2202
171.90	1456	182.85	352	193.95	1148	203.95	10042
172.85	1448	183.90	909	194.90	718	205.00	18220
173.90	3047	185.05	5461	195.95	9916	206.00	77544
174.95	5023	186.00	41344	197.90	291029	207.00	10144
175.95	1916	186.95	12771	198.90	17978	208.00	2898

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
208.95	1185	219.10	233	228.95	3261	236.90	1357
210.00	509	219.40	136	229.80	414	237.80	159
210.90	1028	220.90	18114	230.00	218	238.85	855
211.05	2246	221.80	944	230.90	1302	239.90	717

211.90	101	222.90	4630	231.70	109	240.95	969
212.90	175	223.95	39896	232.10	160	241.90	2351
214.85	935	225.00	10141	232.90	363	243.00	2873
216.00	2091	225.95	1247	233.30	135	244.00	30605
216.90	19924	226.90	16461	233.90	1350	245.00	4219
217.90	3167	227.80	501	234.90	949	245.90	5812
218.80	106	227.95	1626	235.80	1104	246.90	1118

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
247.90	163	259.80	138	274.95	69589	284.95	1375
248.95	1074	263.85	51	275.90	9574	288.80	164
250.95	418	264.80	753	276.90	5791	289.00	110
252.00	598	264.95	3125	277.90	1108	289.50	111
252.50	191	265.85	637	278.90	147	289.80	109
253.10	1262	267.40	110	280.70	155	291.80	177
254.95	149064	269.80	134	280.90	170	292.85	1550
255.90	22099	270.90	404	281.80	121	293.95	499
256.95	1529	272.10	456	282.90	997	295.90	18656
257.95	8111	272.90	4636	283.70	192	296.90	2619
258.85	1281	274.00	12674	284.00	284	298.00	157

Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.85	286	315.90	1294	327.80	416	345.00	119
301.85	349	316.80	130	328.05	302	345.75	653
302.95	2381	317.10	108	331.80	265	346.00	935
303.90	548	320.95	580	332.05	320	346.95	267
307.90	252	321.60	208	333.10	608	350.90	114
308.80	142	322.00	133	333.95	3674	352.05	1978
309.90	119	323.00	5799	335.00	962	352.95	1329
312.90	166	324.05	1015	335.90	121	353.95	2479
313.70	287	326.70	281	340.80	741	354.90	382
314.00	781	326.90	631	341.00	276	362.50	114
314.90	1560	327.10	298	342.10	304	364.90	8628

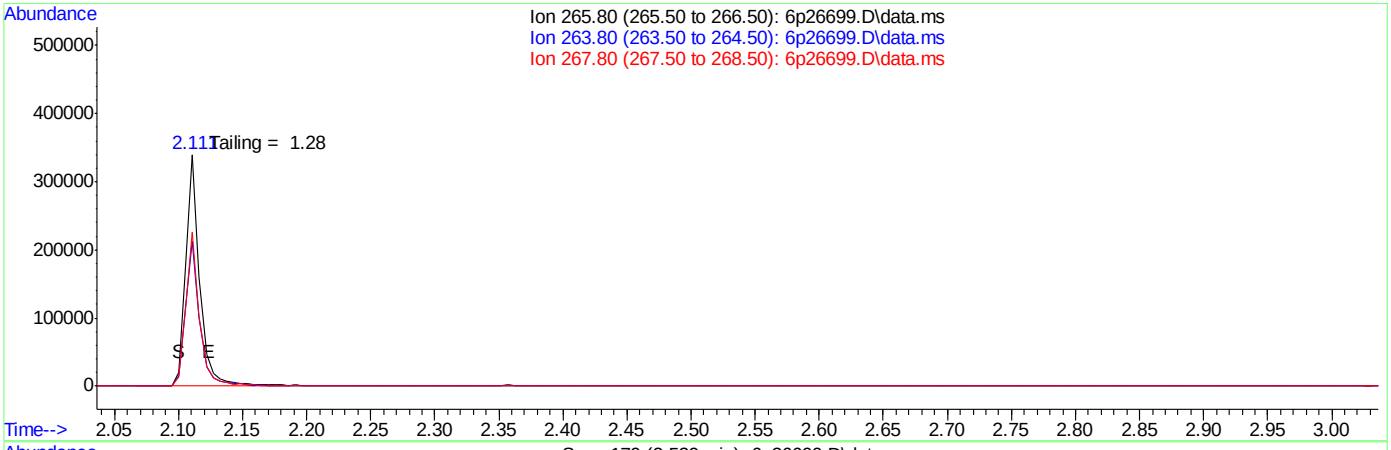
Average of 2.352 to 2.362 min.: 6p26699.D\data.ms
dftpp
Modified:subtracted

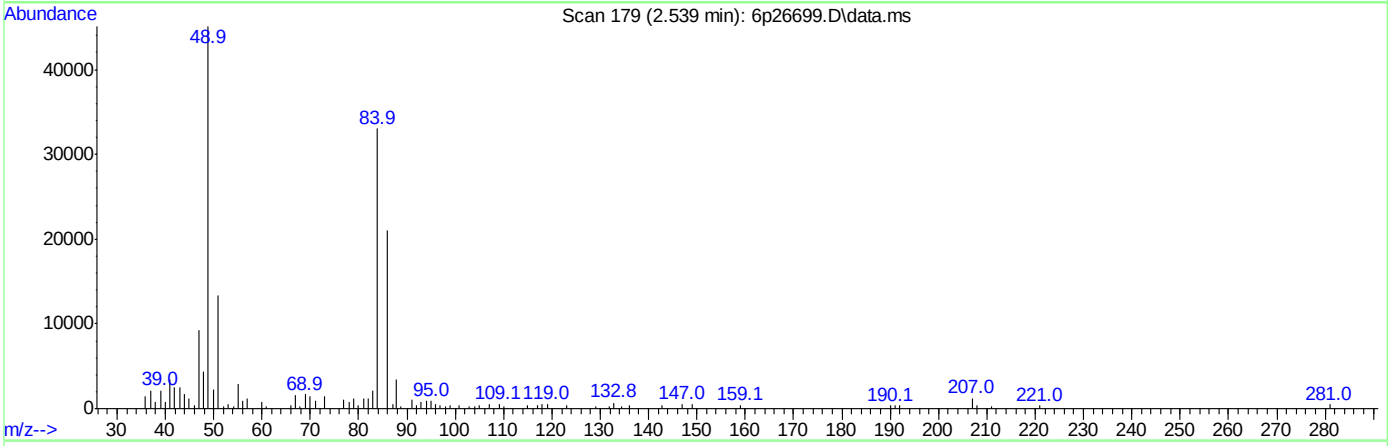
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.85	1278	390.90	159	430.90	141	442.00	181290
369.70	160	400.60	132	433.50	132	443.00	35815
370.10	156	401.85	1290	435.35	324	444.00	3404
370.85	461	402.95	1949	436.25	252	444.90	116
372.00	3173	403.90	899	437.30	215		
372.85	888	414.90	132	437.75	402		
382.95	767	421.05	1682	438.40	552		
383.90	149	421.95	1681	439.00	453		
384.90	149	422.95	11556	439.20	273		
389.50	131	423.95	2455	439.70	475		
390.20	392	425.20	112	441.05	30232		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26699.D
Acq On : 6 Jun 2016 8:32 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1239
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:37:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26699.D\data.ms

(1) Pentachlorophenol (t)

2.536min 0.00ppb d

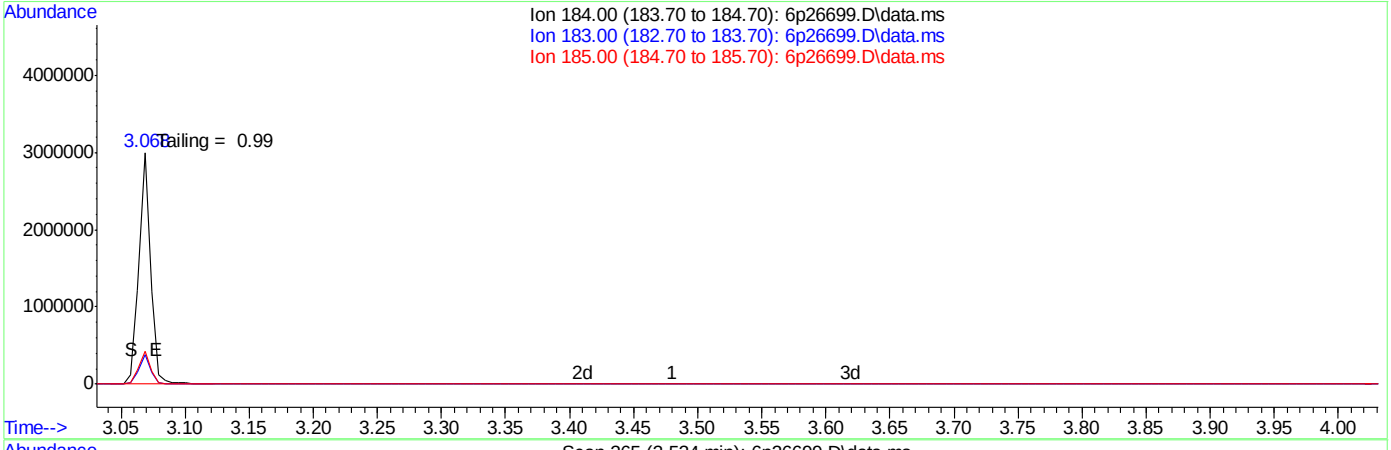
response 0

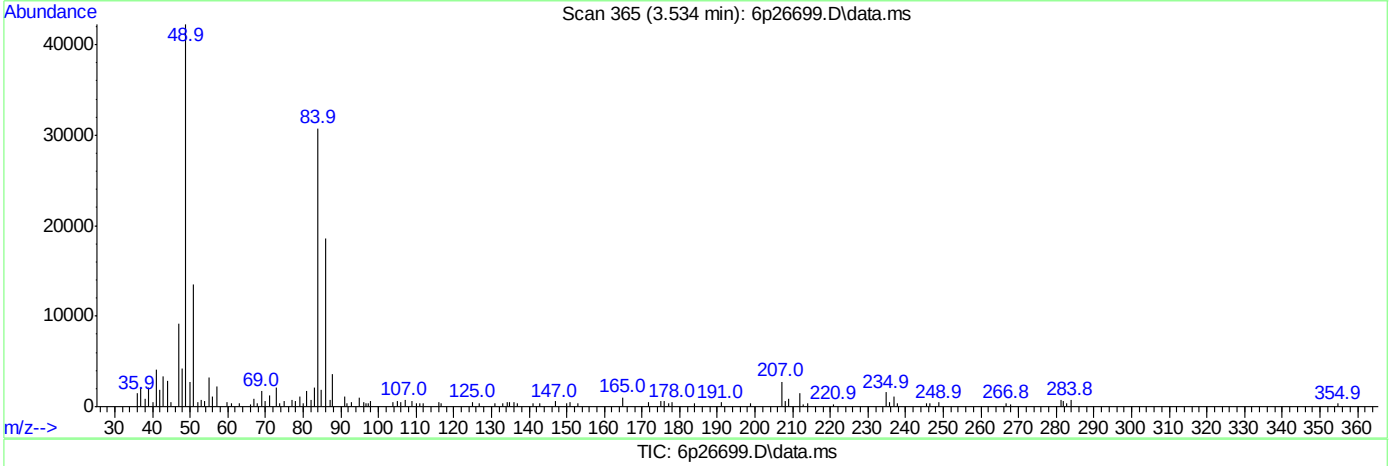
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.70	0.00
267.80	62.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26699.D
Acq On : 6 Jun 2016 8:32 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1239
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:37:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26699.D\data.ms

(2) Benzidine (t)

3.531min 0.00ppb d

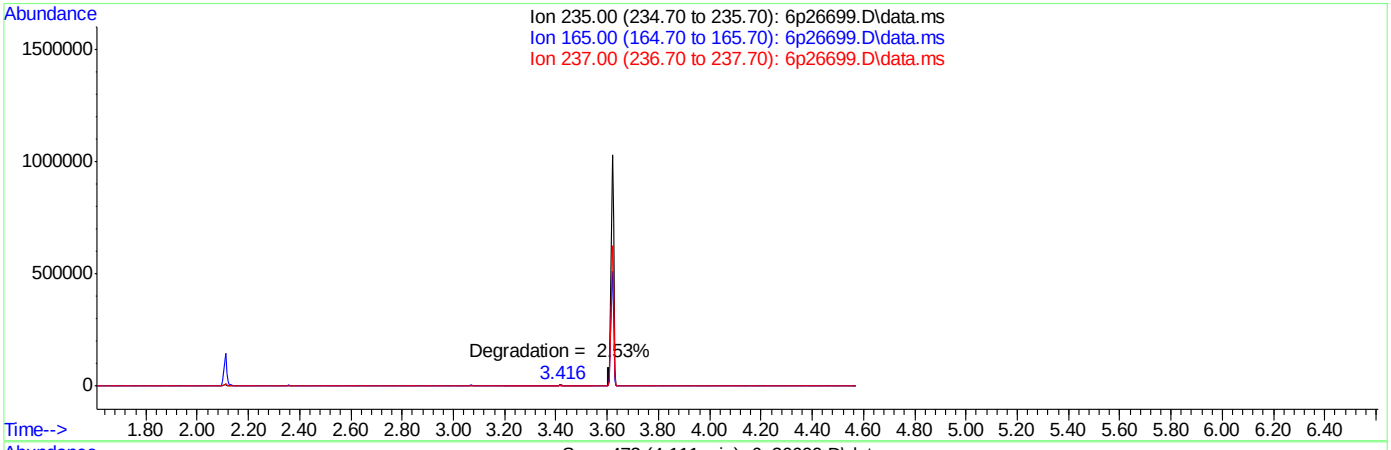
response 0

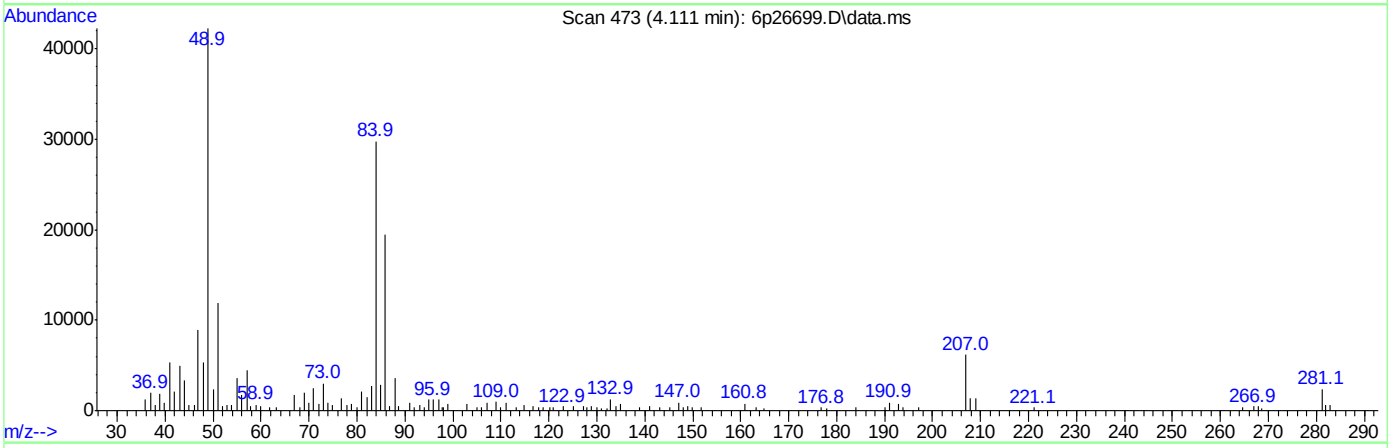
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.10	0.00
185.00	13.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26699.D
Acq On : 6 Jun 2016 8:32 am
Operator : ariellec
Sample : dftpp
Misc : op94071,e6p1239
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:37:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP6P.M
Quant Title : Semi Volatile GC/MS, ZB-5 15m x .25mm x .25um
QLast Update : Tue Apr 05 12:41:26 2016
Response via : Initial Calibration





TIC: 6p26699.D\data.ms

(3) PP-DDT (t)

4.109min (-4.109) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	93.70	0.00#
237.00	85.60	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61387a.D
Acq On : 17 May 2016 12:27 pm
Operator : linseyk
Sample : icc2887-1
Misc : op99506a,e3m2887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 14:49:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	620786	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	1084008	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1787512	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.099	264	1469201	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	1660940	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	5.859	99	2678606	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	7.400	82	2303574	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
15) 2-Fluorobiphenyl	10.939	172	5004755	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	13.827	330	565868	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
28) Terphenyl-d14	18.298	244	4956988	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	33649	0.91	ppm	100
5) Phenol	5.883	94	706558	5.00	ppm	100
6) bis(2-Chloroethyl)ether	5.968	93	100253	0.98	ppm	77
8) Nitrobenzene	7.419	77	127863	1.00	ppm	100
9) Naphthalene	8.775	128	357787	1.00	ppm	100
10) Hexachlorobutadiene	9.057	225	56499	1.00	ppm	100
11) 2-Methylnaphthalene	10.159	141	183182	1.00	ppm	100
12) 1-Methylnaphthalene	10.344	141	207642	1.00	ppm	100
13) Hexachlorocyclopentadiene	10.487	237	60970	2.00	ppm	100
16) Acenaphthylene	11.913	152	366028	1.00	ppm	100
17) Acenaphthene	12.268	153	235849	1.00	ppm	100
18) 4,6-dinitro-2-methylph...	13.507	198	129942	5.00	ppm	100
19) Fluorene	13.318	166	288245	1.00	ppm	100
22) Hexachlorobenzene	14.403	284	77257	1.00	ppm	100
23) Pentachlorophenol	14.852	266	157288	4.99	ppm	100
24) Phenanthrene	15.223	178	413617	1.00	ppm	100
25) Anthracene	15.315	178	406143	1.00	ppm	100
26) Fluoranthene	17.510	202	477859	1.00	ppm	100
27) Pyrene	17.896	202	470269	1.00	ppm	100
29) Benzo[a]anthracene	19.998	228	413326	1.00	ppm	100
30) Chrysene	20.060	228	426311	0.98	ppm	100
32) Benzo[b]fluoranthene	21.666	252	446702	1.00	ppm	100
33) Benzo[k]fluoranthene	21.713	252	418283	1.00	ppm	100
34) Benzo[a]pyrene	22.114	252	409528	1.00	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.562	276	485782	1.00	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	397987	1.00	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	405420	1.00	ppm	100

SGS ACCUTEST JC21229

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61387a.D
Acq On : 17 May 2016 12:27 pm
Operator : linseyk
Sample : icc2887-1
Misc : op99506a,e3m2887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 14:49:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

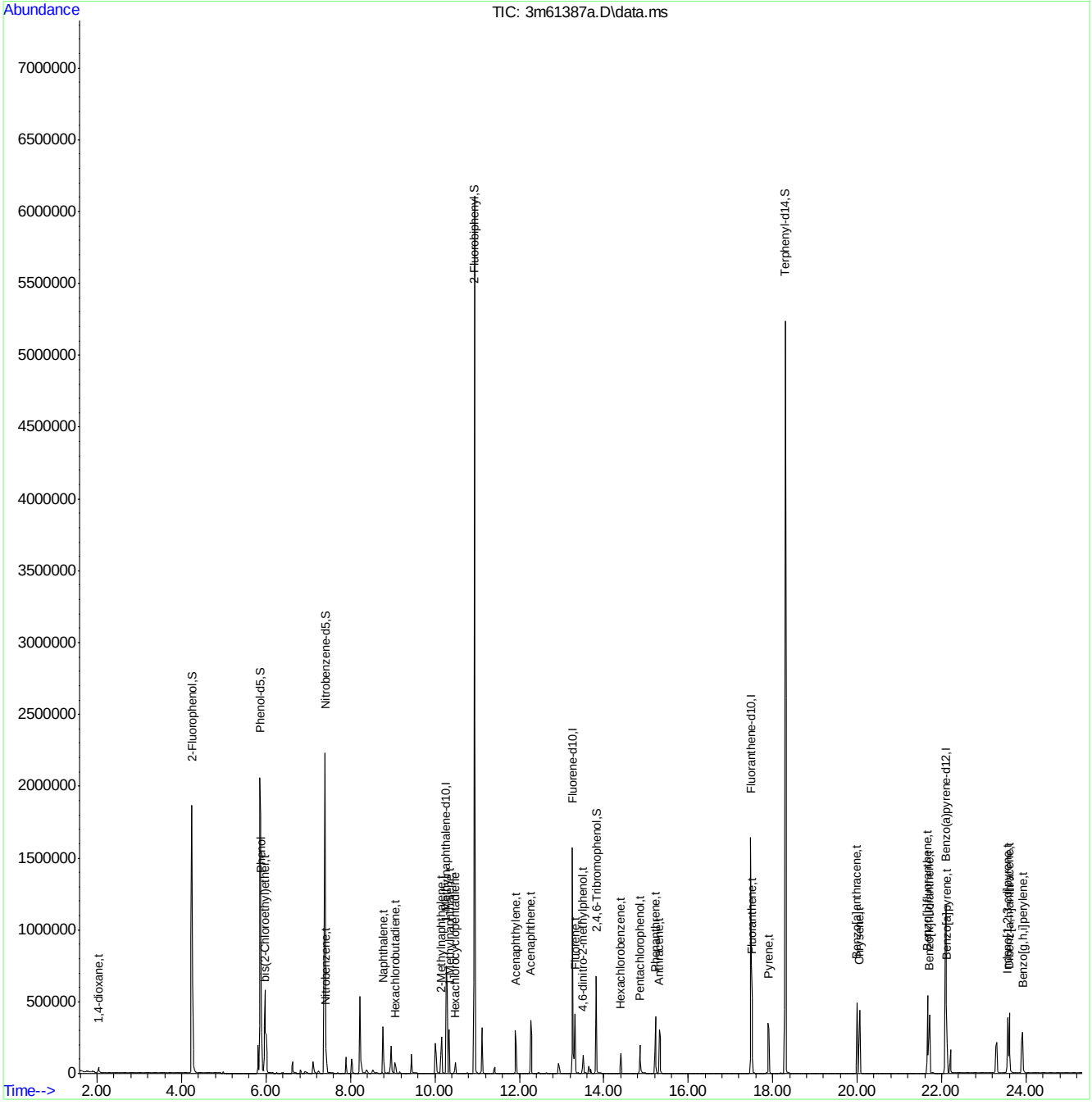
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61387a.D
Acq On : 17 May 2016 12:27 pm
Operator : linseyk
Sample : icc2887-1
Misc : op99506a,e3m2887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 17 14:49:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61388a.D
Acq On : 17 May 2016 12:59 pm
Operator : linseyk
Sample : ic2887-.5
Misc : op99506a,e3m2887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:49:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	636436	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	1072622	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1770227	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1405497	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	859426	10.09	ppm	0.00
Spiked Amount 50.000			Recovery = 20.18%			
4) Phenol-d5	5.859	99	1402828	10.22	ppm	0.00
Spiked Amount 50.000			Recovery = 20.44%			
7) Nitrobenzene-d5	7.382	82	1136271	9.62	ppm	-0.02
Spiked Amount 50.000			Recovery = 19.24%			
15) 2-Fluorobiphenyl	10.939	172	2699184	10.90	ppm	0.00
Spiked Amount 50.000			Recovery = 21.80%			
20) 2,4,6-Tribromophenol	13.808	330	281758	10.06	ppm	-0.02
Spiked Amount 50.000			Recovery = 20.12%			
28) Terphenyl-d14	18.298	244	2591898	10.56	ppm	0.00
Spiked Amount 50.000			Recovery = 21.12%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	17661	0.47	ppm	97
5) Phenol	5.883	94	365661	2.52	ppm	97
6) bis(2-Chloroethyl)ether	5.968	93	50994	0.49	ppm #	70
8) Nitrobenzene	7.419	77	64148	0.49	ppm	95
9) Naphthalene	8.775	128	186227	0.51	ppm	99
10) Hexachlorobutadiene	9.057	225	29056	0.50	ppm	97
11) 2-Methylnaphthalene	10.159	141	94032	0.50	ppm	98
12) 1-Methylnaphthalene	10.344	141	105614	0.50	ppm	99
13) Hexachlorocyclopentadiene	10.487	237	23279	0.74	ppm	100
16) Acenaphthylene	11.913	152	187265	0.52	ppm	99
17) Acenaphthene	12.269	153	119772	0.51	ppm	99
18) 4,6-dinitro-2-methylph...	13.507	198	41561	1.62	ppm	98
19) Fluorene	13.318	166	148481	0.52	ppm	99
22) Hexachlorobenzene	14.403	284	38753	0.51	ppm	98
23) Pentachlorophenol	14.852	266	65464	2.10	ppm	96
24) Phenanthrene	15.223	178	207487	0.51	ppm	100
25) Anthracene	15.316	178	196381	0.49	ppm	99
26) Fluoranthene	17.510	202	238528	0.50	ppm	99
27) Pyrene	17.897	202	231554	0.50	ppm	99
29) Benzo[a]anthracene	19.998	228	209471	0.51	ppm	99
30) Chrysene	20.060	228	215207	0.50	ppm	99
32) Benzo[b]fluoranthene	21.667	252	222470	0.52	ppm	100
33) Benzo[k]fluoranthene	21.713	252	208853	0.52	ppm	99
34) Benzo[a]pyrene	22.115	252	206984	0.53	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.562	276	241790	0.52	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	184419	0.48	ppm	100
37) Benzo[g,h,i]perylene	23.901	276	205005	0.53	ppm	96

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61388a.D
Acq On : 17 May 2016 12:59 pm
Operator : linseyk
Sample : ic2887-.5
Misc : op99506a,e3m2887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:49:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

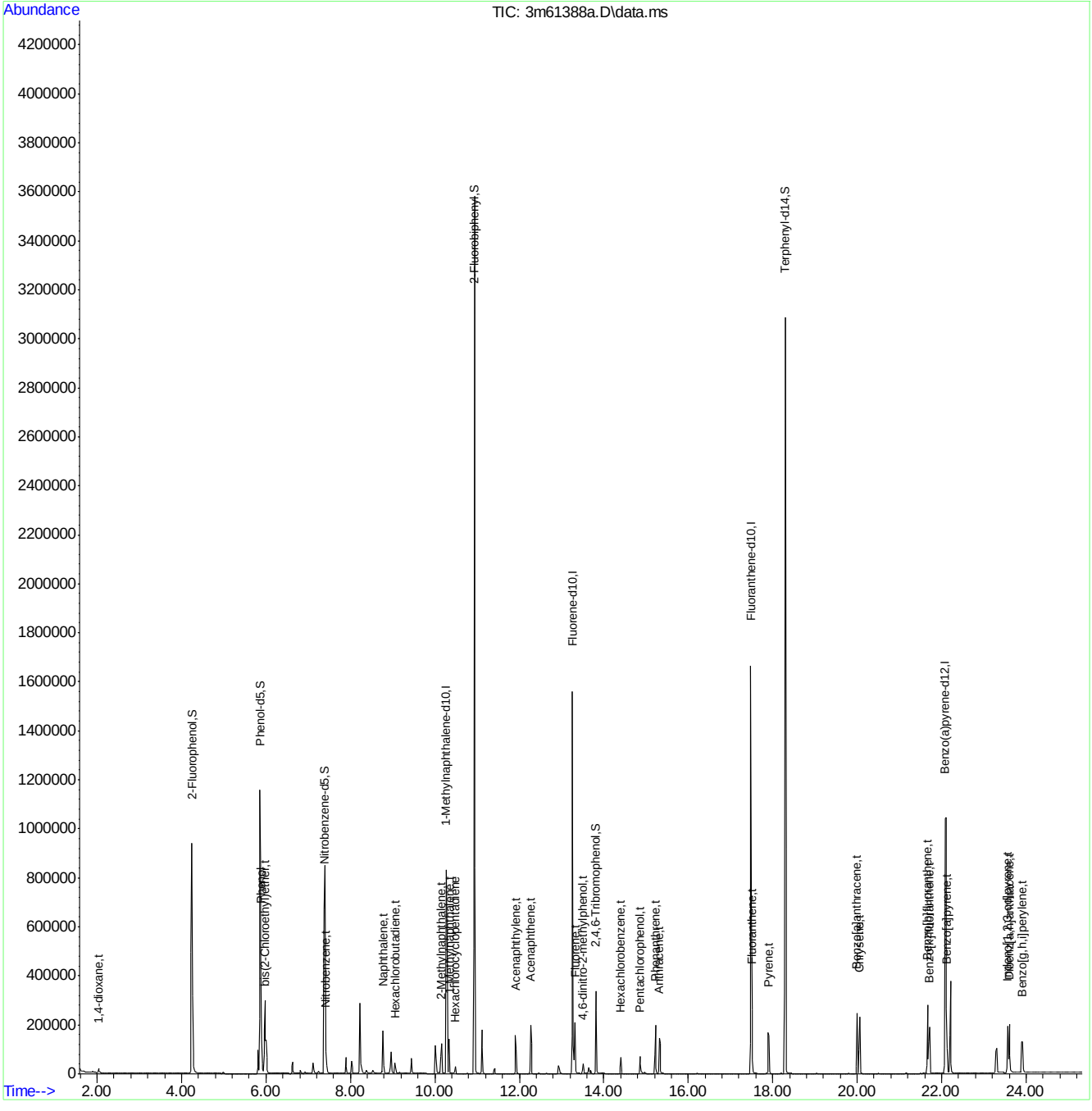
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61388a.D
Acq On : 17 May 2016 12:59 pm
Operator : linseyk
Sample : ic2887-.5
Misc : op99506a,e3m2887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 17 14:49:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61390a.D
Acq On : 17 May 2016 2:04 pm
Operator : linseyk
Sample : ic2887-.1
Misc : op99506a,e3m2887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 17 14:49:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	489285	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	787747	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1268173	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1018171	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	123757	1.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.78%	
4) Phenol-d5	5.859	99	196848	1.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.72%	
7) Nitrobenzene-d5	7.381	82	161090	1.77	ppm	-0.02
Spiked Amount 50.000			Recovery	=	3.54%	
15) 2-Fluorobiphenyl	10.939	172	393011	2.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.32%	
20) 2,4,6-Tribromophenol	13.808	330	32537	1.58	ppm	-0.02
Spiked Amount 50.000			Recovery	=	3.16%	
28) Terphenyl-d14	18.298	244	371053	2.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.22%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	2876	0.10	ppm #	63
5) Phenol	5.883	94	50697	0.46	ppm	98
6) bis(2-Chloroethyl)ether	5.968	93	7244	0.09	ppm #	71
8) Nitrobenzene	7.419	77	8844	0.09	ppm	94
9) Naphthalene	8.775	128	26624	0.09	ppm	98
10) Hexachlorobutadiene	9.057	225	4311	0.10	ppm	96
11) 2-Methylnaphthalene	10.159	141	13512	0.09	ppm	97
12) 1-Methylnaphthalene	10.344	141	15375	0.09	ppm	98
13) Hexachlorocyclopentadiene	10.487	237	700	0.03	ppm	93
16) Acenaphthylene	11.913	152	24522	0.09	ppm	98
17) Acenaphthene	12.269	153	16615	0.10	ppm	97
18) 4,6-dinitro-2-methylph...	13.525	198	944	0.05	ppm	98
19) Fluorene	13.318	166	20274	0.10	ppm	100
22) Hexachlorobenzene	14.403	284	5368	0.10	ppm	96
23) Pentachlorophenol	14.867	266	3945	0.18	ppm	91
24) Phenanthrene	15.223	178	27700	0.09	ppm	100
25) Anthracene	15.316	178	24588	0.09	ppm	100
26) Fluoranthene	17.510	202	34585	0.10	ppm	99
27) Pyrene	17.897	202	30522	0.09	ppm	98
29) Benzo[a]anthracene	19.998	228	26197	0.09	ppm	98
30) Chrysene	20.060	228	27480	0.09	ppm	99
32) Benzo[b]fluoranthene	21.666	252	28781	0.09	ppm	99
33) Benzo[k]fluoranthene	21.713	252	25738	0.09	ppm	100
34) Benzo[a]pyrene	22.115	252	26792	0.09	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.562	276	32551	0.10	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	26391	0.10	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	27261	0.10	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61390a.D
Acq On : 17 May 2016 2:04 pm
Operator : linseyk
Sample : ic2887-.1
Misc : op99506a,e3m2887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 17 14:49:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration

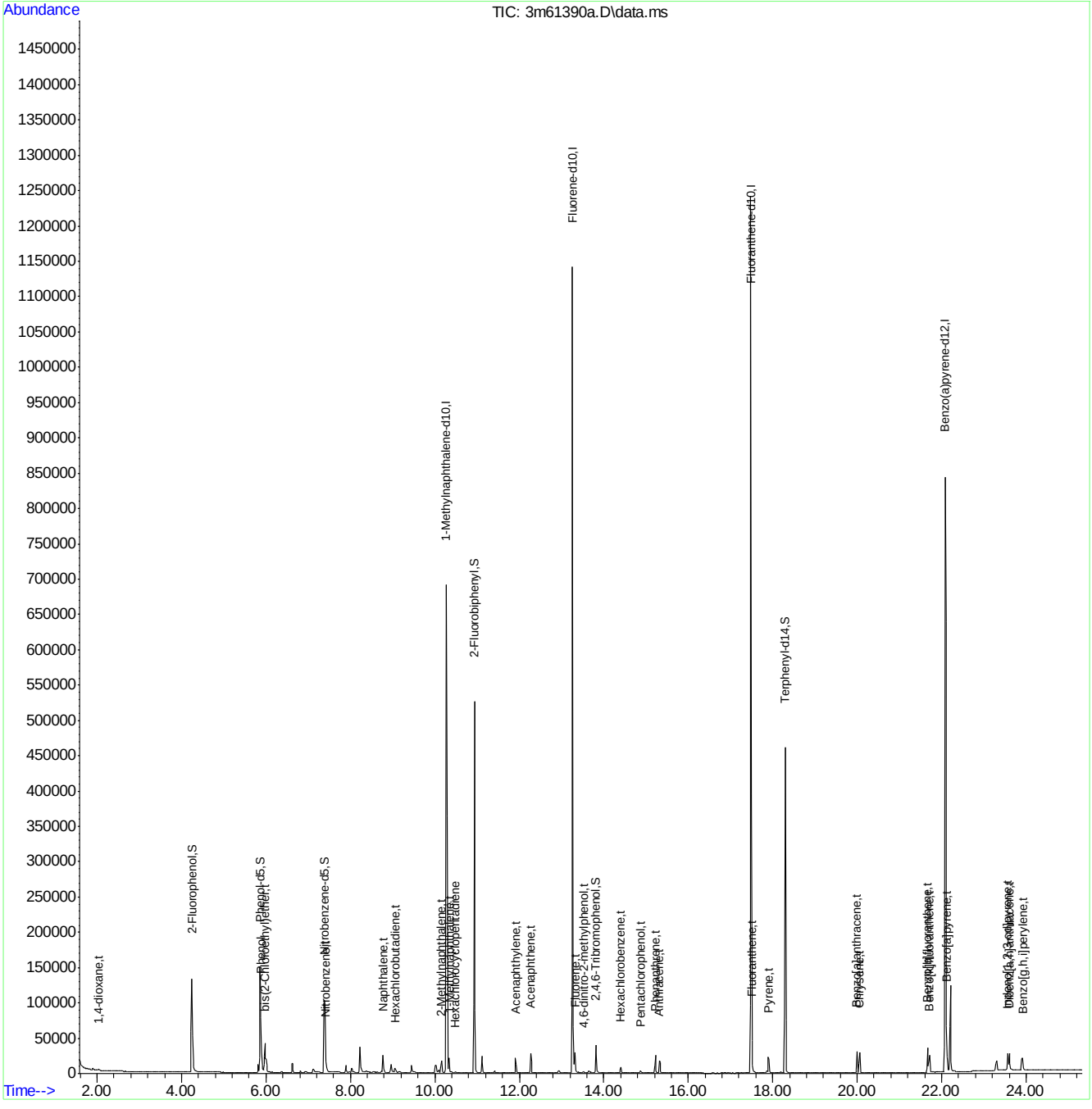
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61390a.D
Acq On : 17 May 2016 2:04 pm
Operator : linseyk
Sample : ic2887-.1
Misc : op99506a,e3m2887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 17 14:49:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:48:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61391a.D
Acq On : 17 May 2016 2:36 pm
Operator : linseyk
Sample : ic2887-.05
Misc : op99506a,e3m2887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 15:05:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:52:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	589916	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	964928	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1549257	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1255270	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	75227	0.97 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.94%	
4) Phenol-d5	5.859	99	119465	0.95 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.90%	
7) Nitrobenzene-d5	7.381	82	94807	0.91 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.82%	
15) 2-Fluorobiphenyl	10.939	172	241669	1.03 ppm	0.00
Spiked Amount 50.000			Recovery	= 2.06%	
20) 2,4,6-Tribromophenol	13.808	330	17978	0.77 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.54%	
28) Terphenyl-d14	18.298	244	226072	1.01 ppm	0.00
Spiked Amount 50.000			Recovery	= 2.02%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	2163	0.07 ppm #	58
5) Phenol	5.883	94	30333	0.23 ppm	98
6) bis(2-Chloroethyl)ether	5.968	93	4195	0.05 ppm	85
8) Nitrobenzene	7.419	77	4812	0.04 ppm	95
9) Naphthalene	8.775	128	16400	0.05 ppm	99
10) Hexachlorobutadiene	9.057	225	2540	0.05 ppm	96
11) 2-Methylnaphthalene	10.159	141	8199	0.05 ppm	97
12) 1-Methylnaphthalene	10.344	141	9380	0.05 ppm	96
13) Hexachlorocyclopentadiene	10.487	237	274	0.02 ppm	91
16) Acenaphthylene	11.913	152	14970	0.05 ppm	98
17) Acenaphthene	12.268	153	10038	0.05 ppm	96
18) 4,6-dinitro-2-methylph...	13.525	198	441	0.03 ppm	85
19) Fluorene	13.318	166	12060	0.05 ppm	100
22) Hexachlorobenzene	14.403	284	3145	0.05 ppm	94
23) Pentachlorophenol	14.867	266	1905	0.10 ppm	95
24) Phenanthrene	15.223	178	16670	0.05 ppm	100
25) Anthracene	15.315	178	14493	0.04 ppm	99
26) Fluoranthene	17.510	202	21315	0.05 ppm	98
27) Pyrene	17.896	202	17846	0.05 ppm	98
29) Benzo[a]anthracene	19.998	228	15261	0.04 ppm	99
30) Chrysene	20.060	228	16857	0.05 ppm	99
32) Benzo[b]fluoranthene	21.666	252	17407	0.05 ppm	99
33) Benzo[k]fluoranthene	21.713	252	15422	0.04 ppm	98
34) Benzo[a]pyrene	22.115	252	16345	0.05 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.562	276	18972	0.05 ppm	99
36) Dibenz[a,h]anthracene	23.600	278	15896	0.05 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	17134	0.05 ppm	100

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61391a.D
Acq On : 17 May 2016 2:36 pm
Operator : linseyk
Sample : ic2887-.05
Misc : op99506a,e3m2887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 15:05:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:52:15 2016
Response via : Initial Calibration

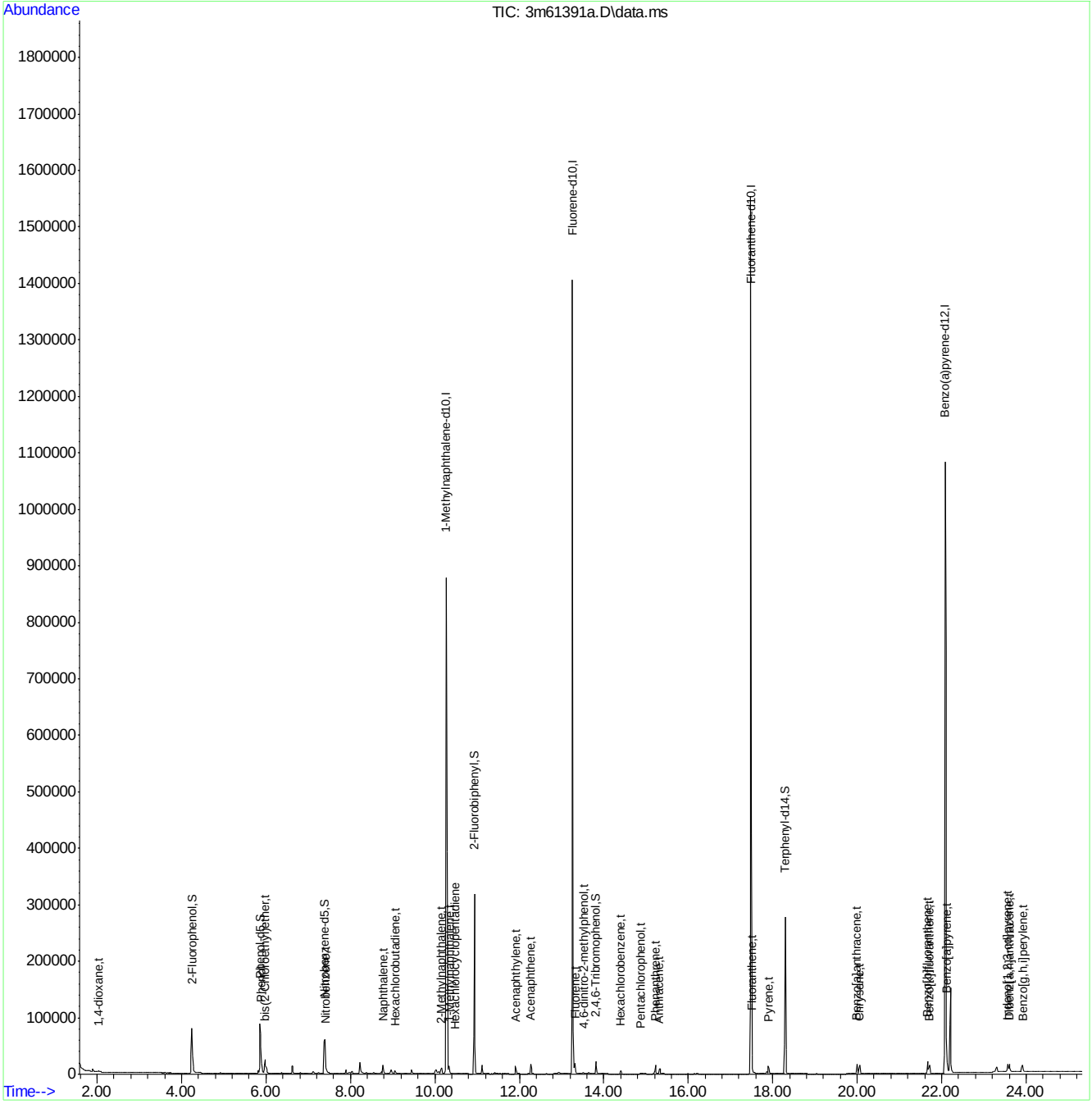
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61391a.D
Acq On : 17 May 2016 2:36 pm
Operator : linseyk
Sample : ic2887-.05
Misc : op99506a,e3m2887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 17 15:05:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 14:52:15 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:12:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration

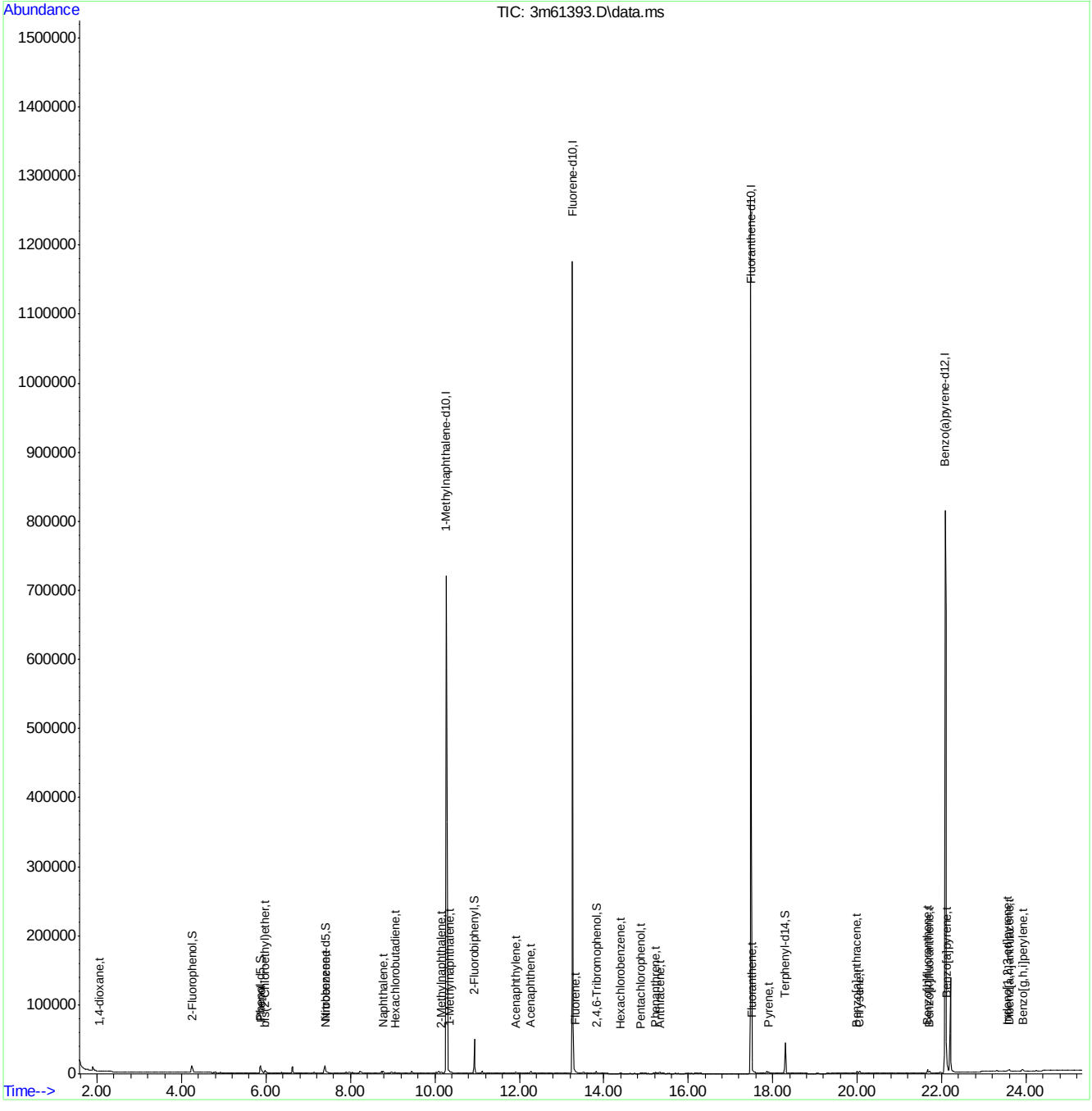
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	504913	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	819520	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1273468	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1015573	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	11477	0.17 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.34%	
4) Phenol-d5	5.871	99	17852	0.17 ppm	0.01
Spiked Amount 50.000			Recovery	= 0.34%	
7) Nitrobenzene-d5	7.400	82	13608	0.16 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.32%	
15) 2-Fluorobiphenyl	10.939	172	38486	0.19 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.38%	
20) 2,4,6-Tribromophenol	13.827	330	2645	0.13 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.26%	
28) Terphenyl-d14	18.298	244	36463	0.20 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.40%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.050	88	681	0.02 ppm	80
5) Phenol	5.883	94	4393	0.04 ppm #	75
6) bis(2-Chloroethyl)ether	5.968	93	633	0.01 ppm	95
8) Nitrobenzene	7.419	77	803	0.01 ppm	93
9) Naphthalene	8.775	128	2725	0.01 ppm	98
10) Hexachlorobutadiene	9.057	225	428	0.01 ppm	95
11) 2-Methylnaphthalene	10.159	141	1732	0.01 ppm	93
12) 1-Methylnaphthalene	10.344	141	2280	0.01 ppm	100
16) Acenaphthylene	11.913	152	2353	0.01 ppm	98
17) Acenaphthene	12.268	153	1648	0.01 ppm	96
19) Fluorene	13.318	166	1944	0.01 ppm	99
22) Hexachlorobenzene	14.403	284	551	0.01 ppm	95
23) Pentachlorophenol	14.883	266	197	0.01 ppm	89
24) Phenanthrene	15.223	178	2797	0.01 ppm	97
25) Anthracene	15.331	178	2324	0.01 ppm	90
26) Fluoranthene	17.510	202	4664	0.01 ppm	98
27) Pyrene	17.896	202	2952	0.01 ppm	99
29) Benzo[a]anthracene	19.998	228	2693	0.01 ppm	99
30) Chrysene	20.060	228	2630	0.01 ppm	97
32) Benzo[b]fluoranthene	21.666	252	3231	0.01 ppm	83
33) Benzo[k]fluoranthene	21.713	252	2619	0.01 ppm	93
34) Benzo[a]pyrene	22.115	252	2601m	0.01 ppm	
35) Indeno[1,2,3-cd]pyrene	23.562	276	2837	0.01 ppm	97
36) Dibenz[a,h]anthracene	23.600	278	2289	0.01 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	2661	0.01 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:12:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration

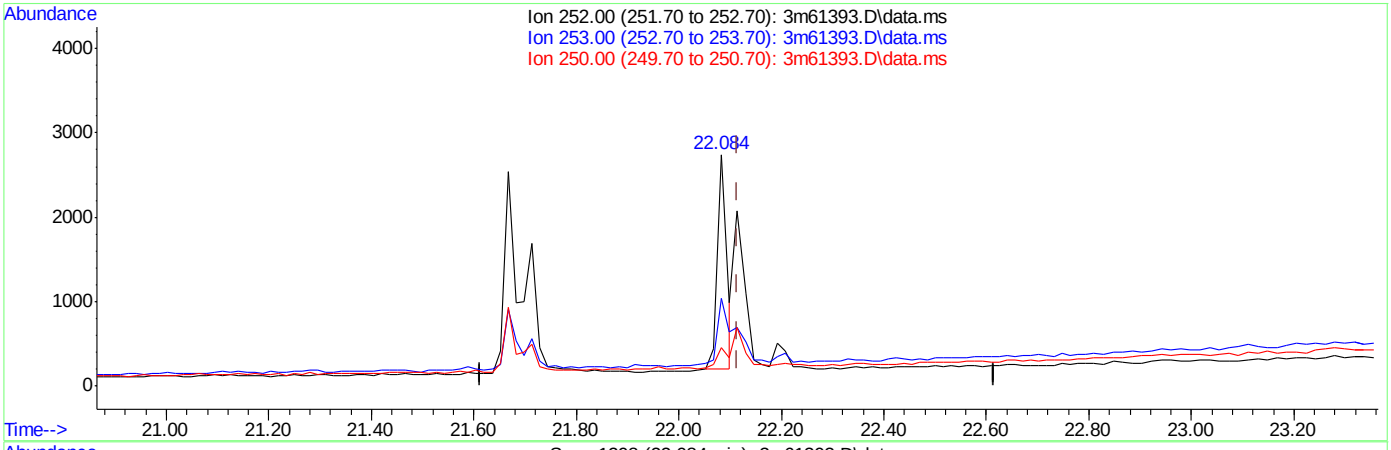


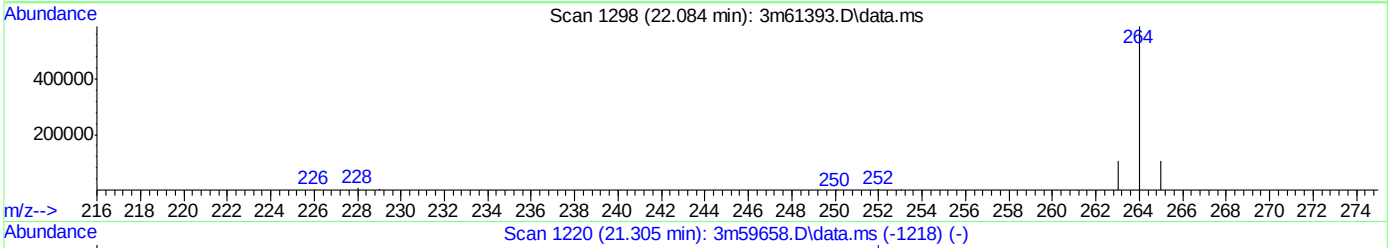
SGS ACCUTEST JC21229

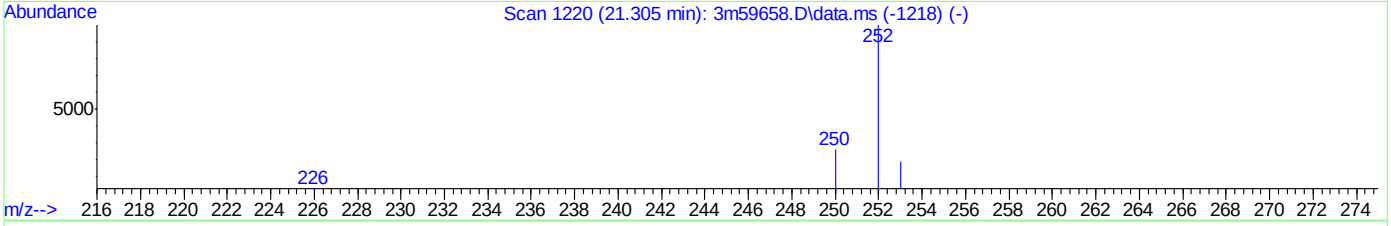
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration







TIC: 3m61393.D\data.ms

(34) Benzo[a]pyrene (t)

22.084min (-0.031) 0.01ppm

response 3287

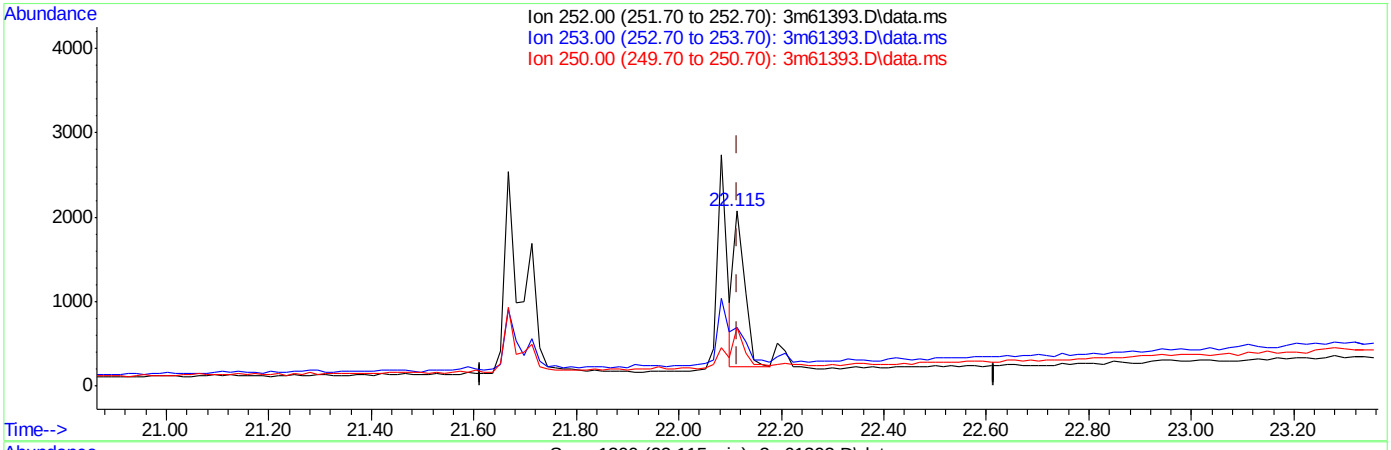
Ion	Exp%	Act%
252.00	100	100
253.00	18.60	27.33
250.00	25.50	8.40
0.00	0.00	0.00

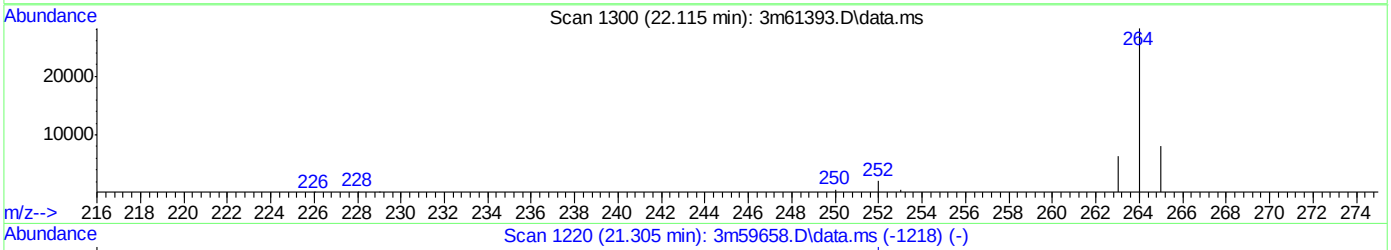
SGS ACCUTEST JC21229

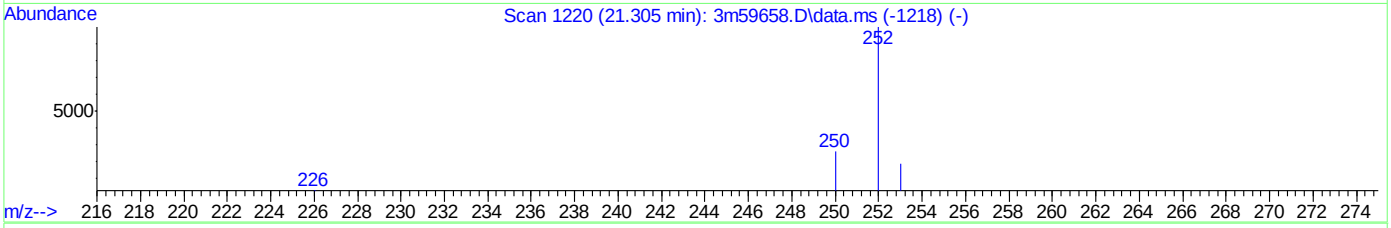
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61393.D
Acq On : 17 May 2016 3:41 pm
Operator : linseyk
Sample : ic2887-.01
Misc : op99506a,e3m2887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 17 16:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 15:06:06 2016
Response via : Initial Calibration







TIC: 3m61393.D\data.ms

(34) Benzo[a]pyrene (t)

22.115min (-0.000) 0.01ppm m

response 2601

Ion	Exp%	Act%
252.00	100	100
253.00	18.60	33.46
250.00	25.50	33.56
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61394.D
Acq On : 17 May 2016 4:13 pm
Operator : linseyk
Sample : ic2887-5
Misc : op99506a,e3m2887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 17 17:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 16:38:41 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	511536	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	943915	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1327470	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1082709	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	6265549	94.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	189.82%	
4) Phenol-d5	5.871	99	9999975	96.77	ppm	0.00
Spiked Amount 50.000			Recovery	=	193.54%	
7) Nitrobenzene-d5	7.400	82	8227170	94.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	189.16%	
15) 2-Fluorobiphenyl	10.955	172	14254553	62.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	124.06%	
20) 2,4,6-Tribromophenol	13.827	330	2350578	101.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	203.44%	
28) Terphenyl-d14	18.314	244	14135087	77.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	155.72%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	120459	3.33	ppm	95
5) Phenol	5.883	94	2623407	23.84	ppm #	70
6) bis(2-Chloroethyl)ether	5.980	93	403057	5.28	ppm #	52
8) Nitrobenzene	7.438	77	423629	4.62	ppm #	12
9) Naphthalene	8.775	128	1412362	4.94	ppm	100
10) Hexachlorobutadiene	9.057	225	220282	4.90	ppm	99
11) 2-Methylnaphthalene	10.159	141	735664	4.86	ppm	96
12) 1-Methylnaphthalene	10.344	141	816822	4.63	ppm	98
13) Hexachlorocyclopentadiene	10.487	237	381411	21.67	ppm	100
16) Acenaphthylene	11.913	152	1504834	5.00	ppm	99
17) Acenaphthene	12.268	153	930113	4.70	ppm	100
18) 4,6-dinitro-2-methylph...	13.507	198	781771	44.17	ppm #	55
19) Fluorene	13.318	166	1158718	4.81	ppm	98
22) Hexachlorobenzene	14.403	284	302040	5.28	ppm	99
23) Pentachlorophenol	14.852	266	814602	45.07	ppm	98
24) Phenanthrene	15.223	178	1607944	5.34	ppm	99
25) Anthracene	15.315	178	1610273	5.80	ppm	99
26) Fluoranthene	17.510	202	1795403	4.71	ppm	99
27) Pyrene	17.896	202	1835416	5.52	ppm	98
29) Benzo[a]anthracene	19.998	228	1662849	5.64	ppm	100
30) Chrysene	20.060	228	1663715	5.37	ppm	99
32) Benzo[b]fluoranthene	21.666	252	1707636	5.27	ppm	98
33) Benzo[k]fluoranthene	21.713	252	1679688	5.65	ppm	99
34) Benzo[a]pyrene	22.114	252	1578687	5.32	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.562	276	1880359	5.42	ppm	97
36) Dibenz[a,h]anthracene	23.600	278	1447994	5.22	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	1577763	5.26	ppm	100

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61394.D
Acq On : 17 May 2016 4:13 pm
Operator : linseyk
Sample : ic2887-5
Misc : op99506a,e3m2887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 17 17:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 16:38:41 2016
Response via : Initial Calibration

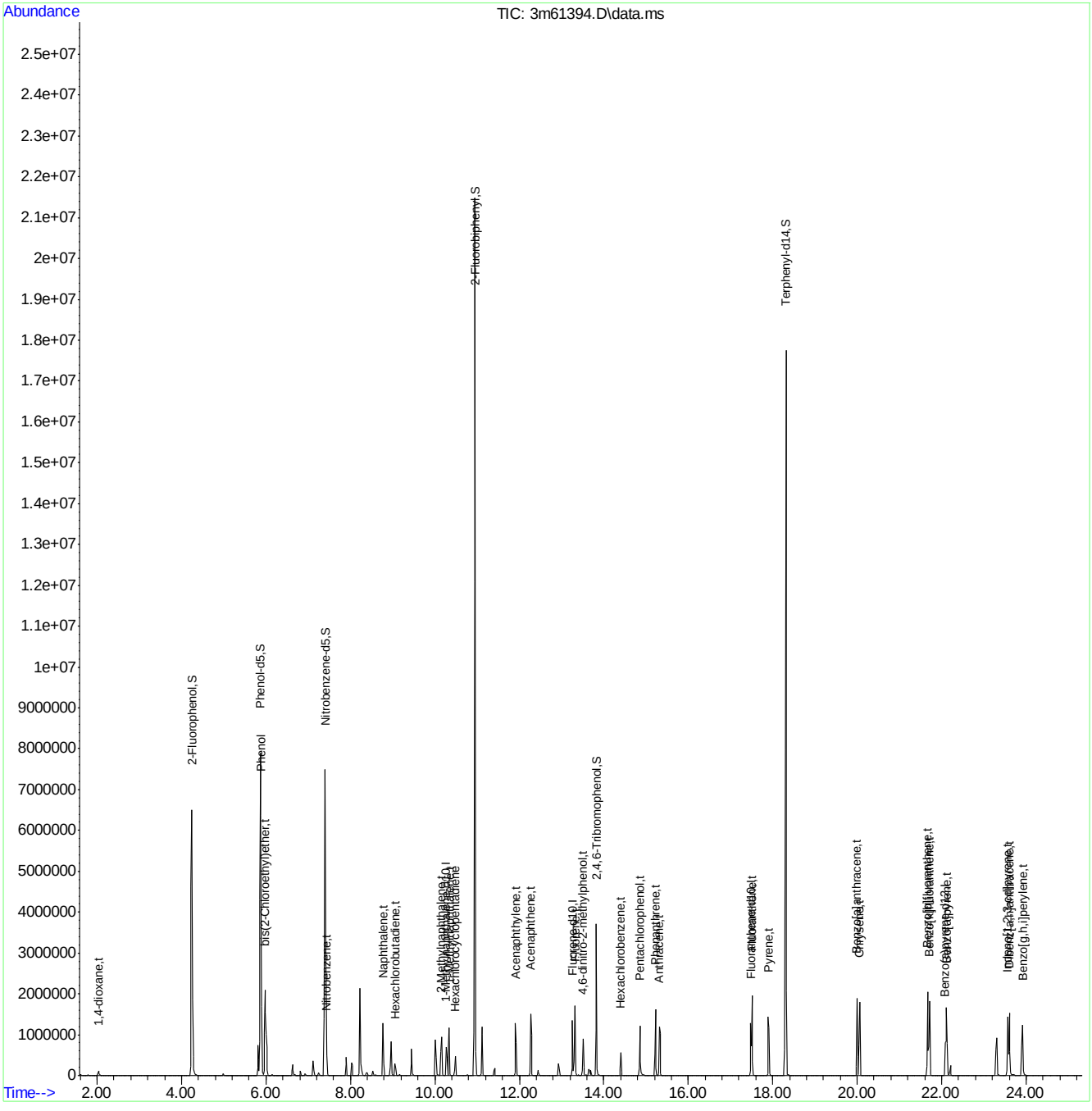
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61394.D
Acq On : 17 May 2016 4:13 pm
Operator : linseyk
Sample : ic2887-5
Misc : op99506a,e3m2887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 17 17:10:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 16:38:41 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61395.D
Acq On : 17 May 2016 4:46 pm
Operator : linseyk
Sample : ic2887-2.5
Misc : op99506a,e3m2887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 08:19:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	521746	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	905686	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1354940	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1090621	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	3215370	48.19	ppm	0.00
Spiked Amount 50.000			Recovery = 96.38%			
4) Phenol-d5	5.859	99	5194594	48.36	ppm	-0.01
Spiked Amount 50.000			Recovery = 96.72%			
7) Nitrobenzene-d5	7.400	82	5124781	56.53	ppm	0.00
Spiked Amount 50.000			Recovery = 113.06%			
15) 2-Fluorobiphenyl	10.939	172	9805130	43.78	ppm	0.00
Spiked Amount 50.000			Recovery = 87.56%			
20) 2,4,6-Tribromophenol	13.827	330	1139022	51.78	ppm	0.00
Spiked Amount 50.000			Recovery = 103.56%			
28) Terphenyl-d14	18.314	244	9613871	50.82	ppm	0.02
Spiked Amount 50.000			Recovery = 101.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	64032	2.16	ppm	98
5) Phenol	5.883	94	1384259	12.30	ppm	92
6) bis(2-Chloroethyl)ether	5.968	93	196747	2.70	ppm	88
8) Nitrobenzene	7.419	77	248348	2.66	ppm	94
9) Naphthalene	8.775	128	723202	2.46	ppm	100
10) Hexachlorobutadiene	9.057	225	109982	2.39	ppm	99
11) 2-Methylnaphthalene	10.159	141	365534	2.37	ppm	97
12) 1-Methylnaphthalene	10.344	141	394856	2.24	ppm	95
13) Hexachlorocyclopentadiene	10.487	237	156024	5.01	ppm	98
16) Acenaphthylene	11.913	152	730026	2.51	ppm	99
17) Acenaphthene	12.269	153	463465	2.41	ppm	98
18) 4,6-dinitro-2-methylph...	13.507	198	371702	12.93	ppm	92
19) Fluorene	13.318	166	562503	2.40	ppm	99
22) Hexachlorobenzene	14.403	284	151194	2.52	ppm	98
23) Pentachlorophenol	14.852	266	363206	12.65	ppm	96
24) Phenanthrene	15.223	178	802041	2.54	ppm	100
25) Anthracene	15.316	178	792720	2.76	ppm	100
26) Fluoranthene	17.510	202	908701	2.36	ppm	99
27) Pyrene	17.897	202	898533	2.60	ppm	99
29) Benzo[a]anthracene	19.998	228	817299	2.67	ppm	100
30) Chrysene	20.060	228	829273	2.63	ppm	99
32) Benzo[b]fluoranthene	21.667	252	865021	2.56	ppm	100
33) Benzo[k]fluoranthene	21.713	252	817425	2.76	ppm	100
34) Benzo[a]pyrene	22.115	252	792856	2.61	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.562	276	923237	2.57	ppm	100
36) Dibenz[a,h]anthracene	23.600	278	713402	2.51	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	781865	2.54	ppm	100

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61395.D
Acq On : 17 May 2016 4:46 pm
Operator : linseyk
Sample : ic2887-2.5
Misc : op99506a,e3m2887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 08:19:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

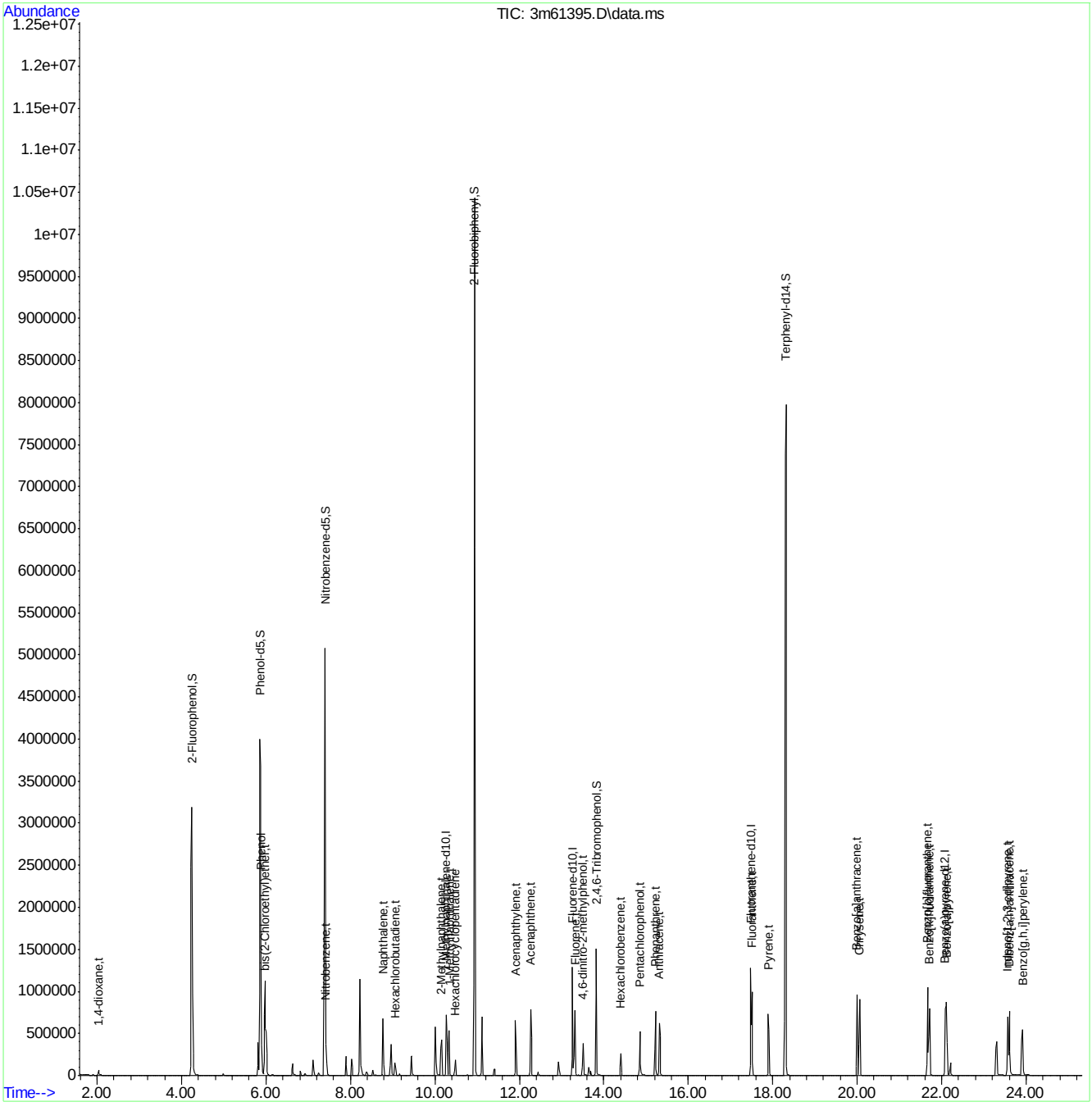
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61395.D
Acq On : 17 May 2016 4:46 pm
Operator : linseyk
Sample : ic2887-2.5
Misc : op99506a,e3m2887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 18 08:19:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61389b.D
Acq On : 17 May 2016 5:18 pm
Operator : linseyk
Sample : ic2887-.2
Misc : op99506a,e3m2887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 08:01:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 17:13:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	497772	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	793484	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1240303	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	999870	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	252126	3.95 ppm	0.00
Spiked Amount 50.000			Recovery	= 7.90%	
4) Phenol-d5	5.859	99	411696	4.10 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.20%	
7) Nitrobenzene-d5	7.381	82	337792	3.89 ppm	-0.02
Spiked Amount 50.000			Recovery	= 7.78%	
15) 2-Fluorobiphenyl	10.939	172	811462	4.28 ppm	0.00
Spiked Amount 50.000			Recovery	= 8.56%	
20) 2,4,6-Tribromophenol	13.808	330	71918	3.68 ppm	-0.02
Spiked Amount 50.000			Recovery	= 7.36%	
28) Terphenyl-d14	18.298	244	752276	4.41 ppm	-0.02
Spiked Amount 50.000			Recovery	= 8.82%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.035	88	5727	0.17 ppm	100
5) Phenol	5.883	94	106195	0.99 ppm #	89
6) bis(2-Chloroethyl)ether	5.968	93	14800	0.23 ppm	76
8) Nitrobenzene	7.419	77	17724	0.20 ppm	93
9) Naphthalene	8.775	128	55482	0.20 ppm	99
10) Hexachlorobutadiene	9.057	225	8434	0.19 ppm	99
11) 2-Methylnaphthalene	10.159	141	26927	0.18 ppm	99
12) 1-Methylnaphthalene	10.344	141	31388	0.19 ppm	96
13) Hexachlorocyclopentadiene	10.487	237	3046	0.16 ppm	100
16) Acenaphthylene	11.913	152	50183	0.20 ppm	99
17) Acenaphthene	12.268	153	33424	0.20 ppm	98
18) 4,6-dinitro-2-methylph...	13.507	198	4378	0.26 ppm	75
19) Fluorene	13.318	166	41140	0.20 ppm	99
22) Hexachlorobenzene	14.403	284	10881	0.20 ppm	99
23) Pentachlorophenol	14.852	266	9975	0.54 ppm	93
24) Phenanthrene	15.223	178	57338	0.20 ppm	99
25) Anthracene	15.315	178	50560	0.19 ppm	99
26) Fluoranthene	17.510	202	67591	0.19 ppm	99
27) Pyrene	17.896	202	60651	0.19 ppm	99
29) Benzo[a]anthracene	19.998	228	51477	0.18 ppm	100
30) Chrysene	20.060	228	54974	0.19 ppm	99
32) Benzo[b]fluoranthene	21.666	252	57557	0.19 ppm	99
33) Benzo[k]fluoranthene	21.713	252	51792	0.19 ppm	99
34) Benzo[a]pyrene	22.114	252	53437	0.19 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.562	276	65230	0.20 ppm	99
36) Dibenz[a,h]anthracene	23.600	278	52982	0.21 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	53492	0.19 ppm	100

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61389b.D
Acq On : 17 May 2016 5:18 pm
Operator : linseyk
Sample : ic2887-.2
Misc : op99506a,e3m2887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 08:01:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 17:13:16 2016
Response via : Initial Calibration

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

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

7.6.8

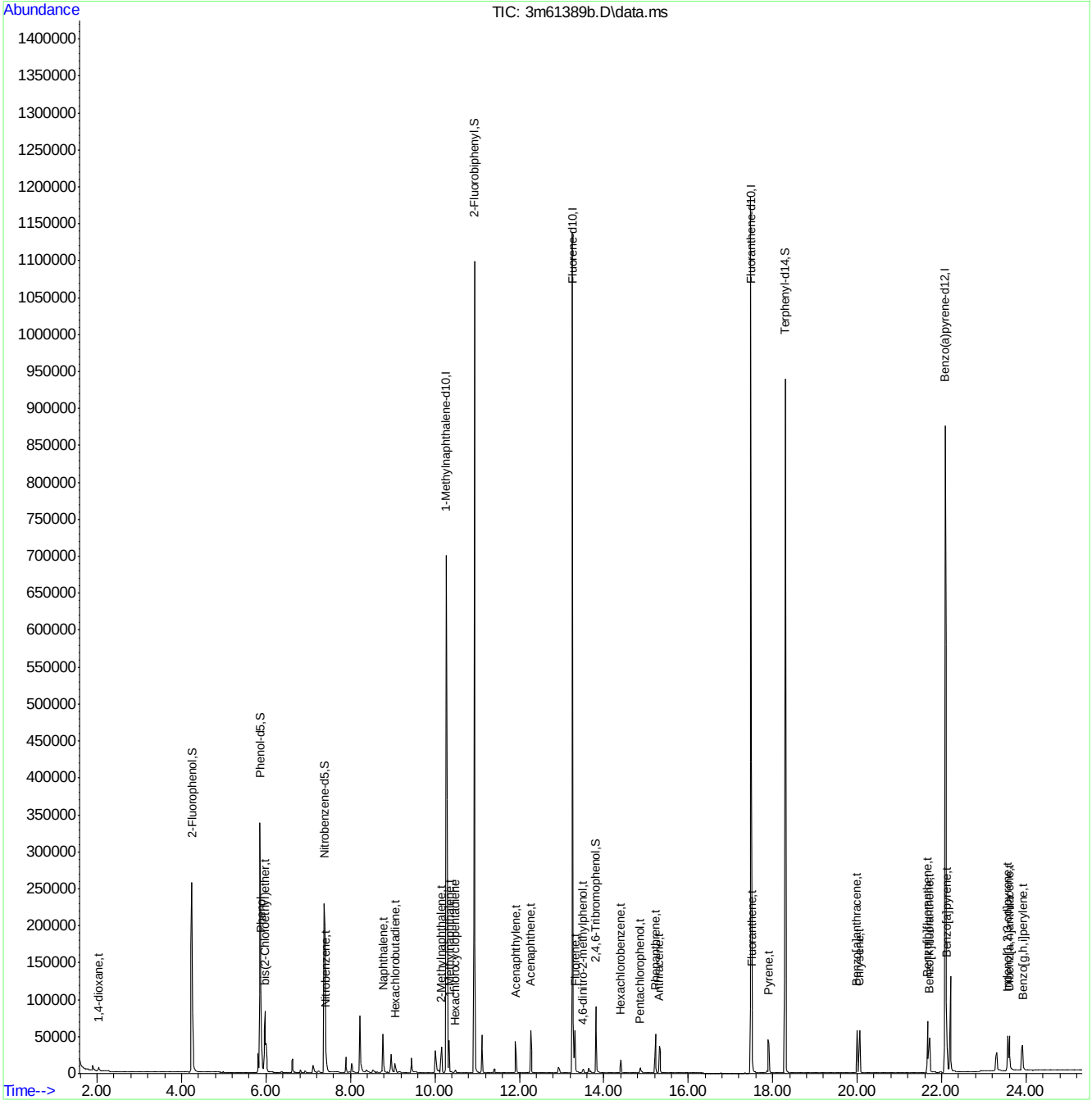
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61389b.D
Acq On : 17 May 2016 5:18 pm
Operator : linseyk
Sample : ic2887-.2
Misc : op99506a,e3m2887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 18 08:01:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 17 17:13:16 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61392b.D
Acq On : 17 May 2016 6:08 pm
Operator : linseyk
Sample : ic2887-.02
Misc : op99506a,e3m2887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 08:02:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:01:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	425322	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	662899	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1045151	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.099	264	867889	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	31821	0.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.18%	
4) Phenol-d5	5.859	99	51288	0.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.20%	
7) Nitrobenzene-d5	7.381	82	27946	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
15) 2-Fluorobiphenyl	10.939	172	76602	0.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.96%	
20) 2,4,6-Tribromophenol	13.827	330	7646	0.47	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.94%	
28) Terphenyl-d14	18.298	244	77588	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.035	88	904	0.03	ppm	92
5) Phenol	5.883	94	9543	0.10	ppm #	68
6) bis(2-Chloroethyl)ether	5.968	93	1672	0.03	ppm #	62
8) Nitrobenzene	7.419	77	1435	0.02	ppm	94
9) Naphthalene	8.775	128	5230	0.02	ppm	98
10) Hexachlorobutadiene	9.057	225	819	0.02	ppm	99
11) 2-Methylnaphthalene	10.159	141	2818	0.02	ppm	92
12) 1-Methylnaphthalene	10.344	141	3001	0.02	ppm	100
16) Acenaphthylene	11.913	152	4439	0.02	ppm	98
17) Acenaphthene	12.269	153	3120	0.02	ppm	99
19) Fluorene	13.318	166	3839	0.02	ppm	99
22) Hexachlorobenzene	14.403	284	1073	0.02	ppm	96
23) Pentachlorophenol	14.867	266	583	0.04	ppm	91
24) Phenanthrene	15.223	178	5629	0.02	ppm	99
25) Anthracene	15.331	178	4540	0.02	ppm	90
26) Fluoranthene	17.510	202	7847	0.03	ppm	100
27) Pyrene	17.912	202	5906	0.02	ppm	85
29) Benzo[a]anthracene	19.998	228	5283	0.02	ppm	100
30) Chrysene	20.060	228	5804	0.02	ppm	97
32) Benzo[b]fluoranthene	21.667	252	6553	0.03	ppm	96
33) Benzo[k]fluoranthene	21.713	252	4149	0.02	ppm	97
34) Benzo[a]pyrene	22.115	252	8248	0.03	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.562	276	6459	0.02	ppm	96
36) Dibenz[a,h]anthracene	23.600	278	4857	0.02	ppm	100
37) Benzo[g,h,i]perylene	23.920	276	5588	0.02	ppm	99

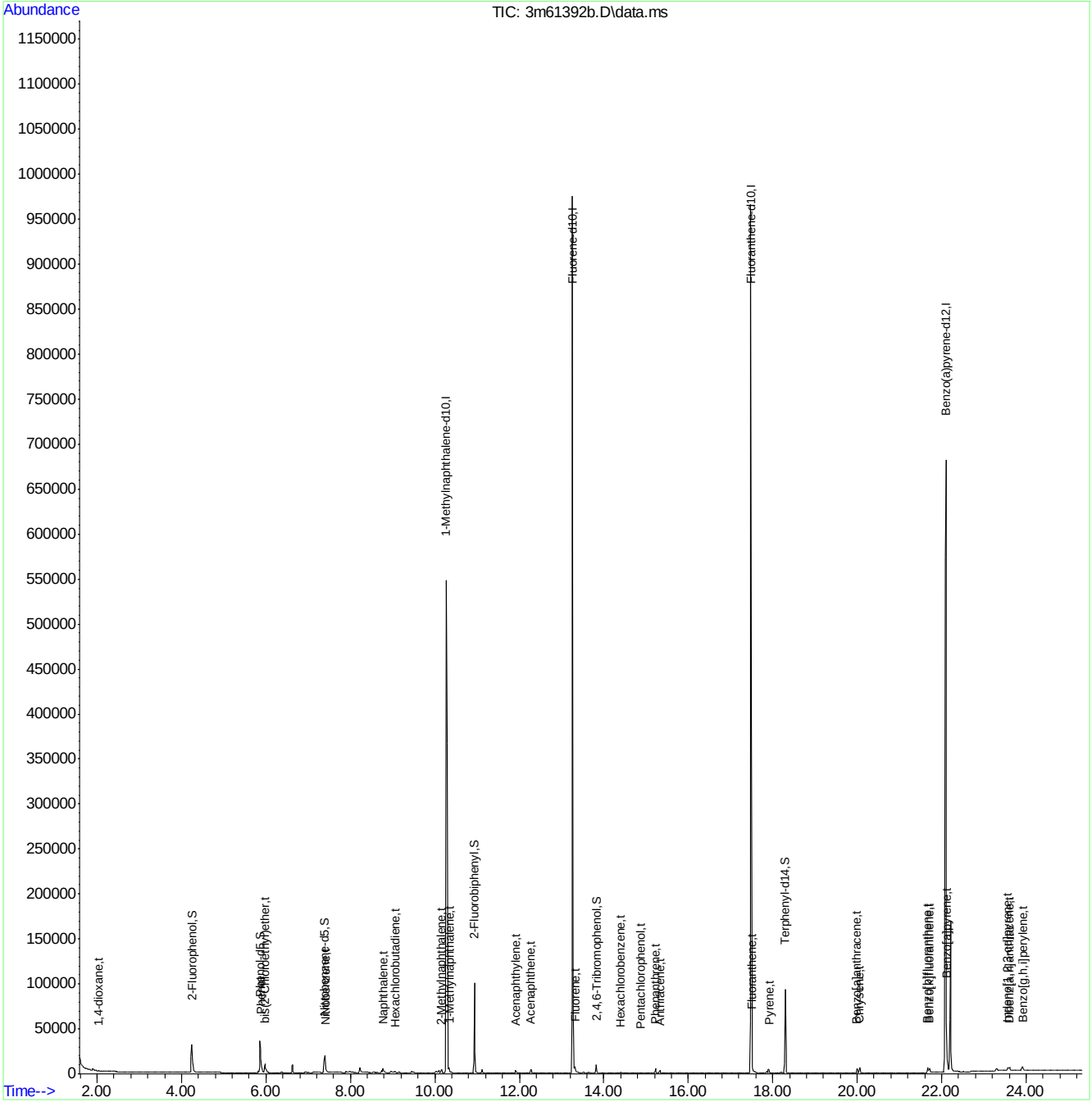
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61392b.D
Acq On : 17 May 2016 6:08 pm
Operator : linseyk
Sample : ic2887-.02
Misc : op99506a,e3m2887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 18 08:02:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:01:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61397.D
Acq On : 17 May 2016 7:13 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 08:22:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.262	150	496174	4.00 ppm	0.00
14) Fluorene-d10	13.262	176	782333	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	1127034	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	842113	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
6) bis(2-Chloroethyl)ether	5.968	93	88313	1.15 ppm	90
8) Nitrobenzene	7.419	77	94056	1.06 ppm	95
9) Naphthalene	8.775	128	313132	1.12 ppm	99
10) Hexachlorobutadiene	9.057	225	46515	1.06 ppm	98
11) 2-Methylnaphthalene	10.159	141	150728	1.03 ppm	97
16) Acenaphthylene	11.913	152	283705	1.13 ppm	99
17) Acenaphthene	12.269	153	196361	1.18 ppm	100
19) Fluorene	13.318	166	226456	1.12 ppm	100
22) Hexachlorobenzene	14.403	284	56666	1.14 ppm	97
24) Phenanthrene	15.223	178	308424	1.17 ppm	99
25) Anthracene	15.316	178	273901	1.15 ppm	100
26) Fluoranthene	17.510	202	355769	1.11 ppm	99
27) Pyrene	17.897	202	337021	1.17 ppm	99
29) Benzo[a]anthracene	19.998	228	280240	1.10 ppm	98
30) Chrysene	20.060	228	289792	1.10 ppm	100
32) Benzo[b]fluoranthene	21.667	252	264028	1.01 ppm	98
33) Benzo[k]fluoranthene	21.713	252	269228	1.18 ppm	99
34) Benzo[a]pyrene	22.115	252	264564	1.13 ppm	99
35) Indeno[1,2,3-cd]pyrene	23.562	276	303278	1.09 ppm	99
36) Dibenz[a,h]anthracene	23.600	278	243498	1.11 ppm	100
37) Benzo[g,h,i]perylene	23.920	276	249741	1.05 ppm	100

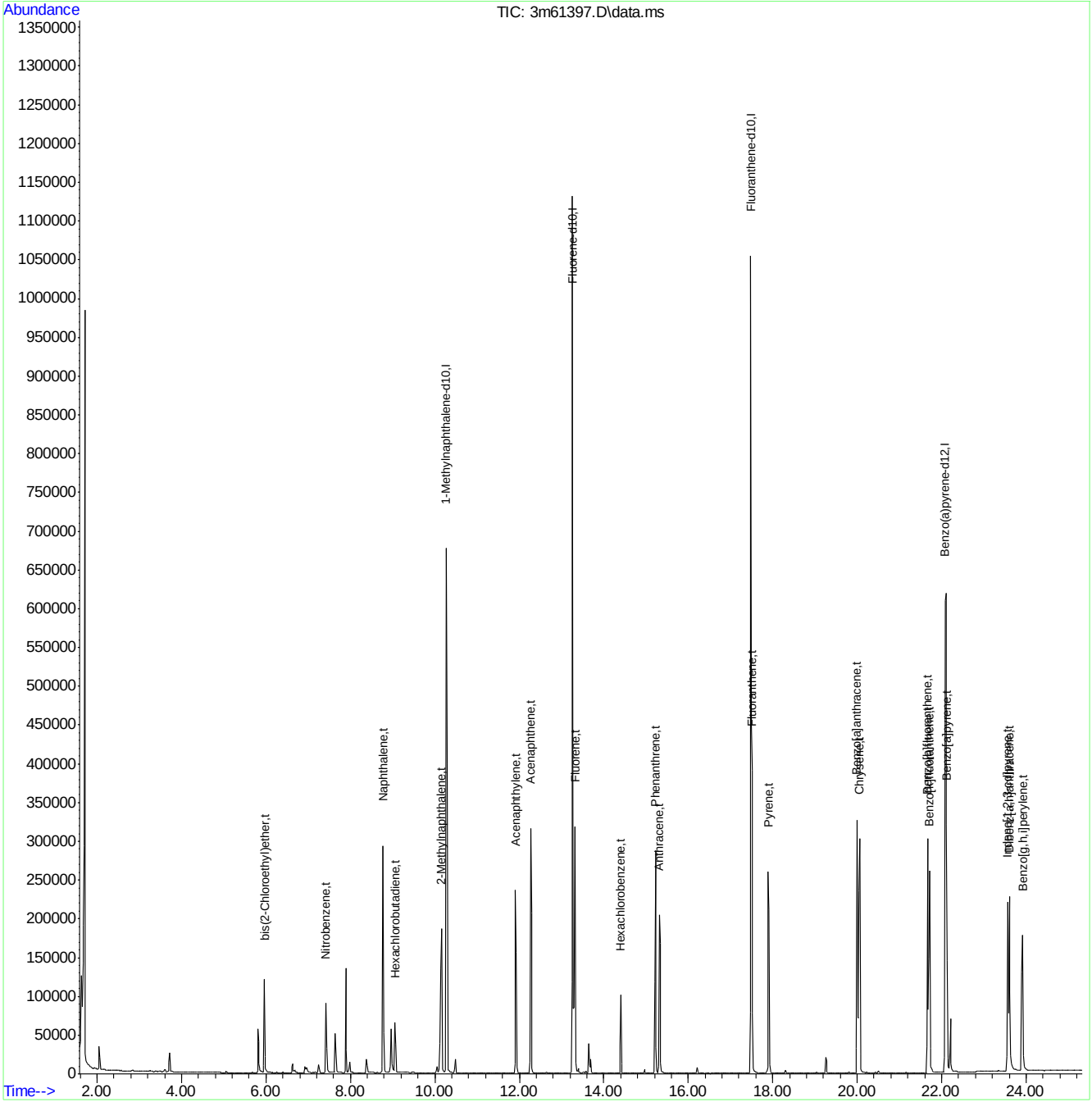
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61397.D
Acq On : 17 May 2016 7:13 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 18 08:22:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61398.D
Acq On : 17 May 2016 7:45 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 08:22:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	764566	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	1155491	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1850821	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	1478775	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
2) 1,4-dioxane	2.035	88	42052	0.97	ppm	87
12) 1-Methylnaphthalene	10.344	141	243639	0.94	ppm	99
13) Hexachlorocyclopentadiene	10.487	237	30105	0.97	ppm	97

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

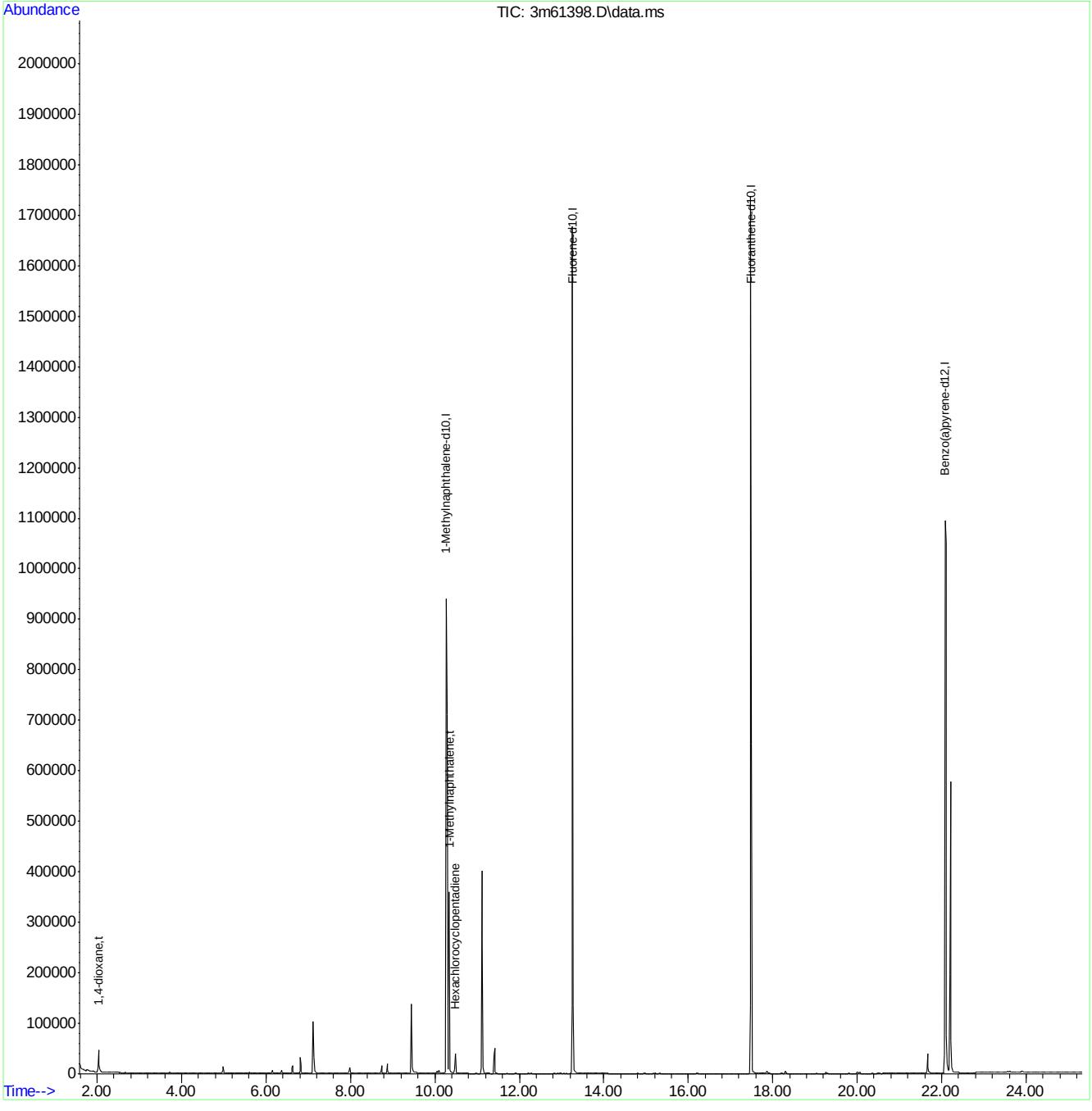
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2887\
Data File : 3m61398.D
Acq On : 17 May 2016 7:45 pm
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2887
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 18 08:22:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



M3M2887SIM.M Wed May 18 08:22:13 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61400.D
Acq On : 18 May 2016 9:12 am
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2888
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 09:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.262	150	553654	4.00	ppm	0.00
14) Fluorene-d10	13.262	176	691379	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	1199662	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.084	264	934833	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	5.871	94	535934	4.49	ppm	# 71
18) 4,6-dinitro-2-methylph...	13.507	198	91031	4.81	ppm	73
23) Pentachlorophenol	14.852	266	117089	5.29	ppm	82

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

7.6.12

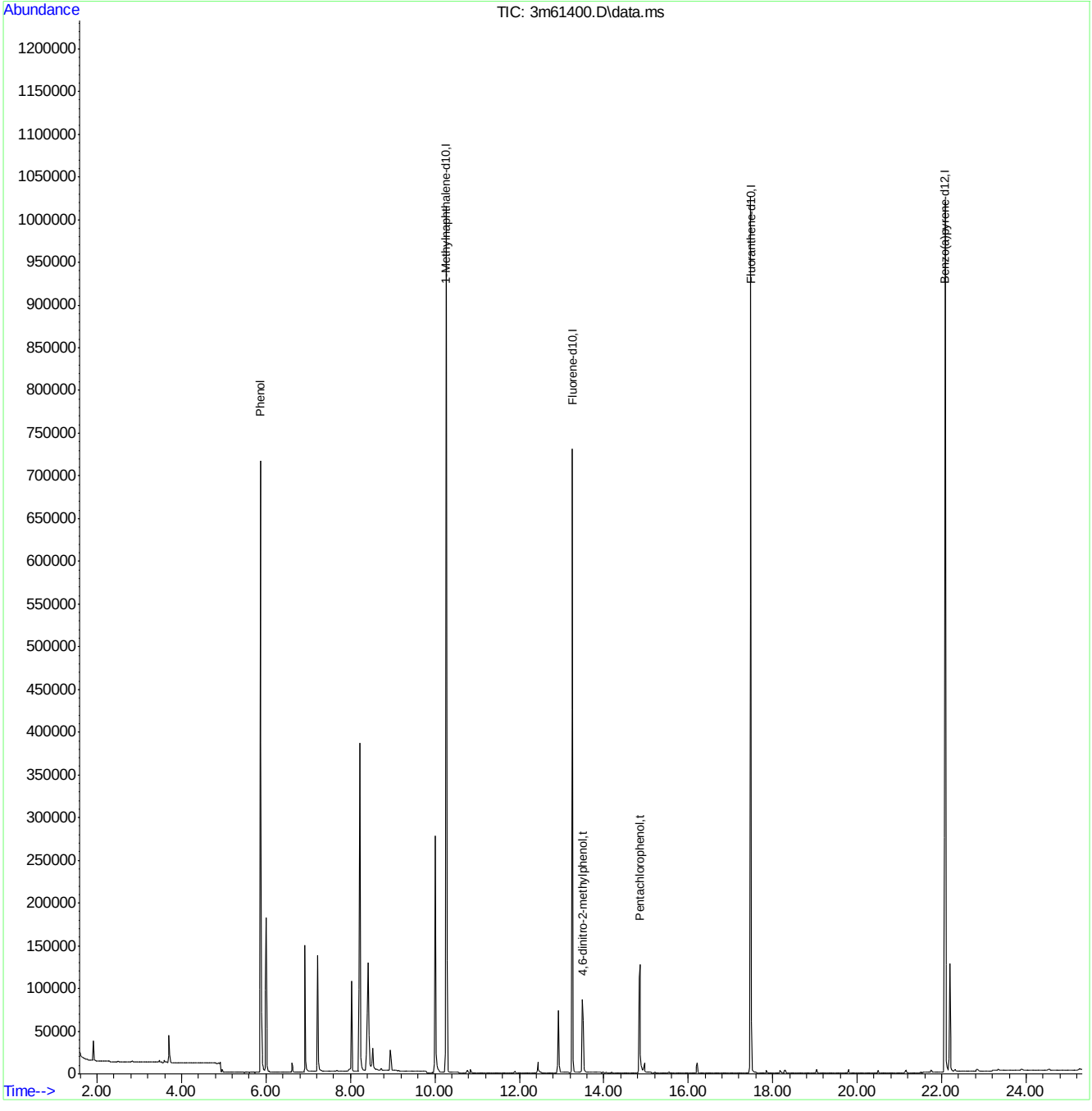
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2888\
Data File : 3m61400.D
Acq On : 18 May 2016 9:12 am
Operator : linseyk
Sample : icv2887-1
Misc : op99506a,e3m2888
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 18 09:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed May 18 08:07:34 2016
Response via : Initial Calibration



M3M2887SIM.M Wed May 18 09:44:09 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61850.D
Acq On : 1 Jun 2016 8:59 pm
Operator : juliusj
Sample : cc2887-1.0
Misc : op94110a,e3m2915
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 21:22:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.139	150	759563	4.00	ppm		-0.08
14) Fluorene-d10	13.149	176	1058031	4.00	ppm		-0.08
21) Fluoranthene-d10	17.371	212	1799667	4.00	ppm		0.02
31) Benzo(a)pyrene-d12	21.991	264	1378403	4.00	ppm		0.02
System Monitoring Compounds							
3) 2-Fluorophenol	4.167	112	2102827	21.65	ppm		-0.06
Spiked Amount 50.000			Recovery = 43.30%				
4) Phenol-d5	5.786	99	3217666	20.58	ppm		-0.06
Spiked Amount 50.000			Recovery = 41.16%				
7) Nitrobenzene-d5	7.268	82	2602024	19.71	ppm		-0.10
Spiked Amount 50.000			Recovery = 39.42%				
15) 2-Fluorobiphenyl	10.815	172	6390187	24.42	ppm		-0.09
Spiked Amount 50.000			Recovery = 48.84%				
20) 2,4,6-Tribromophenol	13.695	330	550726	21.43	ppm		-0.09
Spiked Amount 50.000			Recovery = 42.86%				
28) Terphenyl-d14	18.190	244	5414887	21.55	ppm		0.02
Spiked Amount 50.000			Recovery = 43.10%				
Target Compounds							Qvalue
2) 1,4-dioxane	1.958	88	39011	0.90	ppm		87
5) Phenol	5.811	94	873065	5.33	ppm		93
6) bis(2-Chloroethyl)ether	5.847	93	123993	1.06	ppm		72
8) Nitrobenzene	7.306	77	153091	1.12	ppm		85
9) Naphthalene	8.662	128	390169	0.91	ppm		91
10) Hexachlorobutadiene	8.944	225	60787	0.91	ppm	#	60
11) 2-Methylnaphthalene	10.036	141	210093	0.94	ppm		97
12) 1-Methylnaphthalene	10.221	141	226567	0.88	ppm		94
13) Hexachlorocyclopentadiene	10.364	237	39559	1.21	ppm	#	63
16) Acenaphthylene	11.789	152	404802	1.19	ppm		100
17) Acenaphthene	12.145	153	266539	1.19	ppm		99
18) 4,6-dinitro-2-methylph...	13.412	198	40150	2.06	ppm		84
19) Fluorene	13.186	166	311460	1.14	ppm		79
22) Hexachlorobenzene	14.280	284	76024	0.95	ppm		98
23) Pentachlorophenol	14.759	266	112107	3.60	ppm		85
24) Phenanthrene	15.099	178	442086	1.05	ppm		94
25) Anthracene	15.207	178	422593	1.11	ppm		89
26) Fluoranthene	17.402	202	497002	0.97	ppm		99
27) Pyrene	17.788	202	494685	1.08	ppm		100
29) Benzo[a]anthracene	19.905	228	464867	1.14	ppm		99
30) Chrysene	19.951	228	429994	1.03	ppm		99
32) Benzo[b]fluoranthene	21.574	252	440289	1.03	ppm		97
33) Benzo[k]fluoranthene	21.620	252	412026	1.10	ppm		98
34) Benzo[a]pyrene	22.022	252	420019	1.10	ppm		99
35) Indeno[1,2,3-cd]pyrene	23.468	276	473483	1.04	ppm		98
36) Dibenz[a,h]anthracene	23.506	278	407196	1.13	ppm		100
37) Benzo[g,h,i]perylene	23.807	276	413495	1.06	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61850.D
Acq On : 1 Jun 2016 8:59 pm
Operator : juliusj
Sample : cc2887-1.0
Misc : op94110a,e3m2915
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 21:22:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration

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

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

7.6.13

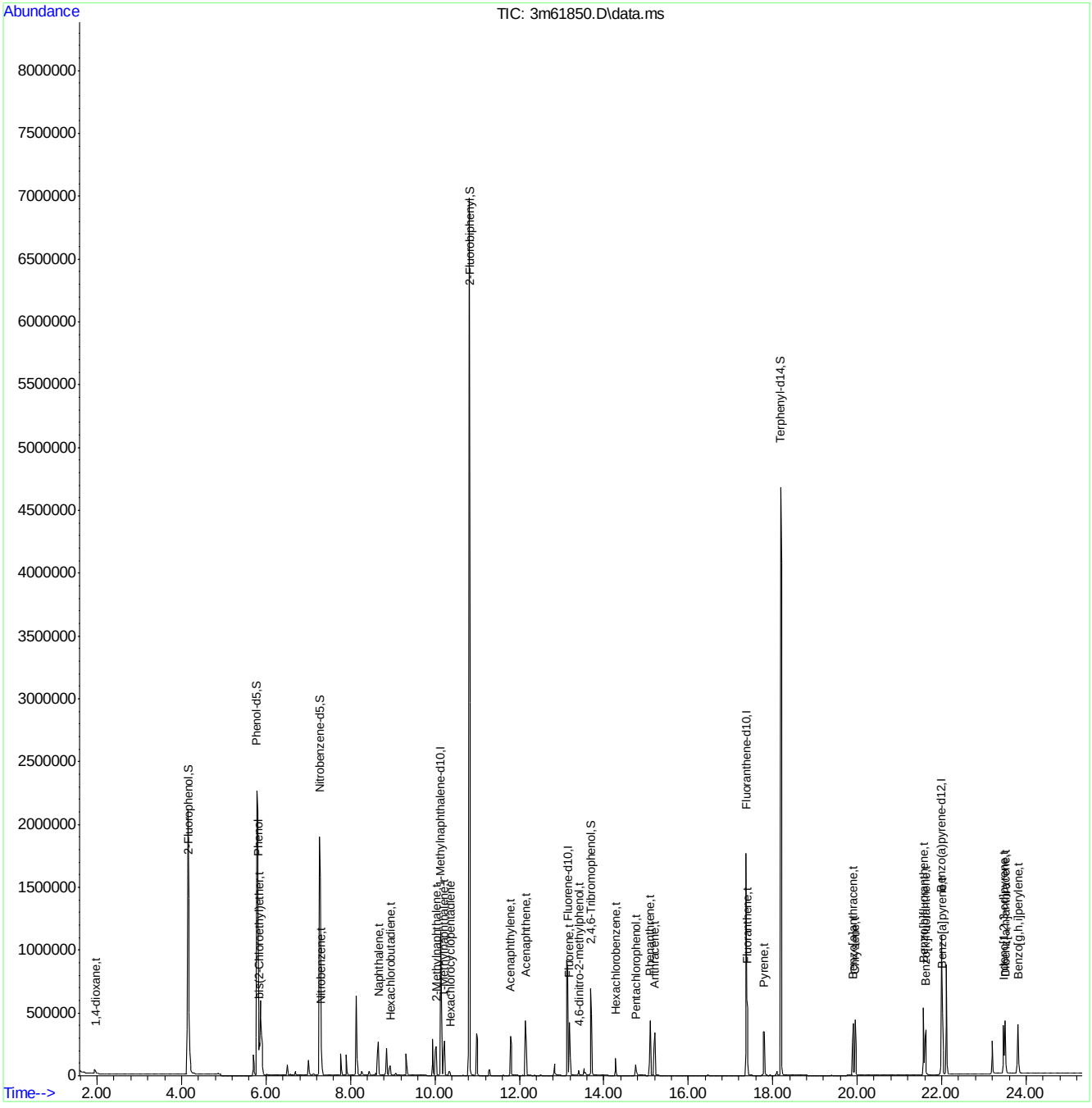
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2915\
Data File : 3m61850.D
Acq On : 1 Jun 2016 8:59 pm
Operator : juliusj
Sample : cc2887-1.0
Misc : op94110a,e3m2915
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 21:22:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue May 31 14:46:56 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62037.D
Acq On : 7 Jun 2016 10:52 pm
Operator : ashleyd
Sample : cc2887-0.5
Misc : op94271a,e3m2924
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 08:30:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.180	150	527078	4.00	ppm	0.06
14) Fluorene-d10	13.168	176	805057	4.00	ppm	0.06
21) Fluoranthene-d10	17.402	212	1282038	4.00	ppm	0.05
31) Benzo(a)pyrene-d12	22.037	264	1130232	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.198	112	787974	11.69	ppm	0.01
Spiked Amount 50.000			Recovery = 23.38%			
4) Phenol-d5	5.835	99	1235353	11.38	ppm	0.05
Spiked Amount 50.000			Recovery = 22.76%			
7) Nitrobenzene-d5	7.306	82	1012315	11.05	ppm	0.00
Spiked Amount 50.000			Recovery = 22.10%			
15) 2-Fluorobiphenyl	10.846	172	2408131	12.10	ppm	0.03
Spiked Amount 50.000			Recovery = 24.20%			
20) 2,4,6-Tribromophenol	13.733	330	224583	11.49	ppm	0.06
Spiked Amount 50.000			Recovery = 22.98%			
28) Terphenyl-d14	18.221	244	2218756	12.40	ppm	0.05
Spiked Amount 50.000			Recovery = 24.80%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	17755	0.59	ppm	66
5) Phenol	5.859	94	327543	2.88	ppm #	85
6) bis(2-Chloroethyl)ether	5.871	93	58081	0.71	ppm	80
8) Nitrobenzene	7.325	77	61799	0.65	ppm	98
9) Naphthalene	8.681	128	153526	0.52	ppm	94
10) Hexachlorobutadiene	8.963	225	23330	0.50	ppm #	61
11) 2-Methylnaphthalene	10.057	141	84747	0.54	ppm #	74
12) 1-Methylnaphthalene	10.241	141	92064	0.52	ppm	94
13) Hexachlorocyclopentadiene	10.385	237	1960	0.27	ppm #	68
16) Acenaphthylene	11.820	152	146634	0.57	ppm	96
17) Acenaphthene	12.176	153	102542	0.60	ppm	87
18) 4,6-dinitro-2-methylph...	13.450	198	39091	2.38	ppm	88
19) Fluorene	13.224	166	114923	0.55	ppm	98
22) Hexachlorobenzene	14.311	284	28732	0.51	ppm	94
23) Pentachlorophenol	14.790	266	38818	2.00	ppm	94
24) Phenanthrene	15.130	178	165654	0.55	ppm	95
25) Anthracene	15.238	178	162910	0.60	ppm	92
26) Fluoranthene	17.433	202	188429	0.52	ppm	100
27) Pyrene	17.835	202	188729	0.58	ppm	88
29) Benzo[a]anthracene	19.936	228	174613	0.60	ppm	94
30) Chrysene	19.998	228	182070	0.61	ppm	89
32) Benzo[b]fluoranthene	21.605	252	196073	0.56	ppm	95
33) Benzo[k]fluoranthene	21.651	252	162139	0.53	ppm	95
34) Benzo[a]pyrene	22.068	252	177694	0.57	ppm	90
35) Indeno[1,2,3-cd]pyrene	23.525	276	206569	0.56	ppm	91
36) Dibenz[a,h]anthracene	23.562	278	176722	0.60	ppm	80
37) Benzo[g,h,i]perylene	23.863	276	187016	0.59	ppm	98

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62037.D
Acq On : 7 Jun 2016 10:52 pm
Operator : ashleyd
Sample : cc2887-0.5
Misc : op94271a,e3m2924
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 08:30:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

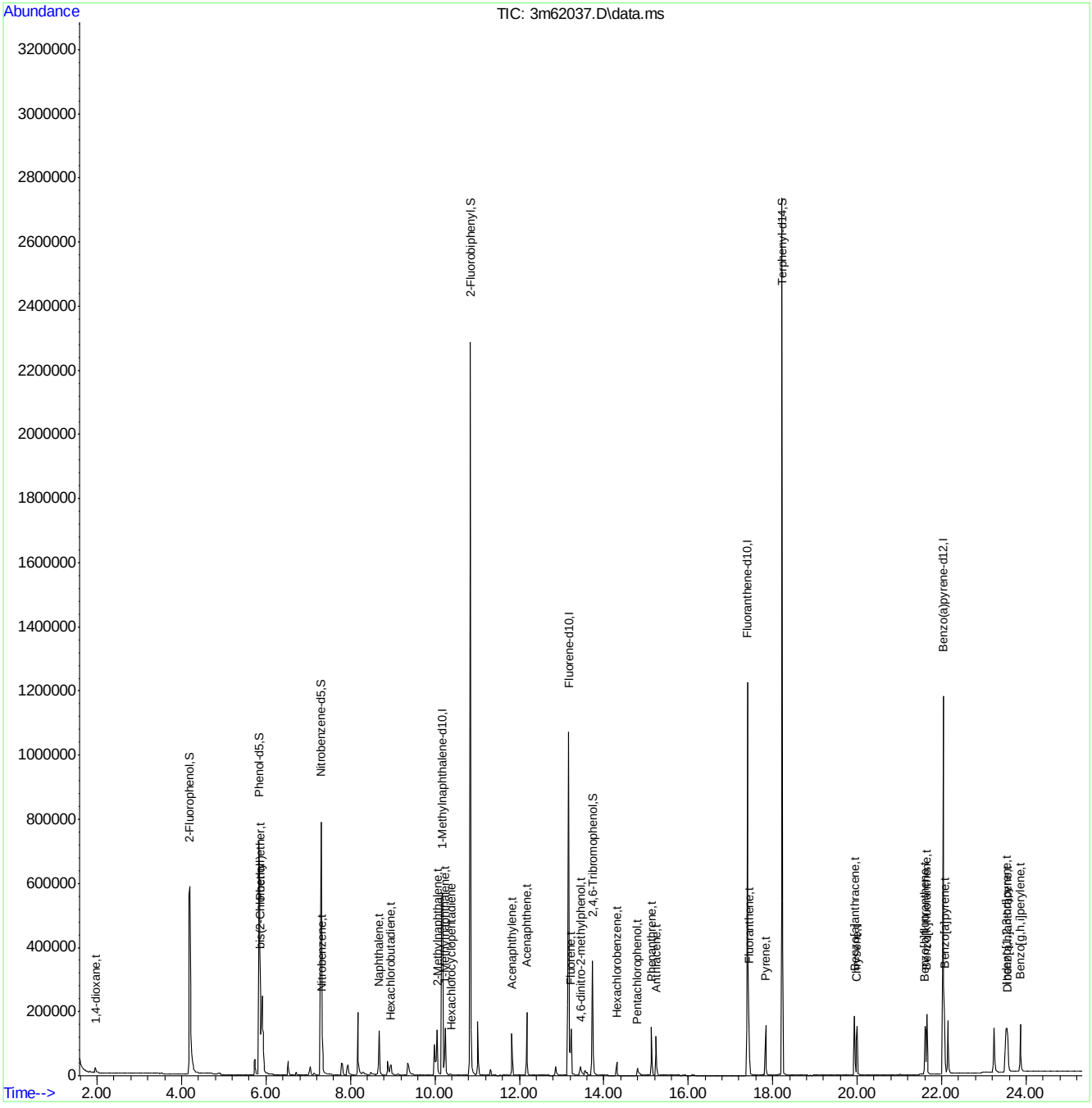
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2924\
Data File : 3m62037.D
Acq On : 7 Jun 2016 10:52 pm
Operator : ashleyd
Sample : cc2887-0.5
Misc : op94271a,e3m2924
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 08:30:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration



M3M2887SIM.M Wed Jun 08 13:42:04 2016 RPT1 Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/09/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2925\
Data File : 3m62077.D
Acq On : 8 Jun 2016 7:43 pm
Operator : linseyk
Sample : ecc2887-1
Misc : op94162a,e3m2925,30.6
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 10:36:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.180	150	536144	4.00	ppm		0.06
14) Fluorene-d10	13.186	176	690916	4.00	ppm		0.08
21) Fluoranthene-d10	17.433	212	1080939	4.00	ppm		0.08
31) Benzo(a)pyrene-d12	22.068	264	887449	4.00	ppm		0.09
System Monitoring Compounds							
3) 2-Fluorophenol	4.214	112	1331277	19.42	ppm		0.03
Spiked Amount 50.000			Recovery = 38.84%				
4) Phenol-d5	5.859	99	1976646	17.91	ppm		0.07
Spiked Amount 50.000			Recovery = 35.82%				
7) Nitrobenzene-d5	7.306	82	1721626	18.48	ppm		0.00
Spiked Amount 50.000			Recovery = 36.96%				
15) 2-Fluorobiphenyl	10.846	172	3608655	21.12	ppm		0.03
Spiked Amount 50.000			Recovery = 42.24%				
20) 2,4,6-Tribromophenol	13.752	330	353872	21.09	ppm		0.08
Spiked Amount 50.000			Recovery = 42.18%				
28) Terphenyl-d14	18.237	244	3299055	21.86	ppm		0.07
Spiked Amount 50.000			Recovery = 43.72%				
Target Compounds							Qvalue
2) 1,4-dioxane	1.958	88	27121	0.89	ppm		87
5) Phenol	5.883	94	542765	4.69	ppm	#	87
6) bis(2-Chloroethyl)ether	5.871	93	96151	1.16	ppm		93
8) Nitrobenzene	7.344	77	102629	1.07	ppm	#	58
9) Naphthalene	8.681	128	260287	0.86	ppm		99
10) Hexachlorobutadiene	8.963	225	39240	0.83	ppm		63
11) 2-Methylnaphthalene	10.057	141	156509	0.99	ppm	#	63
12) 1-Methylnaphthalene	10.241	141	163765	0.90	ppm	#	72
13) Hexachlorocyclopentadiene	10.241	237	391m	0.21	ppm		
16) Acenaphthylene	11.836	152	260552	1.18	ppm		93
17) Acenaphthene	12.191	153	162773	1.11	ppm		78
18) 4,6-dinitro-2-methylph...	13.488	198	5416	1.18	ppm		85
19) Fluorene	13.224	166	183604	1.03	ppm	#	70
22) Hexachlorobenzene	14.326	284	44775	0.94	ppm		86
23) Pentachlorophenol	14.821	266	50624	2.84	ppm		99
24) Phenanthrene	15.146	178	264030	1.05	ppm		91
25) Anthracene	15.254	178	268098	1.17	ppm		94
26) Fluoranthene	17.464	202	293949	0.96	ppm		93
27) Pyrene	17.850	202	309557	1.12	ppm		95
29) Benzo[a]anthracene	19.967	228	279100	1.14	ppm		99
30) Chrysene	20.013	228	285293	1.13	ppm		99
32) Benzo[b]fluoranthene	21.636	252	313363	1.14	ppm		96
33) Benzo[k]fluoranthene	21.682	252	235946	0.98	ppm		98
34) Benzo[a]pyrene	22.099	252	265113	1.07	ppm		93
35) Indeno[1,2,3-cd]pyrene	23.562	276	315943	1.08	ppm		91
36) Dibenz[a,h]anthracene	23.581	278	251896	1.09	ppm		94
37) Benzo[g,h,i]perylene	23.901	276	273233	1.09	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2925\
Data File : 3m62077.D
Acq On : 8 Jun 2016 7:43 pm
Operator : linseyk
Sample : ecc2887-1
Misc : op94162a,e3m2925,30.6
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 10:36:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration

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

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

7.6.15

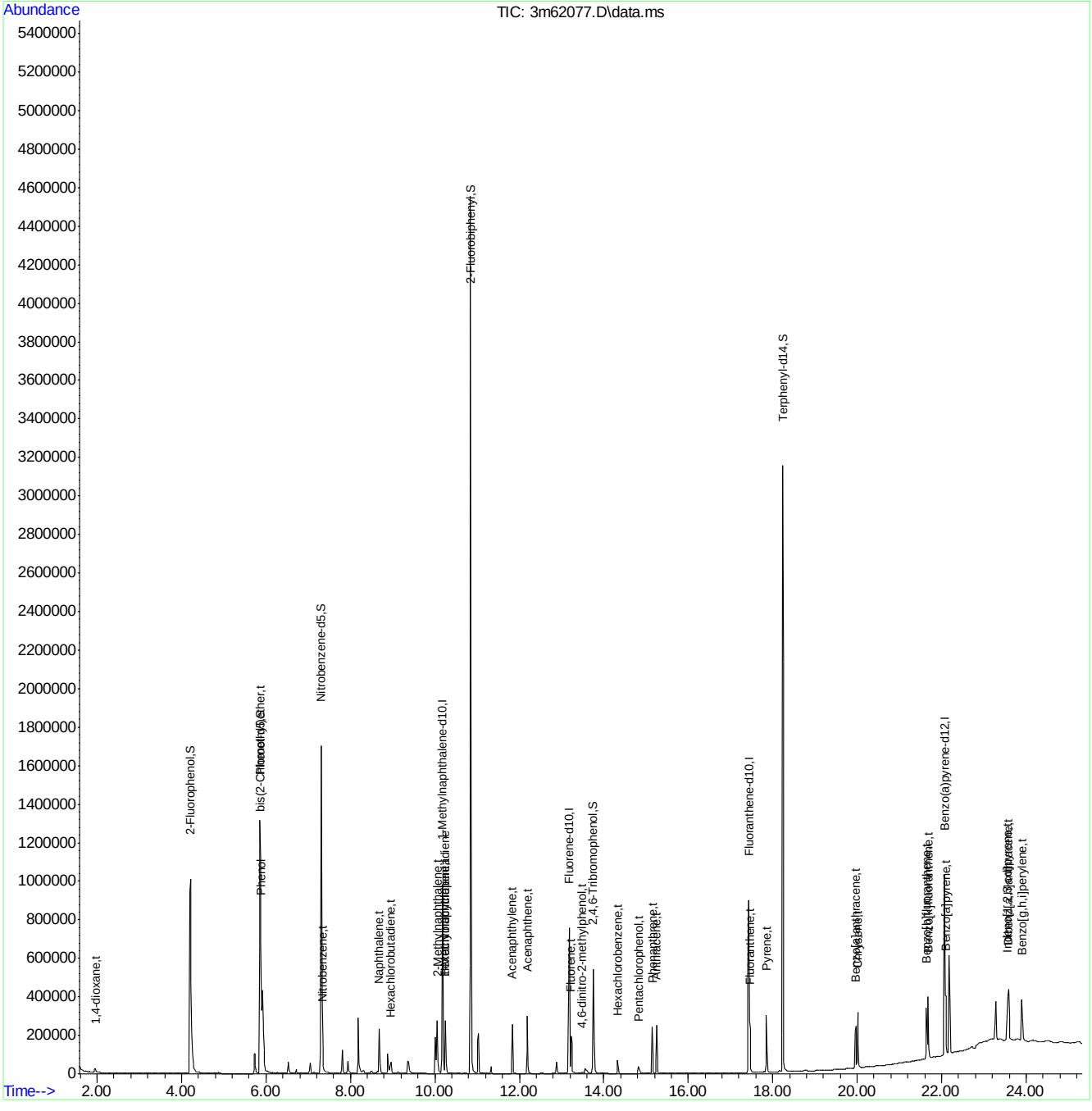
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2925\
Data File : 3m62077.D
Acq On : 8 Jun 2016 7:43 pm
Operator : linseyk
Sample : ecc2887-1
Misc : op94162a,e3m2925,30.6
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 09 10:36:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

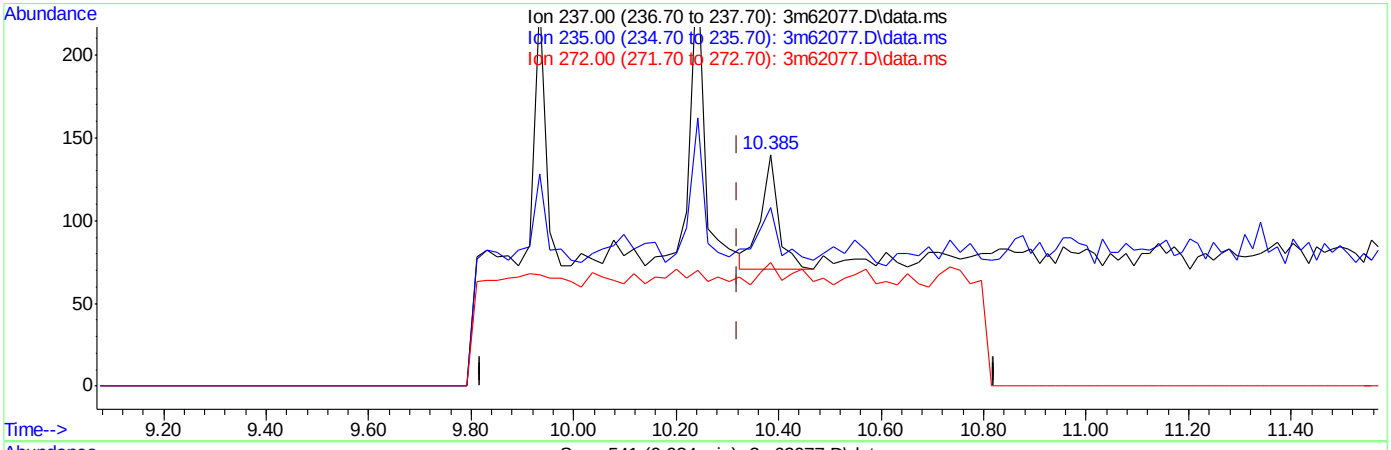
Sample Number:	E3M2925-ECC2887	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M62077.D	**Analyst approved:**	06/09/16 10:39 Linsey Kirschmann
Injection Time:	06/08/16 19:43	**Supervisor approved:**	06/09/16 12:38 Nina Pandya

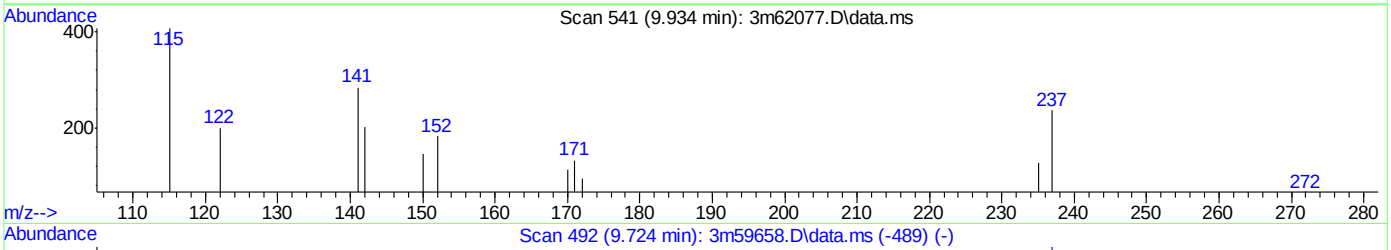
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorocyclopentadiene	77-47-4		10.24	Poor instrument integration

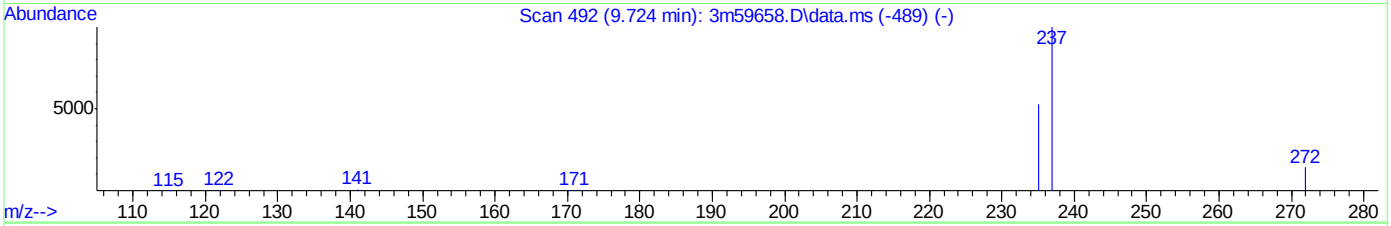
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2925\
Data File : 3m62077.D
Acq On : 8 Jun 2016 7:43 pm
Operator : linseyk
Sample : ecc2887-1
Misc : op94162a,e3m2925,30.6
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 08 20:07:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration







TIC: 3m62077.D\data.ms

(13) Hexachlorocyclopentadiene

10.385min (+0.065) 0.20ppm

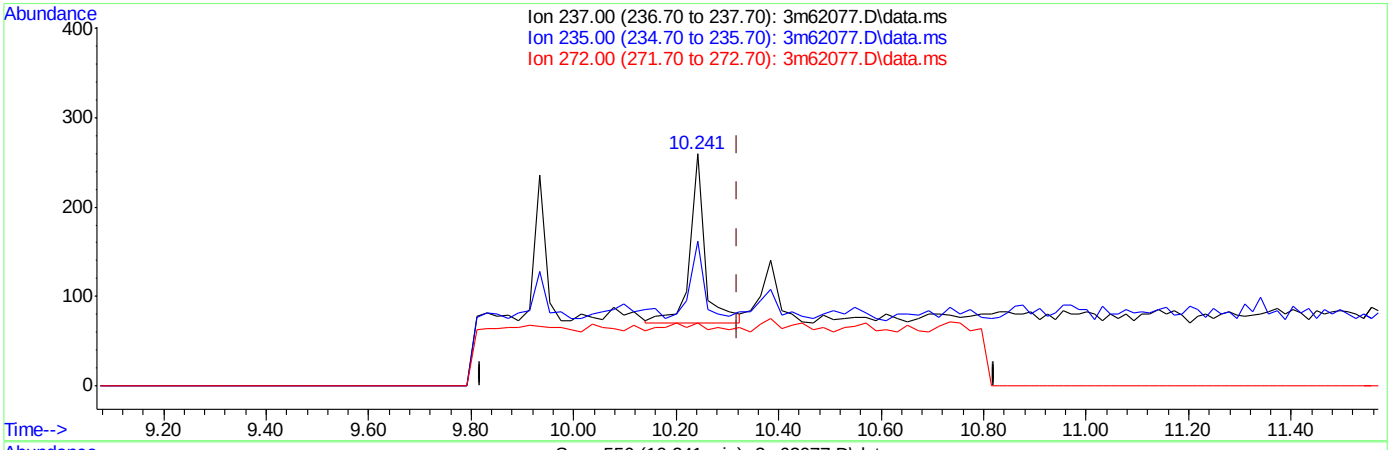
response 165

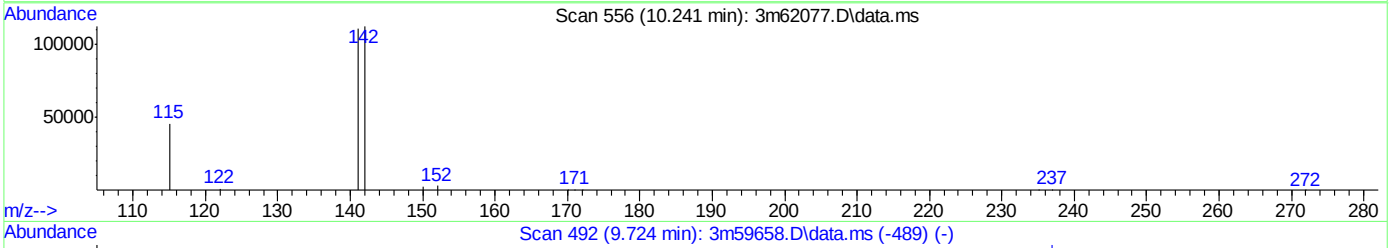
Ion	Exp%	Act%
237.00	100	100
235.00	80.30	44.19#
272.00	8.90	16.28
0.00	0.00	0.00

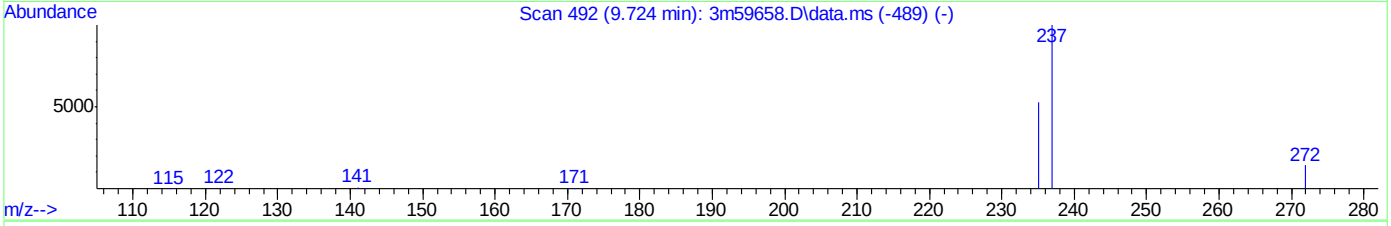
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2925\
Data File : 3m62077.D
Acq On : 8 Jun 2016 7:43 pm
Operator : linseyk
Sample : ecc2887-1
Misc : op94162a,e3m2925,30.6
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 08 20:07:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 07 11:28:37 2016
Response via : Initial Calibration







TIC: 3m62077.D\data.ms

(13) Hexachlorocyclopentadiene

10.241min (-0.079) 0.21ppm m

response 391

Ion	Exp%	Act%
237.00	100	100
235.00	80.30	62.55
272.00	8.90	27.03
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62147.D
Acq On : 10 Jun 2016 8:54 pm
Operator : juliusj
Sample : cc2887-0.5
Misc : op94389a,e3m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 21:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.159	150	871013	4.00	ppm	0.04
14) Fluorene-d10	13.168	176	1068108	4.00	ppm	0.06
21) Fluoranthene-d10	17.402	212	1746157	4.00	ppm	0.05
31) Benzo(a)pyrene-d12	22.037	264	1477786	4.00	ppm	0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.214	112	1123642	10.09	ppm	0.03
Spiked Amount 50.000			Recovery = 20.18%			
4) Phenol-d5	5.859	99	1608907	8.97	ppm	0.07
Spiked Amount 50.000			Recovery = 17.94%			
7) Nitrobenzene-d5	7.287	82	1570207	10.37	ppm	0.00
Spiked Amount 50.000			Recovery = 20.74%			
15) 2-Fluorobiphenyl	10.831	172	3359071	12.72	ppm	0.02
Spiked Amount 50.000			Recovery = 25.44%			
20) 2,4,6-Tribromophenol	13.733	330	274017	10.56	ppm	0.06
Spiked Amount 50.000			Recovery = 21.12%			
28) Terphenyl-d14	18.221	244	2893139	11.87	ppm	0.05
Spiked Amount 50.000			Recovery = 23.74%			
Target Compounds						Qvalue
2) 1,4-dioxane	1.958	88	26402	0.53	ppm #	10
5) Phenol	5.883	94	425129	2.26	ppm #	81
6) bis(2-Chloroethyl)ether	5.859	93	78609	0.58	ppm #	46
8) Nitrobenzene	7.325	77	89032	0.57	ppm	69
9) Naphthalene	8.662	128	224773	0.46	ppm	100
10) Hexachlorobutadiene	8.944	225	36895	0.48	ppm	79
11) 2-Methylnaphthalene	10.036	141	138457	0.54	ppm	89
12) 1-Methylnaphthalene	10.221	141	133648	0.45	ppm #	67
13) Hexachlorocyclopentadiene	10.364	237	31835	0.92	ppm	87
16) Acenaphthylene	11.820	152	193903	0.57	ppm	90
17) Acenaphthene	12.176	153	139003	0.61	ppm	72
18) 4,6-dinitro-2-methylph...	13.450	198	57770	2.54	ppm	87
19) Fluorene	13.205	166	160460	0.58	ppm	75
22) Hexachlorobenzene	14.295	284	37407	0.48	ppm	82
23) Pentachlorophenol	14.790	266	45147	1.78	ppm	100
24) Phenanthrene	15.130	178	227971	0.56	ppm	96
25) Anthracene	15.223	178	210930	0.57	ppm	100
26) Fluoranthene	17.433	202	254548	0.51	ppm	99
27) Pyrene	17.835	202	259091	0.58	ppm	87
29) Benzo[a]anthracene	19.936	228	244211	0.62	ppm	93
30) Chrysene	19.998	228	240125	0.59	ppm	90
32) Benzo[b]fluoranthene	21.620	252	252605	0.55	ppm	92
33) Benzo[k]fluoranthene	21.651	252	222175	0.55	ppm	90
34) Benzo[a]pyrene	22.068	252	230776	0.56	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.525	276	279272	0.57	ppm	94
36) Dibenz[a,h]anthracene	23.562	278	225449	0.59	ppm	90
37) Benzo[g,h,i]perylene	23.863	276	238301	0.57	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62147.D
Acq On : 10 Jun 2016 8:54 pm
Operator : juliusj
Sample : cc2887-0.5
Misc : op94389a,e3m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 21:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration

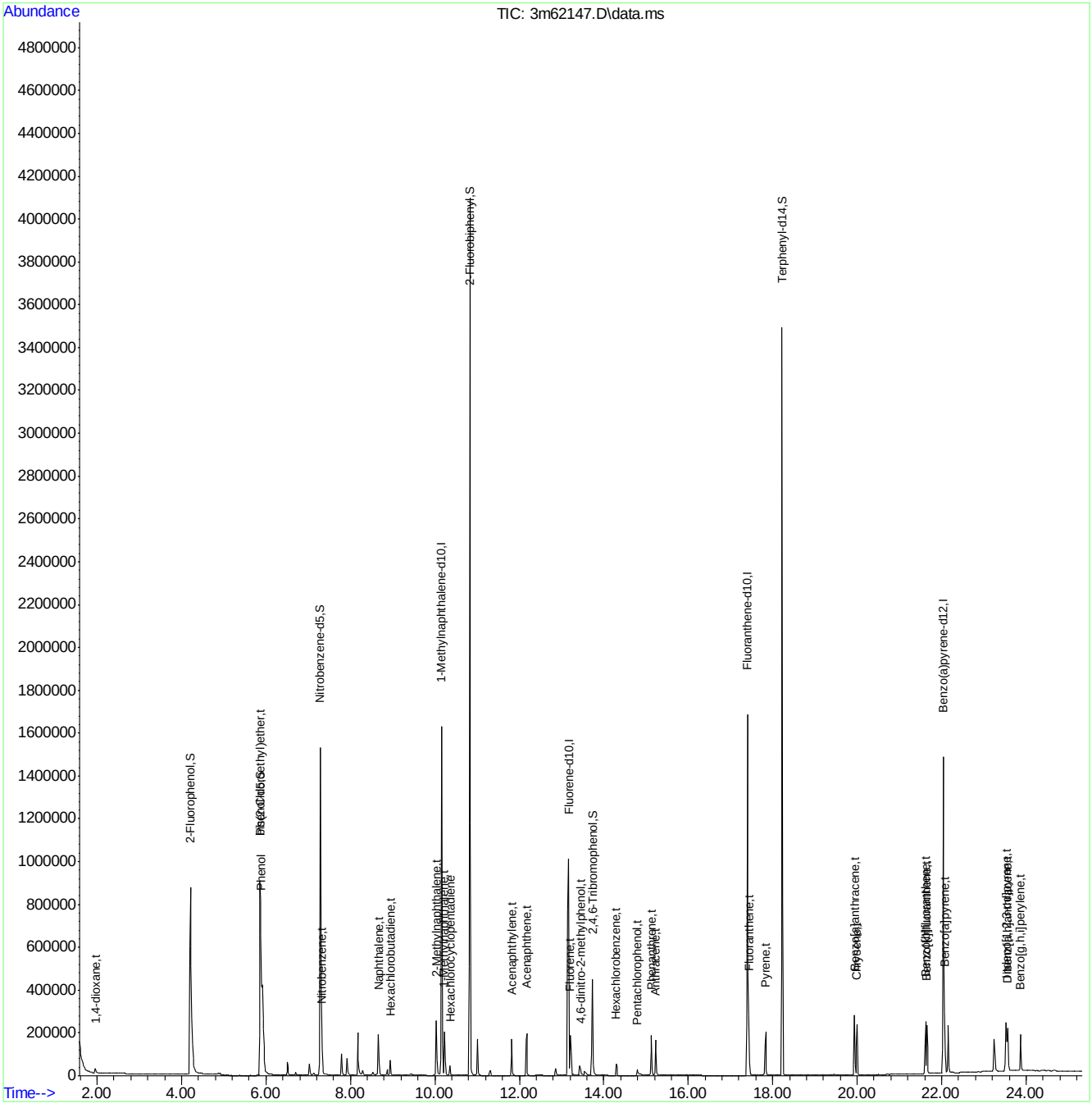
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2930\
Data File : 3m62147.D
Acq On : 10 Jun 2016 8:54 pm
Operator : juliusj
Sample : cc2887-0.5
Misc : op94389a,e3m2930
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 10 21:18:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jun 09 10:49:16 2016
Response via : Initial Calibration



M3M2887SIM.M Mon Jun 13 10:29:18 2016 RPT1 Page: 3

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:58:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.761	150	153971	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	270211	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	351043	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	250702	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	223858	10.14	ppm	0.00
Spiked Amount 50.000			Recovery = 20.28%			
4) Phenol-d5	3.750	99	431626	11.02	ppm	0.00
Spiked Amount 50.000			Recovery = 22.04%			
7) Nitrobenzene-d5	5.081	82	280913	9.82	ppm	0.00
Spiked Amount 50.000			Recovery = 19.64%			
14) 2-Fluorobiphenyl	8.425	172	741019	14.76	ppm	0.00
Spiked Amount 50.000			Recovery = 29.52%			
22) 2,4,6-Tribromophenol	11.236	330	84025	12.73	ppm	0.00
Spiked Amount 50.000			Recovery = 25.46%			
30) Terphenyl-d14	15.764	244	505399	10.03	ppm	0.00
Spiked Amount 50.000			Recovery = 20.06%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	7232	0.61	ppm #	47
5) Phenol	3.768	94	110286	2.55	ppm #	90
6) bis(2-Chloroethyl)ether	3.854	93	17240	0.56	ppm #	73
8) Naphthalene	6.343	128	56010	0.54	ppm	97
9) Hexachlorobutadiene	6.648	225	9132	0.51	ppm	93
10) 2-Methylnaphthalene	7.646	141	27259	0.57	ppm	92
11) 1-Methylnaphthalene	7.829	141	35343	0.57	ppm	91
12) Hexachlorocyclopentadiene	8.013	237	12502	0.86	ppm	95
15) Acenaphthylene	9.365	152	56972	0.68	ppm	96
16) Acenaphthene	9.731	153	31936	0.54	ppm	92
17) Dibenzofuran	10.075	168	50345	0.66	ppm	83
18) Fluorene	10.758	166	37057	0.53	ppm	93
19) 4,6-dinitro-2-methylph...	10.957	198	10213	2.18	ppm	97
20) n-nitrosodiphenylamine	11.081	169	23017	0.70	ppm	89
21) 1,2-Diphenylhydrazine	11.131	77	36374	0.58	ppm	90
24) Hexachlorobenzene	11.840	284	10945	0.52	ppm #	68
25) Pentachlorophenol	12.287	266	19260	2.27	ppm	96
26) Phenanthrene	12.631	178	54274	0.50	ppm	98
27) Anthracene	12.717	178	50089	0.51	ppm	87
28) Fluoranthene	14.938	202	57572	0.52	ppm	98
29) Pyrene	15.333	202	57518	0.51	ppm	98
31) Benzo[a]anthracene	17.452	228	42623	0.51	ppm	91
32) Chrysene	17.510	228	48895	0.51	ppm	96
34) Benzo[b]fluoranthene	19.112	252	50063	0.54	ppm	97
35) Benzo[k]fluoranthene	19.147	252	41380	0.50	ppm	91
36) Benzo[a]pyrene	19.561	252	43937	0.54	ppm	97
37) Indeno[1,2,3-cd]pyrene	20.977	276	50056m	0.52	ppm	
38) Dibenz[a,h]anthracene	21.015	278	40869	0.53	ppm	98
39) Benzo[g,h,i]perylene	21.265	276	44005	0.53	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:58:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

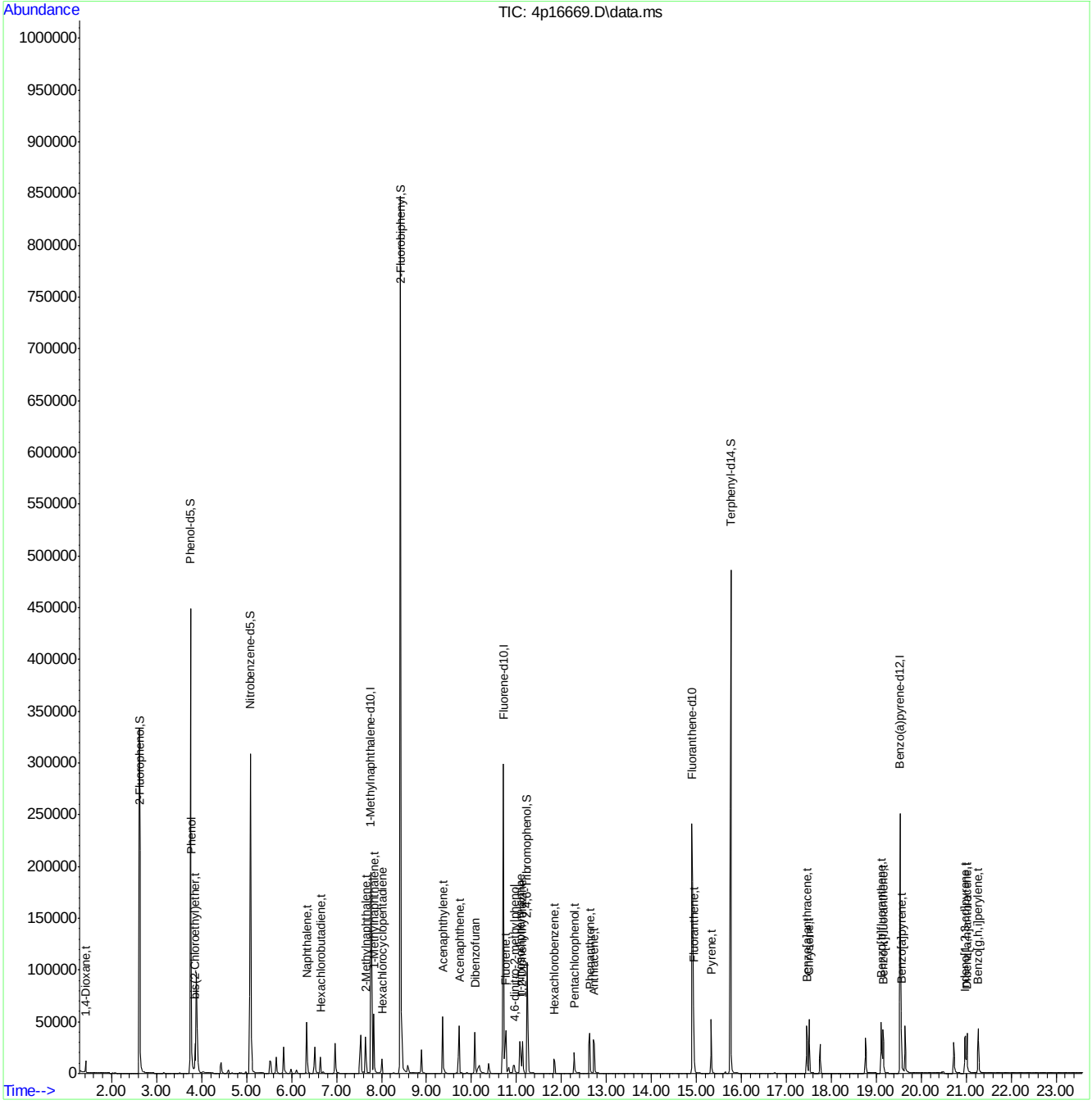
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:58:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 14:59:02 2016 Page: 3

SGS ACCUTEST JC21229

Manual Integration Approval Summary

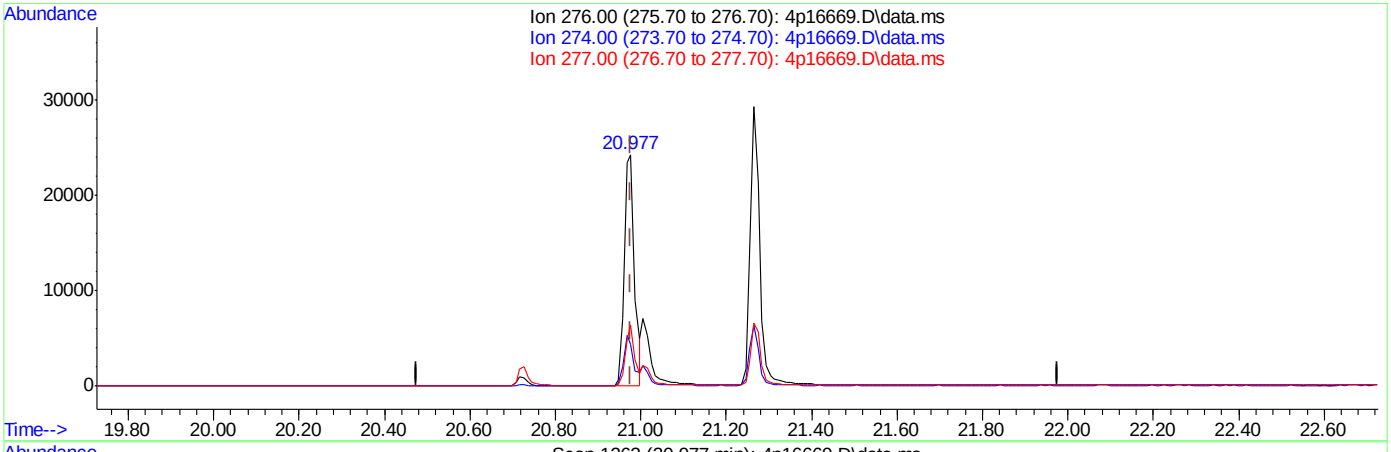
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16669.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 10:09	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

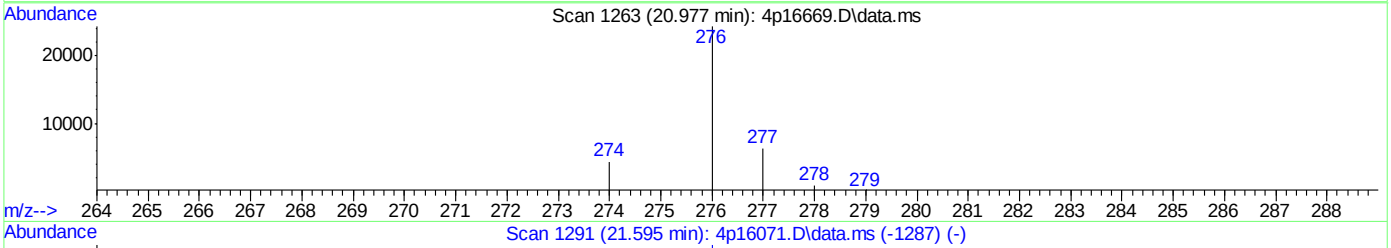
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.98	Split peak

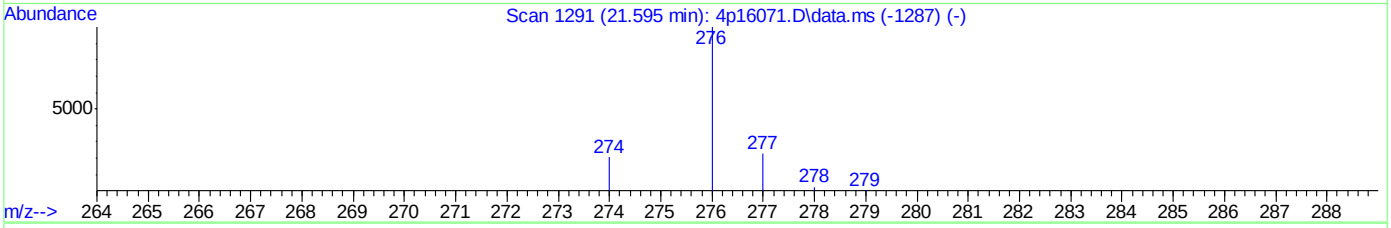
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:53:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16669.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (+0.000) 0.41ppm

response 39745

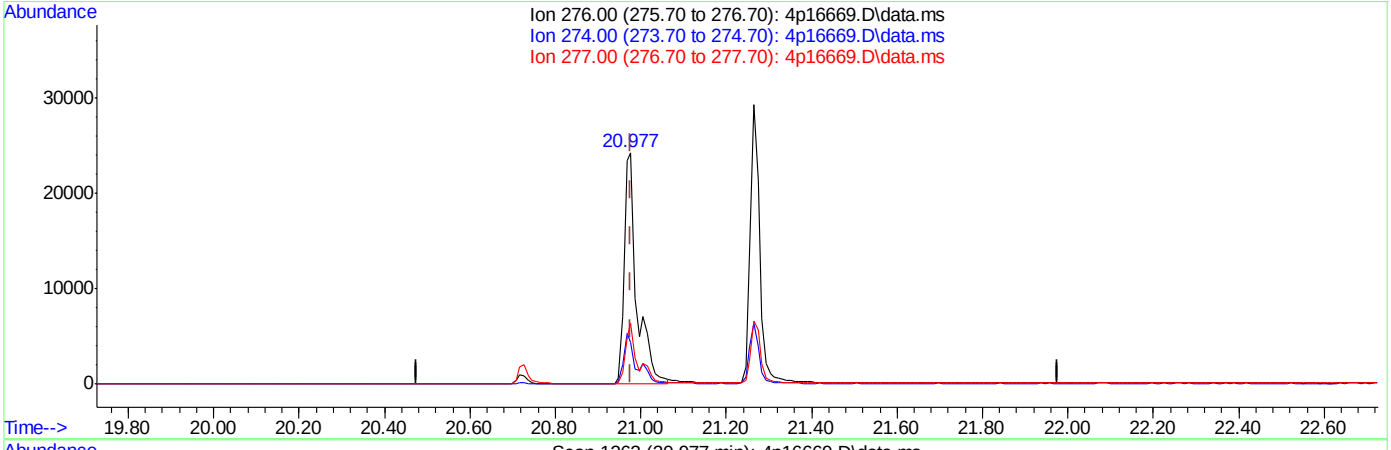
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	16.52
277.00	25.70	26.01
0.00	0.00	0.00

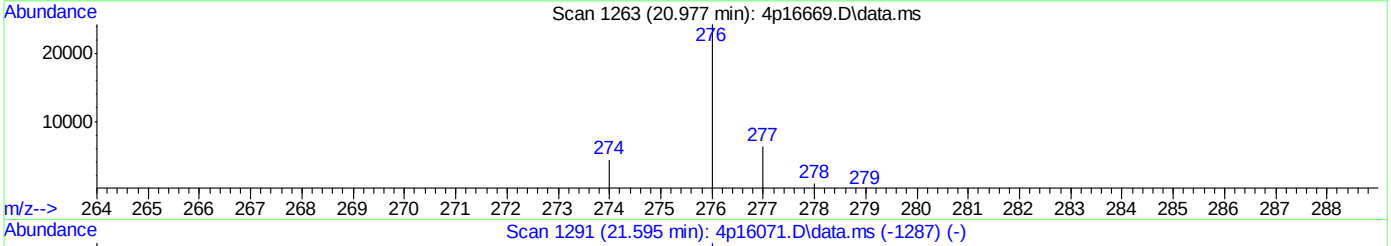
SGS ACCUTEST JC21229

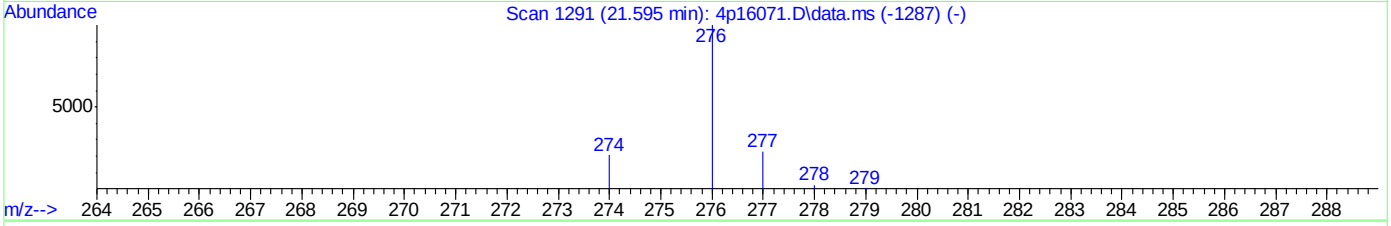
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:53:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16669.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (+0.000) 0.52ppm m

response 50056

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.88
277.00	25.70	26.32
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:59:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.783	150	136500	4.00	ppm	0.00
13) Fluorene-d10	10.709	176	284719	4.00	ppm	0.00
23) Fluoranthene-d10	14.920	212	320892	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.526	264	229091	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	391348	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	3.750	99	694640	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	5.081	82	507125	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
14) 2-Fluorobiphenyl	8.425	172	1057858	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
22) 2,4,6-Tribromophenol	11.236	330	139073	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
30) Terphenyl-d14	15.764	244	921642	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.421	88	10560	1.00	ppm	100
5) Phenol	3.767	94	191913	5.00	ppm	100
6) bis(2-Chloroethyl)ether	3.853	93	27239	1.00	ppm	100
8) Naphthalene	6.343	128	91410	1.00	ppm	100
9) Hexachlorobutadiene	6.648	225	15791	1.00	ppm	100
10) 2-Methylnaphthalene	7.646	141	42437	1.00	ppm	100
11) 1-Methylnaphthalene	7.829	141	54825	1.00	ppm	100
12) Hexachlorocyclopentadiene	8.013	237	25756	2.00	ppm	100
15) Acenaphthylene	9.365	152	88156	1.00	ppm	100
16) Acenaphthene	9.731	153	62653	1.00	ppm	100
17) Dibenzofuran	10.075	168	80165	1.00	ppm	100
18) Fluorene	10.758	166	74135	1.00	ppm	100
19) 4,6-dinitro-2-methylph...	10.957	198	24665	5.00	ppm	100
20) n-nitrosodiphenylamine	11.081	169	34488	1.00	ppm	100
21) 1,2-Diphenylhydrazine	11.131	77	65796	1.00	ppm	100
24) Hexachlorobenzene	11.857	284	19156	1.00	ppm	100
25) Pentachlorophenol	12.287	266	38855	5.00	ppm	100
26) Phenanthrene	12.631	178	98291	1.00	ppm	100
27) Anthracene	12.735	178	90621	1.00	ppm	100
28) Fluoranthene	14.938	202	101901	1.00	ppm	100
29) Pyrene	15.333	202	102940	1.00	ppm	100
31) Benzo[a]anthracene	17.462	228	76163	1.00	ppm	100
32) Chrysene	17.510	228	87069	1.00	ppm	100
34) Benzo[b]fluoranthene	19.112	252	84877	1.00	ppm	100
35) Benzo[k]fluoranthene	19.158	252	75867	1.01	ppm	100
36) Benzo[a]pyrene	19.561	252	72834	0.98	ppm	100
37) Indeno[1,2,3-cd]pyrene	20.977	276	86544m	0.99	ppm	
38) Dibenz[a,h]anthracene	21.015	278	70718	1.00	ppm	100
39) Benzo[g,h,i]perylene	21.265	276	76199	1.00	ppm	100

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:59:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

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

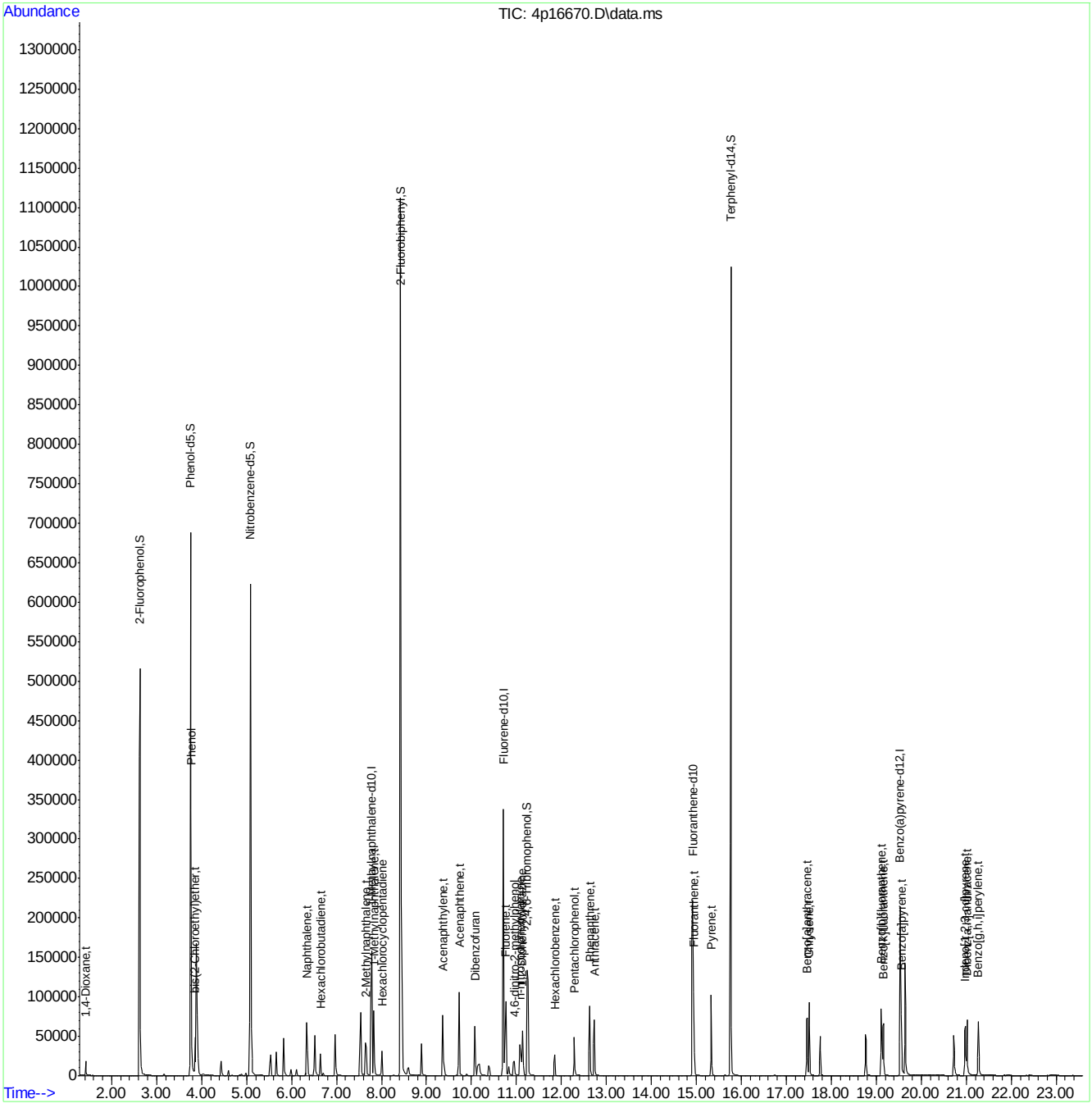
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:59:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

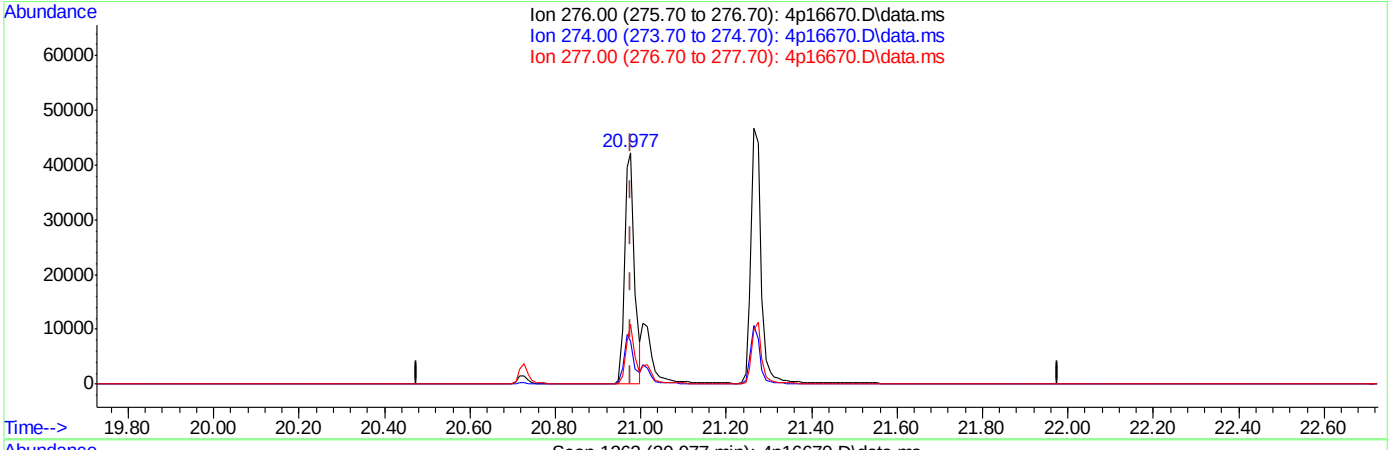
Sample Number:	E4P887-ICC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16670.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 10:50	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

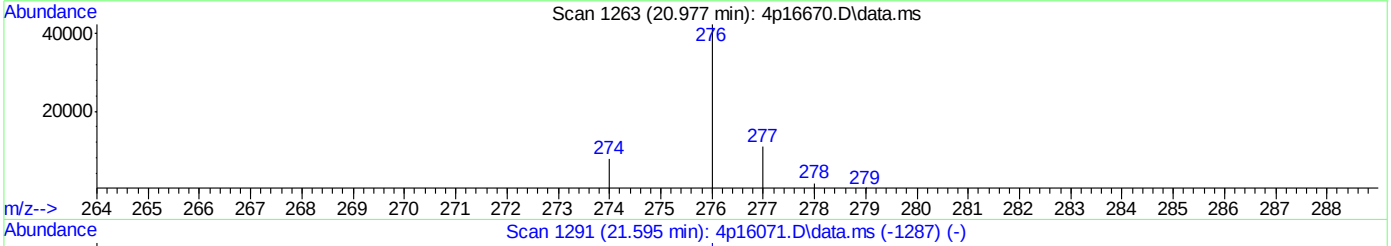
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.98	Split peak

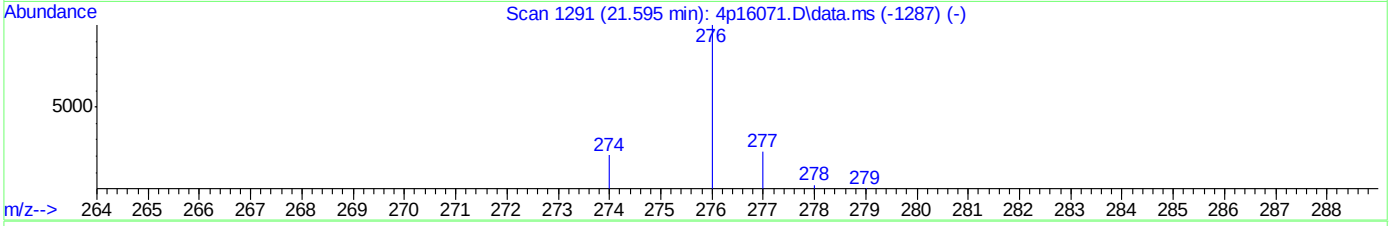
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:54:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16670.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (0.000) 0.77ppm

response 67074

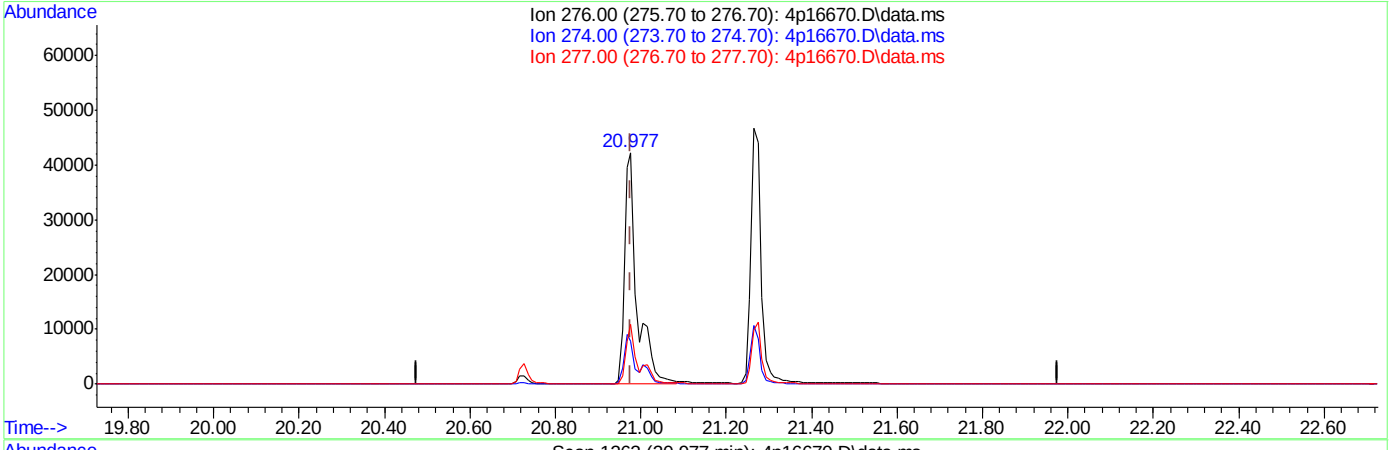
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.43
277.00	25.70	25.44
0.00	0.00	0.00

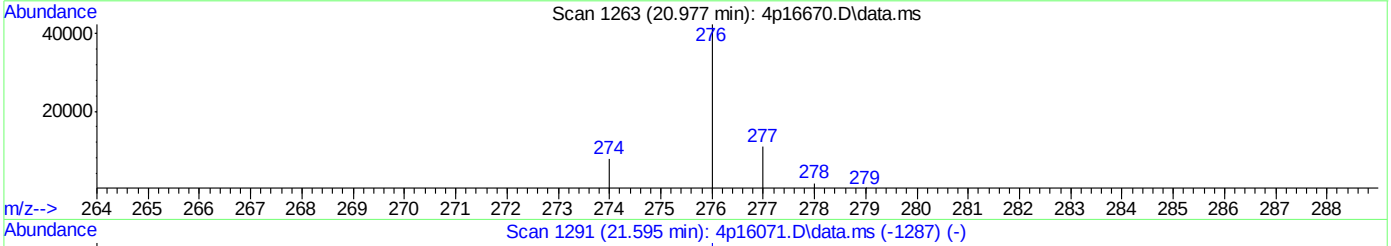
SGS ACCUTEST JC21229

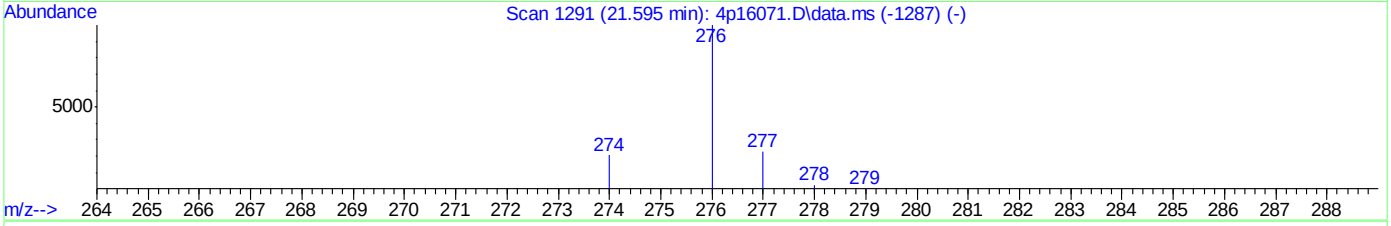
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:54:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16670.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (0.000) 0.99ppm m

response 86544

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.34
277.00	25.70	25.74
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:00:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.762	150	141449	4.00	ppm	-0.02
13) Fluorene-d10	10.711	176	234168	4.00	ppm	0.00
23) Fluoranthene-d10	14.918	212	342226	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.524	264	247365	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	88312	4.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.72%	
4) Phenol-d5	3.750	99	156719	4.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.70%	
7) Nitrobenzene-d5	5.083	82	97994	3.73	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.46%	
14) 2-Fluorobiphenyl	8.427	172	305481	7.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	14.04%	
22) 2,4,6-Tribromophenol	11.234	330	26953	4.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.42%	
30) Terphenyl-d14	15.762	244	197256	4.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.02%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	2120	0.19	ppm	83
5) Phenol	3.768	94	40539	1.02	ppm	96
6) bis(2-Chloroethyl)ether	3.854	93	5442	0.19	ppm	92
8) Naphthalene	6.344	128	20563	0.22	ppm	96
9) Hexachlorobutadiene	6.650	225	3170	0.19	ppm	90
10) 2-Methylnaphthalene	7.648	141	10993	0.25	ppm	86
11) 1-Methylnaphthalene	7.831	141	13795	0.24	ppm	85
12) Hexachlorocyclopentadiene	8.015	237	2868	0.21	ppm	95
15) Acenaphthylene	9.367	152	20610	0.28	ppm	95
16) Acenaphthene	9.733	153	10559	0.20	ppm	89
17) Dibenzofuran	10.077	168	22538	0.34	ppm	89
18) Fluorene	10.760	166	12692	0.21	ppm	92
19) 4,6-dinitro-2-methylph...	10.959	198	2416	0.60	ppm	82
20) n-nitrosodiphenylamine	11.083	169	7579	0.27	ppm	90
21) 1,2-Diphenylhydrazine	11.129	77	11638	0.22	ppm	97
24) Hexachlorobenzene	11.855	284	4162	0.20	ppm	98
25) Pentachlorophenol	12.285	266	5371	0.65	ppm	100
26) Phenanthrene	12.629	178	19392	0.18	ppm	100
27) Anthracene	12.733	178	16834	0.17	ppm	99
28) Fluoranthene	14.936	202	21513	0.20	ppm	99
29) Pyrene	15.331	202	20291	0.18	ppm	99
31) Benzo[a]anthracene	17.450	228	13633	0.17	ppm	89
32) Chrysene	17.508	228	17473	0.19	ppm	98
34) Benzo[b]fluoranthene	19.110	252	16740	0.18	ppm	99
35) Benzo[k]fluoranthene	19.145	252	15342	0.19	ppm	86
36) Benzo[a]pyrene	19.559	252	16315	0.20	ppm	99
37) Indeno[1,2,3-cd]pyrene	20.975	276	18033m	0.19	ppm	
38) Dibenz[a,h]anthracene	21.013	278	14607	0.19	ppm	99
39) Benzo[g,h,i]perylene	21.263	276	16723	0.20	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:00:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

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

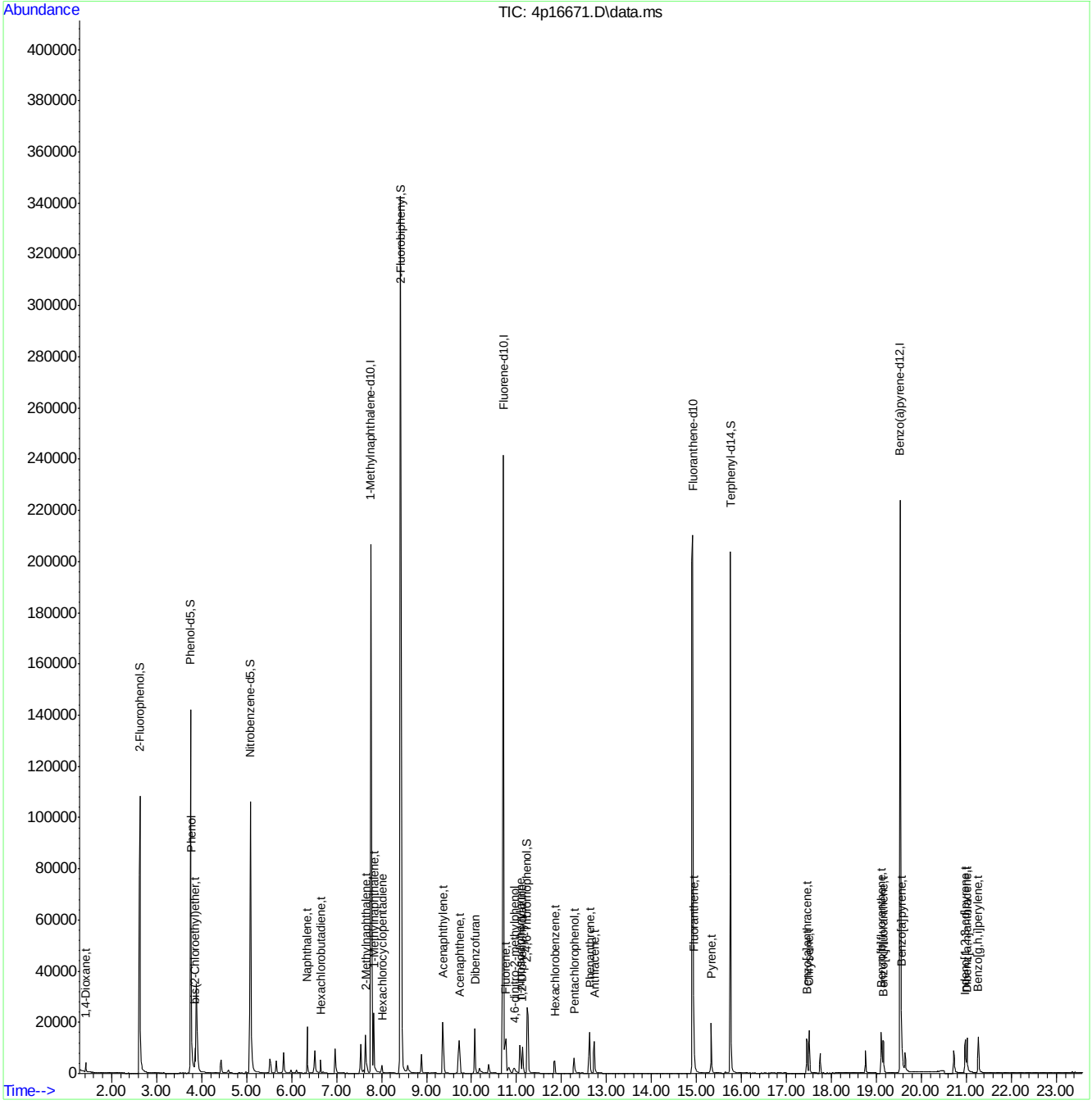
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:00:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

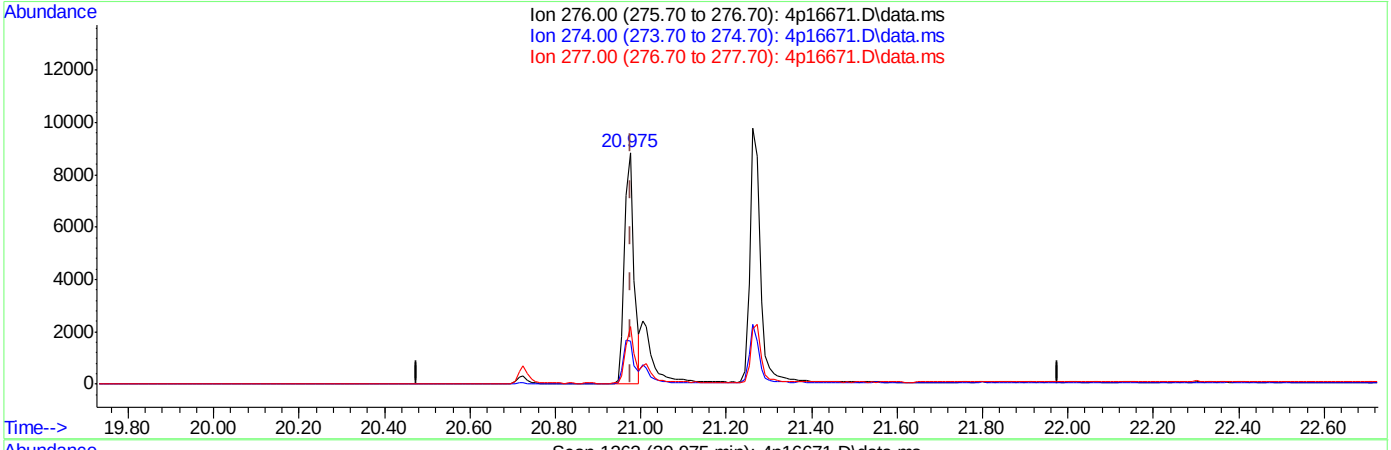
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16671.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 11:20	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

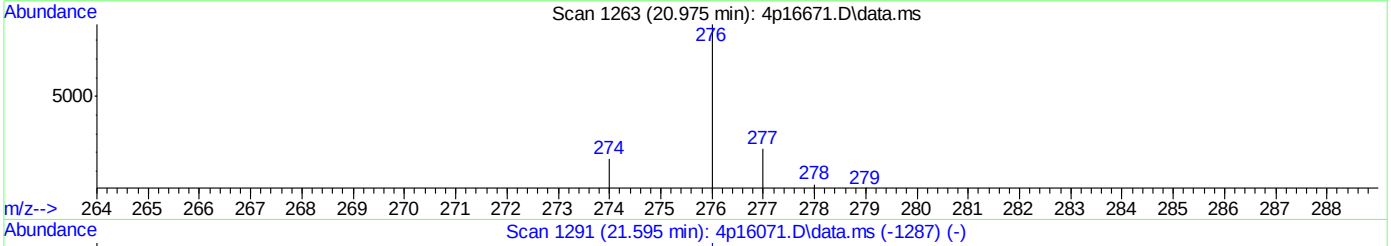
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

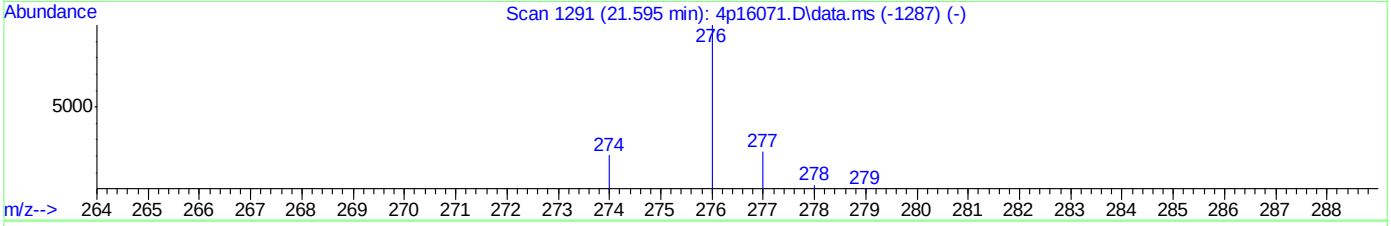
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 14:54:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16671.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.14ppm

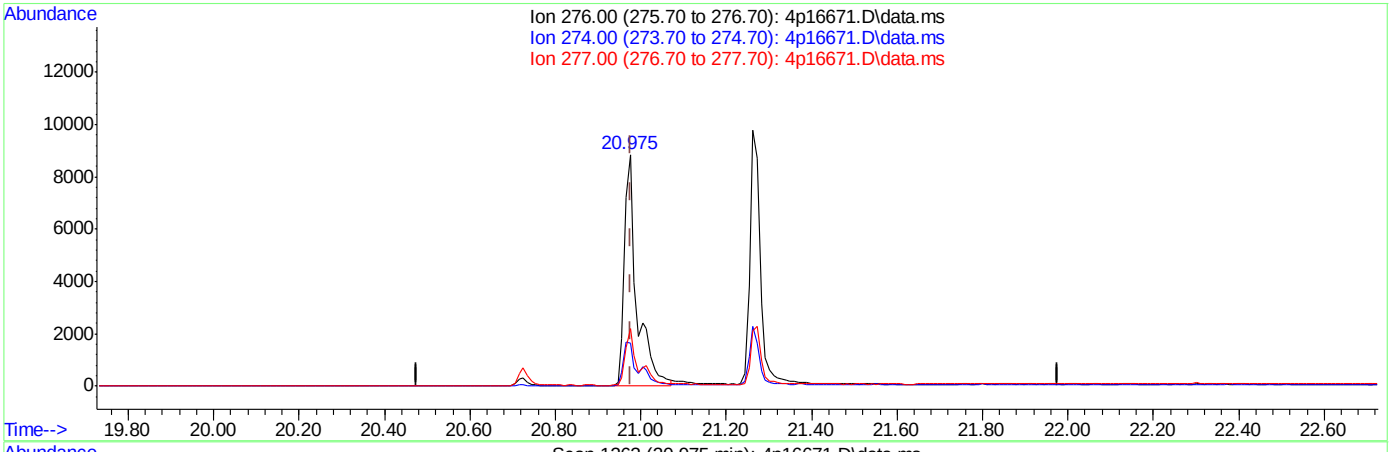
response 13642

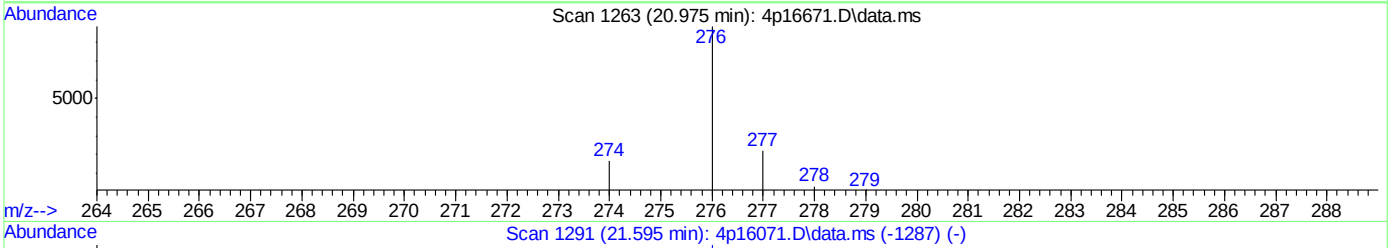
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.85
277.00	25.70	24.14
0.00	0.00	0.00

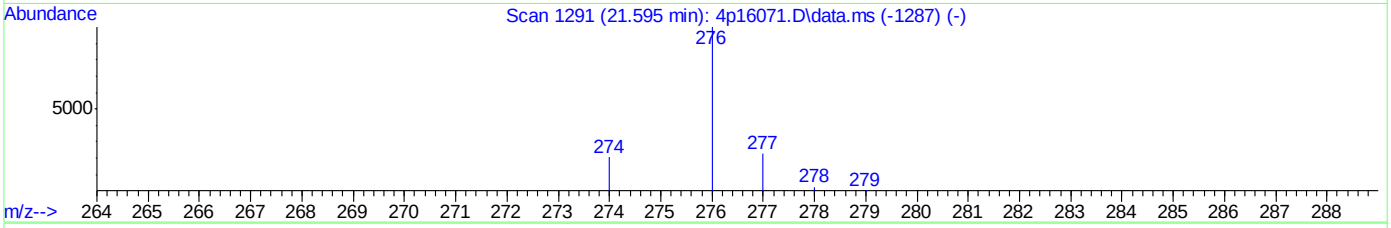
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 14:54:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16671.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.19ppm m

response 18033

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.75
277.00	25.70	24.87
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:00:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.761	150	137127	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	241781	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	332029	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	237840	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	39922	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
4) Phenol-d5	3.750	99	65970	1.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.78%	
7) Nitrobenzene-d5	5.081	82	46633	1.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.66%	
14) 2-Fluorobiphenyl	8.425	172	132374	2.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	5.90%	
22) 2,4,6-Tribromophenol	11.236	330	11239	1.90	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.80%	
30) Terphenyl-d14	15.764	244	83507	1.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.50%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	1004	0.09	ppm	88
5) Phenol	3.768	94	17931	0.47	ppm #	89
6) bis(2-Chloroethyl)ether	3.854	93	2561	0.09	ppm #	32
8) Naphthalene	6.343	128	8883	0.10	ppm	98
9) Hexachlorobutadiene	6.648	225	1498	0.09	ppm	92
10) 2-Methylnaphthalene	7.646	141	4524	0.11	ppm	91
11) 1-Methylnaphthalene	7.829	141	5941	0.11	ppm	92
12) Hexachlorocyclopentadiene	8.013	237	1067	0.08	ppm	94
15) Acenaphthylene	9.365	152	8634	0.12	ppm	97
16) Acenaphthene	9.731	153	4891	0.09	ppm	92
17) Dibenzofuran	10.075	168	7684	0.11	ppm	97
18) Fluorene	10.759	166	6410	0.10	ppm	95
19) 4,6-dinitro-2-methylph...	10.957	198	716	0.17	ppm	90
20) n-nitrosodiphenylamine	11.081	169	3268	0.11	ppm	93
21) 1,2-Diphenylhydrazine	11.131	77	5151	0.09	ppm	92
24) Hexachlorobenzene	11.840	284	1831	0.09	ppm #	69
25) Pentachlorophenol	12.287	266	1683	0.21	ppm	95
26) Phenanthrene	12.631	178	8303	0.08	ppm	99
27) Anthracene	12.735	178	6875	0.07	ppm	99
28) Fluoranthene	14.938	202	9979	0.09	ppm	97
29) Pyrene	15.333	202	8466	0.08	ppm	97
31) Benzo[a]anthracene	17.452	228	5429	0.07	ppm	92
32) Chrysene	17.510	228	7188	0.08	ppm	94
34) Benzo[b]fluoranthene	19.112	252	7333	0.08	ppm	97
35) Benzo[k]fluoranthene	19.147	252	5932	0.08	ppm	91
36) Benzo[a]pyrene	19.549	252	7922	0.10	ppm	91
37) Indeno[1,2,3-cd]pyrene	20.975	276	7813m	0.09	ppm	
38) Dibenz[a,h]anthracene	21.013	278	5913	0.08	ppm	98
39) Benzo[g,h,i]perylene	21.263	276	7255	0.09	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:00:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

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

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

7.6.20

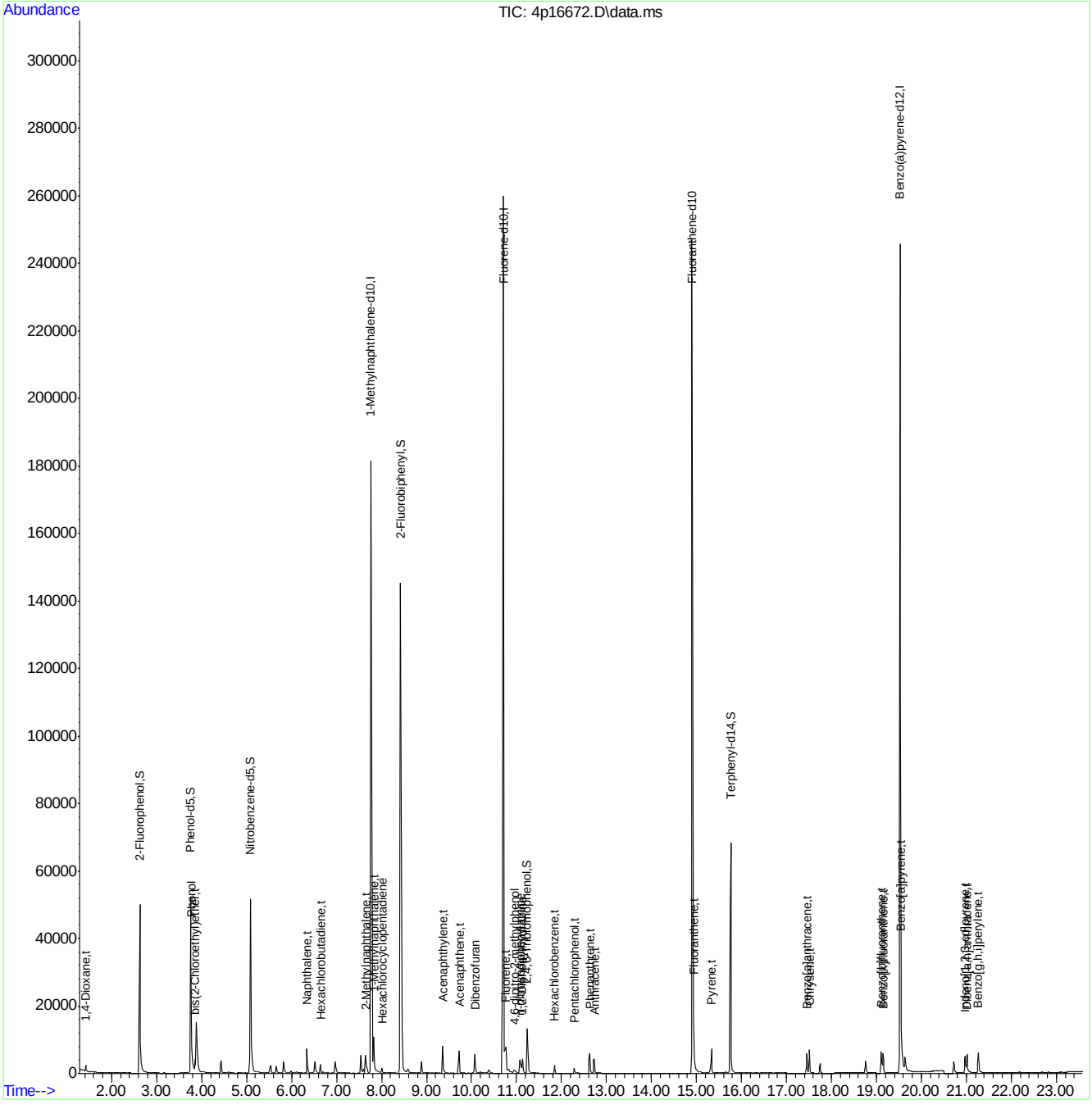
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:00:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

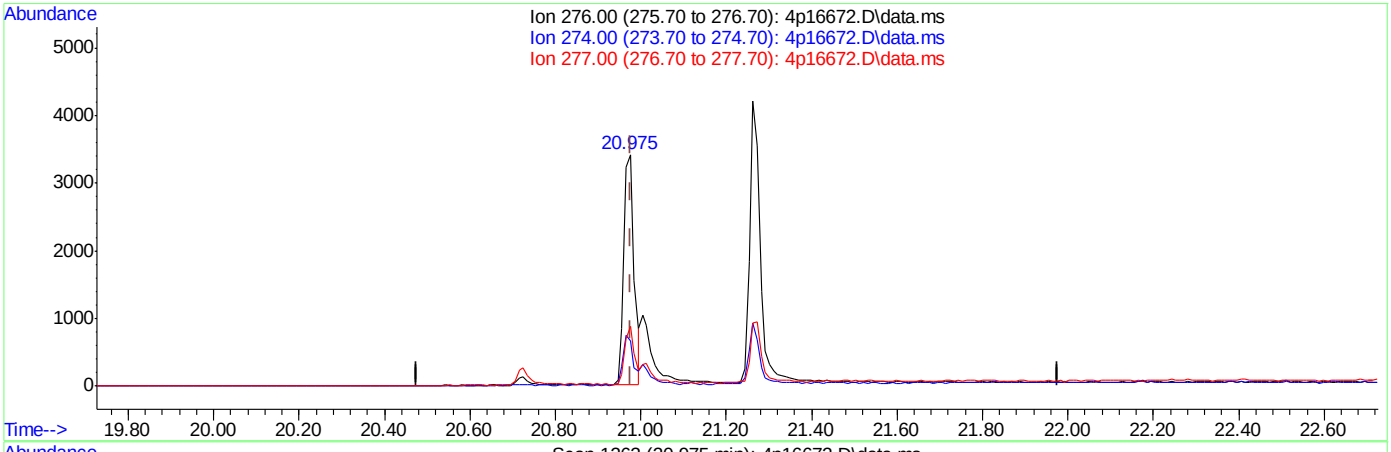
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16672.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 11:50	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

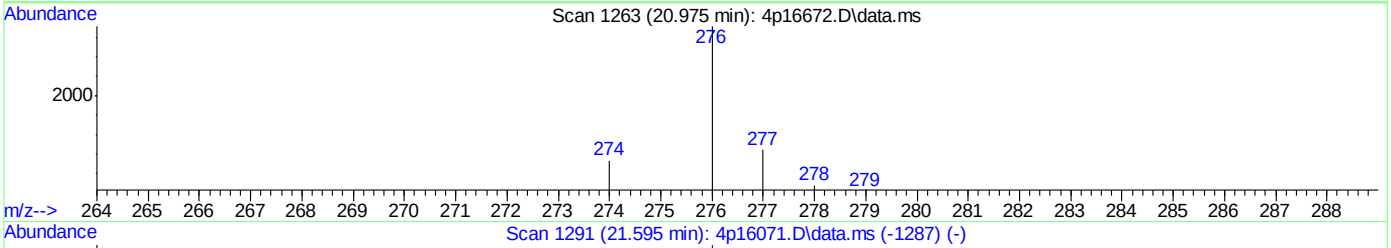
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

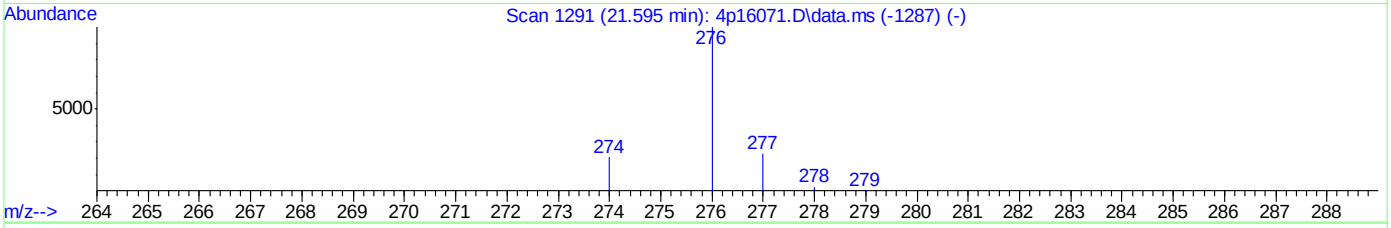
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 14:54:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16672.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.06ppm

response 5714

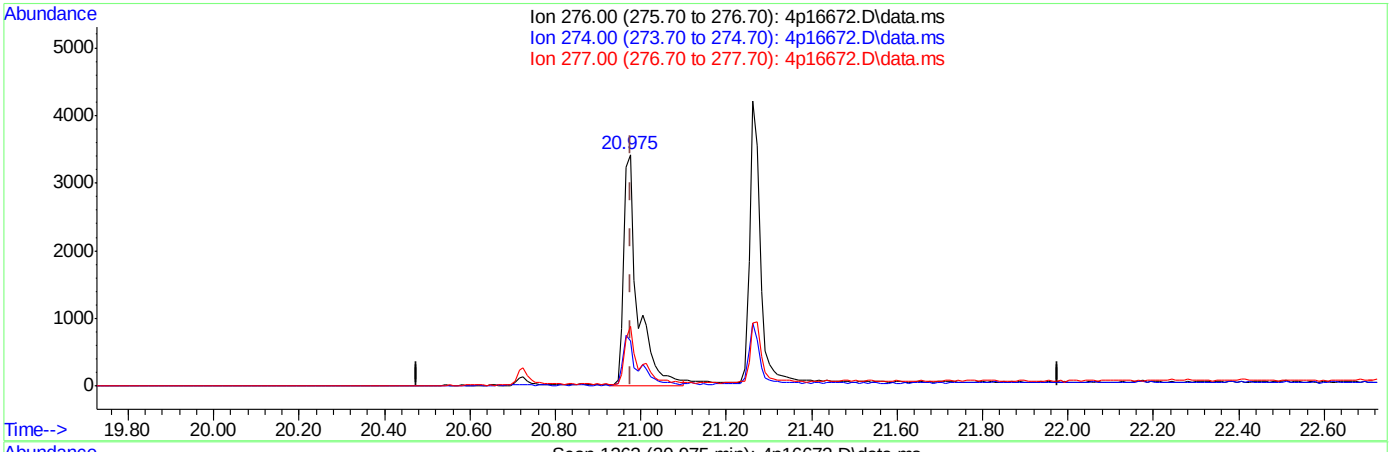
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.09
277.00	25.70	25.57
0.00	0.00	0.00

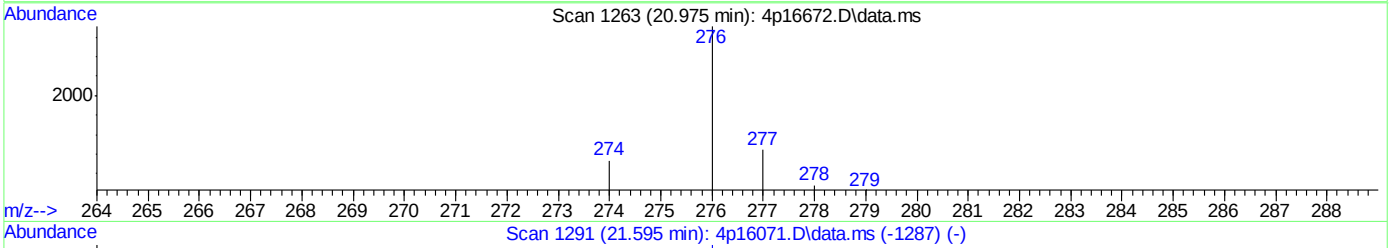
SGS ACCUTEST JC21229

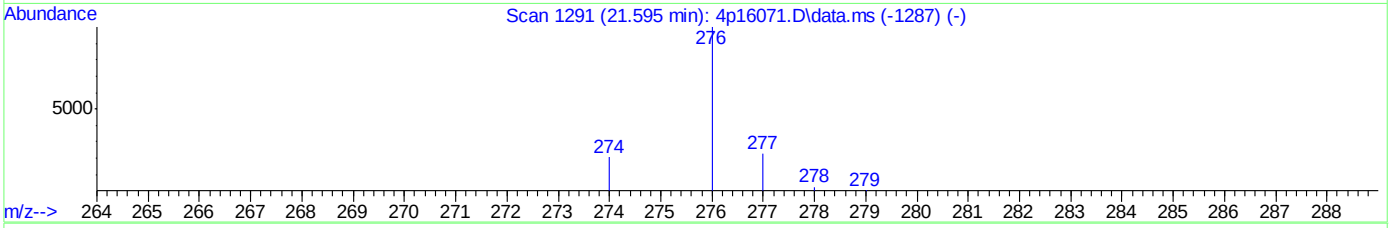
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 14:54:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16672.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.09ppm m

response 7813

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	19.43
277.00	25.70	26.03
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:01:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.762	150	144888	4.00	ppm	-0.02
13) Fluorene-d10	10.711	176	230572	4.00	ppm	0.00
23) Fluoranthene-d10	14.905	212	352035	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.530	264	236115	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	20270	0.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
4) Phenol-d5	3.750	99	30849	0.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.68%	
7) Nitrobenzene-d5	5.083	82	22019	0.82	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.64%	
14) 2-Fluorobiphenyl	8.427	172	69496	1.62	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.24%	
22) 2,4,6-Tribromophenol	11.238	330	5804	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
30) Terphenyl-d14	15.748	244	41958	0.83	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.66%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	508	0.05	ppm #	57
5) Phenol	3.767	94	8555	0.21	ppm #	80
6) bis(2-Chloroethyl)ether	3.853	93	1239	0.04	ppm #	31
8) Naphthalene	6.344	128	4578	0.05	ppm	98
9) Hexachlorobutadiene	6.650	225	781	0.05	ppm	89
10) 2-Methylnaphthalene	7.648	141	2892	0.06	ppm	87
11) 1-Methylnaphthalene	7.831	141	3213	0.06	ppm	87
12) Hexachlorocyclopentadiene	8.015	237	358	0.03	ppm	90
15) Acenaphthylene	9.366	152	4446	0.06	ppm	95
16) Acenaphthene	9.733	153	2340	0.05	ppm	89
17) Dibenzofuran	10.077	168	6334	0.10	ppm	88
18) Fluorene	10.760	166	3320	0.06	ppm	94
19) 4,6-dinitro-2-methylph...	10.959	198	281	0.07	ppm #	46
20) n-nitrosodiphenylamine	11.083	169	1743	0.06	ppm	89
21) 1,2-Diphenylhydrazine	11.133	77	2236	0.04	ppm	89
24) Hexachlorobenzene	11.842	284	972	0.05	ppm	76
25) Pentachlorophenol	12.289	266	912	0.11	ppm	95
26) Phenanthrene	12.633	178	4186	0.04	ppm	97
27) Anthracene	12.719	178	3493	0.04	ppm	88
28) Fluoranthene	14.939	202	5266	0.05	ppm	96
29) Pyrene	15.335	202	4376	0.04	ppm	97
31) Benzo[a]anthracene	17.456	228	2780	0.03	ppm	97
32) Chrysene	17.504	228	3540	0.04	ppm	99
34) Benzo[b]fluoranthene	19.116	252	3212	0.04	ppm	94
35) Benzo[k]fluoranthene	19.150	252	3352	0.04	ppm	91
36) Benzo[a]pyrene	19.553	252	3497m	0.05	ppm	
37) Indeno[1,2,3-cd]pyrene	20.969	276	3790m	0.04	ppm	
38) Dibenz[a,h]anthracene	21.017	278	2844	0.04	ppm	91
39) Benzo[g,h,i]perylene	21.267	276	3562	0.05	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:01:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

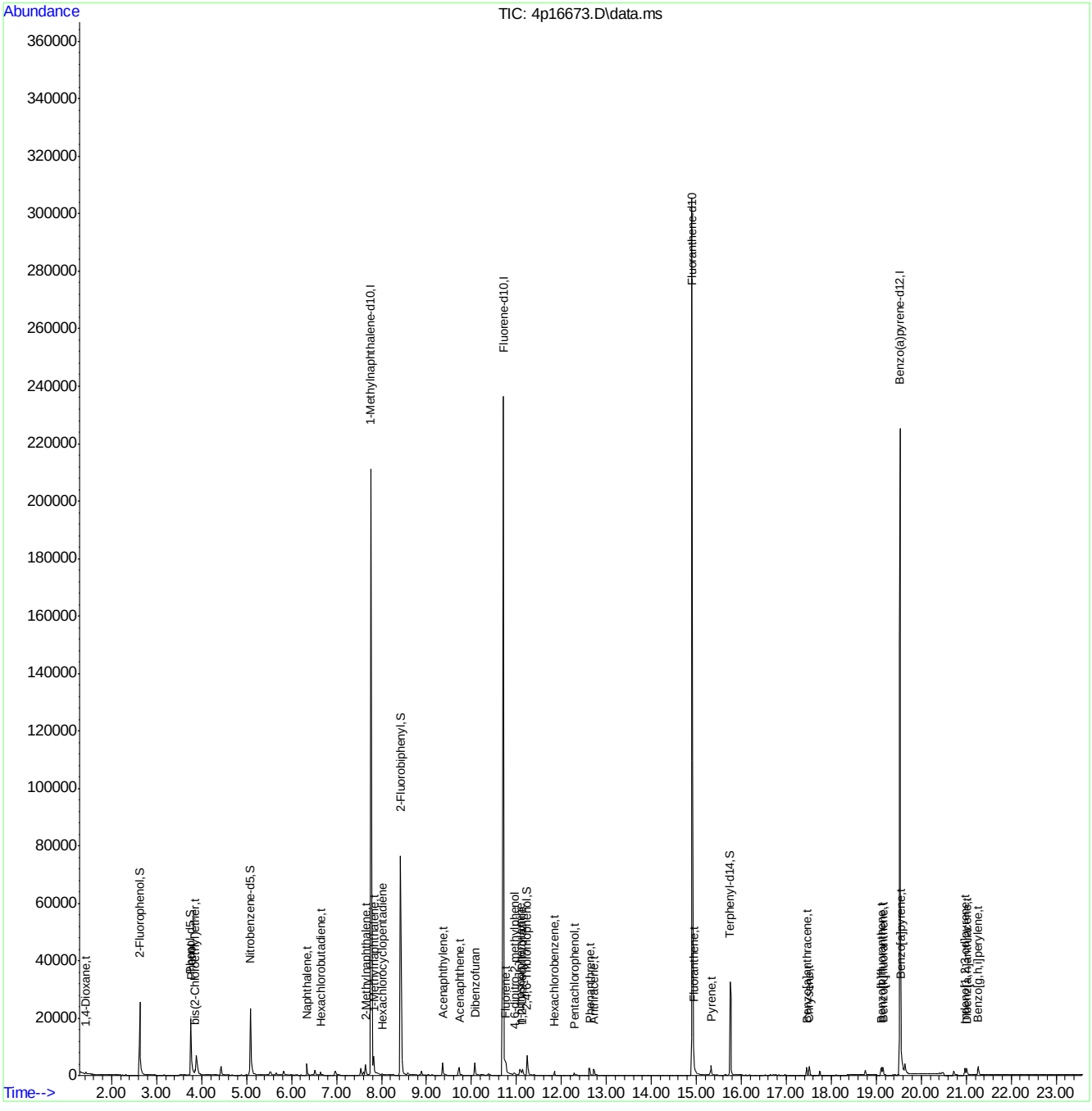
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:01:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



Manual Integration Approval Summary

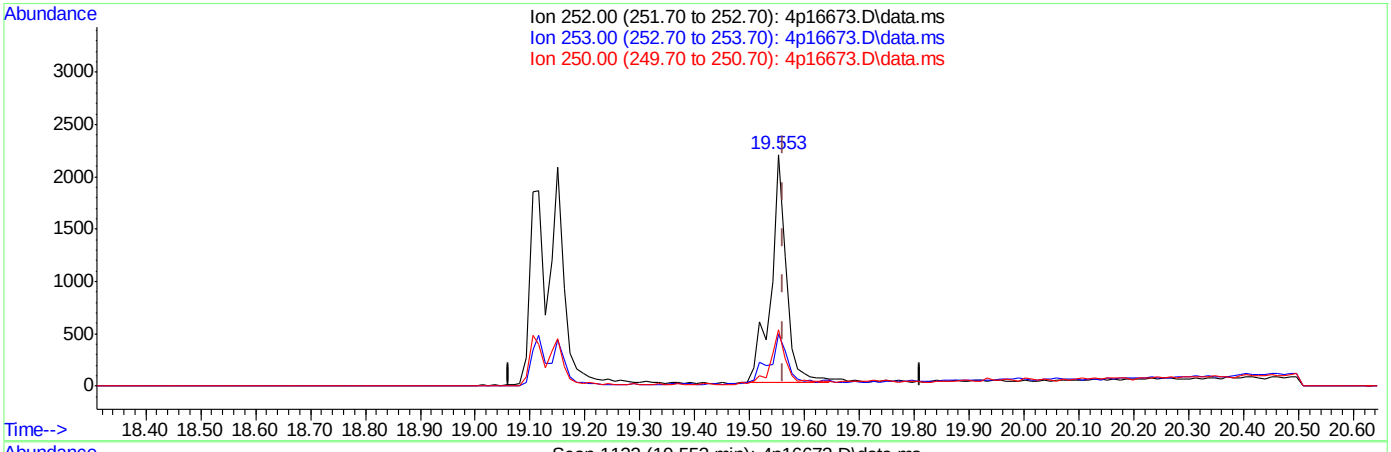
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16673.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 12:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

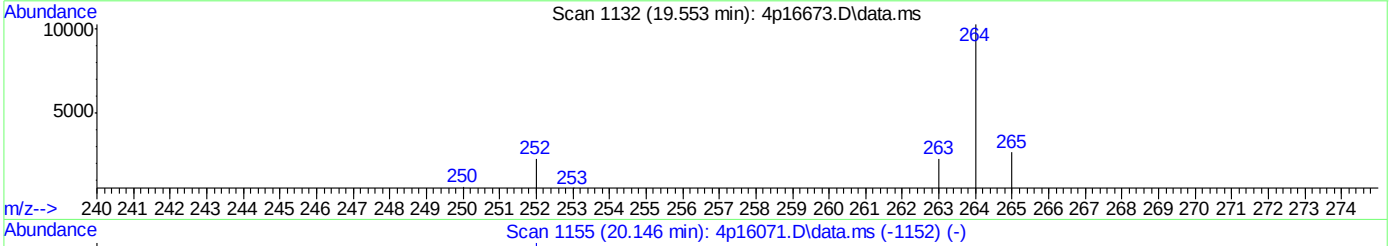
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(a)pyrene	50-32-8		19.55	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

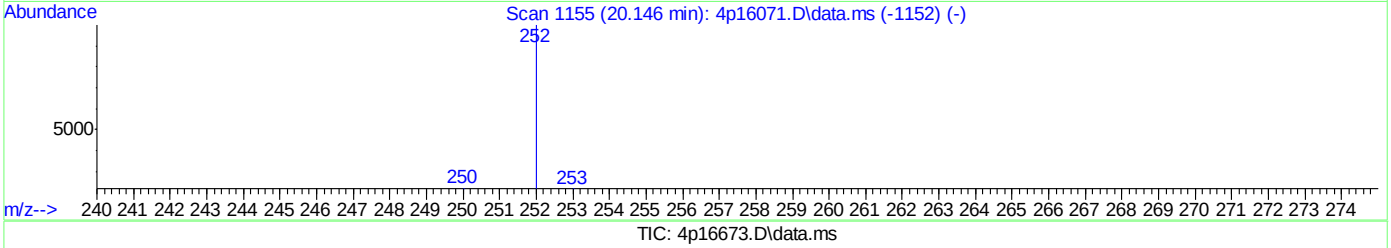
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(36) Benzo[a]pyrene (t)

19.553min (-0.008) 0.06ppm

response 4239

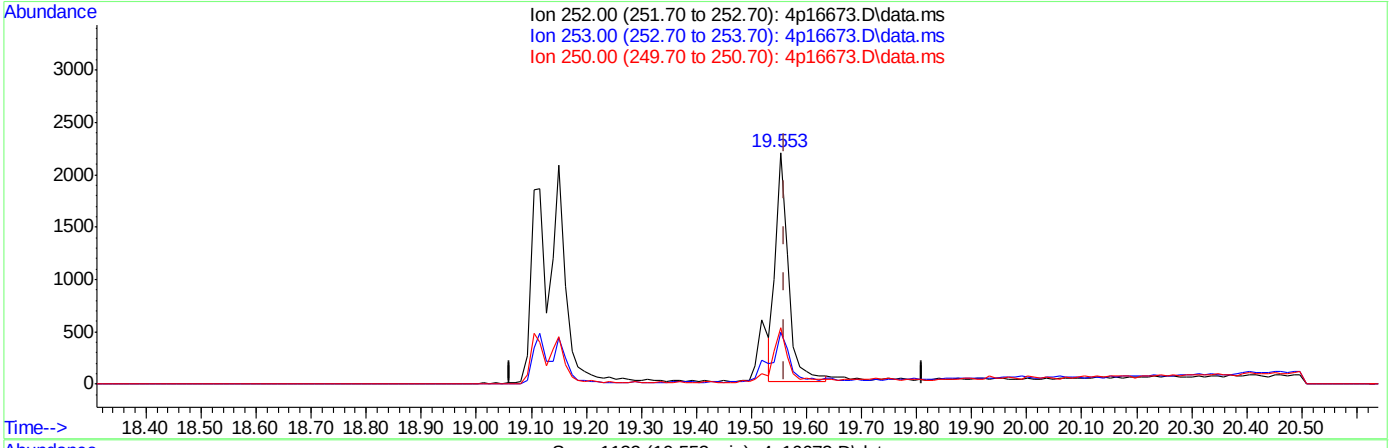
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	21.23
250.00	20.80	22.90
0.00	0.00	0.00

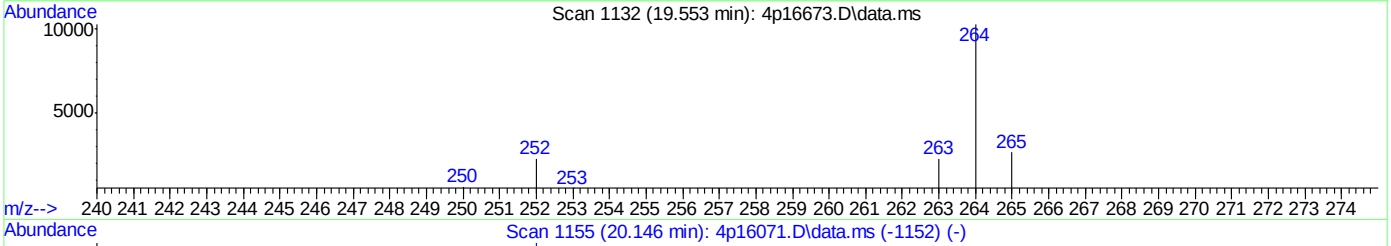
SGS ACCUTEST JC21229

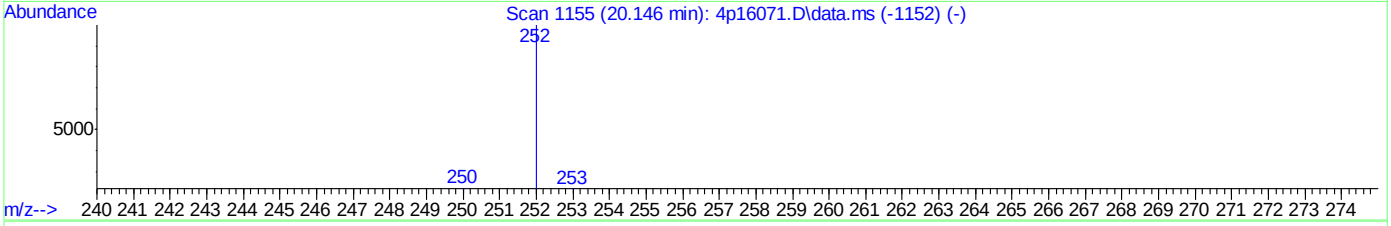
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(36) Benzo[a]pyrene (t)

19.553min (-0.008) 0.05ppm m

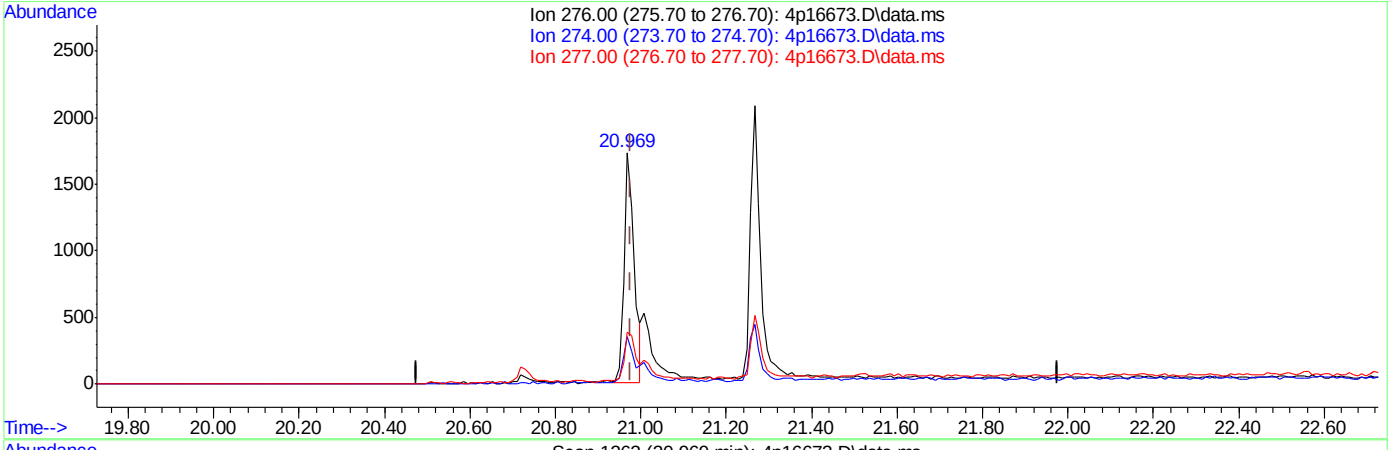
response 3497

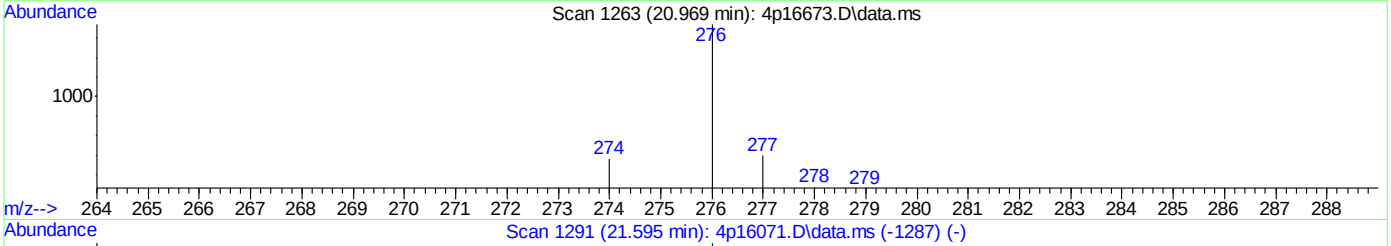
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	22.54
250.00	20.80	24.21
0.00	0.00	0.00

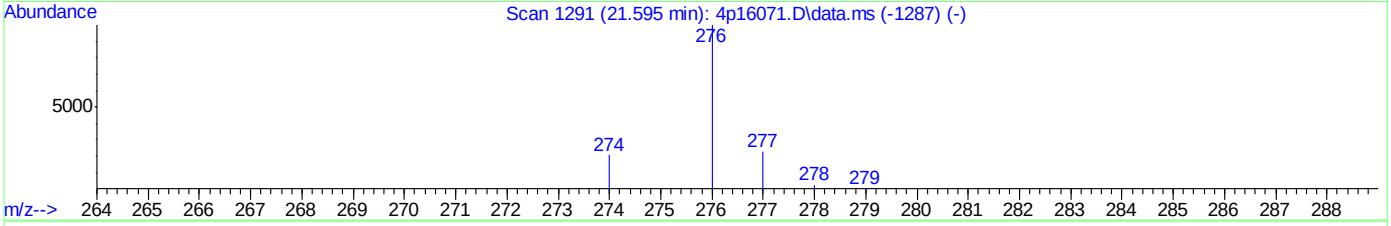
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.008) 0.03ppm

response 2821

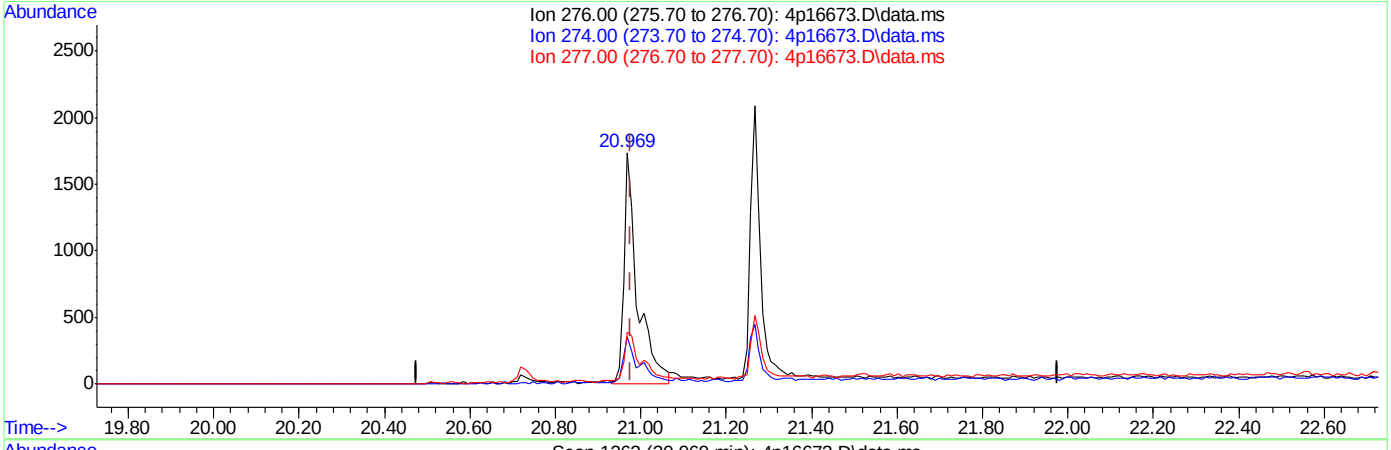
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.95
277.00	25.70	20.35
0.00	0.00	0.00

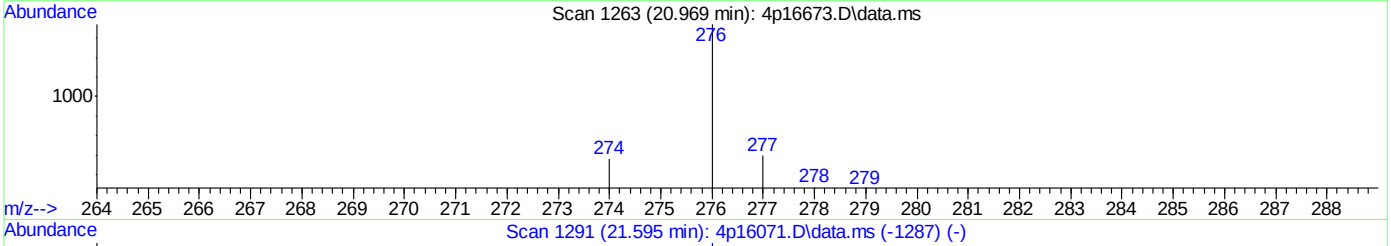
SGS ACCUTEST JC21229

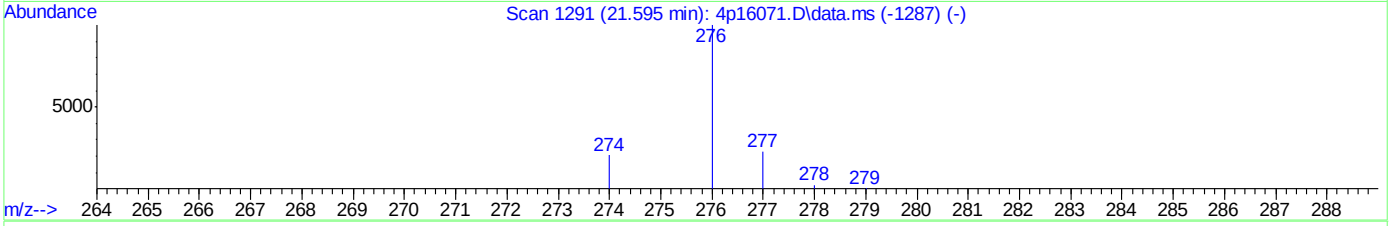
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.008) 0.04ppm m

response 3790

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	20.64
277.00	25.70	22.66
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:02:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.761	150	140143	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	229403	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	329353	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	223750	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	7471	0.37	ppm	0.00
Spiked Amount 50.000			Recovery = 0.74%			
4) Phenol-d5	3.750	99	11083	0.31	ppm	0.00
Spiked Amount 50.000			Recovery = 0.62%			
7) Nitrobenzene-d5	5.081	82	9589	0.37	ppm	0.00
Spiked Amount 50.000			Recovery = 0.74%			
14) 2-Fluorobiphenyl	8.425	172	25390	0.60	ppm	0.00
Spiked Amount 50.000			Recovery = 1.20%			
22) 2,4,6-Tribromophenol	11.236	330	1881	0.34	ppm	0.00
Spiked Amount 50.000			Recovery = 0.68%			
30) Terphenyl-d14	15.764	244	15163	0.32	ppm	0.00
Spiked Amount 50.000			Recovery = 0.64%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	359	0.03	ppm	91
5) Phenol	3.768	94	3233	0.08	ppm #	74
6) bis(2-Chloroethyl)ether	3.854	93	698	0.02	ppm #	60
8) Naphthalene	6.343	128	1762	0.02	ppm	98
9) Hexachlorobutadiene	6.649	225	359	0.02	ppm	91
10) 2-Methylnaphthalene	7.646	141	1691	0.04	ppm	90
11) 1-Methylnaphthalene	7.829	141	1316	0.02	ppm	87
12) Hexachlorocyclopentadiene	8.013	237	114	0.01	ppm #	39
15) Acenaphthylene	9.365	152	1698	0.02	ppm	96
16) Acenaphthene	9.731	153	928	0.02	ppm	90
17) Dibenzofuran	10.075	168	4626	0.07	ppm	97
18) Fluorene	10.759	166	1166	0.02	ppm	97
19) 4,6-dinitro-2-methylph...	10.957	198	179	0.05	ppm #	1
20) n-nitrosodiphenylamine	11.081	169	653	0.02	ppm	95
21) 1,2-Diphenylhydrazine	11.131	77	987	0.02	ppm	91
24) Hexachlorobenzene	11.840	284	404	0.02	ppm	71
25) Pentachlorophenol	12.287	266	551	0.07	ppm	88
26) Phenanthrene	12.631	178	1732	0.02	ppm	98
27) Anthracene	12.735	178	1513	0.02	ppm	97
28) Fluoranthene	14.938	202	2262	0.02	ppm	96
29) Pyrene	15.333	202	1666	0.02	ppm	98
31) Benzo[a]anthracene	17.452	228	935	0.01	ppm	90
32) Chrysene	17.510	228	1320	0.01	ppm	95
34) Benzo[b]fluoranthene	19.112	252	1283	0.02	ppm	96
35) Benzo[k]fluoranthene	19.147	252	1042	0.01	ppm	85
36) Benzo[a]pyrene	19.549	252	1176	0.02	ppm	92
37) Indeno[1,2,3-cd]pyrene	20.967	276	1233m	0.01	ppm	
38) Dibenz[a,h]anthracene	21.015	278	1047	0.02	ppm	91
39) Benzo[g,h,i]perylene	21.265	276	1385	0.02	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:02:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

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

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

7.6.22

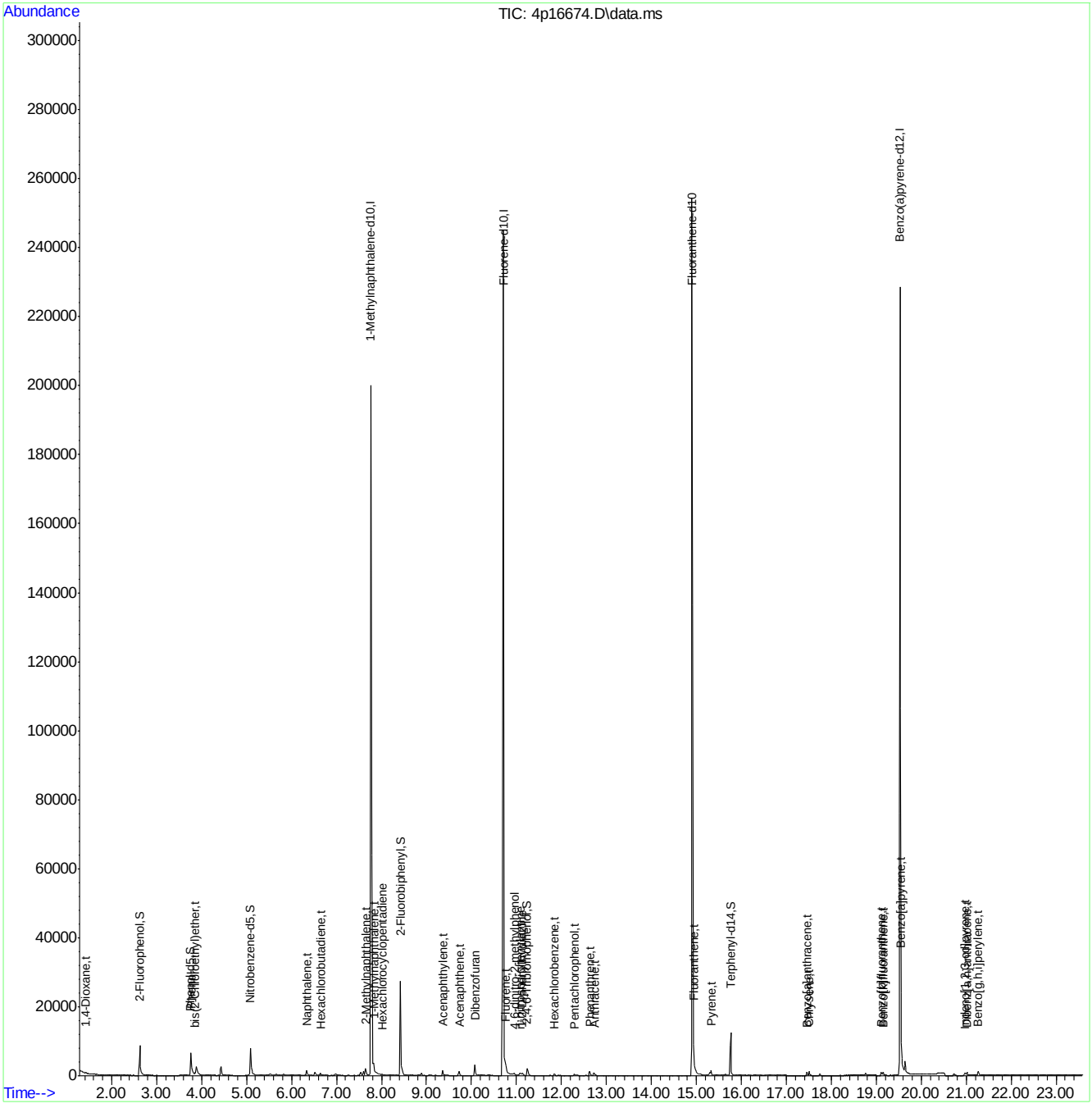
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:02:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

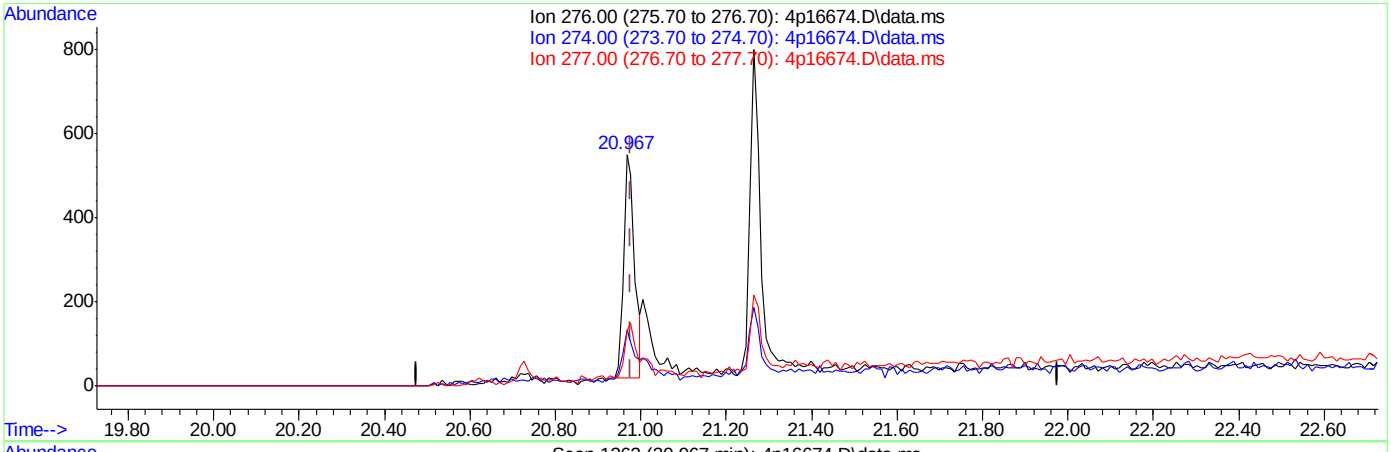
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16674.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 12:49	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

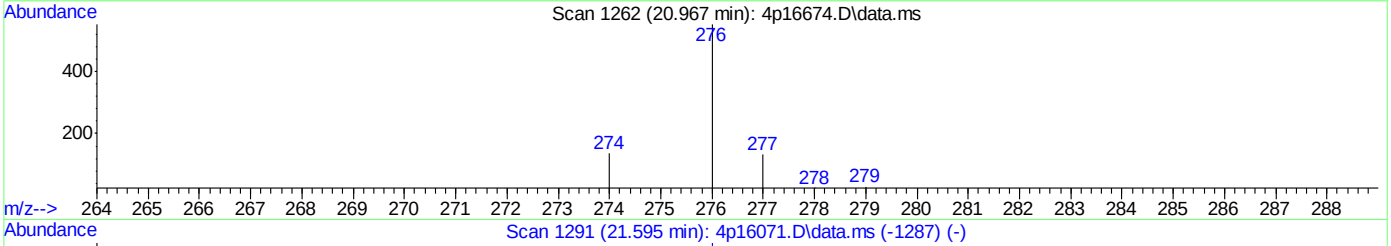
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

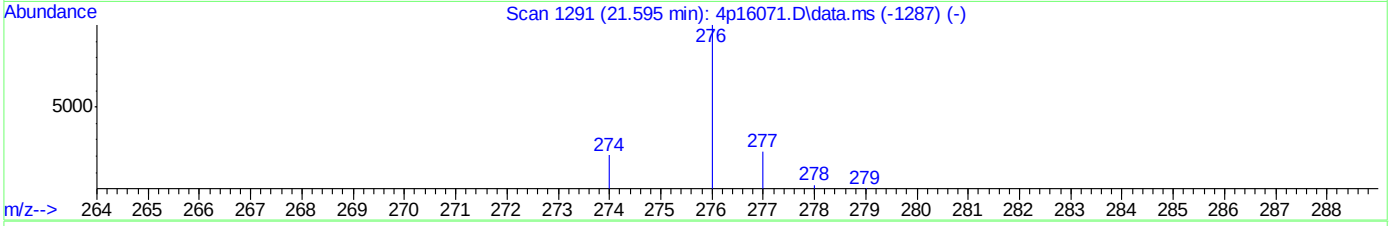
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 14:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16674.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.009) 0.01ppm

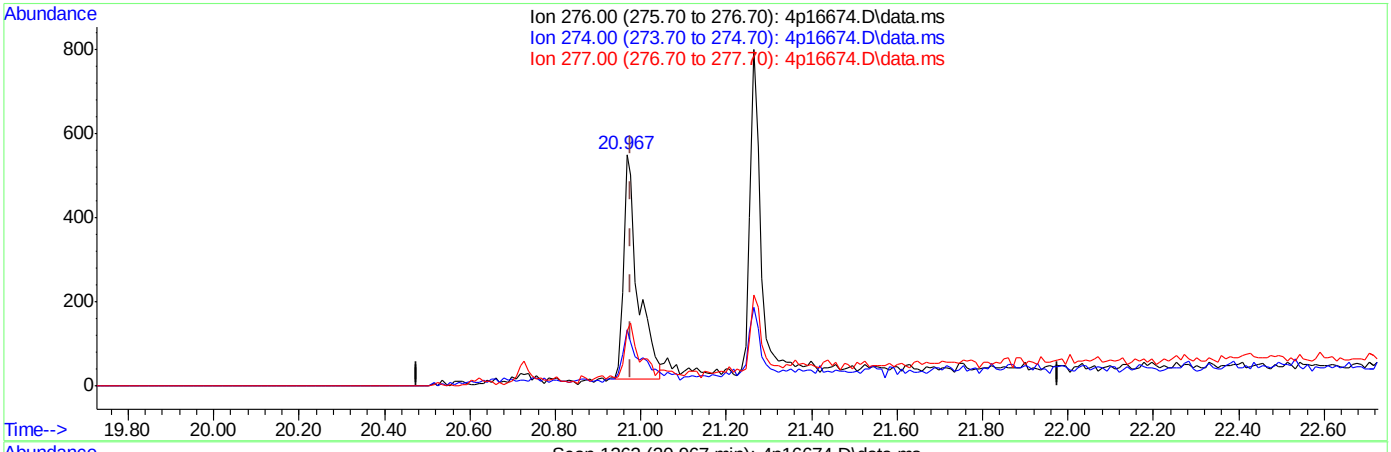
response 935

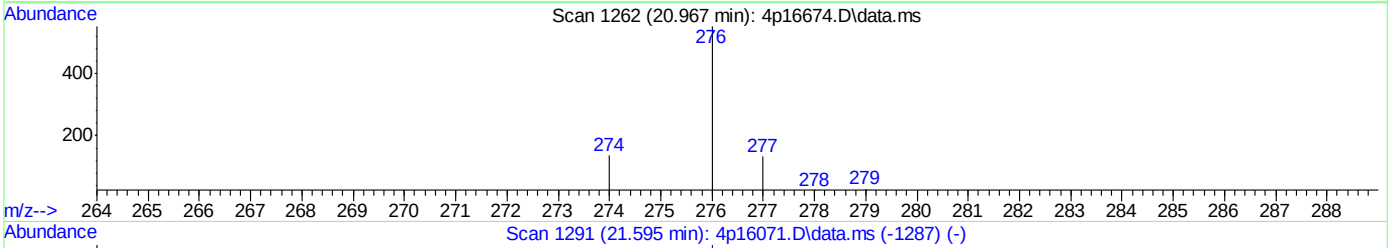
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	20.81
277.00	25.70	20.70
0.00	0.00	0.00

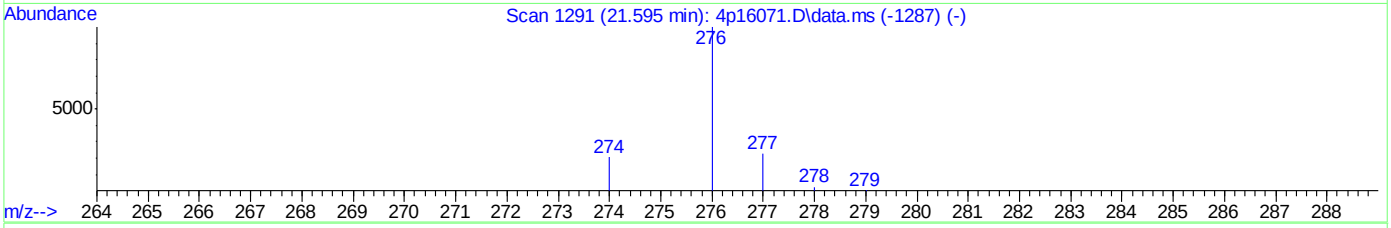
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 14:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16674.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.009) 0.01ppm m

response 1233

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	24.50
277.00	25.70	24.14
0.00	0.00	0.00

4P16675.D

Manual Integrations APPROVED (compounds with "m" flag)

Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:02:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.761	150	140162	4.00 ppm	-0.02
13) Fluorene-d10	10.709	176	238239	4.00 ppm	0.00
23) Fluoranthene-d10	14.903	212	339097	4.00 ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	230936	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	2.628	112	3619	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
4) Phenol-d5	3.768	99	4928	0.14 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.28%	
7) Nitrobenzene-d5	5.081	82	4592	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
14) 2-Fluorobiphenyl	8.425	172	12697	0.29 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.58%	
22) 2,4,6-Tribromophenol	11.236	330	846	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
30) Terphenyl-d14	15.764	244	7128	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.422	88	191	0.02 ppm	90
5) Phenol	3.768	94	1583	0.04 ppm #	42
6) bis(2-Chloroethyl)ether	3.854	93	263	0.01 ppm #	71
8) Naphthalene	6.343	128	945	0.01 ppm	95
9) Hexachlorobutadiene	6.649	225	187	0.01 ppm	91
10) 2-Methylnaphthalene	7.646	141	1286	0.03 ppm	92
11) 1-Methylnaphthalene	7.829	141	677	0.01 ppm	87
12) Hexachlorocyclopentadiene	8.013	237	81	0.01 ppm #	1
15) Acenaphthylene	9.365	152	854	0.01 ppm	96
16) Acenaphthene	9.731	153	485	0.01 ppm	88
17) Dibenzofuran	10.075	168	4160	0.06 ppm	97
18) Fluorene	10.684	166	609	0.01 ppm #	18
19) 4,6-dinitro-2-methylph...	10.982	198	116	0.03 ppm #	22
20) n-nitrosodiphenylamine	11.081	169	348	0.01 ppm #	81
21) 1,2-Diphenylhydrazine	11.131	77	560	0.01 ppm	83
24) Hexachlorobenzene	11.840	284	204	0.01 ppm	70
25) Pentachlorophenol	12.287	266	431	0.05 ppm	93
26) Phenanthrene	12.631	178	834	0.01 ppm	98
27) Anthracene	12.735	178	737	0.01 ppm	98
28) Fluoranthene	14.938	202	1345	0.01 ppm	97
29) Pyrene	15.334	202	860	0.01 ppm	98
31) Benzo[a]anthracene	17.452	228	493	0.01 ppm	94
32) Chrysene	17.510	228	696	0.01 ppm	95
34) Benzo[b]fluoranthene	19.112	252	645	0.01 ppm	93
35) Benzo[k]fluoranthene	19.147	252	492	0.01 ppm	97
36) Benzo[a]pyrene	19.549	252	611	0.01 ppm	84
37) Indeno[1,2,3-cd]pyrene	20.975	276	615m	0.01 ppm	
38) Dibenz[a,h]anthracene	21.013	278	499	0.01 ppm	79
39) Benzo[g,h,i]perylene	21.263	276	621	0.01 ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:02:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

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

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

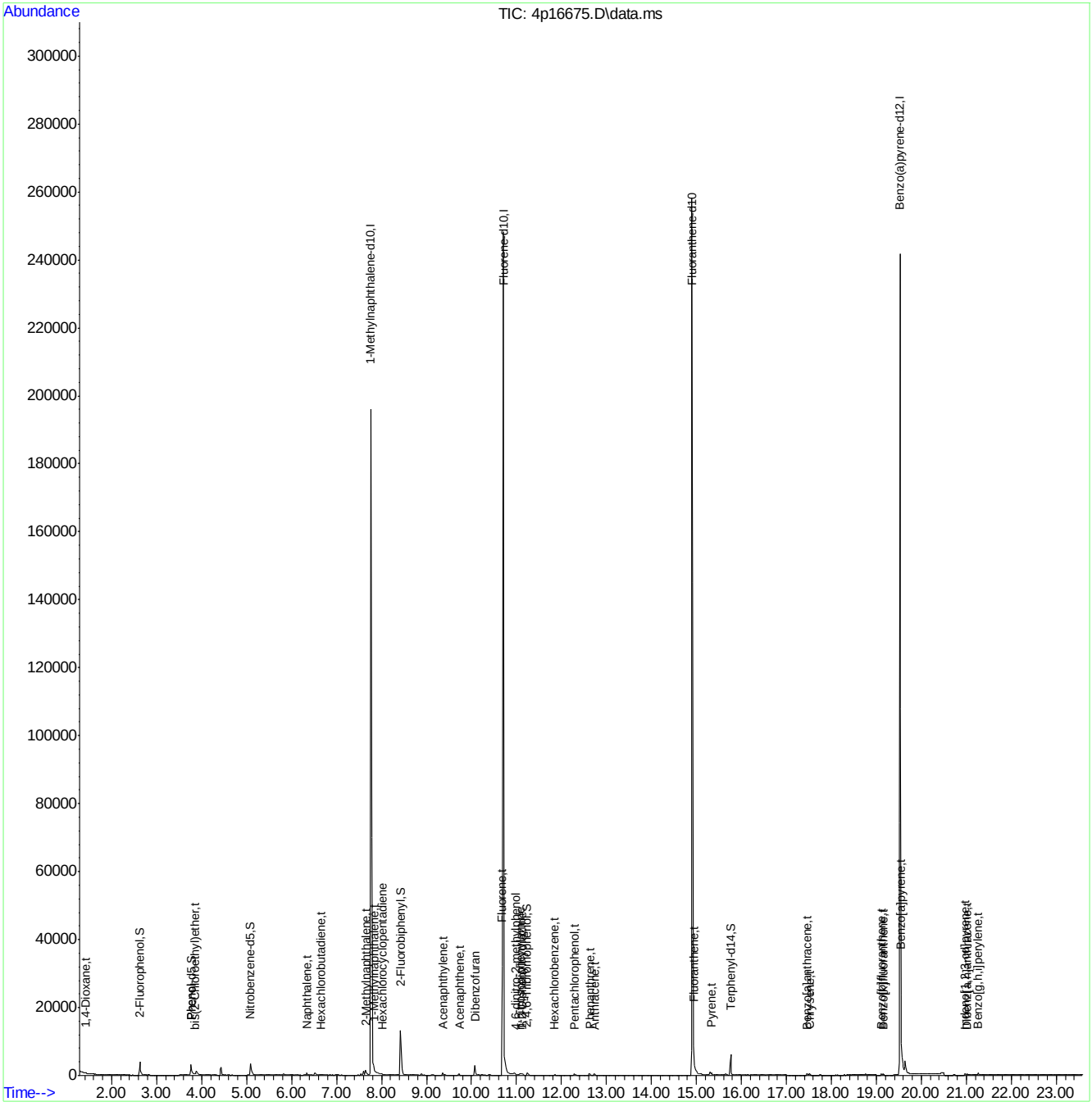
7.6.23

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:02:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 15:02:48 2016 Page: 3

Manual Integration Approval Summary

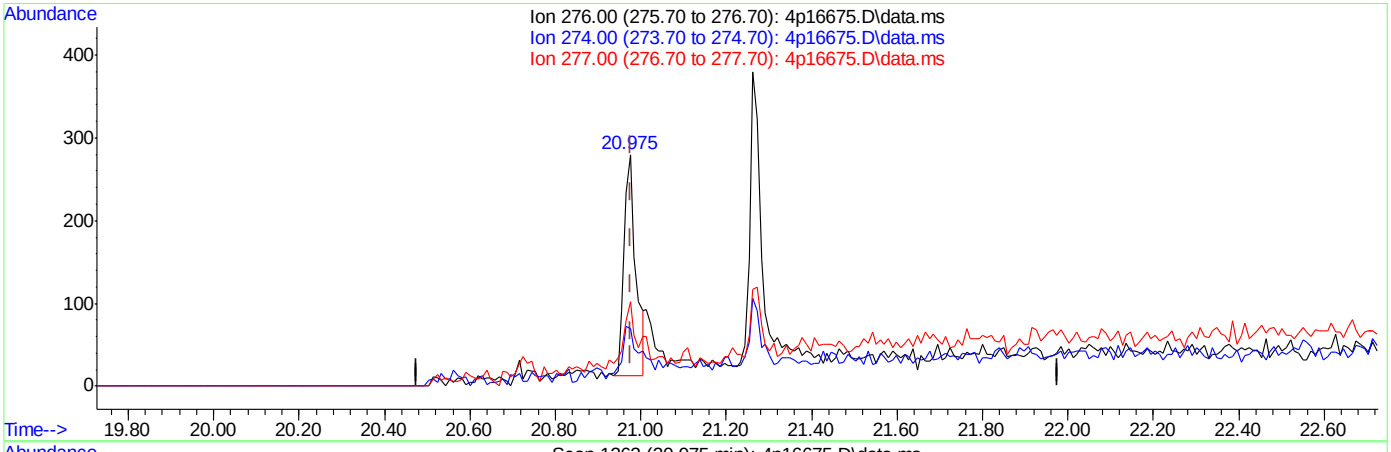
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16675.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 13:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

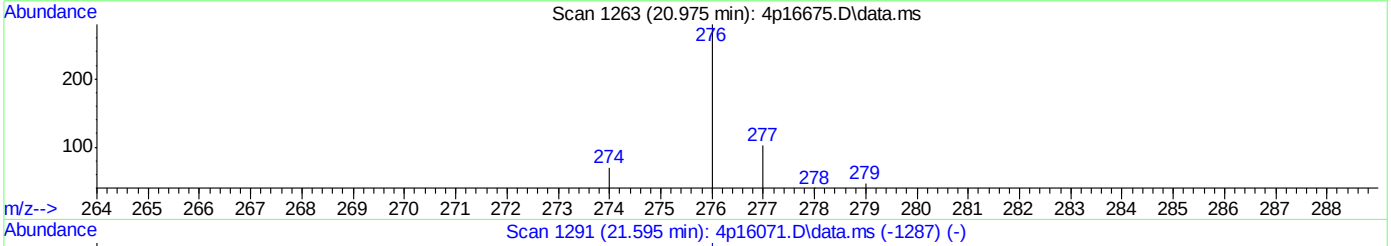
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

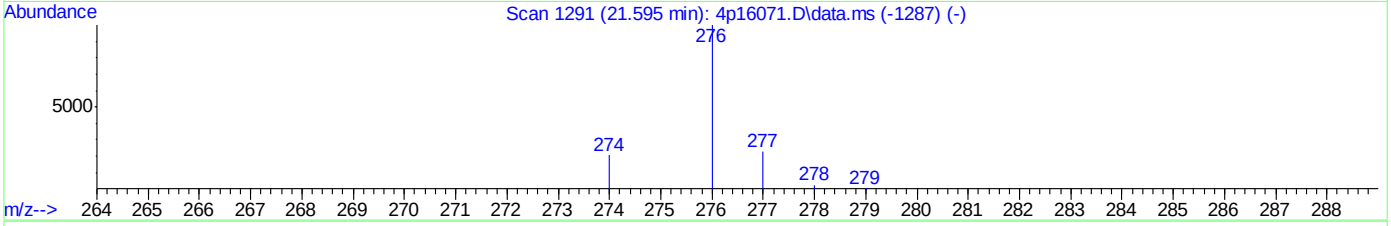
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 14:54:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16675.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.01ppm

response 508

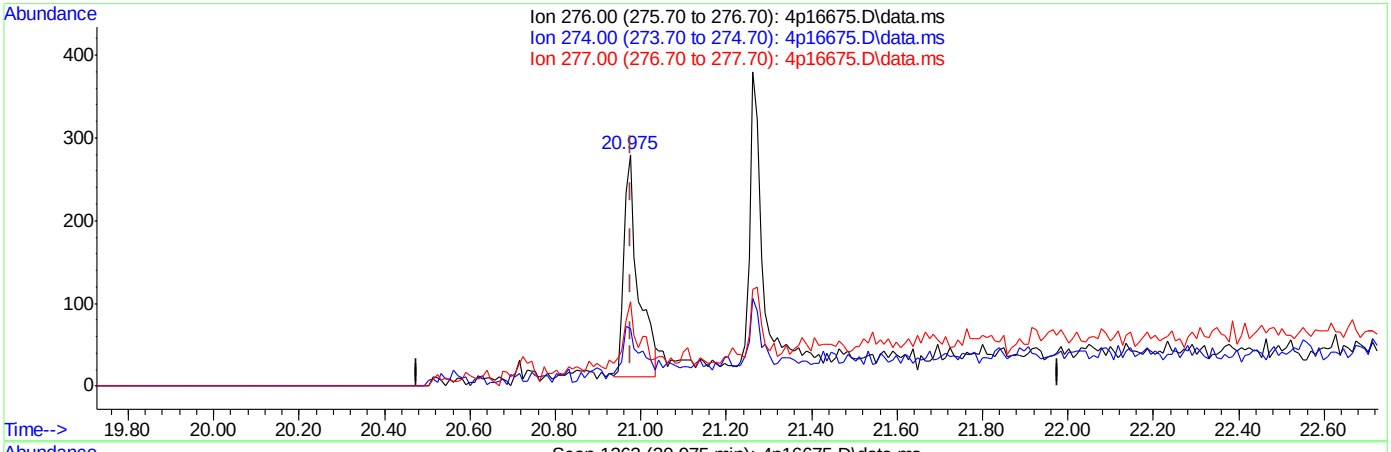
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.54
277.00	25.70	25.66
0.00	0.00	0.00

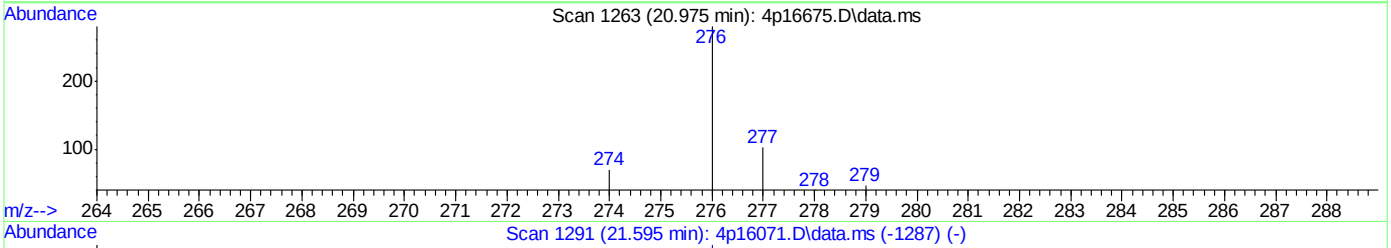
SGS ACCUTEST JC21229

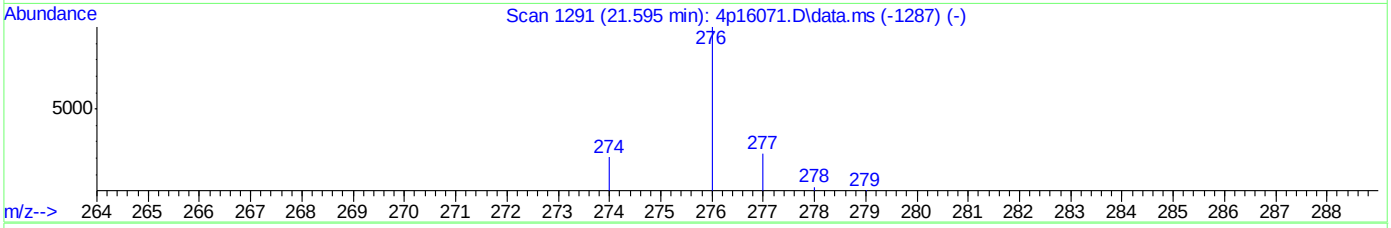
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 14:54:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16675.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.01ppm m

response 615

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	24.64
277.00	25.70	36.43
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:04:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.760	150	149118	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	284210	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	345134	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	240786	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	1759448	82.31	ppm	0.00
Spiked Amount 50.000			Recovery = 164.62%			
4) Phenol-d5	3.750	99	2743485	72.31	ppm	0.00
Spiked Amount 50.000			Recovery = 144.62%			
7) Nitrobenzene-d5	5.081	82	2586948	93.39	ppm	0.00
Spiked Amount 50.000			Recovery = 186.78%			
14) 2-Fluorobiphenyl	8.425	172	4364591	82.67	ppm	0.00
Spiked Amount 50.000			Recovery = 165.34%			
22) 2,4,6-Tribromophenol	11.236	330	670138	96.54	ppm	0.00
Spiked Amount 50.000			Recovery = 193.08%			
30) Terphenyl-d14	15.763	244	3628905	73.22	ppm	0.00
Spiked Amount 50.000			Recovery = 146.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.421	88	59274	5.14	ppm #	64
5) Phenol	3.767	94	980114	23.37	ppm #	88
6) bis(2-Chloroethyl)ether	3.853	93	131134	4.41	ppm	94
8) Naphthalene	6.342	128	474623	4.75	ppm	97
9) Hexachlorobutadiene	6.648	225	76074	4.41	ppm	91
10) 2-Methylnaphthalene	7.646	141	255720	5.52	ppm	85
11) 1-Methylnaphthalene	7.829	141	306701	5.12	ppm	86
12) Hexachlorocyclopentadiene	8.013	237	134664	9.57	ppm	97
15) Acenaphthylene	9.364	152	512142	5.82	ppm	96
16) Acenaphthene	9.731	153	258924	4.14	ppm	87
17) Dibenzofuran	10.075	168	442043	5.52	ppm	86
18) Fluorene	10.758	166	303626	4.10	ppm	91
19) 4,6-dinitro-2-methylph...	10.957	198	187060	37.99	ppm	93
20) n-nitrosodiphenylamine	11.081	169	207101	6.01	ppm	92
21) 1,2-Diphenylhydrazine	11.131	77	362832	5.52	ppm	92
24) Hexachlorobenzene	11.840	284	94851	4.60	ppm	71
25) Pentachlorophenol	12.270	266	229031	27.40	ppm	77
26) Phenanthrene	12.631	178	465208	4.40	ppm	96
27) Anthracene	12.717	178	480688	4.93	ppm	89
28) Fluoranthene	14.937	202	512839	4.68	ppm	97
29) Pyrene	15.333	202	506073	4.57	ppm	95
31) Benzo[a]anthracene	17.452	228	376444	4.60	ppm	93
32) Chrysene	17.510	228	431063	4.60	ppm	93
34) Benzo[b]fluoranthene	19.112	252	432420	4.85	ppm	95
35) Benzo[k]fluoranthene	19.146	252	367625	4.64	ppm	90
36) Benzo[a]pyrene	19.549	252	368276	4.71	ppm	90
37) Indeno[1,2,3-cd]pyrene	20.967	276	397850m	4.32	ppm	
38) Dibenz[a,h]anthracene	21.015	278	331914	4.47	ppm	98
39) Benzo[g,h,i]perylene	21.265	276	366364	4.57	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:04:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

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

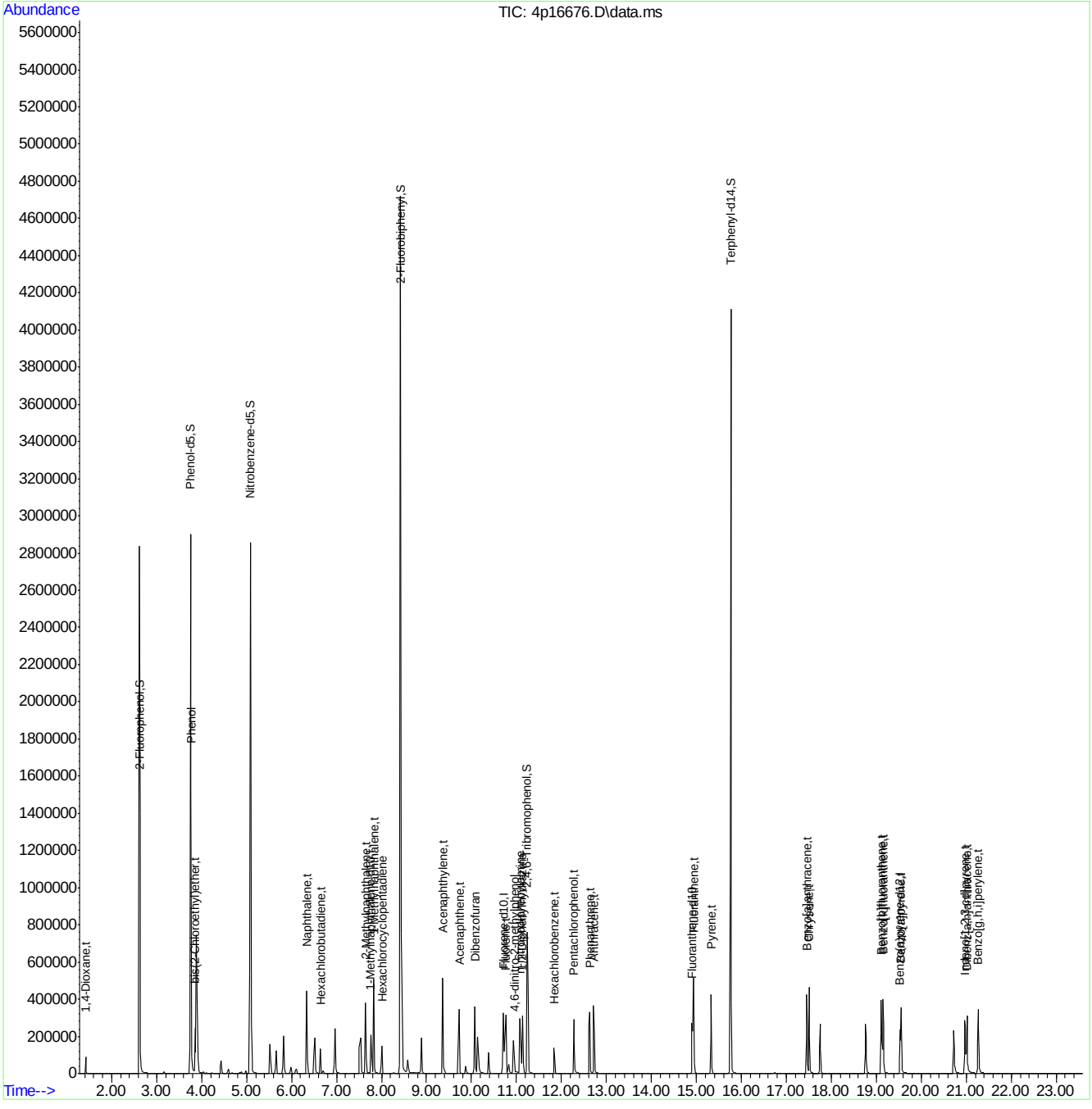
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:04:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 15:04:45 2016 Page: 3

Manual Integration Approval Summary

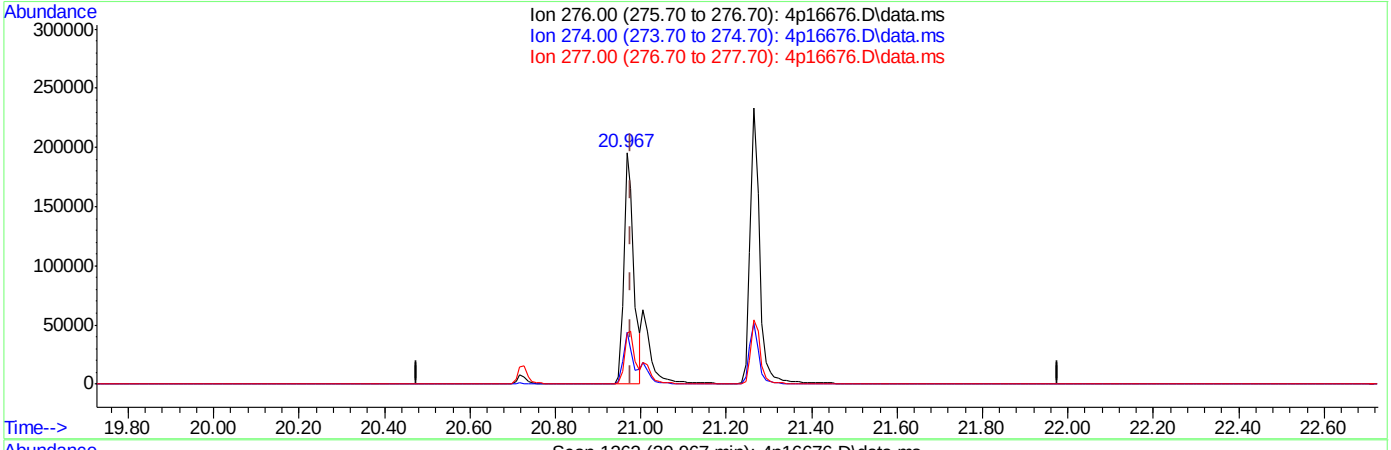
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16676.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 13:49	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

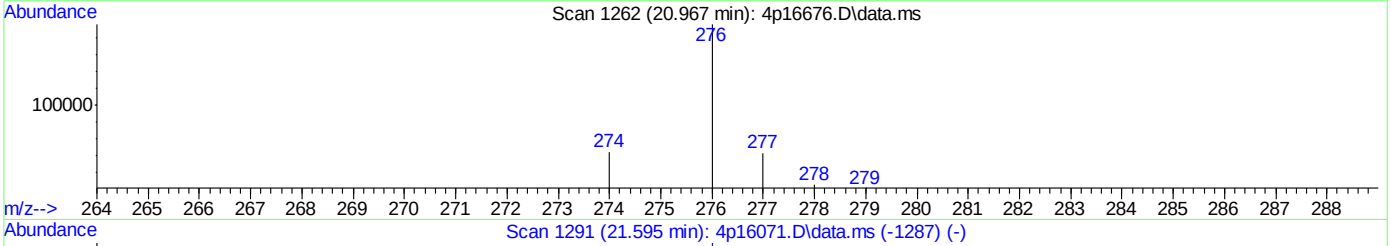
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

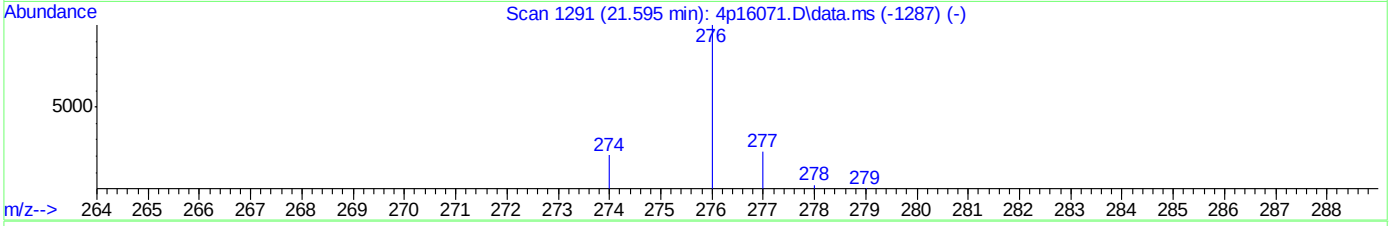
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 14:54:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16676.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.010) 3.38ppm

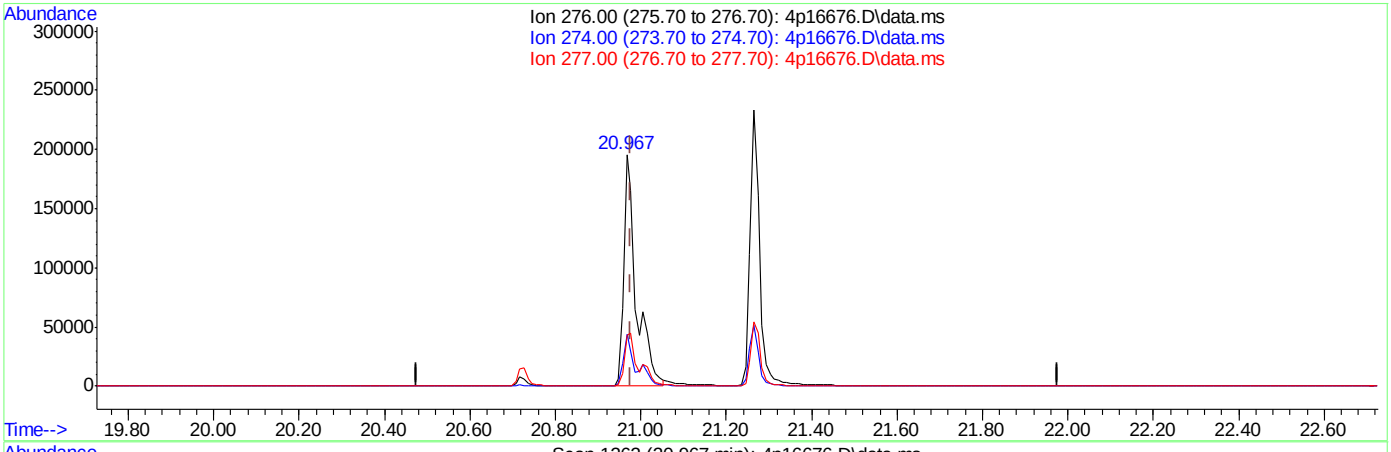
response 311476

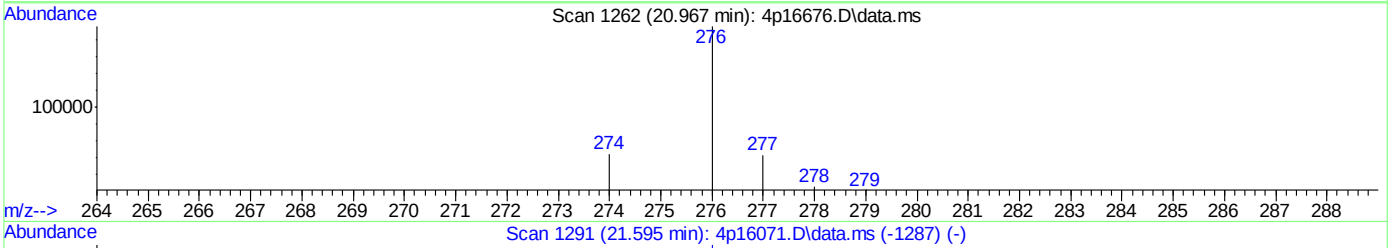
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	21.77
277.00	25.70	21.29
0.00	0.00	0.00

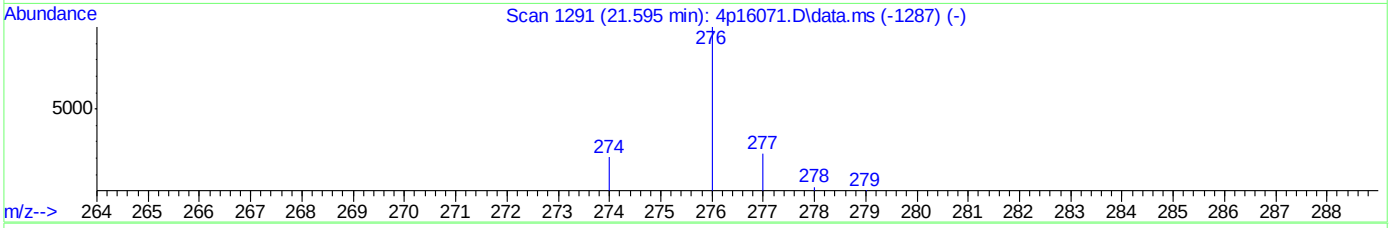
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 14:54:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16676.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.010) 4.32ppm m

response 397850

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	22.50
277.00	25.70	21.83
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 15:05:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.763	150	165682	4.00	ppm	-0.02
13) Fluorene-d10	10.711	176	242175	4.00	ppm	0.00
23) Fluoranthene-d10	14.901	212	340044	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.524	264	238884	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	946423	39.85	ppm	0.00
Spiked Amount 50.000			Recovery = 79.70%			
4) Phenol-d5	3.750	99	1687489	40.03	ppm	0.00
Spiked Amount 50.000			Recovery = 80.06%			
7) Nitrobenzene-d5	5.064	82	1181453	38.39	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.78%			
14) 2-Fluorobiphenyl	8.427	172	2925127	65.02	ppm	0.00
Spiked Amount 50.000			Recovery = 130.04%			
22) 2,4,6-Tribromophenol	11.234	330	366664	61.99	ppm	0.00
Spiked Amount 50.000			Recovery = 123.98%			
30) Terphenyl-d14	15.762	244	2139174	43.81	ppm	0.00
Spiked Amount 50.000			Recovery = 87.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	30818	2.40	ppm #	66
5) Phenol	3.768	94	441103	9.47	ppm #	86
6) bis(2-Chloroethyl)ether	3.854	93	74286	2.25	ppm	80
8) Naphthalene	6.345	128	253306	2.28	ppm	95
9) Hexachlorobutadiene	6.650	225	37667	1.96	ppm	87
10) 2-Methylnaphthalene	7.648	141	140683	2.73	ppm	80
11) 1-Methylnaphthalene	7.831	141	160754	2.42	ppm	79
12) Hexachlorocyclopentadiene	8.015	237	57044	3.65	ppm	97
15) Acenaphthylene	9.367	152	264051	3.52	ppm	93
16) Acenaphthene	9.733	153	127236	2.39	ppm	82
17) Dibenzofuran	10.077	168	247379	3.63	ppm	72
18) Fluorene	10.760	166	144977	2.30	ppm	87
19) 4,6-dinitro-2-methylph...	10.959	198	77090	18.37	ppm	87
20) n-nitrosodiphenylamine	11.083	169	115329	3.93	ppm	83
21) 1,2-Diphenylhydrazine	11.129	77	178150	3.18	ppm	95
24) Hexachlorobenzene	11.838	284	49028	2.42	ppm #	67
25) Pentachlorophenol	12.268	266	98586	11.97	ppm	70
26) Phenanthrene	12.630	178	235371	2.26	ppm	98
27) Anthracene	12.733	178	237821	2.48	ppm	97
28) Fluoranthene	14.936	202	258464	2.39	ppm	98
29) Pyrene	15.332	202	260974	2.39	ppm	99
31) Benzo[a]anthracene	17.450	228	177952	2.20	ppm	90
32) Chrysene	17.508	228	219042	2.37	ppm	96
34) Benzo[b]fluoranthene	19.110	252	208728	2.36	ppm	99
35) Benzo[k]fluoranthene	19.145	252	186489	2.37	ppm	89
36) Benzo[a]pyrene	19.559	252	183988	2.37	ppm	99
37) Indeno[1,2,3-cd]pyrene	20.975	276	199663m	2.19	ppm	
38) Dibenz[a,h]anthracene	21.013	278	164397	2.23	ppm	99
39) Benzo[g,h,i]perylene	21.263	276	184829	2.33	ppm	99

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 15:05:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

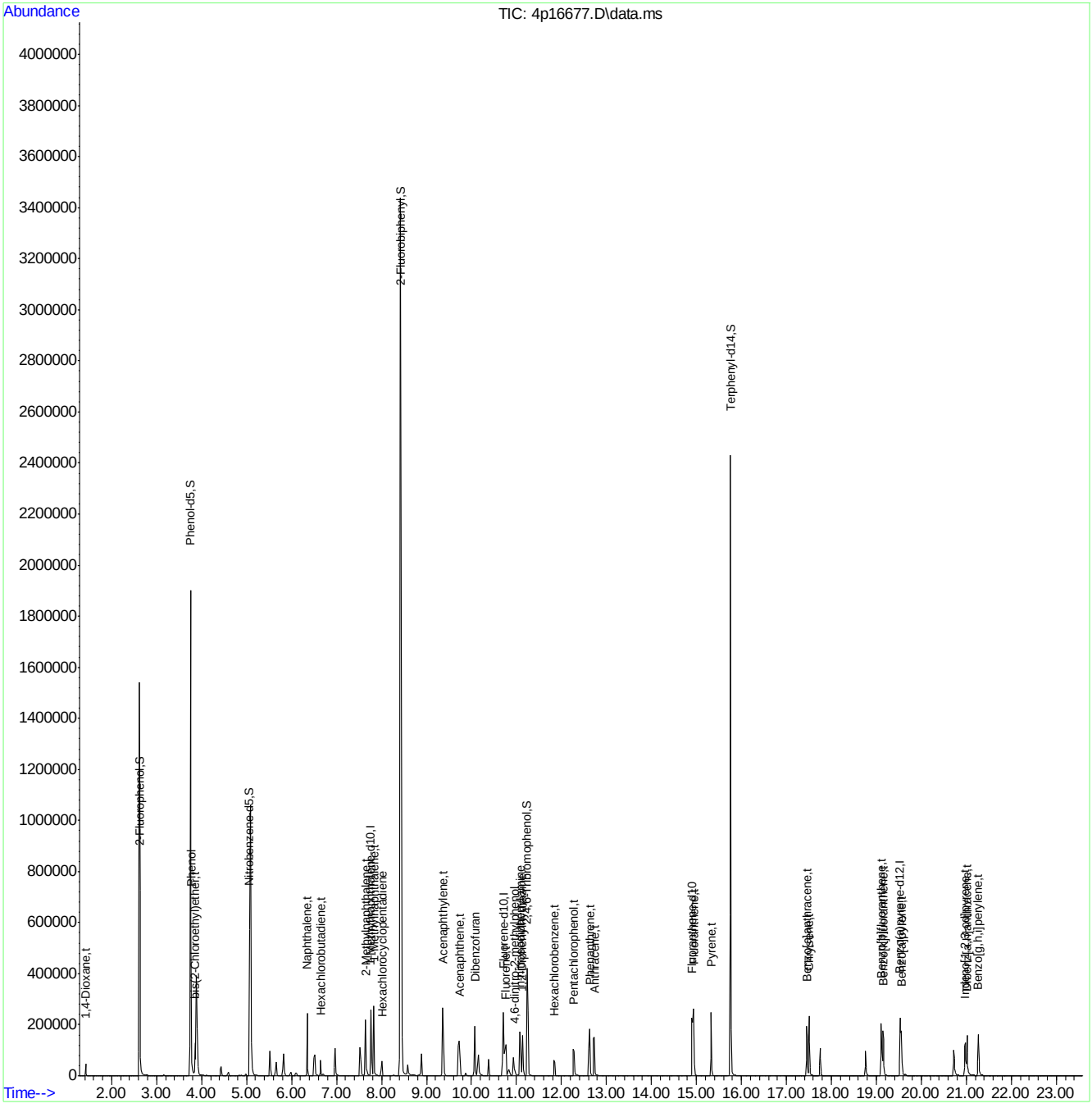
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 15:05:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

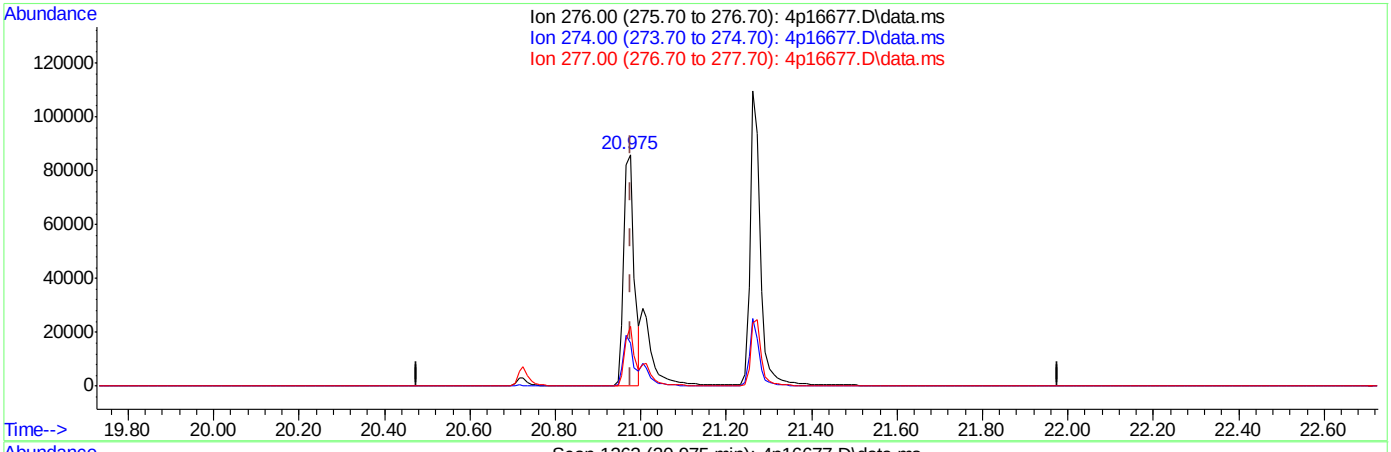
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16677.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 14:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

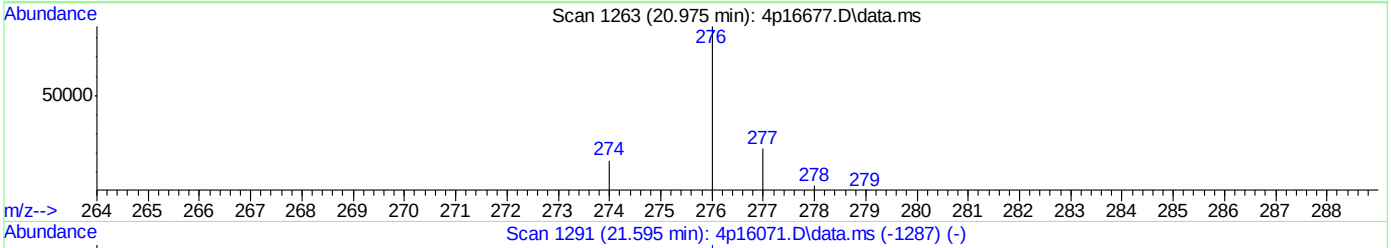
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

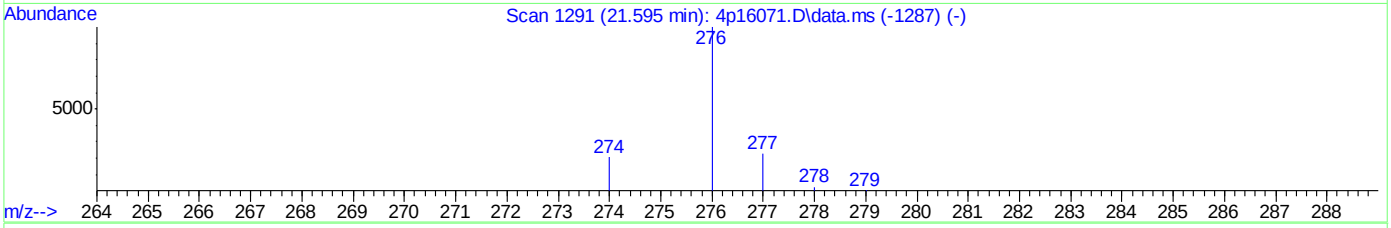
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 14:54:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16677.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 1.60ppm

response 146521

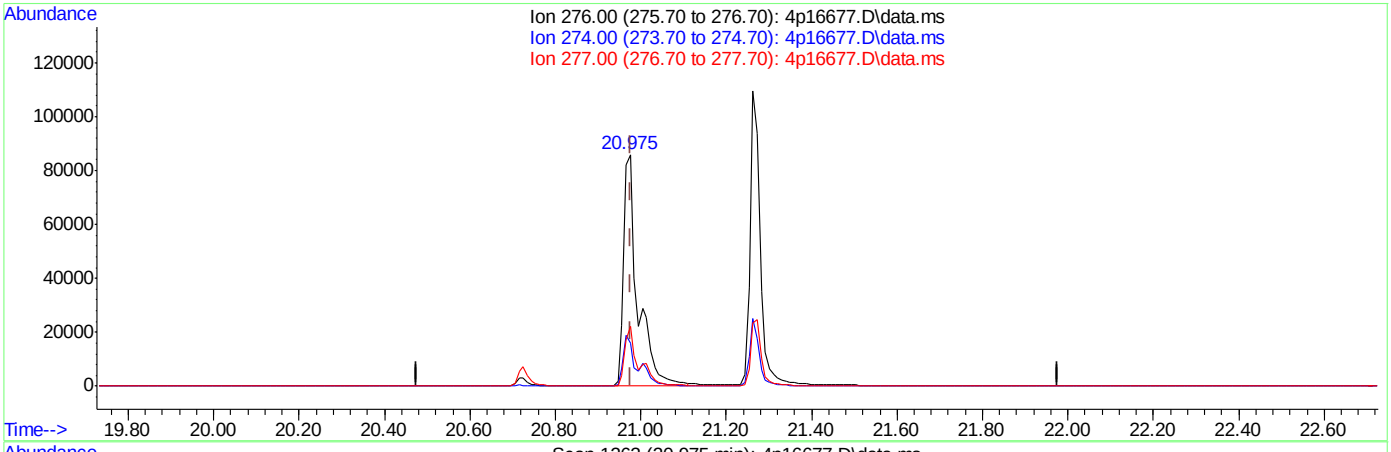
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.82
277.00	25.70	25.86
0.00	0.00	0.00

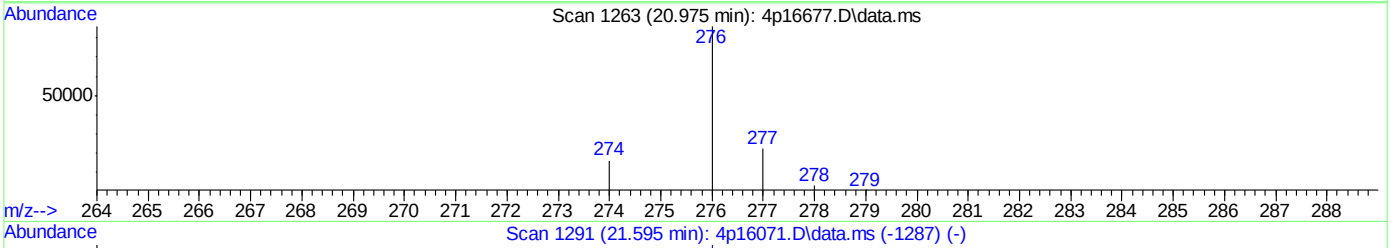
SGS ACCUTEST JC21229

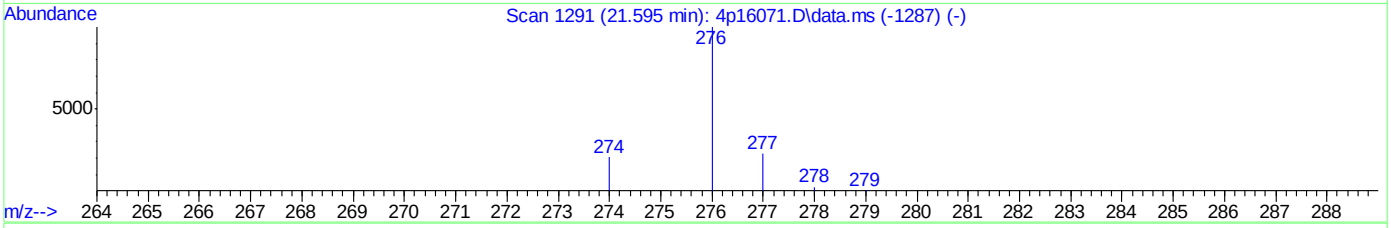
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 14:54:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16677.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 2.19ppm m

response 199663

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.72
277.00	25.70	25.95
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16678.D
Acq On : 6 Jun 2016 2:49 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 15:16:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.762	150	166306	4.00 ppm	0.00
13) Fluorene-d10	10.711	176	196073	4.00 ppm	0.00
23) Fluoranthene-d10	14.905	212	300747	4.00 ppm	0.00
33) Benzo(a)pyrene-d12	19.530	264	187947	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%	
14) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
22) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
30) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
5) Phenol	3.767	94	148801	3.48 ppm	# 85
19) 4,6-dinitro-2-methylph...	10.959	198	17477	4.31 ppm	93
25) Pentachlorophenol	12.272	266	26708	4.10 ppm	79

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

7.6.26

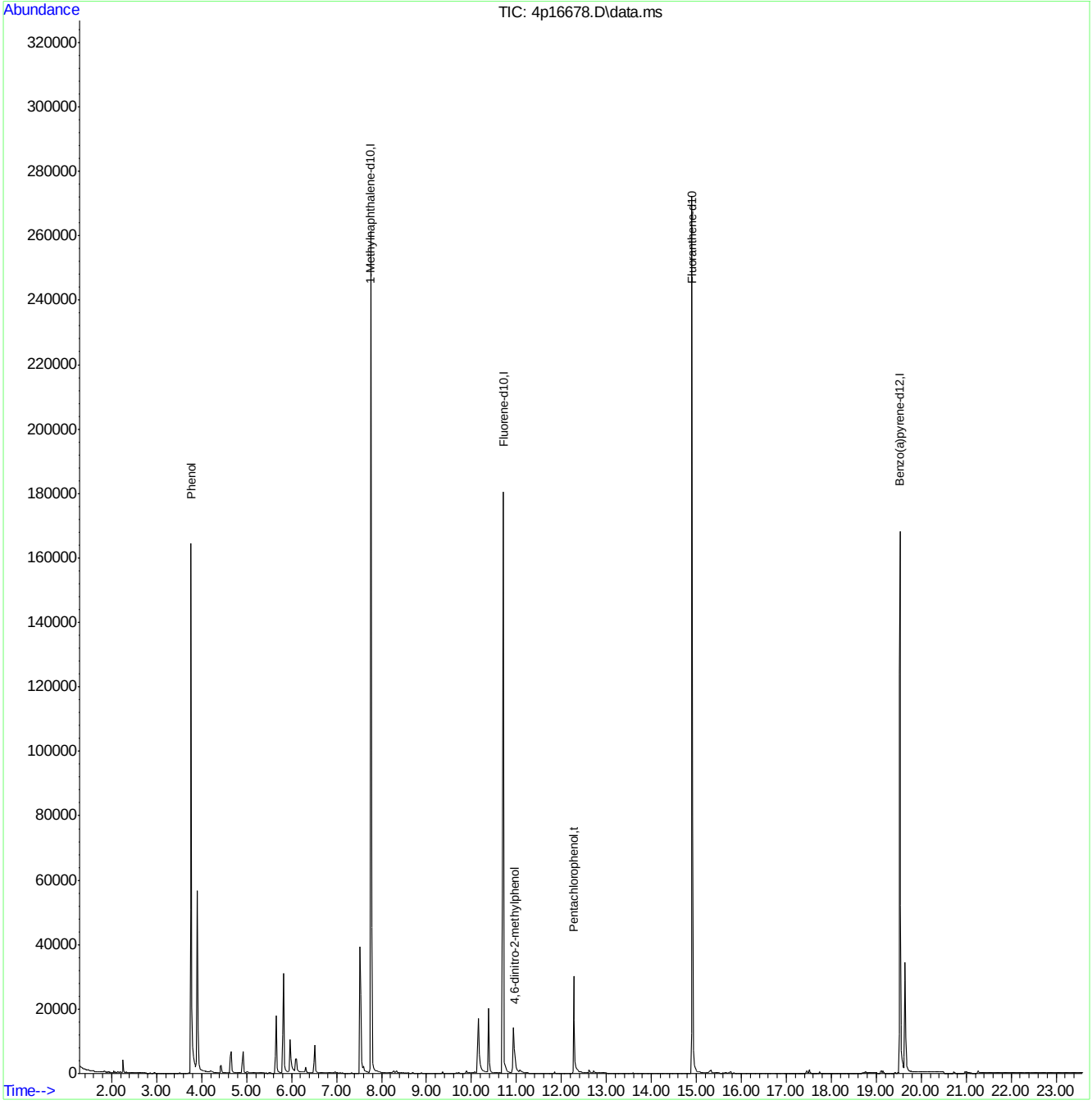
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16678.D
Acq On : 6 Jun 2016 2:49 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 15:16:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.762	150	201495	4.00 ppm	0.00
13) Fluorene-d10	10.711	176	243000	4.00 ppm	0.00
23) Fluoranthene-d10	14.905	212	334707	4.00 ppm	0.00
33) Benzo(a)pyrene-d12	19.528	264	191849	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%	
14) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
22) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
30) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.435	88	12653	0.81 ppm	# 36
6) bis(2-Chloroethyl)ether	3.854	93	40190	1.02 ppm	88
8) Naphthalene	6.344	128	134299	1.01 ppm	97
9) Hexachlorobutadiene	6.650	225	18643	0.82 ppm	94
10) 2-Methylnaphthalene	7.648	141	68316	0.96 ppm	94
15) Acenaphthylene	9.367	152	114643	1.22 ppm	98
16) Acenaphthene	9.733	153	63593	1.25 ppm	96
17) Dibenzofuran	10.077	168	114493	1.30 ppm	85
18) Fluorene	10.760	166	65851	1.05 ppm	97
20) n-nitrosodiphenylamine	11.083	169	48826	1.32 ppm	94
21) 1,2-Diphenylhydrazine	11.133	77	74009	1.17 ppm	82
24) Hexachlorobenzene	11.842	284	21911	1.12 ppm	74
26) Phenanthrene	12.616	178	111116	1.22 ppm	87
27) Anthracene	12.719	178	95184	1.08 ppm	91
28) Fluoranthene	14.939	202	108650	1.04 ppm	94
29) Pyrene	15.335	202	102873	1.07 ppm	94
31) Benzo[a]anthracene	17.454	228	83563	1.22 ppm	99
32) Chrysene	17.512	228	93836	1.13 ppm	96
34) Benzo[b]fluoranthene	19.114	252	59634	0.88 ppm	96
35) Benzo[k]fluoranthene	19.148	252	71250	1.21 ppm	94
36) Benzo[a]pyrene	19.551	252	62521	1.02 ppm	93
37) Indeno[1,2,3-cd]pyrene	20.969	276	66608m	0.98 ppm	
38) Dibenz[a,h]anthracene	21.017	278	54267	0.98 ppm	92
39) Benzo[g,h,i]perylene	21.267	276	63559	1.02 ppm	98

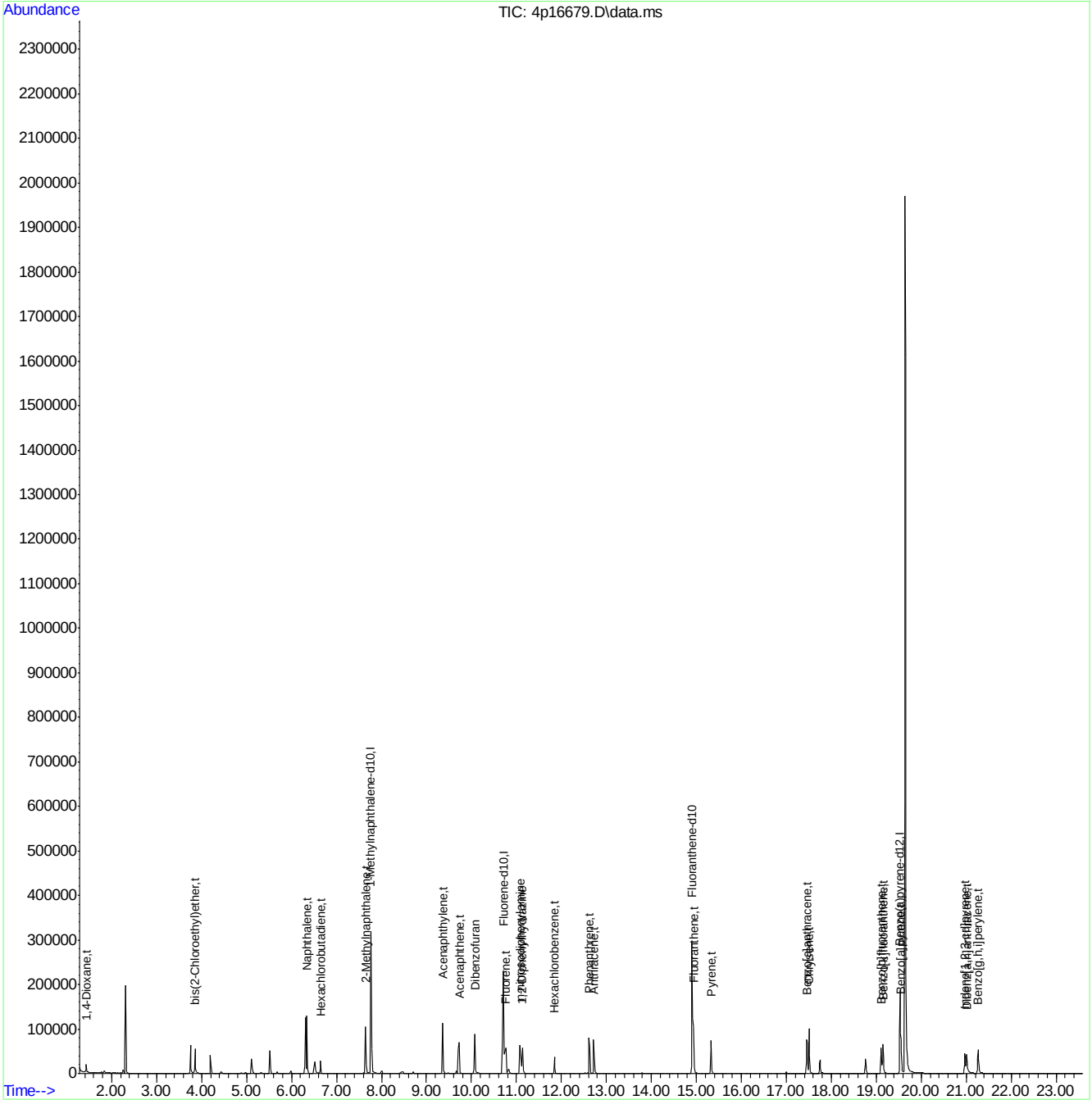
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.27
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 15:45:31 2016 Page: 2

Manual Integration Approval Summary

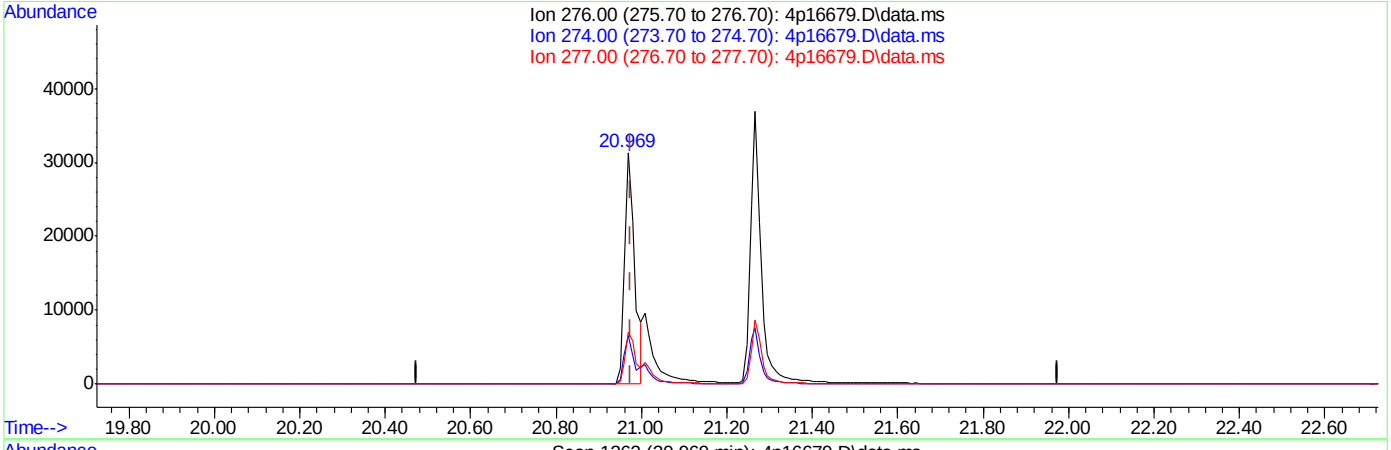
Sample Number:	E4P887-ICV887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16679.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 15:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

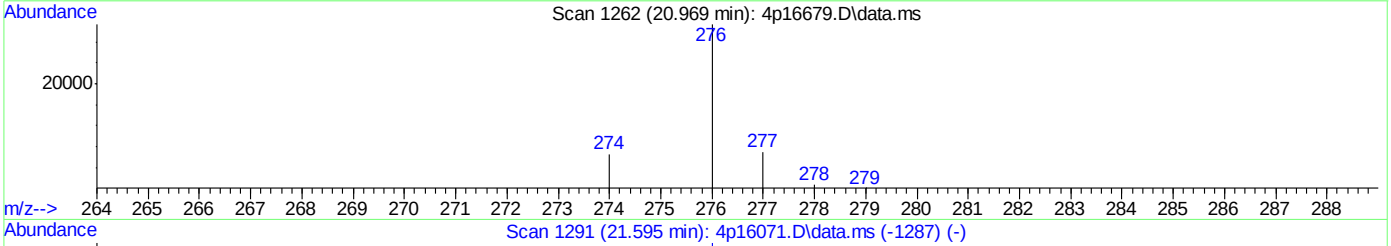
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

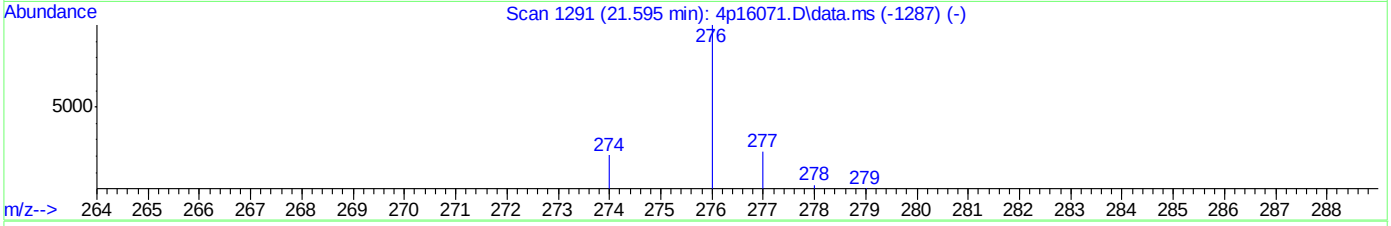
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:43:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration







TIC: 4p16679.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.006) 0.75ppm

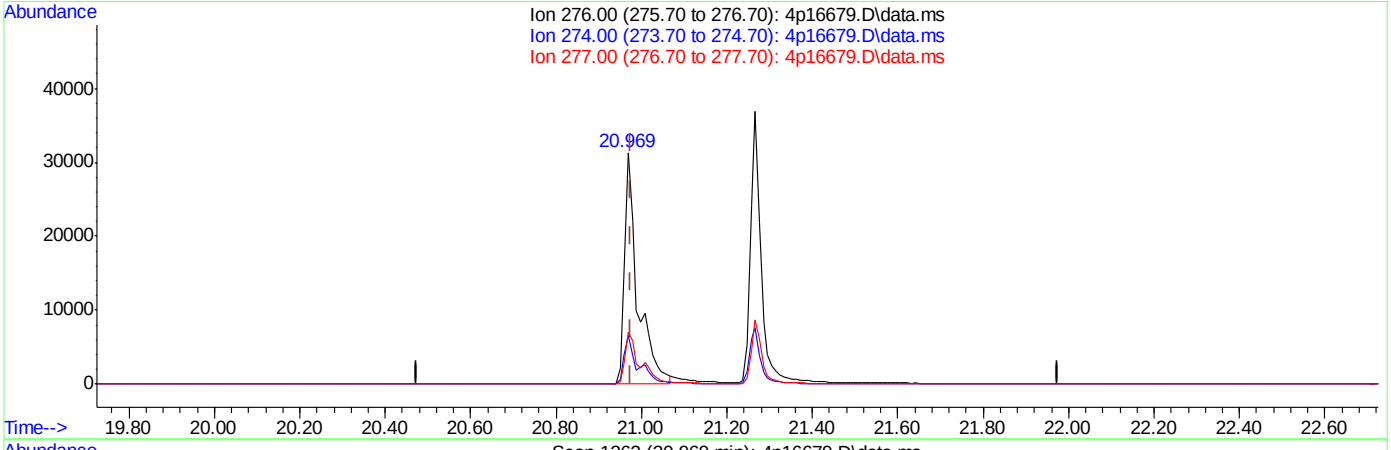
response 50960

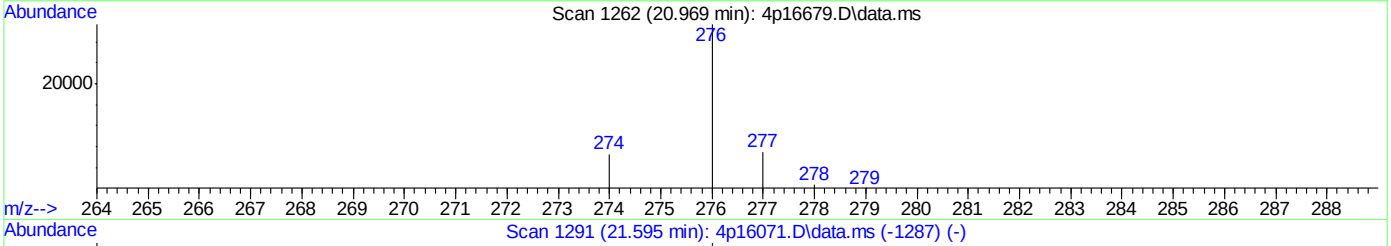
Ion	Exp%	Act%
276.00	100	100
274.00	18.70	19.88
277.00	24.90	21.87
0.00	0.00	0.00

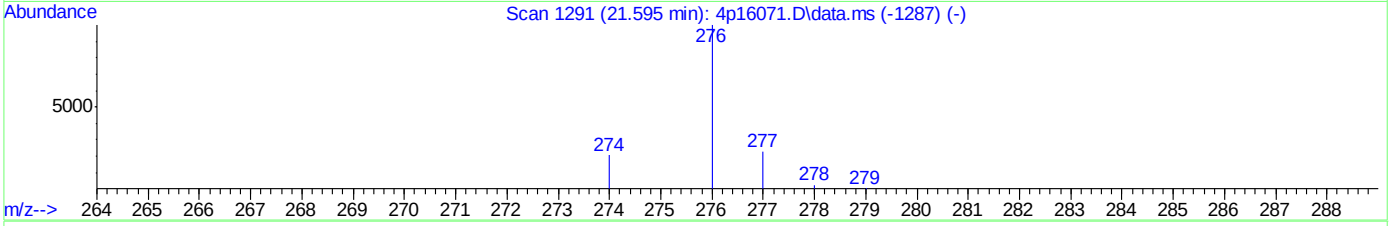
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:43:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration







TIC: 4p16679.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.006) 0.98ppm m

response 66608

Ion	Exp%	Act%
276.00	100	100
274.00	18.70	20.87
277.00	24.90	22.47
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16862.D
Acq On : 13 Jun 2016 9:43 am
Operator : linseyk
Sample : cc887-1
Misc : op94546a,e4p896
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 10:07:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 13 10:03:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.717	150	168592	4.00	ppm	-0.05
13) Fluorene-d10	10.661	176	179722	4.00	ppm	-0.05
23) Fluoranthene-d10	14.867	212	293144	4.00	ppm	-0.03
33) Benzo(a)pyrene-d12	19.490	264	209783	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	2.588	112	433798	18.78	ppm	-0.07
Spiked Amount 50.000			Recovery = 37.56%			
4) Phenol-d5	3.716	99	703793	18.05	ppm	-0.03
Spiked Amount 50.000			Recovery = 36.10%			
7) Nitrobenzene-d5	5.026	82	598317	21.02	ppm	-0.04
Spiked Amount 50.000			Recovery = 42.04%			
14) 2-Fluorobiphenyl	8.381	172	1177512	24.40	ppm	-0.05
Spiked Amount 50.000			Recovery = 48.80%			
22) 2,4,6-Tribromophenol	11.192	330	161972	32.62	ppm	-0.04
Spiked Amount 50.000			Recovery = 65.24%			
30) Terphenyl-d14	15.710	244	939047	25.56	ppm	-0.05
Spiked Amount 50.000			Recovery = 51.12%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.395	88	11097	0.85	ppm #	66
5) Phenol	3.733	94	181795	4.19	ppm #	85
6) bis(2-Chloroethyl)ether	3.819	93	22856	0.69	ppm #	26
8) Naphthalene	6.287	128	90351	0.81	ppm	97
9) Hexachlorobutadiene	6.593	225	15935	0.84	ppm	97
10) 2-Methylnaphthalene	7.602	141	55180	0.93	ppm	75
11) 1-Methylnaphthalene	7.785	141	49172	0.67	ppm	75
12) Hexachlorocyclopentadiene	7.946	237	21112	1.82	ppm	83
15) Acenaphthylene	9.321	152	85233	1.22	ppm	92
16) Acenaphthene	9.664	153	65389	1.74	ppm #	71
17) Dibenzofuran	10.031	168	75923	1.17	ppm	66
18) Fluorene	10.686	166	56627	1.22	ppm #	54
19) 4,6-dinitro-2-methylph...	10.909	198	24917	6.24	ppm	88
20) n-nitrosodiphenylamine	11.033	169	49112	1.79	ppm	87
21) 1,2-Diphenylhydrazine	11.058	77	46036	0.99	ppm	83
24) Hexachlorobenzene	11.786	284	19415	1.13	ppm	98
25) Pentachlorophenol	12.234	266	33836	5.24	ppm	99
26) Phenanthrene	12.578	178	93437	1.17	ppm	97
27) Anthracene	12.664	178	96098	1.25	ppm	89
28) Fluoranthene	14.884	202	99262	1.08	ppm	98
29) Pyrene	15.280	202	103417	1.23	ppm	97
31) Benzo[a]anthracene	17.412	228	75150	1.26	ppm	94
32) Chrysene	17.470	228	87894	1.21	ppm	93
34) Benzo[b]fluoranthene	19.076	252	78447	1.06	ppm	95
35) Benzo[k]fluoranthene	19.110	252	81446	1.27	ppm	93
36) Benzo[a]pyrene	19.513	252	76119	1.13	ppm	94
37) Indeno[1,2,3-cd]pyrene	20.936	276	84196	1.13	ppm	98
38) Dibenz[a,h]anthracene	20.975	278	67155	1.11	ppm	97
39) Benzo[g,h,i]perylene	21.234	276	75513	1.11	ppm	97

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16862.D
Acq On : 13 Jun 2016 9:43 am
Operator : linseyk
Sample : cc887-1
Misc : op94546a,e4p896
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 10:07:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 13 10:03:00 2016
Response via : Initial Calibration

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

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

7.6.28

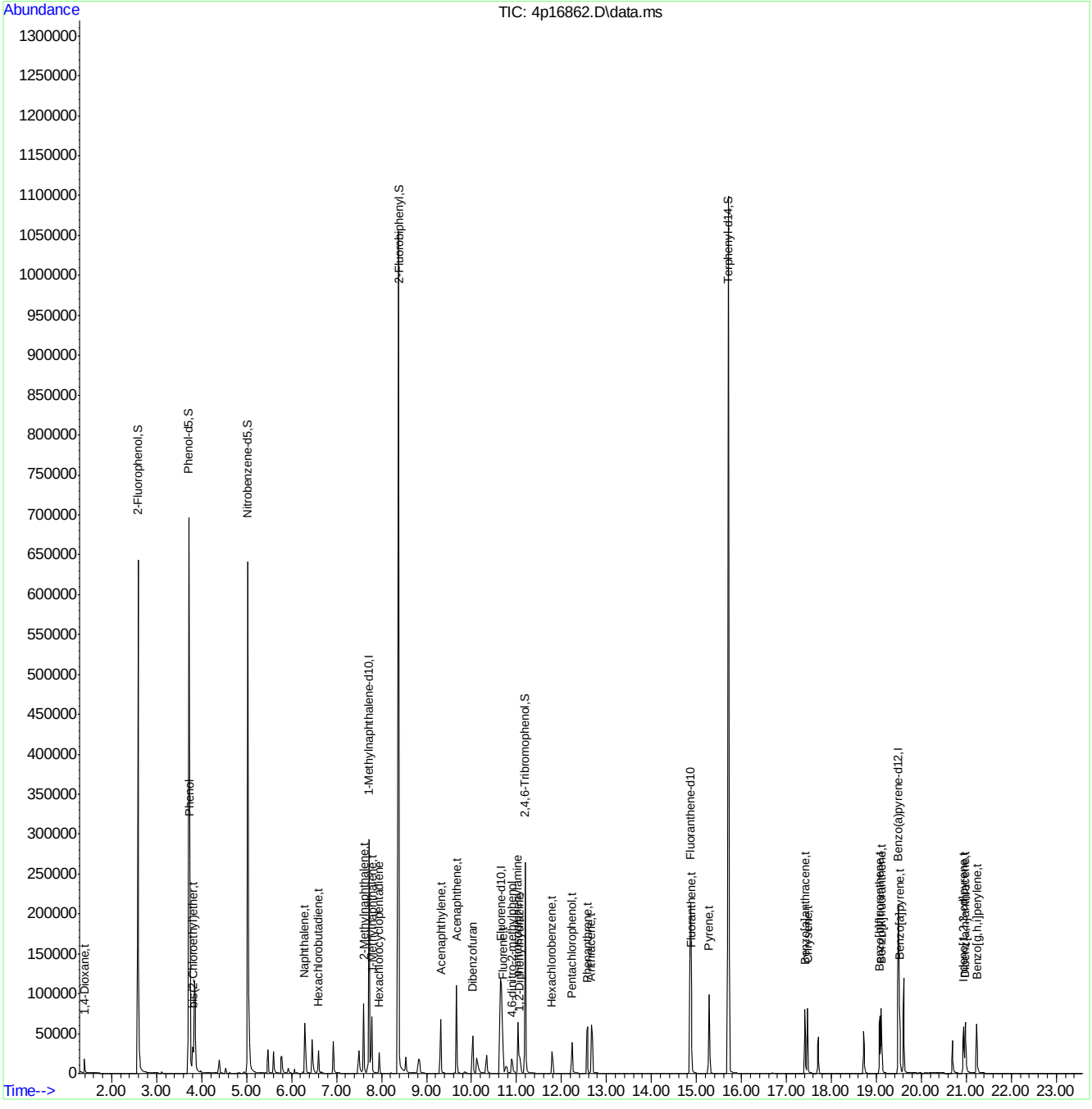
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P896\
Data File : 4p16862.D
Acq On : 13 Jun 2016 9:43 am
Operator : linseyk
Sample : cc887-1
Misc : op94546a,e4p896
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 13 10:07:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 13 10:03:00 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 13 11:19:39 2016 Page: 3

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	579980	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2376057	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1358066	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2403780	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	2318295	40.00	ppm	0.00
92) Perylene-d12	16.604	264	2248542	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	579980	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1358066	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2403780	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	2318295	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2376057	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	2318295	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	47403	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
8) Phenol-d5	4.569	99	61107	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
25) Nitrobenzene-d5	5.324	82	57208	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
51) 2-Fluorobiphenyl	7.217	172	93452	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
73) 2,4,6-Tribromophenol	9.244	330	13234	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
85) Terphenyl-d14	12.860	244	104394	2.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	21972	2.00	ppm	96
3) Pyridine	2.772	79	54572	2.00	ppm	98
4) N-Nitrosodimethylamine	2.735	74	35013	2.00	ppm	95
6) Indene	5.072	116	84063	2.00	ppm	96
7) Cumene	4.259	105	121434	2.00	ppm	97
9) Phenol	4.580	94	64897	2.00	ppm	88
10) Aniline	4.607	93	78978	2.00	ppm	93
11) bis(2-Chloroethyl)ether	4.655	93	47512	2.00	ppm	95
12) 2-Chlorophenol	4.698	128	47141	2.00	ppm	99
13) Decane	4.730	43	65348	2.00	ppm	87
14) 1,3-Dichlorobenzene	4.821	146	50573	2.00	ppm	95
15) 1,4-Dichlorobenzene	4.880	146	50695	2.00	ppm	92
16) Benzyl alcohol	4.971	108	32221	2.00	ppm	96
17) 1,2-Dichlorobenzene	5.003	146	49526	2.00	ppm	98
18) Acetophenone	5.190	105	71785	2.00	ppm	85
19) 2-Methylphenol	5.056	108	44763	2.00	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.083	121	17370	2.00	ppm #	69

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.179	108	48883	2.00	ppm		97
22) n-Nitroso-di-n-propyla...	5.184	70	42997	2.00	ppm		92
23) Hexachloroethane	5.286	201	14771	2.00	ppm	#	73
26) Nitrobenzene	5.340	77	60230	2.00	ppm		95
27) Quinoline	6.367	129	93672	2.00	ppm		96
28) Isophorone	5.548	82	100868	2.00	ppm		94
29) 2-Nitrophenol	5.623	139	24261	2.00	ppm		97
30) 2,4-Dimethylphenol	5.650	107	43453	2.00	ppm		96
31) Benzoic acid	5.693	105	16933	2.00	ppm	#	48
32) bis(2-Chloroethoxy)met...	5.746	93	59253	2.00	ppm		98
33) 2,4-Dichlorophenol	5.848	162	35808	2.00	ppm		97
34) 2,6-Dichlorophenol	6.072	162	35395	2.00	ppm		99
35) 1,3,5-Trichlorobenzene	5.634	180	41596	2.00	ppm		92
36) 1,2,4-Trichlorobenzene	5.939	180	37463	2.00	ppm		92
37) 1,2,3-Trichlorobenzene	6.163	180	37794	2.00	ppm		99
38) Naphthalene	6.019	128	148396	2.00	ppm		98
39) 4-Chloroaniline	6.067	127	59938	2.00	ppm		96
40) 2,3-Dichloroaniline	7.110	161	45039	2.00	ppm		99
41) Caprolactam	6.415	55	22520	2.00	ppm		94
42) Hexachlorobutadiene	6.142	225	19595	2.00	ppm		95
43) 4-Chloro-3-methylphenol	6.580	107	45145	2.00	ppm		95
44) 2-Methylnaphthalene	6.773	141	80082	2.00	ppm		94
45) 1-Methylnaphthalene	6.891	141	78772	2.00	ppm		98
46) Dimethylnaphthalene	7.549	156	81062	2.00	ppm		96
48) Hexachlorocyclopentadiene	6.955	237	34528	4.00	ppm		98
49) 2,4,6-Trichlorophenol	7.105	196	22700	2.00	ppm		94
50) 2,4,5-Trichlorophenol	7.147	196	24622	2.00	ppm		96
52) 2-Chloronaphthalene	7.367	162	83781	2.00	ppm		95
53) Biphenyl	7.345	154	112833	2.00	ppm		98
54) 2-Nitroaniline	7.495	65	28103	2.00	ppm		96
55) Dimethylphthalate	7.752	163	96270	2.00	ppm		100
56) Acenaphthylene	7.912	152	139581	2.00	ppm		98
57) 2,6-Dinitrotoluene	7.827	165	16499	2.00	ppm		90
58) 3-Nitroaniline	8.051	138	22854	2.00	ppm		98
59) Acenaphthene	8.153	153	90069	2.00	ppm		96
60) 2,4-Dinitrophenol	8.196	184	4425	4.00	ppm		88
61) 4-Nitrophenol	8.287	109	13956	2.00	ppm		93
62) Dibenzofuran	8.394	168	121972	2.00	ppm		96
63) 2,4-Dinitrotoluene	8.383	165	24838	2.00	ppm		84
64) 2,3,4,6-Tetrachlorophenol	8.570	232	18355	2.00	ppm		86
65) Diethylphthalate	8.763	149	102464	2.00	ppm		94
66) Fluorene	8.891	166	103523	2.00	ppm		97
67) 4-Chlorophenyl-phenyle...	8.912	204	46867	2.00	ppm		89
68) 4-Nitroaniline	8.918	138	27846	2.00	ppm		96
70) 4,6-Dinitro-2-methylph...	8.971	198	4669	2.00	ppm	#	43
71) n-Nitrosodiphenylamine	9.084	169	69803	2.00	ppm		98
72) 1,2-Diphenylhydrazine	9.142	77	129635	2.00	ppm		94
74) 4-Bromophenyl-phenylether	9.640	248	26583	2.00	ppm		91
75) Hexachlorobenzene	9.699	284	26797	2.00	ppm		89
76) Pentachlorophenol	10.009	266	31175	4.00	ppm		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.335	178	151926	2.00	ppm	98
78) Anthracene	10.410	178	155434	2.00	ppm	97
79) Carbazole	10.678	167	141967	2.00	ppm	99
80) Di-n-butylphthalate	11.314	149	184323	2.00	ppm	99
81) Fluoranthene	12.197	202	165745	2.00	ppm	90
82) Octadecane	10.239	57	80524	2.00	ppm	91
84) Pyrene	12.550	202	171256	2.00	ppm	98
86) Butylbenzylphthalate	13.699	149	83601	2.00	ppm	91
87) Butyl stearate	13.865	56	61342	2.00	ppm	95
88) Benzo[a]anthracene	14.475	228	156992	2.00	ppm	96
89) 3,3'-Dichlorobenzidine	14.475	252	53366	2.00	ppm	96
90) Chrysene	14.529	228	145599	2.00	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.657	149	140227	2.00	ppm	97
93) Di-n-octylphthalate	15.652	149	193568	2.00	ppm	100
94) Benzo[b]fluoranthene	16.074	252	152950	2.00	ppm	78
95) Benzo[k]fluoranthene	16.112	252	153254	2.00	ppm	94
96) Benzo[a]pyrene	16.518	252	134524	2.00	ppm	97
97) Indeno[1,2,3-cd]pyrene	17.994	276	132876	2.00	ppm	94
98) Dibenz(a,h)acridine	17.690	279	126859	2.00	ppm	98
99) Dibenz[a,h]anthracene	18.037	278	150150	2.00	ppm	94
100) 7,12-Dimethylbenz(a)an...	16.074	256	59736	2.00	ppm	94
101) Benzo[g,h,i]perylene	18.374	276	143768	2.00	ppm	92

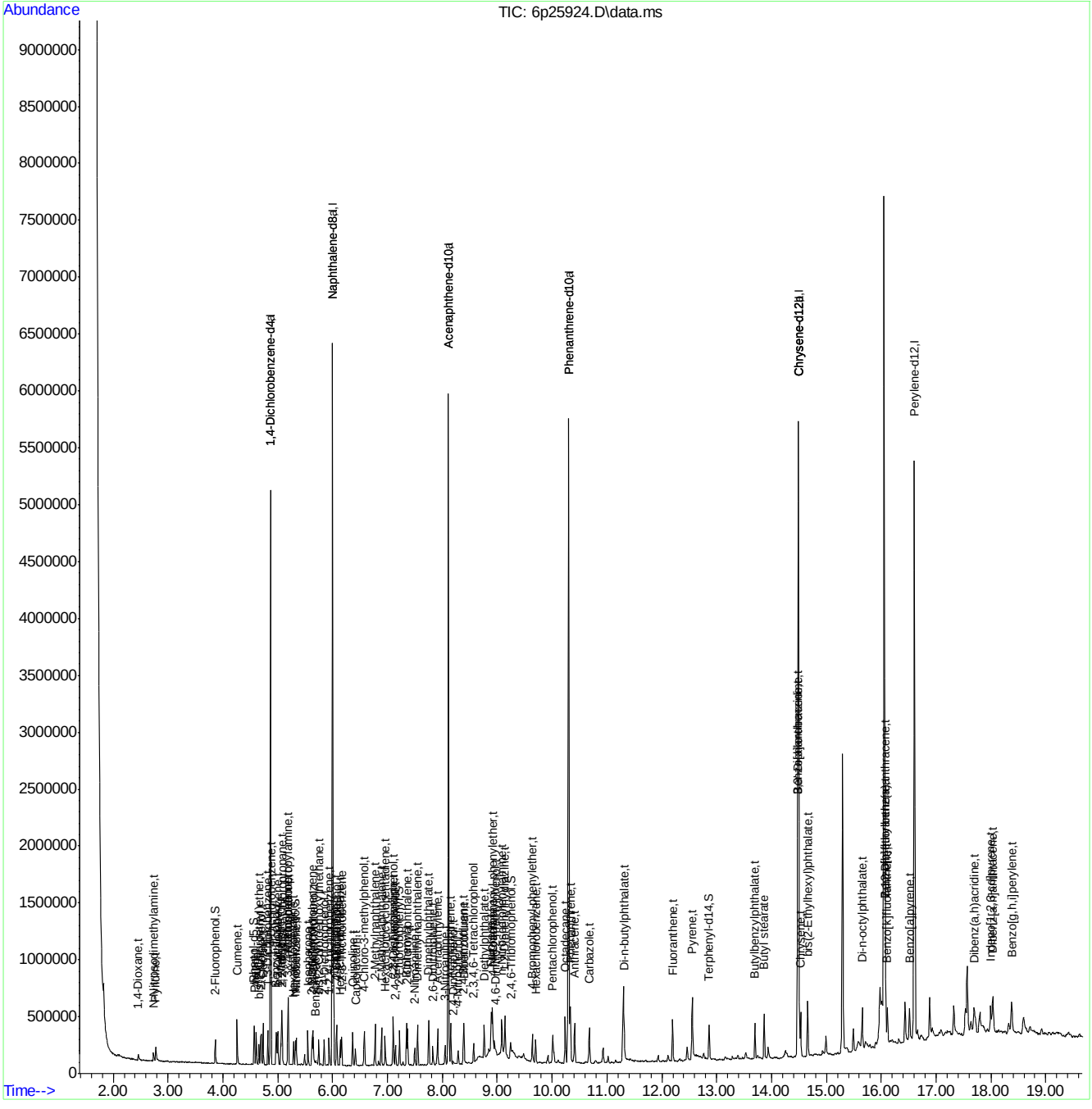
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25924.D
Acq On : 13 May 2016 9:24 am
Operator : ariellec
Sample : ic1209-2
Misc : op93693,e6p1209
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 09:55:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 09:48:02 2016
QLast Update : Fri May 13 09:52:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	566988	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2299226	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1288121	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2112725	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1996516	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1980514	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	566988	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1288121	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2112725	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1996516	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2299226	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1996516	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	23612	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
8) Phenol-d5	4.564	99	30351	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
25) Nitrobenzene-d5	5.323	82	27240	0.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.96%	
51) 2-Fluorobiphenyl	7.217	172	46914	1.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.12%	
73) 2,4,6-Tribromophenol	9.239	330	4802	0.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.66%	
85) Terphenyl-d14	12.860	244	43011	0.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.92%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.456	88	13113	1.22	ppm	89
3) Pyridine	2.777	79	26230	0.98	ppm	98
4) N-Nitrosodimethylamine	2.740	74	14932	0.87	ppm	94
6) Indene	5.072	116	43180	1.05	ppm	97
7) Cumene	4.259	105	60667	1.02	ppm	98
9) Phenol	4.575	94	32281	1.02	ppm	94
10) Aniline	4.607	93	40537	1.05	ppm	88
11) bis(2-Chloroethyl)ether	4.655	93	23016	0.99	ppm	95
12) 2-Chlorophenol	4.698	128	24100	1.05	ppm	94
13) Decane	4.730	43	33816	1.06	ppm	85
14) 1,3-Dichlorobenzene	4.821	146	25190	1.02	ppm	85
15) 1,4-Dichlorobenzene	4.879	146	26070	1.05	ppm	97
16) Benzyl alcohol	4.970	108	16314	1.04	ppm	93
17) 1,2-Dichlorobenzene	5.002	146	26380	1.09	ppm	95
18) Acetophenone	5.190	105	35296	1.01	ppm	83
19) 2-Methylphenol	5.056	108	23812	1.09	ppm	91
20) 2,2'-oxybis(1-Chloropr...	5.083	121	8812	1.04	ppm #	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.179	108	24391	1.02	ppm		94
22) n-Nitroso-di-n-propyla...	5.184	70	21486	1.02	ppm		88
23) Hexachloroethane	5.286	201	7641	1.06	ppm	#	76
26) Nitrobenzene	5.339	77	28794	0.99	ppm		89
27) Quinoline	6.366	129	47233	1.04	ppm		97
28) Isophorone	5.548	82	52172	1.07	ppm		94
29) 2-Nitrophenol	5.623	139	12317	1.05	ppm		90
30) 2,4-Dimethylphenol	5.650	107	22550	1.07	ppm		97
31) Benzoic acid	5.682	105	7614	0.93	ppm	#	61
32) bis(2-Chloroethoxy)met...	5.746	93	28978	1.01	ppm		98
33) 2,4-Dichlorophenol	5.848	162	18300	1.06	ppm		97
34) 2,6-Dichlorophenol	6.072	162	17149	1.00	ppm		99
35) 1,3,5-Trichlorobenzene	5.634	180	19936	0.99	ppm		96
36) 1,2,4-Trichlorobenzene	5.933	180	19329	1.07	ppm		91
37) 1,2,3-Trichlorobenzene	6.163	180	18563	1.02	ppm		98
38) Naphthalene	6.019	128	74428	1.04	ppm		95
39) 4-Chloroaniline	6.067	127	30616	1.06	ppm		92
40) 2,3-Dichloroaniline	7.110	161	23004	1.06	ppm		98
41) Caprolactam	6.409	55	12359	1.13	ppm		84
42) Hexachlorobutadiene	6.142	225	9482	1.00	ppm		95
43) 4-Chloro-3-methylphenol	6.575	107	21610	0.99	ppm		96
44) 2-Methylnaphthalene	6.773	141	37153	0.96	ppm		97
45) 1-Methylnaphthalene	6.885	141	39458	1.04	ppm		99
46) Dimethylnaphthalene	7.548	156	39345	1.00	ppm		96
48) Hexachlorocyclopentadiene	6.955	237	16791	2.05	ppm		97
49) 2,4,6-Trichlorophenol	7.104	196	10580	0.98	ppm		93
50) 2,4,5-Trichlorophenol	7.147	196	11991	1.03	ppm		83
52) 2-Chloronaphthalene	7.367	162	41372	1.04	ppm		98
53) Biphenyl	7.345	154	55575	1.04	ppm		97
54) 2-Nitroaniline	7.495	65	11894	0.89	ppm		95
55) Dimethylphthalate	7.752	163	48709	1.07	ppm		99
56) Acenaphthylene	7.912	152	64788	0.98	ppm		96
57) 2,6-Dinitrotoluene	7.827	165	7787	1.00	ppm		97
58) 3-Nitroaniline	8.051	138	10486	0.97	ppm		98
59) Acenaphthene	8.153	153	43718	1.02	ppm		98
60) 2,4-Dinitrophenol	8.196	184	1182	1.13	ppm	#	89
61) 4-Nitrophenol	8.287	109	5934	0.90	ppm		91
62) Dibenzofuran	8.393	168	59023	1.02	ppm		95
63) 2,4-Dinitrotoluene	8.383	165	9381	0.80	ppm		85
64) 2,3,4,6-Tetrachlorophenol	8.570	232	7761	0.89	ppm		88
65) Diethylphthalate	8.763	149	46699	0.96	ppm		94
66) Fluorene	8.891	166	45220	0.92	ppm		98
67) 4-Chlorophenyl-phenyle...	8.912	204	21220	0.95	ppm		94
68) 4-Nitroaniline	8.918	138	11515	0.87	ppm		83
70) 4,6-Dinitro-2-methylph...	8.966	198	1815	0.88	ppm	#	42
71) n-Nitrosodiphenylamine	9.083	169	31641	1.03	ppm		96
72) 1,2-Diphenylhydrazine	9.142	77	54879	0.96	ppm		95
74) 4-Bromophenyl-phenylether	9.640	248	11231	0.96	ppm		92
75) Hexachlorobenzene	9.699	284	12886	1.09	ppm		88
76) Pentachlorophenol	10.009	266	9638	1.41	ppm		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration

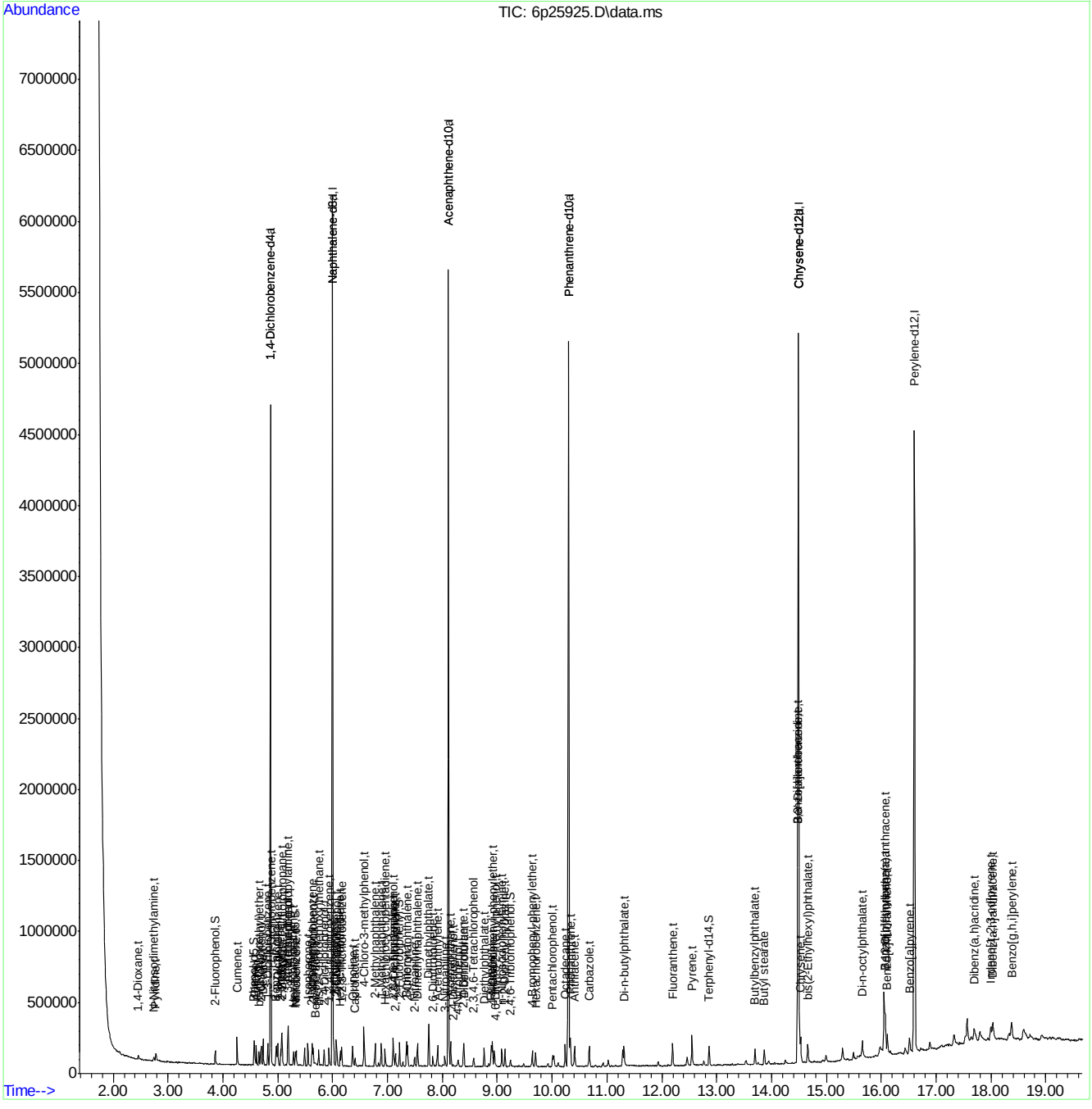
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.335	178	68702	1.03 ppm	98
78) Anthracene	10.410	178	63105	0.92 ppm	97
79) Carbazole	10.677	167	61801	0.99 ppm	97
80) Di-n-butylphthalate	11.308	149	72215	0.89 ppm	100
81) Fluoranthene	12.196	202	71208	0.98 ppm	88
82) Octadecane	10.239	57	29902	0.84 ppm	90
84) Pyrene	12.549	202	73794	1.00 ppm	97
86) Butylbenzylphthalate	13.699	149	28786	0.80 ppm	94
87) Butyl stearate	13.865	56	18703	0.71 ppm	89
88) Benzo[a]anthracene	14.475	228	68463	1.01 ppm	99
89) 3,3'-Dichlorobenzidine	14.475	252	20159	0.88 ppm	90
90) Chrysene	14.528	228	63469	1.01 ppm	98
91) bis(2-Ethylhexyl)phtha...	14.657	149	42023	0.70 ppm	93
93) Di-n-octylphthalate	15.652	149	67141	0.79 ppm	93
94) Benzo[b]fluoranthene	16.074	252	68557	1.02 ppm	77
95) Benzo[k]fluoranthene	16.112	252	67315	1.00 ppm	91
96) Benzo[a]pyrene	16.518	252	56778	0.96 ppm	95
97) Indeno[1,2,3-cd]pyrene	17.994	276	58756m	1.00 ppm	
98) Dibenz(a,h)acridine	17.695	279	50583	0.91 ppm	96
99) Dibenz[a,h]anthracene	18.037	278	59927	0.91 ppm	95
100) 7,12-Dimethylbenz(a)an...	16.074	256	25262	0.96 ppm	98
101) Benzo[g,h,i]perylene	18.374	276	61962	0.98 ppm	81

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration



Manual Integration Approval Summary

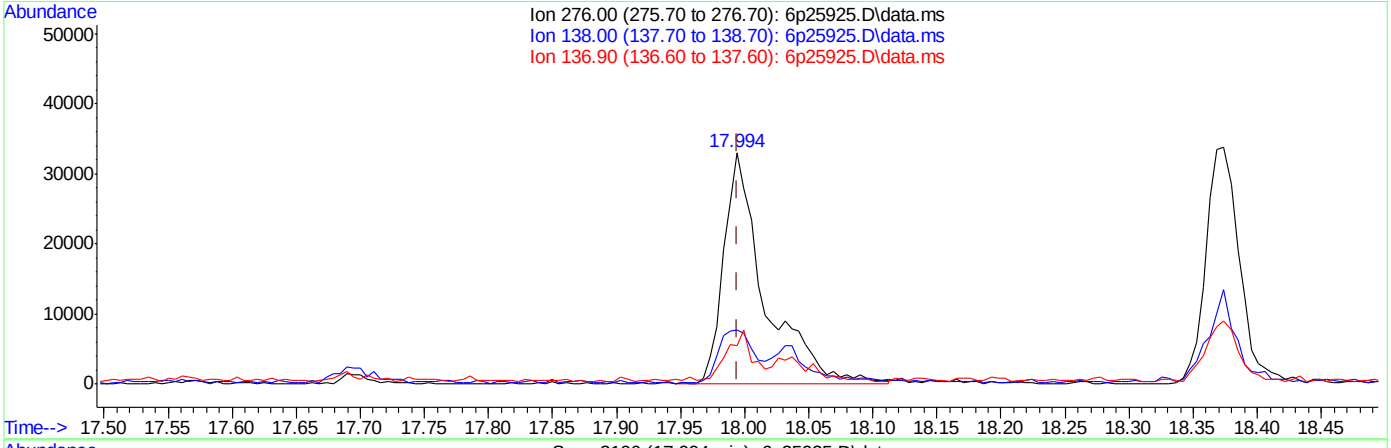
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25925.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 09:53	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

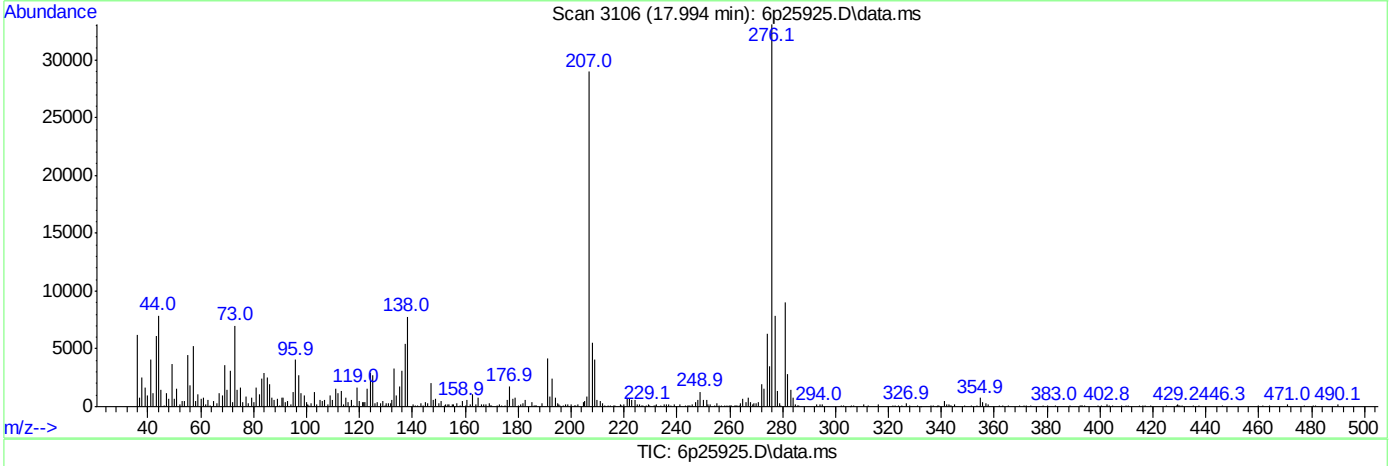
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.99	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration





TIC: 6p25925.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.994min (-0.000) 1.26ppm

response 73871

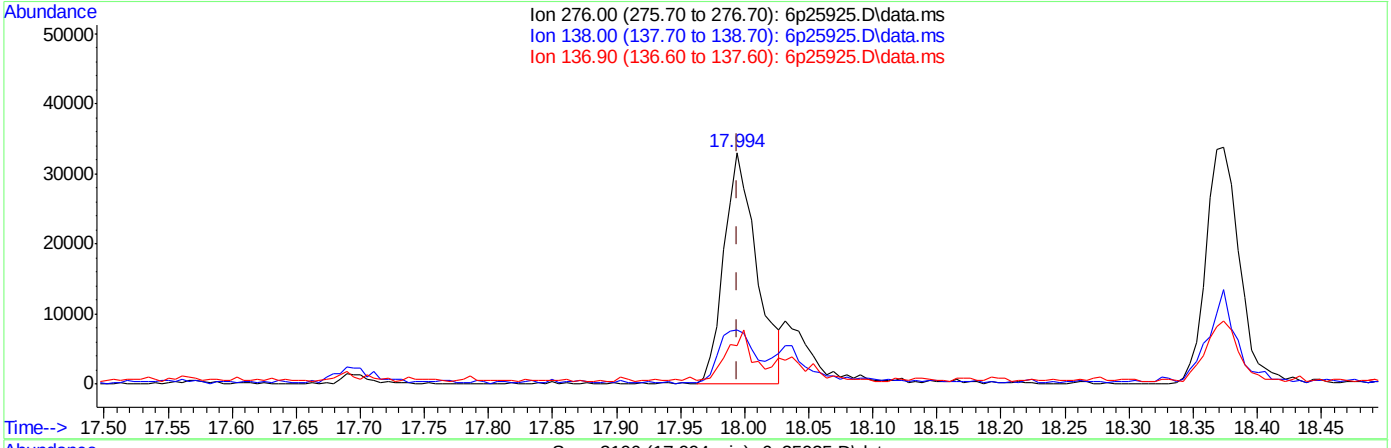
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	22.73
136.90	14.60	14.95
0.00	0.00	0.00

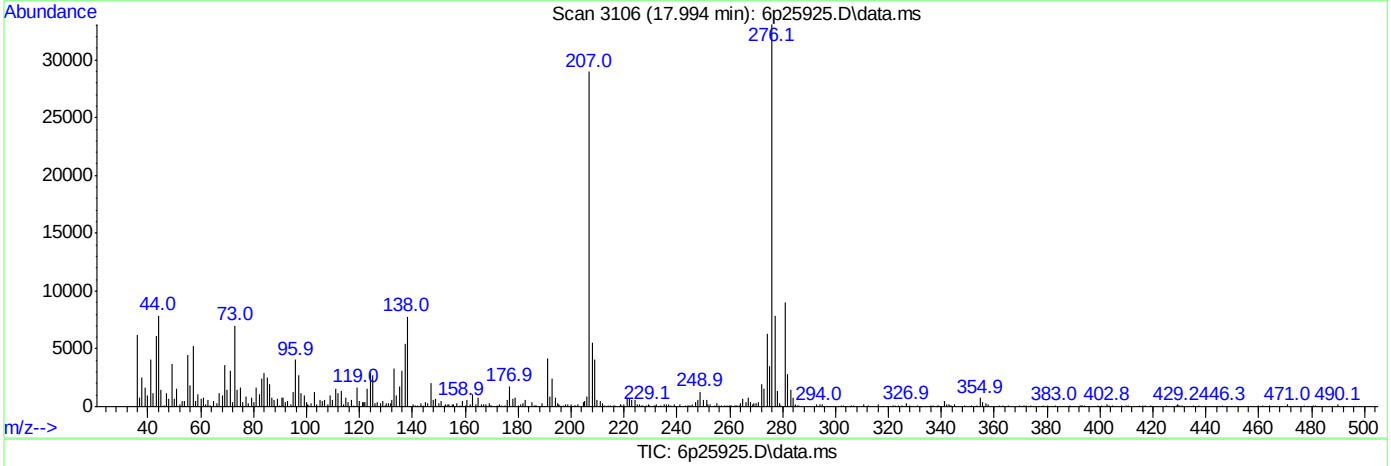
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25925.D
Acq On : 13 May 2016 9:53 am
Operator : ariellec
Sample : ic1209-1
Misc : op93693,e6p1209
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 10:15:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:14:54 2016
QLast Update : Fri May 13 10:14:54 2016
Response via : Initial Calibration





TIC: 6p25925.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.994min (-0.000) 1.00ppm m

response 58756

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	23.53
136.90	14.60	16.57
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	566562	40.00	ppm	0.00
24) Naphthalene-d8	6.003	136	2464993	40.00	ppm	0.00
47) Acenaphthene-d10	8.115	164	1389288	40.00	ppm	0.00
69) Phenanthrene-d10	10.308	188	2293395	40.00	ppm	0.00
83) Chrysene-d12	14.507	240	2196112	40.00	ppm	0.02
92) Perylene-d12	16.614	264	2189435	40.00	ppm	0.01
102) 1,4-Dichlorobenzene-d4a	4.869	152	566562	40.00	ppm	0.00
104) Acenaphthene-d10a	8.115	164	1389288	40.00	ppm	0.00
106) Phenanthrene-d10a	10.308	188	2293395	40.00	ppm	0.00
110) Chrysene-d12a	14.507	240	2196112	40.00	ppm	0.02
112) Naphthalene-d8a	6.003	136	2464993	40.00	ppm	0.00
114) Chrysene-d12b	14.507	240	2196112	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.869	112	2055112	87.92	ppm	0.01
Spiked Amount 50.000			Recovery	=	175.84%	
8) Phenol-d5	4.585	99	2653723	88.20	ppm	0.02
Spiked Amount 50.000			Recovery	=	176.40%	
25) Nitrobenzene-d5	5.334	82	2535724	86.13	ppm	0.01
Spiked Amount 50.000			Recovery	=	172.26%	
51) 2-Fluorobiphenyl	7.227	172	4040920	82.13	ppm	0.01
Spiked Amount 50.000			Recovery	=	164.26%	
73) 2,4,6-Tribromophenol	9.260	330	595893	103.40	ppm	0.02
Spiked Amount 50.000			Recovery	=	206.80%	
85) Terphenyl-d14	12.876	244	4344858	89.81	ppm	0.02
Spiked Amount 50.000			Recovery	=	179.62%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.451	88	920952	77.28	ppm	94
3) Pyridine	2.767	79	2513573	95.09	ppm	97
4) N-Nitrosodimethylamine	2.740	74	1495679	93.41	ppm	93
6) Indene	5.077	116	3377110	80.21	ppm	99
7) Cumene	4.264	105	4858938	81.03	ppm	98
9) Phenol	4.596	94	2970379	92.89	ppm	95
10) Aniline	4.617	93	3003568	75.96	ppm	94
11) bis(2-Chloroethyl)ether	4.671	93	2003274	86.71	ppm	97
12) 2-Chlorophenol	4.708	128	2057219	87.34	ppm	98
13) Decane	4.735	43	2381054	72.47	ppm	94
14) 1,3-Dichlorobenzene	4.826	146	2107873	84.53	ppm	100
15) 1,4-Dichlorobenzene	4.885	146	2102027	82.74	ppm	100
16) Benzyl alcohol	4.986	108	1409362	87.98	ppm	98
17) 1,2-Dichlorobenzene	5.008	146	1961025	77.59	ppm	99
18) Acetophenone	5.206	105	2762687	78.56	ppm	92
19) 2-Methylphenol	5.067	108	1923445	84.25	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.088	121	695550	80.46	ppm	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.200	108	2001359	82.96	ppm	99
22) n-Nitroso-di-n-propyla...	5.211	70	1709772	80.51	ppm	95
23) Hexachloroethane	5.291	201	650262	87.58	ppm	81
26) Nitrobenzene	5.355	77	2605539	83.90	ppm	96
27) Quinoline	6.398	129	4298531	86.64	ppm	98
28) Isophorone	5.569	82	4394329	81.18	ppm	97
29) 2-Nitrophenol	5.634	139	1111734	86.22	ppm	88
30) 2,4-Dimethylphenol	5.666	107	2206468	94.46	ppm	97
31) Benzoic acid	5.821	105	1733219m	204.55	ppm	
32) bis(2-Chloroethoxy)met...	5.762	93	2476313	80.14	ppm	99
33) 2,4-Dichlorophenol	5.864	162	1594589	83.50	ppm	99
34) 2,6-Dichlorophenol	6.088	162	1506023	81.97	ppm	97
35) 1,3,5-Trichlorobenzene	5.644	180	1626536	75.74	ppm	98
36) 1,2,4-Trichlorobenzene	5.944	180	1651385	82.25	ppm	98
37) 1,2,3-Trichlorobenzene	6.174	180	1602019	81.10	ppm	96
38) Naphthalene	6.029	128	6097154	77.79	ppm	99
39) 4-Chloroaniline	6.083	127	2479831	77.60	ppm	98
40) 2,3-Dichloroaniline	7.121	161	1909092	79.50	ppm	98
41) Caprolactam	6.505	55	1152286	92.44	ppm	92
42) Hexachlorobutadiene	6.147	225	833890	82.04	ppm	97
43) 4-Chloro-3-methylphenol	6.607	107	2028245	87.08	ppm	99
44) 2-Methylnaphthalene	6.784	141	3332034	81.90	ppm	99
45) 1-Methylnaphthalene	6.901	141	3444466	82.84	ppm	100
46) Dimethylnaphthalene	7.559	156	3572665	84.83	ppm	93
48) Hexachlorocyclopentadiene	6.965	237	2050625	229.31	ppm	97
49) 2,4,6-Trichlorophenol	7.121	196	1074781	93.37	ppm	94
50) 2,4,5-Trichlorophenol	7.169	196	1228129	96.22	ppm	94
52) 2-Chloronaphthalene	7.383	162	3566250	81.54	ppm	97
53) Biphenyl	7.361	154	4766799	81.03	ppm	97
54) 2-Nitroaniline	7.522	65	1518720	111.66	ppm	94
55) Dimethylphthalate	7.773	163	4234474	83.21	ppm	98
56) Acenaphthylene	7.928	152	6114692	86.57	ppm	99
57) 2,6-Dinitrotoluene	7.853	165	986019	117.12	ppm	95
58) 3-Nitroaniline	8.078	138	1218550	105.96	ppm	94
59) Acenaphthene	8.169	153	3827199	82.11	ppm	97
60) 2,4-Dinitrophenol	8.228	184	1154727	1305.44	ppm	87
61) 4-Nitrophenol	8.324	109	776958	114.78	ppm	98
62) Dibenzofuran	8.410	168	4923118	78.12	ppm	94
63) 2,4-Dinitrotoluene	8.410	165	1288662	112.93	ppm	92
64) 2,3,4,6-Tetrachlorophenol	8.586	232	910221	102.51	ppm	87
65) Diethylphthalate	8.789	149	4371387	85.07	ppm	96
66) Fluorene	8.907	166	4272512	84.00	ppm	97
67) 4-Chlorophenyl-phenyle...	8.923	204	1872127	79.90	ppm	93
68) 4-Nitroaniline	8.971	138	1232175	92.43	ppm	98
70) 4,6-Dinitro-2-methylph...	9.003	198	783077	373.12	ppm	89
71) n-Nitrosodiphenylamine	9.105	169	2992552	88.48	ppm	99
72) 1,2-Diphenylhydrazine	9.158	77	5322717	87.68	ppm	95
74) 4-Bromophenyl-phenylether	9.656	248	1072498	86.24	ppm	96
75) Hexachlorobenzene	9.715	284	1169322	87.36	ppm	90
76) Pentachlorophenol	10.030	266	1645587	259.82	ppm	95

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.351	178	5997808	81.57 ppm	100
78) Anthracene	10.431	178	6123519	85.85 ppm	99
79) Carbazole	10.704	167	5729331	85.00 ppm	97
80) Di-n-butylphthalate	11.325	149	7426879	89.31 ppm	99
81) Fluoranthene	12.218	202	6560770	83.92 ppm	90
82) Octadecane	10.249	57	3184668	89.87 ppm	98
84) Pyrene	12.571	202	6793640	83.72 ppm	98
86) Butylbenzylphthalate	13.710	149	3395628	95.30 ppm	91
87) Butyl stearate	13.876	56	2381088	95.96 ppm	96
88) Benzo[a]anthracene	14.491	228	6049963	80.85 ppm	98
89) 3,3'-Dichlorobenzidine	14.496	252	2319652	97.77 ppm	97
90) Chrysene	14.555	228	5903756	85.08 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.667	149	4709386	83.62 ppm	98
93) Di-n-octylphthalate	15.668	149	8095528	96.11 ppm	100
94) Benzo[b]fluoranthene	16.112	252	7105242	94.58 ppm	83
95) Benzo[k]fluoranthene	16.154	252	5669493m	76.09 ppm	
96) Benzo[a]pyrene	16.545	252	5799377	90.43 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.042	276	6277338m	96.84 ppm	
98) Dibenz(a,h)acridine	17.727	279	5459192	92.78 ppm	99
99) Dibenz[a,h]anthracene	18.080	278	6330373	90.86 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.112	256	2983377	104.66 ppm	96
101) Benzo[g,h,i]perylene	18.433	276	6102119	88.12 ppm	94

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

7.6.31

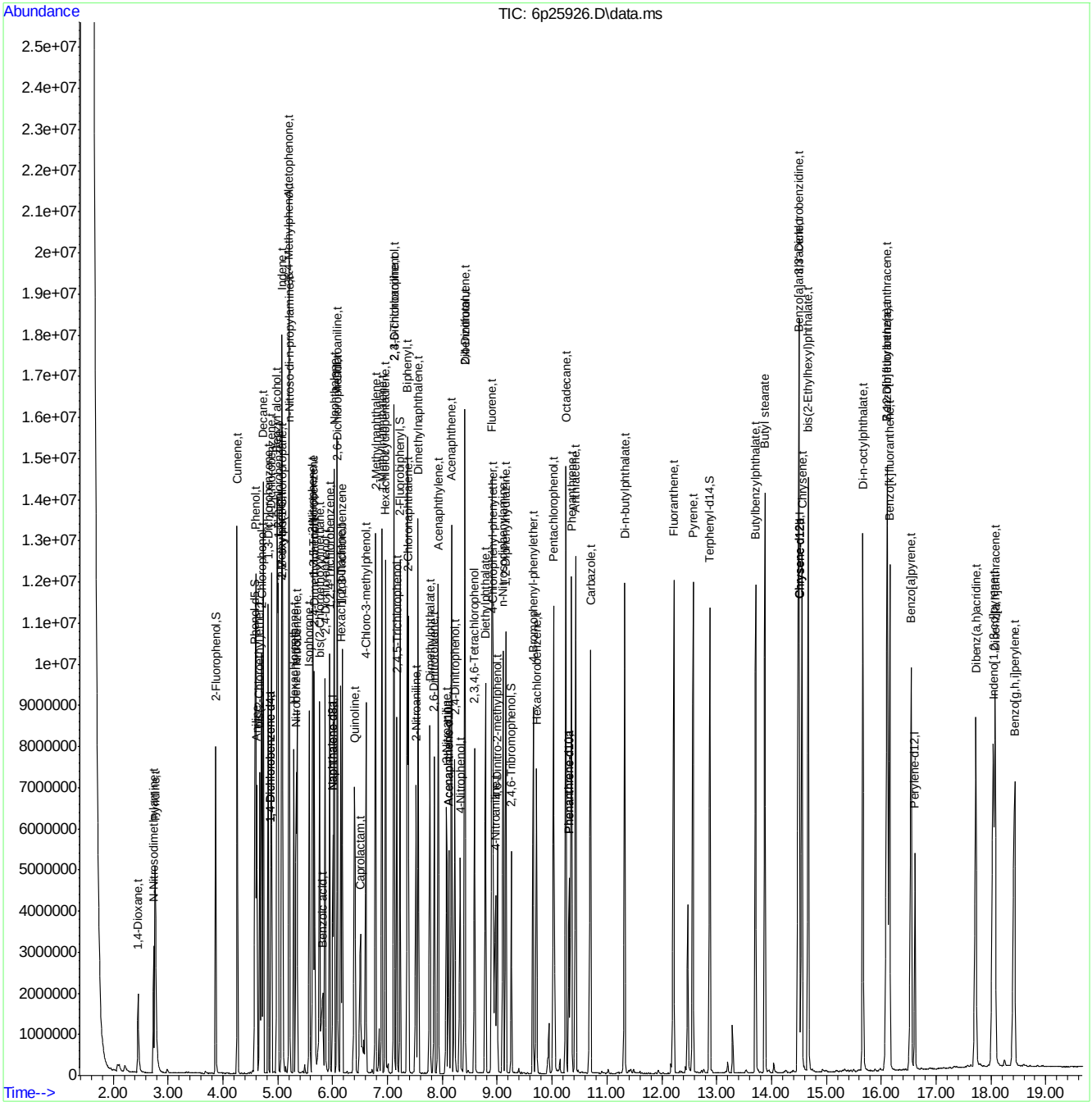
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 17:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration



Manual Integration Approval Summary

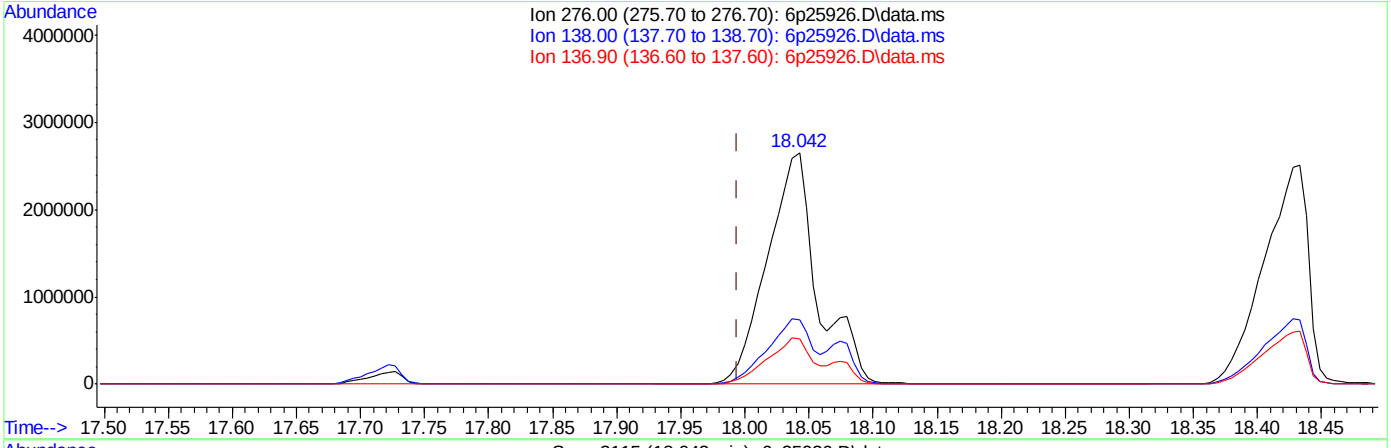
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25926.D	**Analyst approved:**	05/16/16 18:09 Arielle Cocozza
Injection Time:	05/13/16 10:20	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

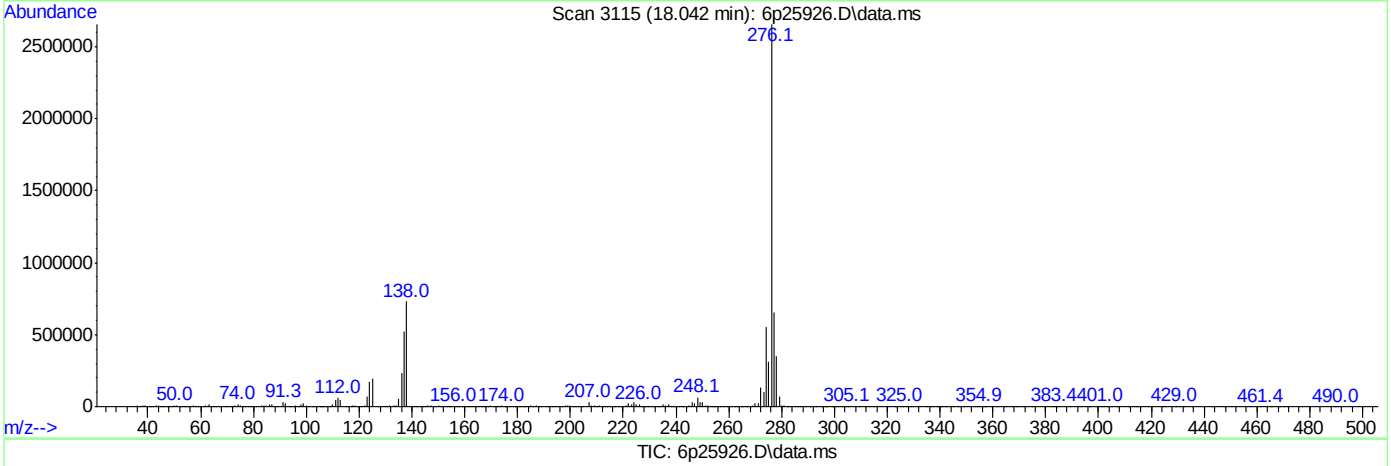
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.82	Split peak
Benzo(k)fluoranthene	207-08-9		16.15	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		18.04	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.042min (+0.048) 112.85ppm

response 7315098

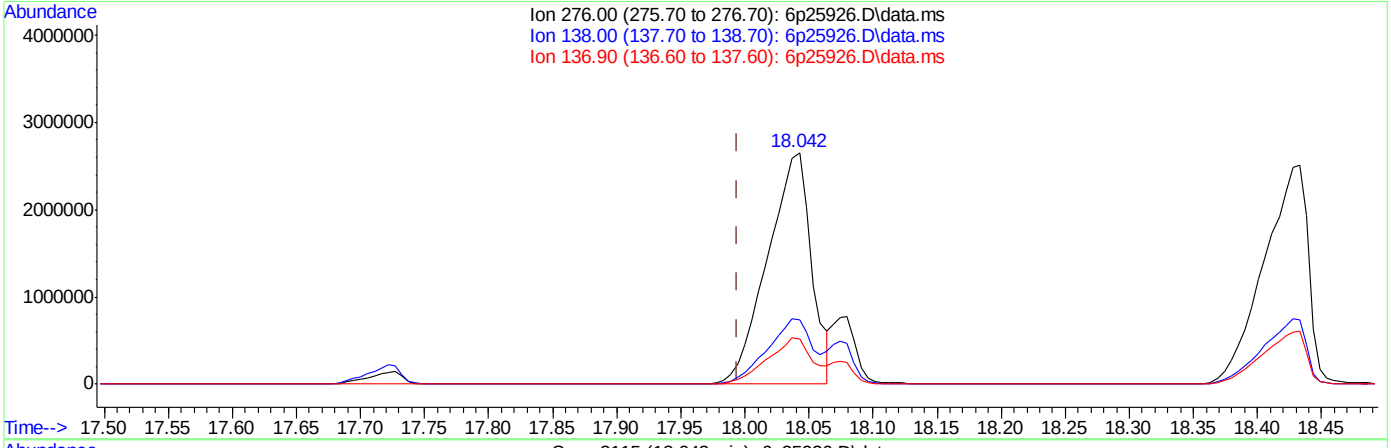
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.53
136.90	14.60	19.51
0.00	0.00	0.00

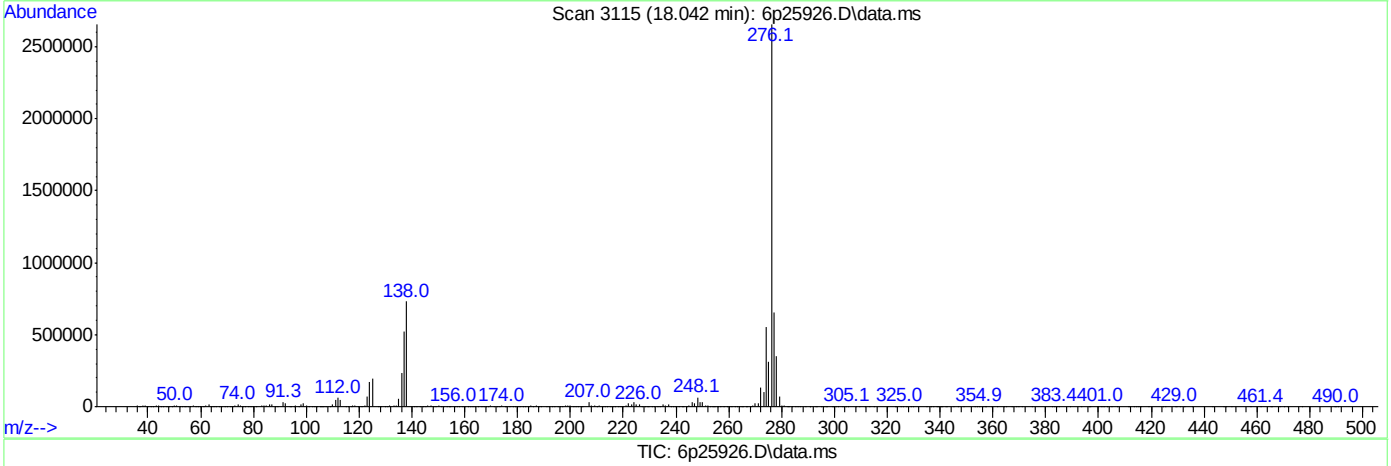
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.042min (+0.048) 96.84ppm m

response 6277338

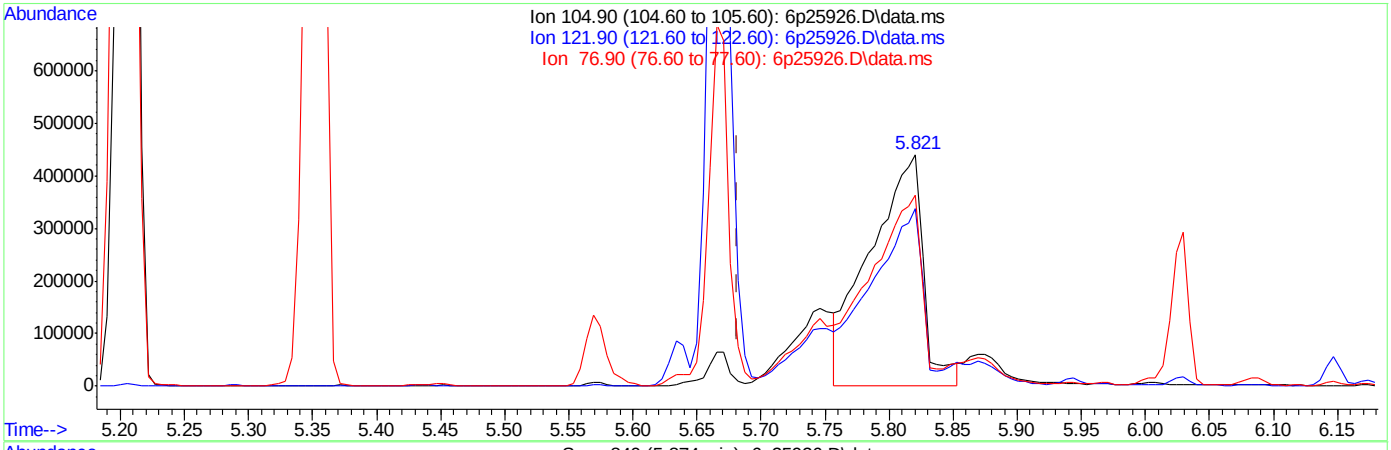
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.55
136.90	14.60	19.52
0.00	0.00	0.00

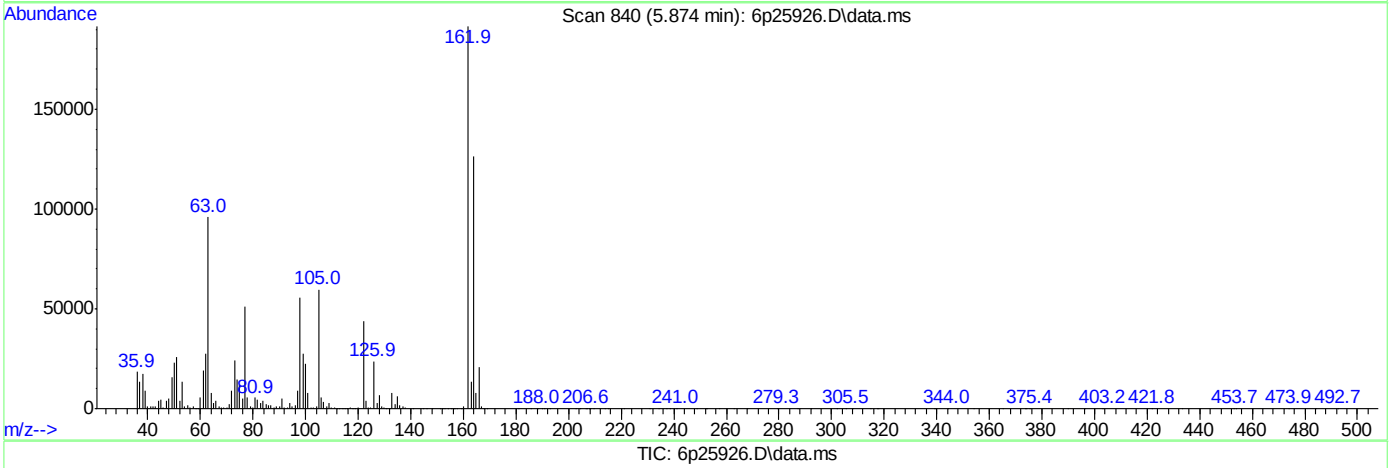
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(31) Benzoic acid (t)

5.821min (+0.139) 150.13ppm

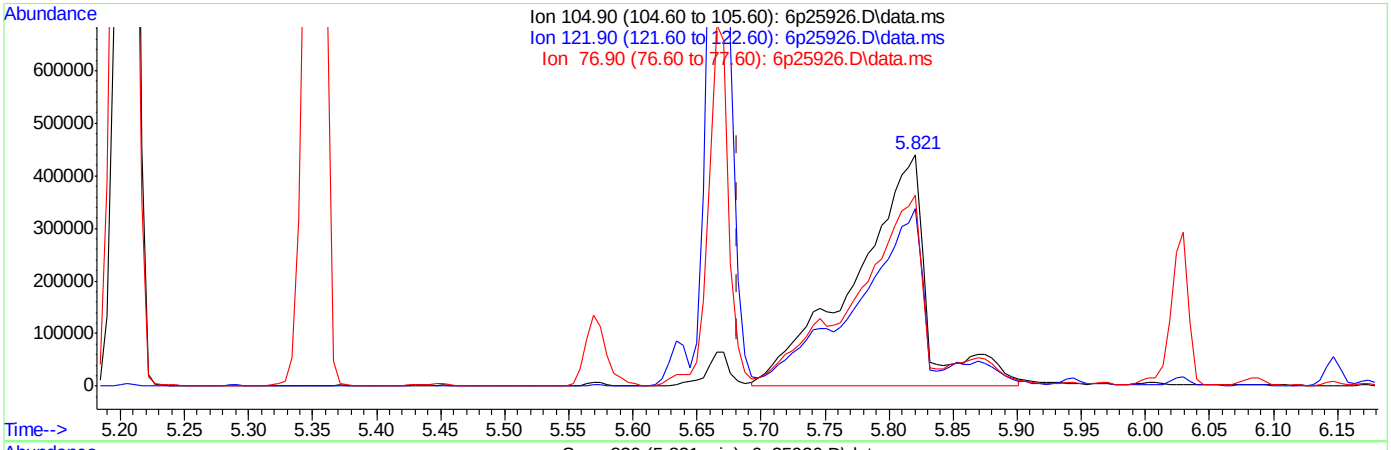
response 1272090

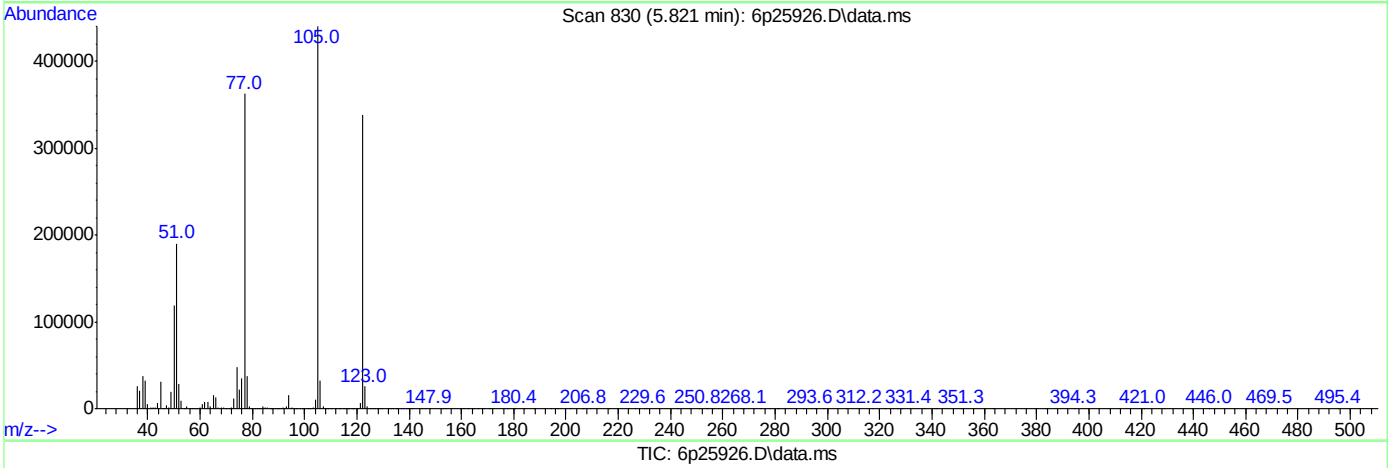
Ion	Exp%	Act%
104.90	100	100
121.90	71.70	75.31
76.90	84.30	81.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 10:40:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(31) Benzoic acid (t)

5.821min (+0.139) 204.55ppm m

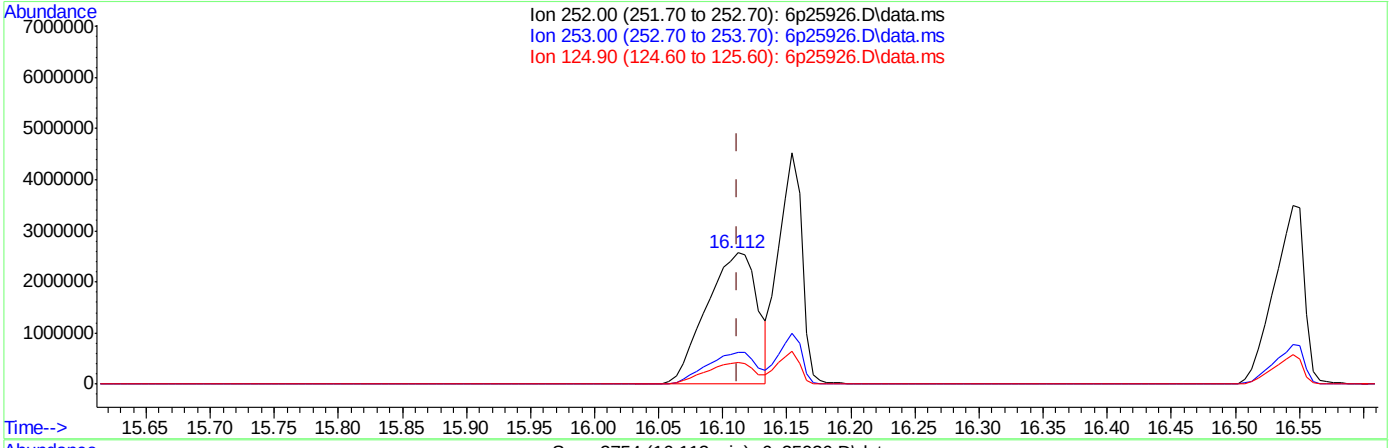
response 1733219

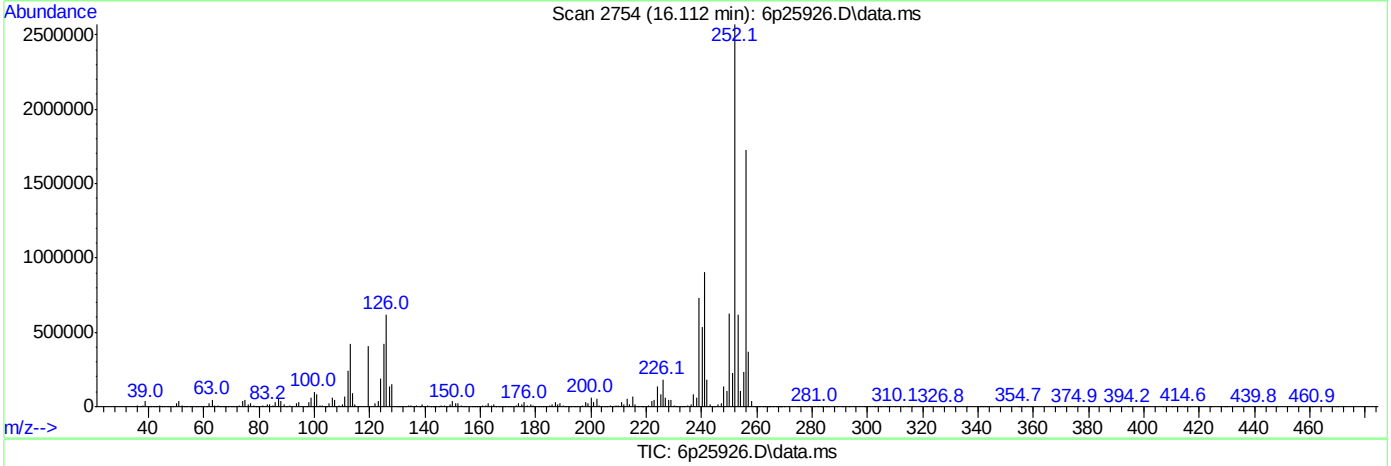
Ion	Exp%	Act%
104.90	100	100
121.90	71.70	76.70
76.90	84.30	82.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 12:06:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(95) Benzo[k]fluoranthene (t)

16.112min (0.000) 95.35ppm

response 7105242

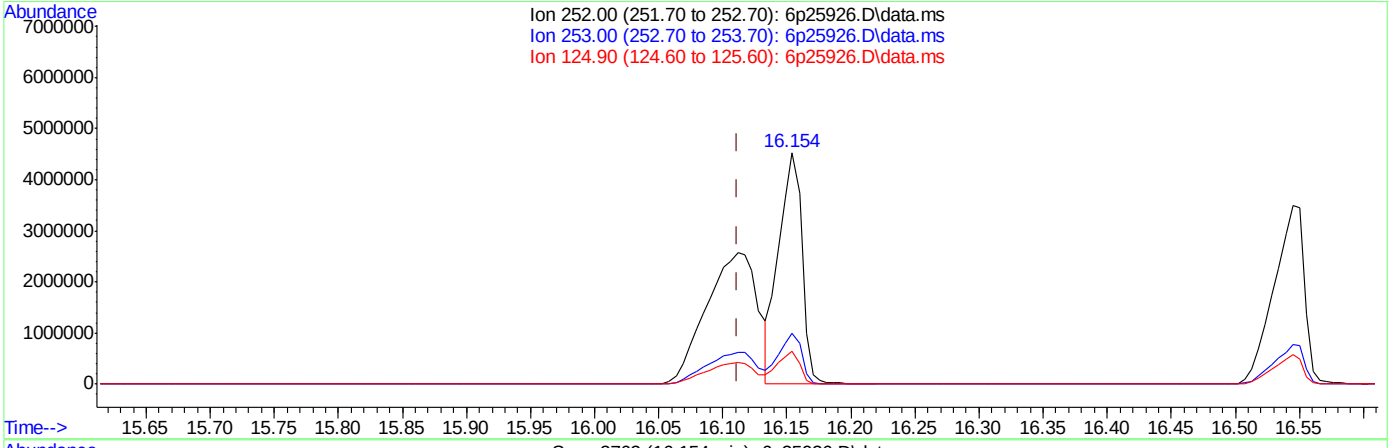
Ion	Exp%	Act%
252.00	100	100
253.00	25.30	24.79
124.90	10.90	16.83
0.00	0.00	0.00

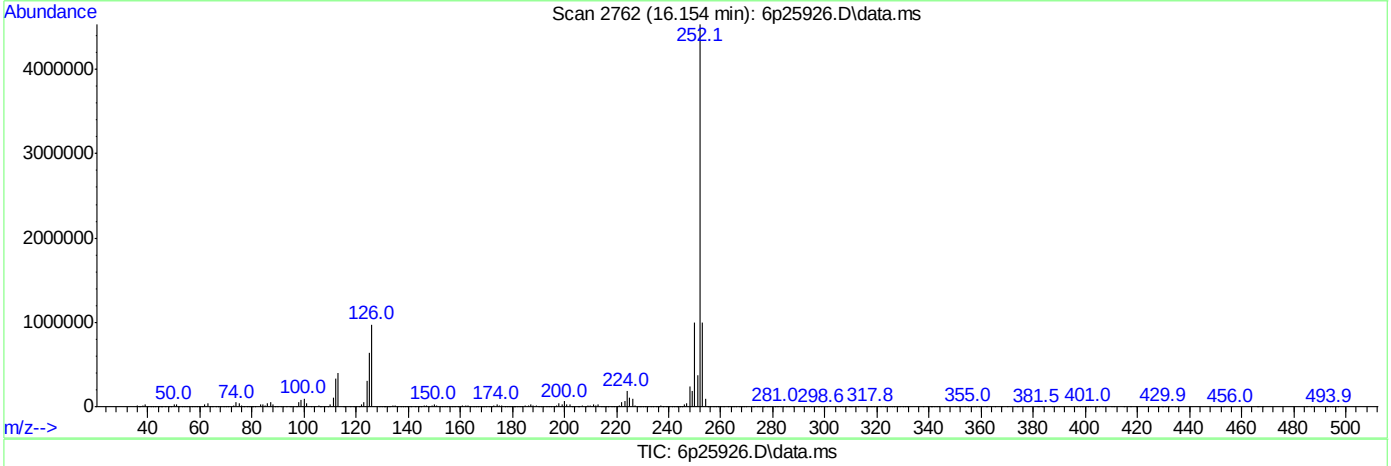
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25926.D
Acq On : 13 May 2016 10:20 am
Operator : ariellec
Sample : ic1209-100
Misc : op93693,e6p1209
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 12:06:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 10:17:05 2016
QLast Update : Fri May 13 10:17:05 2016
Response via : Initial Calibration





TIC: 6p25926.D\data.ms

(95) Benzo[k]fluoranthene (t)

16.154min (+0.043) 76.09ppm m

response 5669493

Ion	Exp%	Act%
252.00	100	100
253.00	25.30	21.90
124.90	10.90	13.98
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	559226	40.00	ppm	0.00
24) Naphthalene-d8	6.003	136	2365386	40.00	ppm	0.00
47) Acenaphthene-d10	8.115	164	1288267	40.00	ppm	0.00
69) Phenanthrene-d10	10.308	188	2102107	40.00	ppm	0.00
83) Chrysene-d12	14.507	240	1953631	40.00	ppm	0.00
92) Perylene-d12	16.609	264	1887534	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	559226	40.00	ppm	0.00
104) Acenaphthene-d10a	8.115	164	1288267	40.00	ppm	0.00
106) Phenanthrene-d10a	10.308	188	2102107	40.00	ppm	0.00
110) Chrysene-d12a	14.507	240	1953631	40.00	ppm	0.00
112) Naphthalene-d8a	6.003	136	2365386	40.00	ppm	0.00
114) Chrysene-d12b	14.507	240	1953631	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.863	112	1610017	72.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	145.42%	
8) Phenol-d5	4.580	99	2087471	73.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	146.34%	
25) Nitrobenzene-d5	5.334	82	1984075	73.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	147.28%	
51) 2-Fluorobiphenyl	7.227	172	3181245	74.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	148.30%	
73) 2,4,6-Tribromophenol	9.255	330	440018	82.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	164.74%	
85) Terphenyl-d14	12.870	244	3260083	78.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	156.82%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.456	88	731499	67.28	ppm	98
3) Pyridine	2.767	79	1954479	76.16	ppm	97
4) N-Nitrosodimethylamine	2.740	74	1172642	75.87	ppm	93
6) Indene	5.077	116	2753572	70.94	ppm	98
7) Cumene	4.264	105	3953821	71.31	ppm	98
9) Phenol	4.596	94	2361851	76.65	ppm	91
10) Aniline	4.617	93	2395083	66.71	ppm	93
11) bis(2-Chloroethyl)ether	4.665	93	1582952	72.63	ppm	98
12) 2-Chlorophenol	4.708	128	1634927	73.42	ppm	98
13) Decane	4.735	43	1940425	65.88	ppm	95
14) 1,3-Dichlorobenzene	4.826	146	1673133	71.67	ppm	98
15) 1,4-Dichlorobenzene	4.885	146	1681831	71.16	ppm	99
16) Benzyl alcohol	4.981	108	1110368	73.15	ppm	98
17) 1,2-Dichlorobenzene	5.008	146	1568321	67.94	ppm	98
18) Acetophenone	5.206	105	2234446	69.33	ppm	82
19) 2-Methylphenol	5.067	108	1538477	72.06	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.088	121	550875	69.06	ppm #	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.195	108	1619601	72.11	ppm	100
22) n-Nitroso-di-n-propyla...	5.206	70	1341742	68.46	ppm	93
23) Hexachloroethane	5.291	201	517748	73.70	ppm	84
26) Nitrobenzene	5.350	77	2041426	72.39	ppm	97
27) Quinoline	6.393	129	3293253	72.40	ppm	98
28) Isophorone	5.564	82	3387786	69.59	ppm	96
29) 2-Nitrophenol	5.634	139	875721	74.18	ppm	87
30) 2,4-Dimethylphenol	5.666	107	1721096	78.23	ppm	99
31) Benzoic acid	5.799	105	1246984	113.73	ppm	97
32) bis(2-Chloroethoxy)met...	5.757	93	1929425	69.68	ppm	99
33) 2,4-Dichlorophenol	5.858	162	1252494	72.33	ppm	99
34) 2,6-Dichlorophenol	6.088	162	1179474	71.18	ppm	98
35) 1,3,5-Trichlorobenzene	5.639	180	1300140	68.64	ppm	97
36) 1,2,4-Trichlorobenzene	5.944	180	1295655	71.48	ppm	97
37) 1,2,3-Trichlorobenzene	6.174	180	1274980	71.79	ppm	97
38) Naphthalene	6.024	128	4860405	69.79	ppm	99
39) 4-Chloroaniline	6.077	127	1972464	69.51	ppm	98
40) 2,3-Dichloroaniline	7.115	161	1487554	69.29	ppm	100
41) Caprolactam	6.495	55	846671	72.61	ppm	94
42) Hexachlorobutadiene	6.147	225	665255	72.55	ppm	97
43) 4-Chloro-3-methylphenol	6.602	107	1559507	72.91	ppm	99
44) 2-Methylnaphthalene	6.778	141	2613871	71.25	ppm	99
45) 1-Methylnaphthalene	6.896	141	2693717	71.61	ppm	98
46) Dimethylnaphthalene	7.559	156	2762155	71.99	ppm	95
48) Hexachlorocyclopentadiene	6.960	237	1543653	177.48	ppm	97
49) 2,4,6-Trichlorophenol	7.120	196	833265	79.83	ppm	95
50) 2,4,5-Trichlorophenol	7.163	196	921562	78.86	ppm	95
52) 2-Chloronaphthalene	7.377	162	2782772	73.11	ppm	96
53) Biphenyl	7.356	154	3712840	72.66	ppm	98
54) 2-Nitroaniline	7.516	65	1139964	87.00	ppm	93
55) Dimethylphthalate	7.773	163	3250622	72.97	ppm	99
56) Acenaphthylene	7.923	152	4739286	75.75	ppm	99
57) 2,6-Dinitrotoluene	7.848	165	742662	90.00	ppm	97
58) 3-Nitroaniline	8.073	138	908479	83.53	ppm	96
59) Acenaphthene	8.163	153	2945479	72.47	ppm	98
60) 2,4-Dinitrophenol	8.217	184	823582	353.25	ppm	84
61) 4-Nitrophenol	8.319	109	564525	85.71	ppm	92
62) Dibenzofuran	8.409	168	3796493	70.08	ppm	94
63) 2,4-Dinitrotoluene	8.404	165	993587	90.02	ppm	98
64) 2,3,4,6-Tetrachlorophenol	8.581	232	681408	82.07	ppm	87
65) Diethylphthalate	8.784	149	3306654	73.03	ppm	96
66) Fluorene	8.902	166	3263209	73.09	ppm	97
67) 4-Chlorophenyl-phenyle...	8.918	204	1440118	71.05	ppm	89
68) 4-Nitroaniline	8.960	138	904082	75.03	ppm	100
70) 4,6-Dinitro-2-methylph...	8.998	198	553954	150.74	ppm	94
71) n-Nitrosodiphenylamine	9.099	169	2255658	75.67	ppm	99
72) 1,2-Diphenylhydrazine	9.153	77	4018730	75.32	ppm	93
74) 4-Bromophenyl-phenylether	9.650	248	808256	74.31	ppm	94
75) Hexachlorobenzene	9.715	284	890805	75.80	ppm	96
76) Pentachlorophenol	10.025	266	1185432	185.69	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.351	178	4587213	72.52 ppm	99
78) Anthracene	10.426	178	4604222	73.91 ppm	99
79) Carbazole	10.699	167	4348459	74.09 ppm	98
80) Di-n-butylphthalate	11.319	149	5561964	75.67 ppm	99
81) Fluoranthene	12.212	202	4890299	72.11 ppm	91
82) Octadecane	10.249	57	2441057	77.78 ppm	98
84) Pyrene	12.565	202	5105149	74.78 ppm	99
86) Butylbenzylphthalate	13.710	149	2479479	79.47 ppm	92
87) Butyl stearate	13.876	56	1798980	82.61 ppm	99
88) Benzo[a]anthracene	14.486	228	4446668	71.35 ppm	99
89) 3,3'-Dichlorobenzidine	14.496	252	1681982	80.29 ppm	98
90) Chrysene	14.550	228	4328890	73.80 ppm	100
91) bis(2-Ethylhexyl)phtha...	14.667	149	3459019	73.03 ppm	98
93) Di-n-octylphthalate	15.662	149	5941702	82.90 ppm	97
94) Benzo[b]fluoranthene	16.101	252	4881765	76.76 ppm	99
95) Benzo[k]fluoranthene	16.149	252	4337281	68.58 ppm	100
96) Benzo[a]pyrene	16.539	252	4152213	77.58 ppm	95
97) Indeno[1,2,3-cd]pyrene	18.032	276	4609633m	83.36 ppm	
98) Dibenz(a,h)acridine	17.716	279	3991015	80.62 ppm	99
99) Dibenz[a,h]anthracene	18.069	278	4688862	80.51 ppm	97
100) 7,12-Dimethylbenz(a)an...	16.106	256	2155704	86.38 ppm	97
101) Benzo[g,h,i]perylene	18.417	276	4557626	79.49 ppm	94

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

7.6.32

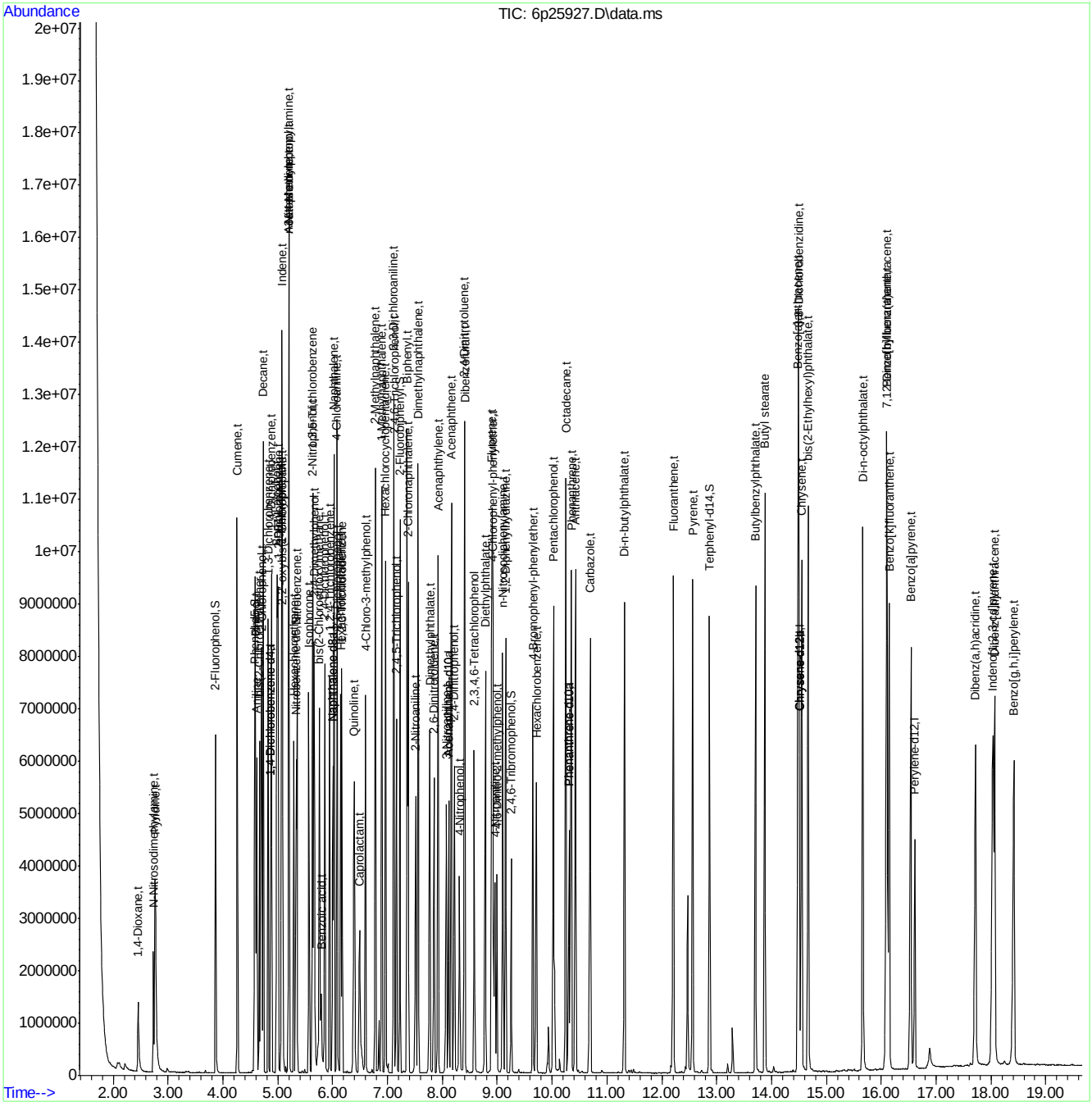
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:11:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

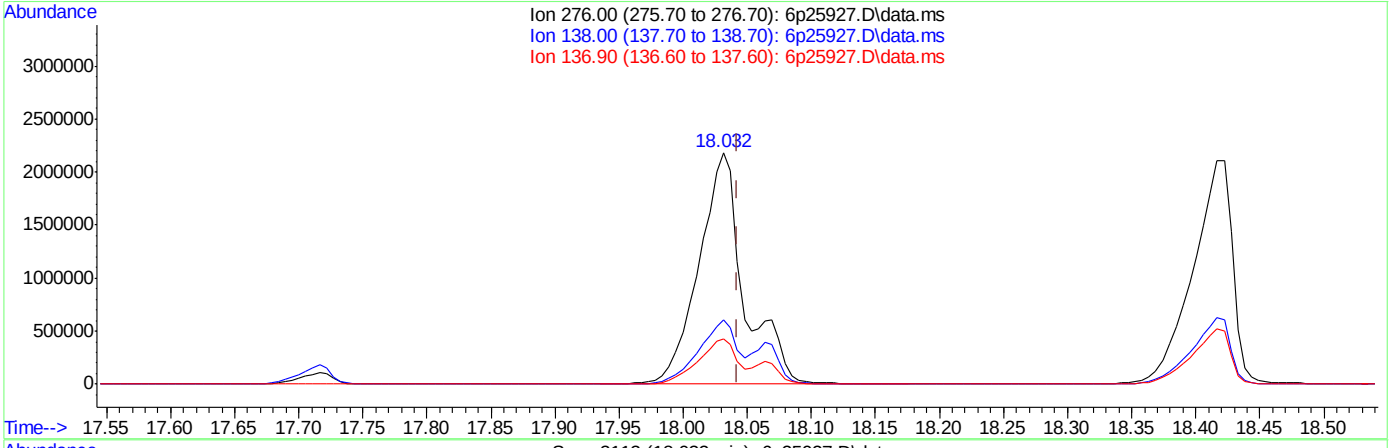
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25927.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 10:47	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

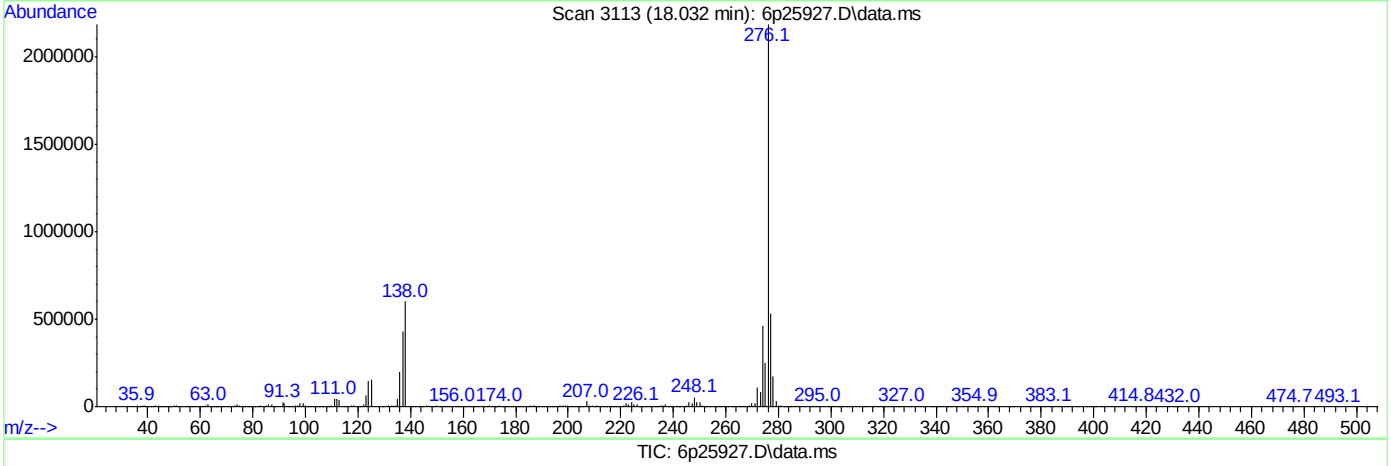
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.03	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:10:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration





TIC: 6p25927.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.032min (-0.011) 98.34ppm

response 5437743

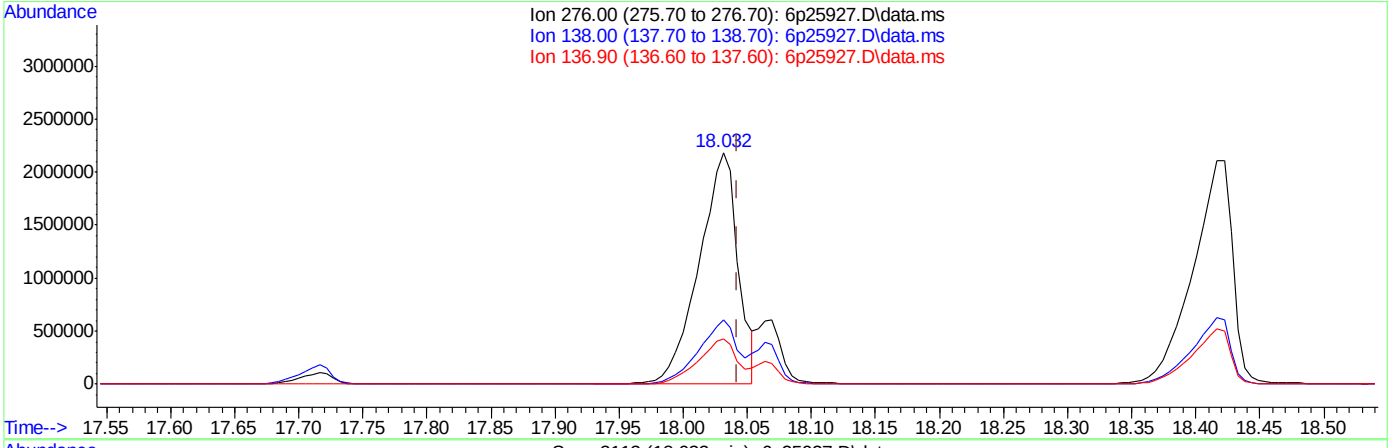
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.50
136.90	14.60	19.67
0.00	0.00	0.00

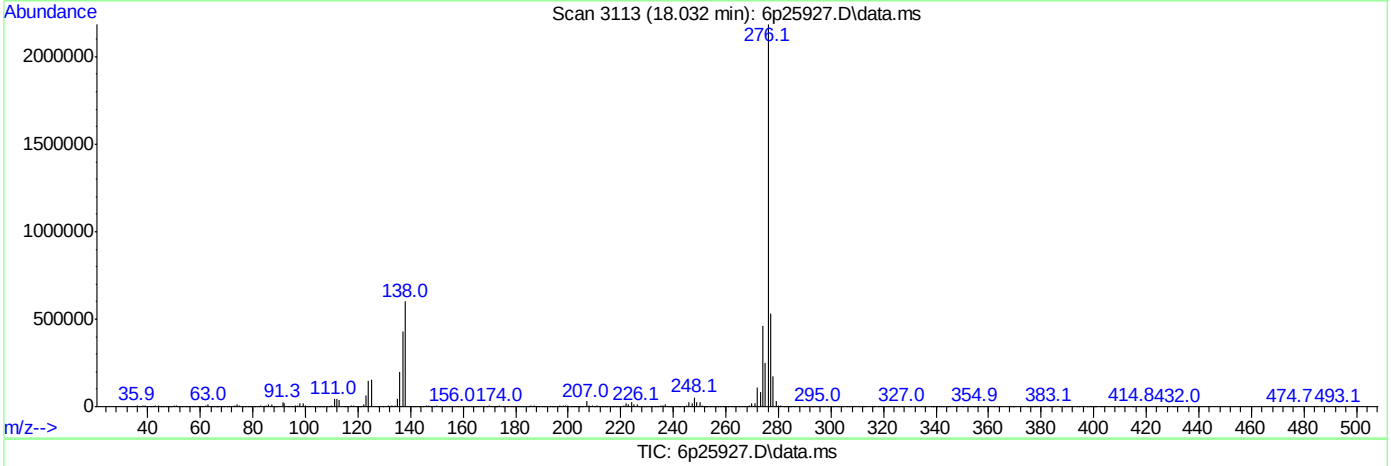
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25927.D
Acq On : 13 May 2016 10:47 am
Operator : ariellec
Sample : ic1209-80
Misc : op93693,e6p1209
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 13 11:10:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:10:43 2016
QLast Update : Fri May 13 11:10:43 2016
Response via : Initial Calibration





TIC: 6p25927.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.032min (-0.011) 83.36ppm m

response 4609633

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.54
136.90	14.60	19.70
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	502297	40.00	ppm	0.00
24) Naphthalene-d8	6.003	136	2161230	40.00	ppm	0.00
47) Acenaphthene-d10	8.116	164	1222131	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1993199	40.00	ppm	0.00
83) Chrysene-d12	14.502	240	1896728	40.00	ppm	0.00
92) Perylene-d12	16.609	264	1831871	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	502297	40.00	ppm	0.00
104) Acenaphthene-d10a	8.116	164	1222131	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1993199	40.00	ppm	0.00
110) Chrysene-d12a	14.502	240	1896728	40.00	ppm	0.00
112) Naphthalene-d8a	6.003	136	2161230	40.00	ppm	0.00
114) Chrysene-d12b	14.502	240	1896728	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.863	112	923147	47.50	ppm	0.00
Spiked Amount 50.000			Recovery = 95.00%			
8) Phenol-d5	4.575	99	1206688	48.12	ppm	0.00
Spiked Amount 50.000			Recovery = 96.24%			
25) Nitrobenzene-d5	5.329	82	1139198	47.21	ppm	0.00
Spiked Amount 50.000			Recovery = 94.42%			
51) 2-Fluorobiphenyl	7.222	172	1871769	46.84	ppm	0.00
Spiked Amount 50.000			Recovery = 93.68%			
73) 2,4,6-Tribromophenol	9.249	330	260091	50.97	ppm	0.00
Spiked Amount 50.000			Recovery = 101.94%			
85) Terphenyl-d14	12.870	244	1921279	47.84	ppm	0.00
Spiked Amount 50.000			Recovery = 95.68%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	12.207	57	1531	0.00	ppm	0.00
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	418681	44.65	ppm	94
3) Pyridine	2.767	79	1117296	49.06	ppm	98
4) N-Nitrosodimethylamine	2.735	74	669710	48.87	ppm	94
6) Indene	5.077	116	1639269	48.39	ppm	98
7) Cumene	4.259	105	2310374	47.69	ppm	98
9) Phenol	4.585	94	1304259	47.62	ppm	80
10) Aniline	4.612	93	1373168	44.43	ppm	94
11) bis(2-Chloroethyl)ether	4.660	93	917605	47.98	ppm	97
12) 2-Chlorophenol	4.703	128	933222	47.64	ppm	99
13) Decane	4.735	43	1156636	45.74	ppm	94
14) 1,3-Dichlorobenzene	4.821	146	975368	47.76	ppm	98
15) 1,4-Dichlorobenzene	4.885	146	988222	47.88	ppm	99
16) Benzyl alcohol	4.976	108	645412	48.38	ppm	99
17) 1,2-Dichlorobenzene	5.003	146	920687	46.14	ppm	99
18) Acetophenone	5.200	105	1333528	47.65	ppm	81
19) 2-Methylphenol	5.061	108	888611	47.52	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.088	121	322839	46.65	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21)	3&4-Methylphenol	5.190	108	950515	48.31	ppm		99
22)	n-Nitroso-di-n-propyla...	5.200	70	789125	46.50	ppm		92
23)	Hexachloroethane	5.286	201	299100	48.35	ppm	#	73
26)	Nitrobenzene	5.345	77	1176707	46.78	ppm		98
27)	Quinoline	6.383	129	1910629	47.09	ppm		98
28)	Isophorone	5.559	82	1974609	45.89	ppm		97
29)	2-Nitrophenol	5.628	139	509934	48.15	ppm		92
30)	2,4-Dimethylphenol	5.660	107	954251	47.74	ppm		96
31)	Benzoic acid	5.773	105	659787	59.58	ppm		91
32)	bis(2-Chloroethoxy)met...	5.751	93	1121488	45.81	ppm		99
33)	2,4-Dichlorophenol	5.853	162	719541	46.59	ppm		98
34)	2,6-Dichlorophenol	6.083	162	692867	47.06	ppm		99
35)	1,3,5-Trichlorobenzene	5.639	180	785170	47.04	ppm		98
36)	1,2,4-Trichlorobenzene	5.939	180	757101	46.96	ppm		96
37)	1,2,3-Trichlorobenzene	6.169	180	741138	46.87	ppm		97
38)	Naphthalene	6.024	128	2853847	46.32	ppm		99
39)	4-Chloroaniline	6.072	127	1153434	46.00	ppm		98
40)	2,3-Dichloroaniline	7.115	161	873175	46.06	ppm		98
41)	Caprolactam	6.473	55	497433	47.79	ppm		95
42)	Hexachlorobutadiene	6.142	225	383582	46.87	ppm		98
43)	4-Chloro-3-methylphenol	6.591	107	898981	47.04	ppm		98
44)	2-Methylnaphthalene	6.778	141	1535721	47.10	ppm		99
45)	1-Methylnaphthalene	6.891	141	1603084	47.90	ppm		99
46)	Dimethylnaphthalene	7.554	156	1638703	47.94	ppm		95
48)	Hexachlorocyclopentadiene	6.960	237	888608	104.83	ppm		96
49)	2,4,6-Trichlorophenol	7.115	196	488447	49.35	ppm		95
50)	2,4,5-Trichlorophenol	7.158	196	539969	48.88	ppm		94
52)	2-Chloronaphthalene	7.372	162	1630153	46.14	ppm		97
53)	Biphenyl	7.351	154	2224207	46.96	ppm		99
54)	2-Nitroaniline	7.511	65	656655	51.70	ppm		90
55)	Dimethylphthalate	7.763	163	1925127	46.58	ppm		99
56)	Acenaphthylene	7.918	152	2808795	47.96	ppm		99
57)	2,6-Dinitrotoluene	7.843	165	434872	53.87	ppm		92
58)	3-Nitroaniline	8.062	138	531682	50.97	ppm		98
59)	Acenaphthene	8.158	153	1741820	46.26	ppm		97
60)	2,4-Dinitrophenol	8.212	184	445687	154.77	ppm		96
61)	4-Nitrophenol	8.308	109	330344	51.94	ppm		93
62)	Dibenzofuran	8.404	168	2286132	45.90	ppm		96
63)	2,4-Dinitrotoluene	8.399	165	584628	54.14	ppm		100
64)	2,3,4,6-Tetrachlorophenol	8.575	232	393414	49.63	ppm		87
65)	Diethylphthalate	8.773	149	1962184	46.70	ppm		95
66)	Fluorene	8.896	166	1957071	47.23	ppm		97
67)	4-Chlorophenyl-phenyle...	8.918	204	851009	45.53	ppm		92
68)	4-Nitroaniline	8.945	138	536195	47.65	ppm		97
70)	4,6-Dinitro-2-methylph...	8.987	198	306043	71.93	ppm		93
71)	n-Nitrosodiphenylamine	9.094	169	1341667	48.12	ppm		99
72)	1,2-Diphenylhydrazine	9.153	77	2400960	48.16	ppm		95
74)	4-Bromophenyl-phenylether	9.645	248	483572	47.74	ppm		91
75)	Hexachlorobenzene	9.709	284	535521	48.70	ppm		91
76)	Pentachlorophenol	10.020	266	687249	109.15	ppm		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.346	178	2744213	46.85	ppm	98
78) Anthracene	10.421	178	2764381	47.71	ppm	99
79) Carbazole	10.688	167	2588014	47.38	ppm	98
80) Di-n-butylphthalate	11.319	149	3321192	48.30	ppm	100
81) Fluoranthene	12.207	202	2934582	46.79	ppm	90
82) Octadecane	10.244	57	1469848	49.74	ppm	96
84) Pyrene	12.560	202	3049032	46.77	ppm	99
86) Butylbenzylphthalate	13.705	149	1454956	48.11	ppm	93
87) Butyl stearate	13.871	56	1057454	49.61	ppm	96
88) Benzo[a]anthracene	14.480	228	2649029	45.00	ppm	98
89) 3,3'-Dichlorobenzidine	14.486	252	1000776	49.16	ppm	96
90) Chrysene	14.539	228	2603547	46.62	ppm	100
91) bis(2-Ethylhexyl)phtha...	14.662	149	2024447	45.00	ppm	97
93) Di-n-octylphthalate	15.657	149	3450602	49.16	ppm	97
94) Benzo[b]fluoranthene	16.090	252	2893823	47.36	ppm	99
95) Benzo[k]fluoranthene	16.133	252	2681818	45.31	ppm	96
96) Benzo[a]pyrene	16.529	252	2530311	49.08	ppm	95
97) Indeno[1,2,3-cd]pyrene	18.021	276	2741438m	50.55	ppm	
98) Dibenz(a,h)acridine	17.711	279	2475117	51.42	ppm	100
99) Dibenz[a,h]anthracene	18.059	278	2855230	50.44	ppm	98
100) 7,12-Dimethylbenz(a)an...	16.096	256	1272937	51.53	ppm	97
101) Benzo[g,h,i]perylene	18.406	276	2816673	50.70	ppm	95

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

7.6.33

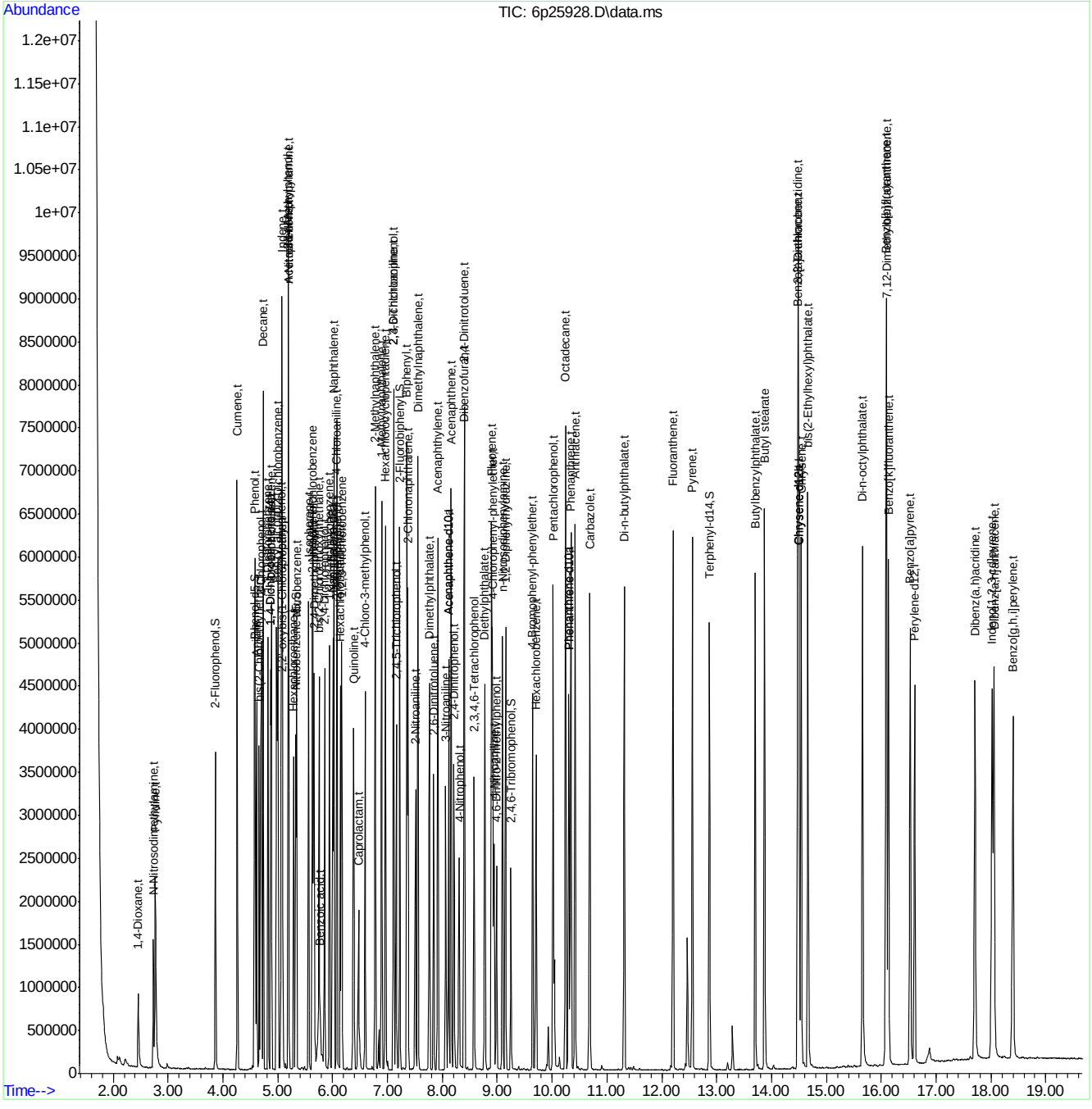
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:36:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

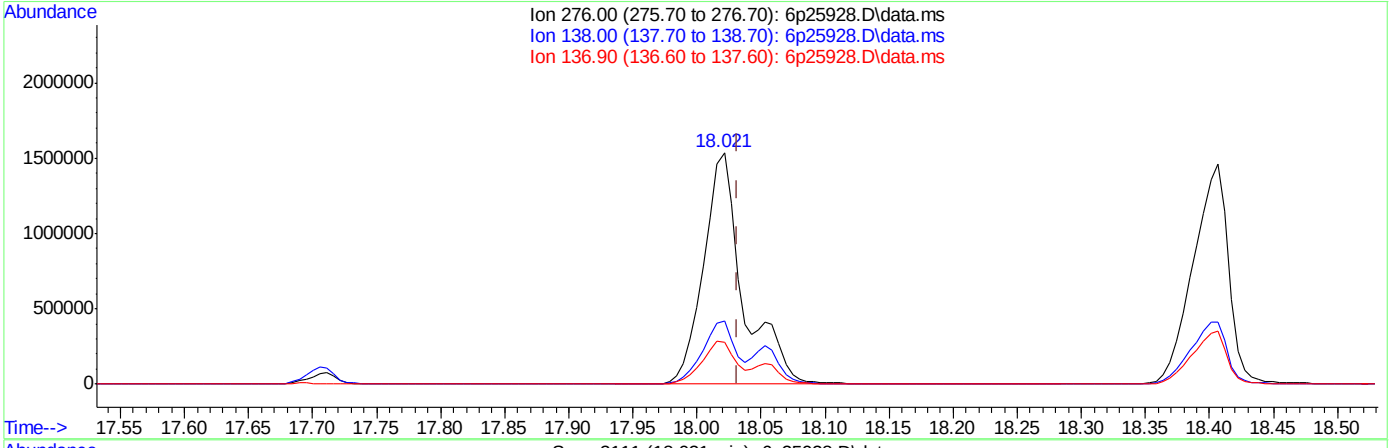
Sample Number:	E6P1209-ICC1209	**Method:**	SW846 8270D
Lab FileID:	6P25928.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 11:15	**Supervisor approved:**	05/16/16 18:43 Nina Pandya

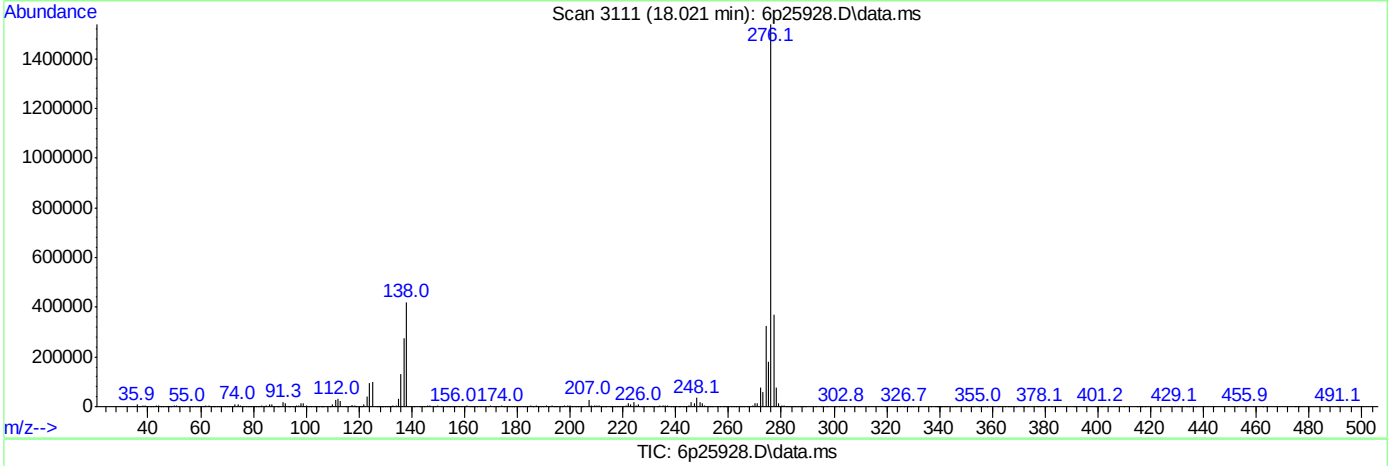
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.02	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:34:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration





TIC: 6p25928.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.021min (-0.011) 61.34ppm

response 3326256

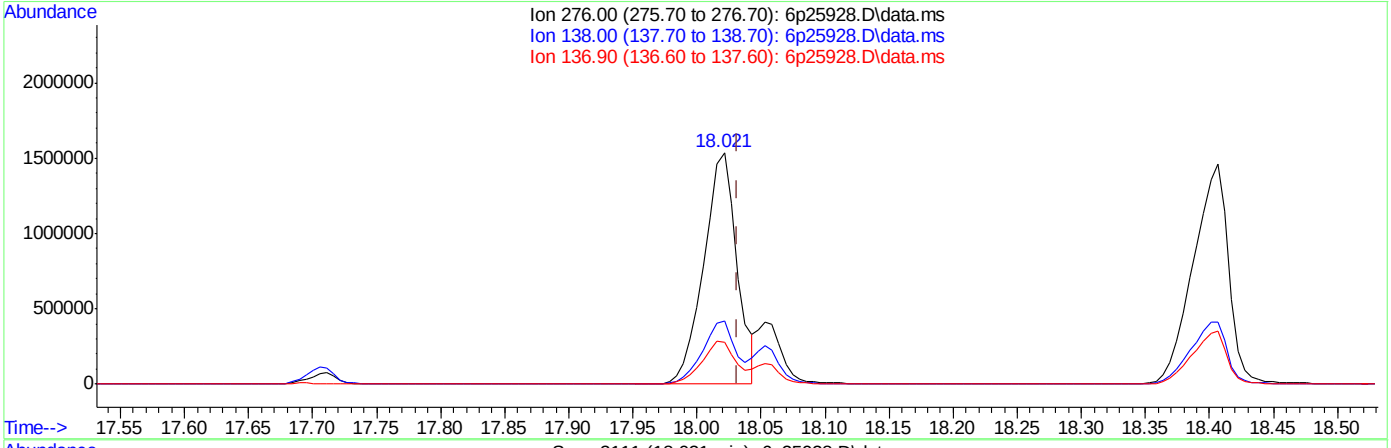
Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.31
136.90	14.60	17.92
0.00	0.00	0.00

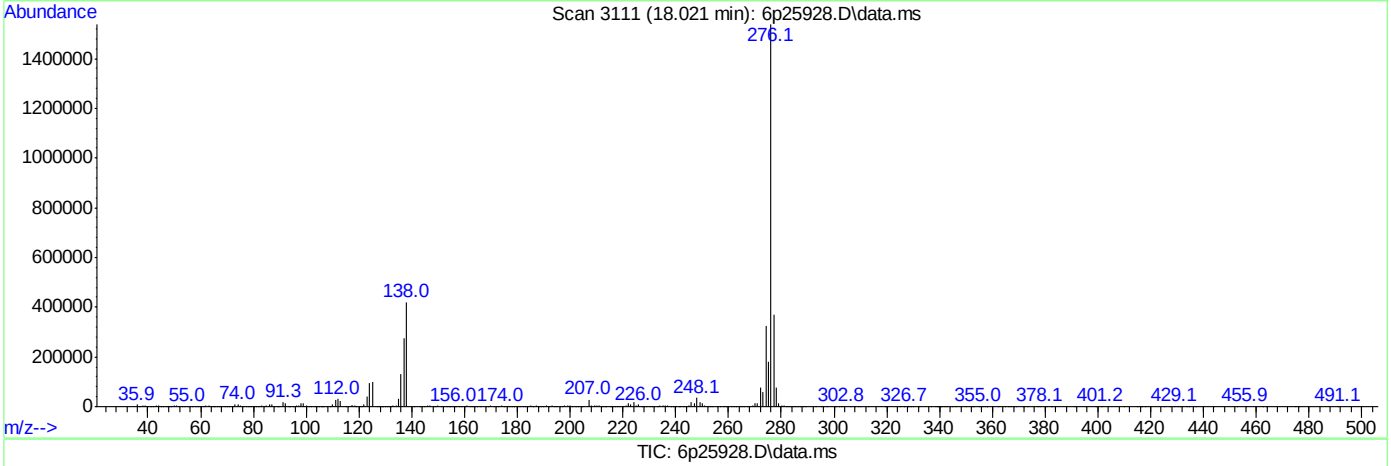
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25928.D
Acq On : 13 May 2016 11:15 am
Operator : ariellec
Sample : icc1209-50
Misc : op93693,e6p1209
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 11:34:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:11:22 2016
QLast Update : Fri May 13 11:11:22 2016
Response via : Initial Calibration





TIC: 6p25928.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.021min (-0.011) 50.55ppm m

response 2741438

Ion	Exp%	Act%
276.00	100	100
138.00	20.00	27.32
136.90	14.60	17.95
0.00	0.00	0.00

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	506892	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2096052	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1196565	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1955220	40.00	ppm	0.00
83) Chrysene-d12	14.496	240	1855371	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1808233	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	506892	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1196565	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1955220	40.00	ppm	0.00
110) Chrysene-d12a	14.496	240	1855371	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2096052	40.00	ppm	0.00
114) Chrysene-d12b	14.496	240	1855371	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	466743	24.04	ppm	0.00
Spiked Amount 50.000			Recovery = 48.08%			
8) Phenol-d5	4.569	99	615497	24.51	ppm	0.00
Spiked Amount 50.000			Recovery = 49.02%			
25) Nitrobenzene-d5	5.324	82	573093	24.77	ppm	0.00
Spiked Amount 50.000			Recovery = 49.54%			
51) 2-Fluorobiphenyl	7.222	172	932271	24.13	ppm	0.00
Spiked Amount 50.000			Recovery = 48.26%			
73) 2,4,6-Tribromophenol	9.244	330	122698	24.42	ppm	0.00
Spiked Amount 50.000			Recovery = 48.84%			
85) Terphenyl-d14	12.865	244	957036	24.57	ppm	0.00
Spiked Amount 50.000			Recovery = 49.14%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	212096	22.90	ppm	93
3) Pyridine	2.767	79	552071	24.11	ppm	98
4) N-Nitrosodimethylamine	2.729	74	334597	24.30	ppm	99
6) Indene	5.077	116	850212	25.03	ppm	99
7) Cumene	4.259	105	1204648	24.87	ppm	98
9) Phenol	4.580	94	660761	24.14	ppm	94
10) Aniline	4.612	93	706344	23.16	ppm	94
11) bis(2-Chloroethyl)ether	4.660	93	470095	24.56	ppm	97
12) 2-Chlorophenol	4.703	128	482282	24.63	ppm	94
13) Decane	4.735	43	602139	24.00	ppm	98
14) 1,3-Dichlorobenzene	4.821	146	500667	24.51	ppm	99
15) 1,4-Dichlorobenzene	4.880	146	505114	24.46	ppm	99
16) Benzyl alcohol	4.976	108	327768	24.50	ppm	93
17) 1,2-Dichlorobenzene	5.003	146	470513	23.73	ppm	97
18) Acetophenone	5.195	105	686151	24.53	ppm	99
19) 2-Methylphenol	5.056	108	453566	24.27	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.083	121	167336	24.29	ppm #	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.184	108	482466	24.46	ppm	99
22) n-Nitroso-di-n-propyla...	5.195	70	406262	24.06	ppm	98
23) Hexachloroethane	5.286	201	151477	24.43	ppm	97
26) Nitrobenzene	5.340	77	597484	24.81	ppm	97
27) Quinoline	6.372	129	956570	24.59	ppm	99
28) Isophorone	5.554	82	1009002	24.58	ppm	99
29) 2-Nitrophenol	5.628	139	257262	25.23	ppm	86
30) 2,4-Dimethylphenol	5.655	107	460189	23.95	ppm	94
31) Benzoic acid	5.746	105	277139	24.85	ppm	99
32) bis(2-Chloroethoxy)met...	5.751	93	566992	24.29	ppm	99
33) 2,4-Dichlorophenol	5.848	162	355407	24.06	ppm	98
34) 2,6-Dichlorophenol	6.078	162	350521	24.84	ppm	99
35) 1,3,5-Trichlorobenzene	5.634	180	394640	24.67	ppm	99
36) 1,2,4-Trichlorobenzene	5.939	180	379832	24.59	ppm	97
37) 1,2,3-Trichlorobenzene	6.163	180	373151	24.64	ppm	98
38) Naphthalene	6.019	128	1439431	24.45	ppm	99
39) 4-Chloroaniline	6.067	127	590686	24.68	ppm	99
40) 2,3-Dichloroaniline	7.110	161	449755	24.85	ppm	97
41) Caprolactam	6.447	55	249261	24.91	ppm	97
42) Hexachlorobutadiene	6.142	225	197143	25.15	ppm	97
43) 4-Chloro-3-methylphenol	6.586	107	449959	24.57	ppm	100
44) 2-Methylnaphthalene	6.773	141	781781	25.01	ppm	98
45) 1-Methylnaphthalene	6.891	141	802814	24.94	ppm	99
46) Dimethylnaphthalene	7.549	156	827067	25.16	ppm	99
48) Hexachlorocyclopentadiene	6.960	237	434286	51.83	ppm	99
49) 2,4,6-Trichlorophenol	7.110	196	242562	25.10	ppm	98
50) 2,4,5-Trichlorophenol	7.153	196	263529	24.48	ppm	98
52) 2-Chloronaphthalene	7.372	162	824922	24.22	ppm	98
53) Biphenyl	7.345	154	1113572	24.31	ppm	99
54) 2-Nitroaniline	7.500	65	323569	25.84	ppm	94
55) Dimethylphthalate	7.757	163	961481	24.09	ppm	100
56) Acenaphthylene	7.912	152	1407202	24.74	ppm	99
57) 2,6-Dinitrotoluene	7.832	165	210924	26.28	ppm	91
58) 3-Nitroaniline	8.057	138	266858	26.03	ppm	98
59) Acenaphthene	8.153	153	871989	24.01	ppm	99
60) 2,4-Dinitrophenol	8.201	184	187815	60.04	ppm	96
61) 4-Nitrophenol	8.297	109	158255	25.22	ppm	94
62) Dibenzofuran	8.399	168	1160206	24.19	ppm	99
63) 2,4-Dinitrotoluene	8.388	165	291889	27.16	ppm	94
64) 2,3,4,6-Tetrachlorophenol	8.570	232	186578	24.07	ppm	97
65) Diethylphthalate	8.773	149	996453	24.55	ppm	99
66) Fluorene	8.891	166	986661	24.59	ppm	100
67) 4-Chlorophenyl-phenyle...	8.912	204	434893	24.20	ppm	99
68) 4-Nitroaniline	8.934	138	268422	24.59	ppm	99
70) 4,6-Dinitro-2-methylph...	8.977	198	136243	30.01	ppm	94
71) n-Nitrosodiphenylamine	9.089	169	674799	24.86	ppm	99
72) 1,2-Diphenylhydrazine	9.148	77	1212986	24.99	ppm	99
74) 4-Bromophenyl-phenylether	9.645	248	242508	24.63	ppm	97
75) Hexachlorobenzene	9.704	284	263193	24.53	ppm	92
76) Pentachlorophenol	10.014	266	311845	49.58	ppm	97

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) Phenanthrene	10.341	178	1375205	24.24	ppm	99
78) Anthracene	10.415	178	1373783	24.39	ppm	100
79) Carbazole	10.683	167	1292211	24.37	ppm	99
80) Di-n-butylphthalate	11.314	149	1666714	24.88	ppm	100
81) Fluoranthene	12.202	202	1472413	24.24	ppm	99
82) Octadecane	10.239	57	749735	25.89	ppm	99
84) Pyrene	12.555	202	1533860	24.37	ppm	100
86) Butylbenzylphthalate	13.700	149	698381	23.79	ppm	94
87) Butyl stearate	13.871	56	508953	24.45	ppm	99
88) Benzo[a]anthracene	14.475	228	1322437	23.43	ppm	99
89) 3,3'-Dichlorobenzidine	14.480	252	480915	24.23	ppm	100
90) Chrysene	14.534	228	1297630	24.08	ppm	99
91) bis(2-Ethylhexyl)phtha...	14.662	149	961270	22.29	ppm	99
93) Di-n-octylphthalate	15.657	149	1572391	22.77	ppm	99
94) Benzo[b]fluoranthene	16.080	252	1398553	23.44	ppm	99
95) Benzo[k]fluoranthene	16.122	252	1365517	23.82	ppm	99
96) Benzo[a]pyrene	16.524	252	1217615	24.02	ppm	99
97) Indeno[1,2,3-cd]pyrene	18.005	276	1263496m	23.55	ppm	
98) Dibenz(a,h)acridine	17.700	279	1167470	24.43	ppm	99
99) Dibenz[a,h]anthracene	18.048	278	1370201	24.48	ppm	100
100) 7,12-Dimethylbenz(a)an...	16.085	256	616301	25.12	ppm	98
101) Benzo[g,h,i]perylene	18.390	276	1365572	24.83	ppm	98

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

7.6.34

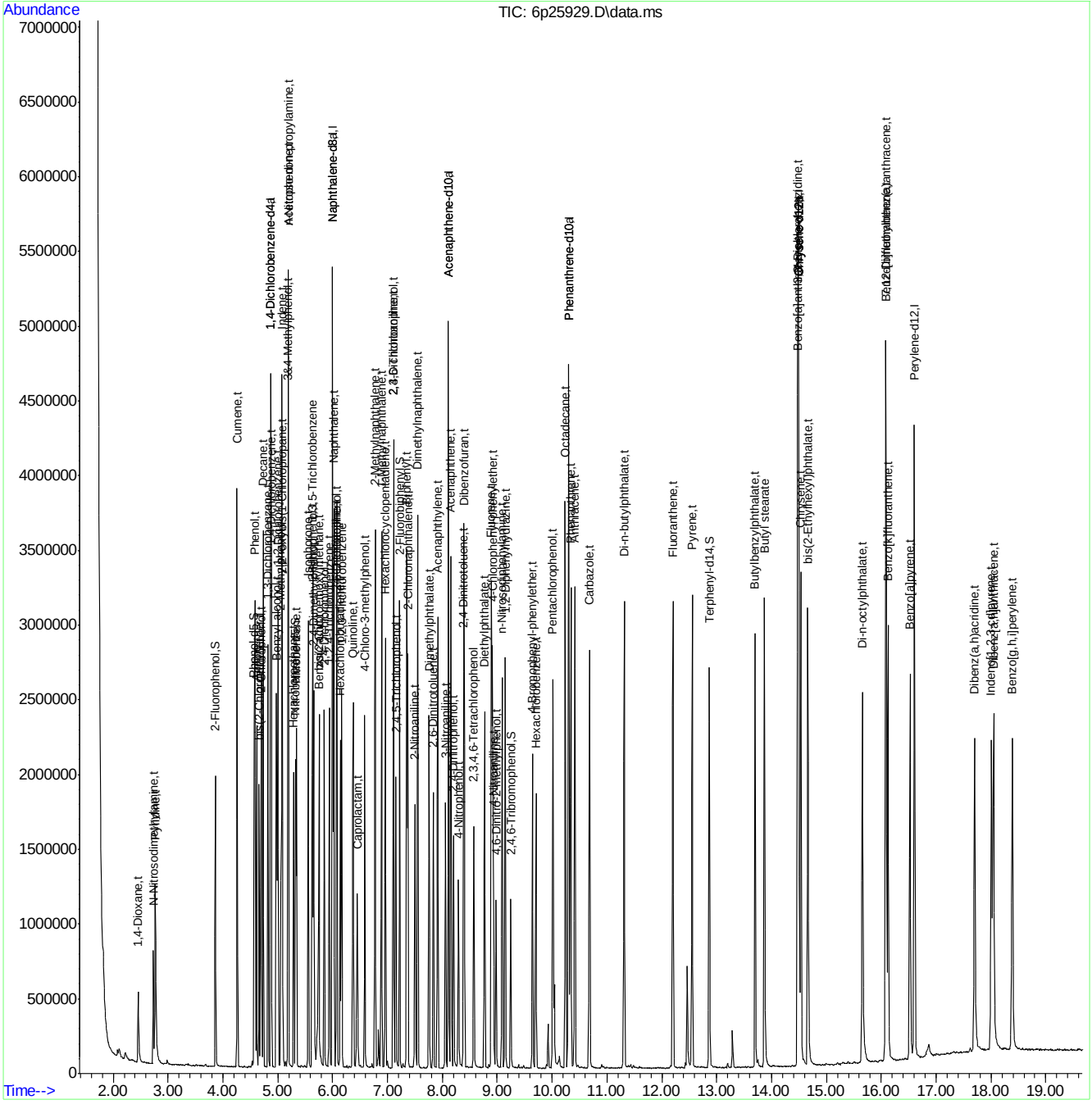
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:04:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration



Manual Integration Approval Summary

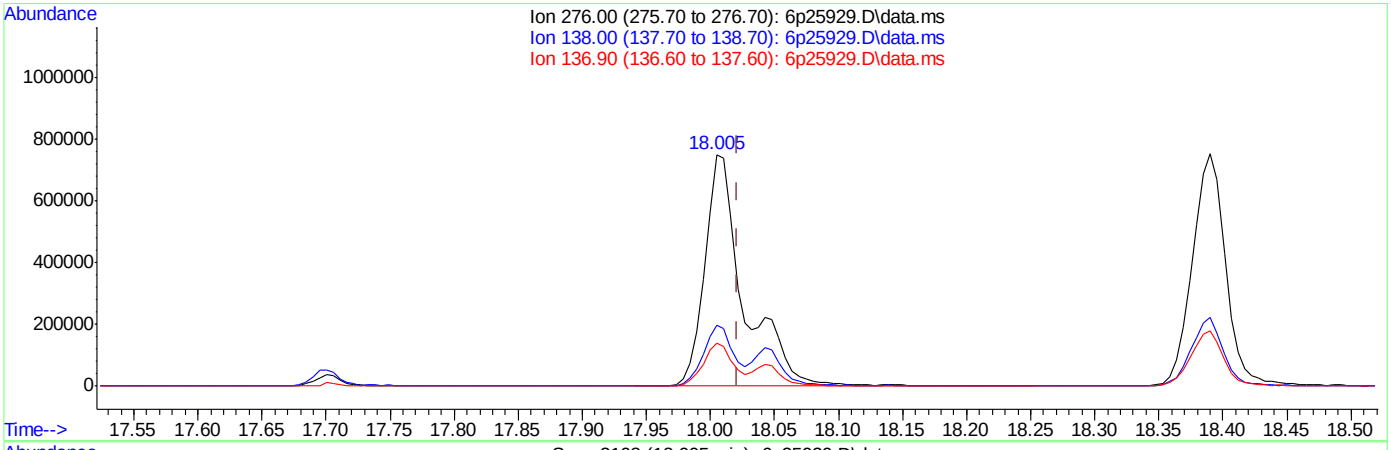
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25929.D	**Analyst approved:**	05/16/16 09:29 Arielle Cocozza
Injection Time:	05/13/16 11:42	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

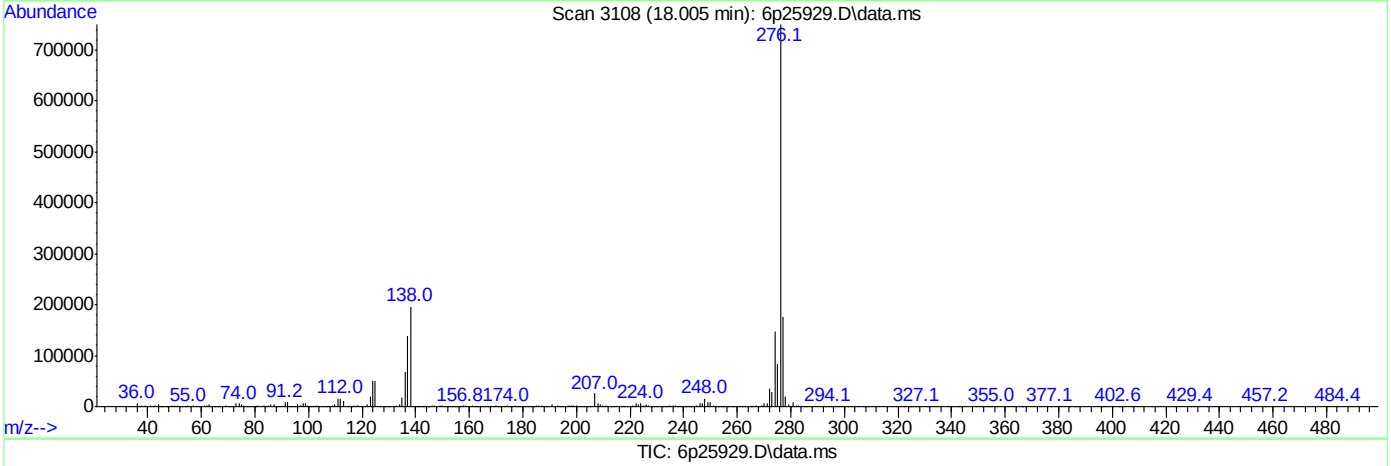
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.01	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration





TIC: 6p25929.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (-0.016) 30.11ppm

response 1615485

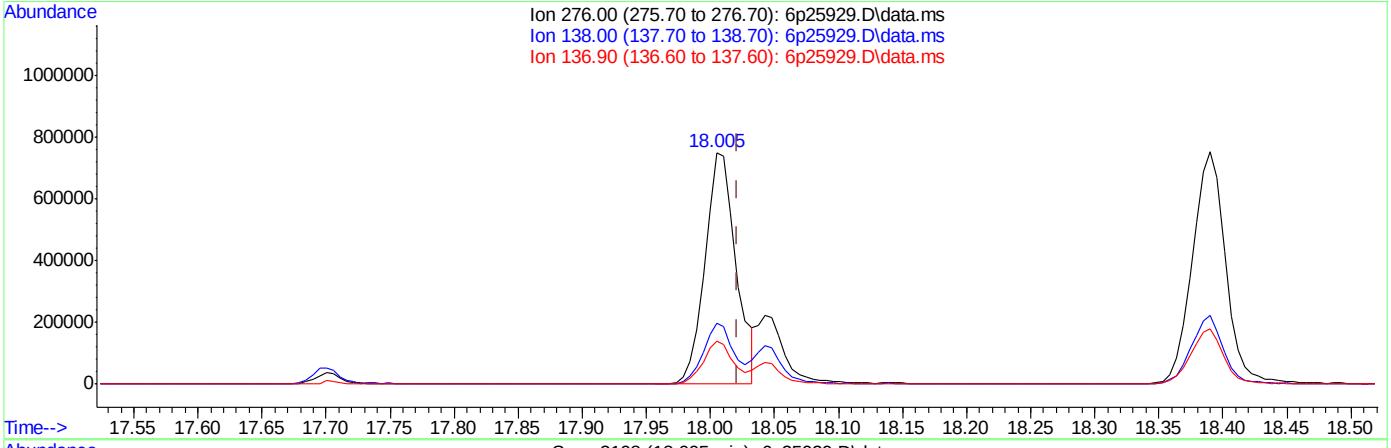
Ion	Exp%	Act%
276.00	100	100
138.00	27.30	26.19
136.90	18.00	18.47
0.00	0.00	0.00

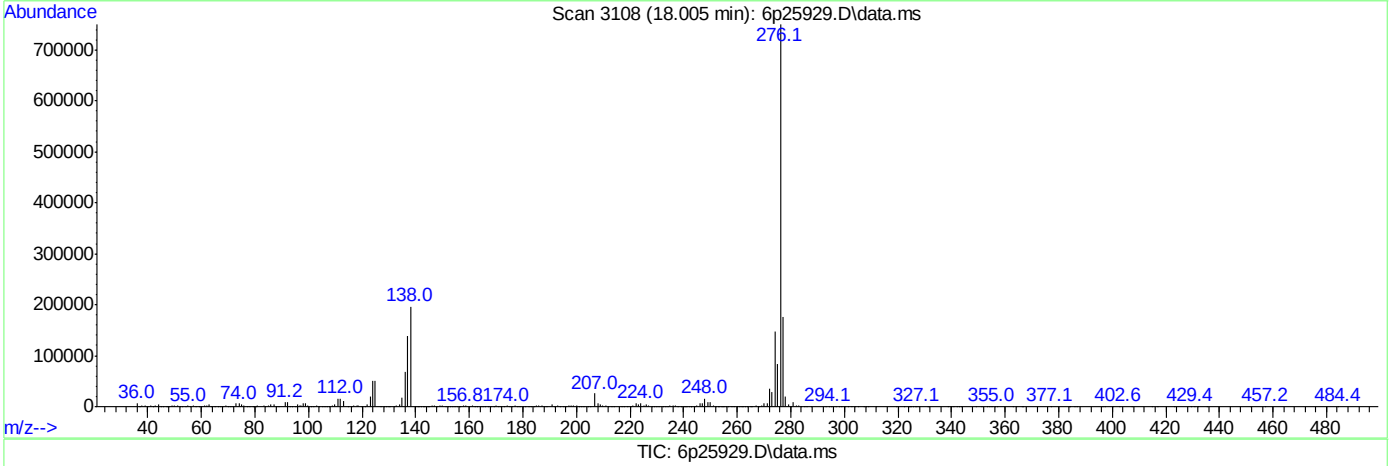
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25929.D
Acq On : 13 May 2016 11:42 am
Operator : ariellec
Sample : ic1209-25
Misc : op93693,e6p1209
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 12:02:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 11:39:12 2016
QLast Update : Fri May 13 11:39:12 2016
Response via : Initial Calibration





TIC: 6p25929.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (-0.016) 23.55ppm m

response 1263496

Ion	Exp%	Act%
276.00	100	100
138.00	27.30	26.24
136.90	18.00	18.52
0.00	0.00	0.00

SGS ACCUTEST JC21229

6P25930.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
05/16/16 18:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	511515	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2143031	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1232823	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2007725	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1885056	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1790617	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	511515	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1232823	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2007725	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1885056	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2143031	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1885056	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	180814	9.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.54%	
8) Phenol-d5	4.569	99	245435	9.62	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.24%	
25) Nitrobenzene-d5	5.323	82	231128	9.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.34%	
51) 2-Fluorobiphenyl	7.217	172	371251	9.34	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.68%	
73) 2,4,6-Tribromophenol	9.244	330	45836	9.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.22%	
85) Terphenyl-d14	12.865	244	374637	9.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.96%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.456	88	81742	9.00	ppm	99
3) Pyridine	2.767	79	219240	9.54	ppm	97
4) N-Nitrosodimethylamine	2.735	74	126885	9.24	ppm	99
6) Indene	5.072	116	336803	9.68	ppm	99
7) Cumene	4.259	105	474693	9.61	ppm	99
9) Phenol	4.580	94	255009	9.32	ppm	87
10) Aniline	4.607	93	303377	9.78	ppm	98
11) bis(2-Chloroethyl)ether	4.660	93	187058	9.62	ppm	94
12) 2-Chlorophenol	4.698	128	191818	9.67	ppm	98
13) Decane	4.730	43	244126	9.59	ppm	96
14) 1,3-Dichlorobenzene	4.821	146	198554	9.56	ppm	98
15) 1,4-Dichlorobenzene	4.879	146	202916	9.64	ppm	97
16) Benzyl alcohol	4.970	108	131034	9.67	ppm	96
17) 1,2-Dichlorobenzene	5.002	146	188757	9.47	ppm	97
18) Acetophenone	5.190	105	283353	9.86	ppm	95
19) 2-Methylphenol	5.056	108	181762	9.62	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.083	121	65581	9.42	ppm #	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.179	108	189129	9.49	ppm	96
22) n-Nitroso-di-n-propyla...	5.190	70	164562	9.61	ppm	98
23) Hexachloroethane	5.286	201	59652	9.51	ppm	93
26) Nitrobenzene	5.339	77	240927	9.65	ppm	98
27) Quinoline	6.366	129	379947	9.51	ppm	99
28) Isophorone	5.548	82	404886	9.56	ppm	98
29) 2-Nitrophenol	5.623	139	101807	9.65	ppm	93
30) 2,4-Dimethylphenol	5.650	107	181012	9.25	ppm	95
31) Benzoic acid	5.714	105	86995	8.10	ppm	98
32) bis(2-Chloroethoxy)met...	5.746	93	226920	9.48	ppm	99
33) 2,4-Dichlorophenol	5.847	162	139961	9.30	ppm	97
34) 2,6-Dichlorophenol	6.072	162	137142	9.48	ppm	98
35) 1,3,5-Trichlorobenzene	5.634	180	160652	9.72	ppm	98
36) 1,2,4-Trichlorobenzene	5.938	180	150253	9.50	ppm	94
37) 1,2,3-Trichlorobenzene	6.163	180	146863	9.44	ppm	99
38) Naphthalene	6.019	128	575498	9.52	ppm	99
39) 4-Chloroaniline	6.067	127	236341	9.58	ppm	97
40) 2,3-Dichloroaniline	7.110	161	179113	9.60	ppm	97
41) Caprolactam	6.425	55	92645	9.13	ppm	94
42) Hexachlorobutadiene	6.142	225	78171	9.68	ppm	99
43) 4-Chloro-3-methylphenol	6.580	107	174789	9.39	ppm	97
44) 2-Methylnaphthalene	6.773	141	315761	9.73	ppm	96
45) 1-Methylnaphthalene	6.890	141	326562	9.80	ppm	99
46) Dimethylnaphthalene	7.548	156	332418	9.78	ppm	98
48) Hexachlorocyclopentadiene	6.955	237	157385	18.22	ppm	98
49) 2,4,6-Trichlorophenol	7.104	196	94385	9.43	ppm	97
50) 2,4,5-Trichlorophenol	7.147	196	101174	9.21	ppm	97
52) 2-Chloronaphthalene	7.366	162	330629	9.40	ppm	99
53) Biphenyl	7.345	154	441606	9.34	ppm	98
54) 2-Nitroaniline	7.495	65	118857	9.27	ppm	91
55) Dimethylphthalate	7.757	163	384481	9.36	ppm	99
56) Acenaphthylene	7.912	152	560728	9.51	ppm	98
57) 2,6-Dinitrotoluene	7.832	165	80623	9.58	ppm	93
58) 3-Nitroaniline	8.051	138	104298	9.71	ppm	92
59) Acenaphthene	8.153	153	349814	9.40	ppm	97
60) 2,4-Dinitrophenol	8.196	184	53289	17.05	ppm	85
61) 4-Nitrophenol	8.286	109	56027	8.88	ppm	94
62) Dibenzofuran	8.399	168	474565	9.59	ppm	98
63) 2,4-Dinitrotoluene	8.388	165	108914	9.64	ppm	93
64) 2,3,4,6-Tetrachlorophenol	8.570	232	69095	8.87	ppm	97
65) Diethylphthalate	8.768	149	393446	9.41	ppm	100
66) Fluorene	8.891	166	392543	9.48	ppm	100
67) 4-Chlorophenyl-phenyle...	8.912	204	179661	9.65	ppm	94
68) 4-Nitroaniline	8.923	138	108005	9.60	ppm	97
70) 4,6-Dinitro-2-methylph...	8.971	198	41065	8.83	ppm	97
71) n-Nitrosodiphenylamine	9.083	169	269753	9.62	ppm	97
72) 1,2-Diphenylhydrazine	9.142	77	486851	9.65	ppm	99
74) 4-Bromophenyl-phenylether	9.640	248	95390	9.45	ppm	99
75) Hexachlorobenzene	9.698	284	105780	9.59	ppm	82
76) Pentachlorophenol	10.009	266	101461	16.52	ppm	96

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	10.335	178	552341	9.49 ppm	99
78) Anthracene	10.415	178	544897	9.44 ppm	99
79) Carbazole	10.683	167	508719	9.37 ppm	100
80) Di-n-butylphthalate	11.314	149	638289	9.34 ppm	100
81) Fluoranthene	12.202	202	578481	9.36 ppm	96
82) Octadecane	10.239	57	292199	9.73 ppm	97
84) Pyrene	12.549	202	603858	9.44 ppm	99
86) Butylbenzylphthalate	13.699	149	236009	8.38 ppm	89
87) Butyl stearate	13.870	56	171851	8.53 ppm	97
88) Benzo[a]anthracene	14.475	228	501605	8.96 ppm	98
89) 3,3'-Dichlorobenzidine	14.480	252	169491	8.81 ppm	99
90) Chrysene	14.528	228	506338	9.33 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.662	149	319898	8.00 ppm	99
93) Di-n-octylphthalate	15.657	149	464343	7.58 ppm	99
94) Benzo[b]fluoranthene	16.079	252	514336	9.09 ppm	100
95) Benzo[k]fluoranthene	16.117	252	514560	9.13 ppm	100
96) Benzo[a]pyrene	16.518	252	432564	8.94 ppm	99
97) Indeno[1,2,3-cd]pyrene	18.005	276	396955m	8.07 ppm	
98) Dibenz(a,h)acridine	17.700	279	373655	8.48 ppm	99
99) Dibenz[a,h]anthracene	18.042	278	473046	8.88 ppm	98
100) 7,12-Dimethylbenz(a)an...	16.079	256	210003	8.88 ppm	96
101) Benzo[g,h,i]perylene	18.379	276	476300	8.93 ppm	99

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

7.6.35

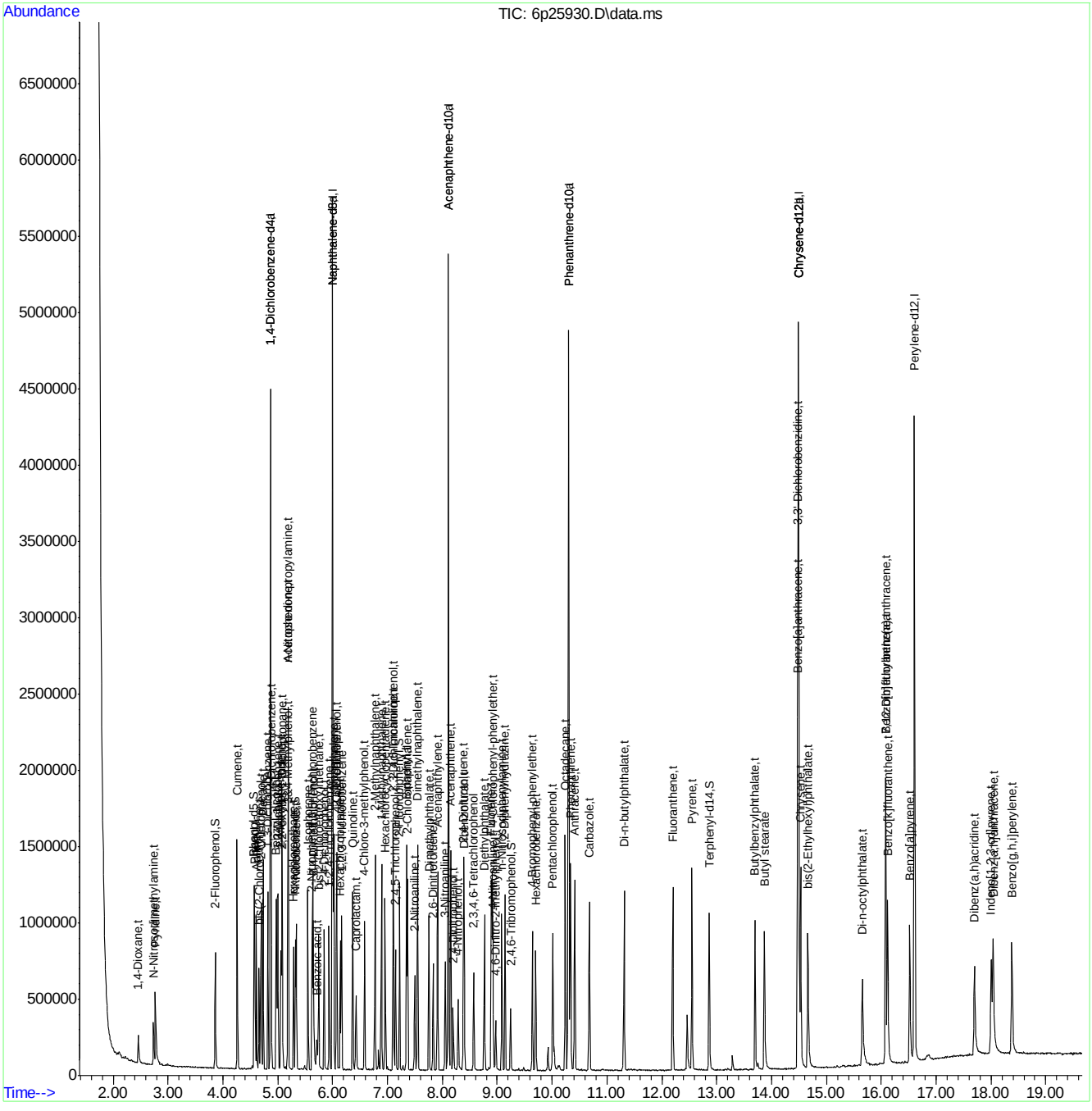
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 17:17:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

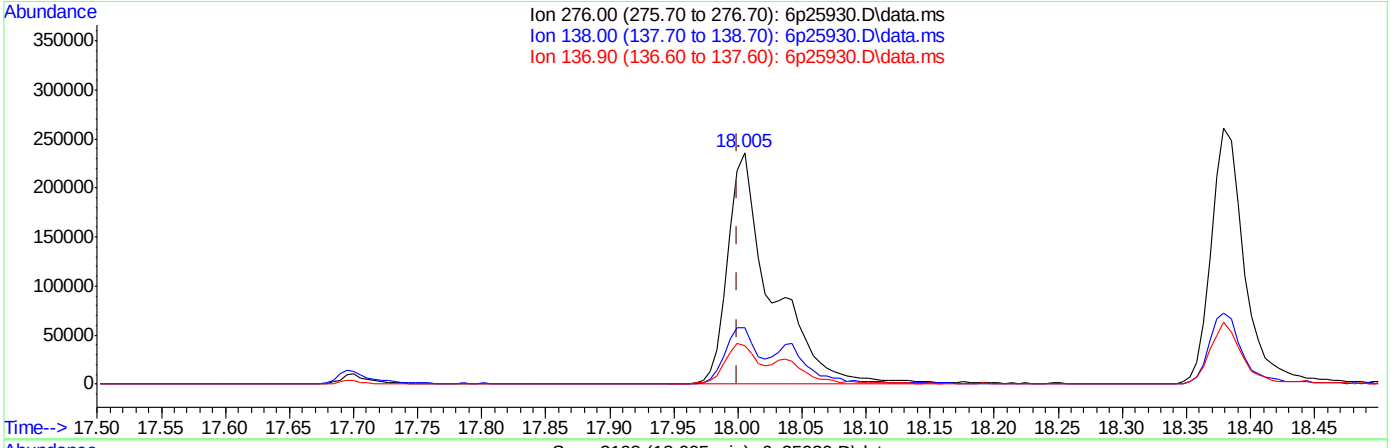
Sample Number:	E6P1209-IC1209	**Method:**	SW846 8270D
Lab FileID:	6P25930.D	**Analyst approved:**	05/16/16 18:10 Arielle Cocozza
Injection Time:	05/13/16 12:09	**Supervisor approved:**	05/16/16 18:39 Nina Pandya

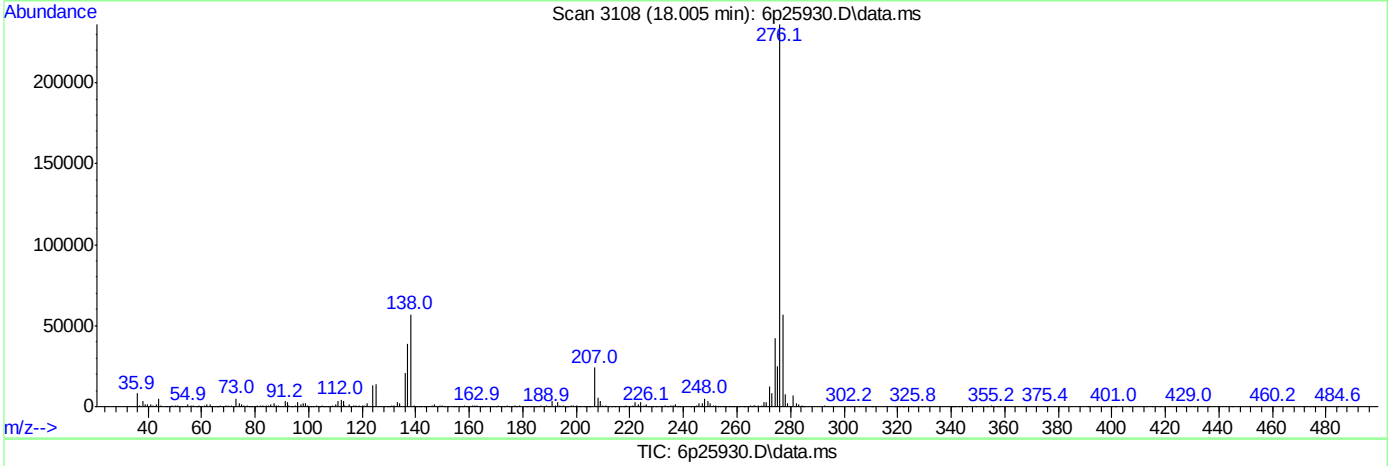
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		18.00	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 13:21:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration





(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (+0.005) 11.45ppm

response 563156

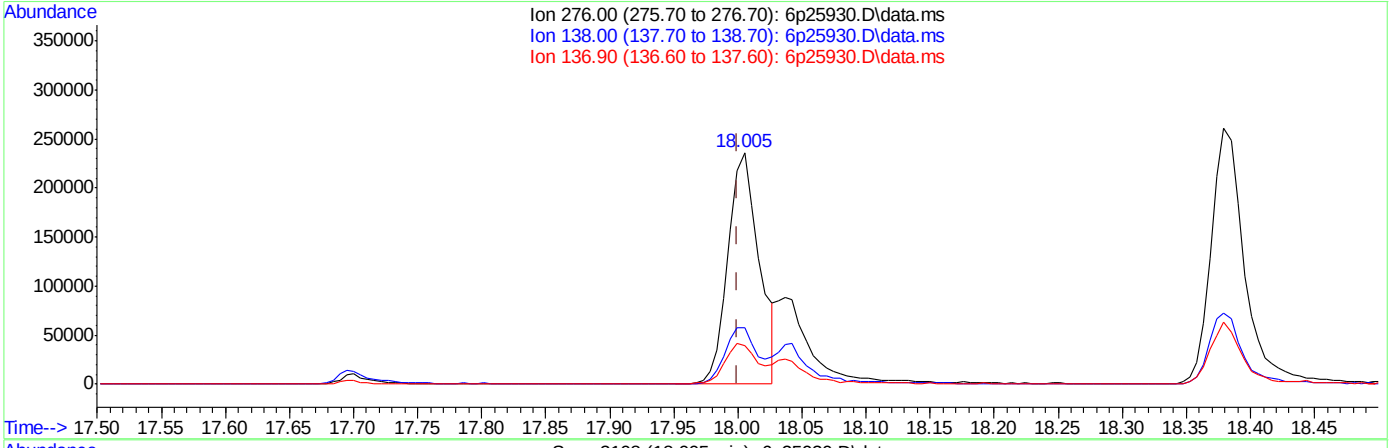
Ion	Exp%	Act%
276.00	100	100
138.00	27.30	23.86
136.90	18.00	16.37
0.00	0.00	0.00

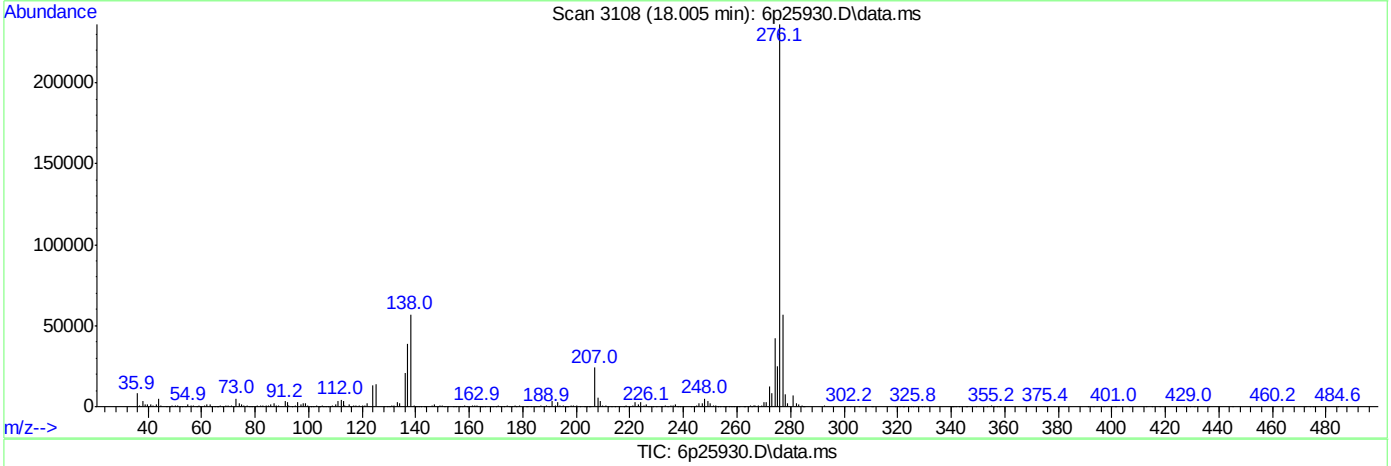
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25930.D
Acq On : 13 May 2016 12:09 pm
Operator : ariellec
Sample : ic1209-10
Misc : op93693,e6p1209
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 13:21:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:19:46 2016
QLast Update : Fri May 13 13:19:46 2016
Response via : Initial Calibration





TIC: 6p25930.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

18.005min (+0.005) 8.07ppm m

response 396955

Ion	Exp%	Act%
276.00	100	100
138.00	27.30	24.19
136.90	18.00	16.49
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	479724	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1970250	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1118862	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1811110	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1677495	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1605013	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	479724	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1118862	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1811110	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1677495	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1970250	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1677495	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.858	112	98632	5.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.78%	
8) Phenol-d5	4.569	99	131324	5.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.98%	
25) Nitrobenzene-d5	5.323	82	121050	5.51	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.02%	
51) 2-Fluorobiphenyl	7.217	172	196997	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
73) 2,4,6-Tribromophenol	9.239	330	21772	4.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.60%	
85) Terphenyl-d14	12.865	244	185612	5.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.56%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.457	88	43153	5.05	ppm	95
3) Pyridine	2.772	79	113567	5.24	ppm	98
4) N-Nitrosodimethylamine	2.735	74	66635	5.17	ppm	97
6) Indene	5.072	116	182859	5.60	ppm	99
7) Cumene	4.259	105	255466	5.52	ppm	99
9) Phenol	4.580	94	134079	5.22	ppm	89
10) Aniline	4.607	93	166606	5.72	ppm	98
11) bis(2-Chloroethyl)ether	4.655	93	99833	5.47	ppm	99
12) 2-Chlorophenol	4.698	128	99662	5.36	ppm	97
13) Decane	4.730	43	132579	5.56	ppm	97
14) 1,3-Dichlorobenzene	4.821	146	107838	5.54	ppm	96
15) 1,4-Dichlorobenzene	4.879	146	110047	5.58	ppm	100
16) Benzyl alcohol	4.970	108	68592	5.39	ppm	98
17) 1,2-Dichlorobenzene	5.002	146	101031	5.40	ppm	97
18) Acetophenone	5.190	105	152719	5.66	ppm	97
19) 2-Methylphenol	5.056	108	95218	5.38	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.083	121	35648	5.46	ppm #	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.179	108	100609	5.38	ppm	97
22) n-Nitroso-di-n-propyla...	5.184	70	88966	5.54	ppm	96
23) Hexachloroethane	5.286	201	31884	5.42	ppm	94
26) Nitrobenzene	5.339	77	128904	5.61	ppm	99
27) Quinoline	6.366	129	201143	5.48	ppm	98
28) Isophorone	5.548	82	217277	5.58	ppm	99
29) 2-Nitrophenol	5.623	139	52899	5.46	ppm	93
30) 2,4-Dimethylphenol	5.650	107	98777	5.49	ppm	97
31) Benzoic acid	5.698	105	40272	4.04	ppm	87
32) bis(2-Chloroethoxy)met...	5.746	93	120667	5.48	ppm	99
33) 2,4-Dichlorophenol	5.848	162	74704	5.40	ppm	97
34) 2,6-Dichlorophenol	6.072	162	71316	5.36	ppm	94
35) 1,3,5-Trichlorobenzene	5.634	180	83631	5.51	ppm	98
36) 1,2,4-Trichlorobenzene	5.933	180	78413	5.39	ppm	95
37) 1,2,3-Trichlorobenzene	6.163	180	78571	5.49	ppm	96
38) Naphthalene	6.019	128	304848	5.48	ppm	99
39) 4-Chloroaniline	6.067	127	124905	5.51	ppm	97
40) 2,3-Dichloroaniline	7.104	161	93629	5.46	ppm	98
41) Caprolactam	6.415	55	48061	5.14	ppm	94
42) Hexachlorobutadiene	6.142	225	39932	5.38	ppm	100
43) 4-Chloro-3-methylphenol	6.580	107	88861	5.19	ppm	97
44) 2-Methylnaphthalene	6.773	141	166974	5.60	ppm	96
45) 1-Methylnaphthalene	6.885	141	168436	5.50	ppm	99
46) Dimethylnaphthalene	7.548	156	169419	5.42	ppm	100
48) Hexachlorocyclopentadiene	6.955	237	82620	10.54	ppm	98
49) 2,4,6-Trichlorophenol	7.104	196	49335	5.43	ppm	97
50) 2,4,5-Trichlorophenol	7.147	196	51888	5.18	ppm	95
52) 2-Chloronaphthalene	7.367	162	176861	5.54	ppm	97
53) Biphenyl	7.345	154	236367	5.51	ppm	99
54) 2-Nitroaniline	7.495	65	58157	5.00	ppm	94
55) Dimethylphthalate	7.752	163	202932	5.45	ppm	98
56) Acenaphthylene	7.912	152	294250	5.50	ppm	98
57) 2,6-Dinitrotoluene	7.827	165	41766	5.47	ppm	98
58) 3-Nitroaniline	8.051	138	52959	5.43	ppm	90
59) Acenaphthene	8.153	153	179730	5.32	ppm	97
60) 2,4-Dinitrophenol	8.196	184	21338	7.52	ppm	70
61) 4-Nitrophenol	8.287	109	27421	4.77	ppm	91
62) Dibenzofuran	8.394	168	242289	5.40	ppm	96
63) 2,4-Dinitrotoluene	8.383	165	54915	5.36	ppm	92
64) 2,3,4,6-Tetrachlorophenol	8.570	232	35231	4.98	ppm	99
65) Diethylphthalate	8.763	149	203624	5.37	ppm	98
66) Fluorene	8.886	166	202935	5.40	ppm	99
67) 4-Chlorophenyl-phenyle...	8.912	204	93024	5.50	ppm	97
68) 4-Nitroaniline	8.918	138	53989	5.29	ppm	96
70) 4,6-Dinitro-2-methylph...	8.971	198	18810	4.49	ppm	99
71) n-Nitrosodiphenylamine	9.084	169	136671	5.40	ppm	96
72) 1,2-Diphenylhydrazine	9.142	77	251739	5.53	ppm	99
74) 4-Bromophenyl-phenylether	9.640	248	48384	5.31	ppm	98
75) Hexachlorobenzene	9.699	284	52923	5.32	ppm	86
76) Pentachlorophenol	10.009	266	48339	8.71	ppm	99

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	10.335	178	282865	5.39	ppm	99
78)	Anthracene	10.415	178	276916	5.32	ppm	99
79)	Carbazole	10.677	167	262809	5.36	ppm	100
80)	Di-n-butylphthalate	11.314	149	317486	5.15	ppm	99
81)	Fluoranthene	12.196	202	291046	5.22	ppm	98
82)	Octadecane	10.239	57	142306	5.25	ppm	98
84)	Pyrene	12.549	202	307149	5.39	ppm	100
86)	Butylbenzylphthalate	13.699	149	107629	4.29	ppm	90
87)	Butyl stearate	13.871	56	77932	4.35	ppm	99
88)	Benzo[a]anthracene	14.475	228	254234	5.11	ppm	100
89)	3,3'-Dichlorobenzidine	14.480	252	72587	4.24	ppm	96
90)	Chrysene	14.528	228	252612	5.22	ppm	97
91)	bis(2-Ethylhexyl)phtha...	14.662	149	132889	3.73	ppm	99
93)	Di-n-octylphthalate	15.652	149	173471	3.15	ppm	100
94)	Benzo[b]fluoranthene	16.074	252	227325	4.48	ppm	99
95)	Benzo[k]fluoranthene	16.112	252	270494	5.35	ppm	98
96)	Benzo[a]pyrene	16.518	252	200381	4.62	ppm	98
97)	Indeno[1,2,3-cd]pyrene	18.000	276	170566	3.81	ppm	94
98)	Dibenz(a,h)acridine	17.695	279	144479	3.61	ppm	98
99)	Dibenz[a,h]anthracene	18.042	278	211283	4.42	ppm	98
100)	7,12-Dimethylbenz(a)an...	16.080	256	100053	4.72	ppm	99
101)	Benzo[g,h,i]perylene	18.379	276	235491	4.91	ppm	97

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

7.6.36

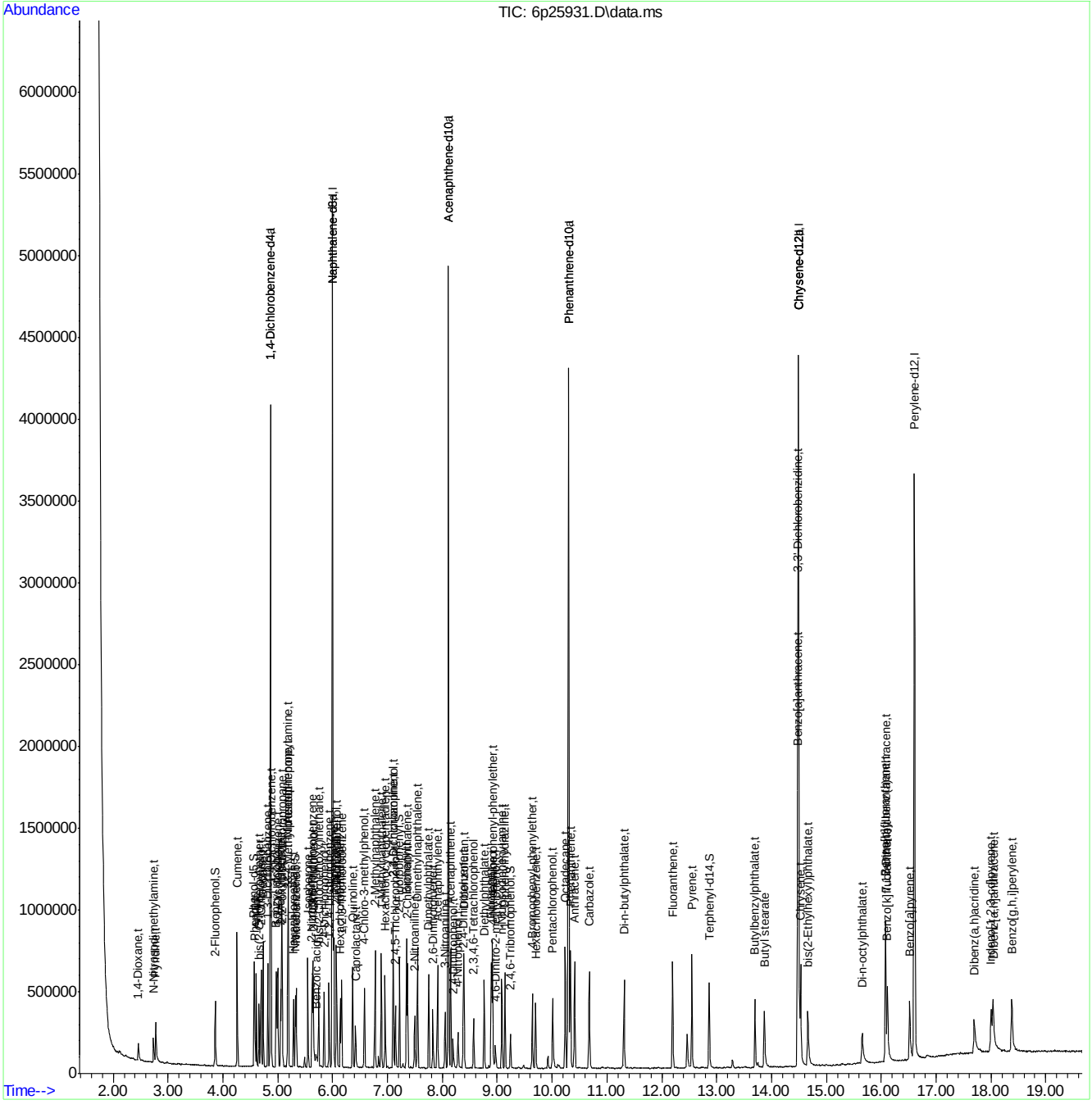
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1209\
Data File : 6p25931.D
Acq On : 13 May 2016 12:36 pm
Operator : ariellec
Sample : ic1209-5
Misc : op93693,e6p1209
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 13:27:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 13:18:38 2016
QLast Update : Fri May 13 13:18:38 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 17:16:41 2016 ACLIMS Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25938.D
Acq On : 13 May 2016 2:45 pm
Operator : ariellec
Sample : ic1210-100
Misc : op93693,e6p1210
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 15:18:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:16:50 2016
QLast Update : Fri May 13 15:16:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	419681	40.00	ppm	0.00
24) Naphthalene-d8	5.992	136	1746969	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	989027	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	1651069	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1438382	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1344005	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	419681	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	989027	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	1651069	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1438382	40.00	ppm	0.00
112) Naphthalene-d8a	5.992	136	1746969	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1438382	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.950	230	2225093	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
109) 1-Chlorooctadecane	12.148	57	1604050	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	1057823	100.00	ppm	99
105) 1,2,4,5-Tetrachloroben...	6.971	216	1166821	100.00	ppm	99
107) Atrazine	9.945	215	448468	100.00	ppm	93
111) benzidine	12.469	184	1697006	100.00	ppm	99
113) Hydroquinone	6.425	110	1717366	100.00	ppm	96

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

7.6.37

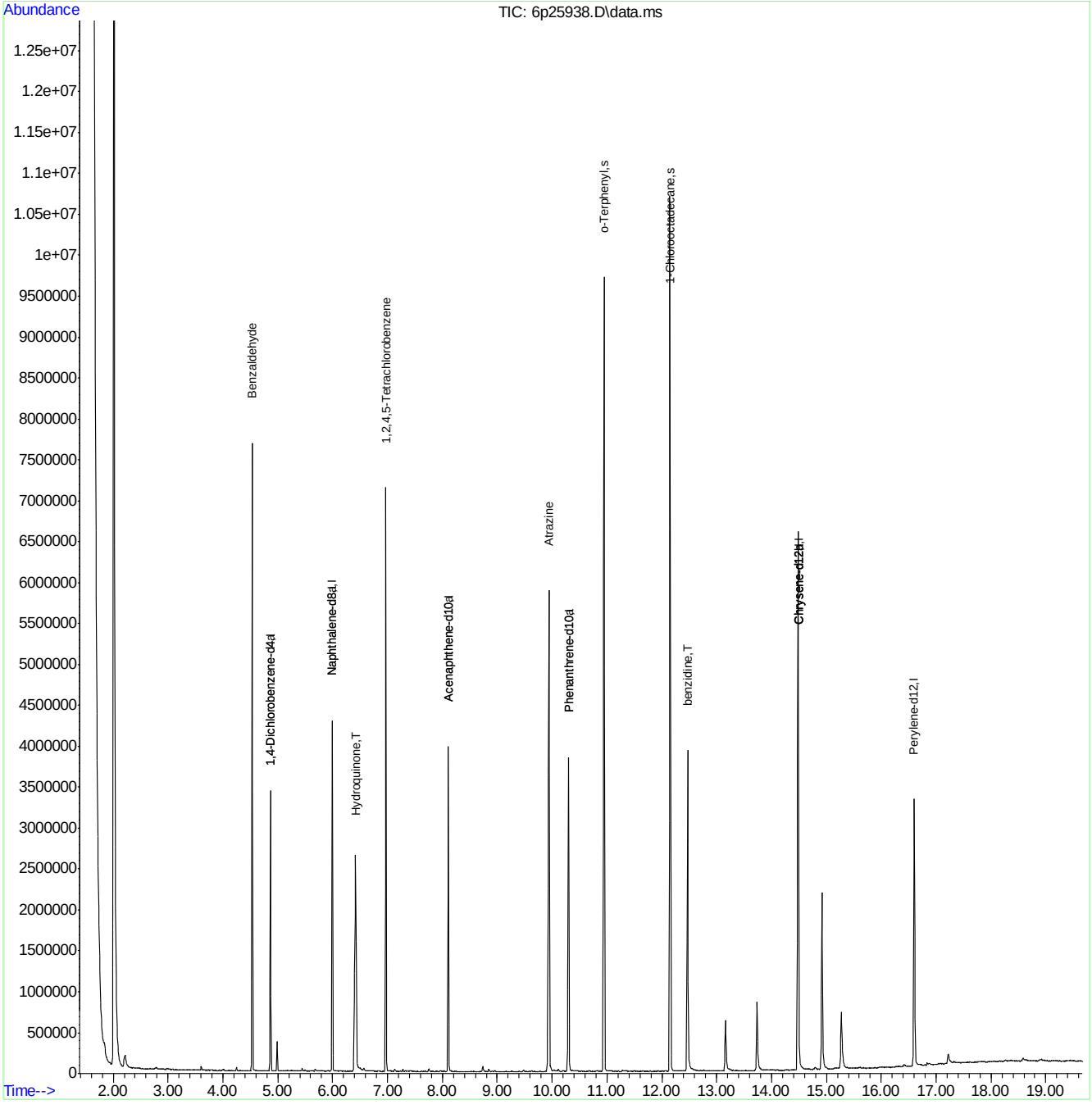
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25938.D
Acq On : 13 May 2016 2:45 pm
Operator : ariellec
Sample : ic1210-100
Misc : op93693,e6p1210
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 15:18:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:16:50 2016
QLast Update : Fri May 13 15:16:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25939.D
Acq On : 13 May 2016 3:12 pm
Operator : ariellec
Sample : ic1210-80
Misc : op93693,e6p1210
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 15:38:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:37:51 2016
QLast Update : Fri May 13 15:37:51 2016
Response via : Initial Calibration

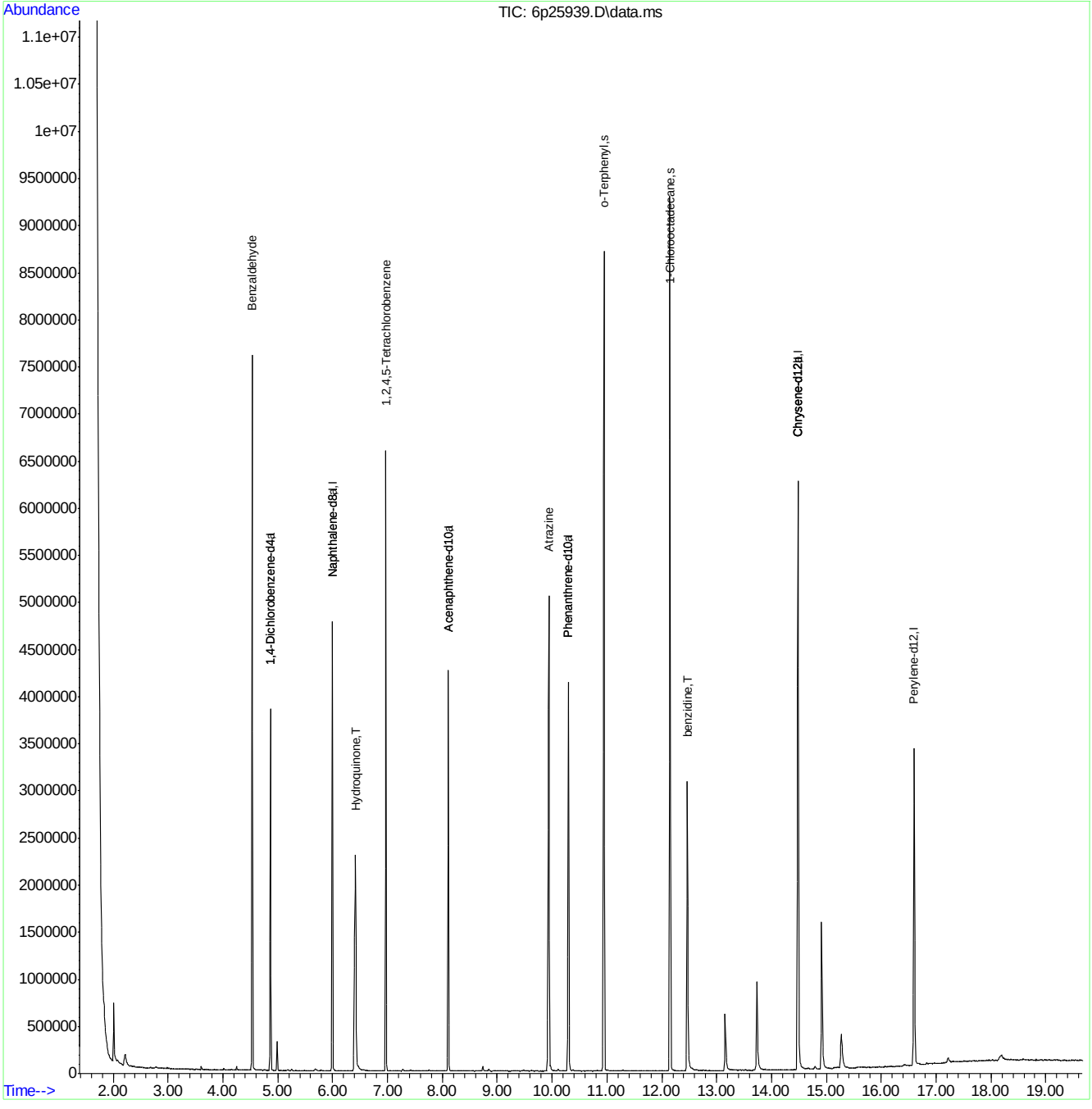
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	462190	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1917148	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1049211	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1748457	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1525130	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1348351	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	462190	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1049211	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1748457	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1525130	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1917148	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1525130	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.945	230	1883079	79.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	159.92%	
109) 1-Chlorooctadecane	12.148	57	1336158	79.32	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.64%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	1086762	86.13	ppm	99
105) 1,2,4,5-Tetrachloroben...	6.971	216	1023807	81.33	ppm	100
107) Atrazine	9.939	215	374355	79.41	ppm	89
111) benzidine	12.469	184	1461681	80.61	ppm	99
113) Hydroquinone	6.415	110	1450162	78.44	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25939.D
Acq On : 13 May 2016 3:12 pm
Operator : ariellec
Sample : ic1210-80
Misc : op93693,e6p1210
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 15:38:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 15:37:51 2016
QLast Update : Fri May 13 15:37:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25940.D
Acq On : 13 May 2016 3:40 pm
Operator : ariellec
Sample : icc1210-50
Misc : op93693,e6p1210
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:05:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

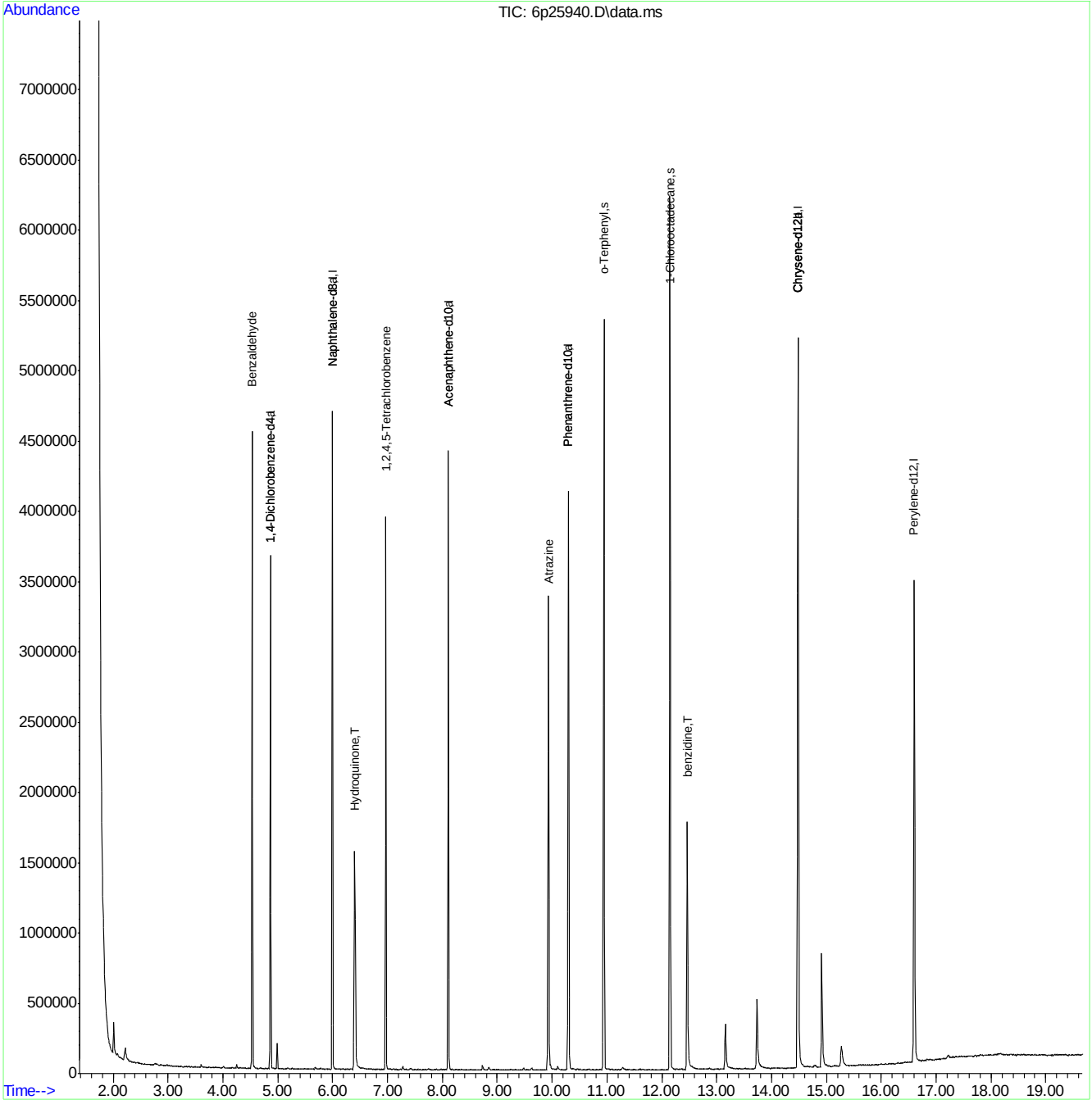
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	461004	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1895979	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1058235	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1731490	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1536148	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1384356	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	461004	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1058235	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1731490	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1536148	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1895979	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1536148	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.945	230	1185250	50.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.08%	
109) 1-Chlorooctadecane	12.148	57	850560	50.66	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.32%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	682578	52.75	ppm	100
105) 1,2,4,5-Tetrachloroben...	6.971	216	636738	50.10	ppm	100
107) Atrazine	9.939	215	233497	50.01	ppm	100
111) benzidine	12.464	184	806349	45.94	ppm	100
113) Hydroquinone	6.409	110	892442	49.20	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25940.D
Acq On : 13 May 2016 3:40 pm
Operator : ariellec
Sample : icc1210-50
Misc : op93693,e6p1210
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:05:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25941.D
Acq On : 13 May 2016 4:07 pm
Operator : ariellec
Sample : ic1210-25
Misc : op93693,e6p1210
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 07:50:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Mon May 16 07:50:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	475096	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1977392	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1140388	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1920918	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1690696	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1513827	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	475096	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1140388	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1920918	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1690696	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1977392	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1690696	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.945	230	640994	24.73	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.46%	
109) 1-Chlorooctadecane	12.143	57	460129	24.78	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.56%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	350450	25.95	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.966	216	338724	24.80	ppm	99
107) Atrazine	9.934	215	119887	23.58	ppm	97
111) benzidine	12.464	184	340384	19.02	ppm	99
113) Hydroquinone	6.399	110	475701	25.11	ppm	99

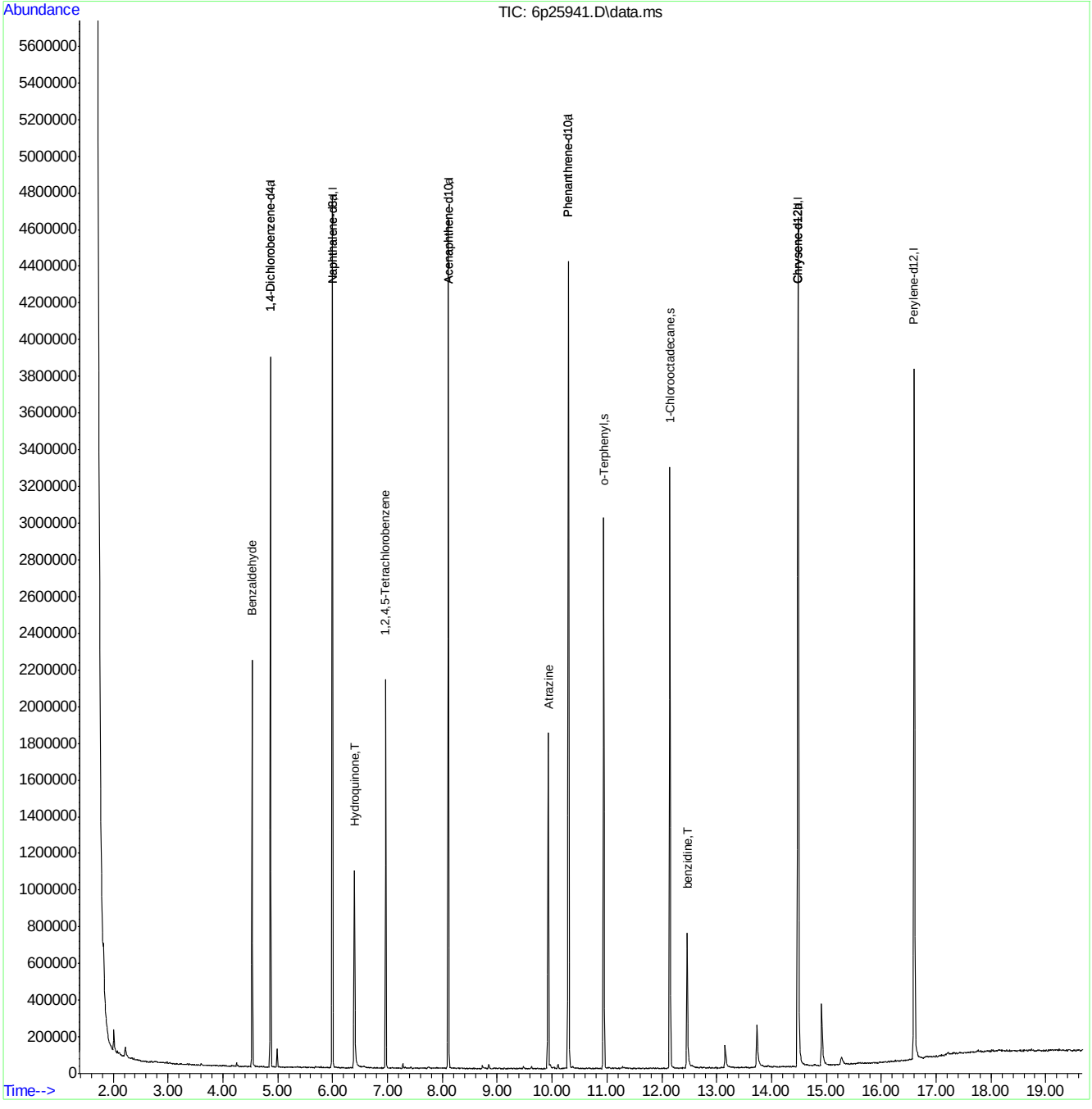
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25941.D
Acq On : 13 May 2016 4:07 pm
Operator : ariellec
Sample : ic1210-25
Misc : op93693,e6p1210
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 07:50:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Mon May 16 07:50:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25942.D
Acq On : 13 May 2016 4:35 pm
Operator : ariellec
Sample : ic1210-10
Misc : op93693,e6p1210
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 08:43:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:07:52 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.863	152	465631	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1930671	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1121111	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1879952	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1659788	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1460404	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.863	152	465631	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1121111	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1879952	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1659788	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1930671	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1659788	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.939	230	248497	9.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.16%	
109) 1-Chlorooctadecane	12.143	57	170846	9.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.74%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	134735	9.61	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.965	216	132450	9.53	ppm	98
107) Atrazine	9.929	215	41537	8.85	ppm	91
111) benzidine	12.459	184	58361	4.94	ppm	97
113) Hydroquinone	6.393	110	172179	9.43	ppm	99

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

7.6.41

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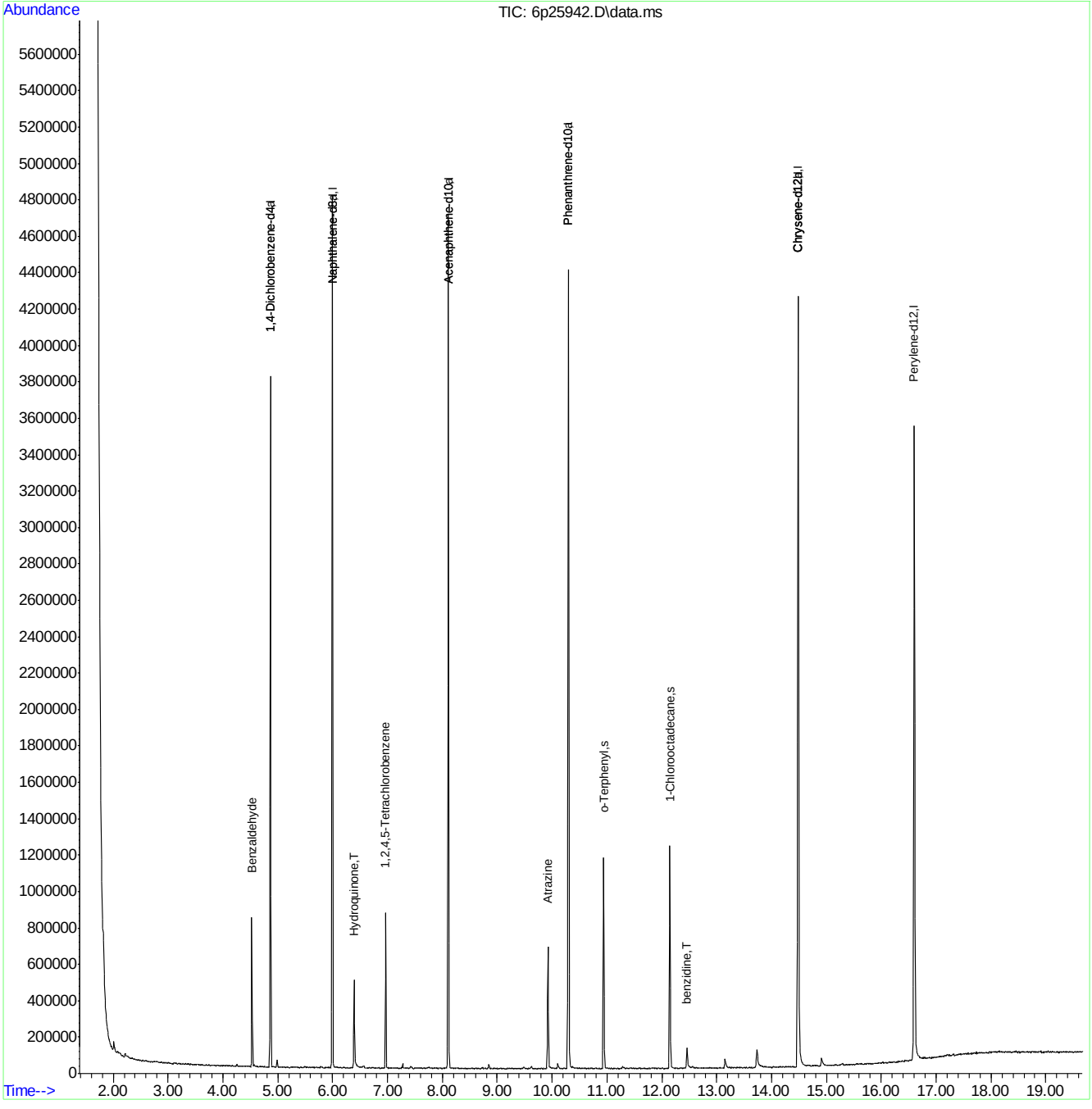
SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25942.D
Acq On : 13 May 2016 4:35 pm
Operator : ariellec
Sample : ic1210-10
Misc : op93693,e6p1210
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 16 08:43:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:07:52 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 09:24:59 2016 ACLIMS Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25943.D
Acq On : 13 May 2016 5:02 pm
Operator : ariellec
Sample : ic1210-5
Misc : op93693,e6p1210
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 08:44:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	473744	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1963288	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1137987	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1872695	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1602621	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1391117	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	473744	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1137987	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1872695	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1602621	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1963288	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1602621	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.940	230	139527	5.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.80%	
109) 1-Chlorooctadecane	12.143	57	90671	5.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.52%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	77237	5.41	ppm	98
105) 1,2,4,5-Tetrachloroben...	6.966	216	73782	5.23	ppm	99
107) Atrazine	9.923	215	23289	4.98	ppm	85
111) benzidine	12.459	184	19373	1.70	ppm	89
113) Hydroquinone	6.393	110	97163	5.23	ppm	98

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

7.6.42

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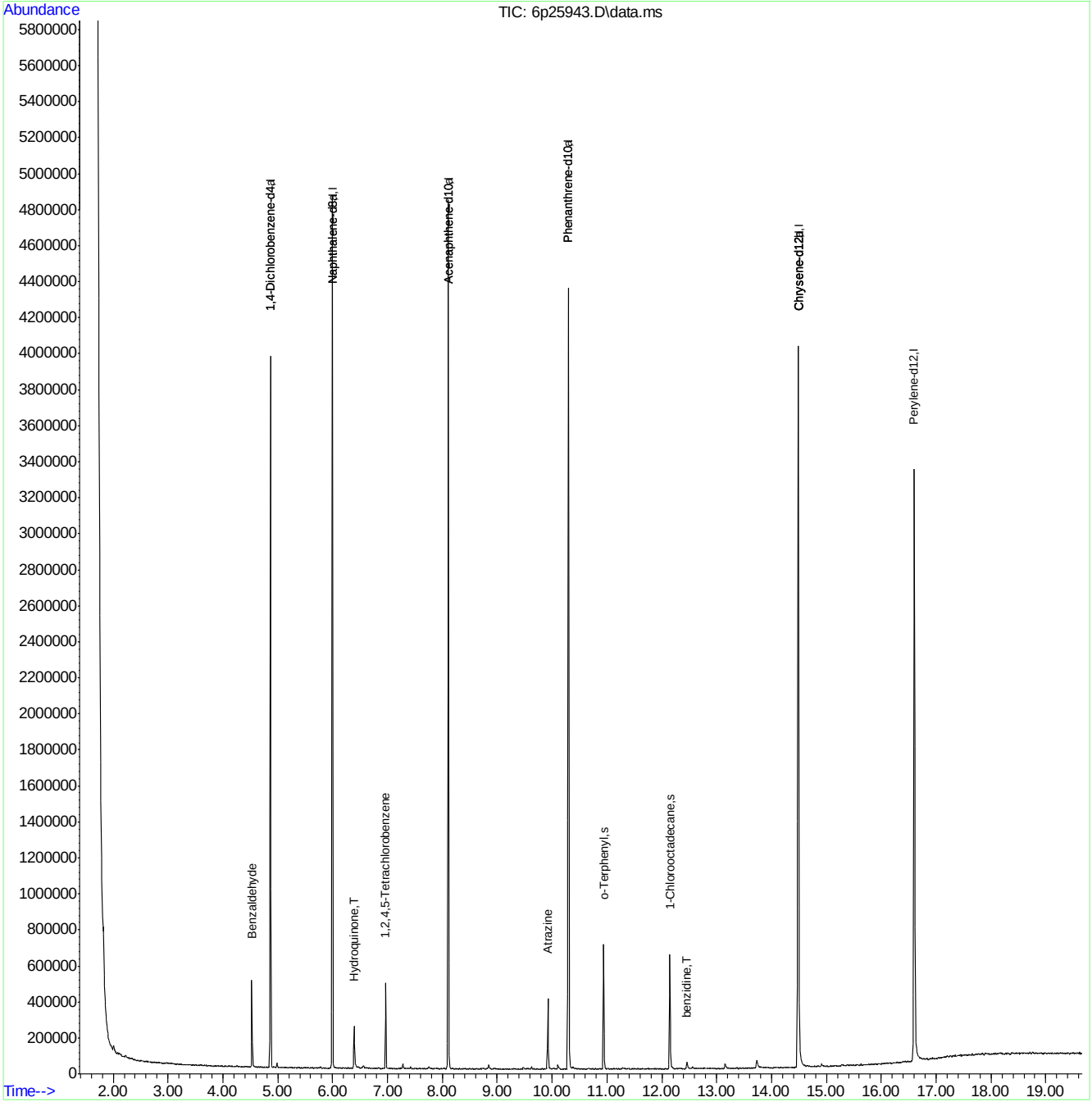
SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25943.D
Acq On : 13 May 2016 5:02 pm
Operator : ariellec
Sample : ic1210-5
Misc : op93693,e6p1210
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 08:44:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25944.D
Acq On : 13 May 2016 5:30 pm
Operator : ariellec
Sample : ic1210-2
Misc : op93693,e6p1210
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 08:45:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	443371	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1848747	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1056117	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1732123	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1501702	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1322482	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	443371	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1056117	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1732123	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1501702	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1848747	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1501702	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.939	230	48615	2.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.14%	
109) 1-Chlorooctadecane	12.143	57	28190	1.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.36%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	28853	2.32	ppm	91
105) 1,2,4,5-Tetrachloroben...	6.965	216	27762	2.19	ppm	98
107) Atrazine	9.923	215	8080	1.73	ppm	93
111) benzidine	12.458	184	3900	0.23	ppm	91
113) Hydroquinone	6.393	110	34534	1.95	ppm	95

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

7.6.43

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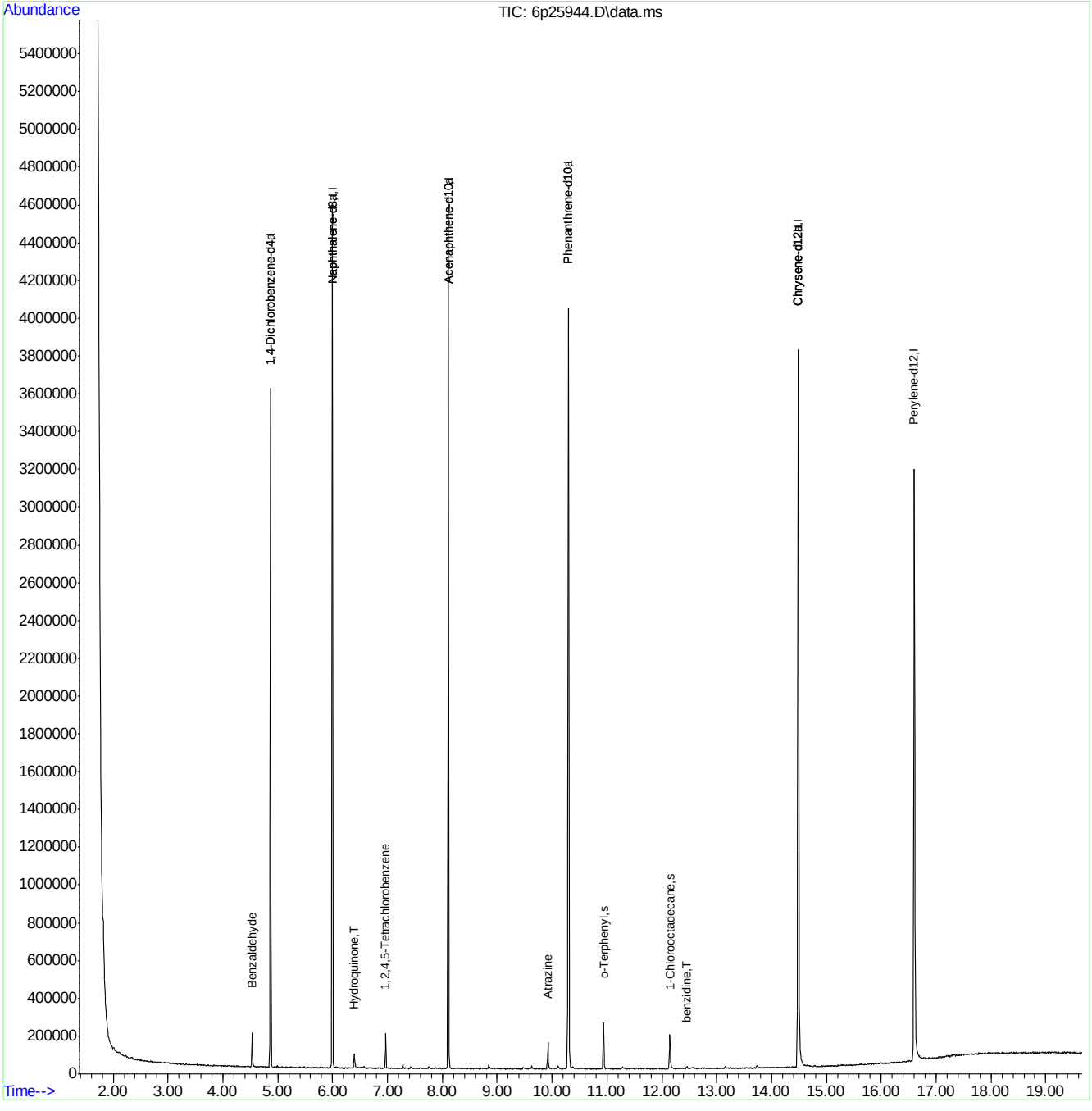
SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25944.D
Acq On : 13 May 2016 5:30 pm
Operator : ariellec
Sample : ic1210-2
Misc : op93693,e6p1210
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 16 08:45:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25945.D
Acq On : 13 May 2016 5:57 pm
Operator : ariellec
Sample : ic1210-1
Misc : op93693,e6p1210
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 08:46:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	425429	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	1758530	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1026934	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1692990	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1431450	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1254231	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.864	152	425429	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1026934	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1692990	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1431450	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	1758530	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1431450	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	10.940	230	24122	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
109) 1-Chlorooctadecane	12.143	57	13738	0.88	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.76%	
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	14111	1.10	ppm	99
105) 1,2,4,5-Tetrachloroben...	6.966	216	13689	1.08	ppm	89
107) Atrazine	9.923	215	4006	0.95	ppm	86
111) benzidine	12.459	184	2008	0.20	ppm	80
113) Hydroquinone	6.393	110	16180	0.97	ppm	97

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

7.6.44

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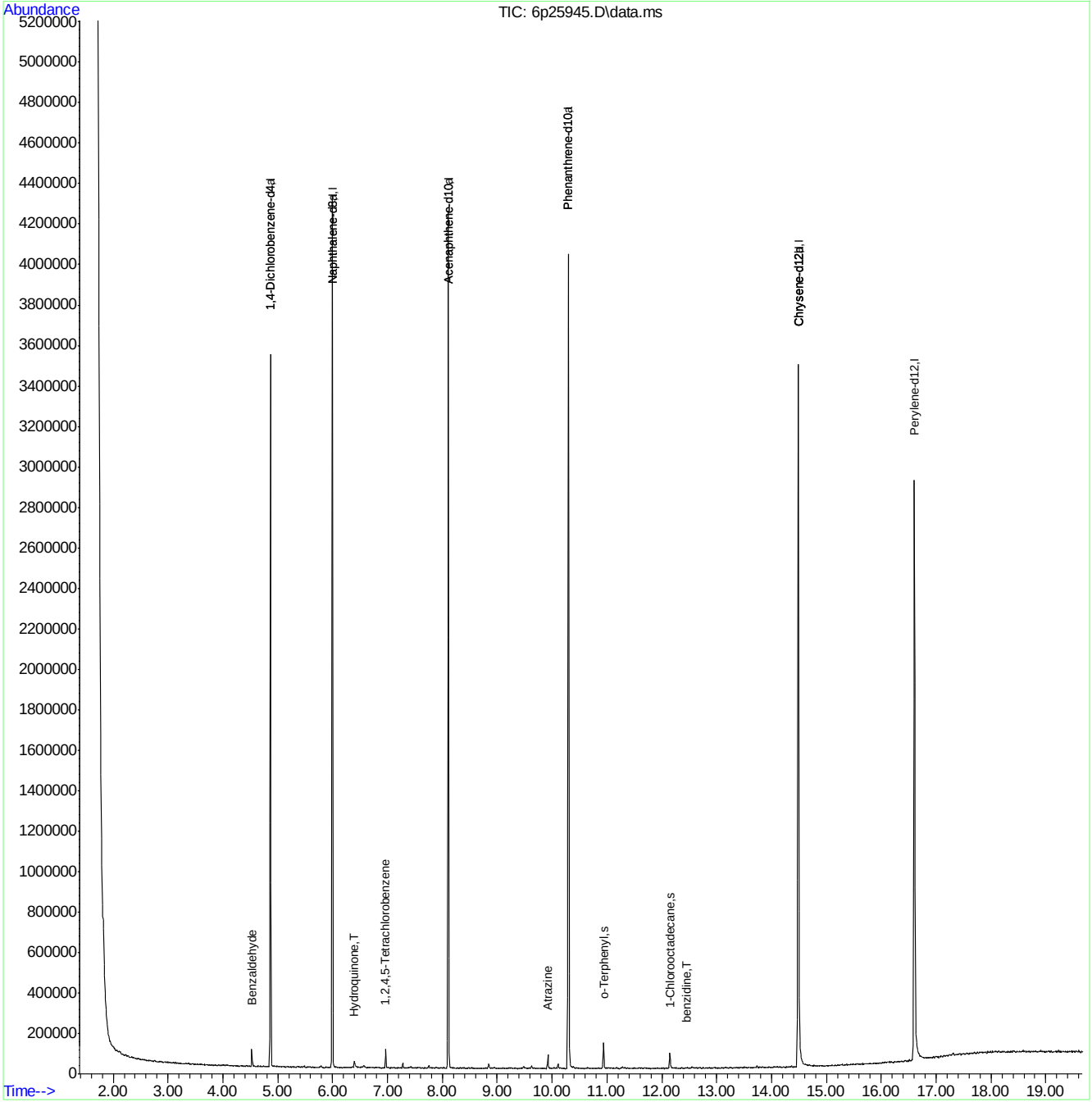
SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25945.D
Acq On : 13 May 2016 5:57 pm
Operator : ariellec
Sample : ic1210-1
Misc : op93693,e6p1210
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 08:46:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 08:09:32 2016
QLast Update : Mon May 16 08:09:32 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:53:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

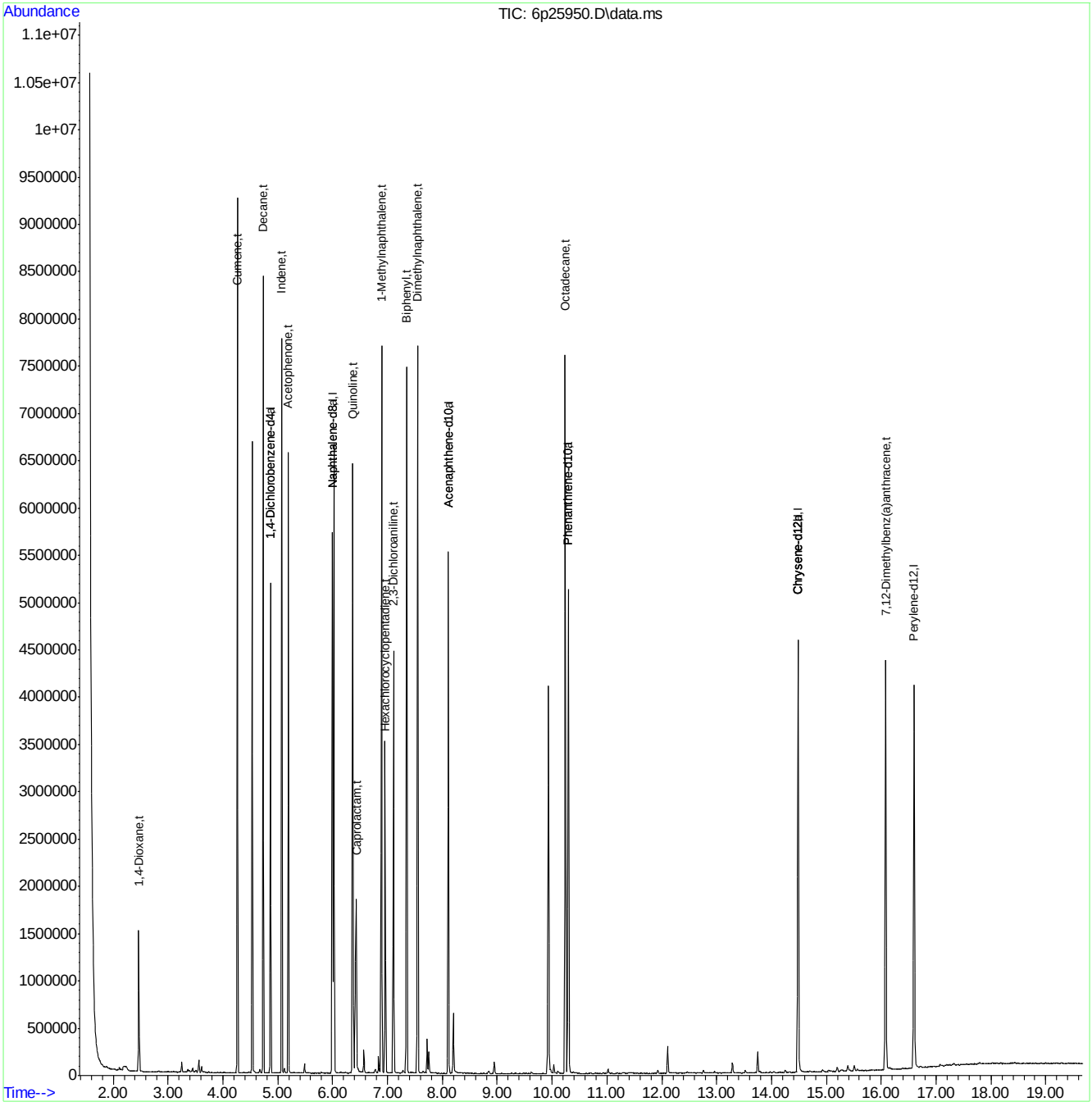
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	609564	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2508037	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1354963	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2192668	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1829789	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1596608	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	609564	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1354963	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2192668	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1829789	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2508037	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1829789	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.467	88	485226	44.83	ppm	96
6) Indene	5.072	116	1986252	47.90	ppm	100
7) Cumene	4.264	105	2704946	45.97	ppm	98
13) Decane	4.735	43	1222399	40.31	ppm	95
18) Acetophenone	5.190	105	1549761	45.28	ppm	99
27) Quinoline	6.367	129	2124400	45.42	ppm	99
40) 2,3-Dichloroaniline	7.110	161	897379	41.12	ppm	97
41) Caprolactam	6.431	55	489835	41.31	ppm	96
45) 1-Methylnaphthalene	6.891	141	1778171	45.58	ppm	99
46) Dimethylnaphthalene	7.549	156	1818447	45.70	ppm	98
48) Hexachlorocyclopentadiene	6.960	237	473243	49.86	ppm	97
53) Biphenyl	7.345	154	2475881	47.66	ppm	99
82) Octadecane	10.239	57	1489822	45.43	ppm	98
100) 7,12-Dimethylbenz(a)an...	16.080	256	1036703	49.16	ppm	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:53:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950a.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:52:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	609564	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2508037	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1354963	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2192668	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1829789	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1596608	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	609564	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1354963	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2192668	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1829789	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2508037	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1829789	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
103) Benzaldehyde	4.532	105	922158	53.89	ppm	100
107) Atrazine	9.939	215	305250	51.63	ppm	93

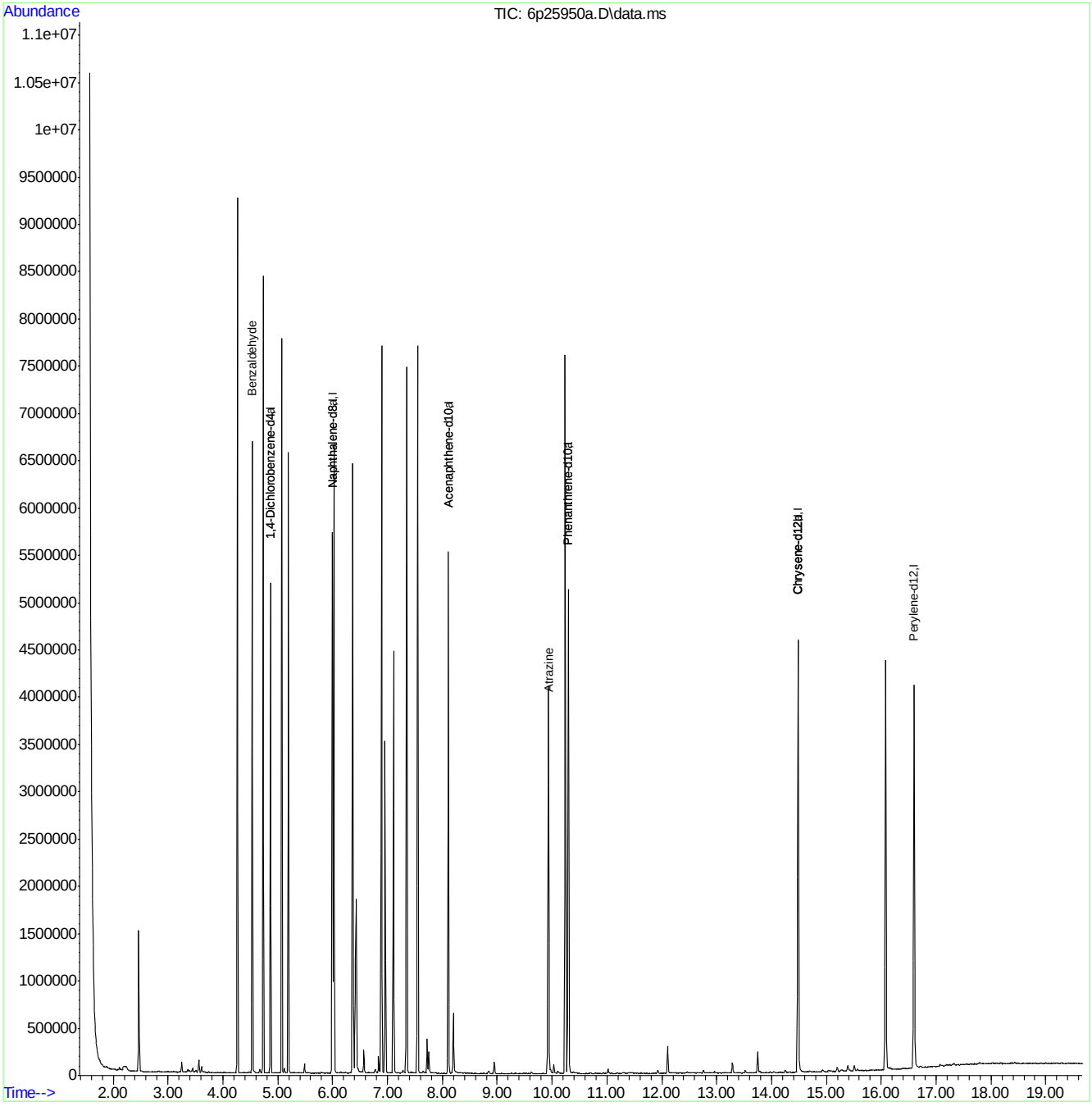
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25950a.D
Acq On : 13 May 2016 8:14 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 16 11:52:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 17:29:28 2016 ACLIMS

Page: 2

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25951.D
Acq On : 13 May 2016 8:42 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 16 12:05:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	567146	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2326025	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1348429	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2280734	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	2145860	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1892922	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	567146	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1348429	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2280734	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	2145860	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2326025	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	2145860	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
89) 3,3'-Dichlorobenzidine	14.480	252	997296	45.62	ppm	99

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

7.6.47

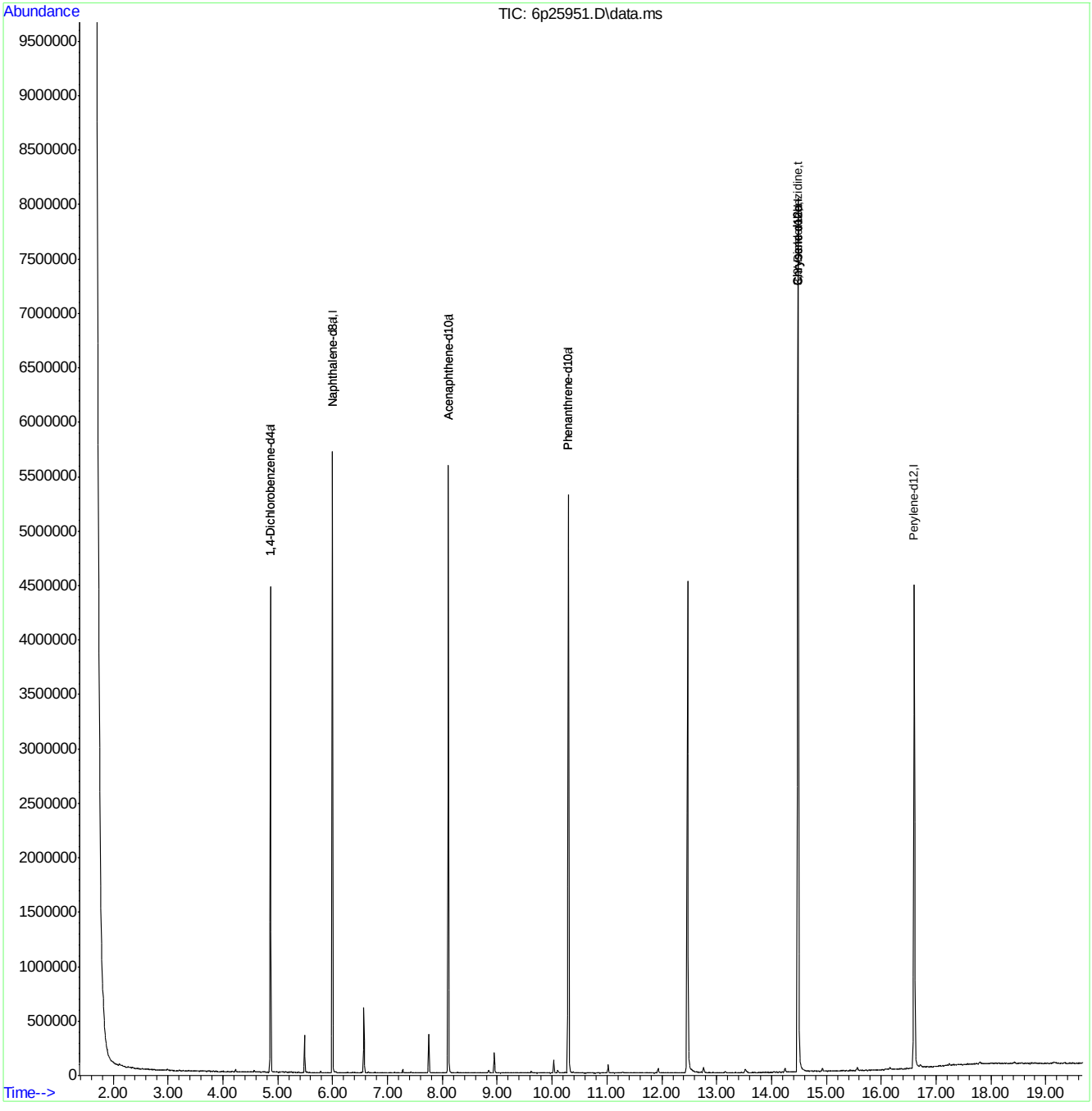
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25951.D
Acq On : 13 May 2016 8:42 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 16 12:05:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25952.D
Acq On : 13 May 2016 9:09 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 16 09:31:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	507488	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2045948	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1170605	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	1904024	40.00	ppm	0.00
83) Chrysene-d12	14.486	240	1655657	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1440019	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	507488	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1170605	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	1904024	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1655657	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2045948	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1655657	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
113) Hydroquinone	6.409	110	945058	48.28	ppm	99

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

7.6.48

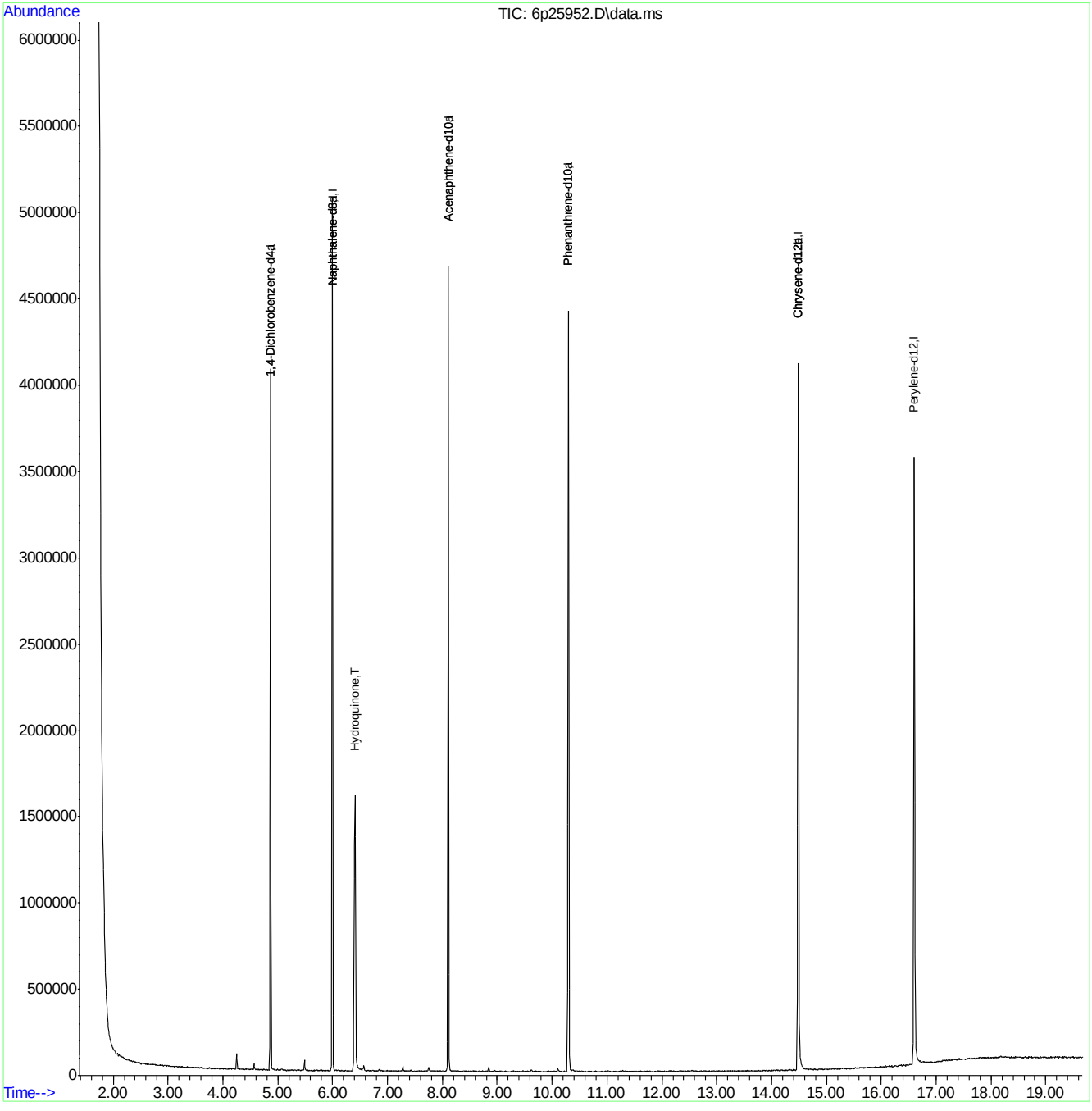
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1210\
Data File : 6p25952.D
Acq On : 13 May 2016 9:09 pm
Operator : ariellec
Sample : icv1210-50
Misc : op93693,e6p1210
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 16 09:31:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 13 16:05:05 2016
QLast Update : Fri May 13 16:05:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25954.D
Acq On : 16 May 2016 9:15 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 09:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.869	152	621318	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2361613	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1310114	40.00	ppm	0.00
69) Phenanthrene-d10	10.303	188	2139687	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1830697	40.00	ppm	0.00
92) Perylene-d12	16.604	264	1580840	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.869	152	621318	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1310114	40.00	ppm	0.00
106) Phenanthrene-d10a	10.303	188	2139687	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1830697	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2361613	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1830697	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
9) Phenol	4.612	94	1416137	42.61	ppm	81
12) 2-Chlorophenol	4.714	128	1095098	45.45	ppm	96
19) 2-Methylphenol	5.077	108	1003078	43.73	ppm	99
21) 3&4-Methylphenol	5.206	108	1059066	43.77	ppm	99
29) 2-Nitrophenol	5.634	139	552497	47.56	ppm	81
30) 2,4-Dimethylphenol	5.671	107	1150191	53.31	ppm	96
31) Benzoic acid	5.815	105	771411	53.58	ppm	90
33) 2,4-Dichlorophenol	5.864	162	819578	49.46	ppm	98
34) 2,6-Dichlorophenol	6.083	162	802418	50.35	ppm	99
43) 4-Chloro-3-methylphenol	6.607	107	983206	47.96	ppm	98
49) 2,4,6-Trichlorophenol	7.120	196	580357	54.55	ppm	98
50) 2,4,5-Trichlorophenol	7.163	196	577655	49.48	ppm	98
60) 2,4-Dinitrophenol	8.217	184	195992	46.92	ppm #	82
61) 4-Nitrophenol	8.351	109	368161	54.89	ppm	96
64) 2,3,4,6-Tetrachlorophenol	8.586	232	452873	54.73	ppm	98
70) 4,6-Dinitro-2-methylph...	8.987	198	310808	47.68	ppm	97
76) Pentachlorophenol	10.025	266	340173	50.16	ppm	98

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25954.D
Acq On : 16 May 2016 9:15 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 09:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

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

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

7.6.49

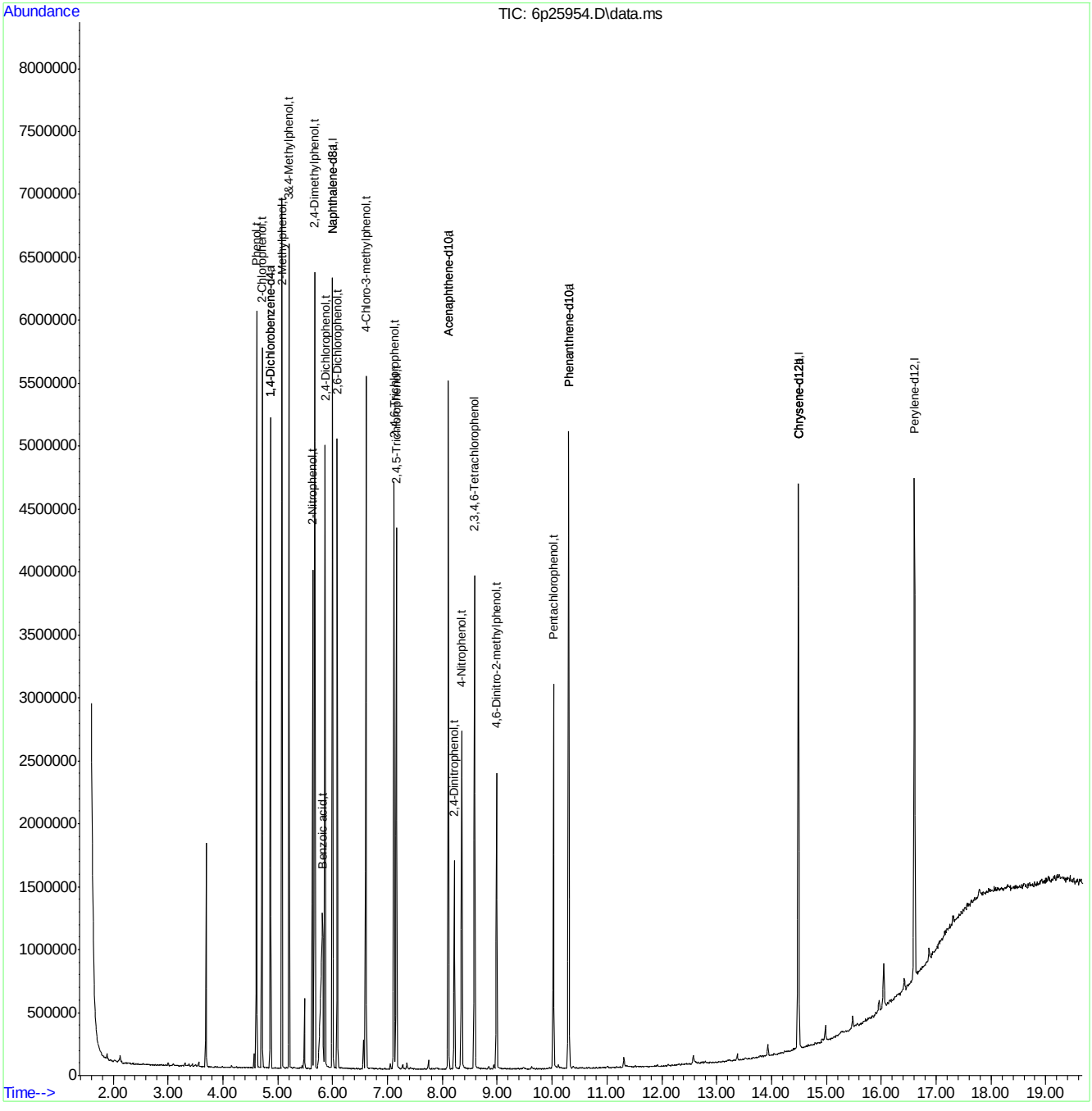
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25954.D
Acq On : 16 May 2016 9:15 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 09:40:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25955.D
Acq On : 16 May 2016 9:42 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 10:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

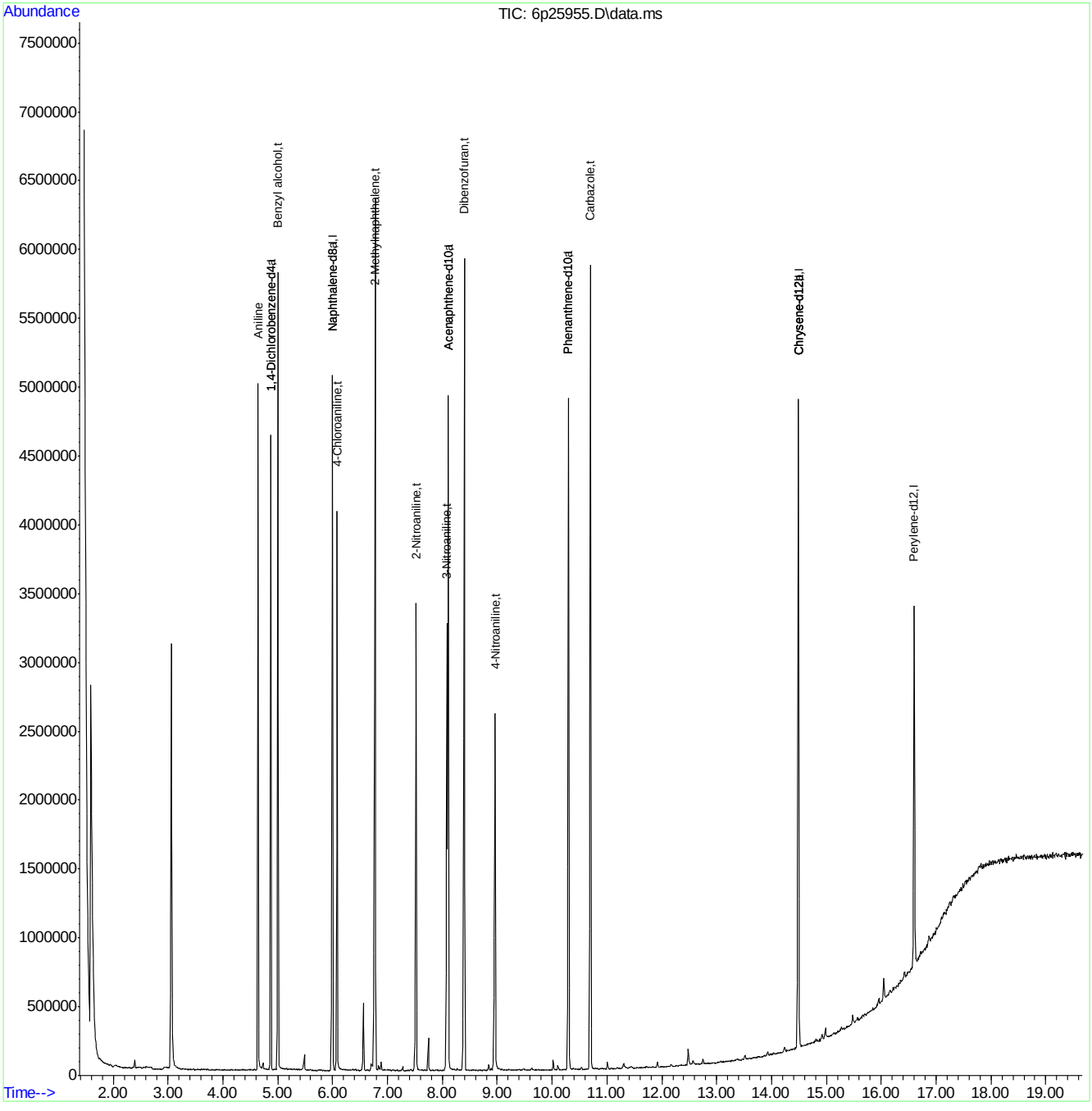
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.874	152	547414	40.00	ppm	0.00
24) Naphthalene-d8	5.997	136	2275940	40.00	ppm	0.00
47) Acenaphthene-d10	8.110	164	1291420	40.00	ppm	0.00
69) Phenanthrene-d10	10.298	188	2155241	40.00	ppm	0.00
83) Chrysene-d12	14.491	240	1897297	40.00	ppm	0.00
92) Perylene-d12	16.598	264	1098100	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.874	152	547414	40.00	ppm	0.00
104) Acenaphthene-d10a	8.110	164	1291420	40.00	ppm	0.00
106) Phenanthrene-d10a	10.298	188	2155241	40.00	ppm	0.00
110) Chrysene-d12a	14.491	240	1897297	40.00	ppm	0.00
112) Naphthalene-d8a	5.997	136	2275940	40.00	ppm	0.00
114) Chrysene-d12b	14.491	240	1897297	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) 1-Chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
10) Aniline	4.639	93	1358598	40.91	ppm	99
16) Benzyl alcohol	5.003	108	685368	47.24	ppm	98
39) 4-Chloroaniline	6.083	127	1084615	41.41	ppm	96
44) 2-Methylnaphthalene	6.773	141	1653297	47.97	ppm	96
54) 2-Nitroaniline	7.522	65	625855	46.61	ppm	98
58) 3-Nitroaniline	8.083	138	473168	42.06	ppm	95
62) Dibenzofuran	8.399	168	2573051	49.66	ppm	96
68) 4-Nitroaniline	8.961	138	483911	41.07	ppm	96
79) Carbazole	10.699	167	2757536	47.30	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1211\
Data File : 6p25955.D
Acq On : 16 May 2016 9:42 am
Operator : ariellec
Sample : ICV1209-50
Misc : op93693,e6p1211
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 10:05:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25959.D
Acq On : 16 May 2016 11:13 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 11:36:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.858	152	593990	40.00	ppm	-0.01
24) Naphthalene-d8	5.987	136	2309344	40.00	ppm	-0.01
47) Acenaphthene-d10	8.099	164	1311541	40.00	ppm	-0.01
69) Phenanthrene-d10	10.292	188	2126146	40.00	ppm	-0.01
83) Chrysene-d12	14.480	240	1853981	40.00	ppm	-0.01
92) Perylene-d12	16.593	264	1644750	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.858	152	593990	40.00	ppm	-0.01
104) Acenaphthene-d10a	8.099	164	1311541	40.00	ppm	-0.01
106) Phenanthrene-d10a	10.292	188	2126146	40.00	ppm	0.00
110) Chrysene-d12a	14.480	240	1853981	40.00	ppm	0.00
112) Naphthalene-d8a	5.987	136	2309344	40.00	ppm	-0.01
114) Chrysene-d12b	14.480	240	1853981	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	988660	43.68	ppm	0.03
Spiked Amount 50.000			Recovery = 87.36%			
8) Phenol-d5	4.591	99	1208281	40.78	ppm	0.02
Spiked Amount 50.000			Recovery = 81.56%			
25) Nitrobenzene-d5	5.323	82	1166541	45.30	ppm	0.00
Spiked Amount 50.000			Recovery = 90.60%			
51) 2-Fluorobiphenyl	7.211	172	2004890	47.42	ppm	0.00
Spiked Amount 50.000			Recovery = 94.84%			
73) 2,4,6-Tribromophenol	9.239	330	203600	38.21	ppm	0.00
Spiked Amount 50.000			Recovery = 76.42%			
85) Terphenyl-d14	12.854	244	1792964	46.16	ppm	-0.01
Spiked Amount 50.000			Recovery = 92.32%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds Qvalue

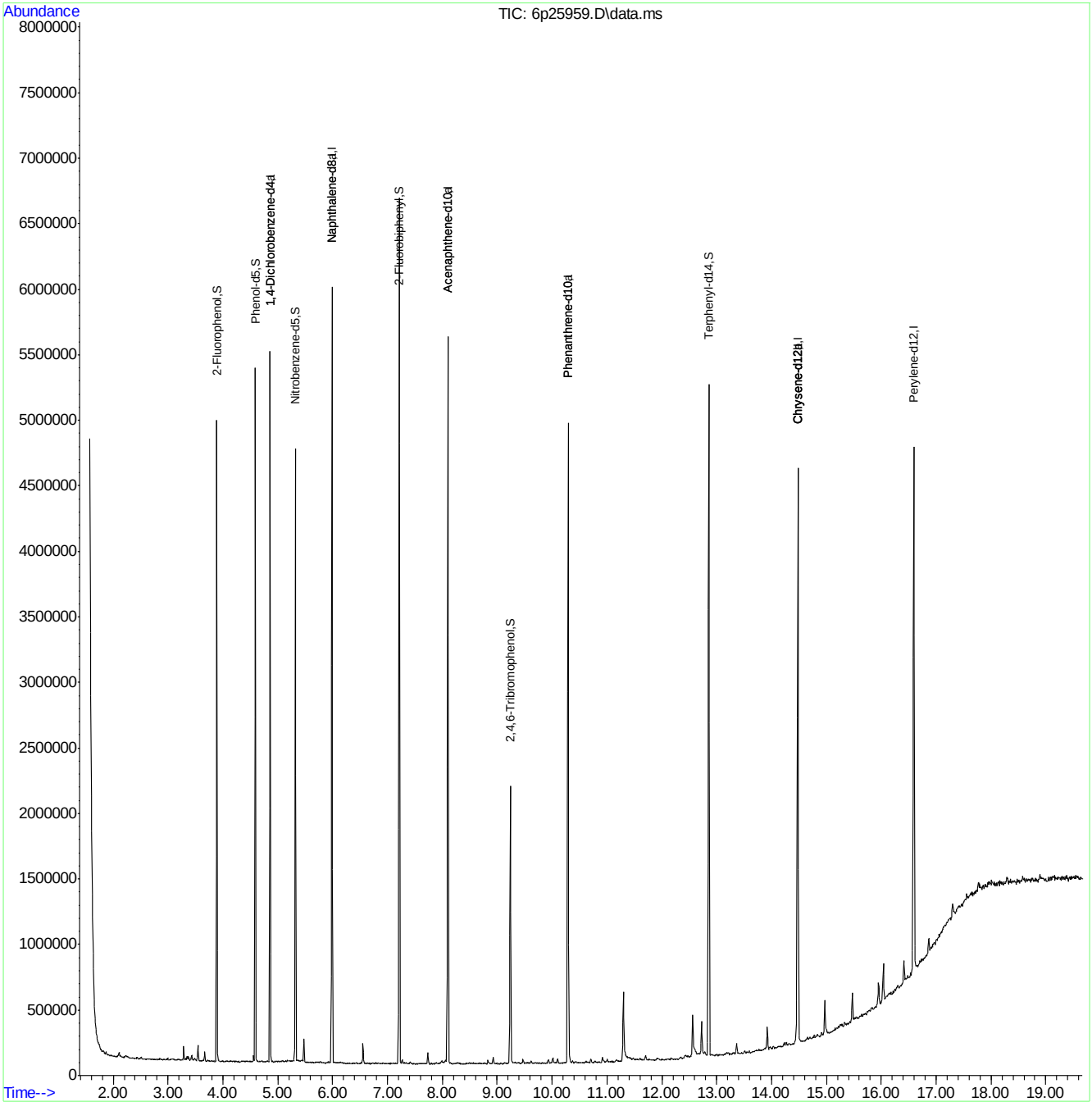
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25959.D
Acq On : 16 May 2016 11:13 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 11:36:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:10:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	518609	40.00	ppm	0.00
24) Naphthalene-d8	5.992	136	2031947	40.00	ppm	0.00
47) Acenaphthene-d10	8.099	164	1135484	40.00	ppm	-0.01
69) Phenanthrene-d10	10.292	188	1841762	40.00	ppm	-0.01
83) Chrysene-d12	14.486	240	1532336	40.00	ppm	0.00
92) Perylene-d12	16.593	264	1434652	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.864	152	518609	40.00	ppm	0.00
104) Acenaphthene-d10a	8.099	164	1135484	40.00	ppm	-0.01
106) Phenanthrene-d10a	10.292	188	1841762	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1532336	40.00	ppm	0.00
112) Naphthalene-d8a	5.992	136	2031947	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1532336	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.778	74	676265	48.57	ppm	95
11) bis(2-Chloroethyl)ether	4.660	93	984892	49.96	ppm	95
14) 1,3-Dichlorobenzene	4.815	146	1063748	50.53	ppm	99
15) 1,4-Dichlorobenzene	4.874	146	1074571	50.36	ppm	99
17) 1,2-Dichlorobenzene	4.997	146	1012385	50.10	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.077	121	320520	45.42	ppm #	78
22) n-Nitroso-di-n-propyla...	5.201	70	780181	44.93	ppm	98
23) Hexachloroethane	5.281	201	346029	54.42	ppm #	81
26) Nitrobenzene	5.340	77	1153827	48.76	ppm	100
28) Isophorone	5.575	82	2019626	50.29	ppm	98
32) bis(2-Chloroethoxy)met...	5.751	93	1079437	47.56	ppm	100
36) 1,2,4-Trichlorobenzene	5.928	180	828060	55.20	ppm	98
38) Naphthalene	6.014	128	2885387	50.33	ppm	100
42) Hexachlorobutadiene	6.126	225	455565	59.47	ppm	99
52) 2-Chloronaphthalene	7.361	162	1675421	51.70	ppm	99
55) Dimethylphthalate	7.773	163	1917292	50.71	ppm	99
56) Acenaphthylene	7.907	152	2663618	49.03	ppm	99

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:10:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
57)	2,6-Dinitrotoluene	7.837	165	419790	54.17 ppm	96
59)	Acenaphthene	8.148	153	1741530	50.83 ppm	99
63)	2,4-Dinitrotoluene	8.394	165	535645	51.47 ppm	75
65)	Diethylphthalate	8.779	149	1931483	50.17 ppm	98
66)	Fluorene	8.886	166	1924393	50.45 ppm	99
67)	4-Chlorophenyl-phenyle...	8.902	204	911119	53.12 ppm	98
71)	n-Nitrosodiphenylamine	9.084	169	1356999	52.74 ppm	99
72)	1,2-Diphenylhydrazine	9.137	77	2195735	47.45 ppm	99
74)	4-Bromophenyl-phenylether	9.635	248	490612	52.96 ppm	98
75)	Hexachlorobenzene	9.688	284	483417	47.79 ppm	92
77)	Phenanthrene	10.330	178	2701713	50.59 ppm	99
78)	Anthracene	10.410	178	2675837	50.57 ppm	100
80)	Di-n-butylphthalate	11.319	149	3165826	50.51 ppm	100
81)	Fluoranthene	12.191	202	2833371	49.95 ppm	97
84)	Pyrene	12.544	202	2970135	57.14 ppm	100
86)	Butylbenzylphthalate	13.705	149	1324183	57.84 ppm	100
88)	Benzo[a]anthracene	14.470	228	2476493	54.44 ppm	100
90)	Chrysene	14.523	228	2392090	54.26 ppm	100
91)	bis(2-Ethylhexyl)phtha...	14.657	149	1834646	55.64 ppm	99
93)	Di-n-octylphthalate	15.652	149	3025552	55.66 ppm	97
94)	Benzo[b]fluoranthene	16.074	252	2343984	51.66 ppm	95
95)	Benzo[k]fluoranthene	16.117	252	2414737	53.61 ppm	96
96)	Benzo[a]pyrene	16.518	252	2252456	58.08 ppm	97
97)	Indeno[1,2,3-cd]pyrene	18.000	276	2255028	54.91 ppm	95
99)	Dibenz[a,h]anthracene	18.037	278	2271031	53.25 ppm	98
101)	Benzo[g,h,i]perylene	18.385	276	2255036	52.79 ppm	98

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

7.6.52

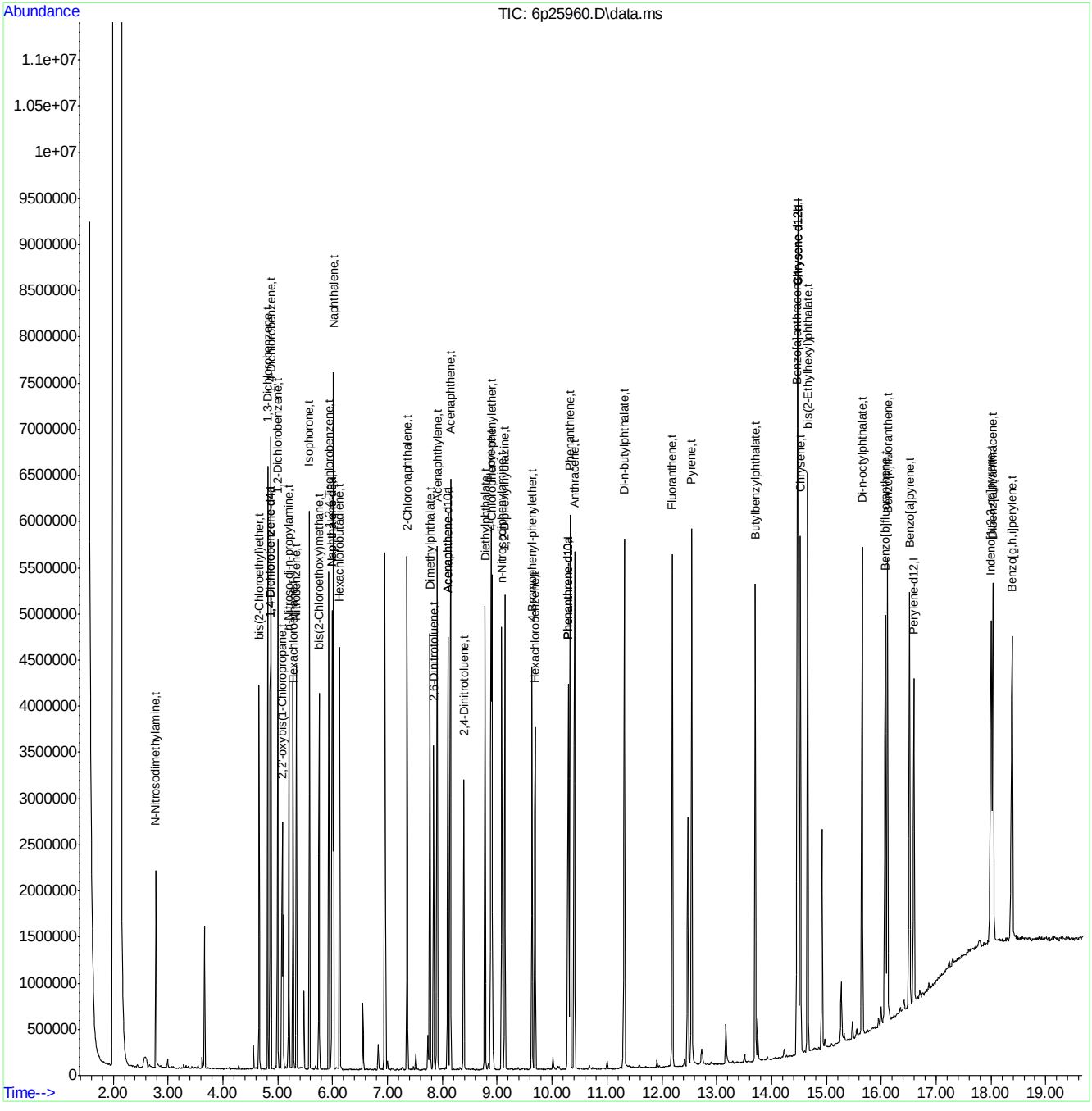
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:10:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960A.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:11:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.864	152	518609	40.00	ppm	0.00
24) Naphthalene-d8	5.992	136	2031947	40.00	ppm	0.00
47) Acenaphthene-d10	8.099	164	1135484	40.00	ppm	-0.01
69) Phenanthrene-d10	10.292	188	1841762	40.00	ppm	-0.01
83) Chrysene-d12	14.486	240	1532336	40.00	ppm	0.00
92) Perylene-d12	16.593	264	1434652	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.864	152	518609	40.00	ppm	0.00
104) Acenaphthene-d10a	8.099	164	1135484	40.00	ppm	-0.01
106) Phenanthrene-d10a	10.292	188	1841762	40.00	ppm	0.00
110) Chrysene-d12a	14.486	240	1532336	40.00	ppm	0.00
112) Naphthalene-d8a	5.992	136	2031947	40.00	ppm	0.00
114) Chrysene-d12b	14.486	240	1532336	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) o-Terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) 1-Chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
105) 1,2,4,5-Tetrachloroben...	6.960	216	858796	61.02	ppm	99
111) benzidine	12.475	184	1242537	72.02	ppm	99

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

7.6.53

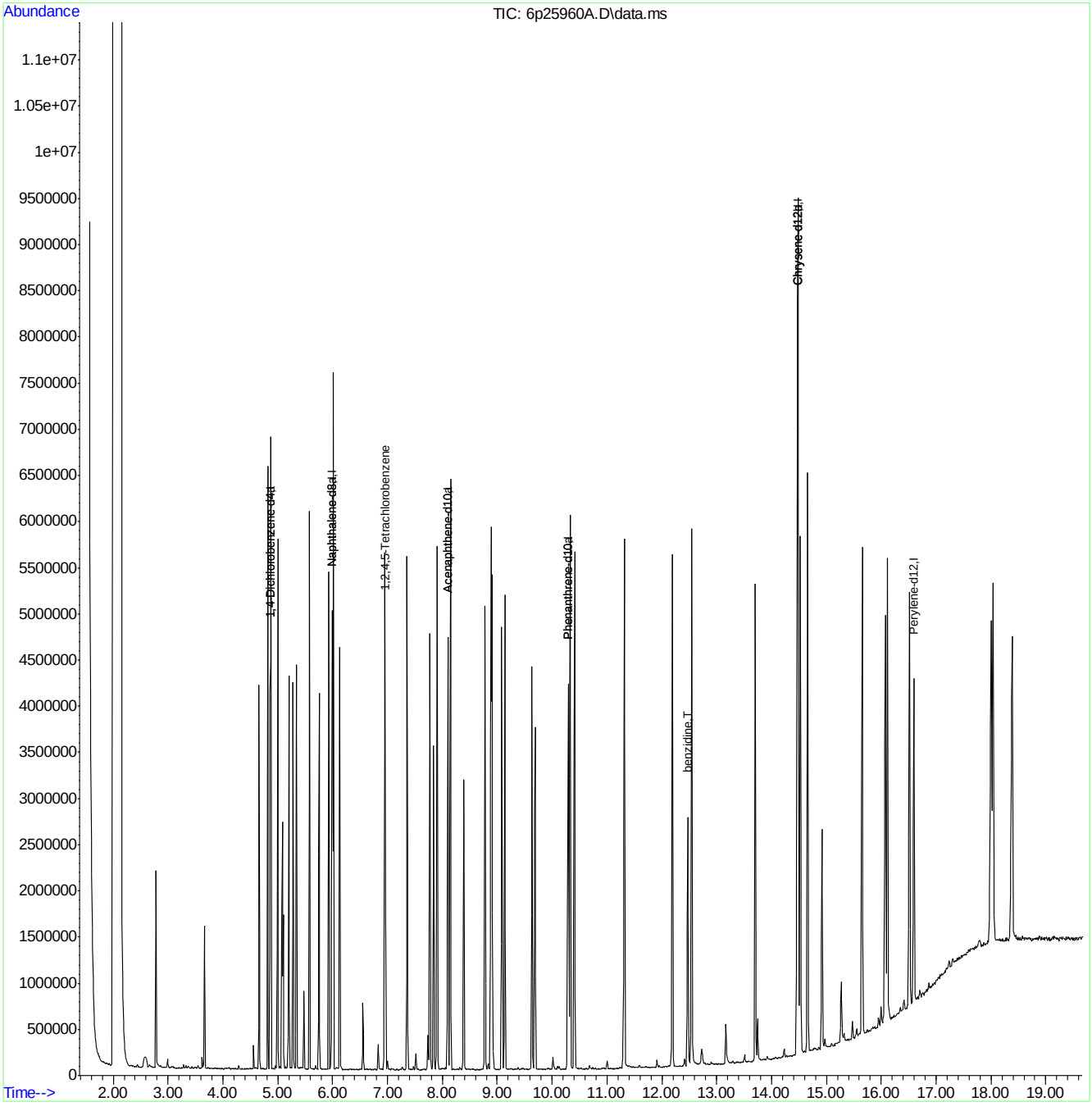
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1212\
Data File : 6p25960A.D
Acq On : 16 May 2016 11:40 am
Operator : ariellec
Sample : icv1209-50
Misc : op93693,e6p1212
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 16 12:11:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon May 16 09:26:46 2016
QLast Update : Mon May 16 09:26:46 2016
Response via : Initial Calibration



M6P1209.M Mon May 16 12:11:24 2016 ACLIMS Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
05/31/16 13:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26490.D
Acq On : 31 May 2016 8:50 am
Operator : ariellec
Sample : cc1209-50
Misc : op94071,e6p1232
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 09:29:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 27 10:53:17 2016
QLast Update : Fri May 27 10:53:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.761	152	488202	40.00	ppm	-0.03
24) Naphthalene-d8	5.874	136	1987841	40.00	ppm	-0.03
47) Acenaphthene-d10	7.970	164	1121469	40.00	ppm	-0.03
69) Phenanthrene-d10	10.158	188	1847066	40.00	ppm	-0.04
83) Chrysene-d12	14.357	240	1722913	40.00	ppm	-0.02
92) Perylene-d12	16.475	264	1455248	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.761	152	488202	40.00	ppm	-0.03
104) Acenaphthene-d10a	7.970	164	1121469	40.00	ppm	-0.03
106) Phenanthrene-d10a	10.158	188	1847066	40.00	ppm	-0.04
108) Chrysene-d12a	14.357	240	1722913	40.00	ppm	-0.02
110) Naphthalene-d8a	5.874	136	1987841	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.782	112	881444	47.38	ppm	-0.01
Spiked Amount 50.000			Recovery	=	94.76%	
8) Phenol-d5	4.510	99	1227783	50.42	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.84%	
25) Nitrobenzene-d5	5.221	82	1190638	53.71	ppm	-0.02
Spiked Amount 50.000			Recovery	=	107.42%	
51) 2-Fluorobiphenyl	7.088	172	1860132	51.45	ppm	-0.03
Spiked Amount 50.000			Recovery	=	102.90%	
73) 2,4,6-Tribromophenol	9.110	330	214499	46.34	ppm	-0.01
Spiked Amount 50.000			Recovery	=	92.68%	
85) Terphenyl-d14	12.715	244	1837431	50.91	ppm	-0.03
Spiked Amount 50.000			Recovery	=	101.82%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.333	88	372785	43.00	ppm	95
3) Pyridine	2.654	79	995073	45.34	ppm	92
4) N-Nitrosodimethylamine	2.627	74	597624	45.59	ppm	85
6) Indene	4.964	116	1741256	52.43	ppm	100
7) Cumene	4.151	105	2453283	52.06	ppm	98
9) Phenol	4.521	94	1391650	53.29	ppm	88
10) Aniline	4.515	93	1304665	44.05	ppm	98
11) bis(2-Chloroethyl)ether	4.563	93	900452	48.52	ppm	97
12) 2-Chlorophenol	4.611	128	954105	50.39	ppm	99
13) Decane	4.622	43	1241155	51.11	ppm	98
14) 1,3-Dichlorobenzene	4.718	146	996658	50.29	ppm	99
15) 1,4-Dichlorobenzene	4.777	146	1017282	50.65	ppm	99
16) Benzyl alcohol	4.884	108	654455	50.58	ppm	98
17) 1,2-Dichlorobenzene	4.895	146	962364	50.59	ppm	99
18) Acetophenone	5.093	105	1457218	53.16	ppm	95
19) 2-Methylphenol	4.981	108	901121	50.00	ppm	94
20) 2,2'-oxybis(1-Chloropr...	4.975	121	339568	51.12	ppm #	81
21) 3&4-Methylphenol	5.104	108	967517	50.89	ppm	94
22) n-Nitroso-di-n-propyla...	5.093	70	882321	53.97	ppm	96
23) Hexachloroethane	5.168	201	301023	50.29	ppm	97
26) Nitrobenzene	5.237	77	1237130	53.44	ppm	97
27) Quinoline	6.259	129	1891792	51.04	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26490.D
Acq On : 31 May 2016 8:50 am
Operator : ariellec
Sample : cc1209-50
Misc : op94071,e6p1232
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 09:29:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 27 10:53:17 2016
QLast Update : Fri May 27 10:53:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.446	82	2039629	51.91	ppm		98
29) 2-Nitrophenol	5.515	139	550025	56.25	ppm	#	73
30) 2,4-Dimethylphenol	5.558	107	971038	53.47	ppm		94
31) Benzoic acid	5.703	105	677922	55.56	ppm		91
32) bis(2-Chloroethoxy)met...	5.638	93	1109776	49.99	ppm		98
33) 2,4-Dichlorophenol	5.751	162	712379	51.07	ppm		95
34) 2,6-Dichlorophenol	5.970	162	711252	53.02	ppm		98
35) 1,3,5-Trichlorobenzene	5.515	180	791351	51.64	ppm		97
36) 1,2,4-Trichlorobenzene	5.815	180	745106	50.77	ppm		99
37) 1,2,3-Trichlorobenzene	6.045	180	717064	49.69	ppm		99
38) Naphthalene	5.895	128	2883895	51.42	ppm		93
39) 4-Chloroaniline	5.965	127	1135896	49.65	ppm		99
40) 2,3-Dichloroaniline	6.986	161	914893	52.89	ppm		99
41) Caprolactam	6.371	55	503742	53.60	ppm		98
42) Hexachlorobutadiene	6.013	225	394758	52.68	ppm		98
43) 4-Chloro-3-methylphenol	6.500	107	956783	55.44	ppm		96
44) 2-Methylnaphthalene	6.644	141	1592376	52.89	ppm		97
45) 1-Methylnaphthalene	6.756	141	1637942	52.97	ppm		100
46) Dimethylnaphthalene	7.414	156	1649613	52.31	ppm		97
48) Hexachlorocyclopentadiene	6.815	237	694118	88.36	ppm		92
49) 2,4,6-Trichlorophenol	6.992	196	499767	54.87	ppm		96
50) 2,4,5-Trichlorophenol	7.050	196	531707	53.21	ppm		98
52) 2-Chloronaphthalene	7.238	162	1634686	51.07	ppm		98
53) Biphenyl	7.211	154	2246992	52.26	ppm		99
54) 2-Nitroaniline	7.393	65	758531	65.06	ppm		92
55) Dimethylphthalate	7.628	163	1941860	52.00	ppm		100
56) Acenaphthylene	7.778	152	2829275	52.73	ppm		99
57) 2,6-Dinitrotoluene	7.714	165	447668	58.49	ppm		91
58) 3-Nitroaniline	7.949	138	532094	54.47	ppm		97
59) Acenaphthene	8.013	153	1793904	53.01	ppm		96
60) 2,4-Dinitrophenol	8.099	184	456312	110.32	ppm		98
61) 4-Nitrophenol	8.243	109	315672	54.98	ppm	#	17
62) Dibenzofuran	8.259	168	2373903	52.75	ppm		96
63) 2,4-Dinitrotoluene	8.275	165	621853	60.50	ppm		81
64) 2,3,4,6-Tetrachlorophenol	8.452	232	397522	56.13	ppm		96
65) Diethylphthalate	8.634	149	2035028	53.52	ppm		98
66) Fluorene	8.751	166	2046224	54.31	ppm		98
67) 4-Chlorophenyl-phenyle...	8.767	204	879580	51.92	ppm		99
68) 4-Nitroaniline	8.837	138	523819	51.19	ppm		98
70) 4,6-Dinitro-2-methylph...	8.874	198	338461	58.47	ppm		83
71) n-Nitrosodiphenylamine	8.955	169	1383396	53.62	ppm		99
72) 1,2-Diphenylhydrazine	9.003	77	2521226	54.33	ppm		98
74) 4-Bromophenyl-phenylether	9.495	248	466407	50.21	ppm		96
75) Hexachlorobenzene	9.559	284	466768	46.01	ppm		76
76) Pentachlorophenol	9.891	266	594380	101.52	ppm		98
77) Phenanthrene	10.195	178	2734292	51.05	ppm		99
78) Anthracene	10.276	178	2805749	52.87	ppm		100
79) Carbazole	10.559	167	2602939	52.10	ppm		100
80) Di-n-butylphthalate	11.164	149	3447055	54.84	ppm		100
81) Fluoranthene	12.062	202	2938140	51.65	ppm		99

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26490.D
Acq On : 31 May 2016 8:50 am
Operator : ariellec
Sample : cc1209-50
Misc : op94071,e6p1232
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 09:29:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 27 10:53:17 2016
QLast Update : Fri May 27 10:53:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	10.072	57	1653897	59.86 ppm	98
84) Pyrene	12.410	202	3048606	52.16 ppm	99
86) Butylbenzylphthalate	13.549	149	1535733	59.66 ppm	95
87) Butyl stearate	13.699	56	1163733	63.21 ppm	93
88) Benzo[a]anthracene	14.341	228	2658030	51.96 ppm	100
89) 3,3'-Dichlorobenzidine	14.351	252	973945	55.49 ppm	99
90) Chrysene	14.399	228	2511573	50.66 ppm	98
91) bis(2-Ethylhexyl)phtha...	14.496	149	2123950	57.27 ppm	99
93) Di-n-octylphthalate	15.496	149	3624337	65.71 ppm	100
94) Benzo[b]fluoranthene	15.956	252	2668056	57.98 ppm	99
95) Benzo[k]fluoranthene	15.999	252	2316674	52.06 ppm	98
96) Benzo[a]pyrene	16.395	252	2178453	55.38 ppm	70
97) Indeno[1,2,3-cd]pyrene	17.871	276	1998043m	49.99 ppm	
98) Dibenz(a,h)acridine	17.561	279	1777793	49.65 ppm	98
99) Dibenz[a,h]anthracene	17.897	278	2050776	47.40 ppm	96
100) 7,12-Dimethylbenz(a)an...	15.951	256	1096910	57.07 ppm	96
101) Benzo[g,h,i]perylene	18.245	276	2002577	46.21 ppm	96

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

7.6.54

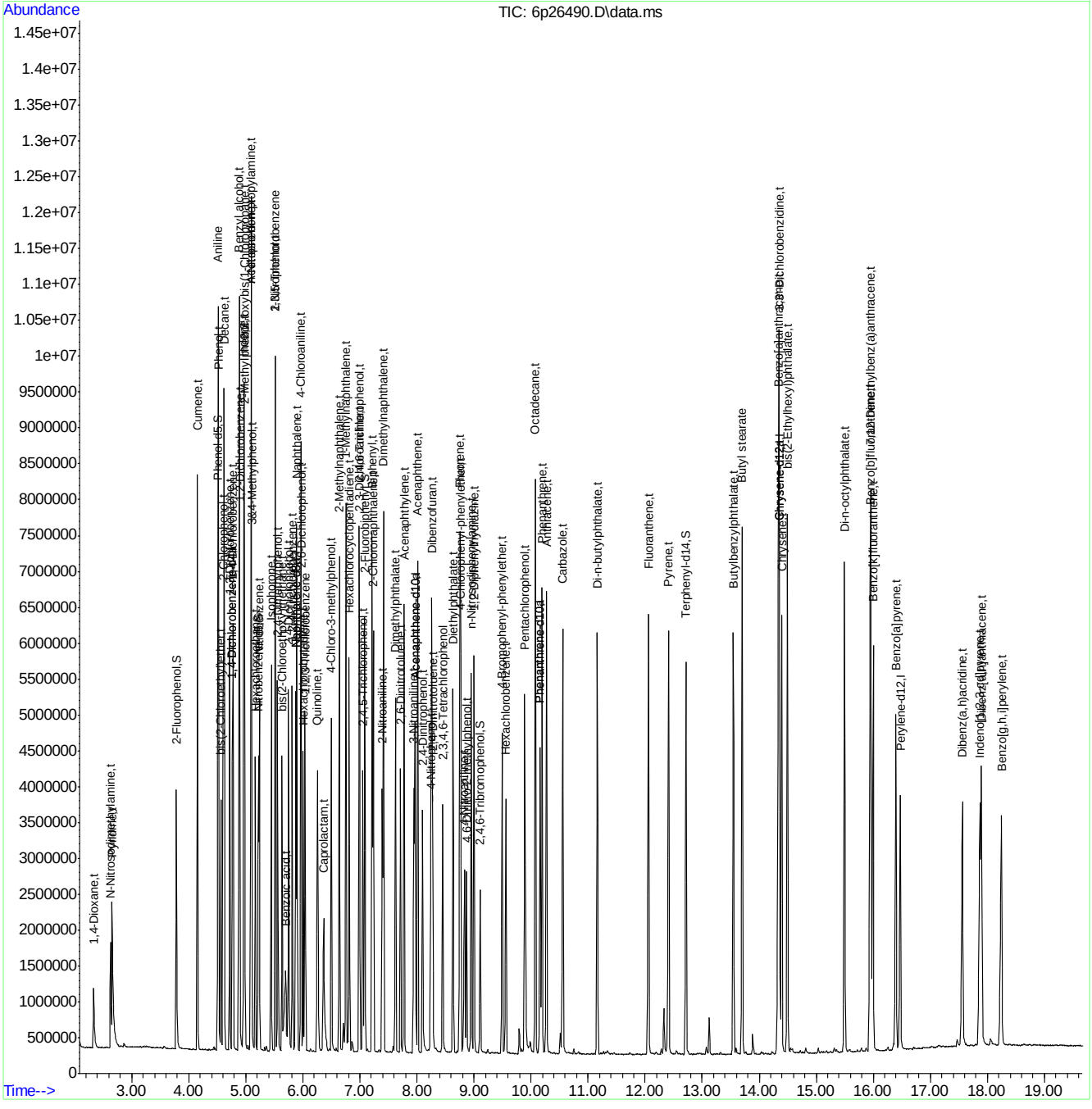
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26490.D
Acq On : 31 May 2016 8:50 am
Operator : ariellec
Sample : cc1209-50
Misc : op94071,e6p1232
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 09:29:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 27 10:53:17 2016
QLast Update : Fri May 27 10:53:17 2016
Response via : Initial Calibration



Manual Integration Approval Summary

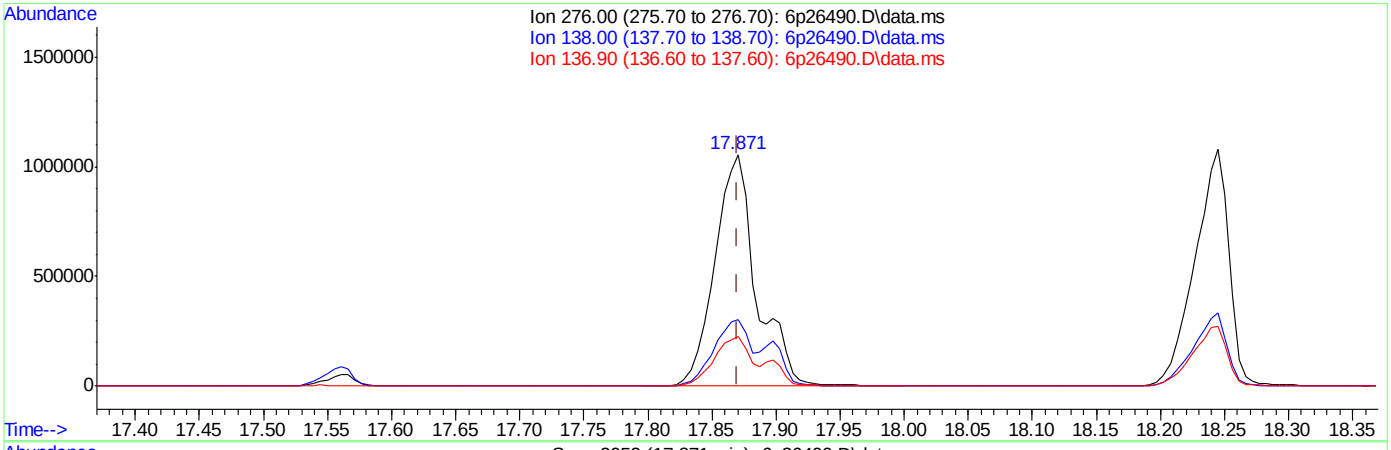
Sample Number:	E6P1232-CC1209	**Method:**	SW846 8270D
Lab FileID:	6P26490.D	**Analyst approved:**	05/31/16 10:46 Arielle Cocozza
Injection Time:	05/31/16 08:50	**Supervisor approved:**	05/31/16 13:44 Nina Pandya

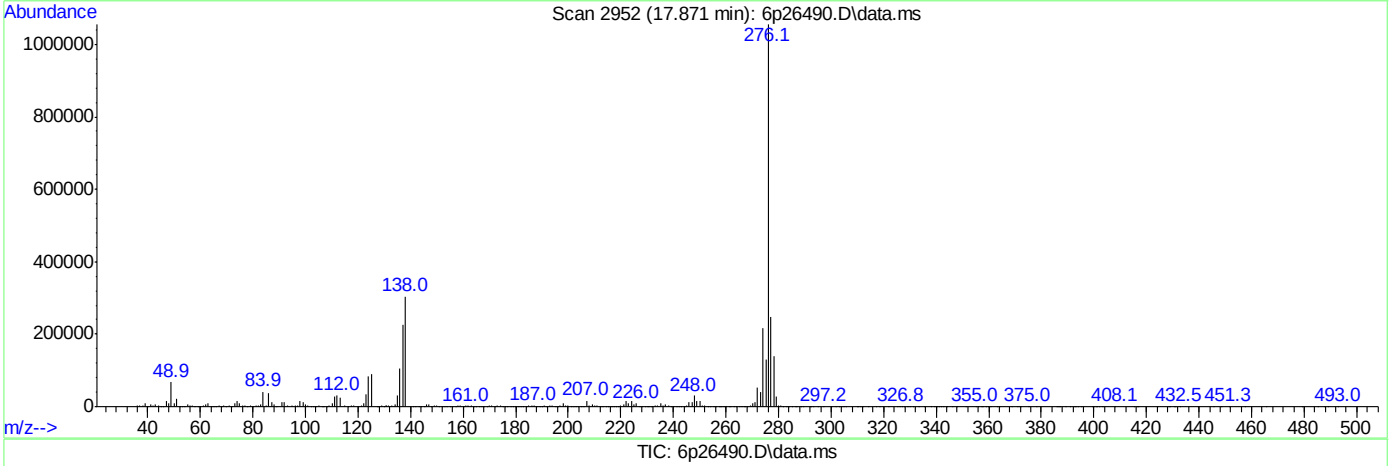
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.87	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26490.D
Acq On : 31 May 2016 8:50 am
Operator : ariellec
Sample : cc1209-50
Misc : op94071,e6p1232
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 09:09:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 27 10:53:17 2016
QLast Update : Fri May 27 10:53:17 2016
Response via : Initial Calibration





TIC: 6p26490.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.871min (+0.001) 59.63ppm

response 2383300

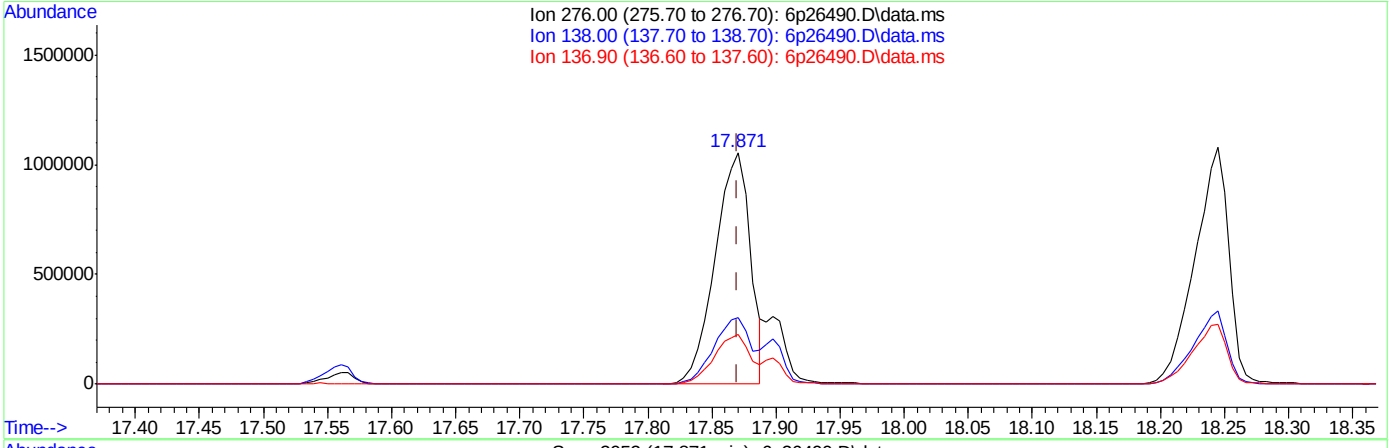
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	28.77
136.90	22.40	21.40
0.00	0.00	0.00

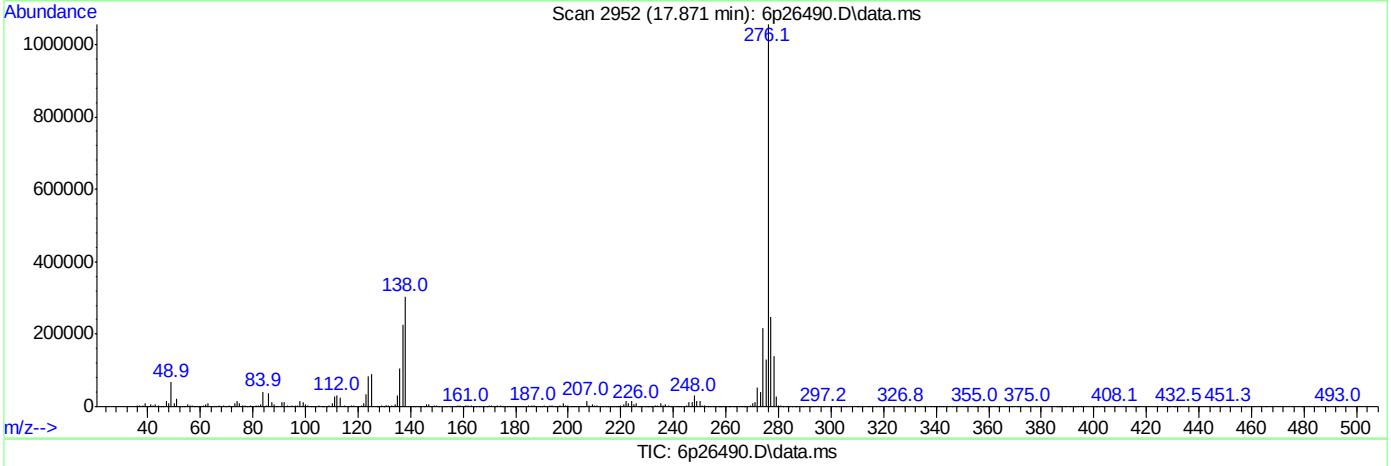
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26490.D
Acq On : 31 May 2016 8:50 am
Operator : ariellec
Sample : cc1209-50
Misc : op94071,e6p1232
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 09:09:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuFri May 27 10:53:17 2016
QLast Update : Fri May 27 10:53:17 2016
Response via : Initial Calibration





TIC: 6p26490.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.871min (+0.001) 49.99ppm m

response 1998043

Ion	Exp%	Act%
276.00	100	100
138.00	28.40	28.81
136.90	22.40	21.49
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26491.D
Acq On : 31 May 2016 9:17 am
Operator : ariellec
Sample : cc1210-50
Misc : op94071,e6p1232
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 10:36:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration

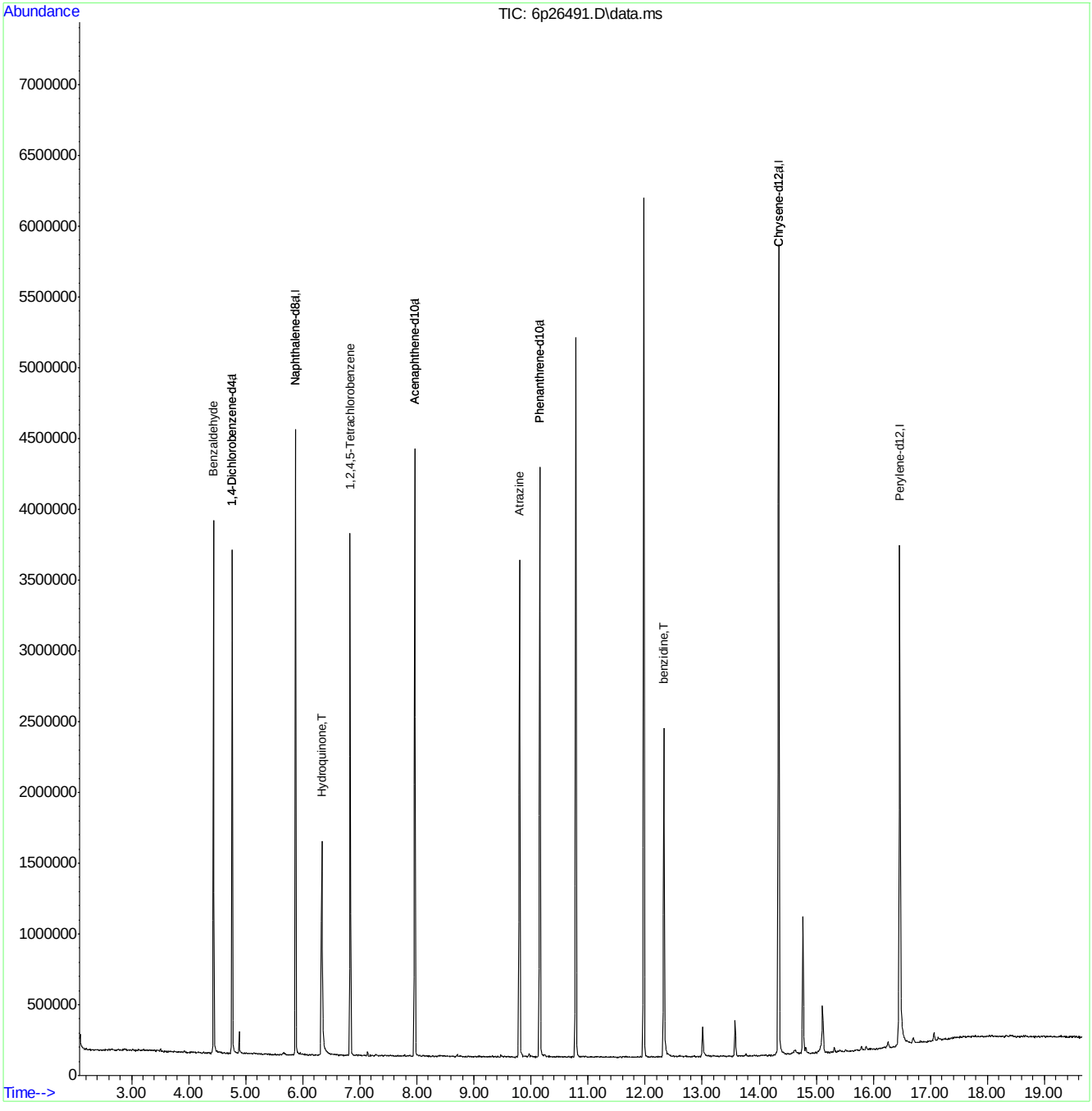
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.761	152	412836	40.00	ppm	0.00
24) Naphthalene-d8	5.868	136	1728516	40.00	ppm	0.00
47) Acenaphthene-d10	7.965	164	994215	40.00	ppm	0.00
69) Phenanthrene-d10	10.153	188	1690727	40.00	ppm	0.00
83) Chrysene-d12	14.346	240	1518344	40.00	ppm	-0.01
92) Perylene-d12	16.464	264	1337629	40.00	ppm	-0.01
102) 1,4-Dichlorobenzene-d4a	4.761	152	412836	40.00	ppm	0.00
104) Acenaphthene-d10a	7.965	164	994215	40.00	ppm	0.00
106) Phenanthrene-d10a	10.153	188	1690727	40.00	ppm	0.00
108) Chrysene-d12a	14.346	240	1518344	40.00	ppm	-0.01
110) Naphthalene-d8a	5.868	136	1728516	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.435	105	595407	47.88	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.831	216	586693	47.61	ppm	99
107) Atrazine	9.800	215	227724	53.93	ppm	89
109) benzidine	12.330	184	1011989	61.08	ppm	98
111) Hydroquinone	6.334	110	795834	48.67	ppm	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1232\
Data File : 6p26491.D
Acq On : 31 May 2016 9:17 am
Operator : ariellec
Sample : cc1210-50
Misc : op94071,e6p1232
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 10:36:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuTue May 31 09:12:53 2016
QLast Update : Tue May 31 09:12:53 2016
Response via : Initial Calibration



M6P1209.M Tue May 31 10:37:30 2016 ACLIMS Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/03/16 08:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 07:59:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.788	152	427428	40.00	ppm	0.00
24) Naphthalene-d8	5.901	136	1771820	40.00	ppm	-0.02
47) Acenaphthene-d10	7.997	164	1010029	40.00	ppm	-0.02
69) Phenanthrene-d10	10.190	188	1661918	40.00	ppm	-0.02
83) Chrysene-d12	14.394	240	1570075	40.00	ppm	-0.01
92) Perylene-d12	16.512	264	1257976	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.788	152	427428	40.00	ppm	0.00
104) Acenaphthene-d10a	7.997	164	1010029	40.00	ppm	-0.02
106) Phenanthrene-d10a	10.190	188	1661918	40.00	ppm	-0.02
108) Chrysene-d12a	14.394	240	1570075	40.00	ppm	-0.01
110) Naphthalene-d8a	5.901	136	1771820	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.815	112	707256	43.43	ppm	0.02
Spiked Amount 50.000			Recovery	=	86.86%	
8) Phenol-d5	4.537	99	1058960	49.67	ppm	0.02
Spiked Amount 50.000			Recovery	=	99.34%	
25) Nitrobenzene-d5	5.248	82	1081656	54.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	109.50%	
51) 2-Fluorobiphenyl	7.109	172	1649231	50.65	ppm	-0.02
Spiked Amount 50.000			Recovery	=	101.30%	
73) 2,4,6-Tribromophenol	9.142	330	183639	44.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	88.18%	
85) Terphenyl-d14	12.747	244	1593731	48.45	ppm	-0.03
Spiked Amount 50.000			Recovery	=	96.90%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.360	88	289610	38.16	ppm	95
3) Pyridine	2.681	79	840494	43.74	ppm	87
4) N-Nitrosodimethylamine	2.654	74	485847	42.34	ppm #	63
6) Indene	4.991	116	1538197	52.90	ppm	99
7) Cumene	4.173	105	2216088	53.71	ppm	97
9) Phenol	4.547	94	1232322	53.90	ppm	93
10) Aniline	4.542	93	1377484	53.12	ppm	95
11) bis(2-Chloroethyl)ether	4.585	93	778892	47.94	ppm	96
12) 2-Chlorophenol	4.638	128	857116	51.70	ppm	98
13) Decane	4.644	43	1142555	53.74	ppm	98
14) 1,3-Dichlorobenzene	4.740	146	855051	49.28	ppm	99
15) 1,4-Dichlorobenzene	4.799	146	874779	49.75	ppm	99
16) Benzyl alcohol	4.906	108	577938	51.02	ppm	88
17) 1,2-Dichlorobenzene	4.922	146	830573	49.87	ppm	98
18) Acetophenone	5.114	105	1334028	55.59	ppm	95
19) 2-Methylphenol	5.007	108	789860	50.06	ppm	95
20) 2,2'-oxybis(1-Chloropr...	4.997	121	294403	50.62	ppm #	86
21) 3&4-Methylphenol	5.130	108	843704	50.69	ppm	94
22) n-Nitroso-di-n-propyla...	5.114	70	798889	55.82	ppm	97
23) Hexachloroethane	5.194	201	261046	49.82	ppm	93
26) Nitrobenzene	5.264	77	1128708	54.70	ppm	97
27) Quinoline	6.280	129	1695971	51.33	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 07:59:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.467	82	1851085	52.86	ppm		94
29) 2-Nitrophenol	5.542	139	487486	55.94	ppm	#	64
30) 2,4-Dimethylphenol	5.585	107	948214	58.58	ppm		93
31) Benzoic acid	5.724	105	688768m	61.97	ppm		
32) bis(2-Chloroethoxy)met...	5.660	93	977285	49.39	ppm		99
33) 2,4-Dichlorophenol	5.777	162	631836	50.82	ppm		94
34) 2,6-Dichlorophenol	5.991	162	635272	53.13	ppm		97
35) 1,3,5-Trichlorobenzene	5.542	180	694473	50.84	ppm		98
36) 1,2,4-Trichlorobenzene	5.842	180	646486	49.42	ppm		97
37) 1,2,3-Trichlorobenzene	6.066	180	646290	50.25	ppm		98
38) Naphthalene	5.922	128	2515393	50.32	ppm		93
39) 4-Chloroaniline	5.986	127	1053922	51.69	ppm		96
40) 2,3-Dichloroaniline	7.013	161	816740	52.97	ppm		96
41) Caprolactam	6.387	55	466605	55.70	ppm		96
42) Hexachlorobutadiene	6.034	225	350383	52.46	ppm		99
43) 4-Chloro-3-methylphenol	6.526	107	883836	57.46	ppm		93
44) 2-Methylnaphthalene	6.665	141	1408354	52.49	ppm		97
45) 1-Methylnaphthalene	6.783	141	1500897	54.46	ppm		96
46) Dimethylnaphthalene	7.441	156	1483277	52.77	ppm		95
48) Hexachlorocyclopentadiene	6.842	237	578421	81.75	ppm		94
49) 2,4,6-Trichlorophenol	7.024	196	446141	54.39	ppm		99
50) 2,4,5-Trichlorophenol	7.077	196	465113	51.68	ppm		97
52) 2-Chloronaphthalene	7.264	162	1440768	49.98	ppm		98
53) Biphenyl	7.238	154	2024263	52.27	ppm		99
54) 2-Nitroaniline	7.420	65	710703	67.68	ppm		91
55) Dimethylphthalate	7.650	163	1730222	51.45	ppm		100
56) Acenaphthylene	7.805	152	2527294	52.30	ppm		100
57) 2,6-Dinitrotoluene	7.740	165	401709	58.28	ppm		88
58) 3-Nitroaniline	7.976	138	466211	52.99	ppm		94
59) Acenaphthene	8.040	153	1577740	51.77	ppm		99
60) 2,4-Dinitrophenol	8.131	184	388142	105.10	ppm		91
61) 4-Nitrophenol	8.281	109	298976	57.82	ppm	#	72
62) Dibenzofuran	8.286	168	2112468	52.12	ppm		84
63) 2,4-Dinitrotoluene	8.307	165	566761	61.23	ppm		84
64) 2,3,4,6-Tetrachlorophenol	8.484	232	342142	53.64	ppm		99
65) Diethylphthalate	8.655	149	1882428	54.97	ppm		99
66) Fluorene	8.778	166	1828695	53.89	ppm		99
67) 4-Chlorophenyl-phenyle...	8.794	204	775707	50.84	ppm		92
68) 4-Nitroaniline	8.864	138	468268	50.81	ppm		93
70) 4,6-Dinitro-2-methylph...	8.901	198	301026	57.88	ppm		96
71) n-Nitrosodiphenylamine	8.981	169	1211628	52.19	ppm		99
72) 1,2-Diphenylhydrazine	9.029	77	2326687	55.72	ppm		97
74) 4-Bromophenyl-phenylether	9.522	248	415302	49.69	ppm		87
75) Hexachlorobenzene	9.591	284	422636	46.30	ppm		77
76) Pentachlorophenol	9.928	266	500535	95.02	ppm		98
77) Phenanthrene	10.228	178	2413226	50.08	ppm		99
78) Anthracene	10.308	178	2486314	52.07	ppm		99
79) Carbazole	10.591	167	2341009	52.08	ppm		99
80) Di-n-butylphthalate	11.190	149	3141220	55.54	ppm		99
81) Fluoranthene	12.100	202	2571850	50.25	ppm		97

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 07:59:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	10.099	57	1539227	61.92 ppm	99
84) Pyrene	12.453	202	2638237	49.54 ppm	98
86) Butylbenzylphthalate	13.581	149	1401668	59.75 ppm	96
88) Benzo[a]anthracene	14.378	228	2371958	50.88 ppm	99
89) 3,3'-Dichlorobenzidine	14.383	252	884809	55.32 ppm	99
90) Chrysene	14.437	228	2182259	48.31 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.523	149	1923180	56.91 ppm	98
93) Di-n-octylphthalate	15.523	149	3291441	69.05 ppm	99
94) Benzo[b]fluoranthene	15.999	252	2227728	56.00 ppm	96
95) Benzo[k]fluoranthene	16.036	252	2015433	52.40 ppm	99
96) Benzo[a]pyrene	16.437	252	1880068	55.29 ppm	69
97) Indeno[1,2,3-cd]pyrene	17.919	276	1752602m	50.73 ppm	
98) Dibenz(a,h)acridine	17.609	279	1578166	50.99 ppm	97
99) Dibenz[a,h]anthracene	17.946	278	1793551	47.96 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.988	256	1028775	61.92 ppm	95
101) Benzo[g,h,i]perylene	18.299	276	1768545	47.21 ppm	99

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

7.6.56

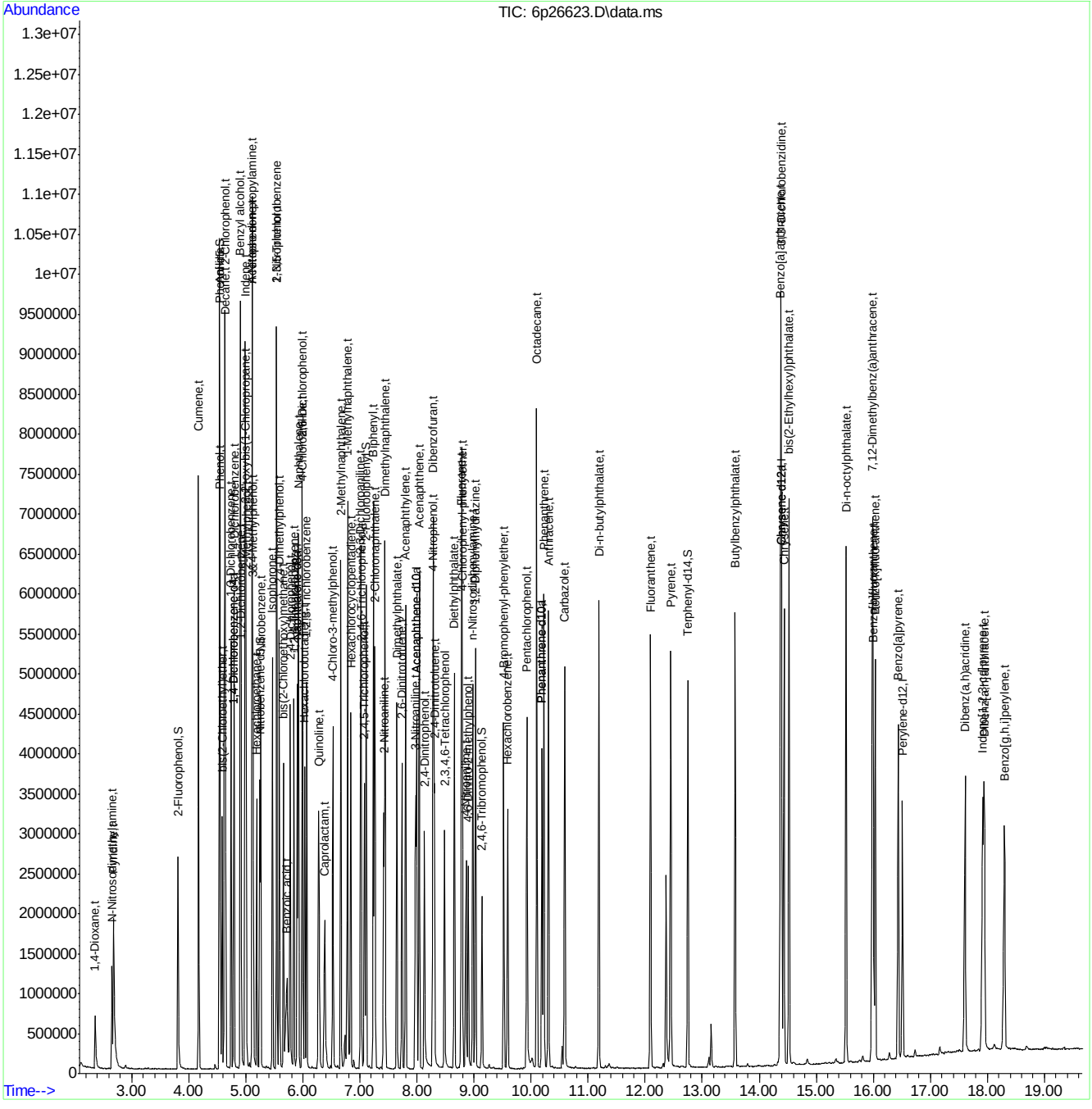
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 07:59:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

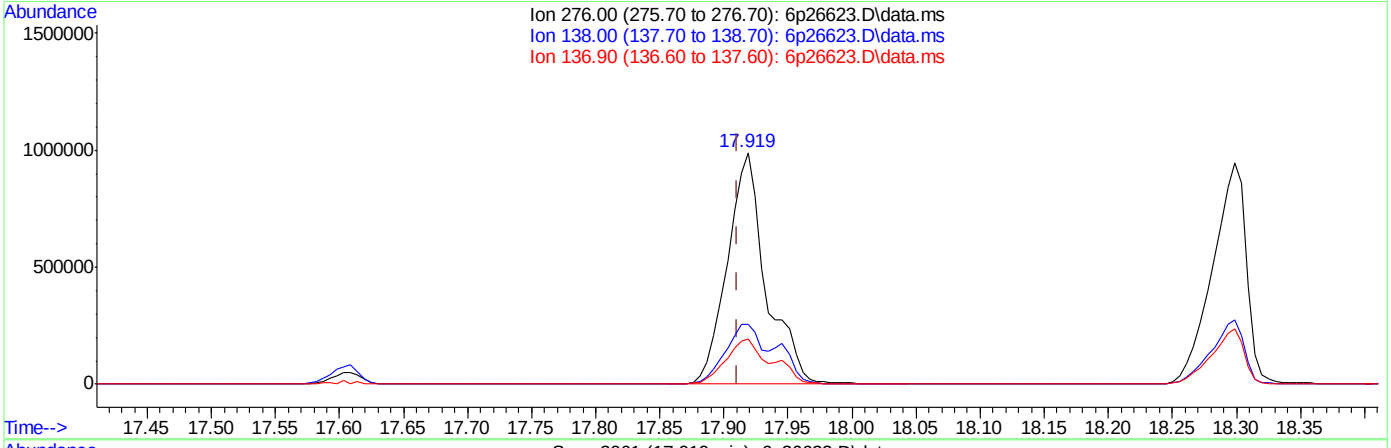
Sample Number:	E6P1236-CC1209	**Method:**	SW846 8270D
Lab FileID:	6P26623.D	**Analyst approved:**	06/03/16 08:23 Arielle Cocozza
Injection Time:	06/02/16 22:35	**Supervisor approved:**	06/03/16 08:49 Nina Pandya

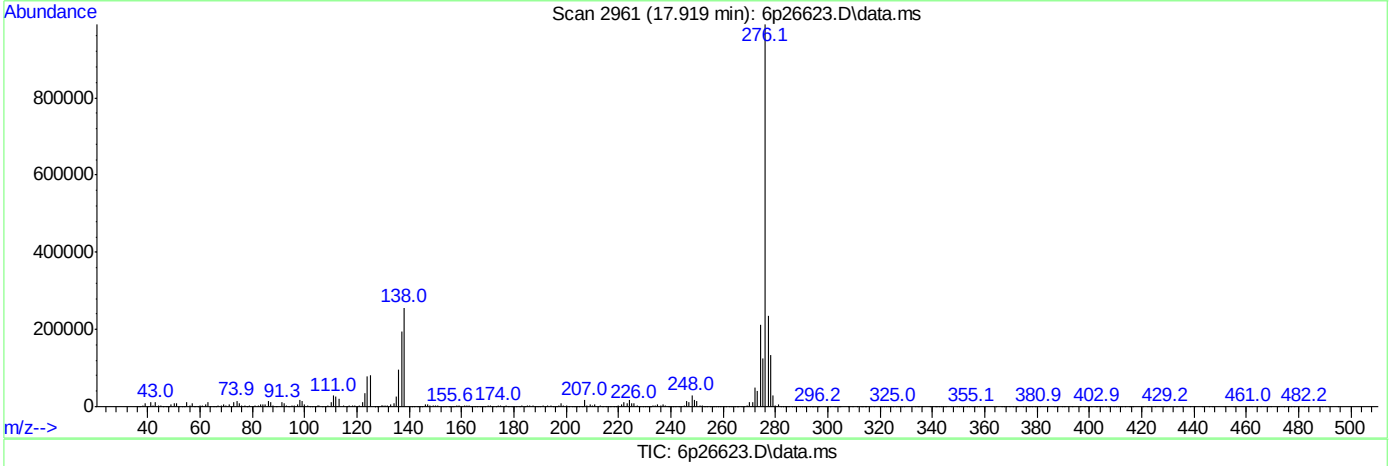
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.72	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		17.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 22:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26623.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.919min (+0.008) 60.44ppm

response 2088094

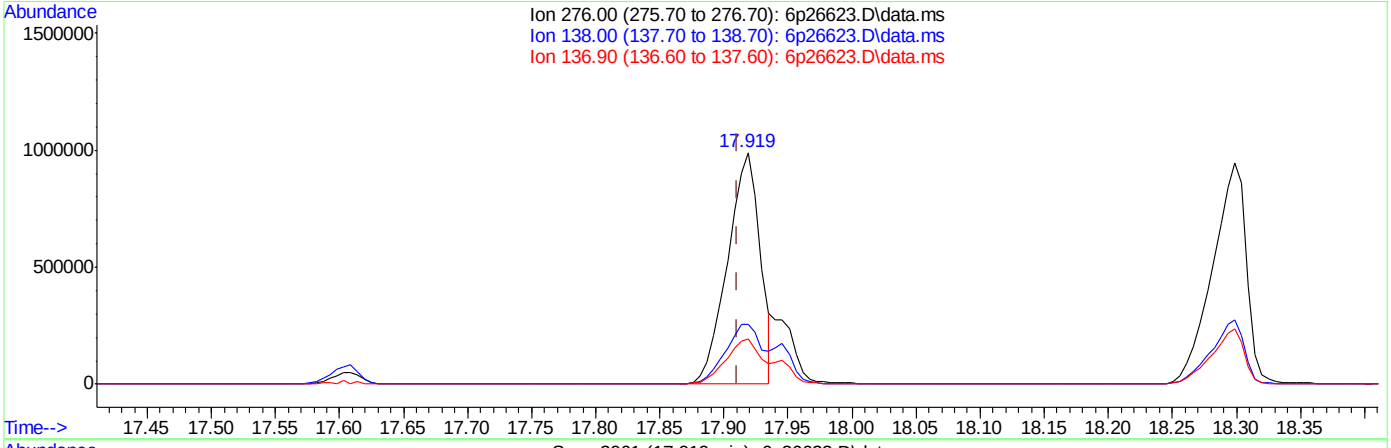
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	25.89
136.90	22.40	19.47
0.00	0.00	0.00

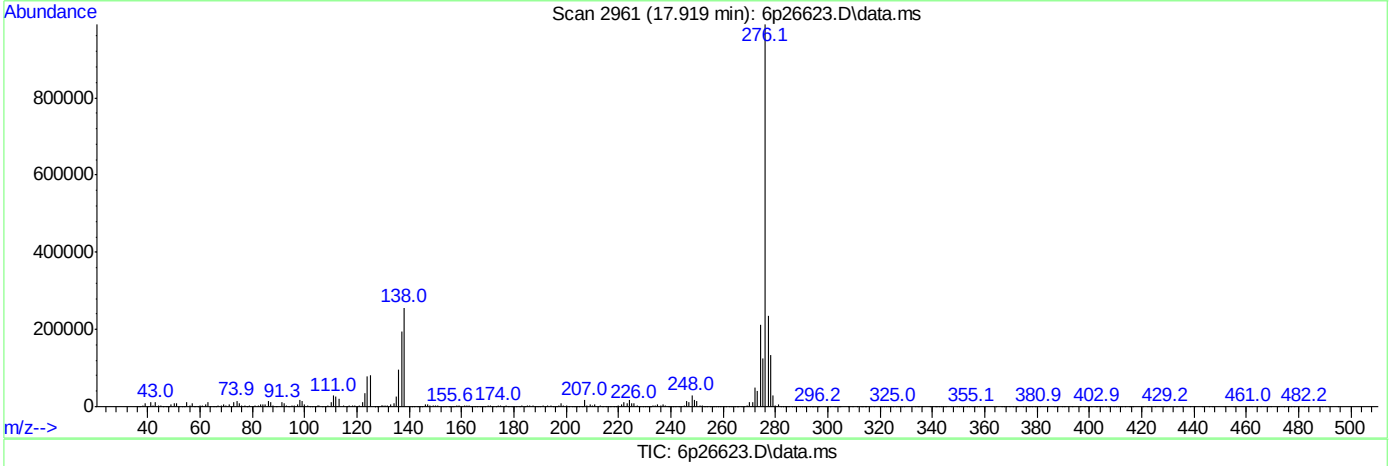
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 22:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26623.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.919min (+0.008) 50.73ppm m

response 1752602

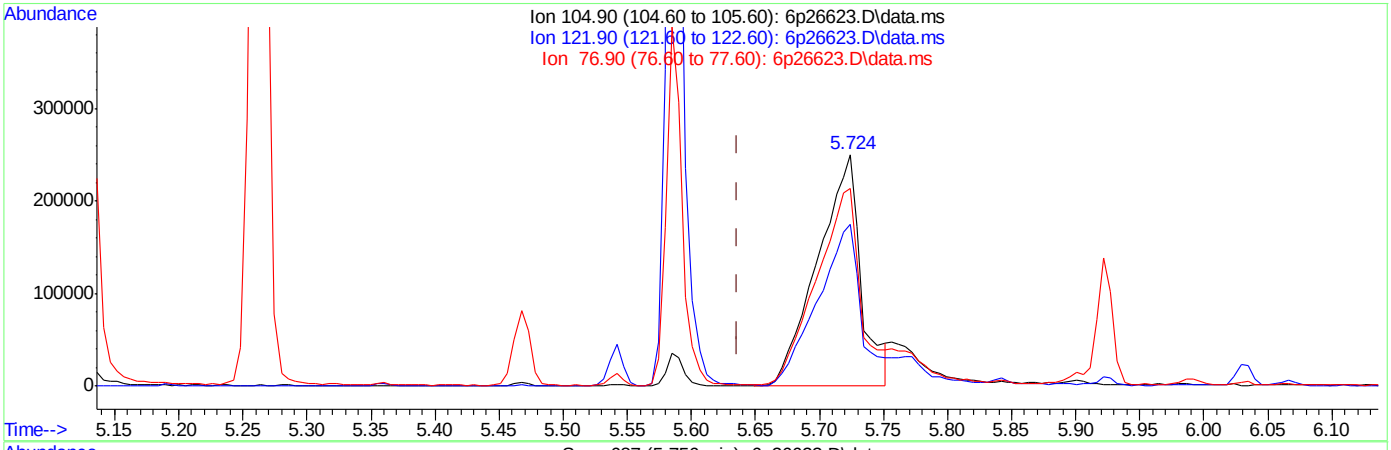
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	25.94
136.90	22.40	19.55
0.00	0.00	0.00

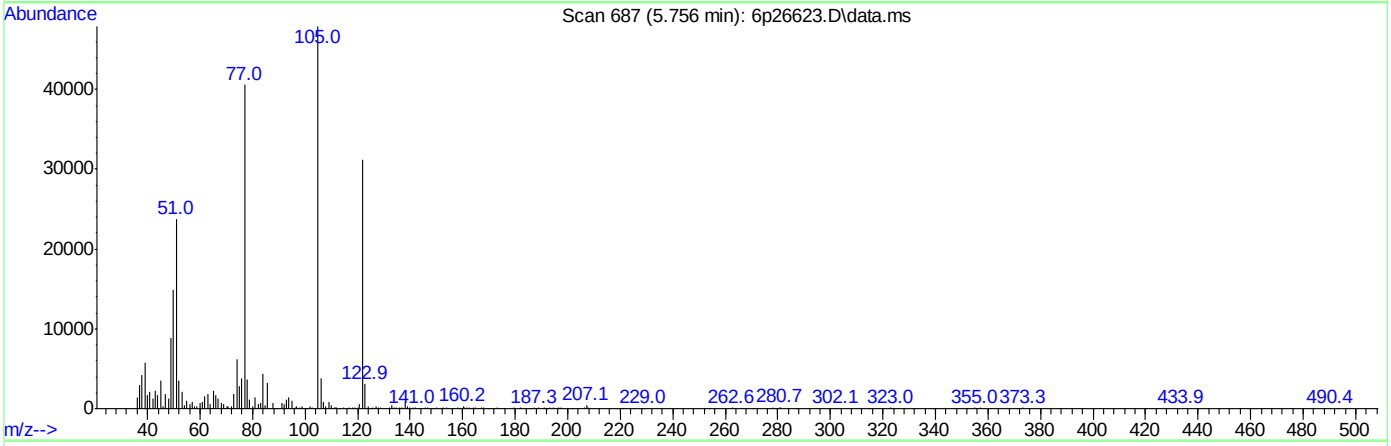
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 22:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26623.D\data.ms

(31) Benzoic acid (t)

5.724min (+0.088) 54.05ppm

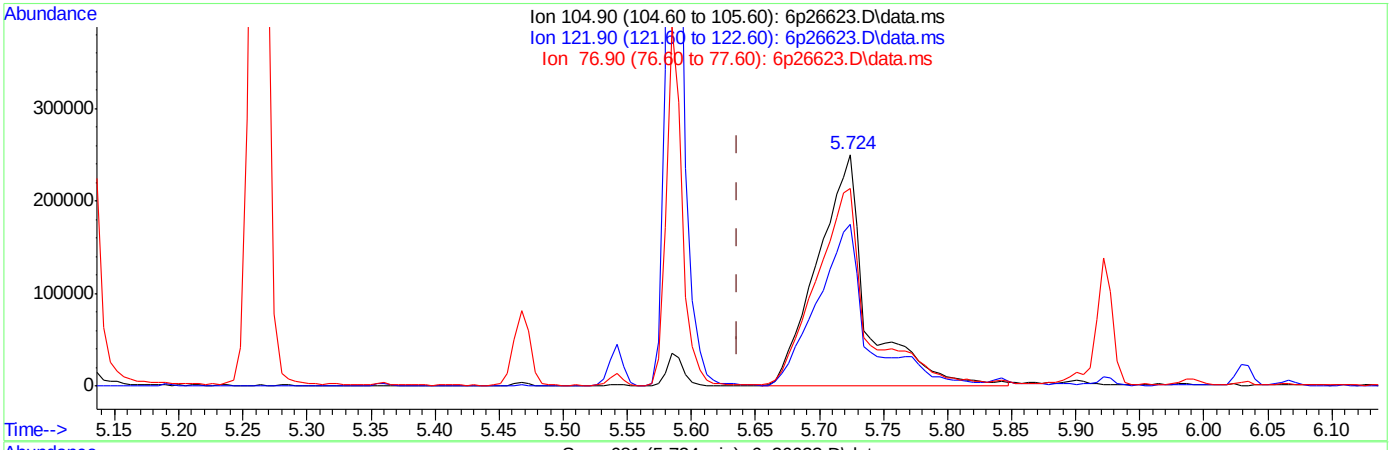
response 584785

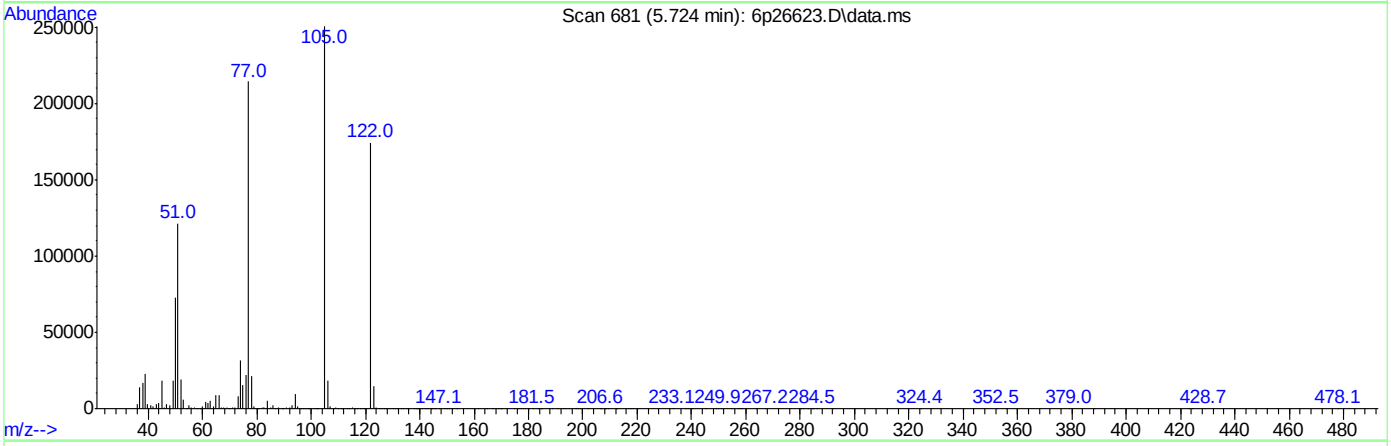
Ion	Exp%	Act%
104.90	100	100
121.90	61.80	69.61
76.90	78.40	85.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26623.D
Acq On : 2 Jun 2016 10:35 pm
Operator : seanb1
Sample : cc1209-50
Misc : op94071,e6p1236
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 22:55:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration





TIC: 6p26623.D\data.ms

(31) Benzoic acid (t)

5.724min (+0.088) 61.97ppm m

response 688768

Ion	Exp%	Act%
104.90	100	100
121.90	61.80	69.63
76.90	78.40	85.54
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26624.D
Acq On : 2 Jun 2016 11:02 pm
Operator : seanb1
Sample : cc1210-50
Misc : op94071,e6p1236
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 08:00:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration

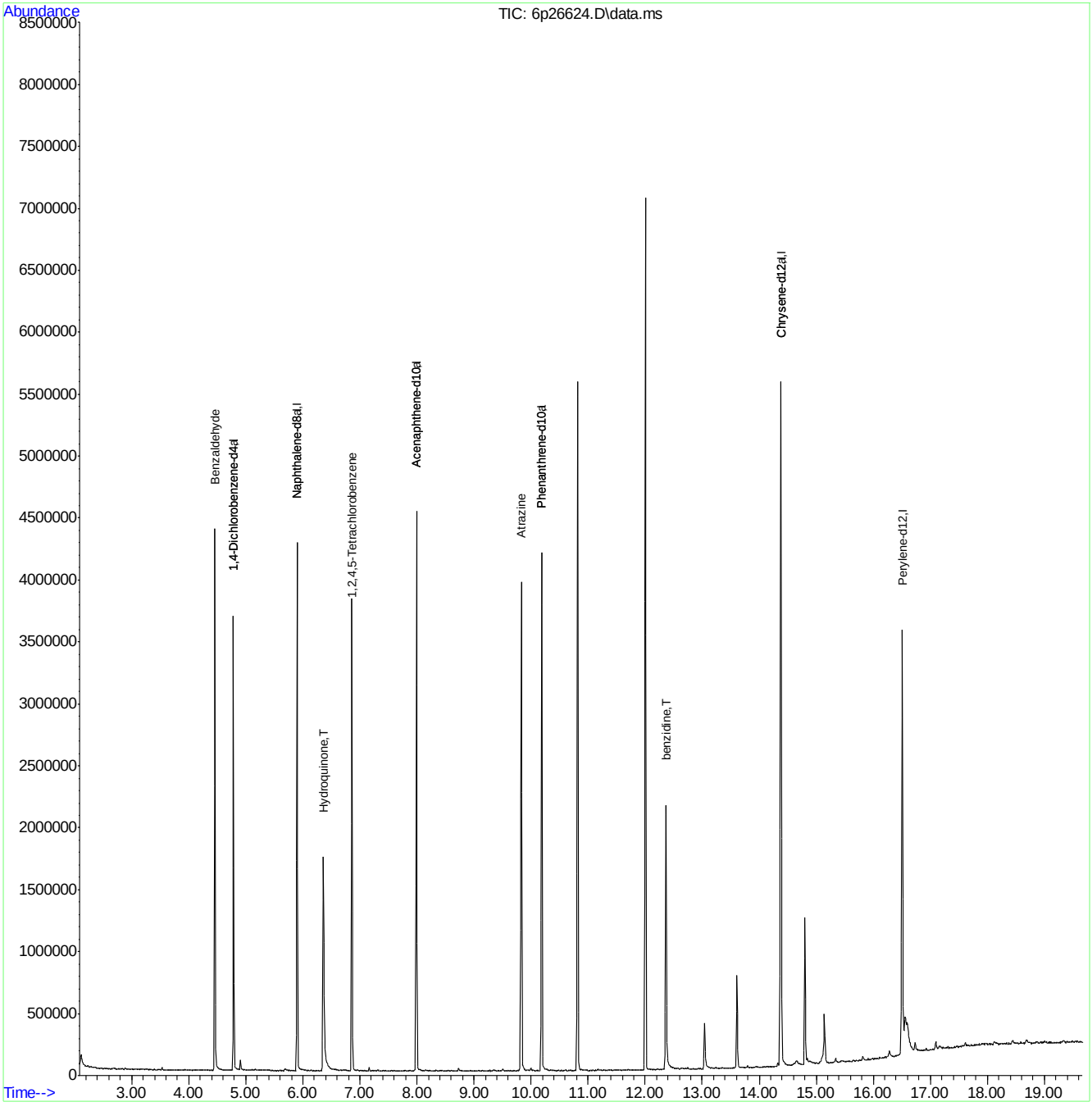
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.783	152	403591	40.00	ppm	-0.01
24) Naphthalene-d8	5.900	136	1715472	40.00	ppm	-0.02
47) Acenaphthene-d10	7.992	164	1006528	40.00	ppm	-0.02
69) Phenanthrene-d10	10.185	188	1690978	40.00	ppm	-0.02
83) Chrysene-d12	14.383	240	1559997	40.00	ppm	-0.02
92) Perylene-d12	16.507	264	1353575	40.00	ppm	-0.02
102) 1,4-Dichlorobenzene-d4a	4.783	152	403591	40.00	ppm	-0.01
104) Acenaphthene-d10a	7.992	164	1006528	40.00	ppm	-0.02
106) Phenanthrene-d10a	10.185	188	1690978	40.00	ppm	-0.02
108) Chrysene-d12a	14.383	240	1559997	40.00	ppm	-0.02
110) Naphthalene-d8a	5.900	136	1715472	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.456	105	589187	48.47	ppm	94
105) 1,2,4,5-Tetrachloroben...	6.863	216	592112	47.46	ppm	100
107) Atrazine	9.832	215	237569	56.25	ppm	80
109) benzidine	12.367	184	967582	57.49	ppm	98
111) Hydroquinone	6.360	110	851788	52.49	ppm	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E6P1236\
Data File : 6p26624.D
Acq On : 2 Jun 2016 11:02 pm
Operator : seanb1
Sample : cc1210-50
Misc : op94071,e6p1236
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 08:00:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuThu Jun 02 09:54:12 2016
QLast Update : Thu Jun 02 09:54:12 2016
Response via : Initial Calibration



M6P1209.M Fri Jun 03 08:00:38 2016 ACLIMS Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/06/16 13:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26700.D
Acq On : 6 Jun 2016 8:44 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1239
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 10:29:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:27:54 2016
QLast Update : Mon Jun 06 10:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.756	152	484824	40.00	ppm	0.00
24) Naphthalene-d8	5.868	136	1951932	40.00	ppm	0.00
47) Acenaphthene-d10	7.954	164	1085687	40.00	ppm	0.00
69) Phenanthrene-d10	10.142	188	1790600	40.00	ppm	0.00
83) Chrysene-d12	14.346	240	1583065	40.00	ppm	-0.06
92) Perylene-d12	16.464	264	1267130	40.00	ppm	-0.06
102) 1,4-Dichlorobenzene-d4a	4.756	152	484824	40.00	ppm	-0.04
104) Acenaphthene-d10a	7.954	164	1085687	40.00	ppm	-0.06
106) Phenanthrene-d10a	10.142	188	1790600	40.00	ppm	-0.06
108) Chrysene-d12a	14.346	240	1583065	40.00	ppm	-0.06
110) Naphthalene-d8a	5.868	136	1951932	40.00	ppm	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	3.782	112	385526	20.87	ppm	0.01
Spiked Amount 50.000			Recovery = 41.74%			
8) Phenol-d5	4.499	99	549246	22.71	ppm	0.02
Spiked Amount 50.000			Recovery = 45.42%			
25) Nitrobenzene-d5	5.210	82	554550	25.48	ppm	0.00
Spiked Amount 50.000			Recovery = 50.96%			
51) 2-Fluorobiphenyl	7.072	172	884637	25.28	ppm	0.00
Spiked Amount 50.000			Recovery = 50.56%			
73) 2,4,6-Tribromophenol	9.099	330	94004	20.95	ppm	0.02
Spiked Amount 50.000			Recovery = 41.90%			
85) Terphenyl-d14	12.704	244	823041	24.82	ppm	-0.07
Spiked Amount 50.000			Recovery = 49.64%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.328	88	164246	19.08	ppm	93
3) Pyridine	2.654	79	452475	20.76	ppm	92
4) N-Nitrosodimethylamine	2.622	74	256730	19.72	ppm	72
6) Indene	4.959	116	827403	25.09	ppm	100
7) Cumene	4.146	105	1195997	25.56	ppm	99
9) Phenol	4.510	94	640197	24.69	ppm #	62
10) Aniline	4.510	93	704671	23.96	ppm	93
11) bis(2-Chloroethyl)ether	4.553	93	417865	22.67	ppm	95
12) 2-Chlorophenol	4.606	128	455184	24.21	ppm	96
13) Decane	4.611	43	568203	23.56	ppm	98
14) 1,3-Dichlorobenzene	4.713	146	471827	23.97	ppm	99
15) 1,4-Dichlorobenzene	4.772	146	483681	24.25	ppm	97
16) Benzyl alcohol	4.873	108	296392	23.07	ppm	92
17) 1,2-Dichlorobenzene	4.890	146	454503	24.06	ppm	99
18) Acetophenone	5.082	105	678010	24.91	ppm	96
19) 2-Methylphenol	4.970	108	421246	23.54	ppm	91
20) 2,2'-oxybis(1-Chloropr...	4.970	121	157213	23.83	ppm #	64
21) 3&4-Methylphenol	5.098	108	444326	23.54	ppm	93
22) n-Nitroso-di-n-propyla...	5.077	70	396628	24.43	ppm	98
23) Hexachloroethane	5.162	201	145293	24.44	ppm	90
26) Nitrobenzene	5.226	77	576437	25.36	ppm	95
27) Quinoline	6.243	129	884191	24.29	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26700.D
Acq On : 6 Jun 2016 8:44 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1239
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 10:29:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:27:54 2016
QLast Update : Mon Jun 06 10:27:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28)	Isophorone	5.430	82	945770	24.51	ppm		96
29)	2-Nitrophenol	5.510	139	252436	26.29	ppm	#	71
30)	2,4-Dimethylphenol	5.553	107	480407	26.94	ppm		96
31)	Benzoic acid	5.665	105	358498	32.79	ppm		87
32)	bis(2-Chloroethoxy)met...	5.628	93	505764	23.20	ppm		99
33)	2,4-Dichlorophenol	5.740	162	338676	24.73	ppm		95
34)	2,6-Dichlorophenol	5.954	162	338107	25.67	ppm		95
35)	1,3,5-Trichlorobenzene	5.510	180	381277	25.34	ppm		96
36)	1,2,4-Trichlorobenzene	5.809	180	357666	24.82	ppm		98
37)	1,2,3-Trichlorobenzene	6.034	180	346359	24.44	ppm		99
38)	Naphthalene	5.890	128	1331501	24.18	ppm		92
39)	4-Chloroaniline	5.949	127	536732	23.89	ppm		98
40)	2,3-Dichloroaniline	6.975	161	430430	25.34	ppm		97
41)	Caprolactam	6.328	55	217476	23.56	ppm		94
42)	Hexachlorobutadiene	5.997	225	192374	26.14	ppm		96
43)	4-Chloro-3-methylphenol	6.483	107	446640	26.36	ppm		96
44)	2-Methylnaphthalene	6.628	141	752793	25.47	ppm		97
45)	1-Methylnaphthalene	6.745	141	798126	26.29	ppm		95
46)	Dimethylnaphthalene	7.398	156	788043	25.45	ppm		95
48)	Hexachlorocyclopentadiene	6.804	237	225575	29.66	ppm		94
49)	2,4,6-Trichlorophenol	6.981	196	236082	26.78	ppm		99
50)	2,4,5-Trichlorophenol	7.034	196	240635	24.87	ppm		98
52)	2-Chloronaphthalene	7.222	162	761037	24.56	ppm		99
53)	Biphenyl	7.195	154	1084005	26.04	ppm		100
54)	2-Nitroaniline	7.371	65	344048	30.48	ppm		91
55)	Dimethylphthalate	7.607	163	902994	24.98	ppm		100
56)	Acenaphthylene	7.762	152	1327901	25.56	ppm		99
57)	2,6-Dinitrotoluene	7.698	165	203504	27.47	ppm		94
58)	3-Nitroaniline	7.928	138	230639	24.39	ppm		92
59)	Acenaphthene	7.997	153	819878	25.03	ppm		99
60)	2,4-Dinitrophenol	8.088	184	160376	46.42	ppm		98
61)	4-Nitrophenol	8.232	109	131704	23.69	ppm	#	57
62)	Dibenzofuran	8.243	168	1122470	25.77	ppm		94
63)	2,4-Dinitrotoluene	8.265	165	286130	28.76	ppm		75
64)	2,3,4,6-Tetrachlorophenol	8.436	232	178942	26.10	ppm		99
65)	Diethylphthalate	8.612	149	941097	25.56	ppm		99
66)	Fluorene	8.735	166	936217	25.67	ppm		98
67)	4-Chlorophenyl-phenyle...	8.751	204	409278	24.96	ppm		95
68)	4-Nitroaniline	8.810	138	222205	22.43	ppm		96
70)	4,6-Dinitro-2-methylph...	8.853	198	143382	28.20	ppm		89
71)	n-Nitrosodiphenylamine	8.933	169	624026	24.95	ppm		100
72)	1,2-Diphenylhydrazine	8.987	77	1128885	25.09	ppm		99
74)	4-Bromophenyl-phenylether	9.479	248	217158	24.11	ppm		91
75)	Hexachlorobenzene	9.548	284	218343	22.20	ppm		86
76)	Pentachlorophenol	9.880	266	235150	41.43	ppm		98
77)	Phenanthrene	10.179	178	1259591	24.26	ppm		99
78)	Anthracene	10.260	178	1290843	25.09	ppm		98
79)	Carbazole	10.543	167	1198389	24.74	ppm		99
80)	Di-n-butylphthalate	11.147	149	1539967	25.27	ppm		100
81)	Fluoranthene	12.046	202	1335041	24.21	ppm		98

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26700.D
Acq On : 6 Jun 2016 8:44 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1239
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 10:29:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:27:54 2016
QLast Update : Mon Jun 06 10:27:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	10.056	57	741688	27.69 ppm	98
84) Pyrene	12.399	202	1371670	25.54 ppm	99
86) Butylbenzylphthalate	13.533	149	672123	28.42 ppm	95
88) Benzo[a]anthracene	14.325	228	1190184	25.32 ppm	98
89) 3,3'-Dichlorobenzidine	14.335	252	431551	26.76 ppm	99
90) Chrysene	14.383	228	1097498	24.10 ppm	99
91) bis(2-Ethylhexyl)phtha...	14.480	149	900183	26.83 ppm	99
93) Di-n-octylphthalate	15.474	149	1505010	31.72 ppm	99
94) Benzo[b]fluoranthene	15.940	252	1072024	26.75 ppm	97
95) Benzo[k]fluoranthene	15.977	252	952704	24.59 ppm	99
96) Benzo[a]pyrene	16.384	252	909495	26.55 ppm	68
97) Indeno[1,2,3-cd]pyrene	17.855	276	797125m	22.91 ppm	
98) Dibenz(a,h)acridine	17.550	279	737832	23.67 ppm	97
99) Dibenz[a,h]anthracene	17.881	278	841838	22.35 ppm	99
100) 7,12-Dimethylbenz(a)an...	15.934	256	476304	28.46 ppm	92
101) Benzo[g,h,i]perylene	18.224	276	812321	21.53 ppm	98

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

7.6.58

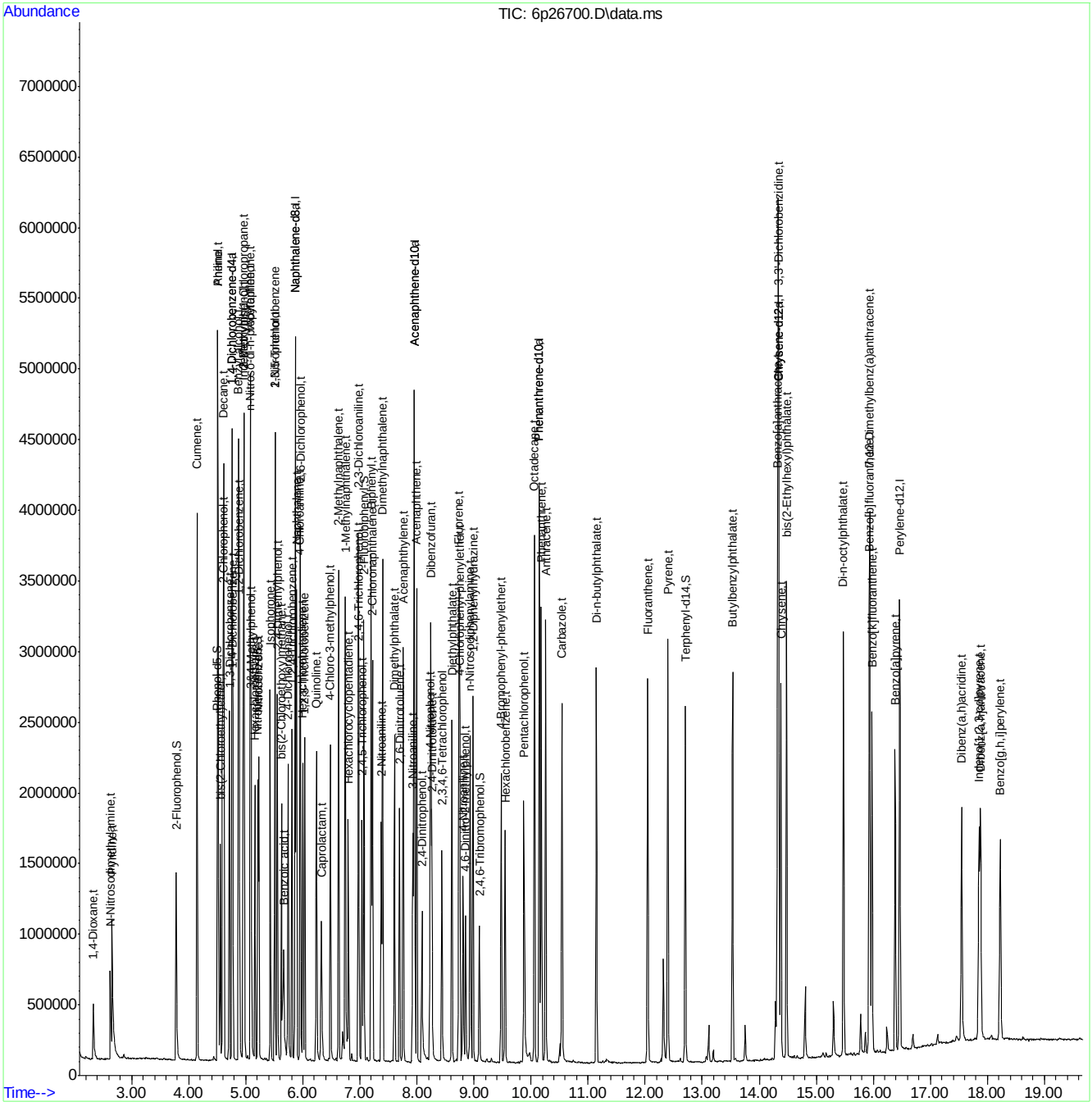
7

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26700.D
Acq On : 6 Jun 2016 8:44 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1239
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 10:29:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:27:54 2016
QLast Update : Mon Jun 06 10:27:54 2016
Response via : Initial Calibration



SGS ACCUTEST JC21229

Manual Integration Approval Summary

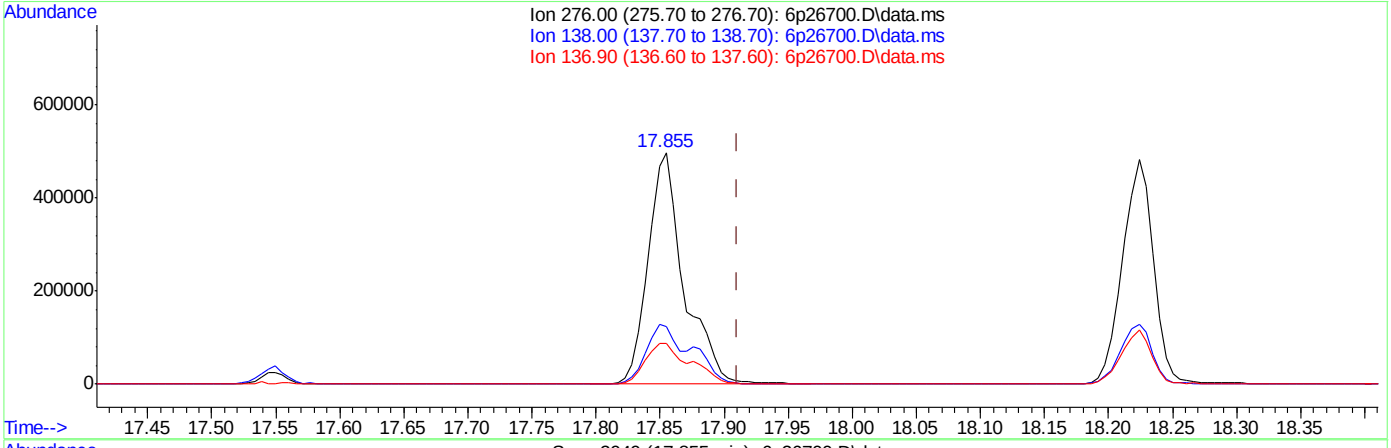
Sample Number:	E6P1239-CC1209	**Method:**	SW846 8270D
Lab FileID:	6P26700.D	**Analyst approved:**	06/06/16 10:34 Arielle Cocozza
Injection Time:	06/06/16 08:44	**Supervisor approved:**	06/06/16 13:42 Nina Pandya

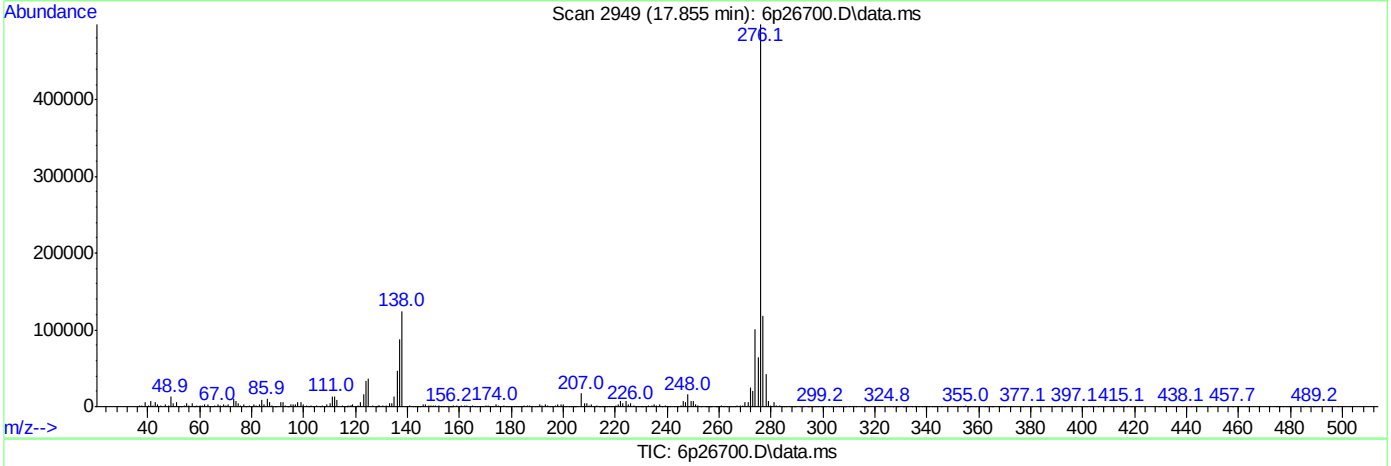
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		17.85	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26700.D
Acq On : 6 Jun 2016 8:44 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1239
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 10:28:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:27:54 2016
QLast Update : Mon Jun 06 10:27:54 2016
Response via : Initial Calibration





TIC: 6p26700.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.855min (-0.056) 27.75ppm

response 965836

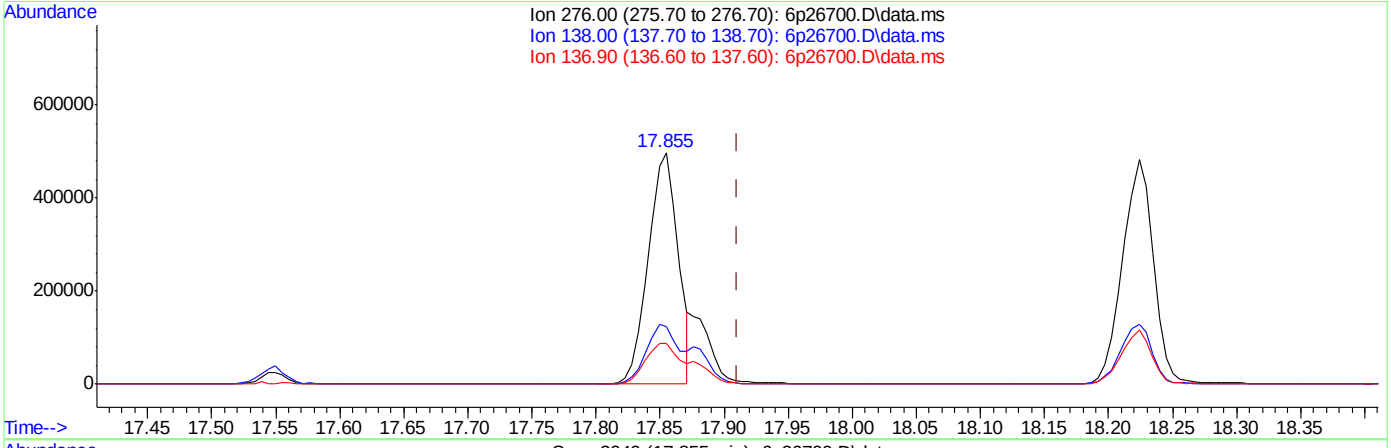
Ion	Exp%	Act%
276.00	100	100
138.00	28.40	24.94
136.90	22.40	17.39
0.00	0.00	0.00

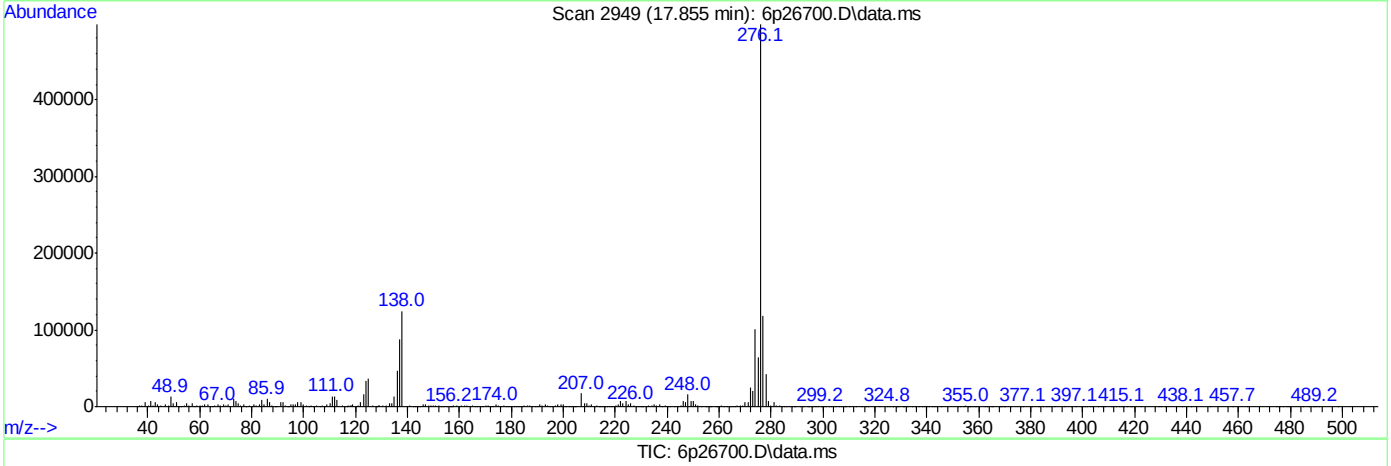
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26700.D
Acq On : 6 Jun 2016 8:44 am
Operator : ariellec
Sample : cc1209-25
Misc : op94071,e6p1239
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 10:28:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:27:54 2016
QLast Update : Mon Jun 06 10:27:54 2016
Response via : Initial Calibration





TIC: 6p26700.D\data.ms

(97) Indeno[1,2,3-cd]pyrene (t)

17.855min (-0.056) 22.91ppm m

response 797125

Ion	Exp%	Act%
276.00	100	100
138.00	28.40	25.07
136.90	22.40	17.52
0.00	0.00	0.00

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26701.D
Acq On : 6 Jun 2016 9:11 am
Operator : ariellec
Sample : cc1210-25
Misc : op94071,e6p1239
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 10:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:29:27 2016
QLast Update : Mon Jun 06 10:29:27 2016
Response via : Initial Calibration

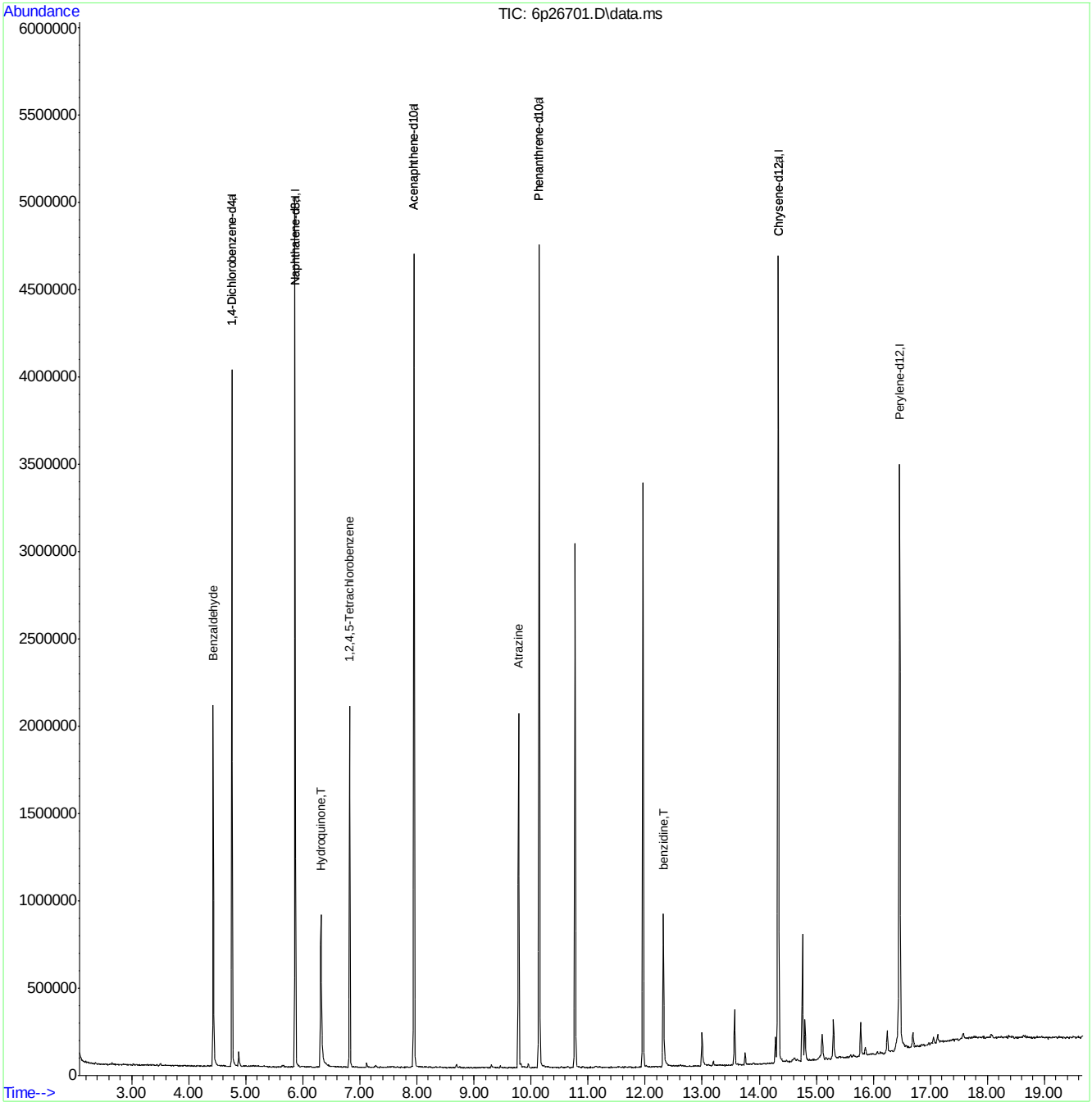
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.756	152	450732	40.00	ppm	0.00
24) Naphthalene-d8	5.863	136	1895895	40.00	ppm	0.00
47) Acenaphthene-d10	7.949	164	1080399	40.00	ppm	0.00
69) Phenanthrene-d10	10.142	188	1873290	40.00	ppm	0.00
83) Chrysene-d12	14.341	240	1603738	40.00	ppm	0.00
92) Perylene-d12	16.464	264	1344371	40.00	ppm	0.00
102) 1,4-Dichlorobenzene-d4a	4.756	152	450732	40.00	ppm	0.00
104) Acenaphthene-d10a	7.949	164	1080399	40.00	ppm	0.00
106) Phenanthrene-d10a	10.142	188	1873290	40.00	ppm	0.00
108) Chrysene-d12a	14.341	240	1603738	40.00	ppm	0.00
110) Naphthalene-d8a	5.863	136	1895895	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
103) Benzaldehyde	4.430	105	312780	23.04	ppm	97
105) 1,2,4,5-Tetrachloroben...	6.821	216	329538	24.61	ppm	97
107) Atrazine	9.784	215	124796	26.67	ppm	90
109) benzidine	12.319	184	410040	27.54	ppm	97
111) Hydroquinone	6.318	110	425207	23.71	ppm	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\e6p1239\
Data File : 6p26701.D
Acq On : 6 Jun 2016 9:11 am
Operator : ariellec
Sample : cc1210-25
Misc : op94071,e6p1239
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 10:30:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M6P1209.M
Quant Title : Semi Volatile GC/MS,zb-5msi 30m x .25mm x .25MoTuMon Jun 06 10:29:27 2016
QLast Update : Mon Jun 06 10:29:27 2016
Response via : Initial Calibration



M6P1209.M Mon Jun 06 10:30:14 2016 ACLIMS

SGS ACCUTEST JC21229

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M 2887

Print Analyst Name: LINSELK

Analyst Signature: LK

Date: 5/17/16

Columns: ZB-5ms 30m x .25mm x .25um

Method 8270 D/625

Initial Cal. Method M3M2887.im

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827-91	DFTPP	50ppm
SV161935-29	SIM Internal	40ppm
162941	DCMetfisher	—

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: 5/18/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61384	DFTPP			W	1					OK	8:50AM
	61385	ICC2887-1.0			W	2					rr	wrong method.
	61386	ICC2887-1.0			W	2					rr	double injected.
	61387A	ICC2887-1.0			W	2					OK	SV161935-91A rerun A file bad injection
	61388A	ICC2887-0.5			W	3					OK	SV161935-91B
	61389A	B BLK5716 -0.2				4					OK	SV151827-104E rerun B file bad injection
	61390A	-0.1				5					OK	SV151827-104F
	61391A	BLK5716 -0.05				6					OK	-104G
	61392A	B -0.02				7					OK	-104H rerun B file bad injection
	61393	-0.01				8					OK	SV151827-104I
	61394	-5.0				9					OK	-104A
	61395	-2.5				10					OK	-104B
	61396	ICV2887-1.0		Acids		11					RR	SV151827-97 4.0 control
	61397	-1.0		Bsm		12					OK	OP151124-73
	61398	-1.0		Bn2		13					OK	SV151829-85 7:45pm

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 E3M2888

Print Analyst Name: LINSCUK

Analyst Signature: [signature]

Date: 5/18/16

Columns: ZB-5ms 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method M3M2887Bim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15182791	DFTPP	50ppm
SM16935	39 SMI thermal	400ppm
1621041	DCM-Fisher	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 5/18/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M61339	DFTPP			W	1					OK	9:00 AM
	61400	ICV2887-1.0		Acids	W	2					OK	SV15182792 9:12AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2915

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/1/16

Columns: ZB5ms+30m x 25mm x 25µm

Method: 8270D/625

Initial Cal. Method: M3M2887SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SY15182291	DFTPP	50ppm
SY16193557A	SIM STD	1ppm
-55	SIM IS	400ppm
162800	DCM (fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61849	DFTPP				1					OK	8:40pm
	61850	CC2887-1.0				2					OK	
	61851	OP94327a-MBI	94327			3			/	/	OK	
	61852	JC21103-7		BSIM 14 DIOX, BSIM NAP		4			/	/	OK	
	61853	JC20435-7	94121	BSIM ND, 14 DIOX		5	1:2		/	/	OK	
	61854	-8				6	1:5		↑	↓	OK	All internals in. All surr in.
	61855	OP94328a-MBI	94328	AB8270		7			/	/	OK	
	61856	-BS12				8			/	/	OK	
	61857	-MS				9			/	/	OK	
	61858	-MSD				10			/	5 ↓	OK	
	61859	JC21229-3		BSIM NJ 14 DIOX		11			/	/	OK	
	61860	-4				12			/	/	OK	
	61861	JC20647-25	94187	14 DIOX SIM		13			/	/	OK	
	61862	-26		↓		14			/	/	OK	
	61863	-27				15			/	/	OK	
	61864	-28				16			/	/	OK	MM by 8270!
	61865	-29		↓		17			/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID E3M2915

Print Analyst Name: Julius Johnson

Analyst Signature: JM

Date: 6/1/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 167	

Columns: ZB-5 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2887Sim

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: JM

Date: 6-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M61866	JC20647-30	94187	14DIOXSIM		18			/	/	OK	
	61867	JC20984-1	94287	SIM 14DIOX		19			/	/	OK	
	61868	JC20985-1		↓		20			/	/	OK	
	61869	JC20357-2	94110	BSIMNS. +14Dioxy		21	1:2		/	/	OK	
	61870	-4				22			/	/	OK	8:03AM

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 E3M2924

Print Analyst Name: ASMCCMIZJP

Analyst Signature: AMO

Date: 6/7/2016

Columns: 2B5MS (+) 30m x 25mm x 5 µm

Method 8270D/625

Initial Cal. Method E3M2887SIM

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151779	DFTPP	50 ppm
SV16BS57	SIM std.	5 ppm
SV16BS55	SIM internal	400 ppm
163036	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M162036	DFTPP				1					OK	1038PM
	62037	CC2887-5		BASIM	W	2					OK	29,30↑
	62038	JC20992-1	943281	BSIMNS +1/4DIOX	W	3			/		W	W Co↑
	62039	-2				4			/	2↓	OK	
	62040	-3				5					W	Co↑
	62041	-4				6			/	/	OK	
	62042	-5				7			/	/	OK	
	62043	-6				8			/	/	OK	~~Swap to for DOD~~ RL 6/8/16
	62044	-7				9			/	/	OK	
	62045	-9				10			/	/	OK	
	62046	op94328mb1		B8270		11			/	/	OK	ran after 3M162037
	62047	-bs12				12			/	/	OK	
	62048	-ms				13			/	/	OK	
	62049	-msd				14			/	5↓	OK	
	62050	JC21317-1	944251	BSIMNS+ 1/4DIOX	W	15			/	/	OK	
	62051	op94306mb1	943061	AB8270	W	16			/	/	OK	
	62052	JC20966-2		BSIMNS +1/4DIOX		17			/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2924

Print Analyst Name: Ashley Mayo

Analyst Signature: AMO

Date: 6/7/2016.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 1	

Columns: 7B5173 30m .25 mm .25 µm

Method 8270D/625

Initial Cal. Method 113M2887sim

Injection Volume: 1 µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62053	JC70966-3	94306-1	BS1M7 NS+ 1,4DIOX	W	18			/	/	OK	
	62054	-4				19			/	/	OK	
	62055	-5				20			/	/	OK	
	62056	-6				21			/	/	OK	
	62057	-7				22			/	/	OK	
	62058	-8				23			/	/	OK	10:00AM
	62059	-9				24					not run	would be out of clock
	62060	-10				25					not run	would be out of clock

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

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2925

Print Analyst Name: Linsell/K

Analyst Signature: JK

Date: 6/8/16

Columns: 2B-5ms @ 30m x .25mm x .25um

Method 8270D/625

Initial Cal. Method M3M2887SIM

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVE82791	DFTPP	50ppm
SVL6825	57 SIM Std.	1.0ppm
71	SIM ISTD	40ppm
168330	DCM-Extraction	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/9/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M02001	DFTPP			W	1					OK	11:12AM
	02002	CC2887-1.0		BNsim	W	2					OK	BNonly!
	02003	OP94162-MS	941621	BS270	S	3			/	/	OK	
	02004	-MSD				4			/	/	OK	
	02005	JC20192-1	943281	BSIMNW Holiday		5			/	/	OK	
	02006	-3				6			/	/	OK	
	02007	JC20777-14	942134	Pell		7			4	/	OK	CA
	JK 6/9/16 X 02008	-23				8			/	/	OK	
	02009	-24				9			/	/	OK	
	02070	-25				10			/	/	OK	
	02071	JC20774-4	941621	Pell		11			/	/	OK	
	02072	-5				12			/	/	OK	
	02073	-6				13			/	/	OK	
	02074	-7				14			/	/	OK	
	02075	OP94162-MS		BS270		15			/	/	OK	
	02076	-MSD				16			/	/	OK	
	02077	CC2887-1.0				17					OK	7:43pm

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 E3M2930

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/10/16

Columns: ZB-5ms (+) 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2887SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1518279I	DFTPP	50 ppm
SV1493557G	SIM STD	0.5 ppm
-71	SIM IS	400 ppm
163036	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: JM

Date: 6-13-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62146	DFTPP				1					ok	8:33pm BNONLY
	62147	CC2587-0.5				2					ok	
	62148	OP94454a-MB1	94454	B8270		3					not using	underfilling
	62149	-BS12				4						
	62150	-MS				5						
	62151	-MSD				6						
	62152	JC21236-12		BSIMPAH		7						
	62153	-10				8						
	62154	-5				9						
	62155	OP94470a-MB1	94470	B8270		10			/	/	ok	
	62156	-BS12				11			/	/	ok	
	62157	-MS				12			/	/	ok	
	62158	-MSD				13			/	/	ok	
	62159	JC21261-2		SIM 1,4 D10X + NAP		14			/	/	ok	
	62160	-3				15			/	/	ok	
	62161	OP94471a-MB1	94471	B8270		16			/	/	ok	
	62162	-BS12				17			/	/	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21229

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2930

Print Analyst Name: Julius M. Johnson

Date: 6/10/16

Analyst Signature: JMJ

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 19	

Columns: ZB5MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2987SIM

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-13-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	62163	OP94471a-MS	94471	B8270		18			/	/	ok	
	62164	-MSD				19			/	/	ok	
	62165	JC21347-2		SIM 14Diox-NAP		20			/	/	ok	
	62166	OP94419a-MB1	94419	B8270		21			/	/	ok	
	62167	-BS12				22			/	/	ok	
	62168	JC21229-1		BSIM14Diox BSIM NAP		23			/	/	ok	8:09AM
	62169	-2		↓		24					ok	Out of Clock 8:41AM

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 E4P887

Print Analyst Name: Linsey/c

Analyst Signature: [signature]

Date: 6/6/16

Columns: Rtx-5ilms 30mx.25mmx.25um

Method 8270D/1625 ~~8270 AK160/0~~

Initial Cal. Method M4P887Bsim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV160791	DFTPP	50ppm
SV160935	55 SIMSK ISTD	40ppm
	AK160/0	
1603836	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-6-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4P16065	DFTPP			W	1					ok	front pk ragged
	16066	DFTPP			W	1					ok	8:49AM
	16067	CCS891-0.5		B1Csim	W	2					↓	low response
	16068	DFTPP ~~AK160/0~~			W	1					ok	9:57AM
	16069	CCS891-0.5		B1Csim	W	2					ok	SV160935-57B
	16070	ICCS887-1.0				3					ok	-57A
	16071	ICS887-0.2				4					ok	-60C
	16072	-0.1				5					ok	-60D
	16073	-0.05				6					ok	-60E
	16074	-0.02				7					ok	-60F
	16075	-0.01				8					ok	-60G
	16076	-50				9					ok	-60A
	16077	-2.5				10					ok	-60B
	16078	ICV887-1.0		Acids 2nd		11					ok	SV160935-66
	16079	ICV887-1.0		Bsim 2nd		12					ok	QC160712-28 3:19pm

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 JC21229

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4P896

Print Analyst Name: Linsey K

Date: 6/13/16

Analyst Signature: LK

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SI158291	DFTPP	50ppm
SI160935-37	SIMSC.	1.0ppm
-71	SIM TSTD	400ppm
160836	DCM-(Fisher)	—

Columns: RTX-5silms 30mx.25mx.25um

Method 8270D/625

Initial Cal. Method MY8887sim

Injection Volume: 1uL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-13-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4P160859	DFTPP			W	1					OK	8:54AM
	160860	CC887-1.0		BNAsim	W	2					nr	wrong method.
	160861	CC887-1.0		BNAsim	W	2					nr	wrong lot #
	160862	CC887-1.0		BNAsim	W	3	LK 61316				OK	SI160935-72
	160863	OP94419mb	944191	B8270 SIM	W	3	LK 61316		/	/	OK	
	160864	JC21229-2		naphthalene		4			/	/	OK	
	160865	OP94419MS		B8270		5			/	/	OK	
	160866	-MSD				6			/	/	OK	
	160867	JC21558-2	945601	PCBs	O	7	5		2↑	/	OK	volume remake nr
	160868	JC21560-1				8	10		/	-	OK	12:43pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1209

Print Analyst Name: Arelle Corazza

Analyst Signature:

Date: 5/13/16

Columns: Zebrons 35 ms + 30m x 25 mm x 25 um

Method 8270D/625

Initial Cal. Method M6P1209

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
5182418	DFTPP	25ppm
CM5732	Int. Std	400ppm
627661	DCM (F-Std)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMMO

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	625920	DFTPP			W	1					NG	Rept reinj 26
	25921	DFTPP			W	1					NG	Retune BBT 245 ppm
	25922	DFTPP			W	1					NG	Rept 4924 2 FST Reinstall
	25923	DFTPP			W	1					OK	912 AM
	25924	IC1209-2		BNA	W	2					OK	SV151827106H
	25925	-1				3					OK	-106I
	25926	-100				4					OK	-106A
	25927	-80				5					OK	-106B
	25928	IC1209-50				6					OK	-106G
	25929	IC1209-25				7					OK	-107F
	25930	10				8					OK	-106E
	25931	5				9					OK	-106G

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.9

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1210

Print Analyst Name: Arthur Cocozza

Analyst Signature:

Date: 5/13/16

Columns: ZB-5ms+ 30mx0.25mmx0.25um

Method: 8270D/625

Initial Cal. Method: M6P1209

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1517410	DFTPP	50ppm
CW5732	Int-Std	40000ppm
1129661	M(5-Str)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMG

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P25932	DFTPP				1					not using	2751 reinjected
	25933	DFTPP				1						2754-2758 reinjected
	25934	DFTPP				1						
	25935	DFTPP				1					not using	ion 30 out of range
	25936	DFTPP				1						
	25937	DFTPP				1					OK	225PM
	25938	ICL210-100		TCL42	W	2					OK	SV1161935 31A
	25939	-80				3					OK	B
	25940	ICL210-50				4					OK	C
	25941	ICL210-25				5					OK	D
	25942	ICL210-10				6					OK	E
	25943	-5				7					OK	G
	25944	-2				8					OK	H
	25945	-1				9					OK	I
	25946	ICV1210-50		ASN Surr		10					RR	OP16171292
	25947	50		Acids		11					RR	SV161935-21
	25948	50		Anilines		12					RR	-20

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21229

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1210

Print Analyst Name: Arielle Colozza

Analyst Signature:

Date: 5/13/16

Columns: 25m x 25m

Method 8270D/625

Initial Cal. Method MEP1209

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Copy	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Anne

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	25949	FW120-50		BN1		13					OK	5/16193517
	25950	50		BN2		14					OK	-10
	25951	50		Benzidine		15					OK	5/151827383
	25952	50		HQ 2nd AE 5/13/16		16					OK	-98c

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

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7.7.10

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1211

Print Analyst Name: Adelle Cocozza

Analyst Signature:

Date: 5/16/16

Columns: 35m x .18mm x .25um

Method: 8270D/625

Initial Cal. Method: MCP1209

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15782907	DFTPP	50ng/ul
CW5172	Int Std	4000ug/ml
162561	Neut Mix	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMLO

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P25953	DFTPP			W	1					OK	89 Ave
	25954	CV1209-50		Aeds	W	2					OK	SV15782787
	25955	-50		Anilines	W	3					OK	SV18193577
	25956	-50		Abn Scrn	W	4					OK	QP16171233 1008ug
	25957	-50		BNA	W	5					not analyzed	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07

Rev. Date: 1/19/16

7.7.11

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1212

Print Analyst Name: Arelle Cecan

Analyst Signature:

Date: 5/16/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 61829102	DFTPP	50ng/µl
CM5779	Int Std	4000ng/µl
16266	DCM (Esho)	—

Columns: ZB5MS+ 30mx25mmx.25µm

Method 8270D/625

Initial Cal. Method M6P1209

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMC

Date: 5/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P25958	DFTPP			W	1					OK	1100Am
	25960 ~~59~~	ICV1209-50		Acrolein	W	2					OK	QP1671292
	25960	-50		BNA	W	3					OK	1140Am SV61827-98

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.12

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1232

Print Analyst Name: Arelie Cocozza

Analyst Signature: [signature]

Date: 5/31/16

Columns: 25m x 30m x 5m x 20m

Method: 8270D/625m

Initial Cal. Method: M6P1209

Injection Volume: ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Semp 1 ug	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMM

Date: 6/1/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P26505	JC20992-6	94328	8270D/625	W	17					out of sequence	need to make clock tm
	26506	7				18					↓	↓
	26507	8				19					↓	↓
R	26508	JC20635-6	94265	8270D/625	W	20		+	/	/	OK	rerun after 6P26500
	26509	9				21		+	/	/	OK	↓
	26510	10				22					out of seq.	can't make clock time
	26511	11				23					↓	↓
	26512	JC20887-4	94260	8270D/625	S	24		+	/	/	OK	
	26513	JC20617-5	94190	8270D/625	S	25			/	/	OK	
	26514	2				26			/	/	OK	
	26515	JC20915-1	94260	8270D/625		27			/	/	OK/OK	CLO 815 pm
	26516	2				28					out of seq.	out of sequence VF = 5 not using 8:43pm out of clock time
	26517	JC20703-6	94274	1,4 DNB	W	29			/	/	OK	rerun after 6P26504
	26518	7				30			/	/	OK	
	26519	8				31			/	/	OK	
	26520	9				32			/	/	OK	
	26521	10				33			/	/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21229

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1232

Print Analyst Name: Angie Cocozza

Analyst Signature:

Date: 5/31/16

Columns: 20-35 MS 30m x 25mm x 25um

Method 8270D/625

Initial Cal. Method M6P1209

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
15127791	DFTPP	50ng/ul
16B3594	BNA	↓
-322	TCL42	↓
12315	int std	40ng/ul
62800	Surr Std	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMC

Date: 6/1/16

Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
6P26488	DFTPP			W	1					NG	Baseline rejected
26489	DFTPP			W	1					OK	838 AM
26490	CC1209-50		BNA	W	2					OK	54,63,157,437
26491	CC1210-50		TCL42	W	3					OK	Benzidine
26492	6P94328-MS	94328	A8270	W	4		+	/	/	OK	Scan Rgs w/ Bis 2(c) int, Bis 2(c) msrg to QX
26493	BS1				5			/	/	OK	
26494	JC2229-3		A625L+MNAP 2MNAP		6			/	/	OK	
26495	4				7			/	/	OK	
26496	JC21019-1A		BNA/TCL20		8		+	/	/	OK	
26497	JC2623-1		BFluAn BFluAne		9			/	/	OK	
26498	6P4328-MS		A8270		10			/	/	OK	
26499	MSD				11			/	/	OK	Run After 6P26521
26500	JC20492-1		BNA/TCL20		12		+	/	/	OK	↓
26501	JC20703-2	94212A	1400X	W	13			/	/	OK	Run After 6P26498
26502	3				14			/	/	OK	
26503	AC 5/31/16 1				15			/	/	OK	
26504	5				16			/	/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07

Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1236

Print Analyst Name: Sean Black

Analyst Signature: Sean T Black

Date: 6/2/16

Columns: ZB-5ms + 30m + 25mm + 25µ

Method 8270D/625

Initial Cal. Method M6P1209

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 1582791	DFTPP	50ppm
SV 161935-646	BNA	50ppm
SV 151827-1275	TCL42	50ppm
		"
CM-5722	Internal Std	4000ppm
163036	DCM (Chlor)	"

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	6P26622	DFTPP				1					OK	10:20
	26623	cc1209-50		BNA		2					OK	2µ 54,68,82,93,100 3ir
	26624	cc1210-50		TCL42		3					OK	
	26625	lcs 1ppm ver				4					OK	SV 161935-61B
	26626	OP94417-mb1	94417	AB8270+	S	5		X	/	/	OK	
	26627	-bs1	↓	↓	↓	6			/	/	OK	
	26628	OP94419-mb1	94419	AB8270+	S	7		X	/	/	OK	
	26629	-bs1		↓		8			/	/	OK	
	26630	JC21195-1		ABTCL20+		9		X	/	/	OK	
	26631	JC21230-2		~~BTCL20+~~ BCS++		10		X	/	/	OK	
	26632	OP94419-ms		AB8270		11			/	/	OK	
	26633	-msd	↓	↓	↓	12			/	/	OK	
	26634	JC21169-1	94417	BPAH	S	13			/	/	OK	
	26635	JC20413-1R		ABTCL20+		14		X	/	/	OK	~~TCL15~~ ~~TCL15~~ AE 6/3/16
	26636	JC20975-36A				15		X	/	/	OK	
	26637	JC21099-7				16			/		OK	CIO
	26638	-8	↓	↓	↓	17		X	/	/	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 E6P1236

Print Analyst Name: Sean Black

Analyst Signature: Sean J Black

Date: 6/2/16

Columns: 28-5ms + 30m x 25mm x 25

Method 8270D-625

Initial Cal. Method M6P1209

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 13	

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: AMM6 Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	6P26639	JZ21099-11	94417	AB7ZL20+	S	18		X	/	/	OK	
	26640	OP94417-ms	↓	AB8270	↓	19			/	/	OK	
	26641	-msd		↓		20			/	/	OK	
	26642	JZ21099-4		AB7ZL20+		21		X	/	/	OK	
	26643	-6		↓		22		X	/	/	OK	
	26644	-5				23		X	/	/	OK	
	26645	-2		↓		24		X	/	/	OK	
	26646	OP94417-ms		AB8270		25			/	/	OK	
	26647	-msd	↓	↓	↓	26			/	/	OK	
	26648	dcm clean up				27						
	↓ 26650	↓				↓						
	26651	JE20935-5	94274	ABSL + MNAP	S	28			/	/	OK	Ran ABSL 6P26644 10:17 AM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC21229

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E6P1239

Print Analyst Name: Arielle Cerezo

Analyst Signature:

Date: 6/6/16

Columns: Zb5 ms+ 30m x 25mm x 25um

Method: 8270D/625

Initial Cal. Method: M6P709

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1518791	DFTPP	50ppm
1619364A	BNA	25ppm
-325	TCL	1ppm
CMS732	IMS-SHO	100ppm
1130326	DCM (Fisher)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/7/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	E6P26694	DFTPP			W	1					OK	832 fgn
	700	CC1209-25			W	2					OK	2,4,4RL 31,54A GST
	701	CC1210-25			W	3					OK	
	702	BNA 50ppm			W	4					OK	SW61135676
	703	BP94462-MB1	94462	AB625	W	5					OK	
	704	BS1				6					OK	
	705	JC21230-1	94469	BNA625	S	7					OK	BNAAFS6P2730
	706	3				8					OK	
	707	5				9					OK	
	708	7				10					OK	
	709	4				11					OK	
	710	6				12					OK	
	711	JC21236-22		AB625		13					OK	
	712	JC21229-1		AB625 + MMD 12mmP		14					OK	
	713	2				15					OK	
	714	JC21236-24		AB625		16					OK	
	715	JC21229-1		AB625		17					OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E6P1239

Print Analyst Name: Ariel Corona

Analyst Signature:

Date: 8/6/16

Columns: 35 m x 30 m x 0.25 mm x 0.25 m

Method 8270D/625

Initial Cal. Method MCP1209

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/7/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	GP26716	JC21269-2	94419	A0312/625	S	18		/	/	/	OK	
	717	3				19		/	/	/	OK	
	718	4				20		/	/	/	OK	
	719	5				21		/	/	/	OK	RL 1:10
	720	DCM				100		/	/	/		Clean-Dirty Samples
	721	JC21251-1		BRAW		22		/	/	/	OK	
	722	JC21255-5A				23		/	/	/	OK	8270
	723	2A				24				not used		VE=5 out of clock time
	724	DCM				100						clean-Dirty Samples
	728	DCM				100						
	729	GP94462ms	94462	A0625	W	25		/	/	/	OK	for ALS GP26704
	730	MSD				26		/	/	/	OK	
	731	JC21303-1		A0312		27		/	/	/	OK	for ALS GP26728
	732	6				28		/	/	/	OK	
	733	JC21409-1		Anthy/NBNZ		29		/	/	/	OK	
	734	2				30		/	/	/	OK	
	735	3				31		/	/	/	OK	10 AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.15

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SGS ACCUTEST

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID E6P1239

Date: 6/6/16

Print Analyst Name: Aquilla Cocoran

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See p 2	

Columns: 2-35mg 30mx25mx

Method 8270D/1628

Initial Cal. Method MGP1209

Injection Volume:

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: AMMO

Date: 6/7/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	E6P26736	JC14478-11A	90281	LOD10G	S	32			61		NG	BS8 fails RX MDLs
	737	Dup				10						run After GP26729
	738	↓				↓						Clean

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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7.7.15

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LOGBOOK ID: 6-1728

ABN Aqueous Extraction Logbook

Date Started: 5/29/16 Time Started: 8:00 am
Date Finished: 5/29/16 Time Finished: 6:00pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM____
Continuous Liquid Liquid: SW846 3520C/CLP/other____

BATCH # MS 94328	RACK# B-14
Extracted by:	FA
Concentrated by:	FA
Vialed by:	FA
Relinquished by:	FA
Accepted by:	
Supervisor Review:	5/31/16

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) < 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		
	JC20992-1 MS		2	L-yellow	500	1	4	yellow	1		
	MSD		2	L-yellow	500	1	4	yellow	1		
	BS	125IM		DI H2O	1000	1	4	clear	1		
	JC20992-2 MS		2	yellow	500	1	4	yellow	1		
	MSD		2	yellow	500	1	4	yellow	1		
1	JC20803-1 rx	ABN	1	yellow	1000	1	4	clear	1		
2	JC20888-5A		3	clear	1000	1	4	clear	1		
3	JC21019-1A		2	yellow	1000	1	4	clear	1		
4	JC21023-1		2	L-yellow	1000	1	4	clear	1		
5	JC20992-1		1	yellow	1000	1	4	yellow	1		
6	-2		1	L-yellow	1000	1	4	L-yellow	1		
7	-3		1	L-yellow	1000	1	4	Tan	1		
8	-4		2	yellow	1000	1	4	yellow	1		
9	-5		1	clear	1000	1	4	clear	1		
10	-6		1	L-yellow	960	1	4	yellow	1		
11	-7		2	L-yellow	1000	1	4	yellow	1		
12	-9		2	clear	1000	1	4	yellow	1		
13	JC20999-9		2	clear	1000	1	4	clear	1		
14	JC20975-1A		2	clear	980	1	4	clear	1		
15	JC21229-3		2	yellow	1000	1	4	clear	1		
16	-4		1	clear	1000	1	4	clear	1		
17											
18											
19											
20											

20day TAT

1d 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)	B/7	75.4/75.6	0.6, 0.4	76/76	N/A
Waterbath Chiller (GPM)	F-2	0	—	—	5/C
NEVAP (32-38°C; LPM)	2	36		36	5/C

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP16171221	50	1

WITNESS SIGN: SZ SPIKE SIGN: FA

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid			Acid: 1
Acid (for SIM)	SV161935-51	50	A(SIM): 0.1
Base #1	SV161935-56	50	1
Base #2	SV161935-43	50	1
Anilines	SV161935-39	50	1
BSIM	OP16171286	1ppm	1

WITNESS SIGN: SZ SPIKE SIGN: FA

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	480

REAGENT	LOT #	BRAND
NaOH	153583	Fisher
H2SO4	2601916	Ricca
Sodium Sulfate	138474	Fisher
Glass Wool	022055 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: 6-1728

ABN Aqueous Extraction Logbook

Date Started: 5/29/16 Time Started: 8:00 am
Date Finished: 5/29/16 Time Finished: 6:00pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM____
Continuous Liquid Liquid: SW846 3520C/CLP/other____

BATCH # MS 94328	RACK# B-14
Extracted by:	FA
Concentrated by:	FA
Vialed by:	FA
Relinquished by:	FA
Accepted by:	
Supervisor Review:	5/31/16

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) < 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		
	JC20992-1 MS		2	L-yellow	500	1	4	yellow	1		
	↳ MSD		2	L-yellow	500	1	4	yellow	1		
	BS 125IM			DI H2O	1000	1	4	clear	1		
	JC20992-2 MS		2	yellow	500	1	4	yellow	1		
	↳ MSD		2	yellow	500	1	4	yellow	1		
1	JC20803-1 rx	ABN	1	yellow	1000	1	4	clear	1		
2	JC20888-5A		3	clear	1000	1	4	clear	1		
3	JC21019-1A		2	yellow	1000	1	4	clear	1		
4	JC21023-1		2	L-yellow	1000	1	4	clear	1		
5	JC20992-1		1	yellow	1000	1	4	yellow	1		
6	-2		1	L-yellow	1000	1	4	L-yellow	1		
7	-3		1	L-yellow	1000	1	4	Tan	1		
8	-4		2	yellow	1000	1	4	yellow	1		
9	-5		1	clear	1000	1	4	clear	1		
10	-6		1	L-yellow	960	1	4	yellow	1		
11	-7		2	L-yellow	1000	1	4	yellow	1		
12	-9		2	clear	1000	1	4	yellow	1		
13	JC20999-9		2	clear	1000	1	4	clear	1		
14	JC20975-1A		2	clear	980	1	4	clear	1		
15	JC21229-3		2	yellow	1000	1	4	clear	1		
16	-4		1	clear	1000	1	4	clear	1		
17											
18											
19											
20											

20day TAT

1d TAT

Comments: Okay to split ms/msd sim ms/msd not enough bottles.

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)					
Buchi Chiller					
Waterbath (70-80°C)	B/7	75.4/75.6	0.6, 0.4	76/76	N/A
Waterbath Chiller (GPM)	F-2	0	—	—	5/C
NEVAP (32-38°C; LPM)	2	36		36	5/C

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	OP16171221	50	1

WITNESS SIGN: SZ SPIKE SIGN: FA

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid			Acid: 1
Acid (for SIM)	SV161935-51	50	A(SIM): 0.1
Base #1	SV161935-56	50	1
Base #2	SV161935-43	50	1
Anilines	SV161935-39	50	1
BSIM	OP16171286	1ppm	1

WITNESS SIGN: SZ SPIKE SIGN: FA

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162661	Fisher	480

REAGENT	LOT #	BRAND
NaOH	153583	Fisher
H2SO4	2601916	Ricca
Sodium Sulfate	138457	Fisher
Glass Wool	022055 2	Lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

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LOGBOOK ID: 6-17 17

ABN Extraction Log - Solids

Date started: 6/2/16 Time started: 8:30 am
Date finished: 6/2/16 Time finished: 3:30 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MS 94419	RACK# D50
Weighed/Extracted by:	FM, YS
Concentrated by:	SA
Vialed by:	SD AQ
Relinquished by:	
Accepted by:	
Supervisor Review:	DH 6/2/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Microwave ID Sonicator ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
	MB1	ABN		Sand	30.0			S	Clear	1		
	BS1			Sand	30.0		/	S	Yellow	1		
	JC21230-2 MS		3	Soil	30.1		\	S	Yellow	1		
	↓ MSD		3	Soil	31.7		/	S	Yellow	1		
	BS 12 SIM			Sand	30.0			S	Yellow	1		
	JC21229-1 MS	A	1	Soil	30.2		/	S	Yellow	1		
	↓ MSD	A	1	Soil	30.2		\	S	Yellow	1		
1	JC21195-1	ABN	1	Soil	1.6		/	S	Brown	1		⊙
2	JC21229-1		1	Soil	30.4		\	S	Yellow	1		
3	-2		1	Soil	15.1		\	S	Yellow	1		⊥
4	JC21230-1		1	Soil	31.2		\	S	Yellow	1		
5	-2		3	Soil	30.5		\	S	Yellow	1		
6	-3		1	Soil	30.3		\	S	Yellow	1		
7	-4		1	Soil	30.0		\	S	Brown	1		
8	-5		1	Soil	30.2		\	S	Yellow	1		
9	-6		1	Soil	30.7		\	S	Brown	1		
10	-7		1	Soil	30.3		\	S	Brown	1		
11	JC21236-23		1	Soil	31.5		\	S	Yellow	1		
12	~~23~~ -24		1	Soil	30.6		\	S	Brown	1		
13	JC21251-1		1	Soil	30.2		\	S	Brown	1		
14	JC21255-2A		1	Soil	30.0		\	S	Black	.5		Δ
15	-5A		2	Soil	30.0		\	S	Brown	1		-
16	JC21269-1		1	Soil	16.7		\	S	Brown	1		*
17	-2		1	Soil	15.6		\	S	Brown	1		*
18	-3		1	Soil	16.8		\	S	Brown	1		*
19	-4		1	Soil	15.7		\	S	Brown	1		
20	-5		1	Soil	15.7		\	S	Brown	1		

Comments: ⊙ insufficient sample in bottle
* Reduced initial volume due to strong Petroleum Smell
Δ: Final Volume extracted Vialed at .5 mL due to sample poor matrix.

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10, 9	76; 76	0.6; 1.3	75.4; 77	N/A
Waterbath Chiller (GPM)	M2, M3	9; 6	—	—	2.1, 2.0
NEVAP (32-38°C, LPM)	2	36	0.1	36	10
Balance		N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN Op	161712128	SD	1

WITNESS SIGN: YS SPIKE SIGN: FM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid SV	161935571	SD	Acid: 1
Acid (for SIM) SV			A(SIM): 0.1
Base #1 SV	161935576	SD	1
Base #2 SV	161935510	SD	1
Aniline SV	161935339	SD	1
BSIM Op	161712120	1 PPM	1

WITNESS SIGN: YS SPIKE SIGN: FM

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	~~162861~~ 158571	Fisher	30 mL
METH CHLOR	162661	Fisher	Var.

REAGENT	LOT #	BRAND
HYDROMATRIX	6227263	Agilent
SODIUM SULFATE	157117	Fisher
FILTER PAPER	969 0391	Fisher

MATRIX	LOT #	BRAND
SAND	GGA160113114	Fisher

JC21195-1 Could not find Prep time. Not scheduled. Record time post worked etc.

Spiking:

Weights/Volumes:

Required MS/MSD: JC21230-2 (MS/MSD)

Final Volume:

Other: Rush due 6/2

past wd due 6/2

CL 6/2/16

SGS ACCUTEST INC.
Form: OP019A-06
Rev Date: 11/20/15

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LOGBOOK ID: 6-17 17

ABN Extraction Log - Solids

Date started: 6/2/16 Time started: 8:30 am
Date finished: 6/2/16 Time finished: 3:30 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dil. SW3580A ____ Soxhlet SW3540C ____

BATCH # MS 94419	RACK# D50
Weighed/Extracted by:	FM, YS
Concentrated by:	SA
Vialed by:	SD AQ
Relinquished by:	
Accepted by:	
Supervisor Review:	DH 6/2/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	10, 9	76; 76	0.6; 1.3	75.4; 77.2	N/A
Waterbath Chiller (GPM)	M2, M3	9.6	—	—	2.1, 2.0
NEVAP (32-38°C, LPM)	2	36	0.1	36	10
Balance		N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN Op	161712128	SD	1

WITNESS SIGN: YS SPIKE SIGN: FM

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid SV	161935571	SD	Acid: 1
Acid (for SIM) SV			A(SIM): 0.1
Base #1 SV	161935576	SD	1
Base #2 SV	161935510	SD	1
Aniline SV	161935339	SD	1
BSIM Op	161712120	1 PPM	1

WITNESS SIGN: YS SPIKE SIGN: FM

SOLVENT	LOT #	BRAND	AMT (mL)
1:1 METH CHLOR/ ACETONE	162861 / 158571	Fisher	30 ml
METH CHLOR	162661	Fisher	Var.

REAGENT	LOT #	BRAND
HYDROMATRIX	6227263	Agilent
SODIUM SULFATE	157117	Fisher
FILTER PAPER	969 0391	Fisher

MATRIX	LOT #	BRAND
SAND	66A160113114	Fisher

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Microwave ID Sonicator ID	Final Extract Color	Final Extract Vol(mL)	GPC Cleanup	Comments
	MB1	ABN		Sand	30.0			S	Clear	1		
	BS1			Sand	30.0		/	S	Yellow	1		
	JC21230-2 MS		3	Soil	30.1		\	S	Yellow	1		
	↓ MSD		3	Soil	31.7		/	S	Yellow	1		
	BS 12 SIM			Sand	30.0			S	Yellow	1		
	JC21229-1 MS	A	1	Soil	30.2		/	S	Yellow	1		
	↓ MSD	A	1	Soil	30.2		\	S	Yellow	1		
1	JC21195-1	ABN	1	Soil	1.6		/	S	Brown	1		⊙
2	JC21229-1		1	Soil	30.4		\	S	Yellow	1		
3	-2		1	Soil	15.1		\	S	Yellow	1		*
4	JC21230-1		1	Soil	31.2		\	S	Yellow	1		
5	-2		3	Soil	30.5		\	S	Yellow	1		
6	-3		1	Soil	30.3		\	S	Yellow	1		
7	-4		1	Soil	30.0		\	S	Brown	1		
8	-5		1	Soil	30.2		\	S	Yellow	1		
9	-6		1	Soil	30.7		\	S	Brown	1		
10	-7		1	Soil	30.3		\	S	Brown	1		
11	JC21236-23		1	Soil	31.5		\	S	Yellow	1		
12	~~JC~~ -24		1	Soil	30.6		\	S	Brown	1		
13	JC21251-1		1	Soil	30.2		\	S	Brown	1		
14	JC21255-2A		1	Soil	30.0		\	S	Black	.5		Δ
15	-5A		2	Soil	30.0		\	S	Brown	1		-
16	JC21269-1		1	Soil	16.7		\	S	Brown	1		*
17	-2		1	Soil	15.6		\	S	Brown	1		*
18	-3		1	Soil	16.8		\	S	Brown	1		*
19	-4		1	Soil	15.7		\	S	Brown	1		
20	-5		1	Soil	15.7		\	S	Brown	1		

Comments: ⊙ insufficient sample in bottle
* Reduced initial volume due to strong Petroleum Smell
Δ: Final Volume extracted Vialed at .5 mL due to sample poor matrix.

JC21195-1 Could not find Prep time. Need schedule reconsideration post-workdate

past wd due 6/2

Spiking:

Weights/Volumes:

Required MS/MSD: JC21230-2 (MS/MSD)

Final Volume:

Other: Rush due 6/2

CI 6/2/16

SGS ACCUTEST INC.
Form: OP019A-06
Rev Date: 11/20/15

45

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5307-MB1	GH105306.D	1	06/01/16	XPL	n/a	n/a	GGH5307

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21229-3, JC21229-4

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

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	102%	56-145%
111-27-3	Hexanol	105%	56-145%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5308-MB1	GH105330.D	1	06/02/16	XPL	n/a	n/a	GGH5308

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21229-1, JC21229-2

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	69	ug/kg	
78-83-1	Isobutyl Alcohol	ND	100	59	ug/kg	
67-63-0	Isopropyl Alcohol	ND	100	57	ug/kg	
71-23-8	n-Propyl Alcohol	ND	100	40	ug/kg	
71-36-3	n-Butyl Alcohol	ND	100	54	ug/kg	
78-92-2	sec-Butyl Alcohol	ND	100	53	ug/kg	
67-56-1	Methanol	ND	200	48	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	78%	52-141%
111-27-3	Hexanol	80%	52-141%

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5307-BS	GH105307.D	1	06/01/16	XPL	n/a	n/a	GGH5307

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21229-3, JC21229-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
64-17-5	Ethanol	5000	5490	110	74-123
78-83-1	Isobutyl Alcohol	5000	5680	114	70-124
67-63-0	Isopropyl Alcohol	5000	5380	108	76-121
71-23-8	n-Propyl Alcohol	5000	5530	111	73-122
71-36-3	n-Butyl Alcohol	5000	5090	102	67-116
78-92-2	sec-Butyl Alcohol	5000	5620	112	74-118
67-56-1	Methanol	5000	4570	91	67-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	97%	56-145%
111-27-3	Hexanol	95%	56-145%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH5308-BS	GH105331.D	1	06/02/16	XPL	n/a	n/a	GGH5308

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21229-1, JC21229-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
64-17-5	Ethanol	5000	5720	114	75-124
78-83-1	Isobutyl Alcohol	5000	5890	118	67-126
67-63-0	Isopropyl Alcohol	5000	5580	112	76-122
71-23-8	n-Propyl Alcohol	5000	5990	120	72-122
71-36-3	n-Butyl Alcohol	5000	5140	103	62-120
78-92-2	sec-Butyl Alcohol	5000	5790	116	73-120
67-56-1	Methanol	5000	4710	94	66-121

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	94%	52-141%
111-27-3	Hexanol	97%	52-141%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC21060-1MS	GH105311.D	1	06/01/16	XPL	n/a	n/a	GGH5307
JC21060-1MSD	GH105312.D	1	06/01/16	XPL	n/a	n/a	GGH5307
JC21060-1	GH105310.D	1	06/01/16	XPL	n/a	n/a	GGH5307

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21229-3, JC21229-4

CAS No.	Compound	JC21060-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		5000	5350	107	5000	5590	112	4	58-145/27
78-83-1	Isobutyl Alcohol	ND		5000	5610	112	5000	5820	116	4	69-131/25
67-63-0	Isopropyl Alcohol	ND		5000	5360	107	5000	5820	116	8	70-133/28
71-23-8	n-Propyl Alcohol	ND		5000	5610	112	5000	5210	104	7	66-137/29
71-36-3	n-Butyl Alcohol	ND		5000	4820	96	5000	5120	102	6	63-131/25
78-92-2	sec-Butyl Alcohol	ND		5000	5780	116	5000	5520	110	5	64-136/25
67-56-1	Methanol	ND		5000	4640	93	5000	4300	86	8	48-148/34

CAS No.	Surrogate Recoveries	MS	MSD	JC21060-1	Limits
111-27-3	Hexanol	76%	78%	69%	56-145%
111-27-3	Hexanol	75%	80%	72%	56-145%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC21229-2MS	GH105333.D	1	06/02/16	XPL	n/a	n/a	GGH5308
JC21229-2MSD	GH105334.D	1	06/02/16	XPL	n/a	n/a	GGH5308
JC21229-2	GH105332.D	1	06/02/16	XPL	n/a	n/a	GGH5308

The QC reported here applies to the following samples: **Method:** SW846-8015C (DAI)

JC21229-1, JC21229-2

CAS No.	Compound	JC21229-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	ND		5800	6330	109	5800	6320	109	0	64-132/22
78-83-1	Isobutyl Alcohol	ND		5800	6310	109	5800	6260	108	1	59-141/26
67-63-0	Isopropyl Alcohol	ND		5800	6170	106	5800	6160	106	0	69-131/23
71-23-8	n-Propyl Alcohol	ND		5800	6500	112	5800	6410	111	1	66-135/31
71-36-3	n-Butyl Alcohol	ND		5800	5520	95	5800	5690	98	3	50-140/30
78-92-2	sec-Butyl Alcohol	ND		5800	6300	109	5800	6540	113	4	67-131/30
67-56-1	Methanol	ND		5800	5740	99	5800	5940	102	3	58-130/29

CAS No.	Surrogate Recoveries	MS	MSD	JC21229-2	Limits
111-27-3	Hexanol	83%	82%	87%	52-141%
111-27-3	Hexanol	90%	82%	97%	52-141%

* = Outside of Control Limits.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5307-CC5288	**Injection Date:**	06/01/16
Lab File ID:	GH105305.D	**Injection Time:**	07:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5307-BS	**Injection Date:**	06/01/16
Lab File ID:	GH105307.D	**Injection Time:**	08:33
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1 [a]	1.45	1.46	5490		ug/l	2.2
Ethanol	2	1.14	1.14	5610		ug/l	
Isobutyl Alcohol	1	3.32	3.32	5840		ug/l	2.8
Isobutyl Alcohol	2 [a]	2.93	2.92	5680		ug/l	
Isopropyl Alcohol	1 [a]	1.75	1.76	5380		ug/l	1.7
Isopropyl Alcohol	2	1.40	1.39	5470		ug/l	
n-Propyl Alcohol	1	2.51	2.52	5620		ug/l	1.6
n-Propyl Alcohol	2 [a]	1.98	1.98	5530		ug/l	
n-Butyl Alcohol	1	3.79	3.77	5440		ug/l	6.6
n-Butyl Alcohol	2 [a]	3.40	3.40	5090		ug/l	
sec-Butyl Alcohol	1	2.94	2.95	6010		ug/l	6.7
sec-Butyl Alcohol	2 [a]	2.55	2.55	5620		ug/l	
Methanol	1	1.12	1.13	4610		ug/l	0.9
Methanol	2 [a]	0.89	0.88	4570		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105329.D	**Injection Time:**	08:35
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	GGH5308-BS	**Injection Date:**	06/02/16
Lab File ID:	GH105331.D	**Injection Time:**	09:11
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1 [a]	1.46	1.46	5720		ug/kg	1.9
Ethanol	2	1.14	1.16	5830		ug/kg	
Isobutyl Alcohol	1	3.32	3.32	6220		ug/kg	5.5
Isobutyl Alcohol	2 [a]	2.93	2.93	5890		ug/kg	
Isopropyl Alcohol	1 [a]	1.76	1.76	5580		ug/kg	3.2
Isopropyl Alcohol	2	1.40	1.41	5760		ug/kg	
n-Propyl Alcohol	1 [a]	2.52	2.53	5990		ug/kg	0.2
n-Propyl Alcohol	2	2.00	2.00	6000		ug/kg	
n-Butyl Alcohol	1	3.77	3.77	5820		ug/kg	12.4
n-Butyl Alcohol	2 [a]	3.40	3.41	5140		ug/kg	
sec-Butyl Alcohol	1	2.95	2.96	5880		ug/kg	1.5
sec-Butyl Alcohol	2 [a]	2.55	2.56	5790		ug/kg	
Methanol	1 [a]	1.12	1.13	4710		ug/kg	14.6
Methanol	2	0.89	0.93	5450		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5307-CC5288	**Injection Date:**	06/01/16
Lab File ID:	GH105305.D	**Injection Time:**	07:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21060-1MS	**Injection Date:**	06/01/16
Lab File ID:	GH105311.D	**Injection Time:**	09:53
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.44	1.46	5660		ug/l	5.6
Ethanol	2 [a]	1.14	1.14	5350		ug/l	
Isobutyl Alcohol	1	3.30	3.32	5780		ug/l	3.0
Isobutyl Alcohol	2 [a]	2.92	2.92	5610		ug/l	
Isopropyl Alcohol	1	1.74	1.76	5580		ug/l	4.0
Isopropyl Alcohol	2 [a]	1.39	1.39	5360		ug/l	
n-Propyl Alcohol	1	2.50	2.52	5780		ug/l	3.0
n-Propyl Alcohol	2 [a]	1.98	1.98	5610		ug/l	
n-Butyl Alcohol	1	3.75	3.77	5410		ug/l	11.5
n-Butyl Alcohol	2 [a]	3.40	3.40	4820		ug/l	
sec-Butyl Alcohol	1	2.93	2.95	5530		ug/l	4.4
sec-Butyl Alcohol	2 [a]	2.55	2.55	5780		ug/l	
Methanol	1	1.11	1.13	5090		ug/l	9.2
Methanol	2 [a]	0.89	0.88	4640		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105329.D	**Injection Time:**	08:35
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21229-2MS	**Injection Date:**	06/02/16
Lab File ID:	GH105333.D	**Injection Time:**	10:04
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.46	6560		ug/kg	3.6
Ethanol	2 [a]	1.14	1.16	6330		ug/kg	
Isobutyl Alcohol	1	3.31	3.32	6730		ug/kg	6.4
Isobutyl Alcohol	2 [a]	2.93	2.93	6310		ug/kg	
Isopropyl Alcohol	1	1.75	1.76	6440		ug/kg	4.3
Isopropyl Alcohol	2 [a]	1.40	1.41	6170		ug/kg	
n-Propyl Alcohol	1	2.52	2.53	6340		ug/kg	2.5
n-Propyl Alcohol	2 [a]	1.98	2.00	6500		ug/kg	
n-Butyl Alcohol	1	3.76	3.77	6250		ug/kg	12.4
n-Butyl Alcohol	2 [a]	3.39	3.41	5520		ug/kg	
sec-Butyl Alcohol	1	2.95	2.96	6440		ug/kg	2.2
sec-Butyl Alcohol	2 [a]	2.55	2.56	6300		ug/kg	
Methanol	1	1.12	1.13	5840		ug/kg	1.7
Methanol	2 [a]	0.89	0.93	5740		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5307-CC5288	**Injection Date:**	06/01/16
Lab File ID:	GH105305.D	**Injection Time:**	07:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21060-1MSD	**Injection Date:**	06/01/16
Lab File ID:	GH105312.D	**Injection Time:**	10:15
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.46	5240		ug/l	6.5
Ethanol	2 [a]	1.14	1.14	5590		ug/l	
Isobutyl Alcohol	1	3.30	3.32	5580		ug/l	4.2
Isobutyl Alcohol	2 [a]	2.93	2.92	5820		ug/l	
Isopropyl Alcohol	1	1.74	1.76	5200		ug/l	11.3
Isopropyl Alcohol	2 [a]	1.40	1.39	5820		ug/l	
n-Propyl Alcohol	1	2.50	2.52	6450		ug/l	21.3
n-Propyl Alcohol	2 [a]	1.99	1.98	5210		ug/l	
n-Butyl Alcohol	1	3.75	3.77	5220		ug/l	1.9
n-Butyl Alcohol	2 [a]	3.40	3.40	5120		ug/l	
sec-Butyl Alcohol	1	2.93	2.95	5500		ug/l	0.4
sec-Butyl Alcohol	2 [a]	2.56	2.55	5520		ug/l	
Methanol	1	1.12	1.13	4650		ug/l	7.8
Methanol	2 [a]	0.89	0.88	4300		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105329.D	**Injection Time:**	08:35
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

Sample ID:	JC21229-2MSD	**Injection Date:**	06/02/16
Lab File ID:	GH105334.D	**Injection Time:**	10:26
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Ethanol	1	1.45	1.46	6160		ug/kg	2.6
Ethanol	2 [a]	1.14	1.16	6320		ug/kg	
Isobutyl Alcohol	1	3.31	3.32	6620		ug/kg	5.6
Isobutyl Alcohol	2 [a]	2.93	2.93	6260		ug/kg	
Isopropyl Alcohol	1	1.75	1.76	6350		ug/kg	3.0
Isopropyl Alcohol	2 [a]	1.40	1.41	6160		ug/kg	
n-Propyl Alcohol	1	2.51	2.53	6530		ug/kg	1.9
n-Propyl Alcohol	2 [a]	1.98	2.00	6410		ug/kg	
n-Butyl Alcohol	1	3.76	3.77	6230		ug/kg	9.1
n-Butyl Alcohol	2 [a]	3.40	3.41	5690		ug/kg	
sec-Butyl Alcohol	1	2.95	2.96	6310		ug/kg	3.6
sec-Butyl Alcohol	2 [a]	2.56	2.56	6540		ug/kg	
Methanol	1	1.12	1.13	5320		ug/kg	11.0
Methanol	2 [a]	0.89	0.93	5940		ug/kg	

(a) QC results reported from this column.

Volatile Surrogate Recovery Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015C (DAI) **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JC21229-3	GH105308.D	69	71
JC21229-4	GH105309.D	76	76
GGH5307-BS	GH105307.D	97	95
GGH5307-MB1	GH105306.D	102	105
JC21060-1MS	GH105311.D	76	75
JC21060-1MSD	GH105312.D	78	80

Surrogate Compounds	Recovery Limits
S1 = Hexanol	56-145%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

Volatile Surrogate Recovery Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015C (DAI) **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JC21229-1	GH105335.D	88	85
JC21229-2	GH105332.D	87	97
GGH5308-BS	GH105331.D	94	97
GGH5308-MB1	GH105330.D	78	80
JC21229-2MS	GH105333.D	83	90
JC21229-2MSD	GH105334.D	82	82

Surrogate Compounds	Recovery Limits
S1 = Hexanol	52-141%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5307-CC5288	**Injection Date:**	06/01/16
Lab File ID:	GH105305.D	**Injection Time:**	07:49
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.47	5.57

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5307-MB1	GH105306.D	06/01/16	08:04	5.47	5.57
GGH5307-BS	GH105307.D	06/01/16	08:33	5.47	5.57
JC21229-3	GH105308.D	06/01/16	09:09	5.47	5.56
JC21229-4	GH105309.D	06/01/16	09:22	5.46	5.56
JC21060-1	GH105310.D	06/01/16	09:43	5.46	5.56
JC21060-1MS	GH105311.D	06/01/16	09:53	5.46	5.56
JC21060-1MSD	GH105312.D	06/01/16	10:15	5.45	5.56

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH5308-CC5288	**Injection Date:**	06/02/16
Lab File ID:	GH105329.D	**Injection Time:**	08:35
Instrument ID:	GCGH	**Method:**	SW846-8015C (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.48	5.58

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH5308-MB1	GH105330.D	06/02/16	08:49	5.47	5.58
GGH5308-BS	GH105331.D	06/02/16	09:11	5.47	5.57
JC21229-2	GH105332.D	06/02/16	09:47	5.47	5.57
JC21229-2MS	GH105333.D	06/02/16	10:04	5.47	5.57
JC21229-2MSD	GH105334.D	06/02/16	10:26	5.47	5.57
JC21229-1	GH105335.D	06/02/16	10:42	5.45	5.57
ZZZZZZ	GH105336.D	06/02/16	10:51	5.45	5.57
ZZZZZZ	GH105337.D	06/02/16	11:13	5.45	5.57

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH5288-ICC5288
Lab FileID: GH105020.D

Response Factor Report GCGH

Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Wed May 18 08:55:49 2016
Response via : Initial Calibration

Calibration Files
0.5 =GH105018.D 1 =GH105019.D 5 =GH105020.D 10 =GH105021.D
50 =GH105022.D 100 =GH105023.D 0.1 =GH105017.D =

Compound	0.5	1	5	10	50	100	0.1	Avg	%RSD
1) Methanol	1.474	1.617	1.549	1.574	1.441	1.381	1.784	1.546 E1	8.59
2) Ethanol	1.481	1.886	1.989	2.027	1.870	1.914	2.099	1.895 E1	10.57
3) Tert-Butyl A	2.644	2.895	2.860	2.948	2.724	2.958	2.806	2.833 E1	4.12
4) 1-Propanol	2.265	2.525	2.568	2.579	2.395	2.511	2.187	2.433 E1	6.38
5) 2-Propanol	1.765	2.050	2.101	2.139	1.981	2.028	1.888	1.993 E1	6.50
6) Isobutanol	2.804	2.950	2.948	2.988	2.739	2.927	2.784	2.877 E1	3.42
7) 1-Butanol	2.898	2.941	2.862	2.890	2.632	2.755	3.014	2.856 E1	4.42
8) 2-Butanol	2.368	2.558	2.588	2.626	2.424	2.540	2.840	2.563 E1	5.95
9) Hexanol	6.661	6.854	6.904	7.104	6.883		6.152	6.760 E1	4.87

Signal #2

1) Methanol	3.395	2.969	3.474	3.464	3.153	3.141	2.982	3.225 E1	6.76
2) Ethanol	4.063	3.635	4.347	4.327	3.993	4.176	3.361	3.986 E1	9.18
3) Tert-Butyl A	6.528	6.375	6.640	6.640	6.134	6.562	5.629	6.358 E1	5.79
4) 1-Propanol	5.216	5.281	5.494	5.499	5.155	5.488	3.458	5.084 E1	14.38
5) 2-Propanol	4.929	4.342	4.733	4.727	4.363	4.597	4.004	4.528 E1	6.88
6) Isobutanol	6.364	5.960	6.233	6.327	5.766	6.160	6.044	6.122 E1	3.48
7) 1-Butanol	7.458	7.365	6.389	6.043	5.678	5.940	7.445	6.617 E1	11.83
8) 2-Butanol	5.511	5.860	5.620	5.660	5.265	5.573	4.510	5.428 E1	8.15
9) Hexanol	1.546	1.555	1.589	1.628	1.578		1.424	1.553 E2	4.50

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

MGH5288.M Wed May 18 09:03:27 2016 GCGH

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH5288-ICV5288
Lab FileID: GH105024.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH        Vial: 9
Acq On    : 17 May 2016   6:02 pm                   Operator: XULIU
Sample    : ICV5288-5000                            Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH        Vial: 9
Acq On    : 17 May 2016   6:24 pm                   Operator: XULIU
Sample    : ICV5288-5000                            Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	13.025	15.7	84	0.00	1.09- 1.15
2	Ethanol	18.950	20.029	-5.7	101	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	29.971	-5.8	105	0.00	1.96- 2.08
4	1-Propanol	24.326	25.536	-5.0	99	0.00	2.46- 2.58
5	2-Propanol	19.931	21.074	-5.7	100	0.00	1.71- 1.80
6	Isobutanol	28.771	30.222	-5.0	103	0.00	3.27- 3.36
7	1-Butanol	28.561	29.118	-2.0	102	0.00	3.73- 3.79
8	2-Butanol	25.634	26.603	-3.8	103	0.00	2.89- 3.01
9 S	Hexanol	67.597	69.942	-3.5	101	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	34.546	-7.1	99	0.00	0.87- 0.93
2	Ethanol	39.861	45.328	-13.7	104	0.00	1.13- 1.19
3	Tert-Butyl Alcohol	63.583	66.584	-4.7	100	0.00	1.63- 1.69
4	1-Propanol	50.842	57.021	-12.2	104	0.01	1.99- 2.06
5	2-Propanol	45.279	47.646	-5.2	101	0.00	1.38- 1.44
6	Isobutanol	61.221	66.607	-8.8	107	0.00	2.91- 2.97
7	1-Butanol	66.170	65.238	1.4	102	0.01	3.39- 3.45
8	2-Butanol	54.284	60.860	-12.1	108	0.00	2.54- 2.60
9 S	Hexanol	155.348	158.160	-1.8	100	0.00	5.47- 5.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Wed May 18 09:09:59 2016 GCGH

Continuing Calibration Summary

Job Number: JC21229 **Sample:** GGH5307-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105305.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105305.D\FID1A.CH        Vial: 92
Acq On    :  1 Jun 2016   7:49 am                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105305.D\FID2B.CH        Vial: 92
Acq On    :  1 Jun 2016   8:04 am                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	15.072	2.5	97	0.00	1.10- 1.16
2	Ethanol	18.950	20.166	-6.4	101	0.00	1.42- 1.51
3	Tert-Butyl Alcohol	28.335	31.235	-10.2	109	0.00	1.97- 2.09
4	1-Propanol	24.326	28.774	-18.3	112	0.00	2.46- 2.58
5	2-Propanol	19.931	21.095	-5.8	100	0.00	1.72- 1.81
6	Isobutanol	28.771	34.182	-18.8	116	0.00	3.27- 3.37
7	1-Butanol	28.561	31.463	-10.2	110	0.00	3.74- 3.80
8	2-Butanol	25.634	28.840	-12.5	111	0.00	2.89- 3.01
9 S	Hexanol	67.597	62.027	8.2	90	0.00	5.54- 5.60
*****	Signal #2 *****						
1	Methanol	32.254	31.975	0.9	92	0.00	0.85- 0.91
2	Ethanol	39.861	43.552	-9.3	100	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	73.108	-15.0	110	0.00	1.60- 1.66
4	1-Propanol	50.842	57.649	-13.4	105	0.00	1.95- 2.02
5	2-Propanol	45.279	49.360	-9.0	104	0.00	1.36- 1.42
6	Isobutanol	61.221	68.409	-11.7	110	0.00	2.89- 2.95
7	1-Butanol	66.170	65.131	1.6	102	0.00	3.37- 3.43
8	2-Butanol	54.284	61.083	-12.5	109	0.00	2.52- 2.58
9 S	Hexanol	155.348	142.924	8.0	90	0.00	5.44- 5.50

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Wed Jun 01 09:46:40 2016 GCGH

8.7.3

8

Continuing Calibration Summary

Job Number: JC21229 **Sample:** GGH5307-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105313.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105313.D\FID1A.CH        Vial: 95
Acq On    :  1 Jun 2016  10:44 am                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105313.D\FID2B.CH        Vial: 95
Acq On    :  1 Jun 2016  11:03 am                   Operator: XULIU
Sample    : CC5288-10000                            Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	15.095	2.4	96	0.00	1.08- 1.14
2	Ethanol	18.950	20.886	-10.2	103	0.00	1.40- 1.49
3	Tert-Butyl Alcohol	28.335	30.186	-6.5	102	0.00	1.94- 2.06
4	1-Propanol	24.326	30.486	-25.3#	118	0.00	2.44- 2.56
5	2-Propanol	19.931	21.309	-6.9	100	0.00	1.70- 1.79
6	Isobutanol	28.771	34.082	-18.5	114	0.00	3.26- 3.35
7	1-Butanol	28.561	30.449	-6.6	105	0.00	3.72- 3.78
8	2-Butanol	25.634	27.636	-7.8	105	0.00	2.87- 2.99
9 S	Hexanol	67.597	71.582	-5.9	101	0.00	5.53- 5.59
*****	Signal #2 *****						
1	Methanol	32.254	38.166	-18.3	110	0.00	0.86- 0.92
2	Ethanol	39.861	46.920	-17.7	108	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	69.902	-9.9	105	0.00	1.60- 1.66
4	1-Propanol	50.842	55.529	-9.2	101	0.00	1.95- 2.02
5	2-Propanol	45.279	47.644	-5.2	101	0.00	1.37- 1.43
6	Isobutanol	61.221	66.090	-8.0	104	0.00	2.90- 2.96
7	1-Butanol	66.170	62.658	5.3	104	0.00	3.37- 3.43
8	2-Butanol	54.284	58.564	-7.9	103	0.00	2.52- 2.58
9 S	Hexanol	155.348	156.532	-0.8	96	0.00	5.42- 5.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Wed Jun 01 11:13:05 2016 GCGH

Continuing Calibration Summary

Job Number: JC21229 **Sample:** GGH5308-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105329.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105329.D\FID1A.CH        Vial: 92
Acq On    :  2 Jun 2016   8:35 am                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105329.D\FID2B.CH        Vial: 92
Acq On    :  2 Jun 2016   8:49 am                   Operator: XULIU
Sample    : CC5288-5000                             Inst    : GCGH
Misc      : GC48523,GGH5307,5.0,,,,1                Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	16.779	-8.5	108	0.00	1.10- 1.16
2	Ethanol	18.950	20.711	-9.3	104	0.00	1.42- 1.51
3	Tert-Butyl Alcohol	28.335	31.872	-12.5	111	0.00	1.97- 2.09
4	1-Propanol	24.326	27.678	-13.8	108	0.00	2.47- 2.59
5	2-Propanol	19.931	22.378	-12.3	107	0.00	1.72- 1.81
6	Isobutanol	28.771	33.625	-16.9	114	0.00	3.28- 3.37
7	1-Butanol	28.561	31.808	-11.4	111	0.00	3.74- 3.80
8	2-Butanol	25.634	28.928	-12.9	112	0.00	2.90- 3.02
9 S	Hexanol	67.597	61.071	9.7	88	0.00	5.55- 5.61
*****	Signal #2 *****						
1	Methanol	32.254	27.548	14.6	79	0.00	0.90- 0.96
2	Ethanol	39.861	41.562	-4.3	96	0.00	1.13- 1.19
3	Tert-Butyl Alcohol	63.583	66.416	-4.5	100	0.00	1.61- 1.67
4	1-Propanol	50.842	50.631	0.4	92	0.00	1.97- 2.04
5	2-Propanol	45.279	46.438	-2.6	98	0.00	1.38- 1.44
6	Isobutanol	61.221	60.158	1.7	97	0.00	2.90- 2.96
7	1-Butanol	66.170	53.948	18.5	84	0.00	3.38- 3.44
8	2-Butanol	54.284	49.679	8.5	88	0.00	2.53- 2.59
9 S	Hexanol	155.348	135.993	12.5	86	0.00	5.45- 5.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105020.D MGH5288.M Thu Jun 02 09:49:59 2016 GCGH

8.7.5

8

Continuing Calibration Summary

Job Number: JC21229 **Sample:** GGH5308-CC5288
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH105338.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH105338.D\FID1A.CH         Vial: 95
Acq On    :  2 Jun 2016  11:49 am                    Operator: XULIU
Sample    : CC5288-10000                             Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                 Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105338.D\FID2B.CH         Vial: 95
Acq On    :  2 Jun 2016  12:04 pm                    Operator: XULIU
Sample    : CC5288-10000                             Inst    : GCGH
Misc      : GC48528,GGH5307,5.0,,,,1                 Multiplr: 1.00
IntFile   : autoint2.e

Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Mon May 23 10:02:11 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.459	14.850	3.9	94	0.00	1.09- 1.15
2	Ethanol	18.950	20.513	-8.2	101	0.00	1.41- 1.50
3	Tert-Butyl Alcohol	28.335	29.932	-5.6	102	0.00	1.96- 2.08
4	1-Propanol	24.326	27.925	-14.8	108	0.00	2.45- 2.57
5	2-Propanol	19.931	21.207	-6.4	99	0.00	1.71- 1.80
6	Isobutanol	28.771	32.878	-14.3	110	0.00	3.27- 3.36
7	1-Butanol	28.561	30.634	-7.3	106	0.00	3.73- 3.79
8	2-Butanol	25.634	28.230	-10.1	108	0.00	2.88- 3.00
9 S	Hexanol	67.597	68.768	-1.7	97	0.00	5.54- 5.60

***** Signal #2 *****

1	Methanol	32.254	32.430	-0.5	94	0.00	0.86- 0.92
2	Ethanol	39.861	43.516	-9.2	101	0.00	1.11- 1.17
3	Tert-Butyl Alcohol	63.583	69.764	-9.7	105	0.00	1.61- 1.67
4	1-Propanol	50.842	56.083	-10.3	102	0.00	1.95- 2.02
5	2-Propanol	45.279	48.284	-6.6	102	0.00	1.37- 1.43
6	Isobutanol	61.221	65.923	-7.7	104	0.00	2.90- 2.96
7	1-Butanol	66.170	62.882	5.0	104	0.00	3.37- 3.43
8	2-Butanol	54.284	58.319	-7.4	103	0.00	2.52- 2.58
9 S	Hexanol	155.348	157.707	-1.5	97	0.00	5.42- 5.48

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH105021.D MGH5288.M Thu Jun 02 13:39:31 2016 GCGH

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105335.D\FID1A.CH          Vial: 23
Acq On    :  2 Jun 2016  10:42 am                     Operator: XULIU
Sample    : JC21229-1                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.1,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105335.D\FID2B.CH          Vial: 23
Acq On    :  2 Jun 2016  10:51 am                     Operator: XULIU
Sample    : JC21229-1                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.1,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:32 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:29:21 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.57   5.45    288217   684776 4263.774  4408.024
 Spiked Amount   5000.000                  Recovery     =   85.28%    88.16%

Target Compounds
```

9.1.1

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105335.D  MGH5288.M      Thu Jun 02 14:38:04 2016      GCGH
```


SGS ACCUTEST JC21229

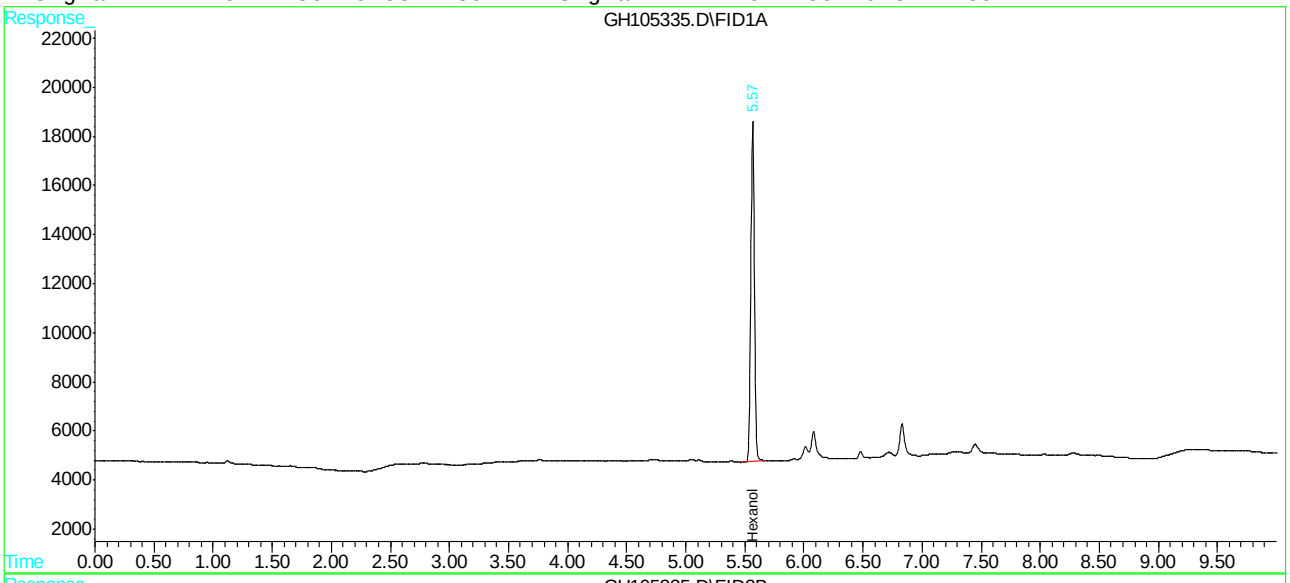
Quantitation Report (QT Reviewed)

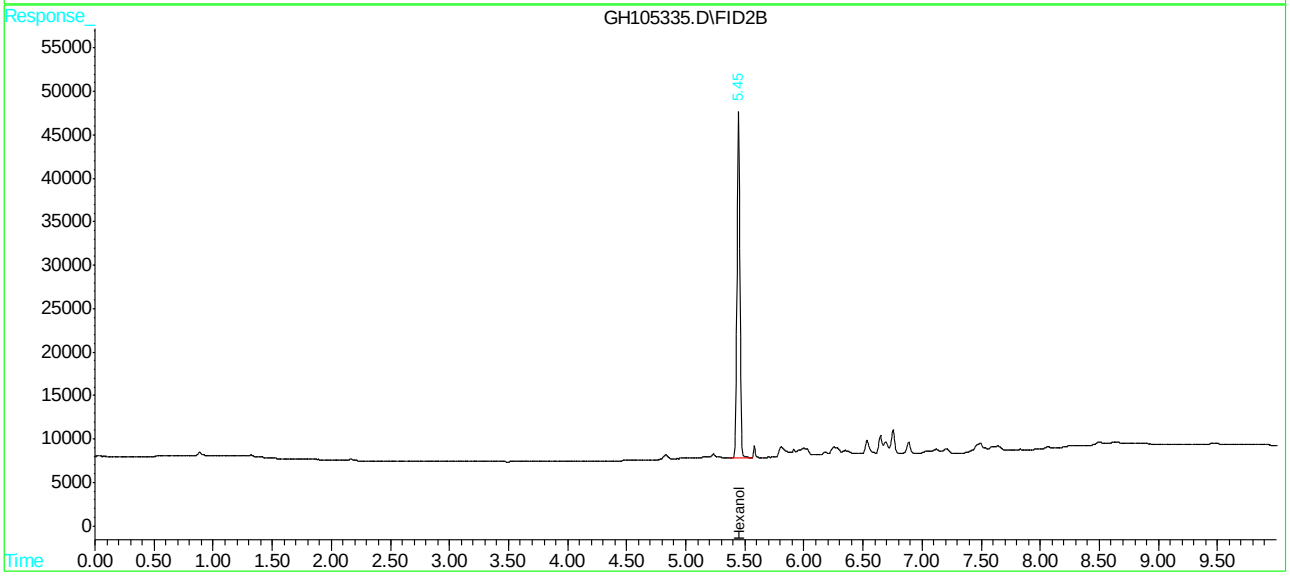
```
Data File : C:\HPCHEM\1\DATA\GH105335.D\FID1A.CH          Vial: 23
Acq On    :  2 Jun 2016  10:42 am                     Operator: XULIU
Sample    : JC21229-1                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.1,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105335.D\FID2B.CH          Vial: 23
Acq On    :  2 Jun 2016  10:51 am                     Operator: XULIU
Sample    : JC21229-1                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.1,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:32 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:29:21 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105332.D\FID1A.CH          Vial: 20
Acq On    :  2 Jun 2016   9:47 am                     Operator: XULIU
Sample    : JC21229-2                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105332.D\FID2B.CH          Vial: 20
Acq On    :  2 Jun 2016  10:04 am                     Operator: XULIU
Sample    : JC21229-2                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 10:38 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:39:04 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.57   5.47    326516   674316 4830.351  4340.696
 Spiked Amount   5000.000                  Recovery     =   96.61%    86.81%

Target Compounds
```

9.1.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105332.D  MGH5288.M      Thu Jun 02 14:37:31 2016      GCGH
```


SGS ACCUTEST JC21229

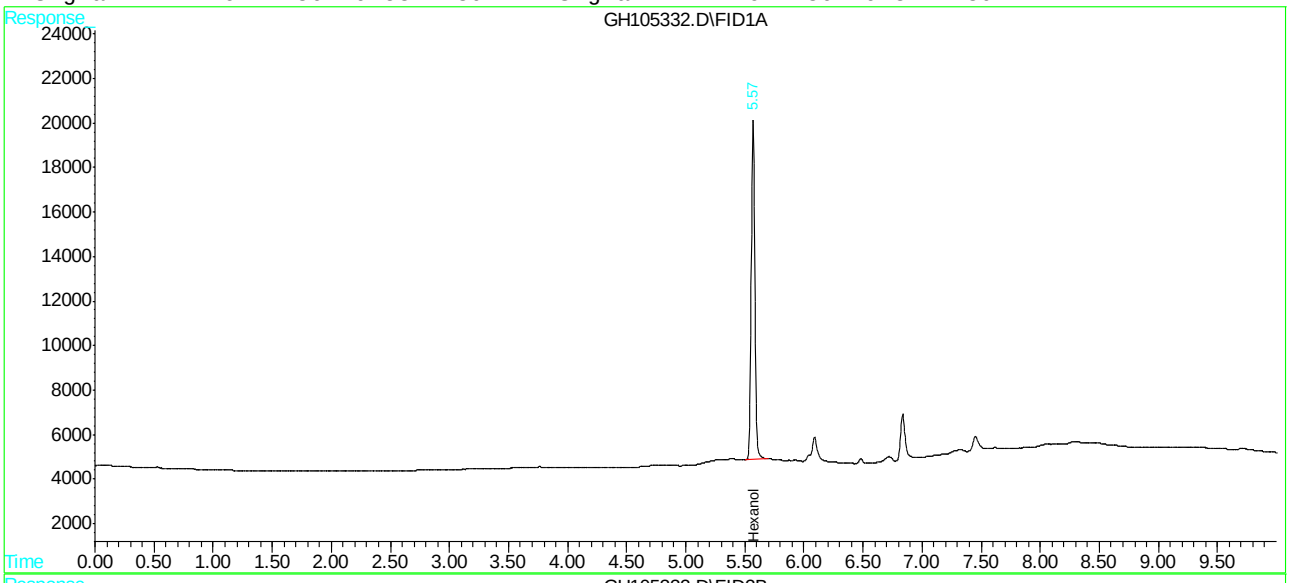
Quantitation Report (QT Reviewed)

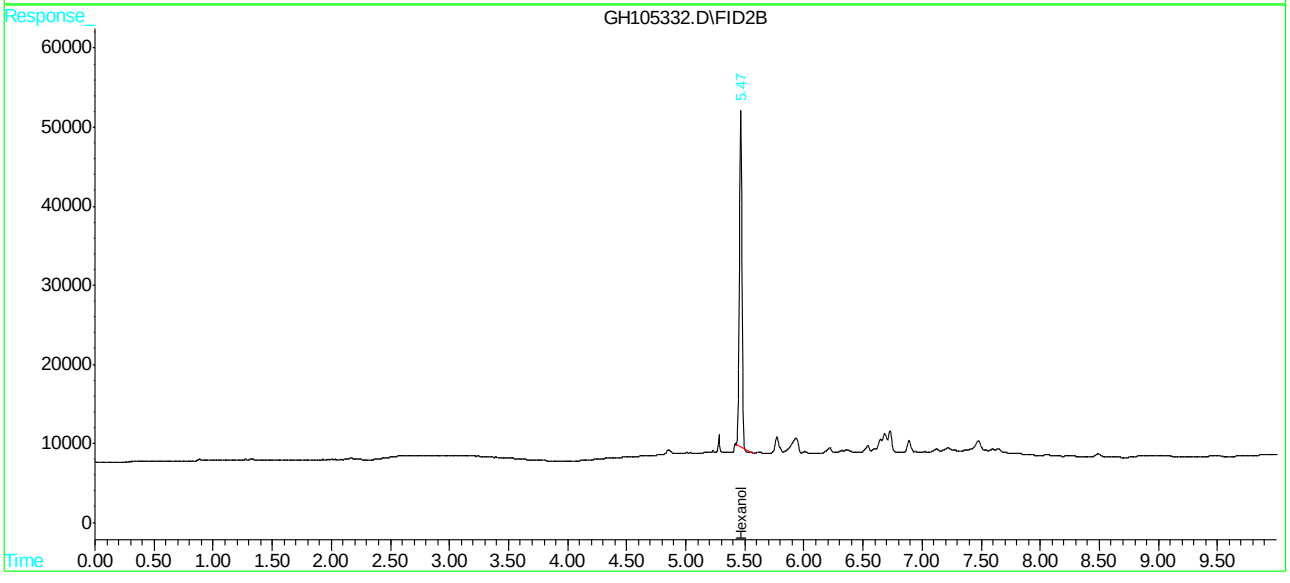
```
Data File : C:\HPCHEM\1\DATA\GH105332.D\FID1A.CH          Vial: 20
Acq On    :  2 Jun 2016   9:47 am                     Operator: XULIU
Sample    : JC21229-2                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105332.D\FID2B.CH          Vial: 20
Acq On    :  2 Jun 2016  10:04 am                     Operator: XULIU
Sample    : JC21229-2                                 Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 10:38 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:39:04 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105308.D\FID1A.CH          Vial: 20
Acq On    :  1 Jun 2016   9:09 am                     Operator: XULIU
Sample    : JC21229-3                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105308.D\FID2B.CH          Vial: 20
Acq On    :  1 Jun 2016   9:22 am                     Operator: XULIU
Sample    : JC21229-3                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:00 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:40:05 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.56   5.47    239512   536927 3543.256  3456.292
 Spiked Amount   5000.000                  Recovery     =   70.87%    69.13%

Target Compounds
```

9.1.3

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105308.D  MGH5288.M      Wed Jun 01 10:00:41 2016      GCGH
```


SGS ACCUTEST JC21229

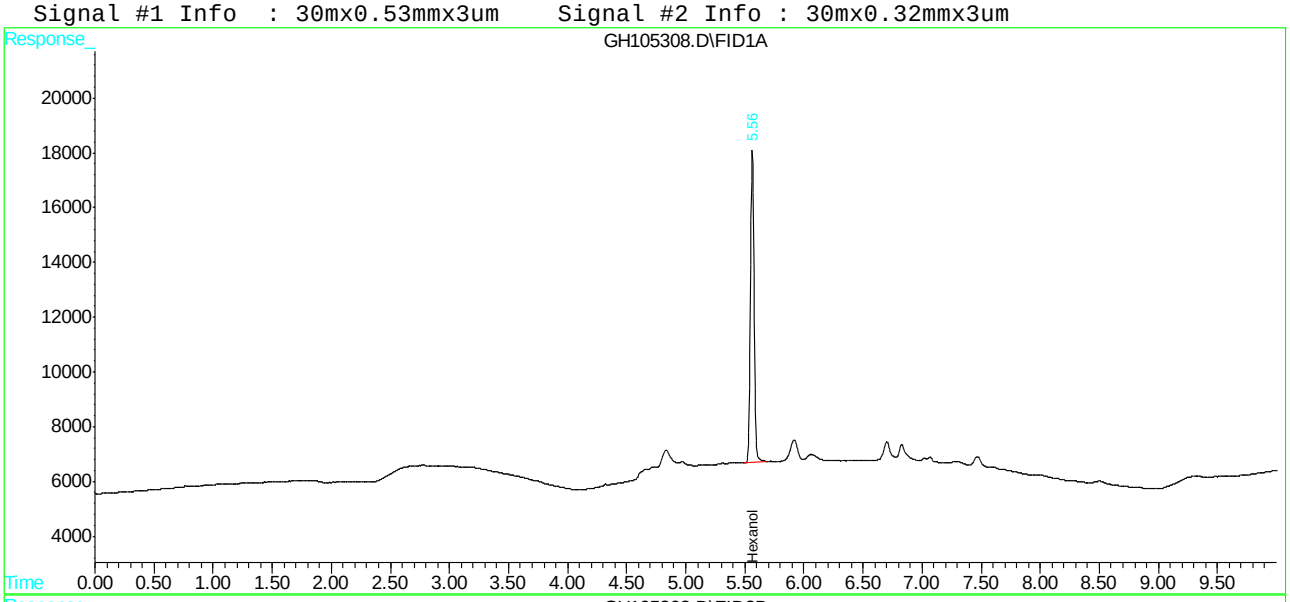
Quantitation Report (QT Reviewed)

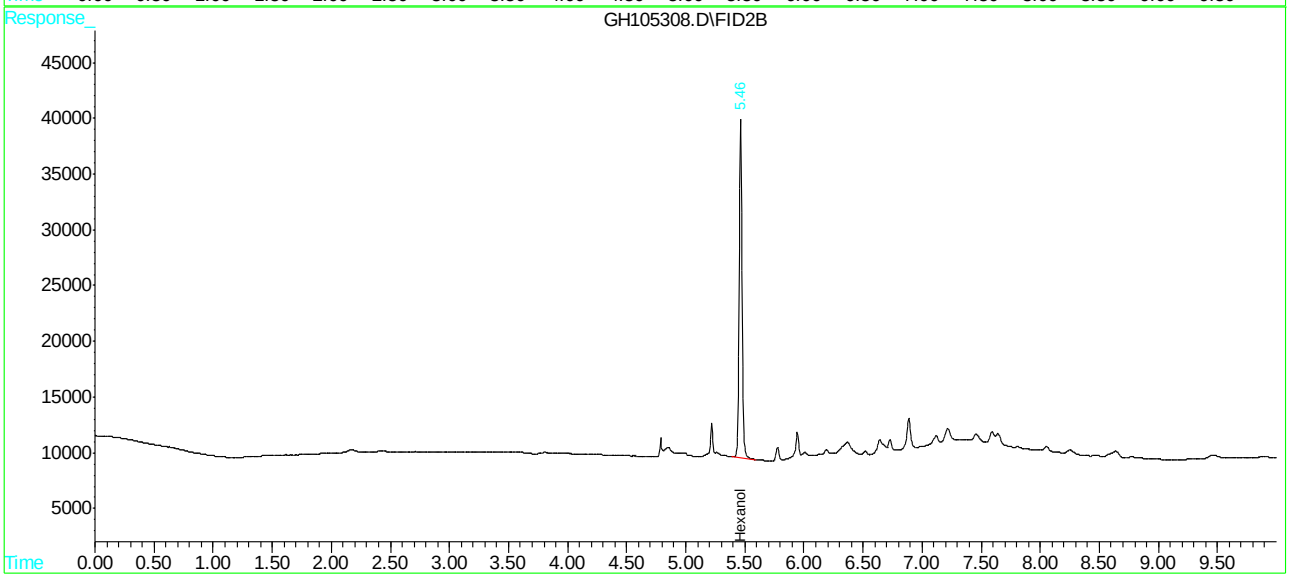
```
Data File : C:\HPCHEM\1\DATA\GH105308.D\FID1A.CH          Vial: 20
Acq On    :  1 Jun 2016   9:09 am                     Operator: XULIU
Sample    : JC21229-3                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105308.D\FID2B.CH          Vial: 20
Acq On    :  1 Jun 2016   9:22 am                     Operator: XULIU
Sample    : JC21229-3                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:00 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:40:05 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105309.D\FID1A.CH          Vial: 21
Acq On    :  1 Jun 2016   9:22 am                     Operator: XULIU
Sample    : JC21229-4                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105309.D\FID2B.CH          Vial: 21
Acq On    :  1 Jun 2016   9:43 am                     Operator: XULIU
Sample    : JC21229-4                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:00 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:40:05 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.56   5.46    257864   590474 3814.747  3800.989
 Spiked Amount   5000.000                  Recovery     =   76.29%    76.02%

Target Compounds
```

9.1.4

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105309.D  MGH5288.M      Wed Jun 01 10:01:15 2016      GCGH
```


SGS ACCUTEST JC21229

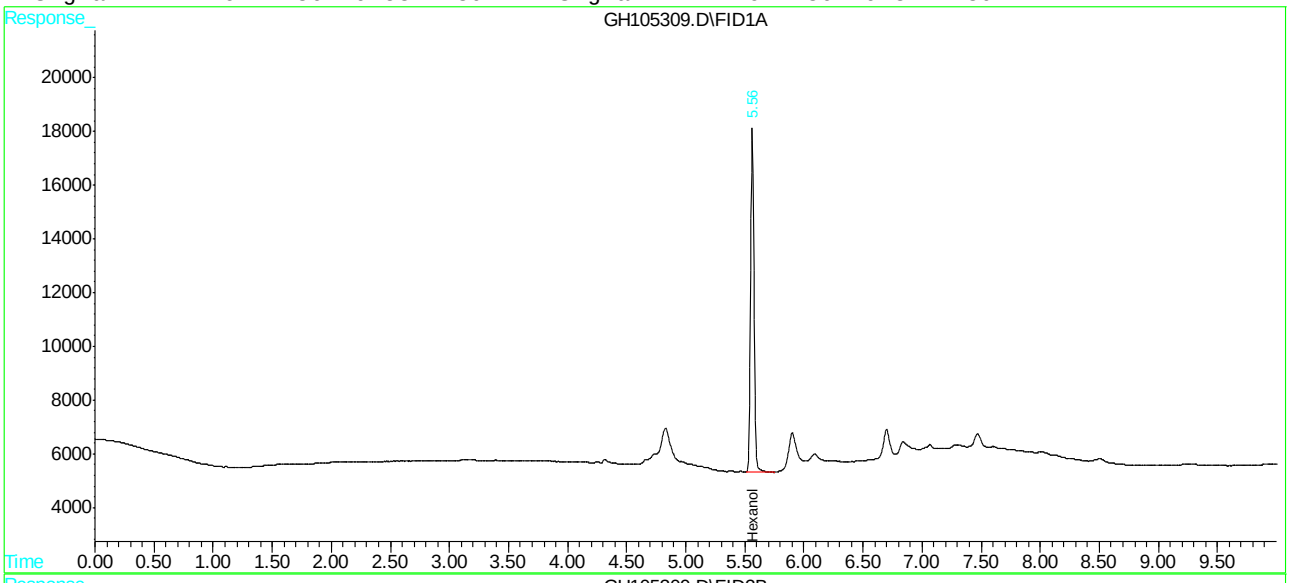
Quantitation Report (QT Reviewed)

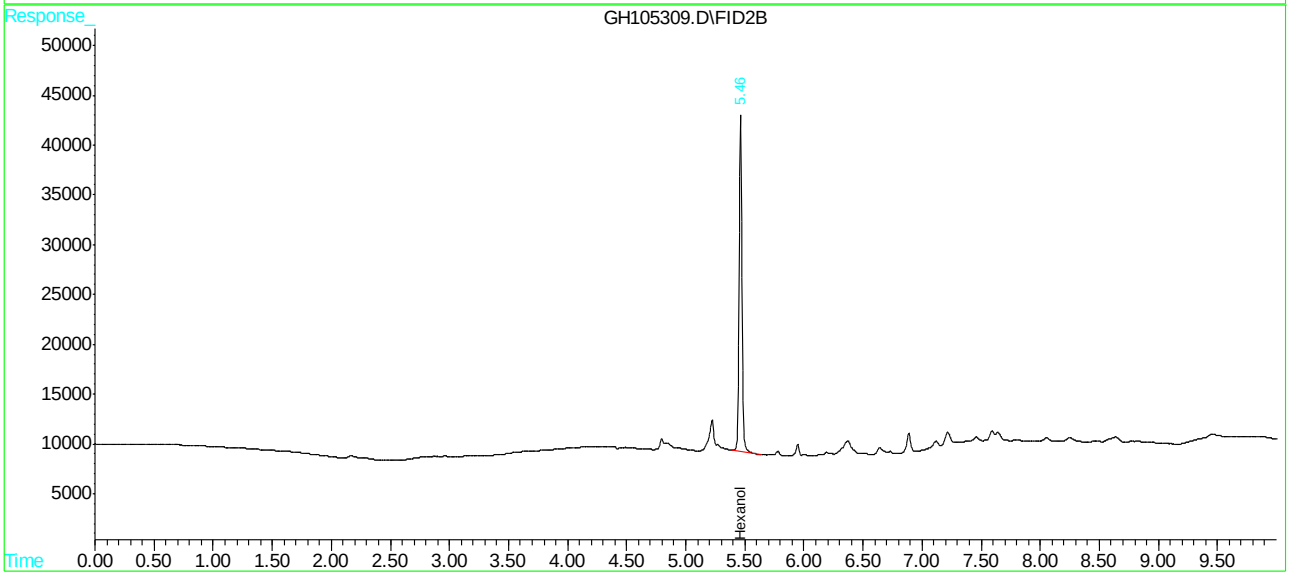
```
Data File : C:\HPCHEM\1\DATA\GH105309.D\FID1A.CH          Vial: 21
Acq On    :  1 Jun 2016   9:22 am                     Operator: XULIU
Sample    : JC21229-4                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105309.D\FID2B.CH          Vial: 21
Acq On    :  1 Jun 2016   9:43 am                     Operator: XULIU
Sample    : JC21229-4                                 Inst    : GCGH
Misc      : GC48522,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:00 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:40:05 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105306.D\FID1A.CH          Vial: 93
Acq On    :  1 Jun 2016   8:04 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105306.D\FID2B.CH          Vial: 93
Acq On    :  1 Jun 2016   8:18 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1  9:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:35:25 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.57   5.47    353291   792324 5226.460  5100.335
 Spiked Amount   5000.000                  Recovery     =  104.53%   102.01%

Target Compounds
```

9.2.1

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105306.D  MGH5288.M      Wed Jun 01 09:42:43 2016      GCGH
```


SGS ACCUTEST JC21229

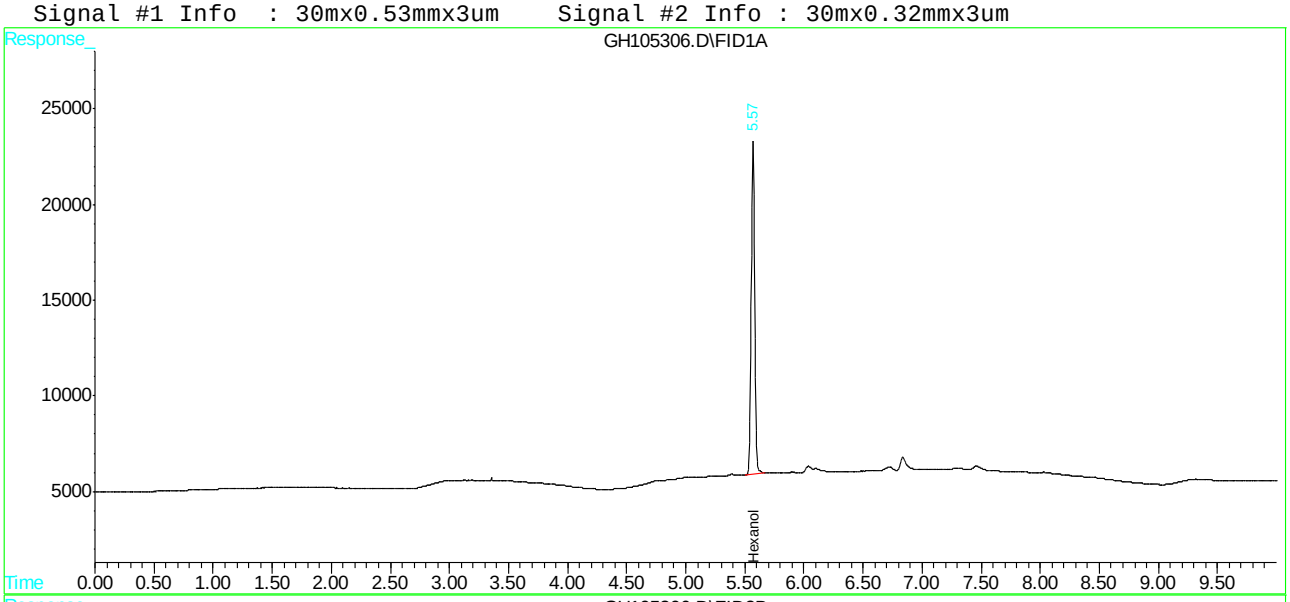
Quantitation Report (QT Reviewed)

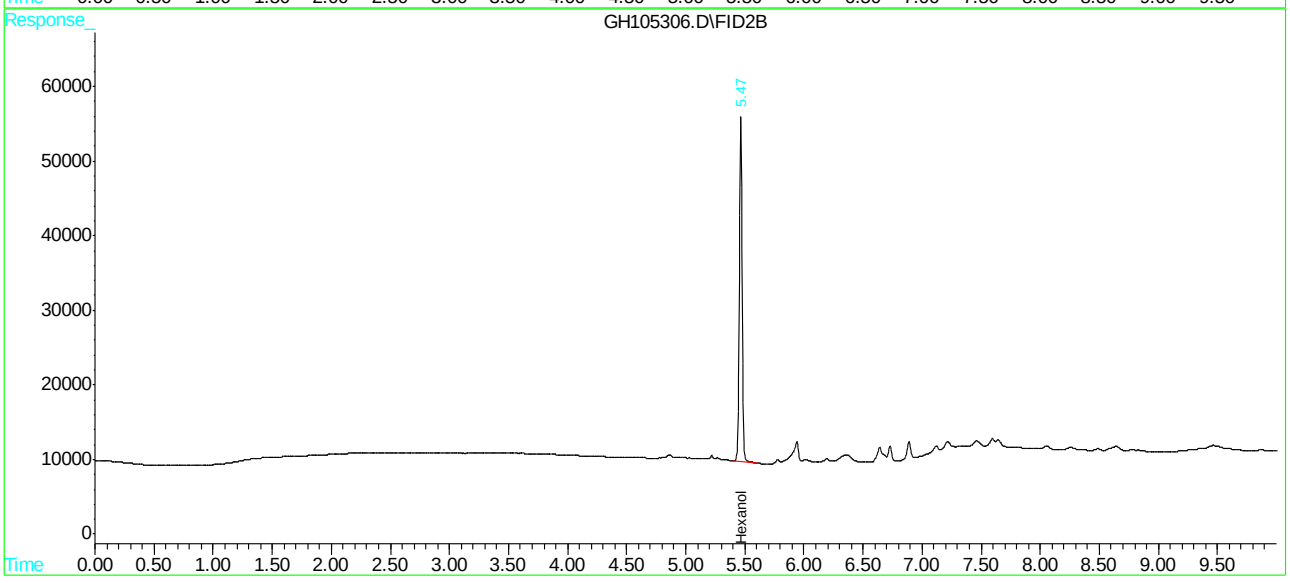
```
Data File : C:\HPCHEM\1\DATA\GH105306.D\FID1A.CH          Vial: 93
Acq On    :  1 Jun 2016   8:04 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105306.D\FID2B.CH          Vial: 93
Acq On    :  1 Jun 2016   8:18 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1  9:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:35:25 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105330.D\FID1A.CH          Vial: 93
Acq On    :  2 Jun 2016   8:49 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105330.D\FID2B.CH          Vial: 93
Acq On    :  2 Jun 2016   9:11 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2  9:32 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:32:08 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
9) S   Hexanol           5.58   5.47    270773   606749 4005.710  3905.754
 Spiked Amount   5000.000                  Recovery     =   80.11%    78.12%

Target Compounds
```

9.2.2

9

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105330.D  MGH5288.M      Thu Jun 02 14:37:12 2016      GCGH
```


SGS ACCUTEST JC21229

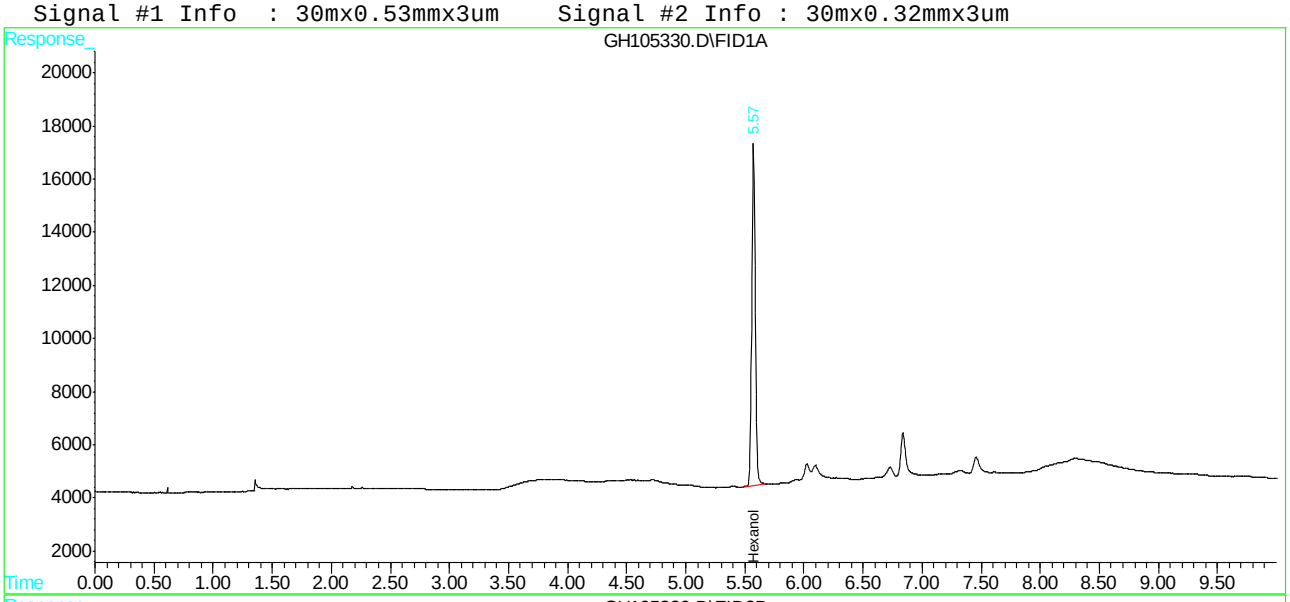
Quantitation Report (QT Reviewed)

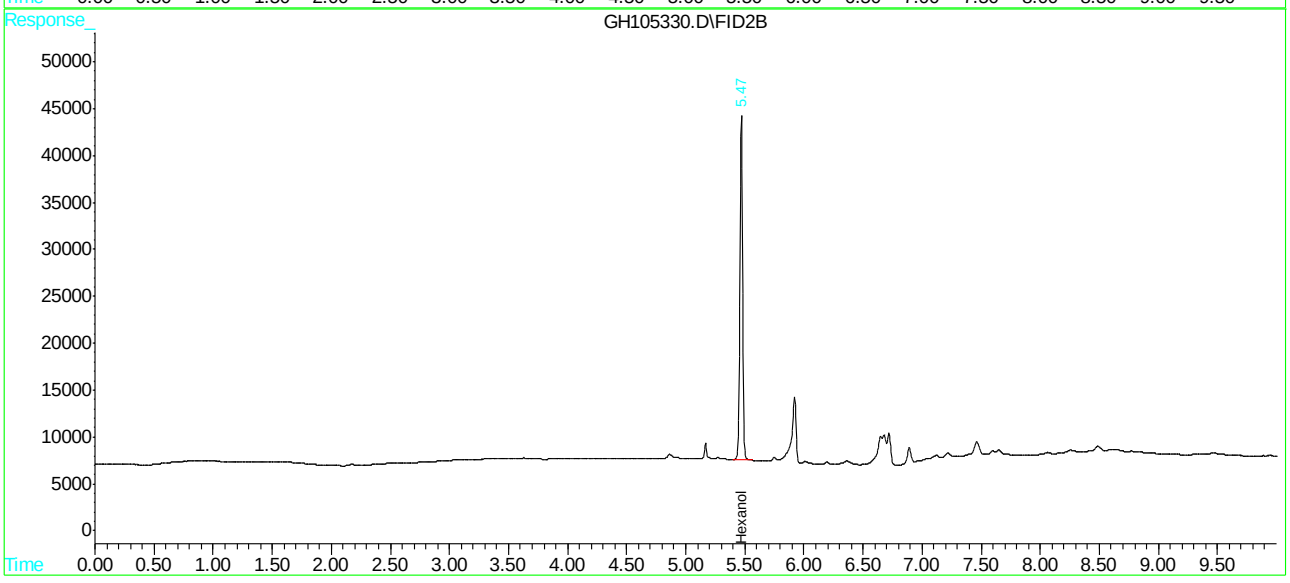
```
Data File : C:\HPCHEM\1\DATA\GH105330.D\FID1A.CH          Vial: 93
Acq On    :  2 Jun 2016   8:49 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105330.D\FID2B.CH          Vial: 93
Acq On    :  2 Jun 2016   9:11 am                     Operator: XULIU
Sample    : MB1                                       Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2  9:32 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:32:08 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105307.D\FID1A.CH          Vial: 94
Acq On    :  1 Jun 2016   8:33 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105307.D\FID2B.CH          Vial: 94
Acq On    :  1 Jun 2016   8:54 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1  9:40 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:40:05 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.47	319886	754520	4732.272	4856.978
	Spiked Amount 5000.000			Recovery	=	94.65%	97.14%
	Target Compounds						
1)	Methanol	1.12	0.89	71232	147505	4607.913	4573.207
2)	Ethanol	1.45	1.14	104047	223719	5490.536	5612.501
3)	Tert-Butyl Alcoh	2.01	1.63	153774	361785	5427.036	5689.966
4)	1-Propanol	2.51	1.98	136733	281036	5620.813	5527.572
5)	2-Propanol	1.75	1.40	107259	247599	5381.511	5468.285
6)	Isobutanol	3.32	2.93	168004	347691	5839.358	5679.260
7)	1-Butanol	3.79	3.40	155487	337074	5444.091	5094.068
8)	2-Butanol	2.94	2.55	153937	305030	6005.091	5619.103

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

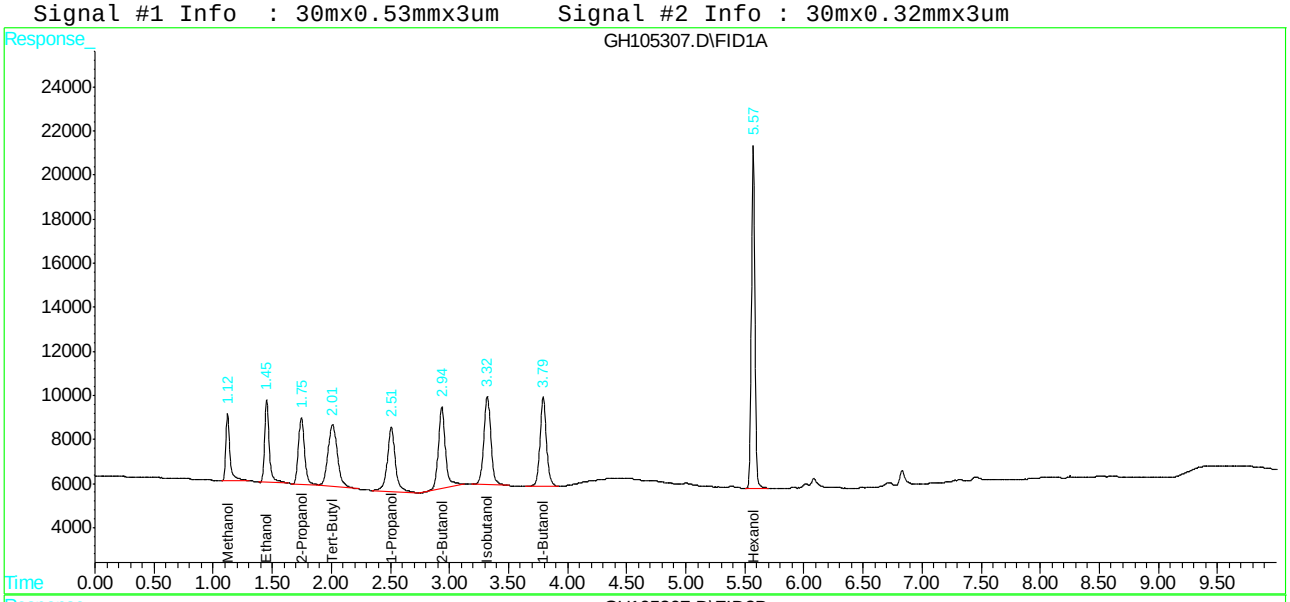
Quantitation Report (QT Reviewed)

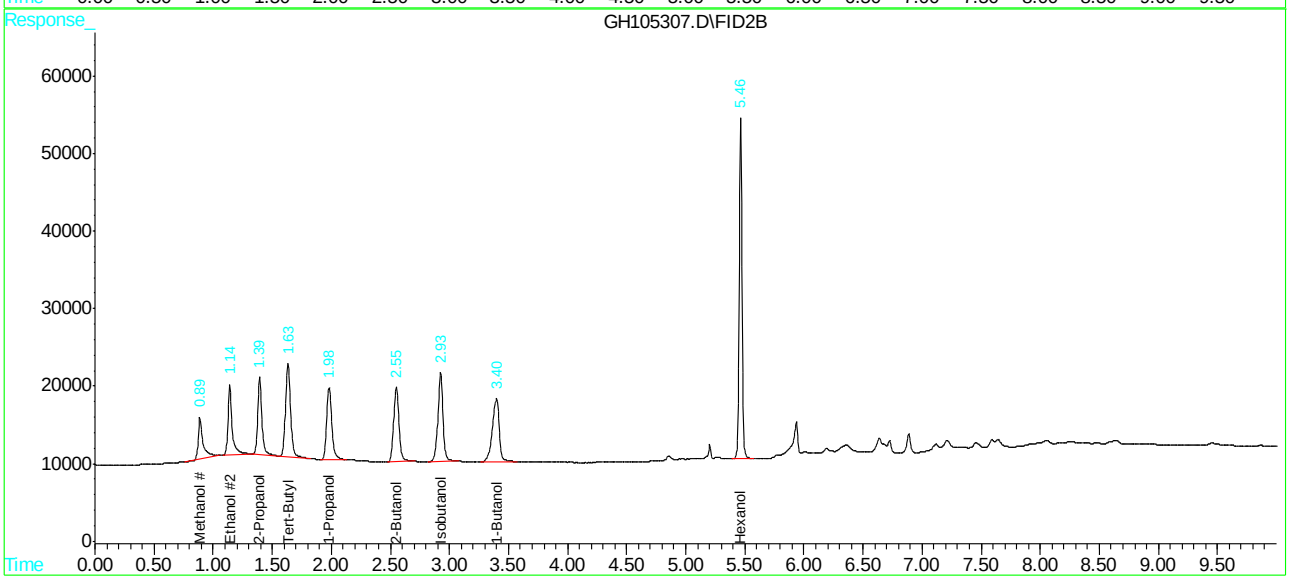
```
Data File : C:\HPCHEM\1\DATA\GH105307.D\FID1A.CH          Vial: 94
Acq On    :  1 Jun 2016   8:33 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105307.D\FID2B.CH          Vial: 94
Acq On    :  1 Jun 2016   8:54 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1  9:40 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:40:05 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105331.D\FID1A.CH          Vial: 94
Acq On    :  2 Jun 2016   9:11 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105331.D\FID2B.CH          Vial: 94
Acq On    :  2 Jun 2016   9:25 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2  9:39 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:39:04 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
9) S Hexanol	5.57	5.47	328475	728289	4859.335	4688.125
Spiked Amount 5000.000			Recovery	=	97.19%	93.76%
Target Compounds						
1) Methanol	1.12	0.89	72817	175651	4710.391	5445.821
2) Ethanol	1.46	1.14	108475	232523	5724.239	5833.357
3) Tert-Butyl Alcoh	2.03	1.64	157098	380602	5544.336	5985.922
4) 1-Propanol	2.52	2.00	145739	304945	5991.034	5997.830
5) 2-Propanol	1.76	1.40	111120	261012	5575.231	5764.513
6) Isobutanol	3.32	2.93	179030	360492	6222.585	5888.357
7) 1-Butanol	3.77	3.40	166336	339945	5823.965	5137.443
8) 2-Butanol	2.95	2.55	150649	314538	5876.808	5794.267

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

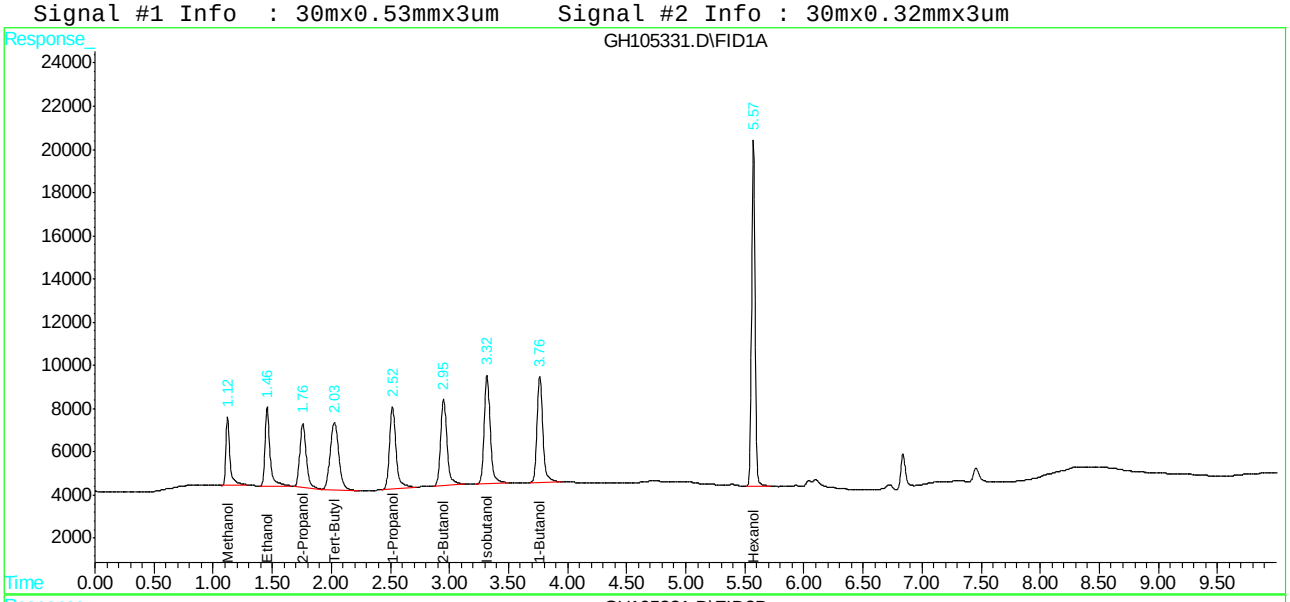
Quantitation Report (QT Reviewed)

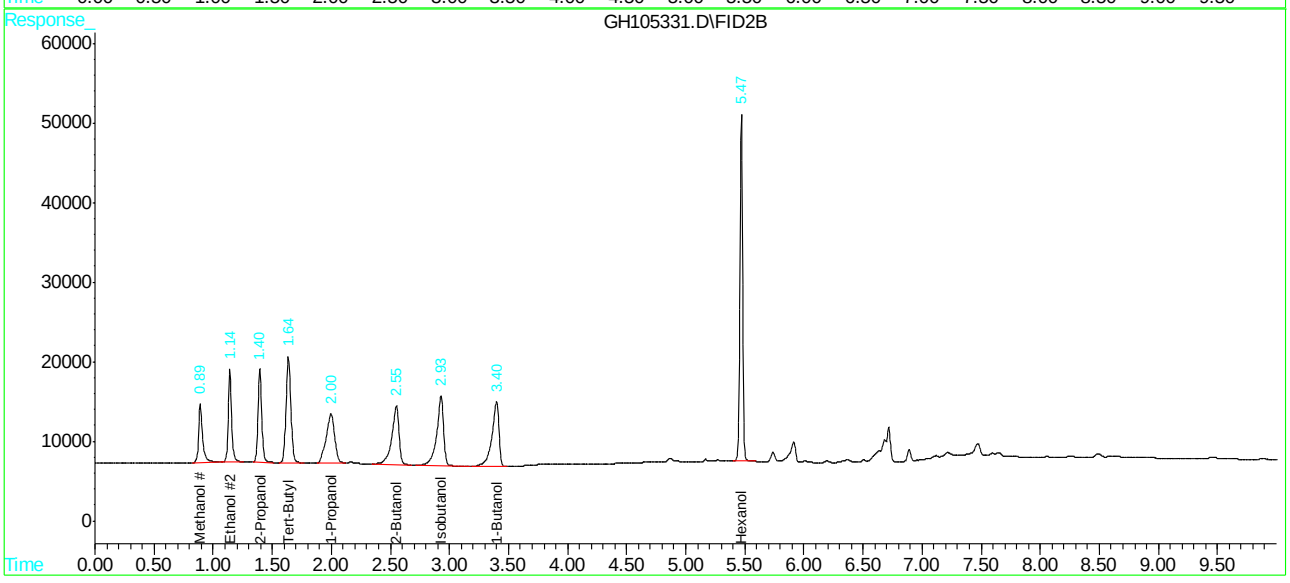
```
Data File : C:\HPCHEM\1\DATA\GH105331.D\FID1A.CH          Vial: 94
Acq On    :  2 Jun 2016   9:11 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105331.D\FID2B.CH          Vial: 94
Acq On    :  2 Jun 2016   9:25 am                     Operator: XULIU
Sample    : BS                                        Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2  9:39 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:39:04 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105311.D\FID1A.CH          Vial: 23
Acq On    :  1 Jun 2016   9:53 am                     Operator: XULIU
Sample    : JC21060-1MS                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105311.D\FID2B.CH          Vial: 23
Acq On    :  1 Jun 2016  10:15 am                     Operator: XULIU
Sample    : JC21060-1MS                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:53 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 10:53:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.46	253279	591562	3746.911	3807.991
Spiked Amount	5000.000			Recovery	=	74.94%	76.16%
	Target Compounds						
1)	Methanol	1.11	0.89	78657	149757	5088.214	4643.012
2)	Ethanol	1.44	1.14	107344	213199	5664.544	5348.566
3)	Tert-Butyl Alcoh	2.01	1.63	158874	357358	5607.039	5620.349
4)	1-Propanol	2.50	1.98	140601	285124	5779.820	5607.980
5)	2-Propanol	1.74	1.39	111147	242657	5576.582	5359.133
6)	Isobutanol	3.30	2.92	166197	343595	5776.551	5612.360
7)	1-Butanol	3.75	3.40	154556	319050	5411.493	4821.679
8)	2-Butanol	2.93	2.55	141718	314034	5528.426	5784.972

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21229

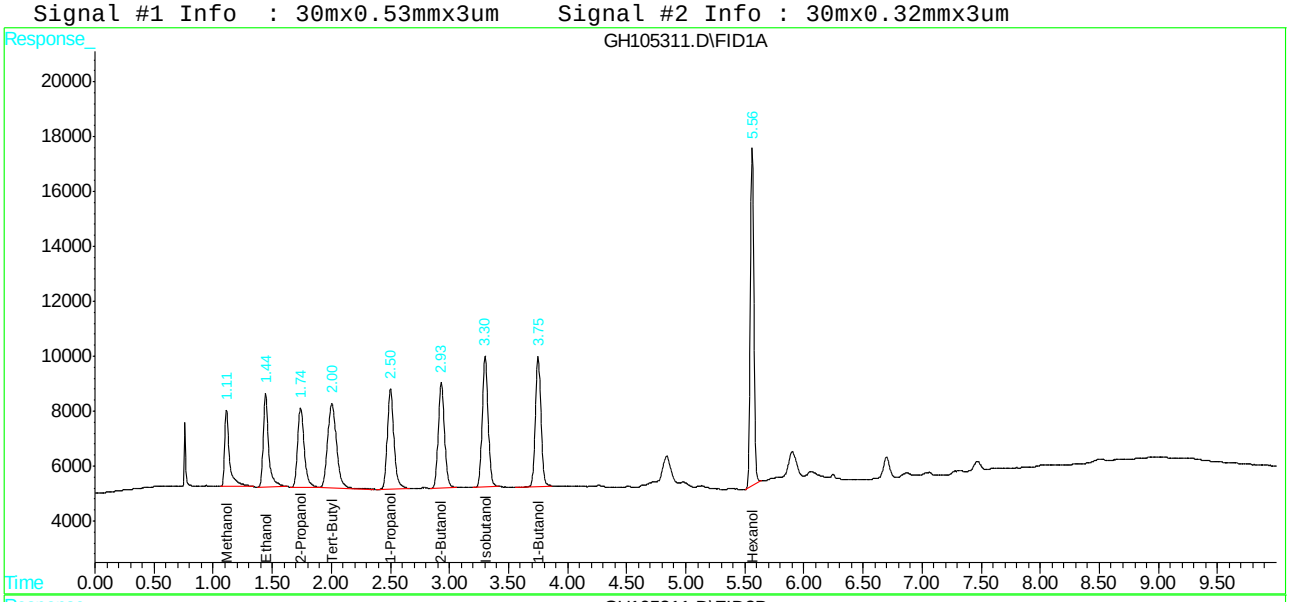
Quantitation Report (QT Reviewed)

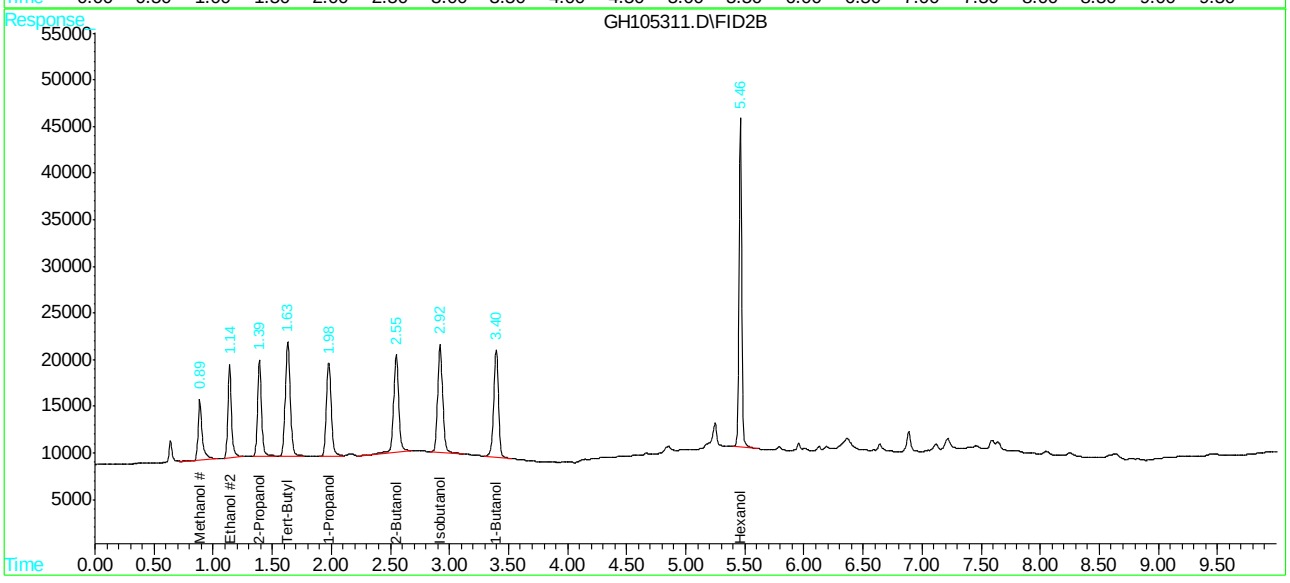
```
Data File : C:\HPCHEM\1\DATA\GH105311.D\FID1A.CH          Vial: 23
Acq On    :  1 Jun 2016   9:53 am                     Operator: XULIU
Sample    : JC21060-1MS                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105311.D\FID2B.CH          Vial: 23
Acq On    :  1 Jun 2016  10:15 am                     Operator: XULIU
Sample    : JC21060-1MS                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:53 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 10:53:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105312.D\FID1A.CH          Vial: 24
Acq On    :  1 Jun 2016  10:15 am                     Operator: XULIU
Sample    : JC21060-1MSD                              Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105312.D\FID2B.CH          Vial: 24
Acq On    :  1 Jun 2016  10:30 am                     Operator: XULIU
Sample    : JC21060-1MSD                              Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:56 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 10:53:39 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.45f	271872	607830	4021.965	3912.713
	Spiked Amount 5000.000			Recovery	=	80.44%	78.25%
	Target Compounds						
1)	Methanol	1.12	0.89	71834	138846	4646.801	4304.742
2)	Ethanol	1.45	1.14	99320	222949	5241.082	5593.170
3)	Tert-Butyl Alcoh	2.01	1.64	149476	432700	5275.349	6805.285
4)	1-Propanol	2.50	1.99	156990	264664	6453.554	5205.563
5)	2-Propanol	1.74	1.40	103574	263305	5196.618	5815.152
6)	Isobutanol	3.30	2.93	160667	356424	5584.341	5821.914
7)	1-Butanol	3.75	3.40	149133	339023	5221.612	5123.519
8)	2-Butanol	2.93	2.56	140891	299748	5496.160	5521.807

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

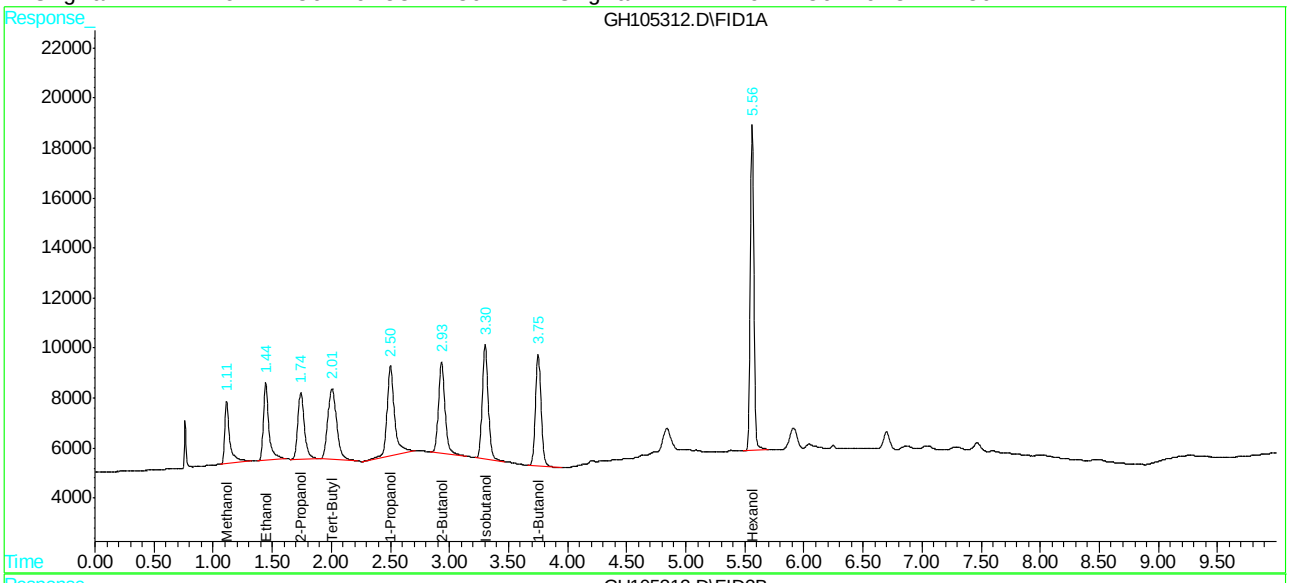
Quantitation Report (QT Reviewed)

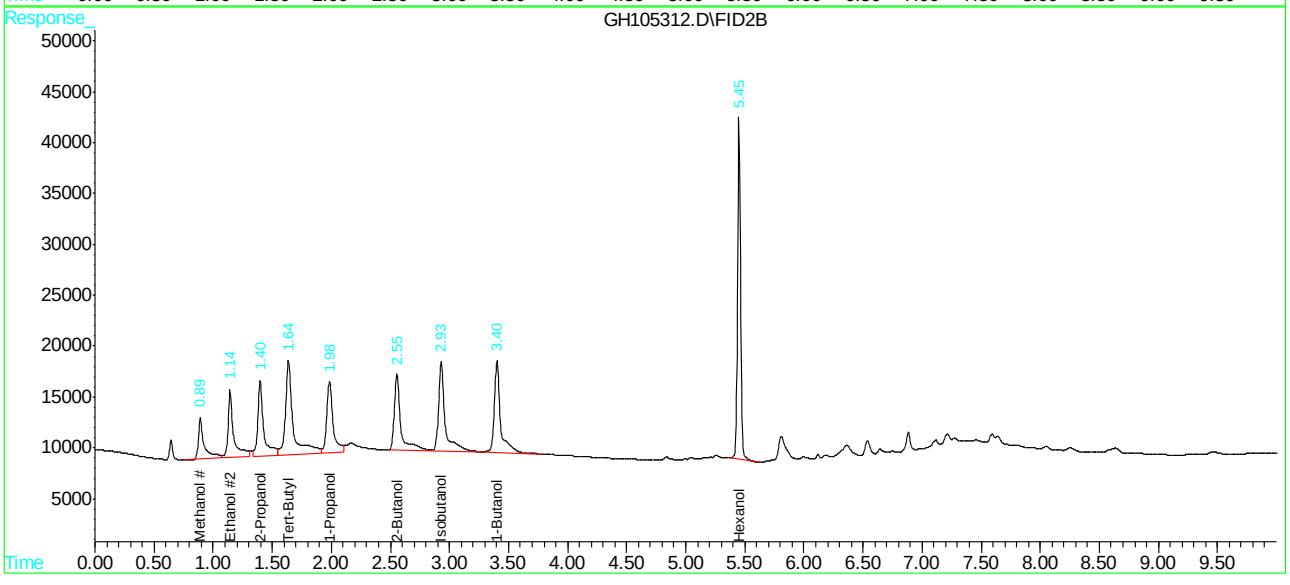
```
Data File : C:\HPCHEM\1\DATA\GH105312.D\FID1A.CH          Vial: 24
Acq On    :  1 Jun 2016  10:15 am                     Operator: XULIU
Sample    : JC21060-1MSD                              Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105312.D\FID2B.CH          Vial: 24
Acq On    :  1 Jun 2016  10:30 am                     Operator: XULIU
Sample    : JC21060-1MSD                              Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 10:56 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 10:53:39 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105333.D\FID1A.CH          Vial: 21
Acq On    :  2 Jun 2016  10:04 am                     Operator: XULIU
Sample    : JC21229-2MS                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105333.D\FID2B.CH          Vial: 21
Acq On    :  2 Jun 2016  10:26 am                     Operator: XULIU
Sample    : JC21229-2MS                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 10:37 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 10:37:20 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.47	302721	648036	4478.339	4171.521
	Spiked Amount 5000.000			Recovery	=	89.57%	83.43%
	Target Compounds						
1)	Methanol	1.12	0.89	77880	159554	5037.906	4946.768
2)	Ethanol	1.45	1.14	107136	217384	5653.557	5453.567
3)	Tert-Butyl Alcoh	2.02	1.64	154983	353119	5469.685	5553.685
4)	1-Propanol	2.52	1.98	132865	285011	5461.819	5605.767
5)	2-Propanol	1.75	1.40	110562	240813	5547.219	5318.399
6)	Isobutanol	3.31	2.93	166827	333016	5798.461	5439.562
7)	1-Butanol	3.76	3.39	153984	315100	5391.486	4761.974
8)	2-Butanol	2.95	2.55	142364	294655	5553.607	5427.991

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

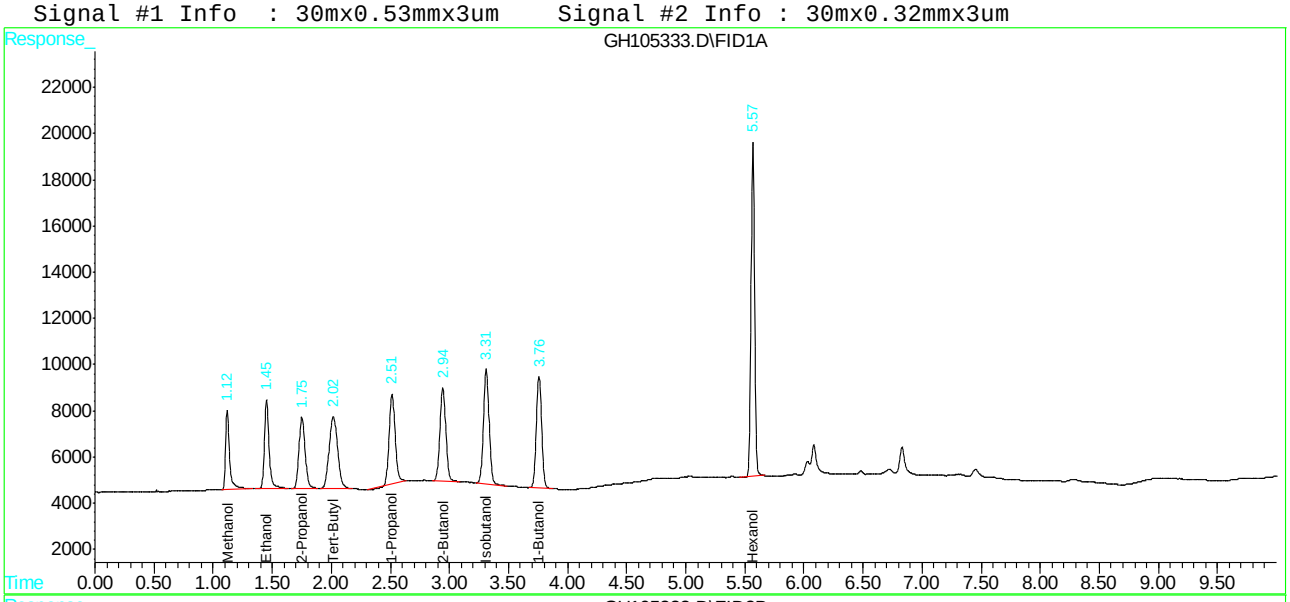
Quantitation Report (QT Reviewed)

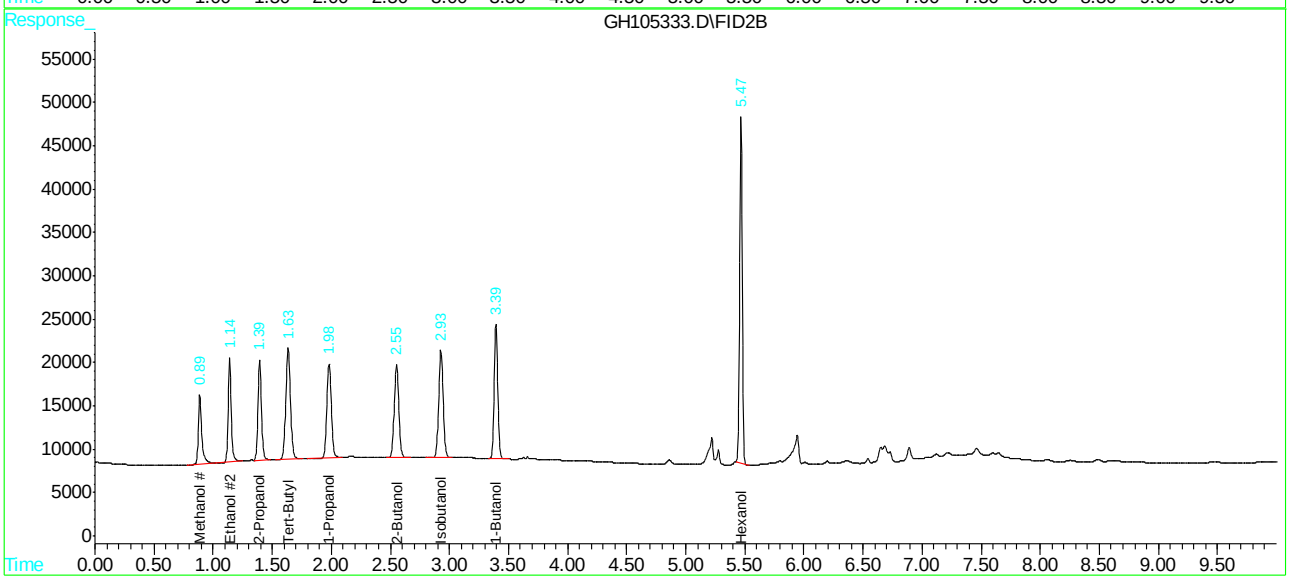
```
Data File : C:\HPCHEM\1\DATA\GH105333.D\FID1A.CH          Vial: 21
Acq On    :  2 Jun 2016  10:04 am                     Operator: XULIU
Sample    : JC21229-2MS                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105333.D\FID2B.CH          Vial: 21
Acq On    :  2 Jun 2016  10:26 am                     Operator: XULIU
Sample    : JC21229-2MS                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 10:37 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 10:37:20 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105334.D\FID1A.CH          Vial: 22
Acq On    :  2 Jun 2016  10:26 am                     Operator: XULIU
Sample    : JC21229-2MSD                              Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105334.D\FID2B.CH          Vial: 22
Acq On    :  2 Jun 2016  10:42 am                     Operator: XULIU
Sample    : JC21229-2MSD                              Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:29 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:29:21 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.47	278506	634602	4120.118	4085.050
Spiked Amount	5000.000			Recovery	=	82.40%	81.70%
	Target Compounds						
1)	Methanol	1.12	0.89	70914	165193	4587.333	5121.596
2)	Ethanol	1.45	1.14	100602	217050	5308.764	5445.172
3)	Tert-Butyl Alcoh	2.02	1.64	153110	349183	5403.607	5491.781
4)	1-Propanol	2.51	1.98	136940	281021	5629.332	5527.282
5)	2-Propanol	1.75	1.40	109026	240556	5470.174	5312.734
6)	Isobutanol	3.31	2.93	164293	330393	5710.357	5396.709
7)	1-Butanol	3.76	3.40	153303	324734	5367.643	4907.579
8)	2-Butanol	2.95	2.56	139528	305829	5442.999	5633.835

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

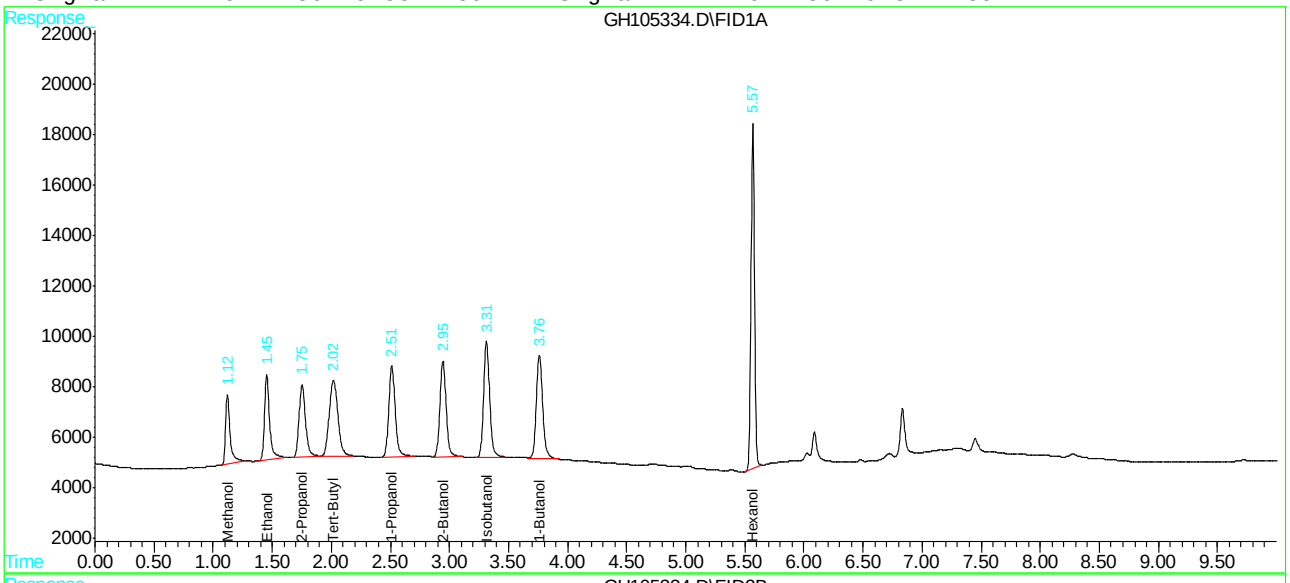
Quantitation Report (QT Reviewed)

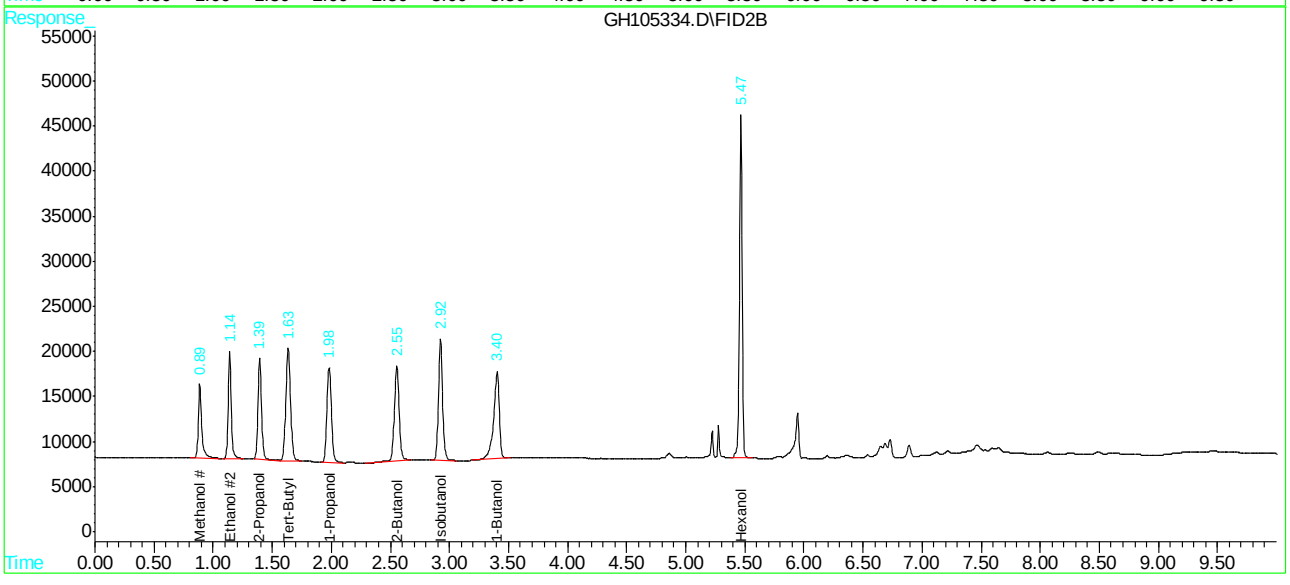
```
Data File : C:\HPCHEM\1\DATA\GH105334.D\FID1A.CH          Vial: 22
Acq On    :  2 Jun 2016  10:26 am                     Operator: XULIU
Sample    : JC21229-2MSD                              Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105334.D\FID2B.CH          Vial: 22
Acq On    :  2 Jun 2016  10:42 am                     Operator: XULIU
Sample    : JC21229-2MSD                              Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:29 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:29:21 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integrations APPROVED (compounds with "m" flag)
Owen McKenna
05/18/16 09:16

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  8:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	49213	113892	786.392	792.225
Spiked Amount	5000.000			Recovery	=	15.73%	15.84%
	Target Compounds						
1)	Methanol	1.12	0.89f	1784	2982	115.427	93.713m
2)	Ethanol	1.45	1.15	2099	3361	110.763	84.901m
3)	Tert-Butyl Alcoh	2.01	1.66	2806	5629	99.020	88.524
4)	1-Propanol	2.52	2.03	2187	3458	89.885	69.117m
5)	2-Propanol	1.75	1.41	1888	4004	94.702	88.437
6)	Isobutanol	3.32	2.95f	2784	6044	96.777	98.728
7)	1-Butanol	3.76	3.42	3014	7445	105.546	113.606m
8)	2-Butanol	2.95	2.57	2840	4510	121.739m	83.638m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21229

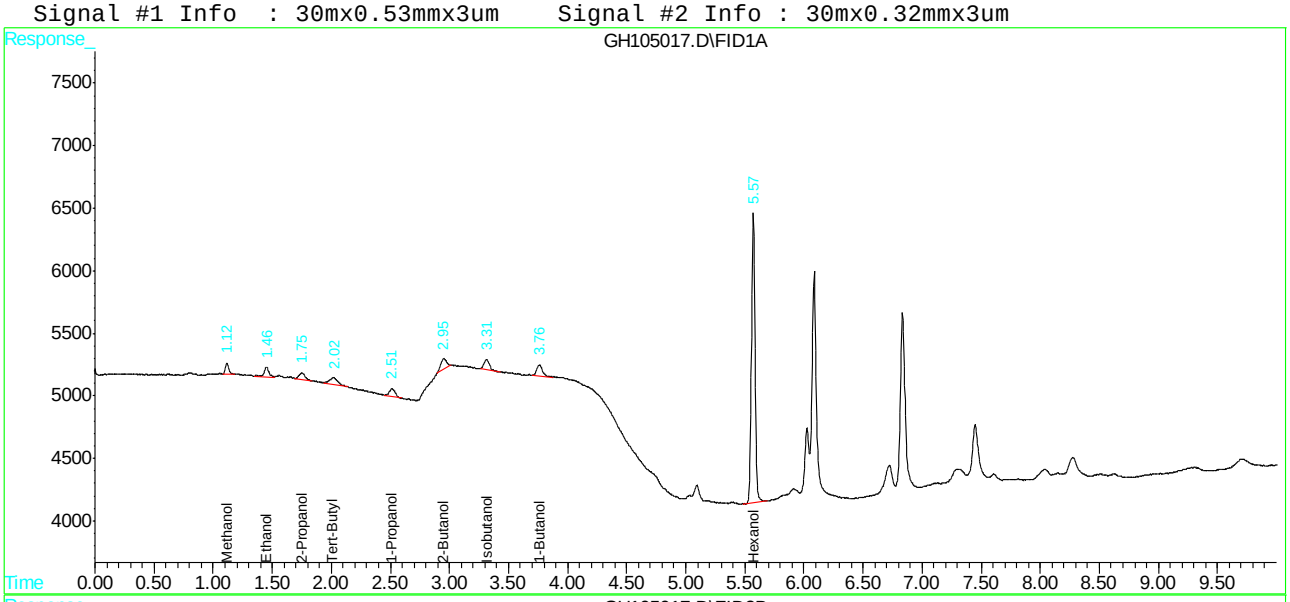
Quantitation Report (QT Reviewed)

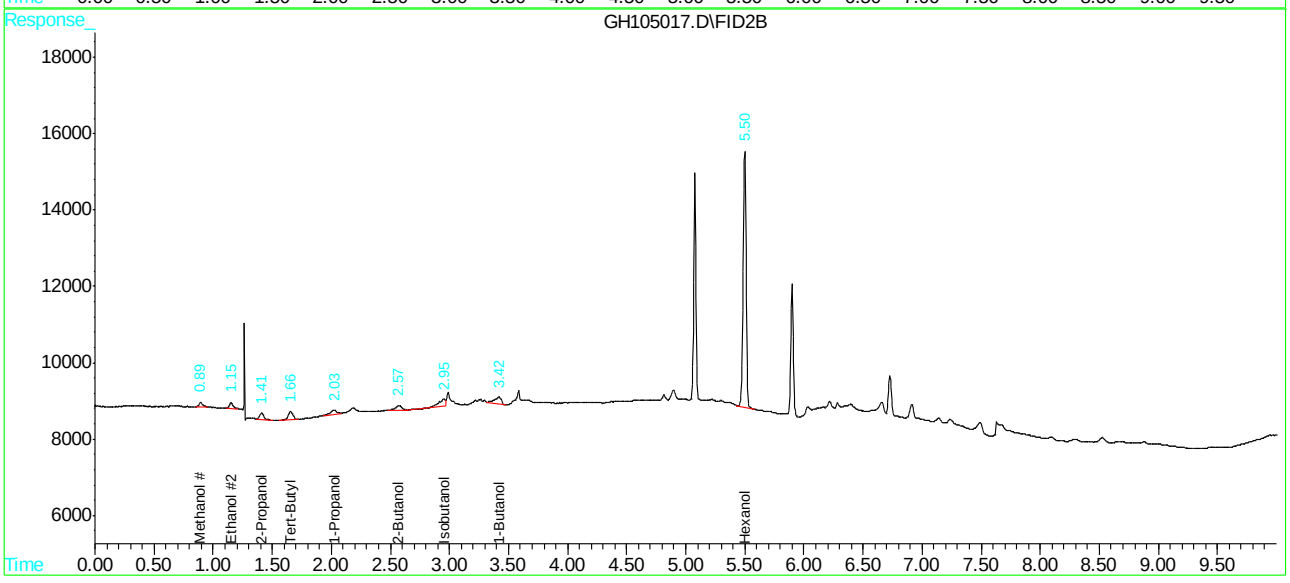
```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  8:50 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Manual Integration Approval Summary

Sample Number:	GGH5288-IC5288	**Method:**	SW846-8015C (DAI)
Lab FileID:	GH105017.D	**Analyst approved:**	05/18/16 09:10 Xu Liu
Injection Time:	05/17/16 16:14	**Supervisor approved:**	05/18/16 09:16 Owen McKenna

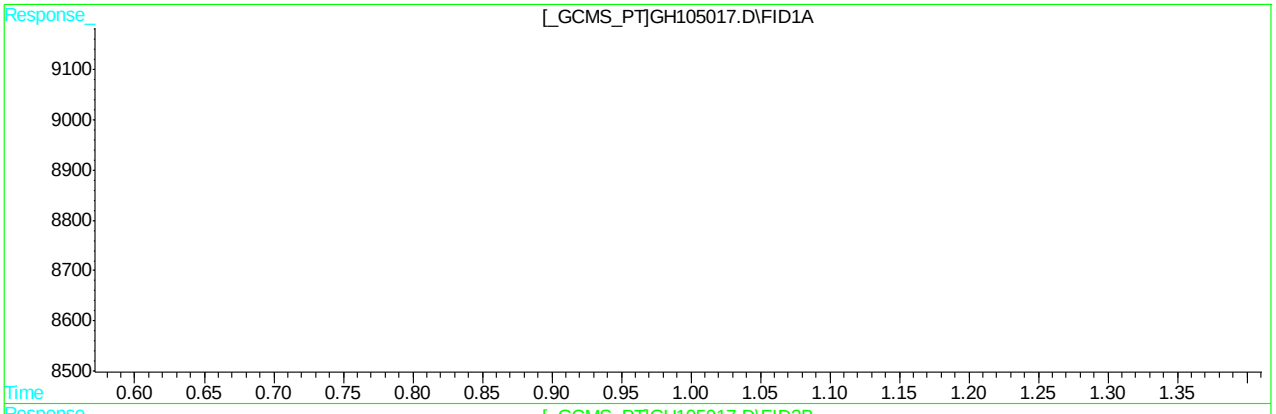
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	2	0.89	Poor instrument integration
Ethanol	64-17-5	2	1.15	Poor instrument integration
n-Propyl Alcohol	71-23-8	2	2.03	Poor instrument integration
sec-Butyl Alcohol	78-92-2	2	2.57	Poor instrument integration
sec-Butyl Alcohol	78-92-2	1	2.95	Poor instrument integration
n-Butyl Alcohol	71-36-3	2	3.42	Poor instrument integration

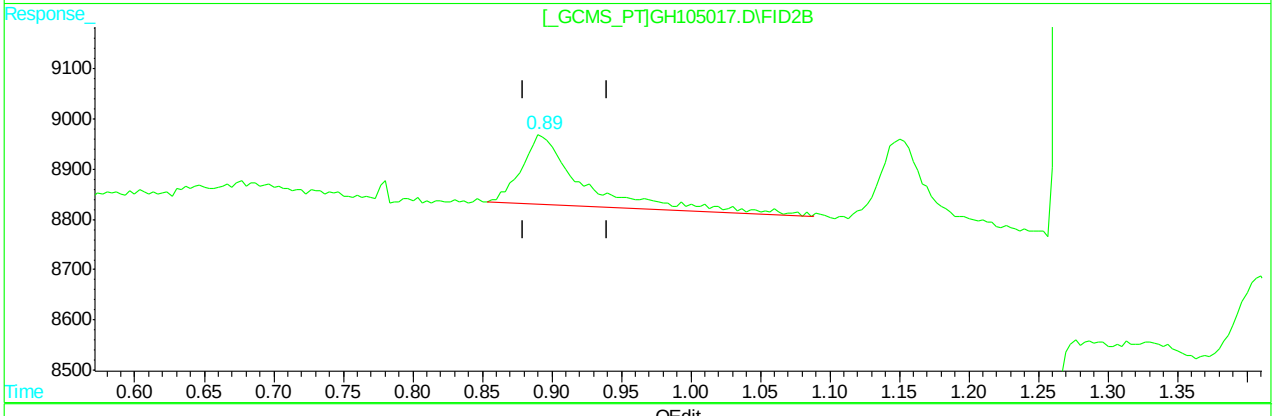
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.12min 115.427PPB

response 1784

(1) Methanol #2

0.89min 132.645PPB

response 4221

(+) = Expected Retention Time

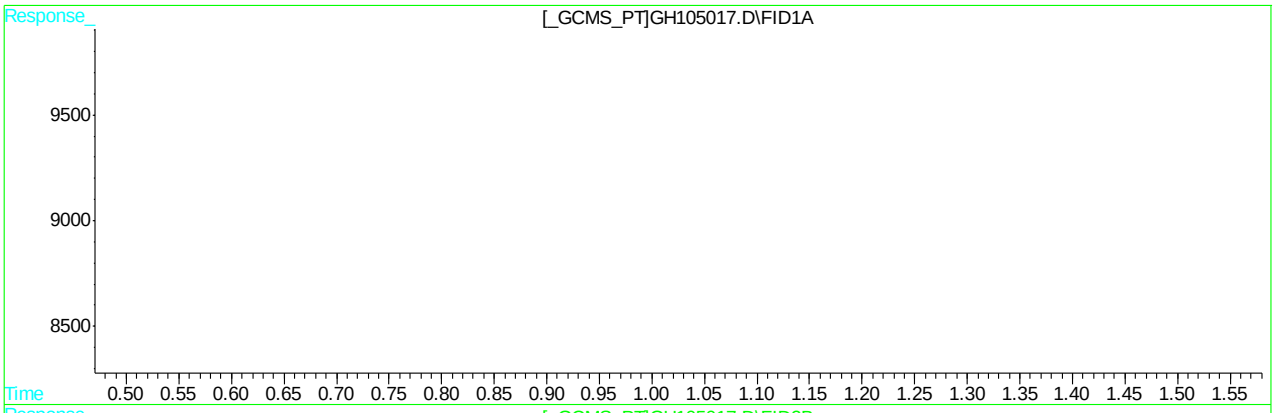
GH105017.D MGH5288.M Wed May 18 08:43:56 2016 GCGH

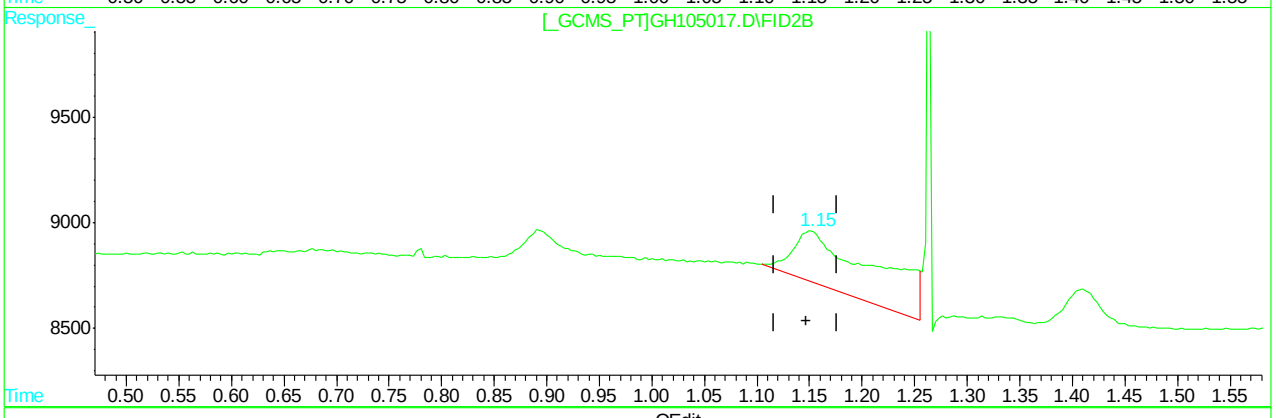
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.45min 110.763PPB

response 2099

(2) Ethanol #2

1.15min 367.751PPB

response 14557

(+) = Expected Retention Time

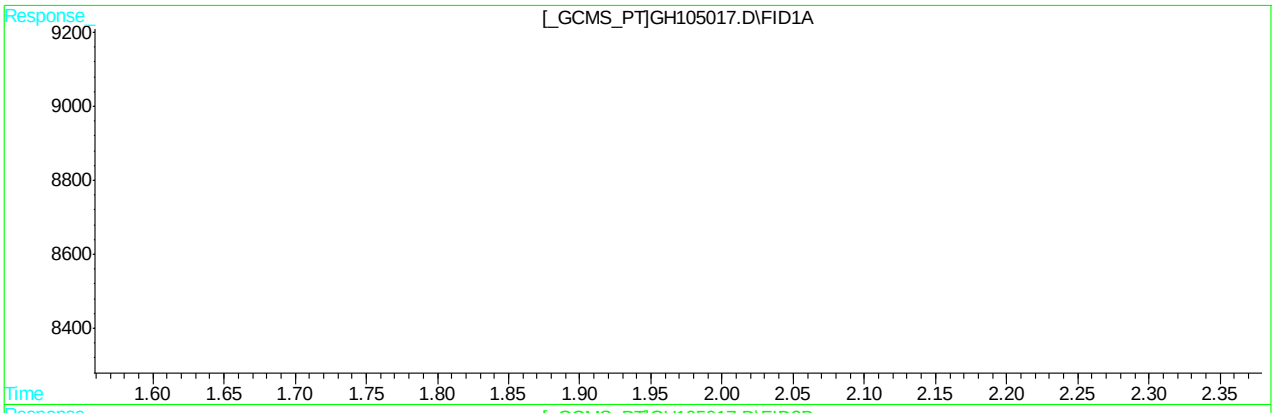
GH105017.D MGH5288.M Wed May 18 08:44:26 2016 GCGH

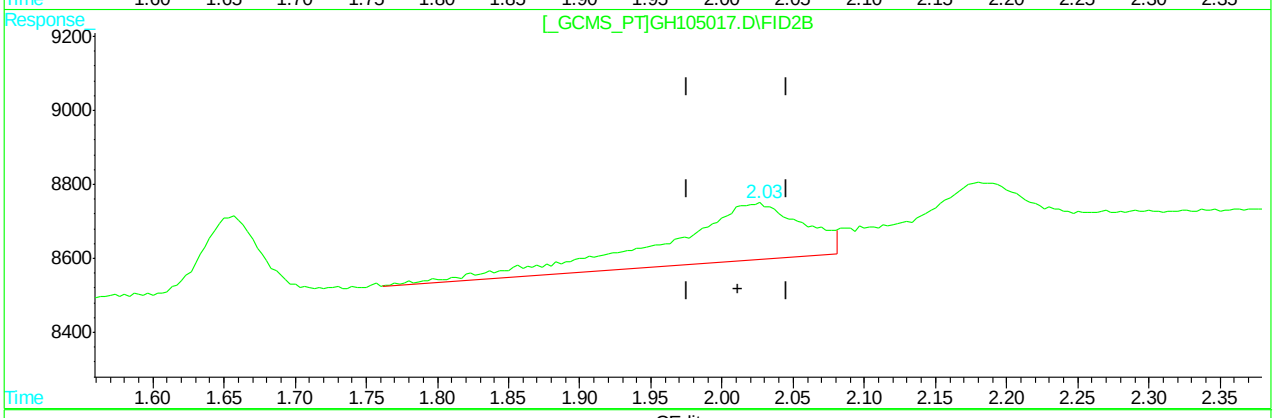
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.52min 89.885PPB

response 2187

(4) 1-Propanol #2

2.03min 209.050PPB

response 10460

(+) = Expected Retention Time

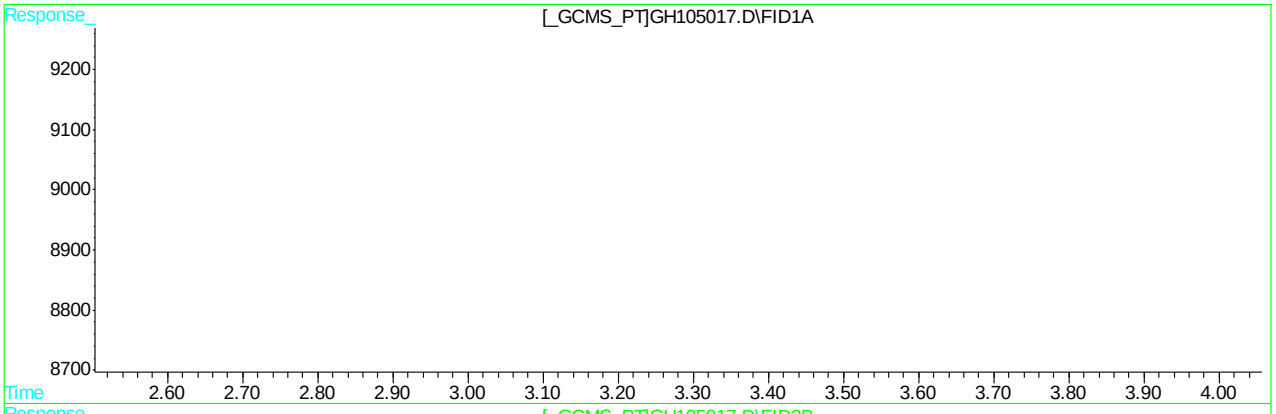
GH105017.D MGH5288.M Wed May 18 08:44:42 2016 GCGH

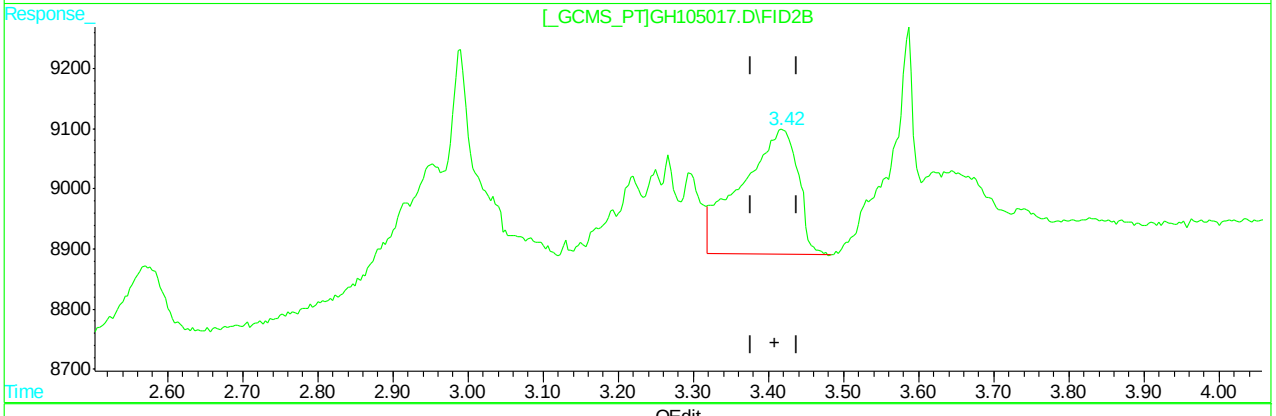
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.76min 105.546PPB

response 3014

(7) 1-Butanol #2

3.42min 167.388PPB

response 10970

(+) = Expected Retention Time

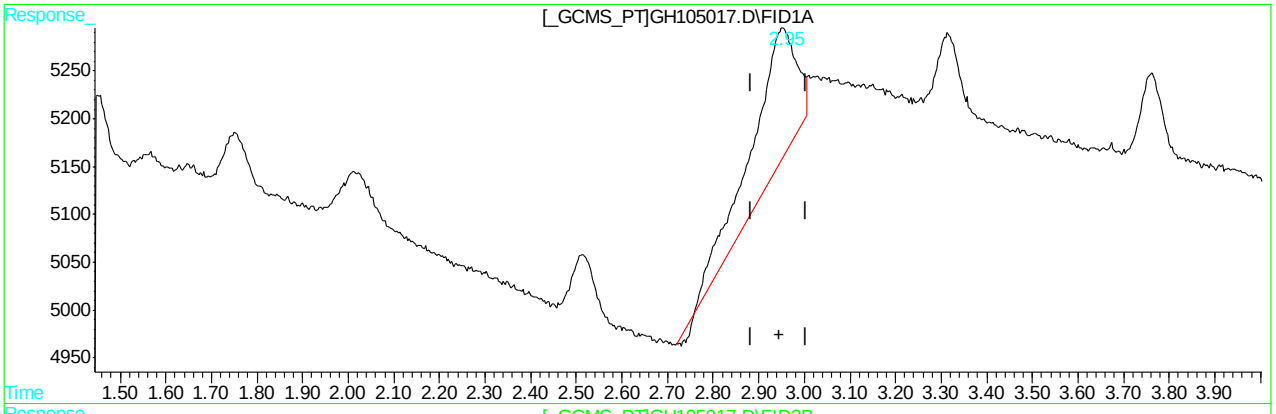
GH105017.D MGH5288.M Wed May 18 08:45:02 2016 GCGH

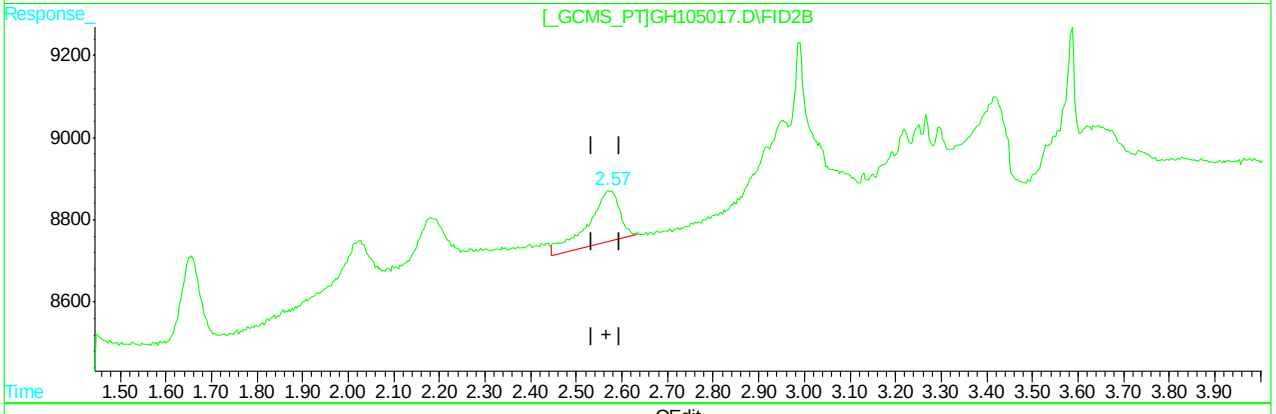
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.95min 395.696PPB

response 9232

(8) 2-Butanol #2

2.57min 109.800PPB

response 5921

(+) = Expected Retention Time

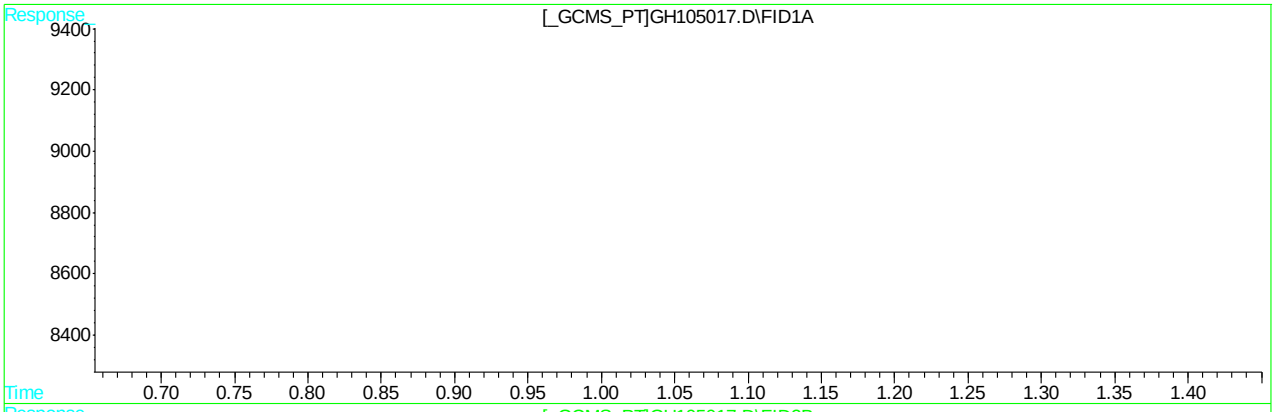
GH105017.D MGH5288.M Wed May 18 08:45:09 2016 GCGH

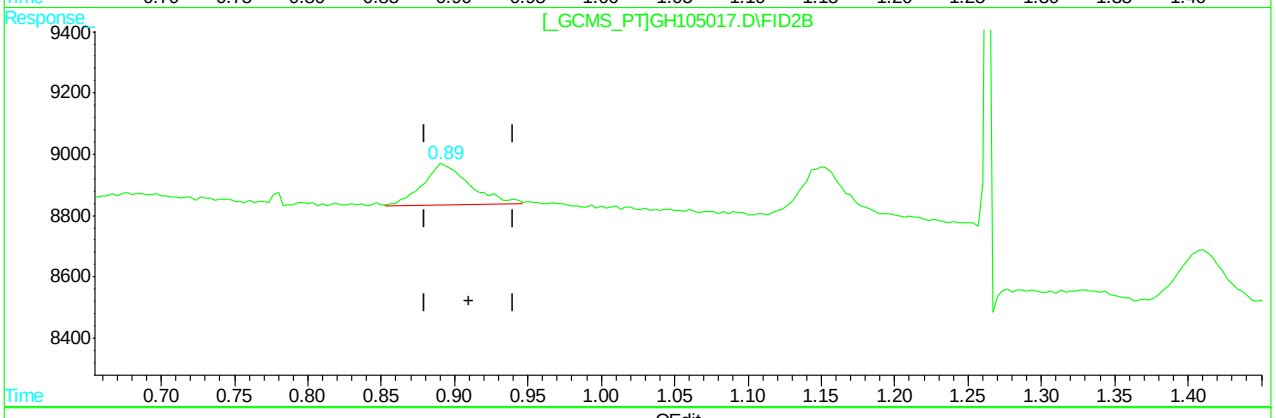
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

1.12min 115.427PPB

response 1784

(1) Methanol #2

0.89min 93.713PPB m

response 2982

(+) = Expected Retention Time

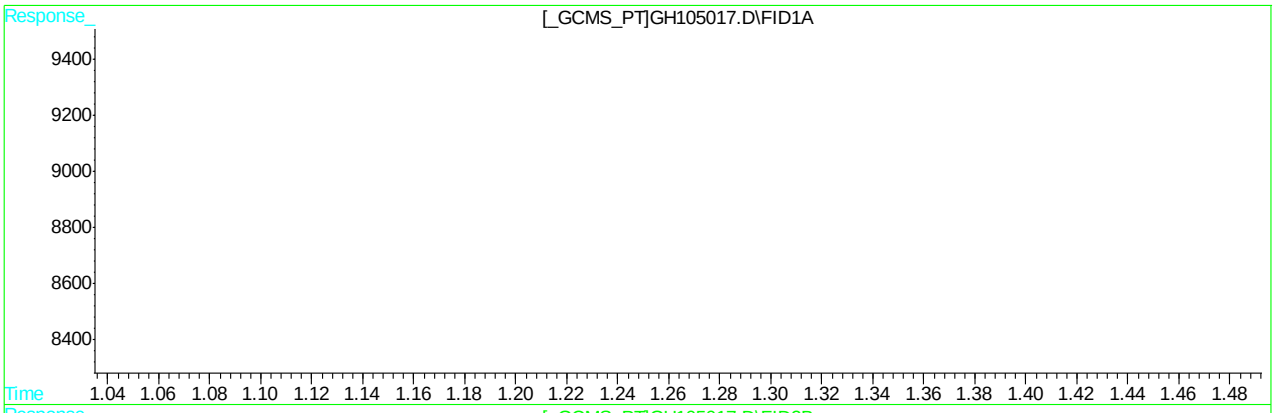
GH105017.D MGH5288.M Wed May 18 08:46:19 2016 GCGH

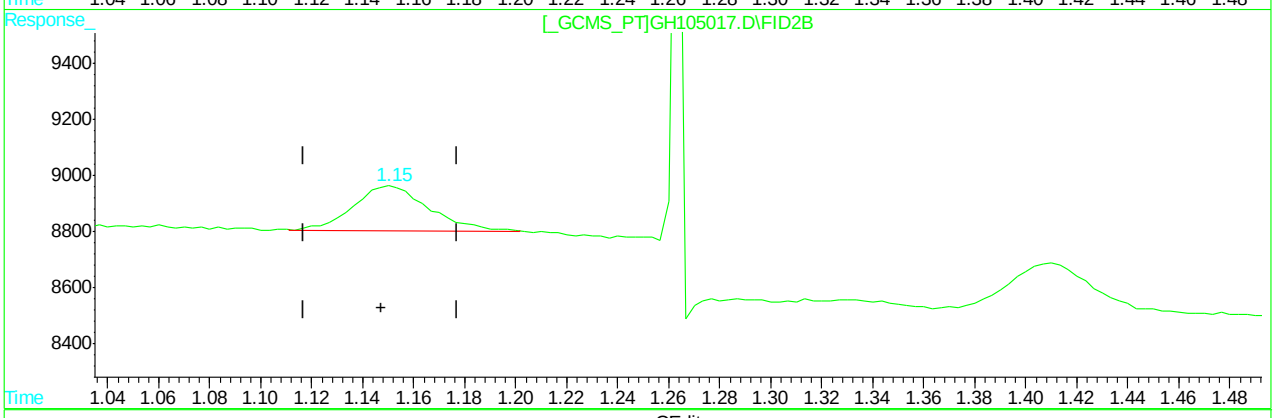
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Ethanol

1.45min 110.763PPB

response 2099

(2) Ethanol #2

1.15min 84.901PPB m

response 3361

(+) = Expected Retention Time

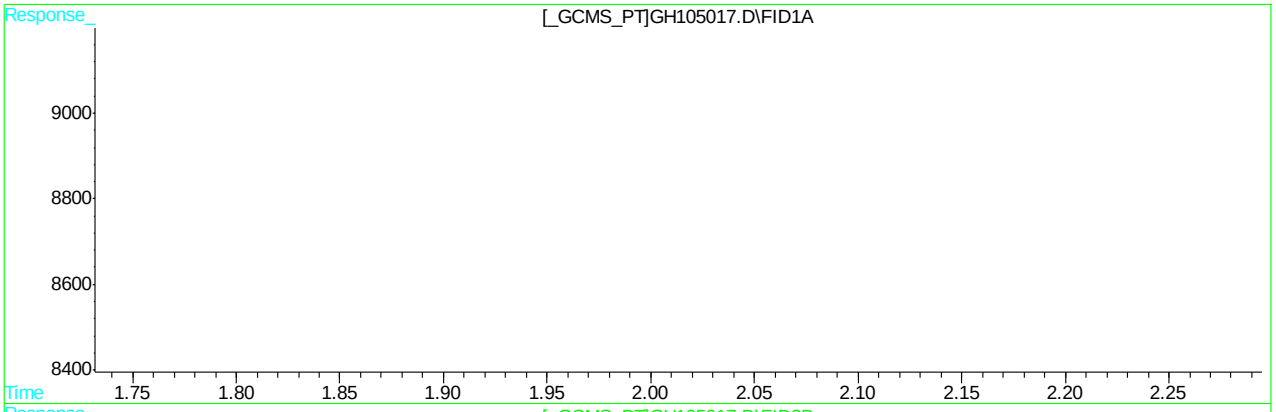
GH105017.D MGH5288.M Wed May 18 08:46:55 2016 GCGH

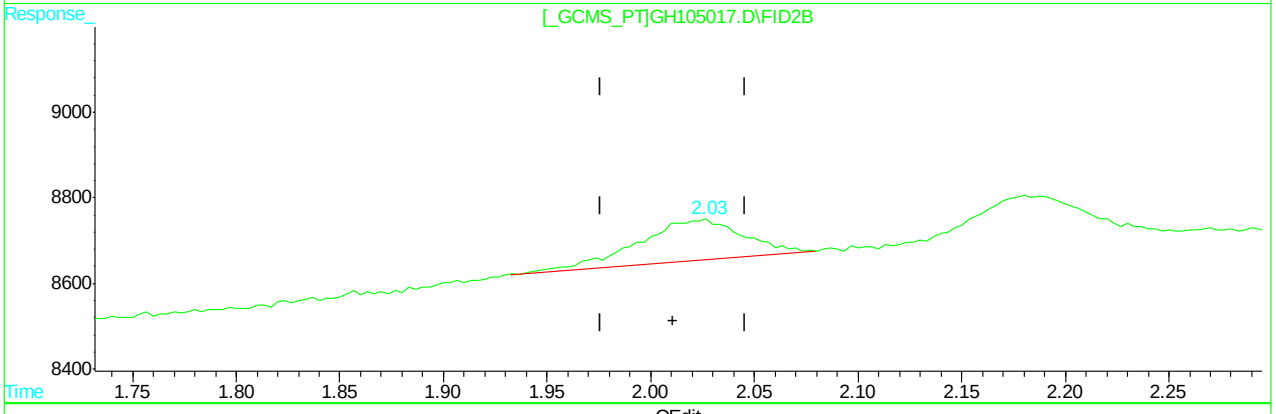
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.52min 89.885PPB

response 2187

(4) 1-Propanol #2

2.03min 69.117PPB m

response 3458

(+) = Expected Retention Time

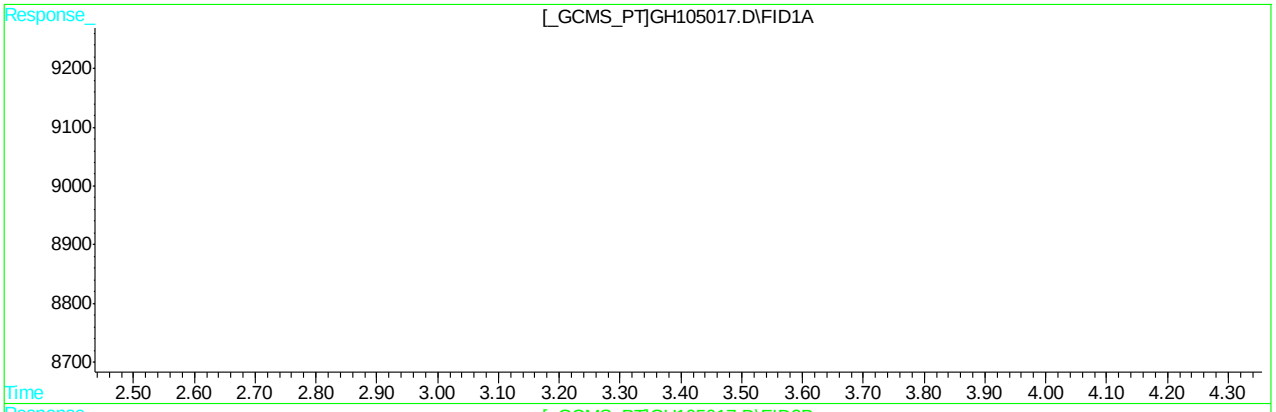
GH105017.D MGH5288.M Wed May 18 08:48:45 2016 GCGH

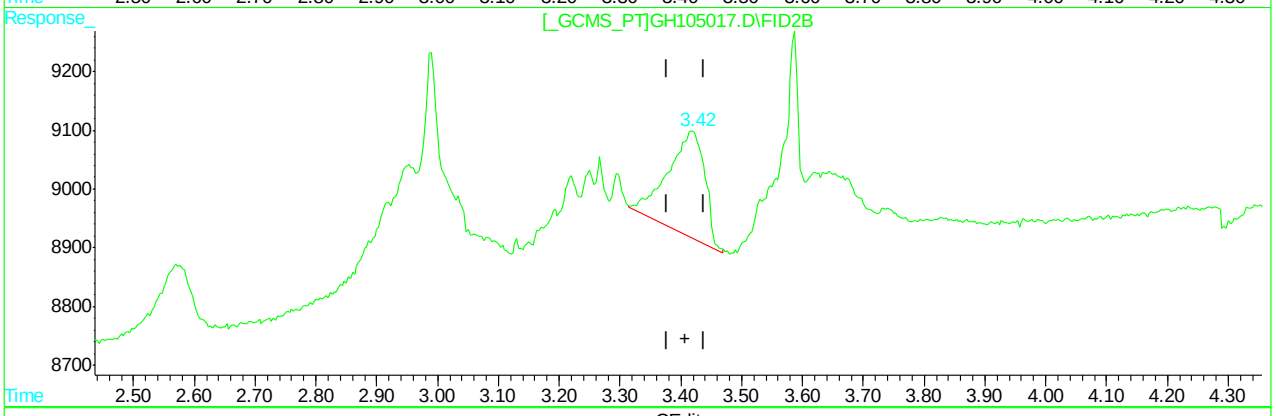
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(7) 1-Butanol

3.76min 105.546PPB

response 3014

(7) 1-Butanol #2

3.42min 113.606PPB m

response 7445

(+) = Expected Retention Time

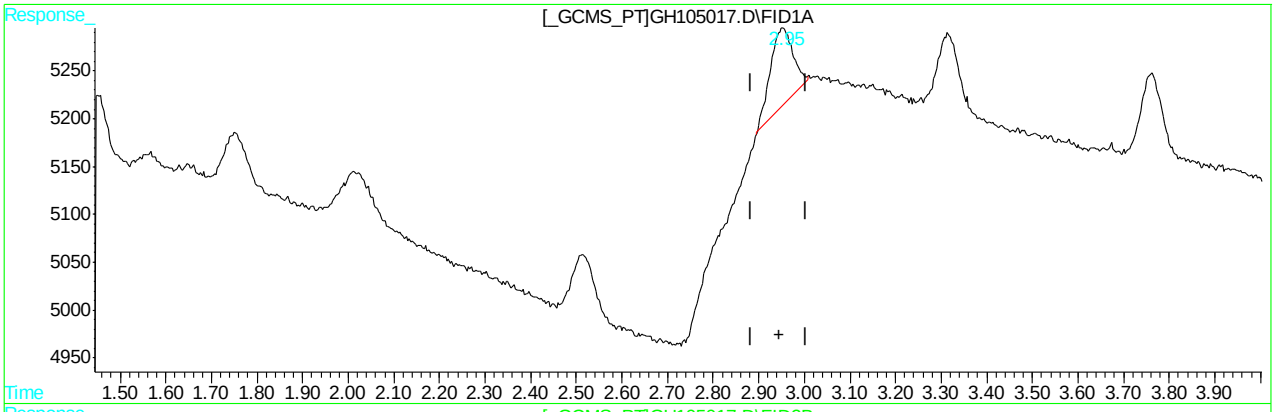
GH105017.D MGH5288.M Wed May 18 08:49:10 2016 GCGH

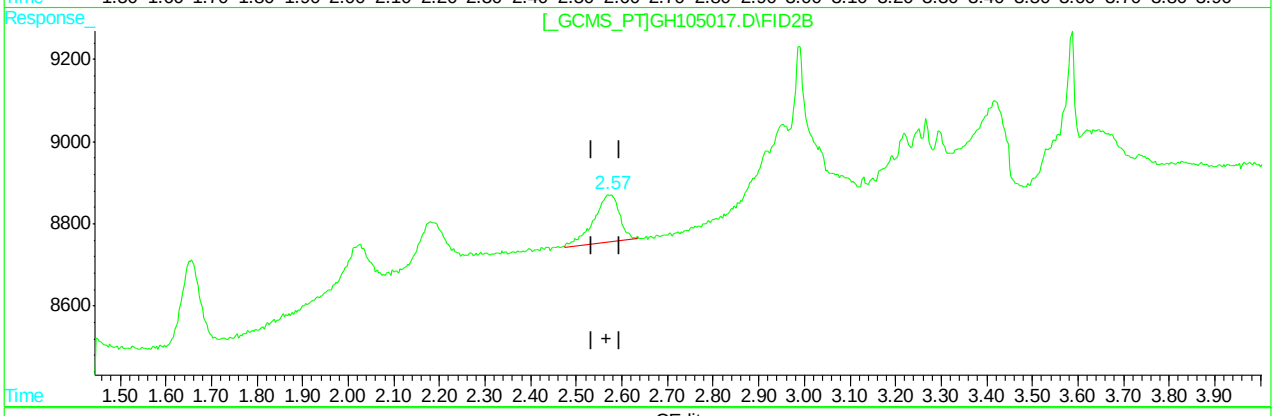
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH105017.D\FID1A.CH          Vial: 2
Acq On    : 17 May 2016   4:14 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105017.D\FID2B.CH          Vial: 2
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-100                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:37 2016  Quant Results File: MGH5288.RES


Method       : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:34:35 2016
Response via : Multiple Level Calibration
```





QEdit

(8) 2-Butanol

2.95min 121.739PPB m

response 2840

(8) 2-Butanol #2

2.57min 83.638PPB m

response 4510

(+) = Expected Retention Time

GH105017.D MGH5288.M Wed May 18 08:50:46 2016 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105018.D\FID2B.CH          Vial: 3
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:56 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	133226	309222	2149.239	2179.587
Spiked Amount	5000.000			Recovery	=	42.98%	43.59%
	Target Compounds						
1)	Methanol	1.12	0.90	7371	16974	487.375	523.867
2)	Ethanol	1.45	1.15	7403	20315	382.175	495.986
3)	Tert-Butyl Alcoh	2.02	1.65	13219	32642	459.462	504.499
4)	1-Propanol	2.52	2.01	11323	26078	450.160	484.442
5)	2-Propanol	1.75	1.41	8826	24643	428.510	541.309
6)	Isobutanol	3.32	2.95f	14018	31821	481.673	522.579
7)	1-Butanol	3.76	3.41	14489	37291	514.513	593.512
8)	2-Butanol	2.95	2.57	11839	27554	464.803	492.431

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

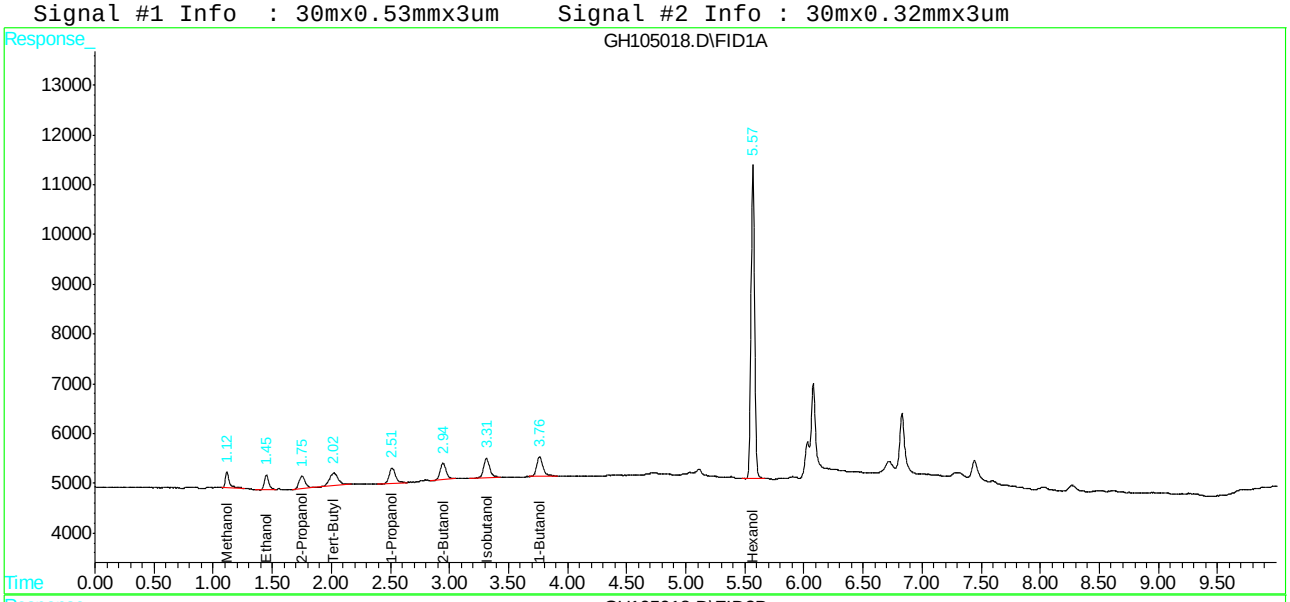
Quantitation Report (QT Reviewed)

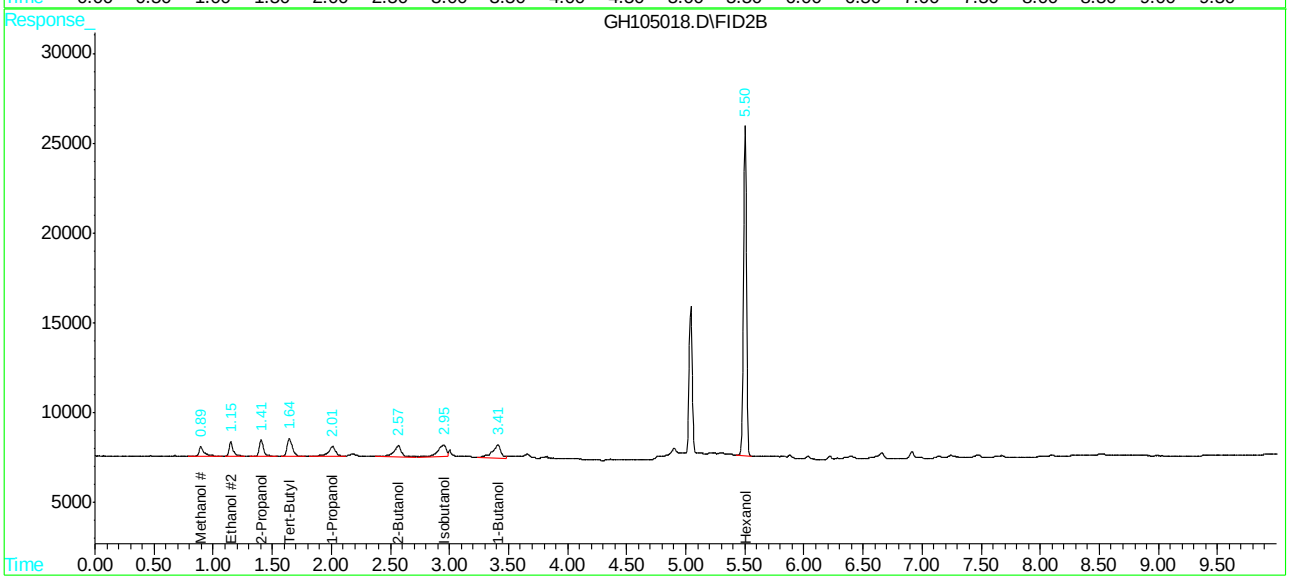
```
Data File : C:\HPCHEM\1\DATA\GH105018.D\FID1A.CH          Vial: 3
Acq On    : 17 May 2016   4:28 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105018.D\FID2B.CH          Vial: 3
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-500                                Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:23 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:56 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH Vial: 4
Acq On : 17 May 2016 4:43 pm Operator: XULIU
Sample : IC5288-1000 Inst : GCGH
Misc : GC48422,GGH5288,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID2B.CH Vial: 4
Acq On : 17 May 2016 4:57 pm Operator: XULIU
Sample : IC5288-1000 Inst : GCGH
Misc : GC48422,GGH5288,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: May 18 7:22 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Wed May 18 07:22:21 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : 30mx0.53mmx3um Signal #2 Info : 30mx0.32mmx3um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.51	274171	622051	4543.104	4492.586
Spiked Amount	5000.000			Recovery	=	90.86%	89.85%
	Target Compounds						
1)	Methanol	1.12	0.92	16166	29685	1087.516	897.349
2)	Ethanol	1.45	1.17f	18855	36354	966.928	863.337
3)	Tert-Butyl Alcoh	2.01	1.66	28949	63750	1007.774	981.673
4)	1-Propanol	2.51	2.02	25248	52807	1004.669	976.309
5)	2-Propanol	1.75	1.42	20497	43421	993.892	942.889
6)	Isobutanol	3.31	2.94	29498	59602	1017.007	973.641
7)	1-Butanol	3.76	3.42	29408	73648	1055.991	1224.889
8)	2-Butanol	2.94	2.57	25576	58599	1005.126	1059.749

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH105019.D MGH5288.M Wed May 18 08:51:52 2016 GCGH

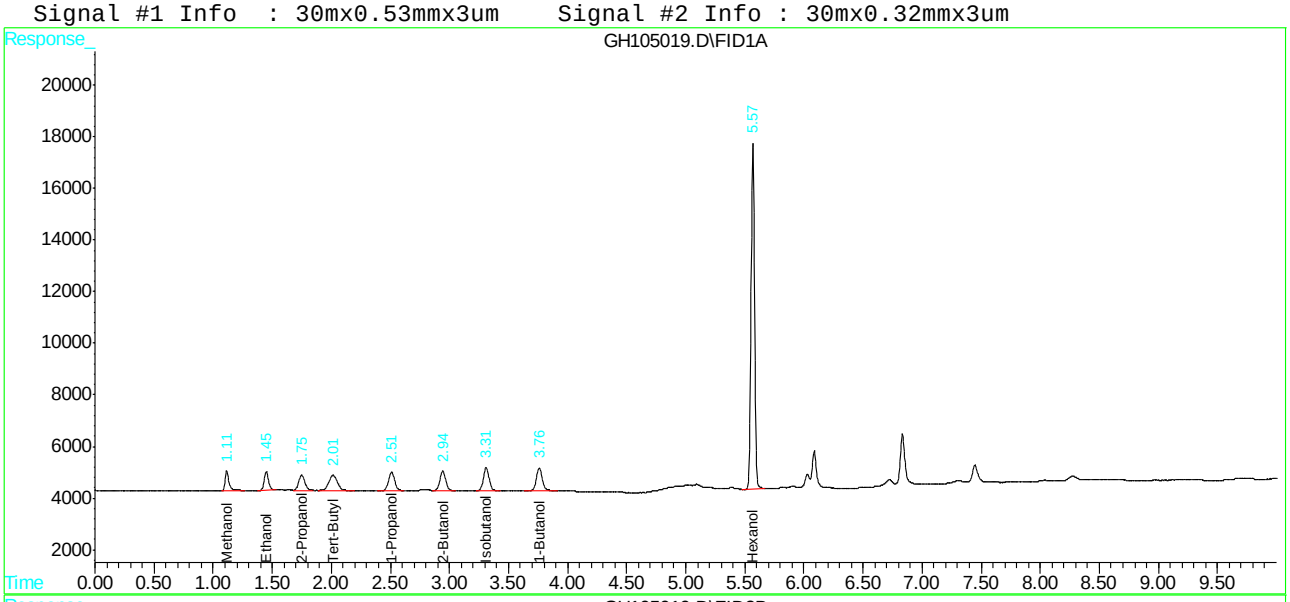
Quantitation Report (QT Reviewed)

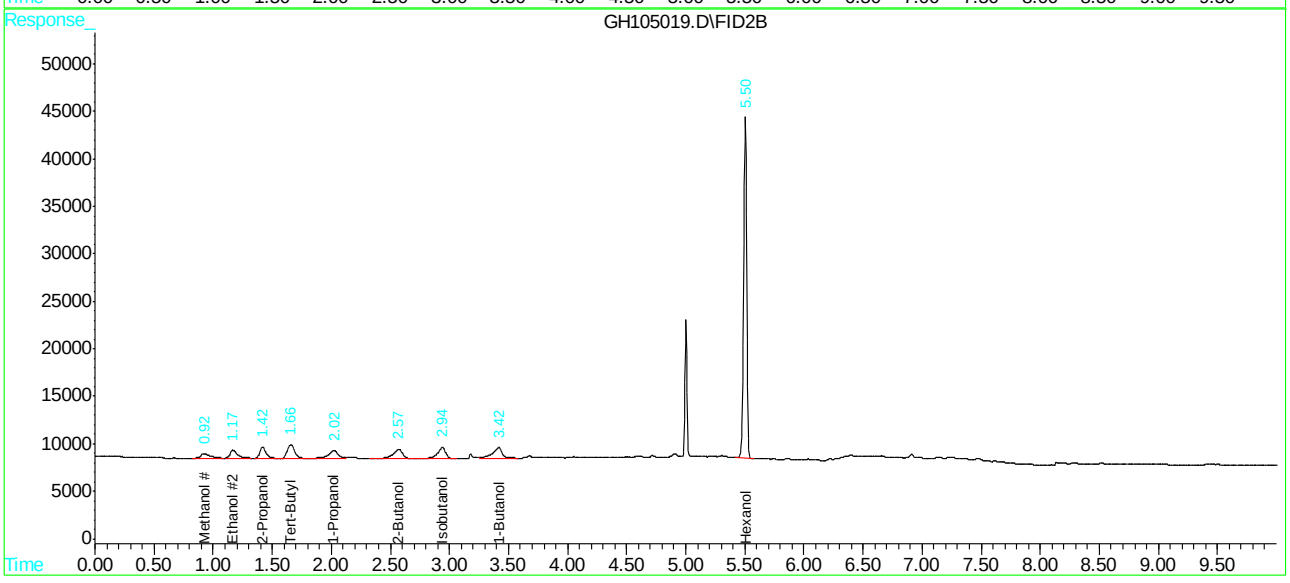
```
Data File : C:\HPCHEM\1\DATA\GH105019.D\FID1A.CH          Vial: 4
Acq On    : 17 May 2016   4:43 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105019.D\FID2B.CH          Vial: 4
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : IC5288-1000                               Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:22 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 07:22:21 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105020.D\FID2B.CH          Vial: 5
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	345209	794669	4511.712	4828.644
Spiked Amount	5000.000			Recovery	=	90.23%	96.57%
	Target Compounds						
1)	Methanol	1.12	0.89	77443	173699	5243.603	8544.414 #
2)	Ethanol	1.45	1.15	99445	217347	5314.412	6840.346
3)	Tert-Butyl Alcoh	2.01	1.65	142996	332018	5237.321	5085.028
4)	1-Propanol	2.51	2.01	128385	274702	5760.408	5575.380
5)	2-Propanol	1.75	1.41	105046	236654	5062.425	5660.735
6)	Isobutanol	3.31	2.94	147383	311633	5362.003	5023.429
7)	1-Butanol	3.76	3.42	143097	319465	5843.923	6171.241
8)	2-Butanol	2.94	2.57	129413	280976	5135.753	5686.138

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21229

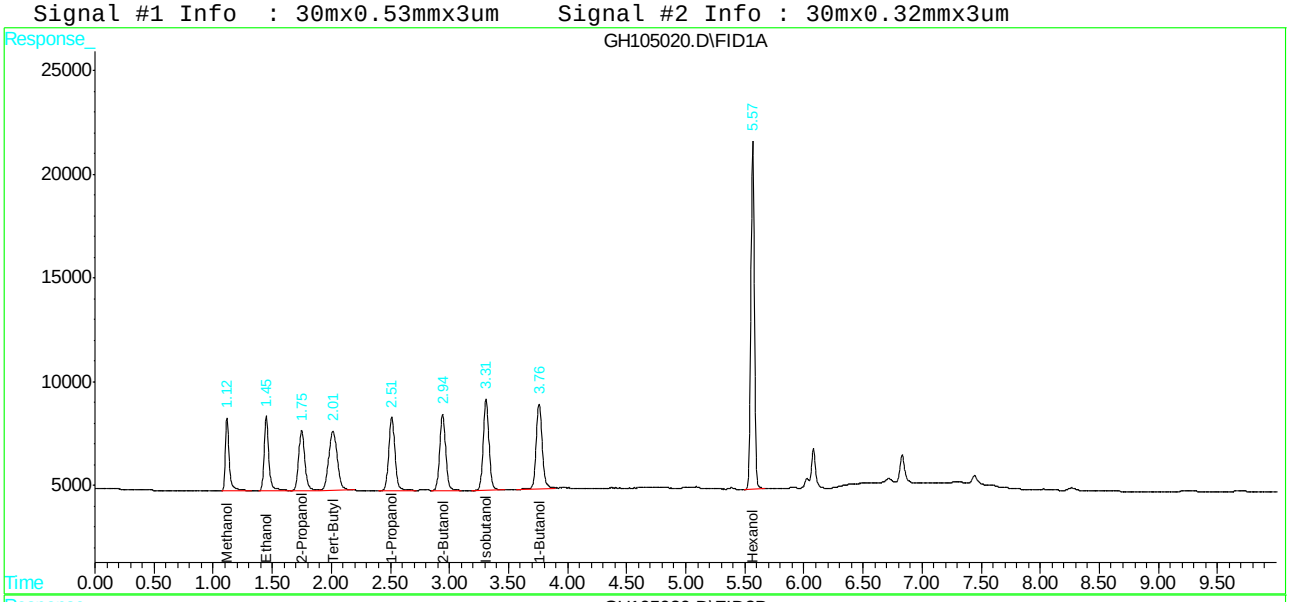
Quantitation Report (QT Reviewed)

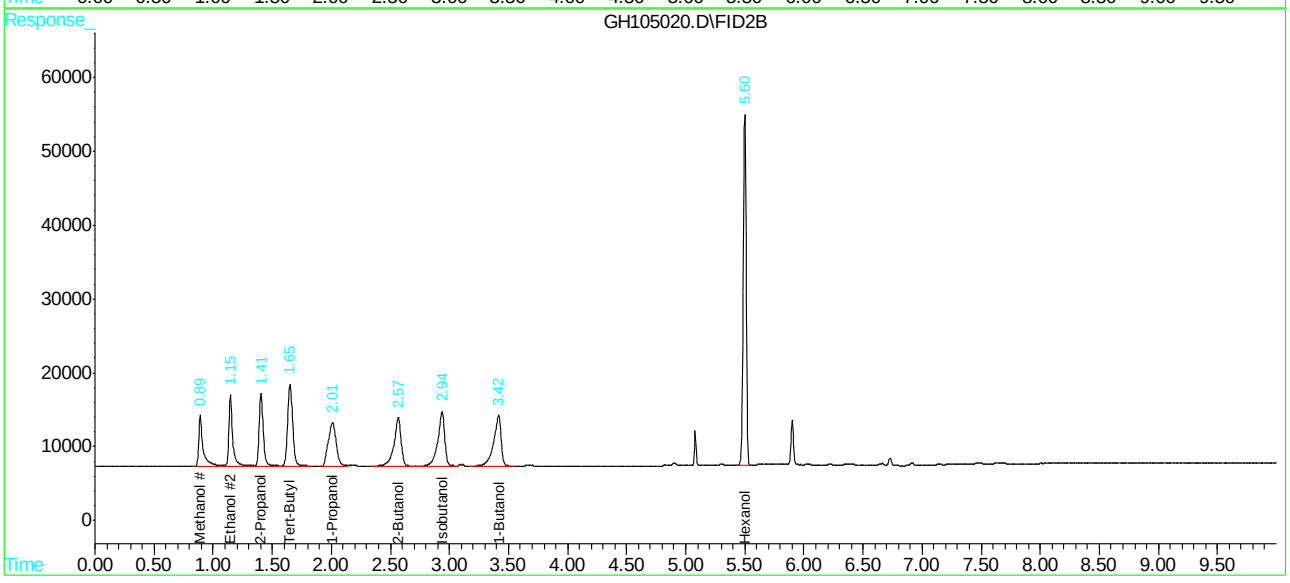
```
Data File : C:\HPCHEM\1\DATA\GH105020.D\FID1A.CH          Vial: 5
Acq On    : 17 May 2016   4:57 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105020.D\FID2B.CH          Vial: 5
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : ICC5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





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Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105021.D\FID2B.CH          Vial: 6
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	355196	814101	4642.238	4946.724
Spiked Amount	5000.000			Recovery	=	92.84%	98.93%
	Target Compounds						
1)	Methanol	1.12	0.89	157448	346407	10660.697	17040.107 #
2)	Ethanol	1.45	1.15	202728	432745	10833.939	13619.358
3)	Tert-Butyl Alcoh	2.02	1.65	294805	663970	10797.389	10169.042
4)	1-Propanol	2.51	2.02	257894	549862	11571.266	11160.064
5)	2-Propanol	1.75	1.41	213932	472748	10309.866	11308.075
6)	Isobutanol	3.31	2.95	298782	632695	10870.134	10198.859
7)	1-Butanol	3.76	3.41	289038	604299	11803.967	11673.499
8)	2-Butanol	2.94	2.57	262599	566046	10421.277	11455.123

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21229

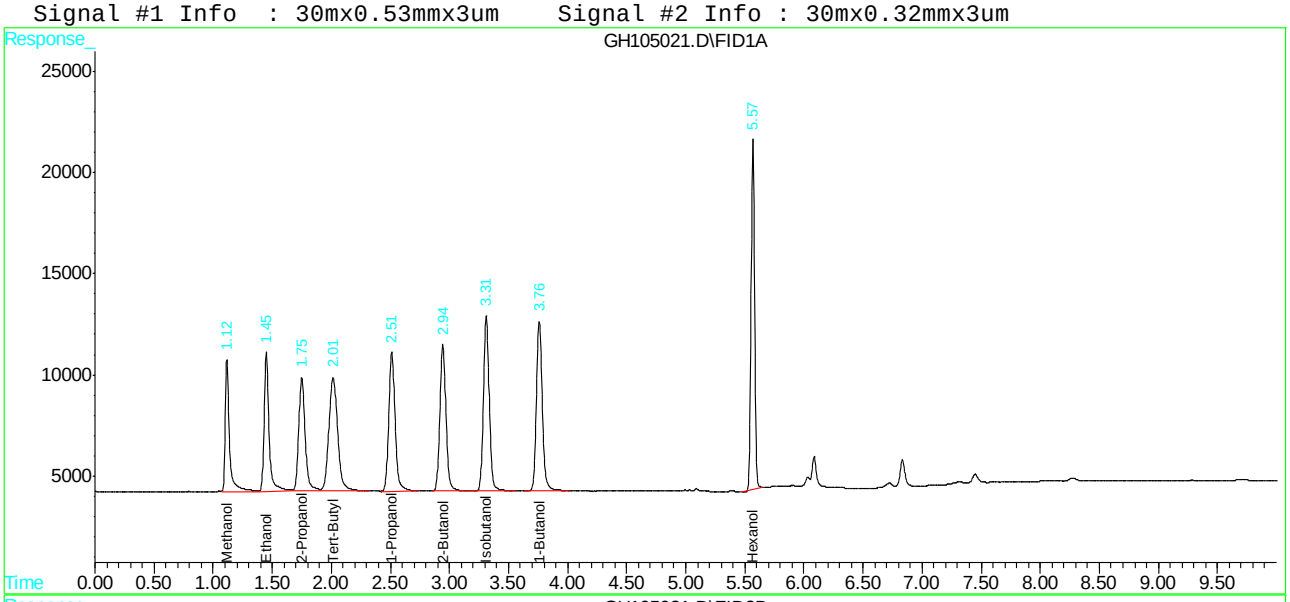
Quantitation Report (QT Reviewed)

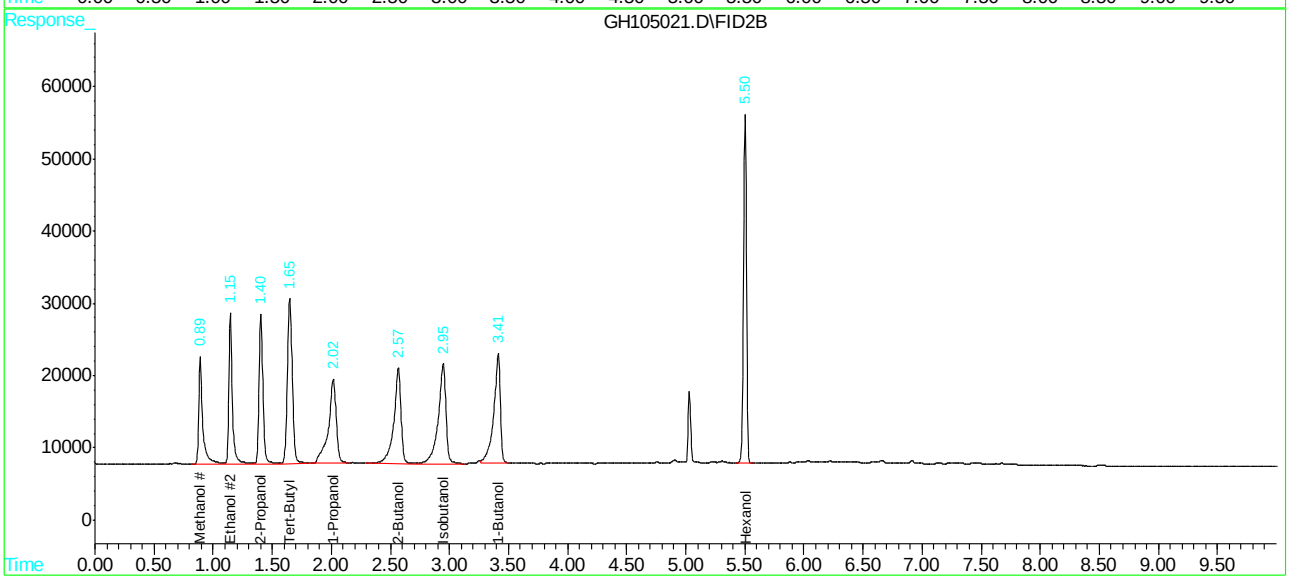
```
Data File : C:\HPCHEM\1\DATA\GH105021.D\FID1A.CH          Vial: 6
Acq On    : 17 May 2016   5:19 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105021.D\FID2B.CH          Vial: 6
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-10000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:09 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105022.D\FID2B.CH          Vial: 7
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	412961	947054	5397.192	5754.582
Spiked Amount	5000.000			Recovery	=	107.94%	115.09%
	Target Compounds						
1)	Methanol	1.12	0.89	720543	1576706	48787.500	77559.774 #
2)	Ethanol	1.45	1.15	934936	1996365	49963.655	62829.557
3)	Tert-Butyl Alcoh	2.02	1.65	1362114	3066977	49888.133	46972.339
4)	1-Propanol	2.51	2.02	1197382	2577415	53724.608	52311.489
5)	2-Propanol	1.75	1.41	990575	2181490	47738.100	52180.934
6)	Isobutanol	3.31	2.94	1369639	2883211	49829.464	46476.511
7)	1-Butanol	3.76	3.42	1316221	2839006	53752.804	54842.255
8)	2-Butanol	2.94	2.57	1212229	2632402	48107.436	53272.148

```
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH105022.D  MGH5288.M      Wed May 18 08:53:10 2016      GCGH
```

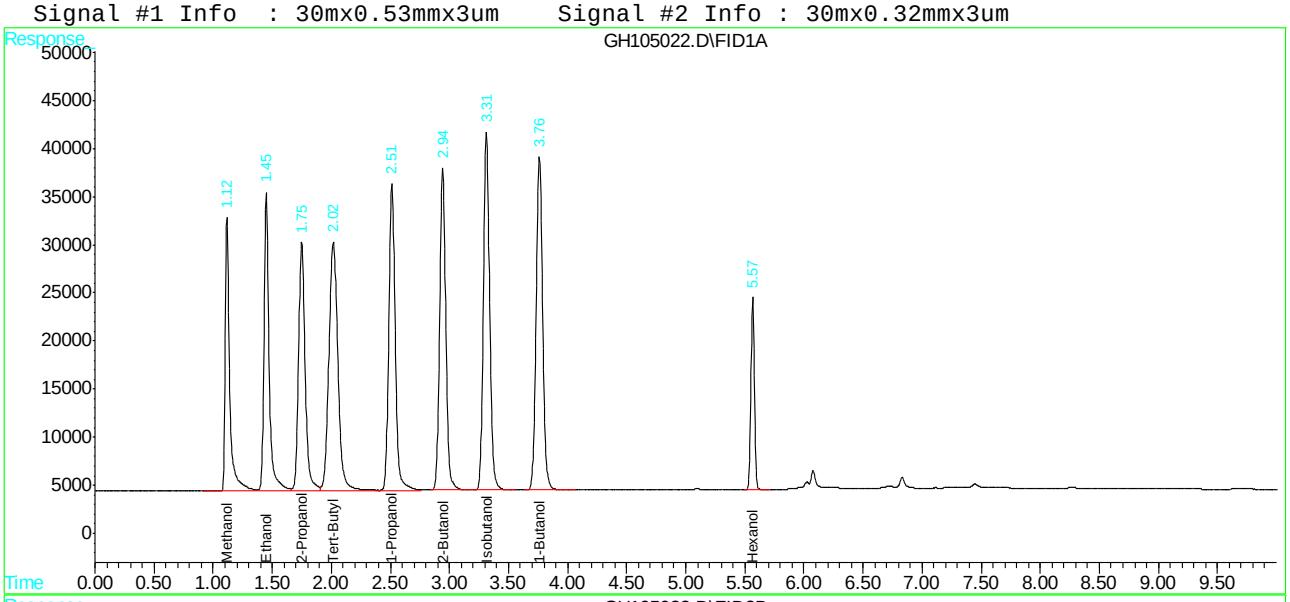
Quantitation Report (QT Reviewed)

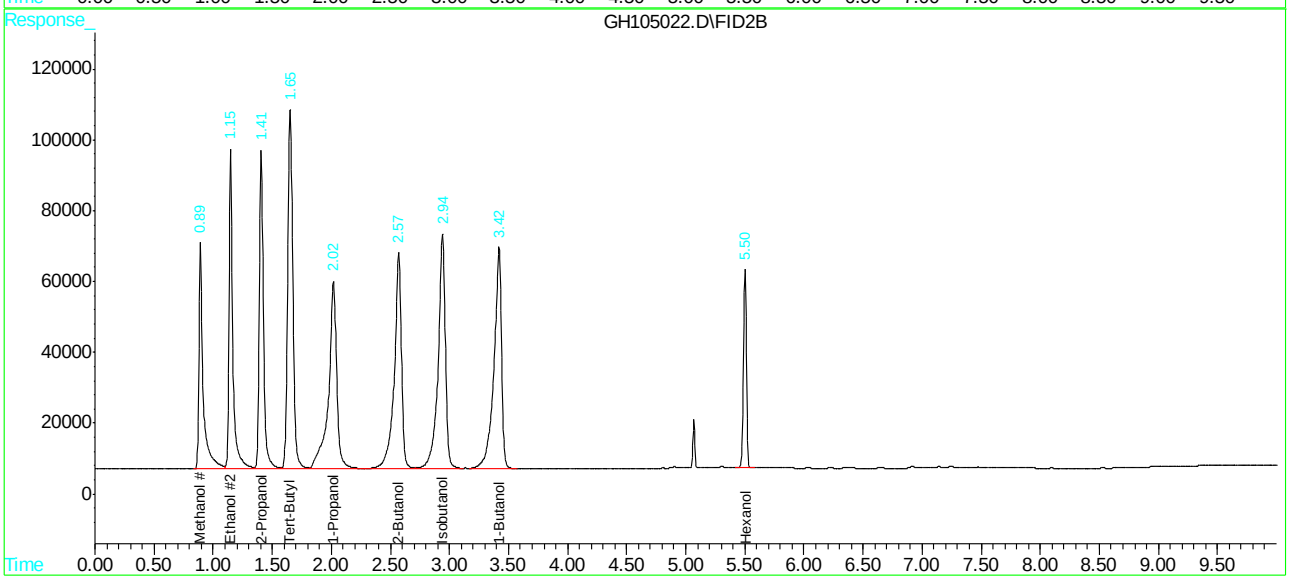
```
Data File : C:\HPCHEM\1\DATA\GH105022.D\FID1A.CH          Vial: 7
Acq On    : 17 May 2016   5:33 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105022.D\FID2B.CH          Vial: 7
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-50000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105023.D\FID2B.CH          Vial: 8
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	259897	594005	3396.729	3609.352
	Spiked Amount 5000.000			Recovery	=	67.93%	72.19%
	Target Compounds						
1)	Methanol	1.12	0.89	1381464	3140971	93538.113	154507.580 #
2)	Ethanol	1.45	1.15	1913963	4176473	102283.537	131441.900
3)	Tert-Butyl Alcoh	2.02	1.66	2957875	6562015	108333.721	100500.651
4)	1-Propanol	2.51	2.03	2510870	5487726	112658.677	111379.470
5)	2-Propanol	1.76	1.41	2027830	4596795	97725.857	109954.692
6)	Isobutanol	3.32	2.96f	2927116	6160124	106492.774	99299.394
7)	1-Butanol	3.76	3.42	2754661	5940276	112496.937	114750.761
8)	2-Butanol	2.95	2.57	2539551	5573181	100782.352	112784.937

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

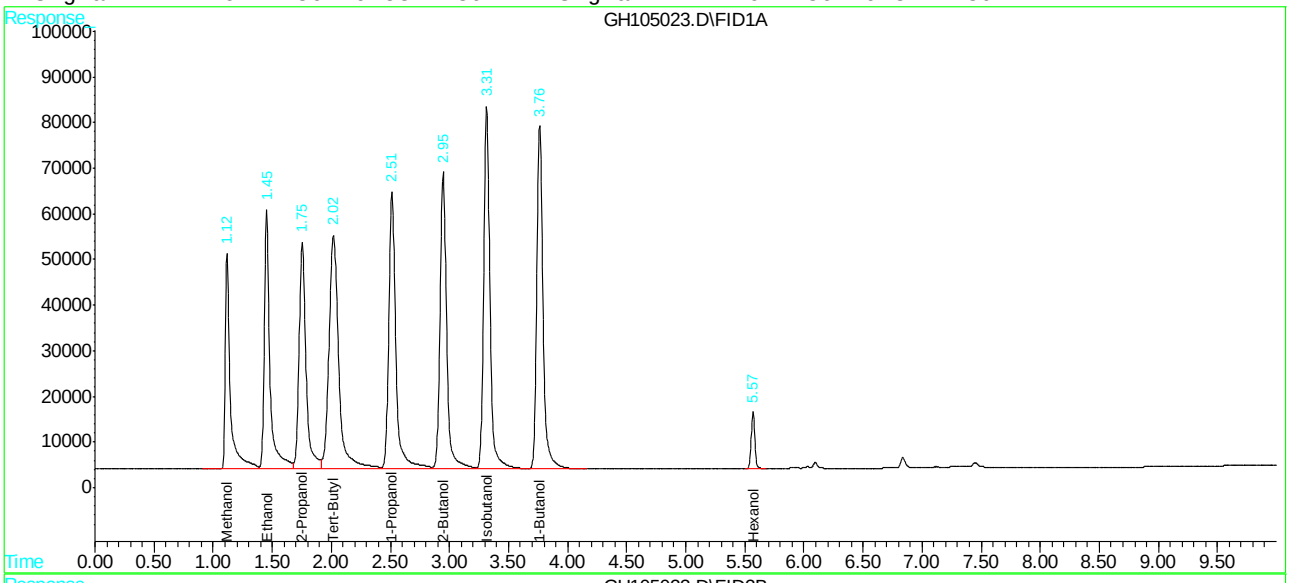
Quantitation Report (QT Reviewed)

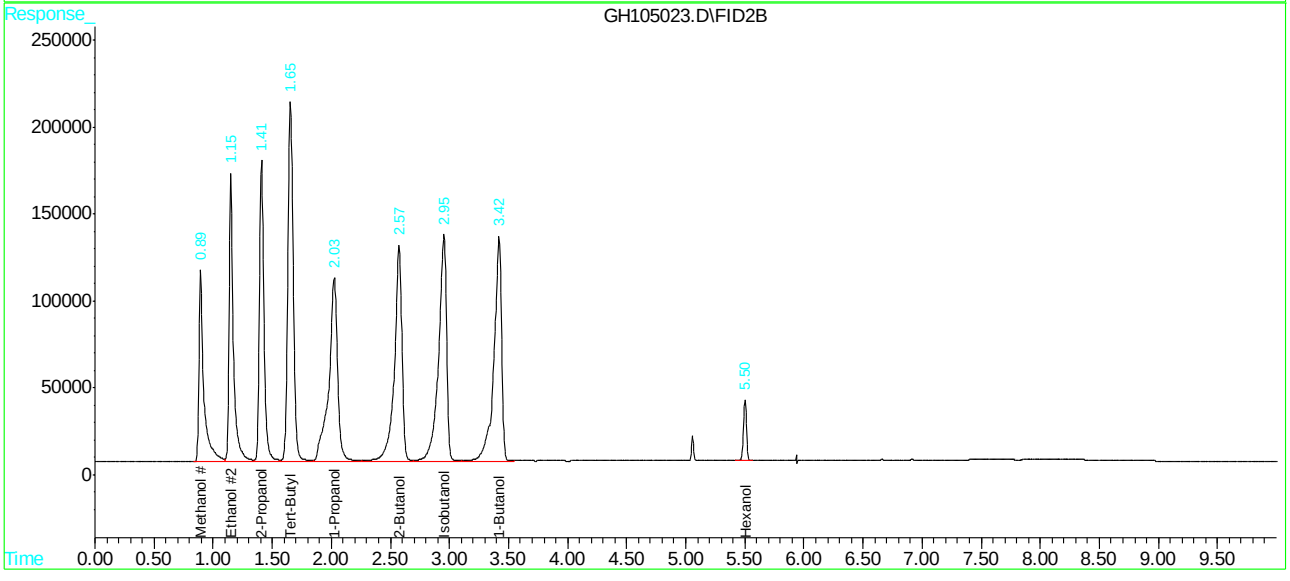
```
Data File : C:\HPCHEM\1\DATA\GH105023.D\FID1A.CH          Vial: 8
Acq On    : 17 May 2016   5:48 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105023.D\FID2B.CH          Vial: 8
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : IC5288-100000                             Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  7:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Tue May 17 15:45:13 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH          Vial: 9
Acq On    : 17 May 2016   6:24 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  9:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.50	349710	790800	5173.481	5090.525
Spiked Amount	5000.000			Recovery	=	103.47%	101.81%
	Target Compounds						
1)	Methanol	1.12	0.90	65127	172731	4212.940	5355.287
2)	Ethanol	1.45	1.16	100143	226641	5284.554	5685.787
3)	Tert-Butyl Alcoh	2.02	1.66	149854	332921	5288.674	5236.015
4)	1-Propanol	2.52	2.02	127682	285106	5248.735	5607.628
5)	2-Propanol	1.75	1.41	105368	238229	5286.625	5261.345
6)	Isobutanol	3.31	2.94	151110	333033	5252.180	5439.828
7)	1-Butanol	3.76	3.42	145592	326188	5097.649	4929.542
8)	2-Butanol	2.95	2.57	133016	304299	5188.956	5605.638

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

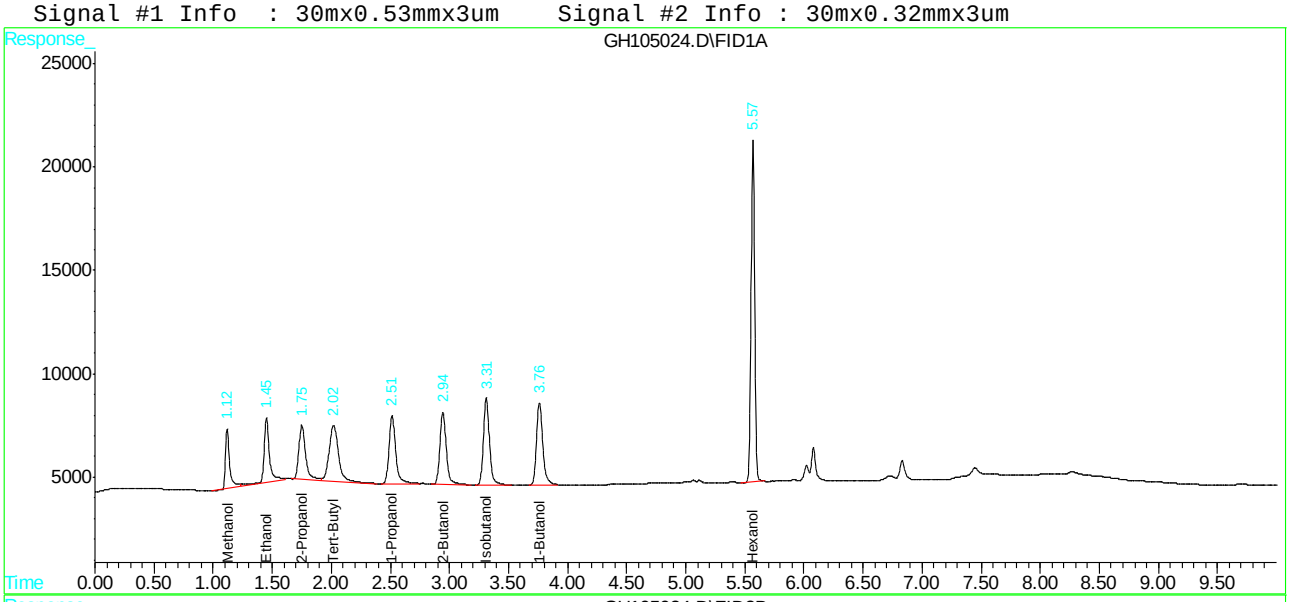
Quantitation Report (QT Reviewed)

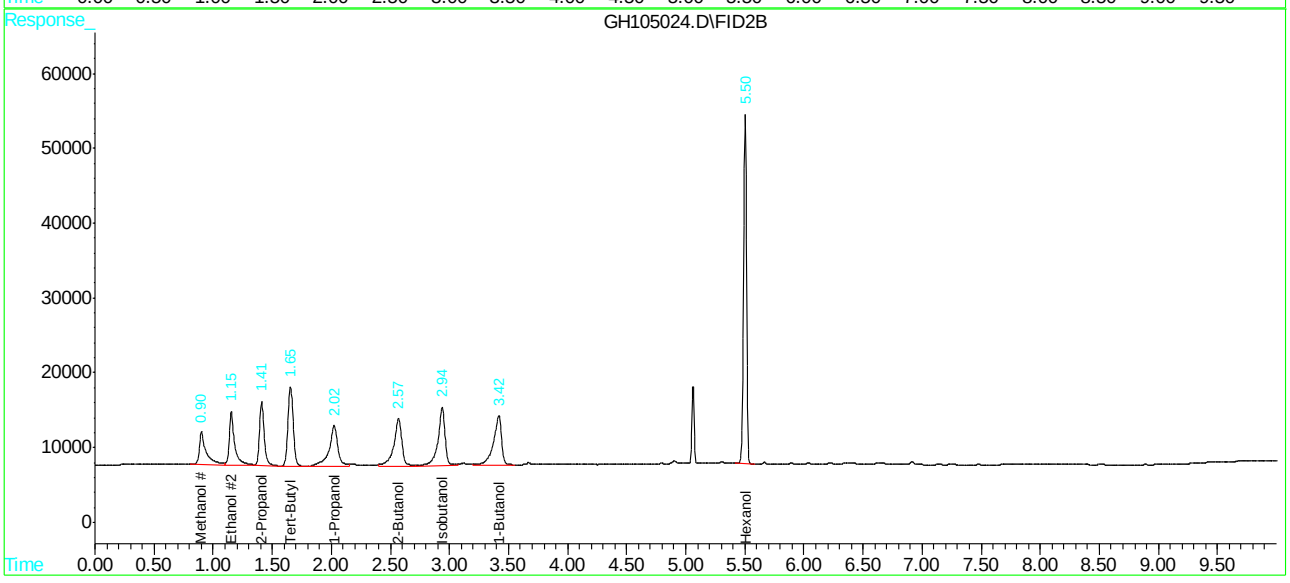
```
Data File : C:\HPCHEM\1\DATA\GH105024.D\FID1A.CH          Vial: 9
Acq On    : 17 May 2016   6:02 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105024.D\FID2B.CH          Vial: 9
Acq On    : 17 May 2016   6:24 pm                     Operator: XULIU
Sample    : ICV5288-5000                              Inst    : GCGH
Misc      : GC48422,GGH5288,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: May 18  9:07 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed May 18 08:55:49 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105305.D\FID1A.CH          Vial: 92
Acq On    :  1 Jun 2016   7:49 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105305.D\FID2B.CH          Vial: 92
Acq On    :  1 Jun 2016   8:04 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1  9:38 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:38:37 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.47	310137	714620	4588.055	4600.136
Spiked Amount	5000.000			Recovery	=	91.76%	92.00%
	Target Compounds						
1)	Methanol	1.13	0.88	75360	159874	4874.897	4956.683
2)	Ethanol	1.46	1.14	100831	217759	5320.851	5462.967
3)	Tert-Butyl Alcoh	2.03	1.63	156173	365539	5511.714	5749.012
4)	1-Propanol	2.52	1.98	143869	288244	5914.159	5669.358
5)	2-Propanol	1.76	1.39	105476	246802	5292.032	5450.679
6)	Isobutanol	3.32	2.92	170909	342043	5940.338	5587.008
7)	1-Butanol	3.77	3.40	157313	325655	5508.048	4921.485
8)	2-Butanol	2.95	2.55	144199	305417	5625.190	5626.233

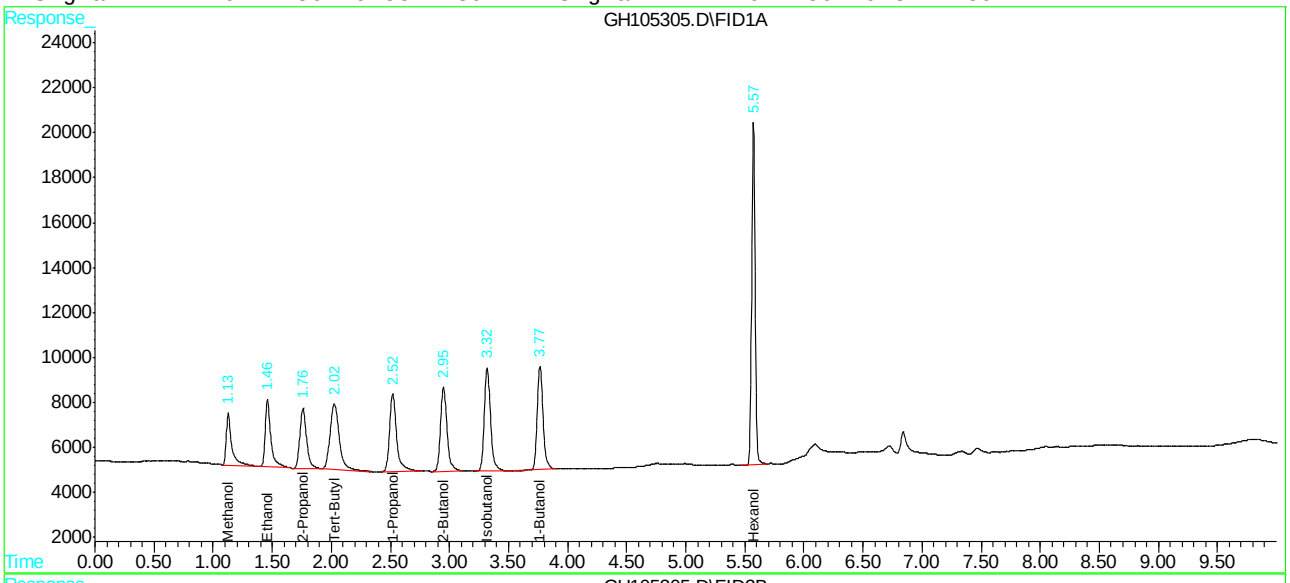
Quantitation Report (QT Reviewed)

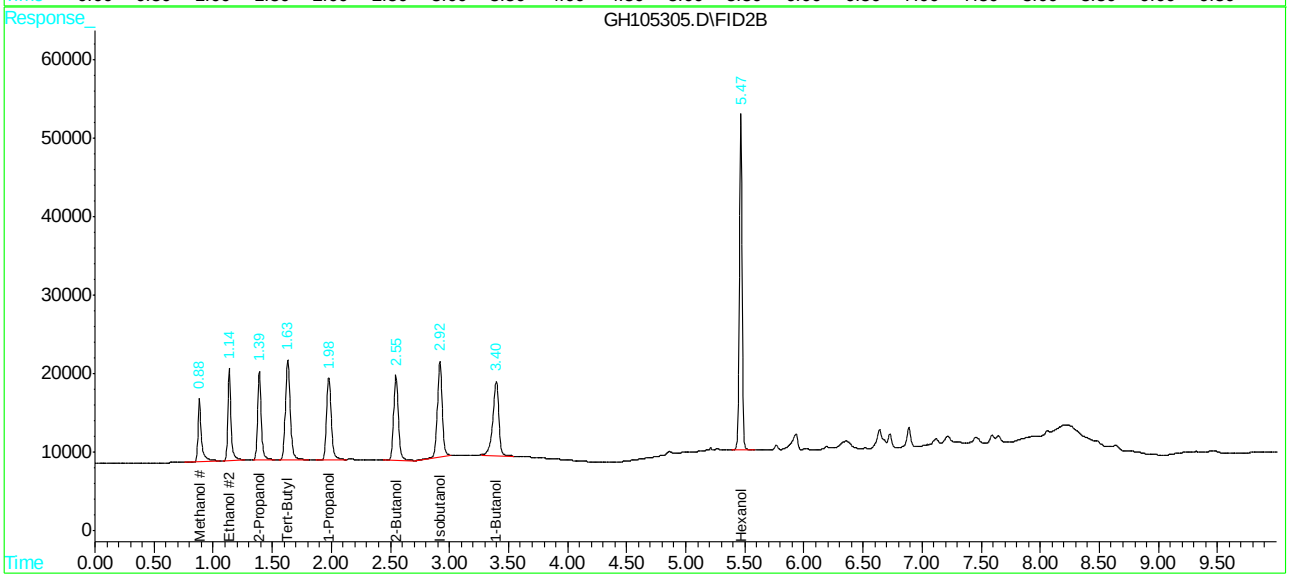
```
Data File : C:\HPCHEM\1\DATA\GH105305.D\FID1A.CH          Vial: 92
Acq On    :  1 Jun 2016   7:49 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105305.D\FID2B.CH          Vial: 92
Acq On    :  1 Jun 2016   8:04 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1  9:38 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 09:38:37 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105313.D\FID1A.CH          Vial: 95
Acq On    :  1 Jun 2016  10:44 am                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105313.D\FID2B.CH          Vial: 95
Acq On    :  1 Jun 2016  11:03 am                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48510,GGH5307,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  1 11:10 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Wed Jun 01 11:09:55 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.56	5.45f	357909	782659	5294.764	5038.119
	Spiked Amount 5000.000			Recovery	=	105.90%	100.76%
	Target Compounds						
1)	Methanol	1.11	0.89	150945	381663	9764.412	11832.954
2)	Ethanol	1.44	1.14	208857	469198	11021.349	11770.867
3)	Tert-Butyl Alcoh	2.00	1.63	301864	699017	10653.458	10993.787
4)	1-Propanol	2.50	1.98	304856	555290	12532.010	10921.777
5)	2-Propanol	1.74	1.40	213089	476440	10691.294	10522.288
6)	Isobutanol	3.30	2.93	340825	660905	11846.131	10795.364
7)	1-Butanol	3.75	3.40	304488	626585	10661.116	9469.320
8)	2-Butanol	2.93	2.55	276364	585644	10780.969	10788.442

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

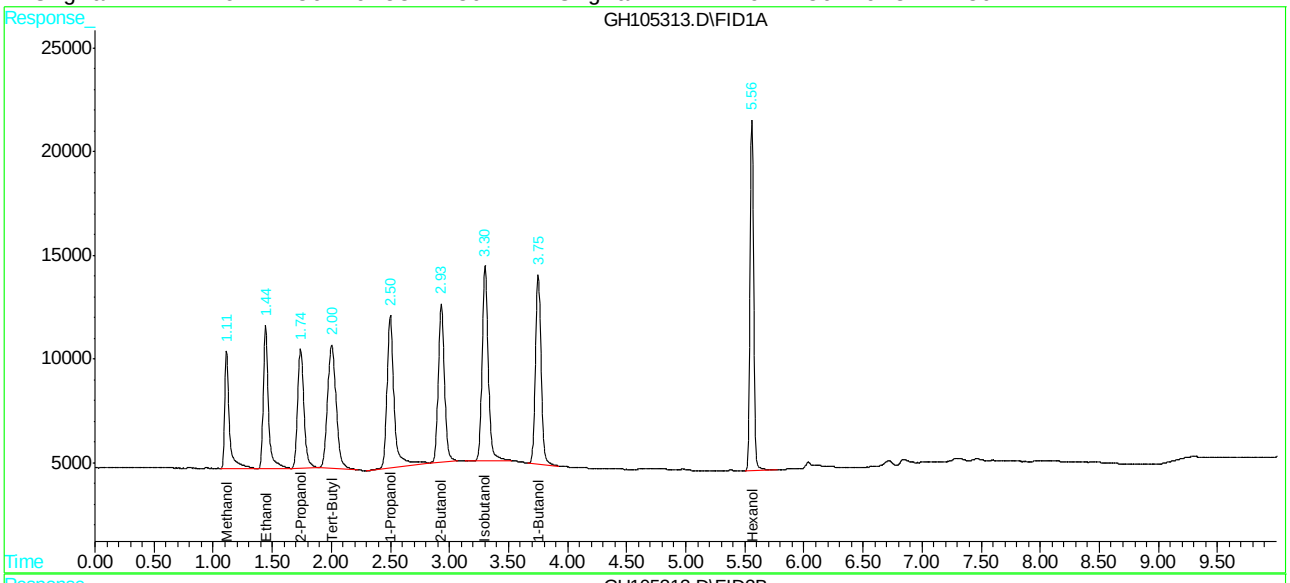
Quantitation Report (QT Reviewed)

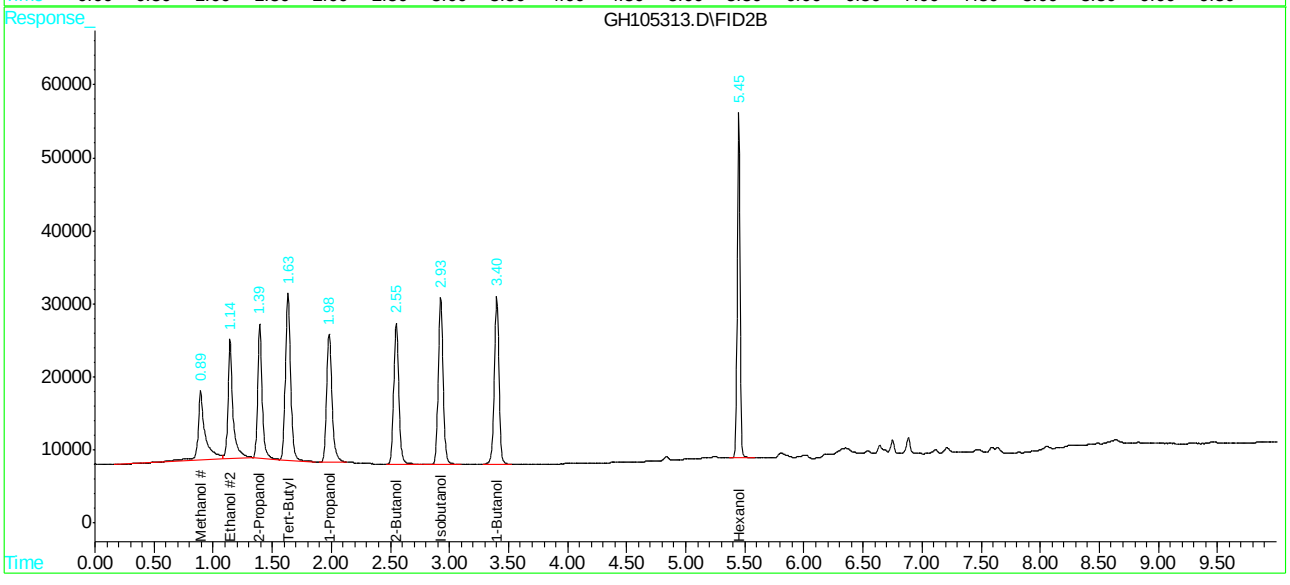
Data File : C:\HPCHEM\1\DATA\GH105313.D\FID1A.CH Vial: 95
Acq On : 1 Jun 2016 10:44 am Operator: XULIU
Sample : CC5288-10000 Inst : GCGH
Misc : GC48510,GGH5307,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105313.D\FID2B.CH Vial: 95
Acq On : 1 Jun 2016 11:03 am Operator: XULIU
Sample : CC5288-10000 Inst : GCGH
Misc : GC48510,GGH5307,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 1 11:10 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Wed Jun 01 11:09:55 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : 30mx0.53mmx3um Signal #2 Info : 30mx0.32mmx3um





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105329.D\FID1A.CH          Vial: 92
Acq On    :  2 Jun 2016   8:35 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105329.D\FID2B.CH          Vial: 92
Acq On    :  2 Jun 2016   8:49 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2  9:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:36:02 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.58	5.48	305357	679966	4517.339	4377.065
	Spiked Amount 5000.000			Recovery	=	90.35%	87.54%
	Target Compounds						
1)	Methanol	1.13	0.93	83893	137739	5426.931	4270.411
2)	Ethanol	1.46	1.16	103555	207808	5464.590	5213.337
3)	Tert-Butyl Alcoh	2.03	1.64	159362	332079	5624.245	5222.773
4)	1-Propanol	2.53	2.00	138389	253153	5688.901	4979.164
5)	2-Propanol	1.76	1.41	111889	232188	5613.795	5127.922
6)	Isobutanol	3.32	2.93	168125	300792	5843.559	4913.198
7)	1-Butanol	3.77	3.41	159040	269740	5568.497	4076.471
8)	2-Butanol	2.96	2.56	144642	248395	5642.475	4575.811

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

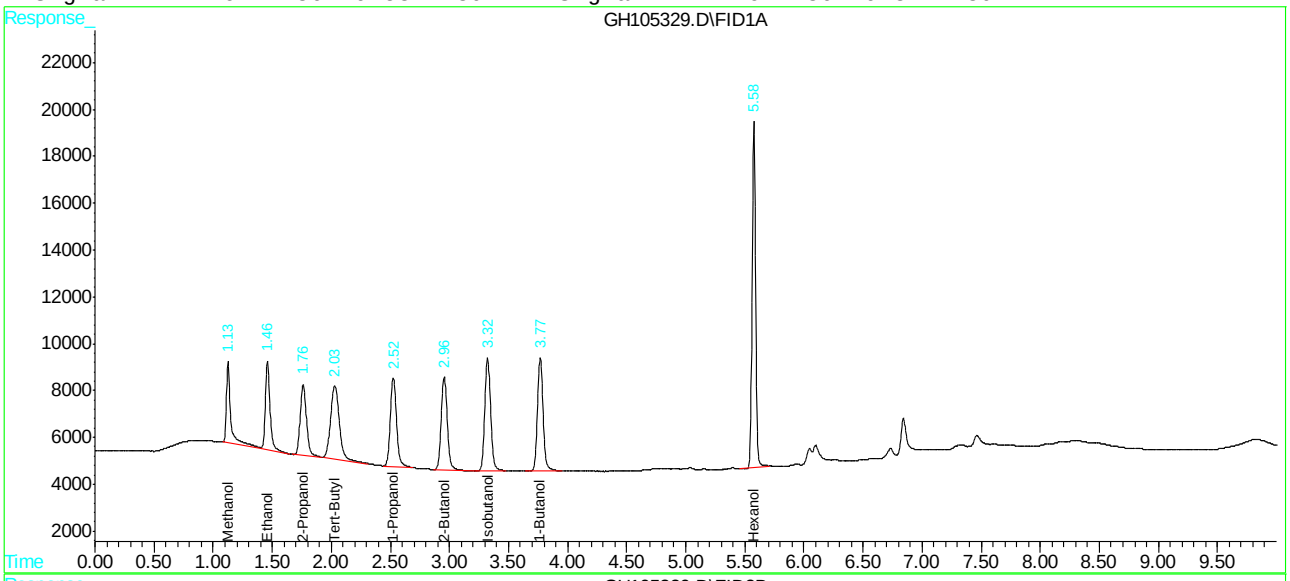
Quantitation Report (QT Reviewed)

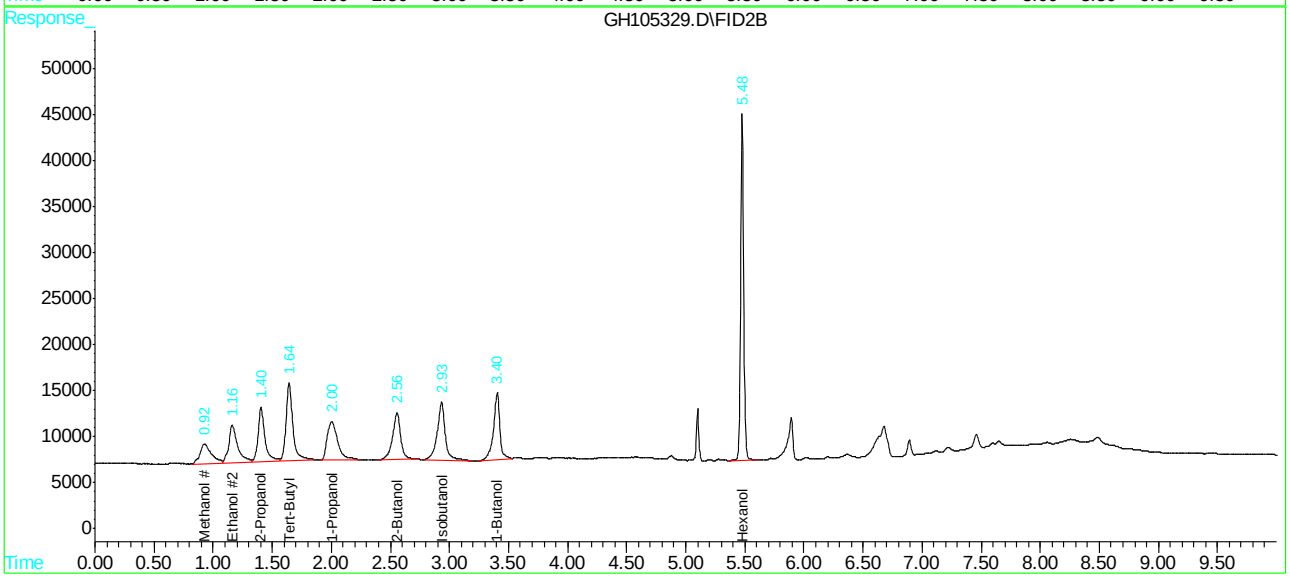
```
Data File : C:\HPCHEM\1\DATA\GH105329.D\FID1A.CH          Vial: 92
Acq On    :  2 Jun 2016   8:35 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105329.D\FID2B.CH          Vial: 92
Acq On    :  2 Jun 2016   8:49 am                     Operator: XULIU
Sample    : CC5288-5000                               Inst    : GCGH
Misc      : GC48523,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2  9:36 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 09:36:02 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH105338.D\FID1A.CH          Vial: 95
Acq On    :  2 Jun 2016  11:49 am                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105338.D\FID2B.CH          Vial: 95
Acq On    :  2 Jun 2016  12:04 pm                     Operator: XULIU
Sample    : CC5288-10000                              Inst    : GCGH
Misc      : GC48528,GGH5308,5.0,,,,1                  Multiplr: 1.00
IntFile   : autoint2.e
Quant Time: Jun  2 13:28 2016  Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title        : METHOD SW846-8015C (DAI)
Last Update  : Thu Jun 02 13:28:17 2016
Response via : Initial Calibration
DataAcq Meth : MGH5288.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : 30mx0.53mmx3um    Signal #2 Info : 30mx0.32mmx3um
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
9) S	Hexanol	5.57	5.45	343841	788537	5086.654	5075.951
	Spiked Amount 5000.000			Recovery	=	101.73%	101.52%
	Target Compounds						
1)	Methanol	1.12	0.89	148501	324305	9606.315	10054.649
2)	Ethanol	1.45	1.14	205134	435160	10824.878	10916.969
3)	Tert-Butyl Alcoh	2.02	1.64	299323	697645	10563.784	10972.203
4)	1-Propanol	2.51	1.98	279247	560827	11479.296	11030.673
5)	2-Propanol	1.75	1.40	212066	482843	10639.989	10663.699
6)	Isobutanol	3.31	2.93	328778	659232	11427.429	10768.051
7)	1-Butanol	3.76	3.40	306342	628821	10726.007	9503.115
8)	2-Butanol	2.94	2.55	282302	583191	11012.607	10743.245

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

SGS ACCUTEST JC21229

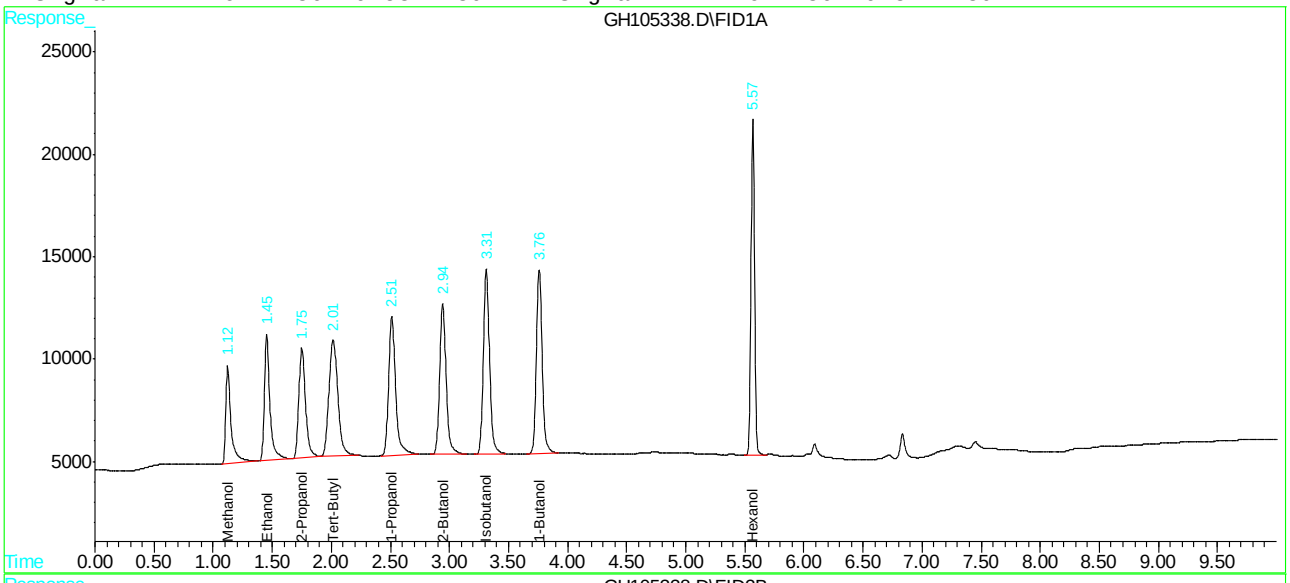
Quantitation Report (QT Reviewed)

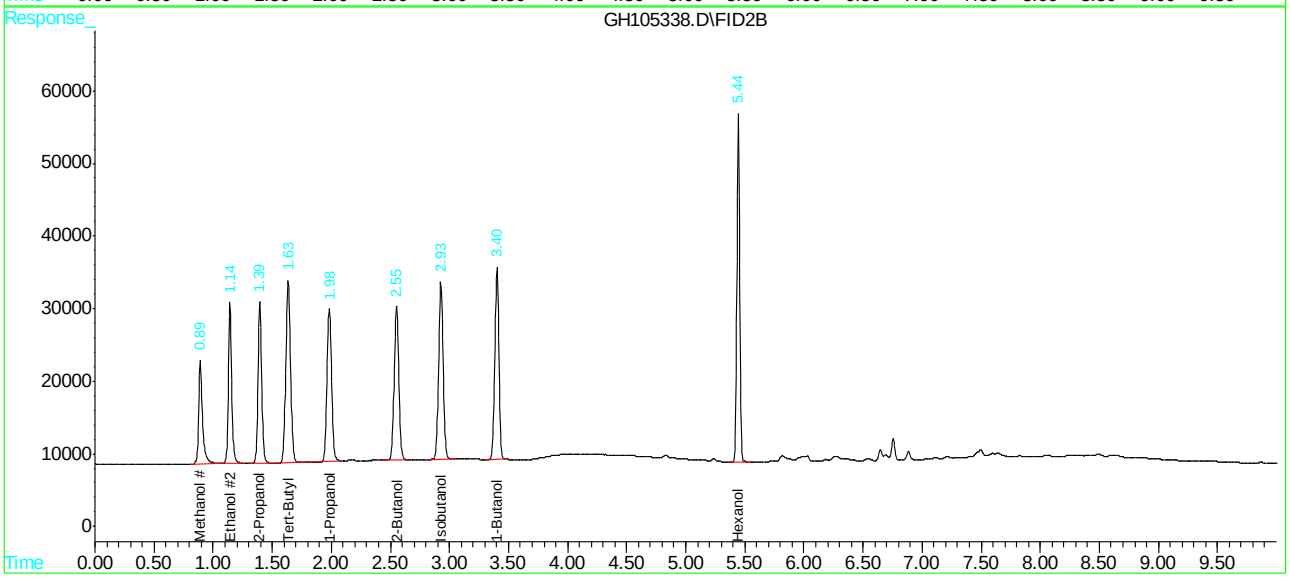
Data File : C:\HPCHEM\1\DATA\GH105338.D\FID1A.CH Vial: 95
Acq On : 2 Jun 2016 11:49 am Operator: XULIU
Sample : CC5288-10000 Inst : GCGH
Misc : GC48528,GGH5308,5.0,,,,1 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : C:\HPCHEM\1\DATA\GH105338.D\FID2B.CH Vial: 95
Acq On : 2 Jun 2016 12:04 pm Operator: XULIU
Sample : CC5288-10000 Inst : GCGH
Misc : GC48528,GGH5308,5.0,,,,1 Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Jun 2 13:28 2016 Quant Results File: MGH5288.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH5288.M (Chemstation Integrator)
Title : METHOD SW846-8015C (DAI)
Last Update : Thu Jun 02 13:28:17 2016
Response via : Multiple Level Calibration
DataAcq Meth : MGH5288.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : 30mx0.53mmx3um Signal #2 Info : 30mx0.32mmx3um





SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH 5288

Print Analyst Name: Xu Gu

Analyst Signature:

Date: 5/17/16

Columns: ZB624 / RTX-1 (30m x0.53mm x3μm / 30m x0.32mm x3μm)

Method 8015C ALL

Initial Cal. Method ccal 5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015M4108	ALL SUR (5/15)	2000 ppm
015M4510	ALL STD (5/15)	100 ppm
015M4130	ALL SD012 (5/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: **Date:** 5/19/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	Ccal105015	ZB					1					✓	not used		
	105016	ZB					1					✓	ok		
	105017	ZC5288-100					1					✓	ok	10μl STD, 4μl SUR / 10ml	
	105018	ZC5288-500					1					✓	ok	5μl STD, 1μl SUR / 10ml	
	105019	ZC5288-1000					1					✓	ok	10μl STD, 2.5μl SUR / 10ml	
	105020	ZC5288-5000					1					✓	ok	50μl STD, 2.5μl SUR / 10ml	
	105021	ZC5288-10,000					1					✓	ok	100μl STD, 2.5μl SUR / 10ml	
	105022	ZC5288-50,000					1					✓	ok	500μl STD, 3μl SUR / 10ml	
	105023	ZC5288-100,000					1					✓	ok	1000μl STD, 4μl SUR / 10ml	
	105024	ZC5288-5000					1					✓	ok	50μl STD (1:10) 2.5μl SUR / 10ml	

5/17

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Form: OR001-10
Rev. Date: 1/19/16

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5307

Print Analyst Name: Xu Liu

Analyst Signature:

Date: 6/1/16

Columns: 2336X (30m x0.5mm x µm) / R7X-1 (30m x0.32mm x µm)

Method 8015C All

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015 mix 1337	All Surr (6/15)	2000 ppm
015 mix 1338	All STD (6/15)	100 ppm
015 mix 1339	All STD(2) (6/15)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: **Date:** 6/2/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	GH105304	2B					1					✓	OK		
	105305	CC5288-5000					1					✓	OK	50µl STD/ml H2O	
	105306	MB1					1					✓	OK		
	105307	BS					1					✓	OK	50µl STD(2)/ml H2O	
	105308	JC21229-3	48520 CMA	W	5		1					✓	OK		✓
	105309	JC21229-4	✓	W	5		1					✓	OK		✓
	105310	JC21060-1	48510 ETHL	W	1		1					✓	OK	~~50µl STD(2)~~ 6/1	✓
	105311	JC21060-1MS	2PA ✓	W	1		1					✓	OK	50µl STD(2)/ml sample	✓
	105312	JC21060-1MSD	✓	W	1		1					✓	OK	50µl STD(2)/ml sample	✓
	105313	CC5288-10,000					1					✓	OK	100µl STD/ml H2O	
	105314	MB2					1					✓	OK		
	105315	JC21261-1	48527 CMA	W	5		1					✓	OK		✓
	105316	JC21264-4	✓	W	3		1					✓	OK		✓
	105317	JC21060-2	48510 ETHL IPA	W	1		1					✓	OK		✓
	105318	JC21060-3	✓	W	1		1					✓	OK		✓
	105319	JC21060-4	✓	W	1		1					✓	OK	2PA	✓
	105320	JC21060-5	✓	W	1		1					✓	OK	2PA	✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

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Form: OR001-10
Rev. Date: 1/19/16

9.6.2

9

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5307

Date: 6/1/16

Print Analyst Name: Xutiu

Analyst Signature:

Columns: ZB624 (30m x 0.53mm x 3μm) RTX-1 (30m x 0.32mm x 1μm)

Method 8015C Air

Initial Cal. Method MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Pg 215	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/2/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml) or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH105321	JC21060-6	8510 25ML,2PA	W	1		1						OK		✓
	105322	JC21060-7	✓	W	1		1						OK		✓
	105323	CC5288-5000					1						OK	50μl STD/ml H2O	
	105324	MB3					1						OK		
	105325	JC21060-8	✓	W	1		1						OK		✓
	105326	JC21060-9	✓	W	1		1						OK		✓
	105327	CC5288-10,000					1						OK	100μl STD/ml H2O	
	18														
													(X) 6/1		
													(X) 6/1		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: CR001-10
Rev. Date: 1/19/16

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9.6.2 9

SGS ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH5308

Print Analyst Name: Xu Lin

Date: 6/2/16

Analyst Signature:

Columns: 2B6VX / RTX-1 (30mx0.53mmx3μm) (30mx0.32mmx3μm)

Method: 8015C GRO

Initial Cal. Method: MGH5288

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
015W4137	ACL SUR (6/15)	2000ppm
015W4138	ACL STD (6/15)	100ppm
015W4139	ACL STD(L) (6/15)	10 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Nazn Date: 6/3/16

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH105328	2B										✓	OK		
	105329	CC5288-5000										✓	OK	5000ppm/ml(2)	
	105330	MB1										✓	OK		
	105331	BS	6/2									✓	OK	50ppm STD(2)/ml(2)	
	105332	JC21229-1	48523 CMX	S	1		5.0/5					✓	OK		
	105333	JC21229-2MS	✓	S	1		5.0/5					✓	OK	50ppm STD(2)/ml sample	
	105334	JC21229-2MSD	✓	S	1		5.0/5					✓	OK	50ppm STD(2)/ml sample	
	105335	JC21229-1	✓	S	1		5.1/5					✓	OK		
	105336	JC21261-2	48528 CMX	S	2		5.0/5					✓	OK		
	105337	JC21261-3	✓	S	2		5.0/5					✓	OK		
	105338	CC5288-10,000										✓	OK	10000ppm/ml(2)	
														6/2	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.
All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-10
Rev. Date: 1/19/16

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9.6.3

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GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94349-MB1	1G123746.D	1	06/01/16	KD	05/29/16	OP94349	G1G4001

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-3

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0060	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0060	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0046	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0028	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0046	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0046	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0036	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0062	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0050	ug/l	
72-20-8	Endrin	ND	0.010	0.0050	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0053	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0051	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0051	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0050	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0043	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0038	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0057	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.18	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	104%	26-132%
877-09-8	Tetrachloro-m-xylene	95%	26-132%
2051-24-3	Decachlorobiphenyl	124%* [a]	10-118%
2051-24-3	Decachlorobiphenyl	131%* [a]	10-118%

(a) Outside the QC limits.

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94393-MB1	4G68825.D	1	06/02/16	DS	06/01/16	OP94393	G4G1806

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-1, JC21229-2

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.67	0.59	ug/kg	
319-84-6	alpha-BHC	ND	0.67	0.44	ug/kg	
319-85-7	beta-BHC	ND	0.67	0.41	ug/kg	
319-86-8	delta-BHC	ND	0.67	0.26	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	0.30	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.67	0.36	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.67	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.67	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	0.25	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	0.22	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	0.25	ug/kg	
72-20-8	Endrin	ND	0.67	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	0.38	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	0.50	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	0.22	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	0.63	ug/kg	
76-44-8	Heptachlor	ND	0.67	0.55	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.3	0.37	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	0.35	ug/kg	
8001-35-2	Toxaphene	ND	17	12	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	81%	24-136%
877-09-8	Tetrachloro-m-xylene	79%	24-136%
2051-24-3	Decachlorobiphenyl	117%	10-153%
2051-24-3	Decachlorobiphenyl	65%	10-153%

Method Blank Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94431-MB1	1G123819.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-4

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0060	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0060	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0057	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0046	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0028	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0046	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0046	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0036	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0038	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0062	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0050	ug/l	
72-20-8	Endrin	ND	0.010	0.0050	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0053	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0051	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0051	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0050	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0043	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0038	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0065	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0057	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.18	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	96%	26-132%
877-09-8	Tetrachloro-m-xylene	87%	26-132%
2051-24-3	Decachlorobiphenyl	87%	10-118%
2051-24-3	Decachlorobiphenyl	92%	10-118%

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94393-BS1	4G68826.D	1	06/02/16	DS	06/01/16	OP94393	G4G1806

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-1, JC21229-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	12.7	76	40-135
319-84-6	alpha-BHC	16.7	12.5	75	37-134
319-85-7	beta-BHC	16.7	12.9	77	37-131
319-86-8	delta-BHC	16.7	13.4	80	34-132
58-89-9	gamma-BHC (Lindane)	16.7	12.9	77	36-128
5103-71-9	alpha-Chlordane	16.7	12.9	77	40-131
5103-74-2	gamma-Chlordane	16.7	13.2	79	41-133
60-57-1	Dieldrin	16.7	13.4	80	33-133
72-54-8	4,4'-DDD	16.7	13.7	82	37-132
72-55-9	4,4'-DDE	16.7	12.8	77	39-133
50-29-3	4,4'-DDT	16.7	13.0	78 [a]	26-150
72-20-8	Endrin	16.7	14.2	85	41-134
1031-07-8	Endosulfan sulfate	16.7	11.3	68	38-138
7421-93-4	Endrin aldehyde	16.7	11.7	70	37-129
959-98-8	Endosulfan-I	16.7	12.8	77	39-130
33213-65-9	Endosulfan-II	16.7	12.0	72	40-134
76-44-8	Heptachlor	16.7	12.5	75	36-132
1024-57-3	Heptachlor epoxide	16.7	13.2	79	39-131
72-43-5	Methoxychlor	16.7	13.5	81 [a]	28-149
53494-70-5	Endrin ketone	16.7	11.3	68	31-138

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	70%	24-136%
877-09-8	Tetrachloro-m-xylene	71%	24-136%
2051-24-3	Decachlorobiphenyl	98%	10-153%
2051-24-3	Decachlorobiphenyl	59%	10-153%

(a) Reported from 1st signal. %D of check on 2nd signal exceed method criteria (20%) so using for confirmation only.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94431-BS1	1G123820.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.24	96	38-138
319-84-6	alpha-BHC	0.25	0.23	92	51-144
319-85-7	beta-BHC	0.25	0.23	92	55-137
319-86-8	delta-BHC	0.25	0.23	92	33-148
58-89-9	gamma-BHC (Lindane)	0.25	0.24	96	53-142
5103-71-9	alpha-Chlordane	0.25	0.25	100	52-137
5103-74-2	gamma-Chlordane	0.25	0.25	100	52-140
60-57-1	Dieldrin	0.25	0.26	104	54-144
72-54-8	4,4'-DDD	0.25	0.25	100	46-151
72-55-9	4,4'-DDE	0.25	0.24	96	51-142
50-29-3	4,4'-DDT	0.25	0.24	96	53-158
72-20-8	Endrin	0.25	0.28	112	53-149
1031-07-8	Endosulfan sulfate	0.25	0.23	92	49-148
7421-93-4	Endrin aldehyde	0.25	0.24	96	45-137
53494-70-5	Endrin ketone	0.25	0.22	88	48-142
959-98-8	Endosulfan-I	0.25	0.25	100	54-139
33213-65-9	Endosulfan-II	0.25	0.25	100	54-142
76-44-8	Heptachlor	0.25	0.24	96	45-137
1024-57-3	Heptachlor epoxide	0.25	0.25	100	54-140
72-43-5	Methoxychlor	0.25	0.25	100	51-157

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	86%	26-132%
877-09-8	Tetrachloro-m-xylene	85%	26-132%
2051-24-3	Decachlorobiphenyl	84%	10-118%
2051-24-3	Decachlorobiphenyl	93%	10-118%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94349-BS1	1G123693.D	1	05/31/16	RK	05/29/16	OP94349	G1G4000
OP94349-BSD	1G123710.D	1	05/31/16	RK	05/29/16	OP94349	G1G4000

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.25	0.32	128	0.21	84	42* [a]	38-138/30
319-84-6	alpha-BHC	0.25	0.30	120	0.25	100	21	51-144/30
319-85-7	beta-BHC	0.25	0.29	116	0.25	100	15	55-137/30
319-86-8	delta-BHC	0.25	0.28	112	0.26	104	7	33-148/30
58-89-9	gamma-BHC (Lindane)	0.25	0.30	120	0.26	104	14	53-142/30
5103-71-9	alpha-Chlordane	0.25	0.30	120	0.26	104	14	52-137/30
5103-74-2	gamma-Chlordane	0.25	0.31	124	0.25	100	21	52-140/30
60-57-1	Dieldrin	0.25	0.31	124	0.27	108	14	54-144/30
72-54-8	4,4'-DDD	0.25	0.30	120	0.26	104	14	46-151/30
72-55-9	4,4'-DDE	0.25	0.31	124	0.25	100	21	51-142/30
50-29-3	4,4'-DDT	0.25	0.29	116	0.25	100	15	53-158/30
72-20-8	Endrin	0.25	0.33	132	0.29	116	13	53-149/30
1031-07-8	Endosulfan sulfate	0.25	0.30	120 [b]	0.25	100	4	49-148/30
7421-93-4	Endrin aldehyde	0.25	0.30	120	0.27	108	11	45-137/30
53494-70-5	Endrin ketone	0.25	0.23	92	0.26	104	12	48-142/30
959-98-8	Endosulfan-I	0.25	0.30	120	0.26	104	14	54-139/30
33213-65-9	Endosulfan-II	0.25	0.29	116	0.26	104	11	54-142/30
76-44-8	Heptachlor	0.25	0.30	120	0.23	92	26	45-137/30
1024-57-3	Heptachlor epoxide	0.25	0.31	124	0.27	108	14	54-140/30
72-43-5	Methoxychlor	0.25	0.27	108	0.26	104	4	51-157/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	118%	79%	26-132%
877-09-8	Tetrachloro-m-xylene	115%	79%	26-132%
2051-24-3	Decachlorobiphenyl	105%	83%	10-118%
2051-24-3	Decachlorobiphenyl	131%* [c]	93%	10-118%

(a) Analytical precision exceeds in-house control limits.
(b) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.
(c) Outside the QC limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94393-MS	4G68833.D	1	06/02/16	DS	06/01/16	OP94393	G4G1806
OP94393-MSD	4G68834.D	1	06/02/16	DS	06/01/16	OP94393	G4G1806
JC21223-27	4G68832.D	1	06/02/16	DS	06/01/16	OP94393	G4G1806

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-1, JC21229-2

CAS No.	Compound	JC21223-27 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		18.1	15.4	85	18.3	13.6	74	12	19-147/48
319-84-6	alpha-BHC	ND		18.1	15.7	87	18.3	13.8	75	13	13-155/50
319-85-7	beta-BHC	ND		18.1	9.9	55	18.3	10.1	55	2	10-145/53
319-86-8	delta-BHC	ND		18.1	16.5	91	18.3	13.9	76	17	11-148/51
58-89-9	gamma-BHC (Lindane)	ND		18.1	14.9	82	18.3	13.2	72	12	16-143/47
5103-71-9	alpha-Chlordane	3.8		18.1	17.6	76	18.3	16.6	70	6	15-151/50
5103-74-2	gamma-Chlordane	3.3		18.1	13.8	58	18.3	14.9	63	8	13-151/50
60-57-1	Dieldrin	6.6		18.1	20.0	74	18.3	18.3	64	9	10-157/54
72-54-8	4,4'-DDD	1.5		18.1	15.8	79	18.3	13.3	64	17	10-157/52
72-55-9	4,4'-DDE	2.7		18.1	13.3	59	18.3	11.8	50	12	10-155/49
50-29-3	4,4'-DDT	25.2		18.1	26.0	18	18.3	25.0	12	4	10-187/49
72-20-8	Endrin	ND		18.1	17.8	98	18.3	13.5	74	27	14-154/53
1031-07-8	Endosulfan sulfate	ND		18.1	12.6	70	18.3	11.3	62	11	16-140/55
7421-93-4	Endrin aldehyde	ND		18.1	16.0	88	18.3	12.1	66	28	10-156/51
959-98-8	Endosulfan-I	ND		18.1	16.2	89	18.3	13.3	72	20	12-142/47
33213-65-9	Endosulfan-II	ND		18.1	13.9	77	18.3	11.9	65	16	10-150/52
76-44-8	Heptachlor	ND		18.1	15.1	83	18.3	14.3	78	5	10-159/49
1024-57-3	Heptachlor epoxide	1.3		18.1	13.5	67	18.3	12.1	59	11	16-150/51
72-43-5	Methoxychlor	ND		18.1	14.1	78	18.3	10.6	58	28	10-166/52
53494-70-5	Endrin ketone	ND		18.1	24.3	134	18.3	15.8	86	42	10-171/52
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC21223-27	Limits
877-09-8	Tetrachloro-m-xylene	70%	63%	52%	24-136%
877-09-8	Tetrachloro-m-xylene	64%	57%	49%	24-136%
2051-24-3	Decachlorobiphenyl	85%	65%	57%	10-153%
2051-24-3	Decachlorobiphenyl	72%	57%	52%	10-153%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP94431-MS	1G123827.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003
OP94431-MSD	1G123828.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003
JC21347-3	1G123822.D	1	06/03/16	KD	06/02/16	OP94431	G1G4003

The QC reported here applies to the following samples: **Method:** SW846 8081B

JC21229-4

CAS No.	Compound	JC21347-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.55	0.36	66	0.55	0.38	69	5	37-159/40
319-84-6	alpha-BHC	ND		0.55	0.67	122	0.55	0.65	118	3	37-164/37
319-85-7	beta-BHC	ND		0.55	0.61	111	0.55	0.59	107	3	46-151/36
319-86-8	delta-BHC	ND		0.55	0.63	115	0.55	0.61	111	3	32-168/36
58-89-9	gamma-BHC (Lindane)	ND		0.55	0.63	115	0.55	0.61	111	3	44-160/37
5103-71-9	alpha-Chlordane	ND		0.55	0.45	82	0.55	0.45	82	0	38-160/35
5103-74-2	gamma-Chlordane	ND		0.55	0.44	80	0.55	0.45	82	2	39-157/37
60-57-1	Dieldrin	ND		0.55	0.59	107	0.55	0.58	106	2	42-161/36
72-54-8	4,4'-DDD	ND		0.55	0.41	75	0.55	0.41	75	0	40-161/36
72-55-9	4,4'-DDE	ND		0.55	0.28	51	0.55	0.29	53	4	34-158/36
50-29-3	4,4'-DDT	ND		0.55	0.24	44	0.55	0.26	47	8	41-173/33
72-20-8	Endrin	ND		0.55	0.66	120	0.55	0.64	116	3	44-166/35
1031-07-8	Endosulfan sulfate	ND		0.55	0.58	106	0.55	0.56	102	4	46-161/36
7421-93-4	Endrin aldehyde	ND		0.55	0.67	122	0.55	0.64	116	5	34-149/36
53494-70-5	Endrin ketone	ND		0.55	0.62	113	0.55	0.60	109	3	44-157/36
959-98-8	Endosulfan-I	ND		0.55	0.59	107	0.55	0.58	106	2	43-154/35
33213-65-9	Endosulfan-II	ND		0.55	0.62	113	0.55	0.60	109	3	40-162/35
76-44-8	Heptachlor	ND		0.55	0.46	84	0.55	0.47	86	2	33-153/37
1024-57-3	Heptachlor epoxide	ND		0.55	0.62	113	0.55	0.61	111	2	45-154/37
72-43-5	Methoxychlor	ND		0.55	0.36	66	0.55	0.37	67	3	48-169/32
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC21347-3	Limits
877-09-8	Tetrachloro-m-xylene	90%	95%	74%	26-132%
877-09-8	Tetrachloro-m-xylene	83%	87%	73%	26-132%
2051-24-3	Decachlorobiphenyl	34%	33%	31%	10-118%
2051-24-3	Decachlorobiphenyl	38%	37%	36%	10-118%

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123682.D	**Injection Time:**	10:35
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1202606190	1.49	187643975	1.33
Upper Limit [a]	2405212380	1.99	375287950	1.83
Lower Limit [b]	601303095	0.99	93821988	0.83

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94349-BS1	1112304962	1.49	181551042	1.33
ZZZZZZ	854435517	1.48	135232147	1.32
ZZZZZZ	909240672	1.48	142059392	1.32
ZZZZZZ	930428008	1.48	145881454	1.32
JC21030-4	943571622	1.48	147828098	1.32
ZZZZZZ	922224640	1.48	144743753	1.32
ZZZZZZ	938634030	1.48	143319908	1.32
ZZZZZZ	942427392	1.48	143510554	1.32
ZZZZZZ	659265786	1.48	143018936	1.32
ZZZZZZ	929323210	1.48	168731574	1.32
ZZZZZZ	704780554	1.48	287901789	1.31

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123703.D	**Injection Time:**	18:48
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	937288657	1.48	140081787	1.32
Upper Limit [a]	1874577314	1.98	280163574	1.82
Lower Limit [b]	468644329	0.98	70040894	0.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94296-MB1	1010933120	1.48	165965409	1.32
OP94296-BS1	1028861601	1.48	168233082	1.32
OP94349-BSD	930077324	1.48	140156680	1.32
OP94296-MS	1028670723	1.48	169091749	1.31
OP94296-MSD	1029149423	1.48	169896464	1.32
JC21002-29	1049493091	1.48	171247030	1.32
OP94238-MS	889221264	1.48	135829455	1.32
OP94238-MSD	817643631	1.48	125769598	1.32
ZZZZZZ	1081850248	1.48	172548937	1.32
ZZZZZZ	1037949912	1.48	175950509	1.32
OP94265-MS	965047747	1.48	147995124	1.32
OP94265-MSD	1105300136	1.48	167544779	1.32
ZZZZZZ	1024375666	1.48	155477371	1.32
ZZZZZZ	1075212942	1.48	168268865	1.32
ZZZZZZ	1036613046	1.48	161347247	1.32
ZZZZZZ	1068816828	1.48	166163487	1.32
ZZZZZZ	1262018841	1.48	187844944	1.32

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4001-CC3988	**Injection Date:**	06/01/16
Lab File ID:	1G123723.D	**Injection Time:**	10:00
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1062821344	1.48	163604110	1.32
Upper Limit [a]	2125642688	1.98	327208220	1.82
Lower Limit [b]	531410672	0.98	81802055	0.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94358-MB1	1050926152	1.48	152261815	1.32
OP94358-BS1	1078919762	1.48	158151084	1.32
ZZZZZZ	1049171910	1.48	160876785	1.32
ZZZZZZ	1087889083	1.48	166678270	1.32
JC21159-1	1108971816	1.48	170348916	1.32
OP94358-MS	1198917876	1.48	167844536	1.32
OP94358-MSD	1088251865	1.48	165516747	1.32
ZZZZZZ	1118700592	1.48	166744724	1.32
ZZZZZZ	1068182315	1.48	160751071	1.32
ZZZZZZ	1042268713	1.48	156432192	1.32
ZZZZZZ	1053233649	1.48	156706074	1.32
ZZZZZZ	1074407732	1.48	165038652	1.32
JC21229-3	1028465824	1.48	154580294	1.32
ZZZZZZ	1099498700	1.48	167715056	1.32
ZZZZZZ	1145815382	1.48	171702304	1.32
ZZZZZZ	1079751632	1.48	166243056	1.32
ZZZZZZ	1079386306	1.48	162486824	1.32

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4001-CC3988	**Injection Date:**	06/01/16
Lab File ID:	1G123744.D	**Injection Time:**	18:23
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1084128094	1.48	165568283	1.32
Upper Limit [a]	2168256188	1.98	331136566	1.82
Lower Limit [b]	542064047	0.98	82784142	0.82

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94349-MB1	977416558	1.48	142398687	1.32
OP94265-MB1	1029683187	1.48	150182587	1.32
OP94265-BS1	1104378216	1.48	172500570	1.32
OP94273-MB1	932184595	1.48	143500594	1.32
OP94273-BS1	986806542	1.48	152996493	1.32
JC20904-1	1004397632	1.48	155057258	1.32
OP94273-MS	959074192	1.48	149189621	1.32
OP94273-MSD	914096341	1.48	145547584	1.32
ZZZZZZ	1016356296	1.48	159108009	1.32
ZZZZZZ	968645594	1.48	166125628	1.32
ZZZZZZ	945891029	1.48	159653904	1.32
ZZZZZZ	945829197	1.49	159572044	1.33
ZZZZZZ	964023472	1.48	160404618	1.33
ZZZZZZ	884324216	1.48	150007311	1.33
ZZZZZZ	919490295	1.48	172448628	1.33

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	1113724204	1.49	166316261	1.33
Upper Limit [a]	2227448408	1.99	332632522	1.83
Lower Limit [b]	556862102	0.99	83158131	0.83

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94431-MB1	975731654	1.50	144465424	1.33
OP94431-BS1	1082040837	1.50	168348088	1.33
JC21229-3 [c]	1077513640	1.50	164144499	1.33
JC21347-3	1097923911	1.50	168570749	1.33
ZZZZZZ	1014771840	1.49	140990370	1.33
ZZZZZZ	751119010	1.49	124682348	1.33
ZZZZZZ	1051353314	1.50	157552510	1.33
JC21229-4	1039392995	1.50	151075435	1.33
OP94431-MS	1123453933	1.50	168160499	1.33
OP94431-MSD	1099070086	1.49	162607261	1.33
ZZZZZZ	585127994	1.50	118261256	1.33
ZZZZZZ	890401242	1.50	152654476	1.33
ZZZZZZ	634465657	1.50	121856430	1.33
ZZZZZZ	1018922894	1.50	167041528	1.33
ZZZZZZ	1021455791	1.50	189847026	1.33

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1806-CC1799	**Injection Date:**	06/02/16
Lab File ID:	4G68823.D	**Injection Time:**	12:08
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	355252038	2.05	380549971	1.87
Upper Limit [a]	710504076	2.55	761099942	2.37
Lower Limit [b]	177626019	1.55	190274986	1.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP94393-MB1	355991515	2.05	390634662	1.87
OP94393-BS1	348862624	2.05	396023592	1.87
ZZZZZZ	388722069	2.05	432263956	1.87
ZZZZZZ	265039964	2.05	330690859	1.88
ZZZZZZ	379074712	2.05	413093987	1.87
ZZZZZZ	377016313	2.05	415985602	1.87
ZZZZZZ	409420035	2.05	430931836	1.87
JC21223-27	448670042	2.05	475781829	1.87
OP94393-MS	397897659	2.04	424765005	1.88
OP94393-MSD	418624556	2.05	427179739	1.88
ZZZZZZ	467977532	2.05	452774530	1.88
ZZZZZZ	457492595	2.05	435566367	1.88

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

Semivolatile Internal Standard Area Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1813-CC1811	**Injection Date:**	06/07/16
Lab File ID:	4G68947.D	**Injection Time:**	11:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	352474359	2.04	427143810	1.88
Upper Limit [a]	704948718	2.54	854287620	2.38
Lower Limit [b]	176237180	1.54	213571905	1.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	521371410	2.05	567248634	1.88
ZZZZZZ	489105532	2.05	512383856	1.88
ZZZZZZ	479438674	2.05	493663341	1.88
ZZZZZZ	495113714	2.05	531780342	1.88
JC21229-1	458381991	2.05	501969516	1.88
JC21229-2	409078849	2.05	432145213	1.87
ZZZZZZ	1232049571	2.07	1413767373	1.84

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

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

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G3988-DDT
Lab File ID: 1G123059.D
Instrument ID: GC1G
Injection Date: 05/16/16
Injection Time: 09:09

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1011043	7386221
4,4'-DDE	837634	4492810
4,4'-DDT	267769932	1336844219
DDT Breakdown [a]	0.7 %	0.9 %
Endrin aldehyde	1371237	7932699
Endrin ketone	6408544	33500252
Endrin	129236444	661131236
Endrin Breakdown [b]	5.7 %	5.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G3988-IC3988	1G123061.D	05/16/16	10:11	01:02	Initial cal 1
G1G3988-IC3988	1G123062.D	05/16/16	10:28	01:19	Initial cal 2
G1G3988-IC3988	1G123063.D	05/16/16	10:46	01:37	Initial cal 5
G1G3988-IC3988	1G123064.D	05/16/16	11:03	01:54	Initial cal 10
G1G3988-ICC3988	1G123065.D	05/16/16	11:21	02:12	Initial cal 25
G1G3988-IC3988	1G123066.D	05/16/16	11:38	02:29	Initial cal 50
G1G3988-IC3988	1G123067.D	05/16/16	11:56	02:47	Initial cal 75
G1G3988-IC3988	1G123068.D	05/16/16	12:13	03:04	Initial cal 100
G1G3988-IC3988	1G123069.D	05/16/16	12:31	03:22	Initial cal 500
G1G3988-IC3988	1G123070.D	05/16/16	12:48	03:39	Initial cal 500
G1G3988-ICV3988	1G123071.D	05/16/16	13:06	03:57	Initial cal verification 25
G1G3988-ICV3988	1G123072.D	05/16/16	13:23	04:15	Initial cal verification 25
G1G3988-ICV3988	1G123073.D	05/16/16	13:41	04:32	Initial cal verification 500
G1G3988-ICV3988	1G123074.D	05/16/16	13:58	04:50	Initial cal verification 500
G1G3989-CC3988	1G123075.D	05/16/16	14:16	05:07	Continuing cal 25
OP93907-MB1	1G123077.D	05/16/16	14:51	05:43	Method Blank
OP93907-BS1	1G123078.D	05/16/16	15:09	06:00	Blank Spike
OP93838-MB1	1G123079.D	05/16/16	15:26	06:18	Method Blank
ZZZZZZ	1G123080.D	05/16/16	15:44	06:35	(unrelated sample)
ZZZZZZ	1G123081.D	05/16/16	16:01	06:53	(unrelated sample)
ZZZZZZ	1G123082.D	05/16/16	16:19	07:10	(unrelated sample)
ZZZZZZ	1G123084.D	05/16/16	16:54	07:45	(unrelated sample)
JC20184-3	1G123111.D	05/16/16	17:11	08:03	(used for QC only; not part of job JC21229)
ZZZZZZ	1G123085.D	05/16/16	17:29	08:20	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample:	G1G3988-DDT	**Injection Date:**	05/16/16
Lab File ID:	1G123059.D	**Injection Time:**	09:09
Instrument ID:	GC1G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	1G123086.D	05/16/16	17:46	08:38	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4000-DDT
Lab File ID: 1G123681.D
Instrument ID: GC1G
Injection Date: 05/31/16
Injection Time: 10:14

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	6419344	38298039
4,4'-DDE	5652561	37119886
4,4'-DDT	357288212	1680251106
DDT Breakdown [a]	3.3 %	4.3 %
Endrin aldehyde	2246826	9903952
Endrin ketone	7145465	33743189
Endrin	196616435	994478847
Endrin Breakdown [b]	4.6 %	4.2 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G4000-CC3988	1G123682.D	05/31/16	10:35	00:21	Continuing cal 50
OP94349-BS1	1G123693.D	05/31/16	12:03	01:49	Blank Spike
ZZZZZZ	1G123686.D	05/31/16	13:30	03:17	(unrelated sample)
ZZZZZZ	1G123701.D	05/31/16	13:48	03:34	(unrelated sample)
ZZZZZZ	1G123688.D	05/31/16	14:05	03:51	(unrelated sample)
JC21030-4	1G123689.D	05/31/16	14:22	04:09	(used for QC only; not part of job JC21229)
ZZZZZZ	1G123690.D	05/31/16	14:40	04:27	(unrelated sample)
ZZZZZZ	1G123691.D	05/31/16	14:58	04:44	(unrelated sample)
ZZZZZZ	1G123697.D	05/31/16	15:50	05:37	(unrelated sample)
ZZZZZZ	1G123698.D	05/31/16	16:08	05:54	(unrelated sample)
ZZZZZZ	1G123699.D	05/31/16	16:25	06:12	(unrelated sample)
ZZZZZZ	1G123700.D	05/31/16	16:43	06:29	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4000-DDT
Lab File ID: 1G123702.D
Instrument ID: GC1G
Injection Date: 05/31/16
Injection Time: 18:30

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3615008	24662069
4,4'-DDE	1991934	13049159
4,4'-DDT	267257685	1393585992
DDT Breakdown [a]	2.1 %	2.6 %
Endrin aldehyde	993812	11297250
Endrin ketone	6634582	50082611
Endrin	140291184	783176338
Endrin Breakdown [b]	5.2 %	7.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G4000-CC3988	1G123703.D	05/31/16	18:48	00:18	Continuing cal 25
OP94296-MB1	1G123705.D	05/31/16	19:23	00:53	Method Blank
OP94296-BS1	1G123706.D	05/31/16	19:40	01:10	Blank Spike
OP94349-BSD	1G123710.D	05/31/16	19:58	01:28	Blank Spike Duplicate
OP94296-MS	1G123707.D	05/31/16	20:15	01:45	Matrix Spike
OP94296-MSD	1G123708.D	05/31/16	20:33	02:03	Matrix Spike Duplicate
JC21002-29	1G123709.D	05/31/16	20:51	02:21	(used for QC only; not part of job JC21229)
OP94238-MS	1G123711.D	05/31/16	21:08	02:38	Matrix Spike
OP94238-MSD	1G123712.D	05/31/16	21:26	02:56	Matrix Spike Duplicate
ZZZZZZ	1G123713.D	05/31/16	21:43	03:13	(unrelated sample)
ZZZZZZ	1G123714.D	05/31/16	22:01	03:30	(unrelated sample)
OP94265-MS	1G123715.D	05/31/16	22:18	03:47	Matrix Spike
OP94265-MSD	1G123716.D	05/31/16	22:36	04:05	Matrix Spike Duplicate
ZZZZZZ	1G123717.D	05/31/16	22:54	04:23	(unrelated sample)
ZZZZZZ	1G123718.D	05/31/16	23:11	04:40	(unrelated sample)
ZZZZZZ	1G123719.D	05/31/16	23:29	04:58	(unrelated sample)
ZZZZZZ	1G123720.D	05/31/16	23:46	05:15	(unrelated sample)
ZZZZZZ	1G123721.D	06/01/16	00:04	05:33	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4001-DDT
Lab File ID: 1G123722.D
Instrument ID: GC1G
Injection Date: 06/01/16
Injection Time: 09:43

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2909740	18847773
4,4'-DDE	1183215	5946927
4,4'-DDT	321725368	1533555707
DDT Breakdown [a]	1.3 %	1.6 %
Endrin aldehyde	1479250	7347066
Endrin ketone	7170431	37454702
Endrin	167827976	875589904
Endrin Breakdown [b]	4.9 %	4.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G4001-CC3988	1G123723.D	06/01/16	10:00	00:17	Continuing cal 50
OP94358-MB1	1G123725.D	06/01/16	11:00	01:17	Method Blank
OP94358-BS1	1G123726.D	06/01/16	11:17	01:34	Blank Spike
ZZZZZZ	1G123727.D	06/01/16	11:35	01:52	(unrelated sample)
ZZZZZZ	1G123728.D	06/01/16	11:52	02:09	(unrelated sample)
JC21159-1	1G123729.D	06/01/16	12:10	02:27	(used for QC only; not part of job JC21229)
OP94358-MS	1G123730.D	06/01/16	12:27	02:44	Matrix Spike
OP94358-MSD	1G123731.D	06/01/16	12:45	03:02	Matrix Spike Duplicate
ZZZZZZ	1G123732.D	06/01/16	13:02	03:20	(unrelated sample)
ZZZZZZ	1G123733.D	06/01/16	13:20	03:37	(unrelated sample)
ZZZZZZ	1G123734.D	06/01/16	13:37	03:55	(unrelated sample)
ZZZZZZ	1G123735.D	06/01/16	13:55	04:12	(unrelated sample)
ZZZZZZ	1G123736.D	06/01/16	14:12	04:30	(unrelated sample)
JC21229-3	1G123741.D	06/01/16	14:30	04:47	SB102-GWD
ZZZZZZ	1G123737.D	06/01/16	14:47	05:05	(unrelated sample)
ZZZZZZ	1G123738.D	06/01/16	15:05	05:22	(unrelated sample)
ZZZZZZ	1G123739.D	06/01/16	15:22	05:40	(unrelated sample)
ZZZZZZ	1G123740.D	06/01/16	15:40	05:57	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4001-DDT
Lab File ID: 1G123743.D
Instrument ID: GC1G
Injection Date: 06/01/16
Injection Time: 18:06

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2314287	17705828
4,4'-DDE	723759	7479630
4,4'-DDT	321897908	1566012193
DDT Breakdown [a]	0.9 %	1.6 %
Endrin aldehyde	1692180	9464686
Endrin ketone	7202794	41927834
Endrin	162166888	864720857
Endrin Breakdown [b]	5.2 %	5.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G4001-CC3988	1G123744.D	06/01/16	18:23	00:17	Continuing cal 25
OP94349-MB1	1G123746.D	06/01/16	18:58	00:53	Method Blank
OP94265-MB1	1G123748.D	06/01/16	19:33	01:28	Method Blank
OP94265-BS1	1G123749.D	06/01/16	19:51	01:45	Blank Spike
OP94273-MB1	1G123750.D	06/01/16	20:08	02:03	Method Blank
OP94273-BS1	1G123751.D	06/01/16	20:26	02:21	Blank Spike
JC20904-1	1G123752.D	06/01/16	20:44	02:38	(used for QC only; not part of job JC21229)
OP94273-MS	1G123753.D	06/01/16	21:01	02:56	Matrix Spike
OP94273-MSD	1G123754.D	06/01/16	21:19	03:13	Matrix Spike Duplicate
ZZZZZZ	1G123755.D	06/01/16	21:36	03:31	(unrelated sample)
ZZZZZZ	1G123756.D	06/01/16	21:54	03:48	(unrelated sample)
ZZZZZZ	1G123757.D	06/01/16	22:12	04:06	(unrelated sample)
ZZZZZZ	1G123759.D	06/01/16	22:47	04:41	(unrelated sample)
ZZZZZZ	1G123762.D	06/01/16	23:39	05:33	(unrelated sample)
ZZZZZZ	1G123763.D	06/01/16	23:57	05:51	(unrelated sample)
ZZZZZZ	1G123764.D	06/02/16	00:15	06:09	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G1G4003-DDT
Lab File ID: 1G123816.D
Instrument ID: GC1G
Injection Date: 06/03/16
Injection Time: 09:39

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2949746	18455095
4,4'-DDE	3209301	23119091
4,4'-DDT	331352522	1592883606
DDT Breakdown [a]	1.8 %	2.5 %
Endrin aldehyde	1638242	9426789
Endrin ketone	6719943	36642723
Endrin	176704984	922600986
Endrin Breakdown [b]	4.5 %	4.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G4003-CC3988	1G123817.D	06/03/16	09:57	00:18	Continuing cal 50
OP94431-MB1	1G123819.D	06/03/16	10:32	00:52	Method Blank
OP94431-BS1	1G123820.D	06/03/16	10:49	01:09	Blank Spike
JC21229-3	1G123821.D	06/03/16	11:07	01:27	SB102-GWD
JC21347-3	1G123822.D	06/03/16	11:24	01:44	(used for QC only; not part of job JC21229)
ZZZZZZ	1G123823.D	06/03/16	11:42	02:02	(unrelated sample)
ZZZZZZ	1G123824.D	06/03/16	11:59	02:19	(unrelated sample)
ZZZZZZ	1G123825.D	06/03/16	12:17	02:37	(unrelated sample)
JC21229-4	1G123826.D	06/03/16	12:34	02:54	BPEB-30
OP94431-MS	1G123827.D	06/03/16	12:52	03:12	Matrix Spike
OP94431-MSD	1G123828.D	06/03/16	13:10	03:30	Matrix Spike Duplicate
ZZZZZZ	1G123829.D	06/03/16	13:27	03:48	(unrelated sample)
ZZZZZZ	1G123830.D	06/03/16	13:45	04:06	(unrelated sample)
ZZZZZZ	1G123831.D	06/03/16	14:02	04:23	(unrelated sample)
ZZZZZZ	1G123836.D	06/03/16	15:53	06:14	(unrelated sample)
ZZZZZZ	1G123837.D	06/03/16	16:11	06:32	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1799-DDT
Lab File ID: 4G68547.D
Instrument ID: GC4G
Injection Date: 05/24/16
Injection Time: 13:58

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	5786715	3081113
4,4'-DDE	10451938	9812735
4,4'-DDT	1356259389	1224798641
DDT Breakdown [a]	1.2 %	1 %
Endrin aldehyde	8983693	6689094
Endrin ketone	28527956	25918264
Endrin	668892548	589906130
Endrin Breakdown [b]	5.3 %	5.2 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1799-IC1799	4G68549A.D	05/24/16	14:33	00:35	Initial cal 1
G4G1799-IC1799	4G68550A.D	05/24/16	14:48	00:50	Initial cal 2
G4G1799-IC1799	4G68551A.D	05/24/16	15:03	01:05	Initial cal 5
G4G1799-IC1799	4G68552A.D	05/24/16	15:18	01:20	Initial cal 10
G4G1799-ICC1799	4G68553A.D	05/24/16	15:33	01:35	Initial cal 25
G4G1799-IC1799	4G68554A.D	05/24/16	15:48	01:50	Initial cal 50
G4G1799-IC1799	4G68555A.D	05/24/16	16:03	02:05	Initial cal 75
G4G1799-IC1799	4G68556A.D	05/24/16	16:18	02:20	Initial cal 100
G4G1799-IC1799	4G68557A.D	05/24/16	17:17	03:19	Initial cal 500
G4G1799-IC1799	4G68558A.D	05/24/16	17:32	03:34	Initial cal 500
G4G1799-ICV1799	4G68559A.D	05/24/16	17:47	03:49	Initial cal verification 25
G4G1799-ICV1799	4G68560A.D	05/24/16	18:02	04:04	Initial cal verification 25
G4G1799-ICV1799	4G68561A.D	05/24/16	18:17	04:19	Initial cal verification 500
G4G1799-ICV1799	4G68562A.D	05/24/16	18:32	04:34	Initial cal verification 500

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1806-DDT
Lab File ID: 4G68814.D
Instrument ID: GC4G
Injection Date: 06/02/16
Injection Time: 09:21

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	6035118	5727550
4,4'-DDE	7832053	3715791
4,4'-DDT	653002778	545561959
DDT Breakdown [a]	2.1 %	1.7 %
Endrin aldehyde	4007370	4388480
Endrin ketone	13437867	22908593
Endrin	346121655	296271158
Endrin Breakdown [b]	4.8 %	8.4 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1806-CC1799	4G68815.D	06/02/16	09:36	00:15	Continuing cal 50
ZZZZZZ	4G68818.D	06/02/16	10:21	01:00	(unrelated sample)
ZZZZZZ	4G68819.D	06/02/16	10:36	01:15	(unrelated sample)
G4G1806-CC1799	4G68823.D	06/02/16	12:08	02:47	Continuing cal 25
OP94393-MB1	4G68825.D	06/02/16	12:38	03:17	Method Blank
OP94393-BS1	4G68826.D	06/02/16	12:53	03:32	Blank Spike
ZZZZZZ	4G68827.D	06/02/16	13:08	03:47	(unrelated sample)
ZZZZZZ	4G68828.D	06/02/16	13:23	04:02	(unrelated sample)
ZZZZZZ	4G68829.D	06/02/16	13:38	04:17	(unrelated sample)
ZZZZZZ	4G68830.D	06/02/16	13:53	04:32	(unrelated sample)
ZZZZZZ	4G68831.D	06/02/16	14:08	04:47	(unrelated sample)
JC21223-27	4G68832.D	06/02/16	14:23	05:02	(used for QC only; not part of job JC21229)
OP94393-MS	4G68833.D	06/02/16	16:52	07:31	Matrix Spike
OP94393-MSD	4G68834.D	06/02/16	17:07	07:46	Matrix Spike Duplicate
ZZZZZZ	4G68835.D	06/02/16	17:22	08:01	(unrelated sample)
ZZZZZZ	4G68836.D	06/02/16	17:37	08:16	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1811-DDT
Lab File ID: 4G68894.D
Instrument ID: GC4G
Injection Date: 06/06/16
Injection Time: 11:16

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8531892	7977095
4,4'-DDE	5502948	4446393
4,4'-DDT	858412356	663986238
DDT Breakdown [a]	1.6 %	1.8 %
Endrin aldehyde	14921308	11478096
Endrin ketone	30057749	20303559
Endrin	428166096	341253512
Endrin Breakdown [b]	9.5 %	8.5 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1811-IC1811	4G68896.D	06/06/16	11:46	00:30	Initial cal 1
G4G1811-IC1811	4G68897.D	06/06/16	12:01	00:45	Initial cal 2
G4G1811-IC1811	4G68898.D	06/06/16	12:16	01:00	Initial cal 5
G4G1811-IC1811	4G68899.D	06/06/16	12:31	01:15	Initial cal 10
G4G1811-ICC1811	4G68900.D	06/06/16	12:46	01:30	Initial cal 25
G4G1811-IC1811	4G68901.D	06/06/16	13:01	01:45	Initial cal 50
G4G1811-IC1811	4G68902.D	06/06/16	13:16	02:00	Initial cal 75
G4G1811-IC1811	4G68903.D	06/06/16	13:31	02:15	Initial cal 100
G4G1811-IC1811	4G68904.D	06/06/16	13:46	02:30	Initial cal 500
G4G1811-IC1811	4G68905.D	06/06/16	14:01	02:45	Initial cal 500
G4G1811-ICV1811	4G68906.D	06/06/16	14:16	03:00	Initial cal verification 25
G4G1811-ICV1811	4G68907.D	06/06/16	14:31	03:15	Initial cal verification 25
G4G1811-ICV1811	4G68908.D	06/06/16	14:46	03:30	Initial cal verification 500
G4G1811-ICV1811	4G68909.D	06/06/16	15:01	03:45	Initial cal verification 500
G4G1812-CC1811	4G68910.D	06/06/16	16:03	04:47	Continuing cal 25
G4G1812-CC1811	4G68912.D	06/06/16	17:33	06:17	Continuing cal 500
G4G1812-CC1811	4G68913.D	06/06/16	17:48	06:32	Continuing cal 500
OP94421-MB1	4G68915.D	06/06/16	18:18	07:02	Method Blank
OP94421-BS1	4G68916.D	06/06/16	18:33	07:17	Blank Spike
OP94421-BS13	4G68917.D	06/06/16	18:48	07:32	Blank Spike
OP94421-BSD13	4G68918.D	06/06/16	19:03	07:47	Blank Spike Duplicate
OP94421-BS14	4G68919.D	06/06/16	19:18	08:02	Blank Spike
OP94421-BSD14	4G68920.D	06/06/16	19:33	08:17	Blank Spike Duplicate
G4G1812-CC1811	4G68921.D	06/06/16	19:48	08:32	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1811-DDT
Lab File ID: 4G68894.D
Instrument ID: GC4G
Injection Date: 06/06/16
Injection Time: 11:16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1812-CC1811	4G68922.D	06/06/16	20:03	08:47	Continuing cal 500
G4G1812-CC1811	4G68923.D	06/06/16	20:18	09:02	Continuing cal 500
ZZZZZZ	4G68925.D	06/06/16	20:48	09:32	(unrelated sample)
JC21346-2	4G68926.D	06/06/16	21:03	09:47	(used for QC only; not part of job JC21229)
OP94421-MS	4G68927.D	06/06/16	21:18	10:02	Matrix Spike
OP94421-MSD	4G68928.D	06/06/16	21:33	10:17	Matrix Spike Duplicate
ZZZZZZ	4G68929.D	06/06/16	21:49	10:33	(unrelated sample)
ZZZZZZ	4G68930.D	06/06/16	22:04	10:48	(unrelated sample)
G4G1812-CC1811	4G68934.D	06/06/16	22:18	11:02	Continuing cal 25
G4G1812-CC1811	4G68935.D	06/06/16	22:33	11:17	Continuing cal 500
G4G1812-CC1811	4G68936.D	06/06/16	22:48	11:32	Continuing cal 500

DDT/Endrin Breakdown Check

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: G4G1813-DDT
Lab File ID: 4G68938.D
Instrument ID: GC4G
Injection Date: 06/07/16
Injection Time: 09:06

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	8472182	6869642
4,4'-DDE	10107599	6884651
4,4'-DDT	885707346	686826604
DDT Breakdown [a]	2.1 %	2 %
Endrin aldehyde	4435095	3778344
Endrin ketone	19928940	13299705
Endrin	474502174	381882733
Endrin Breakdown [b]	4.9 %	4.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G4G1813-CC1811	4G68939.D	06/07/16	09:21	00:15	Continuing cal 50
G4G1813-CC1811	4G68941.D	06/07/16	10:04	00:58	Continuing cal 500
G4G1813-CC1811	4G68942.D	06/07/16	10:19	01:13	Continuing cal 500
ZZZZZZ	4G68944.D	06/07/16	10:49	01:43	(unrelated sample)
ZZZZZZ	4G68945.D	06/07/16	11:04	01:58	(unrelated sample)
ZZZZZZ	4G68946.D	06/07/16	11:19	02:13	(unrelated sample)
G4G1813-CC1811	4G68947.D	06/07/16	11:57	02:51	Continuing cal 25
G4G1813-CC1811	4G68948.D	06/07/16	12:12	03:06	Continuing cal 500
G4G1813-CC1811	4G68949.D	06/07/16	12:27	03:21	Continuing cal 500
ZZZZZZ	4G68951.D	06/07/16	13:01	03:55	(unrelated sample)
ZZZZZZ	4G68952.D	06/07/16	13:16	04:10	(unrelated sample)
ZZZZZZ	4G68953.D	06/07/16	13:31	04:25	(unrelated sample)
ZZZZZZ	4G68954.D	06/07/16	13:46	04:40	(unrelated sample)
JC21229-1	4G68955.D	06/07/16	14:01	04:55	SB102 (5.5-6.5)
JC21229-2	4G68956.D	06/07/16	14:16	05:10	SB102 (7-8)
ZZZZZZ	4G68957.D	06/07/16	14:31	05:25	(unrelated sample)

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123682.D	**Injection Time:**	10:35
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94349-BS1	**Injection Date:**	05/31/16
Lab File ID:	1G123693.D	**Injection Time:**	12:03
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.51	3.52	0.32		ug/l	0.0
Aldrin	2	4.31	4.31	0.32		ug/l	
alpha-BHC	1	2.40	2.40	0.31		ug/l	3.3
alpha-BHC	2 [a]	2.92	2.92	0.30		ug/l	
beta-BHC	1	2.77	2.78	0.29		ug/l	0.0
beta-BHC	2 [a]	3.41	3.41	0.29		ug/l	
delta-BHC	1 [a]	2.96	2.96	0.28		ug/l	0.0
delta-BHC	2	3.79	3.79	0.28		ug/l	
gamma-BHC (Lindane)	1	2.70	2.70	0.30		ug/l	0.0
gamma-BHC (Lindane)	2 [a]	3.33	3.33	0.30		ug/l	
alpha-Chlordane	1 [a]	4.55	4.56	0.30		ug/l	3.3
alpha-Chlordane	2	5.60	5.61	0.31		ug/l	
gamma-Chlordane	1 [a]	4.38	4.39	0.31		ug/l	3.2
gamma-Chlordane	2	5.38	5.39	0.32		ug/l	
Dieldrin	1 [a]	5.05	5.06	0.31		ug/l	6.3
Dieldrin	2	6.12	6.12	0.33		ug/l	
4,4'-DDD	1 [a]	5.49	5.50	0.30		ug/l	9.5
4,4'-DDD	2	6.80	6.80	0.33		ug/l	
4,4'-DDE	1 [a]	4.66	4.67	0.31		ug/l	6.3
4,4'-DDE	2	5.87	5.87	0.33		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.29		ug/l	9.8
4,4'-DDT	2	7.32	7.32	0.32		ug/l	
Endrin	1 [a]	5.37	5.38	0.33		ug/l	5.9
Endrin	2	6.61	6.61	0.35		ug/l	
Endosulfan sulfate	1	7.01	7.02	0.24		ug/l	22.2
Endosulfan sulfate [b]	2 [a]	7.98	7.98	0.30		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.30		ug/l	3.3
Endrin aldehyde	2	7.52	7.52	0.31		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.23		ug/l	12.2
Endrin ketone	2	8.92	8.92	0.26		ug/l	
Endosulfan-I	1 [a]	4.73	4.74	0.30		ug/l	9.5
Endosulfan-I	2	5.69	5.70	0.33		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.29		ug/l	6.7
Endosulfan-II	2	6.95	6.95	0.31		ug/l	
Heptachlor	1 [a]	3.18	3.19	0.30		ug/l	0.0
Heptachlor	2	3.88	3.88	0.30		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.31		ug/l	9.2
Heptachlor epoxide	2	5.11	5.11	0.34		ug/l	
Methoxychlor	1 [a]	6.68	6.69	0.27		ug/l	20.0
Methoxychlor	2	8.55	8.56	0.33		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123682.D	**Injection Time:**	10:35
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94349-BS1	**Injection Date:**	05/31/16
Lab File ID:	1G123693.D	**Injection Time:**	12:03
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(b) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.

10.7.1

10

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1806-CC1799	**Injection Date:**	06/02/16
Lab File ID:	4G68823.D	**Injection Time:**	12:08
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP94393-BS1	**Injection Date:**	06/02/16
Lab File ID:	4G68826.D	**Injection Time:**	12:53
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1	4.04	4.04	13.4		ug/kg	5.4
Aldrin	2 [a]	4.92	4.92	12.7		ug/kg	
alpha-BHC	1 [a]	2.91	2.91	12.5		ug/kg	2.4
alpha-BHC	2	3.48	3.48	12.8		ug/kg	
beta-BHC	1	3.28	3.28	12.9		ug/kg	0.0
beta-BHC	2 [a]	3.98	3.98	12.9		ug/kg	
delta-BHC	1	3.47	3.47	13.8		ug/kg	2.9
delta-BHC	2 [a]	4.37	4.37	13.4		ug/kg	
gamma-BHC (Lindane)	1	3.21	3.20	13.1		ug/kg	1.5
gamma-BHC (Lindane)	2 [a]	3.90	3.90	12.9		ug/kg	
alpha-Chlordane	1	5.11	5.10	14.5		ug/kg	11.7
alpha-Chlordane	2 [a]	6.25	6.25	12.9		ug/kg	
gamma-Chlordane	1	4.93	4.93	14.3		ug/kg	8.0
gamma-Chlordane	2 [a]	6.02	6.02	13.2		ug/kg	
Dieldrin	1	5.62	5.62	14.3		ug/kg	6.5
Dieldrin	2 [a]	6.78	6.78	13.4		ug/kg	
4,4'-DDD	1	6.06	6.07	13.8		ug/kg	0.7
4,4'-DDD	2 [a]	7.45	7.46	13.7		ug/kg	
4,4'-DDE	1	5.21	5.21	13.9		ug/kg	8.2
4,4'-DDE	2 [a]	6.51	6.51	12.8		ug/kg	
4,4'-DDT [b]	1 [a]	6.49	6.48	13.0		ug/kg	9.7
4,4'-DDT [b]	2	7.99	7.99	11.8		ug/kg	
Endrin	1	5.95	5.95	15.2		ug/kg	6.8
Endrin	2 [a]	7.28	7.28	14.2		ug/kg	
Endosulfan sulfate	1	7.62	7.62	13.9		ug/kg	20.6
Endosulfan sulfate	2 [a]	8.66	8.66	11.3		ug/kg	
Endrin aldehyde	1	6.92	6.92	13.8		ug/kg	16.5
Endrin aldehyde	2 [a]	8.20	8.20	11.7		ug/kg	
Endosulfan-I	1	5.29	5.29	13.9		ug/kg	8.2
Endosulfan-I	2 [a]	6.34	6.34	12.8		ug/kg	
Endosulfan-II	1	6.28	6.28	14.1		ug/kg	16.1
Endosulfan-II	2 [a]	7.63	7.63	12.0		ug/kg	
Heptachlor	1	3.70	3.70	13.5		ug/kg	7.7
Heptachlor	2 [a]	4.47	4.47	12.5		ug/kg	
Heptachlor epoxide	1	4.77	4.77	14.4		ug/kg	8.7
Heptachlor epoxide	2 [a]	5.74	5.74	13.2		ug/kg	
Methoxychlor [b]	1 [a]	7.27	7.28	13.5		ug/kg	30.8
Methoxychlor [b]	2	9.22	9.23	9.9		ug/kg	
Endrin ketone	1	8.06	8.06	13.6		ug/kg	18.5
Endrin ketone	2 [a]	9.62	9.62	11.3		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1806-CC1799	**Injection Date:**	06/02/16
Lab File ID:	4G68823.D	**Injection Time:**	12:08
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP94393-BS1	**Injection Date:**	06/02/16
Lab File ID:	4G68826.D	**Injection Time:**	12:53
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc

(b) Reported from 1st signal. %D of check on 2nd signal exceed method criteria (20%) so using for confirmation only.

10.7.2

10

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94431-BS1	**Injection Date:**	06/03/16
Lab File ID:	1G123820.D	**Injection Time:**	10:49
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	0.24		ug/l	4.1
Aldrin	2	4.33	4.33	0.25		ug/l	
alpha-BHC	1 [a]	2.41	2.41	0.23		ug/l	0.0
alpha-BHC	2	2.93	2.93	0.23		ug/l	
beta-BHC	1 [a]	2.78	2.78	0.23		ug/l	4.3
beta-BHC	2	3.42	3.42	0.24		ug/l	
delta-BHC	1	2.97	2.97	0.24		ug/l	4.3
delta-BHC	2 [a]	3.80	3.80	0.23		ug/l	
gamma-BHC (Lindane)	1 [a]	2.71	2.70	0.24		ug/l	0.0
gamma-BHC (Lindane)	2	3.34	3.34	0.24		ug/l	
alpha-Chlordane	1 [a]	4.56	4.56	0.25		ug/l	7.7
alpha-Chlordane	2	5.62	5.62	0.27		ug/l	
gamma-Chlordane	1 [a]	4.39	4.39	0.25		ug/l	7.7
gamma-Chlordane	2	5.40	5.40	0.27		ug/l	
Dieldrin	1 [a]	5.06	5.06	0.26		ug/l	7.4
Dieldrin	2	6.13	6.14	0.28		ug/l	
4,4'-DDD	1 [a]	5.50	5.50	0.25		ug/l	11.3
4,4'-DDD	2	6.82	6.82	0.28		ug/l	
4,4'-DDE	1 [a]	4.67	4.67	0.24		ug/l	11.8
4,4'-DDE	2	5.89	5.89	0.27		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.24		ug/l	11.8
4,4'-DDT	2	7.34	7.34	0.27		ug/l	
Endrin	1 [a]	5.38	5.38	0.28		ug/l	6.9
Endrin	2	6.63	6.63	0.30		ug/l	
Endosulfan sulfate	1 [a]	7.02	7.02	0.23		ug/l	12.2
Endosulfan sulfate	2	8.00	8.00	0.26		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.24		ug/l	8.0
Endrin aldehyde	2	7.54	7.54	0.26		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.22		ug/l	12.8
Endrin ketone	2	8.94	8.94	0.25		ug/l	
Endosulfan-I	1 [a]	4.74	4.74	0.25		ug/l	11.3
Endosulfan-I	2	5.71	5.71	0.28		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.25		ug/l	7.7
Endosulfan-II	2	6.97	6.97	0.27		ug/l	
Heptachlor	1 [a]	3.19	3.19	0.24		ug/l	0.0
Heptachlor	2	3.89	3.89	0.24		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.25		ug/l	11.3
Heptachlor epoxide	2	5.12	5.12	0.28		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.25		ug/l	11.3
Methoxychlor	2	8.58	8.58	0.28		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123703.D	**Injection Time:**	18:48
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94349-BSD	**Injection Date:**	05/31/16
Lab File ID:	1G123710.D	**Injection Time:**	19:58
Client ID:	Blank Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.51	3.51	0.21		ug/l	13.3
Aldrin	2	4.31	4.31	0.24		ug/l	
alpha-BHC	1 [a]	2.40	2.40	0.25		ug/l	3.9
alpha-BHC	2	2.92	2.91	0.26		ug/l	
beta-BHC	1 [a]	2.77	2.77	0.25		ug/l	3.9
beta-BHC	2	3.41	3.41	0.26		ug/l	
delta-BHC	1 [a]	2.96	2.96	0.26		ug/l	0.0
delta-BHC	2	3.79	3.79	0.26		ug/l	
gamma-BHC (Lindane)	1 [a]	2.69	2.69	0.26		ug/l	0.0
gamma-BHC (Lindane)	2	3.33	3.33	0.26		ug/l	
alpha-Chlordane	1 [a]	4.55	4.55	0.26		ug/l	7.4
alpha-Chlordane	2	5.60	5.60	0.28		ug/l	
gamma-Chlordane	1 [a]	4.38	4.38	0.25		ug/l	11.3
gamma-Chlordane	2	5.38	5.38	0.28		ug/l	
Dieldrin	1 [a]	5.05	5.05	0.27		ug/l	7.1
Dieldrin	2	6.12	6.12	0.29		ug/l	
4,4'-DDD	1 [a]	5.49	5.49	0.26		ug/l	17.5
4,4'-DDD	2	6.80	6.80	0.31		ug/l	
4,4'-DDE	1 [a]	4.66	4.66	0.25		ug/l	11.3
4,4'-DDE	2	5.87	5.87	0.28		ug/l	
4,4'-DDT	1 [a]	5.90	5.91	0.25		ug/l	11.3
4,4'-DDT	2	7.32	7.32	0.28		ug/l	
Endrin	1 [a]	5.37	5.37	0.29		ug/l	9.8
Endrin	2	6.61	6.61	0.32		ug/l	
Endosulfan sulfate	1 [a]	7.01	7.01	0.25		ug/l	11.3
Endosulfan sulfate	2	7.98	7.98	0.28		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.27		ug/l	7.1
Endrin aldehyde	2	7.52	7.52	0.29		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.26		ug/l	10.9
Endrin ketone	2	8.92	8.92	0.29		ug/l	
Endosulfan-I	1 [a]	4.73	4.73	0.26		ug/l	10.9
Endosulfan-I	2	5.69	5.69	0.29		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.26		ug/l	7.4
Endosulfan-II	2	6.95	6.95	0.28		ug/l	
Heptachlor	1 [a]	3.18	3.18	0.23		ug/l	4.3
Heptachlor	2	3.88	3.88	0.24		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.27		ug/l	10.5
Heptachlor epoxide	2	5.11	5.11	0.30		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.26		ug/l	10.9
Methoxychlor	2	8.56	8.56	0.29		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1806-CC1799	**Injection Date:**	06/02/16
Lab File ID:	4G68823.D	**Injection Time:**	12:08
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP94393-MS	**Injection Date:**	06/02/16
Lab File ID:	4G68833.D	**Injection Time:**	16:52
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.05	4.04	15.4		ug/kg	18.4
Aldrin	2	4.91	4.92	12.8		ug/kg	
alpha-BHC	1 [a]	2.91	2.91	15.7		ug/kg	22.7
alpha-BHC	2	3.46	3.48	12.5		ug/kg	
beta-BHC	1 [a]	3.29	3.28	9.9		ug/kg	23.2
beta-BHC	2	3.96	3.98	12.5		ug/kg	
delta-BHC	1 [a]	3.48	3.47	16.5		ug/kg	20.7
delta-BHC	2	4.36	4.37	13.4		ug/kg	
gamma-BHC (Lindane)	1 [a]	3.21	3.20	14.9		ug/kg	5.2
gamma-BHC (Lindane)	2	3.88	3.90	15.7		ug/kg	
alpha-Chlordane	1	5.11	5.10	26.3		ug/kg	39.6
alpha-Chlordane	2 [a]	6.23	6.25	17.6		ug/kg	
gamma-Chlordane	1	4.94	4.93	19.0		ug/kg	31.7
gamma-Chlordane	2 [a]	6.01	6.02	13.8		ug/kg	
Dieldrin	1	5.63	5.62	14.2		ug/kg	33.9
Dieldrin	2 [a]	6.76	6.78	20.0		ug/kg	
4,4'-DDD	1 [a]	6.07	6.07	15.8		ug/kg	4.9
4,4'-DDD	2	7.44	7.46	16.6		ug/kg	
4,4'-DDE	1	5.22	5.21	15.6		ug/kg	15.9
4,4'-DDE	2 [a]	6.49	6.51	13.3		ug/kg	
4,4'-DDT	1	6.49	6.48	30.0		ug/kg	14.3
4,4'-DDT	2 [a]	7.98	7.99	26.0		ug/kg	
Endrin	1 [a]	5.96	5.95	17.8		ug/kg	17.1
Endrin	2	7.27	7.28	15.0		ug/kg	
Endosulfan sulfate	1 [a]	7.63	7.62	12.6		ug/kg	13.3
Endosulfan sulfate	2	8.65	8.66	14.4		ug/kg	
Endrin aldehyde	1 [a]	6.93	6.92	16.0		ug/kg	53.0
Endrin aldehyde	2	8.19	8.20	9.3		ug/kg	
Endosulfan-I	1 [a]	5.30	5.29	16.2		ug/kg	30.6
Endosulfan-I	2	6.33	6.34	11.9		ug/kg	
Endosulfan-II	1 [a]	6.29	6.28	13.9		ug/kg	13.0
Endosulfan-II	2	7.62	7.63	12.2		ug/kg	
Heptachlor	1 [a]	3.71	3.70	15.1		ug/kg	15.7
Heptachlor	2	4.46	4.47	12.9		ug/kg	
Heptachlor epoxide	1	4.78	4.77	17.0		ug/kg	23.0
Heptachlor epoxide	2 [a]	5.73	5.74	13.5		ug/kg	
Methoxychlor	1 [a]	7.28	7.28	14.1		ug/kg	45.2
Methoxychlor	2	9.22	9.23	8.9		ug/kg	
Endrin ketone	1 [a]	8.07	8.06	24.3		ug/kg	62.7
Endrin ketone	2	9.61	9.62	12.7		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94431-MS	**Injection Date:**	06/03/16
Lab File ID:	1G123827.D	**Injection Time:**	12:52
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	0.36		ug/l	13.0
Aldrin	2	4.33	4.33	0.41		ug/l	
alpha-BHC	1 [a]	2.41	2.41	0.67		ug/l	12.7
alpha-BHC	2	2.93	2.93	0.59		ug/l	
beta-BHC	1 [a]	2.78	2.78	0.61		ug/l	4.8
beta-BHC	2	3.42	3.42	0.64		ug/l	
delta-BHC	1 [a]	2.97	2.97	0.63		ug/l	3.2
delta-BHC	2	3.80	3.80	0.61		ug/l	
gamma-BHC (Lindane)	1 [a]	2.70	2.70	0.63		ug/l	3.2
gamma-BHC (Lindane)	2	3.34	3.34	0.61		ug/l	
alpha-Chlordane	1 [a]	4.56	4.56	0.45		ug/l	6.5
alpha-Chlordane	2	5.62	5.62	0.48		ug/l	
gamma-Chlordane	1 [a]	4.39	4.39	0.44		ug/l	14.7
gamma-Chlordane	2	5.40	5.40	0.51		ug/l	
Dieldrin	1 [a]	5.06	5.06	0.59		ug/l	3.3
Dieldrin	2	6.13	6.14	0.61		ug/l	
4,4'-DDD	1 [a]	5.50	5.50	0.41		ug/l	11.5
4,4'-DDD	2	6.82	6.82	0.46		ug/l	
4,4'-DDE	1 [a]	4.67	4.67	0.28		ug/l	13.3
4,4'-DDE	2	5.89	5.89	0.32		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.24		ug/l	15.4
4,4'-DDT	2	7.34	7.34	0.28		ug/l	
Endrin	1 [a]	5.38	5.38	0.66		ug/l	3.0
Endrin	2	6.63	6.63	0.68		ug/l	
Endosulfan sulfate	1 [a]	7.01	7.02	0.58		ug/l	9.8
Endosulfan sulfate	2	8.00	8.00	0.64		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.67		ug/l	4.4
Endrin aldehyde	2	7.54	7.54	0.70		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.62		ug/l	6.3
Endrin ketone	2	8.94	8.94	0.66		ug/l	
Endosulfan-I	1 [a]	4.74	4.74	0.59		ug/l	8.1
Endosulfan-I	2	5.71	5.71	0.64		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.62		ug/l	3.2
Endosulfan-II	2	6.97	6.97	0.64		ug/l	
Heptachlor	1 [a]	3.19	3.19	0.46		ug/l	2.2
Heptachlor	2	3.89	3.89	0.45		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.62		ug/l	4.7
Heptachlor epoxide	2	5.12	5.12	0.65		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.36		ug/l	13.0
Methoxychlor	2	8.58	8.58	0.41		ug/l	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1806-CC1799	**Injection Date:**	06/02/16
Lab File ID:	4G68823.D	**Injection Time:**	12:08
Instrument ID:	GC4G	**Method:**	SW846 8081B

Sample ID:	OP94393-MSD	**Injection Date:**	06/02/16
Lab File ID:	4G68834.D	**Injection Time:**	17:07
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	4.04	4.04	13.6		ug/kg	20.2
Aldrin	2	4.92	4.92	11.1		ug/kg	
alpha-BHC	1 [a]	2.91	2.91	13.8		ug/kg	22.6
alpha-BHC	2	3.48	3.48	11.0		ug/kg	
beta-BHC	1 [a]	3.28	3.28	10.1		ug/kg	7.6
beta-BHC	2	3.98	3.98	10.9		ug/kg	
delta-BHC	1 [a]	3.47	3.47	13.9		ug/kg	17.2
delta-BHC	2	4.37	4.37	11.7		ug/kg	
gamma-BHC (Lindane)	1 [a]	3.21	3.20	13.2		ug/kg	9.5
gamma-BHC (Lindane)	2	3.90	3.90	12.0		ug/kg	
alpha-Chlordane	1	5.11	5.10	24.7		ug/kg	39.2
alpha-Chlordane	2 [a]	6.25	6.25	16.6		ug/kg	
gamma-Chlordane	1	4.94	4.93	18.1		ug/kg	19.4
gamma-Chlordane	2 [a]	6.02	6.02	14.9		ug/kg	
Dieldrin	1	5.62	5.62	22.0		ug/kg	18.4
Dieldrin	2 [a]	6.78	6.78	18.3		ug/kg	
4,4'-DDD	1 [a]	6.06	6.07	13.3		ug/kg	5.4
4,4'-DDD	2	7.45	7.46	12.6		ug/kg	
4,4'-DDE	1	5.21	5.21	14.7		ug/kg	21.9
4,4'-DDE	2 [a]	6.51	6.51	11.8		ug/kg	
4,4'-DDT	1	6.49	6.48	28.3		ug/kg	12.4
4,4'-DDT	2 [a]	7.99	7.99	25.0		ug/kg	
Endrin	1 [a]	5.95	5.95	13.5		ug/kg	13.4
Endrin	2	7.28	7.28	11.8		ug/kg	
Endosulfan sulfate	1 [a]	7.62	7.62	11.3		ug/kg	6.4
Endosulfan sulfate	2	8.66	8.66	10.6		ug/kg	
Endrin aldehyde	1 [a]	6.92	6.92	12.1		ug/kg	39.6
Endrin aldehyde	2	8.20	8.20	8.1		ug/kg	
Endosulfan-I	1 [a]	5.29	5.29	13.3		ug/kg	18.0
Endosulfan-I	2	6.34	6.34	11.1		ug/kg	
Endosulfan-II	1 [a]	6.28	6.28	11.9		ug/kg	11.6
Endosulfan-II	2	7.63	7.63	10.6		ug/kg	
Heptachlor	1 [a]	3.70	3.70	14.3		ug/kg	27.0
Heptachlor	2	4.47	4.47	10.9		ug/kg	
Heptachlor epoxide	1	4.77	4.77	15.2		ug/kg	22.7
Heptachlor epoxide	2 [a]	5.74	5.74	12.1		ug/kg	
Methoxychlor	1 [a]	7.27	7.28	10.6		ug/kg	26.7
Methoxychlor	2	9.22	9.23	8.1		ug/kg	
Endrin ketone	1 [a]	8.06	8.06	15.8		ug/kg	55.9
Endrin ketone	2	9.62	9.62	8.9		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

Sample ID:	OP94431-MSD	**Injection Date:**	06/03/16
Lab File ID:	1G123828.D	**Injection Time:**	13:10
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Aldrin	1 [a]	3.52	3.52	0.38		ug/l	10.0
Aldrin	2	4.33	4.33	0.42		ug/l	
alpha-BHC	1 [a]	2.41	2.41	0.65		ug/l	11.4
alpha-BHC	2	2.93	2.93	0.58		ug/l	
beta-BHC	1 [a]	2.78	2.78	0.59		ug/l	6.6
beta-BHC	2	3.42	3.42	0.63		ug/l	
delta-BHC	1 [a]	2.97	2.97	0.61		ug/l	5.0
delta-BHC	2	3.80	3.80	0.58		ug/l	
gamma-BHC (Lindane)	1 [a]	2.70	2.70	0.61		ug/l	1.7
gamma-BHC (Lindane)	2	3.34	3.34	0.60		ug/l	
alpha-Chlordane	1 [a]	4.56	4.56	0.45		ug/l	4.3
alpha-Chlordane	2	5.62	5.62	0.47		ug/l	
gamma-Chlordane	1 [a]	4.39	4.39	0.45		ug/l	10.5
gamma-Chlordane	2	5.40	5.40	0.50		ug/l	
Dieldrin	1 [a]	5.06	5.06	0.58		ug/l	3.4
Dieldrin	2	6.13	6.14	0.60		ug/l	
4,4'-DDD	1 [a]	5.50	5.50	0.41		ug/l	13.6
4,4'-DDD	2	6.82	6.82	0.47		ug/l	
4,4'-DDE	1 [a]	4.67	4.67	0.29		ug/l	12.9
4,4'-DDE	2	5.88	5.89	0.33		ug/l	
4,4'-DDT	1 [a]	5.91	5.91	0.26		ug/l	10.9
4,4'-DDT	2	7.34	7.34	0.29		ug/l	
Endrin	1 [a]	5.38	5.38	0.64		ug/l	4.6
Endrin	2	6.63	6.63	0.67		ug/l	
Endosulfan sulfate	1 [a]	7.02	7.02	0.56		ug/l	10.2
Endosulfan sulfate	2	8.00	8.00	0.62		ug/l	
Endrin aldehyde	1 [a]	6.33	6.33	0.64		ug/l	4.6
Endrin aldehyde	2	7.54	7.54	0.67		ug/l	
Endrin ketone	1 [a]	7.44	7.44	0.60		ug/l	4.9
Endrin ketone	2	8.94	8.94	0.63		ug/l	
Endosulfan-I	1 [a]	4.74	4.74	0.58		ug/l	6.7
Endosulfan-I	2	5.71	5.71	0.62		ug/l	
Endosulfan-II	1 [a]	5.70	5.70	0.60		ug/l	3.3
Endosulfan-II	2	6.97	6.97	0.62		ug/l	
Heptachlor	1 [a]	3.19	3.19	0.47		ug/l	4.3
Heptachlor	2	3.89	3.89	0.45		ug/l	
Heptachlor epoxide	1 [a]	4.23	4.23	0.61		ug/l	4.8
Heptachlor epoxide	2	5.12	5.12	0.64		ug/l	
Methoxychlor	1 [a]	6.69	6.69	0.37		ug/l	12.7
Methoxychlor	2	8.58	8.58	0.42		ug/l	

(a) QC results reported from this column.

Semivolatile Surrogate Recovery Summary

Job Number: JC21229
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]
JC21229-3	1G123741.D	117	117	69	81
JC21229-3	1G123821.D	91	88	46	52
JC21229-4	1G123826.D	100	89	50	54
OP94349-BS1	1G123693.D	118	115	105	131* [c]
OP94349-BSD	1G123710.D	79	79	83	93
OP94349-MB1	1G123746.D	104	95	124* [c]	131* [c]
OP94431-BS1	1G123820.D	86	85	84	93
OP94431-MB1	1G123819.D	96	87	87	92
OP94431-MS	1G123827.D	90	83	34	38
OP94431-MSD	1G123828.D	95	87	33	37

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	26-132%
S2 = Decachlorobiphenyl	10-118%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside the QC limits.

Semivolatile Surrogate Recovery Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JC21229-1	4G68955.D	83	75	84	74
JC21229-2	4G68956.D	87	78	98	89
OP94393-BS1	4G68826.D	70	71	98	59
OP94393-MB1	4G68825.D	81	79	117	65
OP94393-MS	4G68833.D	70	64	85	72
OP94393-MSD	4G68834.D	63	57	65	57

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-136%
S2 = Decachlorobiphenyl	10-153%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1806-CC1799	**Injection Date:**	06/02/16
Lab File ID:	4G68823.D	**Injection Time:**	12:08
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.43	2.83	9.81	11.17

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94393-MB1	4G68825.D	06/02/16	12:38	2.43	2.83	9.81	11.17
OP94393-BS1	4G68826.D	06/02/16	12:53	2.43	2.83	9.81	11.16
ZZZZZZ	4G68827.D	06/02/16	13:08	2.43	2.83	9.81	11.16
ZZZZZZ	4G68828.D	06/02/16	13:23	2.44	2.83	9.82	11.17
ZZZZZZ	4G68829.D	06/02/16	13:38	2.43	2.83	9.81	11.17
ZZZZZZ	4G68830.D	06/02/16	13:53	2.43	2.83	9.81	11.16
ZZZZZZ	4G68831.D	06/02/16	14:08	2.43	2.83	9.81	11.17
JC21223-27	4G68832.D	06/02/16	14:23	2.43	2.83	9.81	11.17
OP94393-MS	4G68833.D	06/02/16	16:52	2.44	2.82	9.82	11.18
OP94393-MSD	4G68834.D	06/02/16	17:07	2.44	2.83	9.81	11.17
ZZZZZZ	4G68835.D	06/02/16	17:22	2.44	2.83	9.81	11.17
ZZZZZZ	4G68836.D	06/02/16	17:37	2.44	2.83	9.81	11.17

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G4G1813-CC1811	**Injection Date:**	06/07/16
Lab File ID:	4G68947.D	**Injection Time:**	11:57
Instrument ID:	GC4G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	2.43	2.81	9.81	11.16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
ZZZZZZ	4G68951.D	06/07/16	13:01	2.44	2.82	9.81	11.16
ZZZZZZ	4G68952.D	06/07/16	13:16	2.44	2.83	9.80	11.16
ZZZZZZ	4G68953.D	06/07/16	13:31	2.44	2.83	9.80	11.16
ZZZZZZ	4G68954.D	06/07/16	13:46	2.44	2.83	9.80	11.16
JC21229-1	4G68955.D	06/07/16	14:01	2.44	2.83	9.80	11.16
JC21229-2	4G68956.D	06/07/16	14:16	2.44	2.83	9.80	11.16
ZZZZZZ	4G68957.D	06/07/16	14:31	2.43	2.87	0.00	0.00

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123682.D	**Injection Time:**	10:35
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.92	2.28	9.22	10.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94349-BS1	1G123693.D	05/31/16	12:03	1.92	2.28	9.21	10.63
ZZZZZZ	1G123686.D	05/31/16	13:30	1.92	2.27	9.22	10.64
ZZZZZZ	1G123701.D	05/31/16	13:48	1.91	2.28	9.21	10.63
ZZZZZZ	1G123688.D	05/31/16	14:05	1.91	2.28	9.21	10.63
JC21030-4	1G123689.D	05/31/16	14:22	1.91	2.28	9.21	10.63
ZZZZZZ	1G123690.D	05/31/16	14:40	1.91	2.28	9.21	10.63
ZZZZZZ	1G123691.D	05/31/16	14:58	1.91	2.28	9.21	10.63
ZZZZZZ	1G123697.D	05/31/16	15:50	1.91	2.28	9.21	10.63
ZZZZZZ	1G123698.D	05/31/16	16:08	1.91	2.28	9.21	10.63
ZZZZZZ	1G123699.D	05/31/16	16:25	1.91	2.28	9.21	10.63
ZZZZZZ	1G123700.D	05/31/16	16:43	1.91	2.28	9.21	10.63

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4000-CC3988	**Injection Date:**	05/31/16
Lab File ID:	1G123703.D	**Injection Time:**	18:48
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.91	2.28	9.21	10.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94296-MB1	1G123705.D	05/31/16	19:23	1.91	2.28	9.21	10.63
OP94296-BS1	1G123706.D	05/31/16	19:40	1.91	2.28	9.21	10.63
OP94349-BSD	1G123710.D	05/31/16	19:58	1.91	2.28	9.21	10.63
OP94296-MS	1G123707.D	05/31/16	20:15	1.91	2.28	9.21	10.63
OP94296-MSD	1G123708.D	05/31/16	20:33	1.91	2.28	9.21	10.63
JC21002-29	1G123709.D	05/31/16	20:51	1.91	2.28	9.22	10.63
OP94238-MS	1G123711.D	05/31/16	21:08	1.91	2.28	9.22	10.63
OP94238-MSD	1G123712.D	05/31/16	21:26	1.91	2.28	9.21	10.63
ZZZZZZ	1G123713.D	05/31/16	21:43	1.91	2.28	9.22	10.63
ZZZZZZ	1G123714.D	05/31/16	22:01	1.91	2.28	9.22	10.63
OP94265-MS	1G123715.D	05/31/16	22:18	1.91	2.28	9.22	10.63
OP94265-MSD	1G123716.D	05/31/16	22:36	1.91	2.28	9.22	10.63
ZZZZZZ	1G123717.D	05/31/16	22:54	1.91	2.28	9.21	10.63
ZZZZZZ	1G123718.D	05/31/16	23:11	1.91	2.28	9.22	10.63
ZZZZZZ	1G123719.D	05/31/16	23:29	1.91	2.28	9.22	10.63
ZZZZZZ	1G123720.D	05/31/16	23:46	1.91	2.28	9.22	10.63
ZZZZZZ	1G123721.D	06/01/16	00:04	1.91	2.28	9.22	10.63

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4001-CC3988	**Injection Date:**	06/01/16
Lab File ID:	1G123723.D	**Injection Time:**	10:00
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.91	2.28	9.22	10.63

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94358-MB1	1G123725.D	06/01/16	11:00	1.92	2.28	9.22	10.63
OP94358-BS1	1G123726.D	06/01/16	11:17	1.91	2.28	9.22	10.64
ZZZZZZ	1G123727.D	06/01/16	11:35	1.91	2.28	9.22	10.64
ZZZZZZ	1G123728.D	06/01/16	11:52	1.91	2.28	9.22	10.64
JC21159-1	1G123729.D	06/01/16	12:10	1.91	2.28	9.22	10.64
OP94358-MS	1G123730.D	06/01/16	12:27	1.91	2.28	9.22	10.64
OP94358-MSD	1G123731.D	06/01/16	12:45	1.91	2.28	9.22	10.64
ZZZZZZ	1G123732.D	06/01/16	13:02	1.91	2.28	9.22	10.64
ZZZZZZ	1G123733.D	06/01/16	13:20	1.91	2.28	9.22	10.63
ZZZZZZ	1G123734.D	06/01/16	13:37	1.91	2.28	9.22	10.64
ZZZZZZ	1G123735.D	06/01/16	13:55	1.91	2.28	9.22	10.64
ZZZZZZ	1G123736.D	06/01/16	14:12	1.91	2.28	9.22	10.64
JC21229-3	1G123741.D	06/01/16	14:30	1.92	2.28	9.22	10.64
ZZZZZZ	1G123737.D	06/01/16	14:47	1.91	2.28	9.22	10.64
ZZZZZZ	1G123738.D	06/01/16	15:05	1.92	2.28	9.22	10.64
ZZZZZZ	1G123739.D	06/01/16	15:22	1.92	2.28	9.22	10.64
ZZZZZZ	1G123740.D	06/01/16	15:40	1.92	2.28	9.22	10.64

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4001-CC3988	**Injection Date:**	06/01/16
Lab File ID:	1G123744.D	**Injection Time:**	18:23
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.92	2.28	9.23	10.64

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94349-MB1	1G123746.D	06/01/16	18:58	1.92	2.28	9.23	10.64
OP94265-MB1	1G123748.D	06/01/16	19:33	1.92	2.28	9.23	10.64
OP94265-BS1	1G123749.D	06/01/16	19:51	1.92	2.28	9.23	10.64
OP94273-MB1	1G123750.D	06/01/16	20:08	1.92	2.28	9.23	10.64
OP94273-BS1	1G123751.D	06/01/16	20:26	1.92	2.28	9.23	10.64
JC20904-1	1G123752.D	06/01/16	20:44	1.92	2.28	9.23	10.64
OP94273-MS	1G123753.D	06/01/16	21:01	1.92	2.28	9.23	10.64
OP94273-MSD	1G123754.D	06/01/16	21:19	1.92	2.28	9.23	10.64
ZZZZZZ	1G123755.D	06/01/16	21:36	1.92	2.28	9.23	10.64
ZZZZZZ	1G123756.D	06/01/16	21:54	1.92	2.28	9.24	10.64
ZZZZZZ	1G123757.D	06/01/16	22:12	1.92	2.28	9.24	10.64
ZZZZZZ	1G123759.D	06/01/16	22:47	1.92	2.29	9.24	10.64
ZZZZZZ	1G123762.D	06/01/16	23:39	1.92	2.28	9.24	10.64
ZZZZZZ	1G123763.D	06/01/16	23:57	1.92	2.28	9.24	10.64
ZZZZZZ	1G123764.D	06/02/16	00:15	1.92	2.29	9.25	10.64

Surrogate Compounds

S1 = Tetrachloro-m-xylene
S2 = Decachlorobiphenyl

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	G1G4003-CC3988	**Injection Date:**	06/03/16
Lab File ID:	1G123817.D	**Injection Time:**	09:57
Instrument ID:	GC1G	**Method:**	SW846 8081B

	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
Check Std	1.92	2.29	9.21	10.66

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT	S2 [a] RT	S2 [b] RT
OP94431-MB1	1G123819.D	06/03/16	10:32	1.92	2.29	9.22	10.66
OP94431-BS1	1G123820.D	06/03/16	10:49	1.93	2.29	9.21	10.66
JC21229-3	1G123821.D	06/03/16	11:07	1.92	2.29	9.21	10.66
JC21347-3	1G123822.D	06/03/16	11:24	1.92	2.29	9.22	10.66
ZZZZZZ	1G123823.D	06/03/16	11:42	1.93	2.29	9.21	10.66
ZZZZZZ	1G123824.D	06/03/16	11:59	1.92	2.29	9.22	10.66
ZZZZZZ	1G123825.D	06/03/16	12:17	1.92	2.29	9.21	10.66
JC21229-4	1G123826.D	06/03/16	12:34	1.93	2.29	9.22	10.66
OP94431-MS	1G123827.D	06/03/16	12:52	1.93	2.29	9.22	10.66
OP94431-MSD	1G123828.D	06/03/16	13:10	1.93	2.29	9.21	10.66
ZZZZZZ	1G123829.D	06/03/16	13:27	1.93	2.30	9.19	10.63
ZZZZZZ	1G123830.D	06/03/16	13:45	1.93	2.30	9.22	10.66
ZZZZZZ	1G123831.D	06/03/16	14:02	1.93	2.30	9.22	10.63
ZZZZZZ	1G123836.D	06/03/16	15:53	1.93	2.30	9.22	10.66
ZZZZZZ	1G123837.D	06/03/16	16:11	1.93	2.30	9.22	10.66

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: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3988-ICC3988
Lab FileID: 1G123065.D

Response Factor Report GC1G

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration

Calibration Files
2 =1G123062.D 5 =1G123063.D 10 =1G123064.D 25 =1G123065.D
50 =1G123066.D 100 =1G123068.D 1 =1G123061.D 75 =1G123067.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.805	0.896	0.893	0.933	0.958	0.974	0.813	0.957	0.904	7.21
3) alpha-BHC	1.137	1.209	1.191	1.290	1.407	1.521	1.131	1.455	1.292	11.66
4) gamma-BHC	1.072	1.155	1.138	1.217	1.308	1.399	1.033	1.340	1.208	10.87
5) Heptachlor	1.163	1.203	1.149	1.202	1.264	1.326	1.246	1.281	1.229	4.94
6) beta-BHC	0.592	0.584	0.560	0.566	0.580	0.587	0.579	0.576	0.578	1.85
7) delta-BHC	1.027	1.091	1.093	1.166	1.279	1.388	1.108	1.321	1.184	10.92
8) Aldrin	1.013	1.087	1.054	1.117	1.186	1.263	1.030	1.213	1.120	8.15
9) Heptachlor E	1.001	1.103	1.065	1.096	1.140	1.182	1.105	1.142	1.104	4.95
10) gamma-Chlord	1.076	1.117	1.045	1.093	1.146	1.204	1.258	1.152	1.137	6.13
11) alpha-Chlord	1.074	1.112	1.057	1.097	1.137	1.184	1.214	1.143	1.127	4.74
12) Endosulfan I	1.026	1.064	1.023	1.061	1.098	1.139	1.162	1.102	1.084	4.62
13) 4,4'-DDE	1.078	1.106	1.059	1.110	1.157	1.211	1.206	1.165	1.136	5.01
14) Dieldrin	1.041	1.085	1.047	1.112	1.172	1.240	1.143	1.193	1.129	6.28
15) Endrin	0.982	0.997	0.952	0.986	1.028	1.069	1.139	1.036	1.024	5.77
16) 4,4'-DDD	0.826	0.859	0.829	0.881	0.931	0.987	0.879	0.948	0.893	6.46
17) Endosulfan I	1.022	1.062	1.012	1.052	1.089	1.120	1.135	1.090	1.073	4.09
18) 4,4'-DDT	0.863	0.927	0.909	0.955	1.010	1.068	1.019	1.027	0.972	7.17
19) Endrin Aldeh	0.821	0.829	0.801	0.816	0.848	0.897	0.880	0.887	0.847	4.29
20) Endosulfan S	0.930	0.984	0.958	0.988	1.008	1.027	1.334	1.010	1.030	12.29
21) Methoxychlor	0.571	0.514	0.563	0.570	0.572	0.571	0.680	0.567	0.576	8.06
22) Mirex	1.007	1.028	0.964	0.959	0.936	0.922	1.099	0.923	0.980	6.28
23) Endrin Keton	1.043	1.134	1.099	1.150	1.182	1.214	1.303	1.197	1.165	6.73
24) Decachlorobi	1.297	1.273	1.230	1.201	1.180	1.152	1.325	1.170	1.229	5.18
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.016				0.016	0.00
27) Toxaphene{B}					0.047				0.047	0.00
28) Toxaphene{C}					0.025				0.025	0.00
29) Toxaphene{D}					0.029				0.029	0.00
30) Toxaphene{E}					0.033				0.033	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.037				0.037	0.00
33) Chlordane {B					0.048				0.048	0.00
34) Chlordane {C					0.162				0.162	0.00
35) Chlordane {D					0.253				0.253	0.00
36) Chlordane {E					0.038				0.038	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.940	0.955	0.933	0.903	0.873	0.825	0.850	0.836	0.889	5.66
3) alpha-BHC	1.408	1.400	1.368	1.329	1.326	1.310	1.204	1.310	1.332	4.85
4) gamma-BHC	1.293	1.307	1.234	1.212	1.195	1.169	1.061	1.172	1.205	6.46

Initial Calibration Summary

Job Number: JC21229 **Sample:** G1G3988-ICC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123065.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.273	1.228	1.160	1.101	1.094	1.061	1.021	1.063	1.125	7.83
6)	beta-BHC	0.621	0.639	0.576	0.556	0.525	0.493	0.508	0.503	0.553	9.98
7)	delta-BHC	1.343	1.290	1.214	1.203	1.200	1.181	1.030	1.179	1.205	7.59
8)	Aldrin	1.082	1.079	1.038	1.041	1.030	1.011	0.948	1.007	1.030	4.16
9)	Heptachlor E	0.966	0.993	0.923	0.918	0.897	0.871	0.930	0.870	0.921	4.67
10)	gamma-Chlord	0.967	0.993	0.929	0.941	0.916	0.898	0.991	0.892	0.941	4.20
11)	alpha-Chlord	0.992	0.981	0.925	0.920	0.893	0.868	1.011	0.864	0.932	6.10
12)	Endosulfan I	0.886	0.911	0.881	0.887	0.854	0.822	0.809	0.823	0.859	4.37
13)	4,4'-DDE	0.951	0.956	0.919	0.925	0.900	0.884	0.983	0.875	0.924	4.05
14)	Dieldrin	0.998	1.007	0.947	0.962	0.940	0.916	1.034	0.913	0.965	4.59
15)	Endrin	0.888	0.924	0.851	0.828	0.810	0.776	0.951	0.765	0.849	7.93
16)	4,4'-DDD	0.776	0.823	0.758	0.771	0.749	0.733	0.755	0.724	0.761	4.03
17)	Endosulfan I	0.923	0.922	0.859	0.853	0.822	0.802	0.978	0.794	0.869	7.57
18)	4,4'-DDT	0.762	0.802	0.738	0.765	0.745	0.731	0.701	0.731	0.747	4.01
19)	Endrin Aldeh	0.681	0.706	0.667	0.661	0.643	0.625	0.718	0.634	0.667	5.00
20)	Endosulfan S	0.805	0.813	0.765	0.762	0.738	0.709	0.775	0.715	0.760	5.03
21)	Methoxychlor	0.410	0.429	0.394	0.383	0.373	0.352	0.502	0.366	0.401	11.88
22)	Mirex	0.674	0.685	0.651	0.611	0.586	0.553	0.759	0.565	0.635	11.00
23)	Endrin Keton	0.896	0.915	0.860	0.846	0.817	0.782	0.912	0.792	0.853	6.18
24)	Decachlorobi	0.665	0.678	0.638	0.607	0.581	0.543	0.726	0.561	0.625	10.09

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.013	0.013	0.00
27)	Toxaphene{B}	0.029	0.029	0.00
28)	Toxaphene{C}	0.051	0.051	0.00
29)	Toxaphene{D}	0.032	0.032	0.00
30)	Toxaphene{E}	0.030	0.030	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.037	0.037	0.00
33)	Chlordane {B	0.037	0.037	0.00
34)	Chlordane {C	0.122	0.122	0.00
35)	Chlordane {D	0.201	0.201	0.00
36)	Chlordane {E	0.036	0.036	0.00

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

1PST3988.M Mon May 16 15:10:27 2016 RPT1

Initial Calibration Verification

Job Number: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123071.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD2B.CH
Acq On    : 5-16-16 01:06:17 PM                      Operator: thomasl
Sample    : icv3988-25                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 17:21:26 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	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.903	0.853	5.5	95	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.118	13.5	90	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.067	11.7	91	0.00	2.68- 2.74
5	MA	Heptachlor	1.229	1.045	15.0	91	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.497	14.0	91	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.097	7.3	98	0.00	2.94- 3.00
8	MB	Aldrin	1.121	0.976	12.9	91	0.00	3.50- 3.56
9	B	Heptachlor Epoxide	1.100	0.968	12.0	92	0.00	4.21- 4.27
10	B	gamma-Chlordane	1.134	0.980	13.6	93	0.00	4.37- 4.43
11	B	alpha-Chlordane	1.127	0.970	13.9	92	0.00	4.53- 4.59
12	A	Endosulfan I	1.085	0.910	16.1	89	0.00	4.72- 4.78
13	B	4,4'-DDE	1.137	0.977	14.1	92	0.00	4.65- 4.71
14	MA	Dieldrin	1.129	0.981	13.1	92	0.00	5.04- 5.10
15	MA	Endrin	1.023	0.875	14.5	92	0.00	5.36- 5.42
16	A	4,4'-DDD	0.892	0.781	12.4	92	0.00	5.47- 5.54
17	B	Endosulfan II	1.073	0.918	14.4	91	0.00	5.68- 5.74
18	MA	4,4'-DDT	0.972	0.806	17.1	88	0.00	5.89- 5.95
19	B	Endrin Aldehyde	0.848	0.757	10.7	97	0.00	6.31- 6.37
20	B	Endosulfan Sulfate	1.030	0.868	15.7	92	0.00	7.00- 7.06
21	A	Methoxychlor	0.586	0.478	18.4	88	0.00	6.67- 6.73
22		Mirex		----------NA----------				
23	B	Endrin Ketone	1.166	1.016	12.9	92	0.00	7.43- 7.49
24	SA	Decachlorobiphenyl	1.229	1.137	7.5	99	0.00	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
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	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.2 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123071.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.853	4.0	98	0.00	2.26- 2.32
3	A	alpha-BHC	1.331	1.193	10.4	93	0.00	2.91- 2.97
4	MA	gamma-BHC	1.205	1.086	9.9	93	0.00	3.32- 3.38
5	MA	Heptachlor	1.125	1.000	11.1	94	0.00	3.87- 3.93
6	B	beta-BHC	0.552	0.492	10.9	92	0.00	3.40- 3.46
7	B	delta-BHC	1.205	1.134	5.9	98	0.00	3.78- 3.84
8	MB	Aldrin	1.031	0.960	6.9	96	0.00	4.31- 4.37
9	B	Heptachlor Epoxide	0.920	0.853	7.3	97	0.00	5.11- 5.17
10	B	gamma-Chlordane	0.939	0.884	5.9	98	0.00	5.39- 5.45
11	B	alpha-Chlordane	0.933	0.845	9.4	95	0.00	5.61- 5.67
12	A	Endosulfan I	0.860	0.796	7.4	93	0.00	5.70- 5.76
13	B	4,4'-DDE	0.925	0.847	8.4	95	0.00	5.87- 5.93
14	MA	Dieldrin	0.963	0.890	7.6	96	0.00	6.12- 6.18
15	MA	Endrin	0.852	0.751	11.9	94	0.00	6.62- 6.68
16	A	4,4'-DDD	0.763	0.706	7.5	95	0.00	6.80- 6.86
17	B	Endosulfan II	0.868	0.780	10.1	95	0.00	6.96- 7.02
18	MA	4,4'-DDT	0.744	0.671	9.8	91	0.00	7.33- 7.39
19	B	Endrin Aldehyde	0.666	0.637	4.4	100	0.00	7.53- 7.59
20	B	Endosulfan Sulfate	0.760	0.703	7.5	96	0.00	7.99- 8.05
21	A	Methoxychlor	0.398	0.343	13.8	93	0.00	8.57- 8.63
22		Mirex		----------NA----------				
23	B	Endrin Ketone	0.851	0.786	7.6	97	0.00	8.94- 9.00
24	SA	Decachlorobiphenyl	0.624	0.586	6.1	100	0.00	10.65-10.71
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
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
1G123065.D 1PST3988.M Mon May 16 17:24:55 2016 RPT1

10.10.2 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123072.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD1A.CH Vial: 17
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD2B.CH
Acq On    : 5-16-16 01:23:45 PM                      Operator: thomasl
Sample    : icv3988-25                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 17:21:26 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	1.30- 1.36
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	0.980	0.896	8.6	97	0.00	6.80- 6.86
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
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	1.23- 1.43
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: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123072.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.47- 1.53
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	0.635	0.598	5.8	102	0.00	8.87- 8.93
23	B	Endrin Ketone		----------NA----------				
24	SA	Decachlorobiphenyl		----------NA----------				
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.40- 1.60
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.40- 1.60
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
1G123065.D 1PST3988.M Mon May 16 17:24:56 2016 RPT1

10.10.3 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123073.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On    : 5-16-16 01:41:21 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 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	102	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.857	5.2	91	0.00	1.89- 1.95
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	1.229	1.129	8.1	98	0.00	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.23- 1.43
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	106	0.00	1.23- 1.43
32		Chlordane {A}	0.037	0.039	-5.4	112	0.00	3.01- 3.21
33		Chlordane {B}	0.048	0.044	8.3	97	0.00	3.57- 3.77
34		Chlordane {C}	0.162	0.142	12.3	92	0.00	4.30- 4.50
35		Chlordane {D}	0.253	0.226	10.7	94	0.00	4.45- 4.65
36		Chlordane {E}	0.038	0.035	7.9	98	0.00	5.50- 5.70

***** Signal #2 *****

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G1G3988-ICV3988
Lab FileID: 1G123073.D

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.816	8.2	94	0.00	2.26- 2.32
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	0.625	0.584	6.6	101	0.00	10.65-10.71
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.39- 1.59
26	L8	Toxaphene{A}	----------NA----------					
27	L8	Toxaphene{B}	----------NA----------					
28	L8	Toxaphene{C}	----------NA----------					
29	L8	Toxaphene{D}	----------NA----------					
30	L8	Toxaphene{E}	----------NA----------					
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.39- 1.59
32		Chlordane {A}	0.037	0.040	-8.1	113	0.00	3.61- 3.81
33		Chlordane {B}	0.037	0.036	2.7	101	0.00	4.43- 4.63
34		Chlordane {C}	0.122	0.111	9.0	94	0.00	5.32- 5.52
35		Chlordane {D}	0.201	0.185	8.0	95	0.00	5.54- 5.74
36		Chlordane {E}	0.036	0.033	8.3	94	0.00	6.97- 7.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1G123066.D 1PST3988.M Mon May 16 15:08:04 2016 RPT1

10.10.4 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123074.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 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	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.843	6.7	91	0.00	1.89- 1.95
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	1.229	1.090	11.3	95	0.00	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.23- 1.43
26	L8	Toxaphene{A}	0.016	0.018	-12.5	114	0.00	4.97- 5.17
27	L8	Toxaphene{B}	0.047	0.047	0.0	102	0.00	5.60- 5.80
28	L8	Toxaphene{C}	0.025	0.026	-4.0	105	0.00	5.77- 5.97
29	L8	Toxaphene{D}	0.029	0.030	-3.4	105	0.00	6.10- 6.30
30	L8	Toxaphene{E}	0.033	0.032	3.0	99	0.00	6.75- 6.95
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	107	0.00	1.23- 1.43
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: JC21229 **Sample:** G1G3988-ICV3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123074.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.812	8.7	93	0.00	2.27- 2.33
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	0.625	0.575	8.0	99	0.00	10.65-10.71
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.39- 1.59
26	L8	Toxaphene{A}	0.013	0.014	-7.7	102	0.00	6.02- 6.22
27	L8	Toxaphene{B}	0.029	0.031	-6.9	107	0.00	6.86- 7.06
28	L8	Toxaphene{C}	0.051	0.052	-2.0	103	0.00	7.02- 7.22
29	L8	Toxaphene{D}	0.032	0.033	-3.1	103	0.00	7.46- 7.66
30	L8	Toxaphene{E}	0.030	0.031	-3.3	102	0.00	8.34- 8.54
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	104	0.00	1.39- 1.59
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
1G123066.D 1PST3988.M Mon May 16 15:08:05 2016 RPT1

10.10.5 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4000-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123682.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD2B.CH
Acq On    : 31 May 2016  10:35 am                    Operator: dharas
Sample    : cc3988-50                                Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 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	155	-0.01	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.898	0.7	146	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.296	-0.3	143	0.00	2.37- 2.43
4	MA	gamma-BHC	1.208	1.209	-0.1	144	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.171	4.7	144	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.518	10.4	139	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.118	5.6	136	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.140	-1.8	149	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.036	6.2	141	0.01	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.062	6.6	144	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.056	6.3	144	0.01	4.53- 4.59
12	A	Endosulfan I	1.084	1.033	4.7	146	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.089	4.1	146	0.01	4.64- 4.70
14	MA	Dieldrin	1.129	1.120	0.8	148	0.01	5.03- 5.09
15	MA	Endrin	1.024	1.052	-2.7	159	0.01	5.35- 5.41
16	A	4,4'-DDD	0.893	0.888	0.6	148	0.01	5.46- 5.53
17	B	Endosulfan II	1.073	0.999	6.9	142	0.01	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.863	11.2	133	0.01	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.767	9.4	141	0.01	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.813	21.1#	125	0.01	6.99- 7.05
21	A	Methoxychlor	0.576	0.491	14.8	133	0.01	6.66- 6.72
22		Mirex	0.980	0.818	16.5	136	0.01	6.78- 6.84
23	B	Endrin Ketone	1.165	0.818	29.8#	108	0.01	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.092	11.1	144	0.01	9.19- 9.25
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	152	-0.01	1.23- 1.43
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	161	-0.01	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.6 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4000-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123682.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	134	-0.01	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.800	10.0	123	0.00	2.25- 2.31
3	A	alpha-BHC	1.332	1.224	8.1	123	0.00	2.89- 2.95
4	MA	gamma-BHC	1.205	1.085	10.0	121	0.00	3.30- 3.36
5	MA	Heptachlor	1.125	0.991	11.9	121	0.00	3.85- 3.91
6	B	beta-BHC	0.553	0.455	17.7	116	0.00	3.38- 3.44
7	B	delta-BHC	1.205	1.004	16.7	112	0.00	3.76- 3.82
8	MB	Aldrin	1.030	0.954	7.4	124	0.00	4.28- 4.34
9	B	Heptachlor Epoxide	0.921	0.882	4.2	131	0.00	5.08- 5.14
10	B	gamma-Chlordane	0.941	0.896	4.8	131	0.00	5.36- 5.42
11	B	alpha-Chlordane	0.932	0.861	7.6	129	0.00	5.58- 5.64
12	A	Endosulfan I	0.859	0.829	3.5	130	0.00	5.67- 5.73
13	B	4,4'-DDE	0.924	0.892	3.5	133	-0.01	5.84- 5.90
14	MA	Dieldrin	0.965	0.928	3.8	132	-0.01	6.09- 6.15
15	MA	Endrin	0.849	0.843	0.7	139	-0.01	6.58- 6.64
16	A	4,4'-DDD	0.761	0.753	1.1	134	-0.01	6.77- 6.83
17	B	Endosulfan II	0.869	0.797	8.3	130	-0.01	6.92- 6.98
18	MA	4,4'-DDT	0.747	0.669	10.4	120	-0.01	7.29- 7.35
19	B	Endrin Aldehyde	0.667	0.616	7.6	128	-0.01	7.49- 7.55
20	B	Endosulfan Sulfate	0.760	0.628	17.4	114	-0.02	7.95- 8.01
21	A	Methoxychlor	0.401	0.362	9.7	130	-0.02	8.53- 8.59
22		Mirex	0.635	0.559	12.0	128	-0.02	8.82- 8.88
23	B	Endrin Ketone	0.853	0.624	26.8#	102	-0.02	8.89- 8.95
24	SA	Decachlorobiphenyl	0.625	0.622	0.5	143	-0.03	10.60-10.66
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	133	-0.01	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	138	-0.01	1.39- 1.59
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
1G123066.D 1PST3988.M Tue May 31 12:43:05 2016 RPT1

10.10.6 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4000-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123703.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123703.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123703.D\ECD2B.CH
Acq On    : 5-31-16 06:48:03 PM                      Operator: dharas
Sample    : cc3988-25                                Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	117	0.00	1.29- 1.35
2	SAB	Tetrachloro-m-xylene	0.904	0.850	6.0	106	0.00	1.88- 1.94
3	A	alpha-BHC	1.292	1.183	8.4	107	0.00	2.37- 2.43
4	MA	gamma-BHC	1.208	1.107	8.4	106	0.00	2.66- 2.72
5	MA	Heptachlor	1.229	1.143	7.0	111	0.00	3.15- 3.21
6	B	beta-BHC	0.578	0.515	10.9	106	0.00	2.74- 2.80
7	B	delta-BHC	1.184	1.083	8.5	108	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.061	5.3	111	0.00	3.48- 3.54
9	B	Heptachlor Epoxide	1.104	1.040	5.8	111	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.024	9.9	109	0.00	4.35- 4.41
11	B	alpha-Chlordane	1.127	1.026	9.0	109	0.00	4.52- 4.58
12	A	Endosulfan I	1.084	0.995	8.2	109	0.00	4.70- 4.76
13	B	4,4'-DDE	1.136	1.026	9.7	108	0.00	4.63- 4.69
14	MA	Dieldrin	1.129	1.045	7.4	110	0.00	5.02- 5.08
15	MA	Endrin	1.024	0.999	2.4	118	0.00	5.34- 5.40
16	A	4,4'-DDD	0.893	0.820	8.2	109	0.00	5.46- 5.53
17	B	Endosulfan II	1.073	0.977	8.9	108	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.819	15.7	100	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.773	8.7	111	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.880	14.6	104	0.00	6.98- 7.04
21	A	Methoxychlor	0.576	0.501	13.0	103	0.00	6.66- 6.72
22		Mirex	0.980	0.848	13.5	103	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	1.044	10.4	106	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.122	8.7	109	0.00	9.18- 9.25
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.22- 1.42
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	1.22- 1.42
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.7 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4000-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123703.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.45- 1.51
2	SAB	Tetrachloro-m-xylene	0.889	0.820	7.8	96	0.00	2.25- 2.31
3	A	alpha-BHC	1.332	1.223	8.2	97	0.00	2.88- 2.94
4	MA	gamma-BHC	1.205	1.109	8.0	97	0.00	3.30- 3.36
5	MA	Heptachlor	1.125	1.051	6.6	101	0.00	3.85- 3.91
6	B	beta-BHC	0.553	0.498	9.9	95	0.00	3.38- 3.44
7	B	delta-BHC	1.205	1.105	8.3	97	0.00	3.76- 3.82
8	MB	Aldrin	1.030	1.019	1.1	103	0.00	4.28- 4.34
9	B	Heptachlor Epoxide	0.921	0.926	-0.5	107	0.00	5.08- 5.14
10	B	gamma-Chlordane	0.941	0.938	0.3	105	0.00	5.35- 5.41
11	B	alpha-Chlordane	0.932	0.912	2.1	105	0.00	5.57- 5.63
12	A	Endosulfan I	0.859	0.879	-2.3	105	0.00	5.66- 5.72
13	B	4,4'-DDE	0.924	0.910	1.5	104	0.00	5.84- 5.90
14	MA	Dieldrin	0.965	0.959	0.6	105	0.00	6.09- 6.15
15	MA	Endrin	0.849	0.892	-5.1	114	0.00	6.58- 6.64
16	A	4,4'-DDD	0.761	0.771	-1.3	106	0.00	6.77- 6.83
17	B	Endosulfan II	0.869	0.845	2.8	105	0.00	6.92- 6.98
18	MA	4,4'-DDT	0.747	0.696	6.8	96	0.00	7.29- 7.35
19	B	Endrin Aldehyde	0.667	0.677	-1.5	108	0.00	7.49- 7.55
20	B	Endosulfan Sulfate	0.760	0.729	4.1	101	0.00	7.95- 8.01
21	A	Methoxychlor	0.401	0.380	5.2	105	0.00	8.53- 8.59
22		Mirex	0.635	0.614	3.3	106	0.00	8.82- 8.88
23	B	Endrin Ketone	0.853	0.838	1.8	105	0.00	8.89- 8.95
24	SA	Decachlorobiphenyl	0.625	0.636	-1.8	111	0.00	10.60-10.66
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.38- 1.58
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	1.38- 1.58
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
1G123065.D 1PST3988.M Wed Jun 01 16:03:01 2016 RPT1

10.10.7 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4001-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123723.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123723.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123723.D\ECD2B.CH
Acq On    : 01 Jun 2016  10:00 am                    Operator: kristend
Sample    : cc3988-50                                Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 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	135	0.00	1.29- 1.35
2	SAB	Tetrachloro-m-xylene	0.904	0.897	0.8	127	-0.01	1.88- 1.94
3	A	alpha-BHC	1.292	1.341	-3.8	129	-0.02	2.37- 2.43
4	MA	gamma-BHC	1.208	1.210	-0.2	125	-0.02	2.66- 2.72
5	MA	Heptachlor	1.229	1.226	0.2	131	-0.01	3.15- 3.21
6	B	beta-BHC	0.578	0.525	9.2	123	-0.01	2.74- 2.80
7	B	delta-BHC	1.184	1.209	-2.1	128	-0.01	2.93- 2.99
8	MB	Aldrin	1.120	1.156	-3.2	132	-0.01	3.48- 3.54
9	B	Heptachlor Epoxide	1.104	1.068	3.3	127	-0.02	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.067	6.2	126	-0.01	4.35- 4.41
11	B	alpha-Chlordane	1.127	1.082	4.0	129	-0.01	4.52- 4.58
12	A	Endosulfan I	1.084	1.073	1.0	132	-0.02	4.70- 4.76
13	B	4,4'-DDE	1.136	1.097	3.4	128	-0.01	4.63- 4.69
14	MA	Dieldrin	1.129	1.157	-2.5	134	-0.02	5.02- 5.08
15	MA	Endrin	1.024	1.102	-7.6	145	-0.01	5.34- 5.40
16	A	4,4'-DDD	0.893	0.896	-0.3	130	-0.01	5.46- 5.53
17	B	Endosulfan II	1.073	1.076	-0.3	134	-0.01	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.944	2.9	127	-0.01	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.837	1.2	134	-0.02	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.992	3.7	133	-0.02	6.98- 7.04
21	A	Methoxychlor	0.576	0.544	5.6	129	0.00	6.66- 6.72
22		Mirex	0.980	0.902	8.0	131	-0.01	6.78- 6.84
23	B	Endrin Ketone	1.165	1.155	0.9	132	-0.01	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.203	2.1	138	-0.02	9.19- 9.25
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	133	0.00	1.22- 1.42
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	140	0.00	1.22- 1.42
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.8 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4001-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123723.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	118	-0.01	1.45- 1.51
2	SAB	Tetrachloro-m-xylene	0.889	0.834	6.2	113	-0.02	2.25- 2.31
3	A	alpha-BHC	1.332	1.287	3.4	115	-0.02	2.89- 2.95
4	MA	gamma-BHC	1.205	1.137	5.6	112	-0.02	3.30- 3.36
5	MA	Heptachlor	1.125	1.063	5.5	115	-0.03	3.85- 3.91
6	B	beta-BHC	0.553	0.483	12.7	109	-0.02	3.38- 3.44
7	B	delta-BHC	1.205	1.146	4.9	113	-0.02	3.76- 3.82
8	MB	Aldrin	1.030	1.009	2.0	116	-0.03	4.28- 4.34
9	B	Heptachlor Epoxide	0.921	0.921	0.0	121	-0.03	5.08- 5.14
10	B	gamma-Chlordane	0.941	0.941	0.0	121	-0.03	5.36- 5.42
11	B	alpha-Chlordane	0.932	0.916	1.7	121	-0.03	5.58- 5.64
12	A	Endosulfan I	0.859	0.882	-2.7	122	-0.03	5.67- 5.73
13	B	4,4'-DDE	0.924	0.929	-0.5	122	-0.03	5.84- 5.90
14	MA	Dieldrin	0.965	0.987	-2.3	124	-0.04	6.09- 6.15
15	MA	Endrin	0.849	0.917	-8.0	134	-0.04	6.58- 6.64
16	A	4,4'-DDD	0.761	0.796	-4.6	126	-0.04	6.77- 6.83
17	B	Endosulfan II	0.869	0.874	-0.6	126	-0.04	6.92- 6.98
18	MA	4,4'-DDT	0.747	0.764	-2.3	121	-0.04	7.29- 7.35
19	B	Endrin Aldehyde	0.667	0.691	-3.6	127	-0.04	7.49- 7.55
20	B	Endosulfan Sulfate	0.760	0.785	-3.3	126	-0.04	7.95- 8.01
21	A	Methoxychlor	0.401	0.411	-2.5	130	-0.04	8.53- 8.59
22		Mirex	0.635	0.640	-0.8	129	-0.04	8.82- 8.88
23	B	Endrin Ketone	0.853	0.875	-2.6	127	-0.04	8.89- 8.95
24	SA	Decachlorobiphenyl	0.625	0.653	-4.5	133	-0.04	10.60-10.66
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	117	-0.01	1.38- 1.58
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	122	-0.01	1.38- 1.58
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
1G123066.D 1PST3988.M Wed Jun 01 13:07:37 2016 RPT1

10.10.8 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4001-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123744.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123744.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123744.D\ECD2B.CH
Acq On    : 6-1-16 06:23:32 PM                        Operator: dharas
Sample    : cc3988-25                                 Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	138	0.00	1.29- 1.35
2	SAB	Tetrachloro-m-xylene	0.904	0.870	3.8	129	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.238	4.2	132	0.00	2.37- 2.43
4	MA	gamma-BHC	1.208	1.162	3.8	132	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.191	3.1	137	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.536	7.3	130	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.121	5.3	133	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.096	2.1	135	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.055	4.4	133	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.038	8.7	131	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.041	7.6	131	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	1.023	5.6	133	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.039	8.5	129	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.076	4.7	133	0.00	5.03- 5.09
15	MA	Endrin	1.024	1.032	-0.8	144	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.825	7.6	129	0.00	5.47- 5.54
17	B	Endosulfan II	1.073	1.016	5.3	133	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.875	10.0	126	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.802	5.3	136	0.00	6.31- 6.37
20	B	Endosulfan Sulfate	1.030	0.949	7.9	132	0.00	6.99- 7.05
21	A	Methoxychlor	0.576	0.535	7.1	129	0.01	6.67- 6.73
22		Mirex	0.980	0.906	7.6	130	0.00	6.79- 6.85
23	B	Endrin Ketone	1.165	1.101	5.5	132	0.00	7.42- 7.48
24	SA	Decachlorobiphenyl	1.229	1.193	2.9	137	0.01	9.20- 9.26
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.22- 1.42
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	1.22- 1.42
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.9 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4001-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123744.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	122	0.00	1.45- 1.51
2	SAB	Tetrachloro-m-xylene	0.889	0.878	1.2	119	0.00	2.25- 2.31
3	A	alpha-BHC	1.332	1.302	2.3	120	0.00	2.89- 2.95
4	MA	gamma-BHC	1.205	1.173	2.7	118	0.00	3.30- 3.36
5	MA	Heptachlor	1.125	1.132	-0.6	126	0.00	3.85- 3.91
6	B	beta-BHC	0.553	0.528	4.5	116	0.00	3.38- 3.44
7	B	delta-BHC	1.205	1.173	2.7	119	0.00	3.76- 3.82
8	MB	Aldrin	1.030	1.058	-2.7	124	0.00	4.28- 4.34
9	B	Heptachlor Epoxide	0.921	0.960	-4.2	128	0.00	5.08- 5.14
10	B	gamma-Chlordane	0.941	0.965	-2.6	125	0.00	5.36- 5.42
11	B	alpha-Chlordane	0.932	0.936	-0.4	124	0.00	5.58- 5.64
12	A	Endosulfan I	0.859	0.900	-4.8	124	0.00	5.67- 5.73
13	B	4,4'-DDE	0.924	0.932	-0.9	123	0.00	5.84- 5.90
14	MA	Dieldrin	0.965	0.986	-2.2	125	0.00	6.09- 6.15
15	MA	Endrin	0.849	0.918	-8.1	135	0.00	6.58- 6.64
16	A	4,4'-DDD	0.761	0.798	-4.9	126	0.00	6.77- 6.83
17	B	Endosulfan II	0.869	0.873	-0.5	125	0.00	6.93- 6.99
18	MA	4,4'-DDT	0.747	0.753	-0.8	120	0.00	7.30- 7.36
19	B	Endrin Aldehyde	0.667	0.696	-4.3	129	0.00	7.49- 7.55
20	B	Endosulfan Sulfate	0.760	0.793	-4.3	127	0.00	7.95- 8.01
21	A	Methoxychlor	0.401	0.411	-2.5	131	0.00	8.53- 8.59
22		Mirex	0.635	0.654	-3.0	131	0.00	8.83- 8.89
23	B	Endrin Ketone	0.853	0.887	-4.0	128	0.00	8.90- 8.96
24	SA	Decachlorobiphenyl	0.625	0.665	-6.4	134	0.00	10.61-10.67
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.38- 1.58
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	1.38- 1.58
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
1G123065.D 1PST3988.M Thu Jun 02 10:35:00 2016 RPT1

10.10.9 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4002-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123784.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4002\1G123784.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4002\1G123784.D\ECD2B.CH
Acq On    : 6-2-16 01:18:28 PM                        Operator: dharas
Sample    : cc3988-50                                 Inst    : GC1G
Misc      : op94273,g1g4002,15.3,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 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	117	0.01	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.826	8.6	101	0.01	1.90- 1.96
3	A	alpha-BHC	1.292	1.258	2.6	104	0.01	2.38- 2.44
4	MA	gamma-BHC	1.208	1.160	4.0	103	0.01	2.68- 2.74
5	MA	Heptachlor	1.229	1.179	4.1	109	0.01	3.17- 3.23
6	B	beta-BHC	0.578	0.508	12.1	102	0.01	2.75- 2.81
7	B	delta-BHC	1.184	1.128	4.7	103	0.01	2.94- 3.00
8	MB	Aldrin	1.120	1.104	1.4	109	0.01	3.50- 3.56
9	B	Heptachlor Epoxide	1.104	1.059	4.1	108	0.01	4.21- 4.27
10	B	gamma-Chlordane	1.137	1.075	5.5	109	0.01	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.077	4.4	110	0.01	4.53- 4.59
12	A	Endosulfan I	1.084	1.055	2.7	112	0.01	4.71- 4.77
13	B	4,4'-DDE	1.136	1.108	2.5	112	0.01	4.65- 4.71
14	MA	Dieldrin	1.129	1.139	-0.9	113	0.01	5.03- 5.09
15	MA	Endrin	1.024	1.090	-6.4	124	0.01	5.35- 5.41
16	A	4,4'-DDD	0.893	0.904	-1.2	113	0.01	5.47- 5.54
17	B	Endosulfan II	1.073	1.063	0.9	114	0.01	5.68- 5.74
18	MA	4,4'-DDT	0.972	0.922	5.1	106	0.01	5.89- 5.95
19	B	Endrin Aldehyde	0.847	0.815	3.8	112	0.01	6.31- 6.37
20	B	Endosulfan Sulfate	1.030	0.948	8.0	110	0.00	6.99- 7.05
21	A	Methoxychlor	0.576	0.548	4.9	112	0.00	6.66- 6.72
22		Mirex	0.980	0.901	8.1	112	0.00	6.79- 6.85
23	B	Endrin Ketone	1.165	1.052	9.7	104	0.00	7.42- 7.48
24	SA	Decachlorobiphenyl	1.229	1.213	1.3	120	0.00	9.19- 9.25
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	114	0.01	1.23- 1.43
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	121	0.01	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.10 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4002-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123784.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.757	14.8	92	0.01	2.26- 2.32
3	A	alpha-BHC	1.332	1.164	12.6	93	0.00	2.90- 2.96
4	MA	gamma-BHC	1.205	1.020	15.4	91	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	0.954	15.2	93	0.00	3.86- 3.92
6	B	beta-BHC	0.553	0.436	21.2#	88	0.01	3.39- 3.45
7	B	delta-BHC	1.205	0.979	18.8	87	0.00	3.77- 3.83
8	MB	Aldrin	1.030	0.905	12.1	93	0.01	4.29- 4.35
9	B	Heptachlor Epoxide	0.921	0.847	8.0	100	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.868	7.8	101	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.848	9.0	101	0.01	5.59- 5.65
12	A	Endosulfan I	0.859	0.814	5.2	101	0.01	5.68- 5.74
13	B	4,4'-DDE	0.924	0.874	5.4	103	0.01	5.85- 5.91
14	MA	Dieldrin	0.965	0.918	4.9	104	0.01	6.10- 6.16
15	MA	Endrin	0.849	0.860	-1.3	113	0.01	6.59- 6.65
16	A	4,4'-DDD	0.761	0.740	2.8	105	0.01	6.78- 6.84
17	B	Endosulfan II	0.869	0.812	6.6	105	0.01	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.707	5.4	101	0.01	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.631	5.4	104	0.01	7.50- 7.56
20	B	Endosulfan Sulfate	0.760	0.718	5.5	103	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.396	1.2	113	0.02	8.55- 8.61
22		Mirex	0.635	0.594	6.5	108	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.770	9.7	100	0.02	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.613	1.9	112	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	110	0.00	1.39- 1.59
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
1G123066.D 1PST3988.M Fri Jun 03 09:50:16 2016 RPT1

10.10.10 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123817.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD2B.CH
Acq On    : 6-3-16 09:57:04 AM                      Operator: kristend
Sample    : cc3988-50                               Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 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	138	0.01	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.880	2.7	126	0.01	1.89- 1.95
3	A	alpha-BHC	1.292	1.304	-0.9	128	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.180	2.3	124	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.208	1.7	132	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.508	12.1	121	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.109	6.3	119	0.00	2.94- 3.00
8	MB	Aldrin	1.120	1.144	-2.1	133	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.047	5.2	126	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.050	7.7	126	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.059	6.0	128	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	1.046	3.5	131	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.072	5.6	128	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.120	0.8	132	0.00	5.03- 5.09
15	MA	Endrin	1.024	1.072	-4.7	144	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.858	3.9	127	0.00	5.46- 5.53
17	B	Endosulfan II	1.073	1.025	4.5	130	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.899	7.5	123	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.792	6.5	129	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.919	10.8	126	0.00	6.99- 7.05
21	A	Methoxychlor	0.576	0.517	10.2	125	0.00	6.66- 6.72
22		Mirex	0.980	0.859	12.3	126	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	0.998	14.3	116	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.151	6.3	134	0.00	9.18- 9.24
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	135	0.01	1.23- 1.43
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	142	0.01	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.11 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123817.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	124	0.01	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.779	12.4	110	0.01	2.26- 2.32
3	A	alpha-BHC	1.332	1.221	8.3	114	0.01	2.90- 2.96
4	MA	gamma-BHC	1.205	1.086	9.9	112	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	1.023	9.1	116	0.01	3.86- 3.92
6	B	beta-BHC	0.553	0.461	16.6	109	0.01	3.39- 3.45
7	B	delta-BHC	1.205	1.028	14.7	106	0.01	3.77- 3.83
8	MB	Aldrin	1.030	0.971	5.7	117	0.01	4.30- 4.36
9	B	Heptachlor Epoxide	0.921	0.876	4.9	121	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.892	5.2	121	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.859	7.8	119	0.02	5.59- 5.65
12	A	Endosulfan I	0.859	0.825	4.0	120	0.01	5.68- 5.74
13	B	4,4'-DDE	0.924	0.876	5.2	121	0.02	5.86- 5.92
14	MA	Dieldrin	0.965	0.928	3.8	122	0.02	6.11- 6.17
15	MA	Endrin	0.849	0.865	-1.9	132	0.02	6.60- 6.66
16	A	4,4'-DDD	0.761	0.740	2.8	122	0.02	6.79- 6.85
17	B	Endosulfan II	0.869	0.807	7.1	122	0.02	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.701	6.2	116	0.02	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.630	5.5	121	0.02	7.51- 7.57
20	B	Endosulfan Sulfate	0.760	0.694	8.7	116	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.373	7.0	124	0.02	8.55- 8.61
22		Mirex	0.635	0.580	8.7	123	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.738	13.5	112	0.02	8.91- 8.97
24	SA	Decachlorobiphenyl	0.625	0.604	3.4	129	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	123	0.01	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	128	0.01	1.39- 1.59
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
1G123066.D 1PST3988.M Fri Jun 03 10:39:16 2016 RPT1

10.10.11 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123839.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD2B.CH
Acq On    : 6-3-16 05:45:48 PM                      Operator: dharas
Sample    : cc3988-25                               Inst    : GC1G
Misc      : op94273,g1g4003,16.4,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 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	135	0.00	1.30- 1.36
2	SAB	Tetrachloro-m-xylene	0.904	0.910	-0.7	132	0.00	1.89- 1.95
3	A	alpha-BHC	1.292	1.328	-2.8	139	0.00	2.38- 2.44
4	MA	gamma-BHC	1.208	1.222	-1.2	136	0.00	2.67- 2.73
5	MA	Heptachlor	1.229	1.267	-3.1	142	0.00	3.16- 3.22
6	B	beta-BHC	0.578	0.557	3.6	133	0.00	2.75- 2.81
7	B	delta-BHC	1.184	1.190	-0.5	138	0.00	2.93- 2.99
8	MB	Aldrin	1.120	1.177	-5.1	142	0.00	3.49- 3.55
9	B	Heptachlor Epoxide	1.104	1.088	1.4	134	0.00	4.20- 4.26
10	B	gamma-Chlordane	1.137	1.092	4.0	135	0.00	4.36- 4.42
11	B	alpha-Chlordane	1.127	1.108	1.7	136	0.00	4.53- 4.59
12	A	Endosulfan I	1.084	1.083	0.1	138	0.00	4.71- 4.77
13	B	4,4'-DDE	1.136	1.124	1.1	137	0.00	4.64- 4.70
14	MA	Dieldrin	1.129	1.146	-1.5	139	0.00	5.02- 5.08
15	MA	Endrin	1.024	1.098	-7.2	151	0.00	5.35- 5.41
16	A	4,4'-DDD	0.893	0.920	-3.0	141	0.00	5.46- 5.53
17	B	Endosulfan II	1.073	1.075	-0.2	138	0.00	5.67- 5.73
18	MA	4,4'-DDT	0.972	0.892	8.2	126	0.00	5.88- 5.94
19	B	Endrin Aldehyde	0.847	0.852	-0.6	141	0.00	6.30- 6.36
20	B	Endosulfan Sulfate	1.030	0.984	4.5	135	0.00	6.98- 7.04
21	A	Methoxychlor	0.576	0.545	5.4	129	0.00	6.66- 6.72
22		Mirex	0.980	0.928	5.3	131	0.00	6.78- 6.84
23	B	Endrin Ketone	1.165	1.108	4.9	130	0.00	7.41- 7.47
24	SA	Decachlorobiphenyl	1.229	1.144	6.9	129	0.00	9.18- 9.24
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.23- 1.43
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	1.23- 1.43
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.12 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G1G4003-CC3988
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 1G123839.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	122	0.00	1.46- 1.52
2	SAB	Tetrachloro-m-xylene	0.889	0.827	7.0	112	0.01	2.26- 2.32
3	A	alpha-BHC	1.332	1.299	2.5	119	0.01	2.90- 2.96
4	MA	gamma-BHC	1.205	1.167	3.2	118	0.01	3.31- 3.37
5	MA	Heptachlor	1.125	1.112	1.2	123	0.01	3.86- 3.92
6	B	beta-BHC	0.553	0.518	6.3	114	0.01	3.39- 3.45
7	B	delta-BHC	1.205	1.141	5.3	116	0.01	3.77- 3.83
8	MB	Aldrin	1.030	1.044	-1.4	123	0.01	4.30- 4.36
9	B	Heptachlor Epoxide	0.921	0.925	-0.4	123	0.01	5.09- 5.15
10	B	gamma-Chlordane	0.941	0.946	-0.5	123	0.01	5.37- 5.43
11	B	alpha-Chlordane	0.932	0.917	1.6	122	0.02	5.59- 5.65
12	A	Endosulfan I	0.859	0.873	-1.6	120	0.02	5.68- 5.74
13	B	4,4'-DDE	0.924	0.923	0.1	122	0.02	5.86- 5.92
14	MA	Dieldrin	0.965	0.963	0.2	122	0.01	6.11- 6.17
15	MA	Endrin	0.849	0.911	-7.3	134	0.02	6.60- 6.66
16	A	4,4'-DDD	0.761	0.808	-6.2	128	0.02	6.79- 6.85
17	B	Endosulfan II	0.869	0.850	2.2	122	0.02	6.94- 7.00
18	MA	4,4'-DDT	0.747	0.690	7.6	110	0.02	7.31- 7.37
19	B	Endrin Aldehyde	0.667	0.663	0.6	123	0.02	7.51- 7.57
20	B	Endosulfan Sulfate	0.760	0.731	3.8	117	0.02	7.97- 8.03
21	A	Methoxychlor	0.401	0.369	8.0	118	0.02	8.55- 8.61
22		Mirex	0.635	0.589	7.2	118	0.02	8.84- 8.90
23	B	Endrin Ketone	0.853	0.787	7.7	114	0.02	8.92- 8.98
24	SA	Decachlorobiphenyl	0.625	0.518	17.1	104	0.03	10.63-10.69
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	0.00	1.39- 1.59
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
1G123065.D 1PST3988.M Mon Jun 06 12:06:42 2016 RPT1

10.10.12 10

Initial Calibration Summary

Job Number: JC21229 **Sample:** G4G1799-ICC1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68553A.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST1799.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Wed May 25 09:54:43 2016
Response via : Initial Calibration

Calibration Files
2 =4g68550a.D 5 =4g68551a.D 10 =4g68552a.D 25 =4g68553a.D
50 =4g68554a.D 100 =4g68556a.D 1 =4g68549a.D 75 =4g68555a.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.852	0.877	0.849	0.845	0.881	0.875		0.879	0.865	1.82
3) alpha-BHC	1.114	1.129	1.108	1.153	1.239	1.281	1.159	1.265	1.181	5.92
4) gamma-BHC	1.017	1.036	1.018	1.050	1.117	1.150	1.088	1.141	1.077	5.03
5) Heptachlor	1.034	1.027	0.987	0.994	1.047	1.060	1.131	1.063	1.043	4.36
6) beta-BHC	0.513	0.501	0.491	0.486	0.498	0.492	0.553	0.494	0.504	4.26
7) delta-BHC	0.919	0.908	0.894	0.937	1.020	1.071	0.977	1.050	0.972	6.99
8) Aldrin	0.938	0.938	0.916	0.927	0.985	1.003	1.120	1.000	0.978	6.79
9) Heptachlor E	0.879	0.889	0.868	0.870	0.908	0.906	1.018	0.912	0.906	5.32
10) gamma-Chlord	0.890	0.886	0.858	0.861	0.901	0.911	1.052	0.910	0.909	6.77
11) alpha-Chlord	0.861	0.878	0.847	0.844	0.880	0.885	0.806	0.887	0.861	3.23
12) Endosulfan I	0.872	0.858	0.831	0.829	0.869	0.867	0.913	0.871	0.864	3.04
13) 4,4'-DDE	0.891	0.868	0.846	0.853	0.900	0.912	0.939	0.912	0.890	3.61
14) Dieldrin	0.845	0.861	0.855	0.864	0.918	0.933	0.870	0.932	0.885	4.12
15) Endrin	0.814	0.770	0.757	0.750	0.788	0.794	0.821	0.786	0.785	3.21
16) 4,4'-DDD	0.685	0.662	0.688	0.682	0.721	0.741	0.755	0.727	0.708	4.64
17) Endosulfan I	0.824	0.796	0.780	0.770	0.803	0.806	0.821	0.802	0.800	2.30
18) 4,4'-DDT	0.748	0.701	0.698	0.684	0.732	0.759	0.774	0.747	0.730	4.46
19) Endrin Aldeh	0.634	0.638	0.625	0.635	0.645	0.648	0.653	0.653	0.641	1.55
20) Endosulfan S	0.740	0.718	0.698	0.684	0.700	0.688	0.775	0.694	0.712	4.39
21) Methoxychlor	0.431	0.423	0.403	0.396	0.400	0.386	0.481	0.393	0.414	7.46
22) Mirex	0.696	0.687	0.659	0.632	0.626	0.600	0.715	0.613	0.653	6.46
23) Endrin Keton	0.863	0.843	0.826	0.821	0.850	0.840	0.896	0.847	0.848	2.78
24) Decachlorobi	0.789	0.788	0.758	0.722	0.718	0.679	0.805	0.696	0.744	6.33
25) I 1-bromo-2-nitrobenzen	ISTD									
26) Toxaphene{A}					0.013				0.013	0.00
27) Toxaphene{B}					0.036				0.036	0.00
28) Toxaphene{C}					0.027				0.027	0.00
29) Toxaphene{D}					0.022				0.022	0.00
30) Toxaphene{E}					0.024				0.024	0.00
31) I 1-bromo-2-nitrobenzen	ISTD									
32) Chlordane {A					0.061				0.061	0.00
33) Chlordane {B					0.037				0.037	0.00
34) Chlordane {C					0.127				0.127	0.00
35) Chlordane {D					0.198				0.198	0.00
36) Chlordane {E					0.030				0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	ISTD									
2) Tetrachloro-	0.920	0.911	0.888	0.883	0.906	0.922	0.926	0.918	0.909	1.76
3) alpha-BHC	1.196	1.181	1.182	1.259	1.341	1.406	1.169	1.384	1.265	7.77
4) gamma-BHC	1.127	1.092	1.090	1.136	1.203	1.252	1.128	1.237	1.158	5.50

Initial Calibration Summary

Job Number: JC21229 **Sample:** G4G1799-ICC1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68553A.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.200	1.144	1.129	1.142	1.204	1.222	1.153	1.212	1.176	3.18
6)	beta-BHC	0.573	0.526	0.518	0.513	0.524	0.524	0.527	0.524	0.529	3.52
7)	delta-BHC	0.992	0.990	0.980	1.029	1.107	1.166	0.919	1.138	1.040	8.38
8)	Aldrin	1.092	1.027	1.019	1.047	1.104	1.138	1.082	1.124	1.079	4.08
9)	Heptachlor E	0.974	0.933	0.946	0.955	0.994	1.008	1.028	1.002	0.980	3.40
10)	gamma-Chlord	0.964	0.936	0.923	0.947	0.990	1.013	0.933	1.002	0.964	3.54
11)	alpha-Chlord	0.968	0.907	0.913	0.927	0.957	0.974	1.007	0.969	0.953	3.60
12)	Endosulfan I	0.850	0.870	0.884	0.900	0.930	0.944	0.920	0.941	0.905	3.84
13)	4,4'-DDE	0.977	0.930	0.934	0.953	0.996	1.014	0.986	1.008	0.975	3.32
14)	Dieldrin	0.912	0.921	0.915	0.943	0.998	1.019	0.894	1.009	0.951	5.24
15)	Endrin	0.815	0.746	0.748	0.759	0.818	0.806	0.783	0.790	0.783	3.76
16)	4,4'-DDD	0.732	0.708	0.714	0.724	0.778	0.788	0.779	0.772	0.749	4.39
17)	Endosulfan I	0.874	0.831	0.829	0.829	0.858	0.864	1.021	0.861	0.871	7.27
18)	4,4'-DDT	0.731	0.743	0.726	0.734	0.786	0.809	0.785	0.801	0.764	4.48
19)	Endrin Aldeh	0.654	0.658	0.645	0.651	0.672	0.668	0.631	0.668	0.656	2.09
20)	Endosulfan S	0.739	0.722	0.695	0.698	0.713	0.717	0.776	0.719	0.722	3.53
21)	Methoxychlor	0.474	0.437	0.408	0.403	0.407	0.400	0.483	0.405	0.427	7.90
22)	Mirex	0.668	0.657	0.622	0.618	0.612	0.596	0.566	0.605	0.618	5.29
23)	Endrin Keton	0.852	0.822	0.802	0.811	0.840	0.846	0.799	0.847	0.827	2.61
24)	Decachlorobi	0.794	0.695	0.670	0.619	0.621	0.599	0.808	0.610	0.677	12.24

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.013	0.013	0.00
27)	Toxaphene{B}	0.023	0.023	0.00
28)	Toxaphene{C}	0.042	0.042	0.00
29)	Toxaphene{D}	0.025	0.025	0.00
30)	Toxaphene{E}	0.021	0.021	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.034	0.034	0.00
33)	Chlordane {B	0.036	0.036	0.00
34)	Chlordane {C	0.138	0.138	0.00
35)	Chlordane {D	0.225	0.225	0.00
36)	Chlordane {E	0.033	0.033	0.00

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

4PST1799.M Wed May 25 10:07:48 2016 RPT1

10.10.13 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1799-ICV1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68559A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1799\4g68559a.D\ECD1A.ch Vial: 13
Signal #2 : C:\msdchem\1\DATA\4G1799\4g68559a.D\ECD2B.ch
Acq On    : 24 May 2016   5:47 pm                    Operator: dharas
Sample    : icv1799-25                               Inst    : GC4G
Misc      : op94008,g4g1799,15.2,,,10,100            Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1799.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 25 09:54:43 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	1.86- 1.92
2	SAB	Tetrachloro-m-xylene	0.865	0.773	10.6	97	0.00	2.42- 2.48
3	A	alpha-BHC	1.181	0.998	15.5	92	0.00	2.89- 2.95
4	MA	gamma-BHC	1.077	0.920	14.6	93	0.00	3.19- 3.25
5	MA	Heptachlor	1.043	0.868	16.8	93	0.00	3.69- 3.75
6	B	beta-BHC	0.504	0.428	15.1	94	0.00	3.27- 3.33
7	B	delta-BHC	0.972	0.903	7.1	103	0.00	3.45- 3.51
8	MB	Aldrin	0.978	0.808	17.4	93	0.00	4.03- 4.09
9	B	Heptachlor Epoxide	0.906	0.770	15.0	94	0.00	4.76- 4.82
10	B	gamma-Chlordane	0.909	0.778	14.4	96	0.00	4.92- 4.98
11	B	alpha-Chlordane	0.861	0.751	12.8	95	0.00	5.09- 5.15
12	A	Endosulfan I	0.864	0.717	17.0	92	0.00	5.28- 5.34
13	B	4,4'-DDE	0.890	0.754	15.3	94	0.00	5.20- 5.26
14	MA	Dieldrin	0.885	0.776	12.3	96	0.00	5.61- 5.67
15	MA	Endrin	0.785	0.679	13.5	96	0.00	5.94- 6.00
16	A	4,4'-DDD	0.708	0.620	12.4	97	0.00	6.05- 6.11
17	B	Endosulfan II	0.800	0.679	15.1	94	0.00	6.27- 6.33
18	MA	4,4'-DDT	0.730	0.604	17.3	94	0.00	6.47- 6.53
19	B	Endrin Aldehyde	0.641	0.596	7.0	100	0.00	6.91- 6.97
20	B	Endosulfan Sulfate	0.712	0.604	15.2	94	0.00	7.62- 7.68
21	A	Methoxychlor	0.414	0.349	15.7	94	0.00	7.26- 7.32
23	B	Endrin Ketone	0.848	0.718	15.3	93	0.00	8.05- 8.11
24	SA	Decachlorobiphenyl	0.744	0.663	10.9	98	0.00	9.80- 9.86

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	2.03- 2.09
2	SAB	Tetrachloro-m-xylene	0.909	0.812	10.7	97	0.00	2.82- 2.88
3	A	alpha-BHC	1.265	1.096	13.4	92	0.00	3.46- 3.52
4	MA	gamma-BHC	1.158	0.994	14.2	93	0.00	3.89- 3.95
5	MA	Heptachlor	1.176	0.997	15.2	92	0.00	4.46- 4.52
6	B	beta-BHC	0.529	0.449	15.1	93	0.00	3.96- 4.02
7	B	delta-BHC	1.040	0.967	7.0	99	0.00	4.36- 4.42
8	MB	Aldrin	1.079	0.916	15.1	93	0.00	4.91- 4.97
9	B	Heptachlor Epoxide	0.980	0.840	14.3	93	0.00	5.73- 5.79
10	B	gamma-Chlordane	0.964	0.847	12.1	95	0.00	6.01- 6.07
11	B	alpha-Chlordane	0.953	0.821	13.9	94	0.00	6.24- 6.30
12	A	Endosulfan I	0.905	0.774	14.5	91	0.00	6.34- 6.40

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1799-ICV1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68559A.D
Project: BMSMC, Building 5 Area, PR

13	B	4,4'-DDE	0.975	0.847	13.1	94	0.00	6.50- 6.56
14	MA	Dieldrin	0.951	0.840	11.7	94	0.00	6.77- 6.83
15	MA	Endrin	0.783	0.717	8.4	100	0.00	7.27- 7.33
16	A	4,4'-DDD	0.749	0.673	10.1	98	0.00	7.45- 7.51
17	B	Endosulfan II	0.871	0.734	15.7	94	0.00	7.62- 7.68
18	MA	4,4'-DDT	0.764	0.638	16.5	92	0.00	7.98- 8.04
19	B	Endrin Aldehyde	0.656	0.598	8.8	97	0.00	8.19- 8.25
20	B	Endosulfan Sulfate	0.722	0.626	13.3	95	0.00	8.66- 8.72
21	A	Methoxychlor	0.427	0.347	18.7	91	0.00	9.22- 9.28
23	B	Endrin Ketone	0.827	0.708	14.4	92	0.00	9.62- 9.68
24	SA	Decachlorobiphenyl	0.677	0.610	9.9	104	0.00	11.15-11.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68553a.D 4PST1799.M Wed May 25 09:58:10 2016 RPT1

10.10.14 10

Initial Calibration Verification

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: G4G1799-ICV1799
Lab FileID: 4G68560A.D

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1799\4g68560a.D\ECD1A.ch Vial: 14
Signal #2 : C:\msdchem\1\DATA\4G1799\4g68560a.D\ECD2B.ch
Acq On    : 24 May 2016   6:02 pm                    Operator: dharas
Sample    : icv1799-25                               Inst    : GC4G
Misc      : op94008,g4g1799,15.2,,,10,100            Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1799.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 25 09:54:43 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	1.86- 1.92
22	Mirex	0.653	0.632	3.2	102	0.00	7.41- 7.47

***** Signal #2 *****

1 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	106	0.00	2.04- 2.10
22	Mirex	0.618	0.589	4.7	101	0.00	9.56- 9.62

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68553a.D 4PST1799.M Wed May 25 09:58:12 2016 RPT1

10.10.15 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1799-ICV1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68561A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1799\4g68561a.D\ECD1A.ch Vial: 15
Signal #2 : C:\msdchem\1\DATA\4G1799\4g68561a.D\ECD2B.ch
Acq On    : 24 May 2016   6:17 pm                    Operator: dharas
Sample    : icv1799-500                              Inst    : GC4G
Misc      : op94008,g4g1799,15.2,,,10,100            Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1799.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 25 09:54:43 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	114	0.00	1.79- 1.99
32	Chlordane {A}	0.030	0.032	-6.7	121	0.00	3.53- 3.73
33	Chlordane {B}	0.037	0.033	10.8	101	0.00	4.10- 4.30
34	Chlordane {C}	0.127	0.110	13.4	98	0.00	4.85- 5.05
35	Chlordane {D}	0.198	0.173	12.6	100	0.00	5.01- 5.21
36	Chlordane {E}	0.030	0.027	10.0	100	0.00	6.09- 6.29

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	119	0.00	1.96- 2.16
32	Chlordane {A}	0.034	0.037	-8.8	129	0.01	4.19- 4.39
33	Chlordane {B}	0.036	0.033	8.3	109	0.01	5.03- 5.23
34	Chlordane {C}	0.138	0.116	15.9	99	0.01	5.94- 6.14
35	Chlordane {D}	0.225	0.189	16.0	100	0.01	6.17- 6.37
36	Chlordane {E}	0.033	0.029	12.1	105	0.01	7.63- 7.83

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68554a.D 4PST1799.M Wed May 25 09:58:28 2016 RPT1

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1799-ICV1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68562A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1799\4g68562a.D\ECD1A.ch Vial: 16
Signal #2 : C:\msdchem\1\DATA\4G1799\4g68562a.D\ECD2B.ch
Acq On    : 24 May 2016   6:32 pm                    Operator: dharas
Sample    : icv1799-500                              Inst    : GC4G
Misc      : op94008,g4g1799,15.2,,,10,100            Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1799.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Wed May 25 09:54:43 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.79- 1.99
26	L8	Toxaphene{A}	0.013	0.014	-7.7	103	0.00	5.55- 5.75
27	L8	Toxaphene{B}	0.036	0.036	0.0	99	0.00	6.18- 6.38
28	L8	Toxaphene{C}	0.027	0.028	-3.7	102	0.00	6.36- 6.56
29	L8	Toxaphene{D}	0.022	0.021	4.5	96	0.00	6.70- 6.90
30	L8	Toxaphene{E}	0.024	0.023	4.2	95	0.00	7.37- 7.57

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.97- 2.17
26	L8	Toxaphene{A}	0.013	0.011	15.4	86	0.00	6.66- 6.86
27	L8	Toxaphene{B}	0.023	0.024	-4.3	105	0.00	7.52- 7.72
28	L8	Toxaphene{C}	0.042	0.039	7.1	92	0.00	7.68- 7.88
29	L8	Toxaphene{D}	0.025	0.024	4.0	97	0.00	8.12- 8.32
30	L8	Toxaphene{E}	0.021	0.020	4.8	95	0.00	9.02- 9.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68554a.D 4PST1799.M Wed May 25 09:58:30 2016 RPT1

10.10.17 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1806-CC1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68823.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1806\4g68823.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1806\4g68823.D\ECD2B.ch
Acq On    :  2 Jun 2016  12:08 pm                    Operator: dharas
Sample    : cc1799-25                                Inst    : GC4G
Misc      : op94298,g4g1806,900,,,5,1                Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1799.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Thu May 26 14:17:20 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	92	-0.02	1.84- 1.90
2	SAB	Tetrachloro-m-xylene	0.865	0.875	-1.2	96	-0.02	2.40- 2.46
3	A	alpha-BHC	1.181	1.284	-8.7	103	-0.02	2.88- 2.94
4	MA	gamma-BHC	1.077	1.168	-8.4	103	-0.02	3.17- 3.23
5	MA	Heptachlor	1.043	1.110	-6.4	103	-0.02	3.67- 3.73
6	B	beta-BHC	0.504	0.522	-3.6	99	-0.02	3.25- 3.31
7	B	delta-BHC	0.972	1.114	-14.6	110	-0.01	3.44- 3.50
8	MB	Aldrin	0.978	1.084	-10.8	108	-0.02	4.01- 4.07
9	B	Heptachlor Epoxide	0.906	1.004	-10.8	107	-0.02	4.74- 4.80
10	B	gamma-Chlordane	0.909	1.013	-11.4	109	-0.02	4.90- 4.96
11	B	alpha-Chlordane	0.861	0.994	-15.4	109	-0.02	5.07- 5.13
12	A	Endosulfan I	0.864	0.976	-13.0	109	-0.02	5.26- 5.32
13	B	4,4'-DDE	0.890	0.981	-10.2	106	-0.02	5.18- 5.24
14	MA	Dieldrin	0.885	1.030	-16.4	110	-0.02	5.59- 5.65
15	MA	Endrin	0.785	0.918	-16.9	113	-0.02	5.92- 5.98
16	A	4,4'-DDD	0.708	0.811	-14.5	110	-0.02	6.04- 6.10
17	B	Endosulfan II	0.800	0.894	-11.7	107	-0.02	6.25- 6.31
18	MA	4,4'-DDT	0.730	0.656	10.1	89	-0.02	6.45- 6.51
19	B	Endrin Aldehyde	0.641	0.710	-10.8	103	-0.02	6.89- 6.95
20	B	Endosulfan Sulfate	0.712	0.774	-8.7	105	-0.03	7.59- 7.65
21	A	Methoxychlor	0.414	0.362	12.6	85	-0.01	7.25- 7.31
22		Mirex	0.653	0.710	-8.7	104	-0.02	7.39- 7.45
23	B	Endrin Ketone	0.848	0.935	-10.3	105	-0.03	8.03- 8.09
24	SA	Decachlorobiphenyl	0.744	0.800	-7.5	102	-0.02	9.78- 9.84
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	-0.02	1.77- 1.97
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#	-0.02	1.77- 1.97
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.18 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1806-CC1799
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68823.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	103	-0.02	2.02- 2.08
2	SAB	Tetrachloro-m-xylene	0.909	0.837	7.9	97	-0.02	2.80- 2.86
3	A	alpha-BHC	1.265	1.269	-0.3	103	-0.02	3.45- 3.51
4	MA	gamma-BHC	1.158	1.139	1.6	103	-0.02	3.87- 3.93
5	MA	Heptachlor	1.176	1.084	7.8	97	-0.02	4.44- 4.50
6	B	beta-BHC	0.529	0.495	6.4	99	-0.02	3.95- 4.01
7	B	delta-BHC	1.040	1.058	-1.7	105	-0.02	4.34- 4.40
8	MB	Aldrin	1.079	1.084	-0.5	106	-0.02	4.89- 4.95
9	B	Heptachlor Epoxide	0.980	0.935	4.6	100	-0.02	5.71- 5.77
10	B	gamma-Chlordane	0.964	0.950	1.5	103	-0.02	5.99- 6.05
11	B	alpha-Chlordane	0.953	0.913	4.2	101	-0.02	6.22- 6.28
12	A	Endosulfan I	0.905	0.899	0.7	102	-0.02	6.31- 6.37
13	B	4,4'-DDE	0.975	0.931	4.5	100	-0.02	6.48- 6.54
14	MA	Dieldrin	0.951	0.944	0.7	103	-0.02	6.75- 6.81
15	MA	Endrin	0.783	0.788	-0.6	106	-0.02	7.25- 7.31
16	A	4,4'-DDD	0.749	0.711	5.1	101	-0.02	7.43- 7.49
17	B	Endosulfan II	0.871	0.784	10.0	97	-0.02	7.60- 7.66
18	MA	4,4'-DDT	0.764	0.558	27.0#	78	-0.02	7.96- 8.02
19	B	Endrin Aldehyde	0.656	0.590	10.1	93	-0.03	8.17- 8.23
20	B	Endosulfan Sulfate	0.722	0.612	15.2	90	-0.02	8.63- 8.69
21	A	Methoxychlor	0.427	0.274	35.8#	70	-0.02	9.20- 9.26
22		Mirex	0.618	0.493	20.2#	82	-0.03	9.53- 9.59
23	B	Endrin Ketone	0.827	0.687	16.9	87	-0.02	9.59- 9.65
24	SA	Decachlorobiphenyl	0.677	0.491	27.5#	81	-0.02	11.14-11.20
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	0#	-0.01	1.95- 2.15
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	1.95- 2.15
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
4g68553a.D 4PST1799.M Thu Jun 02 14:44:45 2016 RPT1

10.10.18 10

Initial Calibration Summary

Job Number: JC21229 **Sample:** G4G1811-ICC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68900.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 06 16:59:12 2016
Response via : Initial Calibration

Calibration Files
1 =4g68896.D 2 =4g68897.D 5 =4g68898.D 10 =4g68899.D
25 =4g68900.D 50 =4g68901.D 75 =4g68902.D 100 =4g68903.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen					ISTD					
2) Tetrachloro-	0.894	0.884	0.869	0.864	0.861	0.852		0.854	0.868	1.82
3) alpha-BHC	1.154	1.162	1.171	1.178	1.258	1.279	1.248	1.270	1.215	4.41
4) gamma-BHC	1.060	1.076	1.085	1.077	1.149	1.156	1.108	1.151	1.108	3.51
5) Heptachlor	1.055	1.070	1.040	1.029	1.092	1.096	1.148	1.091	1.078	3.49
6) beta-BHC	0.508	0.520	0.520	0.496	0.511	0.494	0.558	0.498	0.513	4.05
7) delta-BHC	0.985	1.044	1.022	1.038	1.125	1.139	1.067	1.129	1.069	5.31
8) Aldrin	0.991	1.000	0.984	0.975	1.030	1.037	1.058	1.029	1.013	2.91
9) Heptachlor E	0.961	0.932	0.932	0.904	0.938	0.927	1.059	0.932	0.948	5.00
10) gamma-Chlord	0.947	0.981	0.933	0.911	0.938	0.932	1.092	0.938	0.959	5.97
11) alpha-Chlord	0.946	0.946	0.900	0.889	0.913	0.908	1.041	0.915	0.932	5.19
12) Endosulfan I	0.905	0.934	0.895	0.886	0.911	0.908	0.917	0.915	0.909	1.57
13) 4,4'-DDE	0.896	0.910	0.879	0.875	0.912	0.915	0.922	0.918	0.903	2.00
14) Dieldrin	0.932	0.932	0.921	0.917	0.965	0.961	1.084	0.959	0.959	5.60
15) Endrin	0.808	0.837	0.812	0.813	0.850	0.845	0.909	0.843	0.839	3.89
16) 4,4'-DDD	0.748	0.737	0.722	0.743	0.771	0.766	0.795	0.767	0.756	3.06
17) Endosulfan I	0.861	0.855	0.823	0.834	0.857	0.847	0.912	0.853	0.855	3.06
18) 4,4'-DDT	0.729	0.726	0.729	0.729	0.768	0.791	0.777	0.790	0.755	3.88
19) Endrin Aldeh	0.662	0.705	0.672	0.665	0.684	0.660	0.737	0.666	0.681	3.96
20) Endosulfan S	0.807	0.772	0.744	0.719	0.739	0.719	0.798	0.728	0.753	4.62
21) Methoxychlor	0.423	0.419	0.410	0.394	0.407	0.394	0.420	0.401	0.408	2.83
22) Mirex	0.734	0.739	0.710	0.663	0.659	0.630	0.749	0.645	0.691	6.81
23) Endrin Keton	0.859	0.874	0.855	0.838	0.863	0.844	0.994	0.848	0.872	5.82
24) Decachlorobi	0.775	0.778	0.771	0.727	0.728	0.699	0.831	0.704	0.752	5.97
25) I 1-bromo-2-nitrobenzen					ISTD					
26) Toxaphene{A}					0.017				0.017	0.00
27) Toxaphene{B}					0.043				0.043	0.00
28) Toxaphene{C}					0.034				0.034	0.00
29) Toxaphene{D}					0.027				0.027	0.00
30) Toxaphene{E}					0.030				0.030	0.00
31) I 1-bromo-2-nitrobenzen					ISTD					
32) Chlordane {A					0.031				0.031	0.00
33) Chlordane {B					0.038				0.038	0.00
34) Chlordane {C					0.127				0.127	0.00
35) Chlordane {D					0.195				0.195	0.00
36) Chlordane {E					0.030				0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen					ISTD					
2) Tetrachloro-	0.901	0.922	0.904	0.901	0.904	0.917	0.940	0.915	0.913	1.49
3) alpha-BHC	1.215	1.221	1.243	1.294	1.365	1.414	1.210	1.396	1.295	6.60
4) gamma-BHC	1.220	1.140	1.142	1.170	1.229	1.264	1.245	1.249	1.208	4.10

Initial Calibration Summary

Job Number: JC21229 **Sample:** G4G1811-ICC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68900.D
Project: BMSMC, Building 5 Area, PR

5)	Heptachlor	1.153	1.167	1.133	1.171	1.207	1.239	1.140	1.224	1.179	3.36
6)	beta-BHC	0.591	0.543	0.535	0.522	0.535	0.533	0.626	0.534	0.552	6.58
7)	delta-BHC	1.046	1.067	1.073	1.130	1.180	1.225	1.027	1.199	1.118	6.77
8)	Aldrin	1.154	1.097	1.096	1.094	1.133	1.166	1.313	1.153	1.151	6.23
9)	Heptachlor E	0.960	0.983	0.953	0.983	1.007	1.015	0.929	1.012	0.980	3.16
10)	gamma-Chlord	0.982	0.992	0.958	0.970	0.998	1.013	0.975	1.007	0.987	1.94
11)	alpha-Chlord	1.000	0.952	0.948	0.937	0.953	0.962	0.985	0.959	0.962	2.16
12)	Endosulfan I	0.954	0.913	0.909	0.909	0.928	0.931	0.909	0.930	0.923	1.75
13)	4,4'-DDE	1.019	0.948	0.937	0.958	0.975	0.980	1.008	0.971	0.974	2.88
14)	Dieldrin	0.958	0.971	0.947	0.950	0.983	0.996	0.980	0.986	0.972	1.85
15)	Endrin	0.846	0.860	0.811	0.803	0.813	0.825	0.806	0.813	0.822	2.48
16)	4,4'-DDD	0.737	0.792	0.739	0.726	0.741	0.748	0.739	0.736	0.745	2.68
17)	Endosulfan I	0.868	0.860	0.830	0.787	0.810	0.808	0.858	0.795	0.827	3.84
18)	4,4'-DDT	0.667	0.730	0.682	0.682	0.702	0.730	0.707	0.720	0.702	3.39
19)	Endrin Aldeh	0.622	0.652	0.615	0.616	0.610	0.601	0.637	0.600	0.619	2.88
20)	Endosulfan S	0.670	0.675	0.650	0.635	0.632	0.623	0.648	0.627	0.645	3.00
21)	Methoxychlor	0.344	0.337	0.327	0.331	0.329	0.328	0.320	0.330	0.331	2.14
22)	Mirex	0.508	0.529	0.521	0.503	0.495	0.482	0.530	0.487	0.507	3.66
23)	Endrin Keton	0.681	0.697	0.681	0.677	0.688	0.682	0.722	0.678	0.688	2.17
24)	Decachlorobi	0.542	0.498	0.495	0.486	0.488	0.485	0.508	0.479	0.498	4.03

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.024	0.024	0.00
27)	Toxaphene{B}	0.025	0.025	0.00
28)	Toxaphene{C}	0.045	0.045	0.00
29)	Toxaphene{D}	0.027	0.027	0.00
30)	Toxaphene{E}	0.020	0.020	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.034	0.034	0.00
33)	Chlordane {B	0.038	0.038	0.00
34)	Chlordane {C	0.130	0.130	0.00
35)	Chlordane {D	0.211	0.211	0.00
36)	Chlordane {E	0.033	0.033	0.00

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

4PST1811.M Mon Jun 06 17:13:45 2016 RPT1

10.10.19 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1811-ICV1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68906.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1811\4g68906.D\ECD1A.ch  Vial: 13
Signal #2 : C:\msdchem\1\DATA\4G1811\4g68906.D\ECD2B.ch
Acq On    :  6 Jun 2016   2:16 pm                    Operator: josephr
Sample    : icv1811-25                               Inst    : GC4G
Misc      : op94393,g4g1811,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.84- 1.90
2	SAB	Tetrachloro-m-xylene	0.868	0.821	5.4	93	0.00	2.40- 2.46
3	A	alpha-BHC	1.215	1.098	9.6	91	0.00	2.87- 2.93
4	MA	gamma-BHC	1.108	1.018	8.1	92	0.00	3.17- 3.23
5	MA	Heptachlor	1.078	0.986	8.5	94	0.00	3.67- 3.73
6	B	beta-BHC	0.513	0.460	10.3	91	0.00	3.25- 3.31
7	B	delta-BHC	1.069	1.027	3.9	97	0.00	3.44- 3.50
8	MB	Aldrin	1.013	0.915	9.7	92	0.00	4.00- 4.06
9	B	Heptachlor Epoxide	0.948	0.864	8.9	93	0.00	4.73- 4.79
10	B	gamma-Chlordane	0.959	0.868	9.5	93	0.00	4.90- 4.96
11	B	alpha-Chlordane	0.932	0.837	10.2	92	0.00	5.07- 5.13
12	A	Endosulfan I	0.909	0.820	9.8	90	0.00	5.26- 5.32
13	B	4,4'-DDE	0.903	0.825	8.6	92	0.00	5.18- 5.24
14	MA	Dieldrin	0.959	0.876	8.7	93	0.00	5.58- 5.64
15	MA	Endrin	0.839	0.799	4.8	96	0.00	5.91- 5.97
16	A	4,4'-DDD	0.756	0.686	9.3	90	0.00	6.03- 6.09
17	B	Endosulfan II	0.855	0.764	10.6	90	0.00	6.24- 6.30
18	MA	4,4'-DDT	0.755	0.706	6.5	95	0.00	6.45- 6.51
19	B	Endrin Aldehyde	0.681	0.623	8.5	92	0.00	6.89- 6.95
20	B	Endosulfan Sulfate	0.753	0.672	10.8	91	0.00	7.58- 7.64
21	A	Methoxychlor	0.408	0.385	5.6	95	0.00	7.24- 7.30
23	B	Endrin Ketone	0.872	0.776	11.0	90	0.00	8.02- 8.08
24	SA	Decachlorobiphenyl	0.752	0.723	3.9	97	0.00	9.77- 9.83

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	2.02- 2.08
2	SAB	Tetrachloro-m-xylene	0.913	0.859	5.9	96	0.00	2.79- 2.85
3	A	alpha-BHC	1.295	1.182	8.7	91	0.00	3.44- 3.50
4	MA	gamma-BHC	1.208	1.075	11.0	92	0.00	3.86- 3.92
5	MA	Heptachlor	1.179	1.087	7.8	93	0.00	4.44- 4.50
6	B	beta-BHC	0.552	0.480	13.0	92	0.00	3.94- 4.00
7	B	delta-BHC	1.118	1.073	4.0	95	0.00	4.34- 4.40
8	MB	Aldrin	1.151	1.004	12.8	92	0.00	4.88- 4.94
9	B	Heptachlor Epoxide	0.980	0.911	7.0	93	0.00	5.70- 5.76
10	B	gamma-Chlordane	0.987	0.911	7.7	94	0.00	5.98- 6.04
11	B	alpha-Chlordane	0.962	0.862	10.4	92	0.00	6.21- 6.27
12	A	Endosulfan I	0.923	0.818	11.4	90	0.00	6.31- 6.37
13	B	4,4'-DDE	0.974	0.877	10.0	92	0.00	6.47- 6.53
14	MA	Dieldrin	0.972	0.891	8.3	94	0.00	6.74- 6.80

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1811-ICV1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68906.D
Project: BMSMC, Building 5 Area, PR

15	MA	Endrin	0.822	0.764	7.1	95	0.00	7.24- 7.30
16	A	4,4'-DDD	0.745	0.665	10.7	92	0.00	7.42- 7.48
17	B	Endosulfan II	0.827	0.738	10.8	94	0.00	7.59- 7.65
18	MA	4,4'-DDT	0.702	0.659	6.1	97	0.00	7.95- 8.01
19	B	Endrin Aldehyde	0.619	0.557	10.0	91	0.00	8.16- 8.22
20	B	Endosulfan Sulfate	0.645	0.588	8.8	93	0.00	8.63- 8.69
21	A	Methoxychlor	0.331	0.308	6.9	93	0.00	9.19- 9.25
23	B	Endrin Ketone	0.688	0.611	11.2	90	0.00	9.58- 9.64
24	SA	Decachlorobiphenyl	0.498	0.480	3.6	99	0.00	11.13-11.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68900.D 4PST1811.M Mon Jun 06 17:13:15 2016 RPT1

10.10.20 10

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1811-ICV1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68907.D
Project: BMSMC, Building 5 Area, PR

```
                    Evaluate Continuing Calibration Report

 Signal #1 : C:\msdchem\1\DATA\4G1811\4g68907.D\ECD1A.ch  Vial: 14
 Signal #2 : C:\msdchem\1\DATA\4G1811\4g68907.D\ECD2B.ch
 Acq On    :  6 Jun 2016   2:31 pm                    Operator: josephr
 Sample    : icv1811-25                               Inst    : GC4G
 Misc      : op94393,g4g1811,15.0,,,10,1              Multiplr: 1.00
 IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

 Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
 Title        : PEST/PCB
 Last Update  : Mon Jun 06 16:59:12 2016
 Response via : Multiple Level Calibration

 Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
 Max. RRF Dev :  20%     Max. Rel. Area : 200%

        Compound                AvgRF   CCRF      %Dev Area% Dev(min)RT Window
 ---------------------------------------------------------------------------

 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0   98   0.00    1.84- 1.90
22     Mirex                    0.691   0.650      5.9   96   0.00    7.39- 7.45

*****  Signal #2   *****

 1 I   1-bromo-2-nitrobenzene   1.000   1.000      0.0   98   0.00    2.02- 2.08
22     Mirex                    0.507   0.505      0.4   98   0.00    9.52- 9.58

---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range              SPCC's out = 0  CCC's out = 0
    4g68900.D  4PST1811.M       Mon Jun 06 17:13:17 2016   RPT1
```

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1811-ICV1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68908.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1811\4g68908.D\ECD1A.ch  Vial: 15
Signal #2 : C:\msdchem\1\DATA\4G1811\4g68908.D\ECD2B.ch
Acq On    :  6 Jun 2016   2:46 pm                    Operator: josephr
Sample    : icv1811-500                              Inst    : GC4G
Misc      : op94393,g4g1811,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	97	0.00	1.77- 1.97
32	Chlordane {A}	0.031	0.036	-16.1	111	0.00	3.51- 3.71
33	Chlordane {B}	0.038	0.038	0.0	97	0.00	4.08- 4.28
34	Chlordane {C}	0.127	0.122	3.9	93	0.00	4.83- 5.03
35	Chlordane {D}	0.195	0.191	2.1	95	0.00	4.99- 5.19
36	Chlordane {E}	0.030	0.030	0.0	96	0.00	6.07- 6.27
***** Signal #2 *****							
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	101	0.00	1.95- 2.15
32	Chlordane {A}	0.034	0.040	-17.6	117	0.00	4.17- 4.37
33	Chlordane {B}	0.038	0.039	-2.6	105	0.00	5.01- 5.21
34	Chlordane {C}	0.130	0.120	7.7	94	0.00	5.91- 6.11
35	Chlordane {D}	0.211	0.196	7.1	94	0.00	6.14- 6.34
36	Chlordane {E}	0.033	0.030	9.1	93	0.00	7.60- 7.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68901.D 4PST1811.M Mon Jun 06 17:13:30 2016 RPT1

Initial Calibration Verification

Job Number: JC21229 **Sample:** G4G1811-ICV1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68909.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1811\4g68909.D\ECD1A.ch  Vial: 16
Signal #2 : C:\msdchem\1\DATA\4G1811\4g68909.D\ECD2B.ch
Acq On    :  6 Jun 2016   3:01 pm                    Operator: josephr
Sample    : icv1811-500                              Inst    : GC4G
Misc      : op94393,g4g1811,15.0,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.77- 1.97
26	L8	Toxaphene{A}	0.017	0.016	5.9	92	0.00	5.52- 5.72
27	L8	Toxaphene{B}	0.043	0.040	7.0	92	0.00	6.16- 6.36
28	L8	Toxaphene{C}	0.034	0.031	8.8	92	0.00	6.34- 6.54
29	L8	Toxaphene{D}	0.027	0.025	7.4	94	0.00	6.67- 6.87
30	L8	Toxaphene{E}	0.030	0.026	13.3	88	0.00	7.34- 7.54

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	100	0.00	1.95- 2.15
26	L8	Toxaphene{A}	0.024	0.024	0.0	100	0.00	6.63- 6.83
27	L8	Toxaphene{B}	0.025	0.024	4.0	96	0.00	7.49- 7.69
28	L8	Toxaphene{C}	0.045	0.042	6.7	94	0.00	7.65- 7.85
29	L8	Toxaphene{D}	0.027	0.026	3.7	95	0.00	8.09- 8.29
30	L8	Toxaphene{E}	0.020	0.020	0.0	98	0.00	8.99- 9.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68901.D 4PST1811.M Mon Jun 06 17:13:32 2016 RPT1

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1813-CC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68947.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1813\4g68947.D\ECD1A.ch  Vial: 2
Signal #2 : C:\msdchem\1\DATA\4G1813\4g68947.D\ECD2B.ch
Acq On    :  7 Jun 2016  11:57 am                    Operator: kristend
Sample    : cc1811-25                                Inst    : GC4G
Misc      : op94421,g4g1813,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.85- 1.91
2	SAB	Tetrachloro-m-xylene	0.868	0.867	0.1	96	0.00	2.40- 2.46
3	A	alpha-BHC	1.215	1.229	-1.2	100	0.00	2.88- 2.94
4	MA	gamma-BHC	1.108	1.126	-1.6	101	0.00	3.17- 3.23
5	MA	Heptachlor	1.078	1.107	-2.7	103	0.00	3.67- 3.73
6	B	beta-BHC	0.513	0.506	1.4	98	0.00	3.25- 3.31
7	B	delta-BHC	1.069	1.039	2.8	96	0.00	3.44- 3.50
8	MB	Aldrin	1.013	1.040	-2.7	102	0.00	4.01- 4.07
9	B	Heptachlor Epoxide	0.948	0.961	-1.4	102	0.00	4.74- 4.80
10	B	gamma-Chlordane	0.959	0.962	-0.3	102	0.00	4.90- 4.96
11	B	alpha-Chlordane	0.932	0.945	-1.4	102	0.00	5.08- 5.14
12	A	Endosulfan I	0.909	0.937	-3.1	102	0.00	5.26- 5.32
13	B	4,4'-DDE	0.903	0.970	-7.4	107	0.00	5.18- 5.24
14	MA	Dieldrin	0.959	0.984	-2.6	103	0.00	5.59- 5.65
15	MA	Endrin	0.839	0.896	-6.8	106	0.00	5.92- 5.98
16	A	4,4'-DDD	0.756	0.751	0.7	97	0.00	6.03- 6.09
17	B	Endosulfan II	0.855	0.862	-0.8	99	0.00	6.25- 6.31
18	MA	4,4'-DDT	0.755	0.757	-0.3	100	0.00	6.46- 6.52
19	B	Endrin Aldehyde	0.681	0.674	1.0	97	0.00	6.89- 6.95
20	B	Endosulfan Sulfate	0.753	0.687	8.8	92	0.00	7.59- 7.65
21	A	Methoxychlor	0.408	0.406	0.5	99	0.00	7.24- 7.30
22		Mirex	0.691	0.676	2.2	98	0.00	7.39- 7.45
23	B	Endrin Ketone	0.872	0.806	7.6	92	0.00	8.03- 8.09
24	SA	Decachlorobiphenyl	0.752	0.764	-1.6	101	0.00	9.78- 9.84

***** Signal #2 *****

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	-0.01	2.01- 2.07
2	SAB	Tetrachloro-m-xylene	0.913	0.882	3.4	96	-0.01	2.78- 2.84
3	A	alpha-BHC	1.295	1.271	1.9	97	-0.02	3.43- 3.49
4	MA	gamma-BHC	1.208	1.152	4.6	97	-0.02	3.85- 3.91
5	MA	Heptachlor	1.179	1.149	2.5	96	-0.02	4.42- 4.48
6	B	beta-BHC	0.552	0.507	8.2	95	-0.02	3.93- 3.99
7	B	delta-BHC	1.118	1.050	6.1	91	-0.02	4.32- 4.38
8	MB	Aldrin	1.151	1.085	5.7	97	-0.02	4.87- 4.93
9	B	Heptachlor Epoxide	0.980	0.973	0.7	97	-0.02	5.69- 5.75
10	B	gamma-Chlordane	0.987	0.970	1.7	98	-0.02	5.97- 6.03
11	B	alpha-Chlordane	0.962	0.939	2.4	99	-0.02	6.19- 6.25
12	A	Endosulfan I	0.923	0.914	1.0	99	-0.02	6.29- 6.35
13	B	4,4'-DDE	0.974	0.963	1.1	99	-0.02	6.45- 6.51

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1813-CC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68947.D
Project: BMSMC, Building 5 Area, PR

14	MA	Dieldrin	0.972	0.957	1.5	99	-0.02	6.72- 6.78
15	MA	Endrin	0.822	0.825	-0.4	101	-0.02	7.23- 7.29
16	A	4,4'-DDD	0.745	0.727	2.4	98	-0.01	7.40- 7.46
17	B	Endosulfan II	0.827	0.795	3.9	99	-0.01	7.57- 7.63
18	MA	4,4'-DDT	0.702	0.689	1.9	99	-0.01	7.94- 8.00
19	B	Endrin Aldehyde	0.619	0.601	2.9	96	-0.01	8.15- 8.21
20	B	Endosulfan Sulfate	0.645	0.597	7.4	92	-0.01	8.61- 8.67
21	A	Methoxychlor	0.331	0.337	-1.8	100	-0.01	9.18- 9.24
22		Mirex	0.507	0.508	-0.2	99	-0.01	9.51- 9.57
23	B	Endrin Ketone	0.688	0.643	6.5	93	-0.01	9.57- 9.63
24	SA	Decachlorobiphenyl	0.498	0.514	-3.2	104	0.00	11.13-11.19

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68900.D 4PST1811.M Tue Jun 07 14:47:21 2016 RPT1

10.10.24
10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1813-CC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68948.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1813\4g68948.D\ECD1A.ch  Vial: 5
Signal #2 : C:\msdchem\1\DATA\4G1813\4g68948.D\ECD2B.ch
Acq On    :  7 Jun 2016  12:12 pm                    Operator: kristend
Sample    : cc1811-500                               Inst    : GC4G
Misc      : op94421,g4g1813,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.77- 1.97
32	Chlordane {A}	0.031	0.031	0.0	105	0.00	3.51- 3.71
33	Chlordane {B}	0.038	0.037	2.6	105	0.00	4.08- 4.28
34	Chlordane {C}	0.127	0.127	0.0	106	0.00	4.82- 5.02
35	Chlordane {D}	0.195	0.197	-1.0	107	0.00	4.98- 5.18
36	Chlordane {E}	0.030	0.030	0.0	105	0.00	6.06- 6.26

***** Signal #2 *****

31 I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	109	0.00	1.95- 2.15
32	Chlordane {A}	0.034	0.033	2.9	106	0.00	4.17- 4.37
33	Chlordane {B}	0.038	0.036	5.3	104	0.00	5.00- 5.20
34	Chlordane {C}	0.130	0.123	5.4	103	0.00	5.91- 6.11
35	Chlordane {D}	0.211	0.199	5.7	103	0.00	6.13- 6.33
36	Chlordane {E}	0.033	0.028	15.2	93	0.00	7.59- 7.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4g68901.D 4PST1811.M Tue Jun 07 14:21:20 2016 RPT1

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1813-CC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68949.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1813\4g68949.D\ECD1A.ch  Vial: 6
Signal #2 : C:\msdchem\1\DATA\4G1813\4g68949.D\ECD2B.ch
Acq On    :  7 Jun 2016  12:27 pm                    Operator: kristend
Sample    : cc1811-500                               Inst    : GC4G
Misc      : op94421,g4g1813,1000,,,5,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	105	0.00	1.77- 1.97
26	L8	Toxaphene{A}	0.017	0.018	-5.9	110	0.00	5.52- 5.72
27	L8	Toxaphene{B}	0.043	0.043	0.0	105	0.00	6.15- 6.35
28	L8	Toxaphene{C}	0.034	0.036	-5.9	110	0.00	6.34- 6.54
29	L8	Toxaphene{D}	0.027	0.027	0.0	108	0.00	6.67- 6.87
30	L8	Toxaphene{E}	0.030	0.029	3.3	102	0.00	7.34- 7.54

***** Signal #2 *****

25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	108	0.00	1.95- 2.15
26	L8	Toxaphene{A}	0.024	0.023	4.2	104	0.00	6.63- 6.83
27	L8	Toxaphene{B}	0.025	0.024	4.0	103	0.00	7.48- 7.68
28	L8	Toxaphene{C}	0.045	0.043	4.4	103	0.00	7.65- 7.85
29	L8	Toxaphene{D}	0.027	0.025	7.4	101	0.00	8.08- 8.28
30	L8	Toxaphene{E}	0.020	0.019	5.0	102	0.00	8.98- 9.18

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 4g68901.D  4PST1811.M       Tue Jun 07 14:21:22 2016   RPT1
```

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1813-CC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68959.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\DATA\4G1813\4g68959.D\ECD1A.ch  Vial: 4
Signal #2 : C:\msdchem\1\DATA\4G1813\4g68959.D\ECD2B.ch
Acq On    :  7 Jun 2016   4:31 pm                    Operator: dharas
Sample    : cc1811-50                                Inst    : GC4G
Misc      : op94393,g4g1813,990,,,10,5               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title        : PEST/PCB
Last Update  : Mon Jun 06 16:59:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.10min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	96	0.00	1.85- 1.91
2	SAB	Tetrachloro-m-xylene	0.868	0.868	0.0	97	0.00	2.41- 2.47
3	A	alpha-BHC	1.215	1.246	-2.6	95	0.00	2.88- 2.94
4	MA	gamma-BHC	1.108	1.133	-2.3	94	0.00	3.17- 3.23
5	MA	Heptachlor	1.078	1.114	-3.3	98	0.00	3.67- 3.73
6	B	beta-BHC	0.513	0.490	4.5	92	0.00	3.25- 3.31
7	B	delta-BHC	1.069	1.082	-1.2	92	0.00	3.44- 3.50
8	MB	Aldrin	1.013	1.031	-1.8	96	0.00	4.01- 4.07
9	B	Heptachlor Epoxide	0.948	0.897	5.4	92	0.00	4.74- 4.80
10	B	gamma-Chlordane	0.959	0.913	4.8	93	0.00	4.90- 4.96
11	B	alpha-Chlordane	0.932	0.902	3.2	95	0.00	5.07- 5.13
12	A	Endosulfan I	0.909	0.883	2.9	93	0.00	5.26- 5.32
13	B	4,4'-DDE	0.903	0.912	-1.0	96	0.00	5.18- 5.24
14	MA	Dieldrin	0.959	0.942	1.8	94	0.00	5.58- 5.64
15	MA	Endrin	0.839	0.884	-5.4	100	0.00	5.91- 5.97
16	A	4,4'-DDD	0.756	0.750	0.8	93	0.00	6.03- 6.09
17	B	Endosulfan II	0.855	0.833	2.6	93	0.00	6.24- 6.30
18	MA	4,4'-DDT	0.755	0.769	-1.9	96	0.00	6.45- 6.51
19	B	Endrin Aldehyde	0.681	0.650	4.6	91	0.00	6.89- 6.95
20	B	Endosulfan Sulfate	0.753	0.718	4.6	93	0.00	7.58- 7.64
21	A	Methoxychlor	0.408	0.411	-0.7	97	0.00	7.24- 7.30
22		Mirex	0.691	0.627	9.3	91	0.00	7.39- 7.45
23	B	Endrin Ketone	0.872	0.827	5.2	92	0.00	8.02- 8.08
24	SA	Decachlorobiphenyl	0.752	0.707	6.0	93	0.00	9.77- 9.83
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	95	0.00	1.78- 1.98
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	94	0.00	1.78- 1.98
32		Chlordane {A}		----------NA----------				
33		Chlordane {B}		----------NA----------				
34		Chlordane {C}		----------NA----------				
35		Chlordane {D}		----------NA----------				
36		Chlordane {E}		----------NA----------				

***** Signal #2 *****

10.10.27 10

Continuing Calibration Summary

Job Number: JC21229 **Sample:** G4G1813-CC1811
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4G68959.D
Project: BMSMC, Building 5 Area, PR

1	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	2.02- 2.08
2	SAB	Tetrachloro-m-xylene	0.913	0.869	4.8	95	0.00	2.79- 2.85
3	A	alpha-BHC	1.295	1.286	0.7	93	0.00	3.43- 3.49
4	MA	gamma-BHC	1.208	1.152	4.6	92	0.00	3.86- 3.92
5	MA	Heptachlor	1.179	1.171	0.7	96	0.00	4.43- 4.49
6	B	beta-BHC	0.552	0.492	10.9	91	0.00	3.94- 4.00
7	B	delta-BHC	1.118	1.081	3.3	90	0.00	4.33- 4.39
8	MB	Aldrin	1.151	1.049	8.9	91	-0.01	4.88- 4.94
9	B	Heptachlor Epoxide	0.980	0.927	5.4	91	0.00	5.69- 5.75
10	B	gamma-Chlordane	0.987	0.906	8.2	89	-0.01	5.98- 6.04
11	B	alpha-Chlordane	0.962	0.871	9.5	90	0.00	6.20- 6.26
12	A	Endosulfan I	0.923	0.848	8.1	90	-0.01	6.30- 6.36
13	B	4,4'-DDE	0.974	0.900	7.6	91	0.00	6.46- 6.52
14	MA	Dieldrin	0.972	0.904	7.0	91	0.00	6.73- 6.79
15	MA	Endrin	0.822	0.796	3.2	97	0.00	7.23- 7.29
16	A	4,4'-DDD	0.745	0.688	7.7	92	0.00	7.41- 7.47
17	B	Endosulfan II	0.827	0.745	9.9	91	0.00	7.58- 7.64
18	MA	4,4'-DDT	0.702	0.674	4.0	95	0.00	7.94- 8.00
19	B	Endrin Aldehyde	0.619	0.558	9.9	90	0.00	8.15- 8.21
20	B	Endosulfan Sulfate	0.645	0.594	7.9	93	0.00	8.62- 8.68
21	A	Methoxychlor	0.331	0.321	3.0	96	0.00	9.18- 9.24
22		Mirex	0.507	0.465	8.3	93	0.00	9.51- 9.57
23	B	Endrin Ketone	0.688	0.651	5.4	93	0.00	9.57- 9.63
24	SA	Decachlorobiphenyl	0.498	0.477	4.2	96	0.00	11.13-11.19
25	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	98	0.00	1.95- 2.15
26	L8	Toxaphene{A}		----------NA----------				
27	L8	Toxaphene{B}		----------NA----------				
28	L8	Toxaphene{C}		----------NA----------				
29	L8	Toxaphene{D}		----------NA----------				
30	L8	Toxaphene{E}		----------NA----------				
31	I	1-bromo-2-nitrobenzene	1.000	1.000	0.0	99	0.00	1.95- 2.15
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
4g68901.D 4PST1811.M Wed Jun 08 15:16:45 2016 RPT1

10.10.27 10

GC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/09/16 13:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68955.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:01 pm
Operator : dharas
Sample : jc21229-1
Misc : op94393,g4g1813,15.1,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:33:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.877	2.053	502.0E6	458.4E6	50.000	50.000
25) I	1-bromo-2...	1.877	2.053	502.0E6	458.4E6	50.000	50.000
31) I	1-bromo-2...	1.877	2.053	502.0E6	458.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.438	2.832	290.3E6	251.4E6	33.302	30.031m
Spiked Amount		40.000	Range	30 - 150	Recovery	= 83.25%	75.08%
24) SA	Decachlor...	9.802	11.157	254.3E6	134.4E6	33.698m	29.451m
Spiked Amount		40.000			Recovery	= 84.25%	73.63%

Target Compounds

SemiQuant Compounds - Not Calibrated on this Instrument

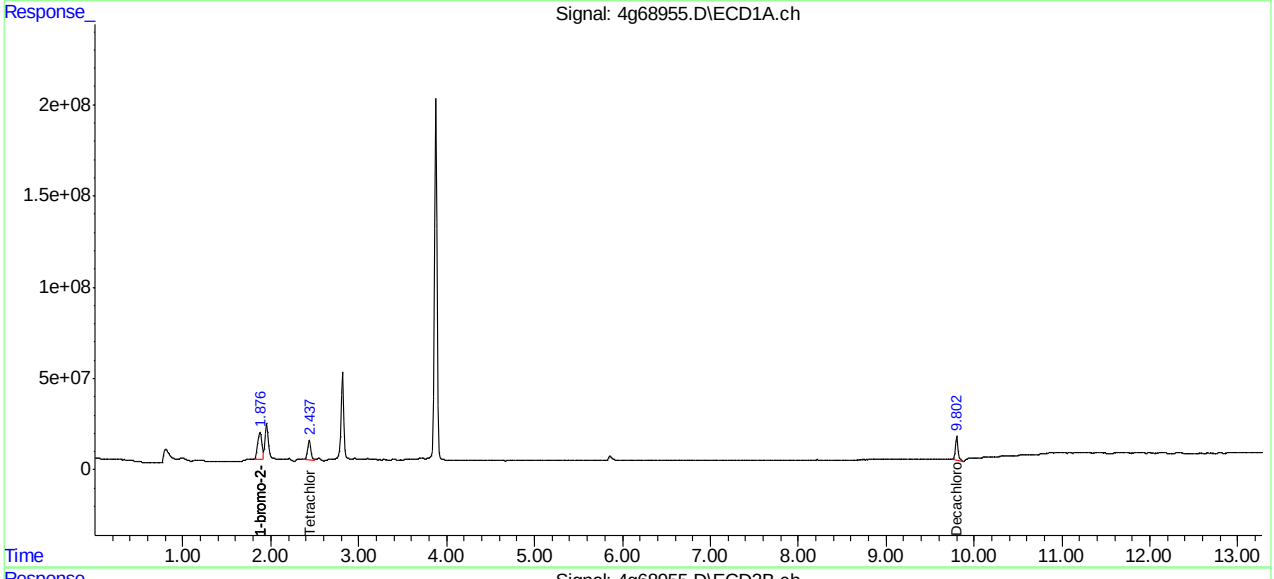
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

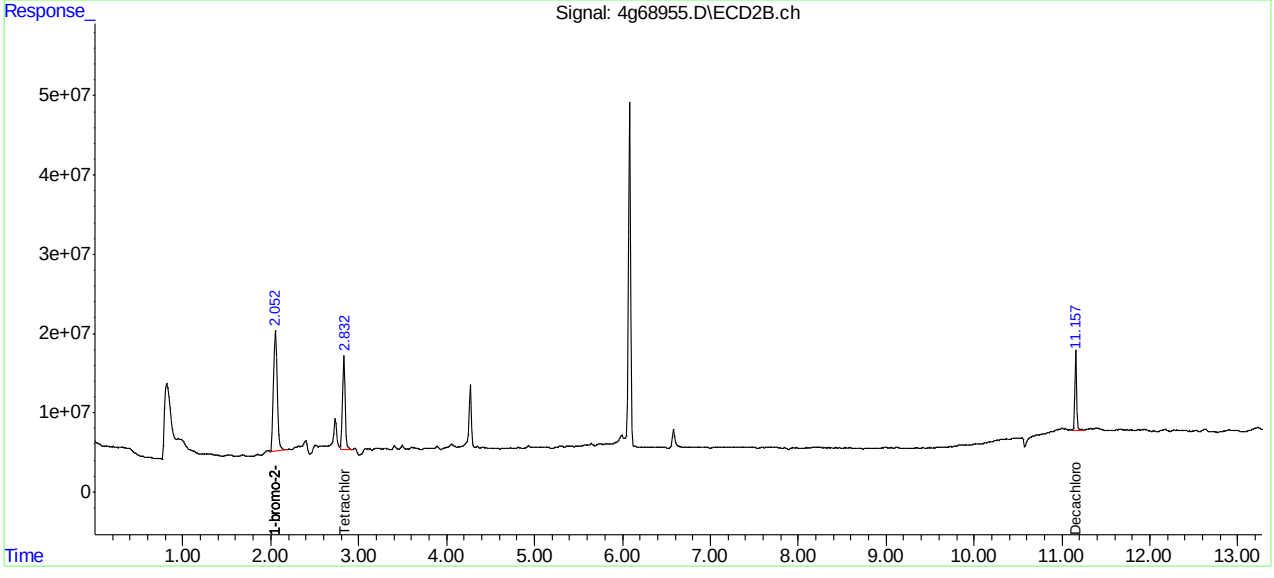
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68955.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:01 pm
Operator : dharas
Sample : jc21229-1
Misc : op94393,g4g1813,15.1,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:33:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	JC21229-1	**Method:**	SW846 8081B
Lab FileID:	4G68955.D	**Analyst approved:**	06/09/16 11:37 Kristen Drake
Injection Time:	06/07/16 14:01	**Supervisor approved:**	06/09/16 13:39 Gwendolyn Burns

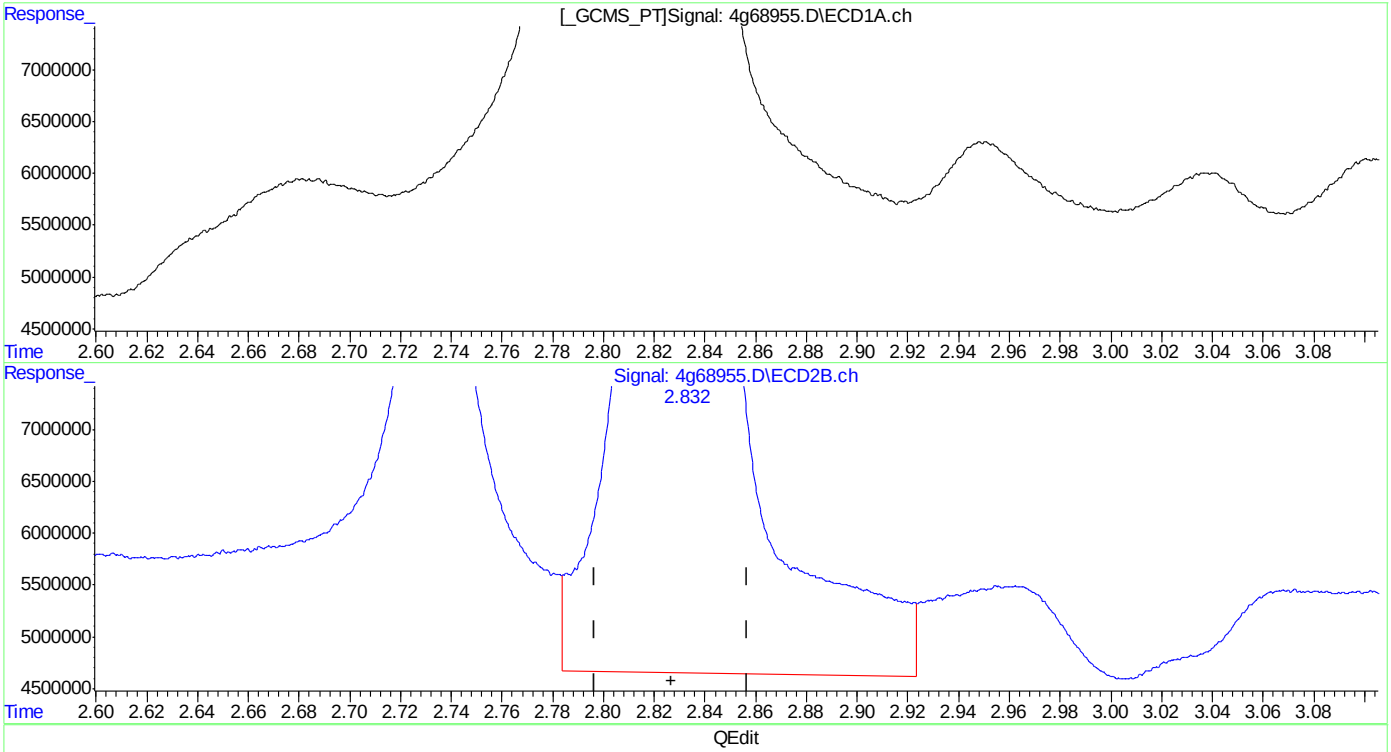
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	2	2.83	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.80	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.16	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68955.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:01 pm
Operator : dharas
Sample : jc21229-1
Misc : op94393,g4g1813,15.1,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.438min 33.302 PPB
response 290280379

(2) Tetrachloro-m-xylene #2 (SAB)
2.832min 37.016 PPB
response 309895489

(+) = Expected Retention Time

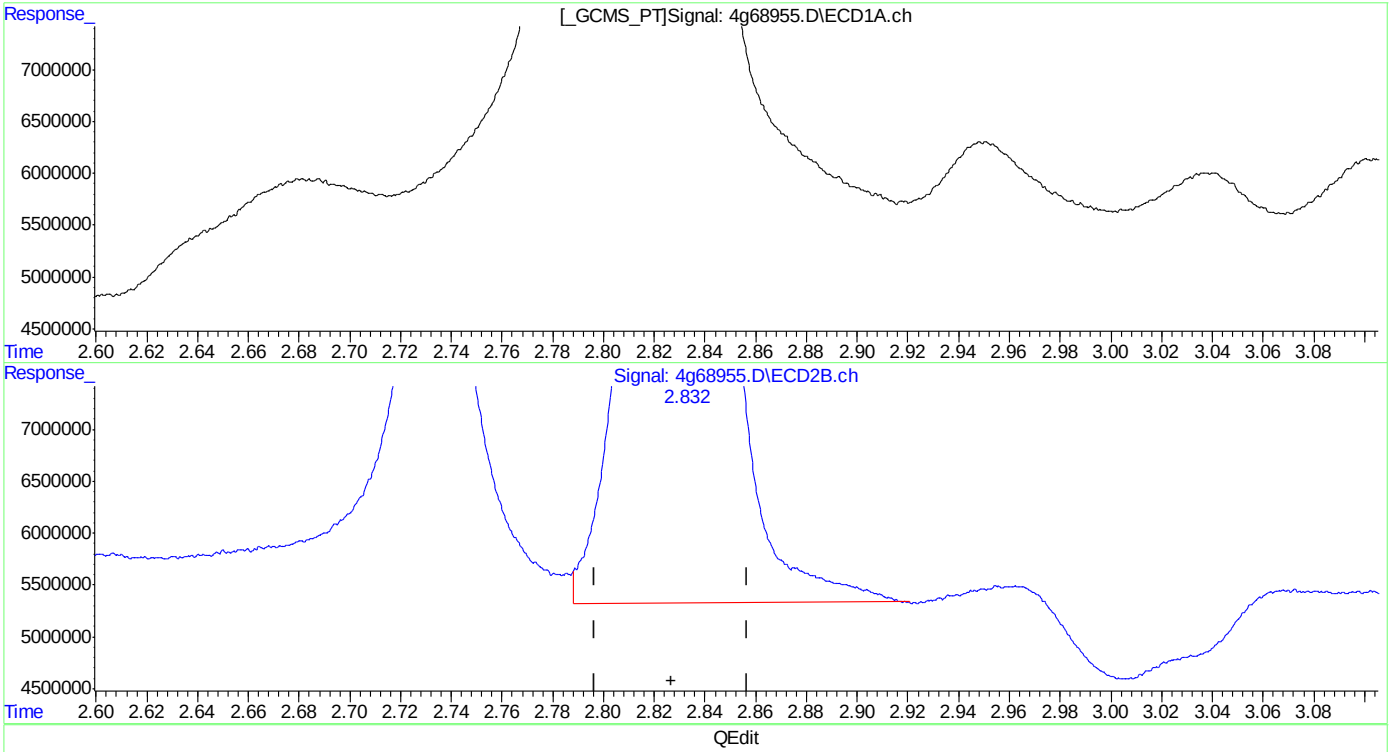
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68955.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:01 pm
Operator : dharas
Sample : jc21229-1
Misc : op94393,g4g1813,15.1,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.438min 33.302 PPB
response 290280379

(2) Tetrachloro-m-xylene #2 (SAB)
2.832min 30.031 PPB m
response 251413478

(+) = Expected Retention Time

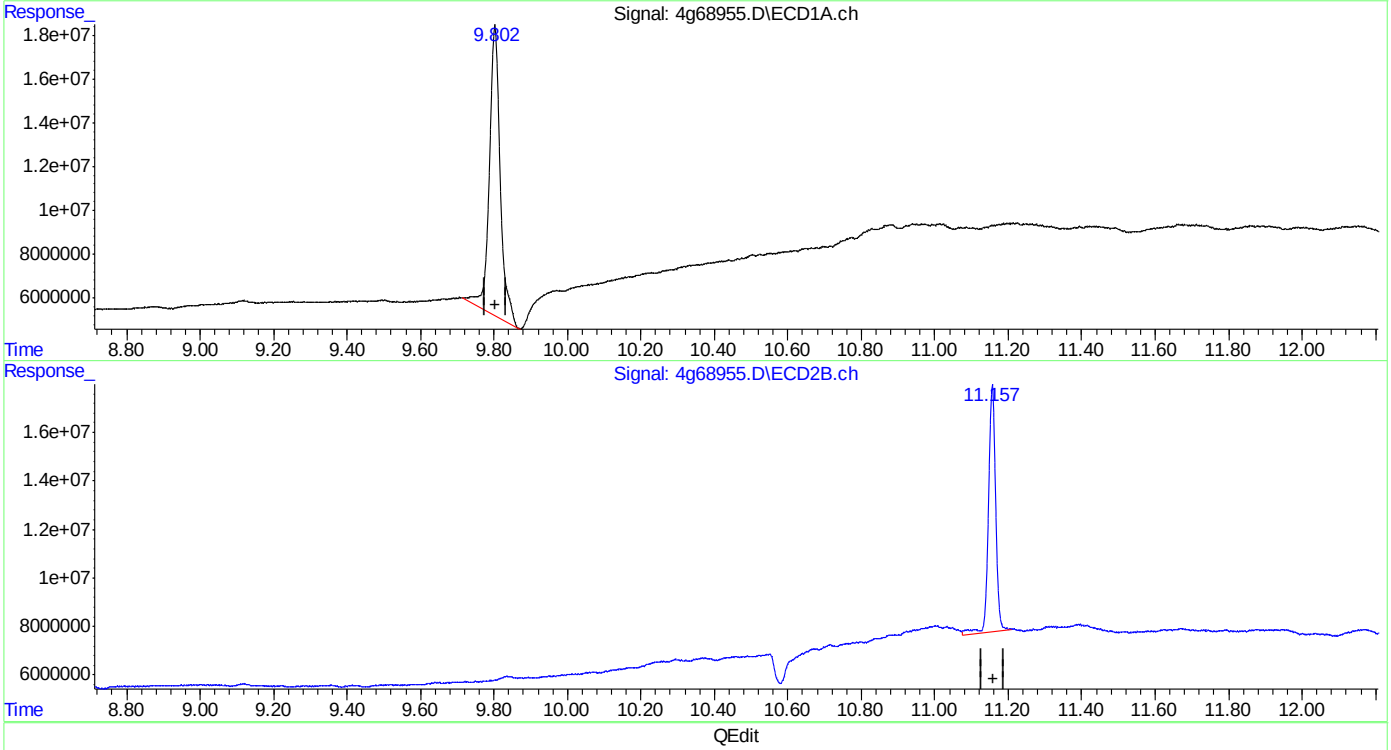
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68955.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:01 pm
Operator : dharas
Sample : jc21229-1
Misc : op94393,g4g1813,15.1,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.803min 36.424 PPB
response 274881412

(24) Decachlorobiphenyl #2 (SA)
11.157min 30.362 PPB
response 138556215

(+) = Expected Retention Time
4PST1811.M Thu Jun 09 11:32:40 2016 RPT1

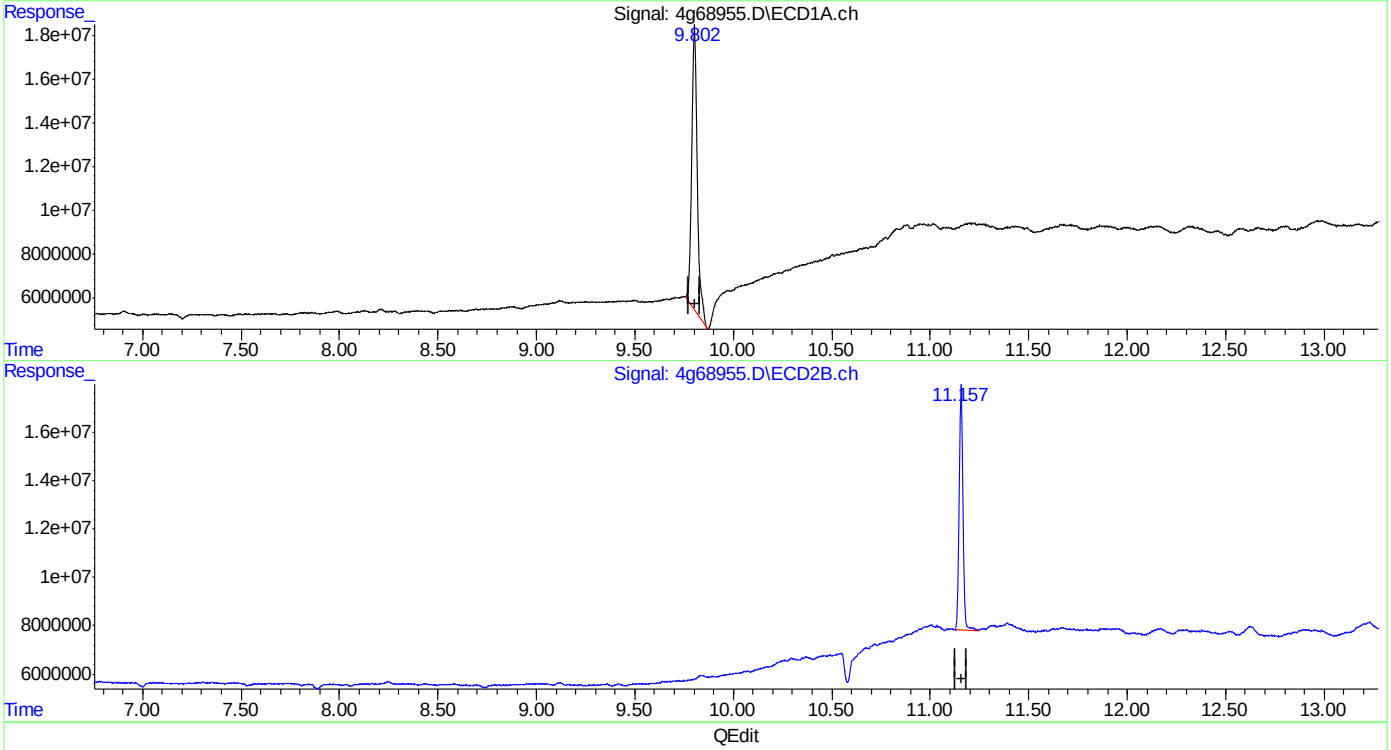
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68955.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:01 pm
Operator : dharas
Sample : jc21229-1
Misc : op94393,g4g1813,15.1,,,10,1
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.802min 33.698 PPB m
response 254310034

(24) Decachlorobiphenyl #2 (SA)
11.157min 29.451 PPB m
response 134396739

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68956.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:16 pm
Operator : dharas
Sample : jc21229-2
Misc : op94393,g4g1813,15.7,,,10,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:34:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.875	2.050	432.1E6	409.1E6	50.000	50.000
25) I	1-bromo-2...	1.875	2.050	432.1E6	409.1E6	50.000	50.000
31) I	1-bromo-2...	1.875	2.050	432.1E6	409.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.439	2.831	259.7E6	232.0E6	34.603	31.057
Spiked Amount		40.000	Range	30 - 150	Recovery	= 86.51%	77.64%
24) SA	Decachlor...	9.802	11.158	254.0E6	144.5E6	39.100	35.475
Spiked Amount		40.000			Recovery	= 97.75%	88.69%
	Target Compounds						
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

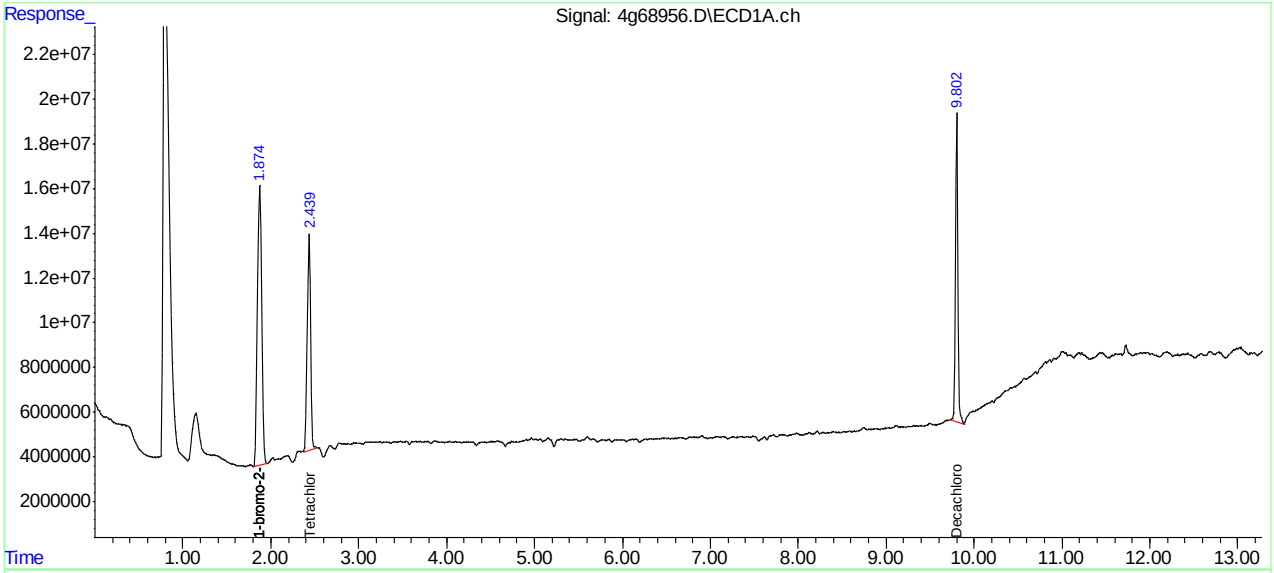
SGS ACCUTEST JC21229

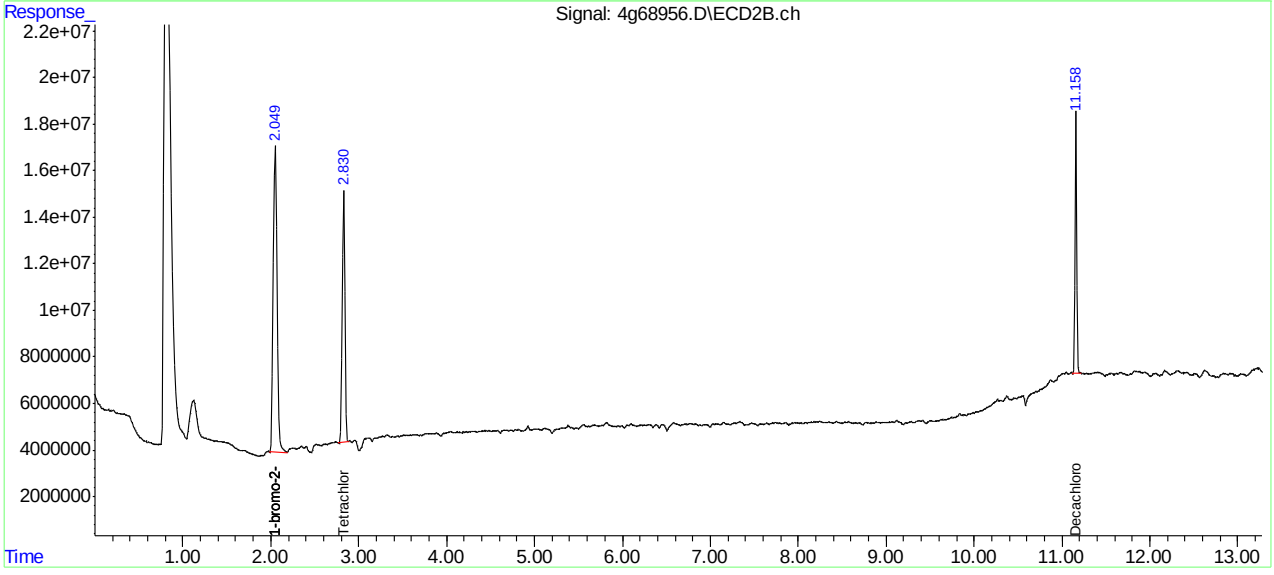
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68956.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 2:16 pm
Operator : dharas
Sample : jc21229-2
Misc : op94393,g4g1813,15.7,,,10,1
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 09 11:34:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123741.D\ECD1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123741.D\ECD2B.CH
Acq On : 6-1-16 02:30:16 PM Operator: kristend
Sample : jc21229-3 Inst : GC1G
Misc : op94349,g1g4001,980,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 14:45 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	154.6E6	1028.5E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.32	1.48	154.6E6	1028.5E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.32	1.48	154.6E6	1028.5E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.92	2.28	131.1E6	854.2E6	46.911	46.688
Spiked Amount 40.000 Range 30 - 150 Recovery =					117.28%	116.72%
24) SA Decachlorobiphen	9.22	10.64	104.4E6	415.4E6	27.473	32.313
Spiked Amount 40.000 Recovery =					68.68%	80.78%
Target Compounds						

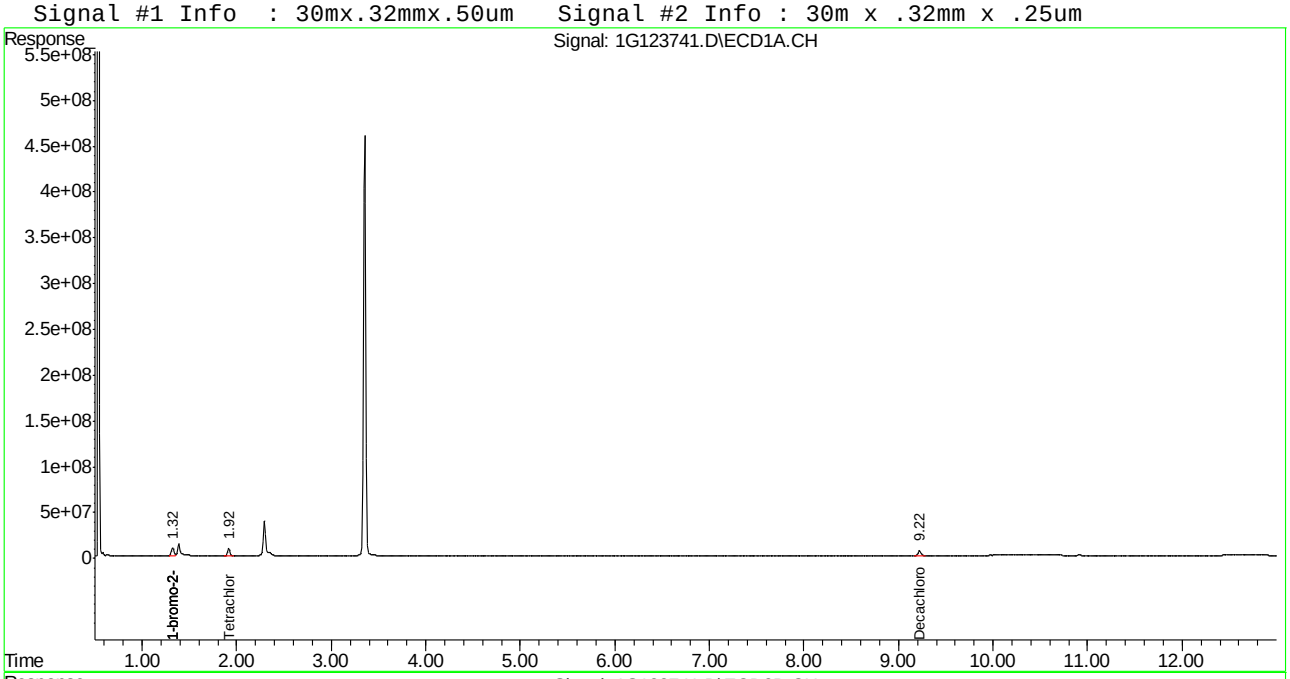
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123741.D 1PST3988.M Wed Jun 01 14:46:02 2016 RPT1 Page 1

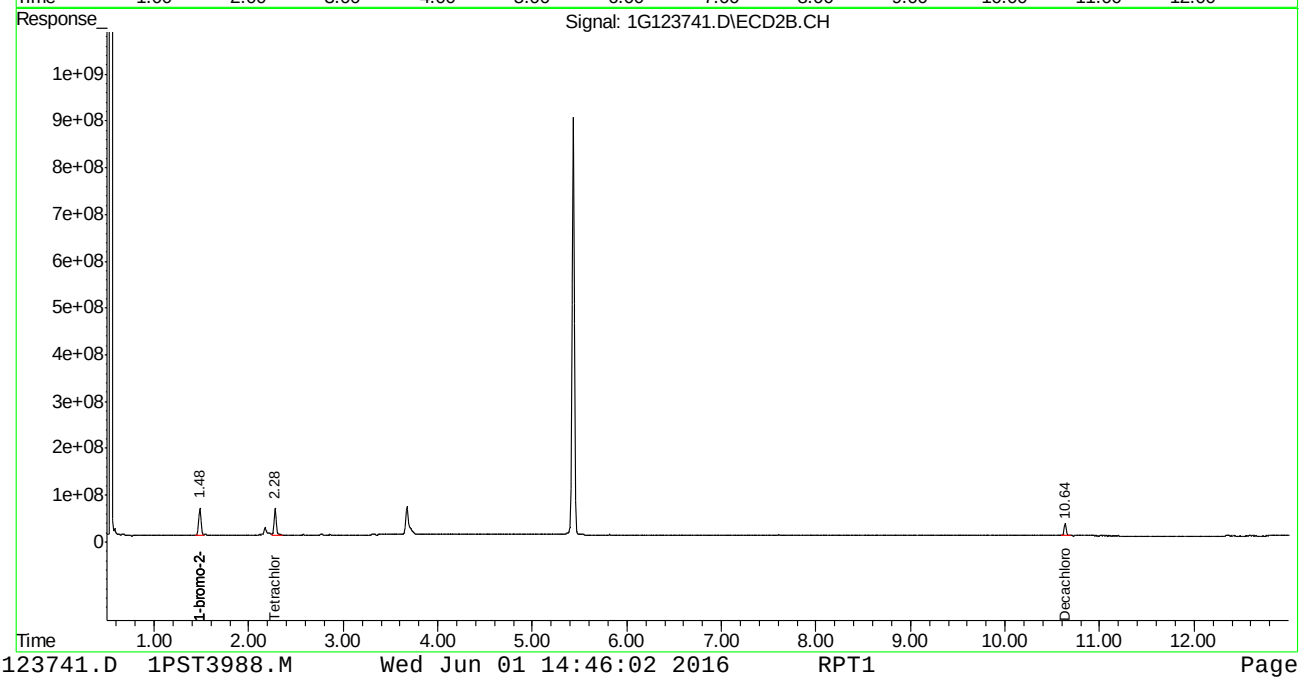
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123741.D\ECD1A.CH Vial: 21
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123741.D\ECD2B.CH
Acq On : 6-1-16 02:30:16 PM Operator: kristend
Sample : jc21229-3 Inst : GC1G
Misc : op94349,g1g4001,980,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 14:45 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G4003\1G123821.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123821.D\ECD2B.CH
Acq On : 03 Jun 2016 11:07 am Operator: kristend
Sample : jc21229-3 Inst : GC1G
Misc : op94431,g1g4003,920,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:58 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	164.1E6	1077.5E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.33	1.50	164.1E6	1077.5E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.33	1.50	164.1E6	1077.5E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.92	2.29	108.0E6	671.9E6	36.413	35.053
Spiked Amount 40.000	Range 30 - 150		Recovery =		91.03%	87.63%
24) SA Decachlorobiphen	9.21	10.66	73449767	278.0E6	18.211	20.643
Spiked Amount 40.000			Recovery =		45.53%	51.61%
Target Compounds						

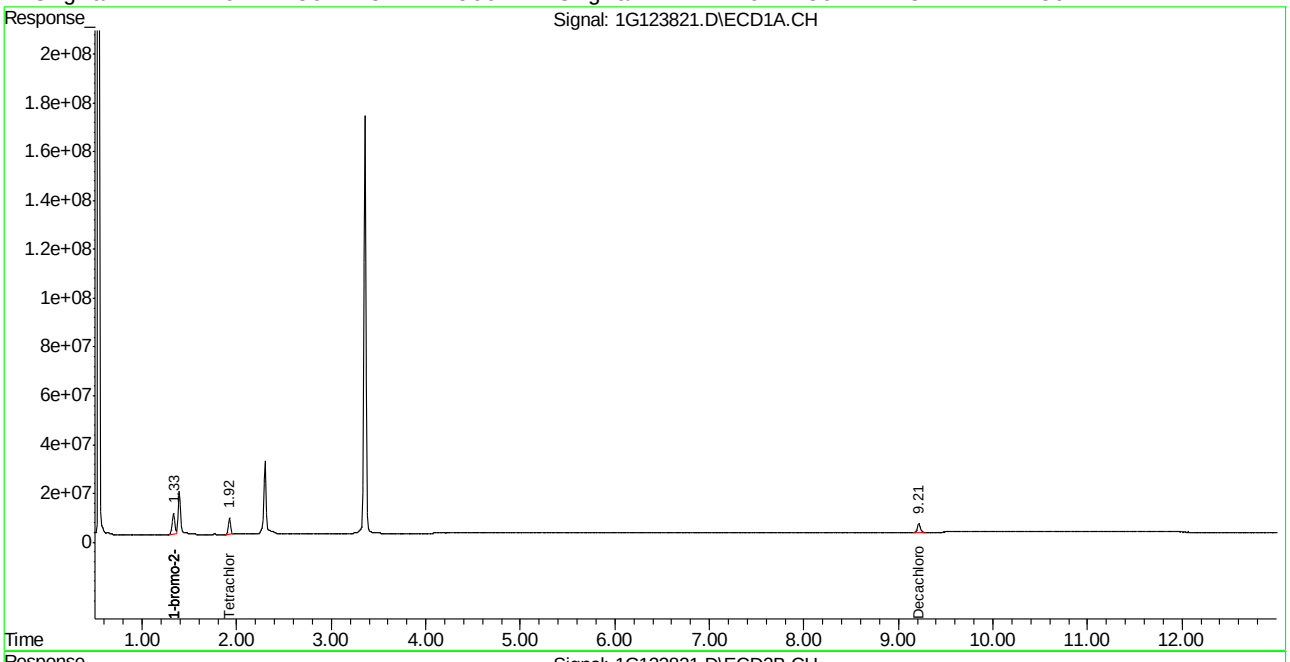
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123821.D 1PST3988.M Fri Jun 03 13:58:43 2016 RPT1 Page 1

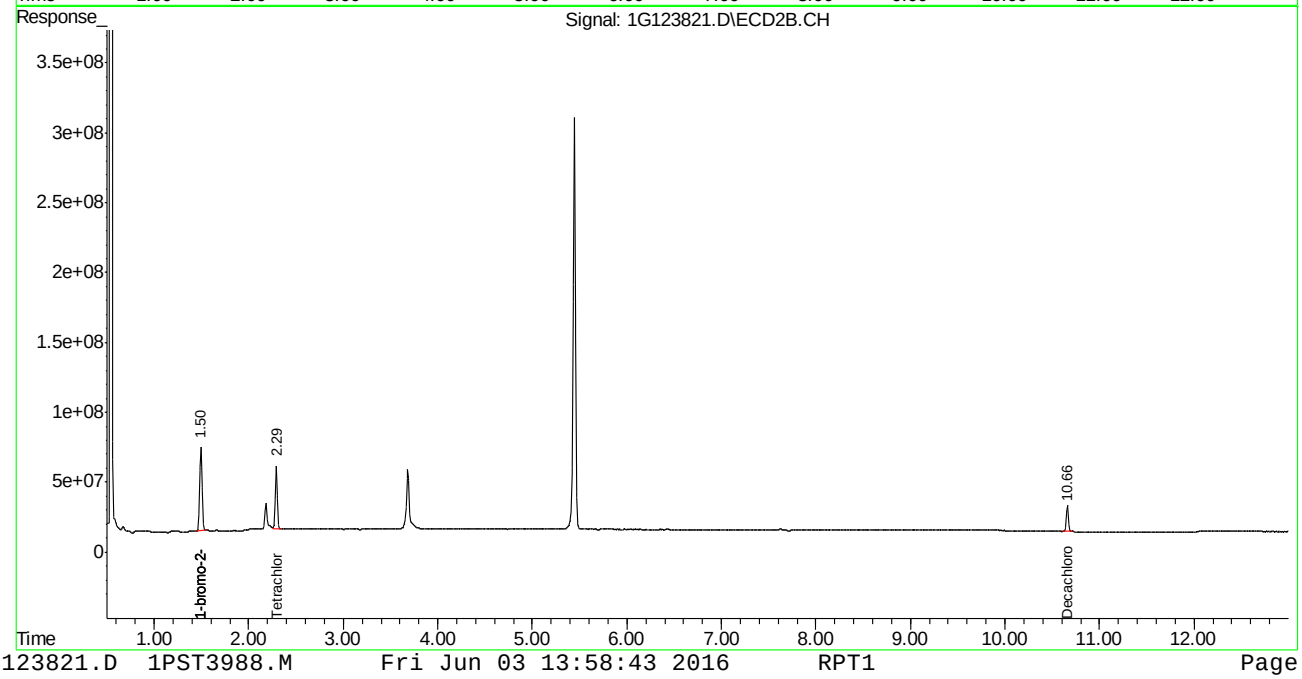
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123821.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123821.D\ECD2B.CH
Acq On : 03 Jun 2016 11:07 am Operator: kristend
Sample : jc21229-3 Inst : GC1G
Misc : op94431,g1g4003,920,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:58 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G4003\1G123826.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123826.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:34 pm                    Operator: kristend
Sample    : jc21229-4                                Inst    : GC1G
Misc      : op94431,g1g4003,890,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:10 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	151.1E6	1039.4E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.33	1.50	151.1E6	1039.4E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.33	1.50	151.1E6	1039.4E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.93	2.29	109.7E6	661.2E6	40.181	35.760
Spiked Amount 40.000	Range 30 - 150		Recovery =		100.45%	89.40%
24) SA Decachlorobiphen	9.22	10.66	74703184	282.0E6	20.123	21.706
Spiked Amount 40.000			Recovery =		50.31%	54.26%
Target Compounds						

(f)=RT Delta > 1/2 Window (m)=manual int.

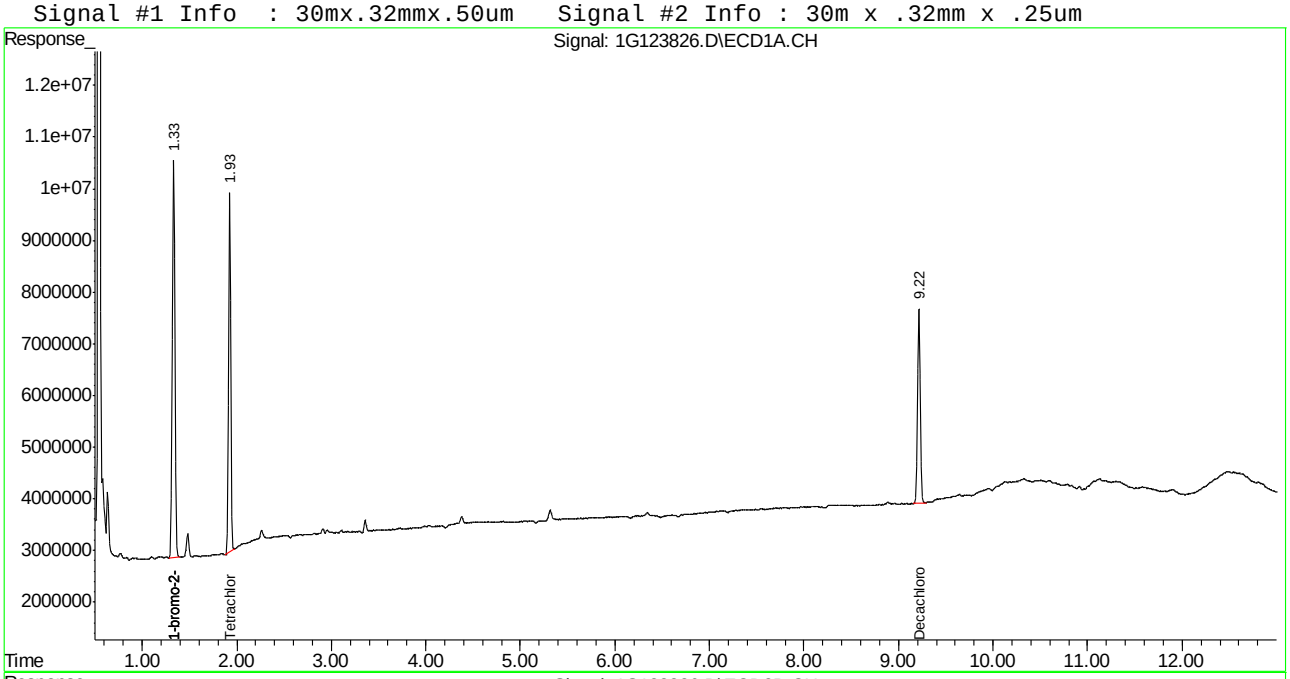
SGS ACCUTEST JC21229

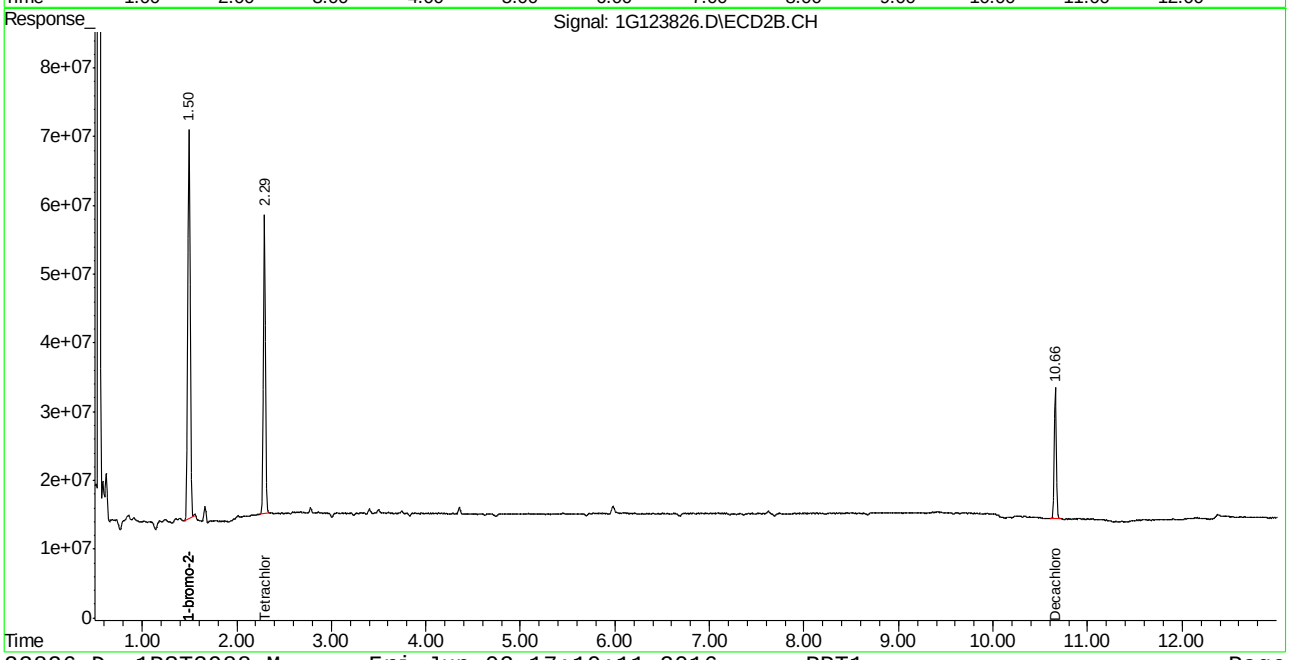
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123826.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123826.D\ECD2B.CH
Acq On : 03 Jun 2016 12:34 pm Operator: kristend
Sample : jc21229-4 Inst : GC1G
Misc : op94431,g1g4003,890,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:10 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 06/07/16 09:35

Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD2B.CH
Acq On    : 6-1-16 06:58:38 PM                        Operator: dharas
Sample    : op94349-mb1                               Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 16:17 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	142.4E6	977.4E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.32	1.48	142.4E6	977.4E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.32	1.48	142.4E6	977.4E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.92	2.28	107.2E6	661.6E6	41.635	38.050
Spiked Amount 40.000	Range 30 - 150		Recovery =		104.09%	95.13%
24) SA Decachlorobiphen	9.23	10.64	174.1E6	639.4E6	49.753	52.340m
Spiked Amount 40.000			Recovery =		124.38%	130.85%
Target Compounds						

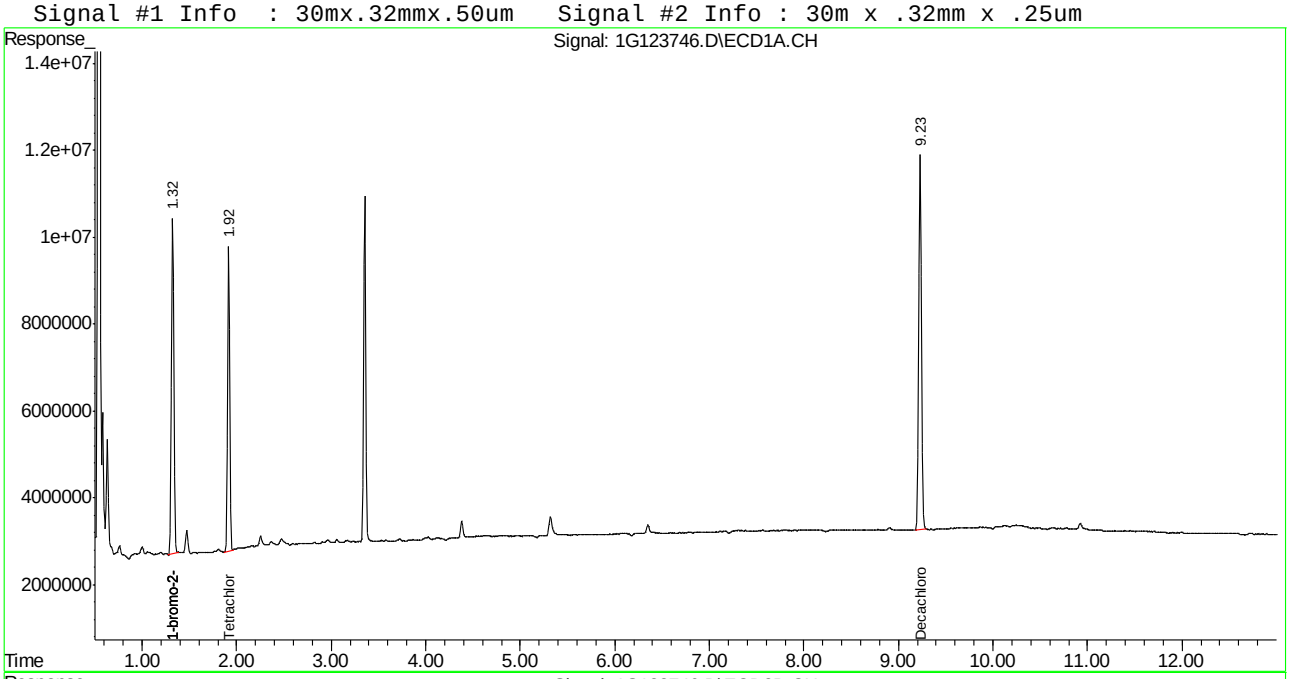
(f)=RT Delta > 1/2 Window (m)=manual int.

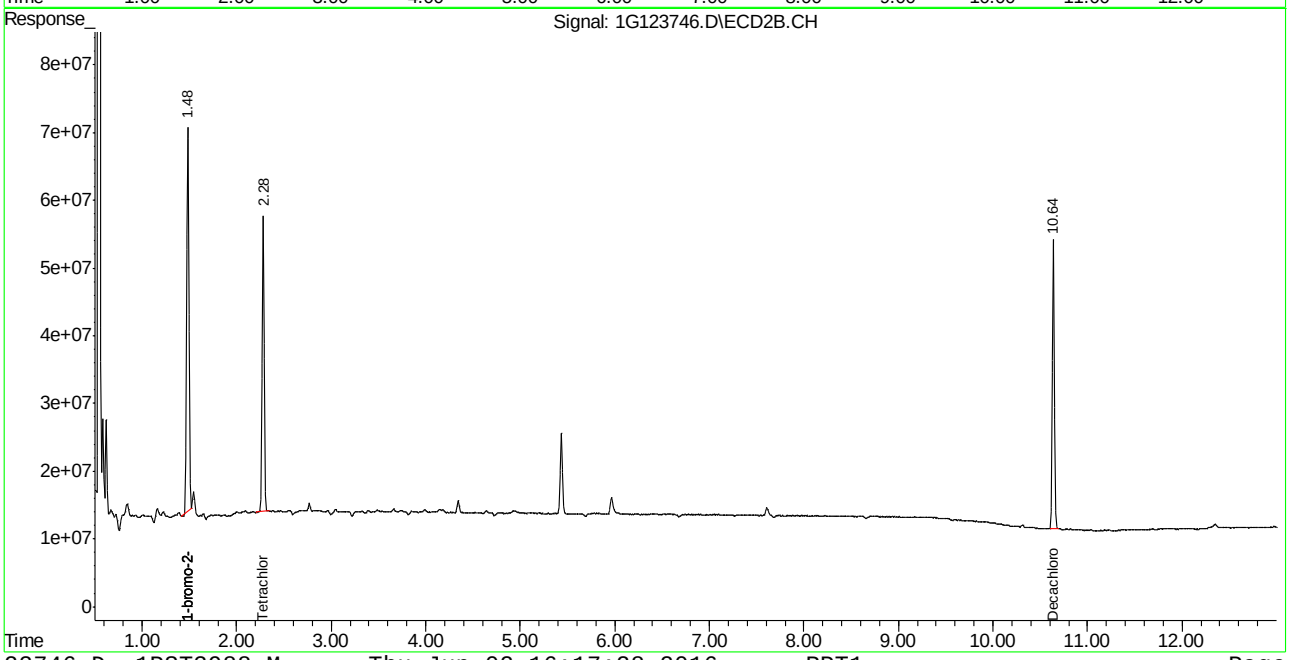
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD2B.CH
Acq On : 6-1-16 06:58:38 PM Operator: dharas
Sample : op94349-mb1 Inst : GC1G
Misc : op94349,g1g4001,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 2 16:17 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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

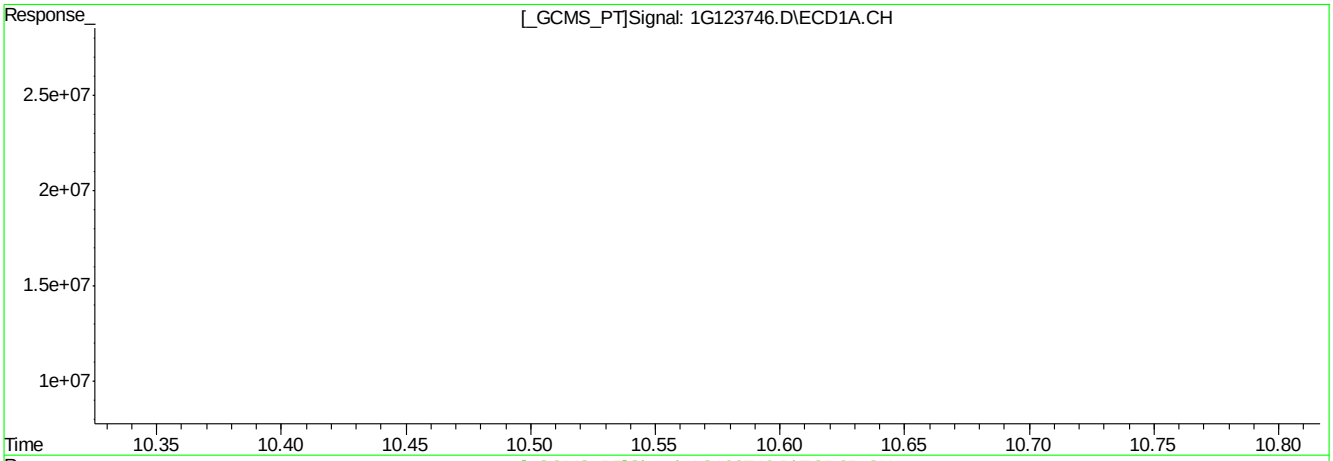
Sample Number:	OP94349-MB1	**Method:**	SW846 8081B
Lab FileID:	1G123746.D	**Analyst approved:**	06/02/16 18:34 Gwendolyn Burns
Injection Time:	06/01/16 18:58	**Supervisor approved:**	06/07/16 09:35 Gwendolyn Burns

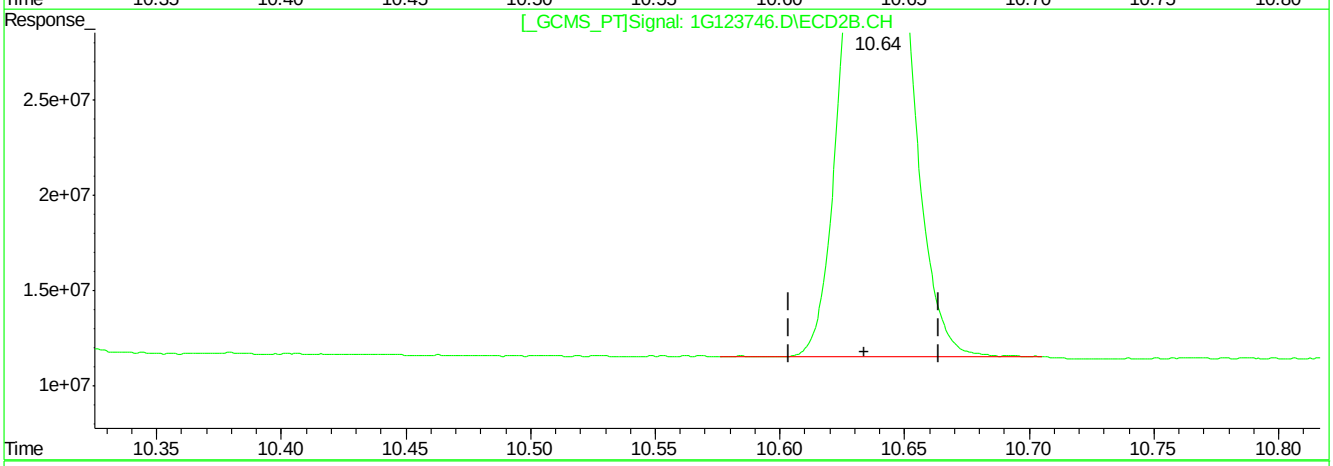
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	10.64	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD2B.CH
Acq On    : 6-1-16 06:58:38 PM                      Operator: dharas
Sample    : op94349-mb1                             Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:39 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.23min 49.753PPB

response 174087644

(24) Decachlorobiphenyl #2 (SA)

10.64min 52.229PPB

response 638040465

(+) = Expected Retention Time

1G123746.D 1PST3988.M Thu Jun 02 16:17:02 2016 RPT1

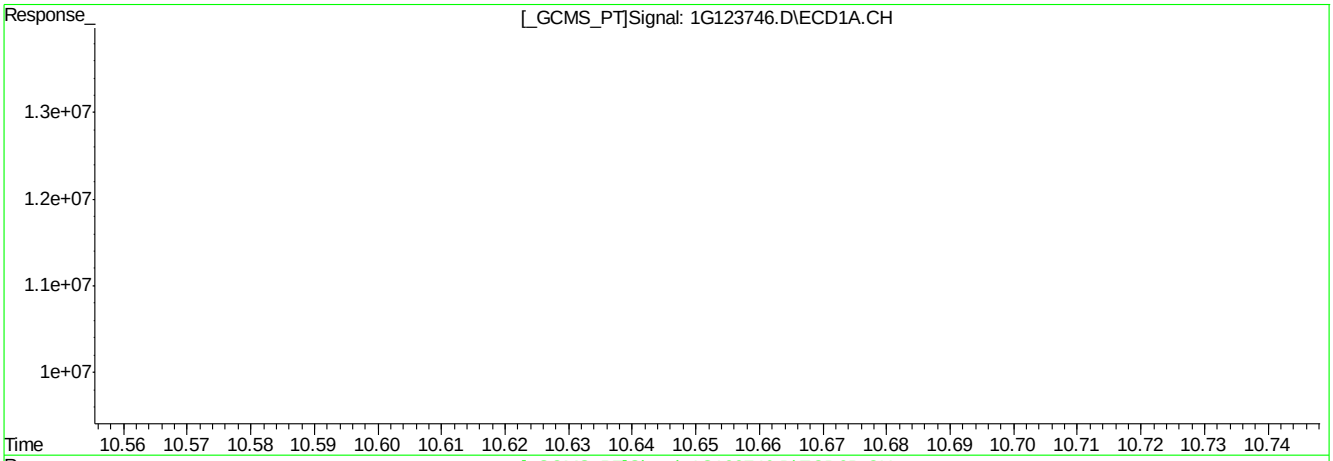
11.2.1.2

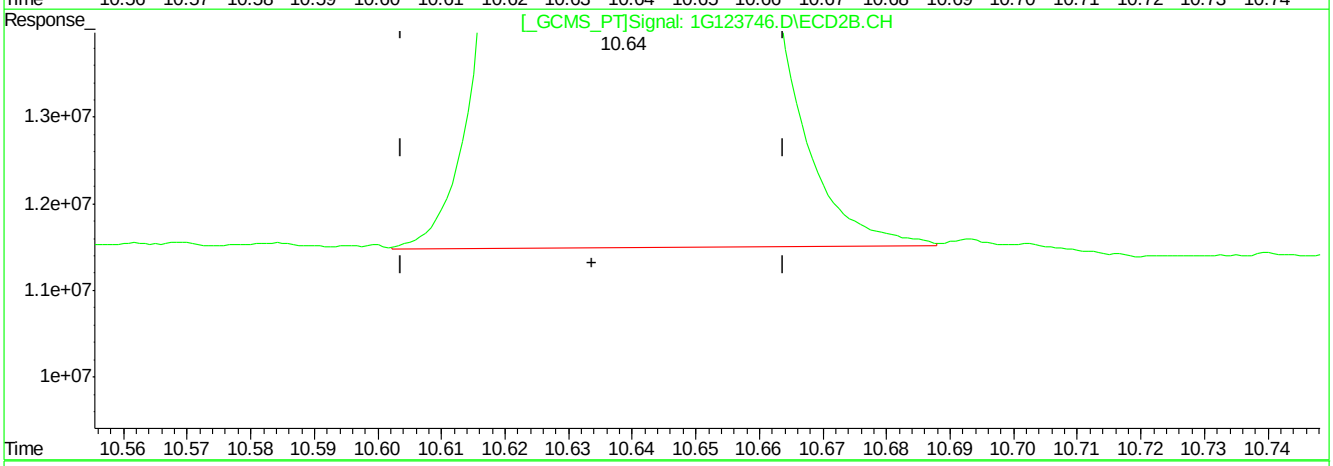
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123746.D\ECD2B.CH
Acq On    : 6-1-16 06:58:38 PM                       Operator: dharas
Sample    : op94349-mb1                              Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:39 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.23min 49.753PPB

response 174087644

(24) Decachlorobiphenyl #2 (SA)

10.64min 52.340PPB m

response 639396127

(+) = Expected Retention Time

1G123746.D 1PST3988.M Thu Jun 02 16:17:16 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/02/16 14:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68825.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:38 pm
Operator : dharas
Sample : op94393-mb1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:12:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.870f	2.047f	390.6E6	356.0E6	50.000	50.000
25) I 1-bromo-2...	1.870	2.047	390.6E6	356.0E6	50.000	50.000
31) I 1-bromo-2...	1.870	2.047	390.6E6	356.0E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.431f	2.829f	218.5E6	203.7E6	32.326m	31.462
Spiked Amount 40.000	Range 30 - 150		Recovery =		80.81%	78.66%
24) SA Decachlor...	9.812f	11.167	271.5E6	124.7E6	46.687	25.868 #
Spiked Amount 40.000			Recovery =		116.72%	64.67%
Target Compounds						
SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

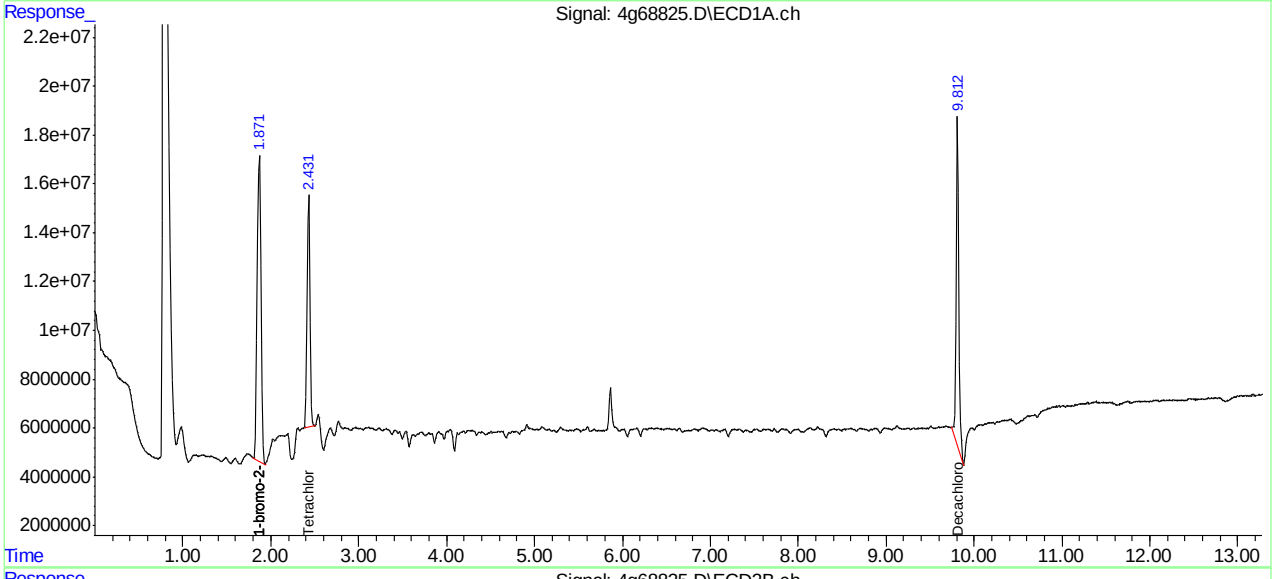
11.2.2 11

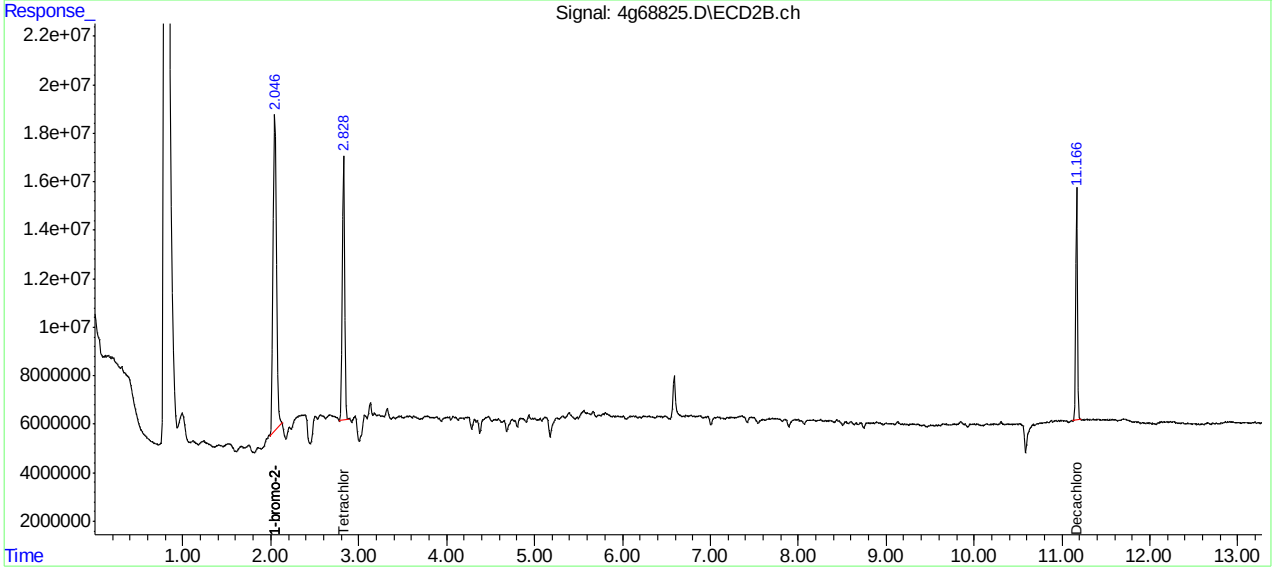
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68825.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:38 pm
Operator : dharas
Sample : op94393-mb1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:12:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	OP94393-MB1	**Method:**	SW846 8081B
Lab FileID:	4G68825.D	**Analyst approved:**	06/02/16 14:42 Kristen Drake
Injection Time:	06/02/16 12:38	**Supervisor approved:**	06/02/16 14:45 Gwendolyn Burns

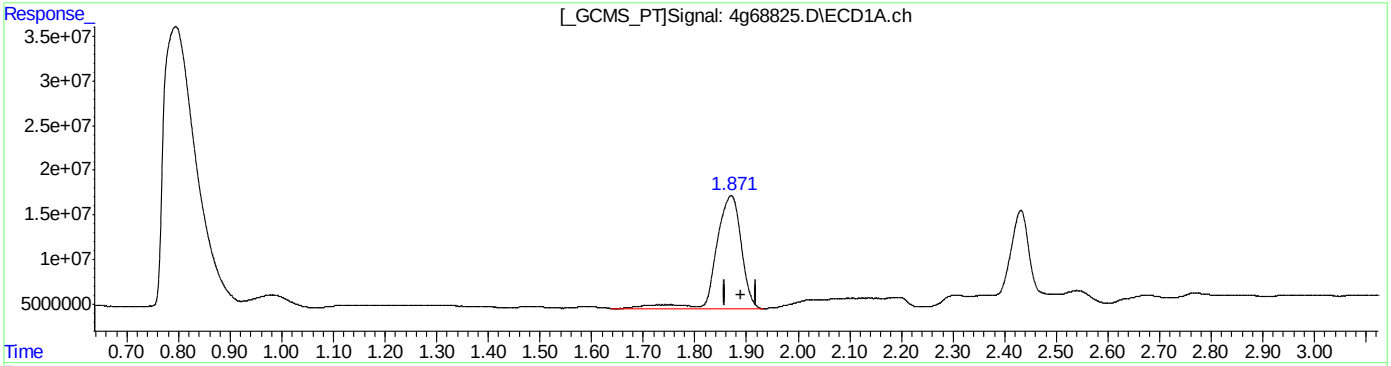
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.43	Poor instrument integration

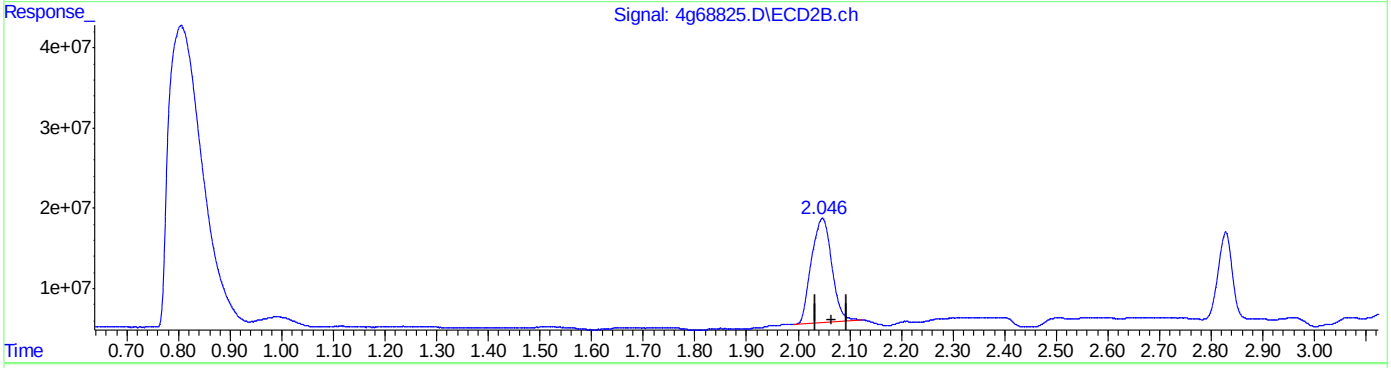
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68825.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:38 pm
Operator : dharas
Sample : op94393-mb1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:07:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(1) 1-bromo-2-nitrobenzene (I)
1.870min 50.000 PPB
response 425726371

(1) 1-bromo-2-nitrobenzene #2 (I)
2.047min 50.000 PPB
response 355991515

(+) = Expected Retention Time

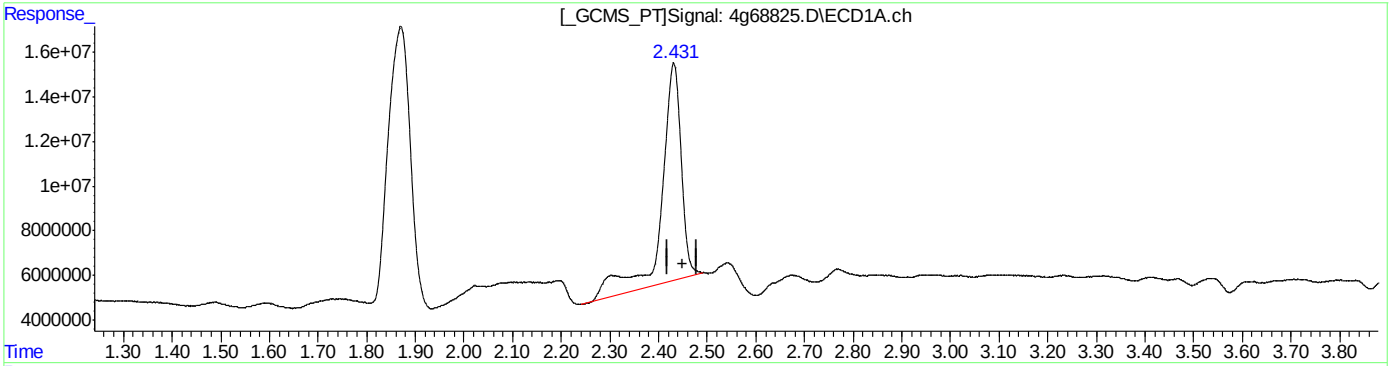
SGS ACCUTEST JC21229

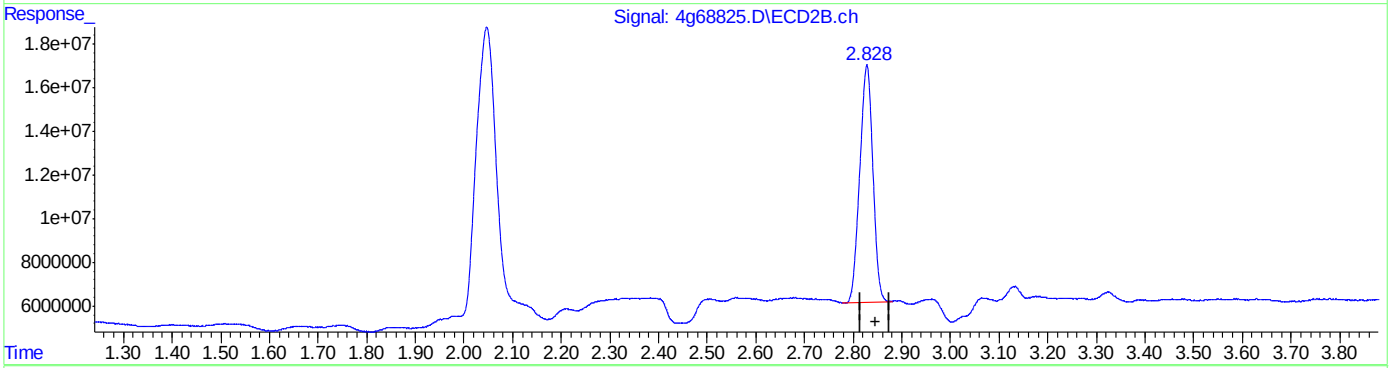
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68825.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:38 pm
Operator : dharas
Sample : op94393-mb1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:11:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.431min 40.869 PPB
response 276307853

(2) Tetrachloro-m-xylene #2 (SAB)
2.829min 31.462 PPB
response 203672987

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 14:11:40 2016 RPT1

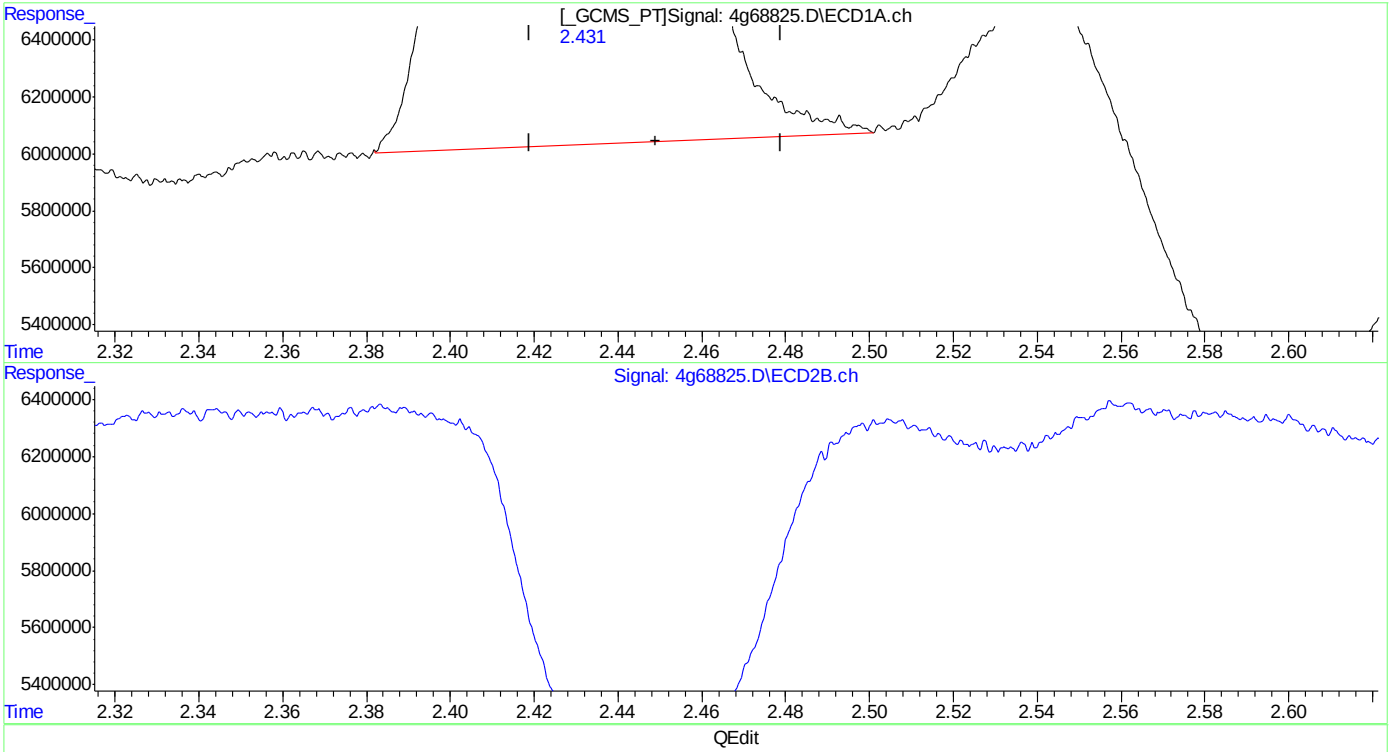
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68825.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:38 pm
Operator : dharas
Sample : op94393-mb1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:11:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.431min 32.326 PPB m
response 218549389

(2) Tetrachloro-m-xylene #2 (SAB)
2.829min 31.462 PPB
response 203672987

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 14:11:54 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD2B.CH
Acq On : 03 Jun 2016 10:32 am Operator: kristend
Sample : op94431-mb1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	144.5E6	975.7E6	50.000	50.000
25) I 1-bromo-2-nitrob	1.33	1.50	144.5E6	975.7E6	50.000	50.000
31) I 1-bromo-2-nitrob	1.33	1.50	144.5E6	975.7E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachloro-m-xy	1.92	2.29	100.0E6	602.5E6	38.311	34.713
Spiked Amount 40.000 Range 30 - 150 Recovery =					95.78%	86.78%
24) SA Decachlorobiphen	9.22	10.66	123.1E6	447.4E6	34.676	36.690
Spiked Amount 40.000 Recovery =					86.69%	91.72%
Target Compounds						

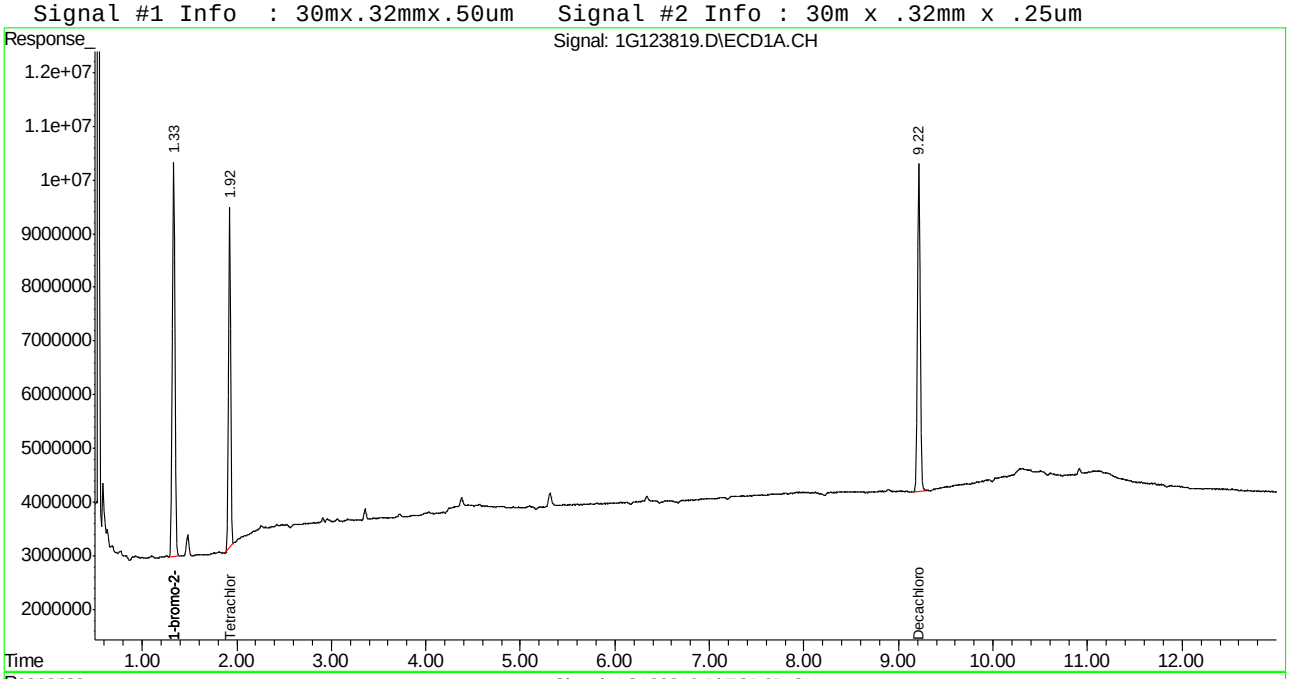
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123819.D 1PST3988.M Fri Jun 03 13:57:01 2016 RPT1 Page 1

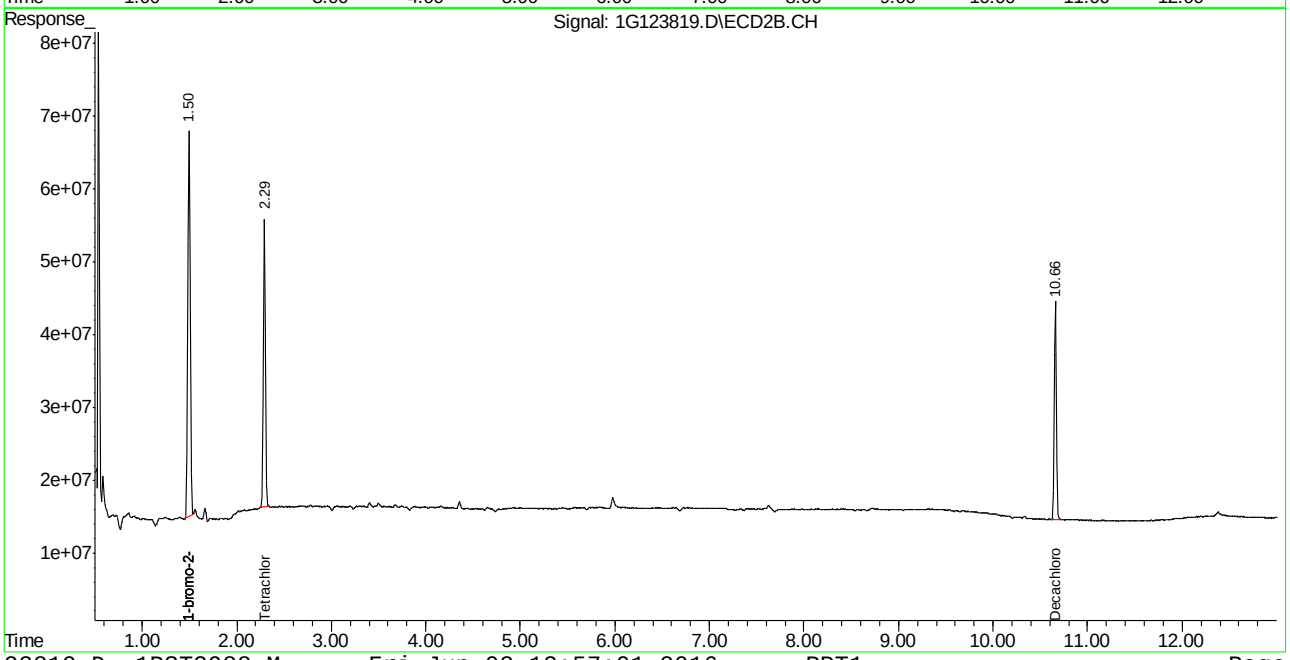
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123819.D\ECD2B.CH
Acq On : 03 Jun 2016 10:32 am Operator: kristend
Sample : op94431-mb1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/01/16 13:41

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD2B.CH
Acq On : 31 May 2016 12:03 pm Operator: dharas
Sample : op94349-bs1 Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	181.6E6	1112.3E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	181.6E6	1112.3E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	181.6E6	1112.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.28	154.3E6	906.7E6	47.012	45.821
Spiked Amount	40.000	Range	30 - 150	Recovery	=	117.53%	114.55%
24) SA	Decachlorobiphen	9.21	10.63	187.9E6	730.1E6	42.113	52.516
Spiked Amount	40.000			Recovery	=	105.28%	131.29%
	Target Compounds						
3) A	alpha-BHC	2.40	2.92	145.9E6	886.4E6	31.095	29.920
4) MA	gamma-BHC	2.70	3.33	133.8E6	806.3E6	30.499	30.067
5) MA	Heptachlor	3.18	3.88	133.8E6	752.0E6	29.970	30.046
6) B	beta-BHC	2.77	3.41	60492426	354.1E6	28.823	28.799
7) B	delta-BHC	2.96	3.79	118.3E6	741.4E6	27.516	27.655
8) MB	Aldrin	3.51	4.31	130.8E6	741.5E6	32.141	32.375
9) B	Heptachlor Epoxi	4.23	5.11	123.7E6	690.9E6	30.852	33.722
10) B	gamma-Chlordane	4.38	5.38	126.5E6	679.2E6	30.661	32.450
11) B	alpha-Chlordane	4.55	5.60	121.3E6	649.7E6	29.648	31.348
12) A	Endosulfan I	4.73	5.69	117.3E6	624.7E6	29.797	32.682
13) B	4,4'-DDE	4.66	5.87	126.0E6	677.6E6	30.540	32.959
14) MA	Dieldrin	5.05	6.12	126.4E6	716.1E6	30.823	33.365
15) MA	Endrin	5.37	6.61	122.2E6	655.4E6	32.881	34.700
16) A	4,4'-DDD	5.49	6.80	97990348	564.6E6	30.236	33.350
17) B	Endosulfan II	5.70	6.95	113.0E6	606.9E6	29.024	31.392
18) MA	4,4'-DDT	5.91	7.32	102.9E6	536.7E6	29.136	32.303
19) B	Endrin Aldehyde	6.33	7.52	92046503	461.7E6	29.917	31.121
20) B	Endosulfan Sulfa	7.01	7.98	89774797	501.3E6	24.007	29.631
21) A	Methoxychlor	6.68	8.55	57412708	297.8E6	27.461	33.383m
23) B	Endrin Ketone	7.44	8.92	95900007	487.3E6	22.665	25.697

(f)=RT Delta > 1/2 Window (m)=manual int.

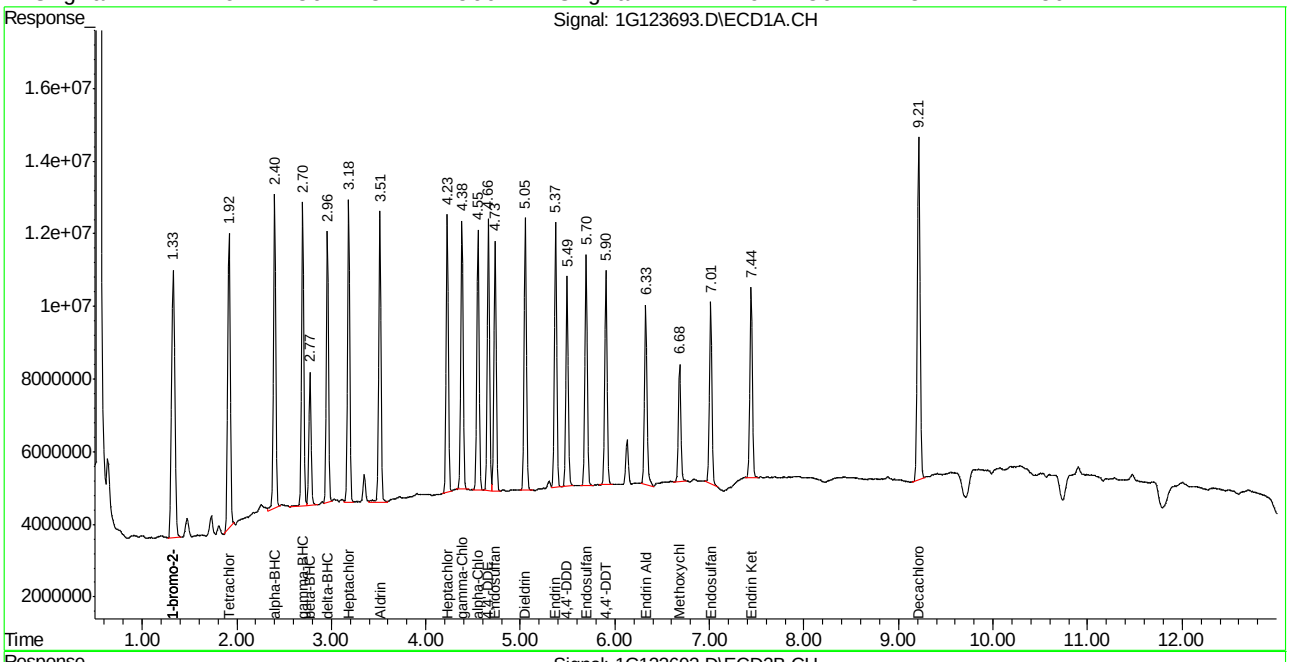
SGS ACCUTEST JC21229

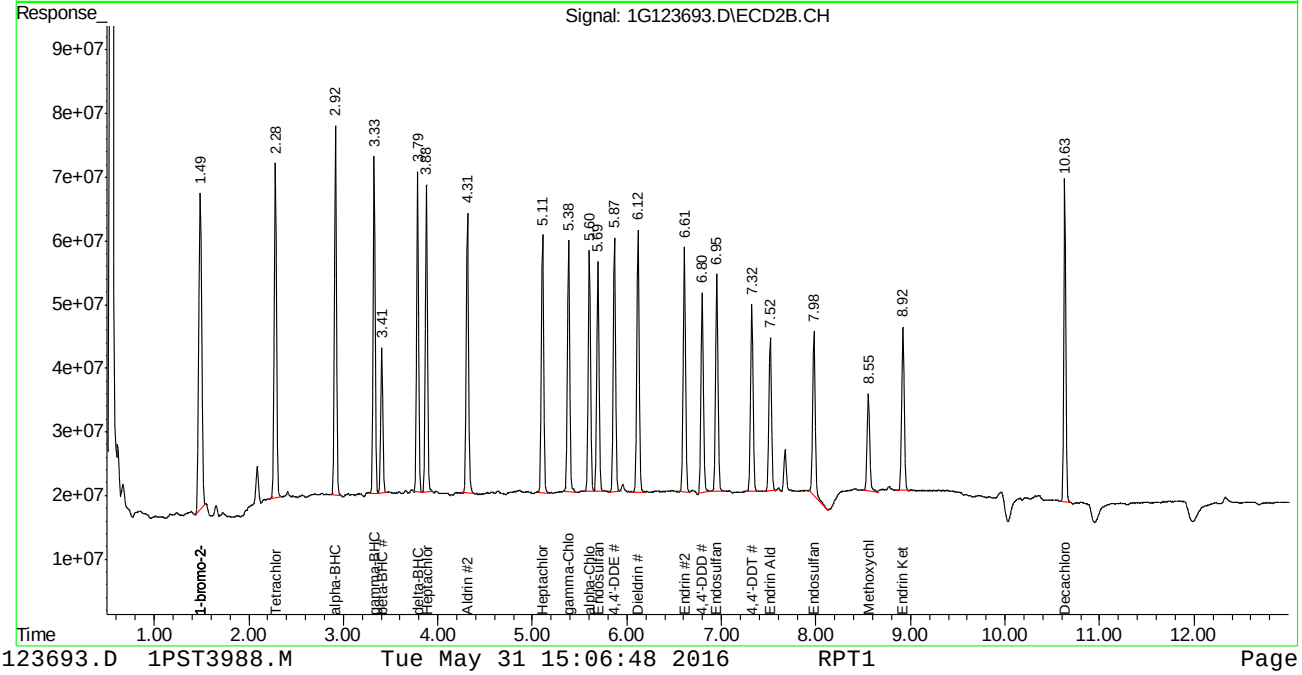
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD2B.CH
Acq On : 31 May 2016 12:03 pm Operator: dharas
Sample : op94349-bs1 Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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

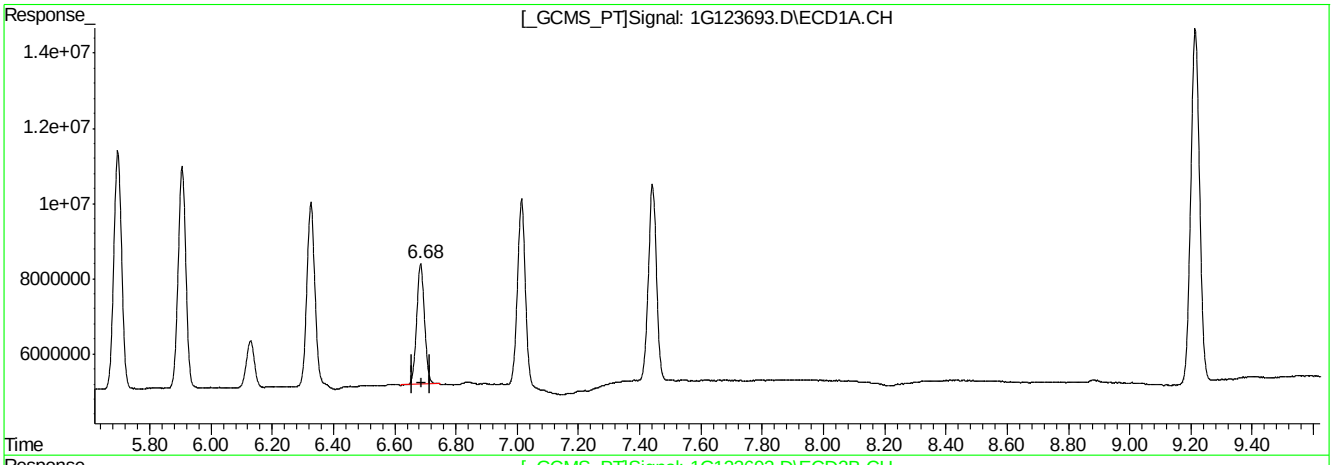
Sample Number:	OP94349-BS1	**Method:**	SW846 8081B
Lab FileID:	1G123693.D	**Analyst approved:**	05/31/16 16:53 Kristen Drake
Injection Time:	05/31/16 12:03	**Supervisor approved:**	06/01/16 13:41 Gwendolyn Burns

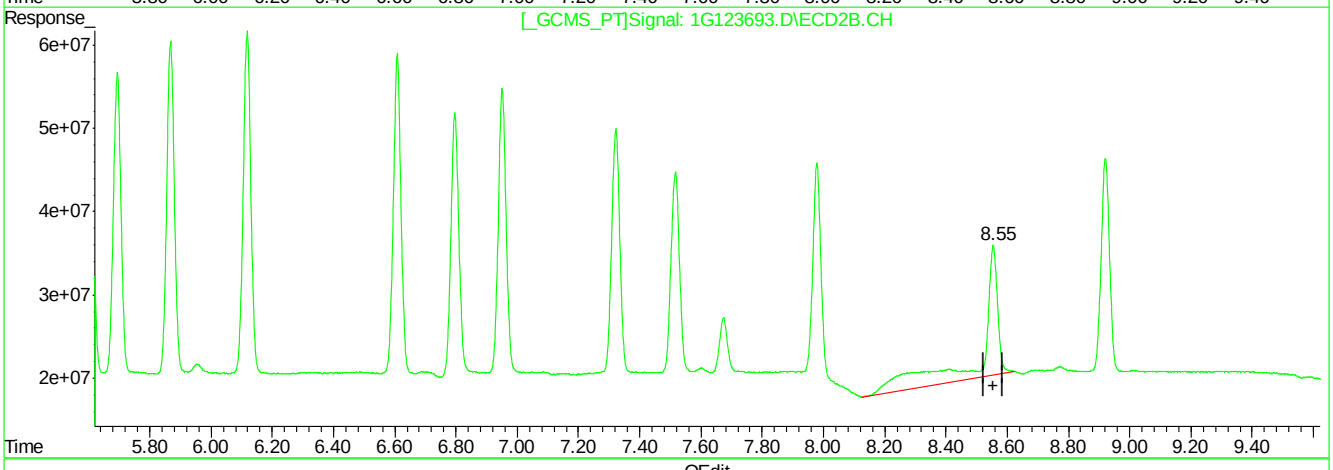
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	2	8.55	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD2B.CH
Acq On    : 31 May 2016  12:03 pm                    Operator: dharas
Sample    : op94349-bs1                              Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 15:01 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.68min 27.461PPB

response 57412708

(21) Methoxychlor #2 (A)

8.55min 67.447PPB

response 601739521

(+) = Expected Retention Time

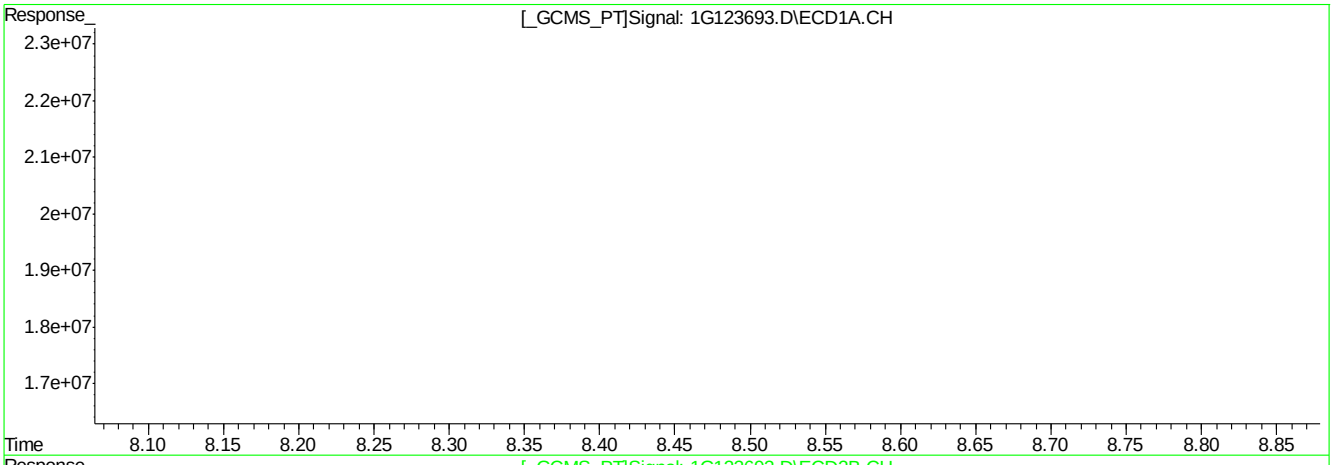
1G123693.D 1PST3988.M Tue May 31 15:01:55 2016 RPT1

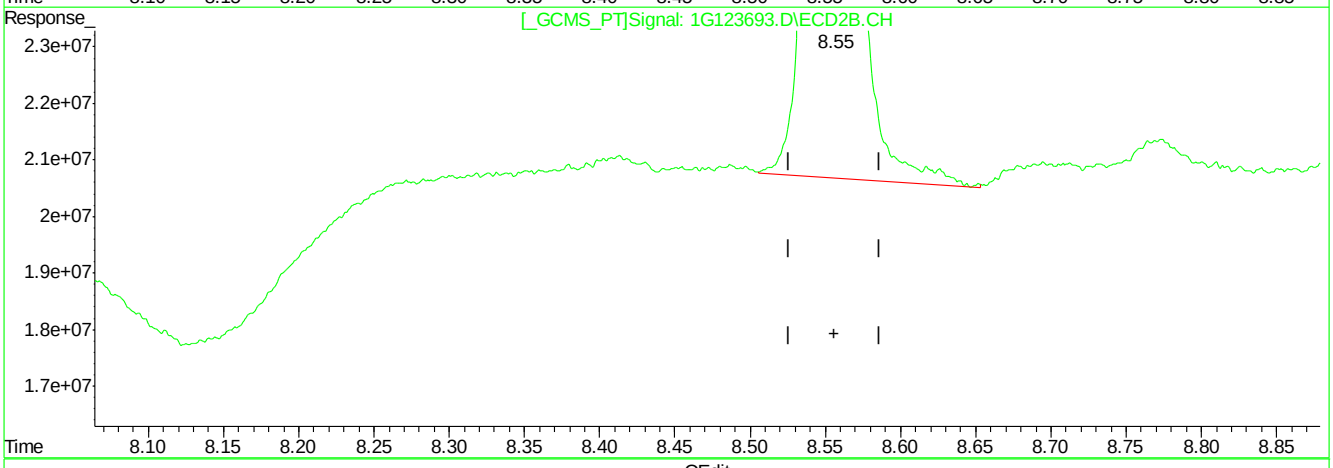
11.3.1.2 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123693.D\ECD2B.CH
Acq On    : 31 May 2016  12:03 pm                    Operator: dharas
Sample    : op94349-bs1                              Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 15:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.68min 27.461PPB

response 57412708

(21) Methoxychlor #2 (A)

8.55min 33.383PPB m

response 297828047

(+) = Expected Retention Time

1G123693.D 1PST3988.M Tue May 31 15:02:00 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123710.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123710.D\ECD2B.CH
Acq On : 5-31-16 07:58:22 PM Operator: dharas
Sample : op94349-bsd Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 15:30 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	140.2E6	930.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	140.2E6	930.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	140.2E6	930.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.91	2.28	80110699	521.8E6	31.625	31.534
Spiked Amount	40.000	Range	30 - 150	Recovery	=	79.06%	78.83%
24) SA	Decachlorobiphen	9.21	10.63	114.3E6	432.9E6	33.177	37.242
Spiked Amount	40.000			Recovery	=	82.94%	93.10%
	Target Compounds						
3) A	alpha-BHC	2.40	2.92	91715896	652.1E6	25.315	26.322
4) MA	gamma-BHC	2.69	3.33	88141600	586.9E6	26.034	26.173
5) MA	Heptachlor	3.18	3.88	79536965	497.9E6	23.080	23.789
6) B	beta-BHC	2.77	3.41	40583026	265.9E6	25.048	25.867
7) B	delta-BHC	2.96	3.79	85508088	587.7E6	25.759	26.218
8) MB	Aldrin	3.51	4.31	67223192	450.9E6	21.403	23.546
9) B	Heptachlor Epoxi	4.23	5.11	83371212	508.9E6	26.934	29.703
10) B	gamma-Chlordane	4.38	5.38	81154692	491.2E6	25.474	28.068
11) B	alpha-Chlordane	4.55	5.60	80602749	483.0E6	25.509	27.868
12) A	Endosulfan I	4.73	5.69	79398714	466.6E6	26.119	29.195
13) B	4,4'-DDE	4.66	5.87	78961678	474.8E6	24.788	27.618
14) MA	Dieldrin	5.05	6.12	84726695	522.3E6	26.767	29.102
15) MA	Endrin	5.37	6.61	82482540	497.8E6	28.747	31.518
16) A	4,4'-DDD	5.49	6.80	64906673	435.7E6	25.942	30.777
17) B	Endosulfan II	5.70	6.95	78109016	454.2E6	25.977	28.094
18) MA	4,4'-DDT	5.90	7.32	68948217	395.7E6	25.299	28.484
19) B	Endrin Aldehyde	6.33	7.52	63033807	364.4E6	26.538	29.372
20) B	Endosulfan Sulfa	7.01	7.98	70976391	402.7E6	24.586	28.466
21) A	Methoxychlor	6.69	8.56	41216320	214.7E6	25.536	28.781
23) B	Endrin Ketone	7.44	8.92	85733126	466.4E6	26.246	29.409

(f)=RT Delta > 1/2 Window (m)=manual int.

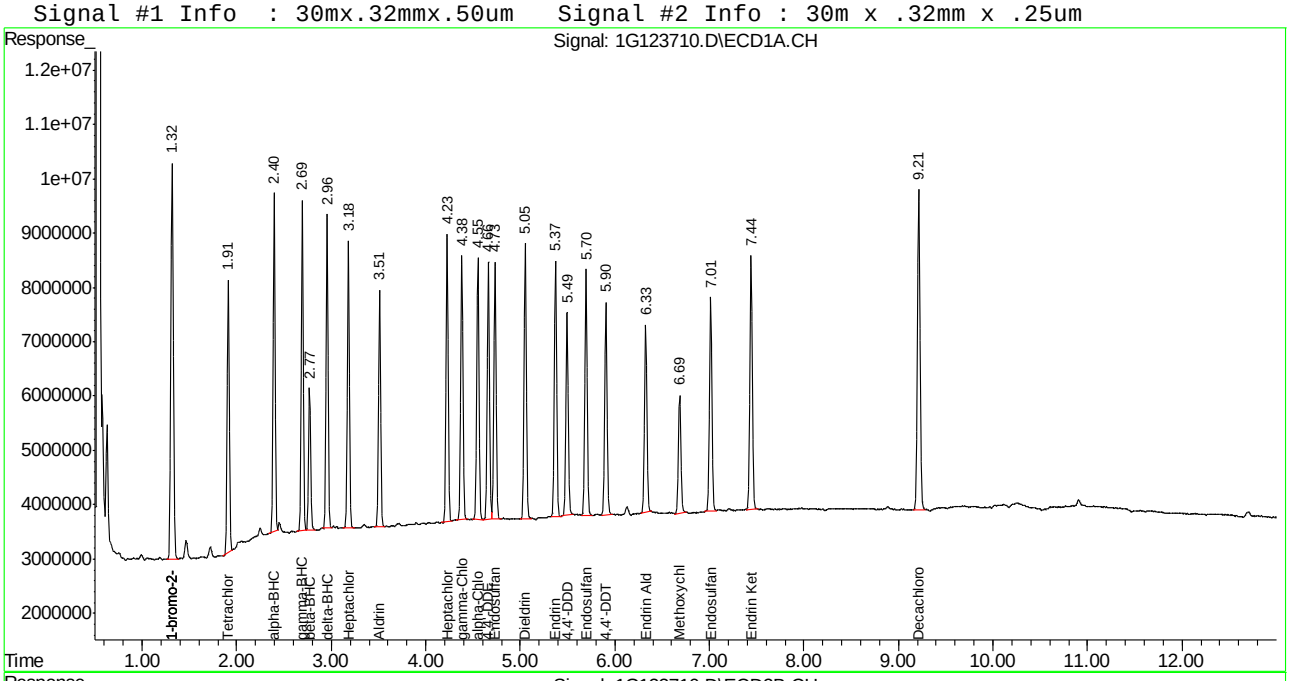
SGS ACCUTEST JC21229

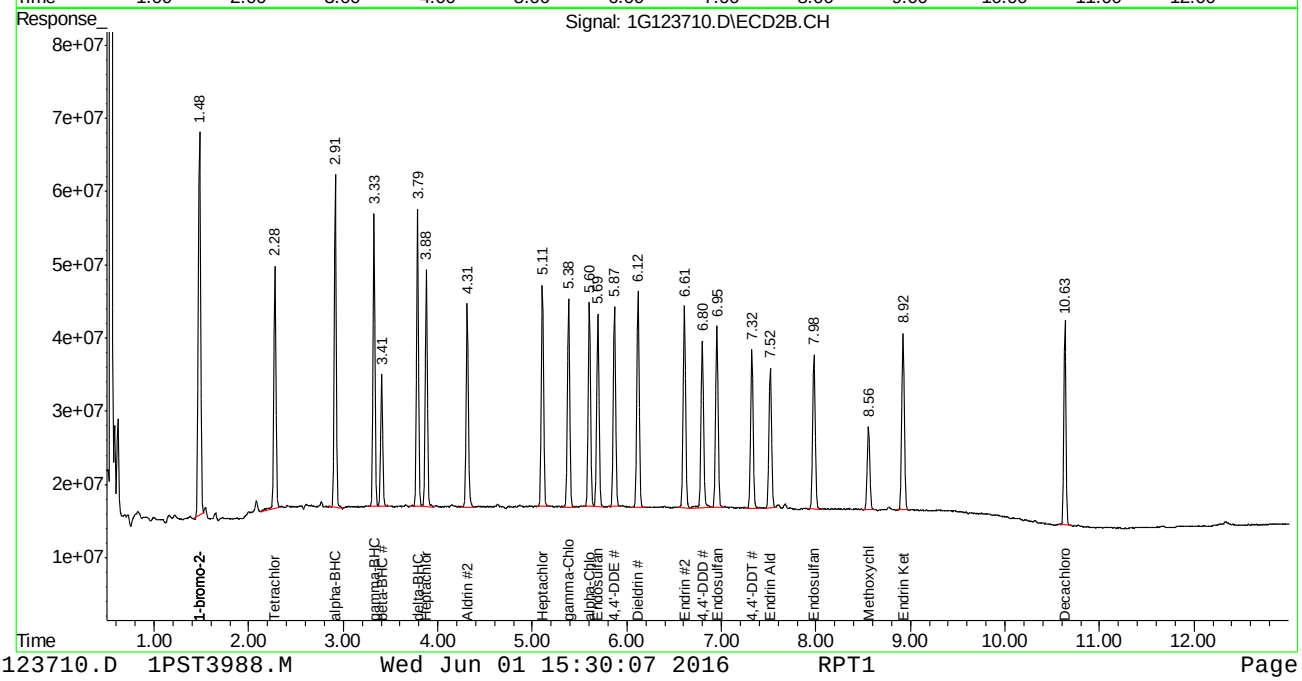
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123710.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123710.D\ECD2B.CH
Acq On : 5-31-16 07:58:22 PM Operator: dharas
Sample : op94349-bsd Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 15:30 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 06/02/16 14:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:32:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.872f	2.049f	396.0E6	348.9E6	50.000	50.000	
25) I	1-bromo-2...	1.872	2.049	396.0E6	348.9E6	50.000	50.000	
31) I	1-bromo-2...	1.872	2.049	396.0E6	348.9E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.434f	2.830f	191.1E6	181.1E6	27.877	28.550	
	Spiked Amount	40.000	Range	30 - 150	Recovery	=	69.69%	71.38%
24) SA	Decachlor...	9.811f	11.165f	231.5E6	111.7E6	39.257	23.661	#
	Spiked Amount	40.000			Recovery	=	98.14%	59.15%
	Target Compounds							
3) A	alpha-BHC	2.908f	3.477f	175.3E6	169.4E6	18.744	19.197	
4) MA	gamma-BHC	3.205f	3.899f	168.0E6	156.4E6	19.687	19.355	
5) MA	Heptachlor	3.701f	4.473f	167.1E6	153.3E6	20.232	18.688	
6) B	beta-BHC	3.282	3.980f	77031911	71217496	19.314	19.311	
7) B	delta-BHC	3.471	4.373f	159.1E6	145.9E6	20.663	20.110	
8) MB	Aldrin	4.040f	4.923f	156.2E6	143.6E6	20.154	19.070	
9) B	Heptachlo...	4.772f	5.739f	154.6E6	135.3E6	21.531m	19.784	
10) B	gamma-Chl...	4.933f	6.022f	154.6E6	132.7E6	21.490	19.737	
11) B	alpha-Chl...	5.105f	6.247f	148.2E6	128.8E6	21.728	19.375	
12) A	Endosulfan I	5.292f	6.343f	142.9E6	121.3E6	20.887m	19.207	
13) B	4,4'-DDE	5.213f	6.508f	147.0E6	130.1E6	20.851	19.126	
14) MA	Dieldrin	5.619f	6.777f	150.7E6	133.3E6	21.509	20.080	
15) MA	Endrin	5.948f	7.279f	141.6E6	116.7E6	22.781	21.360	
16) A	4,4'-DDD	6.065f	7.454f	116.3E6	107.6E6	20.744	20.582	
17) B	Endosulfa...	6.277f	7.627f	134.1E6	109.3E6	21.151m	17.988	
18) MA	4,4'-DDT	6.486f	7.987f	112.7E6	94038972	19.491	17.633	
19) B	Endrin Al...	6.922f	8.197f	105.0E6	80612886	20.666	17.619	
20) B	Endosulfa...	7.622f	8.663f	117.3E6	85236984	20.808	16.910	
21) A	Methoxychlor	7.274f	9.223f	66539635	44402718	20.291	14.901	#
23) B	Endrin Ke...	8.060f	9.620f	136.6E6	98212995	20.328	17.013	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

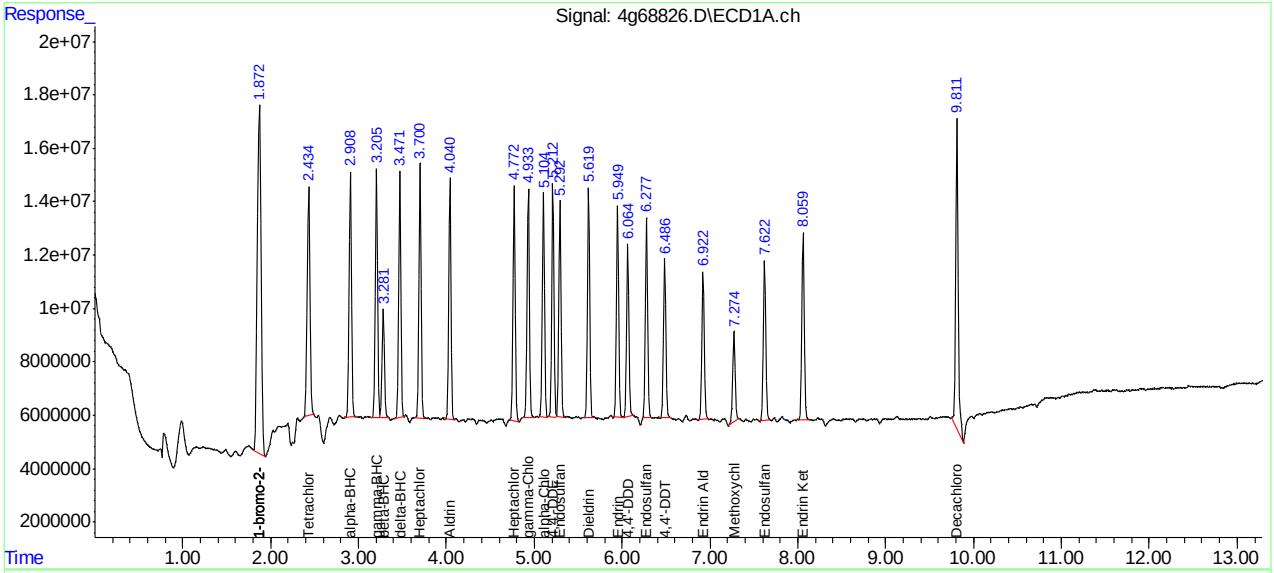
SGS ACCUTEST JC21229

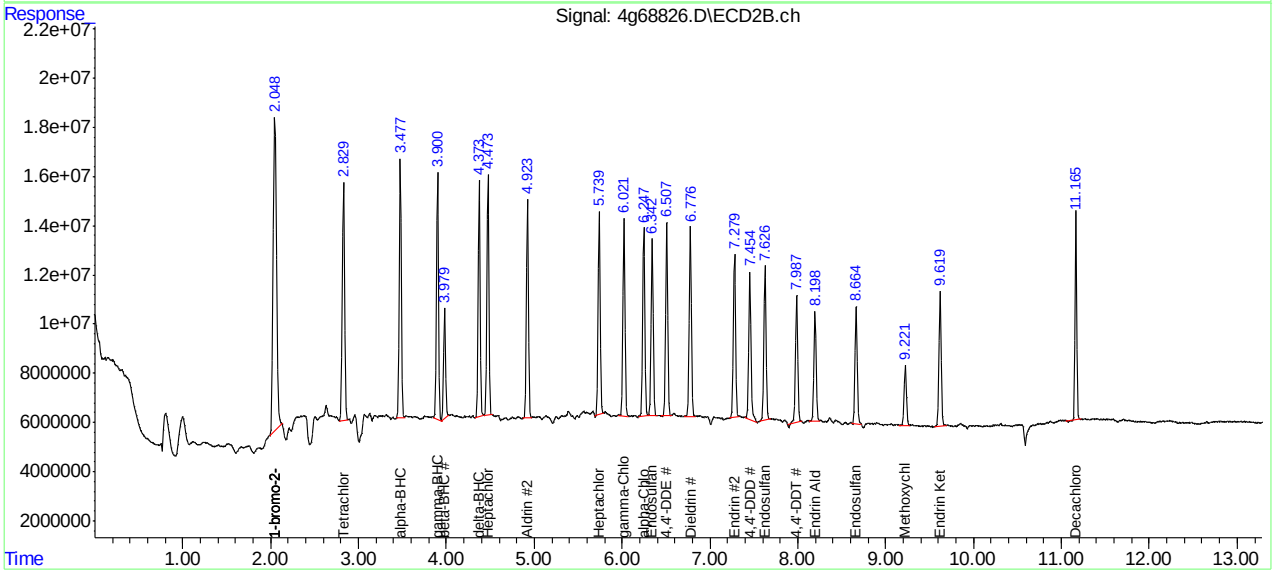
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:32:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	OP94393-BS1	**Method:**	SW846 8081B
Lab FileID:	4G68826.D	**Analyst approved:**	06/02/16 14:42 Kristen Drake
Injection Time:	06/02/16 12:53	**Supervisor approved:**	06/02/16 14:45 Gwendolyn Burns

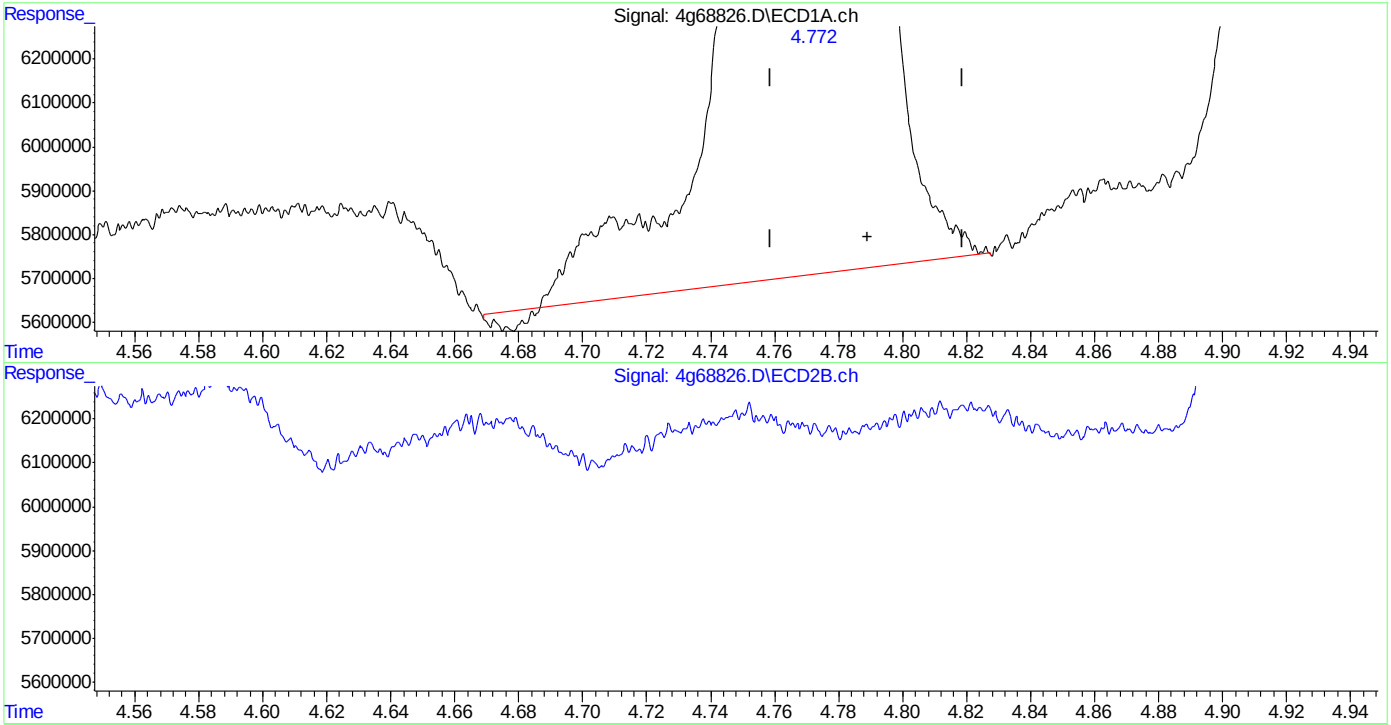
Parameter	CAS	Sig#	R.T. (min.)	Reason
Heptachlor epoxide	1024-57-3	1	4.77	Poorly defined baseline
Endosulfan-I	959-98-8	1	5.29	Poorly defined baseline
Endosulfan-II	33213-65-9	1	6.28	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:30:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(9) Heptachlor Epoxide (B)
4.771min 22.581 PPB
response 162091057

(9) Heptachlor Epoxide #2 (B)
5.739min 19.784 PPB
response 135270844

(+) = Expected Retention Time

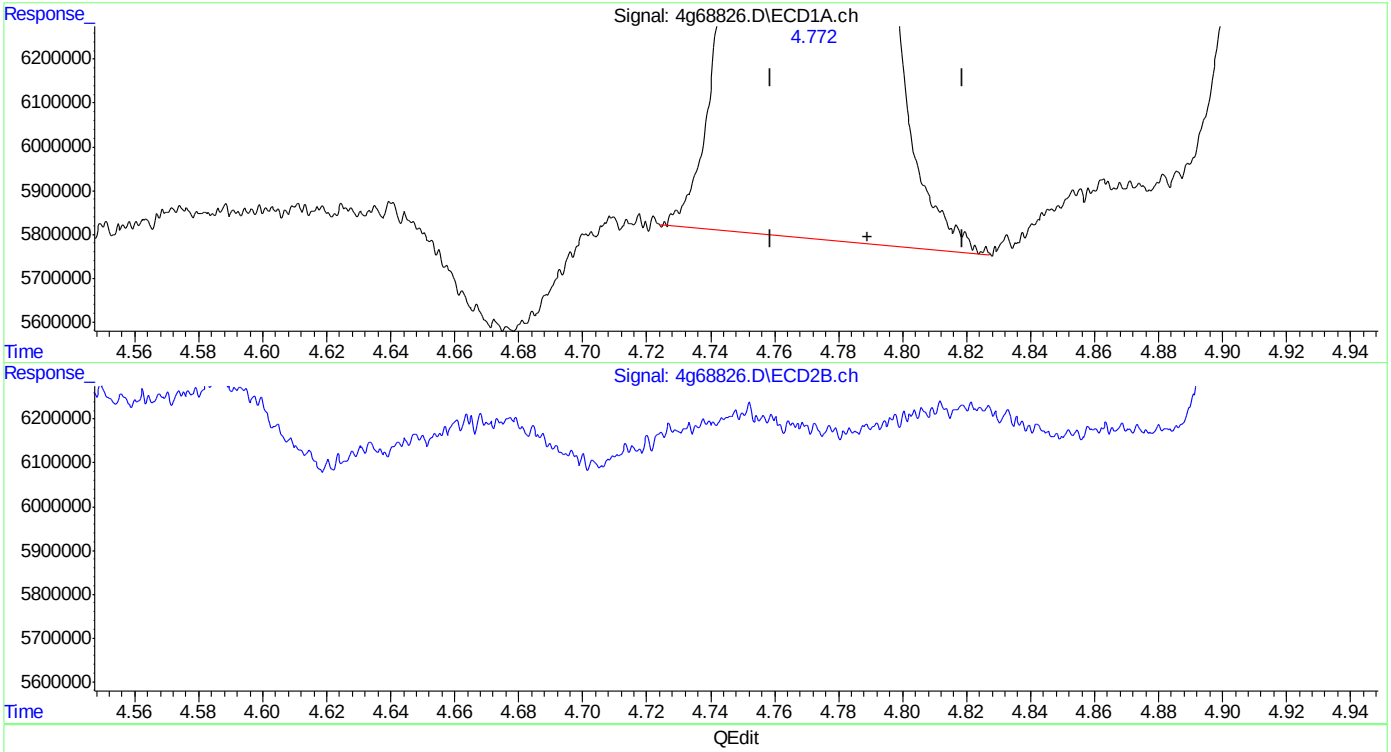
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:30:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(9) Heptachlor Epoxide (B)
4.772min 21.531 PPB m
response 154553907

(9) Heptachlor Epoxide #2 (B)
5.739min 19.784 PPB
response 135270844

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 14:31:41 2016 RPT1

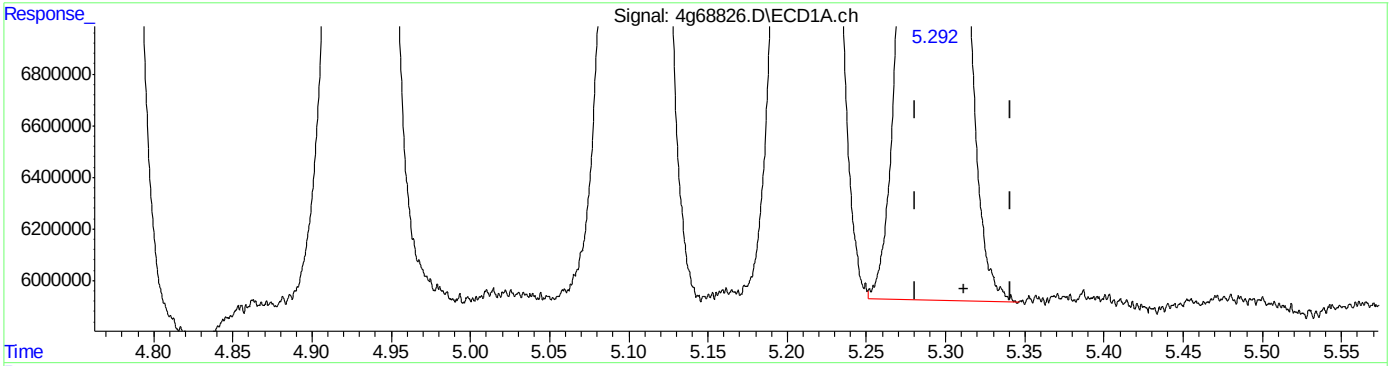
SGS ACCUTEST JC21229

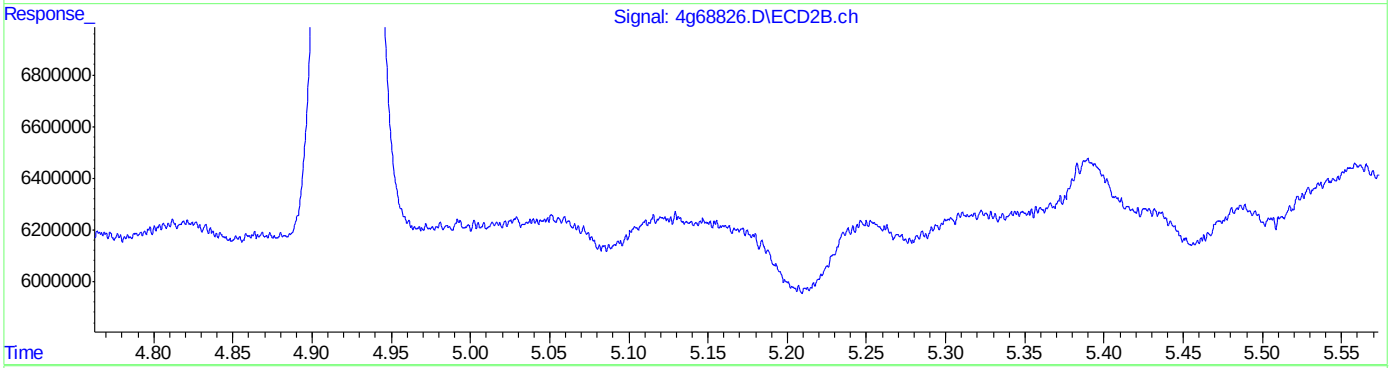
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:30:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(12) Endosulfan I (A)
5.293min 21.009 PPB
response 143725927

(12) Endosulfan I #2 (A)
6.343min 19.207 PPB
response 121278407

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 14:31:54 2016 RPT1

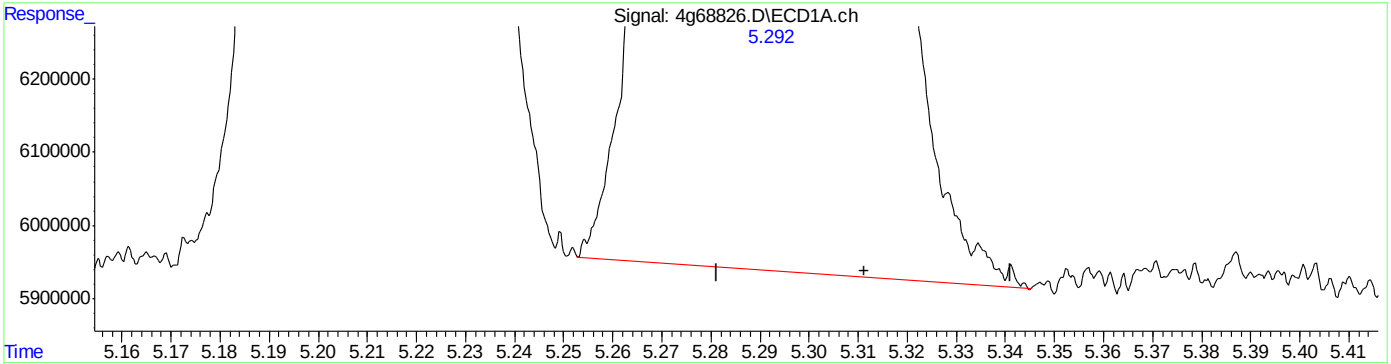
SGS ACCUTEST JC21229

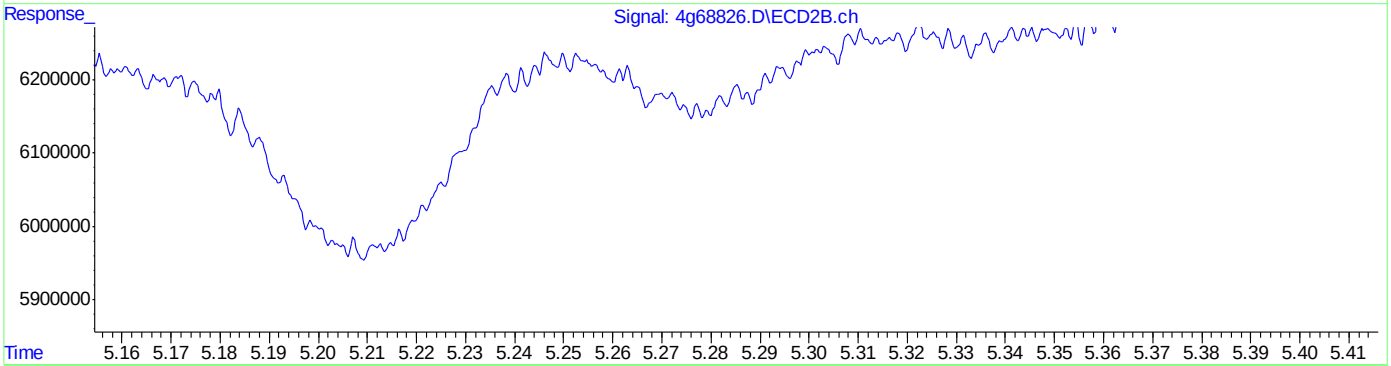
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:30:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(12) Endosulfan I (A)
5.292min 20.887 PPB m
response 142892316

(12) Endosulfan I #2 (A)
6.343min 19.207 PPB
response 121278407

(+) = Expected Retention Time

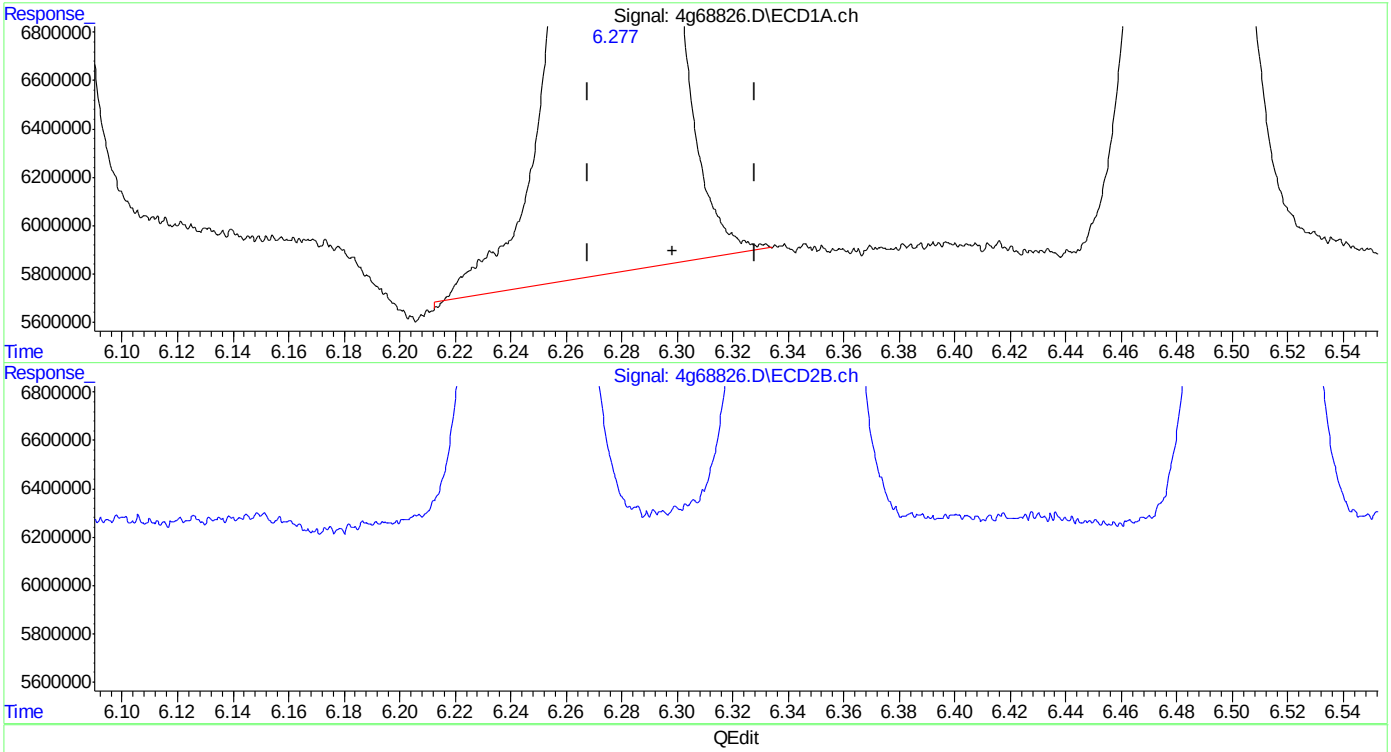
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:30:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(17) Endosulfan II (B)
6.278min 22.171 PPB
response 140534093

(17) Endosulfan II #2 (B)
7.627min 17.988 PPB
response 109303094

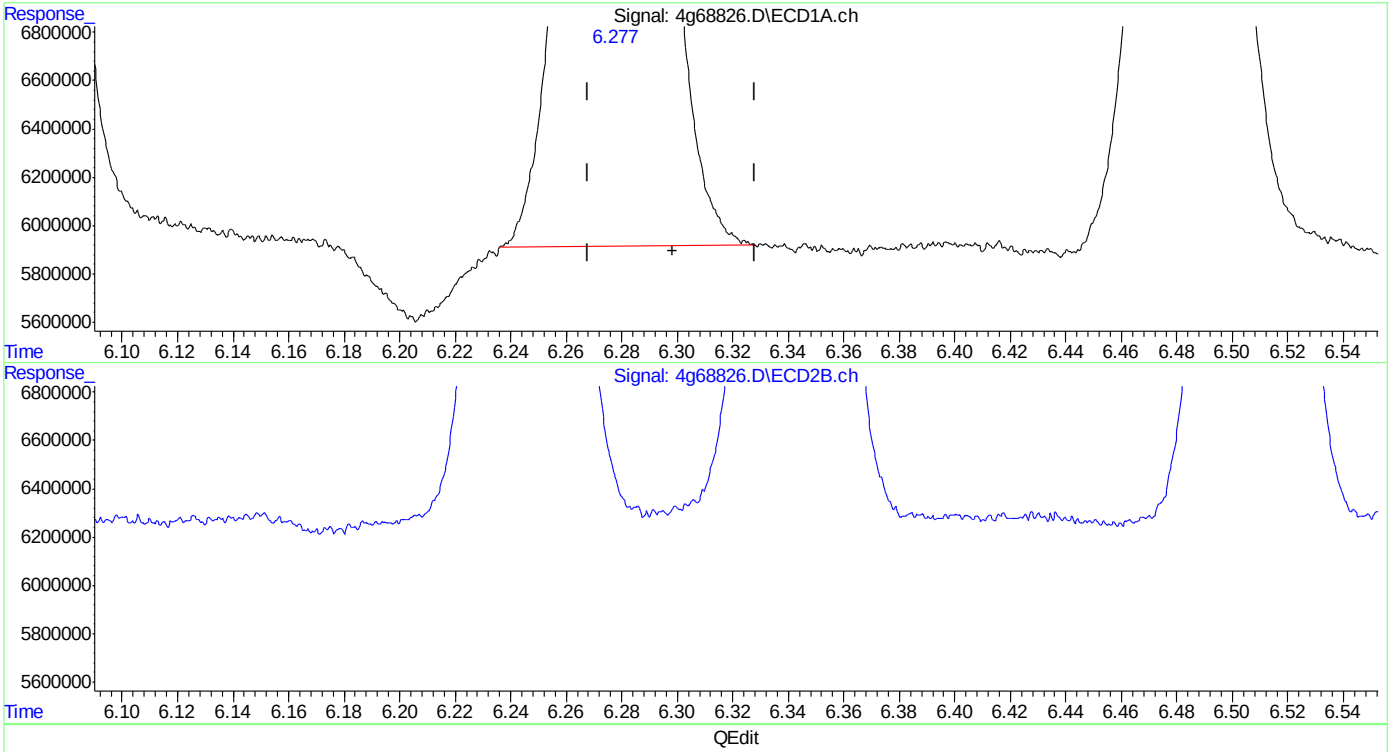
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68826.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:53 pm
Operator : dharas
Sample : op94393-bs1
Misc : op94393,g4g1806,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 14:30:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(17) Endosulfan II (B)
6.277min 21.151 PPB m
response 134070932

(17) Endosulfan II #2 (B)
7.627min 17.988 PPB
response 109303094

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 14:32:23 2016 RPT1

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD2B.CH
Acq On : 03 Jun 2016 10:49 am Operator: kristend
Sample : op94431-bs1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:57 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	168.3E6	1082.0E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.50	168.3E6	1082.0E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.50	168.3E6	1082.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	105.1E6	652.8E6	34.547	33.914
Spiked Amount	40.000	Range	30 - 150	Recovery	=	86.37%	84.78%
24) SA	Decachlorobiphen	9.21	10.66	139.8E6	500.4E6	33.785	36.999
Spiked Amount	40.000			Recovery	=	84.46%	92.50%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	99826128	670.4E6	22.939	23.261
4) MA	gamma-BHC	2.71	3.34	96349772	625.6E6	23.693	23.980
5) MA	Heptachlor	3.19	3.89	97412955	578.0E6	23.533	23.740
6) B	beta-BHC	2.78	3.42	44952640	285.5E6	23.099	23.871
7) B	delta-BHC	2.97	3.80	94044092	602.7E6	23.587	23.110
8) MB	Aldrin	3.52	4.33	88811638	557.5E6	23.542	25.022
9) B	Heptachlor Epoxi	4.23	5.12	94767792	555.8E6	25.489	27.883
10) B	gamma-Chlordane	4.39	5.40	95406806	542.8E6	24.932	26.658
11) B	alpha-Chlordane	4.56	5.62	94075693	536.7E6	24.787	26.620
12) A	Endosulfan I	4.74	5.71	90407509	513.9E6	24.760	27.637
13) B	4,4'-DDE	4.67	5.89	93035839	532.0E6	24.316	26.600
14) MA	Dieldrin	5.06	6.13	98736606	580.6E6	25.970	27.808
15) MA	Endrin	5.38	6.63	97830416	557.4E6	28.386	30.332
16) A	4,4'-DDD	5.50	6.82	75415544	458.2E6	25.095	27.821
17) B	Endosulfan II	5.70	6.97	91118112	502.2E6	25.229	26.700
18) MA	4,4'-DDT	5.91	7.34	79506312	429.4E6	24.287	26.568
19) B	Endrin Aldehyde	6.33	7.54	68993296	375.0E6	24.183	25.983
20) B	Endosulfan Sulfa	7.02	8.00	80571725	434.2E6	23.236	26.384
21) A	Methoxychlor	6.69	8.58	47699762	240.0E6	24.604	27.656
23) B	Endrin Ketone	7.44	8.94	87532382	458.7E6	22.309	24.862

(f)=RT Delta > 1/2 Window (m)=manual int.

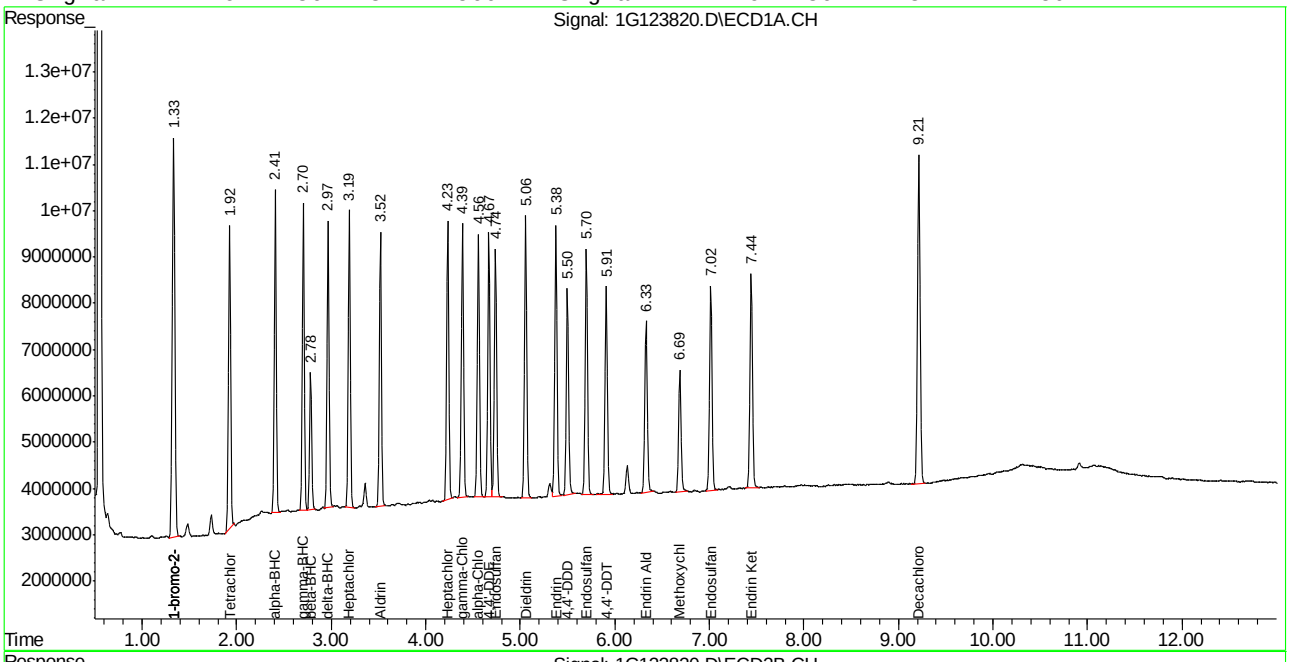
SGS ACCUTEST JC21229

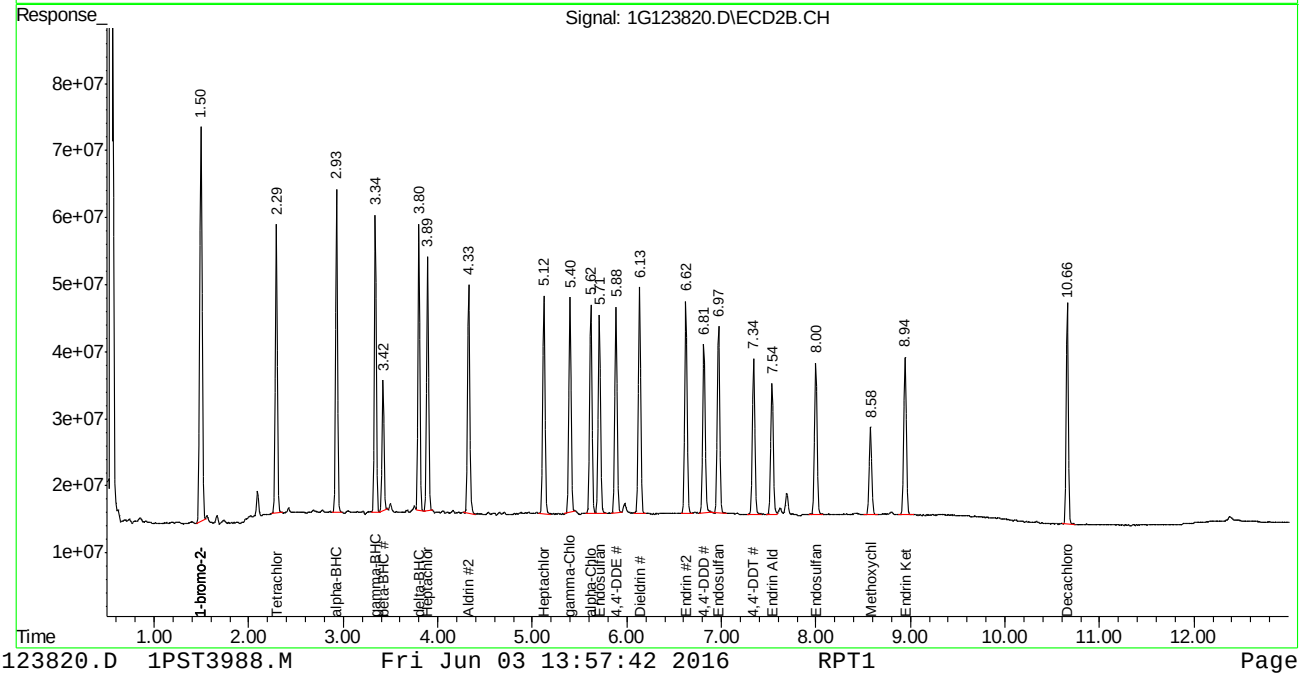
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD1A.CH Vial: 5
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123820.D\ECD2B.CH
Acq On : 03 Jun 2016 10:49 am Operator: kristend
Sample : op94431-bs1 Inst : GC1G
Misc : op94431,g1g4003,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 13:57 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/07/16 09:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:01:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.875	2.040	424.8E6	397.9E6	50.000	50.000
25) I	1-bromo-2...	1.875	2.040	424.8E6	397.9E6	50.000	50.000
31) I	1-bromo-2...	1.875	2.040	424.8E6	397.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.440	2.819	204.9E6	185.2E6	27.866m	25.601
Spiked Amount		40.000 Range	30 - 150	Recovery	=	69.66%	64.00%
24) SA	Decachlor...	9.820	11.175	214.2E6	154.5E6	33.871	28.693m
Spiked Amount		40.000		Recovery	=	84.68%	71.73%
	Target Compounds						
3) A	alpha-BHC	2.914	3.464	216.9E6	173.8E6	21.621	17.270
4) MA	gamma-BHC	3.213	3.884f	187.9E6	199.6E6	20.529	21.665
5) MA	Heptachlor	3.708	4.458	184.5E6	167.2E6	20.822	17.866
6) B	beta-BHC	3.289	3.965f	58451765	72699841	13.664	17.283 #
7) B	delta-BHC	3.478	4.359	188.5E6	153.3E6	22.831	18.520
8) MB	Aldrin	4.049	4.909	176.8E6	152.0E6	21.272	17.699
9) B	Heptachlo...	4.780	5.725	181.0E6	144.7E6	23.507	18.560
10) B	gamma-Chl...	4.943	6.007f	202.3E6	145.6E6	26.215	18.983m#
11) B	alpha-Chl...	5.114	6.233	265.4E6	184.0E6	36.281	24.280m#
12) A	Endosulfan I	5.303	6.328f	163.8E6	118.2E6	22.319	16.411 #
13) B	4,4'-DDE	5.220	6.494	163.0E6	142.5E6	21.556	18.370
14) MA	Dieldrin	5.628	6.764	147.4E6	208.4E6	19.617	27.533 #
15) MA	Endrin	5.959	7.267	164.1E6	128.6E6	24.603	20.632
16) A	4,4'-DDD	6.072	7.441	131.2E6	136.6E6	21.824	22.903
17) B	Endosulfa...	6.288	7.617	130.5E6	116.3E6	19.199	16.782
18) MA	4,4'-DDT	6.493	7.977	257.2E6	218.1E6	41.459	35.862
19) B	Endrin Al...	6.929	8.187	120.0E6	67077128	22.025	12.854 #
20) B	Endosulfa...	7.632	8.653	105.5E6	113.9E6	17.449	19.810
21) A	Methoxychlor	7.282	9.215	68221700	41597519	19.396	12.240 #
23) B	Endrin Ke...	8.069	9.613	241.5E6	115.1E6	33.509	17.486 #

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

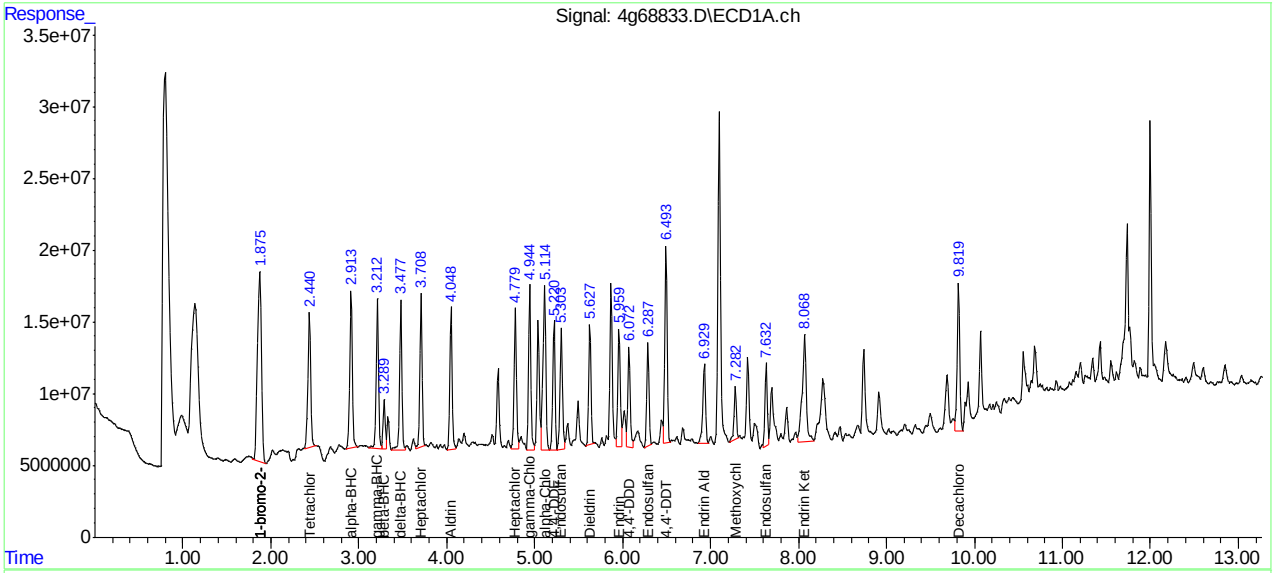
SGS ACCUTEST JC21229

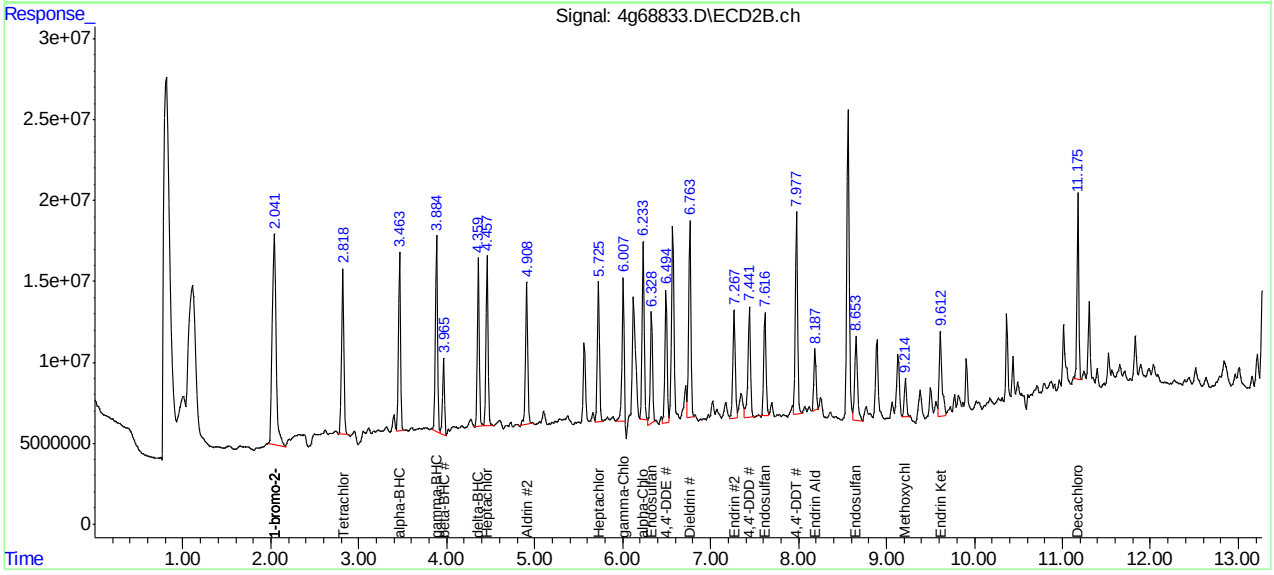
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:01:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP94393-MS	**Method:**	SW846 8081B
Lab FileID:	4G68833.D	**Analyst approved:**	06/06/16 15:16 Dhara Saparia
Injection Time:	06/02/16 16:52	**Supervisor approved:**	06/07/16 09:53 Gwendolyn Burns

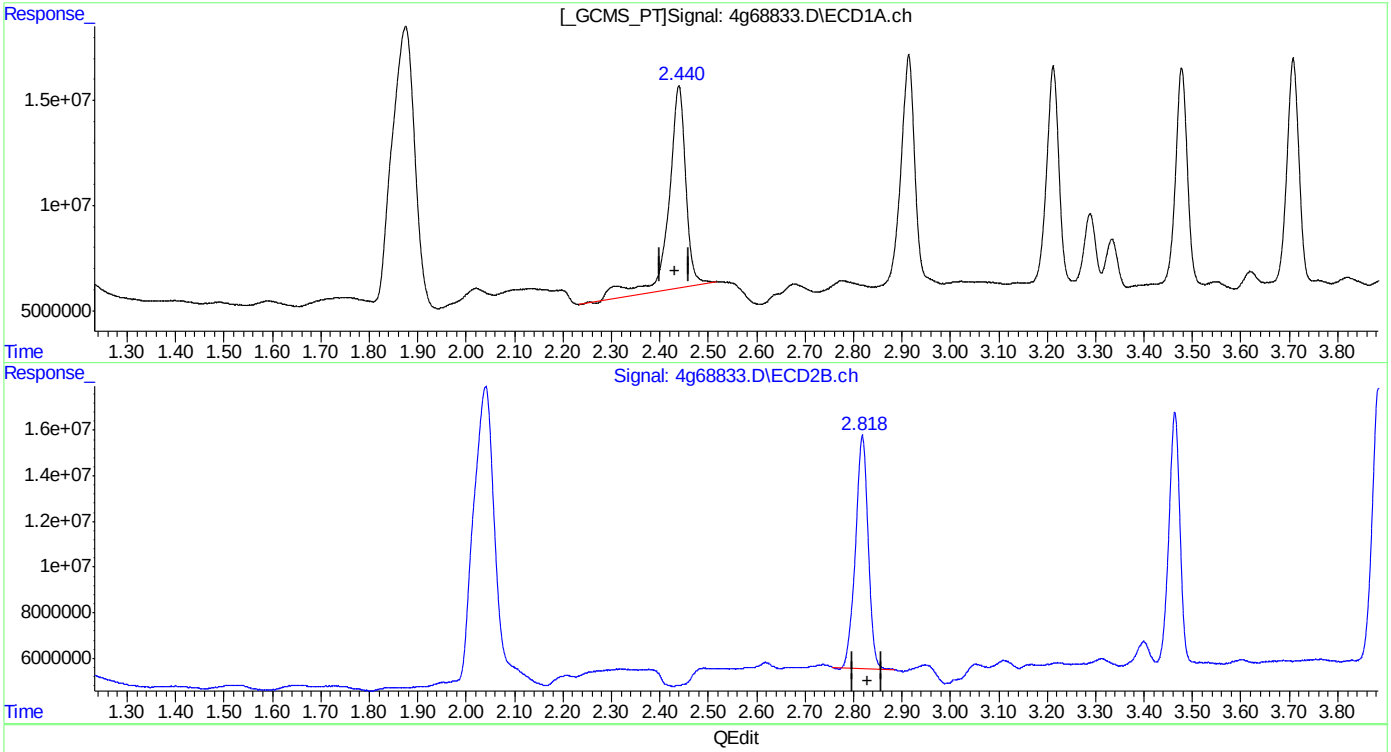
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.44	Poor instrument integration
gamma-Chlordane	5103-74-2	2	6.01	Poor instrument integration
alpha-Chlordane	5103-71-9	2	6.23	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.18	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.439min 33.094 PPB
response 243291967

(2) Tetrachloro-m-xylene #2 (SAB)
2.819min 25.601 PPB
response 185239278

(+) = Expected Retention Time

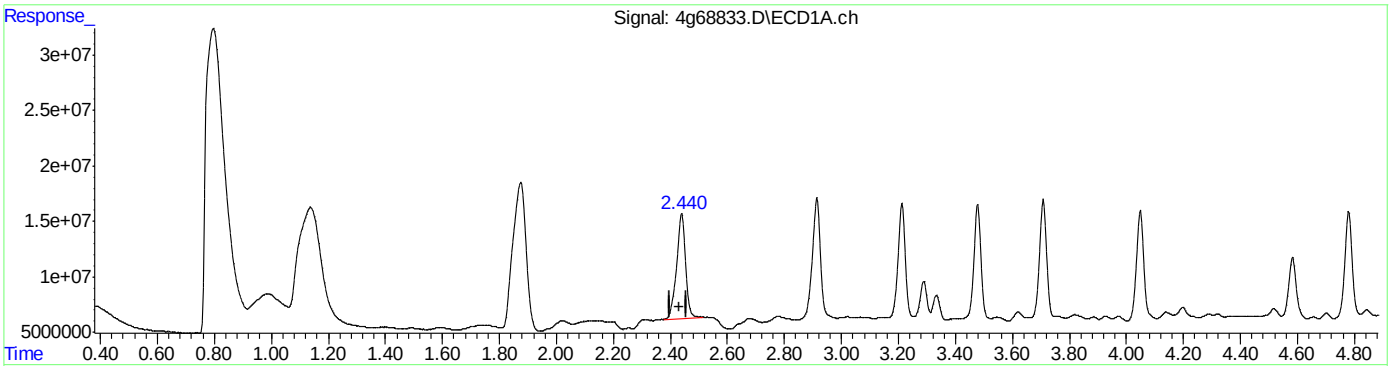
SGS ACCUTEST JC21229

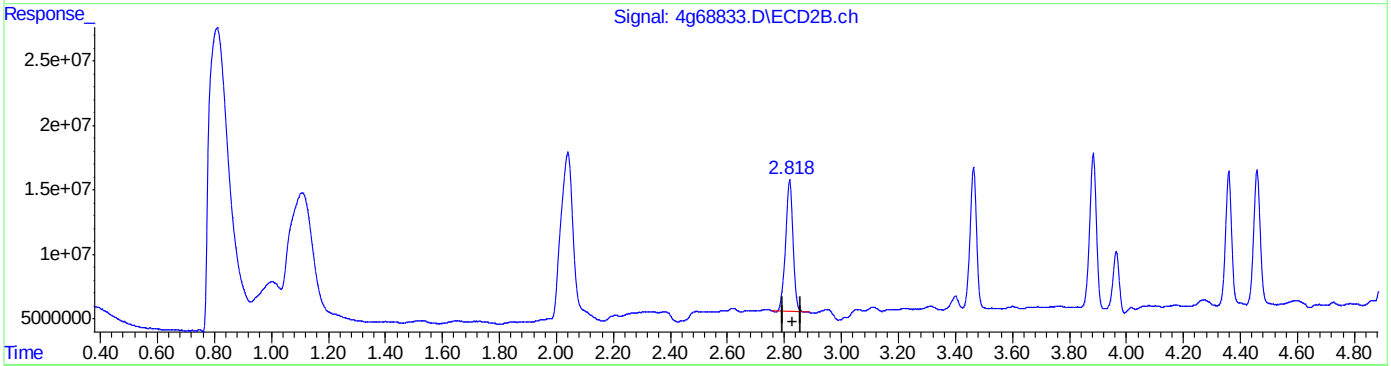
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.440min 27.866 PPB m
response 204858840

(2) Tetrachloro-m-xylene #2 (SAB)
2.819min 25.601 PPB
response 185239278

(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:00:49 2016 RPT1

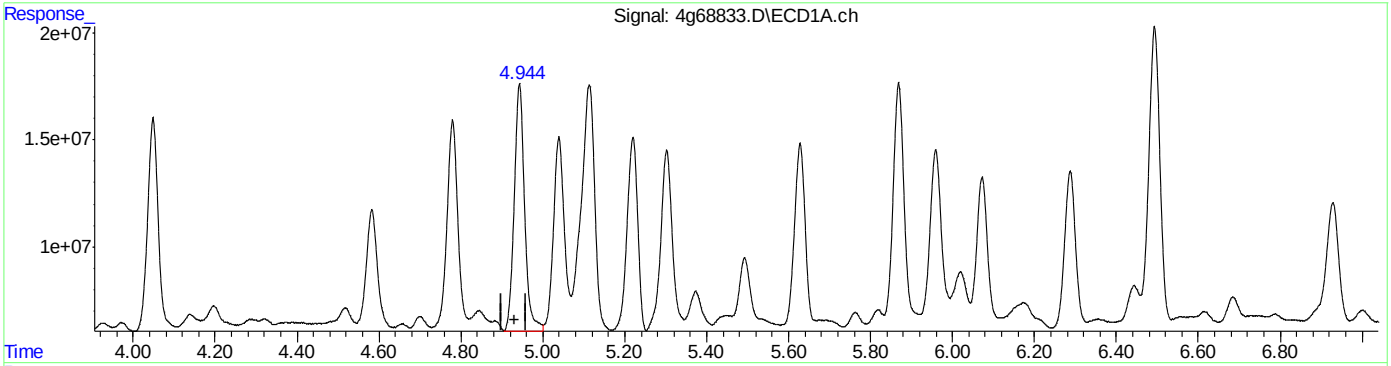
SGS ACCUTEST JC21229

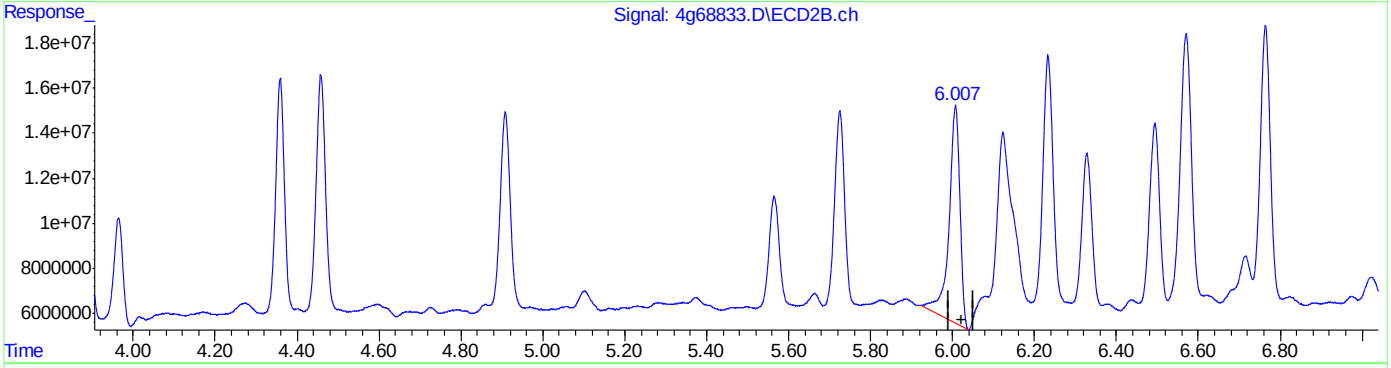
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
4.943min 26.215 PPB
response 202328933

(10) gamma-Chlordane #2 (B)
6.008min 23.164 PPB
response 177646158

(+) = Expected Retention Time

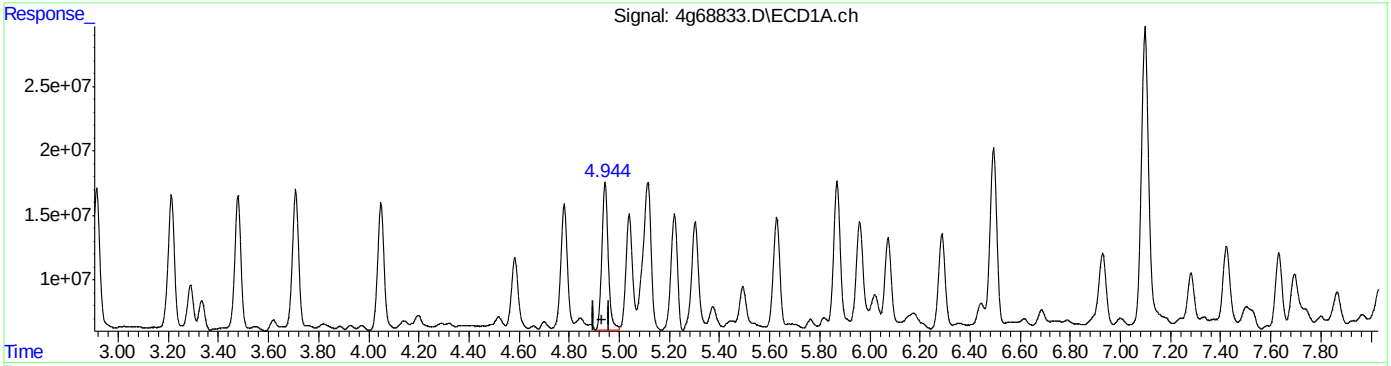
SGS ACCUTEST JC21229

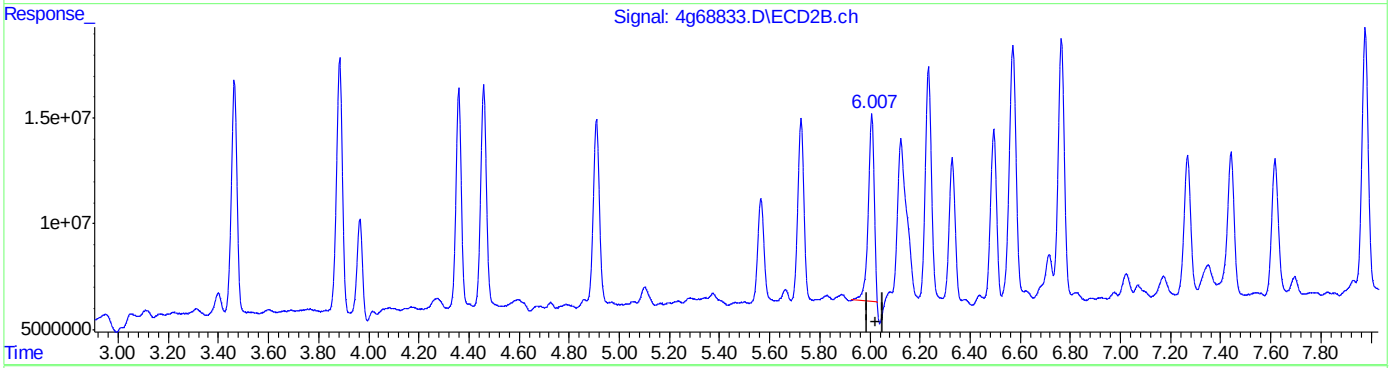
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(10) gamma-Chlordane (B)
4.943min 26.215 PPB
response 202328933

(10) gamma-Chlordane #2 (B)
6.007min 18.983 PPB m
response 145577481

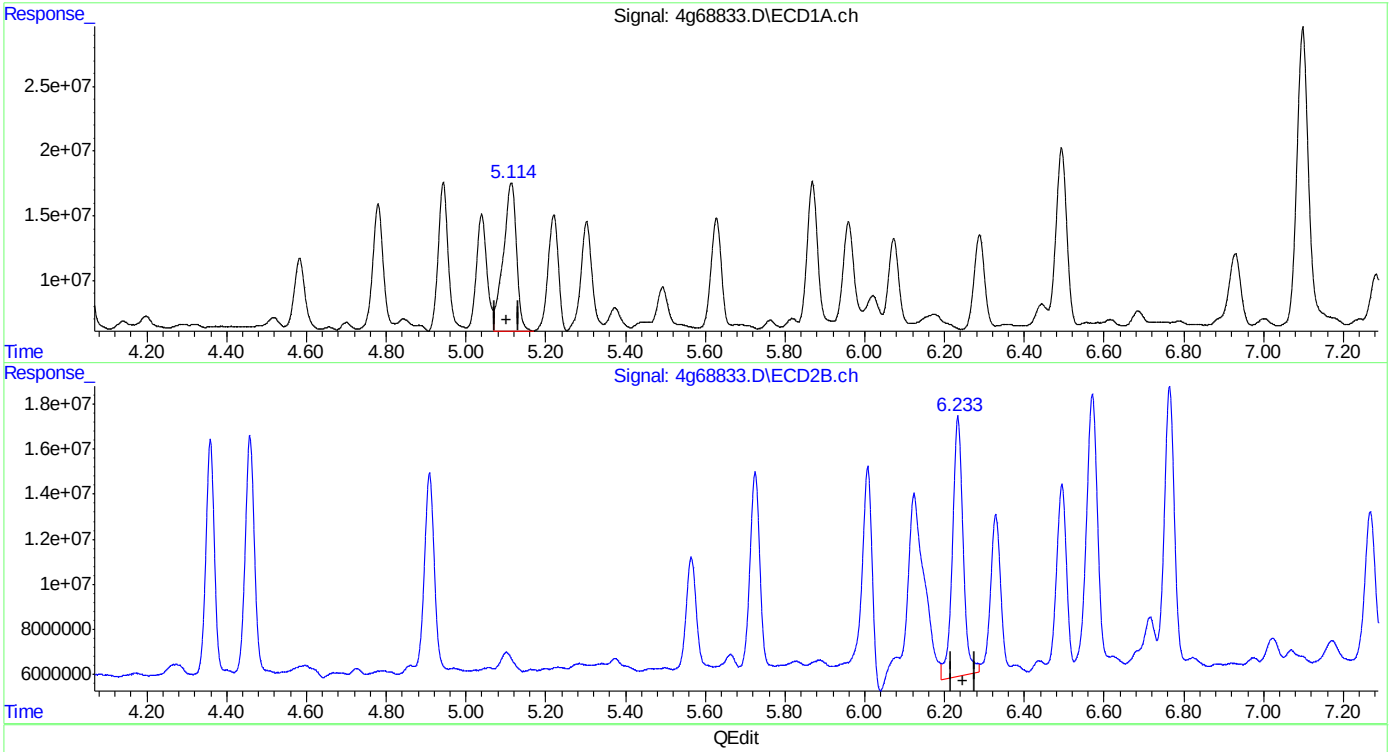
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(11) alpha-Chlordane (B)
5.114min 36.281 PPB
response 265428714

(11) alpha-Chlordane #2 (B)
6.233min 28.246 PPB
response 214113320

(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:01:06 2016 RPT1

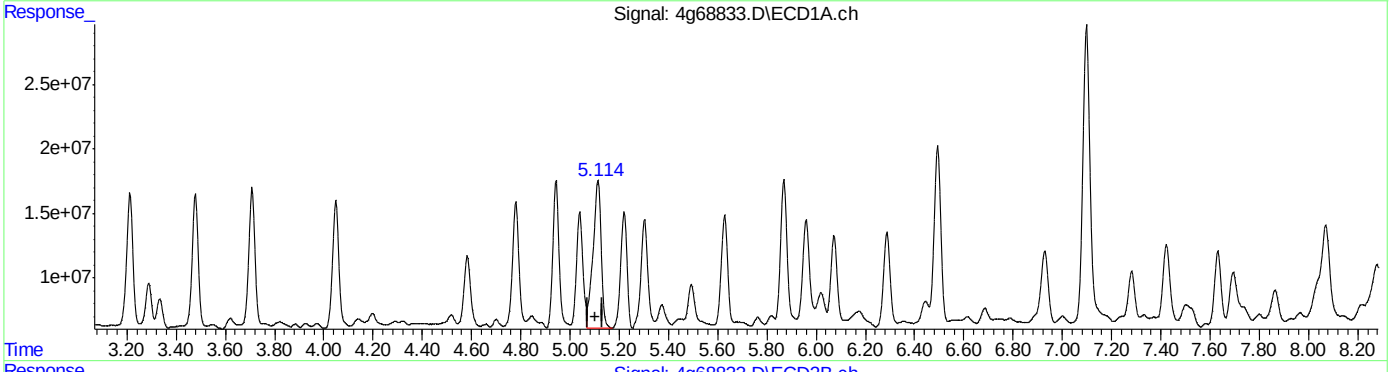
SGS ACCUTEST JC21229

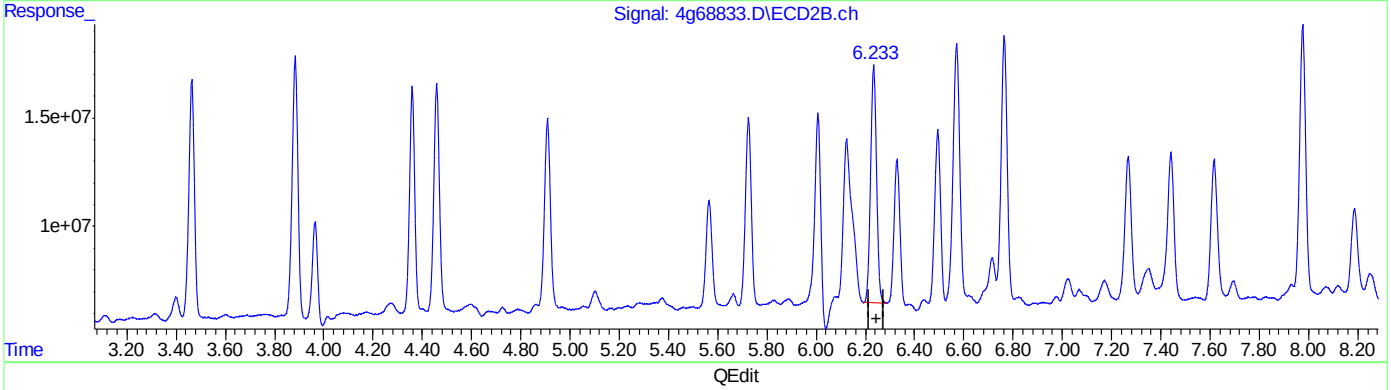
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(11) alpha-Chlordane (B)
5.114min 36.281 PPB
response 265428714

(11) alpha-Chlordane #2 (B)
6.233min 24.280 PPB m
response 184048079

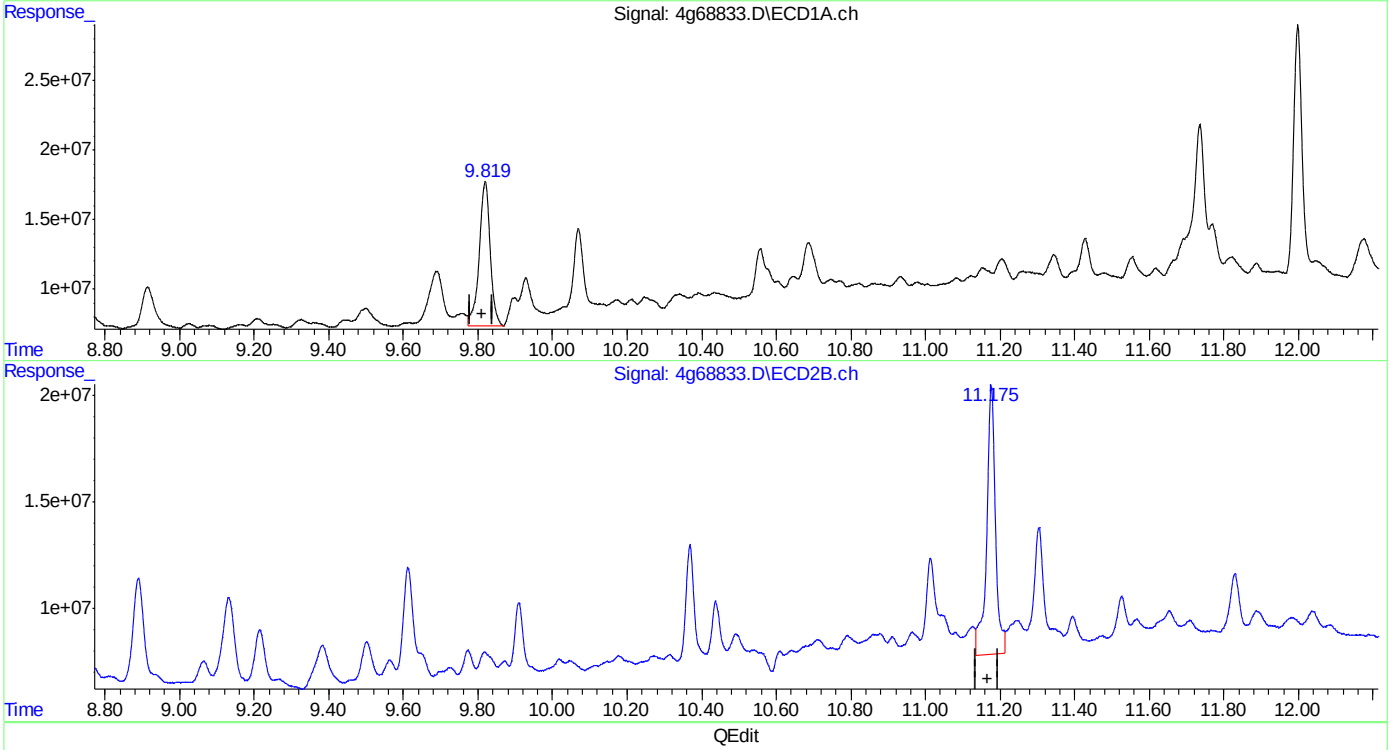
(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:01:12 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.820min 33.871 PPB
response 214204660

(24) Decachlorobiphenyl #2 (SA)
11.177min 38.311 PPB
response 206346403

(+) = Expected Retention Time

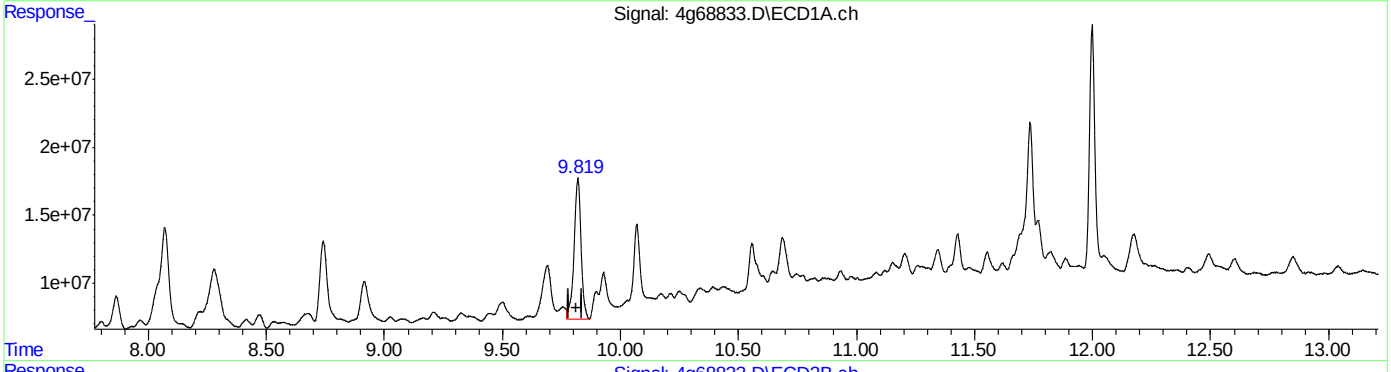
SGS ACCUTEST JC21229

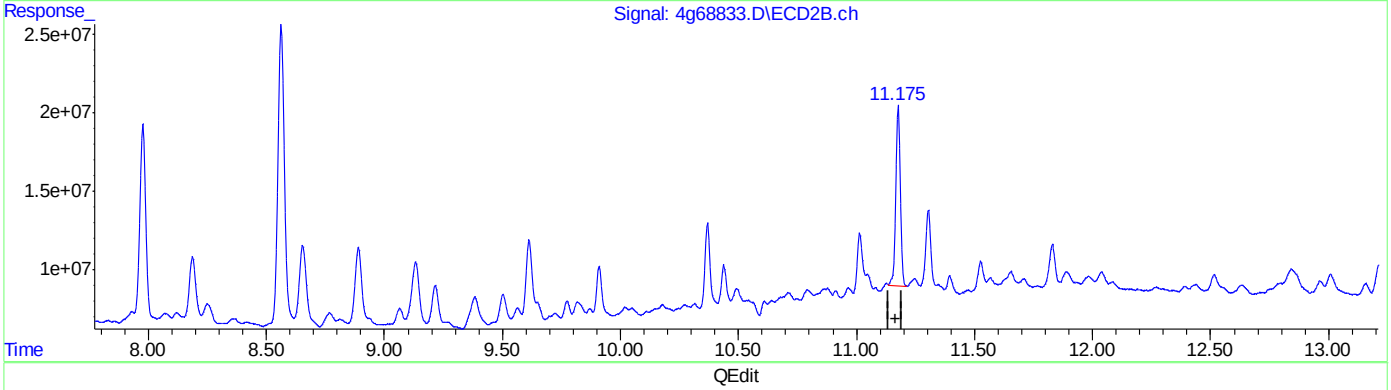
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 4:52 pm
Operator : kristend
Sample : op94393-ms
Misc : op94393,g4g1806,16.1,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:00:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
9.820min 33.871 PPB
response 214204660

(24) Decachlorobiphenyl #2 (SA)
11.175min 28.693 PPB m
response 154546510

(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:01:35 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/07/16 09:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:05:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.875	2.051	427.2E6	418.6E6	50.000	50.000	
25) I	1-bromo-2...	1.875	2.051	427.2E6	418.6E6	50.000	50.000	
31) I	1-bromo-2...	1.875	2.051	427.2E6	418.6E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.437	2.831	185.4E6	173.0E6	25.071m	22.731	
Spiked Amount		40.000 Range	30 - 150	Recovery	=	62.68%	56.83%	
24) SA	Decachlor...	9.813	11.168	164.3E6	129.6E6	25.833m	22.872m	
Spiked Amount		40.000		Recovery	=	64.58%	57.18%	
	Target Compounds							
3) A	alpha-BHC	2.911	3.477	189.7E6	159.0E6	18.796	15.019	
4) MA	gamma-BHC	3.208	3.899	165.6E6	158.2E6	17.992	16.323	
5) MA	Heptachlor	3.703	4.472	173.5E6	146.0E6	19.480	14.834	
6) B	beta-BHC	3.284	3.979	59426115	65716093	13.813	14.850	
7) B	delta-BHC	3.473	4.373	156.7E6	138.7E6	18.874	15.922	
8) MB	Aldrin	4.042	4.921	154.5E6	136.8E6	18.489	15.145	
9) B	Heptachlo...	4.773	5.737	160.5E6	135.0E6	20.729	16.454	
10) B	gamma-Chl...	4.935	6.020	191.9E6	163.9E6	24.723	20.308	
11) B	alpha-Chl...	5.106	6.245	247.7E6	180.6E6	33.672	22.642	#
12) A	Endosulfan I	5.295	6.341	133.3E6	114.3E6	18.057	15.080	
13) B	4,4'-DDE	5.212	6.505	151.9E6	131.2E6	19.969	16.081	
14) MA	Dieldrin	5.621	6.775	226.5E6	198.6E6	29.965	24.937	
15) MA	Endrin	5.951	7.277	122.9E6	105.3E6	18.329	16.059	
16) A	4,4'-DDD	6.065	7.452	109.9E6	107.5E6	18.178	17.134	
17) B	Endosulfa...	6.280	7.626	110.5E6	105.7E6	16.167	14.503m	
18) MA	4,4'-DDT	6.487	7.985	240.6E6	217.7E6	38.554	34.020	
19) B	Endrin Al...	6.923	8.195	90386802	60862674	16.494	11.086	#
20) B	Endosulfa...	7.623	8.662	93977472	87507928	15.451m	14.468	
21) A	Methoxychlor	7.273	9.222	50969514	39435991	14.409m	11.029	
23) B	Endrin Ke...	8.061	9.619	156.1E6	83670708	21.534	12.078	#

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

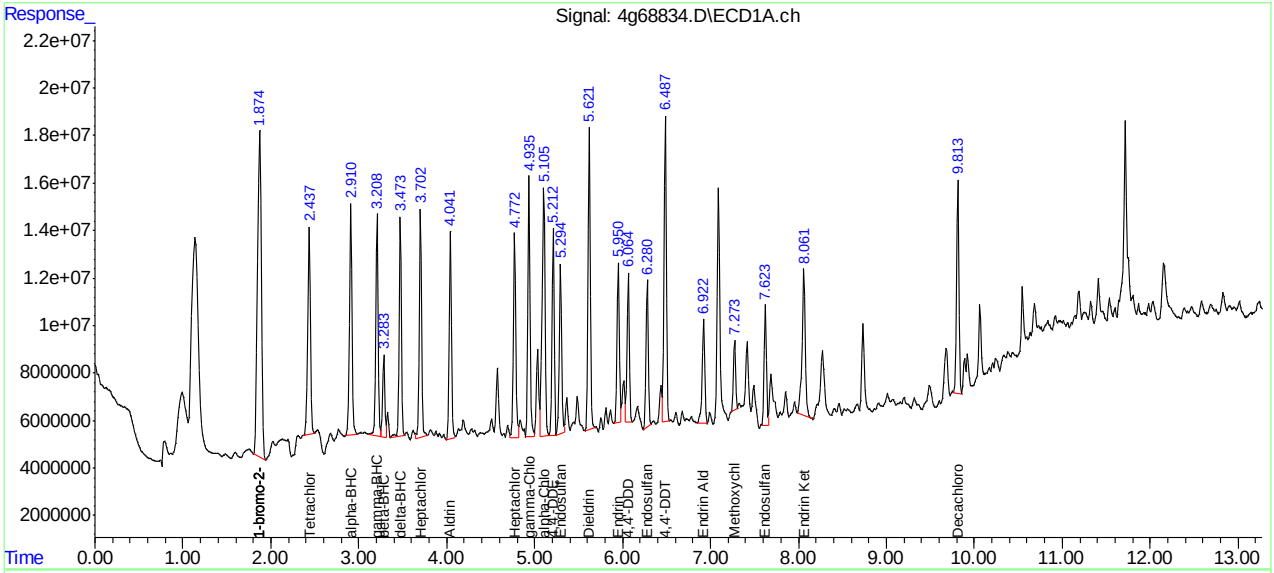
SGS ACCUTEST JC21229

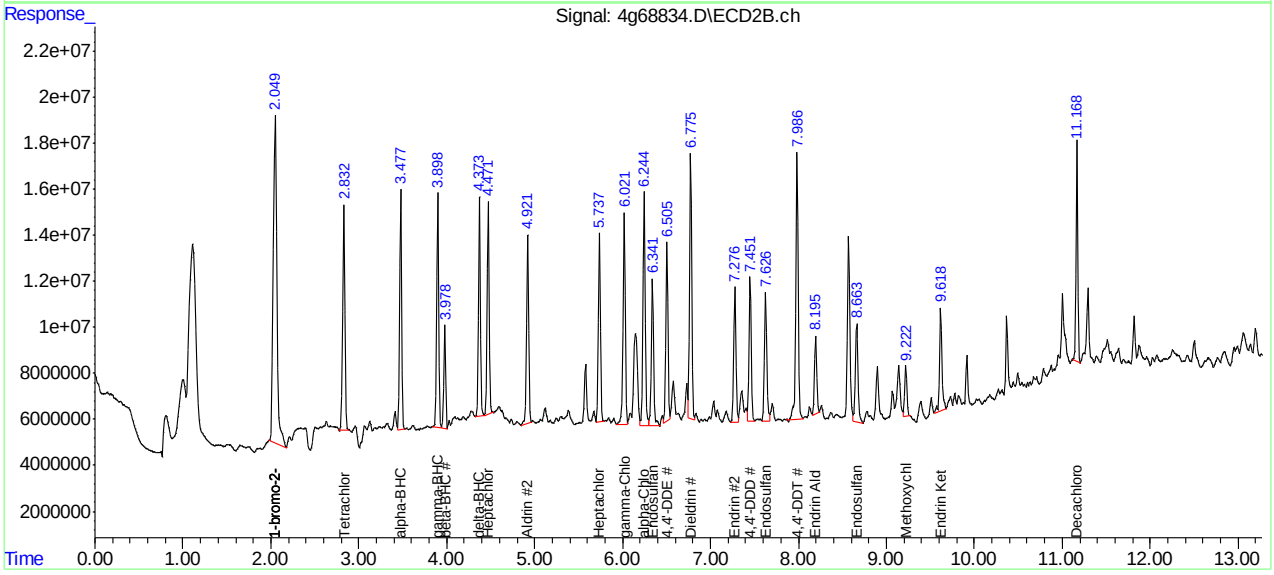
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:05:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	OP94393-MSD	**Method:**	SW846 8081B
Lab FileID:	4G68834.D	**Analyst approved:**	06/06/16 15:16 Dhara Saparia
Injection Time:	06/02/16 17:07	**Supervisor approved:**	06/07/16 09:53 Gwendolyn Burns

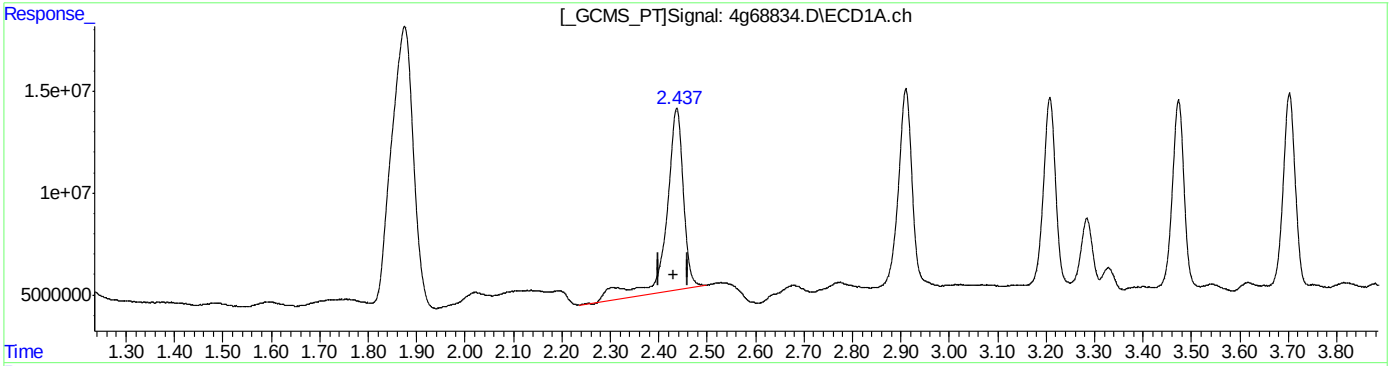
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	2.44	Poor instrument integration
Methoxychlor	72-43-5	1	7.27	Poor instrument integration
Endosulfan sulfate	1031-07-8	1	7.62	Poor instrument integration
Endosulfan-II	33213-65-9	2	7.63	Poor instrument integration
Decachlorobiphenyl	2051-24-3	1	9.81	Poor instrument integration
Decachlorobiphenyl	2051-24-3	2	11.17	Poor instrument integration

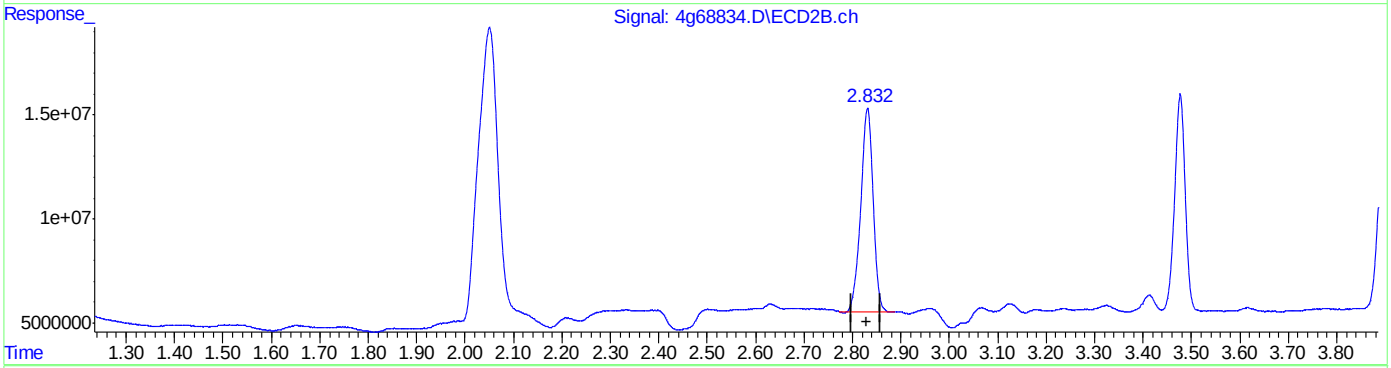
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.437min 30.215 PPB
response 223386926

(2) Tetrachloro-m-xylene #2 (SAB)
2.831min 22.731 PPB
response 173042845

(+) = Expected Retention Time

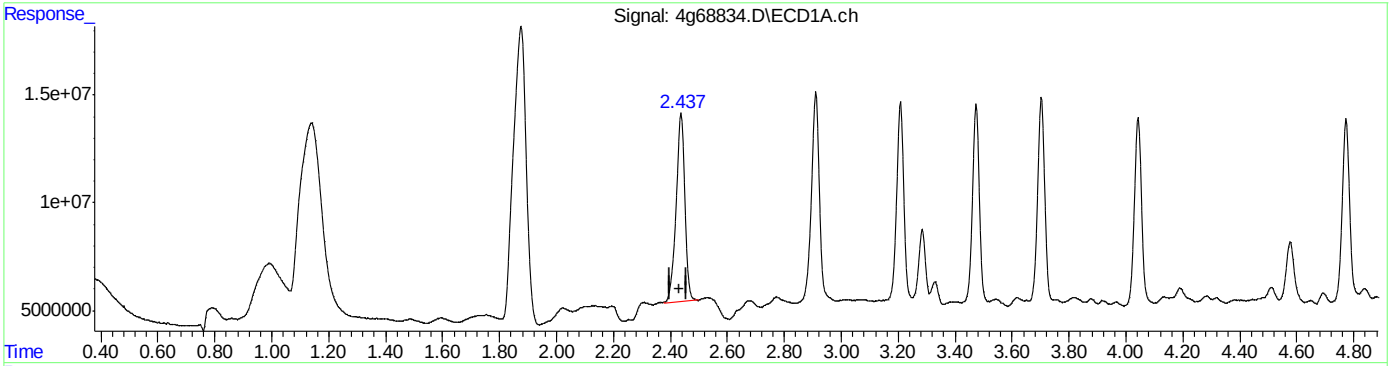
SGS ACCUTEST JC21229

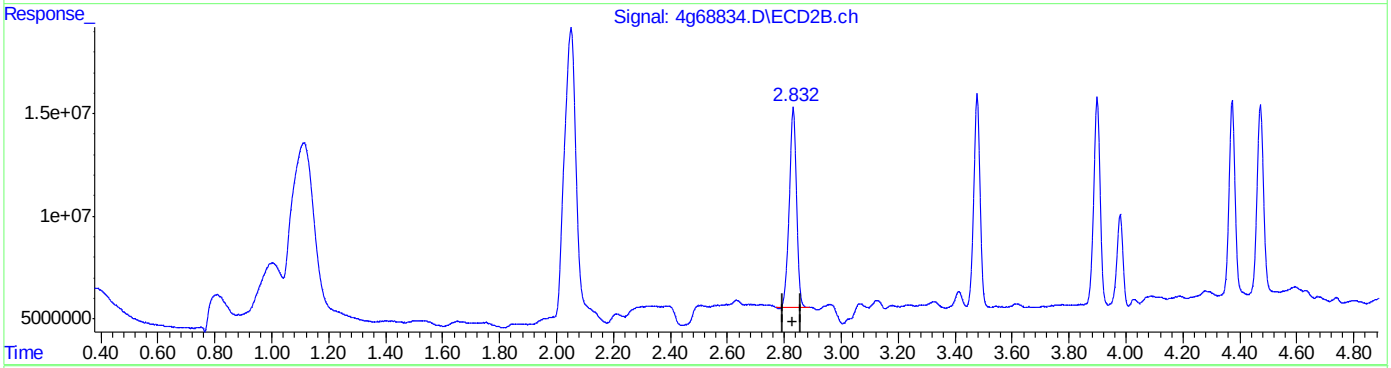
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(2) Tetrachloro-m-xylene (SAB)
2.437min 25.071 PPB m
response 185354621

(2) Tetrachloro-m-xylene #2 (SAB)
2.831min 22.731 PPB
response 173042845

(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:02:15 2016 RPT1

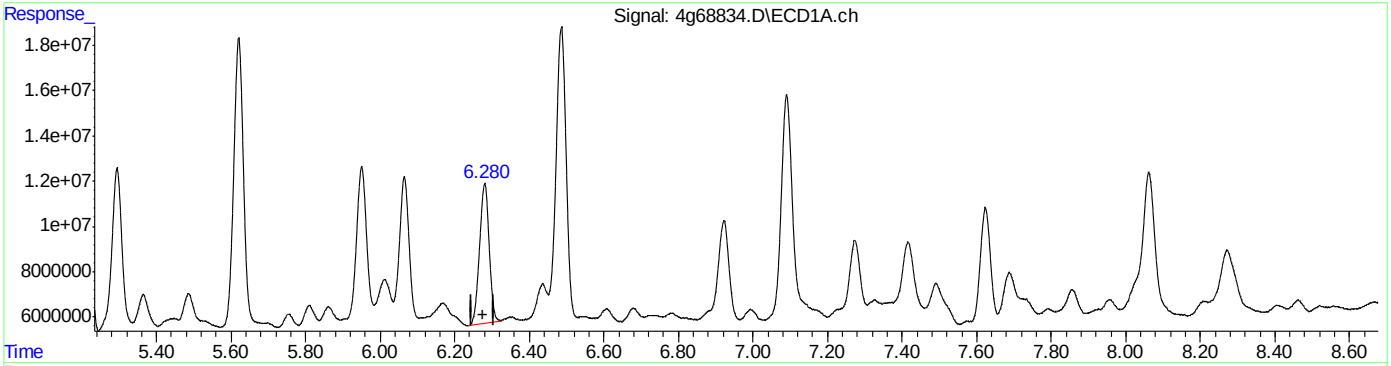
SGS ACCUTEST JC21229

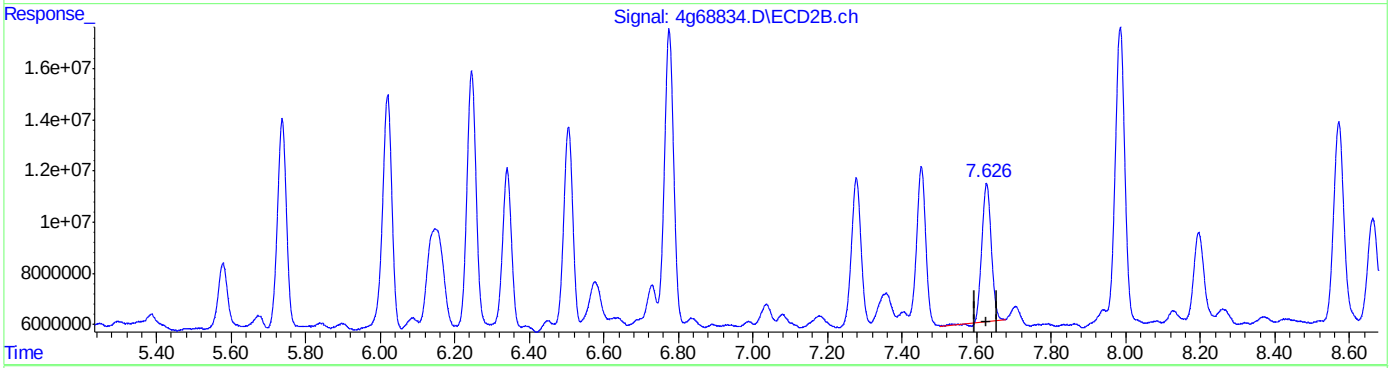
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(17) Endosulfan II (B)
6.280min 16.167 PPB
response 110543105

(17) Endosulfan II #2 (B)
7.627min 12.993 PPB
response 94738806

(+) = Expected Retention Time

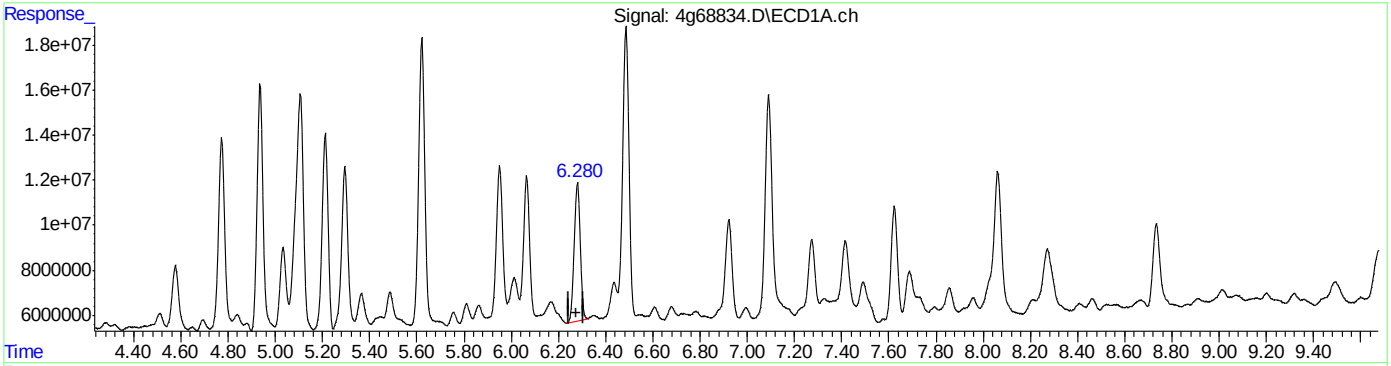
SGS ACCUTEST JC21229

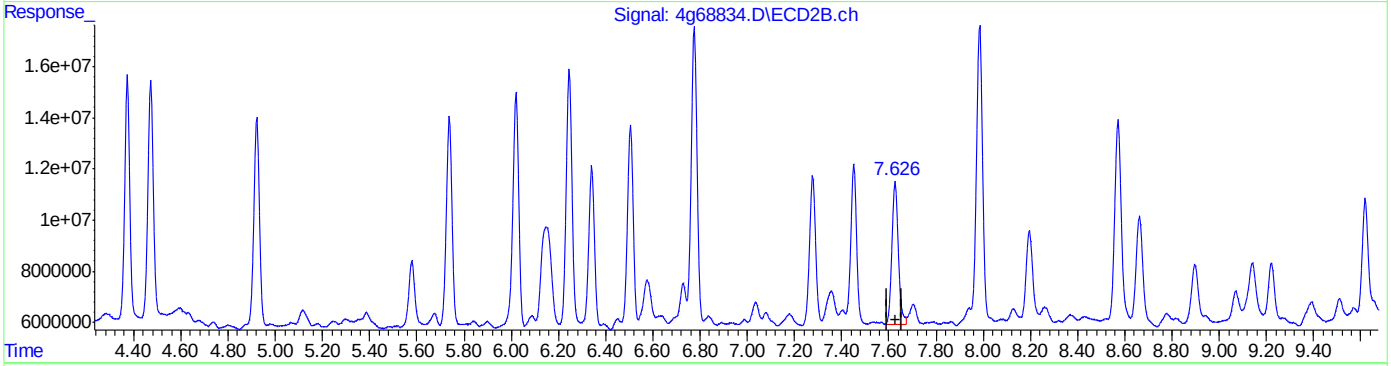
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(17) Endosulfan II (B)
6.280min 16.167 PPB
response 110543105

(17) Endosulfan II #2 (B)
7.626min 14.503 PPB m
response 105749724

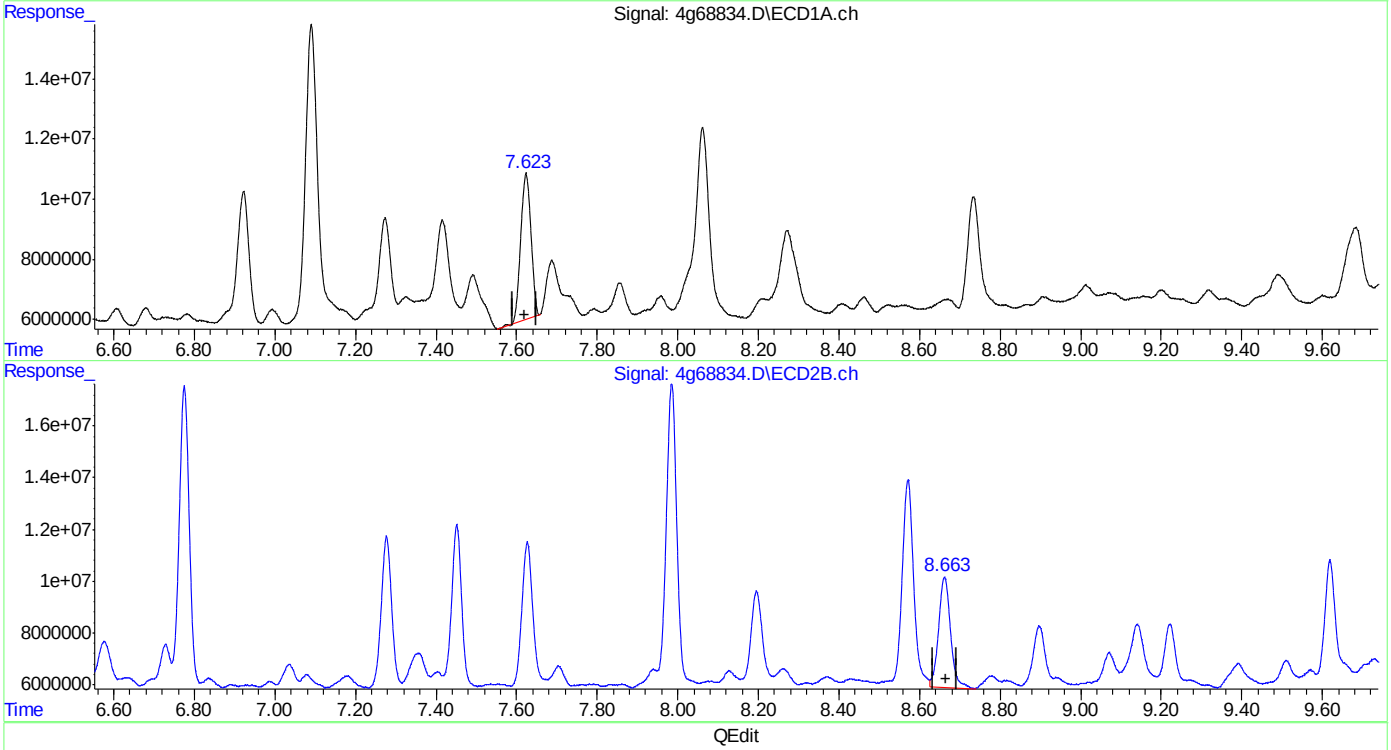
(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:02:32 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(20) Endosulfan Sulfate (B)
7.624min 14.153 PPB
response 86084852

(20) Endosulfan Sulfate #2 (B)
8.662min 14.468 PPB
response 87507928

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
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Integration File signal 1: autoint1.e
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Quant Time: Jun 06 15:02:01 2016
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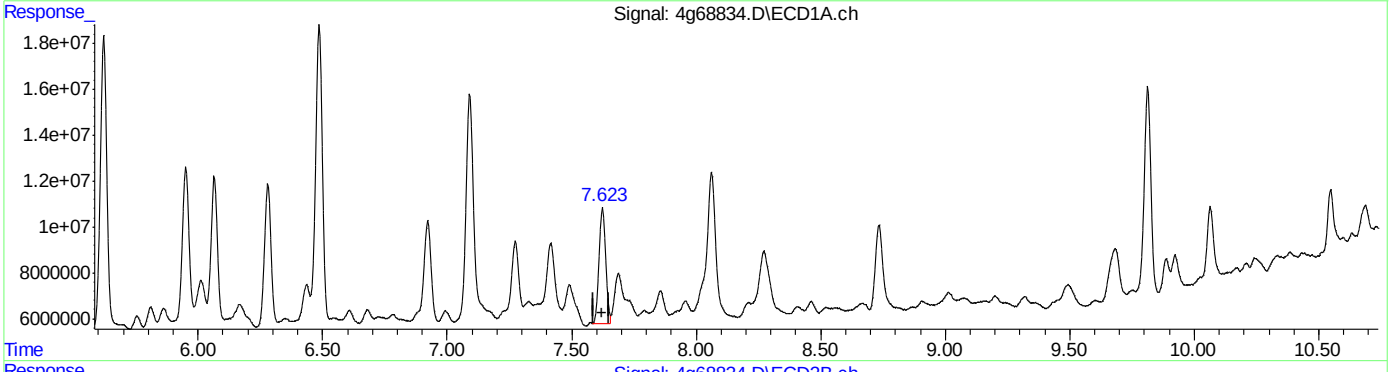
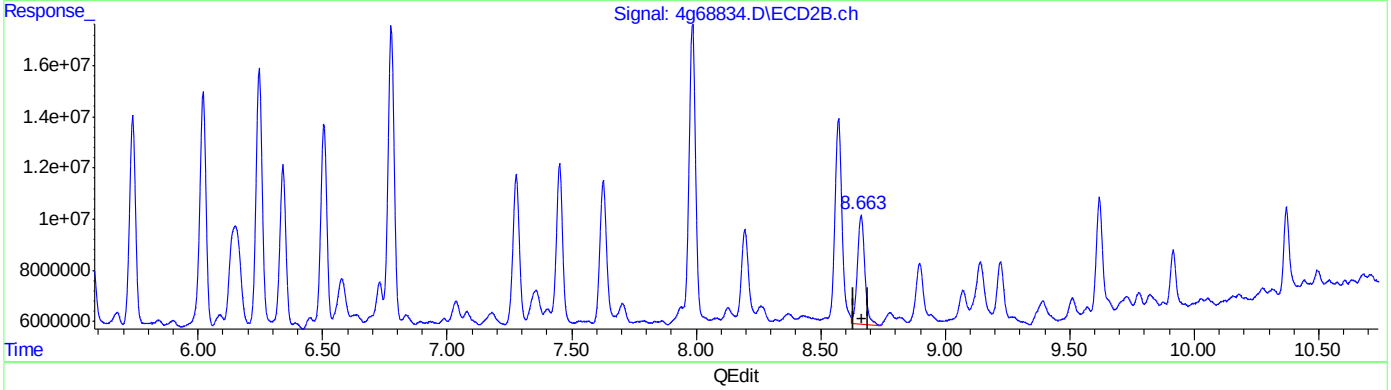
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(20) Endosulfan Sulfate (B)
7.623min 15.451 PPB m
response 93977472

(20) Endosulfan Sulfate #2 (B)
8.662min 14.468 PPB
response 87507928

(+) = Expected Retention Time

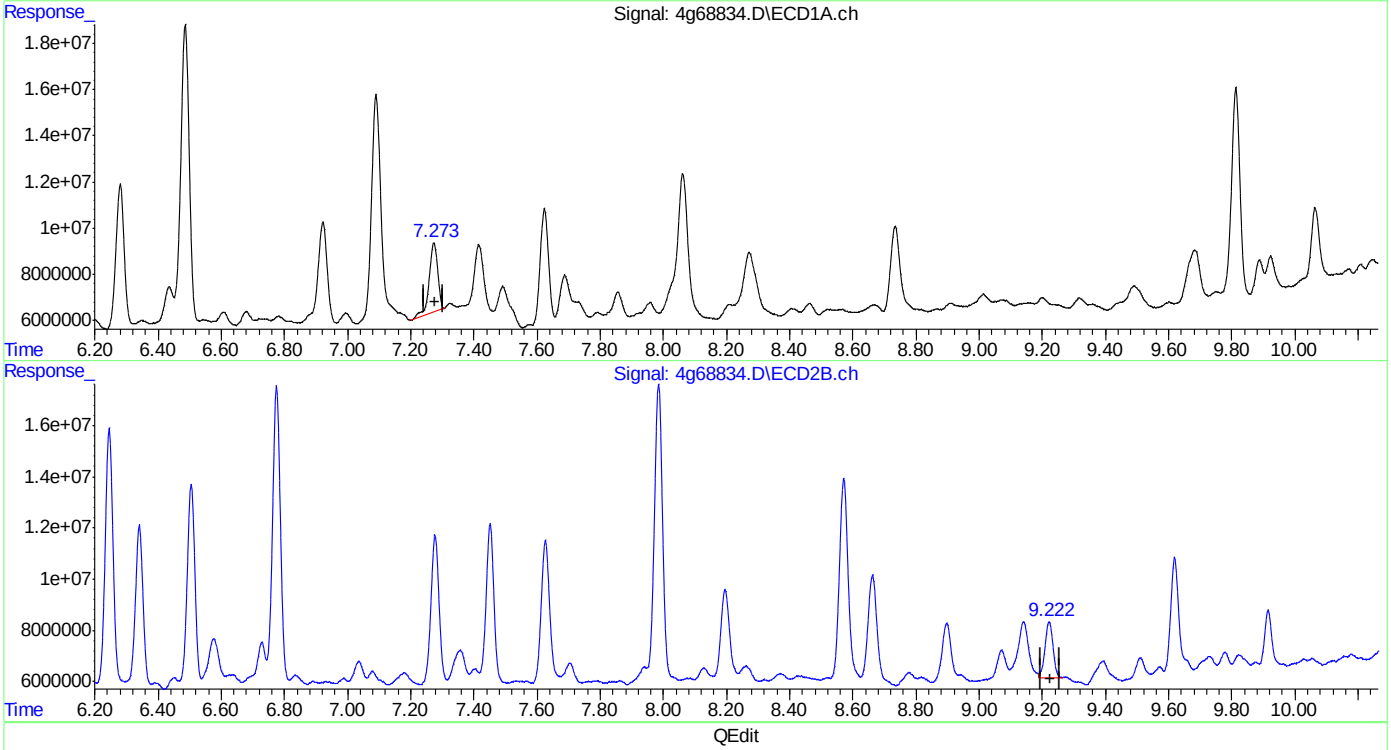
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(21) Methoxychlor (A)
7.274min 16.136 PPB
response 57077495

(21) Methoxychlor #2 (A)
9.222min 11.029 PPB
response 39435991

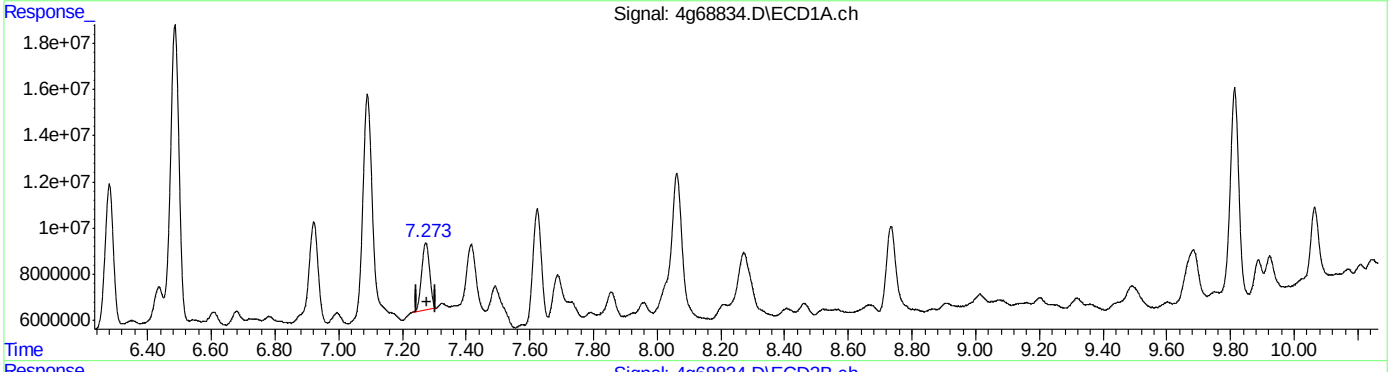
(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:04:27 2016 RPT1

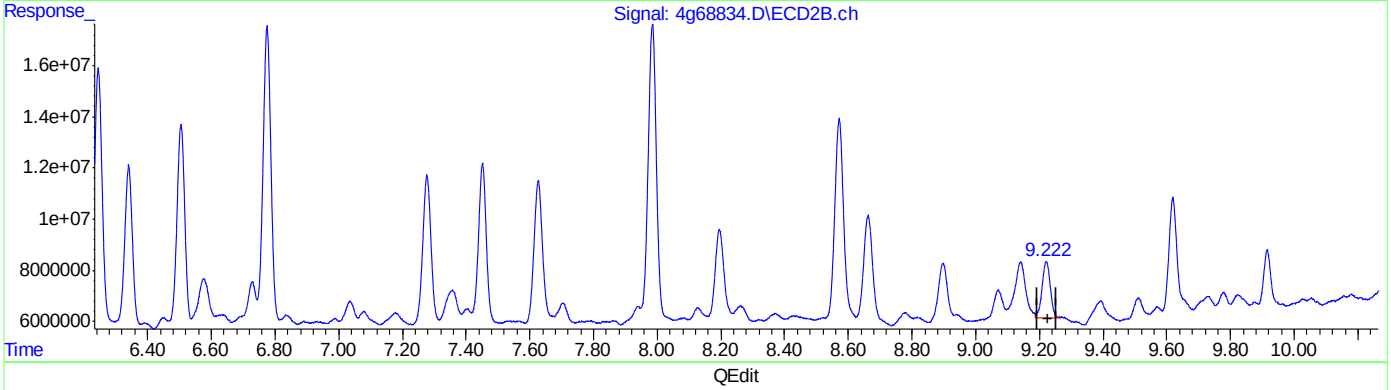
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.273min 14.409 PPB m
response 50969514

(21) Methoxychlor #2 (A)
9.222min 11.029 PPB
response 39435991

(+) = Expected Retention Time

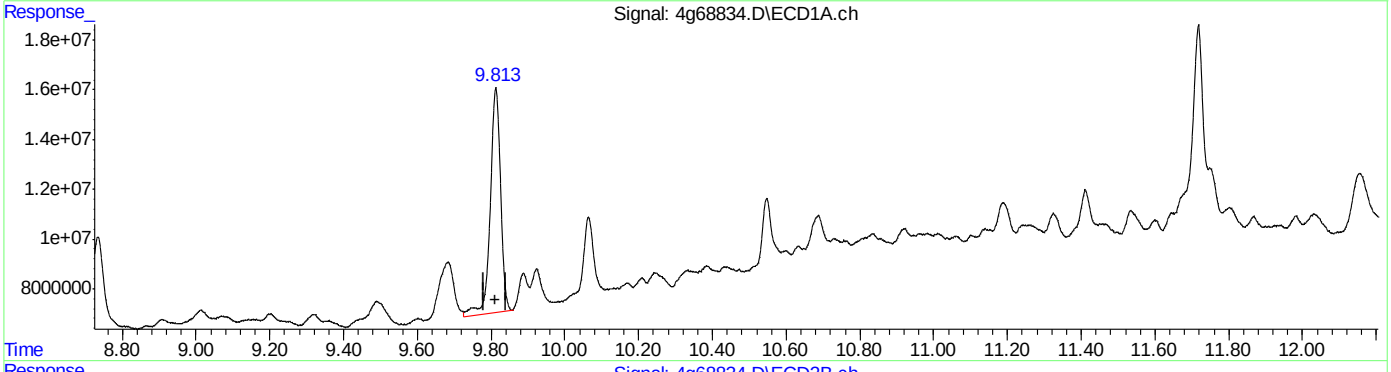
SGS ACCUTEST JC21229

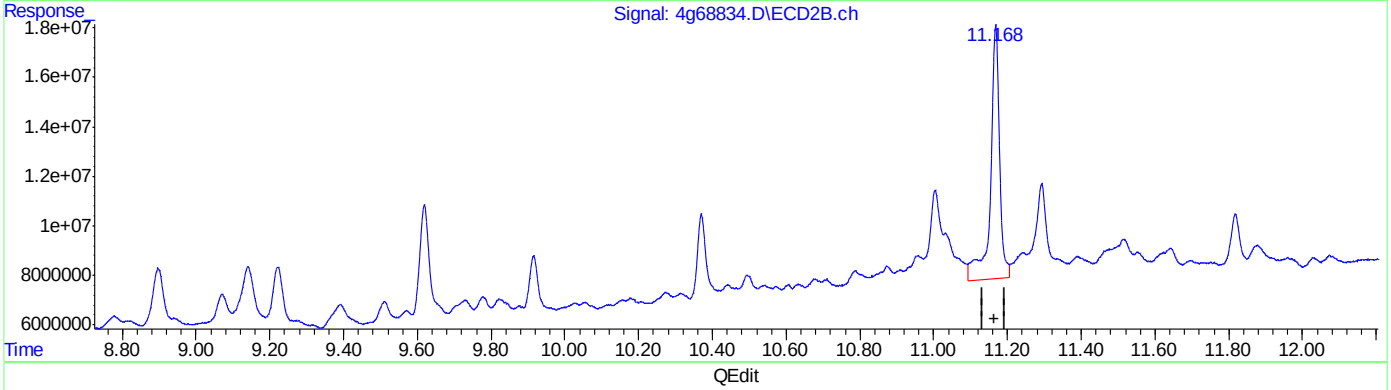
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
9.813min 27.788 PPB
response 176736887

(24) Decachlorobiphenyl #2 (SA)
11.168min 30.958 PPB
response 175431390

(+) = Expected Retention Time
4PST1799.M Mon Jun 06 15:04:48 2016 RPT1

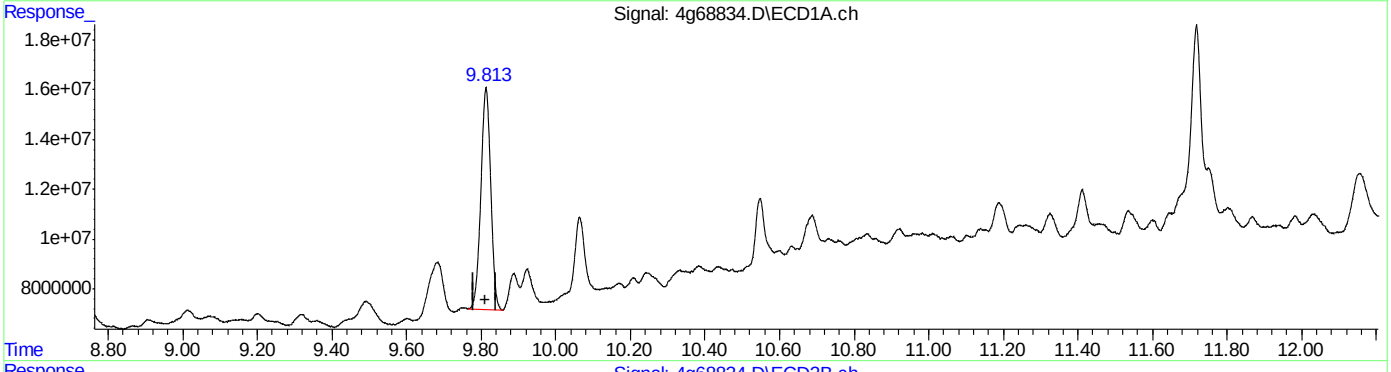
SGS ACCUTEST JC21229

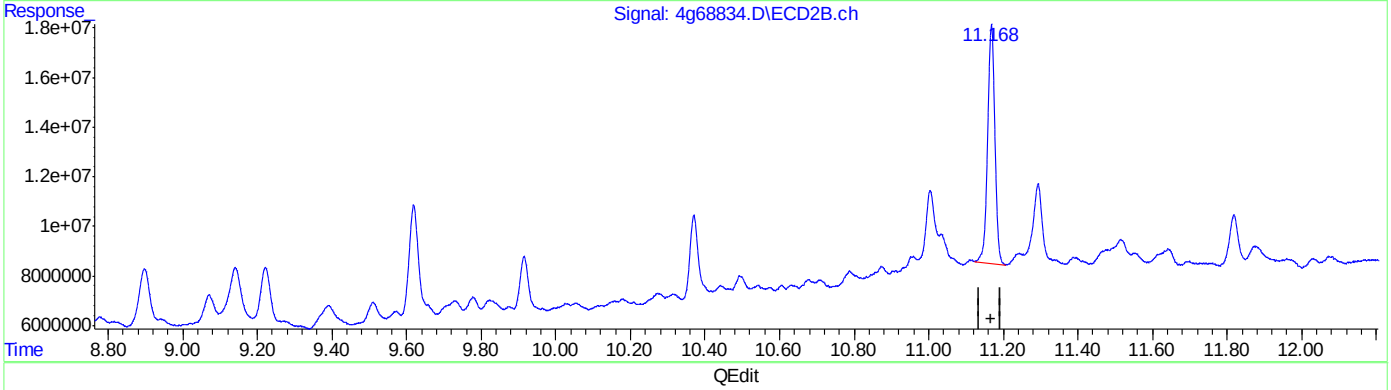
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 5:07 pm
Operator : kristend
Sample : op94393-msd
Misc : op94393,g4g1806,15.9,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 15:02:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:00:12 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
9.813min 25.833 PPB m
response 164298477

(24) Decachlorobiphenyl #2 (SA)
11.168min 22.872 PPB m
response 129607430

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/06/16 12:07

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On : 03 Jun 2016 12:52 pm Operator: kristend
Sample : op94431-ms Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:12 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	168.2E6	1123.5E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.50	168.2E6	1123.5E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.50	168.2E6	1123.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	108.9E6	666.9E6	35.842	33.371
Spiked Amount	40.000	Range	30 - 150	Recovery	=	89.61%	83.43%
24) SA	Decachlorobiphen	9.22	10.66	55844229	213.7E6	13.515	15.217
Spiked Amount	40.000			Recovery	=	33.79%	38.04%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	133.0E6	802.0E6	30.593	26.802
4) MA	gamma-BHC	2.70	3.34	116.2E6	754.2E6	28.603	27.846m
5) MA	Heptachlor	3.19	3.89	86693665	518.1E6	20.967	20.495
6) B	beta-BHC	2.78	3.42	54251302	359.6E6	27.908	28.958
7) B	delta-BHC	2.97	3.80	113.6E6	752.5E6	28.526	27.790
8) MB	Aldrin	3.52	4.33	62542840	434.8E6	16.597	18.798
9) B	Heptachlor Epoxi	4.23	5.12	104.2E6	613.2E6	28.059	29.631
10) B	gamma-Chlordane	4.39	5.40	76003832	487.7E6	19.884	23.072
11) B	alpha-Chlordane	4.56	5.62	78105392	453.5E6	20.602	21.664
12) A	Endosulfan I	4.74	5.71	97707156	560.2E6	26.789	29.015
13) B	4,4'-DDE	4.67	5.89	48783756	297.7E6	12.764	14.339
14) MA	Dieldrin	5.06	6.13	101.7E6	604.4E6	26.789	27.880
15) MA	Endrin	5.38	6.63	102.7E6	589.2E6	29.834	30.883
16) A	4,4'-DDD	5.50	6.82	56175048	361.1E6	18.713	21.118
17) B	Endosulfan II	5.70	6.97	102.0E6	570.7E6	28.260	29.224
18) MA	4,4'-DDT	5.91	7.34	36378098	211.3E6	11.125	12.589
19) B	Endrin Aldehyde	6.33	7.54	86349618	474.8E6	30.300	31.688
20) B	Endosulfan Sulfa	7.01	8.00	91332547	497.1E6	26.369	29.092
21) A	Methoxychlor	6.69	8.58	31516868	166.3E6	16.275	18.450
23) B	Endrin Ketone	7.44	8.94	110.5E6	575.0E6	28.184	30.016m

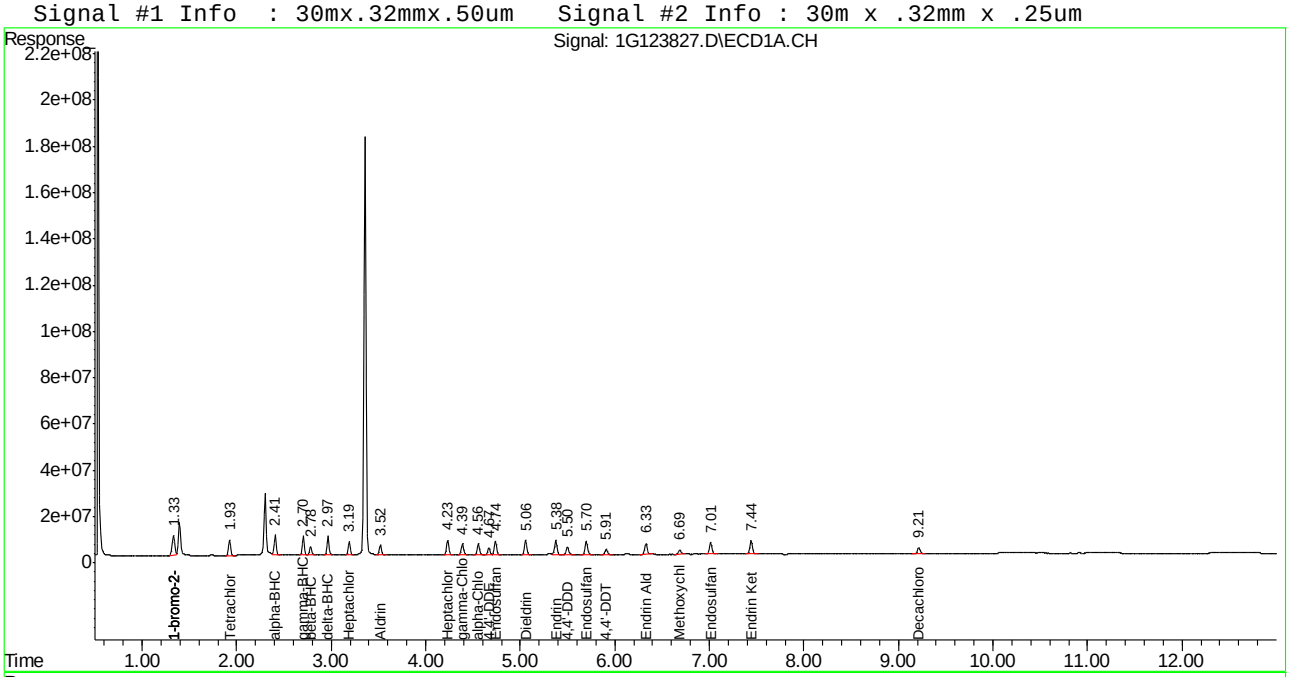
(f)=RT Delta > 1/2 Window (m)=manual int.

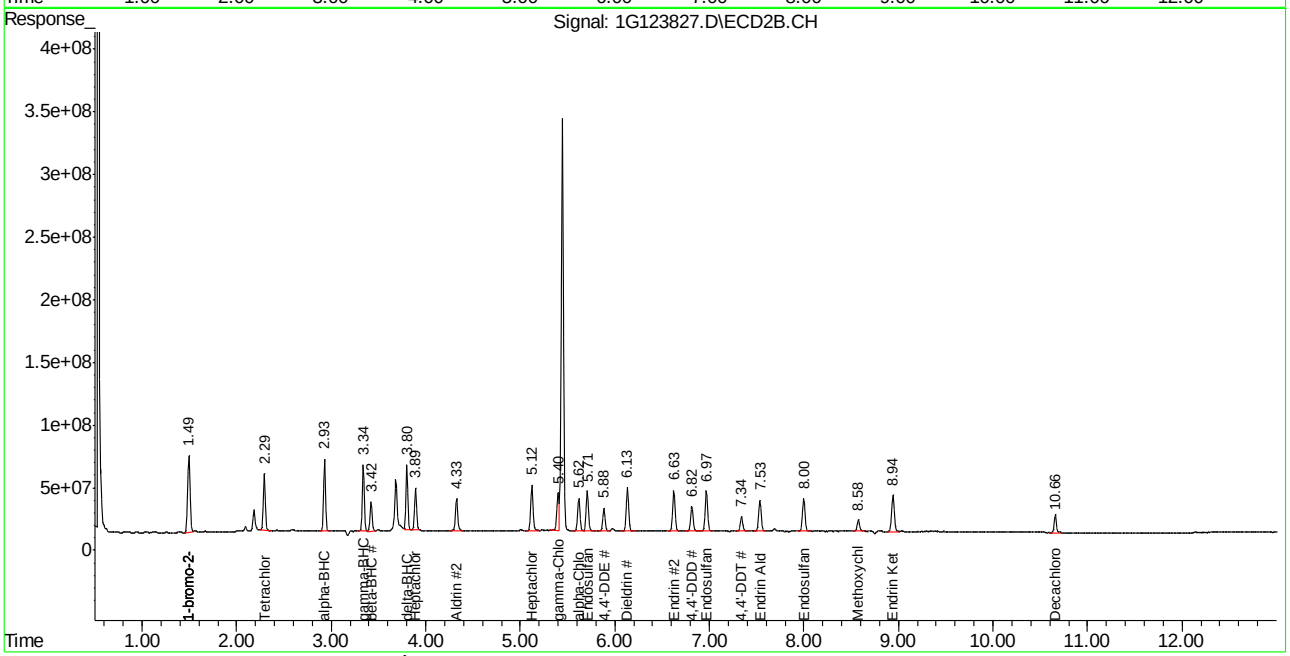
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On : 03 Jun 2016 12:52 pm Operator: kristend
Sample : op94431-ms Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:12 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

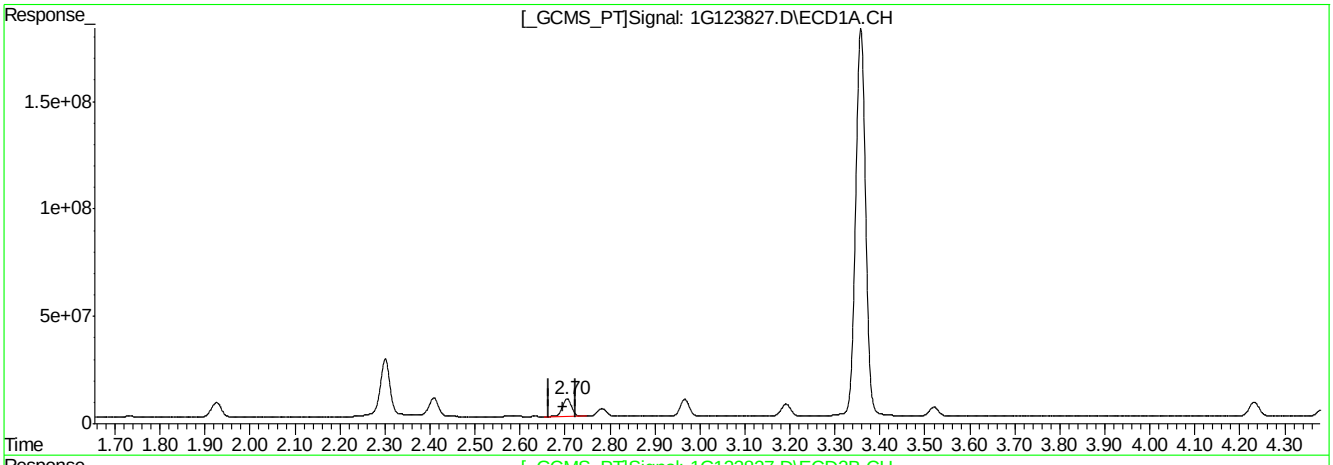
Sample Number:	OP94431-MS	**Method:**	SW846 8081B
Lab FileID:	1G123827.D	**Analyst approved:**	06/03/16 18:22 Dhara Saparia
Injection Time:	06/03/16 12:52	**Supervisor approved:**	06/06/16 12:07 Gwendolyn Burns

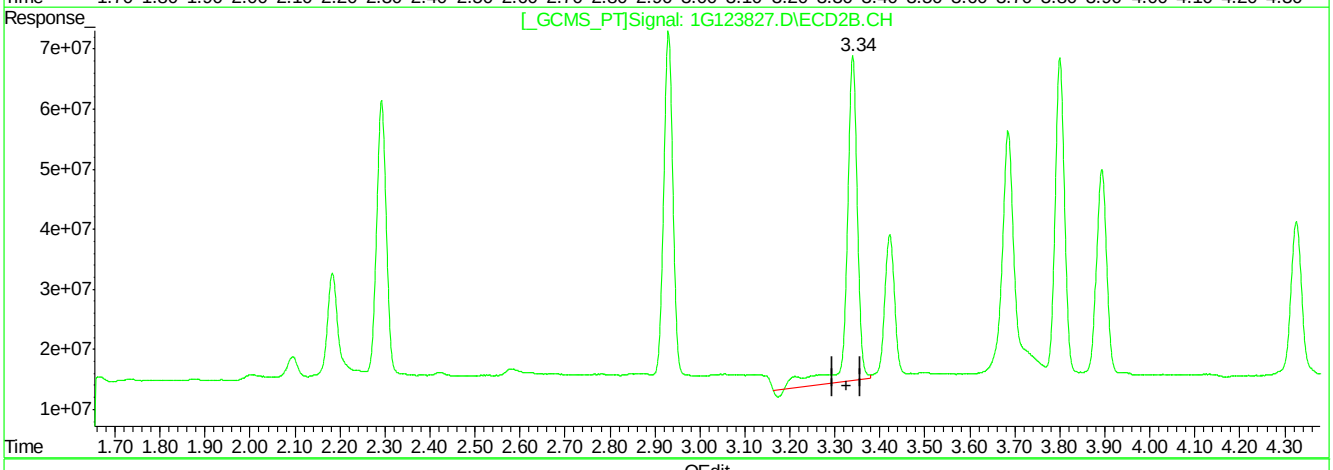
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	2	3.34	Poor instrument integration
Endrin ketone	53494-70-5	2	8.94	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 28.603PPB

response 116188402

(4) gamma-BHC #2 (MA)

3.34min 32.578PPB

response 882391987

(+) = Expected Retention Time

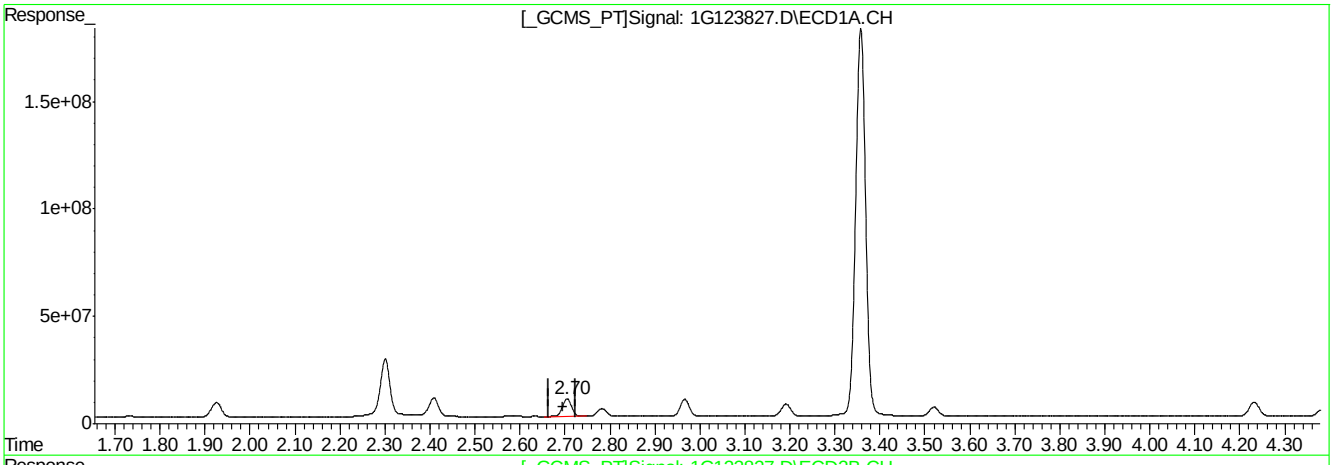
1G123827.D 1PST3988.M Fri Jun 03 17:11:40 2016 RPT1

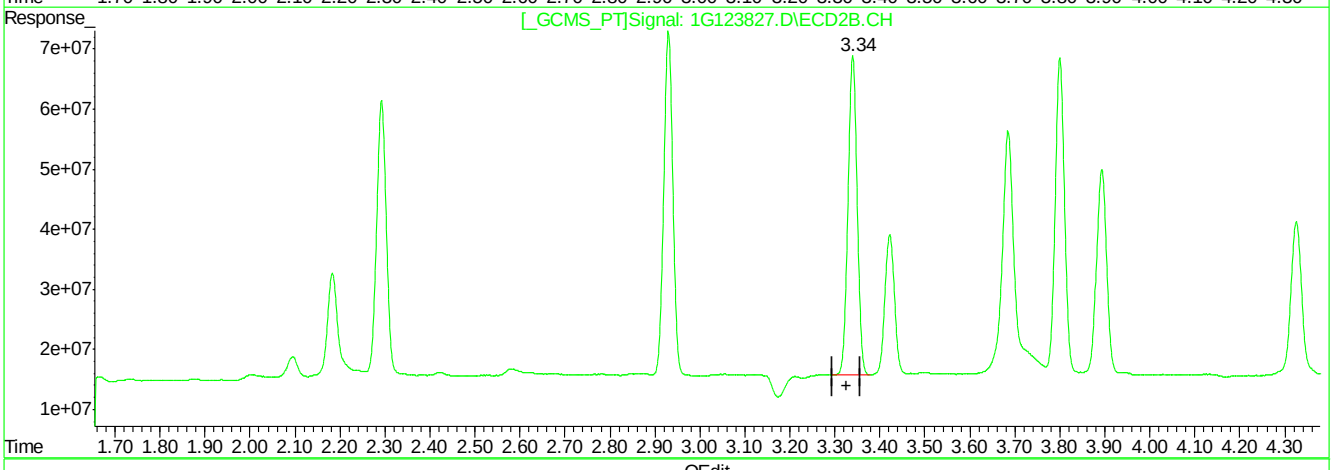
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 28.603PPB

response 116188402

(4) gamma-BHC #2 (MA)

3.34min 27.846PPB m

response 754217876

(+) = Expected Retention Time

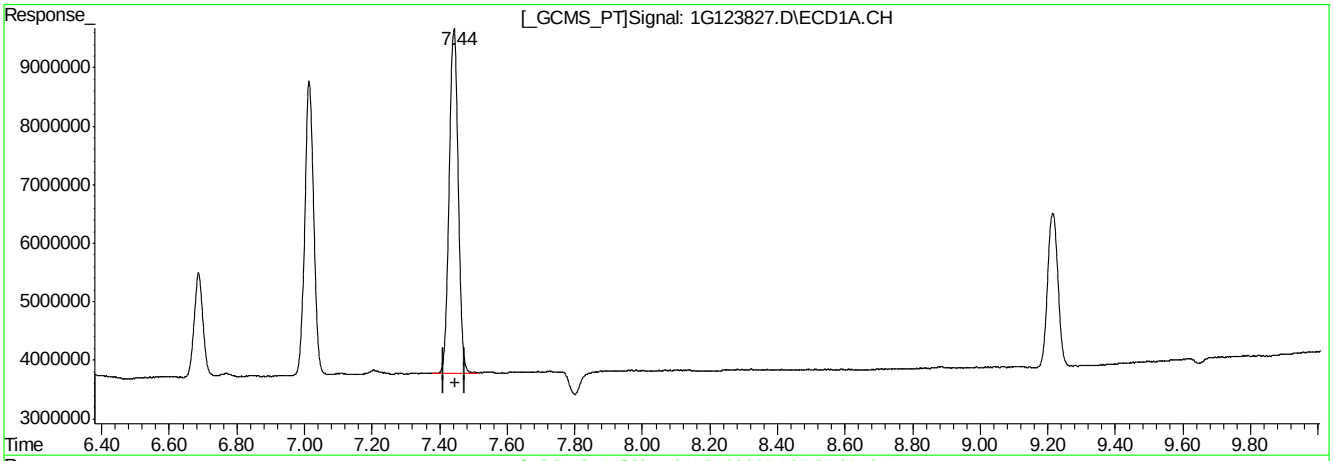
1G123827.D 1PST3988.M Fri Jun 03 17:11:48 2016 RPT1

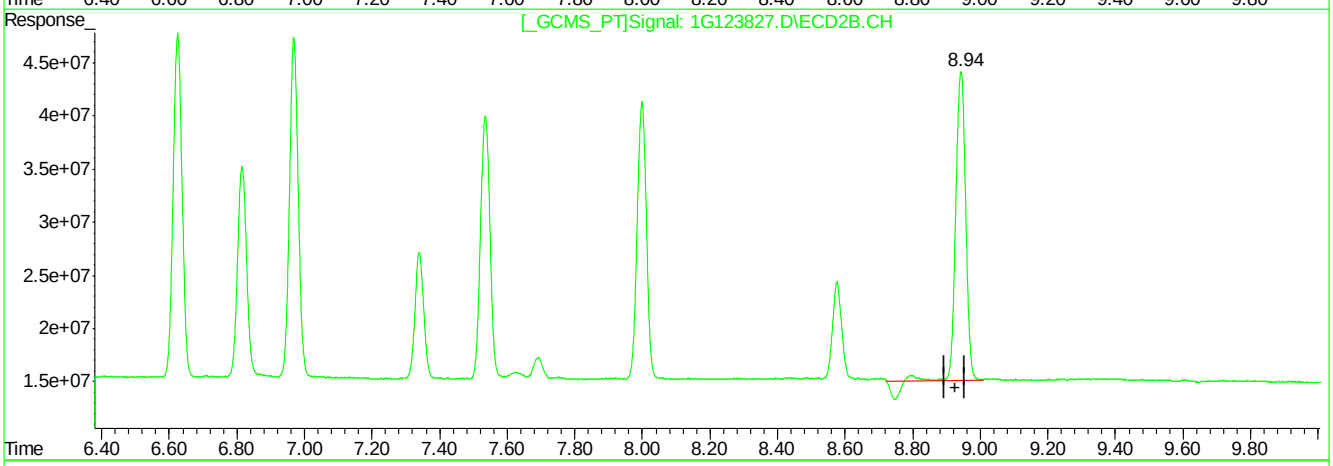
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 28.184PPB

response 110459160

(23) Endrin Ketone #2 (B)

8.94min 29.612PPB

response 567211007

(+) = Expected Retention Time

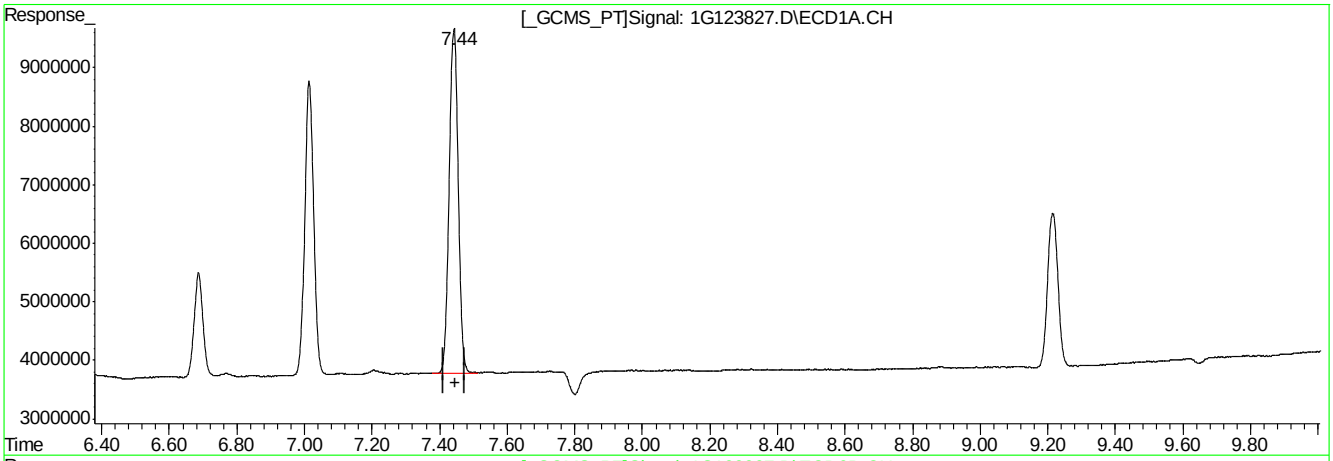
1G123827.D 1PST3988.M Fri Jun 03 17:12:05 2016 RPT1

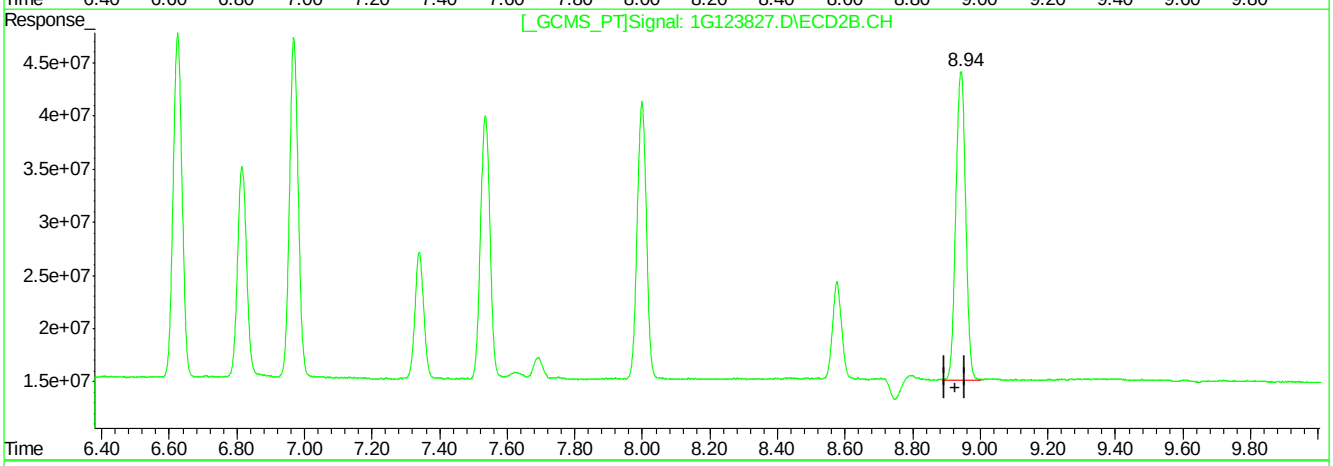
11.4.3.4 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123827.D\ECD2B.CH
Acq On    : 03 Jun 2016  12:52 pm                    Operator: kristend
Sample    : op94431-ms                               Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:11 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 28.184PPB

response 110459160

(23) Endrin Ketone #2 (B)

8.94min 30.016PPB m

response 574965213

(+) = Expected Retention Time

1G123827.D 1PST3988.M Fri Jun 03 17:12:13 2016 RPT1

11.4.3.5 11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/06/16 12:07

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On : 6-3-16 01:10:00 PM Operator: kristend
Sample : op94431-msd Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:13 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	162.6E6	1099.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	162.6E6	1099.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	162.6E6	1099.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	111.2E6	679.0E6	37.838	34.730
Spiked Amount	40.000	Range	30 - 150	Recovery	=	94.60%	86.83%
24) SA	Decachlorobiphen	9.21	10.66	52254153	201.1E6	13.078	14.642
Spiked Amount	40.000			Recovery	=	32.69%	36.60%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	125.0E6	776.4E6	29.746	26.521
4) MA	gamma-BHC	2.70	3.34	109.9E6	718.6E6	27.974	27.121m
5) MA	Heptachlor	3.19	3.89	85222827	512.0E6	21.315	20.701
6) B	beta-BHC	2.78	3.42	50375194	346.4E6	26.799	28.517
7) B	delta-BHC	2.97	3.80	107.0E6	703.4E6	27.790	26.553
8) MB	Aldrin	3.52	4.33	62269360	437.4E6	17.089	19.329
9) B	Heptachlor Epoxi	4.23	5.12	99372432	590.3E6	27.671	29.156
10) B	gamma-Chlordane	4.39	5.40	75480286	466.6E6	20.422	22.559
11) B	alpha-Chlordane	4.56	5.62	75697305	442.1E6	20.649	21.586
12) A	Endosulfan I	4.74	5.71	93015315	534.4E6	26.374	28.292
13) B	4,4'-DDE	4.67	5.88	48965973	300.9E6	13.249	14.811
14) MA	Dieldrin	5.06	6.13	96913536	578.4E6	26.390	27.273
15) MA	Endrin	5.38	6.63	97670794	565.7E6	29.341	30.312
16) A	4,4'-DDD	5.50	6.82	54498561	357.7E6	18.775	21.381
17) B	Endosulfan II	5.70	6.97	95517660	542.5E6	27.381	28.396
18) MA	4,4'-DDT	5.91	7.34	37663195	219.2E6	11.911	13.355
19) B	Endrin Aldehyde	6.33	7.54	80672177	446.6E6	29.275	30.466
20) B	Endosulfan Sulfa	7.02	8.00	85491877	469.1E6	25.525	28.062
21) A	Methoxychlor	6.69	8.58	31639900	169.7E6	16.897	19.249
23) B	Endrin Ketone	7.44	8.94	102.6E6	541.3E6	27.077	28.884

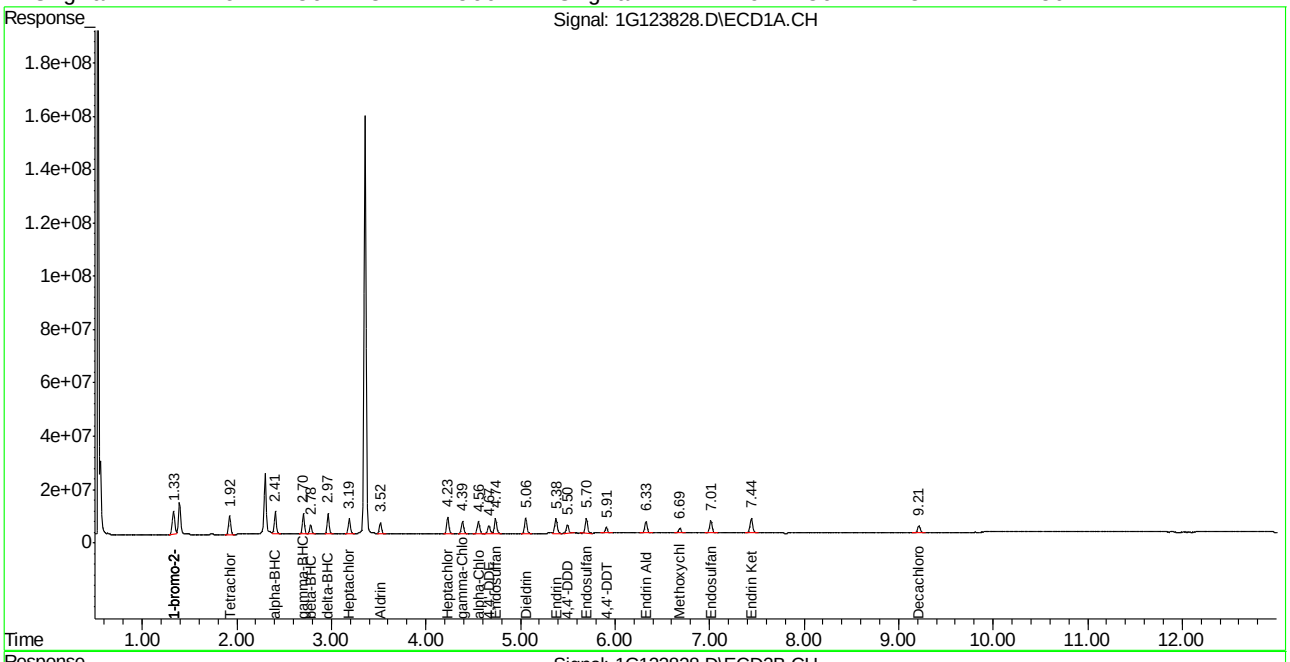
(f)=RT Delta > 1/2 Window (m)=manual int.

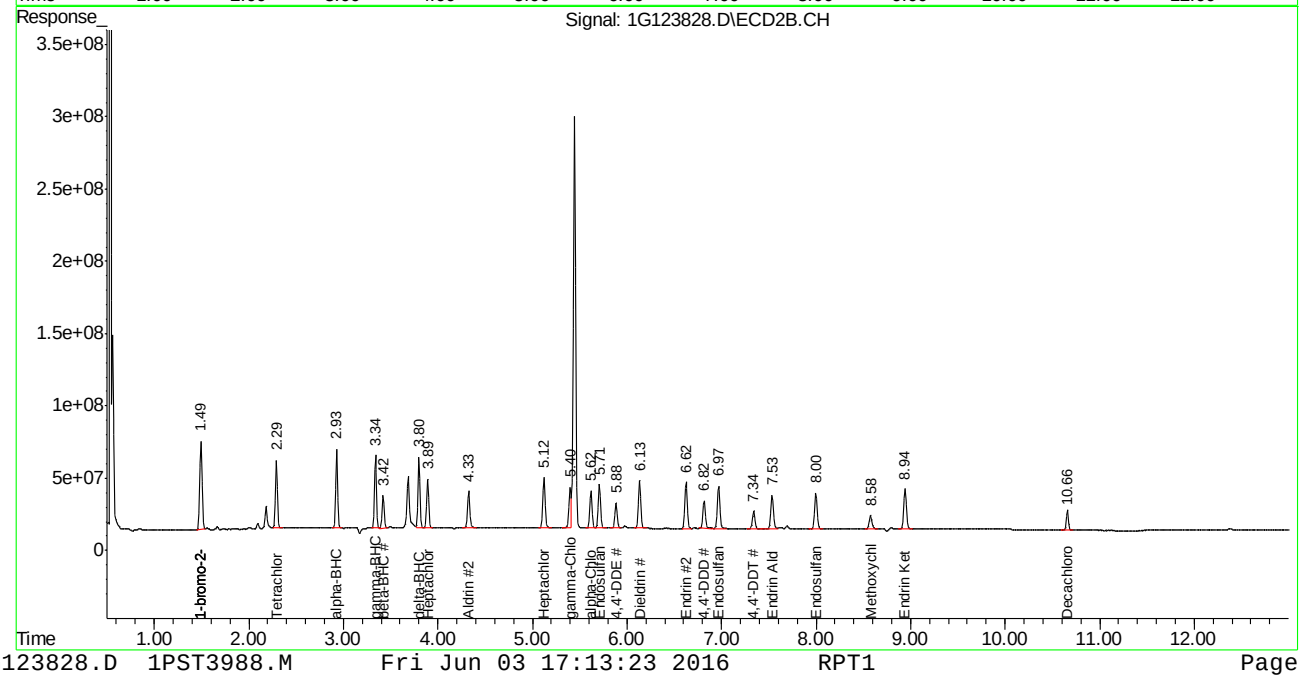
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On : 6-3-16 01:10:00 PM Operator: kristend
Sample : op94431-msd Inst : GC1G
Misc : op94431,g1g4003,455,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:13 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

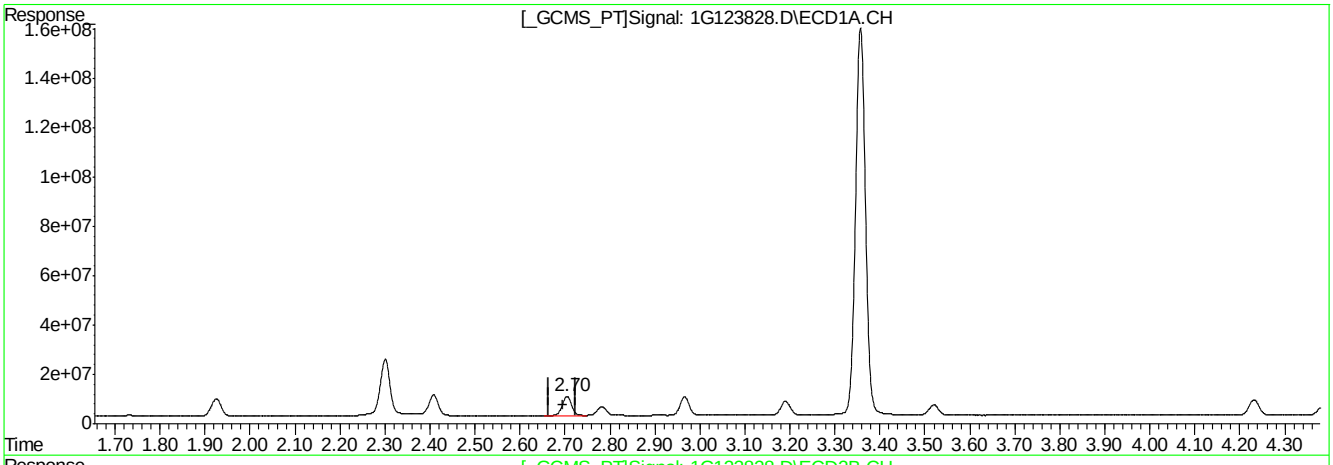
Sample Number:	OP94431-MSD	**Method:**	SW846 8081B
Lab FileID:	1G123828.D	**Analyst approved:**	06/03/16 18:22 Dhara Saparia
Injection Time:	06/03/16 13:10	**Supervisor approved:**	06/06/16 12:07 Gwendolyn Burns

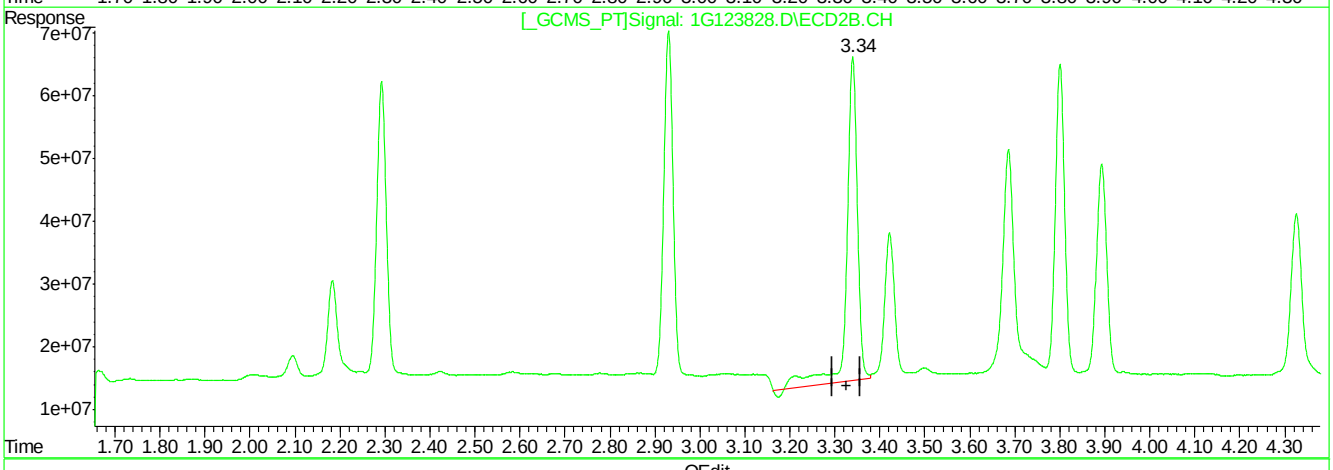
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	2	3.34	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On    : 6-3-16 01:10:00 PM                      Operator: kristend
Sample    : op94431-msd                             Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:12 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 27.974PPB

response 109880140

(4) gamma-BHC #2 (MA)

3.34min 32.440PPB

response 859573381

(+) = Expected Retention Time

1G123828.D 1PST3988.M Fri Jun 03 17:12:49 2016 RPT1

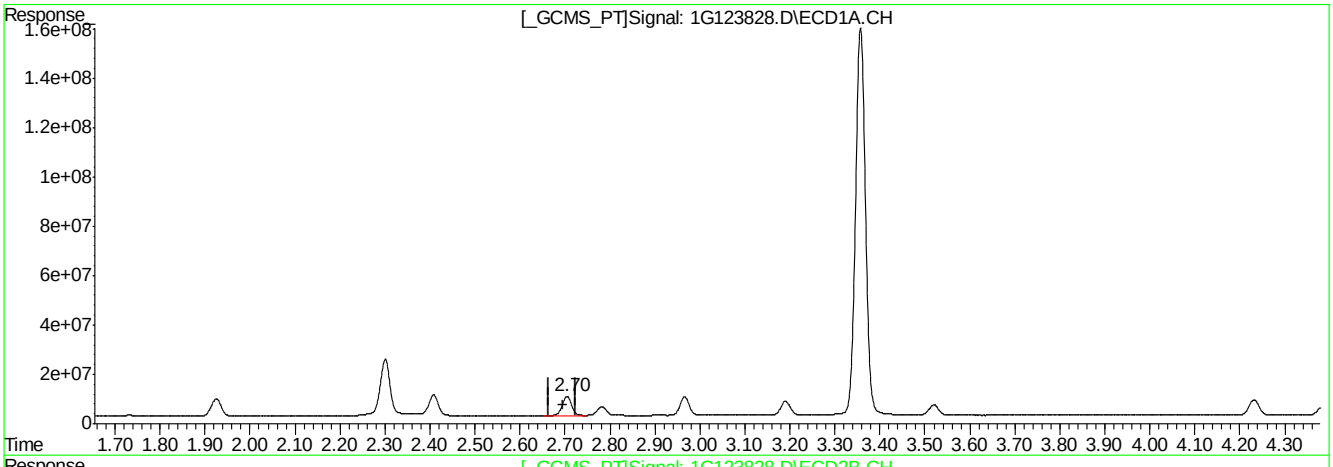
11.4.4.2

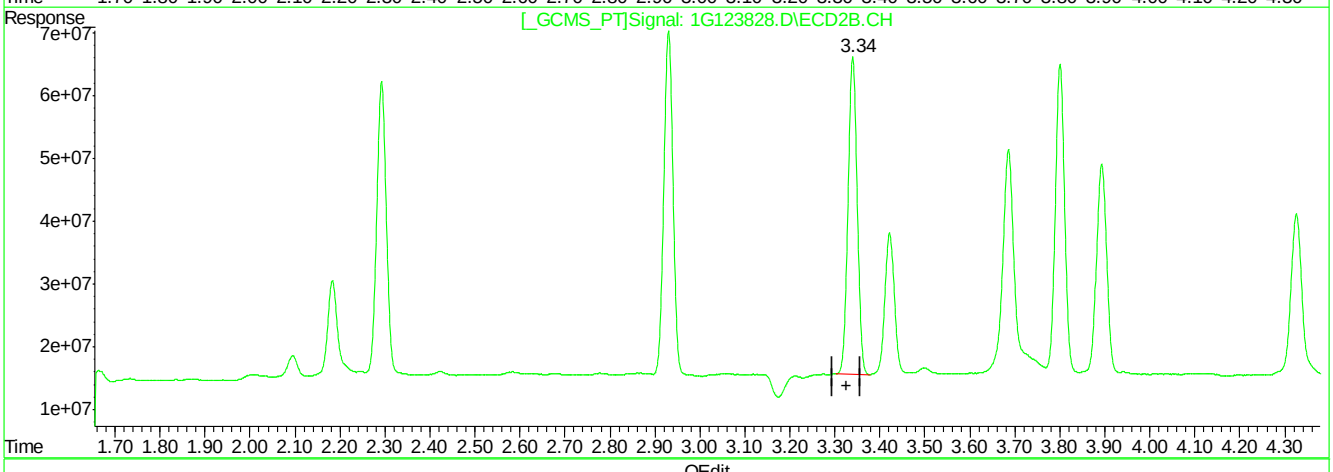
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123828.D\ECD2B.CH
Acq On    : 6-3-16 01:10:00 PM                      Operator: kristend
Sample    : op94431-msd                             Inst    : GC1G
Misc      : op94431,g1g4003,455,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 17:12 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.70min 27.974PPB

response 109880140

(4) gamma-BHC #2 (MA)

3.34min 27.121PPB m

response 718648262

(+) = Expected Retention Time

1G123828.D 1PST3988.M Fri Jun 03 17:12:57 2016 RPT1

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD2B.CH
Acq On : 5-16-16 09:09:02 AM Operator: rebeccak
Sample : ddt Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3985.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	1.33	1.49	121.1E6	841.9E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	121.1E6	841.9E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	121.1E6	841.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	43640483	307.2E6	22.875	22.147
Spiked Amount	40.000	Range	30 - 150	Recovery	=	57.19%	55.37%
24) SA	Decachlorobiphen	9.23	10.68	60882083	222.9E6	22.606	22.898
Spiked Amount	40.000			Recovery	=	56.52%	57.25%
	Target Compounds						
13) B	4,4'-DDE	4.67	5.90	837634	4492810	0.315m	0.310m
15) MA	Endrin	5.39	6.64	129.2E6	661.1E6	52.441	57.352
16) A	4,4'-DDD	5.50	6.83	1011043	7386221	0.468m	0.586m
18) MA	4,4'-DDT	5.92	7.36	267.8E6	1336.8E6	113.949	118.863
19) B	Endrin Aldehyde	6.34	7.55	1371237	7932699	0.719m	0.779m
23) B	Endrin Ketone	7.45	8.97	6408544	33500252	2.819	2.736

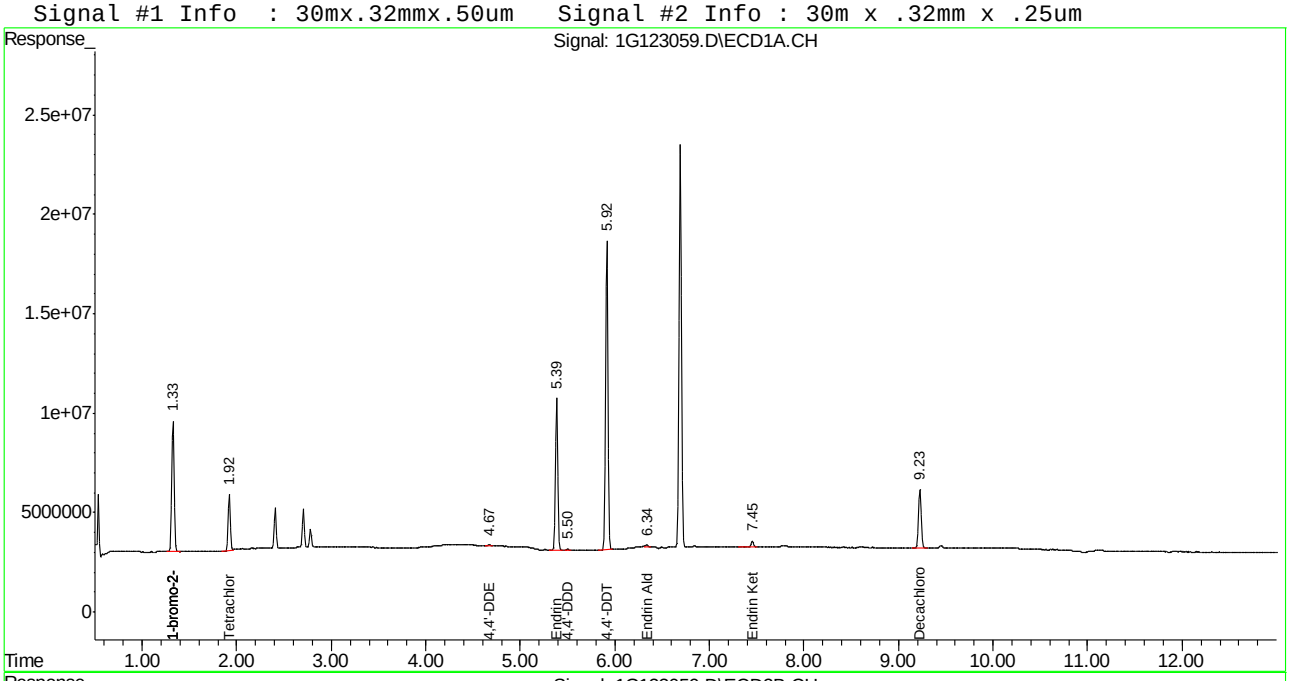
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123059.D 1PST3988.M Mon May 16 15:17:21 2016 RPT1 Page 1

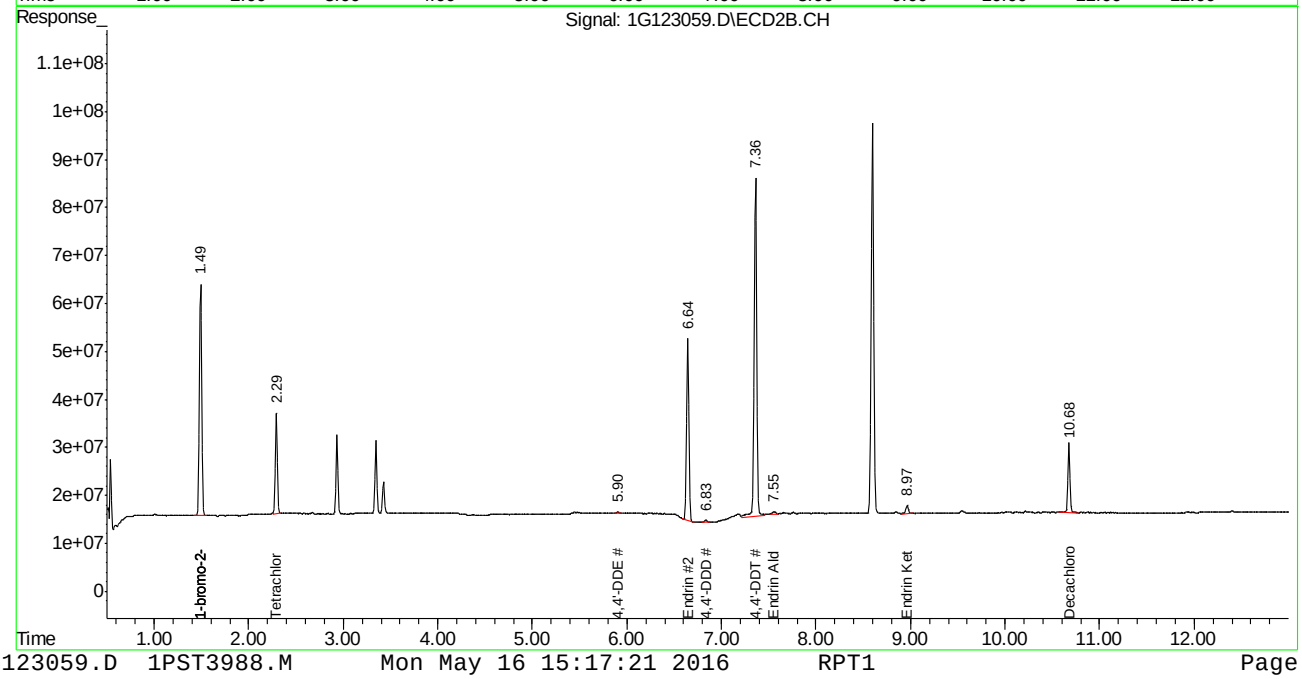
Quantitation Report (QT Reviewed)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123059.D\ECD2B.CH
Acq On    : 5-16-16 09:09:02 AM                    Operator: rebeccak
Sample    : ddt                                    Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 13:05 2016  Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3985.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 JC21229

Manual Integration Approval Summary

Sample Number:	G1G3988-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123059.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 09:09	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.67	Poor instrument integration
4,4'-DDD	72-54-8	1	5.50	Poor instrument integration
4,4'-DDE	72-55-9	2	5.90	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.34	Poor instrument integration
4,4'-DDD	72-54-8	2	6.83	Poor instrument integration
Endrin aldehyde	7421-93-4	2	7.55	Poor instrument integration

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/01/16 15:21

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On : 31 May 2016 10:14 am Operator: rebeccak
Sample : ddt Inst : GC1G
Misc : op94251,g1g4000,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 12:03 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	206.7E6	1318.8E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	206.7E6	1318.8E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	206.7E6	1318.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.91	2.28	66334224	423.7E6	17.754m	18.061
Spiked Amount	40.000	Range	30 - 150	Recovery	=	44.39%	45.15%
24) SA	Decachlorobiphen	9.21	0.00	83621865	0	16.462	N.D.
Spiked Amount	40.000			Recovery	=	41.15%	0.00%
	Target Compounds						
13) B	4,4'-DDE	4.66	5.87f	5652561	37119886	1.203m	1.523m
15) MA	Endrin	5.37	6.61f	196.6E6	994.5E6	46.459m	44.405m
16) A	4,4'-DDD	5.49	6.80f	6419344	38298039	1.740m	1.908m
18) MA	4,4'-DDT	5.90	7.32f	357.3E6	1680.3E6	88.881	85.299m
19) B	Endrin Aldehyde	6.32	7.52f	2246826	9903952	0.641m	0.563m
23) B	Endrin Ketone	7.44	8.92f	7145465	33743189	1.483m	1.501m

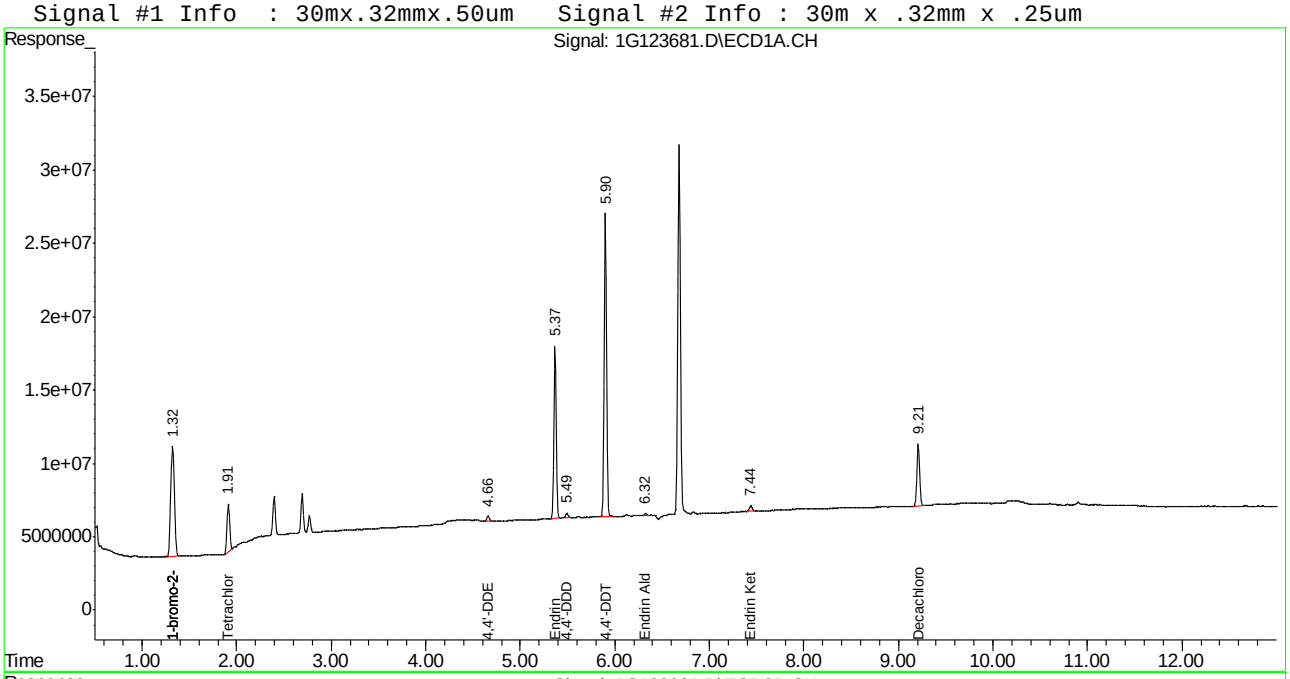
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123681.D 1PST3988.M Wed Jun 01 15:01:26 2016 RPT1 Page 1

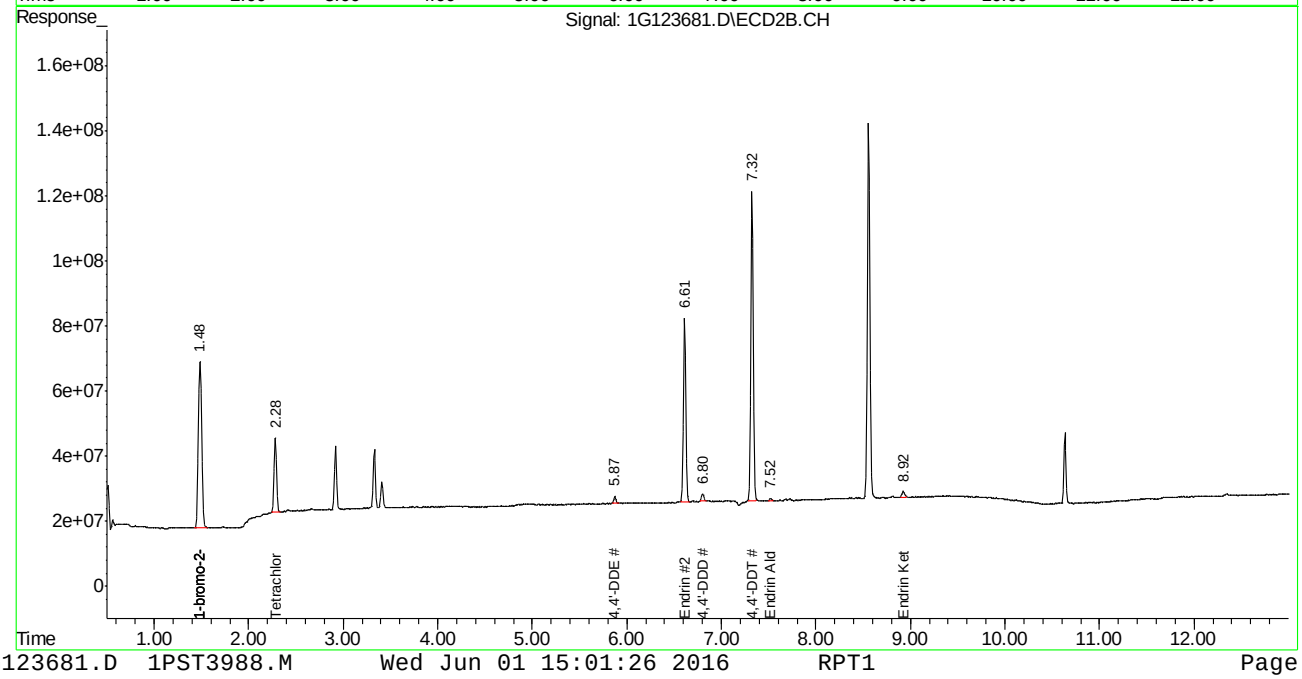
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On : 31 May 2016 10:14 am Operator: rebeccak
Sample : ddt Inst : GC1G
Misc : op94251,g1g4000,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 12:03 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

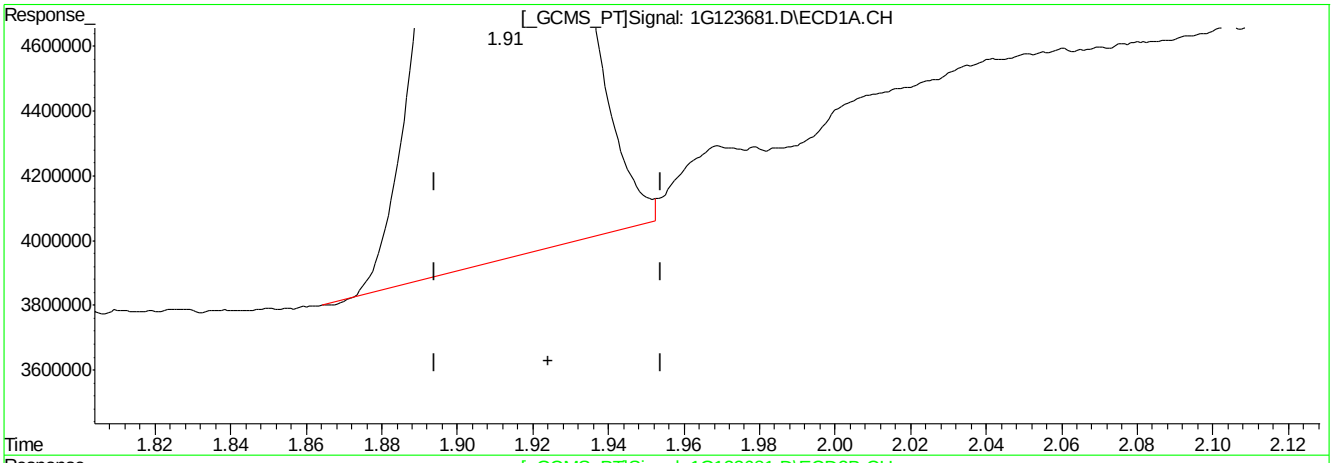
Sample Number: G1G4000-DDT
Lab FileID: 1G123681.D
Injection Time: 05/31/16 10:14
Method: SW846 8081B
Analyst approved: 05/31/16 12:46 Kristen Drake
Supervisor approved: 06/01/16 15:21 Gwendolyn Burns

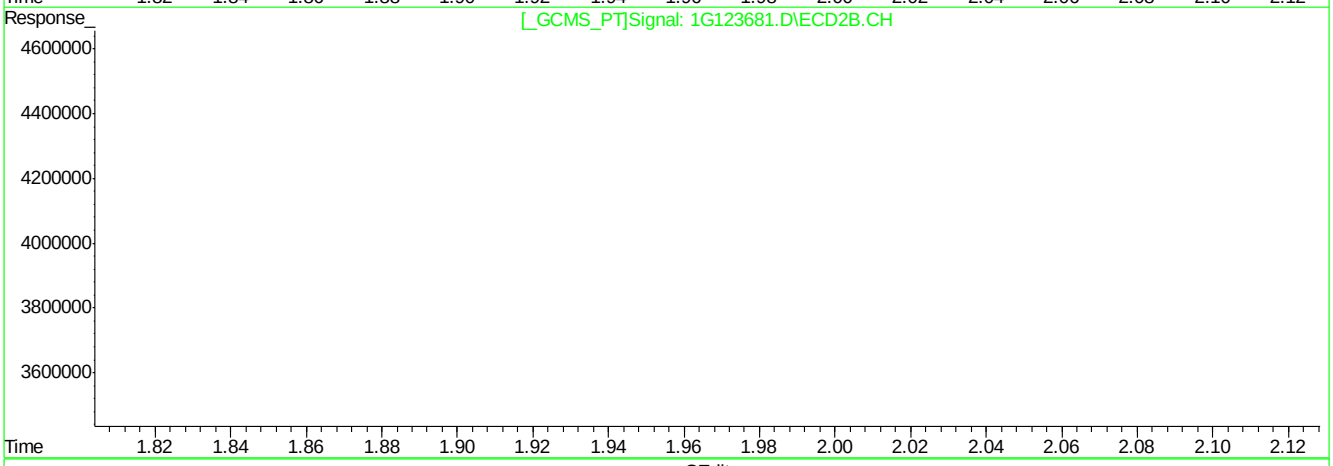
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.91	Poorly defined baseline
4,4'-DDE	72-55-9	1	4.66	Poorly defined baseline
Endrin	72-20-8	1	5.37	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.49	Poorly defined baseline
4,4'-DDE	72-55-9	2	5.87	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.32	Poorly defined baseline
Endrin	72-20-8	2	6.61	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.80	Poorly defined baseline
4,4'-DDT	50-29-3	2	7.32	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.44	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	7.52	Poorly defined baseline
Endrin ketone	53494-70-5	2	8.92	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.91min 18.185PPB

response 67945741

(2) Tetrachloro-m-xylene #2 (SAB)

2.28min 18.061PPB

response 423728720

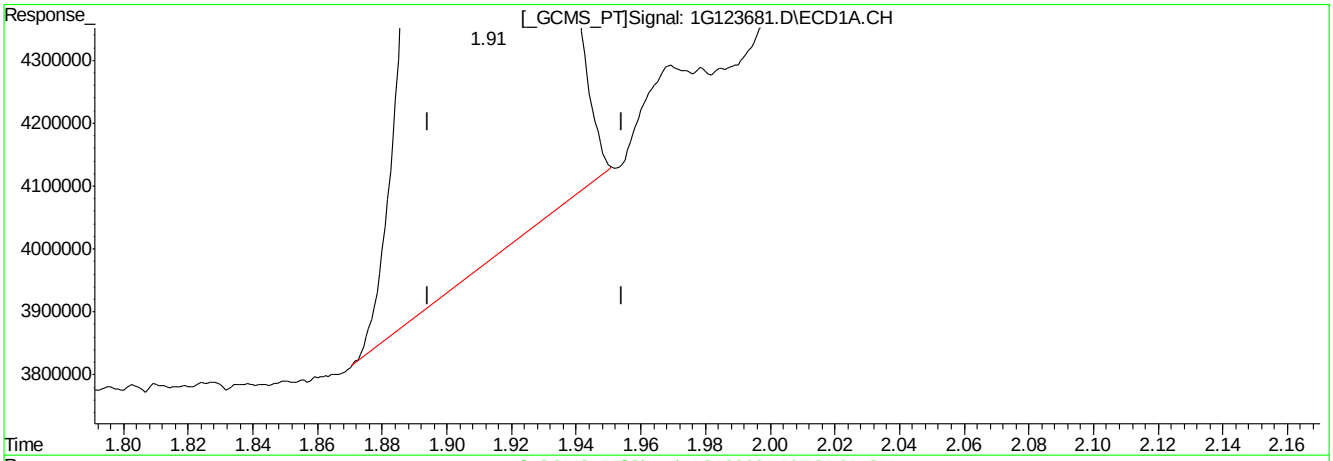
(+) = Expected Retention Time

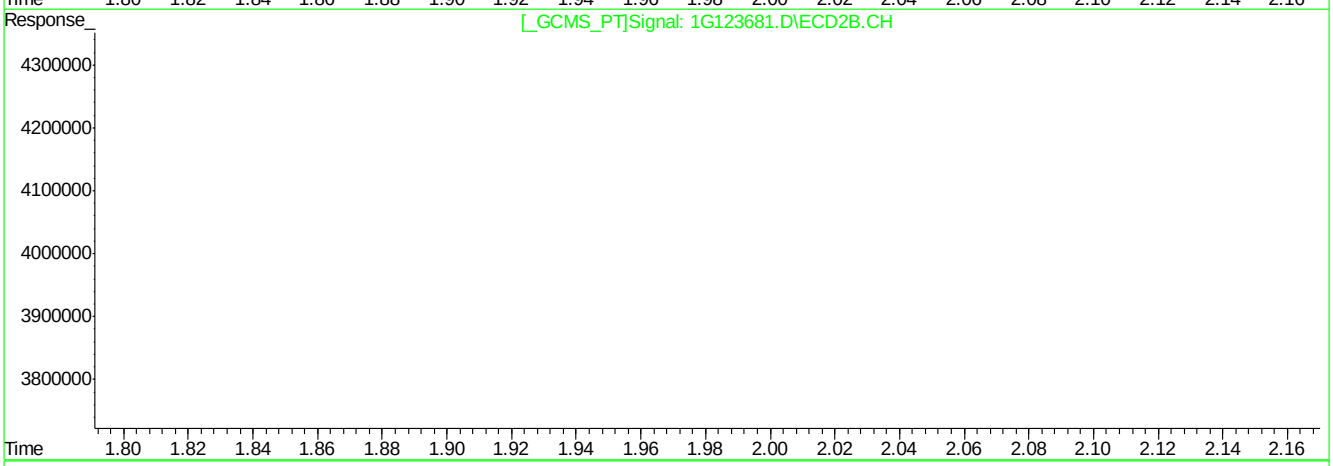
1G123681.D 1PST3988.M Tue May 31 11:54:38 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.91min 17.754PPB m

response 66334224

(2) Tetrachloro-m-xylene #2 (SAB)

2.28min 18.061PPB

response 423728720

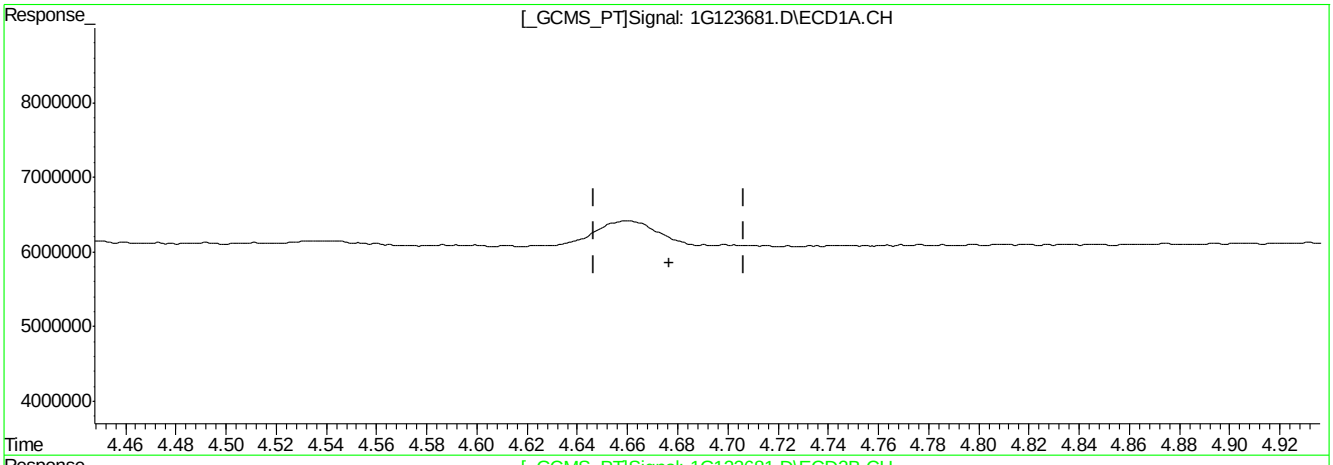
(+) = Expected Retention Time

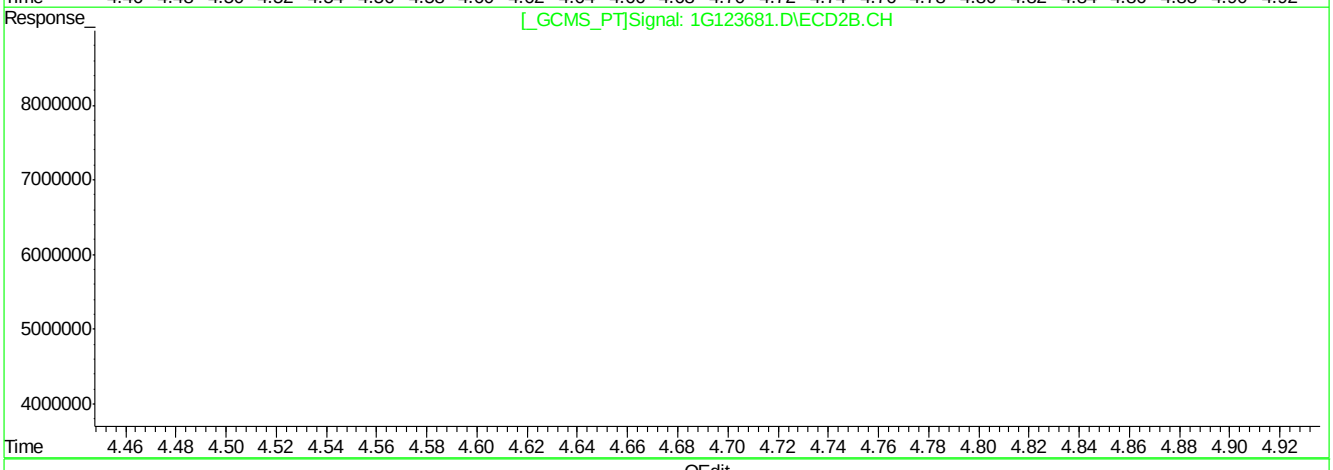
1G123681.D 1PST3988.M Tue May 31 11:55:09 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

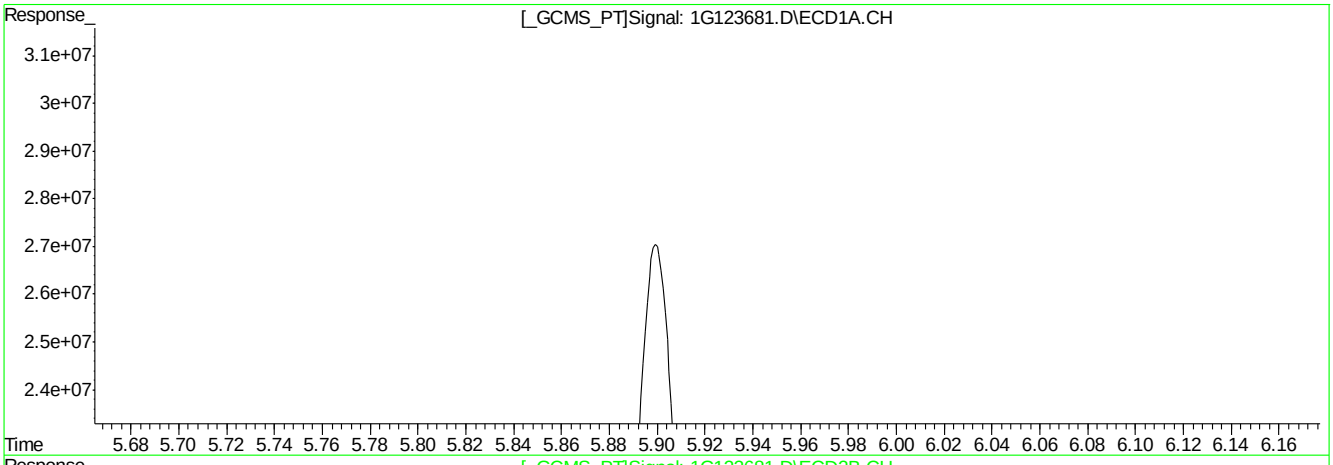
1G123681.D 1PST3988.M Tue May 31 11:55:50 2016 RPT1

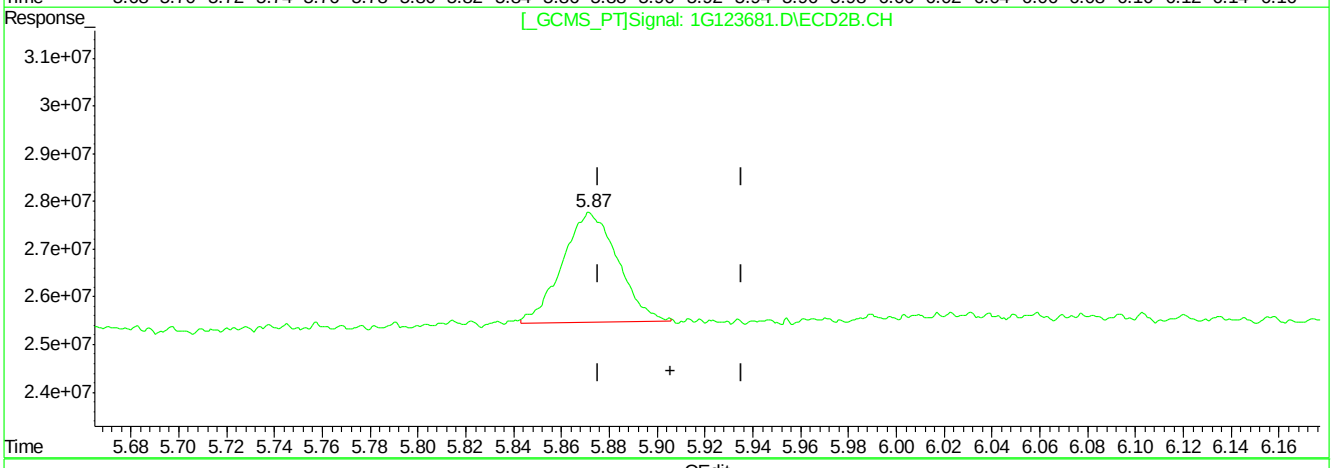
11.5.2.4 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.66min 1.203PPB m

response 5652561

(13) 4,4'-DDE #2 (B)

5.87min 1.523PPB m

response 37119886

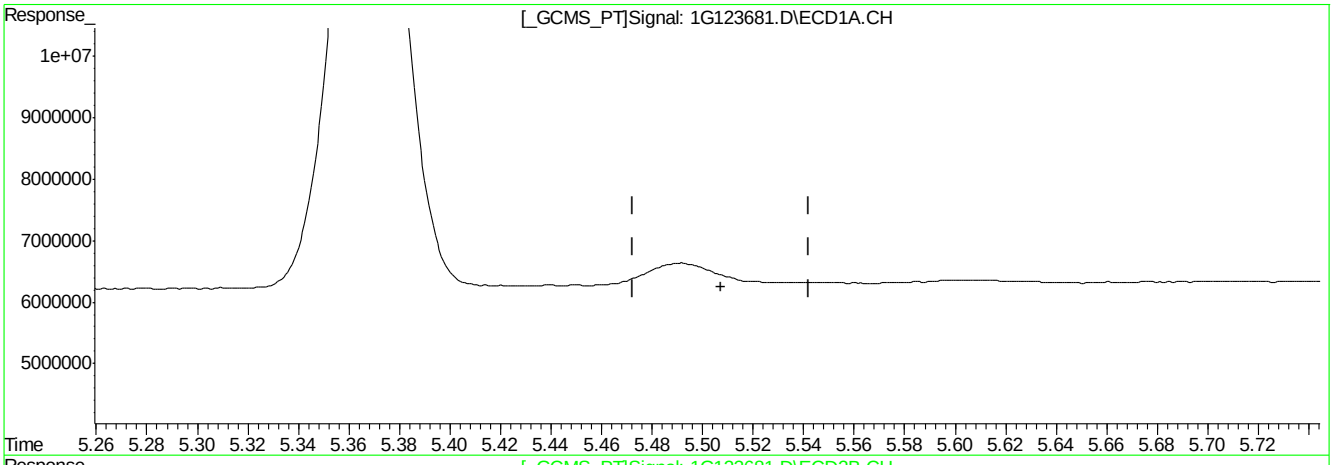
(+) = Expected Retention Time

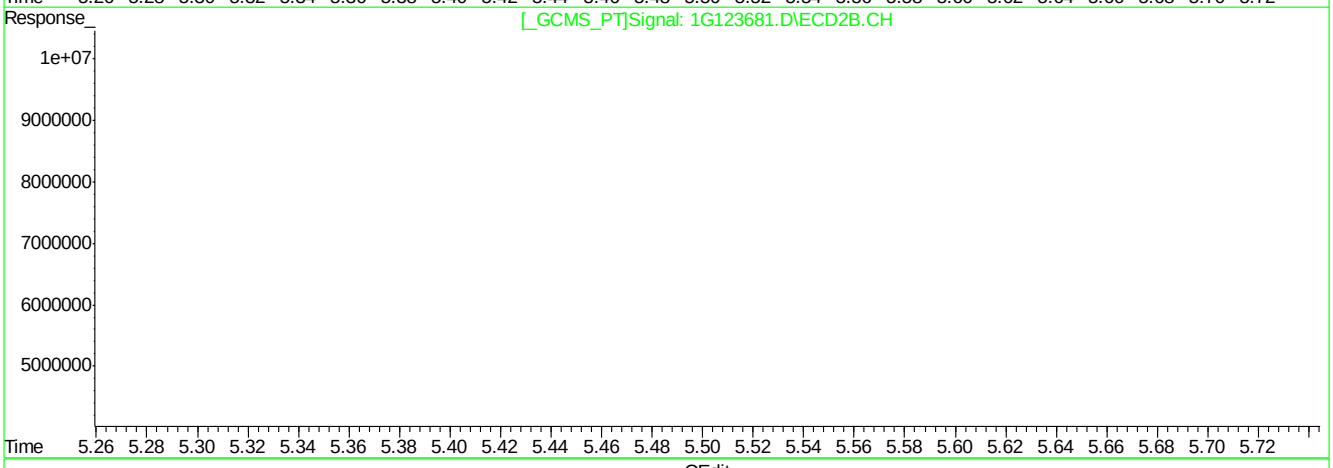
1G123681.D 1PST3988.M Tue May 31 11:57:20 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123681.D 1PST3988.M Tue May 31 11:58:24 2016 RPT1

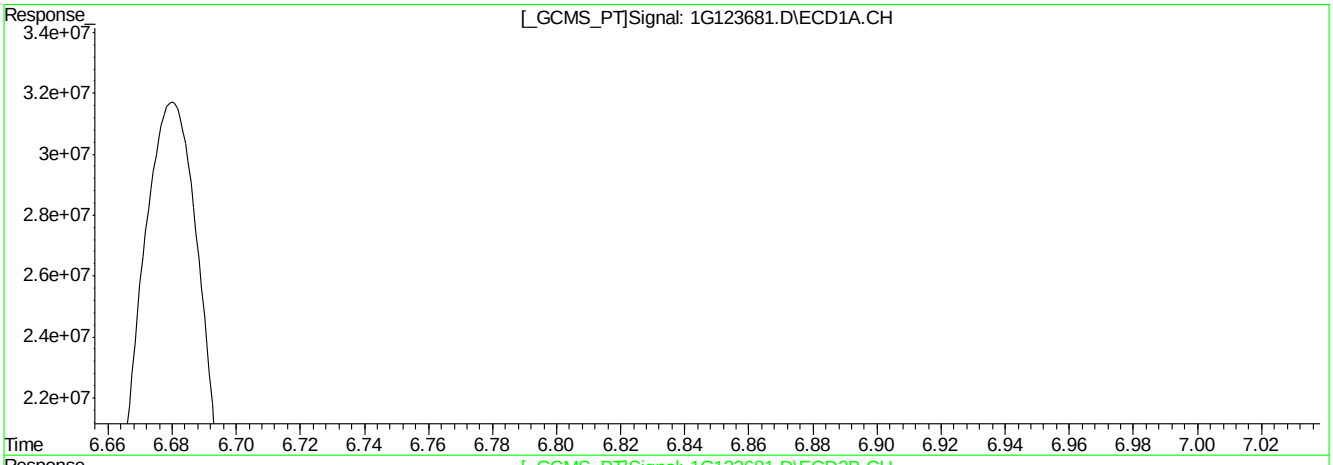
11.5.2.6

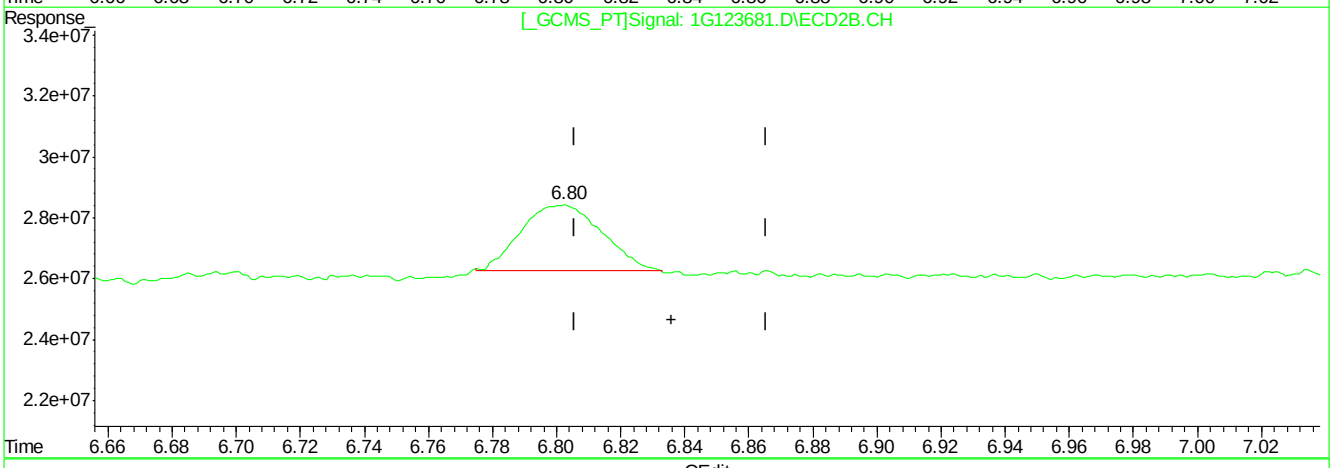
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.49min 1.740PPB m

response 6419344

(16) 4,4'-DDD #2 (A)

6.80min 1.908PPB m

response 38298039

(+) = Expected Retention Time

1G123681.D 1PST3988.M Tue May 31 11:59:27 2016 RPT1

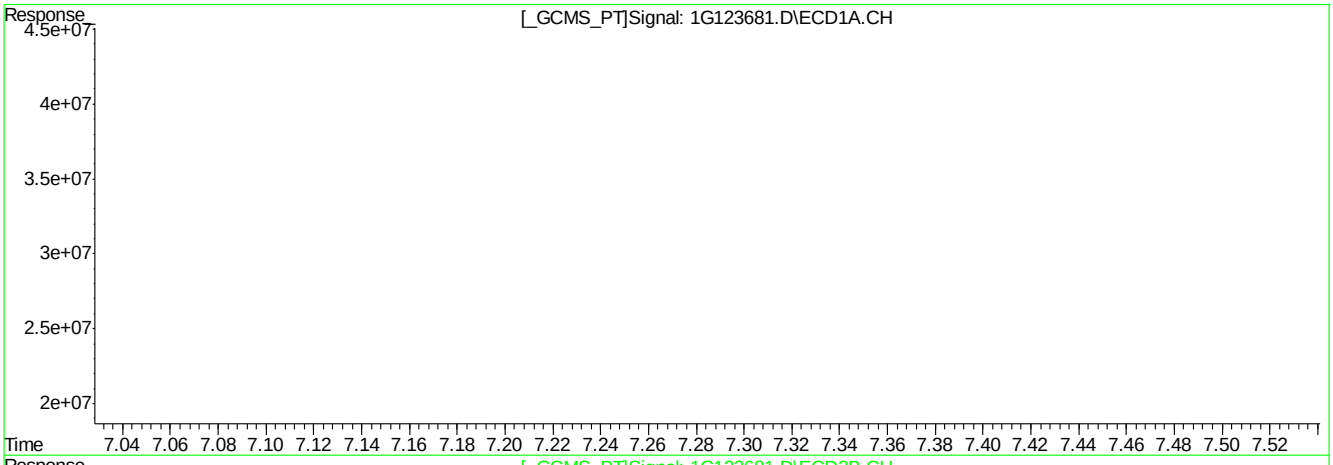
11.5.2.7

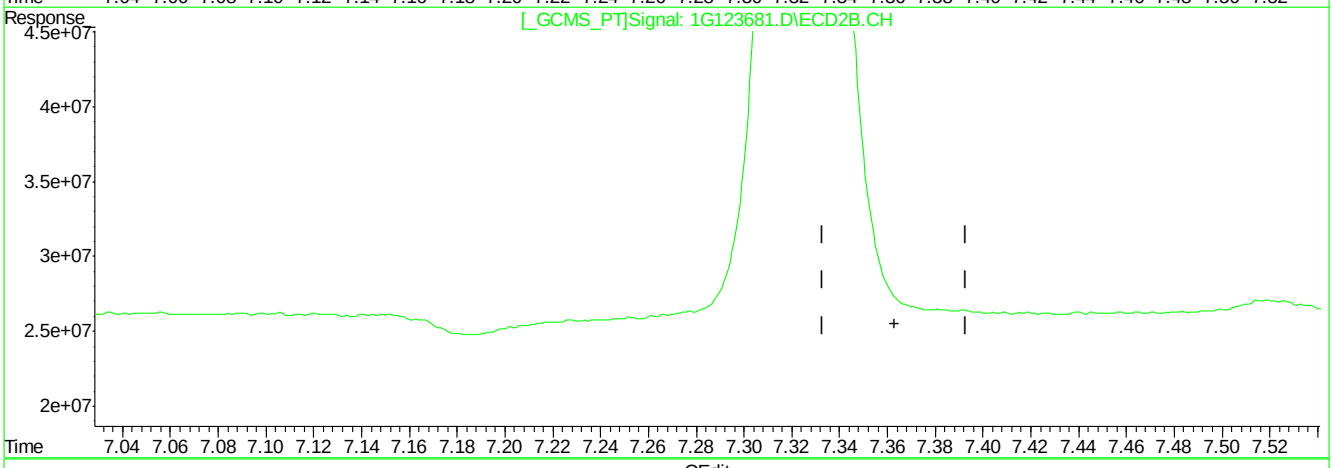
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.90min 88.881PPB

response 357288212

(18) 4,4'-DDT #2 (MA)

0.00min 0.000PPB

response 0

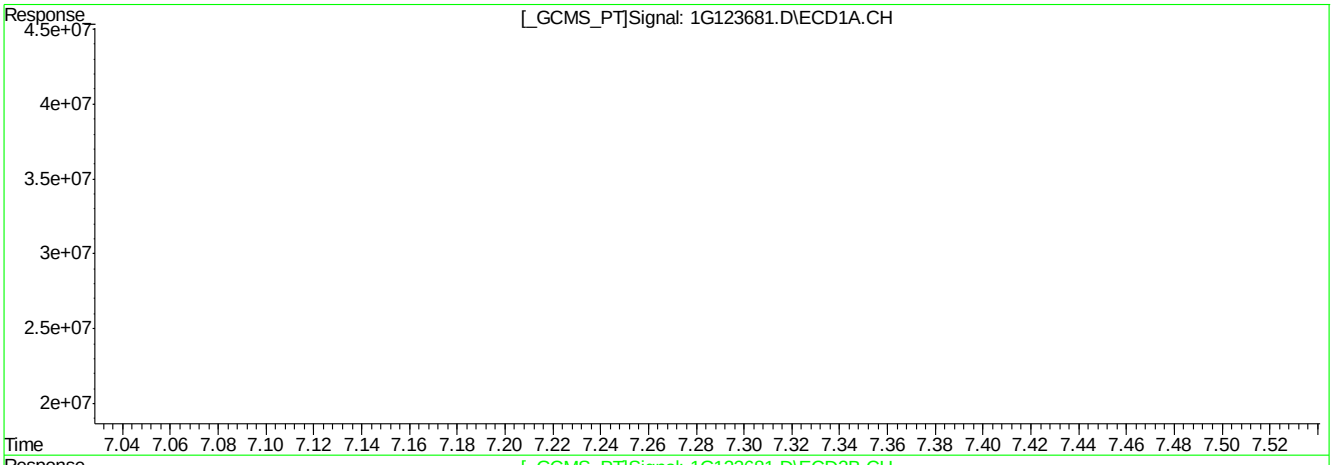
(+) = Expected Retention Time

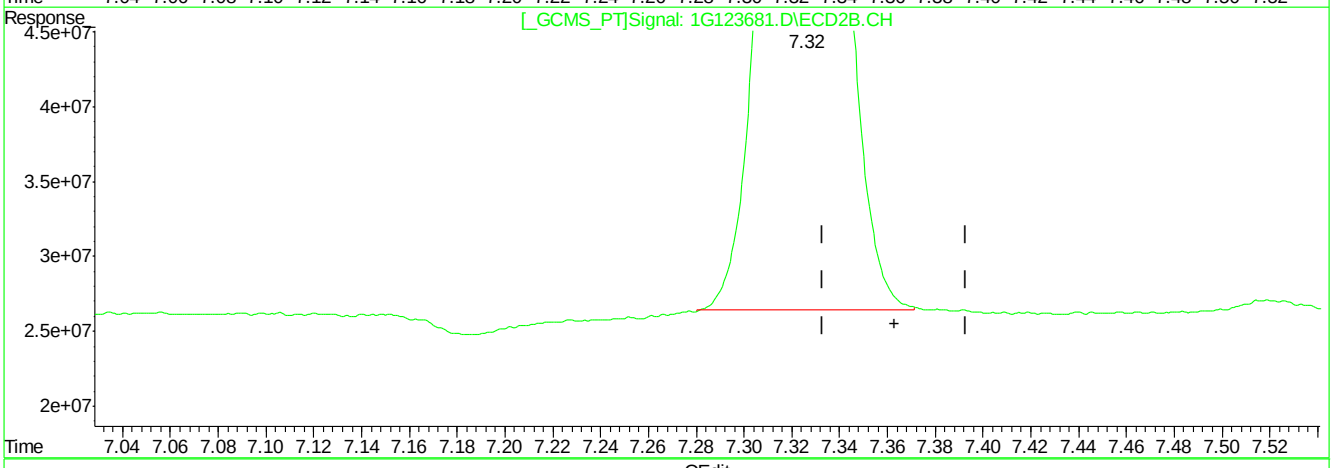
1G123681.D 1PST3988.M Tue May 31 11:59:43 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(18) 4,4'-DDT (MA)

5.90min 88.881PPB

response 357288212

(18) 4,4'-DDT #2 (MA)

7.32min 85.299PPB m

response 1680251106

(+) = Expected Retention Time

1G123681.D 1PST3988.M Tue May 31 11:59:53 2016 RPT1

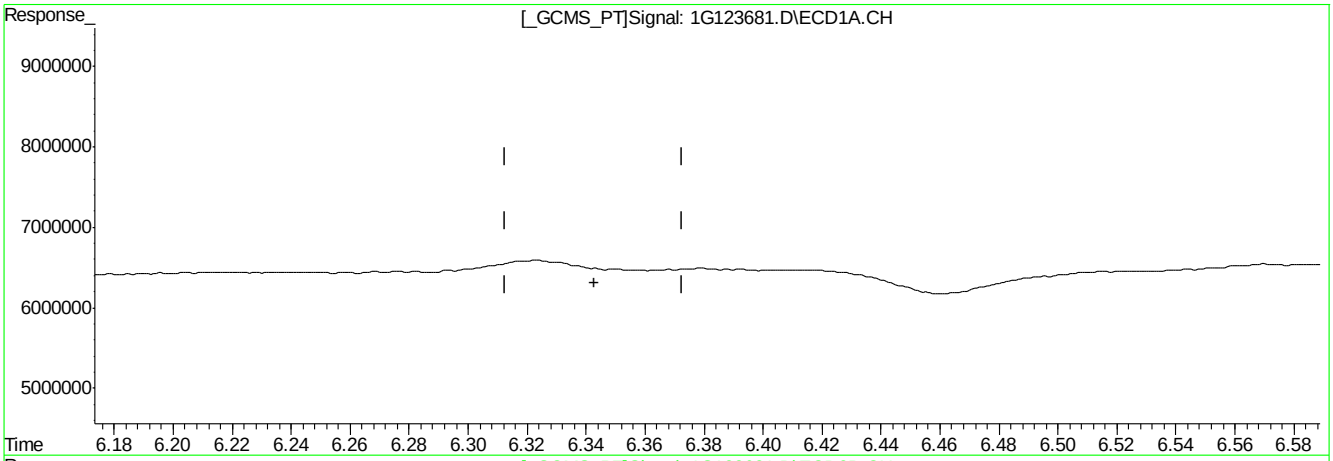
11.5.2.9

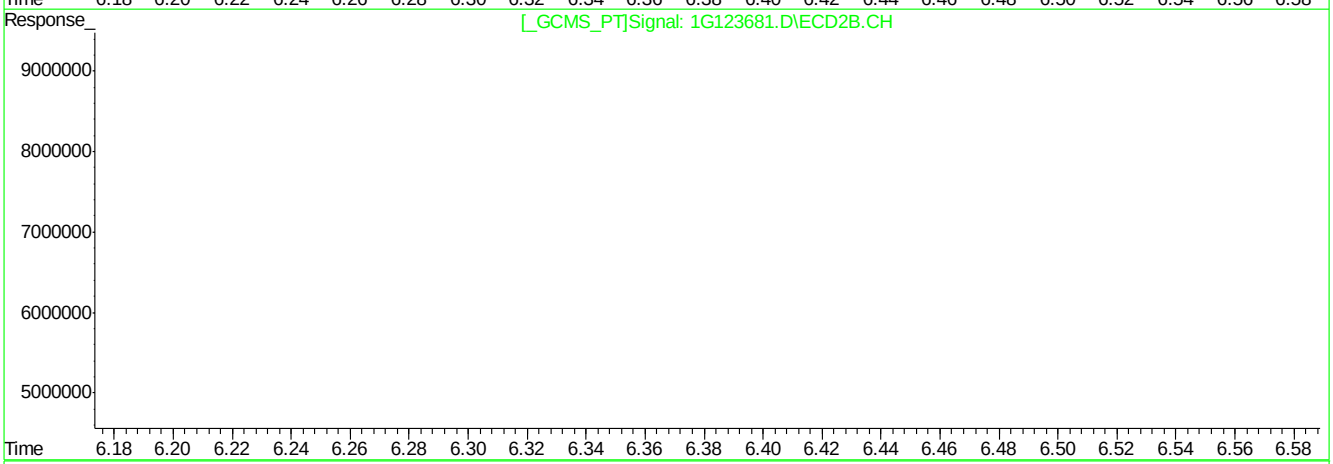
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

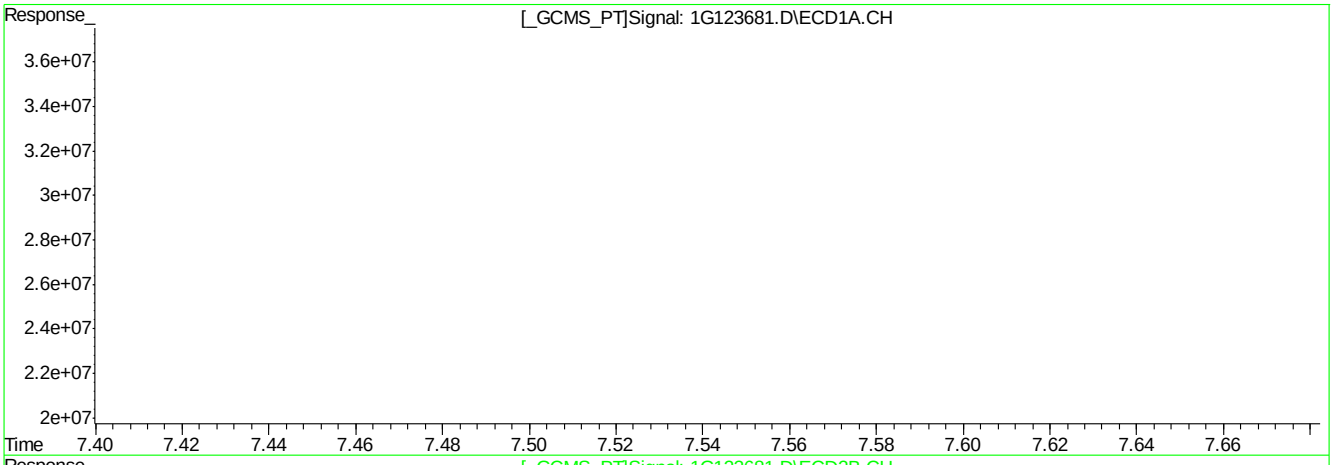
1G123681.D 1PST3988.M Tue May 31 12:00:05 2016 RPT1

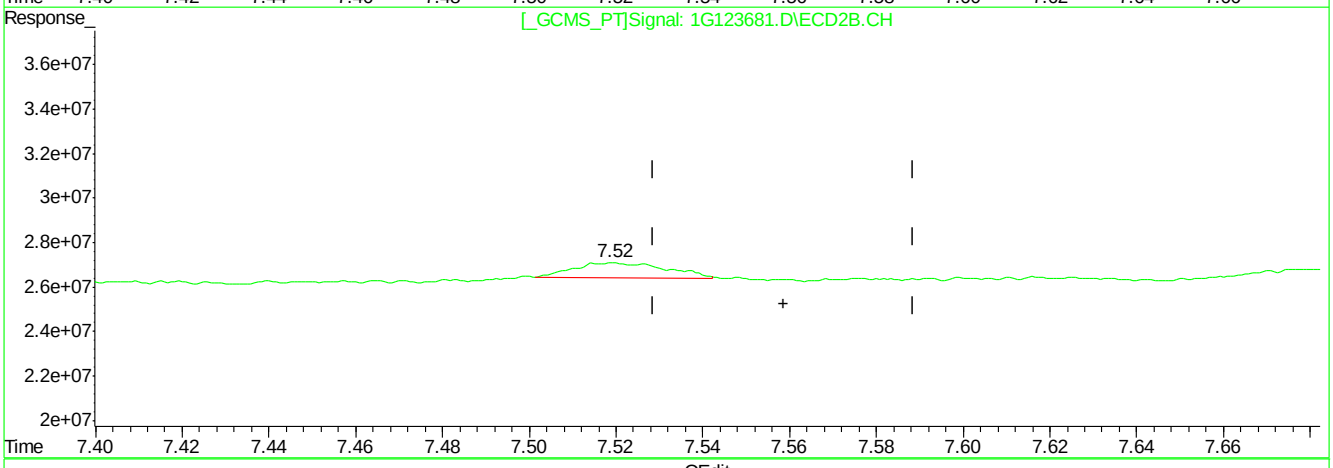
11.5.2.10 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.32min 0.641PPB m

response 2246826

(19) Endrin Aldehyde #2 (B)

7.52min 0.563PPB m

response 9903952

(+) = Expected Retention Time

1G123681.D 1PST3988.M Tue May 31 12:00:24 2016 RPT1

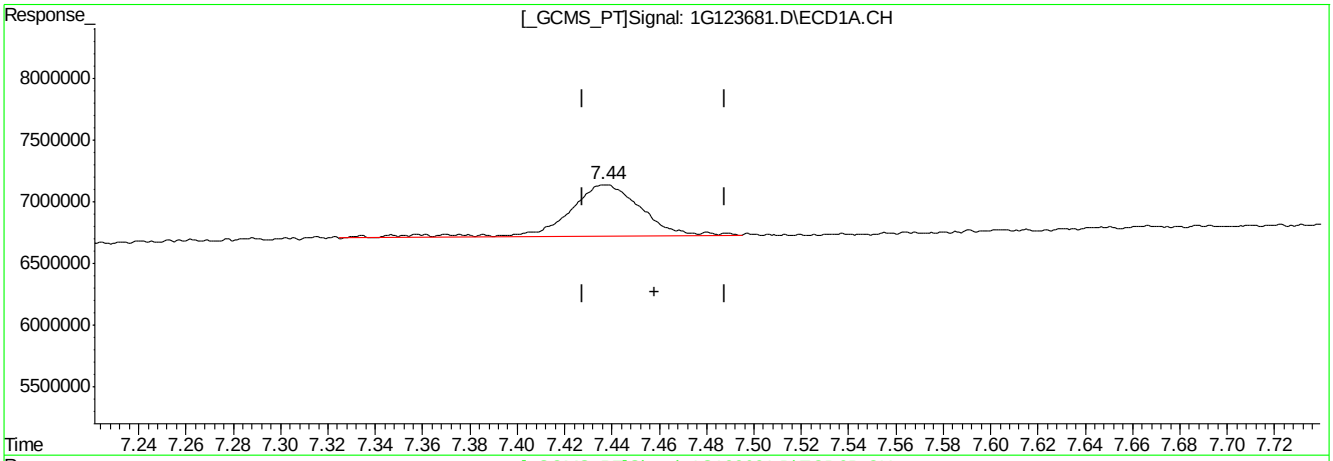
11.5.2.11

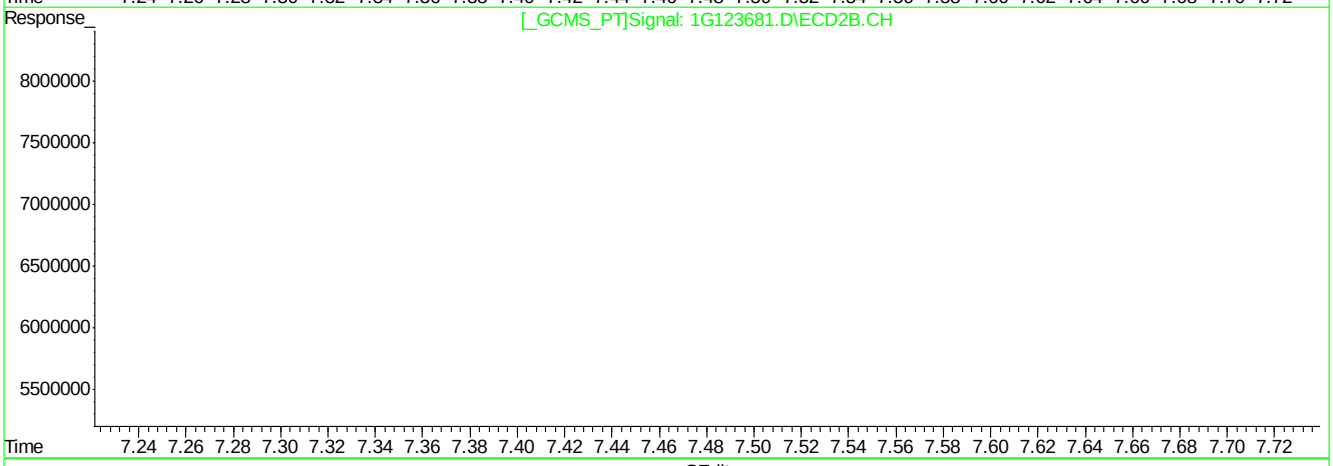
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 1.869PPB

response 9006684

(23) Endrin Ketone #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123681.D 1PST3988.M Tue May 31 12:00:39 2016 RPT1

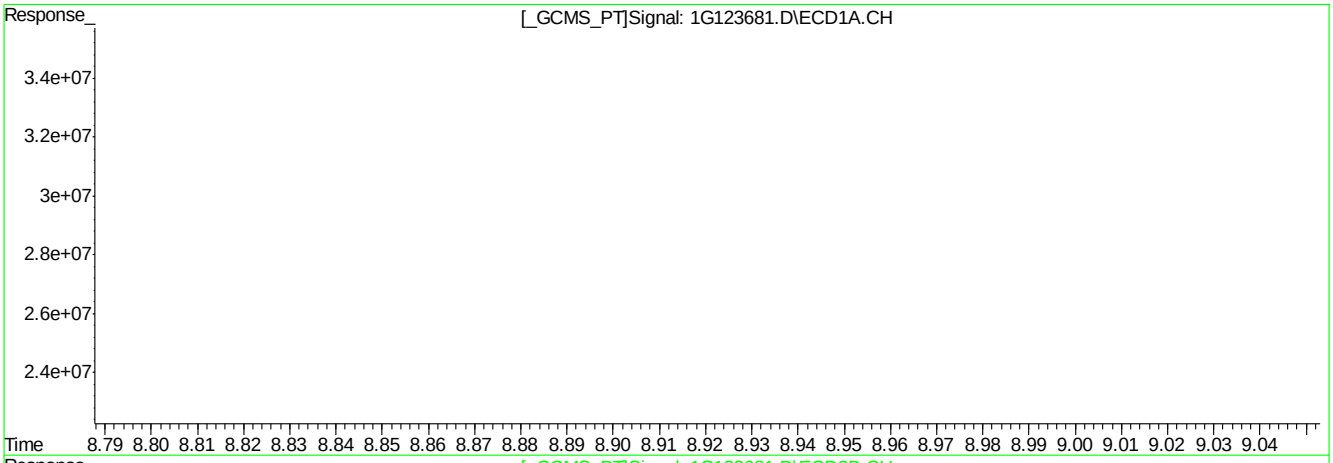
11.5.2.12

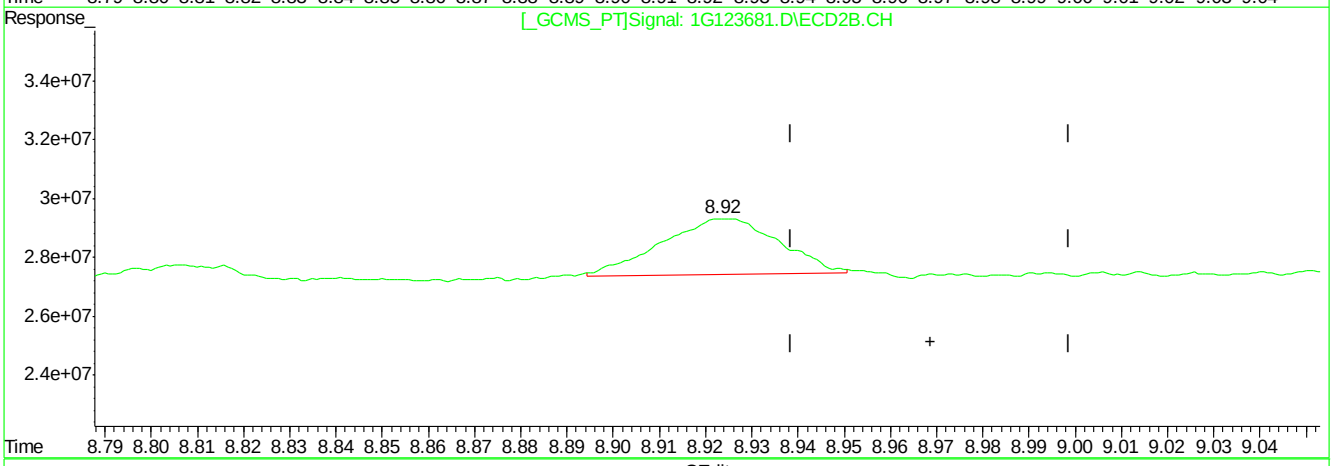
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 1.483PPB m

response 7145465

(23) Endrin Ketone #2 (B)

8.92min 1.501PPB m

response 33743189

(+) = Expected Retention Time

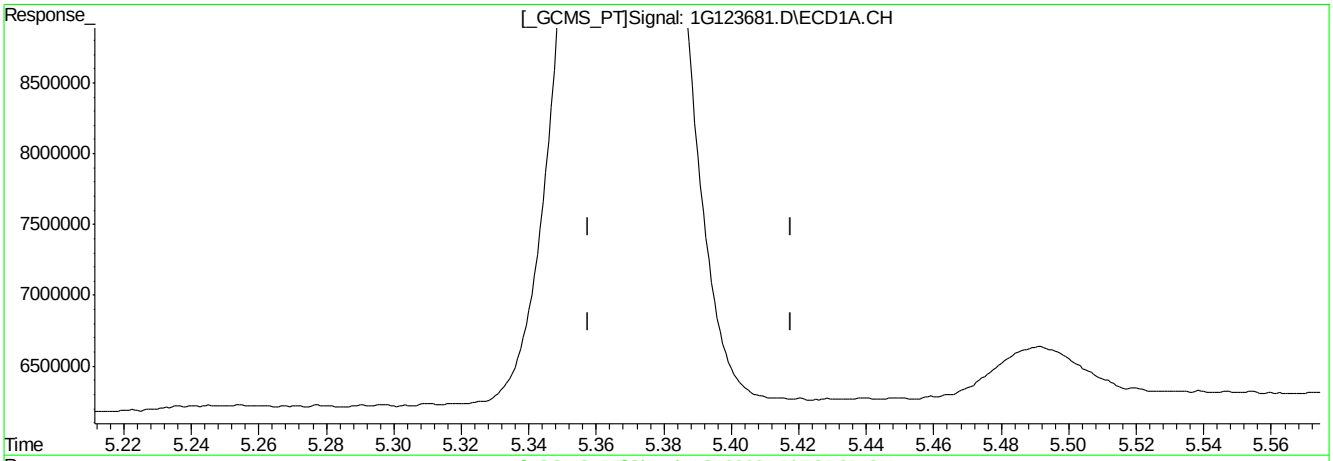
1G123681.D 1PST3988.M Tue May 31 12:01:16 2016 RPT1

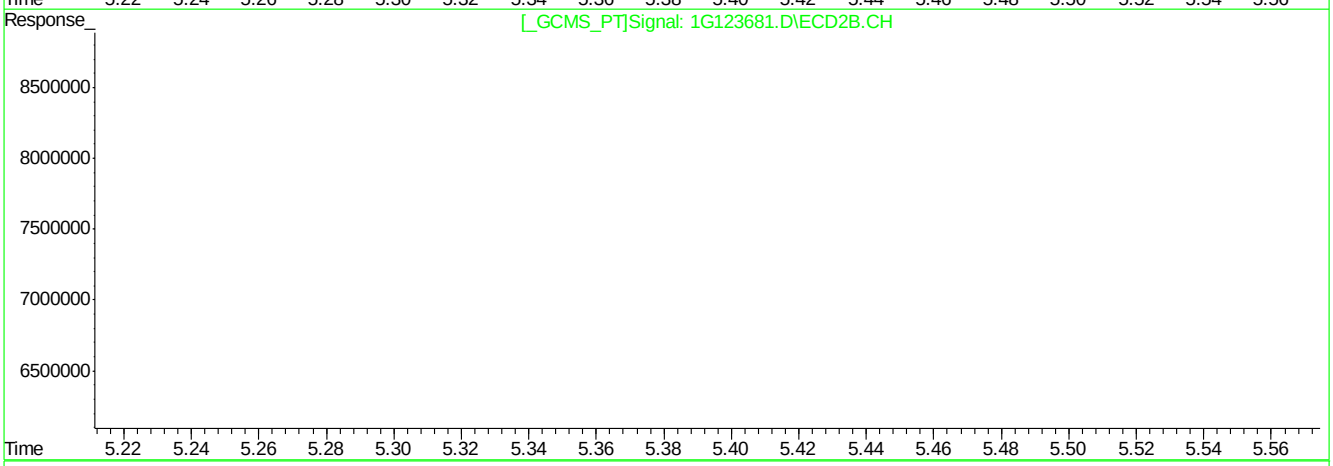
11.5.2.13 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123681.D\ECD2B.CH
Acq On    : 31 May 2016  10:14 am                    Operator: rebeccak
Sample    : ddt                                      Inst    : GC1G
Misc      : op94251,g1g4000,16.9,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 31 10:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
```





QEdit

(15) Endrin (MA)

0.00min 0.000PPB d

response 0

(15) Endrin #2 (MA)

0.00min 0.000PPB d

response 0

(+) = Expected Retention Time

1G123681.D 1PST3988.M Tue May 31 12:02:43 2016 RPT1

11.5.2.14

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/02/16 06:48

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On : 5-31-16 06:30:31 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	142.1E6	943.8E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	142.1E6	943.8E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	142.1E6	943.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.91	2.28	46799042	313.6E6	18.228	18.675
Spiked Amount	40.000	Range	30 - 150	Recovery	=	45.57%	46.69%
24) SA	Decachlorobiphen	9.22	10.63	65543465	249.1E6	18.777	21.119
Spiked Amount	40.000			Recovery	=	46.94%	52.80%
	Target Compounds						
13) B	4,4'-DDE	4.67	5.87	1991934	13049159	0.617m	0.748m
15) MA	Endrin	5.38	6.61	140.3E6	783.2E6	48.242	48.863
16) A	4,4'-DDD	5.50	6.80	3615008	24662069	1.426m	1.717m
18) MA	4,4'-DDT	5.91	7.32	267.3E6	1393.6E6	96.753	98.852
19) B	Endrin Aldehyde	6.33	7.52	993812	11297250	0.413m	0.897m
23) B	Endrin Ketone	7.45	8.92	6634582	50082611	2.004m	3.112

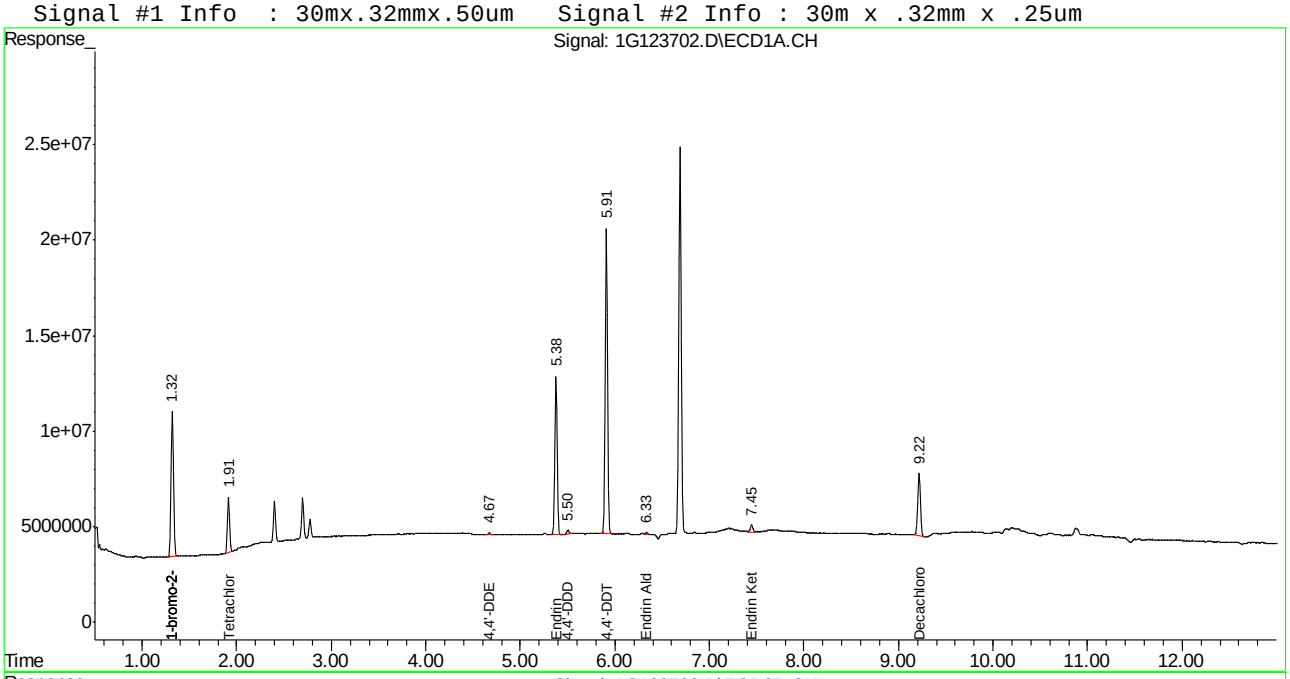
(f)=RT Delta > 1/2 Window (m)=manual int.

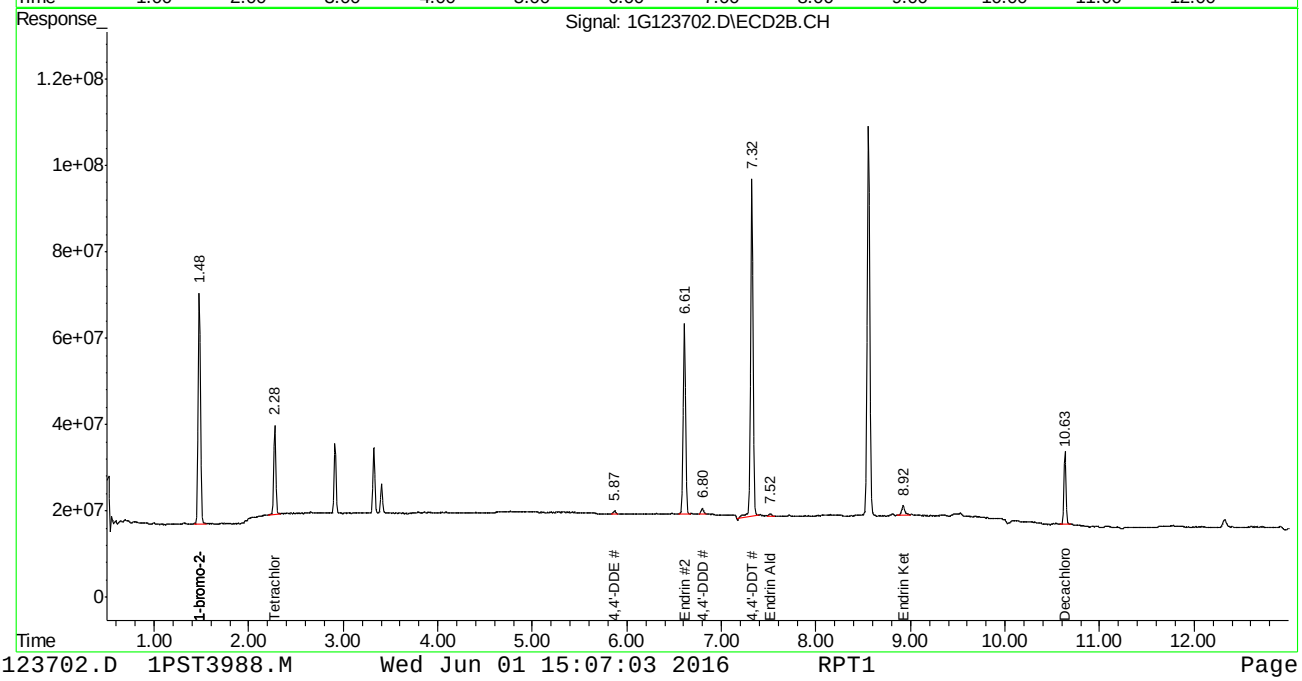
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On : 5-31-16 06:30:31 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

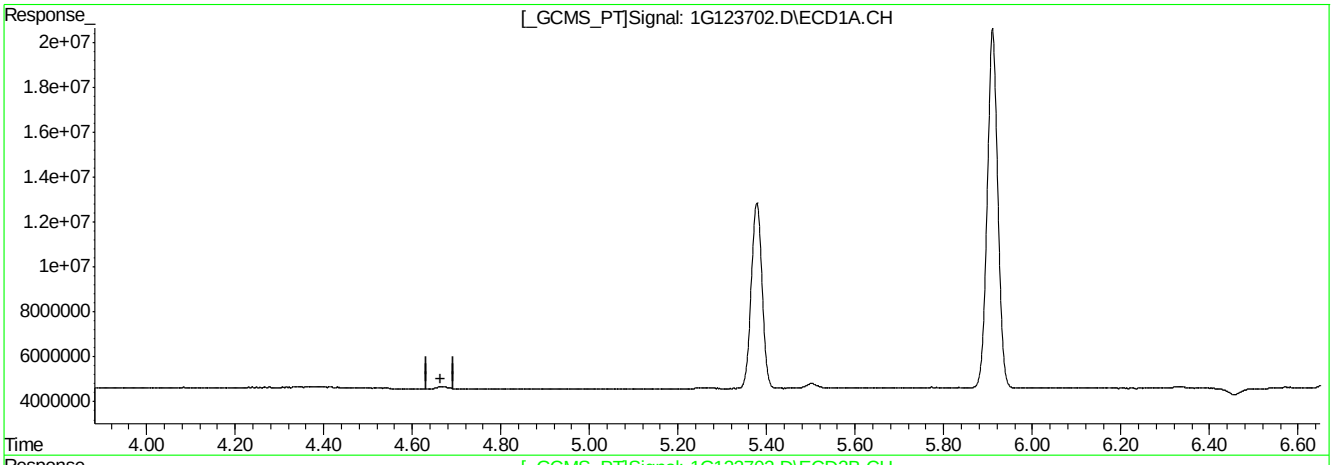
Sample Number:	G1G4000-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123702.D	**Analyst approved:**	06/01/16 16:07 Dhara Saparia
Injection Time:	05/31/16 18:30	**Supervisor approved:**	06/02/16 06:48 Gwendolyn Burns

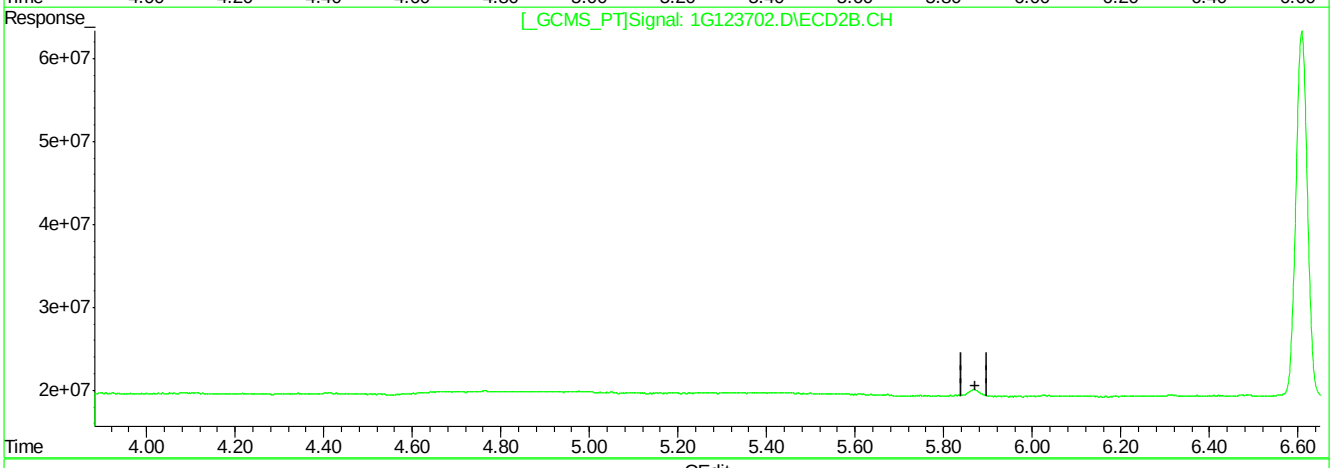
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.67	Poor instrument integration
4,4'-DDD	72-54-8	1	5.50	Poor instrument integration
4,4'-DDE	72-55-9	2	5.87	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.33	Poor instrument integration
4,4'-DDD	72-54-8	2	6.80	Poor instrument integration
Endrin ketone	53494-70-5	1	7.45	Poor instrument integration
Endrin aldehyde	7421-93-4	2	7.52	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

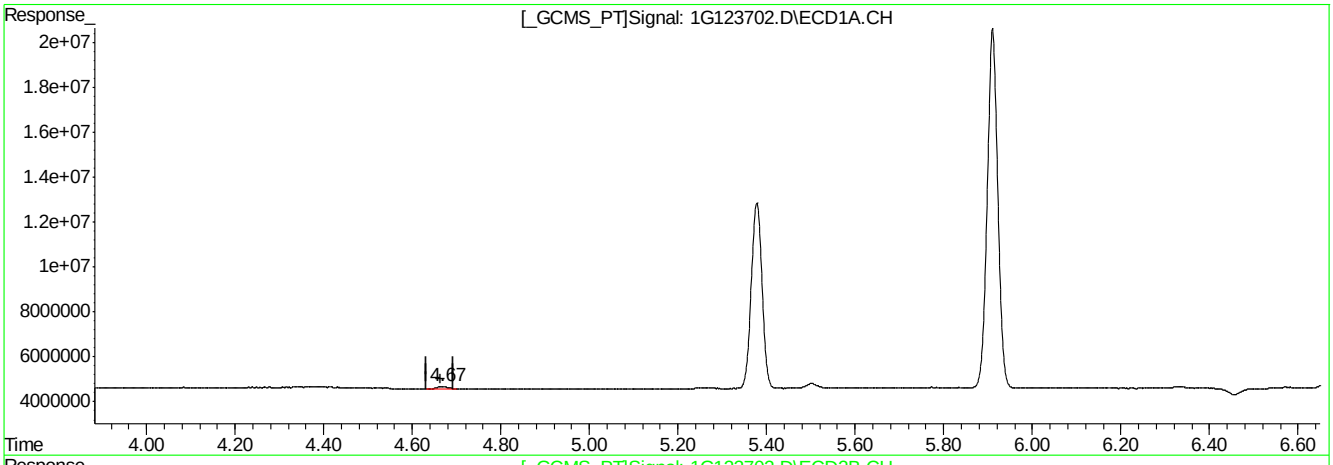
(+) = Expected Retention Time

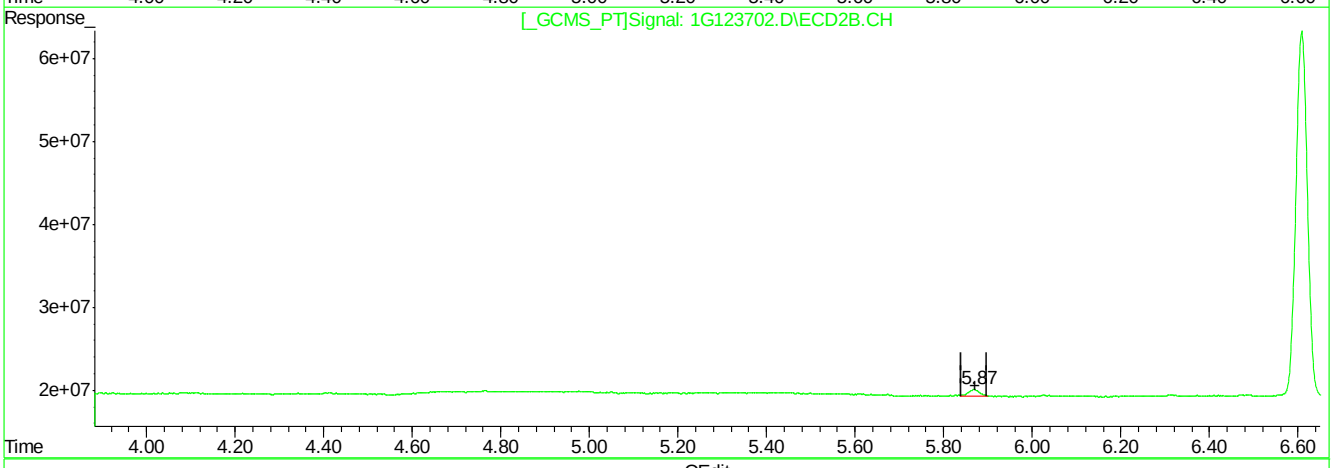
1G123702.D 1PST3988.M Wed Jun 01 15:05:48 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.67min 0.617PPB m

response 1991934

(13) 4,4'-DDE #2 (B)

5.87min 0.748PPB m

response 13049159

(+) = Expected Retention Time

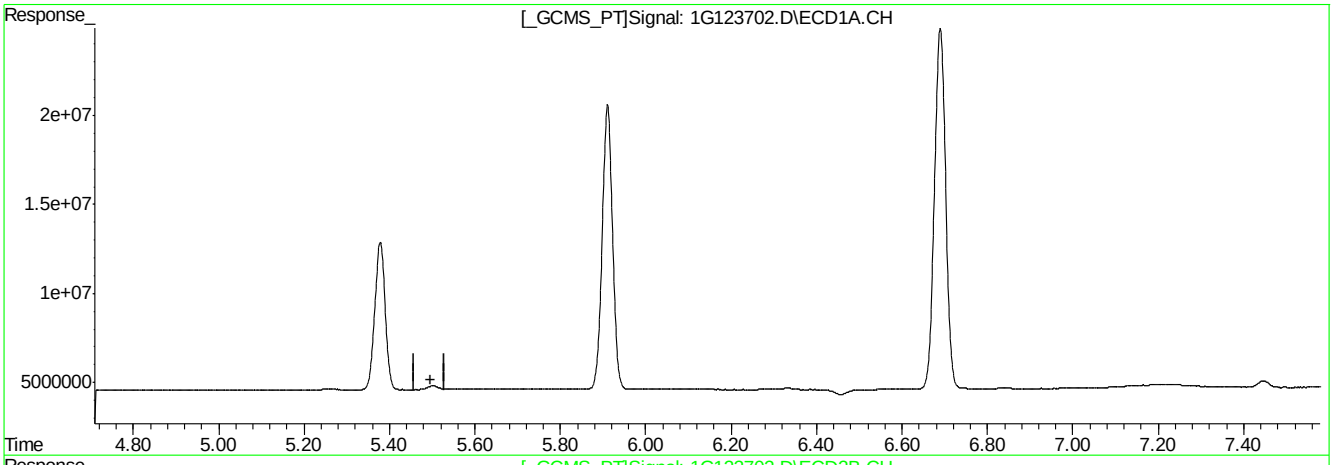
1G123702.D 1PST3988.M Wed Jun 01 15:06:02 2016 RPT1

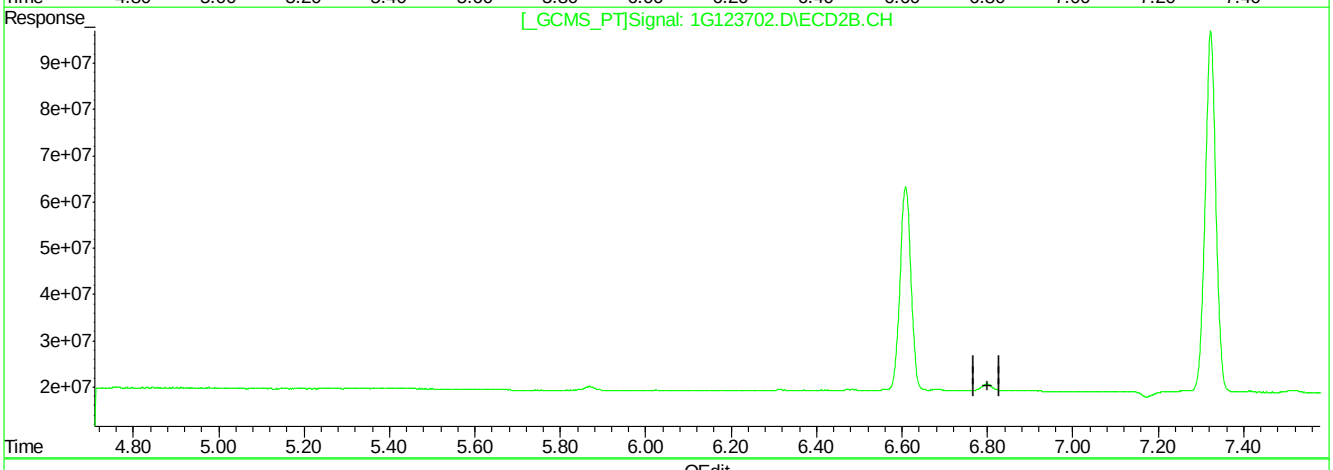
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123702.D 1PST3988.M Wed Jun 01 15:06:05 2016 RPT1

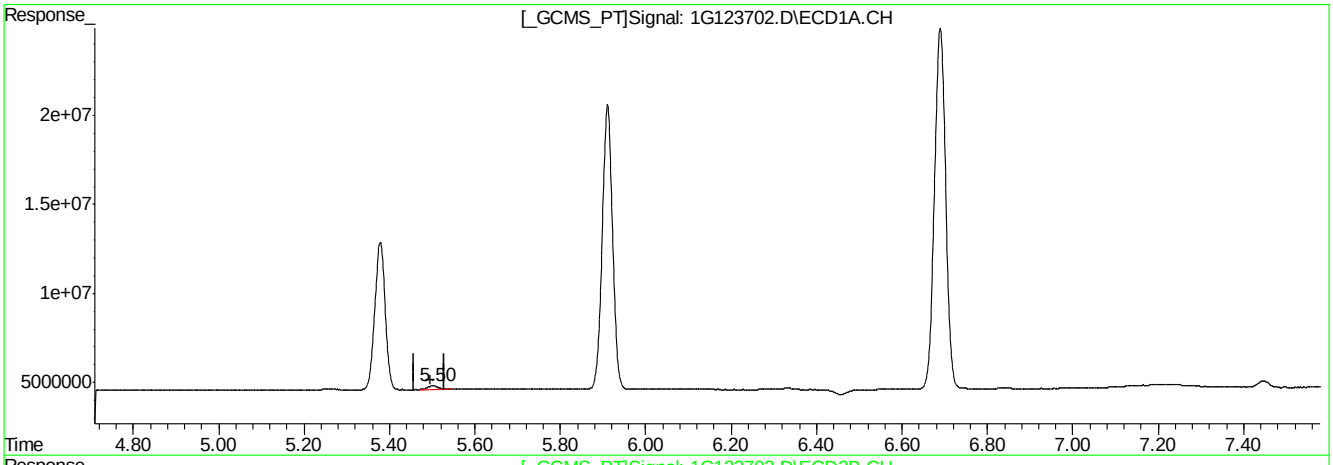
11.5.3.4

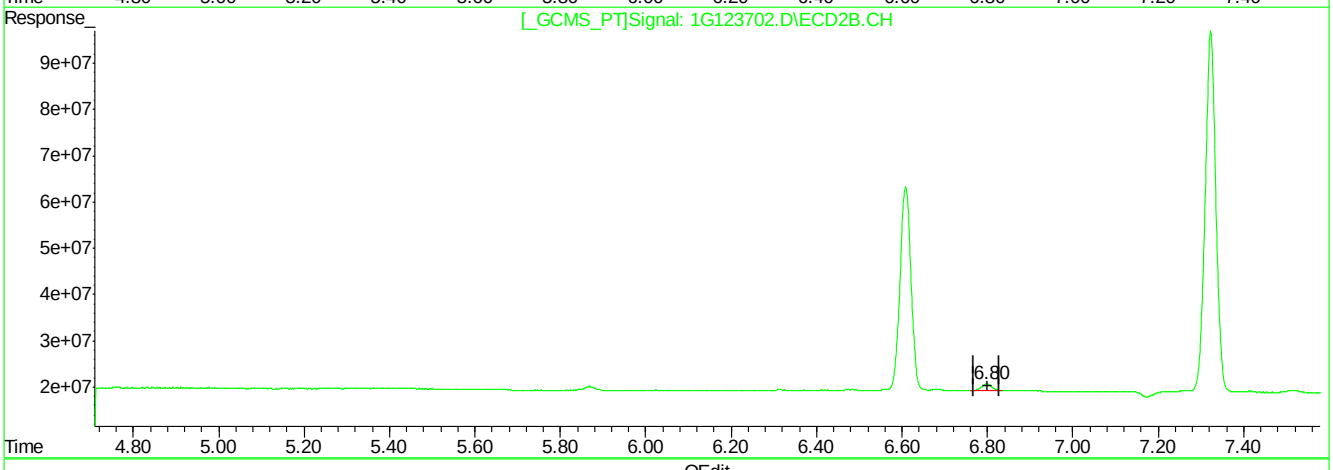
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.50min 1.426PPB m

response 3615008

(16) 4,4'-DDD #2 (A)

6.80min 1.717PPB m

response 24662069

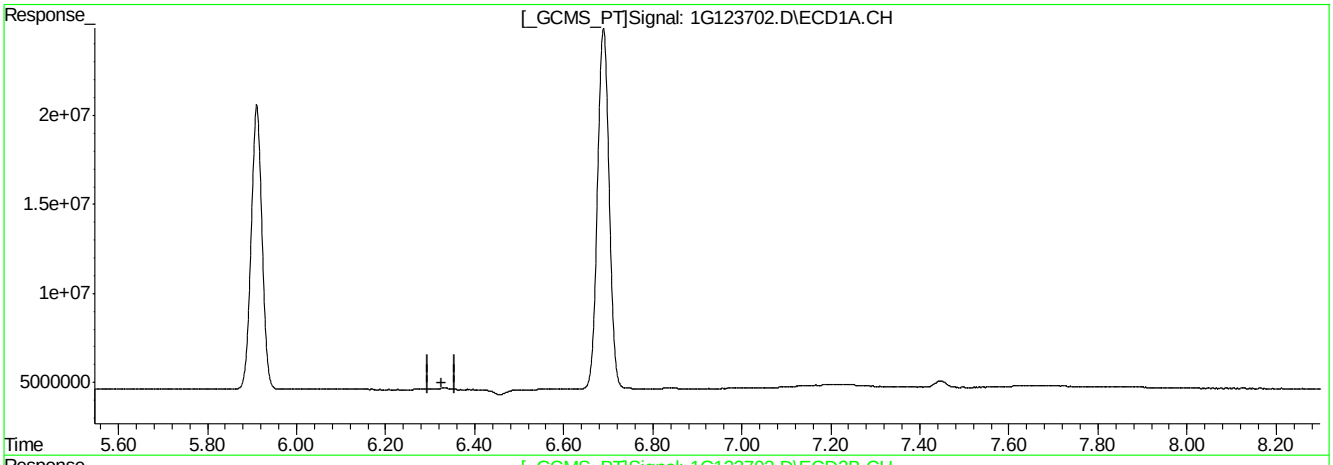
(+) = Expected Retention Time

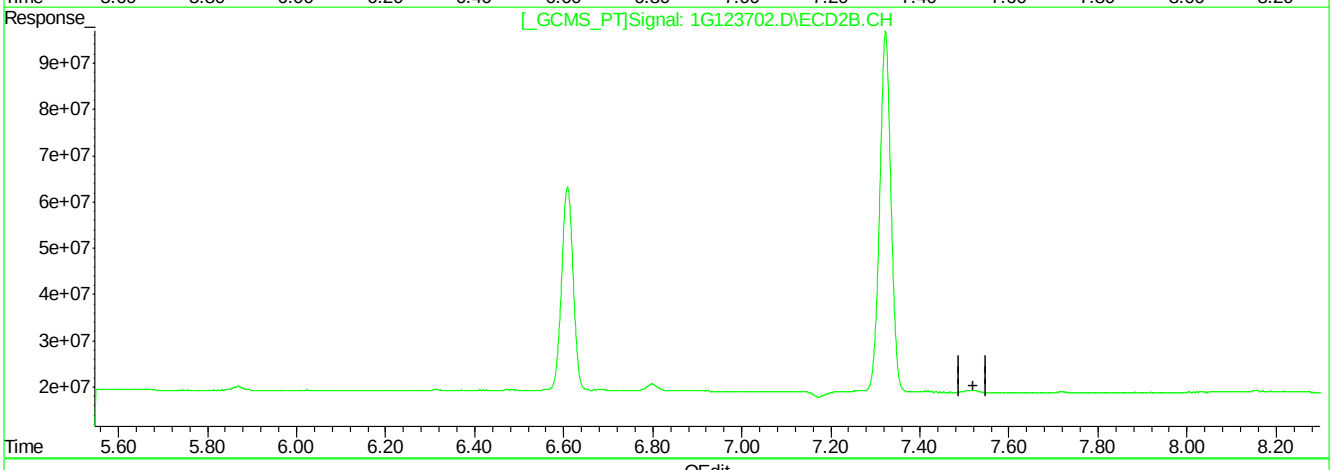
1G123702.D 1PST3988.M Wed Jun 01 15:06:19 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123702.D 1PST3988.M Wed Jun 01 15:06:26 2016 RPT1

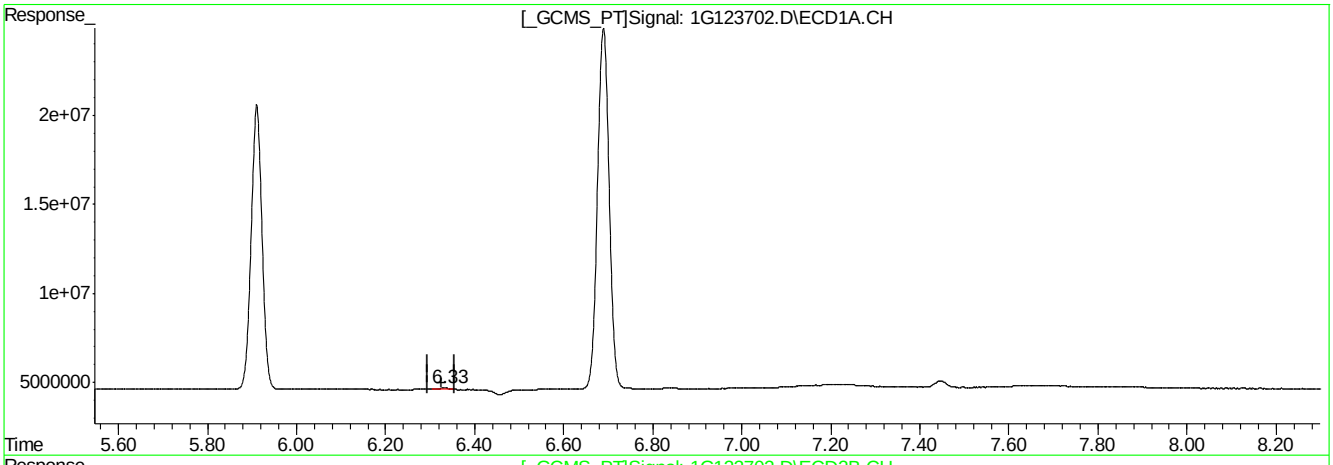
11.5.3.6

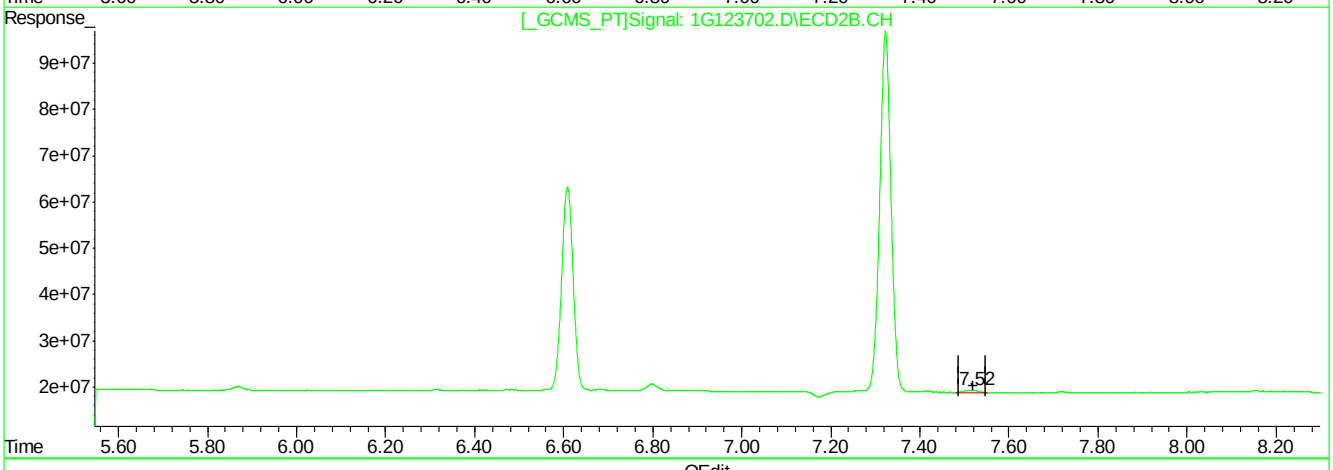
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.33min 0.413PPB m

response 993812

(19) Endrin Aldehyde #2 (B)

7.52min 0.897PPB m

response 11297250

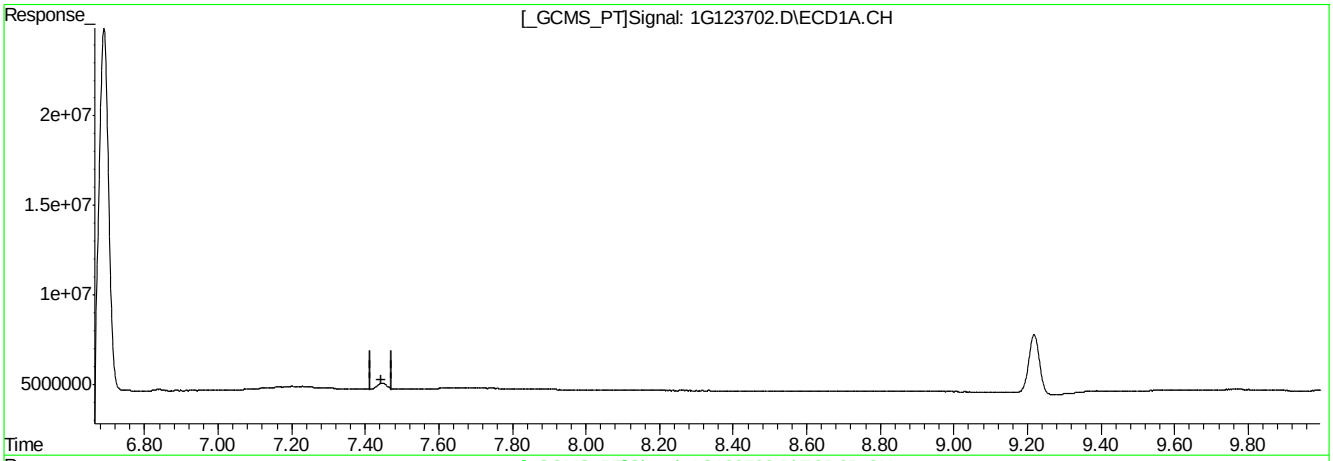
(+) = Expected Retention Time

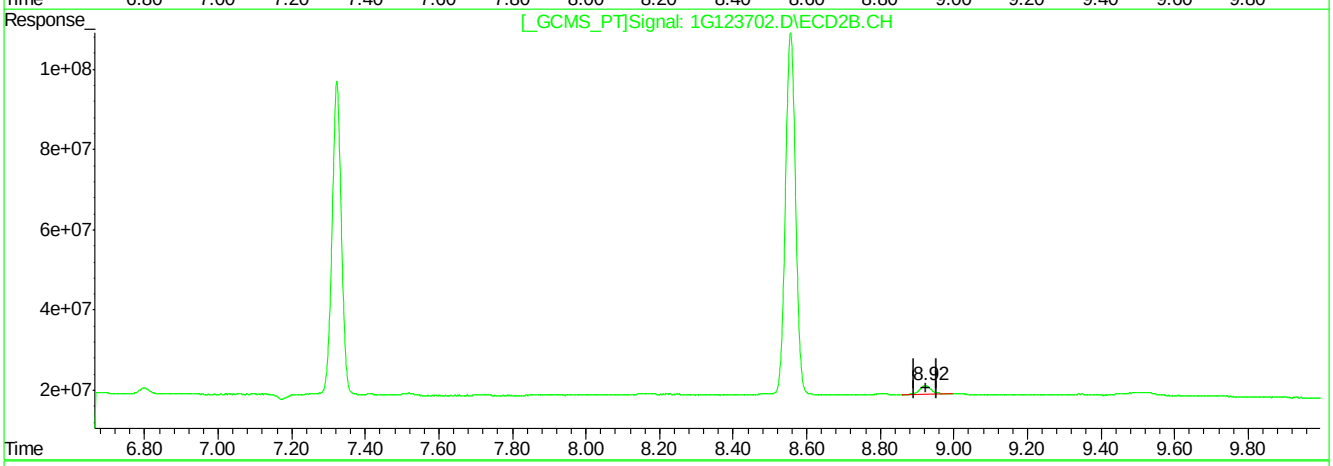
1G123702.D 1PST3988.M Wed Jun 01 15:06:42 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

0.00min 0.000PPB

response 0

(23) Endrin Ketone #2 (B)

8.92min 3.112PPB

response 50082611

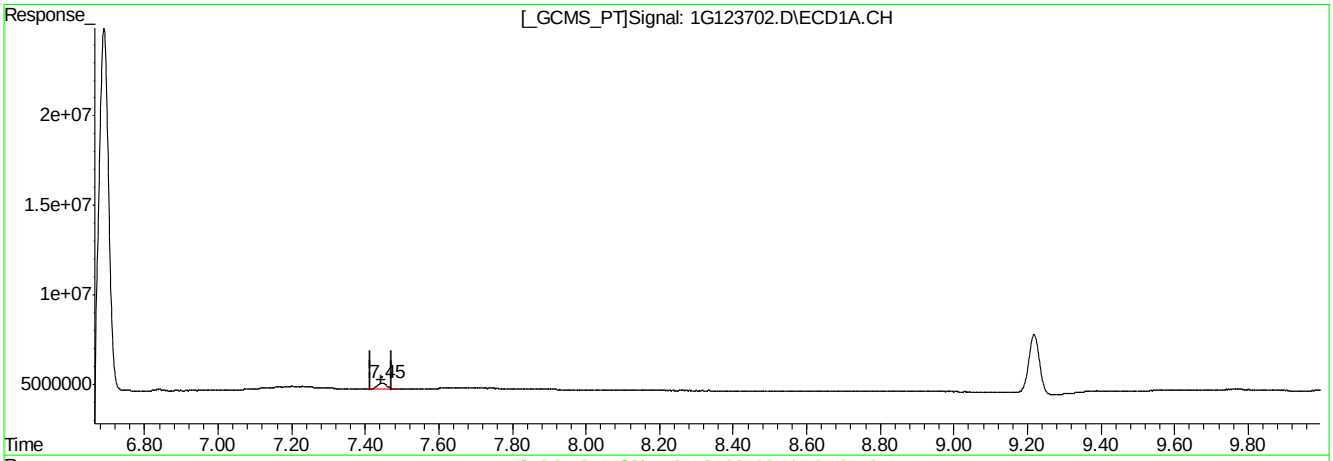
(+) = Expected Retention Time

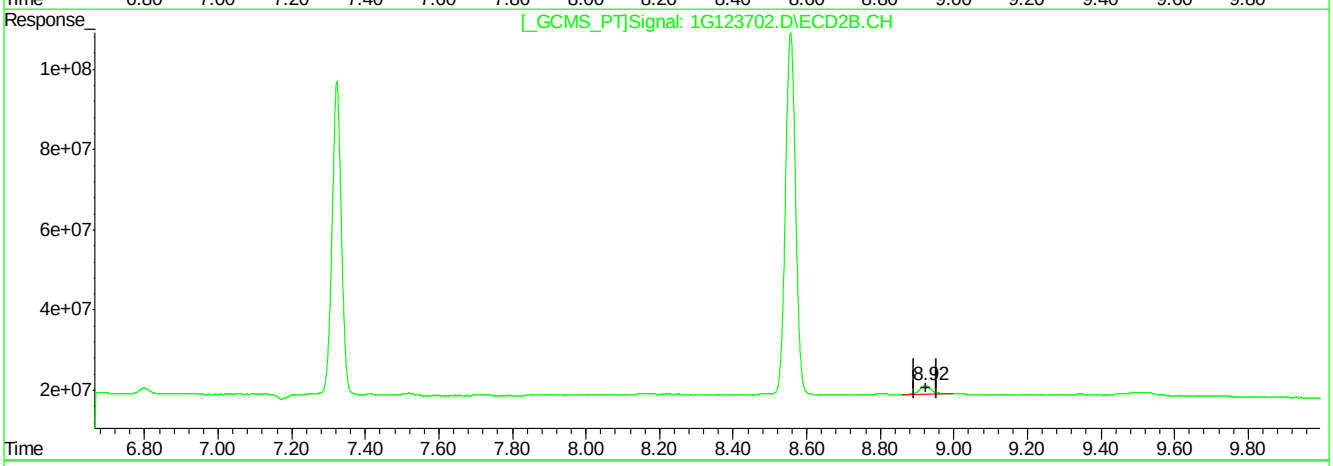
1G123702.D 1PST3988.M Wed Jun 01 15:06:47 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123702.D\ECD2B.CH
Acq On    : 5-31-16 06:30:31 PM                      Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4000,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 15:05 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.45min 2.004PPB m

response 6634582

(23) Endrin Ketone #2 (B)

8.92min 3.112PPB

response 50082611

(+) = Expected Retention Time

1G123702.D 1PST3988.M Wed Jun 01 15:06:55 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/01/16 13:33

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On : 6-1-16 09:43:01 AM Operator: kristend
Sample : ddt Inst : GC1G
Misc : op94185,g1g4001,16.4,,,10,5 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 10:14 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	164.5E6	1035.9E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	164.5E6	1035.9E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	164.5E6	1035.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.91	2.28	56041046	353.2E6	18.851	19.167
Spiked Amount	40.000	Range	30 - 150	Recovery	=	47.13%	47.92%
24) SA	Decachlorobiphen	9.21	10.63	77569974	224.3E6	19.193	17.323m
Spiked Amount	40.000			Recovery	=	47.98%	43.31%
	Target Compounds						
13) B	4,4'-DDE	4.66	5.87	1183215	5946927	0.317m	0.311m
15) MA	Endrin	5.37	6.61	167.8E6	875.6E6	49.841	49.776
16) A	4,4'-DDD	5.49	6.80	2909740	18847773	0.991m	1.196m
18) MA	4,4'-DDT	5.90	7.33	321.7E6	1533.6E6	100.589	99.118
19) B	Endrin Aldehyde	6.32	7.52	1479250	7347066	0.531m	0.532m
23) B	Endrin Ketone	7.44	8.92	7170431	37454702	1.870m	2.121m

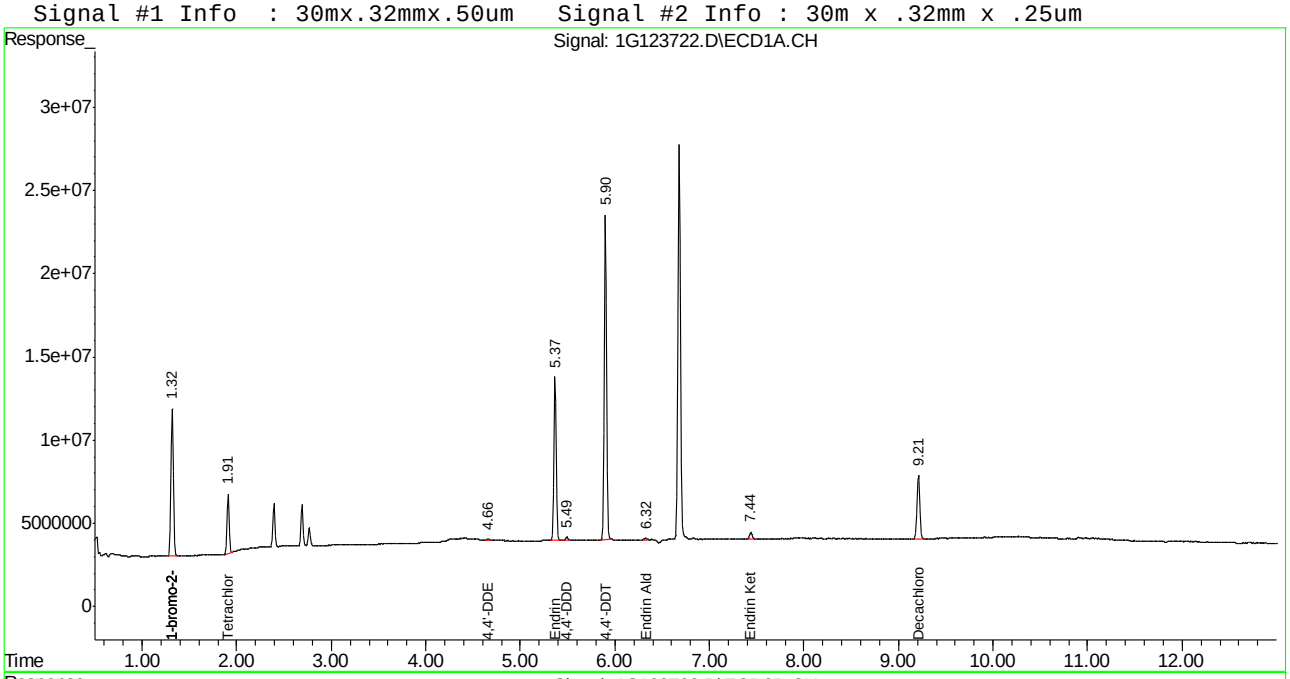
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123722.D 1PST3988.M Wed Jun 01 10:15:52 2016 RPT1 Page 1

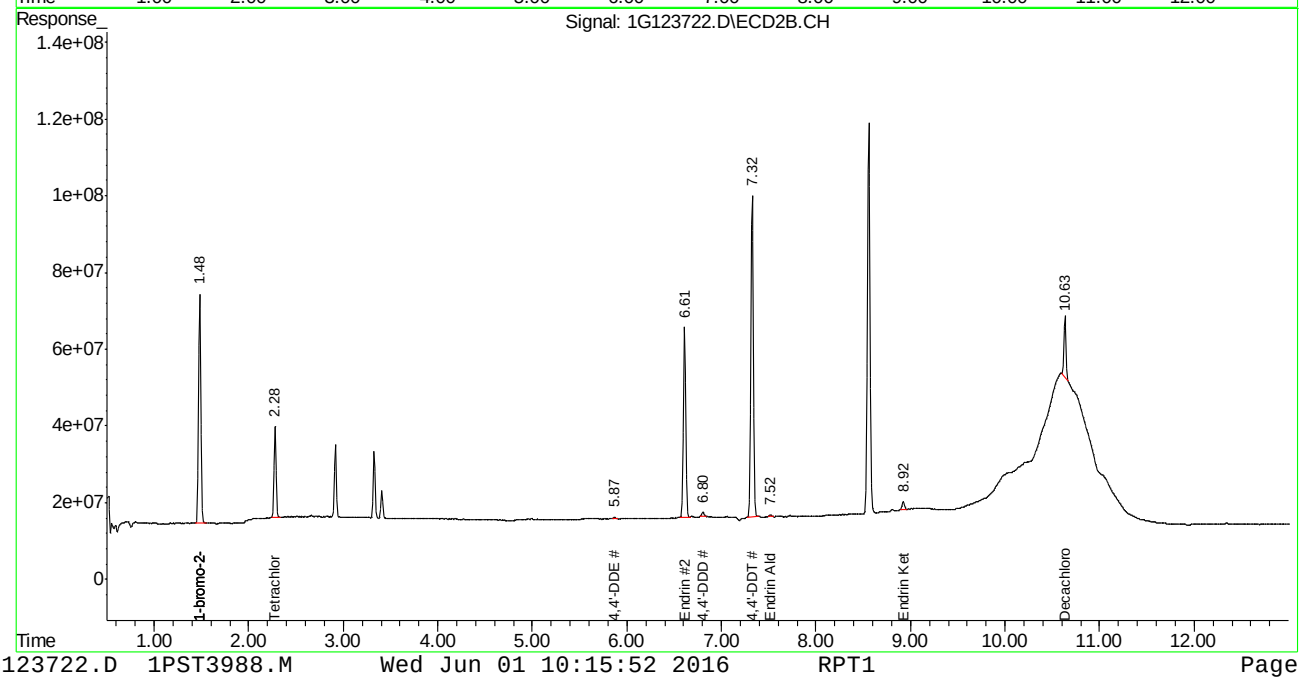
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On : 6-1-16 09:43:01 AM Operator: kristend
Sample : ddt Inst : GC1G
Misc : op94185,g1g4001,16.4,,,10,5 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 10:14 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

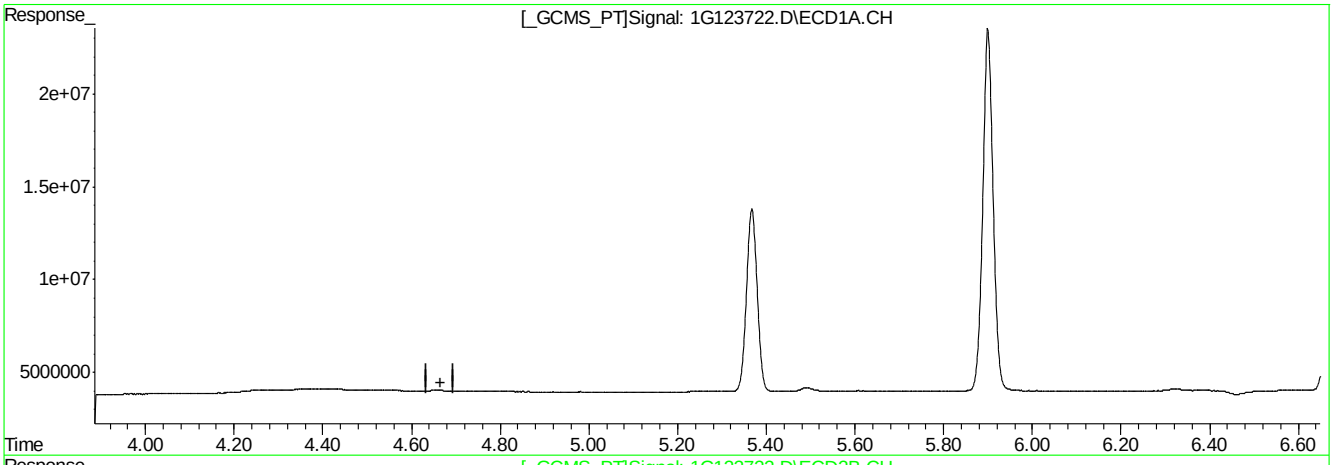
Sample Number:	G1G4001-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123722.D	**Analyst approved:**	06/01/16 13:09 Kristen Drake
Injection Time:	06/01/16 09:43	**Supervisor approved:**	06/01/16 13:33 Gwendolyn Burns

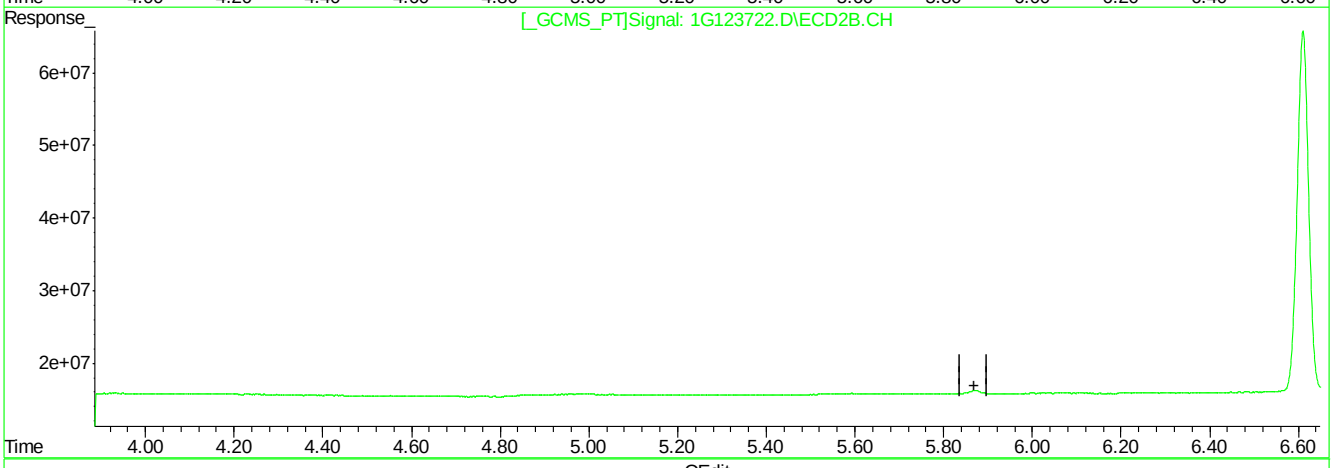
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.66	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.49	Poorly defined baseline
4,4'-DDE	72-55-9	2	5.87	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.32	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.80	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.44	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	7.52	Poorly defined baseline
Endrin ketone	53494-70-5	2	8.92	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	10.63	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123722.D 1PST3988.M Wed Jun 01 10:07:40 2016 RPT1

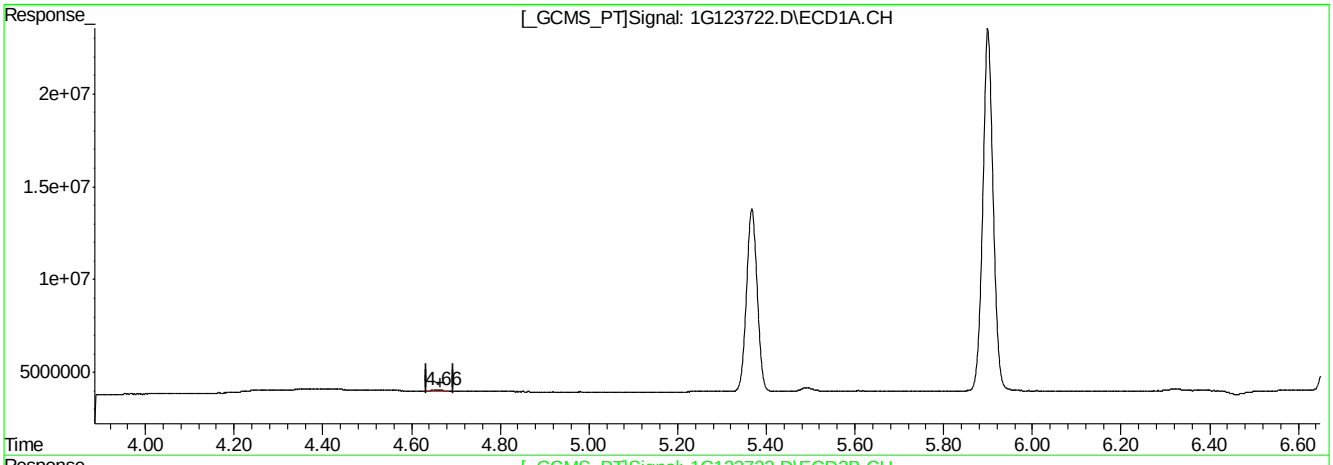
11.5.4.2

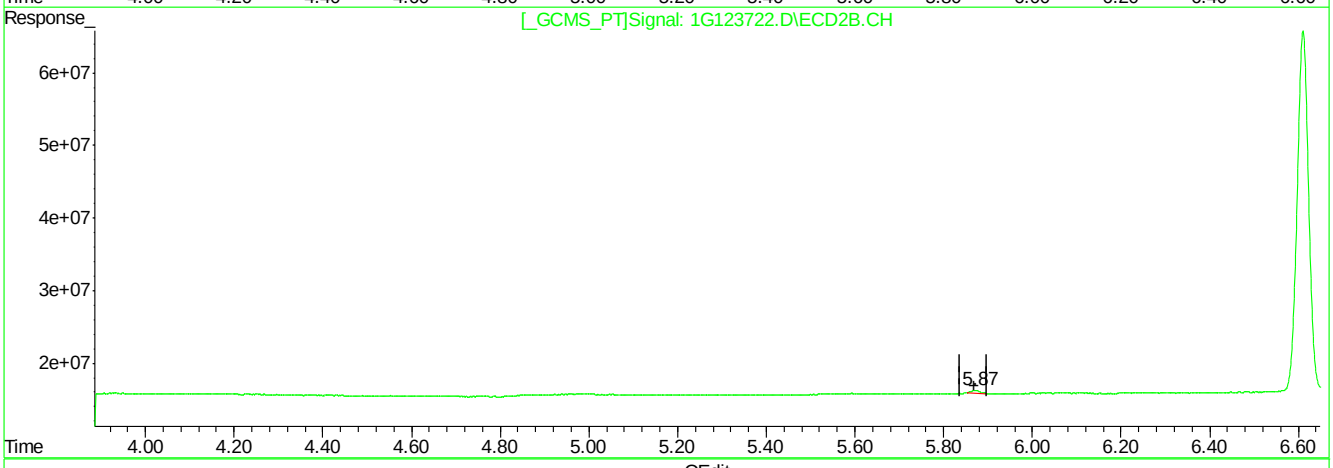
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.66min 0.317PPB m

response 1183215

(13) 4,4'-DDE #2 (B)

5.87min 0.311PPB m

response 5946927

(+) = Expected Retention Time

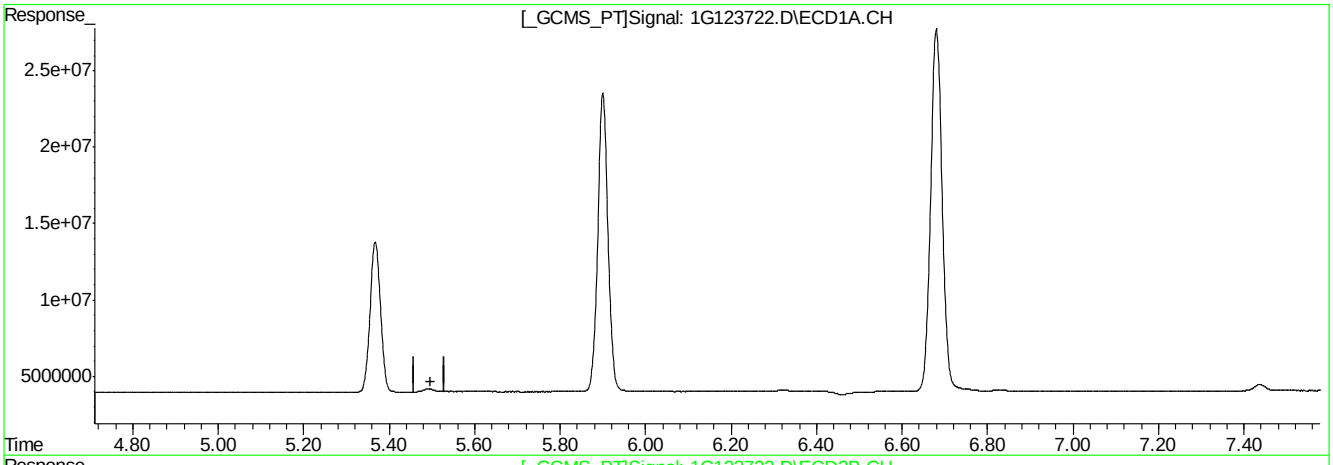
1G123722.D 1PST3988.M Wed Jun 01 10:08:16 2016 RPT1

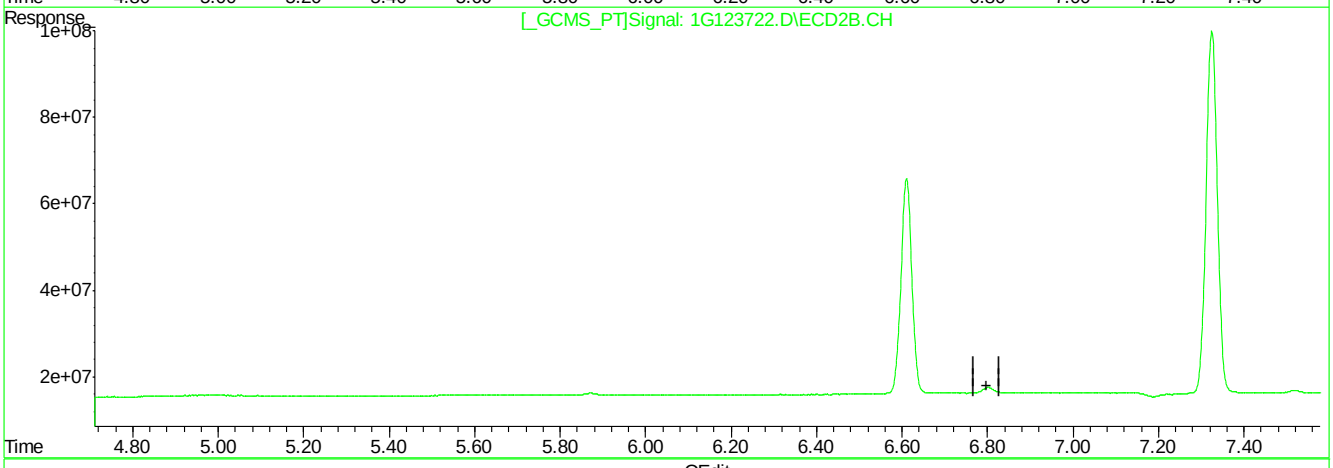
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

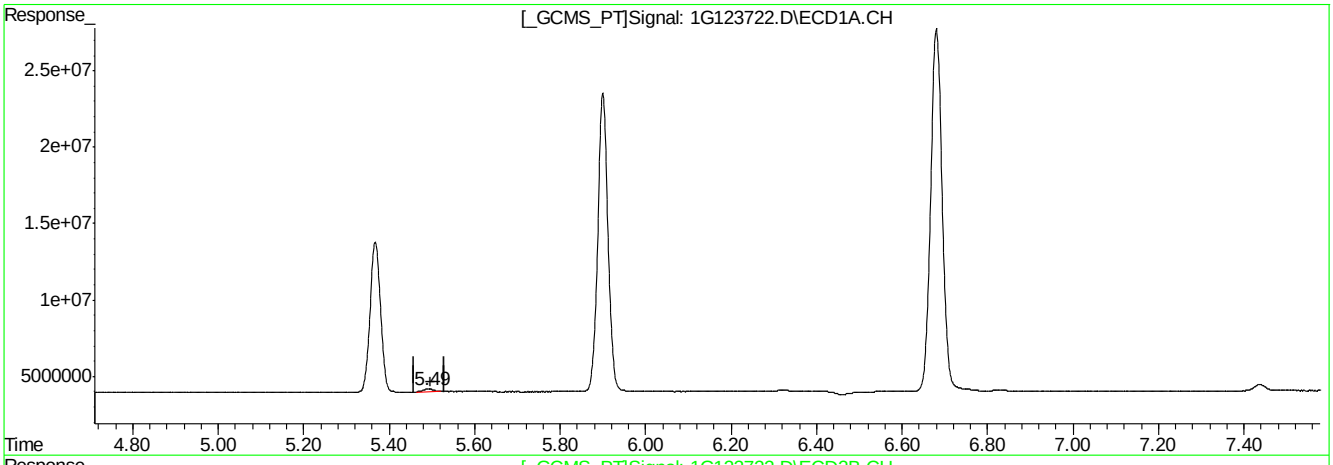
1G123722.D 1PST3988.M Wed Jun 01 10:08:42 2016 RPT1

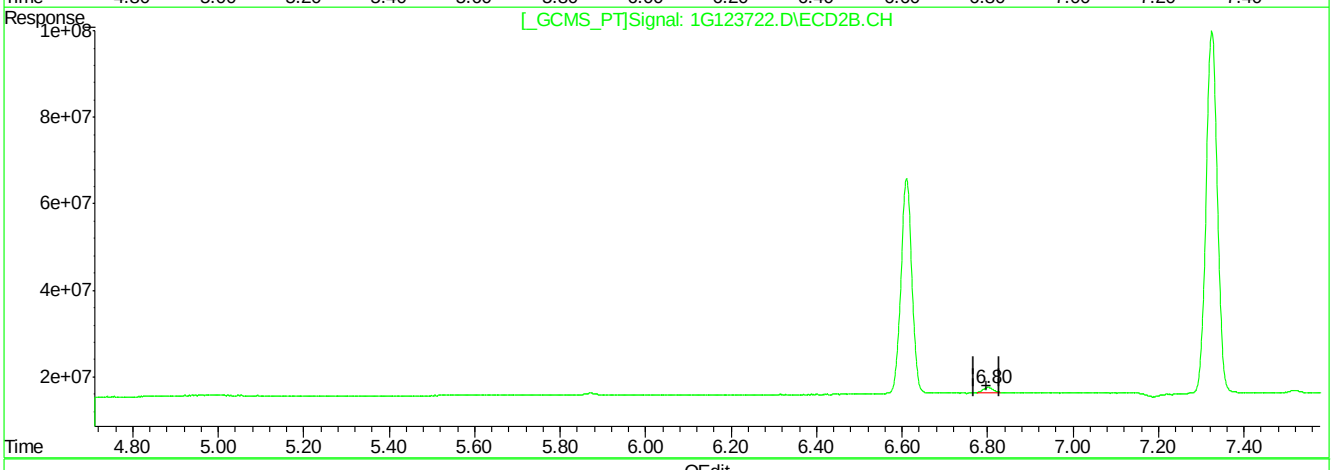
11.5.4.4 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.49min 0.991PPB m

response 2909740

(16) 4,4'-DDD #2 (A)

6.80min 1.196PPB m

response 18847773

(+) = Expected Retention Time

1G123722.D 1PST3988.M Wed Jun 01 10:09:54 2016 RPT1

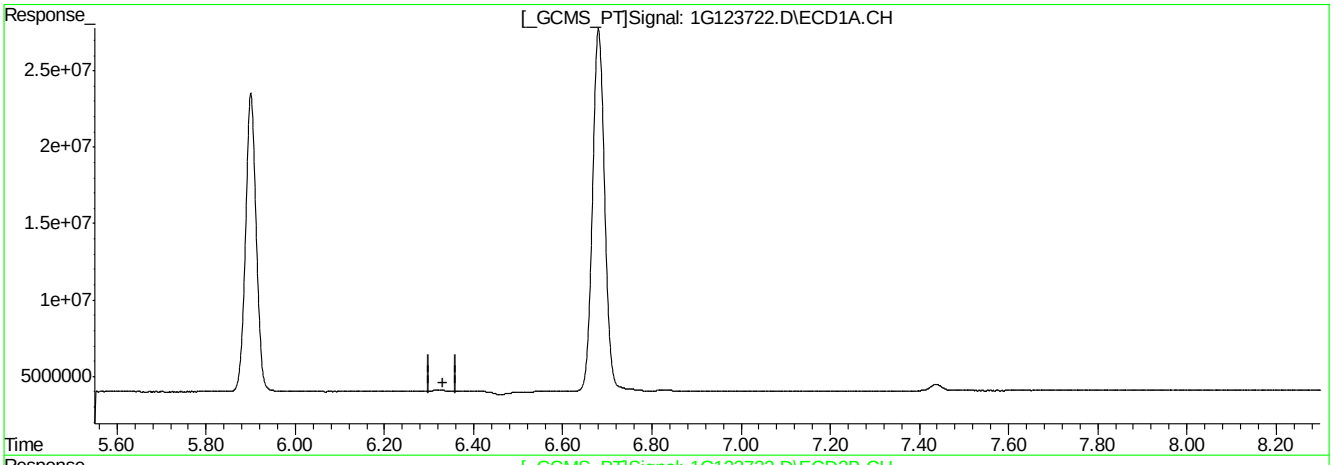
11.5.4.5 11

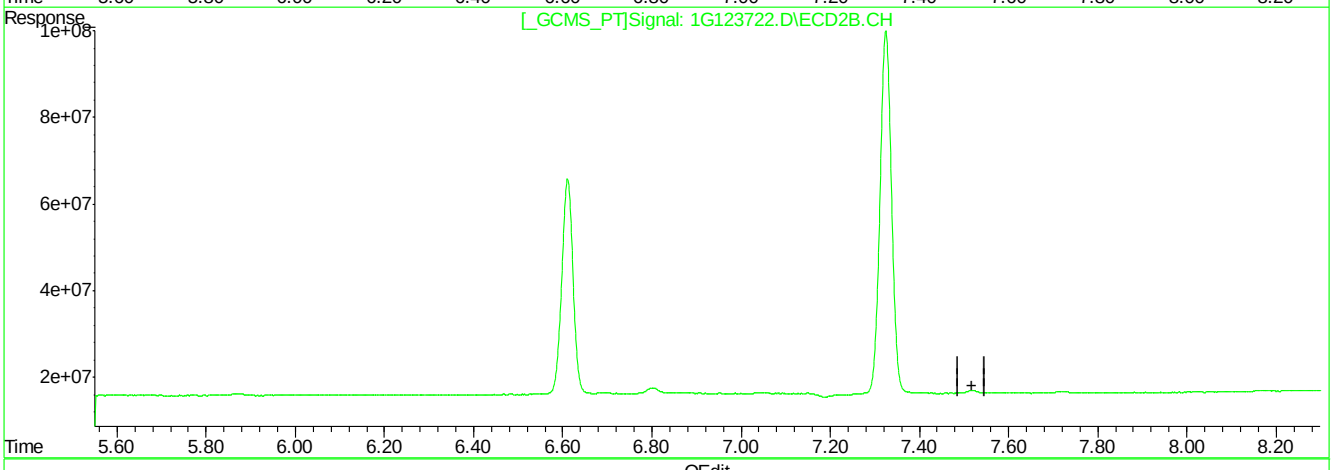
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

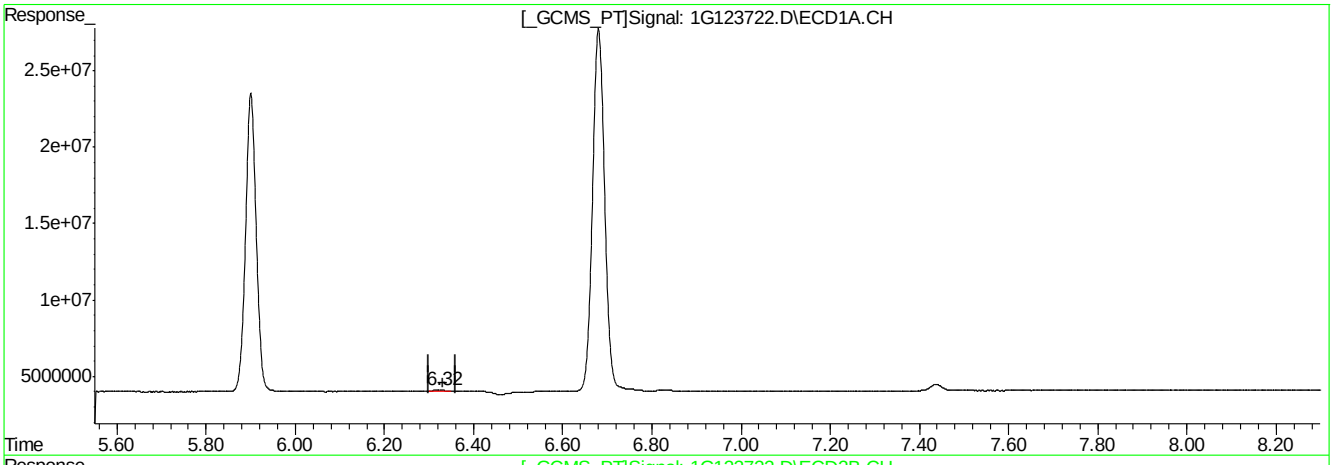
1G123722.D 1PST3988.M Wed Jun 01 10:10:10 2016 RPT1

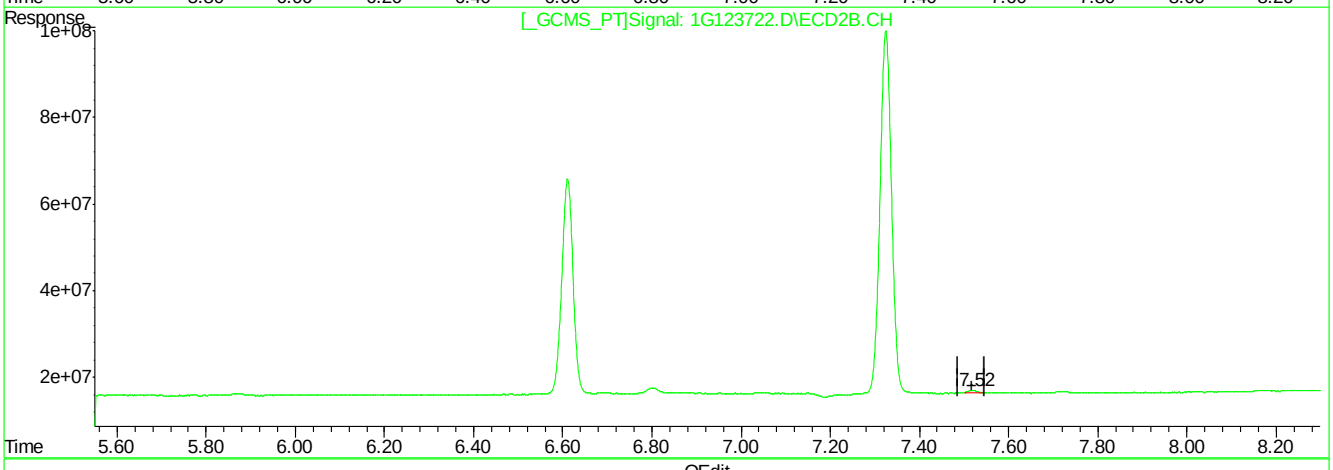
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.32min 0.531PPB m

response 1479250

(19) Endrin Aldehyde #2 (B)

7.52min 0.532PPB m

response 7347066

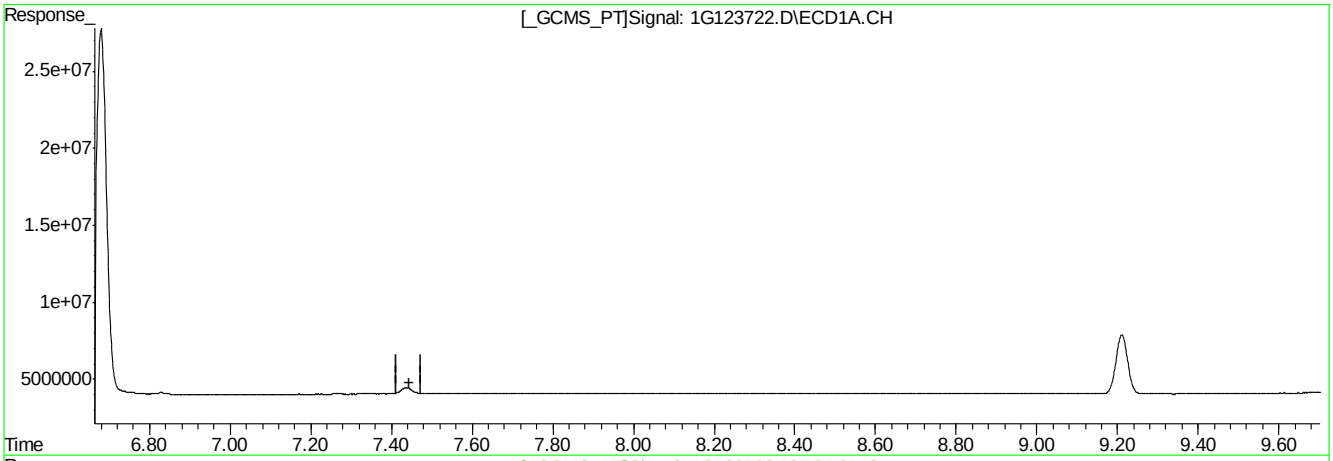
(+) = Expected Retention Time

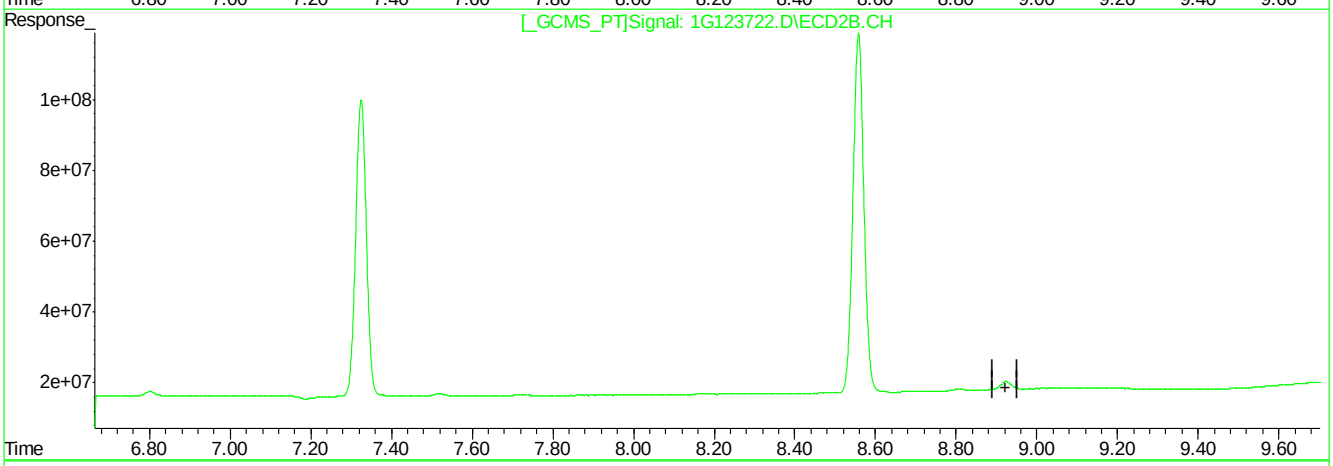
1G123722.D 1PST3988.M Wed Jun 01 10:10:33 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

0.00min 0.000PPB

response 0

(23) Endrin Ketone #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

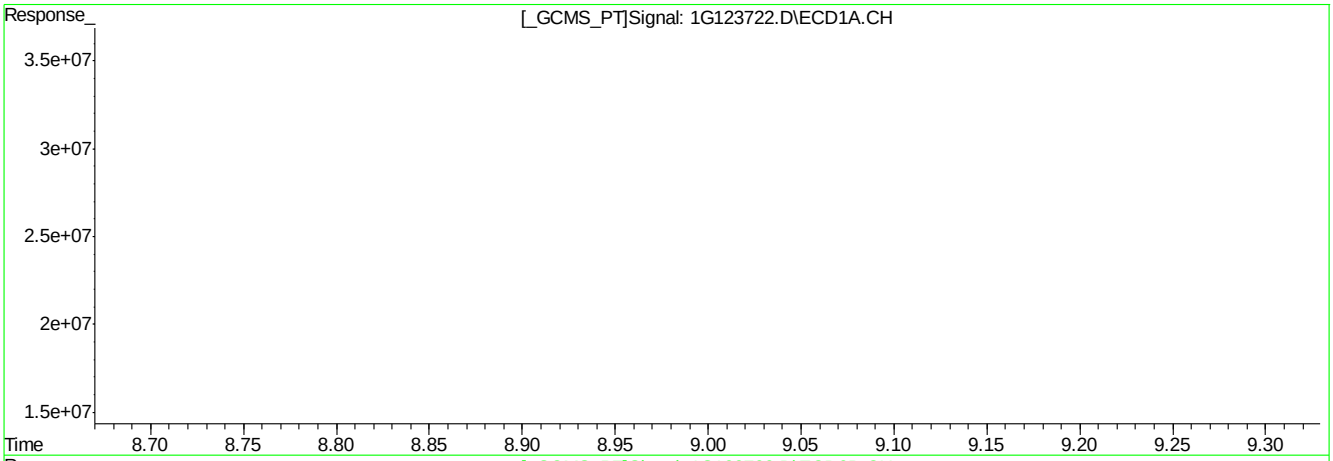
1G123722.D 1PST3988.M Wed Jun 01 10:11:01 2016 RPT1

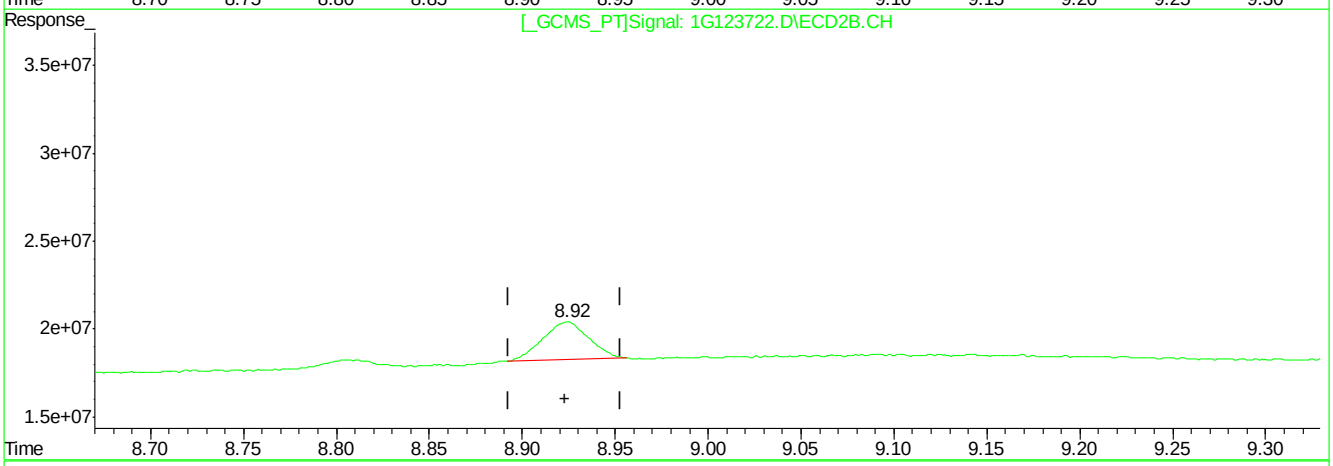
11.5.4.8 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 1.870PPB m

response 7170431

(23) Endrin Ketone #2 (B)

8.92min 2.121PPB m

response 37454702

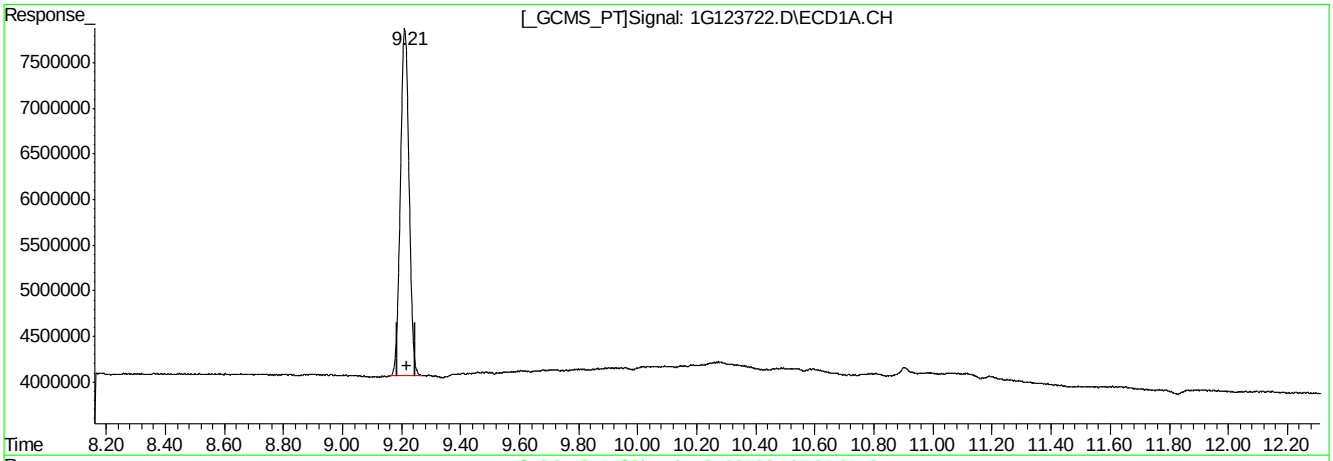
(+) = Expected Retention Time

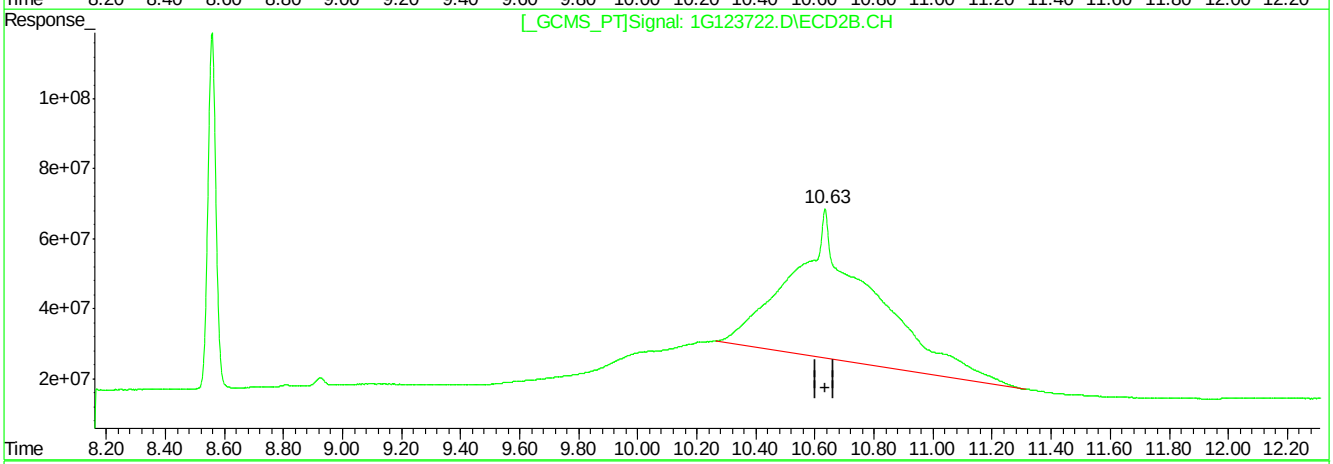
1G123722.D 1PST3988.M Wed Jun 01 10:12:16 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 19.193PPB

response 77569974

(24) Decachlorobiphenyl #2 (SA)

10.63min 628.373PPB

response 8135327793

(+) = Expected Retention Time

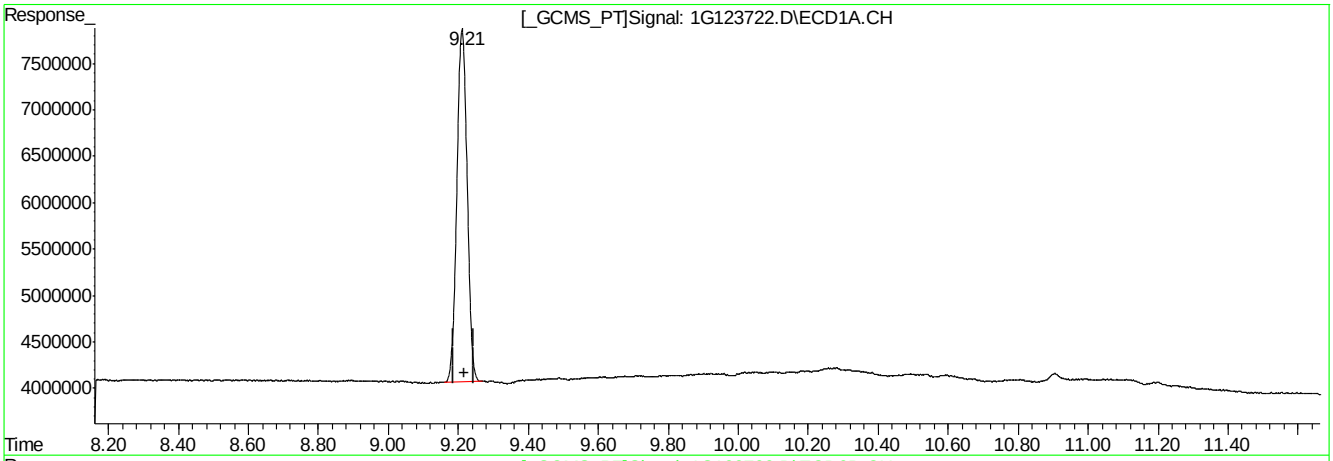
1G123722.D 1PST3988.M Wed Jun 01 10:12:37 2016 RPT1

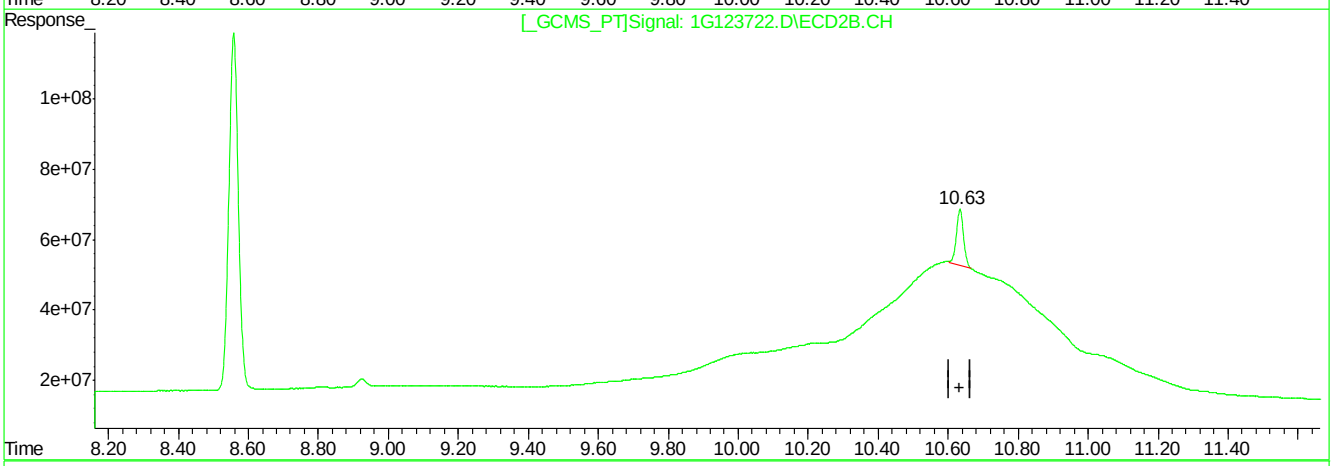
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123722.D\ECD2B.CH
Acq On    : 6-1-16 09:43:01 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94185,g1g4001,16.4,,,10,5             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  1 10:06 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
```





QEdit

(24) Decachlorobiphenyl (SA)

9.21min 19.193PPB

response 77569974

(24) Decachlorobiphenyl #2 (SA)

10.63min 17.323PPB m

response 224268684

(+) = Expected Retention Time

1G123722.D 1PST3988.M Wed Jun 01 10:14:43 2016 RPT1

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
06/02/16 22:39

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On : 6-1-16 06:06:04 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94349,g1g4001,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 2 10:31 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	154.1E6	1044.6E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	154.1E6	1044.6E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	154.1E6	1044.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.28	51432132	348.9E6	18.466	18.774
Spiked Amount	40.000	Range	30 - 150	Recovery	=	46.16%	46.94%
24) SA	Decachlorobiphen	9.23	10.64	79315305	288.4E6	20.947	22.092
Spiked Amount	40.000			Recovery	=	52.37%	55.23%
	Target Compounds						
13) B	4,4'-DDE	4.67	5.87	723759	7479630	0.207m	0.387m
15) MA	Endrin	5.39	6.61	162.2E6	864.7E6	51.405	48.746
16) A	4,4'-DDD	5.51	6.80	2314287	17705828	0.841m	1.114m
18) MA	4,4'-DDT	5.92	7.33	321.9E6	1566.0E6	107.425	100.368
19) B	Endrin Aldehyde	6.34	7.52	1692180	9464686	0.648m	0.679m
23) B	Endrin Ketone	7.46	8.92	7202794	41927834	2.006m	2.354
28) L8	Toxaphene{C}	5.92	0.00	321.9E6	0	4157.525	N.D.

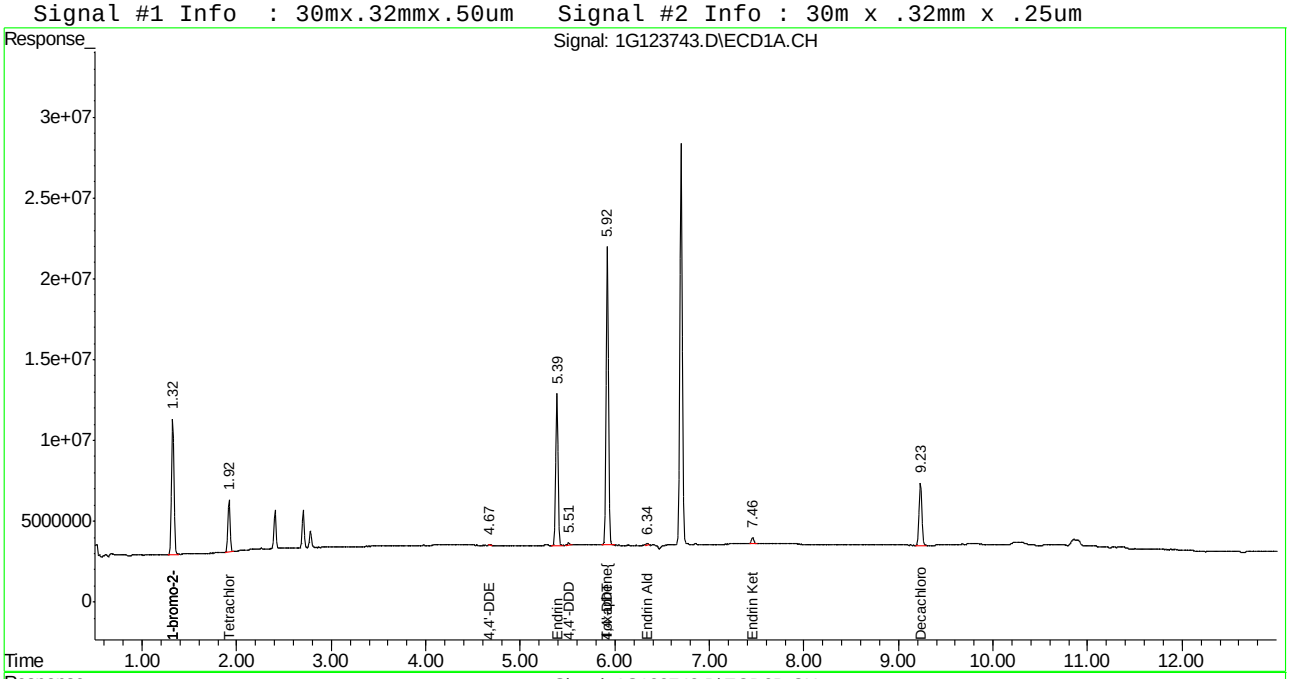
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123743.D 1PST3988.M Thu Jun 02 10:32:34 2016 RPT1 Page 1

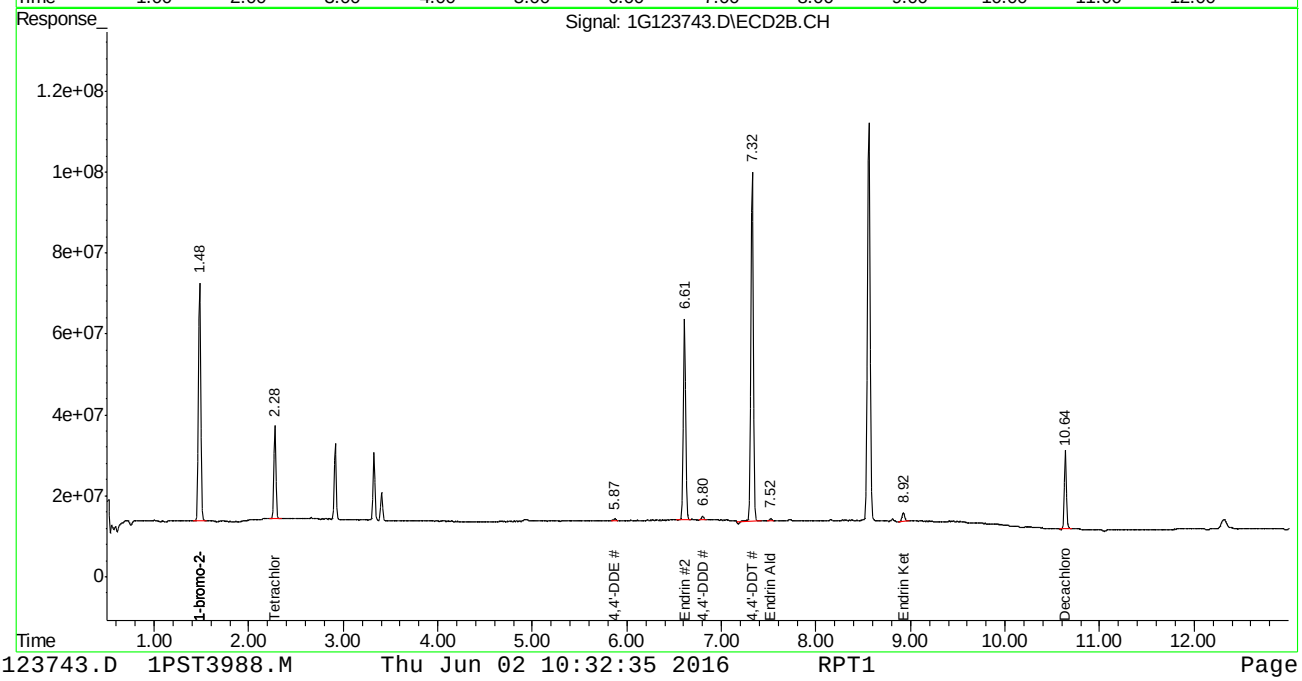
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On : 6-1-16 06:06:04 PM Operator: dharas
Sample : ddt Inst : GC1G
Misc : op94349,g1g4001,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 2 10:31 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

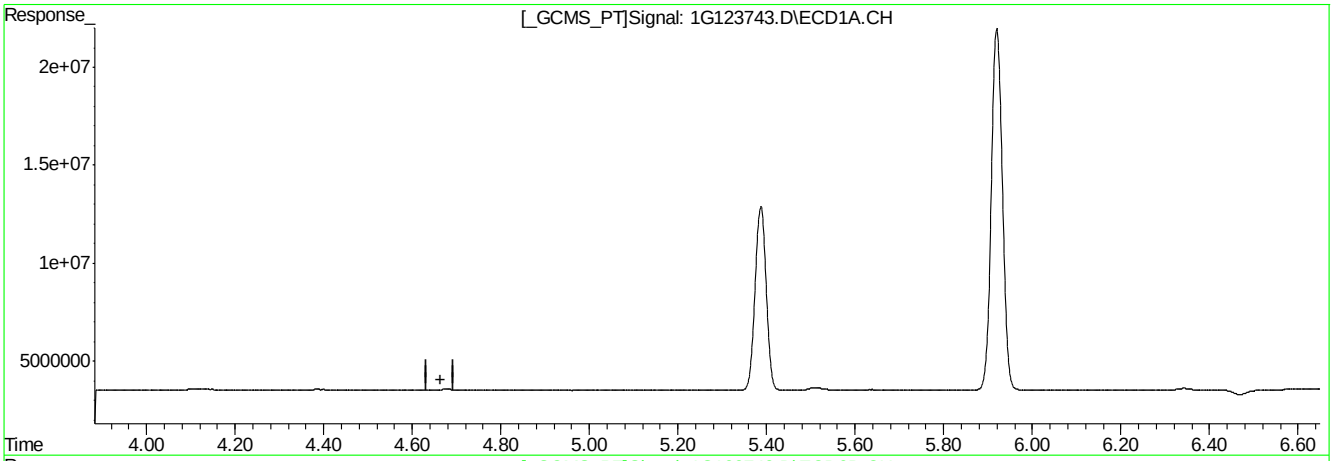
Sample Number:	G1G4001-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123743.D	**Analyst approved:**	06/02/16 10:36 Kristen Drake
Injection Time:	06/01/16 18:06	**Supervisor approved:**	06/02/16 22:39 Jennifer Laidlaw

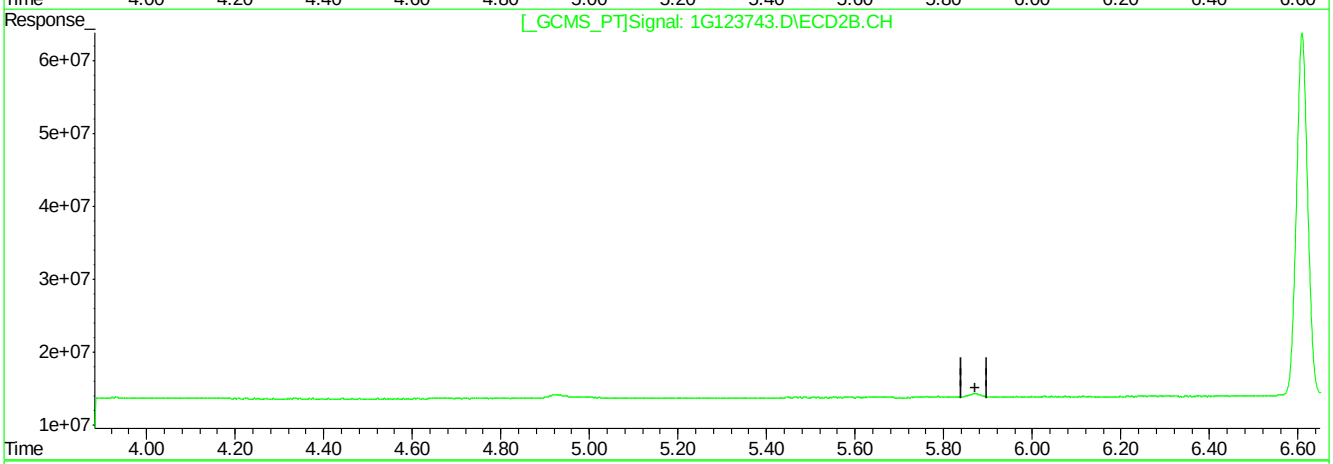
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.67	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.51	Poorly defined baseline
4,4'-DDE	72-55-9	2	5.87	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.34	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.80	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.46	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	7.52	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

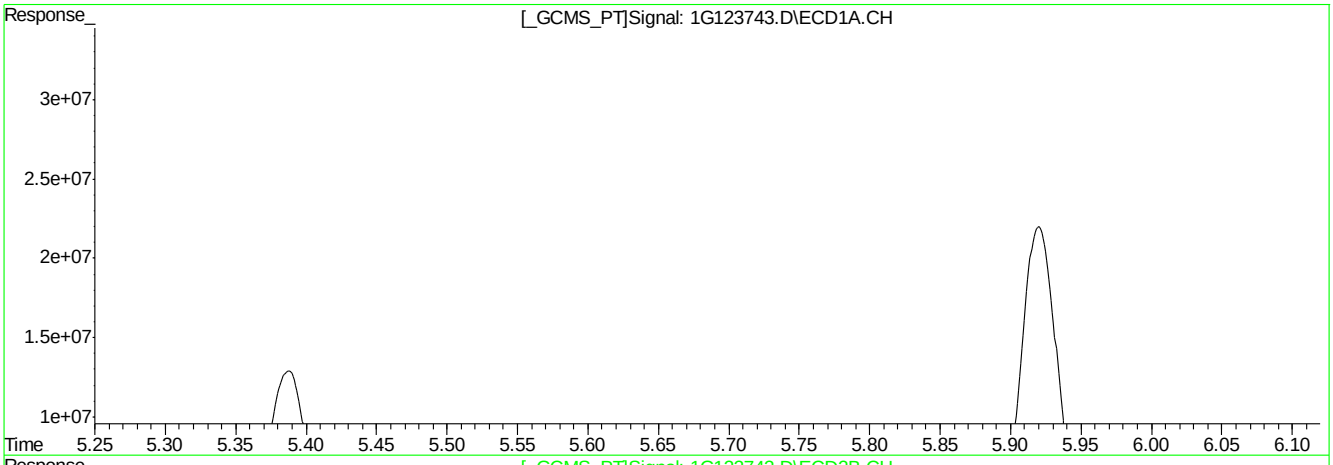
(+) = Expected Retention Time

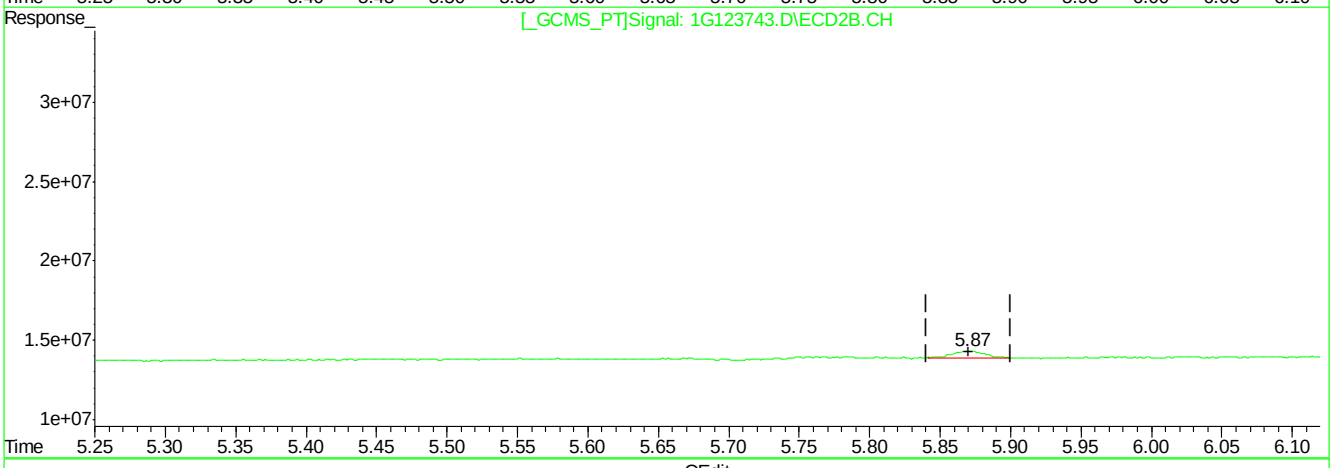
1G123743.D 1PST3988.M Thu Jun 02 10:29:46 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.67min 0.207PPB m

response 723759

(13) 4,4'-DDE #2 (B)

5.87min 0.387PPB m

response 7479630

(+) = Expected Retention Time

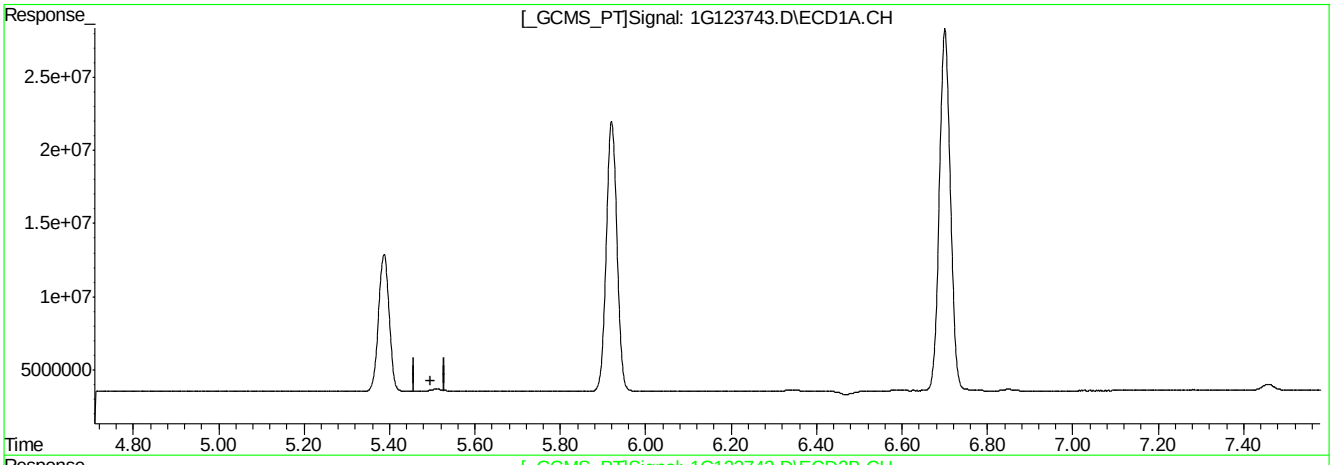
1G123743.D 1PST3988.M Thu Jun 02 10:30:22 2016 RPT1

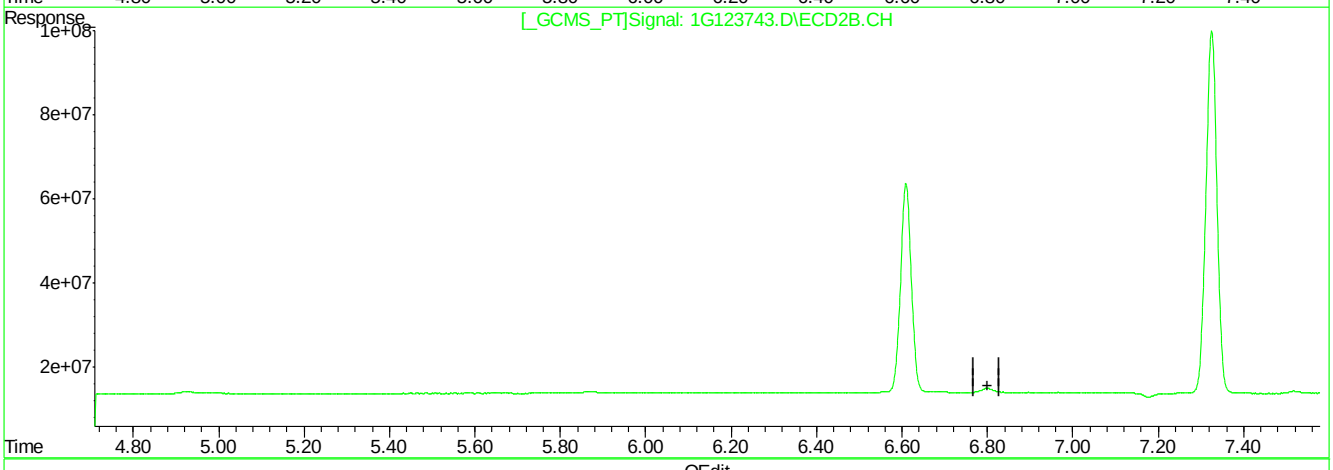
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

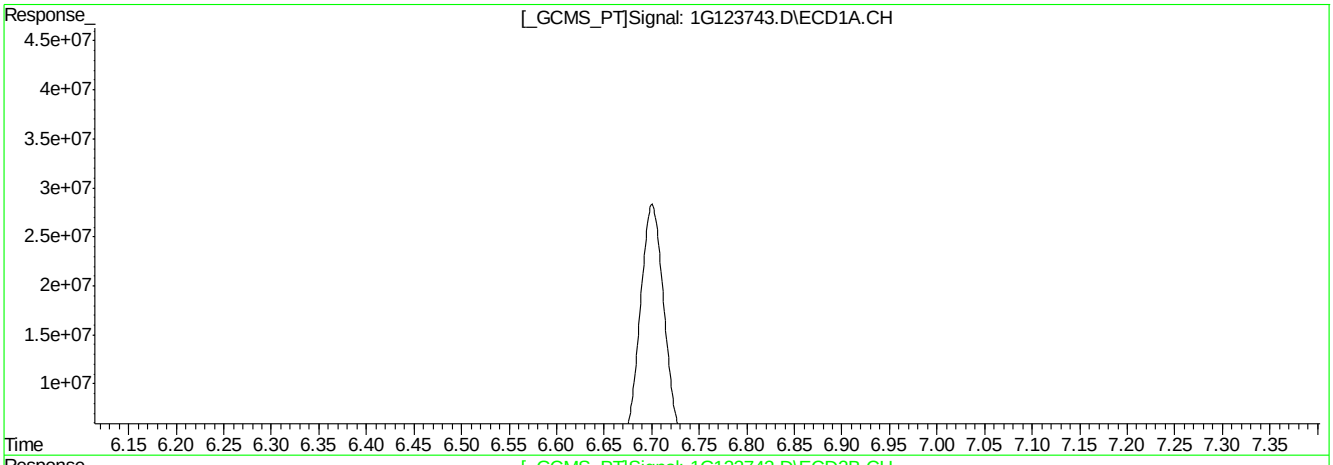
1G123743.D 1PST3988.M Thu Jun 02 10:30:31 2016 RPT1

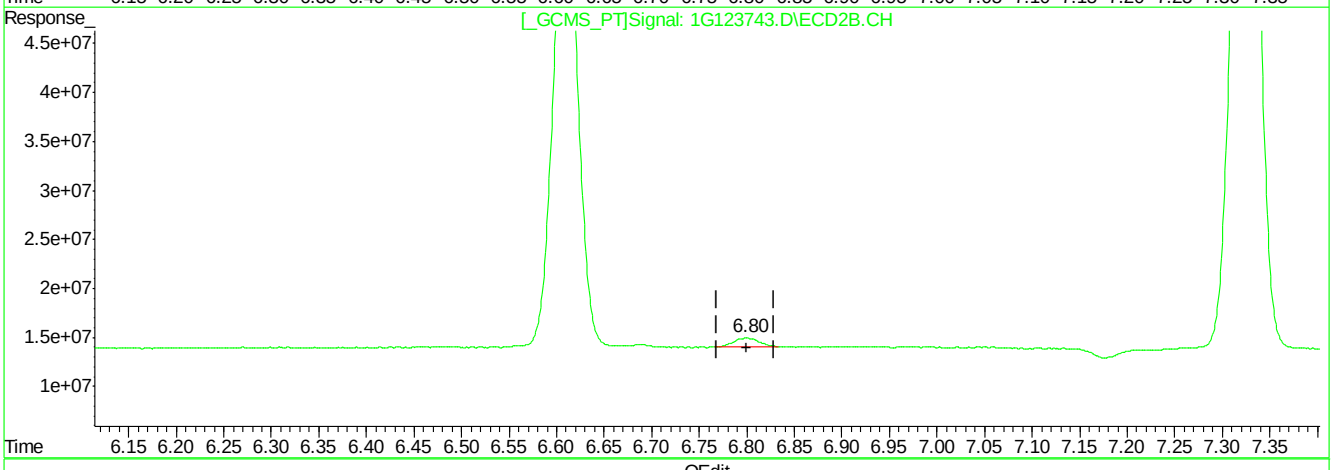
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.51min 0.841PPB m

response 2314287

(16) 4,4'-DDD #2 (A)

6.80min 1.114PPB m

response 17705828

(+) = Expected Retention Time

1G123743.D 1PST3988.M Thu Jun 02 10:30:58 2016 RPT1

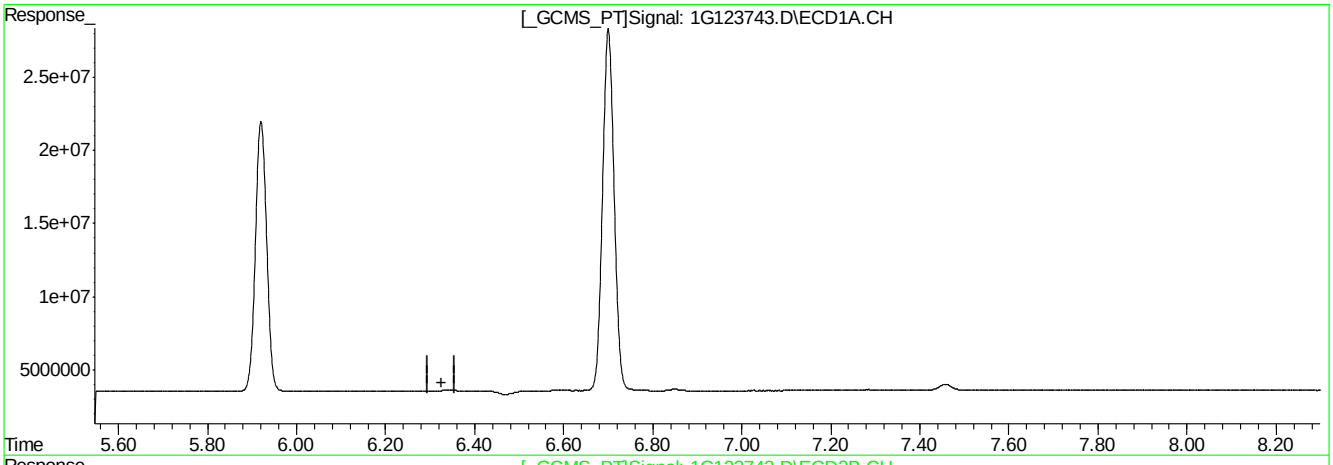
11.5.5.5

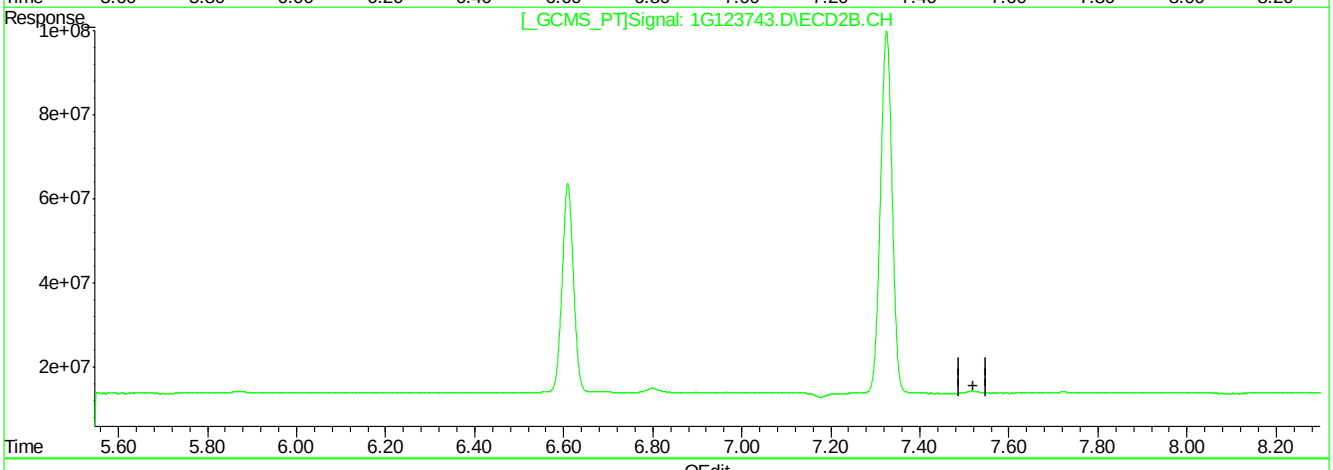
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

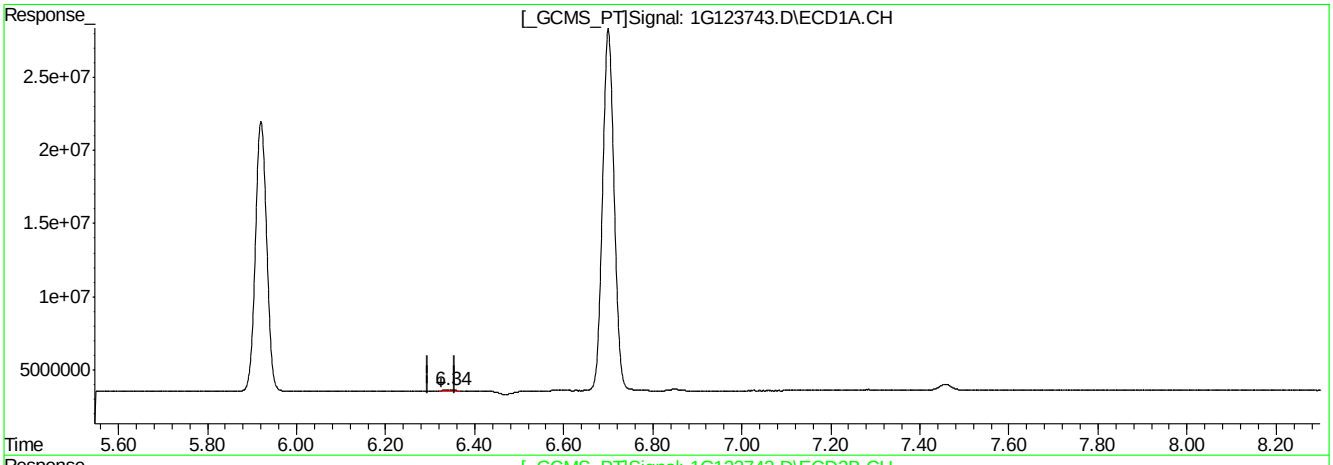
(+) = Expected Retention Time

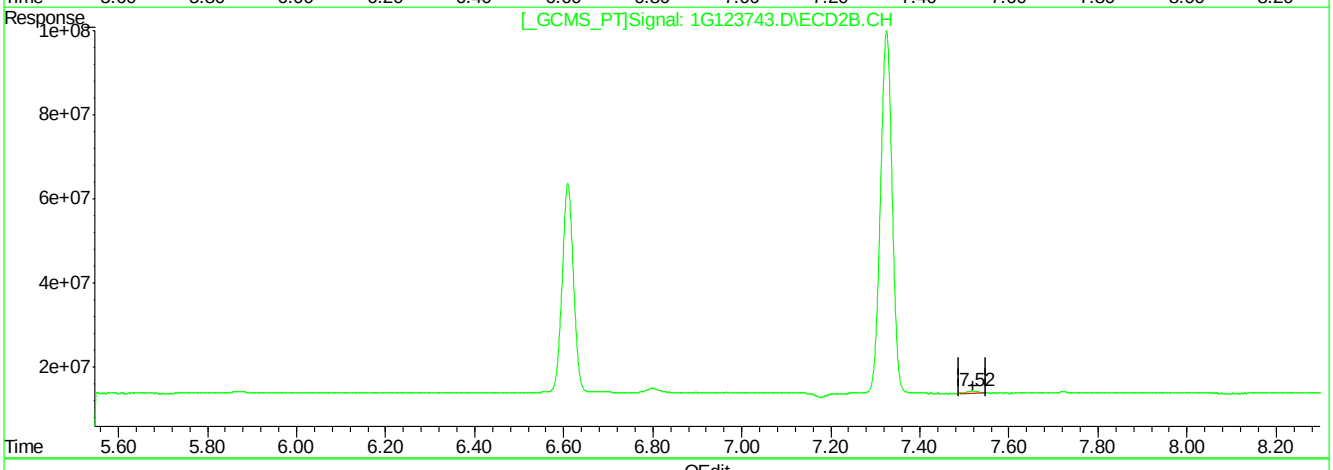
1G123743.D 1PST3988.M Thu Jun 02 10:31:11 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.34min 0.648PPB m

response 1692180

(19) Endrin Aldehyde #2 (B)

7.52min 0.679PPB m

response 9464686

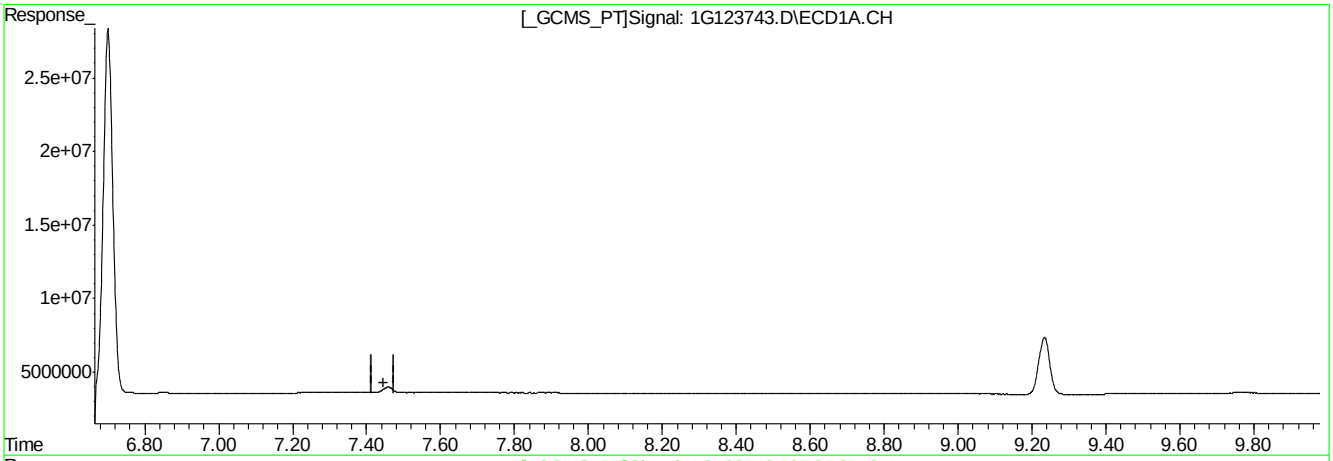
(+) = Expected Retention Time

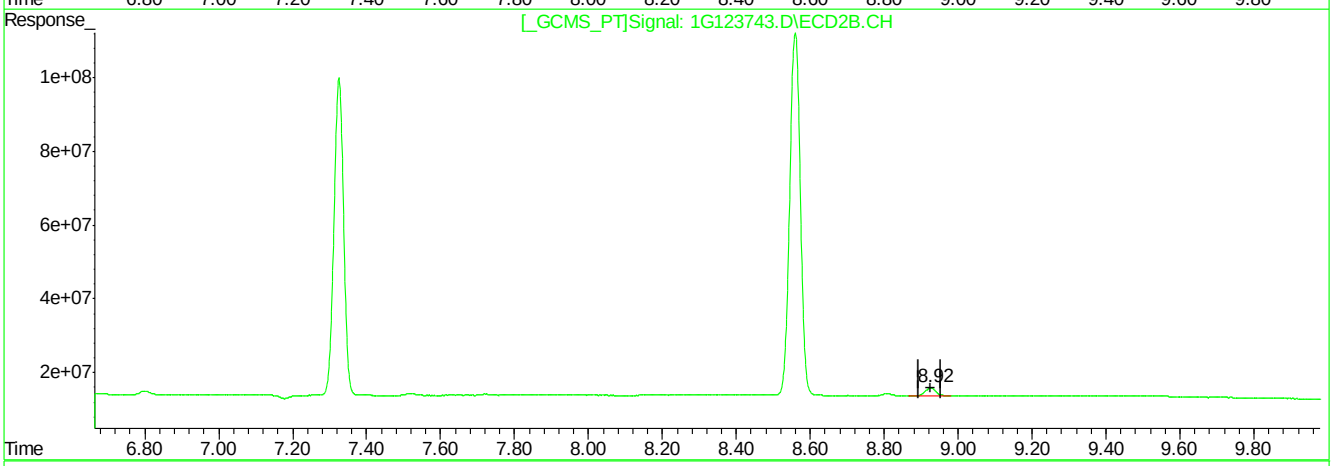
1G123743.D 1PST3988.M Thu Jun 02 10:31:33 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                       Operator: dharas
Sample    : ddt                                      Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1              Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

0.00min 0.000PPB

response 0

(23) Endrin Ketone #2 (B)

8.92min 2.354PPB

response 41927834

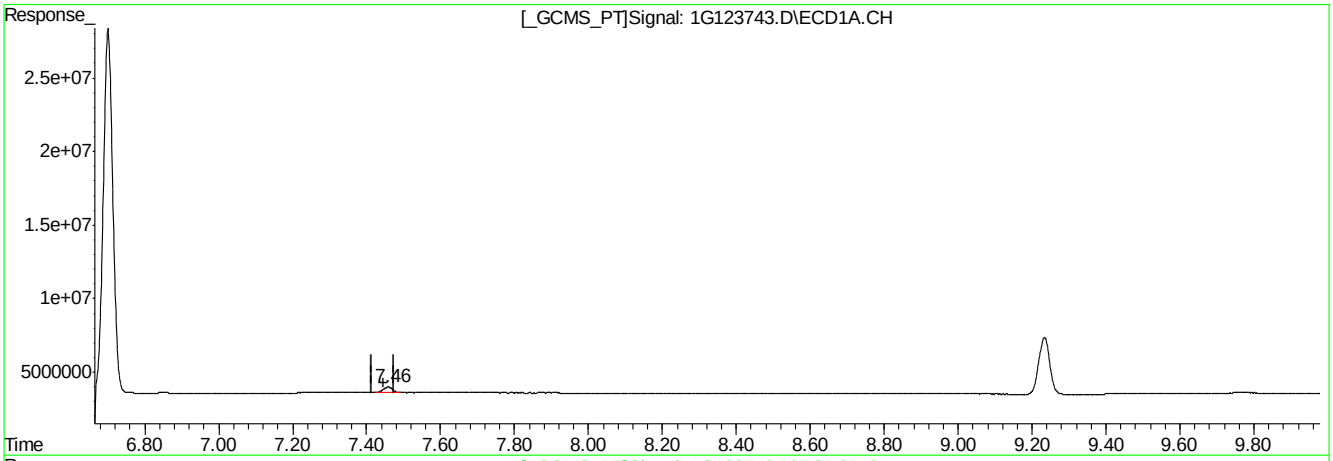
(+) = Expected Retention Time

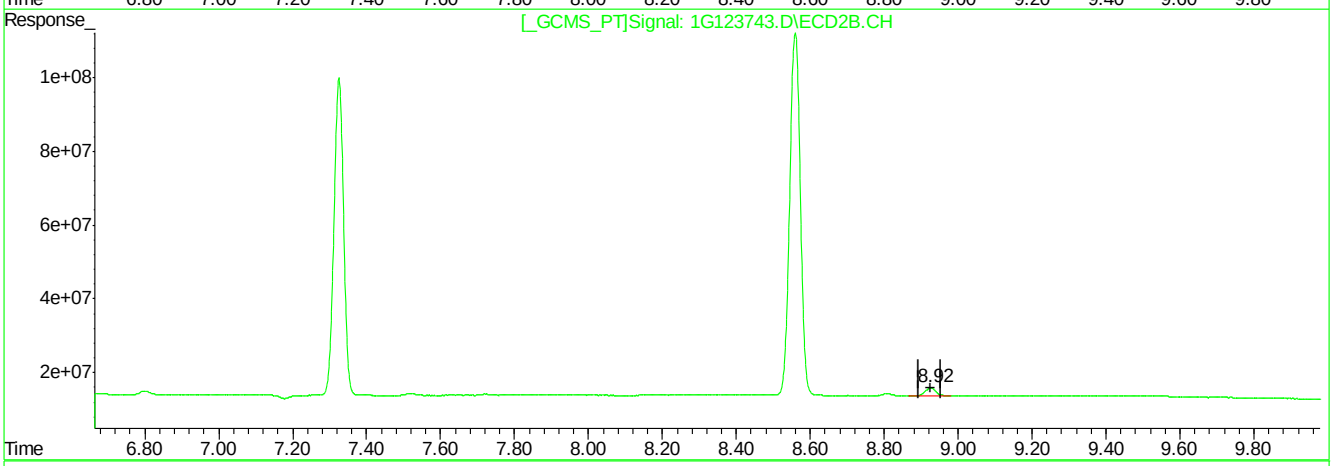
1G123743.D 1PST3988.M Thu Jun 02 10:31:48 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123743.D\ECD2B.CH
Acq On    : 6-1-16 06:06:04 PM                      Operator: dharas
Sample    : ddt                                     Inst    : GC1G
Misc      : op94349,g1g4001,1000,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  2 10:29 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.46min 2.006PPB m

response 7202794

(23) Endrin Ketone #2 (B)

8.92min 2.354PPB

response 41927834

(+) = Expected Retention Time

1G123743.D 1PST3988.M Thu Jun 02 10:31:56 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/03/16 14:12

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On : 6-3-16 09:39:32 AM Operator: kristend
Sample : ddt Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	168.7E6	1099.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	168.7E6	1099.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	168.7E6	1099.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	57082412	357.7E6	18.720	18.284
Spiked Amount	40.000	Range	30 - 150	Recovery	=	46.80%	45.71%
24) SA	Decachlorobiphen	9.21	10.66	79684030	287.1E6	19.221	20.889
Spiked Amount	40.000			Recovery	=	48.05%	52.22%
	Target Compounds						
13) B	4,4'-DDE	4.66	5.88	3209301	23119091	0.837m	1.137m
15) MA	Endrin	5.37	6.62	176.7E6	922.6E6	51.161	49.404
16) A	4,4'-DDD	5.49	6.82	2949746	18455095	0.979m	1.103m
18) MA	4,4'-DDT	5.91	7.34	331.4E6	1592.9E6	101.000	96.977
19) B	Endrin Aldehyde	6.33	7.53	1638242	9426789	0.573m	0.643m
23) B	Endrin Ketone	7.44	8.94	6719943	36642723	1.709m	1.954m

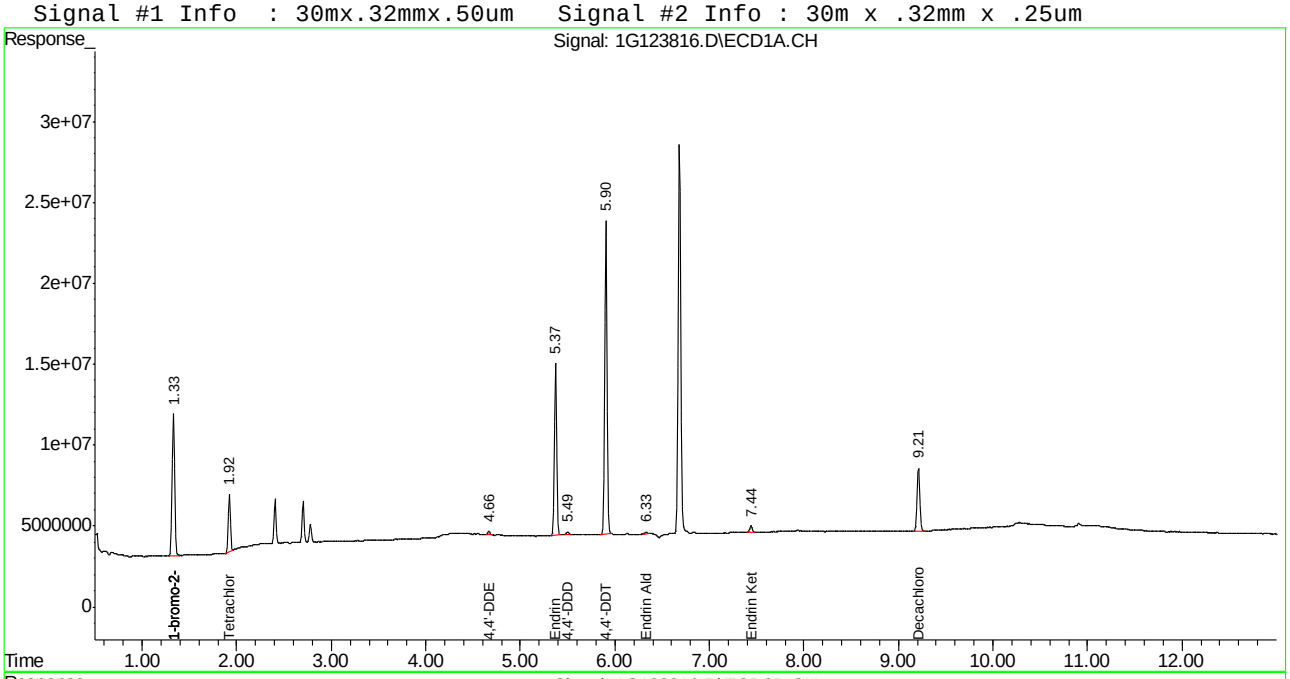
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123816.D 1PST3988.M Fri Jun 03 10:05:33 2016 RPT1 Page 1

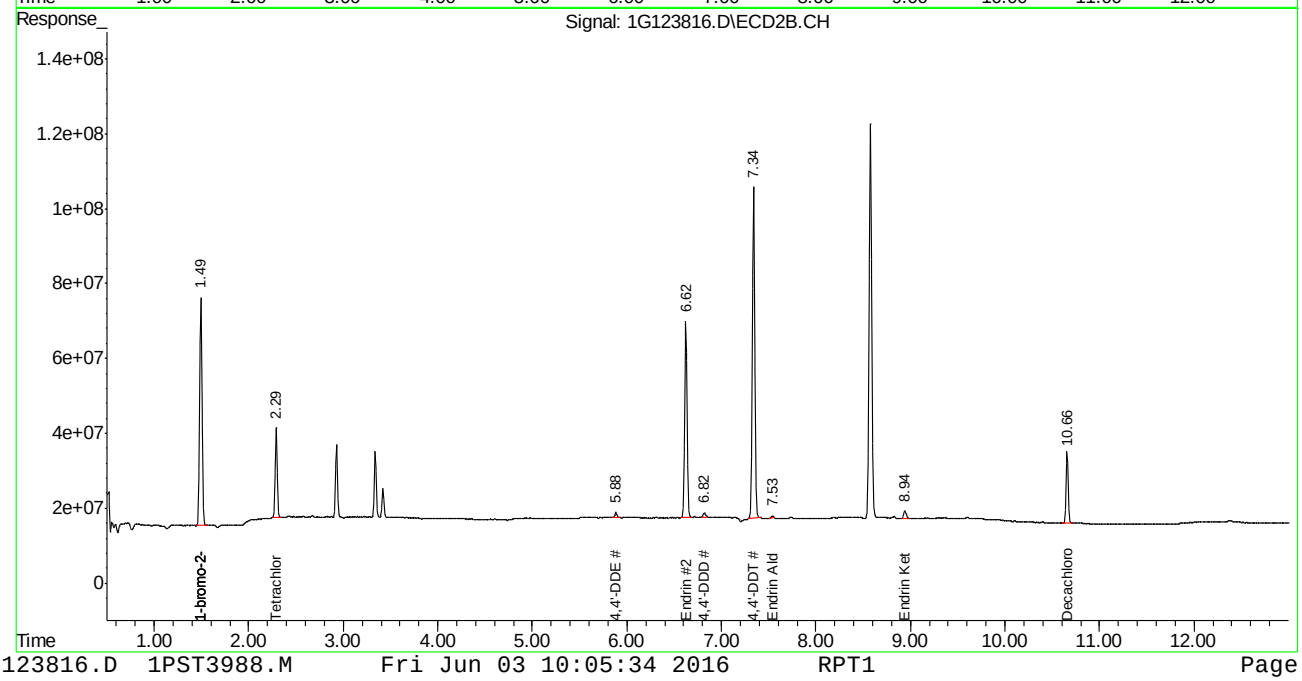
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On : 6-3-16 09:39:32 AM Operator: kristend
Sample : ddt Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:05 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

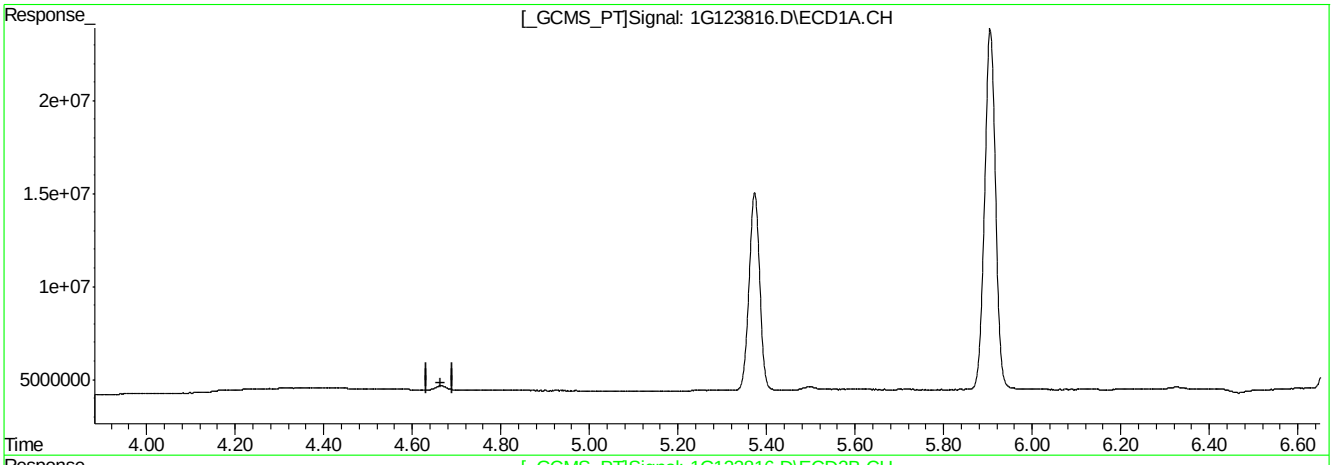
Sample Number:	G1G4003-DDT	**Method:**	SW846 8081B
Lab FileID:	1G123816.D	**Analyst approved:**	06/03/16 10:39 Kristen Drake
Injection Time:	06/03/16 09:39	**Supervisor approved:**	06/03/16 14:12 Gwendolyn Burns

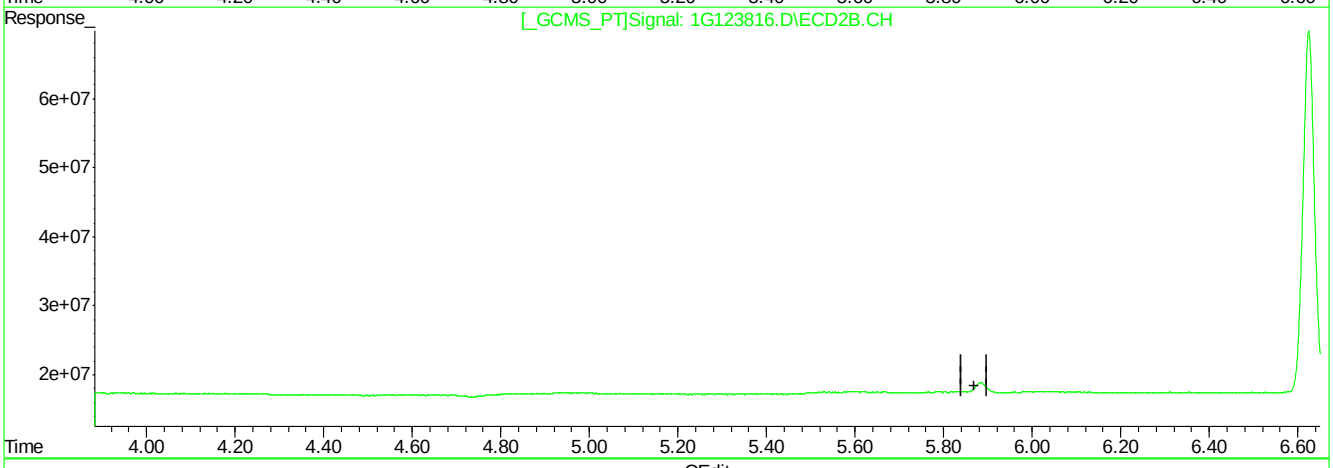
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	4.66	Poorly defined baseline
4,4'-DDD	72-54-8	1	5.49	Poorly defined baseline
4,4'-DDE	72-55-9	2	5.88	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.33	Poorly defined baseline
4,4'-DDD	72-54-8	2	6.82	Poorly defined baseline
Endrin ketone	53494-70-5	1	7.44	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	7.53	Poorly defined baseline
Endrin ketone	53494-70-5	2	8.94	Poorly defined baseline

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

0.00min 0.000PPB

response 0

(13) 4,4'-DDE #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:01:50 2016 RPT1

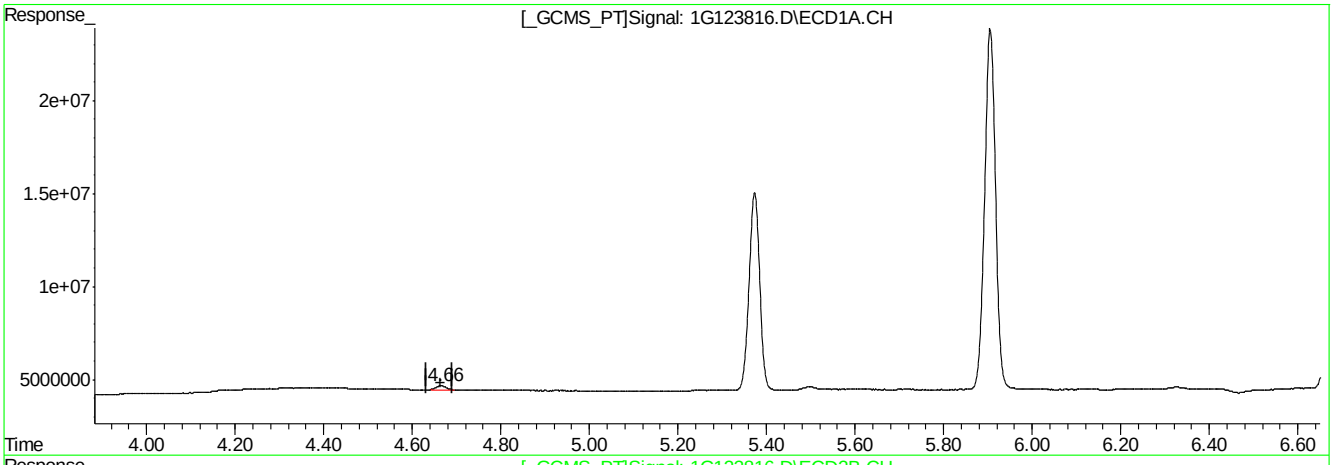
11.5.6.2 11

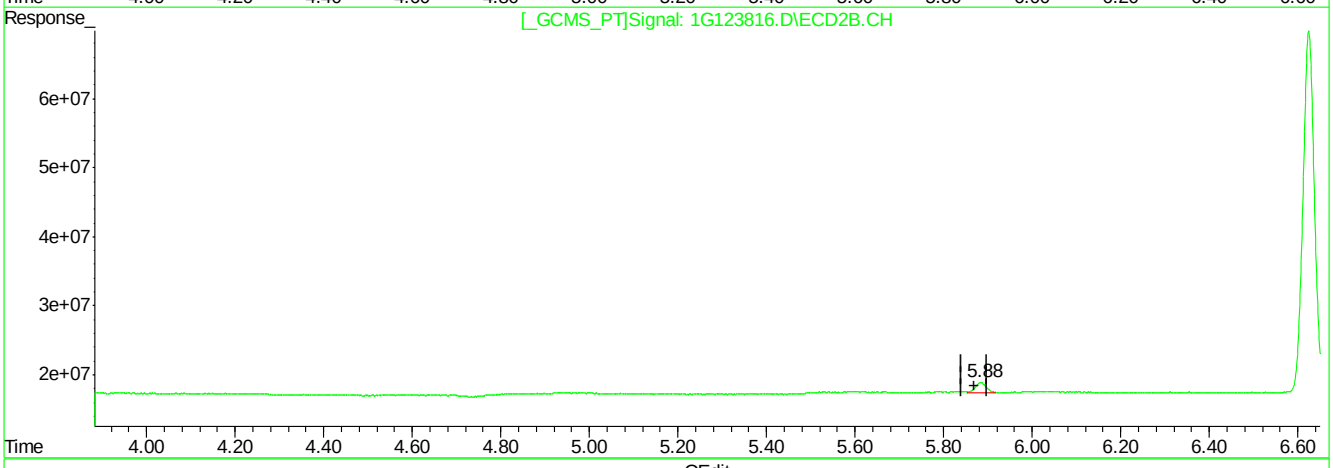
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(13) 4,4'-DDE (B)

4.66min 0.837PPB m

response 3209301

(13) 4,4'-DDE #2 (B)

5.88min 1.137PPB m

response 23119091

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:02:22 2016 RPT1

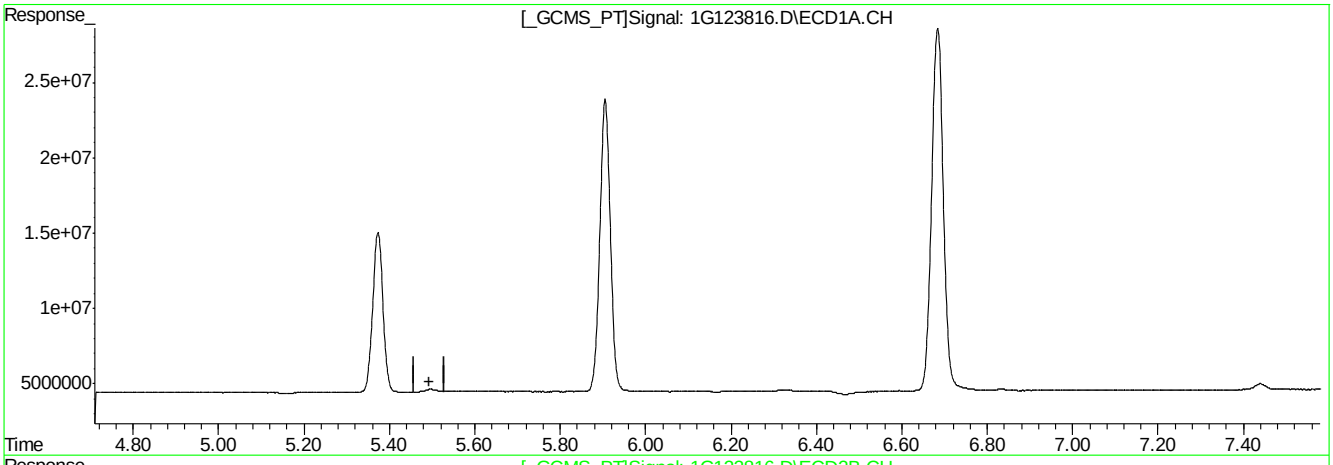
11.5.6.3

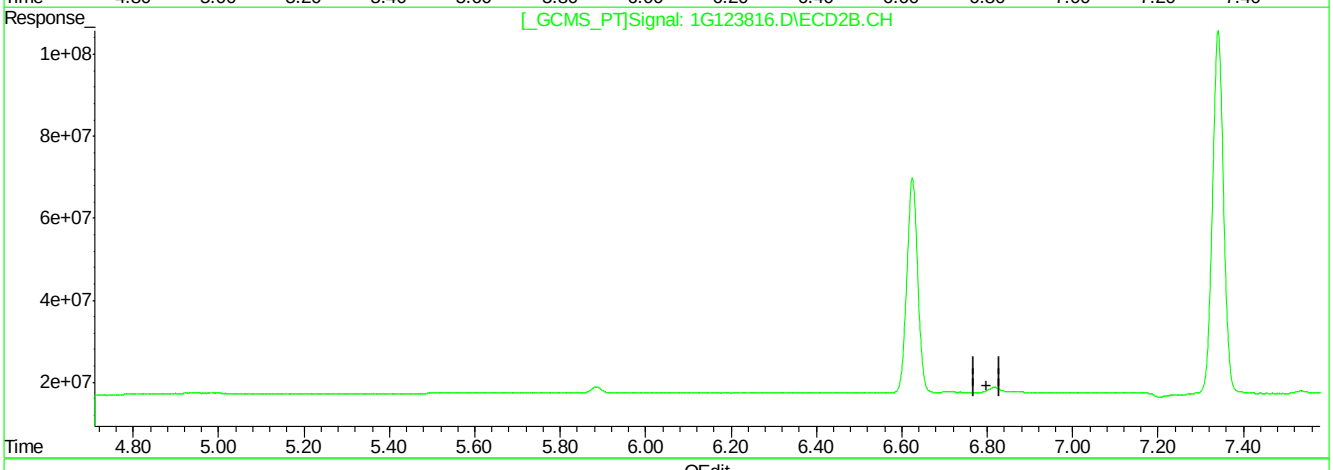
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

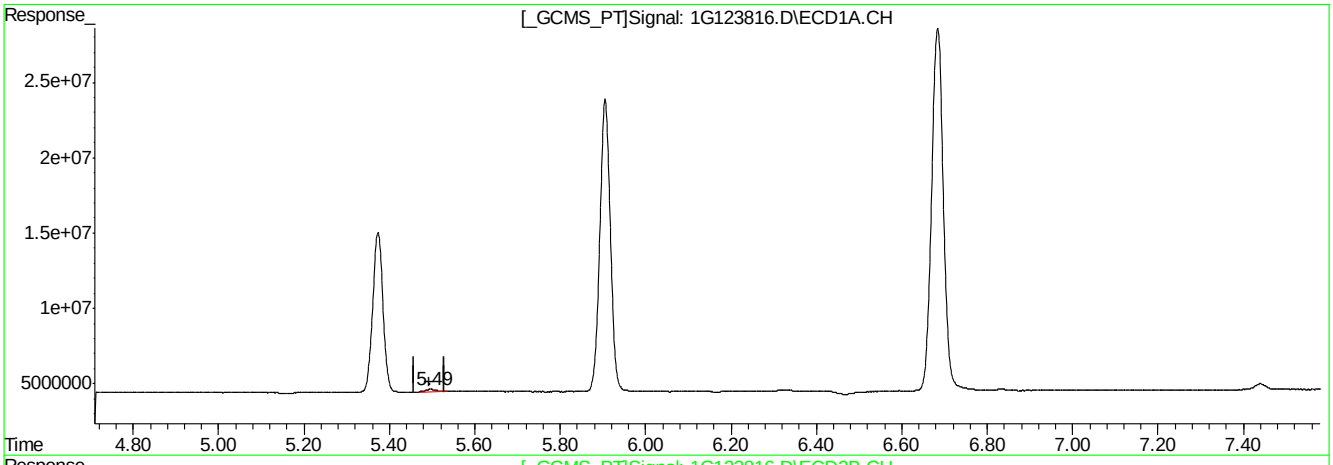
1G123816.D 1PST3988.M Fri Jun 03 10:02:31 2016 RPT1

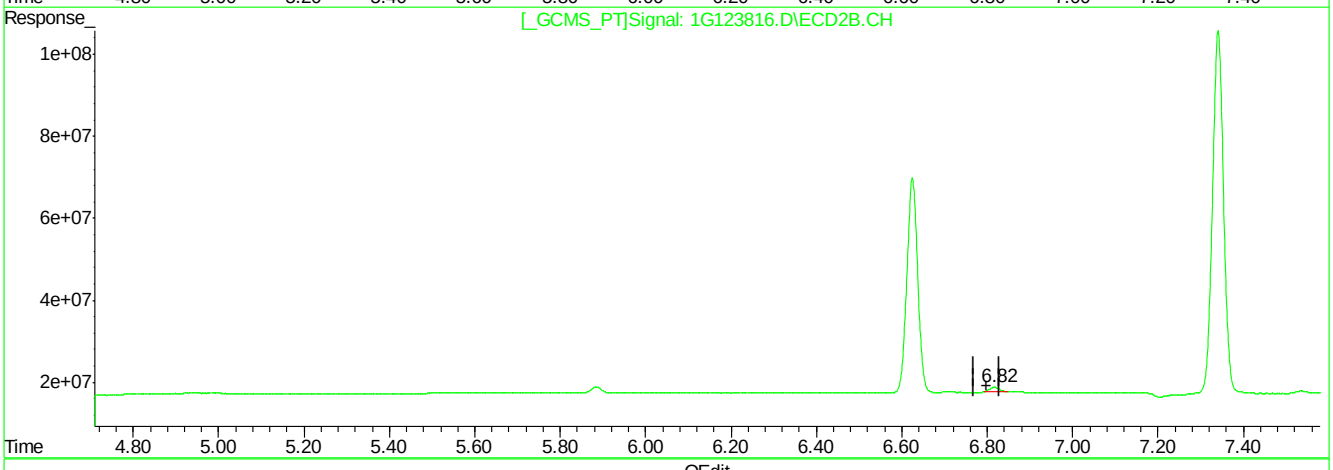
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(16) 4,4'-DDD (A)

5.49min 0.979PPB m

response 2949746

(16) 4,4'-DDD #2 (A)

6.82min 1.103PPB m

response 18455095

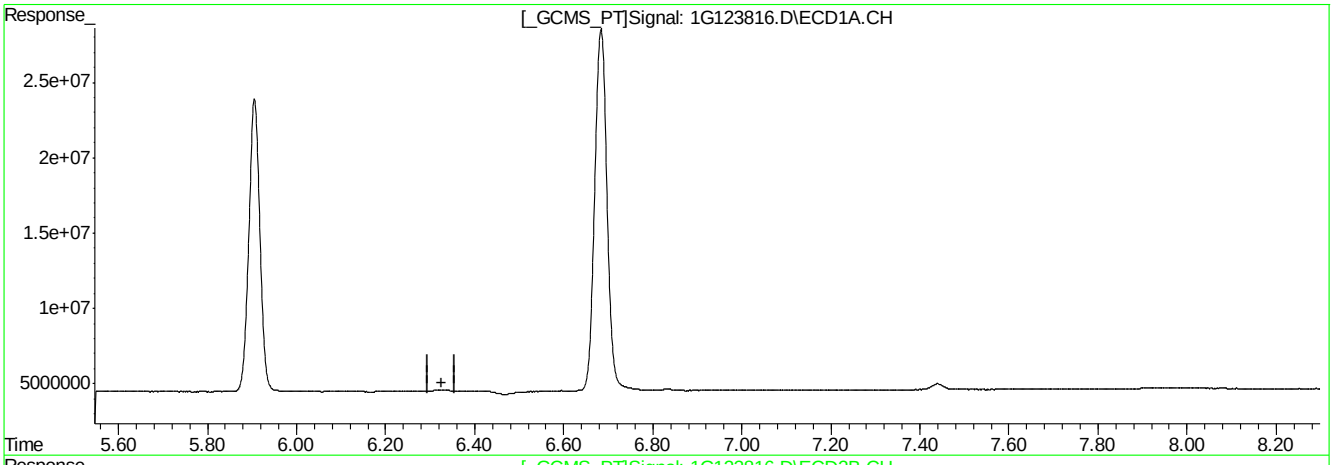
(+) = Expected Retention Time

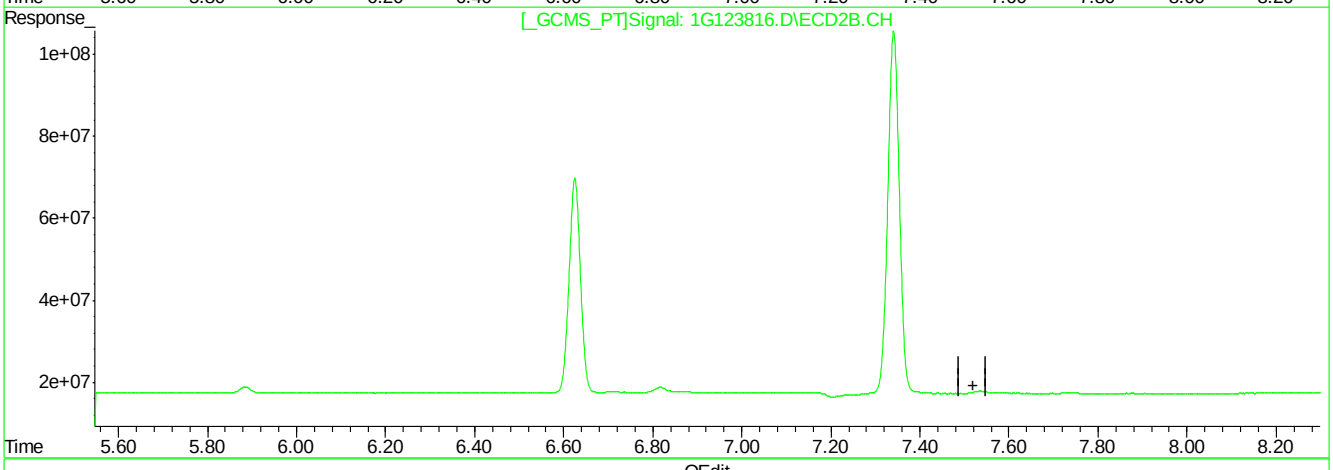
1G123816.D 1PST3988.M Fri Jun 03 10:03:29 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:03:38 2016 RPT1

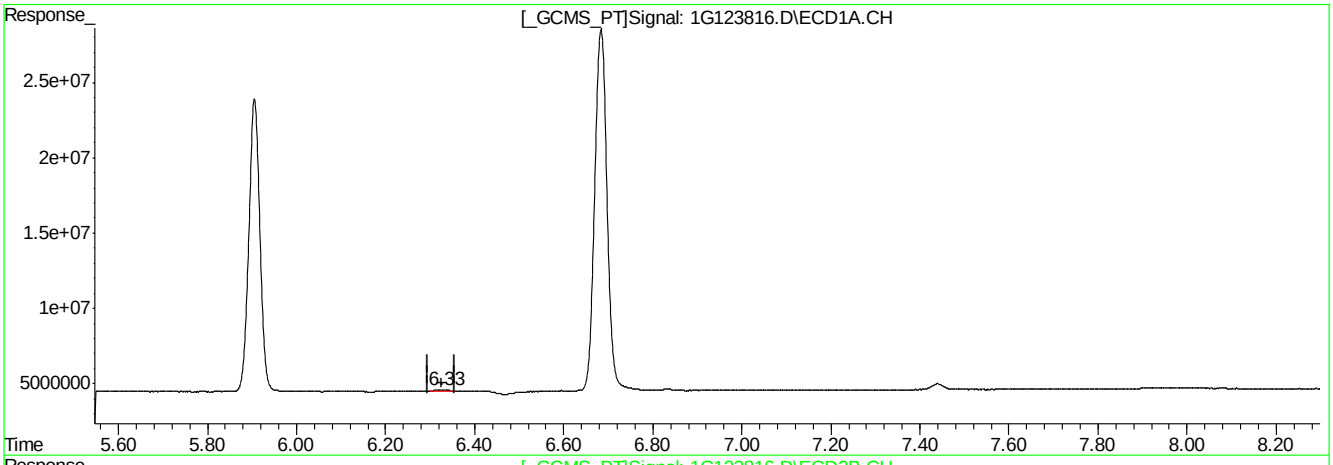
11.5.6.6

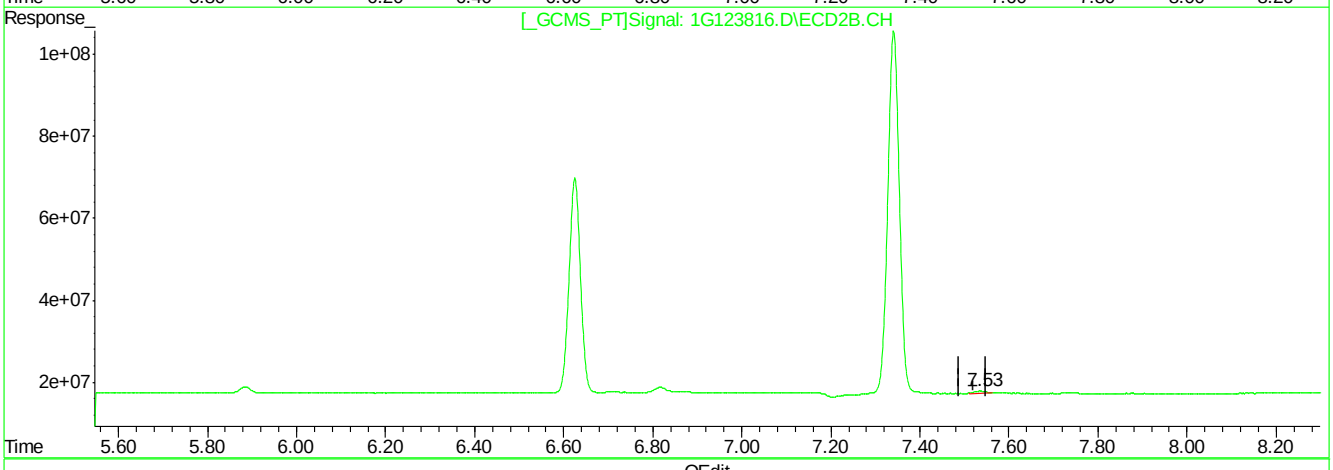
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

6.33min 0.573PPB m

response 1638242

(19) Endrin Aldehyde #2 (B)

7.53min 0.643PPB m

response 9426789

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:04:00 2016 RPT1

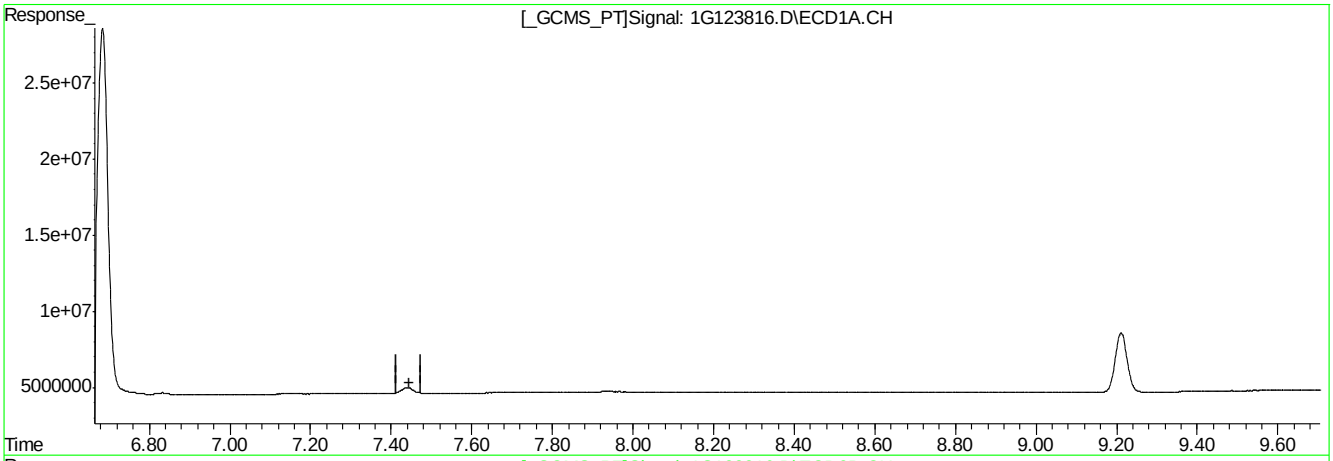
11.5.6.7

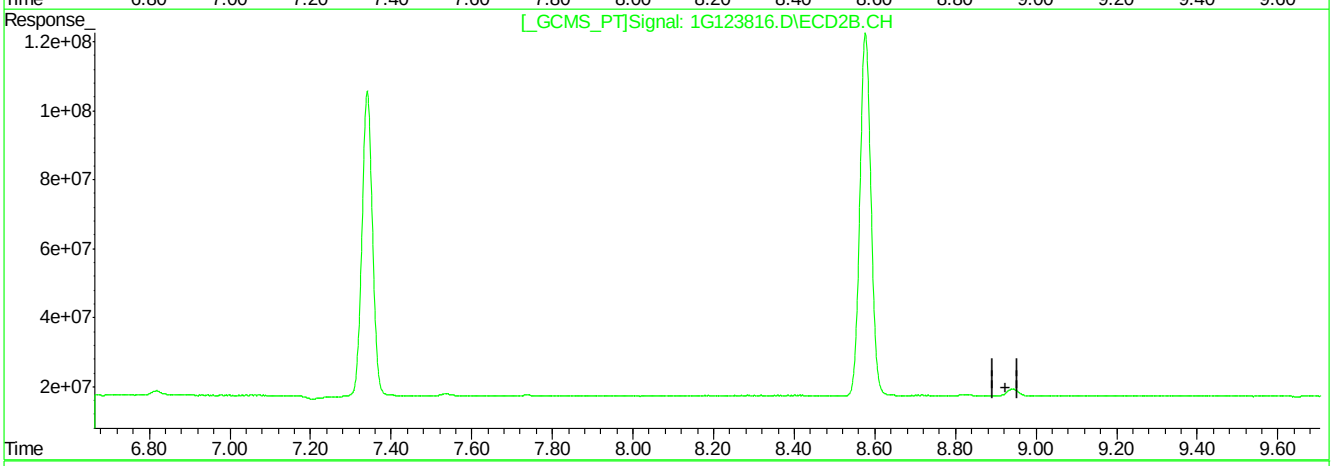
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

0.00min 0.000PPB

response 0

(23) Endrin Ketone #2 (B)

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:04:14 2016 RPT1

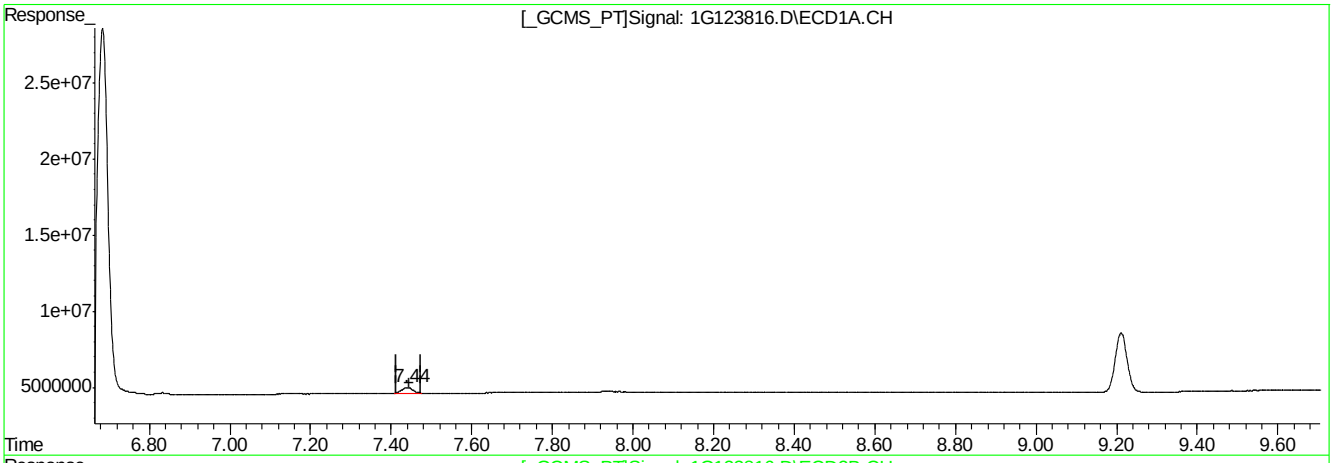
11.5.6.8

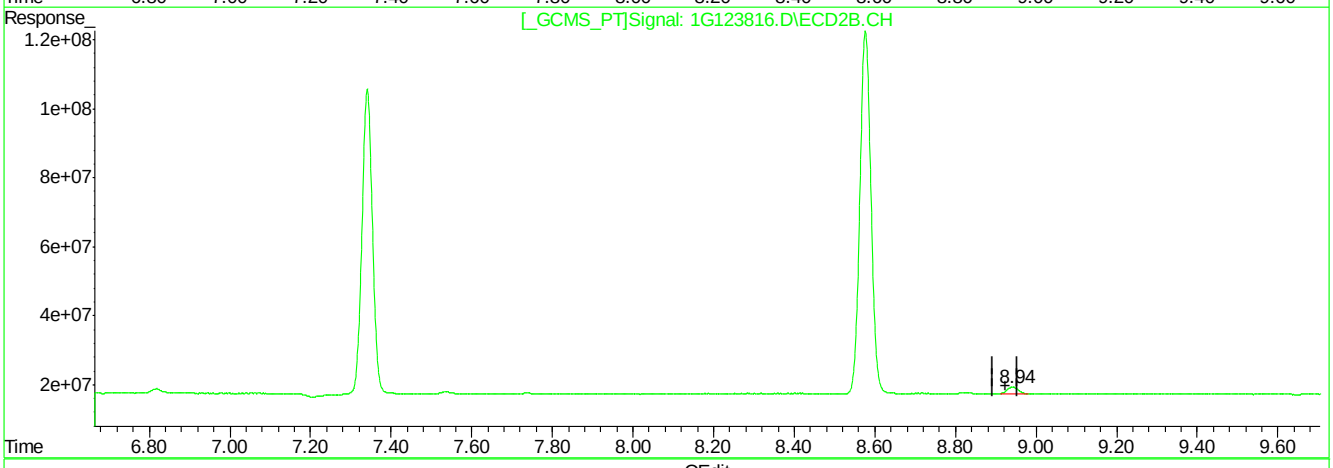
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD1A.CH Vial: 1
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123816.D\ECD2B.CH
Acq On    : 6-3-16 09:39:32 AM                      Operator: kristend
Sample    : ddt                                     Inst    : GC1G
Misc      : op94273,g1g4003,16.9,,,10,1             Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: Jun  3 10:01 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
```





QEdit

(23) Endrin Ketone (B)

7.44min 1.709PPB m

response 6719943

(23) Endrin Ketone #2 (B)

8.94min 1.954PPB m

response 36642723

(+) = Expected Retention Time

1G123816.D 1PST3988.M Fri Jun 03 10:04:59 2016 RPT1

11.5.6.9

11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:06:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.886	2.057	685.6E6	627.1E6	50.000	50.000
25) I	1-bromo-2...	1.886	2.057	685.6E6	627.1E6	50.000	50.000
31) I	1-bromo-2...	1.886	2.057	685.6E6	627.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.446	2.838	282.3E6	237.1E6	23.790	20.790
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 59.48%	51.97%
24) SA	Decachlor...	9.830	11.180	234.5E6	180.1E6	22.971	21.215
	Spiked Amount	40.000			Recovery	= 57.43%	53.04%
	Target Compounds						
13) B	4,4'-DDE	5.231	6.528	10451938	9812735	0.856m	0.803
15) MA	Endrin	5.969	7.302	668.9E6	589.9E6	62.141	60.061
16) A	4,4'-DDD	6.083	7.475	5786715	3081113	0.596	0.328m#
18) MA	4,4'-DDT	6.504	8.011	1356.3E6	1224.8E6	135.427	127.761m
19) B	Endrin Al...	6.945	8.220	8983693	6689094	1.021m	0.813m
23) B	Endrin Ke...	8.084	9.644	28527956	25918264	2.453	2.498

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.5.7 11

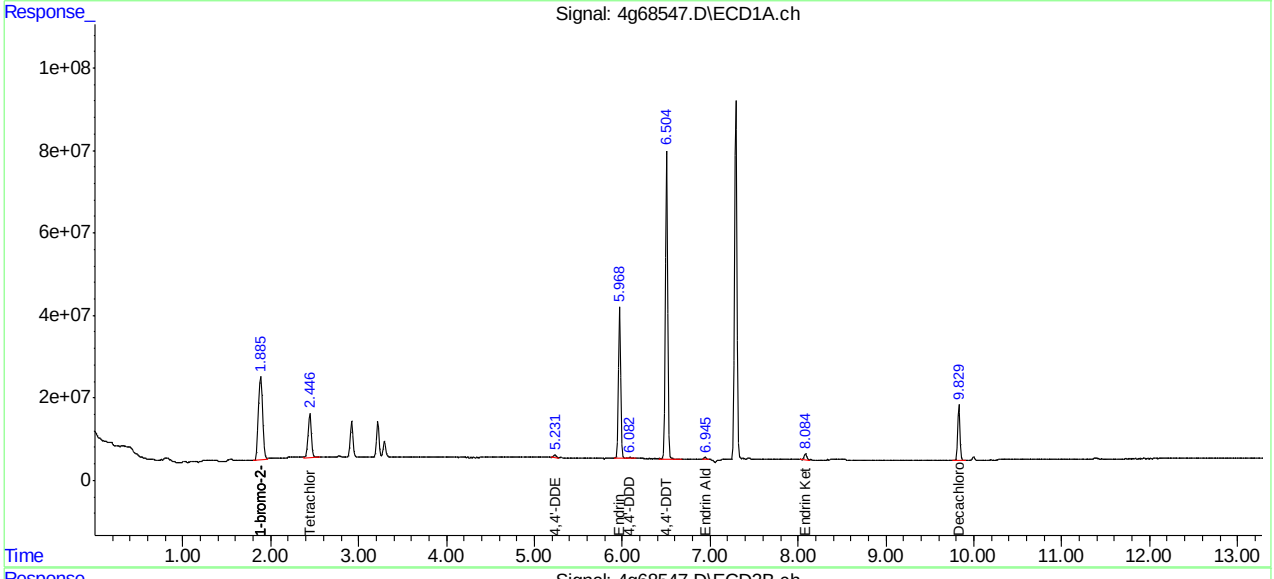
SGS ACCUTEST JC21229

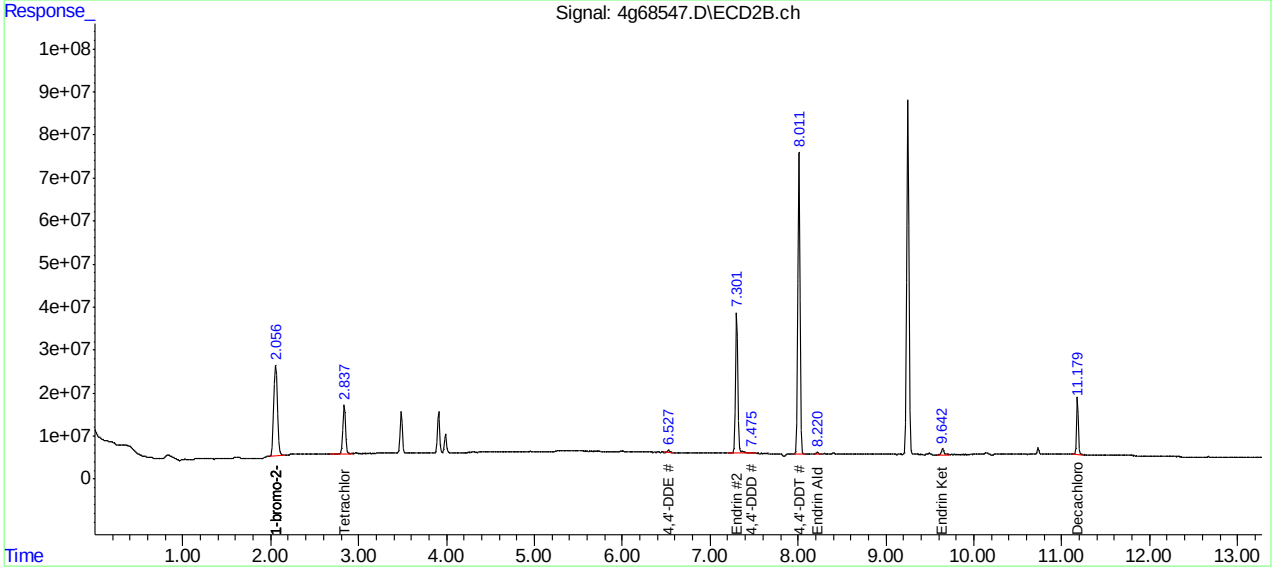
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:06:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1799-DDT	**Method:**	SW846 8081B
Lab FileID:	4G68547.D	**Analyst approved:**	05/25/16 10:07 Rebecca Krug
Injection Time:	05/24/16 13:58	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

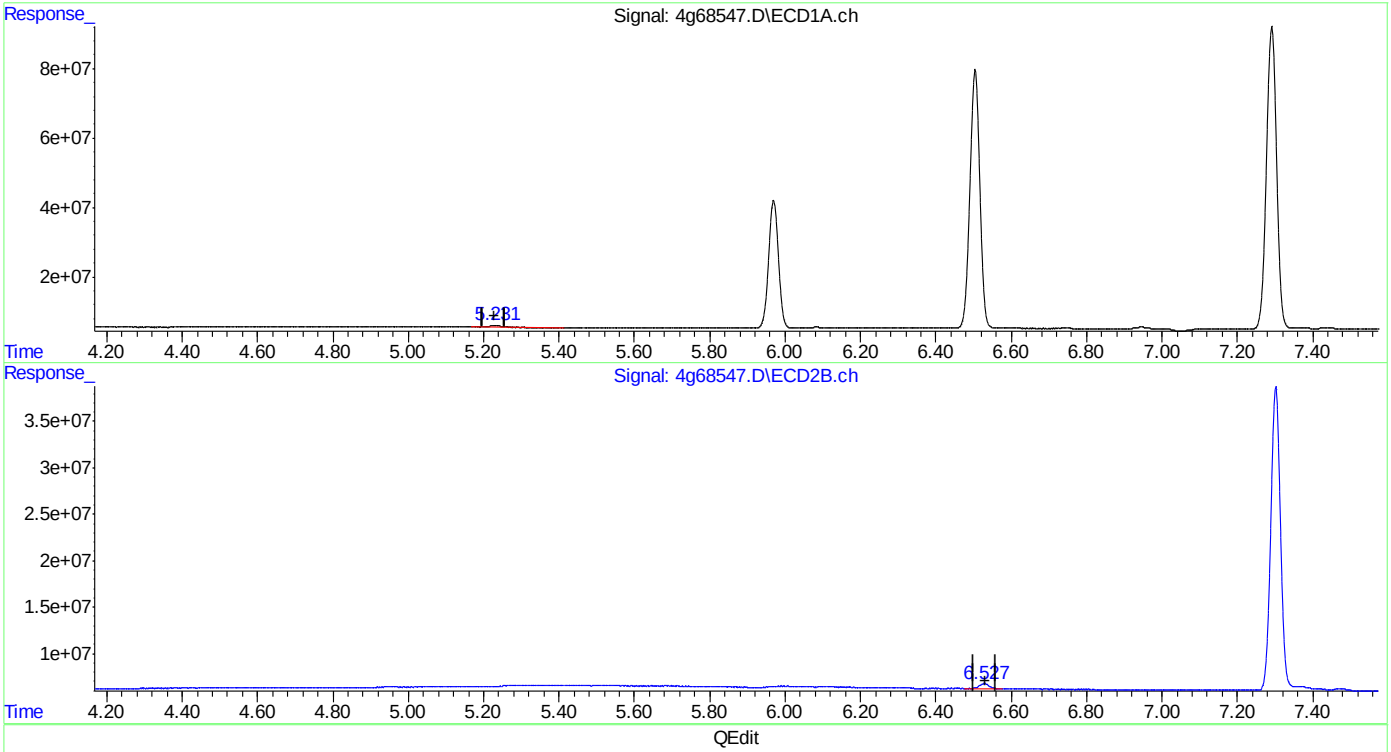
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.23	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.94	Poorly defined baseline
4,4'-DDD	72-54-8	2	7.47	Poorly defined baseline
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.22	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.230min 1.250 PPB
response 15259593

(13) 4,4'-DDE #2 (B)
6.528min 0.803 PPB
response 9812735

(+) = Expected Retention Time

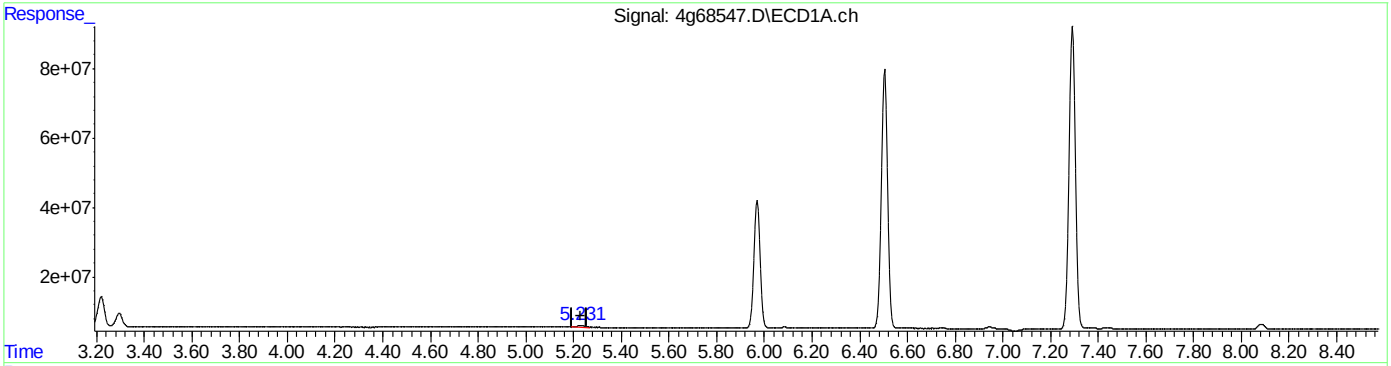
SGS ACCUTEST JC21229

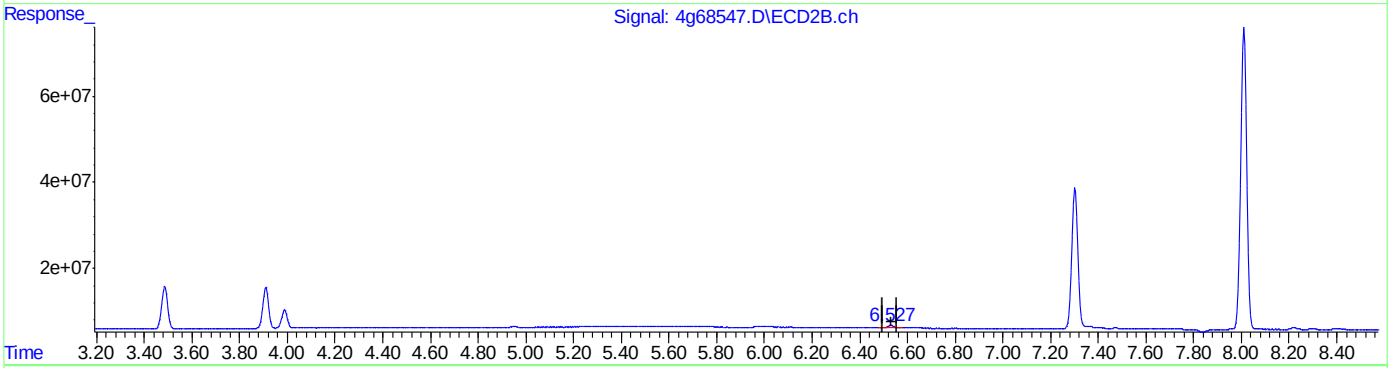
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
5.231min 0.856 PPB m
response 10451938

(13) 4,4'-DDE #2 (B)
6.528min 0.803 PPB
response 9812735

(+) = Expected Retention Time

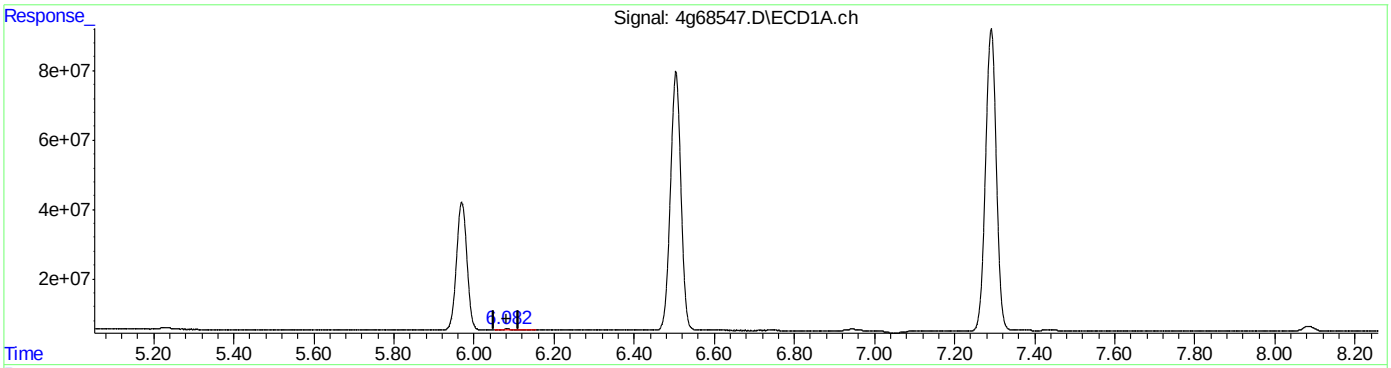
SGS ACCUTEST JC21229

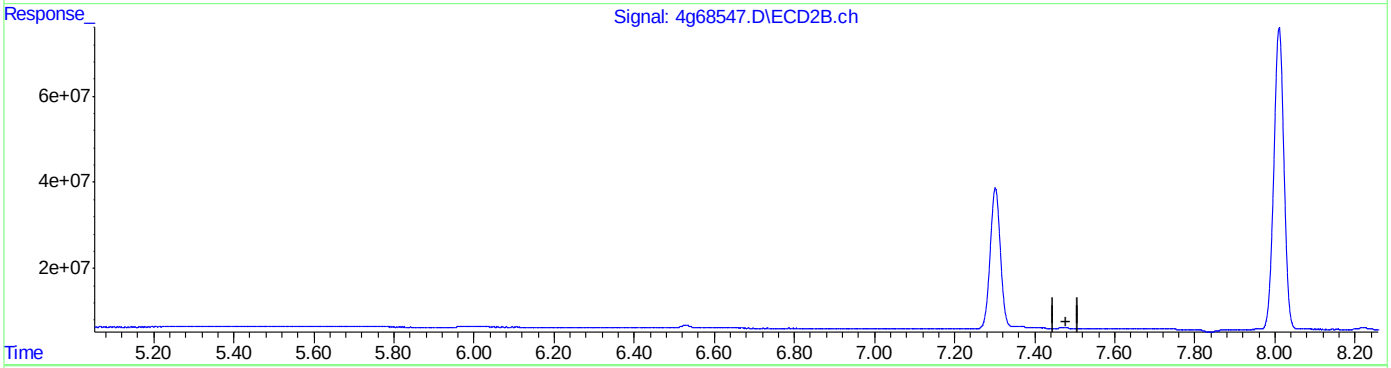
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.083min 0.596 PPB
response 5786715

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

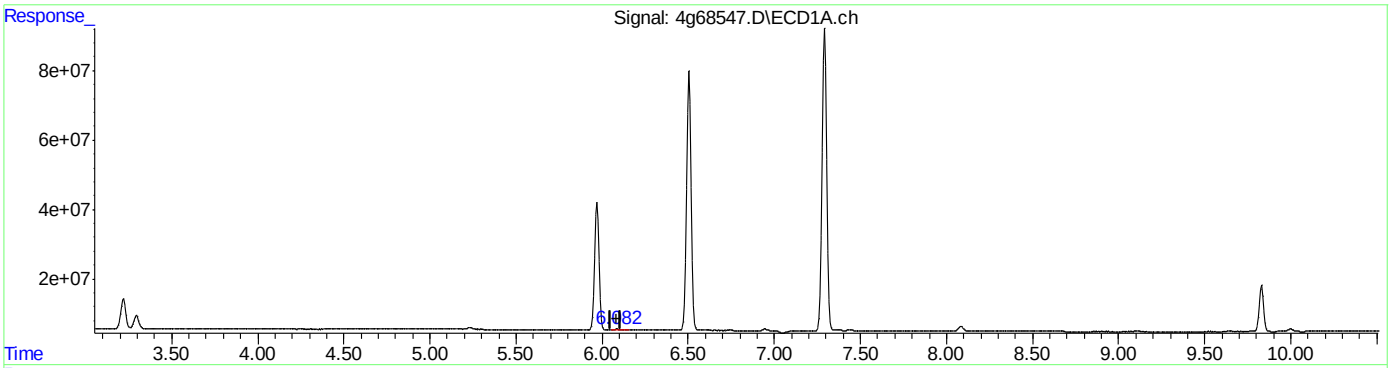
(+) = Expected Retention Time

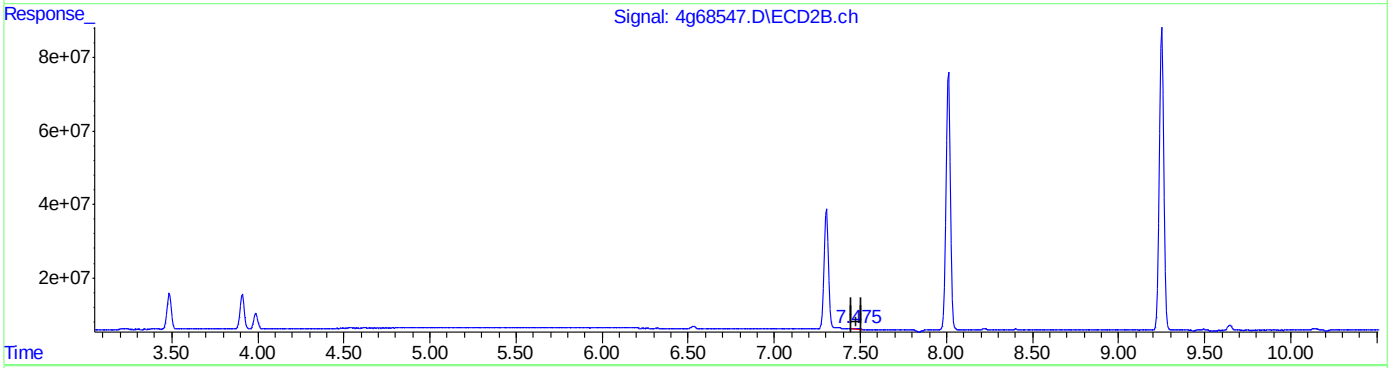
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.083min 0.596 PPB
response 5786715

(16) 4,4'-DDD #2 (A)
7.475min 0.328 PPB m
response 3081113

(+) = Expected Retention Time

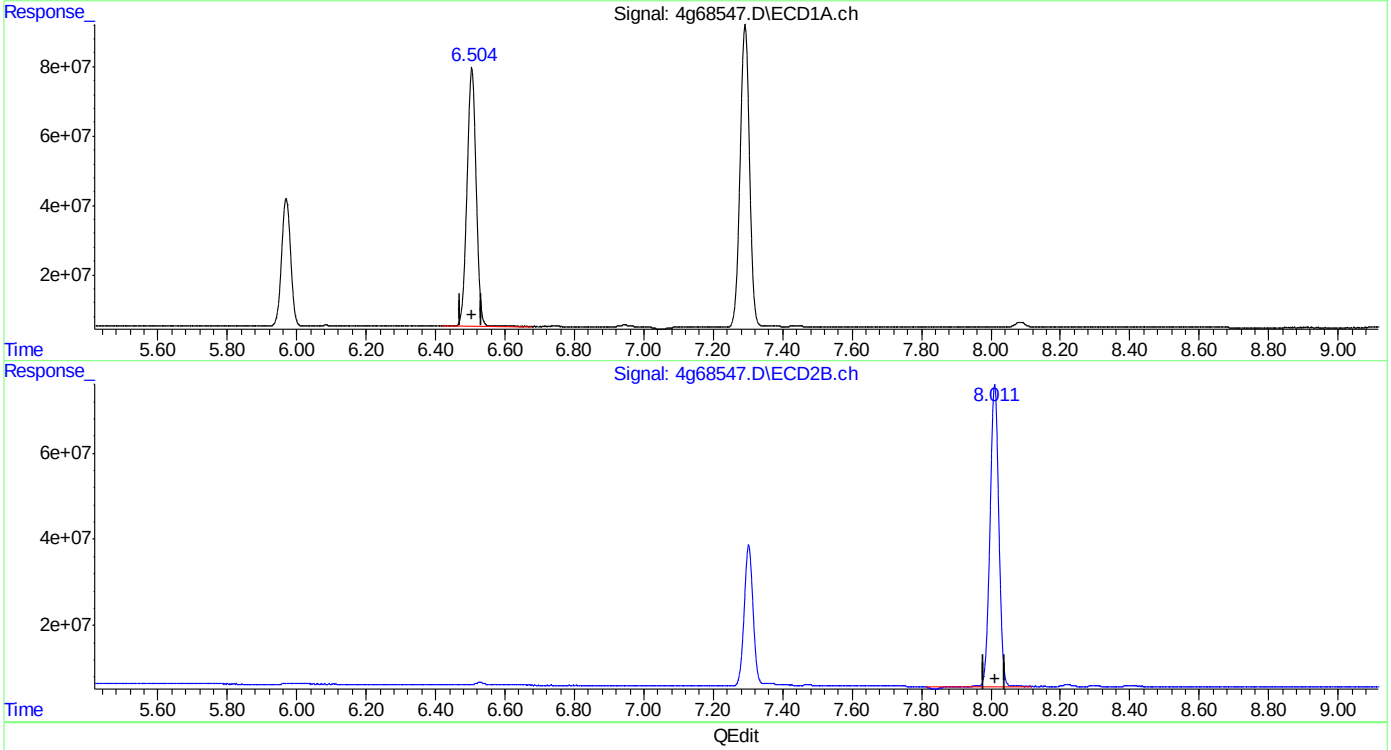
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.504min 135.427 PPB
response 1356259389

(18) 4,4'-DDT #2 (MA)
8.011min 129.085 PPB
response 1237494308

(+) = Expected Retention Time

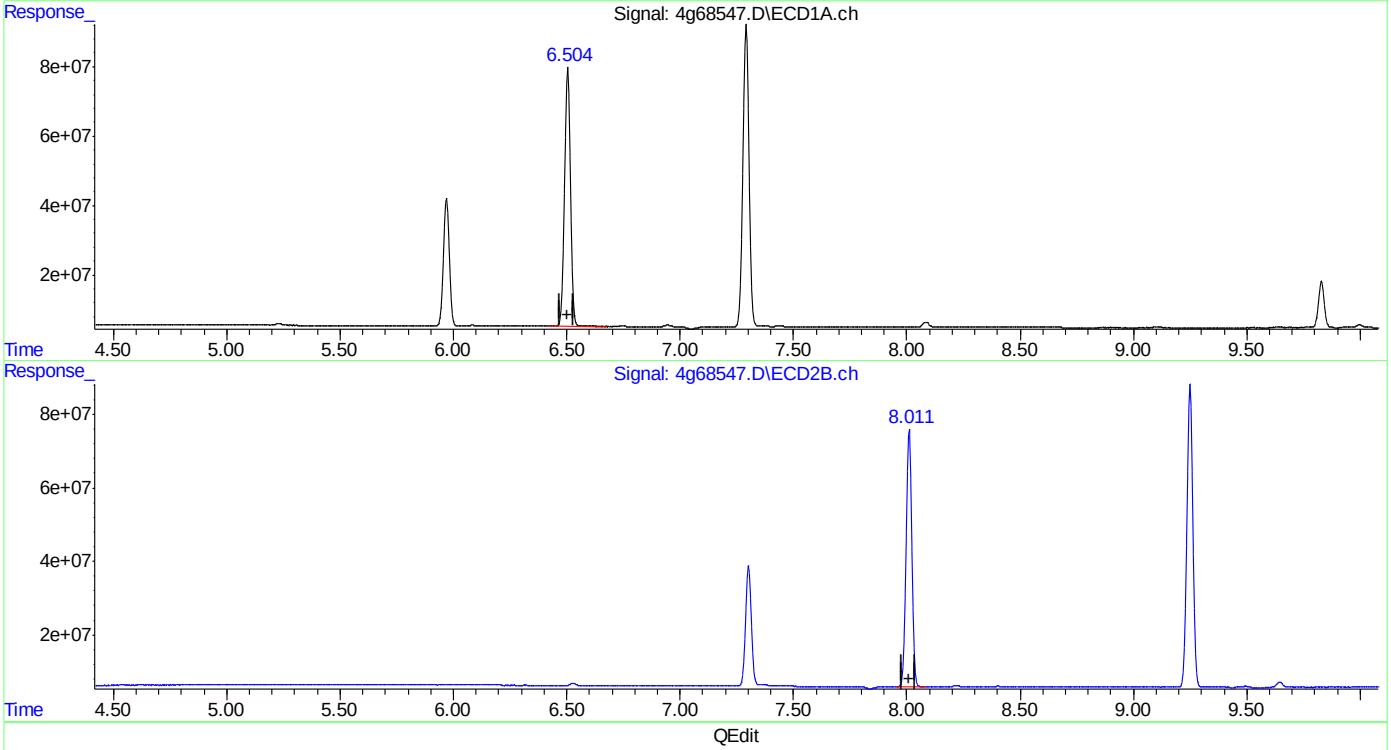
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.504min 135.427 PPB
response 1356259389

(18) 4,4'-DDT #2 (MA)
8.011min 127.761 PPB m
response 1224798641

(+) = Expected Retention Time

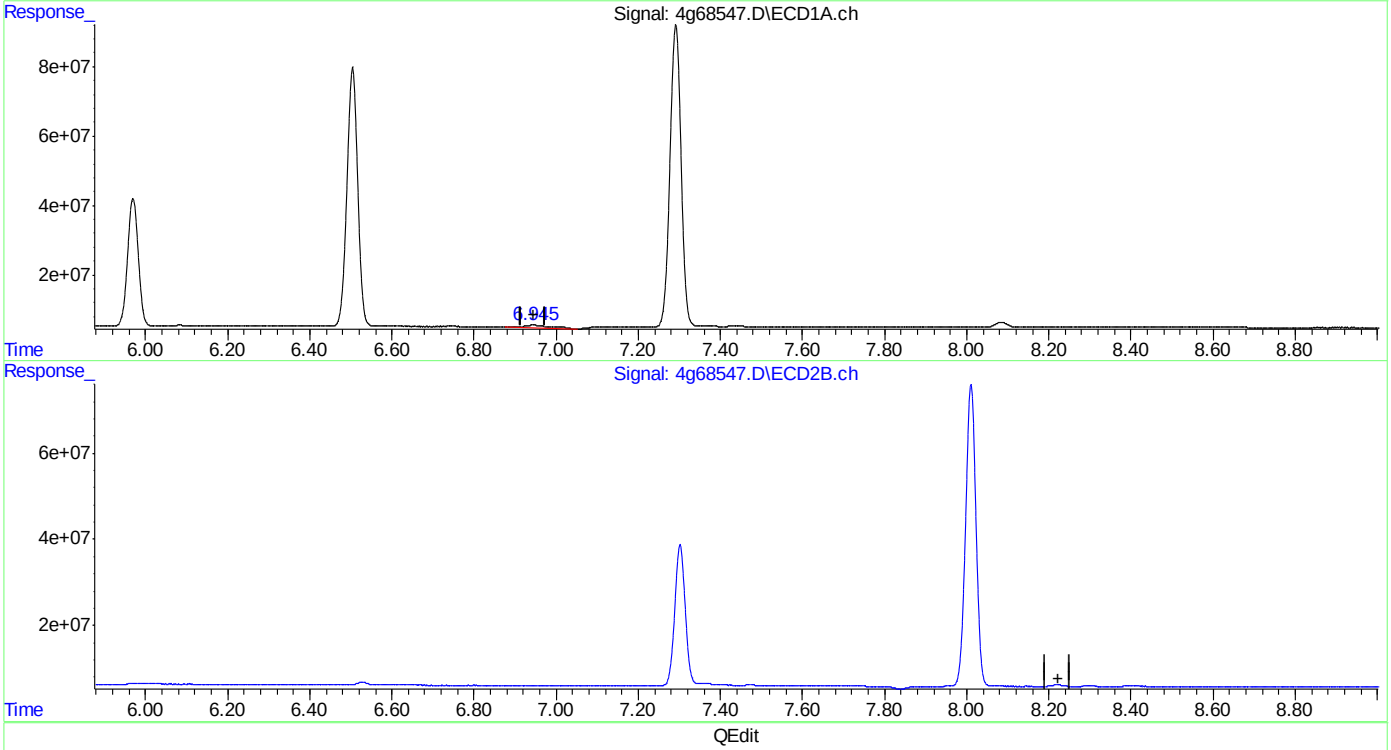
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.944min 4.186 PPB
response 36816509

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

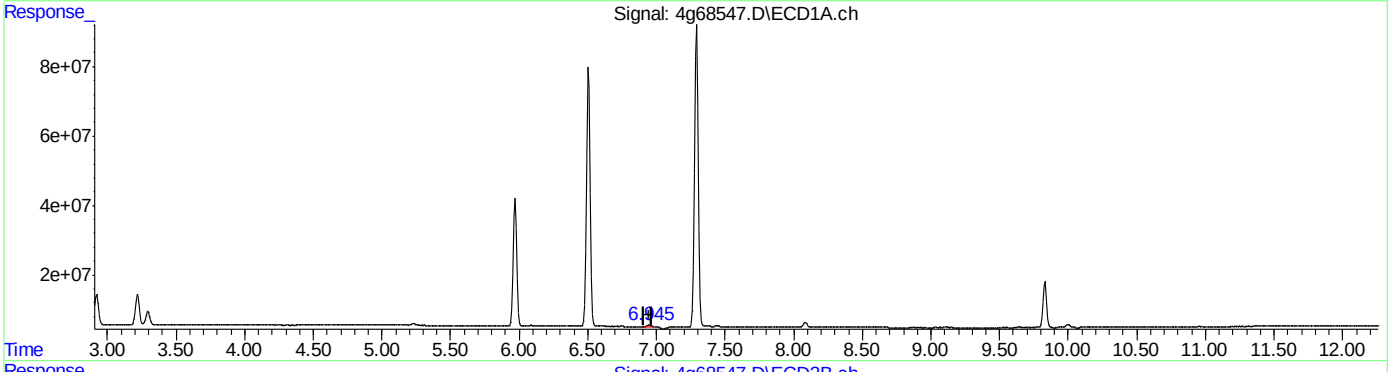
(+) = Expected Retention Time

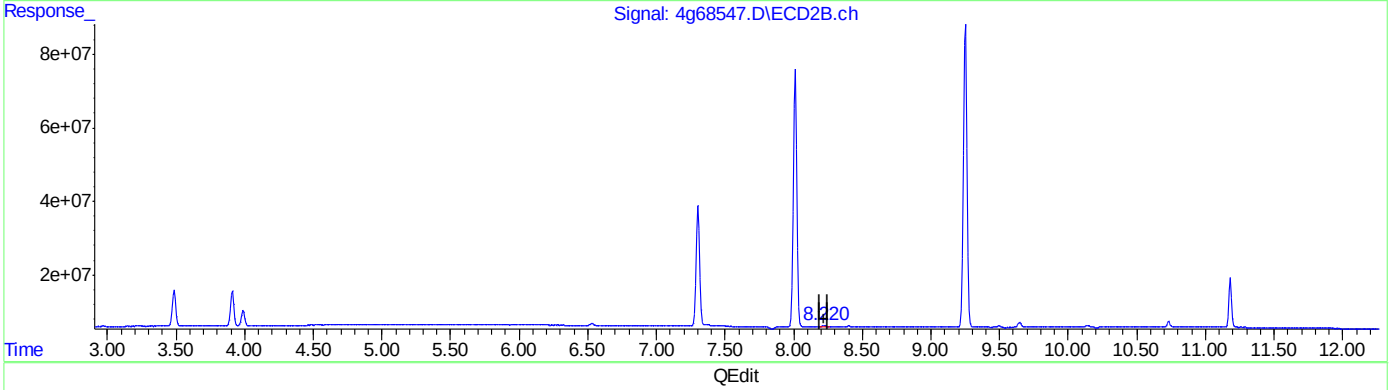
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68547.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 1:58 pm
Operator : rebeccak
Sample : ddt
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 10:05:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
6.945min 1.021 PPB m
response 8983693

(19) Endrin Aldehyde #2 (B)
8.220min 0.813 PPB m
response 6689094

(+) = Expected Retention Time
4PST1799.M Wed May 25 10:06:55 2016 RPT1

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/06/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:49:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.873f	2.050f	381.7E6	369.3E6	50.000	50.000m
25) I	1-bromo-2...	1.873	2.051	381.7E6	384.0E6	50.000	50.000
31) I	1-bromo-2...	1.873	2.051	381.7E6	384.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430f	2.829f	136.3E6	124.2E6	20.629m	18.500
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	51.57%	46.25%
24) SA	Decachlor...	9.810f	11.164f	124.1E6	74669622	21.829	14.939 #
	Spiked Amount 40.000			Recovery	=	54.57%	37.35%
	Target Compounds						
13) B	4,4'-DDE	5.216	6.512f	7832053	3715791	1.153m	0.516m#
15) MA	Endrin	5.948f	7.282f	346.1E6	296.3E6	57.759	51.229
16) A	4,4'-DDD	6.064f	7.457f	6035118	5727550	1.117m	1.035m
18) MA	4,4'-DDT	6.483f	7.990f	653.0E6	545.6E6	117.125	96.649
19) B	Endrin Al...	6.925f	8.195f	4007370	4388480	0.818m	0.906m
23) B	Endrin Ke...	8.058f	9.624f	13437867	22908593	2.075m	3.749 #
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

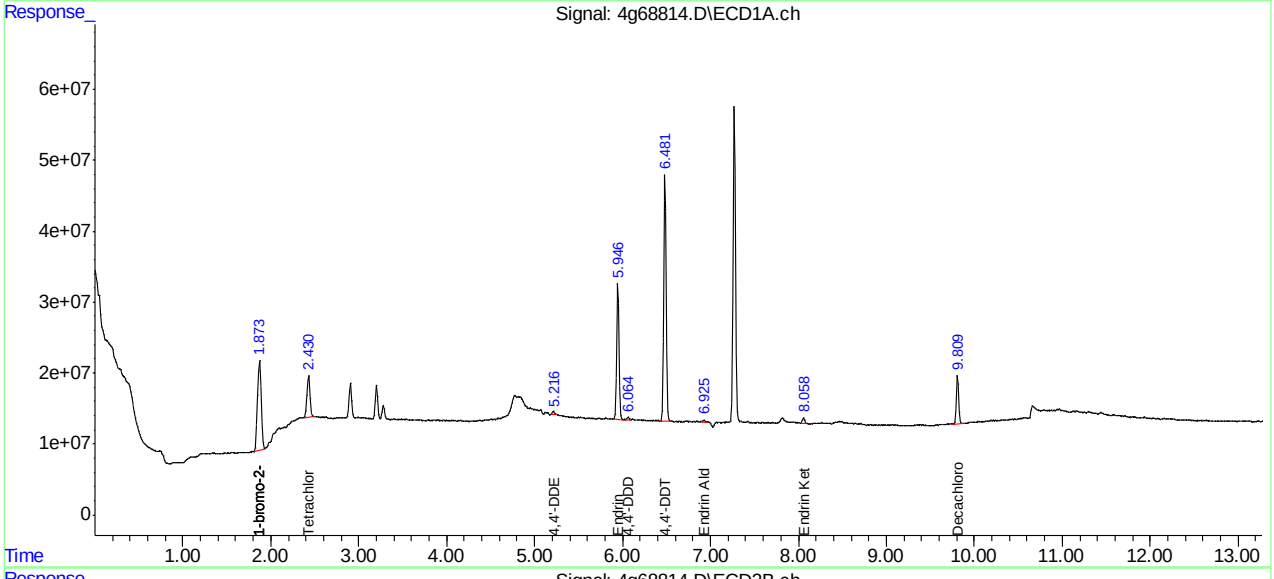
11.5.8 11

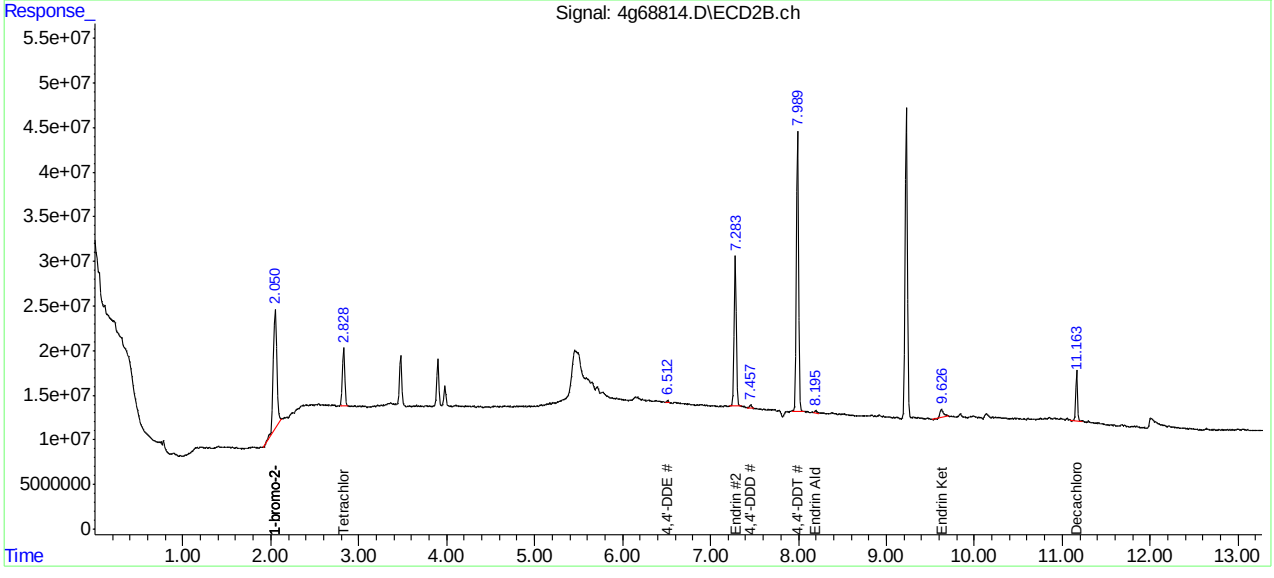
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:49:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1806-DDT	**Method:**	SW846 8081B
Lab FileID:	4G68814.D	**Analyst approved:**	06/02/16 14:48 Kristen Drake
Injection Time:	06/02/16 09:21	**Supervisor approved:**	06/06/16 11:32 Gwendolyn Burns

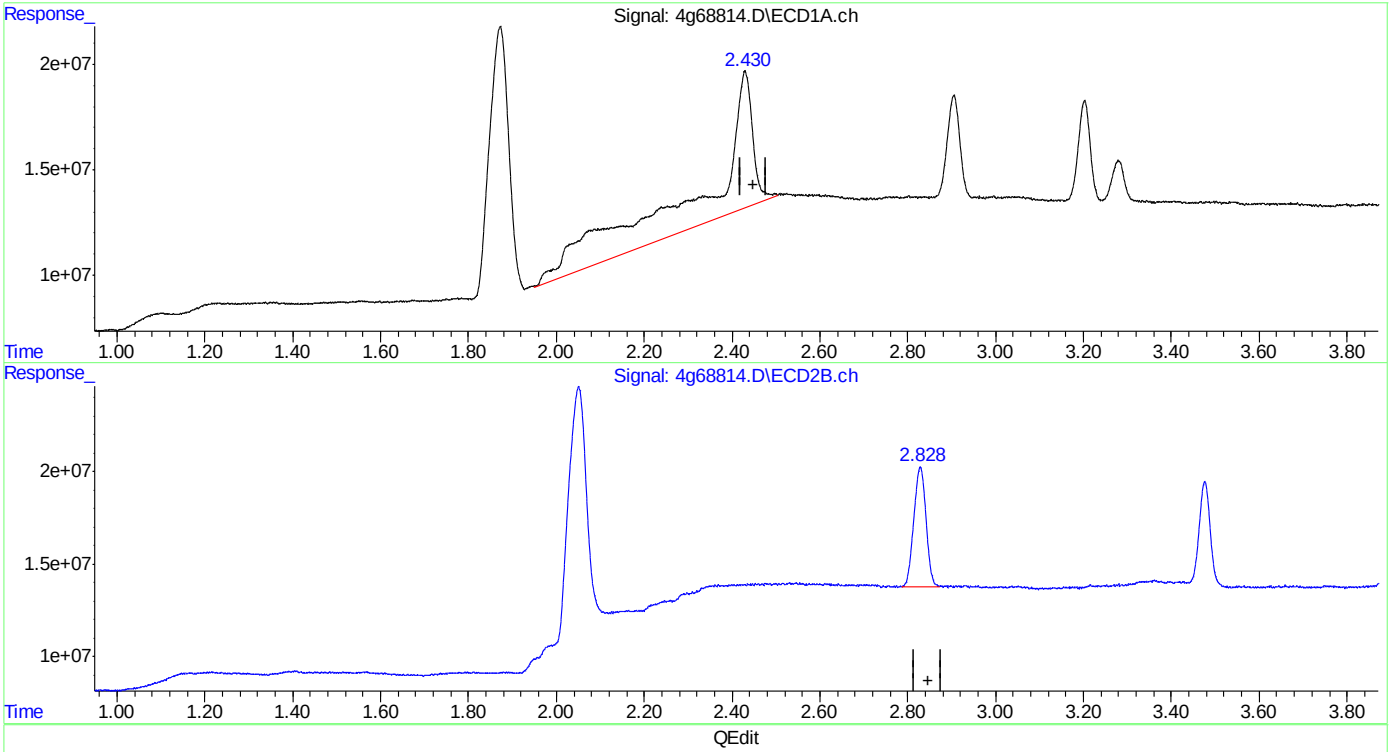
Parameter	CAS	Sig#	R.T. (min.)	Reason
1-Bromo-2-nitrobenzene	577-19-5	2	2.05	Poor instrument integration
Tetrachloro-m-xylene	877-09-8	1	2.43	Poor instrument integration
4,4'-DDE	72-55-9	1	5.22	Poor instrument integration
4,4'-DDD	72-54-8	1	6.06	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.92	Poor instrument integration
Endrin ketone	53494-70-5	1	8.06	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(2) Tetrachloro-m-xylene (SAB)
2.430min 73.253 PPB
response 483923146

(2) Tetrachloro-m-xylene #2 (SAB)
2.829min 17.790 PPB
response 124224947

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:44:29 2016 RPT1

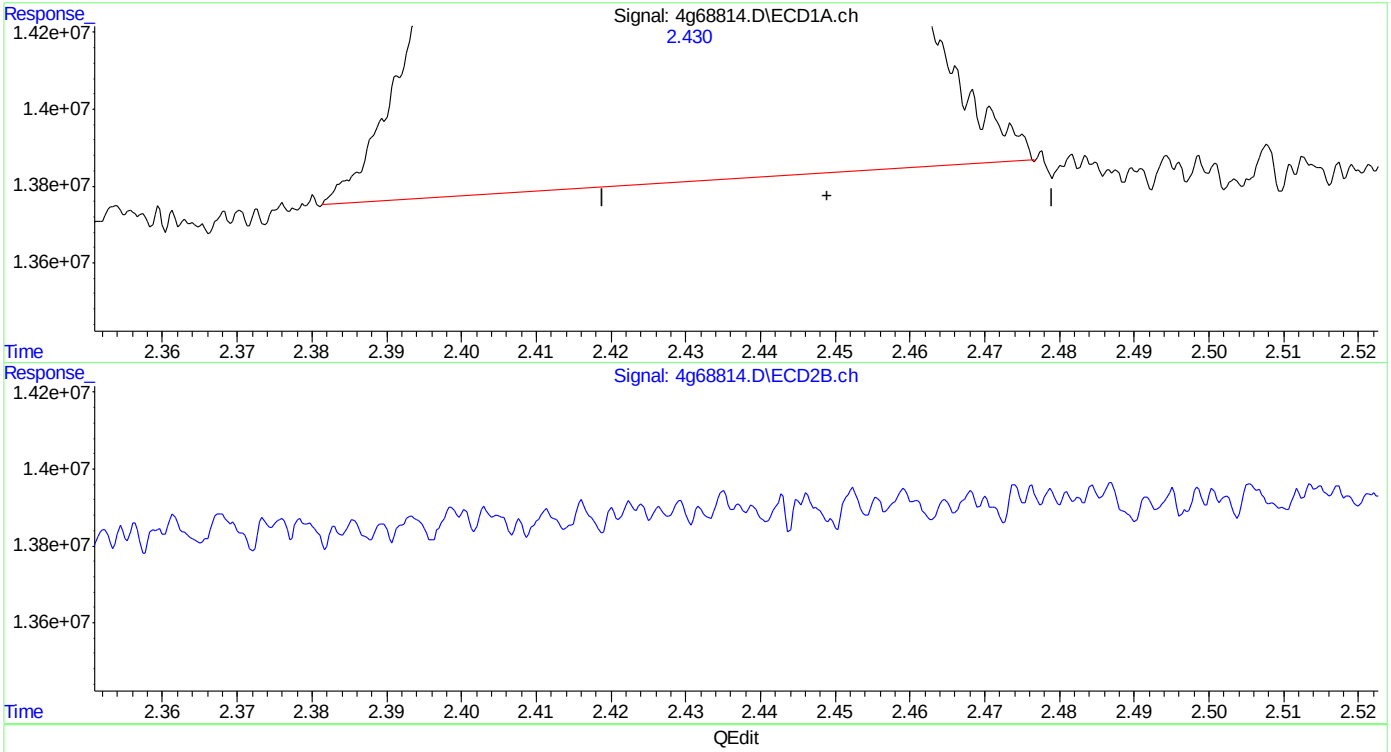
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  2 Jun 2016   9:21 am
Operator  : rebeccak
Sample    : ddt
Misc      : op94370,g4g1806,15.4,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title  : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



QEdit

(2) Tetrachloro-m-xylene (SAB)

2.430min 20.629 PPB m

response 136280239

(2) Tetrachloro-m-xylene #2 (SAB)

2.829min 17.790 PPB

response 124224947

(+) = Expected Retention Time

4PST1799.M Thu Jun 02 12:44:40 2016 RPT1

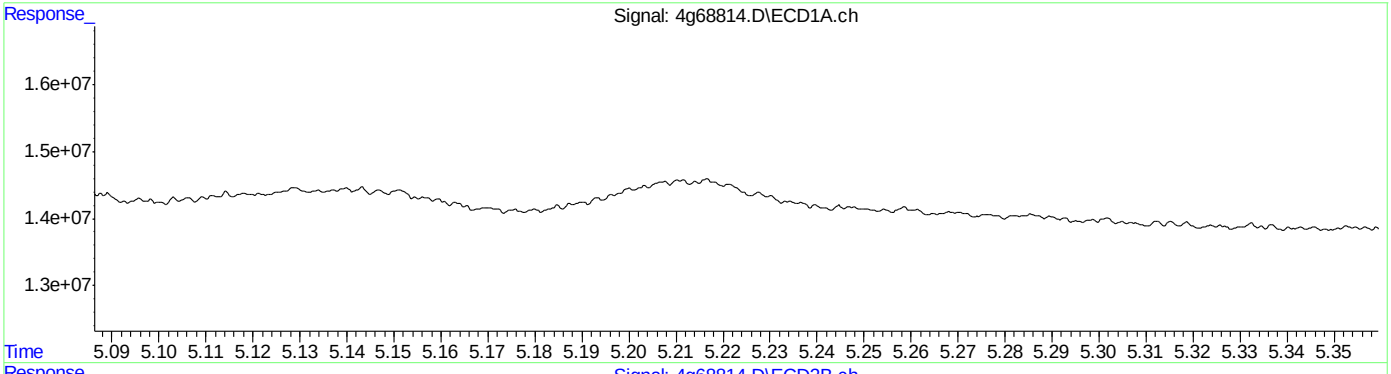
SGS ACCUTEST JC21229

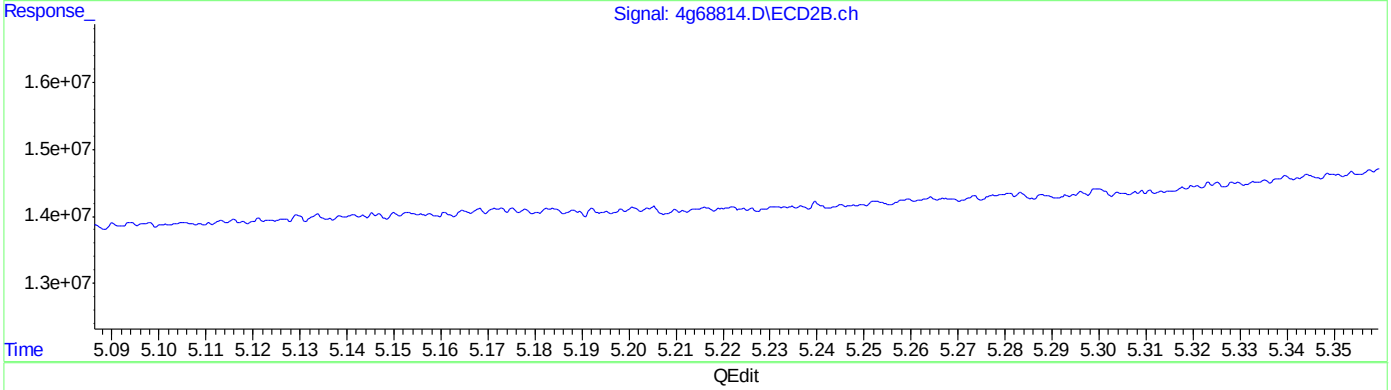
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000 PPB
response 0

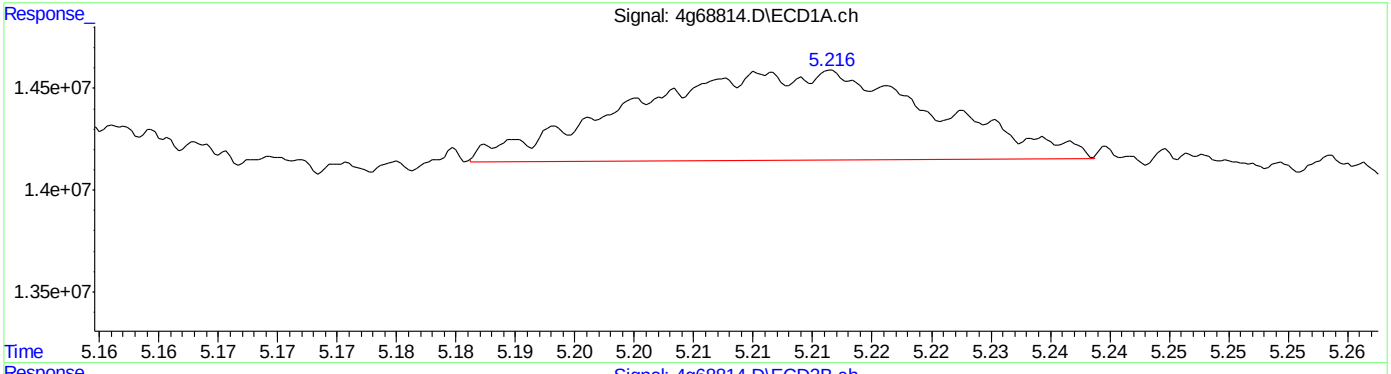
(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:45:09 2016 RPT1

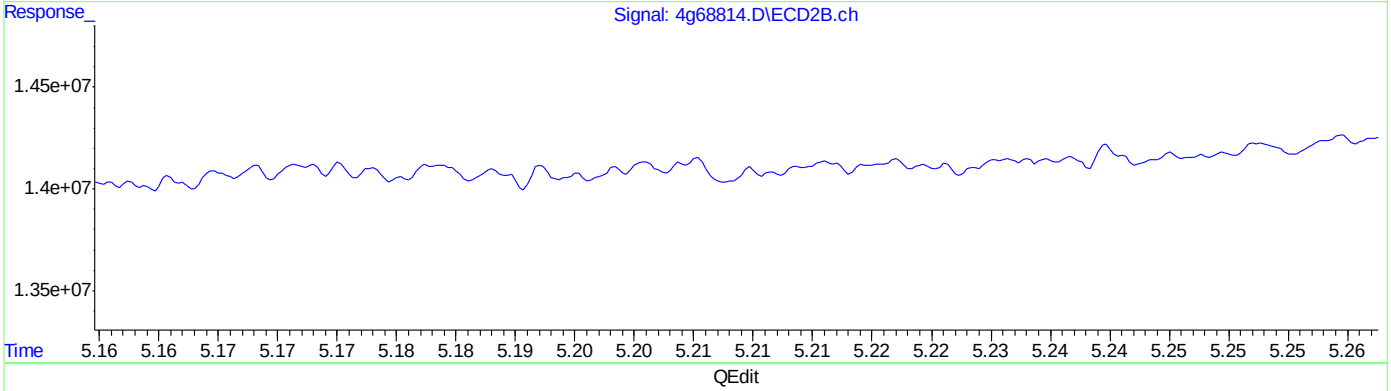
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(13) 4,4'-DDE (B)
5.216min 1.153 PPB m
response 7832053

(13) 4,4'-DDE #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:45:21 2016 RPT1

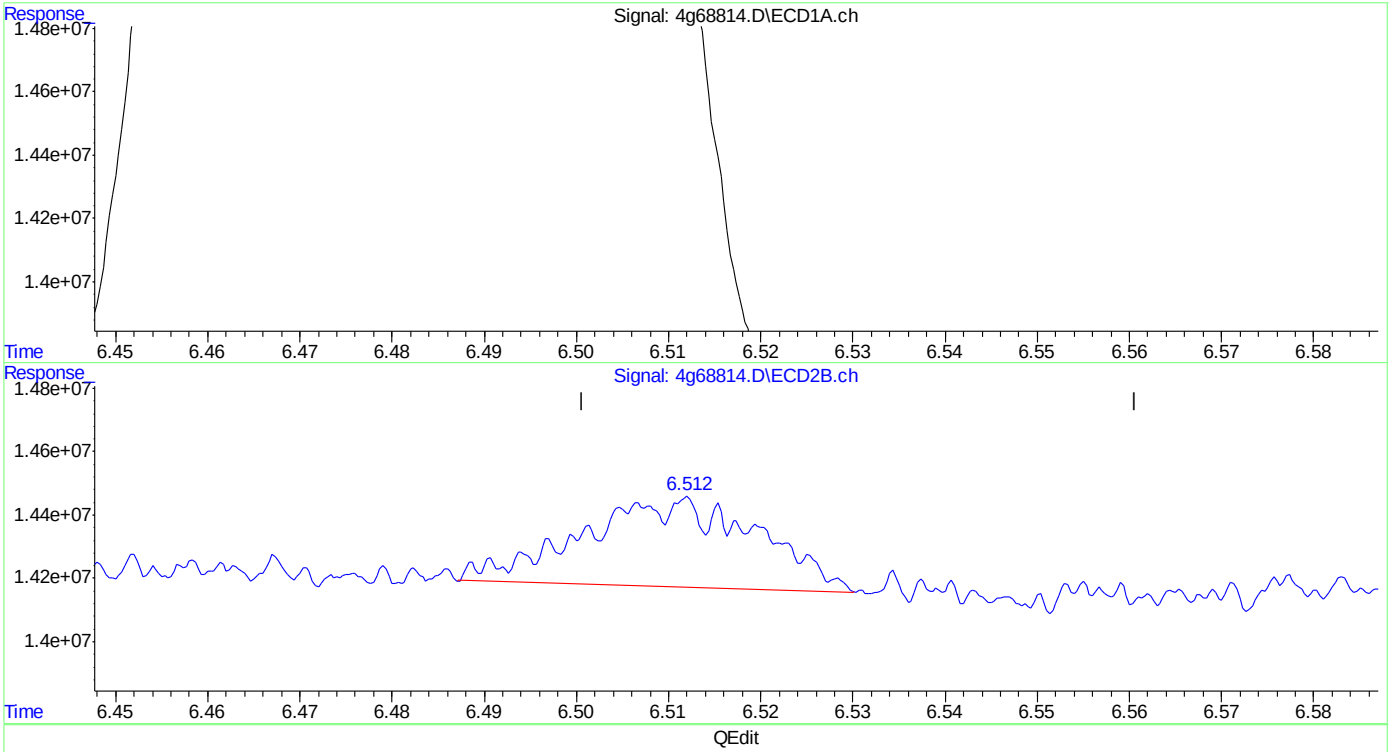
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.216min 1.153 PPB m
response 7832053

(13) 4,4'-DDE #2 (B)
6.512min 0.496 PPB m
response 3715791

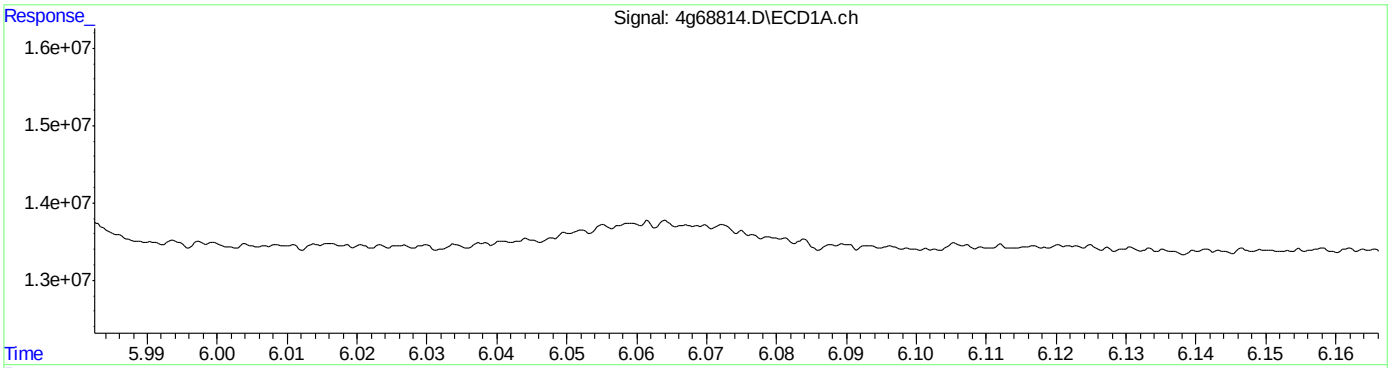
(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:45:33 2016 RPT1

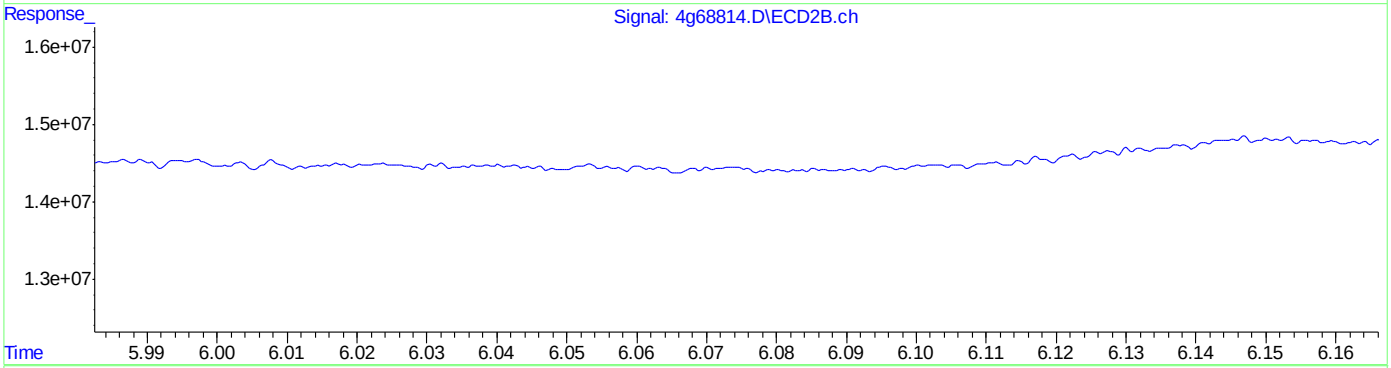
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000 PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:45:49 2016 RPT1

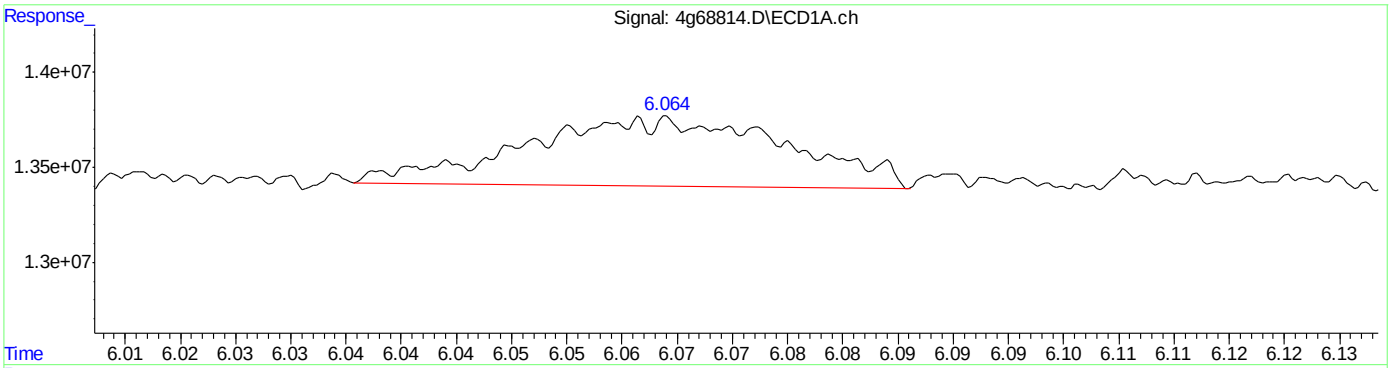
SGS ACCUTEST JC21229

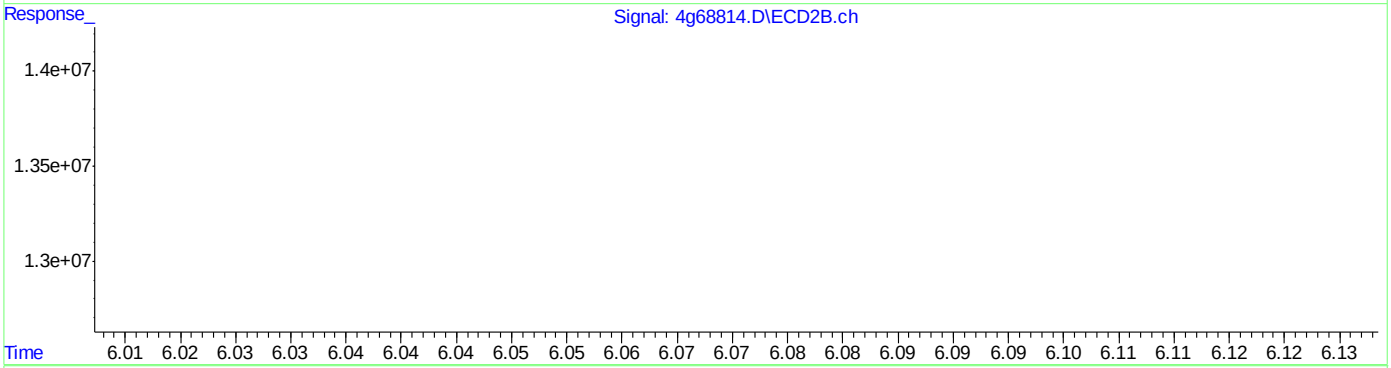
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.064min 1.117 PPB m
response 6035118

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:46:00 2016 RPT1

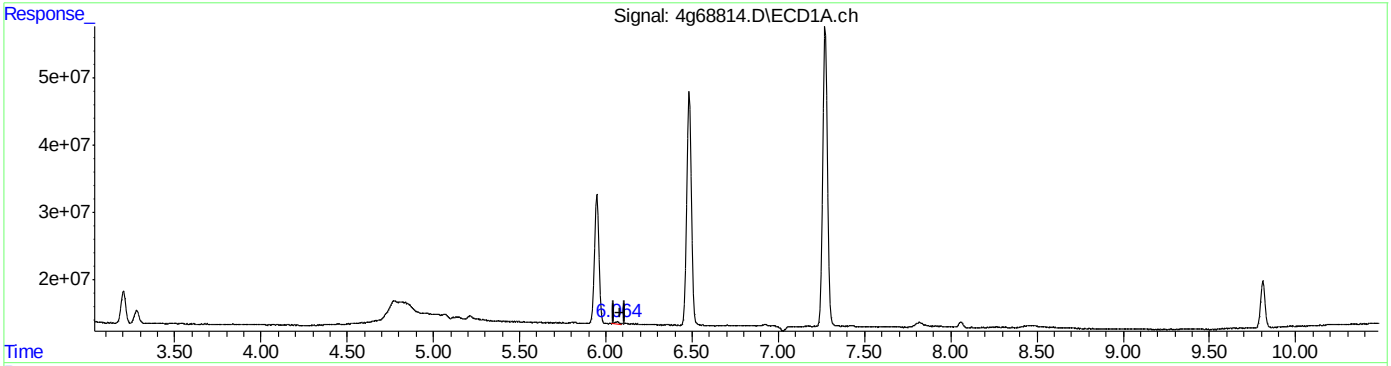
SGS ACCUTEST JC21229

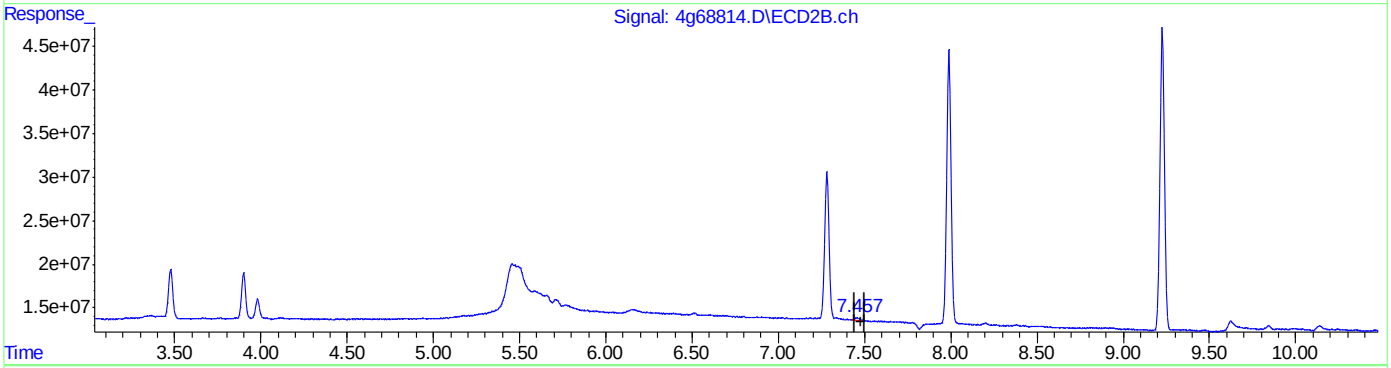
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.064min 1.117 PPB m
response 6035118

(16) 4,4'-DDD #2 (A)
7.457min 0.995 PPB m
response 5727550

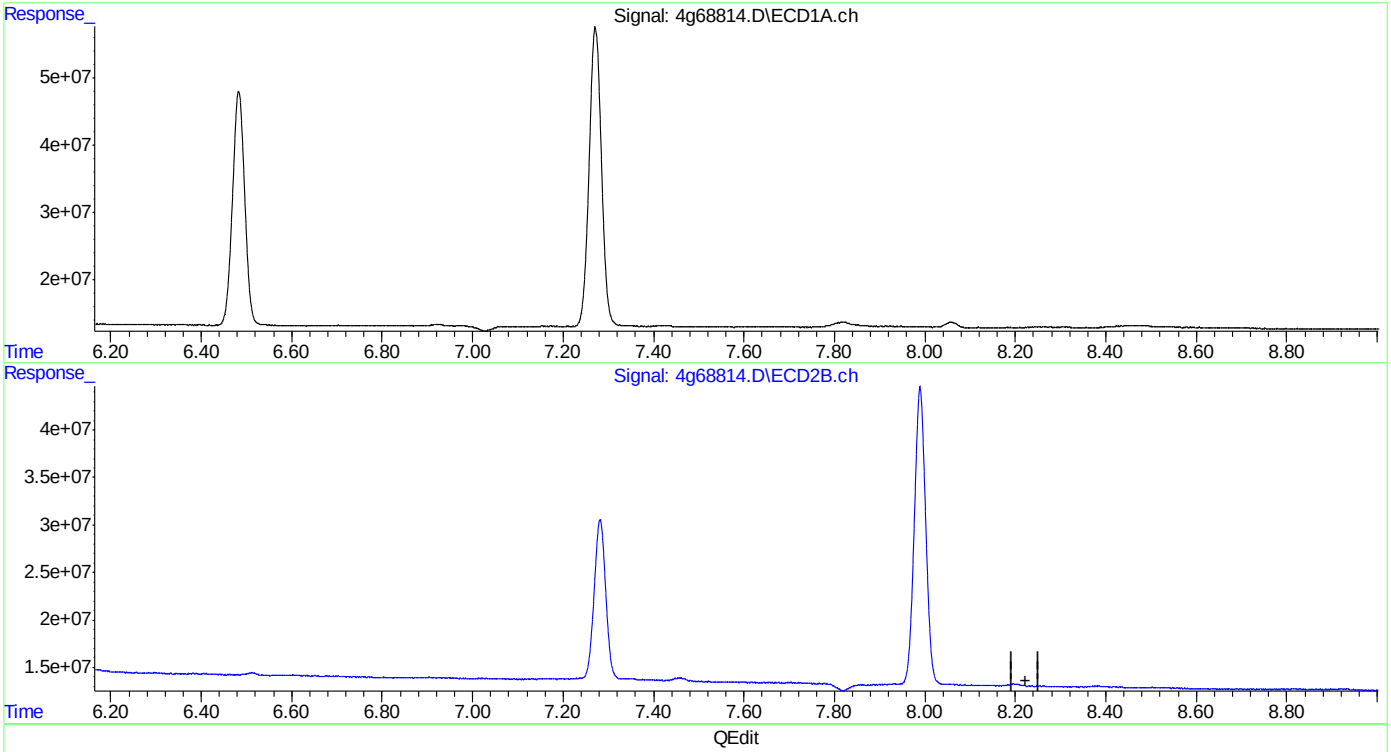
(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:46:18 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time

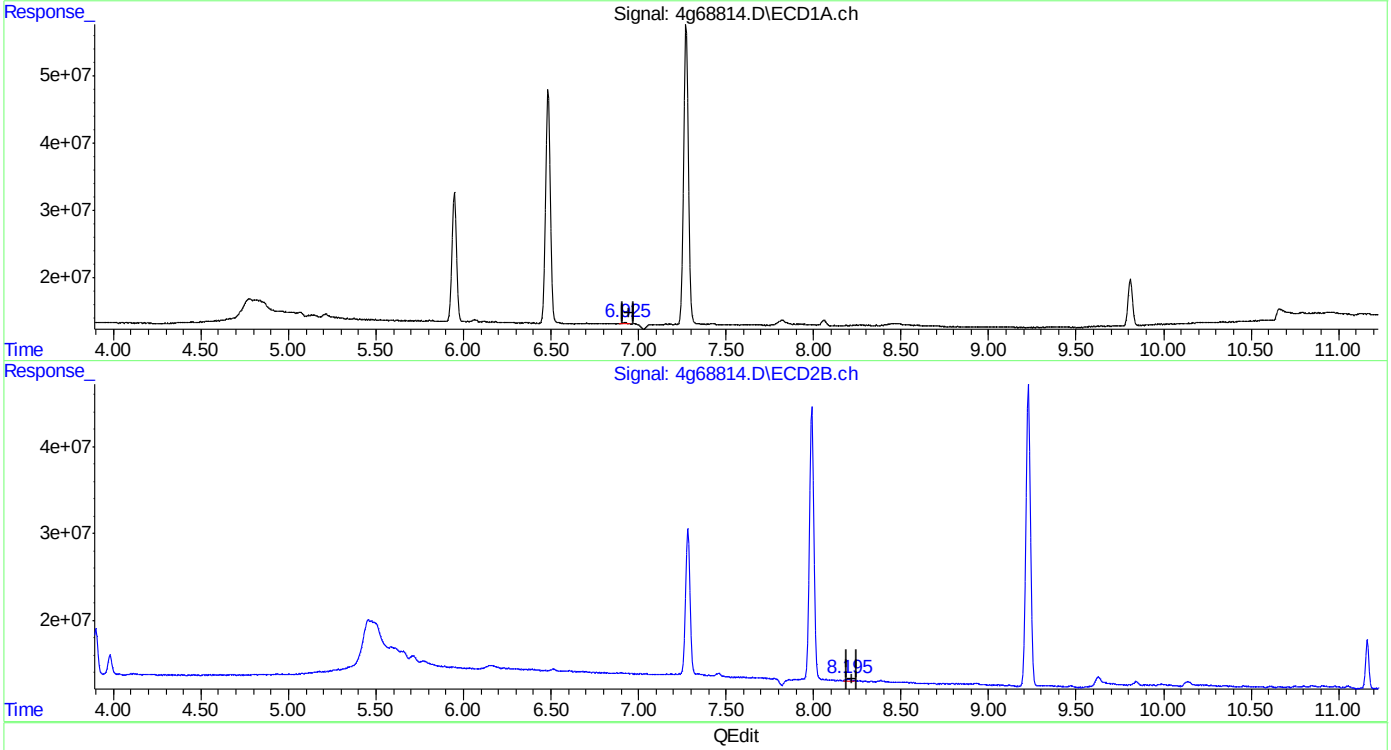
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.925min 0.818 PPB m
response 4007370

(19) Endrin Aldehyde #2 (B)
8.195min 0.871 PPB m
response 4388480

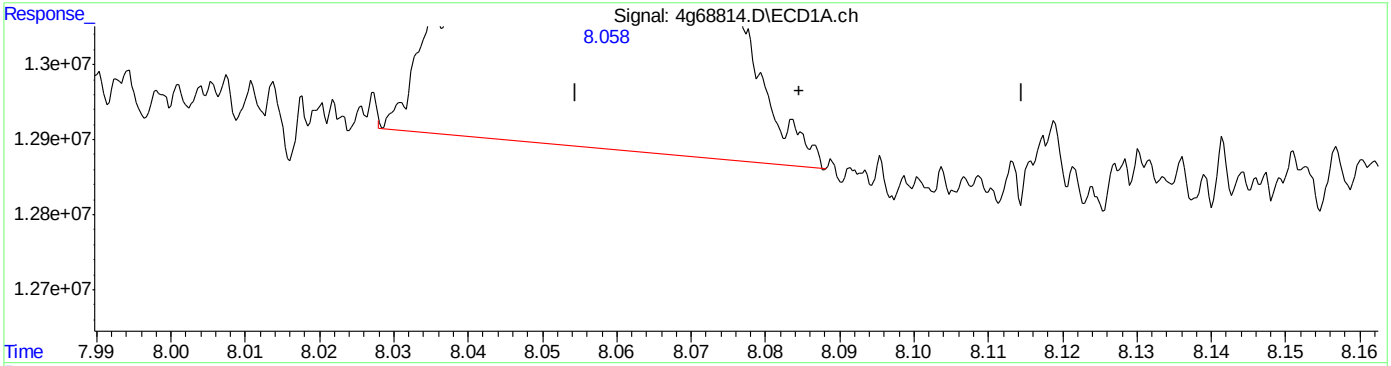
(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:47:57 2016 RPT1

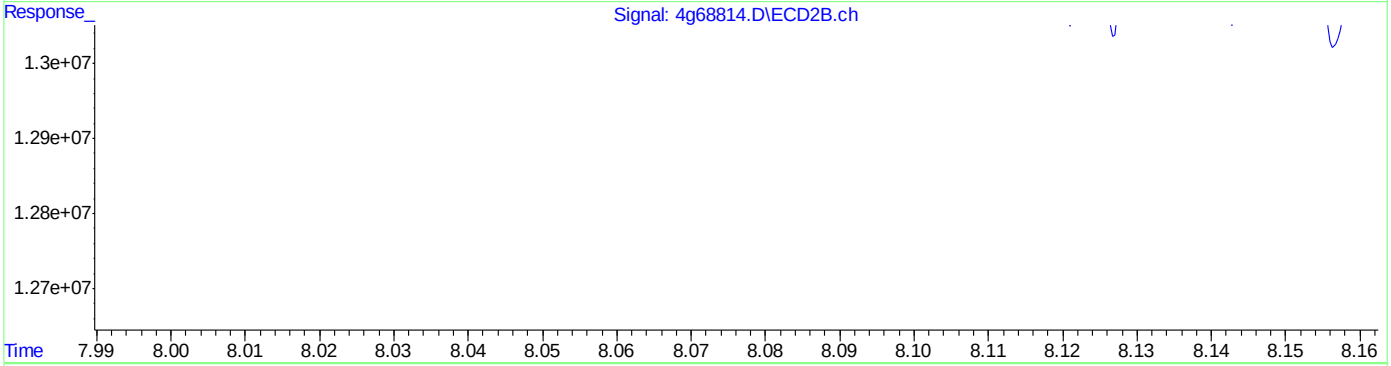
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.058min 2.075 PPB m
response 13437867

(23) Endrin Ketone #2 (B)
9.624min 3.605 PPB
response 22908593

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:49:16 2016 RPT1

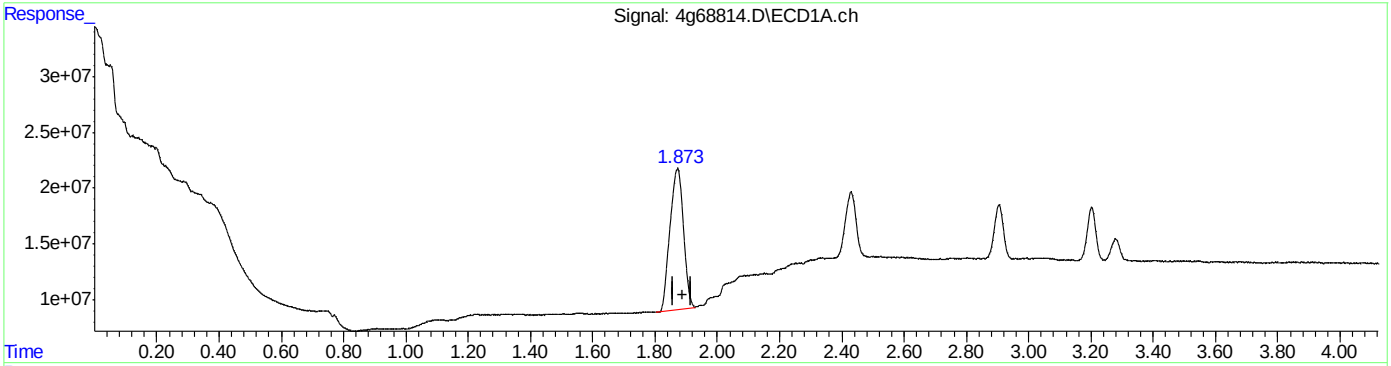
SGS ACCUTEST JC21229

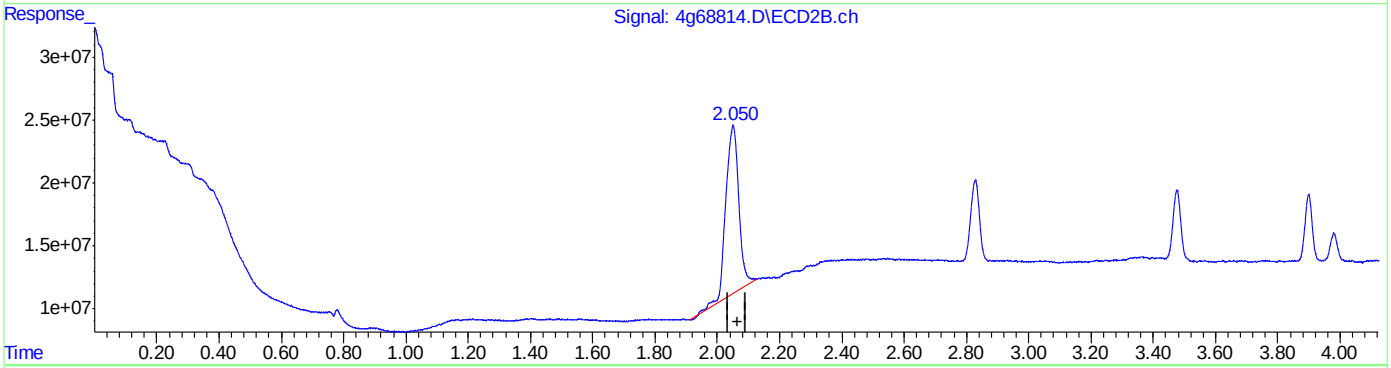
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(1) 1-bromo-2-nitrobenzene (I)
1.873min 50.000 PPB
response 381699770

(1) 1-bromo-2-nitrobenzene #2 (I)
2.051min 50.000 PPB
response 383997093

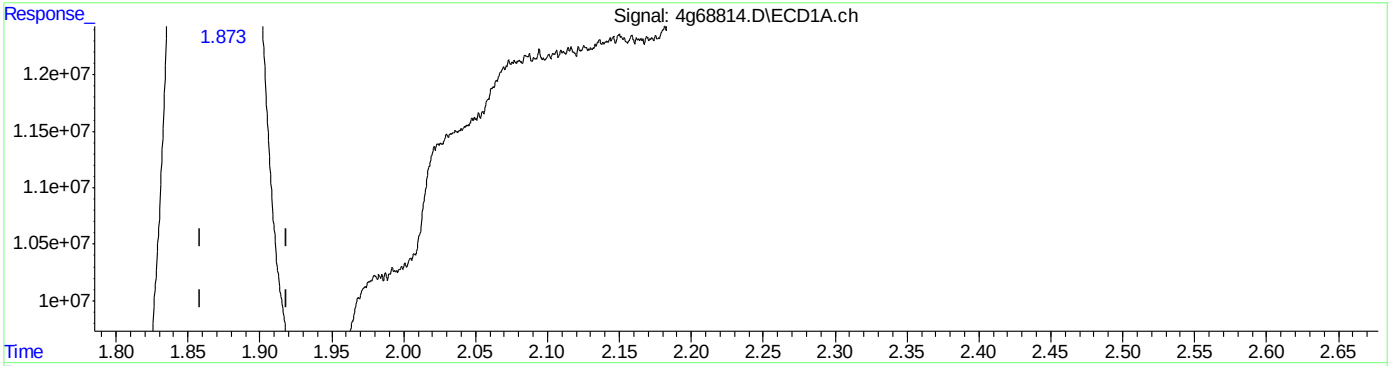
(+) = Expected Retention Time

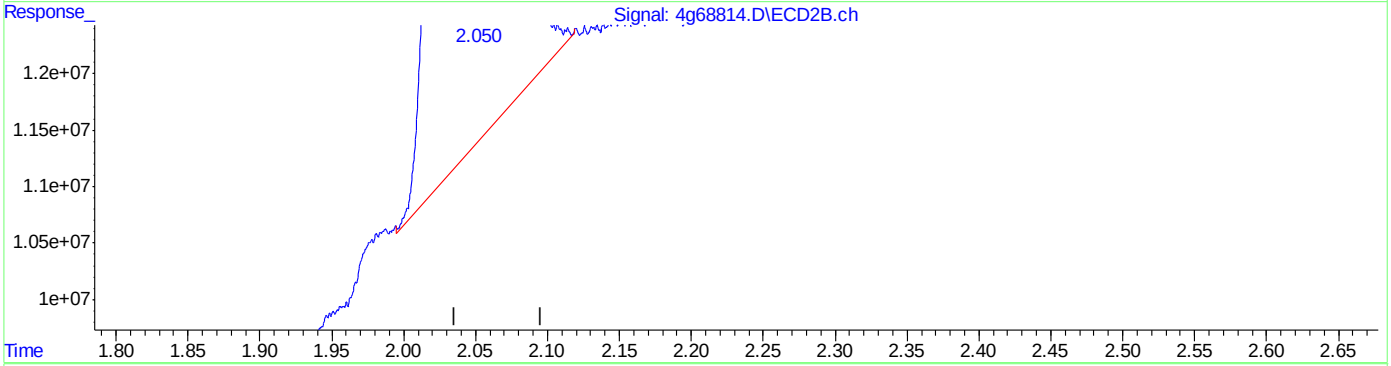
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 9:21 am
Operator : rebeccak
Sample : ddt
Misc : op94370,g4g1806,15.4,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:44:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(1) 1-bromo-2-nitrobenzene (I)
1.873min 50.000 PPB
response 381699770

(1) 1-bromo-2-nitrobenzene #2 (I)
2.050min 50.000 PPB m
response 369254015

(+) = Expected Retention Time
4PST1799.M Thu Jun 02 12:49:49 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:49:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.875	2.039	502.1E6	406.1E6	50.000	50.000
25) I	1-bromo-2...	1.875	2.039	502.1E6	406.1E6	50.000	50.000
31) I	1-bromo-2...	1.875	2.039	502.1E6	406.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.434	2.813	171.4E6	145.4E6	19.696	19.605
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	49.24%	49.01%
24) SA	Decachlor...	9.814	11.170	161.9E6	89664959	21.476	22.183m
	Spiked Amount 40.000			Recovery	=	53.69%	55.46%
	Target Compounds						
13) B	4,4'-DDE	5.215	6.490	5502948	4446393	0.608m	0.562m
15) MA	Endrin	5.952	7.260	428.2E6	341.3E6	50.880	51.113m
16) A	4,4'-DDD	6.067	7.435	8531892	7977095	1.126	1.319m
18) MA	4,4'-DDT	6.487	7.967	858.4E6	664.0E6	113.438	116.398m
19) B	Endrin Al...	6.925	8.177	14921308	11478096	2.185	2.282m
23) B	Endrin Ke...	8.062	9.604	30057749	20303559	3.438	3.633m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

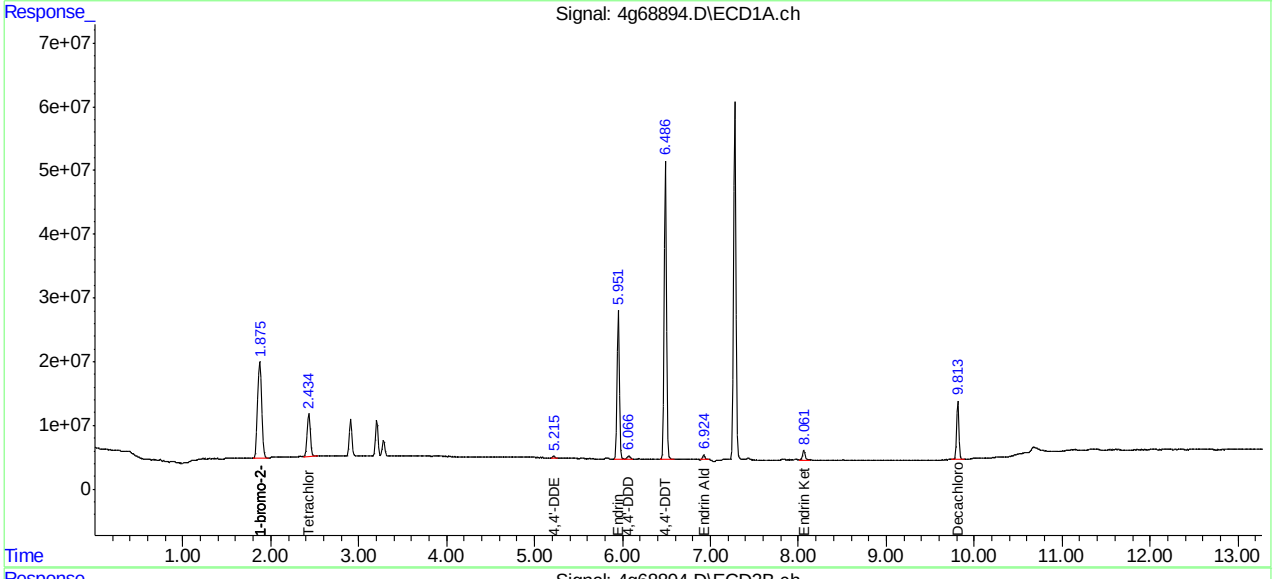
11.5.9 11

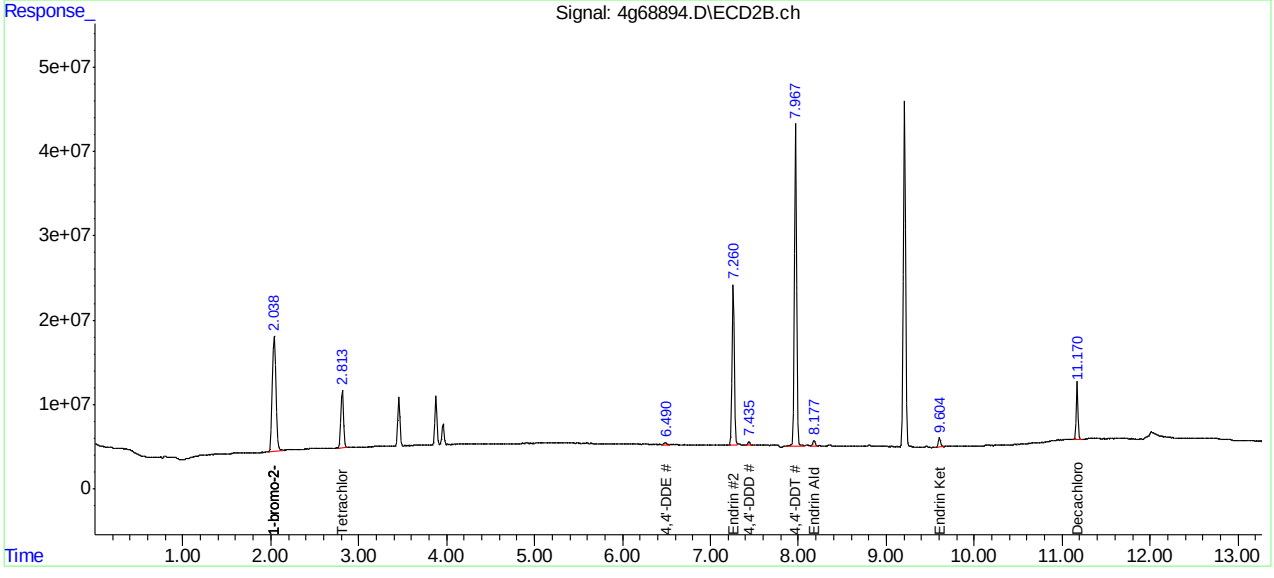
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:49:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1811-DDT	**Method:**	SW846 8081B
Lab FileID:	4G68894.D	**Analyst approved:**	06/06/16 16:55 Joseph Ravino
Injection Time:	06/06/16 11:16	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

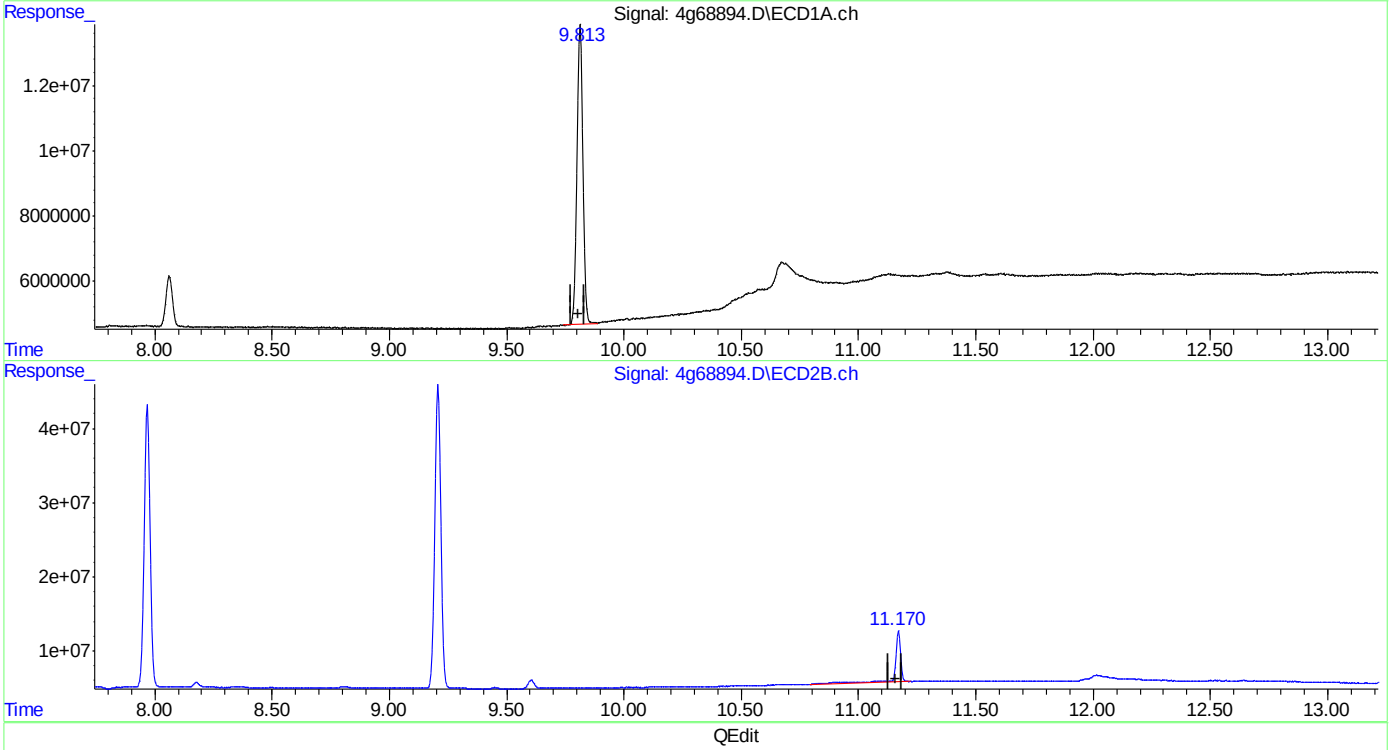
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.22	Poorly defined baseline
4,4'-DDE	72-55-9	2	6.49	Poorly defined baseline
Endrin	72-20-8	2	7.26	Poorly defined baseline
4,4'-DDD	72-54-8	2	7.43	Poorly defined baseline
4,4'-DDT	50-29-3	2	7.97	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.18	Poorly defined baseline
Endrin ketone	53494-70-5	2	9.60	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.17	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 Jun 2016  11:16 am
Operator  : josephr
Sample    : ddt
Misc      : op94393,g4g1811,15.0,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title  : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```



(24) Decachlorobiphenyl (SA)

9.814min 21.476 PPB

response 161851090

(24) Decachlorobiphenyl #2 (SA)

11.170min 27.702 PPB

response 111973680

(+) = Expected Retention Time

4PST1811.M Mon Jun 06 16:47:30 2016 RPT1

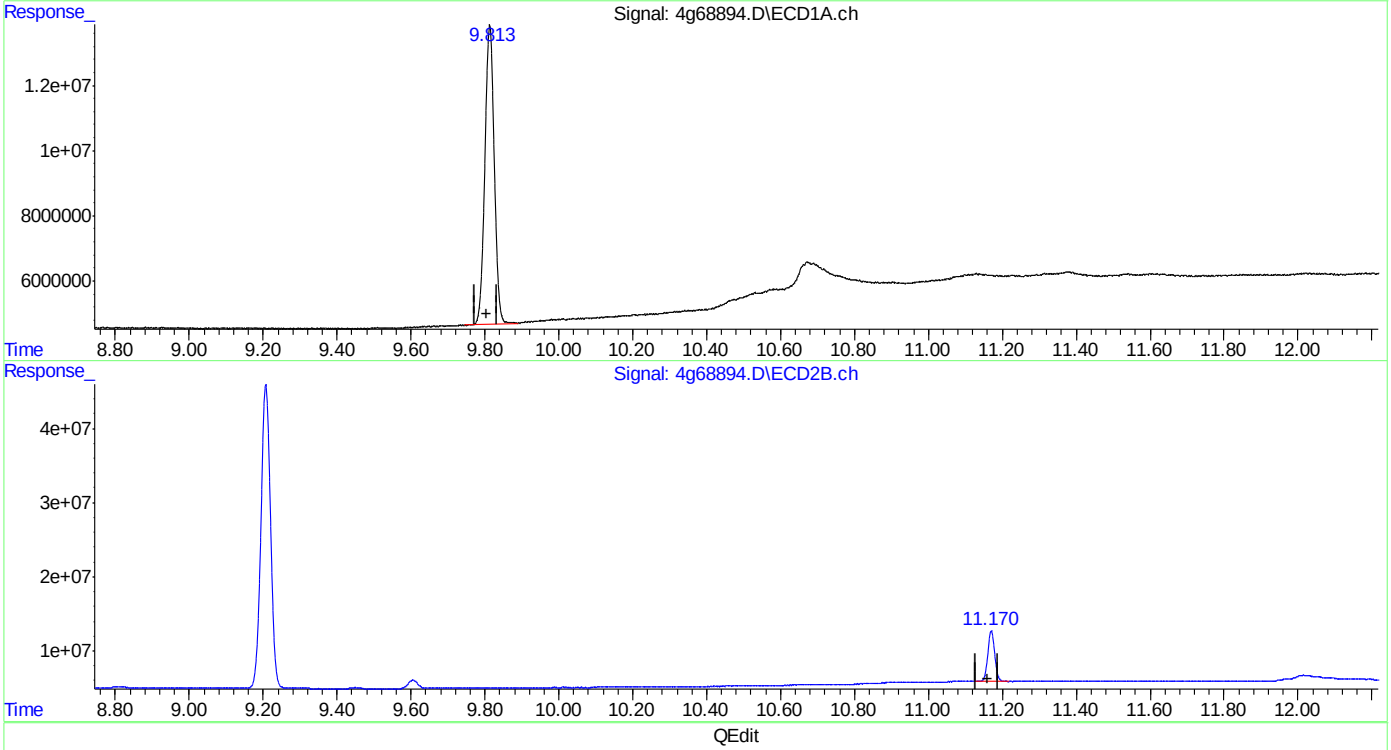
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.814min 21.476 PPB
response 161851090

(24) Decachlorobiphenyl #2 (SA)
11.170min 22.183 PPB m
response 89664959

(+) = Expected Retention Time

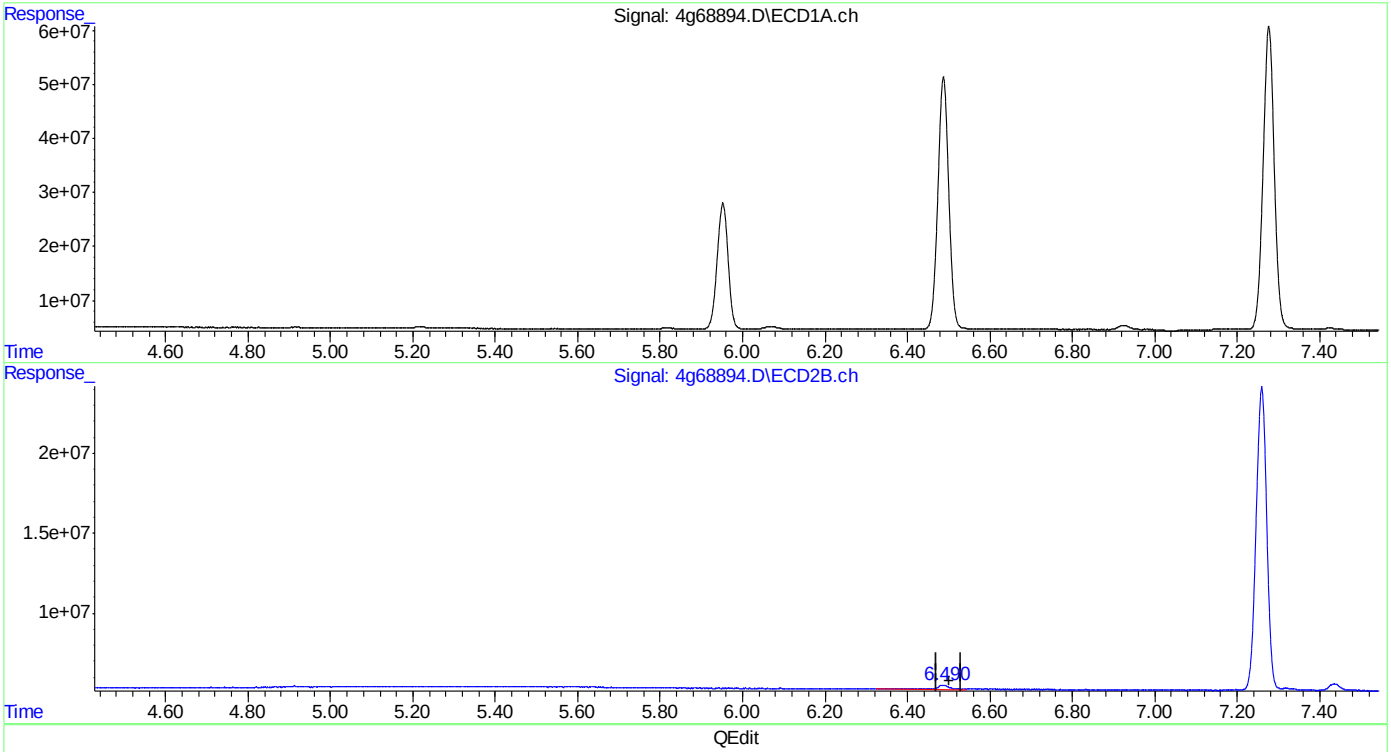
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
6.488min 0.787 PPB
response 6230199

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:47:53 2016 RPT1

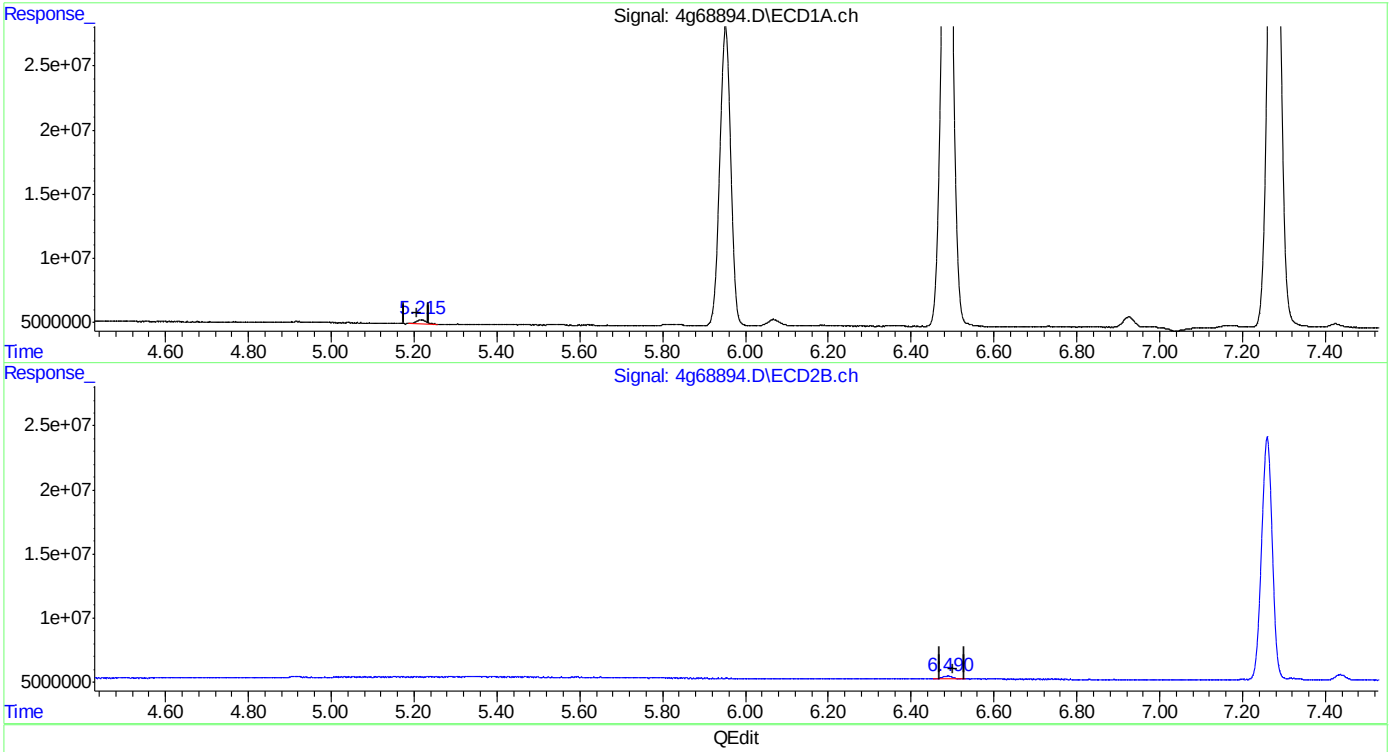
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.215min 0.608 PPB m
response 5502948

(13) 4,4'-DDE #2 (B)
6.490min 0.562 PPB m
response 4446393

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:48:09 2016 RPT1

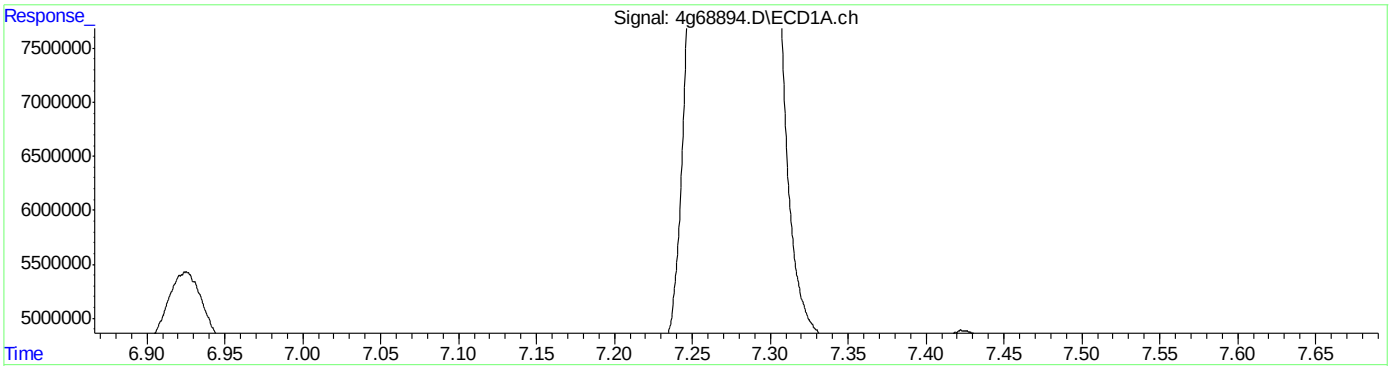
SGS ACCUTEST JC21229

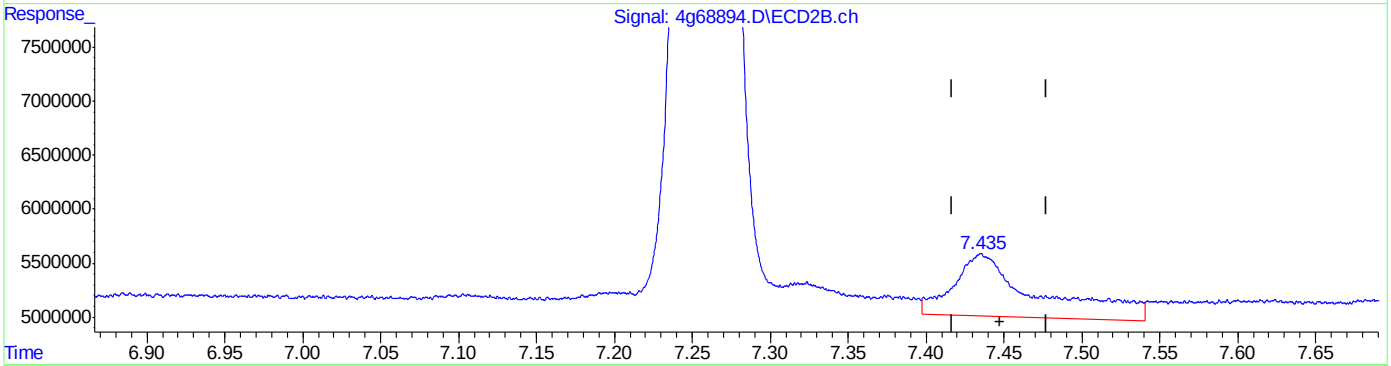
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 Jun 2016  11:16 am
Operator  : josephr
Sample    : ddt
Misc      : op94393,g4g1811,15.0,,,10,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title  : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/column
Signal #1 Phase : RTXCLP I          Signal #2 Phase: RTX-CLP II
Signal #1 Info  : 30mx.32mmx.32um   Signal #2 Info : 30m x .32mm x .25um
```





QEdit

(16) 4,4'-DDD (A)
6.067min 1.126 PPB
response 8531892

(16) 4,4'-DDD #2 (A)
7.436min 3.614 PPB
response 21857720

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
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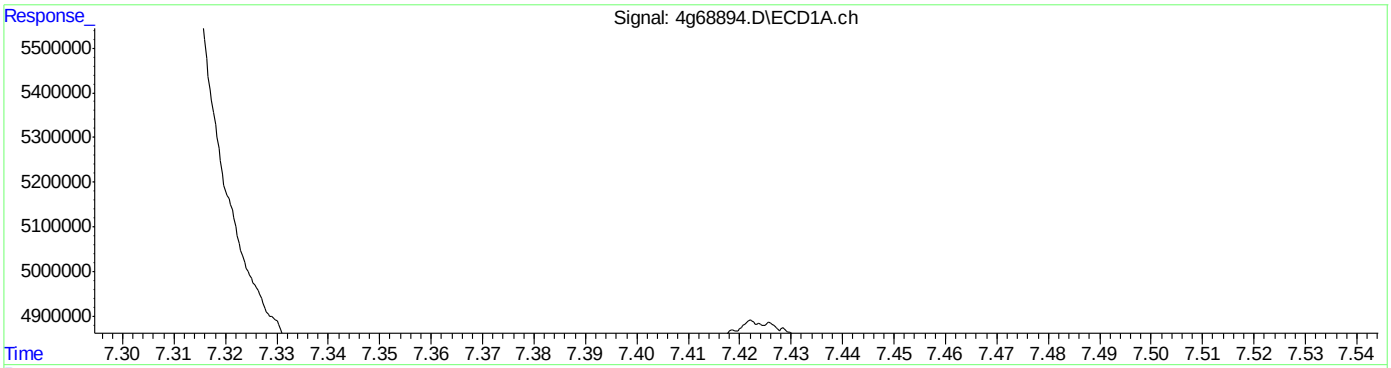
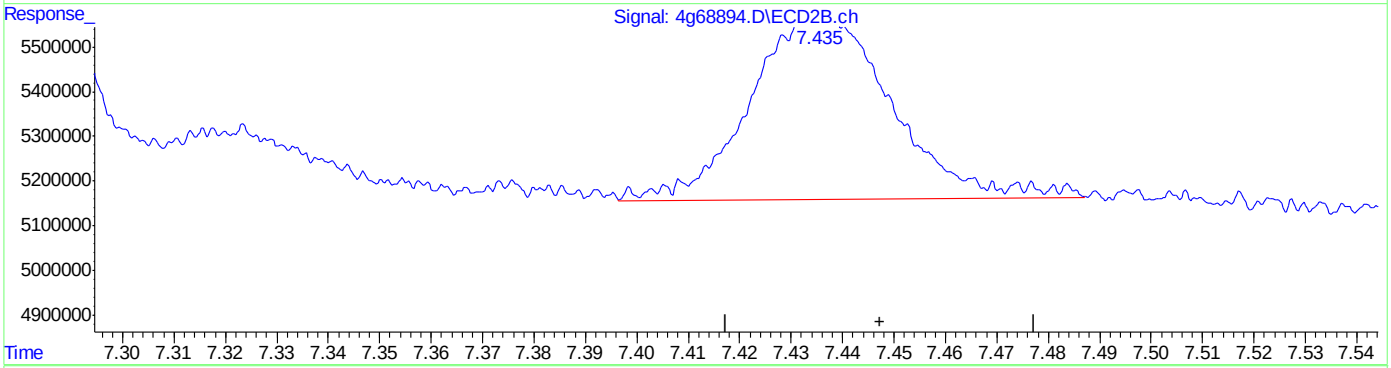
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.067min 1.126 PPB
response 8531892

(16) 4,4'-DDD #2 (A)
7.435min 1.319 PPB m
response 7977095

(+) = Expected Retention Time

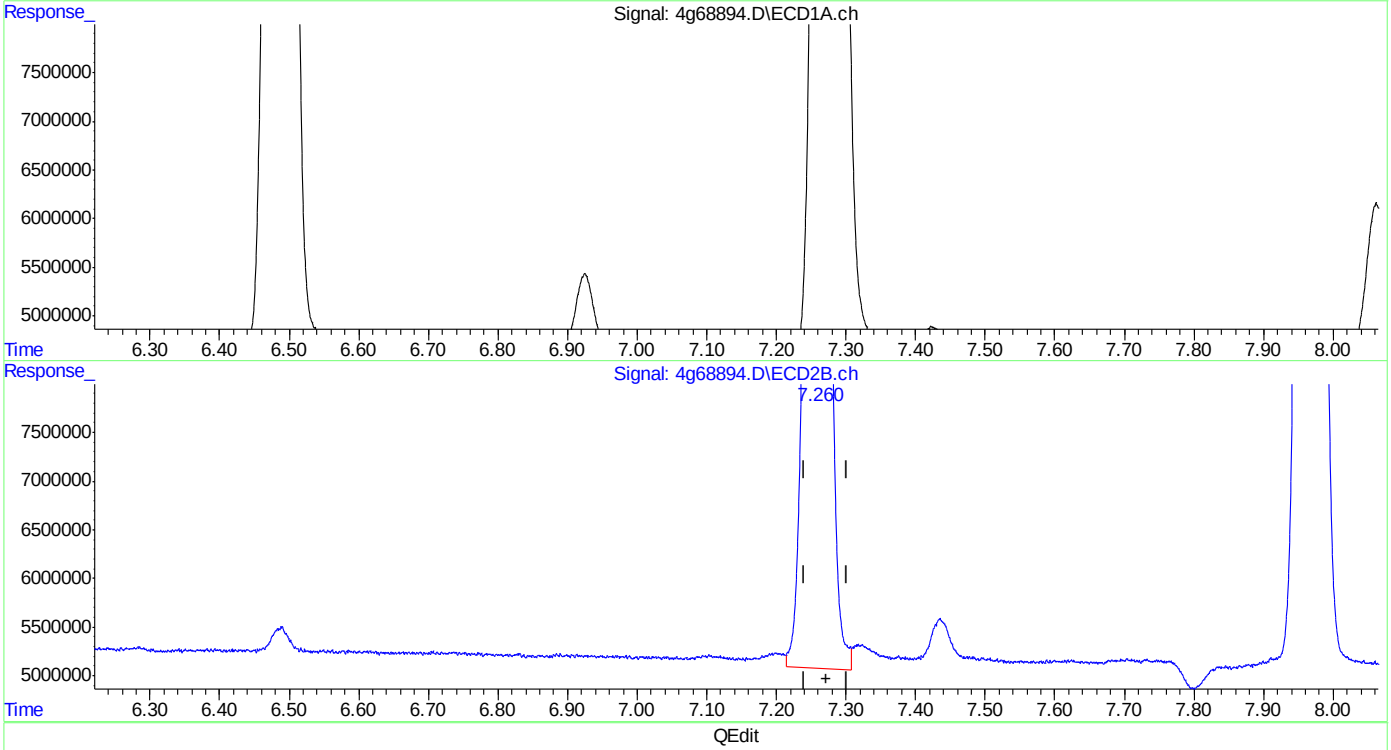
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(15) Endrin (MA)
5.952min 50.880 PPB
response 428166096

(15) Endrin #2 (MA)
7.260min 51.813 PPB
response 345926627

(+) = Expected Retention Time

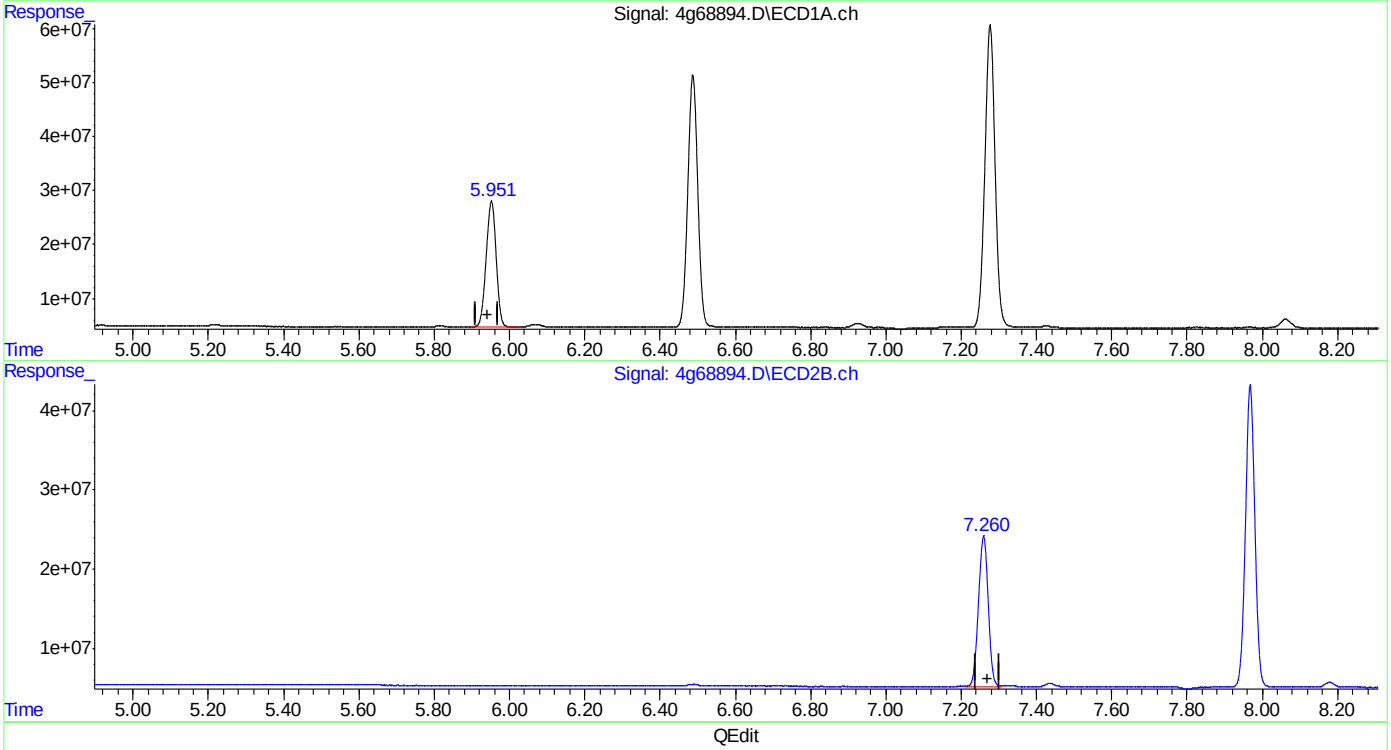
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(15) Endrin (MA)
5.952min 50.880 PPB
response 428166096

(15) Endrin #2 (MA)
7.260min 51.113 PPB m
response 341253512

(+) = Expected Retention Time

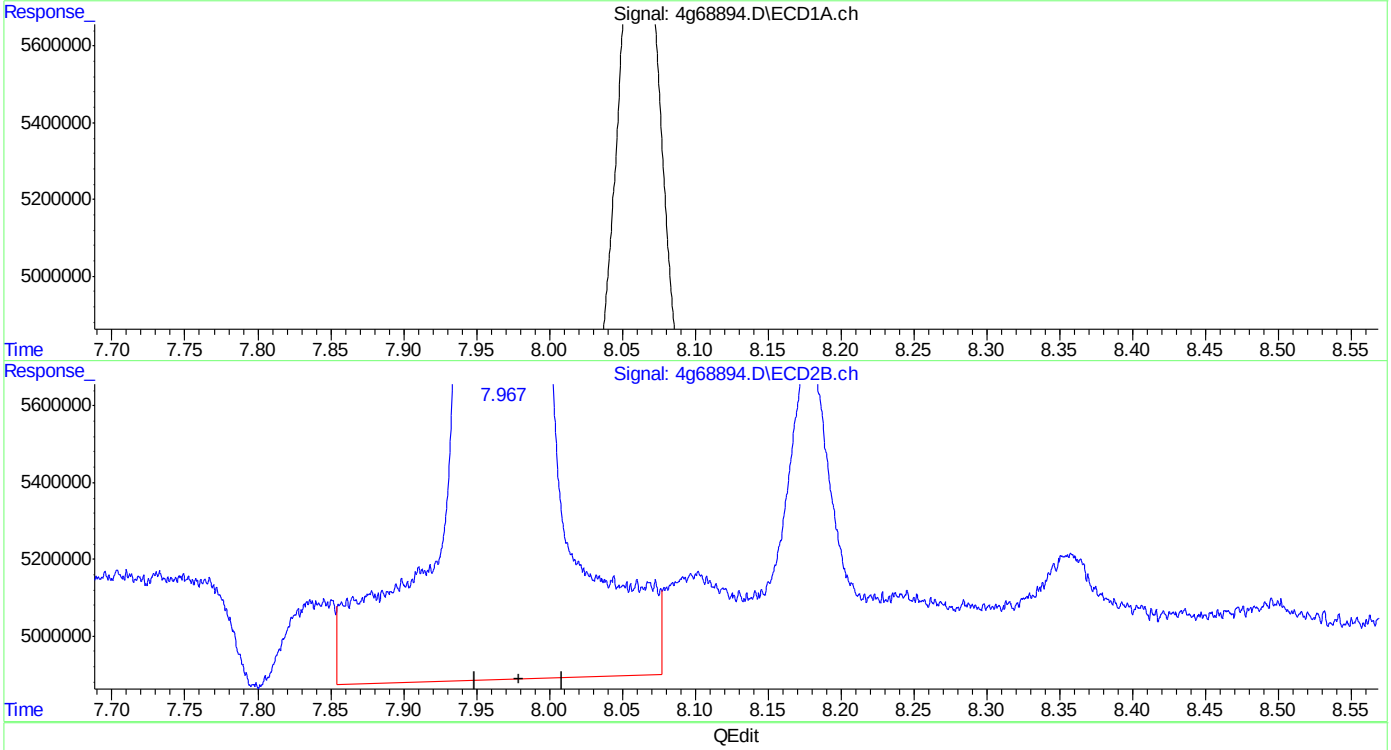
4PST1811.M Mon Jun 06 16:48:33 2016 RPT1 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.487min 113.438 PPB
response 858412356

(18) 4,4'-DDT #2 (MA)
7.968min 121.283 PPB
response 691853138

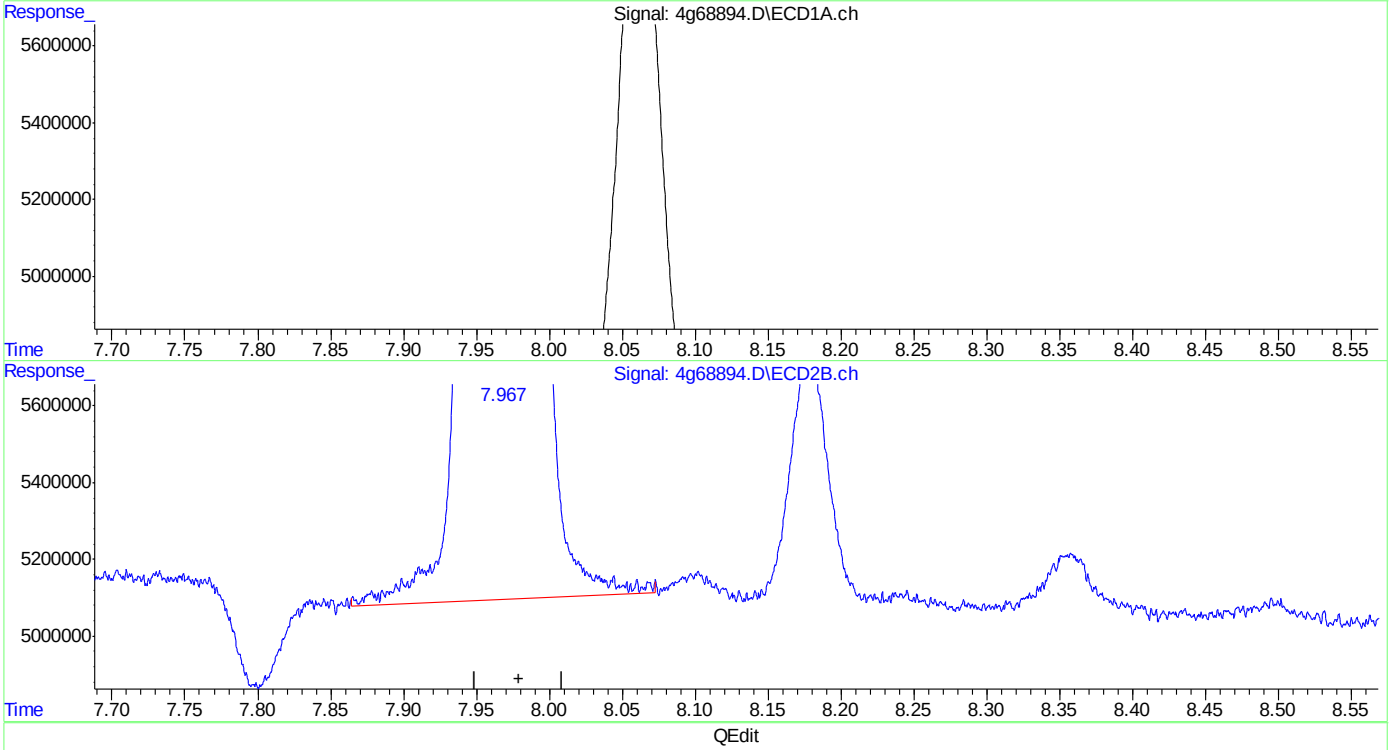
(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:48:38 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(18) 4,4'-DDT (MA)
6.487min 113.438 PPB
response 858412356

(18) 4,4'-DDT #2 (MA)
7.967min 116.398 PPB m
response 663986238

(+) = Expected Retention Time

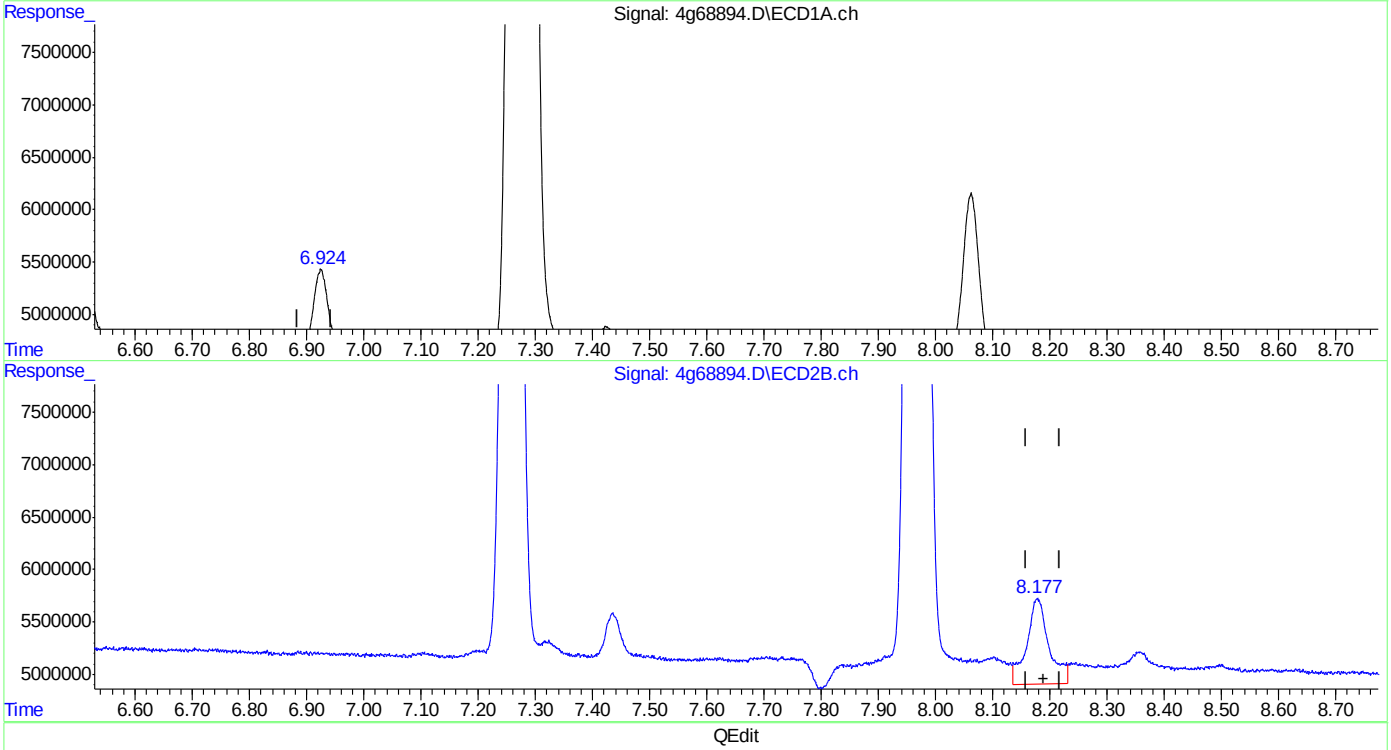
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.925min 2.185 PPB
response 14921308

(19) Endrin Aldehyde #2 (B)
8.178min 4.332 PPB
response 21784429

(+) = Expected Retention Time

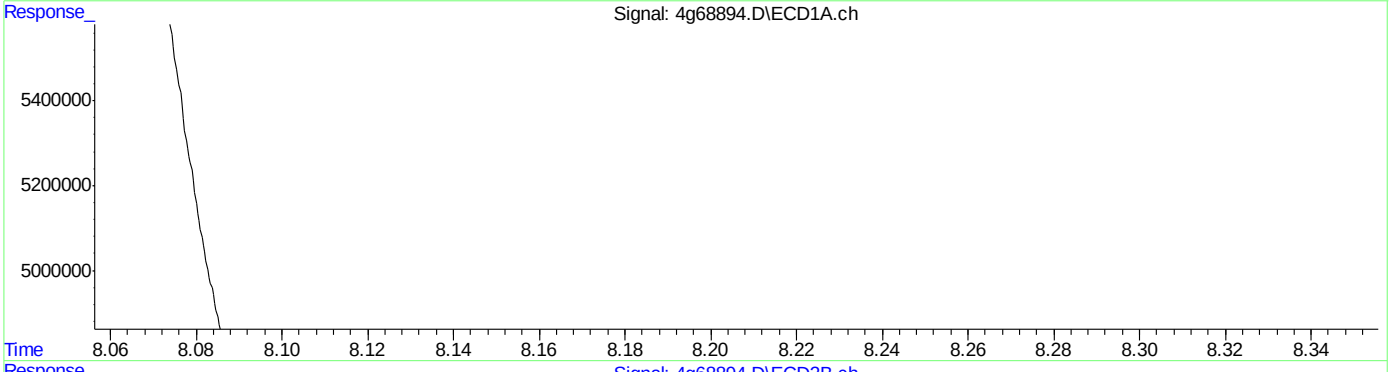
SGS ACCUTEST JC21229

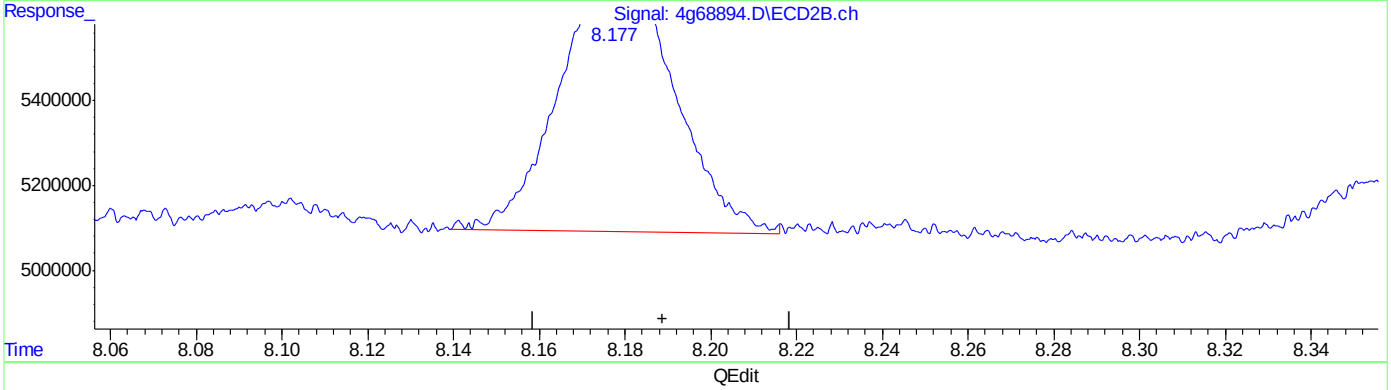
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
6.925min 2.185 PPB
response 14921308

(19) Endrin Aldehyde #2 (B)
8.177min 2.282 PPB m
response 11478096

(+) = Expected Retention Time

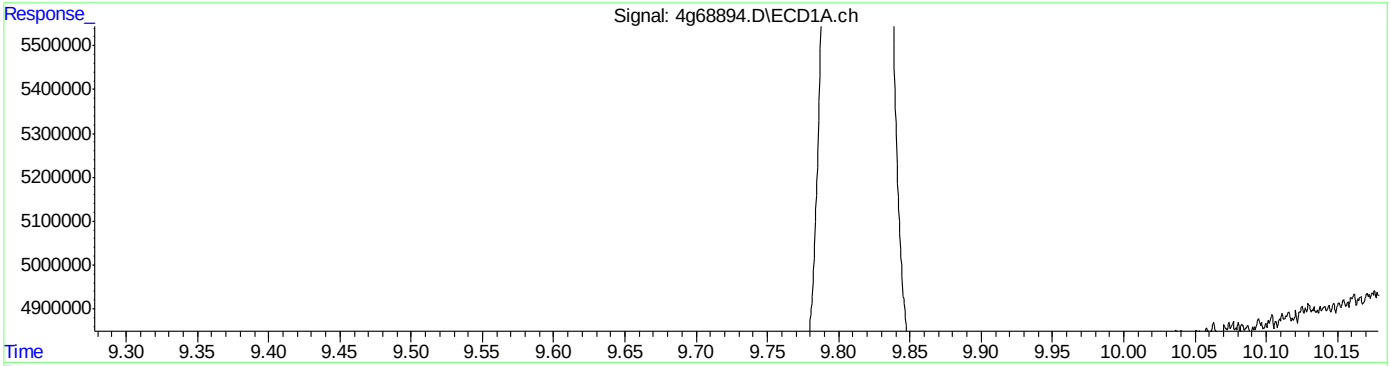
SGS ACCUTEST JC21229

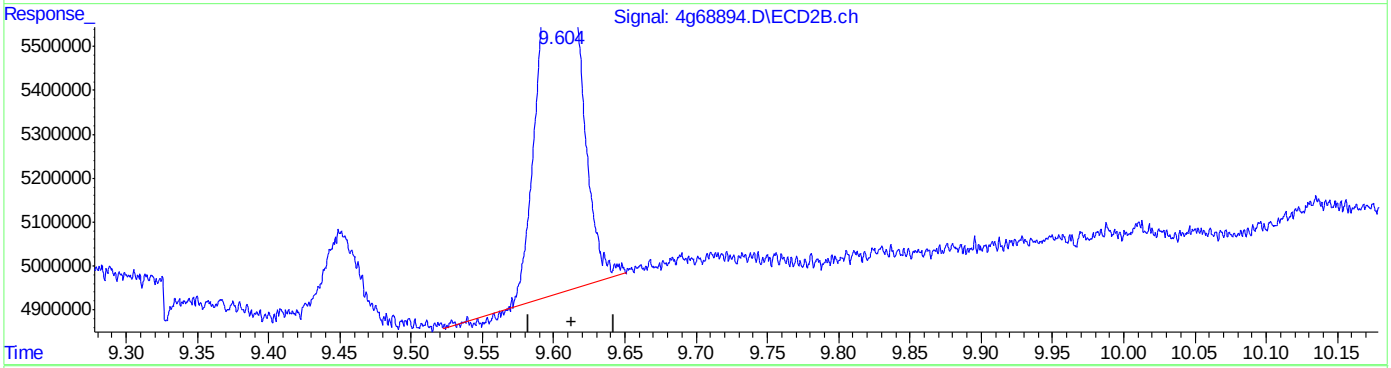
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.062min 3.438 PPB
response 30057749

(23) Endrin Ketone #2 (B)
9.605min 3.554 PPB
response 19865802

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:48:58 2016 RPT1

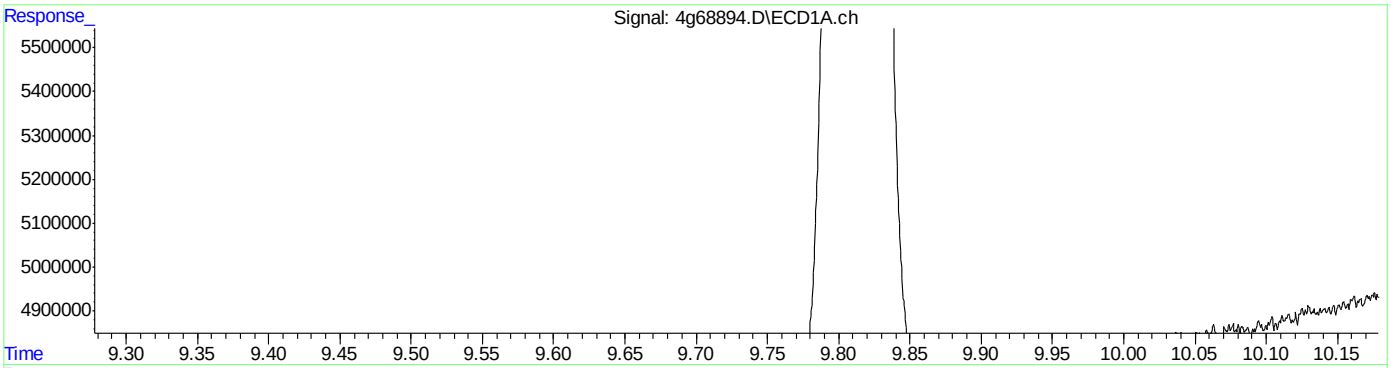
SGS ACCUTEST JC21229

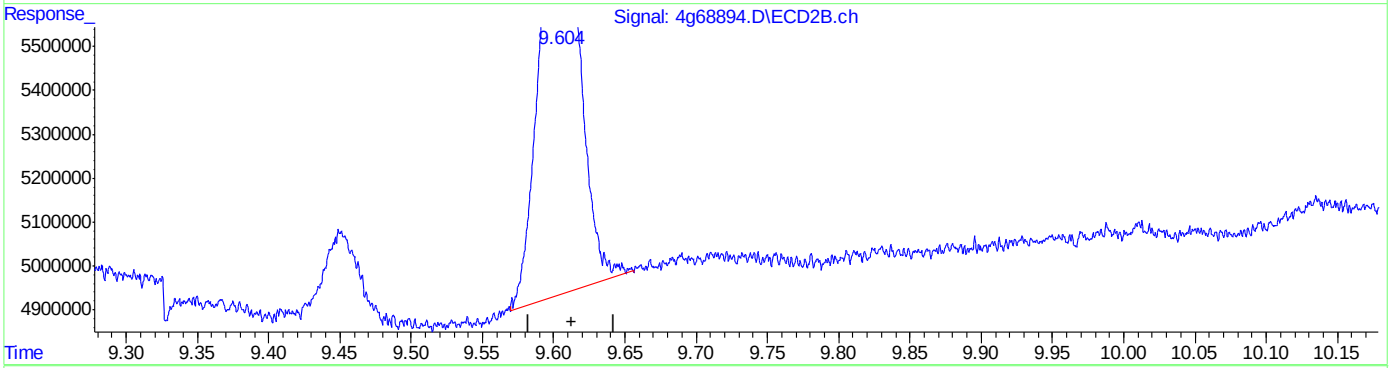
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68894.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:16 am
Operator : josephr
Sample : ddt
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:47:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.062min 3.438 PPB
response 30057749

(23) Endrin Ketone #2 (B)
9.604min 3.633 PPB m
response 20303559

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:49:03 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/08/16 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:17:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.871	2.047	536.7E6	505.4E6	50.000	50.000
25) I	1-bromo-2...	1.871	2.047	536.7E6	505.4E6	50.000	50.000
31) I	1-bromo-2...	1.871	2.047	536.7E6	505.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.427	2.823	193.7E6	169.4E6	20.788	18.354
Spiked Amount		40.000	Range	30 - 150	Recovery	= 51.97%	45.88%
24) SA	Decachlor...	9.800	11.153	168.0E6	100.9E6	20.818	20.045
Spiked Amount		40.000			Recovery	= 52.05%	50.11%
	Target Compounds						
13) B	4,4'-DDE	5.203	6.500	10107599	6884651	1.042m	0.699m#
15) MA	Endrin	5.937	7.269	474.5E6	381.9E6	52.665	45.948
16) A	4,4'-DDD	6.055	7.446	8472182	6869642	1.044m	0.913m
18) MA	4,4'-DDT	6.474	7.976	885.7E6	686.8E6	109.319	96.721
19) B	Endrin Al...	6.906	8.184	4435095	3778344	0.606m	0.604m
23) B	Endrin Ke...	8.047	9.609	19928940	13299705	2.129	1.912m
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

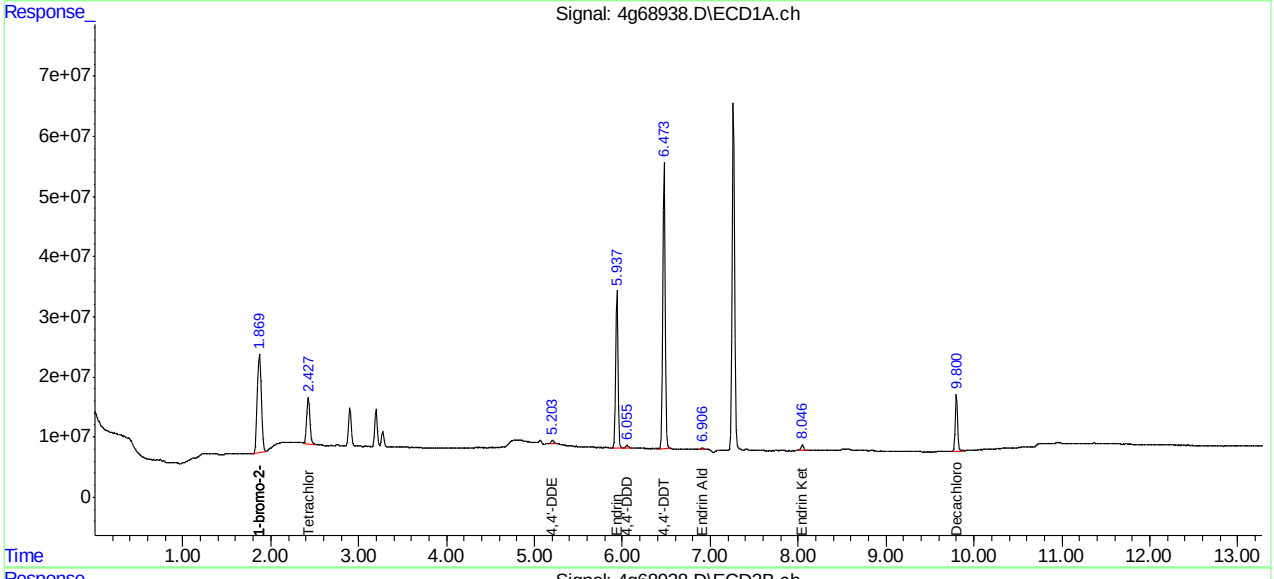
11.5.10 11

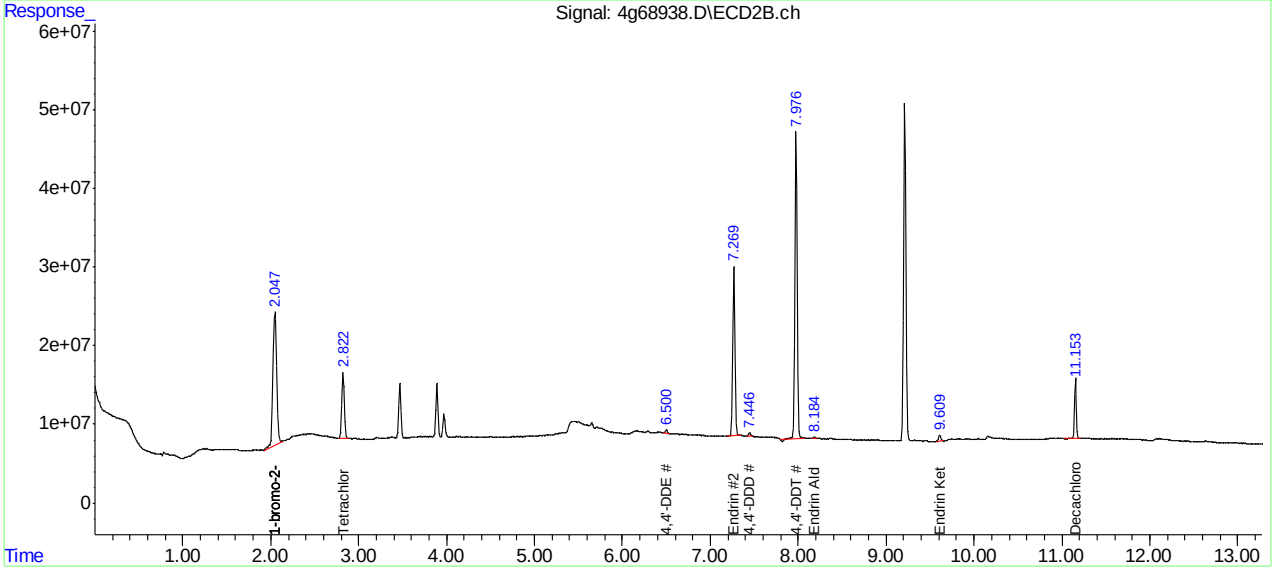
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:17:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1813-DDT	**Method:**	EPA 608
Lab FileID:	4G68938.D	**Analyst approved:**	06/07/16 14:49 Joseph Ravino
Injection Time:	06/07/16 09:06	**Supervisor approved:**	06/08/16 11:20 Gwendolyn Burns

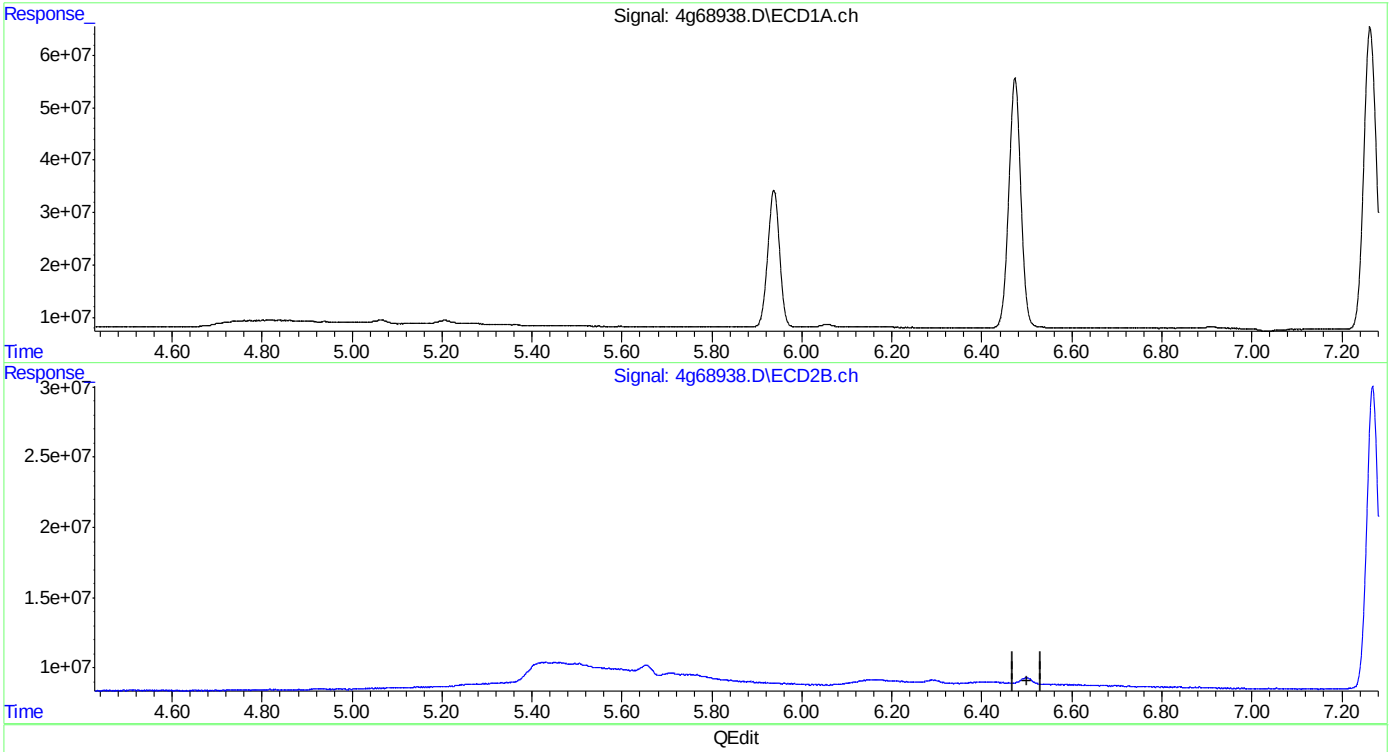
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDE	72-55-9	1	5.20	Poorly defined baseline
4,4'-DDD	72-54-8	1	6.05	Poorly defined baseline
4,4'-DDE	72-55-9	2	6.50	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.91	Poorly defined baseline
4,4'-DDD	72-54-8	2	7.45	Poorly defined baseline
Endrin aldehyde	7421-93-4	2	8.18	Poorly defined baseline
Endrin ketone	53494-70-5	2	9.61	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(13) 4,4'-DDE (B)
0.000min 0.000 PPB
response 0

(13) 4,4'-DDE #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time
4PST1811.M Tue Jun 07 12:16:31 2016 RPT1

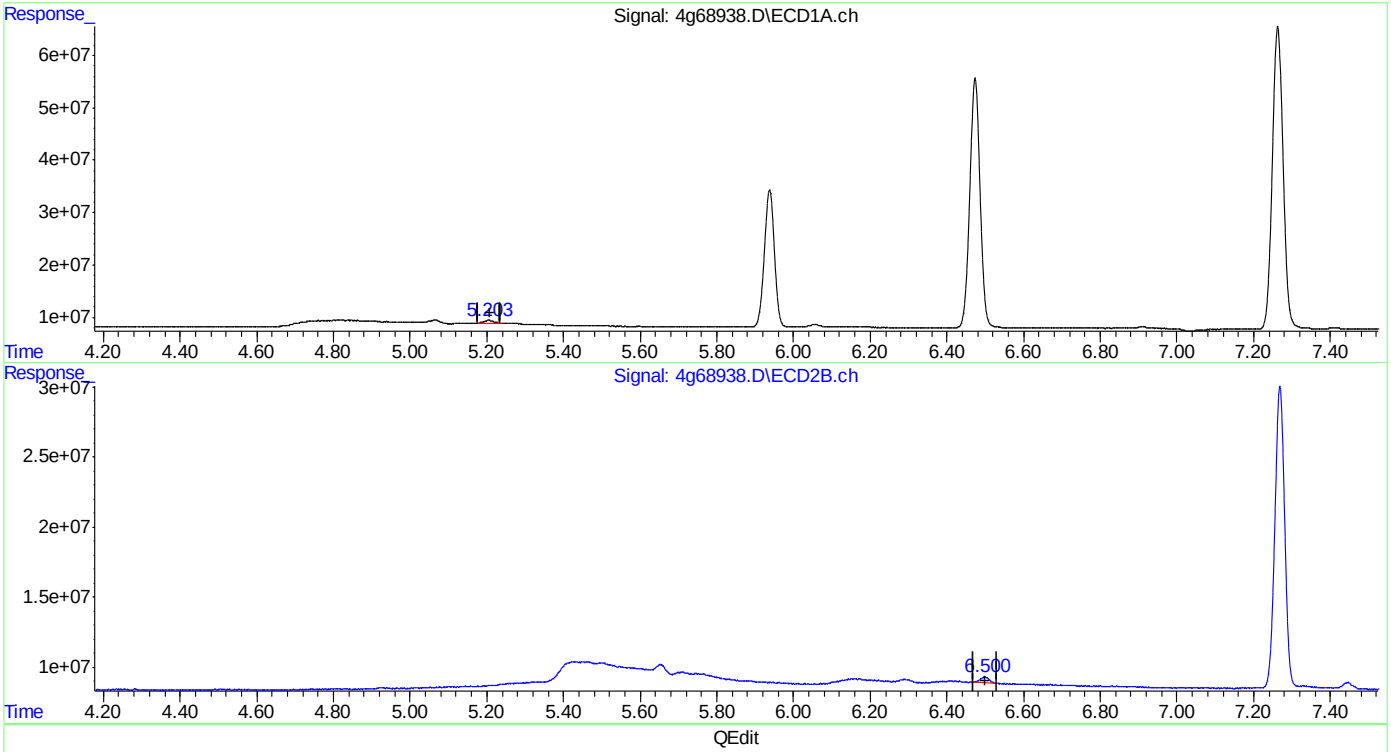
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(13) 4,4'-DDE (B)
5.203min 1.042 PPB m
response 10107599

(13) 4,4'-DDE #2 (B)
6.500min 0.699 PPB m
response 6884651

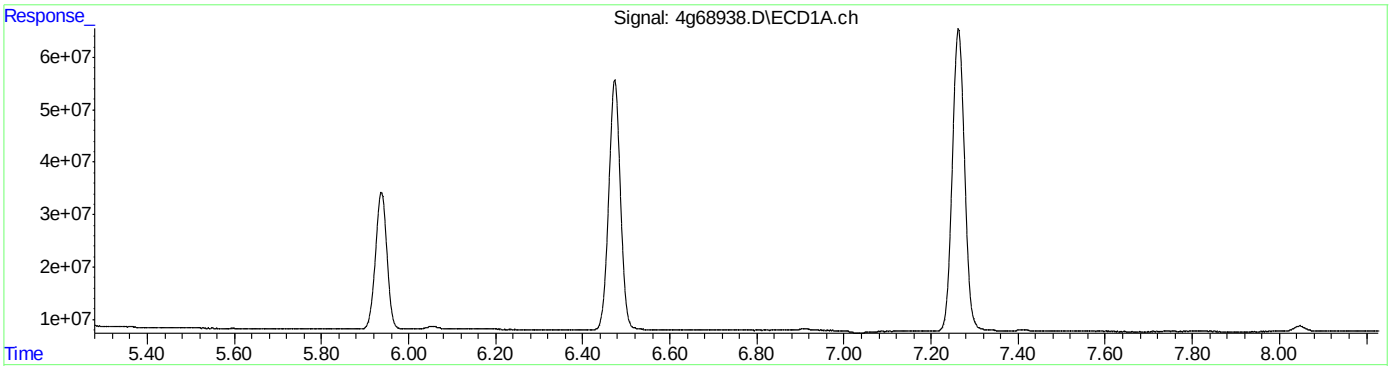
(+) = Expected Retention Time
4PST1811.M Tue Jun 07 12:16:48 2016 RPT1

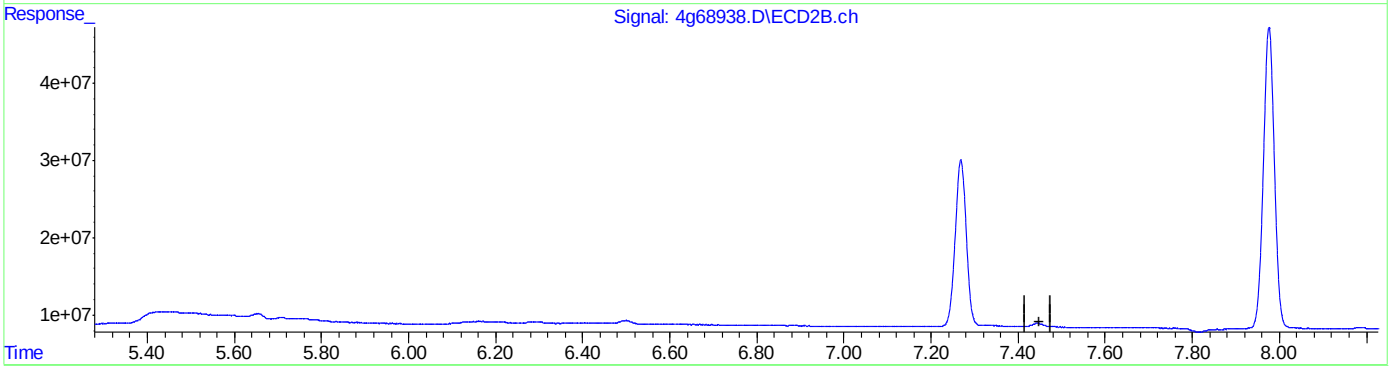
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
0.000min 0.000 PPB
response 0

(16) 4,4'-DDD #2 (A)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time

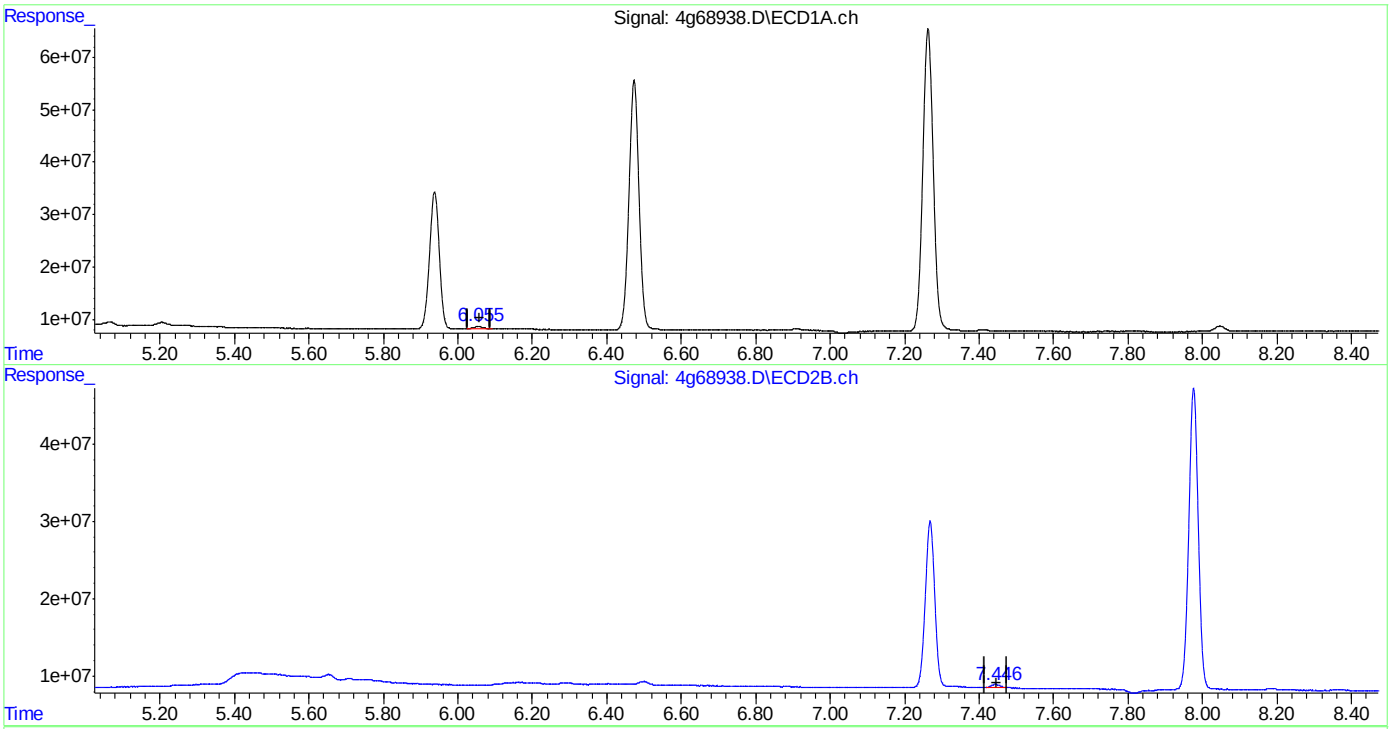
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(16) 4,4'-DDD (A)
6.055min 1.044 PPB m
response 8472182

(16) 4,4'-DDD #2 (A)
7.446min 0.913 PPB m
response 6869642

(+) = Expected Retention Time

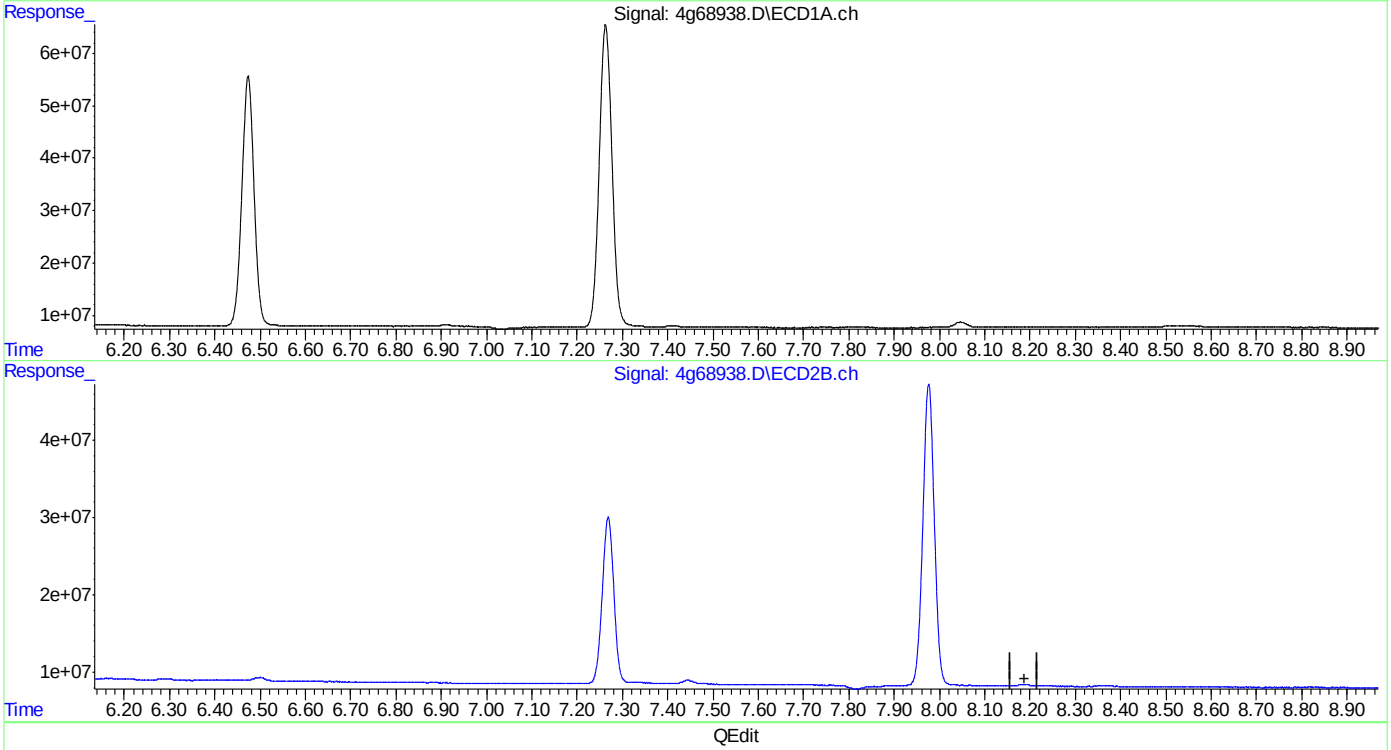
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
0.000min 0.000 PPB
response 0

(19) Endrin Aldehyde #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time
4PST1811.M Tue Jun 07 12:17:15 2016 RPT1

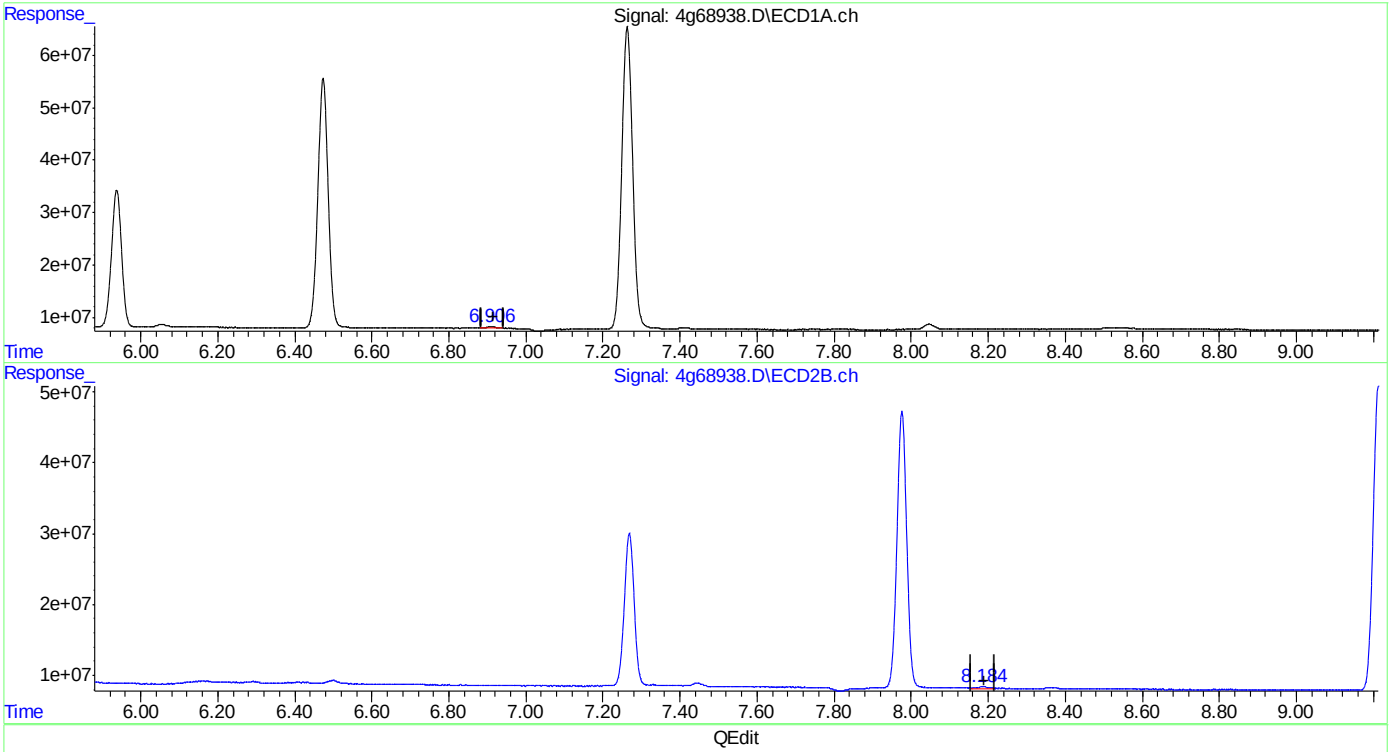
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.906min 0.606 PPB m
response 4435095

(19) Endrin Aldehyde #2 (B)
8.184min 0.604 PPB m
response 3778344

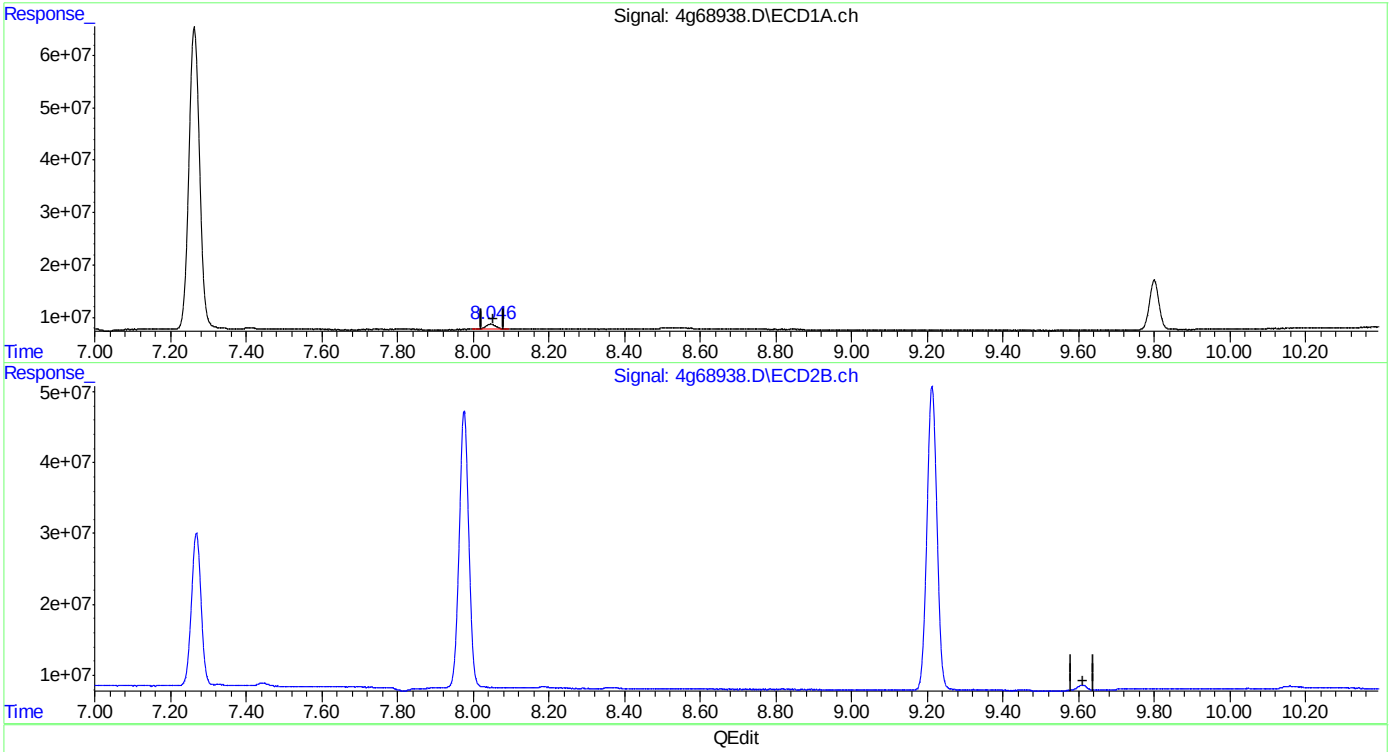
(+) = Expected Retention Time
4PST1811.M Tue Jun 07 12:17:31 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(23) Endrin Ketone (B)
8.047min 2.129 PPB
response 19928940

(23) Endrin Ketone #2 (B)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time

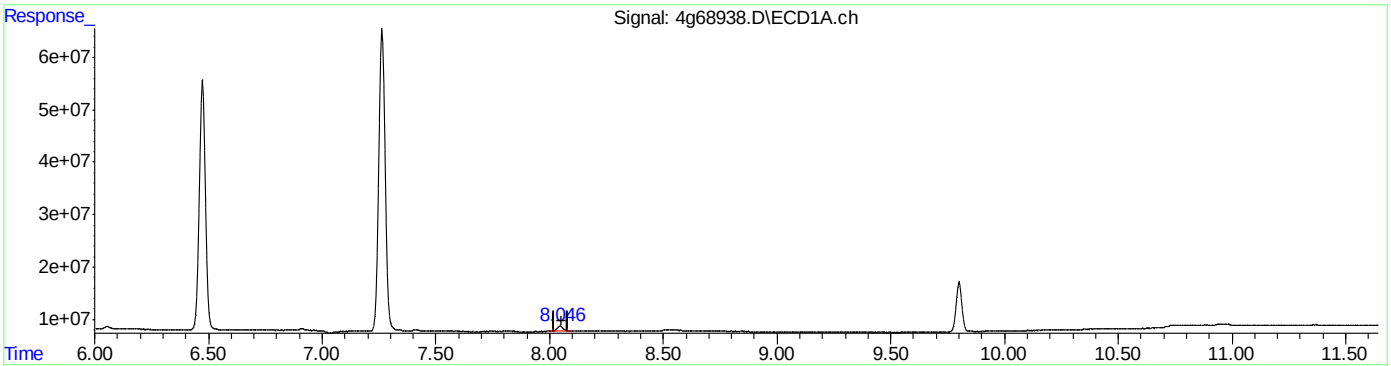
SGS ACCUTEST JC21229

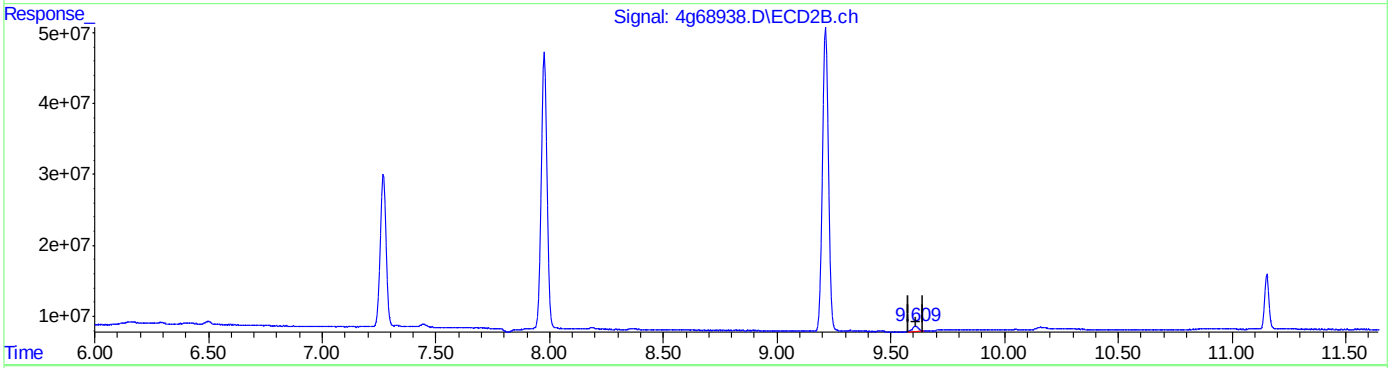
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68938.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 9:06 am
Operator : kristend
Sample : ddt
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:16:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.047min 2.129 PPB
response 19928940

(23) Endrin Ketone #2 (B)
9.609min 1.912 PPB m
response 13299705

(+) = Expected Retention Time
4PST1811.M Tue Jun 07 12:17:43 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	97981670	767.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	1593097	13048604	1.032m	1.032
Spiked Amount	40.000	Range	30 - 150	Recovery	=	2.58%#	2.58%#
24) SA	Decachlorobiphen	9.24	10.68	2597406	11137800	1.192	1.256
Spiked Amount	40.000			Recovery	=	2.98%	3.14%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	2216924	18467738	0.930	0.983
4) MA	gamma-BHC	2.71	3.35	2024492	16275184	0.909	0.958
5) MA	Heptachlor	3.20	3.90	2441832	15659516	1.072	0.982
6) B	beta-BHC	2.79	3.43	1135172	7800568	1.050m	1.022
7) B	delta-BHC	2.97	3.81	2171307	15797517	1.005	0.950
8) MB	Aldrin	3.53	4.34	2019036	14551482	0.935	0.968
9) B	Heptachlor Epoxi	4.25	5.14	2165480	14276101	1.028	1.062
10) B	gamma-Chlordane	4.40	5.42	2465581	15200309	1.169	1.136
11) B	alpha-Chlordane	4.57	5.64	2379533	15515114	1.148	1.178
12) A	Endosulfan I	4.75	5.73	2276516	12414982	1.106	0.999
13) B	4,4'-DDE	4.68	5.90	2363972	15081593	1.100	1.143
14) MA	Dieldrin	5.07	6.16	2240390	15873467	1.007	1.164
15) MA	Endrin	5.40	6.65	2231189	14587124	1.119	1.389
16) A	4,4'-DDD	5.51	6.84	1723248	11581992	0.985m	1.008
17) B	Endosulfan II	5.72	6.99	2223675	15003113	1.077	1.126
18) MA	4,4'-DDT	5.92	7.36	1997680	10752582	1.050m	1.049m
19) B	Endrin Aldehyde	6.35	7.56	1723536	11015067	1.117m	1.188
20) B	Endosulfan Sulfa	7.04	8.03	2613752	11897470	1.590	1.188
21) A	Methoxychlor	6.70	8.60	1332584	7701428	1.342m	1.543
22)	Mirex	6.83	8.90	2154376	11644852	1.252	1.324
23) B	Endrin Ketone	7.47	8.97	2552572	13997924	1.387	1.254

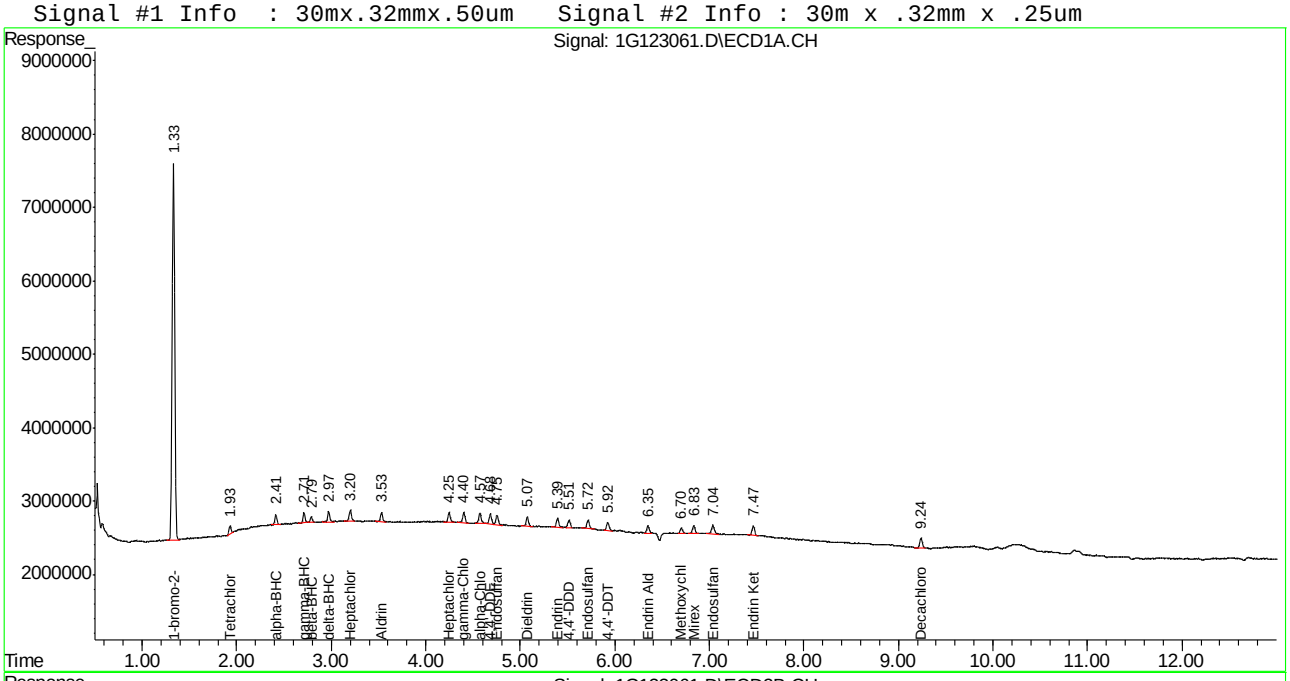
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123061.D 1PST3988.M Mon May 16 13:24:09 2016 RPT1 Page 1

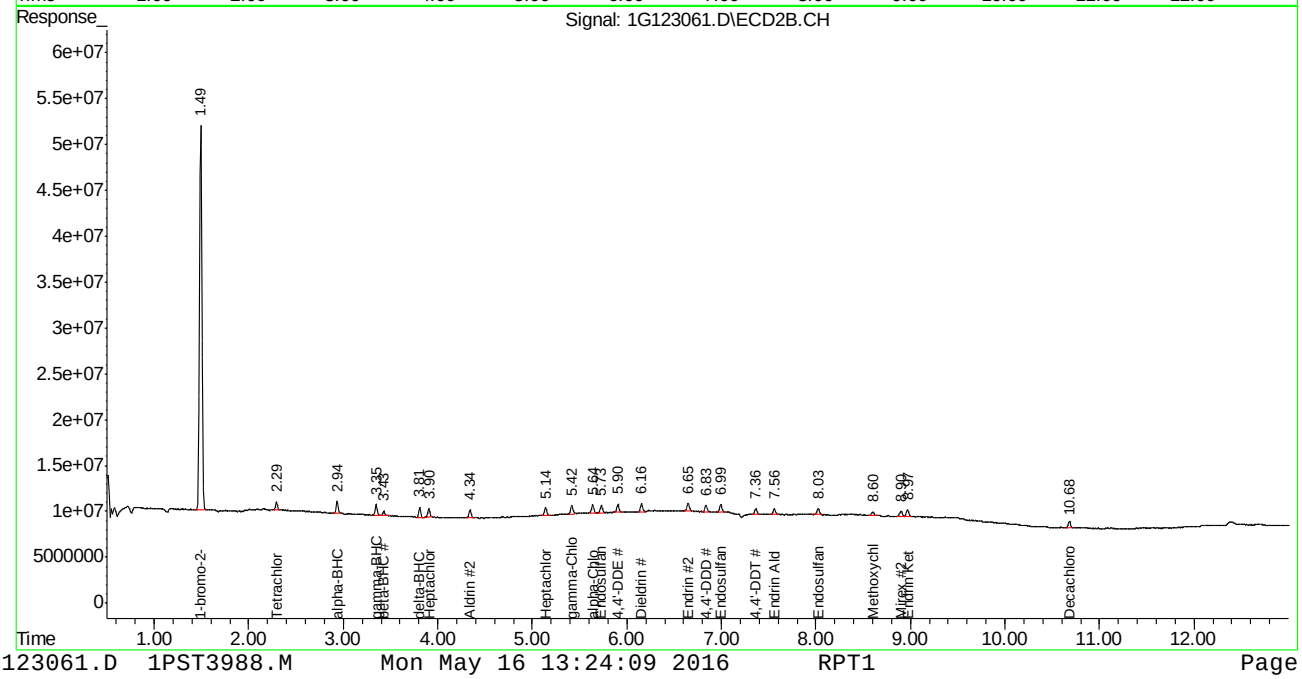
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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

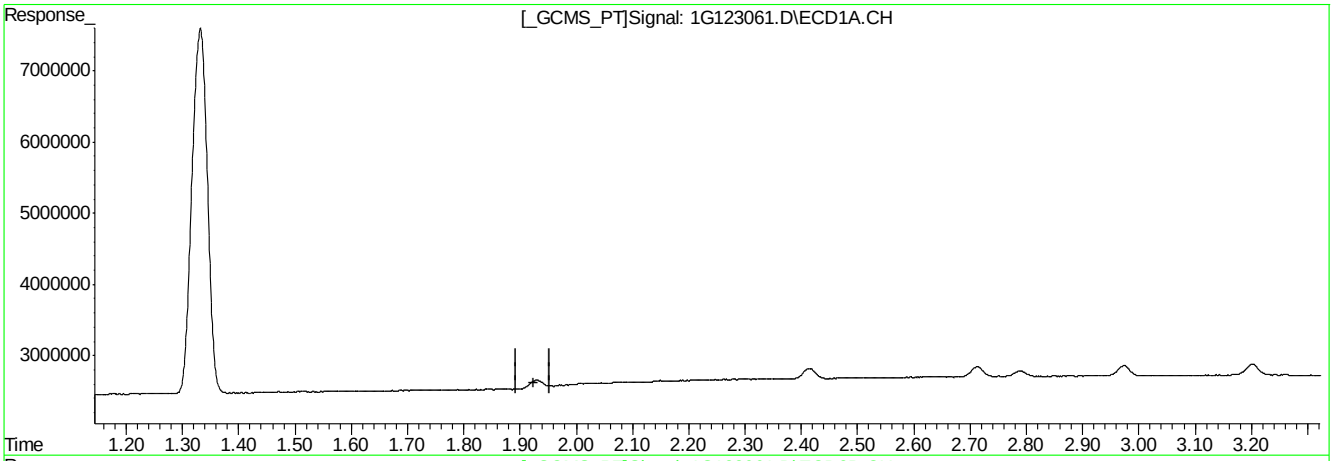
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123061.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 10:11	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

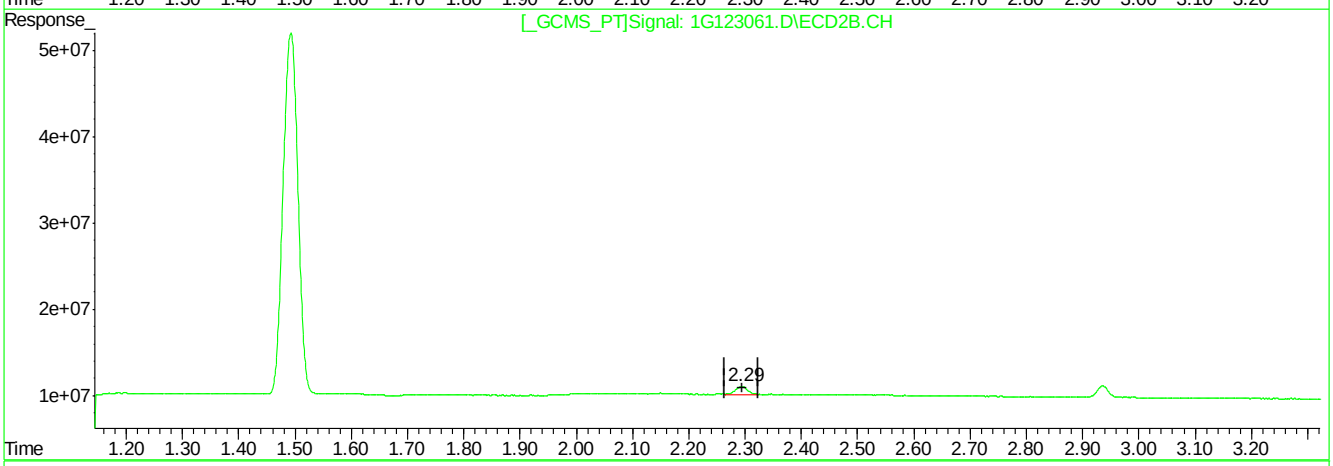
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrachloro-m-xylene	877-09-8	1	1.93	Poor instrument integration
beta-BHC	319-85-7	1	2.79	Poor instrument integration
4,4'-DDD	72-54-8	1	5.51	Poor instrument integration
4,4'-DDT	50-29-3	1	5.92	Poor instrument integration
Endrin aldehyde	7421-93-4	1	6.35	Poor instrument integration
Methoxychlor	72-43-5	1	6.70	Poor instrument integration
4,4'-DDT	50-29-3	2	7.36	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

0.00min 0.000PPB

response 0

(2) Tetrachloro-m-xylene #2 (SAB)

2.29min 1.032PPB

response 13048604

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:27:54 2016 RPT1

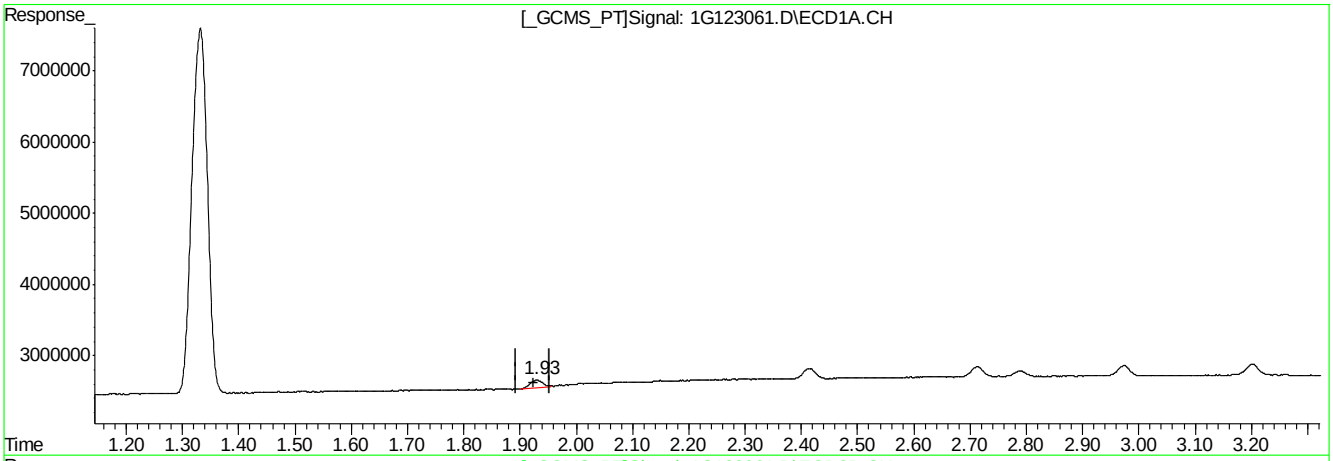
11.6.1.2

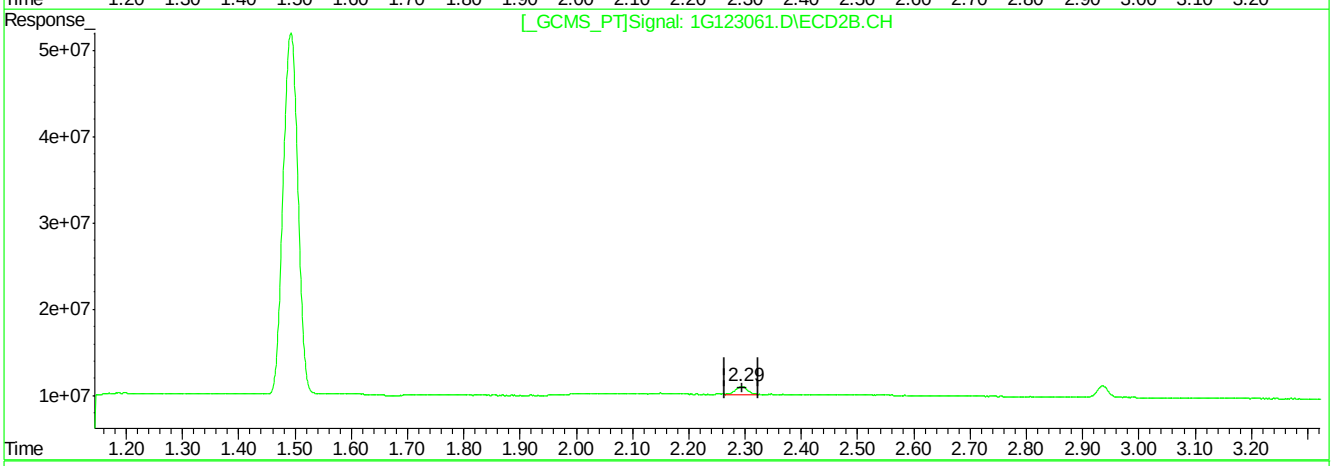
11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(2) Tetrachloro-m-xylene (SAB)

1.93min 1.032PPB m

response 1593097

(2) Tetrachloro-m-xylene #2 (SAB)

2.29min 1.032PPB

response 13048604

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:28:03 2016 RPT1

11.6.1.3

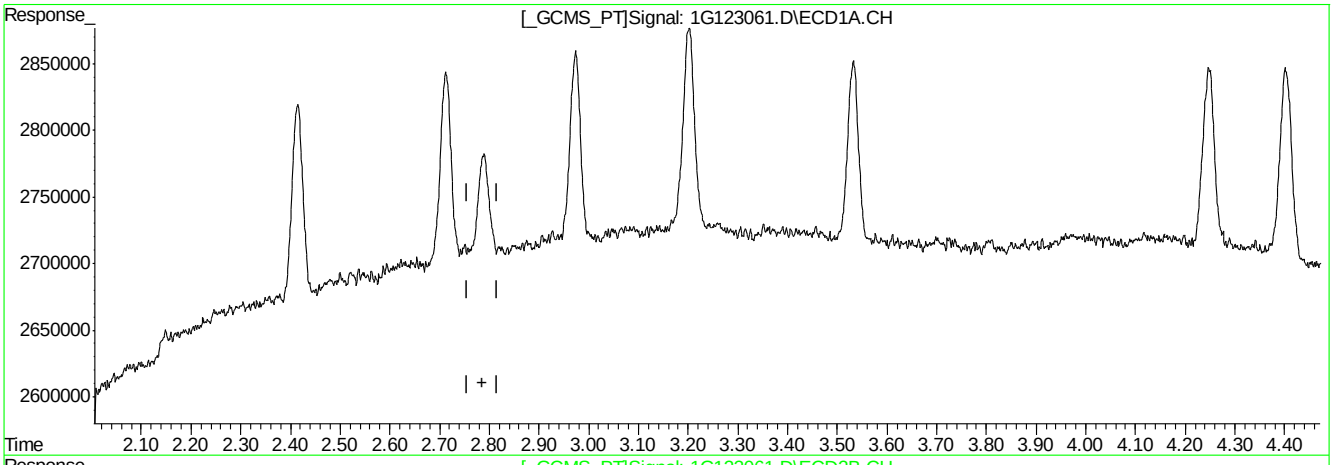
11

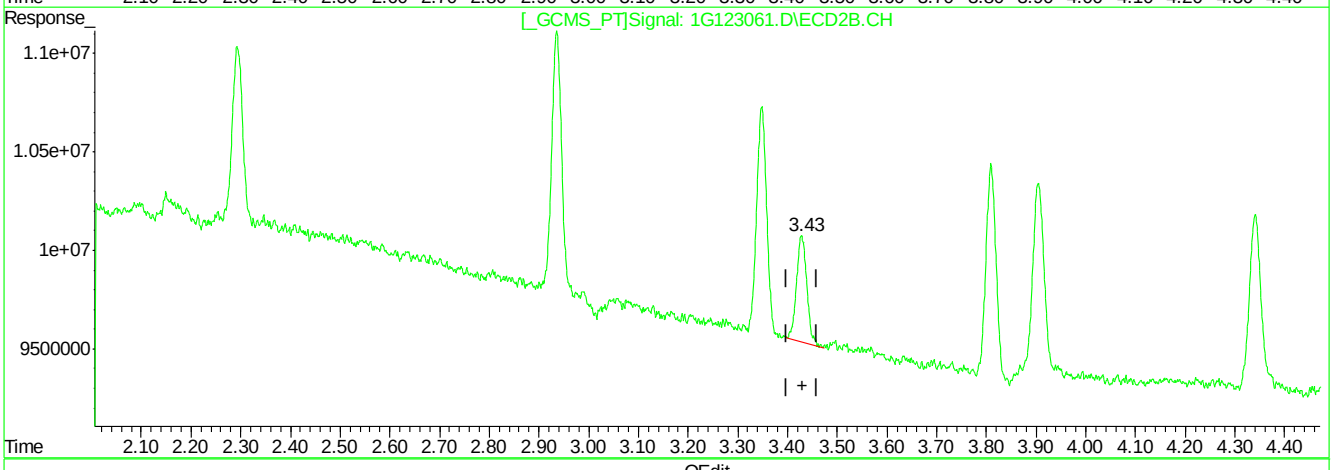
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(6) beta-BHC (B)

0.00min 0.000PPB

response 0

(6) beta-BHC #2 (B)

3.43min 1.022PPB

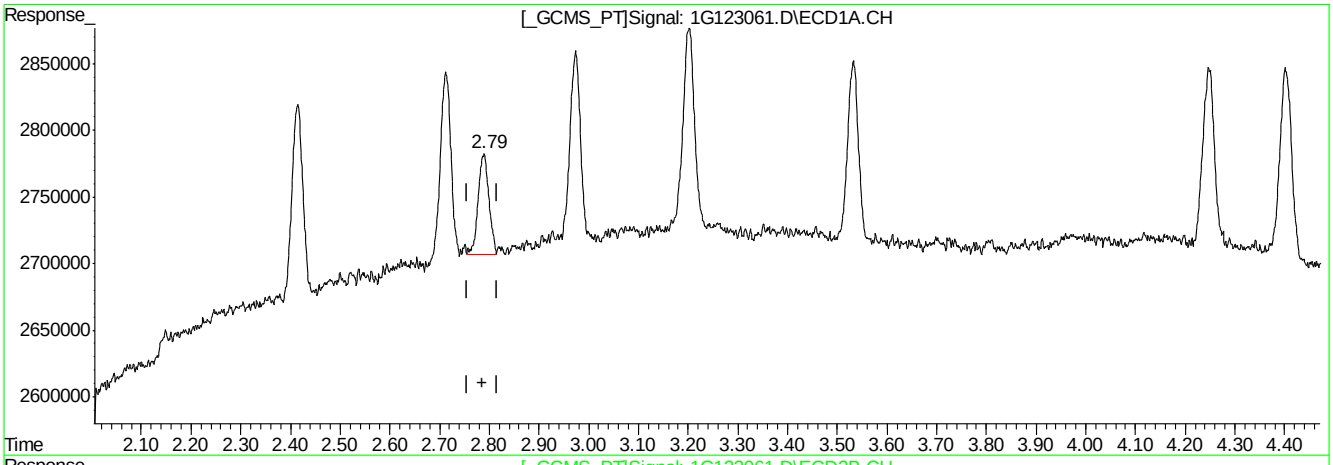
response 7800568

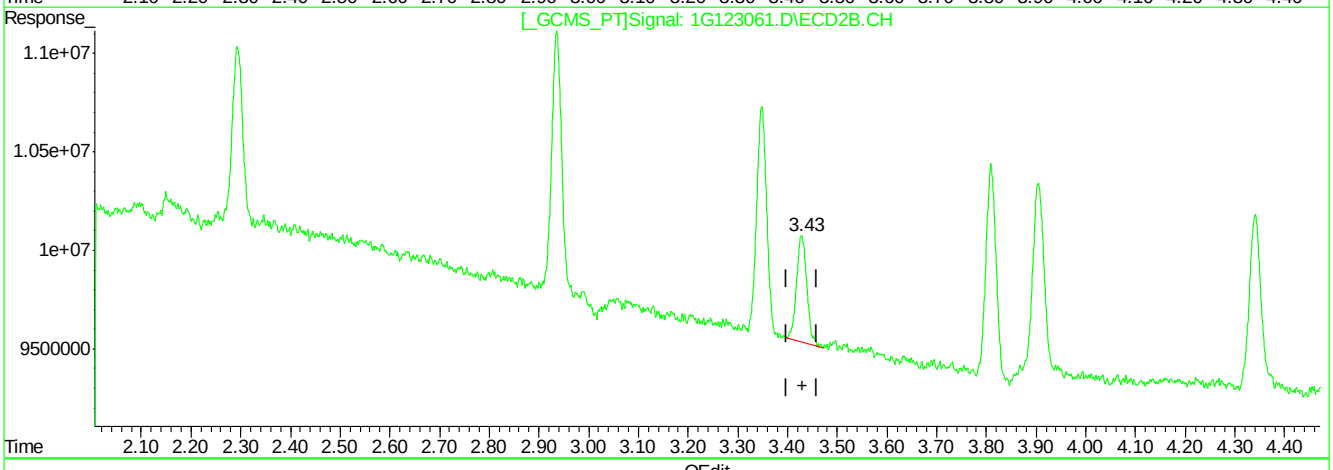
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:28:09 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(6) beta-BHC (B)

2.79min 1.050PPB m

response 1135172

(6) beta-BHC #2 (B)

3.43min 1.022PPB

response 7800568

(+) = Expected Retention Time

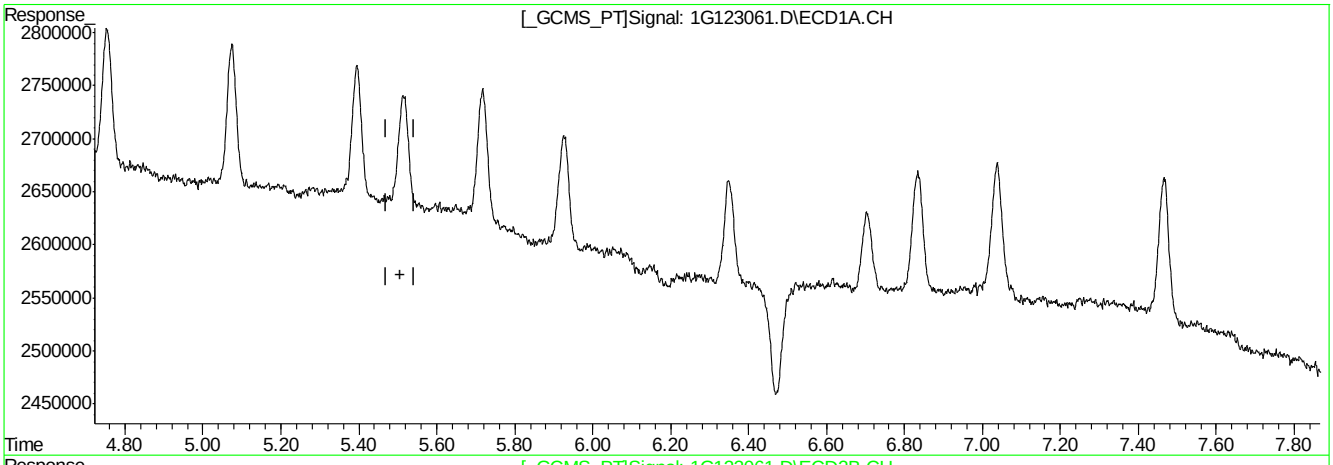
1G123061.D 1PST3988.M Mon May 16 12:28:17 2016 RPT1

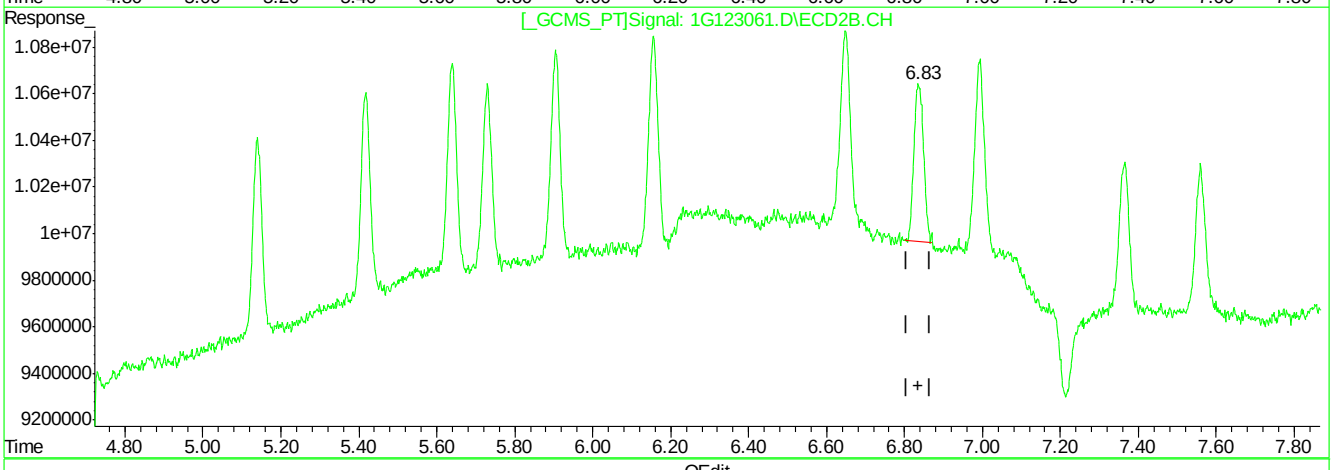
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(16) 4,4'-DDD (A)

0.00min 0.000PPB

response 0

(16) 4,4'-DDD #2 (A)

6.84min 1.008PPB

response 11581992

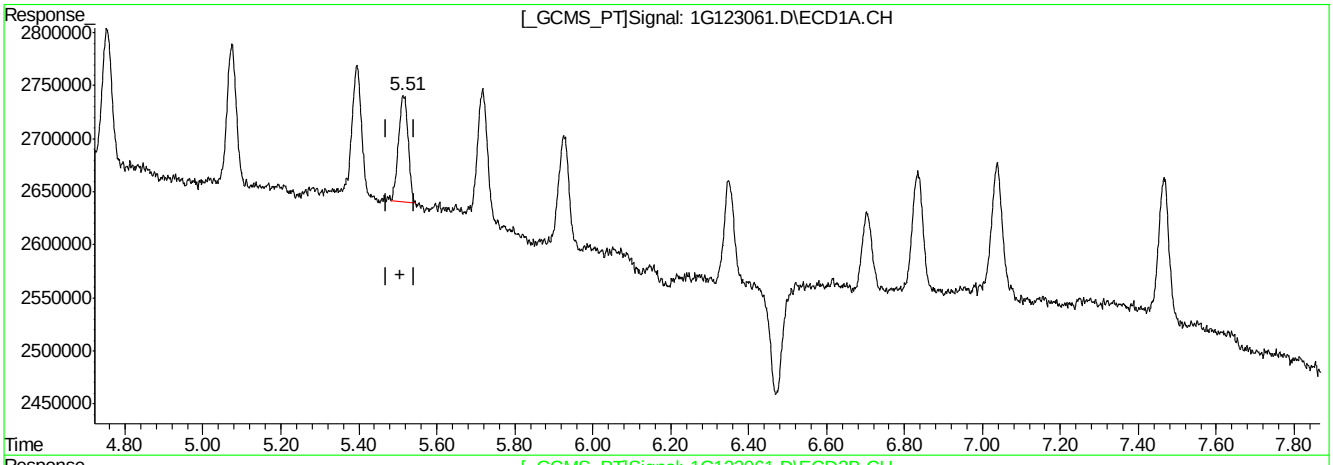
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:28:28 2016 RPT1

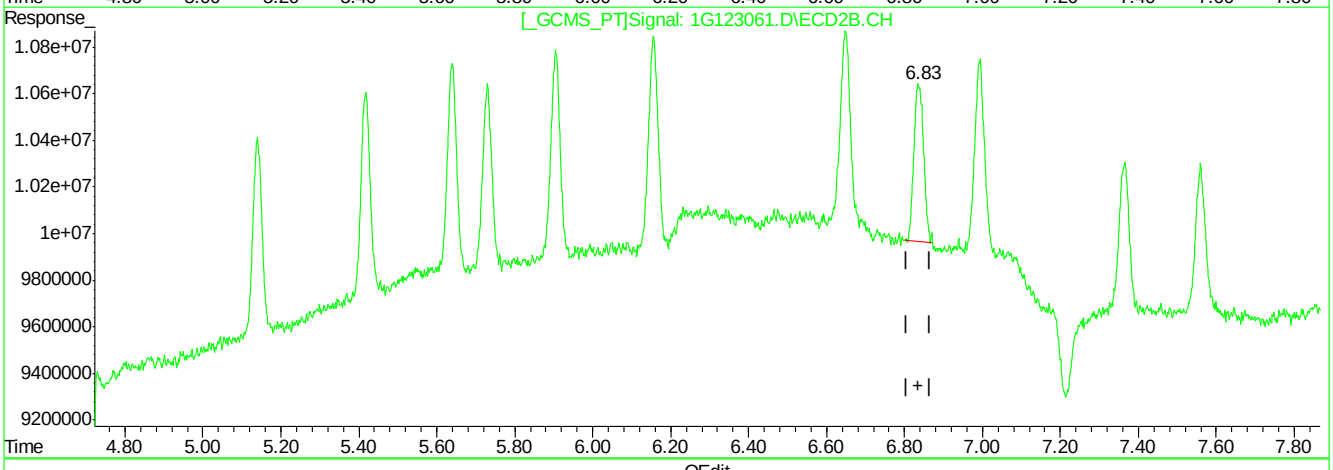
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(16) 4,4'-DDD (A)

5.51min 0.985PPB m

response 1723248

(16) 4,4'-DDD #2 (A)

6.84min 1.008PPB

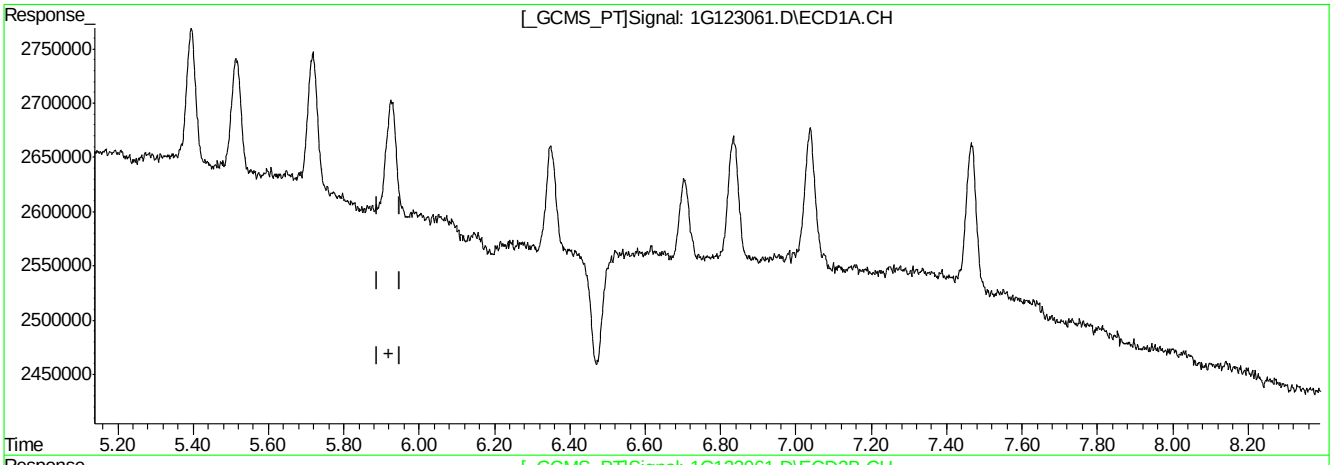
response 11581992

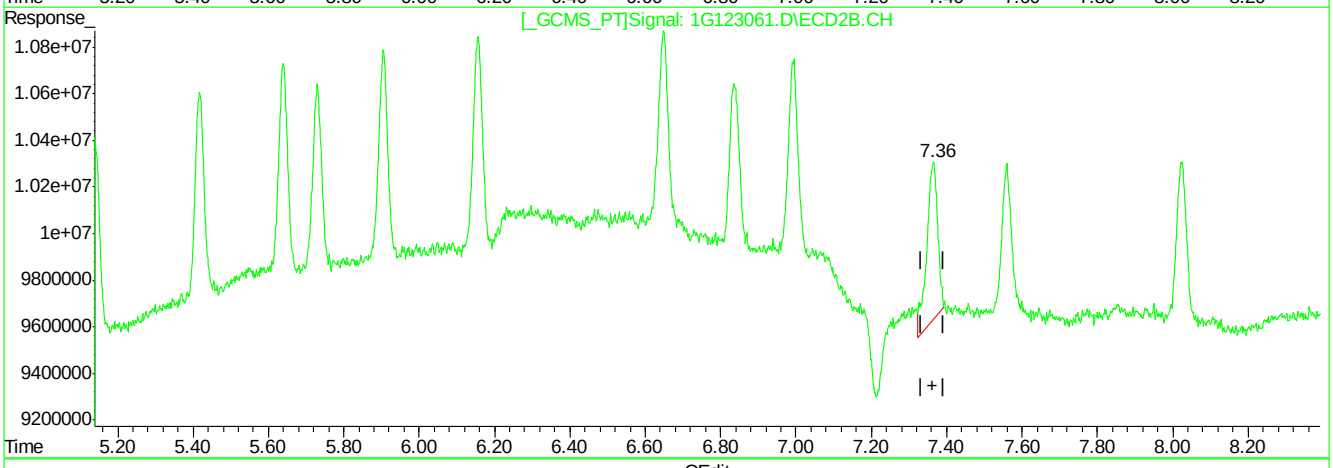
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:28:40 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

0.00min 0.000PPB

response 0

(18) 4,4'-DDT #2 (MA)

7.36min 1.322PPB

response 13552736

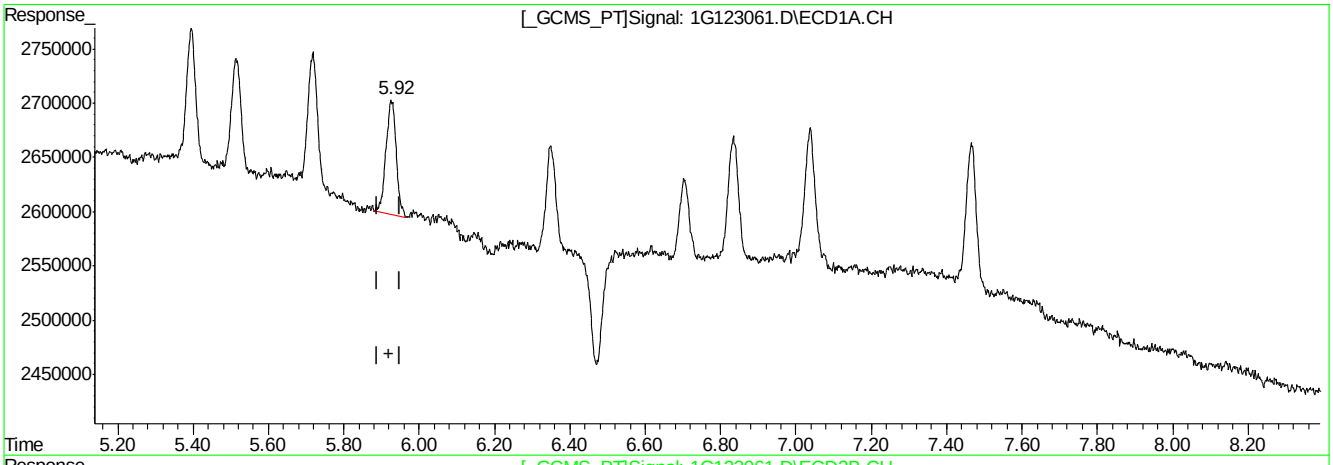
(+) = Expected Retention Time

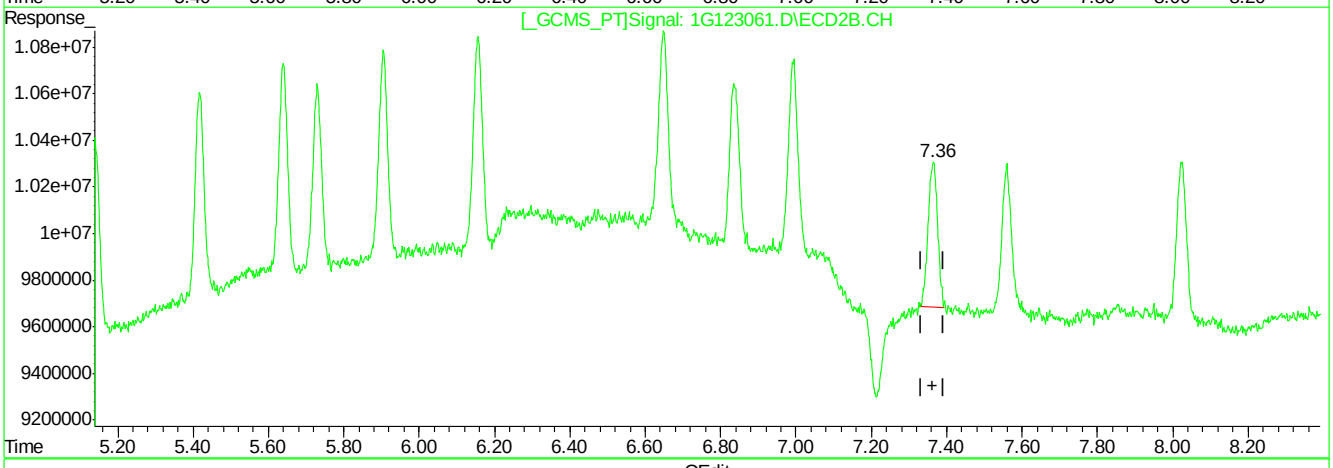
1G123061.D 1PST3988.M Mon May 16 12:28:45 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

5.92min 1.050PPB m

response 1997680

(18) 4,4'-DDT #2 (MA)

7.36min 1.049PPB m

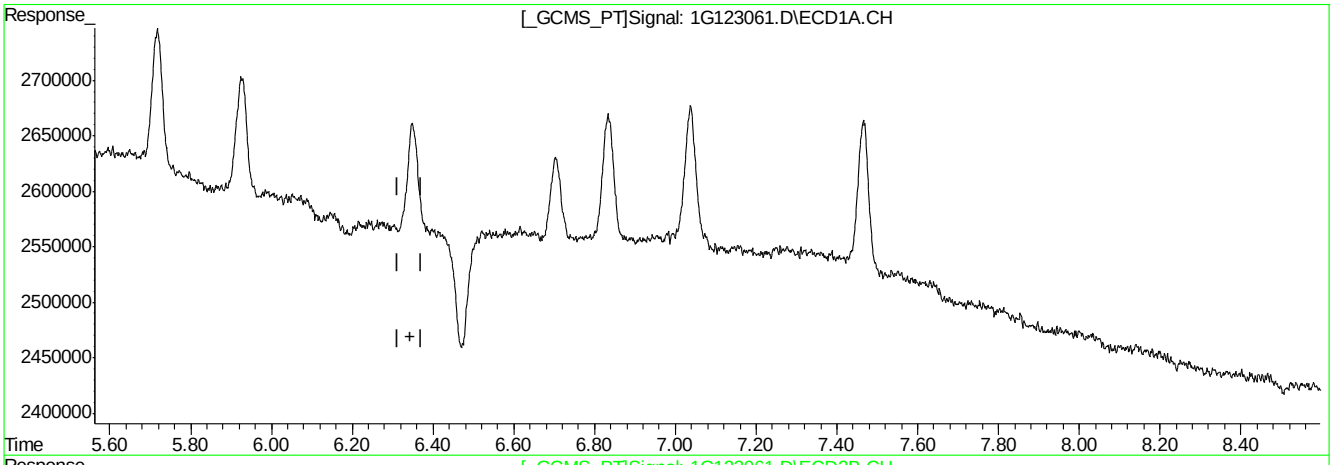
response 10752582

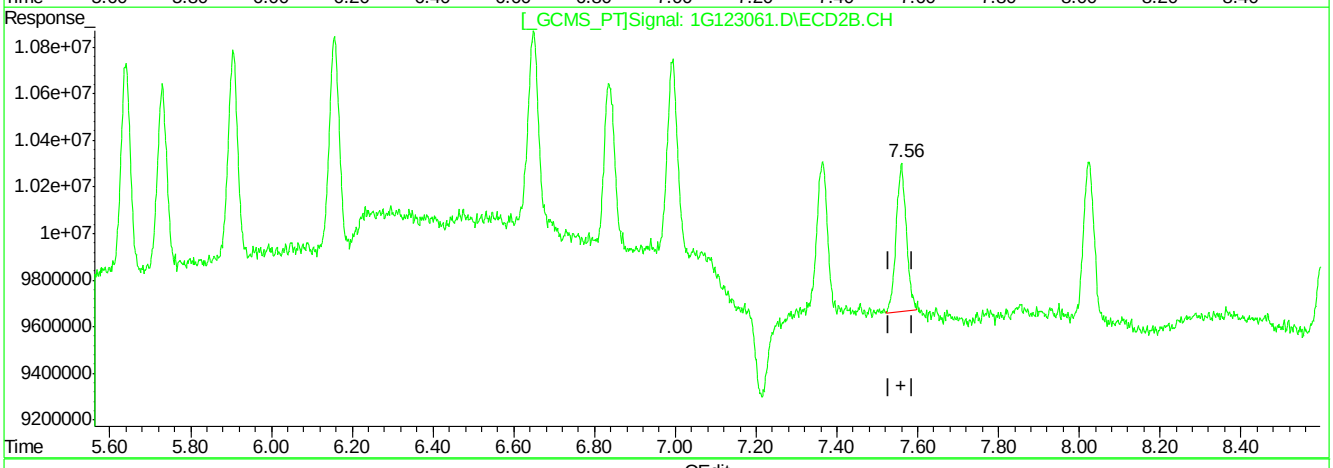
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:29:18 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(19) Endrin Aldehyde (B)

0.00min 0.000PPB

response 0

(19) Endrin Aldehyde #2 (B)

7.56min 1.188PPB

response 11015067

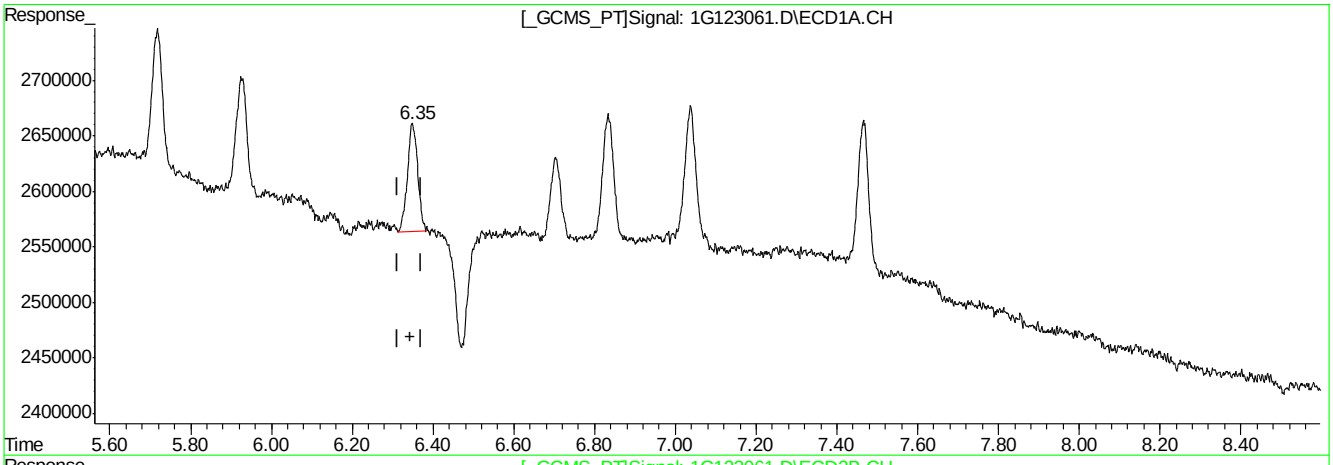
(+) = Expected Retention Time

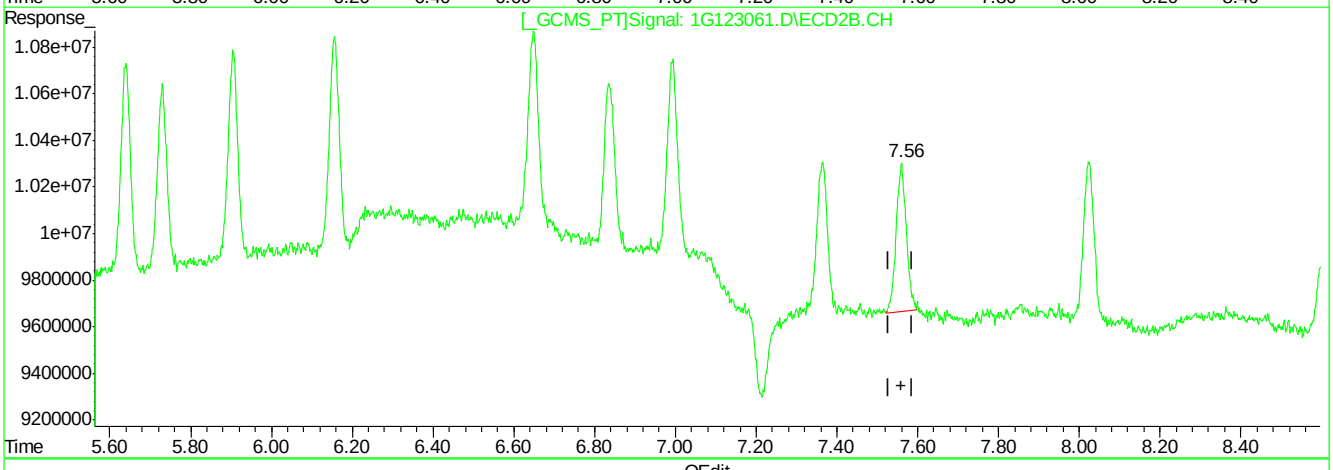
1G123061.D 1PST3988.M Mon May 16 12:29:21 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On : 16 May 2016 10:11 am Operator: thomasl
Sample : ic3988-1 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(19) Endrin Aldehyde (B)

6.35min 1.117PPB m

response 1723536

(19) Endrin Aldehyde #2 (B)

7.56min 1.188PPB

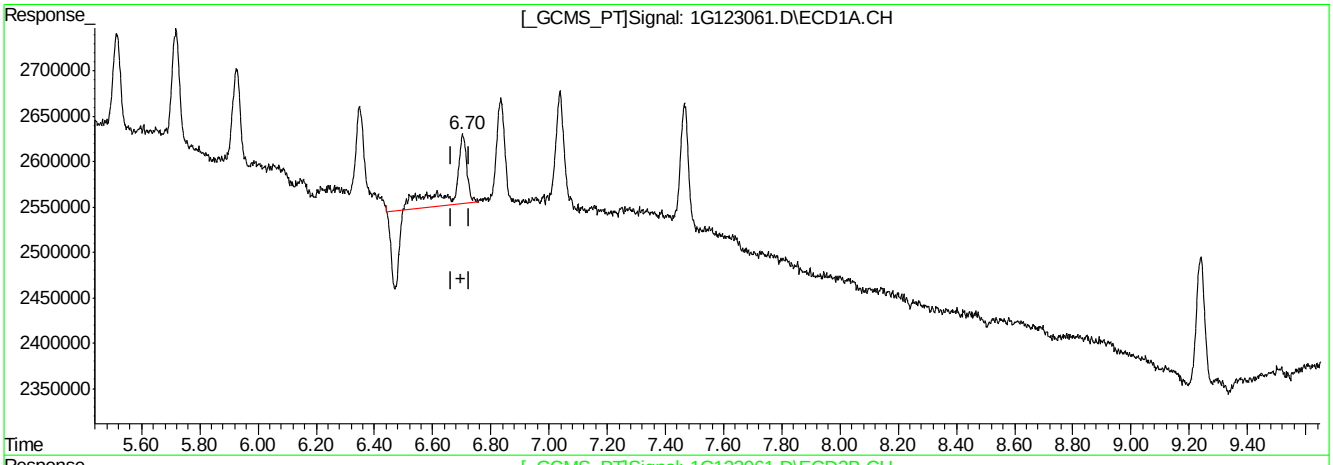
response 11015067

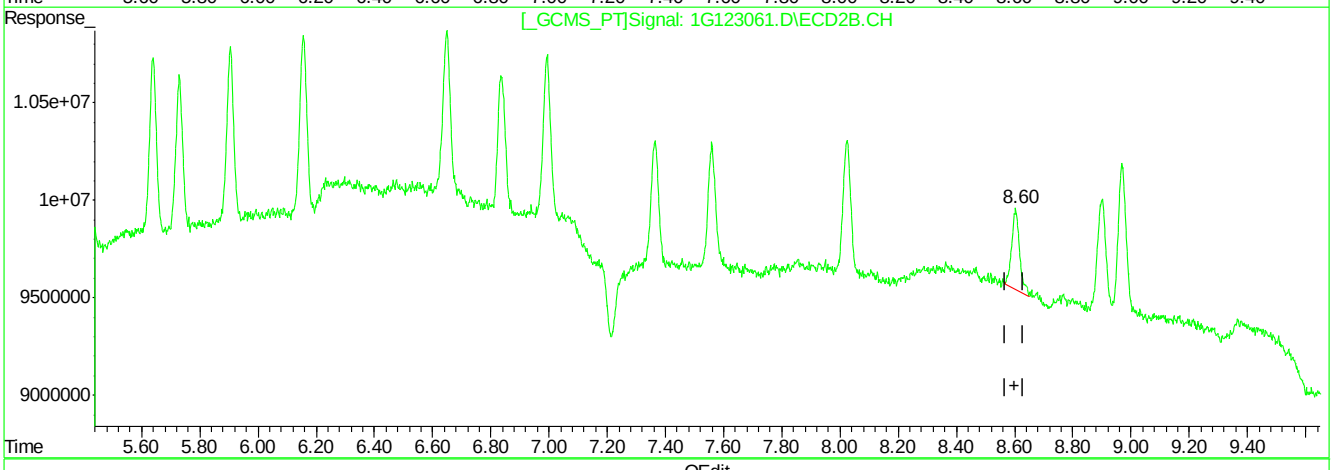
(+) = Expected Retention Time
1G123061.D 1PST3988.M Mon May 16 12:29:30 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 1.199PPB

response 1190508

(21) Methoxychlor #2 (A)

8.60min 1.543PPB

response 7701428

(+) = Expected Retention Time

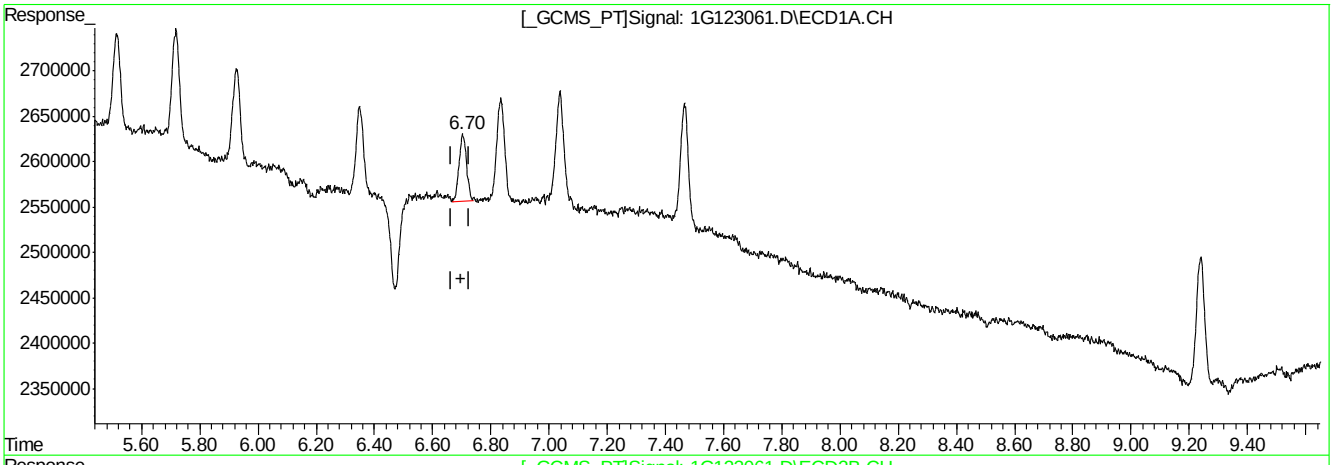
1G123061.D 1PST3988.M Mon May 16 12:29:34 2016 RPT1

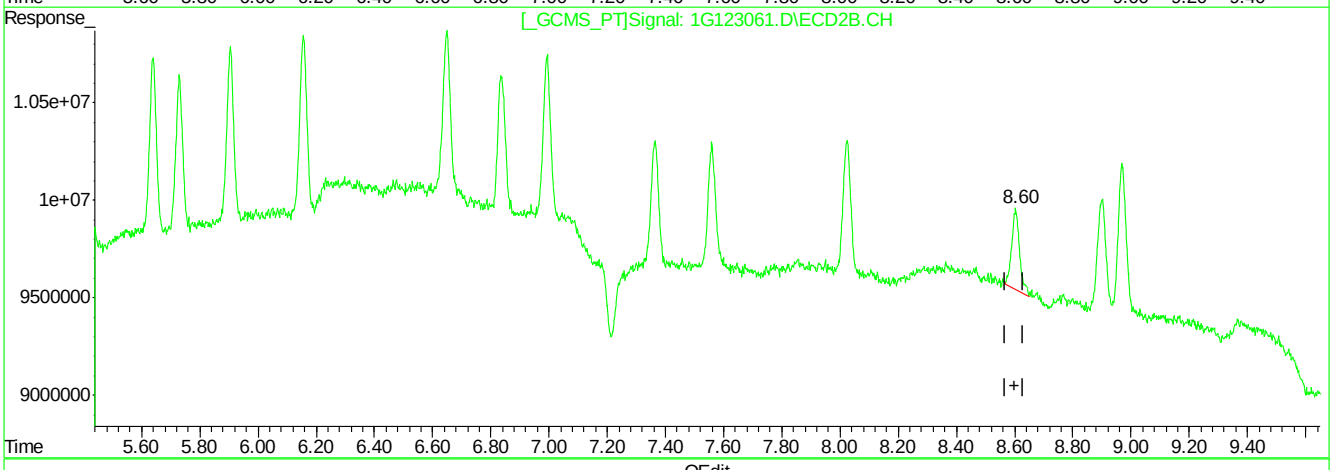
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123061.D\ECD2B.CH
Acq On    : 16 May 2016  10:11 am                    Operator: thomasl
Sample    : ic3988-1                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:27 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 1.342PPB m

response 1332584

(21) Methoxychlor #2 (A)

8.60min 1.543PPB

response 7701428

(+) = Expected Retention Time

1G123061.D 1PST3988.M Mon May 16 12:29:42 2016 RPT1

11.6.1.13

11

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On : 16 May 2016 10:28 am Operator: thomasl
Sample : ic3988-2 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	117.0E6	867.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	3768744	32599980	2.044	2.282
	Spiked Amount 40.000	Range 30 - 150		Recovery	=	5.11%#	5.71%#
24) SA	Decachlorobiphen	9.23	10.68	6069623	23070405	2.332	2.302
	Spiked Amount 40.000			Recovery	=	5.83%	5.76%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	5320474	48837024	1.868	2.301
4) MA	gamma-BHC	2.71	3.35	5018534	44847471	1.886m	2.335
5) MA	Heptachlor	3.20	3.90	5445600	44161193	2.001	2.449
6) B	beta-BHC	2.78	3.43	2769736	21541691	2.145	2.497
7) B	delta-BHC	2.97	3.81	4807183	46590770	1.863	2.480
8) MB	Aldrin	3.53	4.34	4740046	37530736	1.838	2.209
9) B	Heptachlor Epoxi	4.24	5.14	4685771	33501205	1.863	2.206
10) B	gamma-Chlordane	4.39	5.41	5037830	33533081	2.000	2.217
11) B	alpha-Chlordane	4.56	5.64	5027448	34398295	2.030	2.311
12) A	Endosulfan I	4.75	5.73	4802907	30738861	1.953	2.189
13) B	4,4'-DDE	4.68	5.90	5044117	32973270	1.965	2.212
14) MA	Dieldrin	5.07	6.15	4870970	34619553	1.833	2.246
15) MA	Endrin	5.39	6.65	4597980	30785656	1.930	2.593
16) A	4,4'-DDD	5.51	6.84	3866996	26908810	1.852	2.073
17) B	Endosulfan II	5.71	6.99	4782891	32023828	1.940	2.127
18) MA	4,4'-DDT	5.92	7.36	4038475	26426436	1.778	2.282
19) B	Endrin Aldehyde	6.34	7.56	3844888	23619944	2.087	2.253
20) B	Endosulfan Sulfa	7.03	8.02	4353332	27916601	2.218	2.466
21) A	Methoxychlor	6.70	8.60	2673330	14224405	2.255m	2.522m
22)	Mirex	6.83	8.90	4711419	23364971	2.293	2.351
23) B	Endrin Ketone	7.46	8.97	4883106	31085411	2.222	2.465

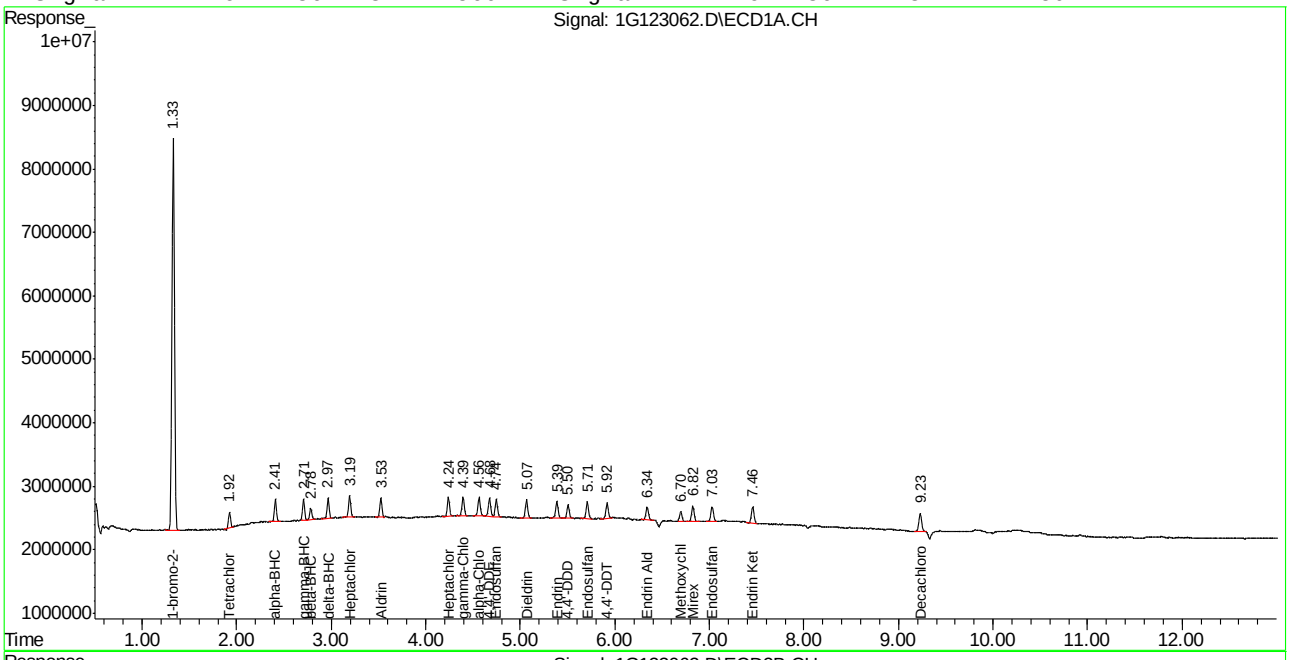
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123062.D 1PST3988.M Mon May 16 13:24:23 2016 RPT1 Page 1

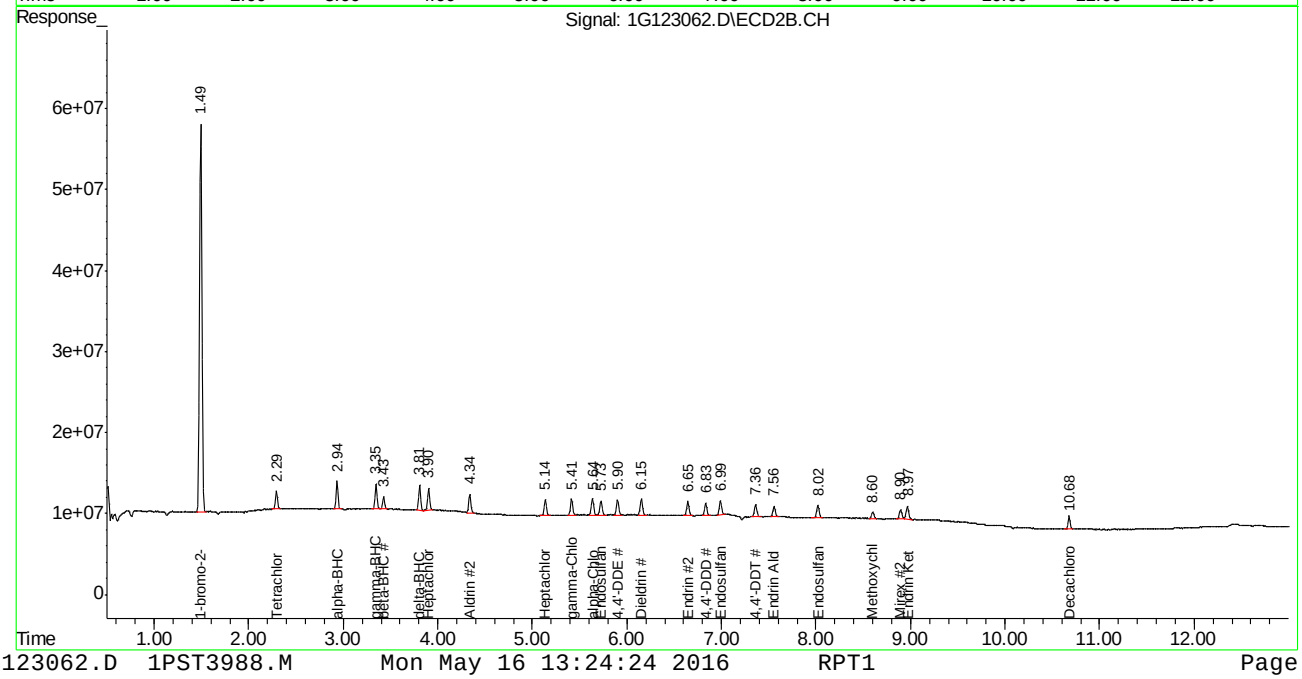
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On : 16 May 2016 10:28 am Operator: thomasl
Sample : ic3988-2 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

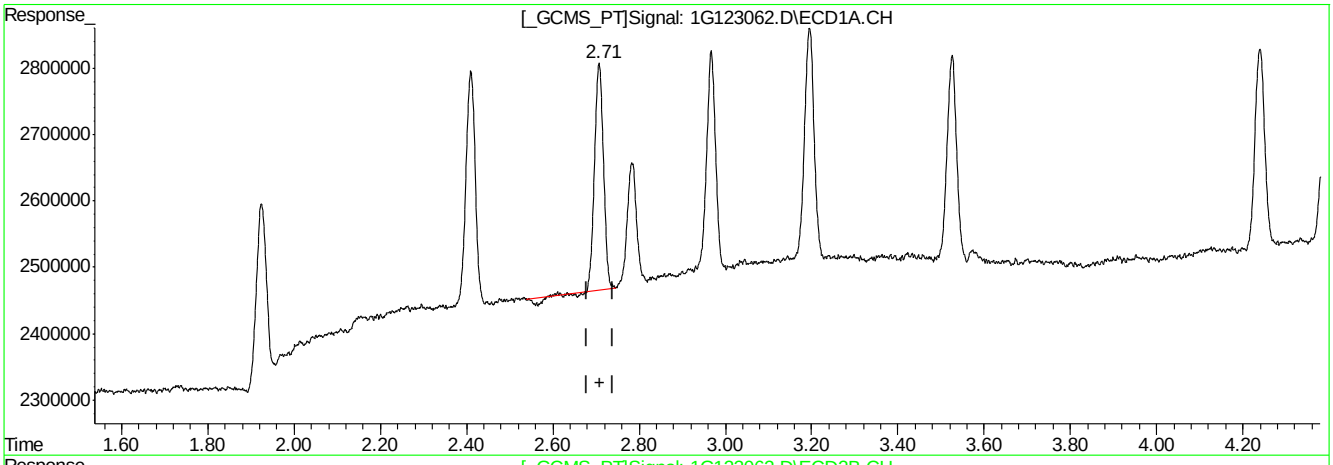
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123062.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 10:28	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

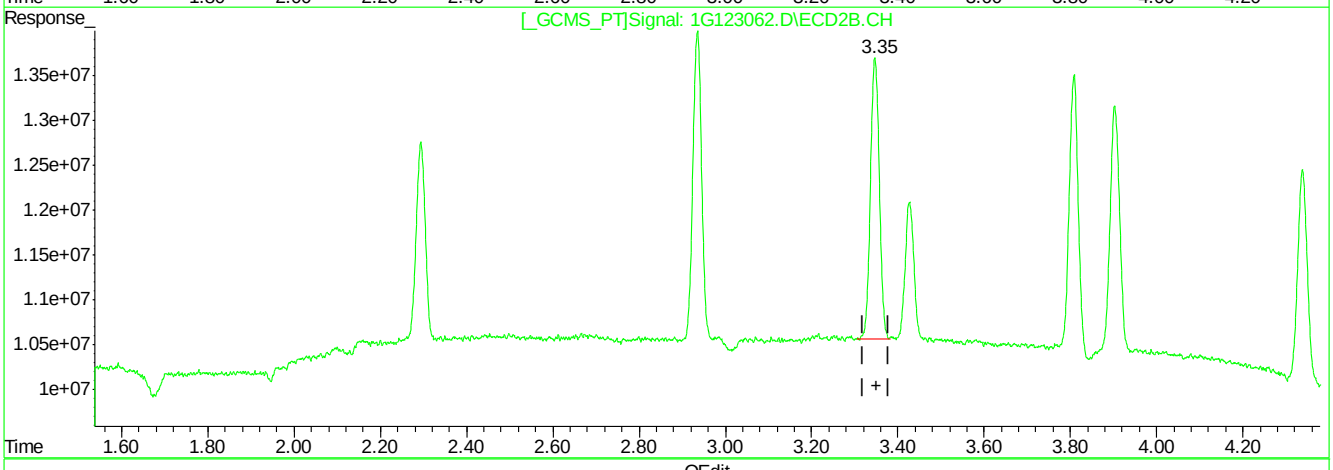
Parameter	CAS	Sig#	R.T. (min.)	Reason
gamma-BHC (Lindane)	58-89-9	1	2.71	Poor instrument integration
Methoxychlor	72-43-5	1	6.70	Poor instrument integration
Methoxychlor	72-43-5	2	8.60	Poor instrument integration

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.71min 1.804PPB

response 4799798

(4) gamma-BHC #2 (MA)

3.35min 2.335PPB

response 44847471

(+) = Expected Retention Time

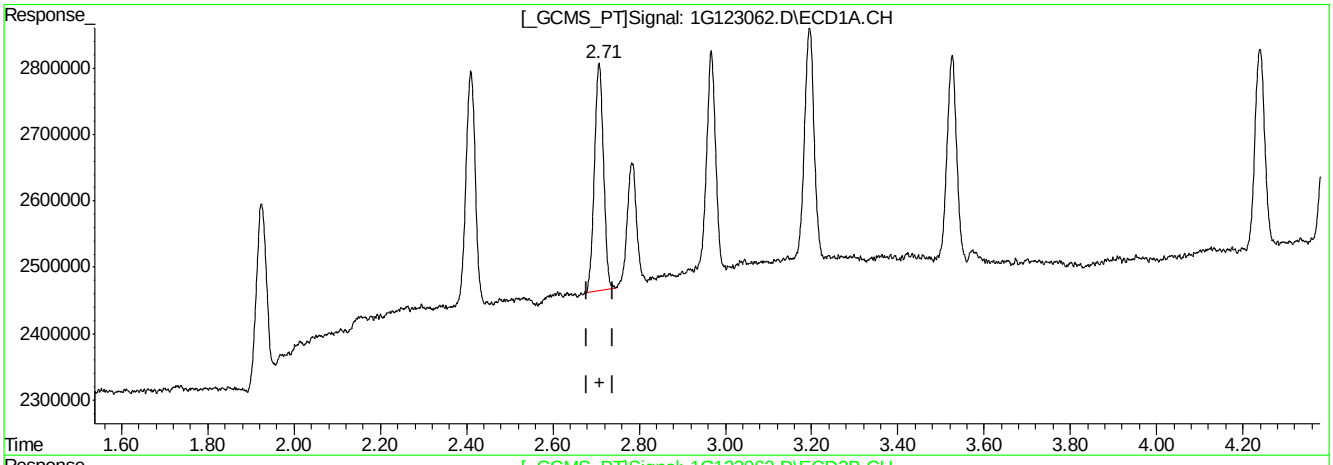
1G123062.D 1PST3988.M Mon May 16 12:13:40 2016 RPT1

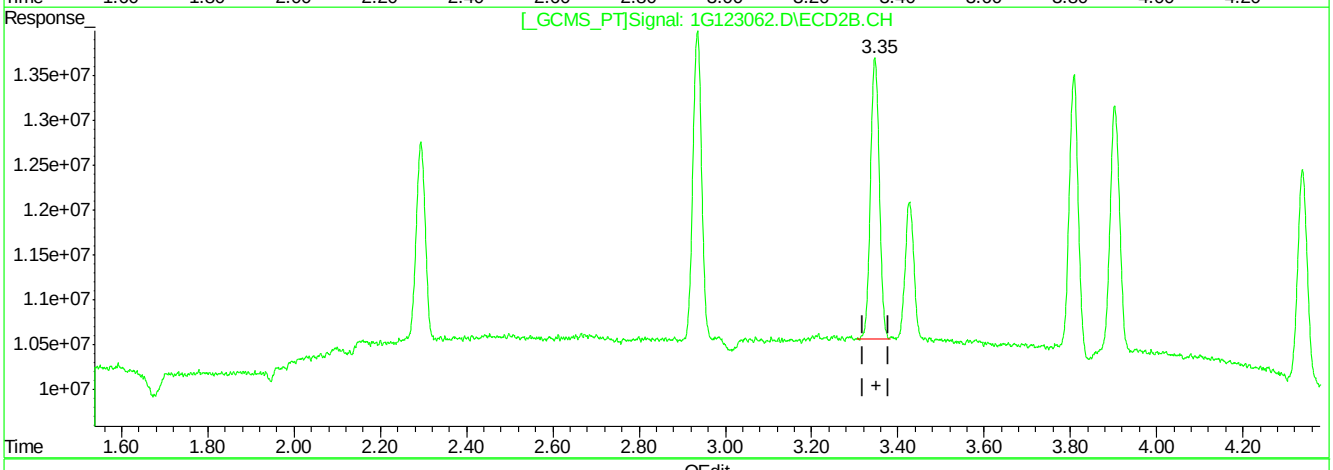
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(4) gamma-BHC (MA)

2.71min 1.886PPB m

response 5018534

(4) gamma-BHC #2 (MA)

3.35min 2.335PPB

response 44847471

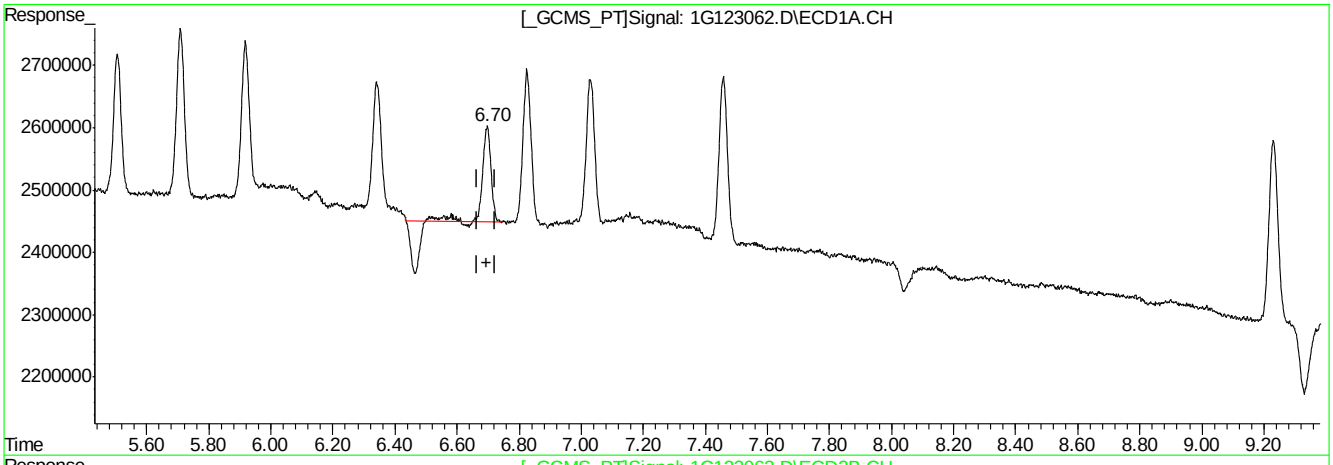
(+) = Expected Retention Time

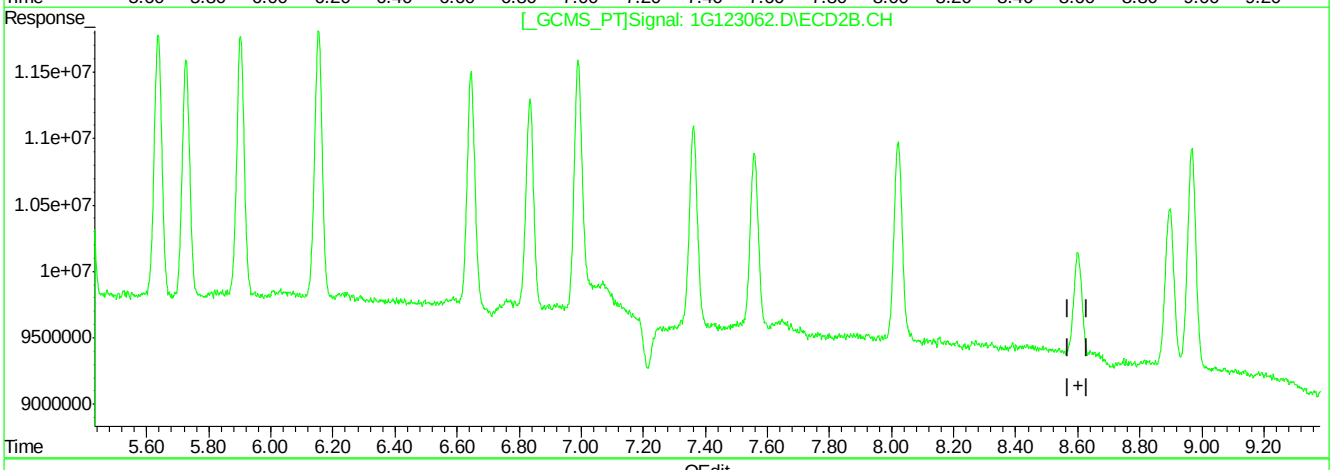
1G123062.D 1PST3988.M Mon May 16 12:13:48 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On    : 16 May 2016  10:28 am                    Operator: thomasl
Sample    : ic3988-2                                 Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(21) Methoxychlor (A)

6.70min 1.395PPB

response 1654441

(21) Methoxychlor #2 (A)

0.00min 0.000PPB

response 0

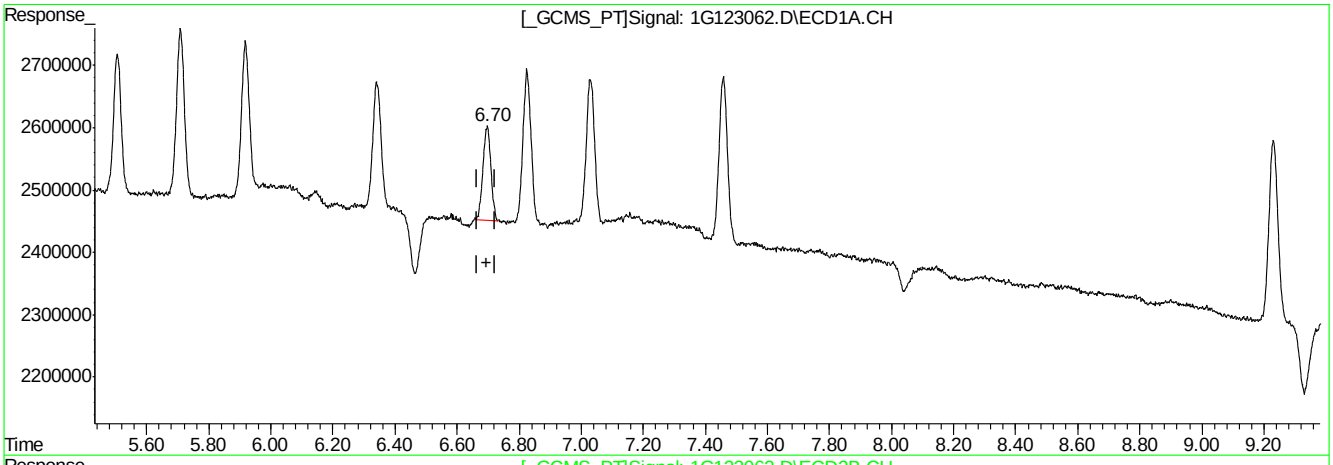
(+) = Expected Retention Time

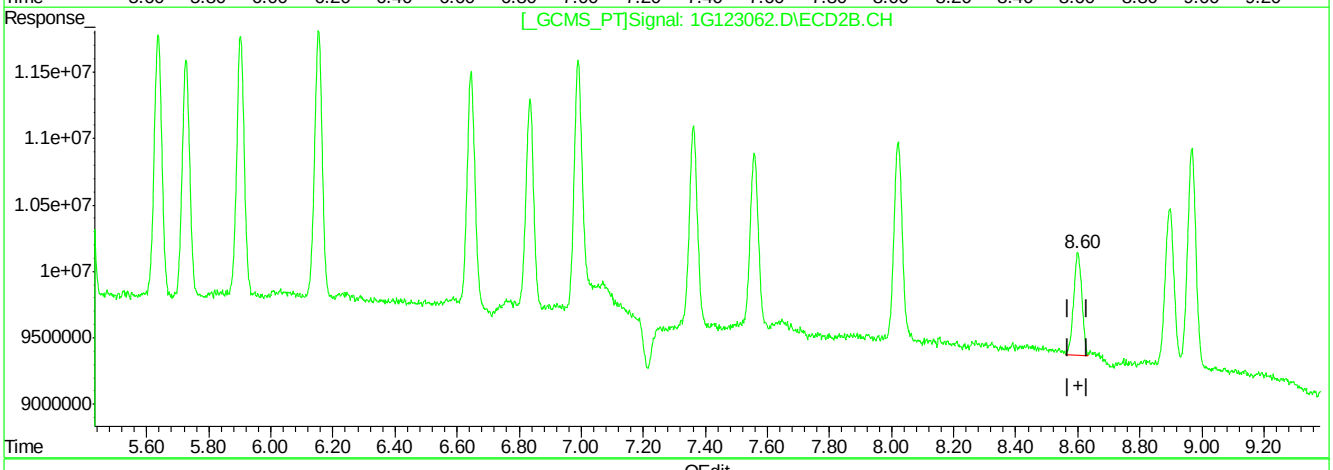
1G123062.D 1PST3988.M Mon May 16 12:14:00 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD1A.CH Vial: 7
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123062.D\ECD2B.CH
Acq On : 16 May 2016 10:28 am Operator: thomasl
Sample : ic3988-2 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:13 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(21) Methoxychlor (A)

6.70min 2.255PPB m

response 2673330

(21) Methoxychlor #2 (A)

8.60min 2.522PPB m

response 14224405

(+) = Expected Retention Time

1G123062.D 1PST3988.M Mon May 16 12:14:24 2016 RPT1

11.6.2.5 11

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD2B.CH
Acq On : 16 May 2016 10:46 am Operator: thomasl
Sample : ic3988-5 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:21 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	113.6E6	855.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	10136401	81388560	4.936	5.348
Spiked Amount	40.000	Range	30 - 150	Recovery	=	12.34%#	13.37%#
24) SA	Decachlorobiphen	9.23	10.68	14488084	57537937	5.189	5.382
Spiked Amount	40.000			Recovery	=	12.97%	13.46%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	13729734	119.5E6	4.674	5.244
4) MA	gamma-BHC	2.71	3.35	13145392	111.6E6	4.789	5.413
5) MA	Heptachlor	3.20	3.90	13674867	105.3E6	4.894	5.470
6) B	beta-BHC	2.78	3.43	6640000	54109928	5.055	5.723
7) B	delta-BHC	2.97	3.81	12394888	110.1E6	4.606	5.338
8) MB	Aldrin	3.53	4.34	12380831	93164632	4.862	5.289
9) B	Heptachlor Epoxi	4.24	5.14	12130184	84083910	4.834	5.336
10) B	gamma-Chlordane	4.40	5.42	12491341	84035576	4.836	5.221
11) B	alpha-Chlordane	4.56	5.64	12579719	84688404	4.911	5.313
12) A	Endosulfan I	4.75	5.73	12108270	78325452	4.913	5.328
13) B	4,4'-DDE	4.67	5.90	12623806	82683735	4.888	5.229
14) MA	Dieldrin	5.07	6.15	12336127	85228777	4.807	5.164
15) MA	Endrin	5.39	6.65	11285271	81139456	4.851	5.585
16) A	4,4'-DDD	5.51	6.83	9740947	71643432	4.802	5.503
17) B	Endosulfan II	5.71	6.99	12115481	78275160	4.970	5.264
18) MA	4,4'-DDT	5.92	7.36	10495672	66836532	4.750	5.231
19) B	Endrin Aldehyde	6.34	7.56	9494629	59981905	4.931	5.257
20) B	Endosulfan Sulfa	7.03	8.02	11187191	69329572	4.780	5.328
21) A	Methoxychlor	6.70	8.60	6739268	34874789	5.150	5.083
22)	Mirex	6.83	8.90	11682729	58478048	5.247	5.379
23) B	Endrin Ketone	7.46	8.97	12910199	77332804	4.875	5.302

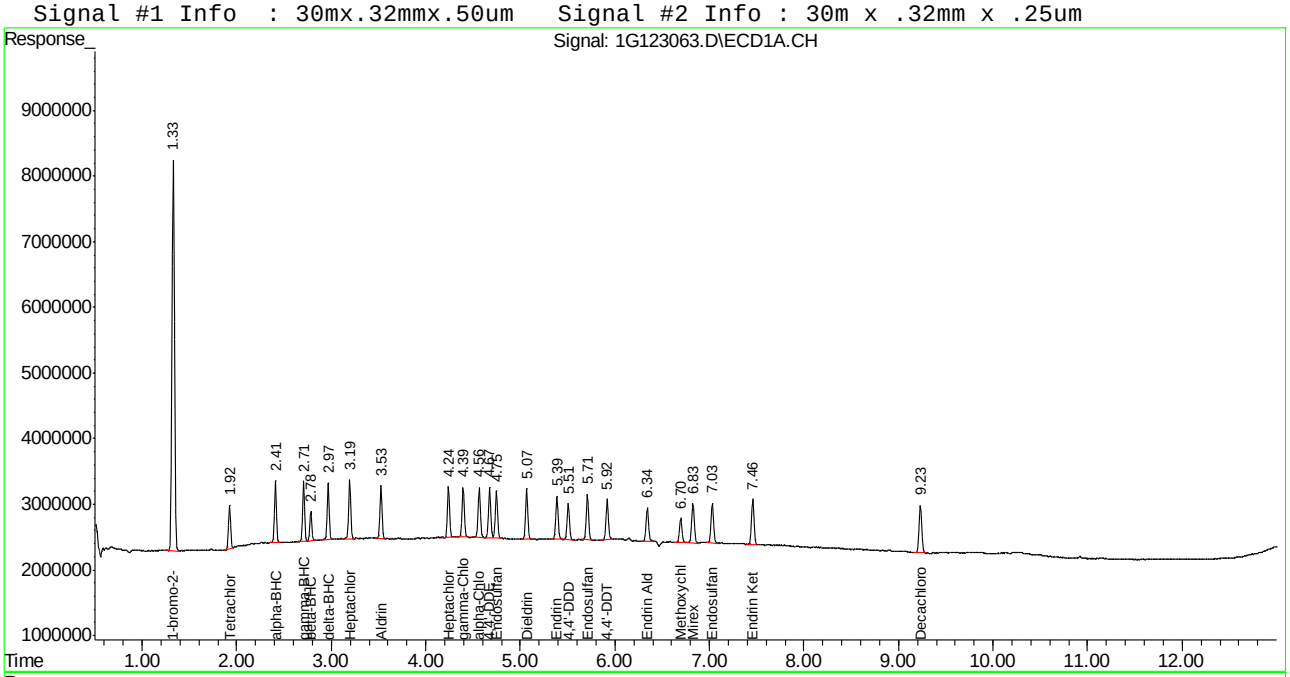
(f)=RT Delta > 1/2 Window (m)=manual int.

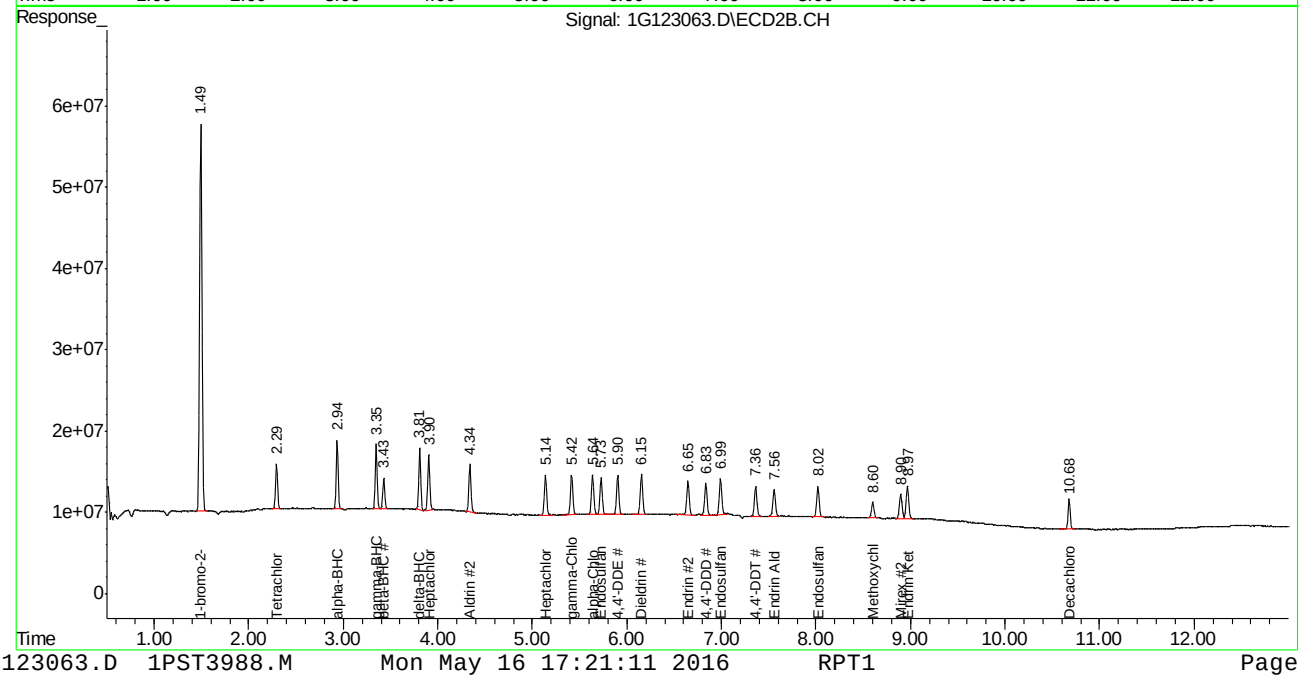
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123063.D\ECD2B.CH
Acq On : 16 May 2016 10:46 am Operator: thomasl
Sample : ic3988-5 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:21 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	116.2E6	865.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	20750289	161.5E6	11.337	11.324
Spiked Amount	40.000	Range	30 - 150	Recovery	=	28.34%#	28.31%#
24) SA	Decachlorobiphen	9.23	10.68	28580121	110.5E6	11.061	11.042
Spiked Amount	40.000			Recovery	=	27.65%	27.61%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	27666553	236.8E6	9.785	11.172
4) MA	gamma-BHC	2.71	3.35	26439385	213.7E6	10.012	11.144
5) MA	Heptachlor	3.20	3.90	26685288	200.9E6	9.879	11.159
6) B	beta-BHC	2.78	3.43	12999848	99651131	10.141	11.571
7) B	delta-BHC	2.97	3.81	25401856	210.2E6	9.915	11.208
8) MB	Aldrin	3.53	4.34	24498041	179.8E6	9.569	10.600
9) B	Heptachlor Epoxi	4.24	5.14	24743436	159.8E6	9.911	10.536
10) B	gamma-Chlordane	4.40	5.41	24283346	160.9E6	9.712	10.656
11) B	alpha-Chlordane	4.57	5.64	24561033	160.1E6	9.992	10.773
12) A	Endosulfan I	4.75	5.73	23759924	152.6E6	9.734	10.882
13) B	4,4'-DDE	4.68	5.90	24597236	159.1E6	9.654	10.691
14) MA	Dieldrin	5.07	6.15	24330429	163.9E6	9.221	10.647
15) MA	Endrin	5.39	6.65	22119397	147.4E6	9.355	12.432
16) A	4,4'-DDD	5.51	6.83	19255220	131.2E6	9.288	10.124
17) B	Endosulfan II	5.71	6.99	23501982	148.7E6	9.600	9.892
18) MA	4,4'-DDT	5.92	7.36	21117760	127.9E6	9.367	11.056m
19) B	Endrin Aldehyde	6.34	7.56	18612425	115.5E6	10.178	11.037
20) B	Endosulfan Sulfa	7.03	8.02	22259824	132.5E6	11.425	11.723
21) A	Methoxychlor	6.70	8.60	13073987	68225543	11.107	12.114
22)	Mirex	6.82	8.89	22387131	112.7E6	10.976	11.356
23) B	Endrin Ketone	7.46	8.97	25533264	148.8E6	11.705	11.820

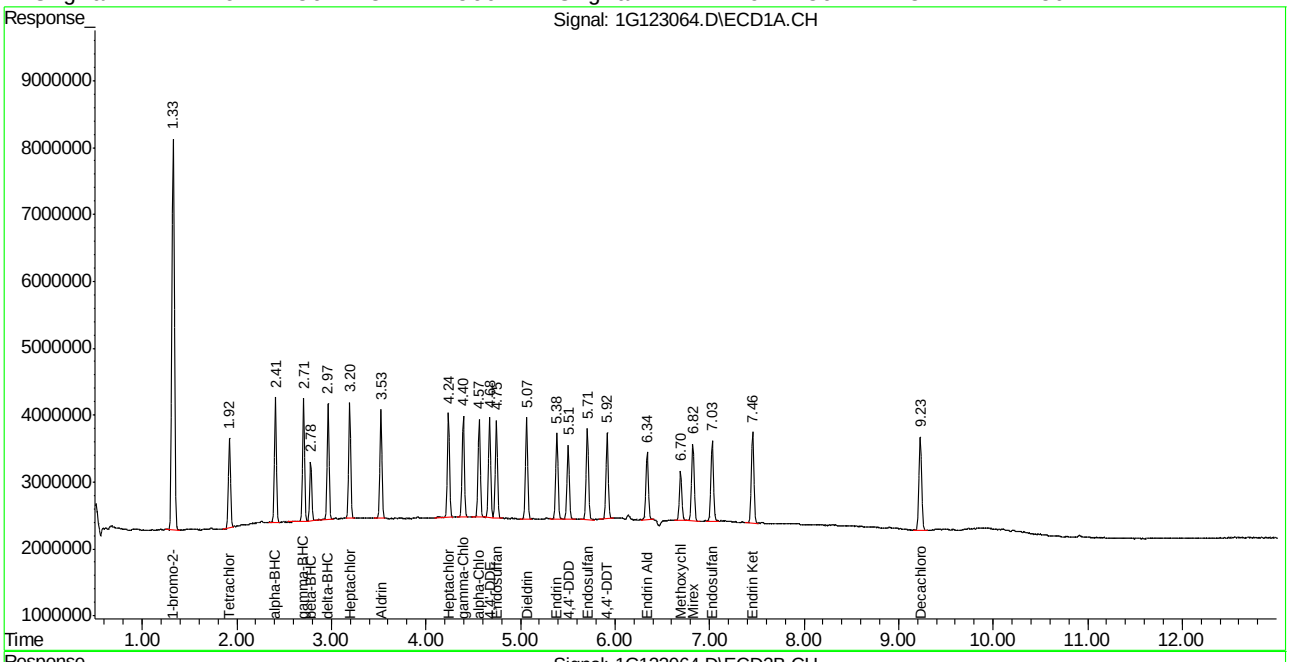
(f)=RT Delta > 1/2 Window (m)=manual int.

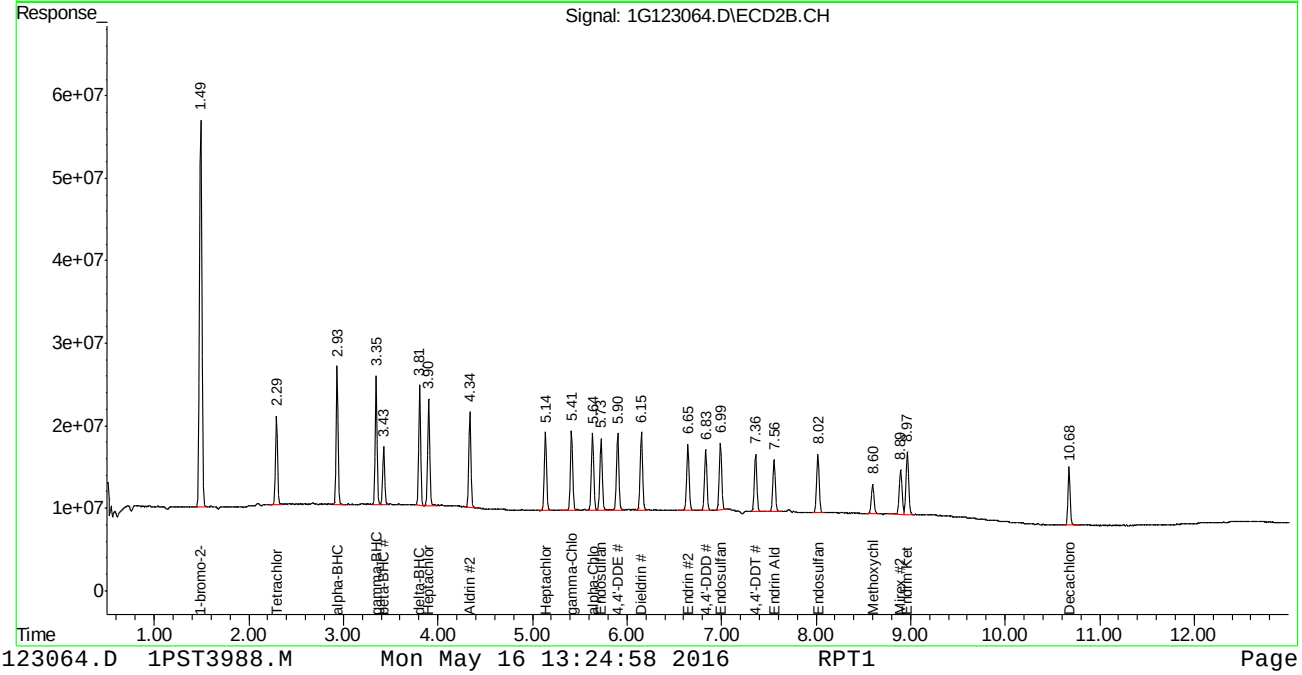
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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





1G123064.D 1PST3988.M Mon May 16 13:24:58 2016 RPT1 Page 2

Manual Integration Approval Summary

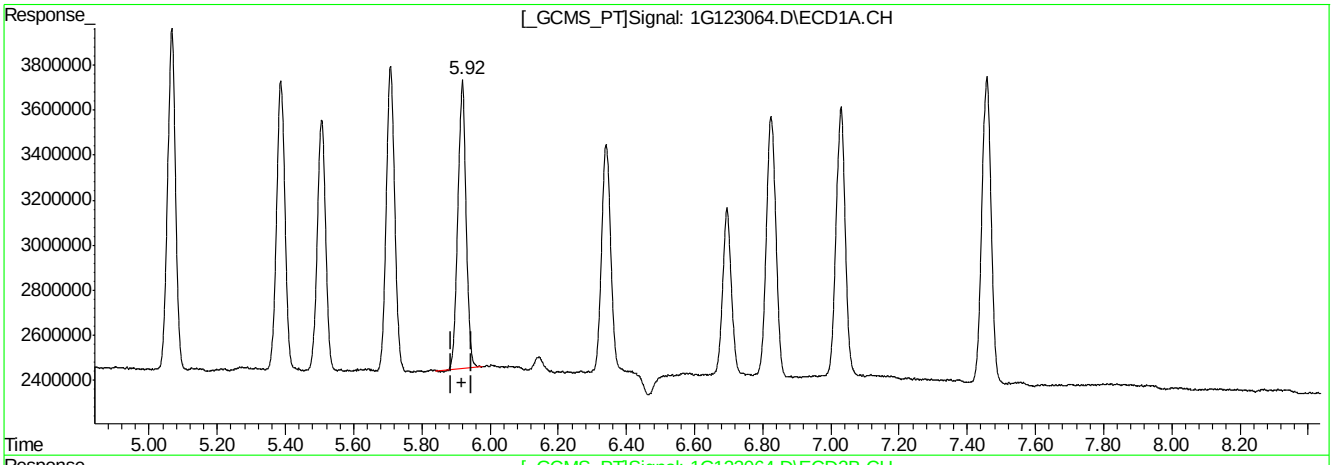
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123064.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 11:03	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

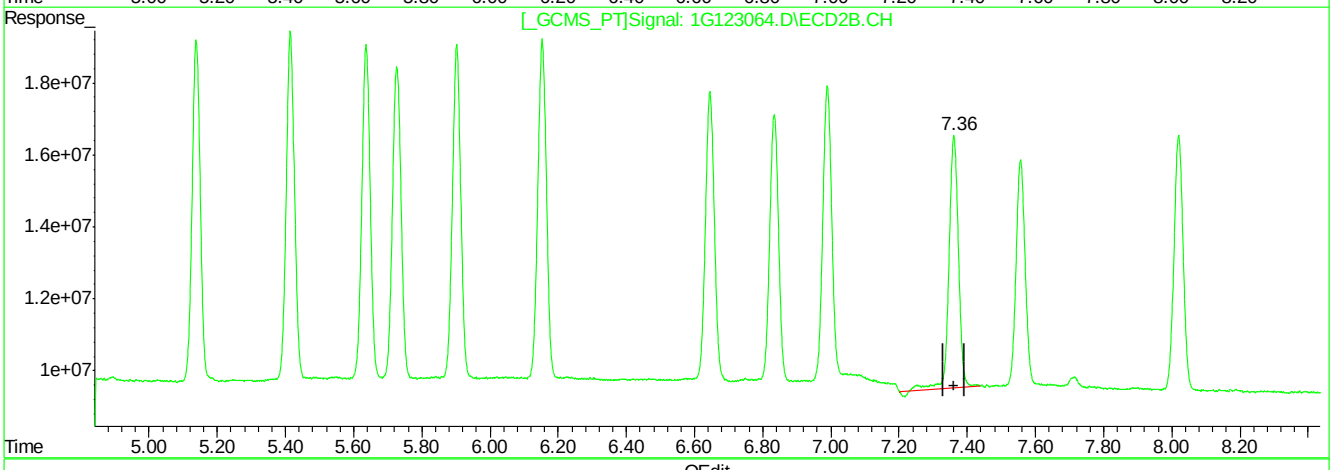
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	2	7.36	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:10 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

5.92min 9.367PPB

response 21117760

(18) 4,4'-DDT #2 (MA)

7.36min 11.861PPB

response 137166036

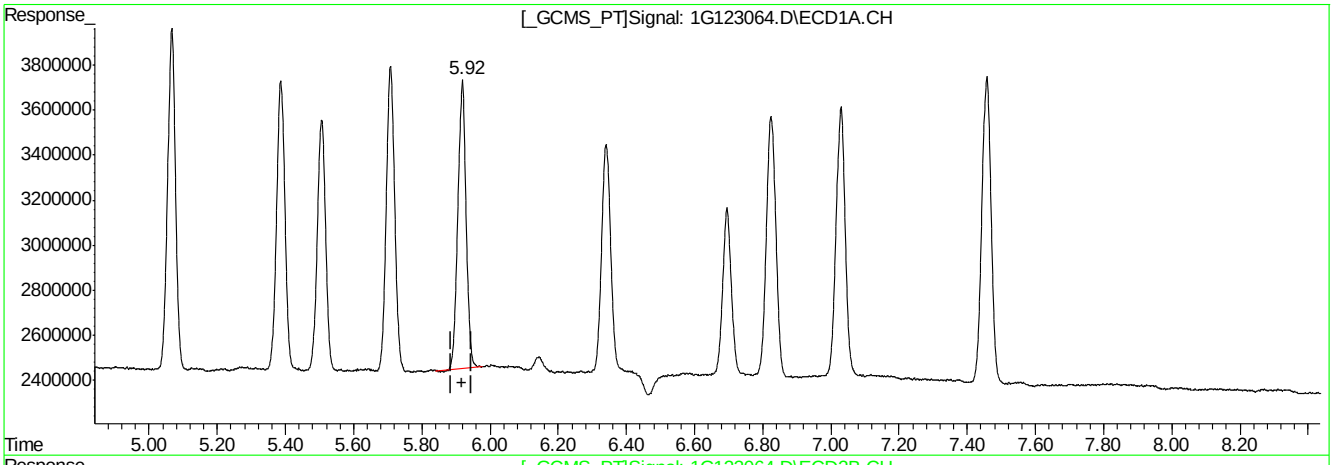
(+) = Expected Retention Time

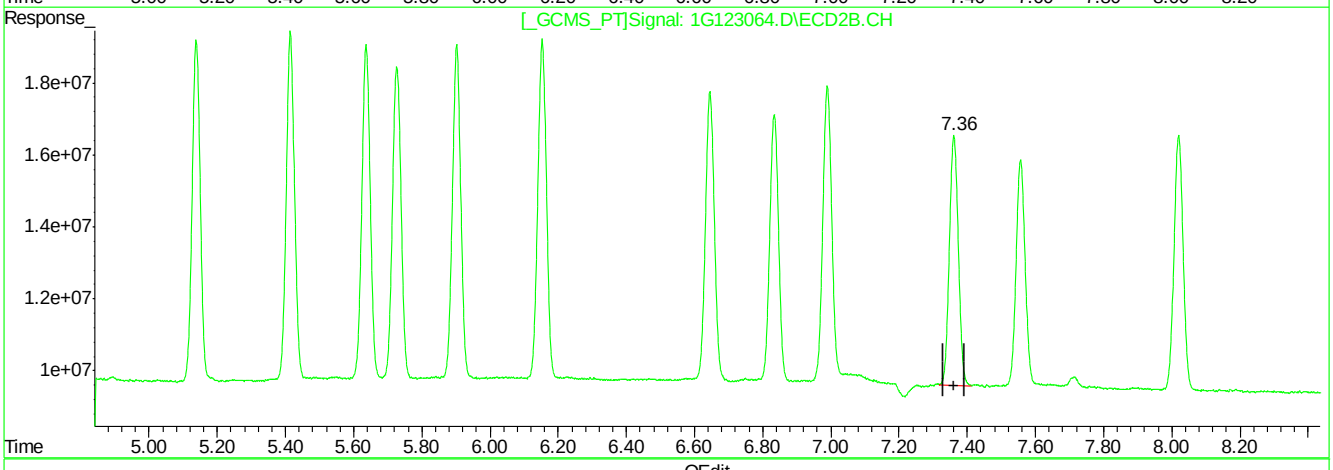
1G123064.D 1PST3988.M Mon May 16 12:10:34 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD1A.CH Vial: 9
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123064.D\ECD2B.CH
Acq On : 16 May 2016 11:03 am Operator: thomasl
Sample : ic3988-10 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 12:10 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

5.92min 9.367PPB

response 21117760

(18) 4,4'-DDT #2 (MA)

7.36min 11.056PPB m

response 127854903

(+) = Expected Retention Time

1G123064.D 1PST3988.M Mon May 16 12:10:48 2016 RPT1

11.6.4.3 11

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD2B.CH
Acq On : 16 May 2016 11:21 am Operator: thomasl
Sample : icc3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	120.1E6	887.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.30	56001112	401.1E6	29.592	27.416
Spiked Amount	40.000	Range	30 - 150	Recovery	=	73.98%	68.54%
24) SA	Decachlorobiphen	9.23	10.68	72131465	269.7E6	27.000	26.273
Spiked Amount	40.000			Recovery	=	67.50%	65.68%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	77477232	590.0E6	26.502	27.144
4) MA	gamma-BHC	2.71	3.35	73074919	538.3E6	26.763	27.368
5) MA	Heptachlor	3.20	3.90	72196368	488.8E6	25.851	26.479
6) B	beta-BHC	2.78	3.43	33996166	246.9E6	25.651	27.951
7) B	delta-BHC	2.97	3.81	70029708	534.0E6	26.437	27.758
8) MB	Aldrin	3.53	4.34	67086616	462.1E6	25.345	26.565
9) B	Heptachlor Epoxi	4.24	5.14	65839458	407.4E6	25.506	26.192
10) B	gamma-Chlordane	4.40	5.42	65644651	417.8E6	25.392	26.971
11) B	alpha-Chlordane	4.57	5.64	65894613	408.3E6	25.928	26.785
12) A	Endosulfan I	4.75	5.73	63722290	393.7E6	25.250	27.380
13) B	4,4'-DDE	4.68	5.90	66665136	410.5E6	25.307	26.890
14) MA	Dieldrin	5.07	6.15	66773431	427.0E6	24.476	27.049
15) MA	Endrin	5.39	6.65	59199626	367.8E6	24.216	30.253
16) A	4,4'-DDD	5.51	6.83	52918646	342.4E6	24.690	25.764
17) B	Endosulfan II	5.71	6.99	63186885	378.6E6	24.965	24.557
18) MA	4,4'-DDT	5.92	7.36	57322192	339.4E6	24.591	28.615
19) B	Endrin Aldehyde	6.34	7.56	48971969	293.6E6	25.902	27.348
20) B	Endosulfan Sulfa	7.03	8.02	59336726	338.5E6	29.456	29.200
21) A	Methoxychlor	6.70	8.60	34211597	170.1E6	28.111	29.441
22)	Mirex	6.82	8.90	57582116	271.3E6	27.304	26.659
23) B	Endrin Ketone	7.46	8.97	69042755	375.5E6	30.612	29.080

(f)=RT Delta > 1/2 Window (m)=manual int.

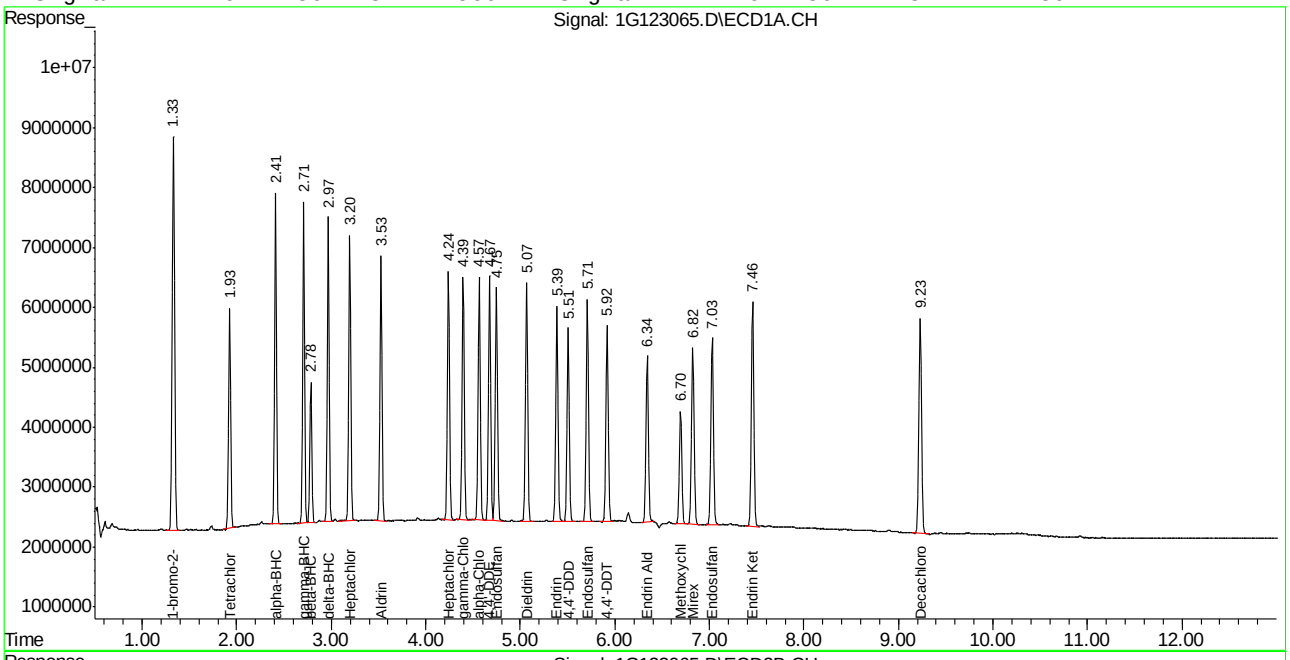
SGS ACCUTEST JC21229

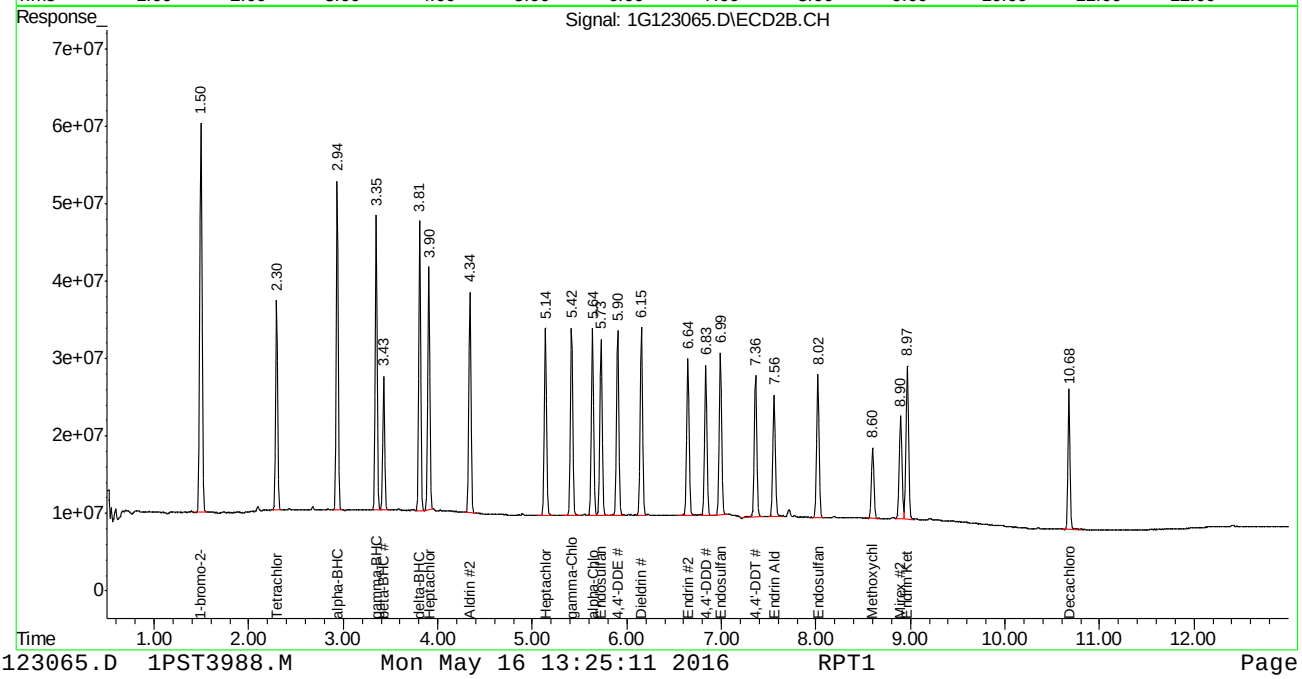
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD1A.CH Vial: 10
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123065.D\ECD2B.CH
Acq On : 16 May 2016 11:21 am Operator: thomasl
Sample : icc3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G3988\1G123066.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD2B.CH
Acq On : 16 May 2016 11:38 am Operator: thomasl
Sample : ic3988-50 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	120.8E6	899.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.30	115.7E6	785.5E6	60.809	53.005
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	152.02%#	132.51%
24) SA	Decachlorobiphen	9.23	10.68	142.6E6	522.4E6	53.051	50.240
	Spiked Amount 40.000			Recovery	=	132.63%	125.60%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	169.9E6	1192.7E6	57.785	54.166
4) MA	gamma-BHC	2.71	3.35	158.0E6	1075.0E6	57.533	53.959
5) MA	Heptachlor	3.20	3.90	152.7E6	983.9E6	54.351	52.609
6) B	beta-BHC	2.78	3.43	70021076	472.4E6	52.527	52.797
7) B	delta-BHC	2.97	3.81	154.5E6	1079.6E6	57.976	55.398
8) MB	Aldrin	3.53	4.34	143.3E6	926.1E6	53.808	52.561
9) B	Heptachlor Epoxi	4.24	5.14	137.7E6	807.0E6	53.041	51.220
10) B	gamma-Chlordane	4.40	5.42	138.4E6	824.0E6	53.236	52.515
11) B	alpha-Chlordane	4.57	5.64	137.3E6	802.8E6	53.722	51.988
12) A	Endosulfan I	4.75	5.73	132.7E6	768.1E6	52.275	52.728
13) B	4,4'-DDE	4.68	5.90	139.7E6	809.7E6	52.740	52.357
14) MA	Dieldrin	5.07	6.15	141.6E6	845.4E6	51.608	52.867
15) MA	Endrin	5.39	6.65	124.2E6	728.6E6	50.505	59.165
16) A	4,4'-DDD	5.51	6.84	112.4E6	673.3E6	52.150	50.009
17) B	Endosulfan II	5.71	6.99	131.5E6	738.9E6	51.652	47.319
18) MA	4,4'-DDT	5.92	7.36	122.1E6	670.4E6	52.057	55.798
19) B	Endrin Aldehyde	6.34	7.56	102.4E6	578.2E6	53.862	53.179
20) B	Endosulfan Sulfa	7.03	8.02	121.8E6	664.2E6	60.105	56.569
21) A	Methoxychlor	6.70	8.60	69094100	335.2E6	56.445	57.285
22)	Mirex	6.83	8.90	113.1E6	526.9E6	53.322	51.106
23) B	Endrin Ketone	7.46	8.97	142.8E6	734.5E6	62.947	56.149

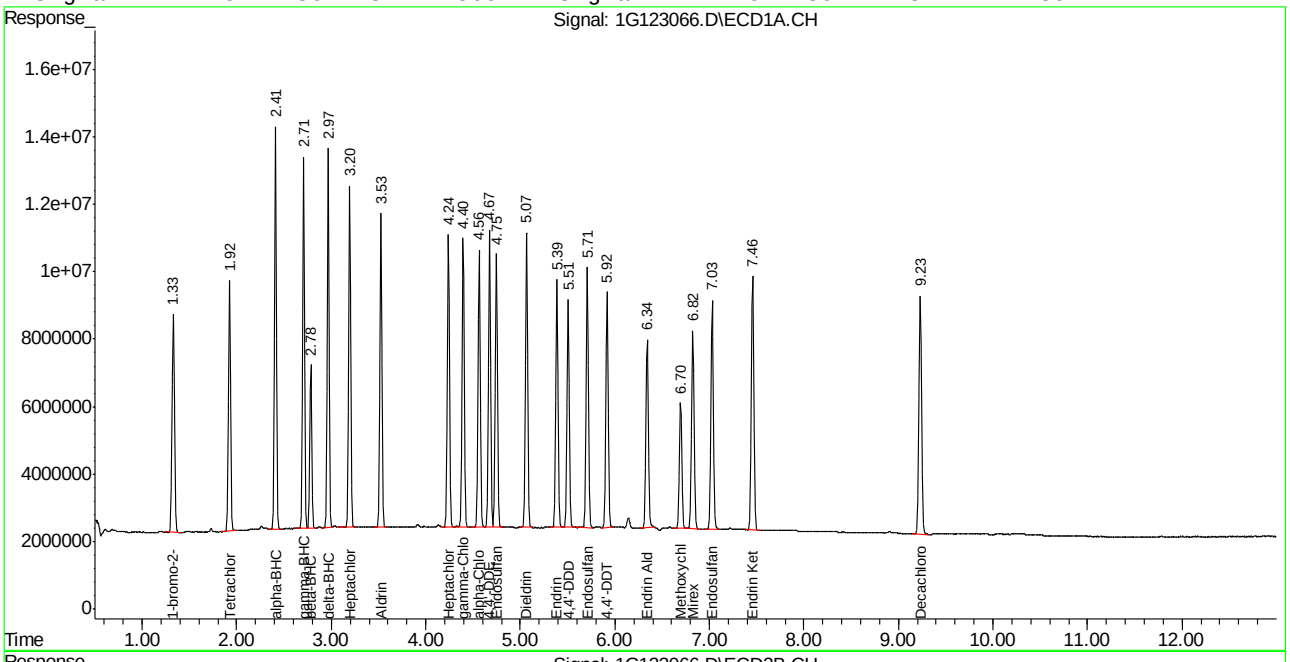
(f)=RT Delta > 1/2 Window (m)=manual int.

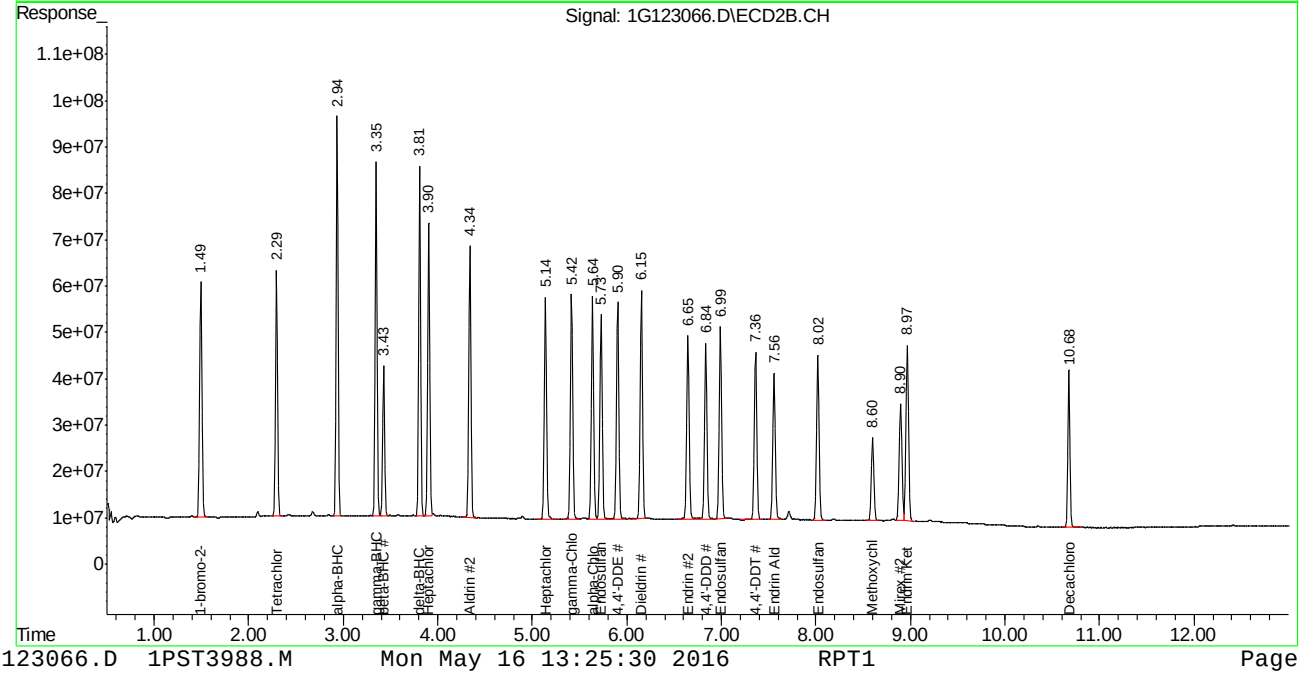
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD1A.CH Vial: 11
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123066.D\ECD2B.CH
Acq On : 16 May 2016 11:38 am Operator: thomasl
Sample : ic3988-50 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G3988\1G123067.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD2B.CH
Acq On : 16 May 2016 11:56 am Operator: thomasl
Sample : ic3988-75 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	119.1E6	896.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	171.1E6	1124.0E6	91.121	76.126
Spiked Amount	40.000	Range	30 - 150	Recovery	=	227.80%#	190.32%#
24) SA	Decachlorobiphen	9.23	10.68	209.2E6	753.7E6	78.927	72.756
Spiked Amount	40.000			Recovery	=	197.32%	181.89%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	260.0E6	1760.3E6	89.653	80.238
4) MA	gamma-BHC	2.71	3.35	239.5E6	1574.7E6	88.422	79.328
5) MA	Heptachlor	3.20	3.90	229.0E6	1428.6E6	82.654	76.671
6) B	beta-BHC	2.78	3.43	103.0E6	676.1E6	78.339	75.834
7) B	delta-BHC	2.97	3.81	236.1E6	1584.9E6	89.839	81.626
8) MB	Aldrin	3.53	4.34	216.8E6	1353.7E6	82.580	77.109
9) B	Heptachlor Epoxi	4.24	5.14	204.0E6	1169.6E6	79.673	74.503
10) B	gamma-Chlordane	4.40	5.42	205.9E6	1198.4E6	80.294	76.654
11) B	alpha-Chlordane	4.56	5.64	204.3E6	1161.7E6	81.016	75.507
12) A	Endosulfan I	4.75	5.73	197.0E6	1106.9E6	78.683	76.266
13) B	4,4'-DDE	4.67	5.90	208.2E6	1176.4E6	79.665	76.348
14) MA	Dieldrin	5.07	6.15	213.2E6	1227.7E6	78.774	77.055
15) MA	Endrin	5.39	6.65	185.1E6	1028.9E6	76.327	83.860
16) A	4,4'-DDD	5.51	6.83	169.4E6	972.5E6	79.648	72.496
17) B	Endosulfan II	5.71	6.99	194.8E6	1067.4E6	77.591	68.606
18) MA	4,4'-DDT	5.92	7.36	183.5E6	982.5E6	79.339	82.072
19) B	Endrin Aldehyde	6.34	7.56	158.6E6	851.7E6	84.543	78.618
20) B	Endosulfan Sulfa	7.03	8.02	180.5E6	960.8E6	90.343	82.129
21) A	Methoxychlor	6.70	8.60	101.3E6	491.6E6	83.867	84.322
22)	Mirex	6.83	8.90	165.0E6	759.7E6	78.872	73.959
23) B	Endrin Ketone	7.46	8.97	213.9E6	1065.0E6	95.611	81.705

(f)=RT Delta > 1/2 Window (m)=manual int.

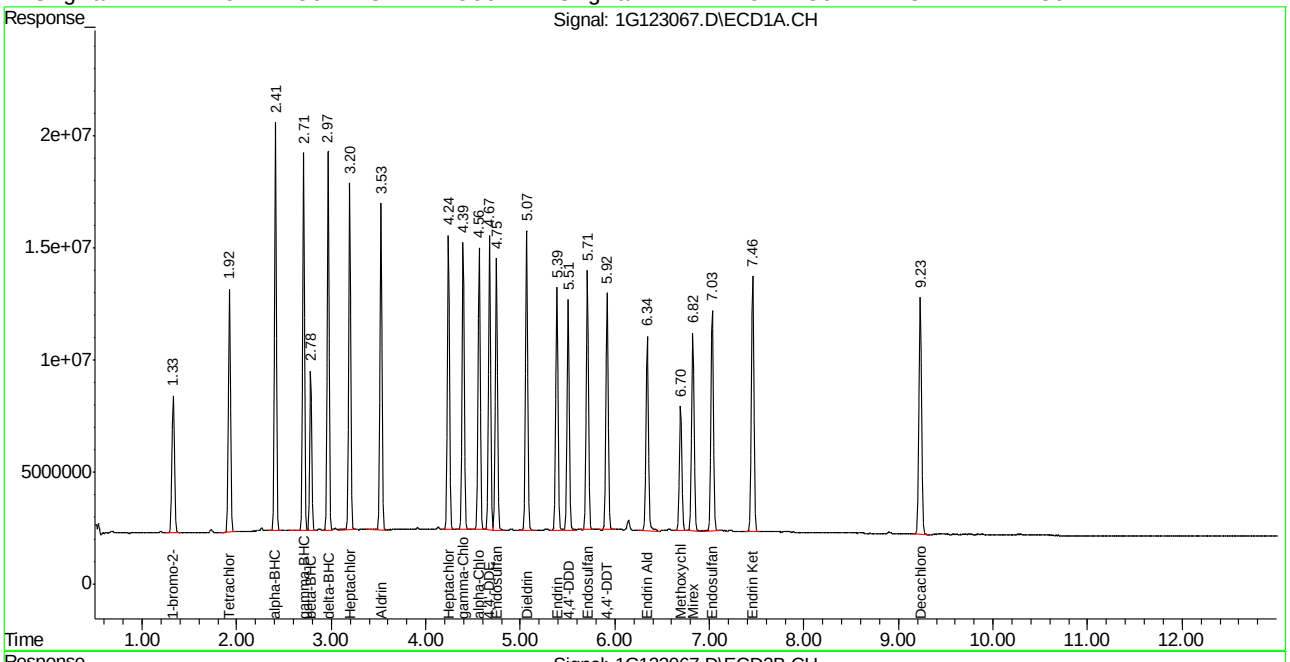
SGS ACCUTEST JC21229

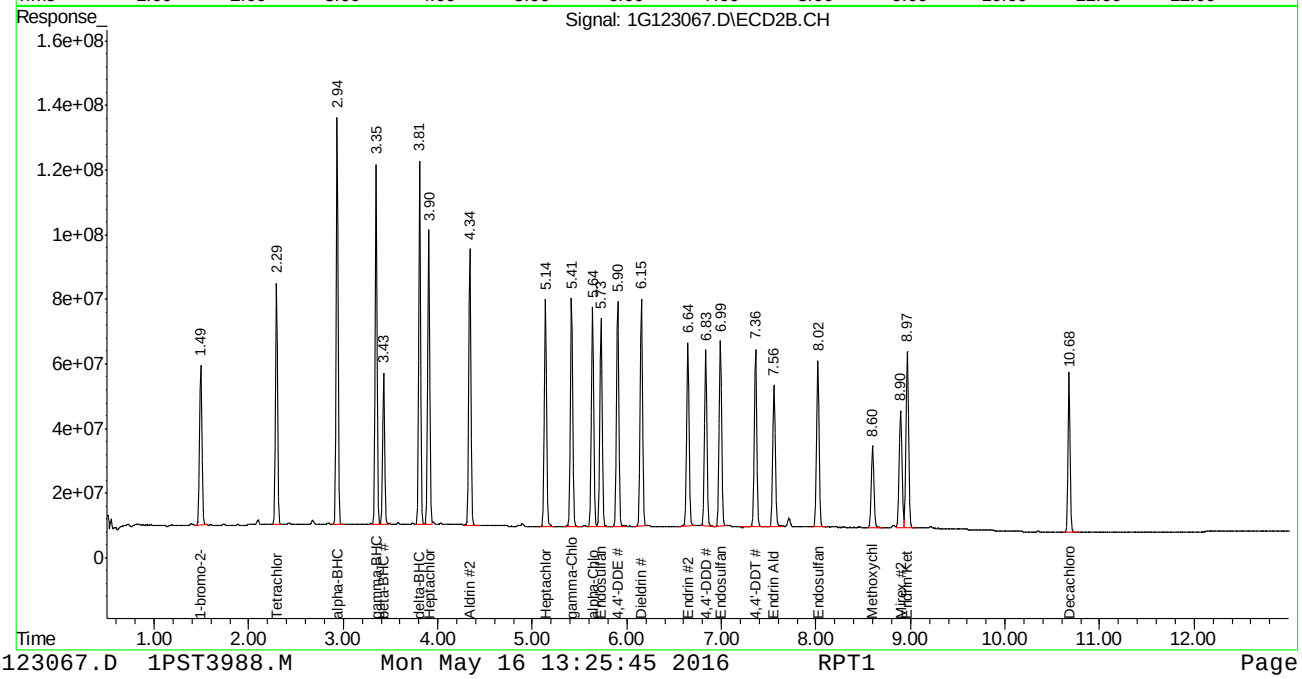
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD1A.CH Vial: 12
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123067.D\ECD2B.CH
Acq On : 16 May 2016 11:56 am Operator: thomasl
Sample : ic3988-75 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G3988\1G123068.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD2B.CH
Acq On : 16 May 2016 12:13 pm Operator: thomasl
Sample : ic3988-100 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	120.7E6	915.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.30	235.1E6	1510.5E6	123.638	100.097
Spiked Amount	40.000	Range	30 - 150	Recovery	=	309.10%#	250.24%#
24) SA	Decachlorobiphen	9.23	10.68	278.0E6	995.2E6	103.549	94.001
Spiked Amount	40.000			Recovery	=	258.87%	235.00%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	367.0E6	2399.7E6	124.938	107.027
4) MA	gamma-BHC	2.71	3.35	337.6E6	2141.8E6	123.055	105.571
5) MA	Heptachlor	3.20	3.91	320.1E6	1943.4E6	114.072	102.051
6) B	beta-BHC	2.78	3.43	141.7E6	903.6E6	106.372	99.171
7) B	delta-BHC	2.97	3.81	335.1E6	2163.1E6	125.901	109.003
8) MB	Aldrin	3.53	4.34	304.8E6	1851.8E6	114.591	103.210
9) B	Heptachlor Epoxi	4.24	5.14	285.2E6	1595.1E6	109.969	99.415
10) B	gamma-Chlordane	4.40	5.42	290.7E6	1644.1E6	111.892	102.900
11) B	alpha-Chlordane	4.56	5.64	285.7E6	1590.4E6	111.868	101.145
12) A	Endosulfan I	4.75	5.73	274.8E6	1505.9E6	108.375	101.521
13) B	4,4'-DDE	4.68	5.90	292.2E6	1618.8E6	110.382	102.793
14) MA	Dieldrin	5.07	6.16	299.3E6	1678.2E6	109.180	103.056
15) MA	Endrin	5.39	6.65	258.1E6	1420.5E6	105.072	113.280
16) A	4,4'-DDD	5.51	6.83	238.3E6	1342.2E6	110.627	97.896
17) B	Endosulfan II	5.71	6.99	270.3E6	1469.5E6	106.279	92.417
18) MA	4,4'-DDT	5.92	7.36	257.7E6	1338.6E6	110.029	109.412
19) B	Endrin Aldehyde	6.34	7.56	216.5E6	1144.8E6	113.944	103.394
20) B	Endosulfan Sulfa	7.03	8.02	247.8E6	1299.2E6	122.436	108.665
21) A	Methoxychlor	6.70	8.60	137.7E6	644.4E6	112.618	108.154
22)	Mirex	6.83	8.90	222.5E6	1012.6E6	104.993	96.451
23) B	Endrin Ketone	7.46	8.97	293.1E6	1431.8E6	129.340	107.484

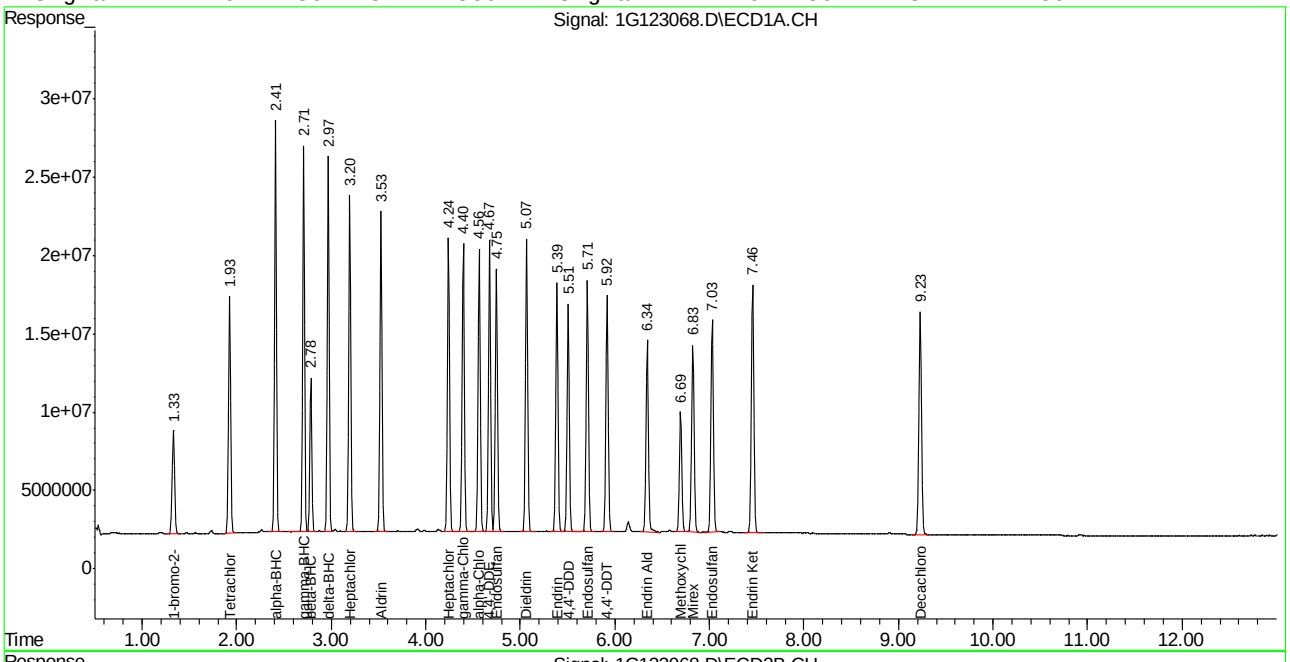
(f)=RT Delta > 1/2 Window (m)=manual int.

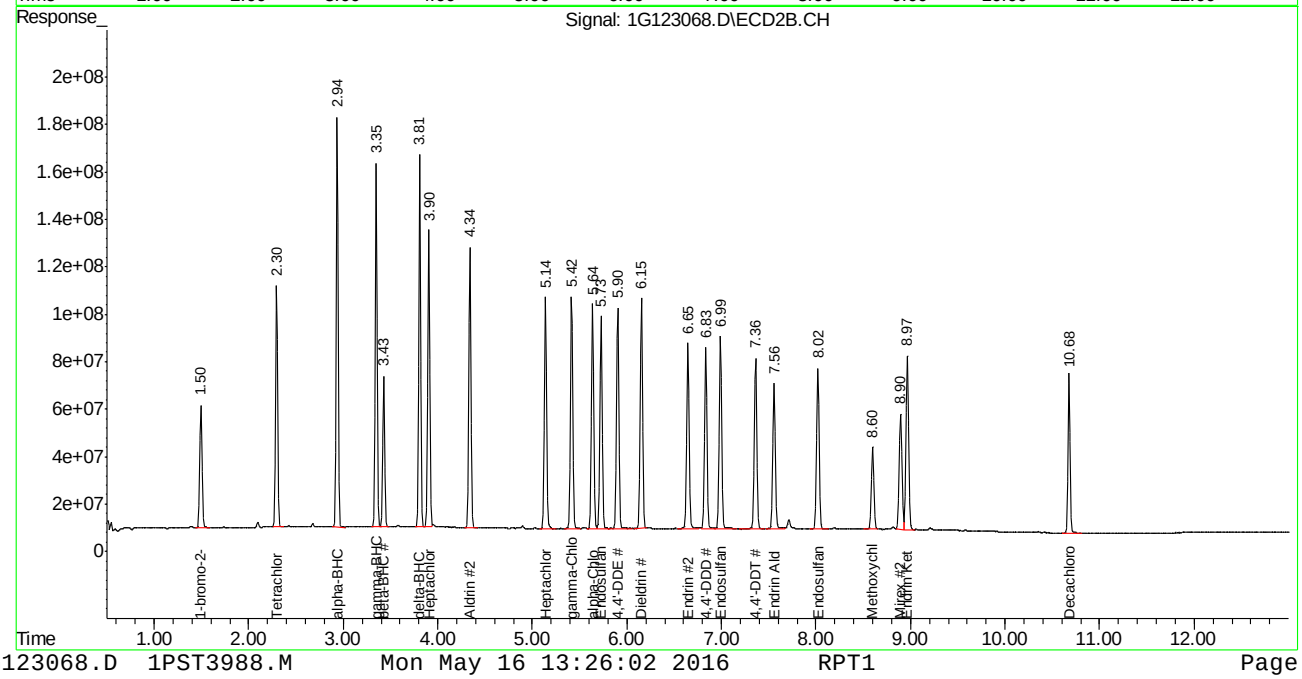
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123068.D\ECD2B.CH
Acq On : 16 May 2016 12:13 pm Operator: thomasl
Sample : ic3988-100 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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
05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On : 16 May 2016 12:31 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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						
31) I	1-bromo-2-nitrob	1.33	1.49	116.8E6	869.4E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane {A}	3.11	3.71	42766969	319.2E6	567.867	591.249
33)	Chlordane {B}	3.67	4.53	55545856	323.4E6	556.551	520.110
34)	Chlordane {C}	4.40	5.42	189.5E6	1058.3E6	547.997	549.001
35)	Chlordane {D}	4.56	5.64	296.0E6	1751.4E6	550.296	554.452m
36)	Chlordane {E}	5.61	7.07	44250029	315.1E6	588.663	506.346

11.6.9
11

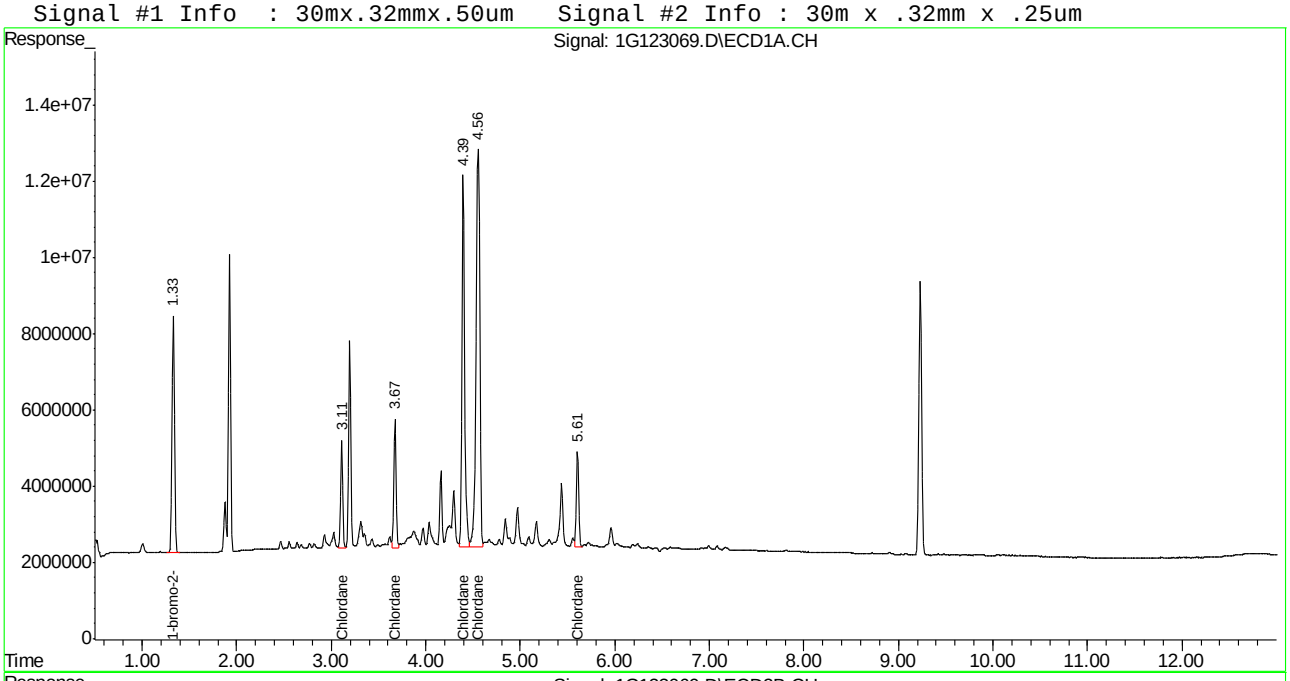
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123069.D 1PST3988.M Mon May 16 13:26:21 2016 RPT1 Page 1

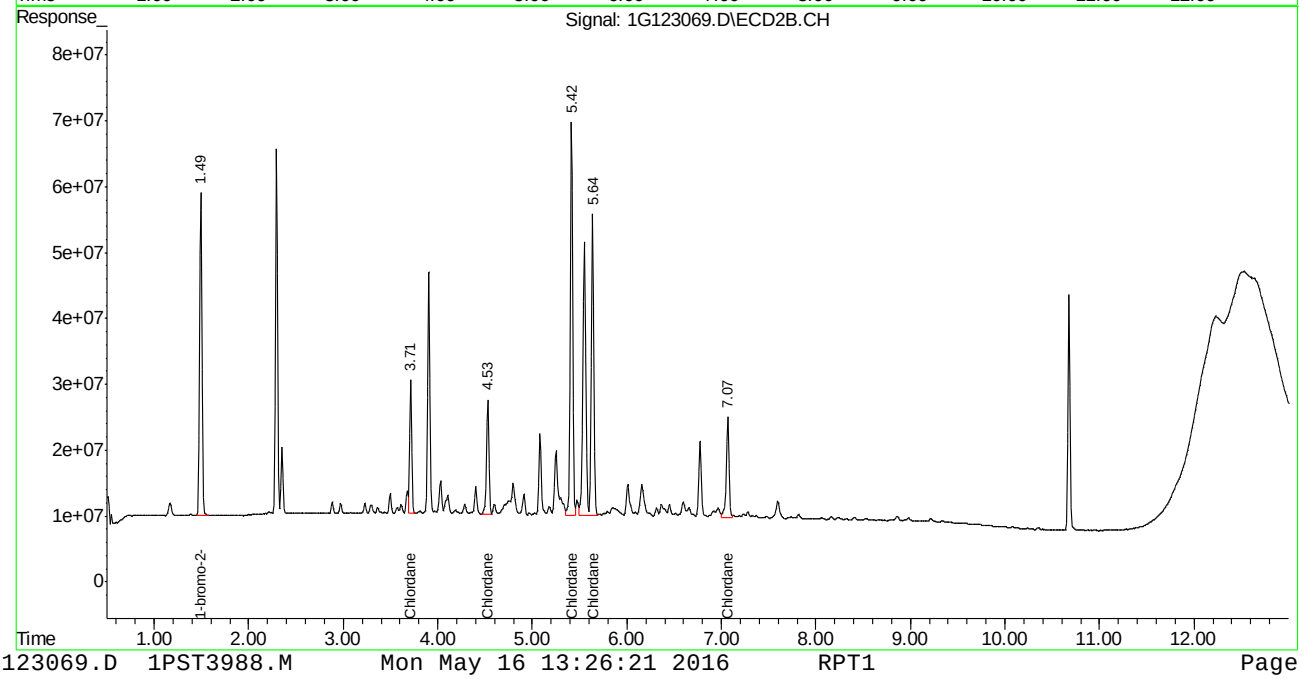
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On : 16 May 2016 12:31 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

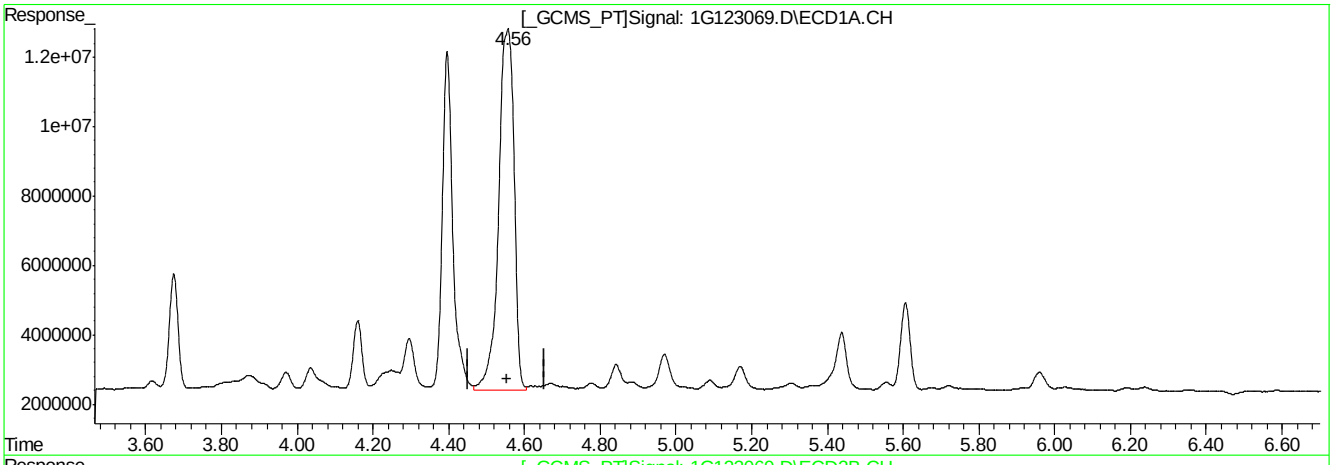
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123069.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 12:31	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

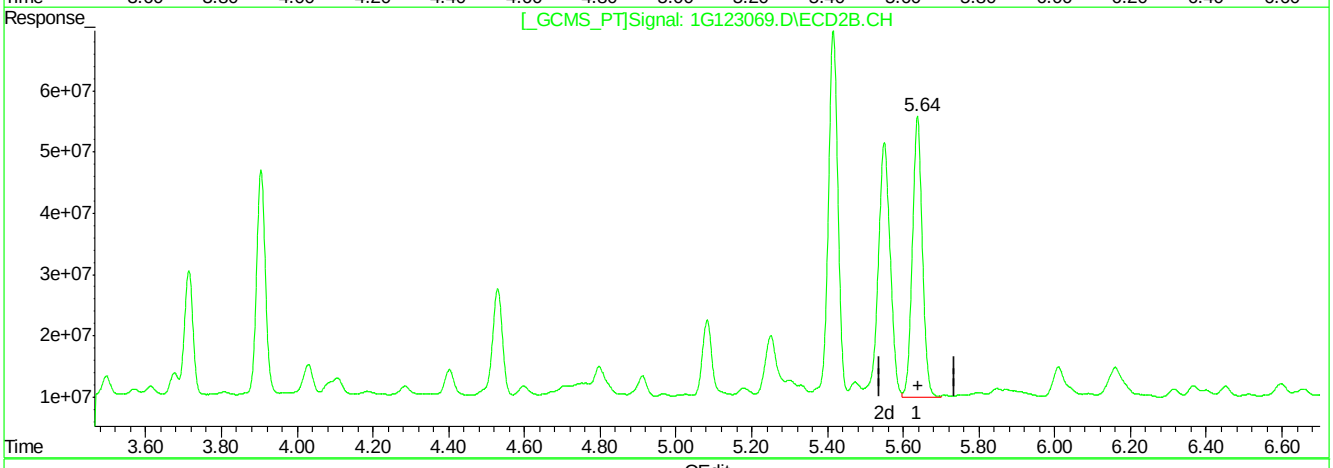
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.64	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On : 16 May 2016 12:31 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:08 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(35) Chlordane {D}

4.56min 550.296PPB

response 295995575

(35) Chlordane {D} #2

5.64min 265.578PPB

response 838910491

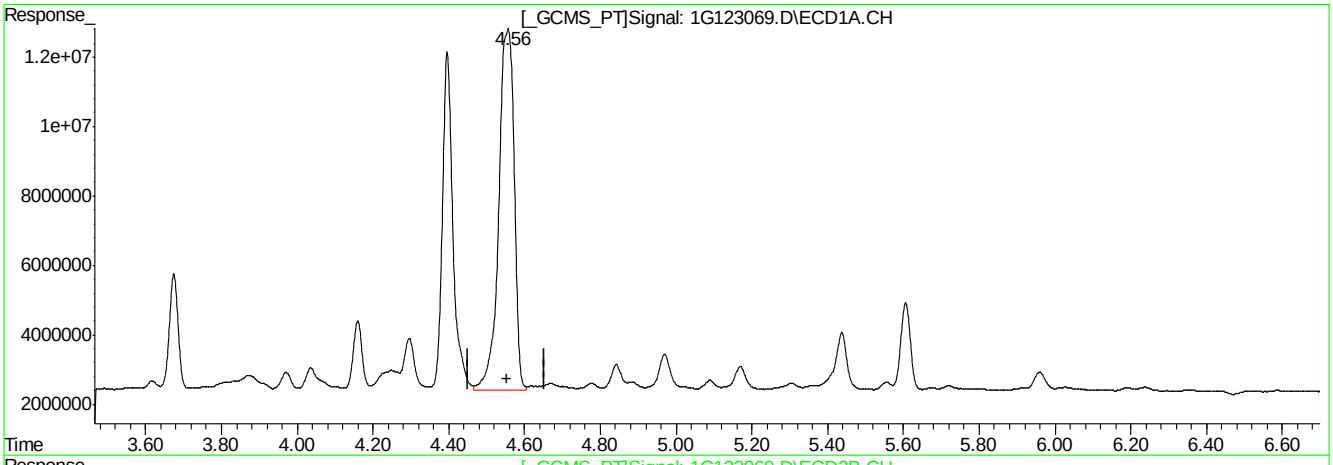
(+) = Expected Retention Time

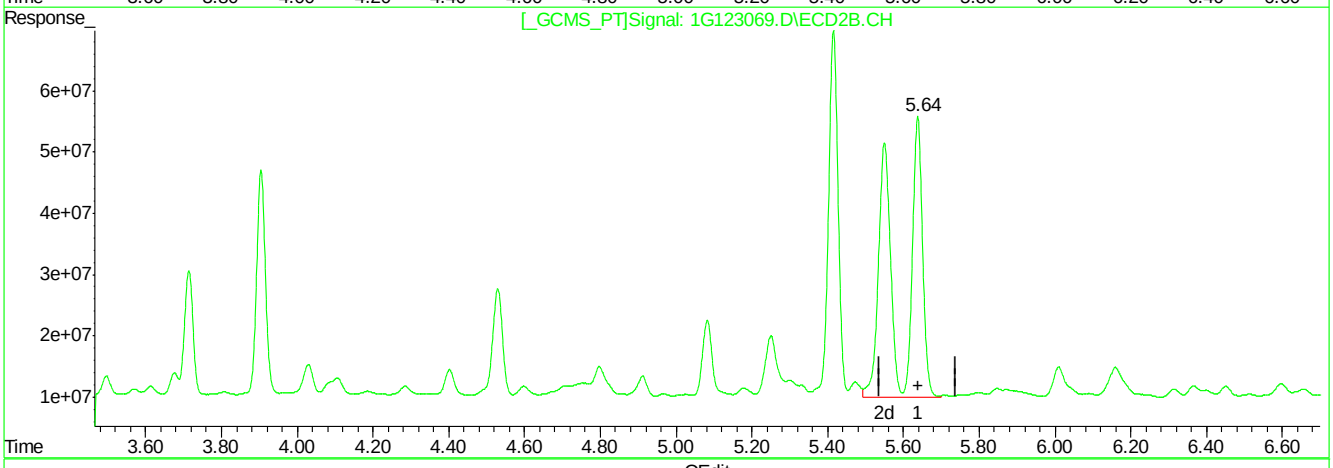
1G123069.D 1PST3988.M Mon May 16 13:08:12 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD1A.CH Vial: 14
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123069.D\ECD2B.CH
Acq On : 16 May 2016 12:31 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:08 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(35) Chlordane {D}

4.56min 550.296PPB

response 295995575

(35) Chlordane {D} #2

5.64min 554.452PPB m

response 1751408243

(+) = Expected Retention Time
1G123069.D 1PST3988.M Mon May 16 13:09:04 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On : 16 May 2016 12:48 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	123.2E6	905.8E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	5.08	6.12	20160542	122.0E6	498.711	522.284
27) L8	Toxaphene{B}	5.69	6.96	57479048	263.2E6	665.347	775.867
28) L8	Toxaphene{C}	5.87	7.12	30957300	459.8E6	476.346m	584.300m
29) L8	Toxaphene{D}	6.20	7.56	35322203	286.1E6	520.794	577.370
30) L8	Toxaphene{E}	6.85	8.44	40690779	273.5E6	526.068	646.077

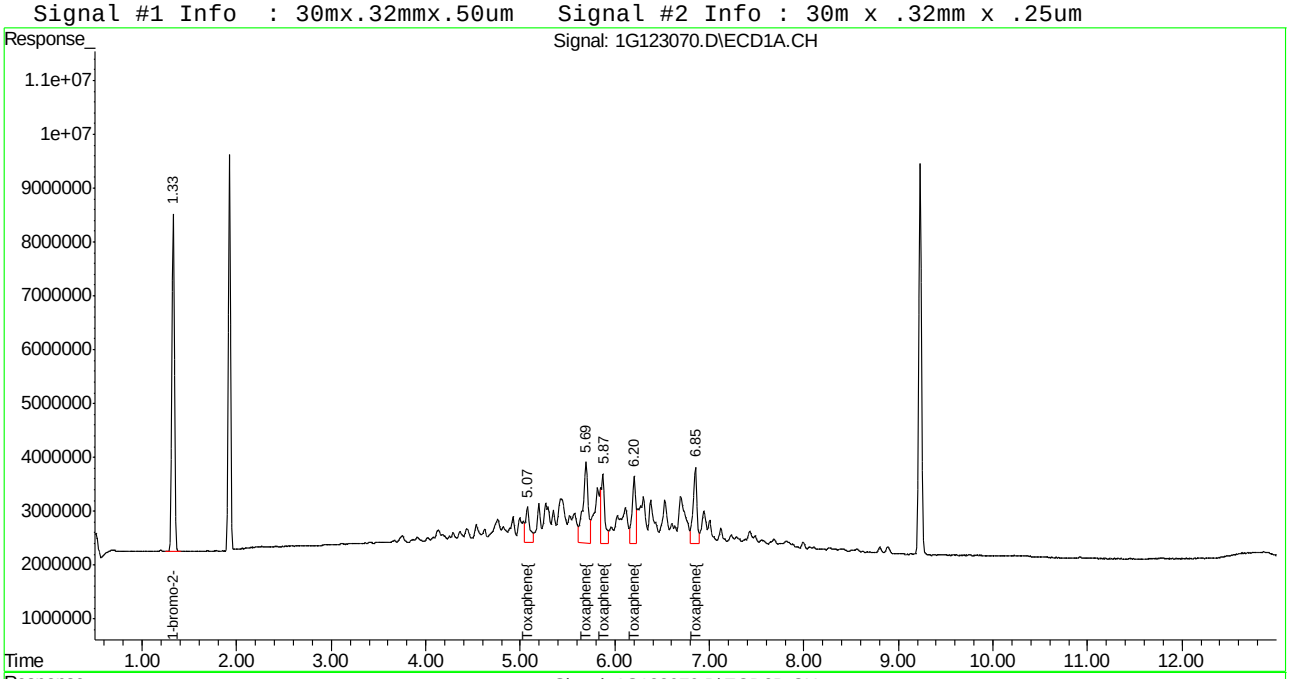
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123070.D 1PST3988.M Mon May 16 13:26:42 2016 RPT1 Page 1

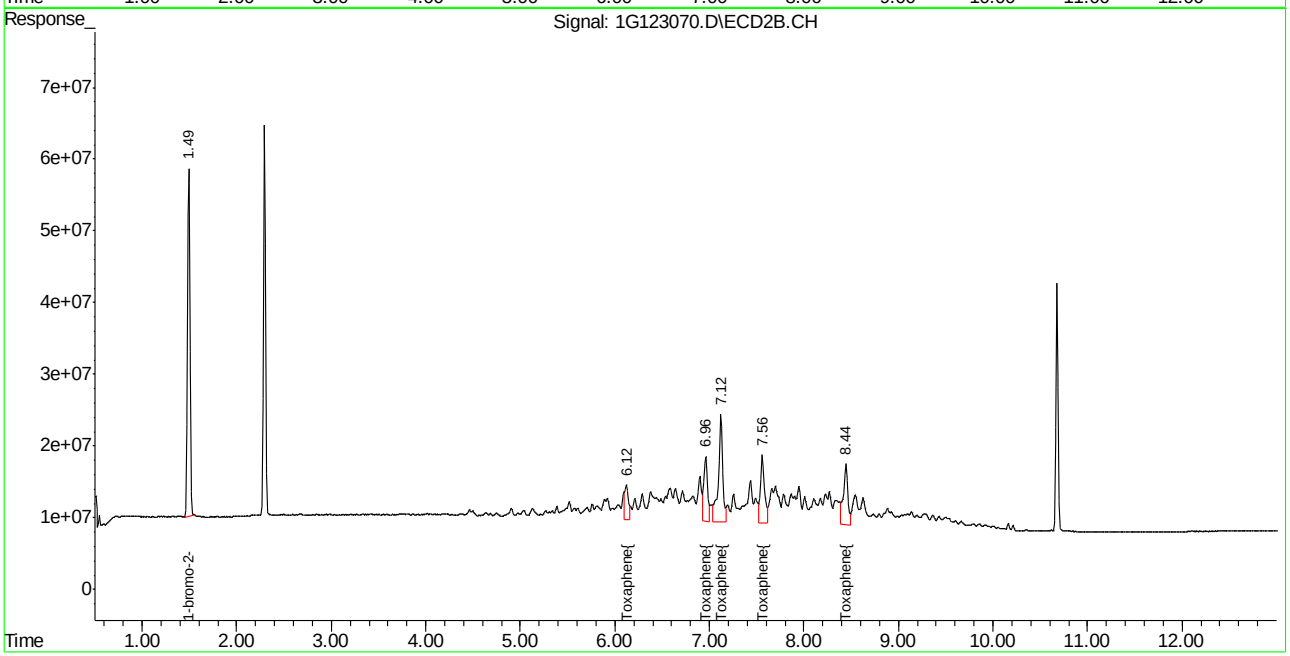
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On : 16 May 2016 12:48 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:26 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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

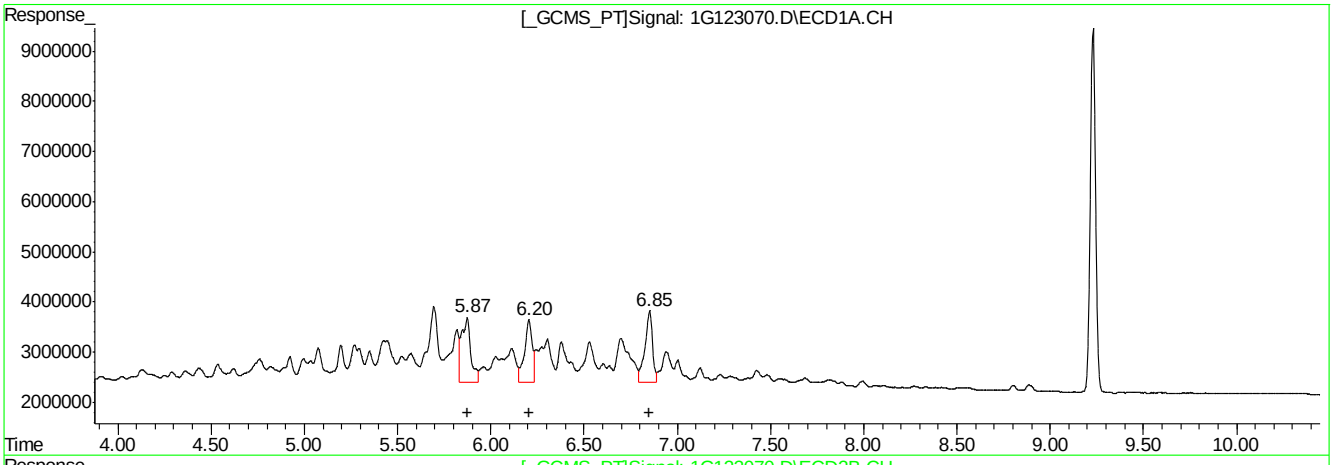
Sample Number:	G1G3988-IC3988	**Method:**	SW846 8081B
Lab FileID:	1G123070.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 12:48	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

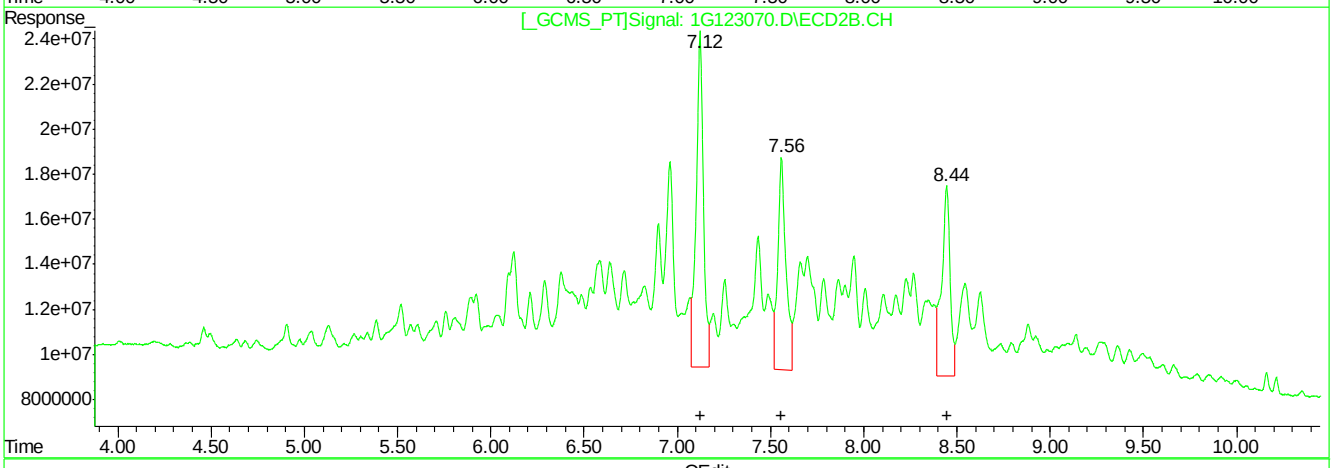
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	5.87	Poor instrument integration
Toxaphene-C		2	7.12	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On : 16 May 2016 12:48 pm Operator: thomasl
Sample : ic3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 13:14 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration





QEdit

(28) Toxaphene{C} (L8)

R.T.	Response	Conc
5.87	43893204	675.39
6.20	35322203	520.79
6.85	40690779	526.07

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	396795147	504.20
7.56	286123301	577.37
8.44	273520737	646.08

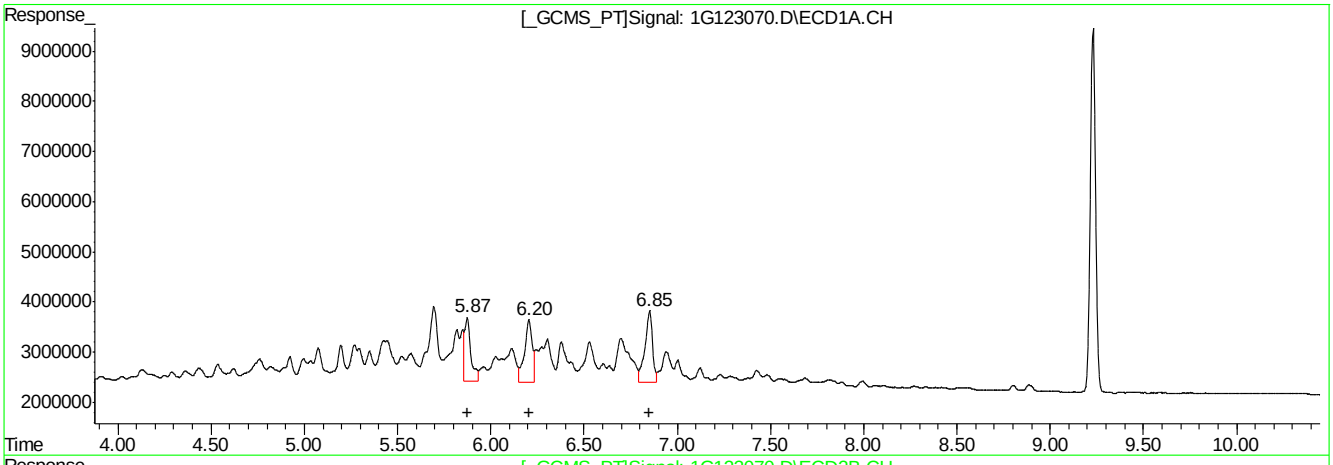
(+) = Expected Retention Time

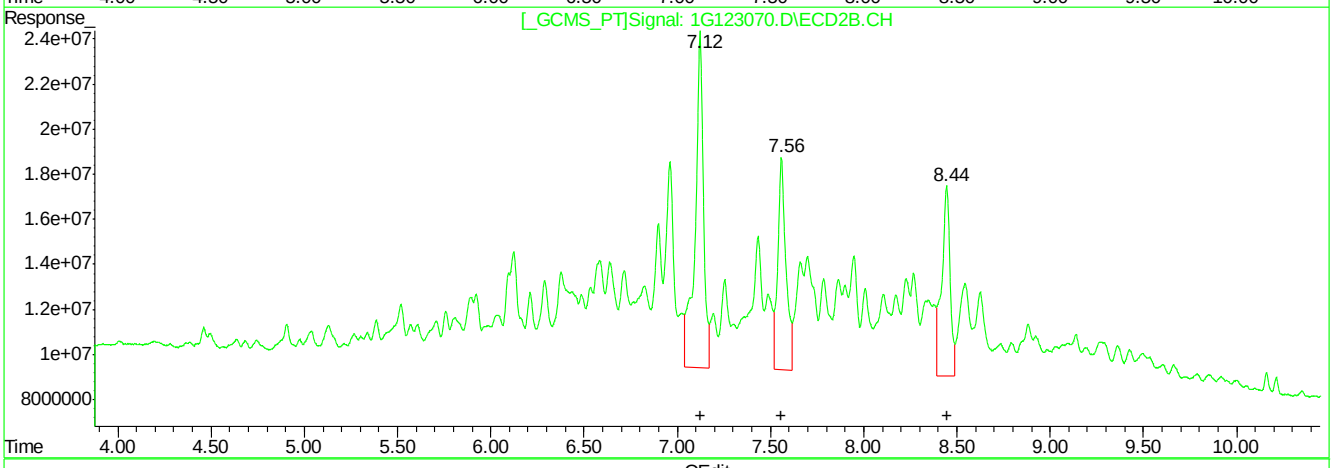
1G123070.D 1PST3988.M Mon May 16 13:19:55 2016 RPT1

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123070.D\ECD2B.CH
Acq On    : 16 May 2016  12:48 pm                    Operator: thomasl
Sample    : ic3988-500                               Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 13:14 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 09:01:14 2016
Response via : Multiple Level Calibration
```





QEdit

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
5.87	30957300	476.35
6.20	35322203	520.79
6.85	40690779	526.07

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	459829039	584.30
7.56	286123301	577.37
8.44	273520737	646.08

(+) = Expected Retention Time

1G123070.D 1PST3988.M Mon May 16 13:21:52 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD2B.CH
Acq On : 5-16-16 01:06:17 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:23 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	125.2E6	922.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	125.2E6	922.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	125.2E6	922.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	53419128	393.3E6	23.624	23.987
Spiked Amount	40.000 Range	30 - 150	Recovery	=		59.06%	59.97%
24) SA	Decachlorobiphen	9.23	10.68	71179744	270.2E6	23.136	23.468
Spiked Amount	40.000		Recovery	=		57.84%	58.67%
	Target Compounds						
3) A	alpha-BHC	2.41	2.94	69973400	549.9E6	21.626	22.397
4) MA	gamma-BHC	2.71	3.35	66781531	500.5E6	22.081	22.520
5) MA	Heptachlor	3.19	3.90	65404367	461.2E6	21.249	22.221
6) B	beta-BHC	2.78	3.43	31083974	226.9E6	21.481	22.291
7) B	delta-BHC	2.97	3.81	68657461	522.6E6	23.158	23.527
8) MB	Aldrin	3.53	4.34	61093108	442.8E6	21.773	23.294
9) B	Heptachlor Epoxi	4.24	5.14	60578460	393.3E6	22.001	23.188
10) B	gamma-Chlordane	4.40	5.42	61356009	407.7E6	21.605	23.534
11) B	alpha-Chlordane	4.56	5.64	60710912	389.7E6	21.523	22.652
12) A	Endosulfan I	4.75	5.73	56933601	366.9E6	20.967	23.140
13) B	4,4'-DDE	4.68	5.90	61141327	390.5E6	21.479	22.881
14) MA	Dieldrin	5.07	6.15	61381168	410.2E6	21.711	23.086
15) MA	Endrin	5.39	6.65	54757160	346.2E6	21.377	22.030
16) A	4,4'-DDD	5.51	6.83	48859032	325.7E6	21.872	23.151
17) B	Endosulfan II	5.71	6.99	57469158	359.5E6	21.390	22.452
18) MA	4,4'-DDT	5.92	7.36	50470978	309.2E6	20.745	22.531
19) B	Endrin Aldehyde	6.34	7.56	47393363	293.9E6	22.319	23.920
20) B	Endosulfan Sulfa	7.03	8.02	54345520	324.3E6	21.075	23.134
21) A	Methoxychlor	6.70	8.60	29944802	158.4E6	20.420	21.555
23) B	Endrin Ketone	7.46	8.97	63565849	362.6E6	21.784	23.099

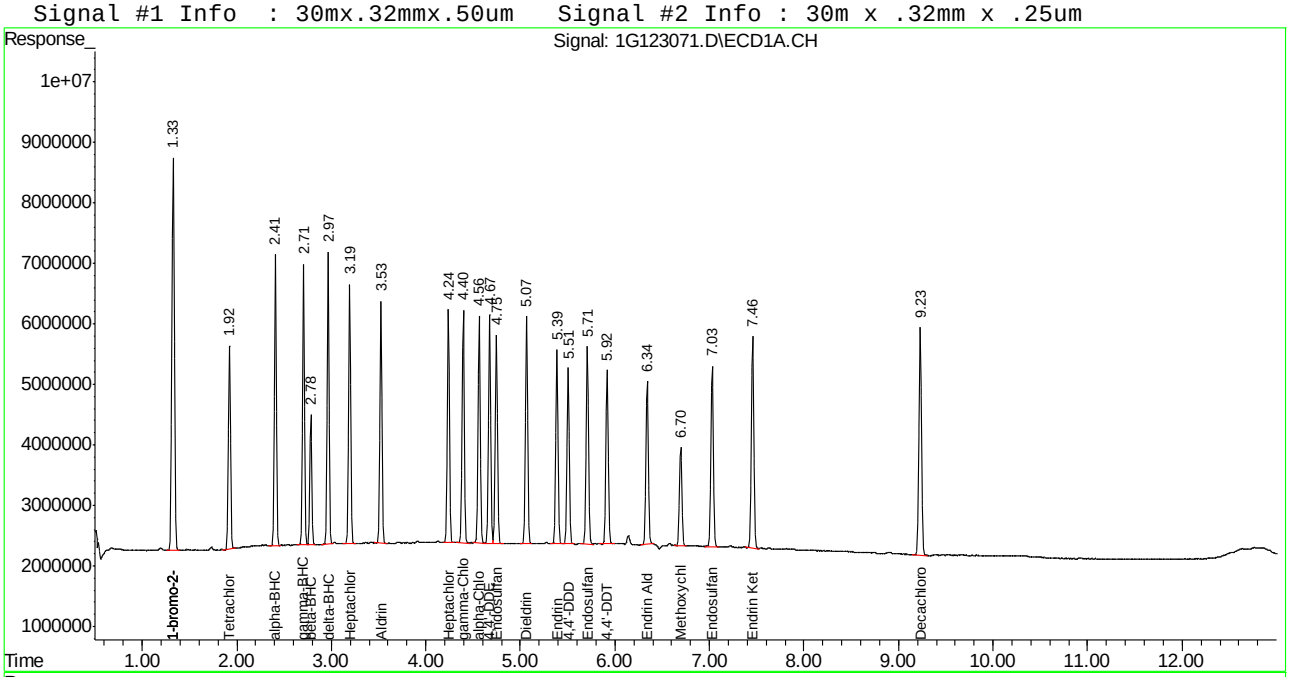
(f)=RT Delta > 1/2 Window (m)=manual int.

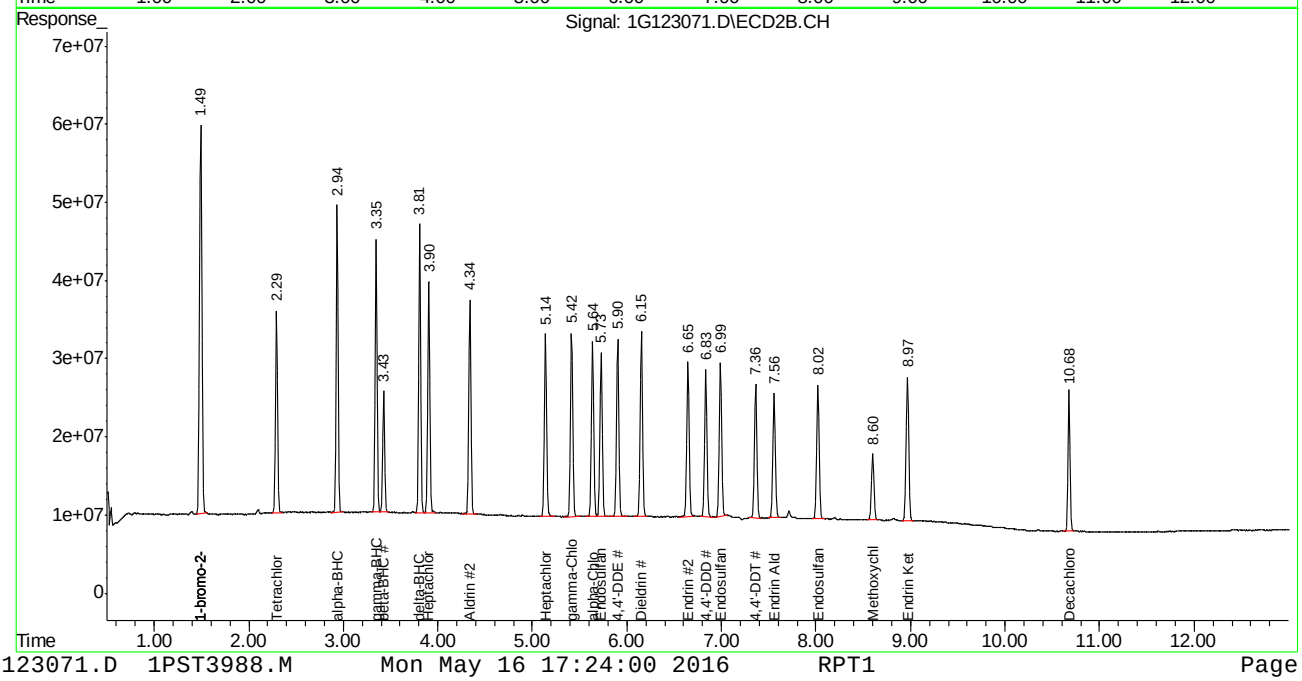
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD1A.CH Vial: 16
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123071.D\ECD2B.CH
Acq On : 5-16-16 01:06:17 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:23 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD1A.CH Vial: 17
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD2B.CH
Acq On : 5-16-16 01:23:45 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.50	124.5E6	923.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.50	124.5E6	923.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.50	124.5E6	923.2E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	6.83	8.90	55767800	276.1E6	22.863	23.537

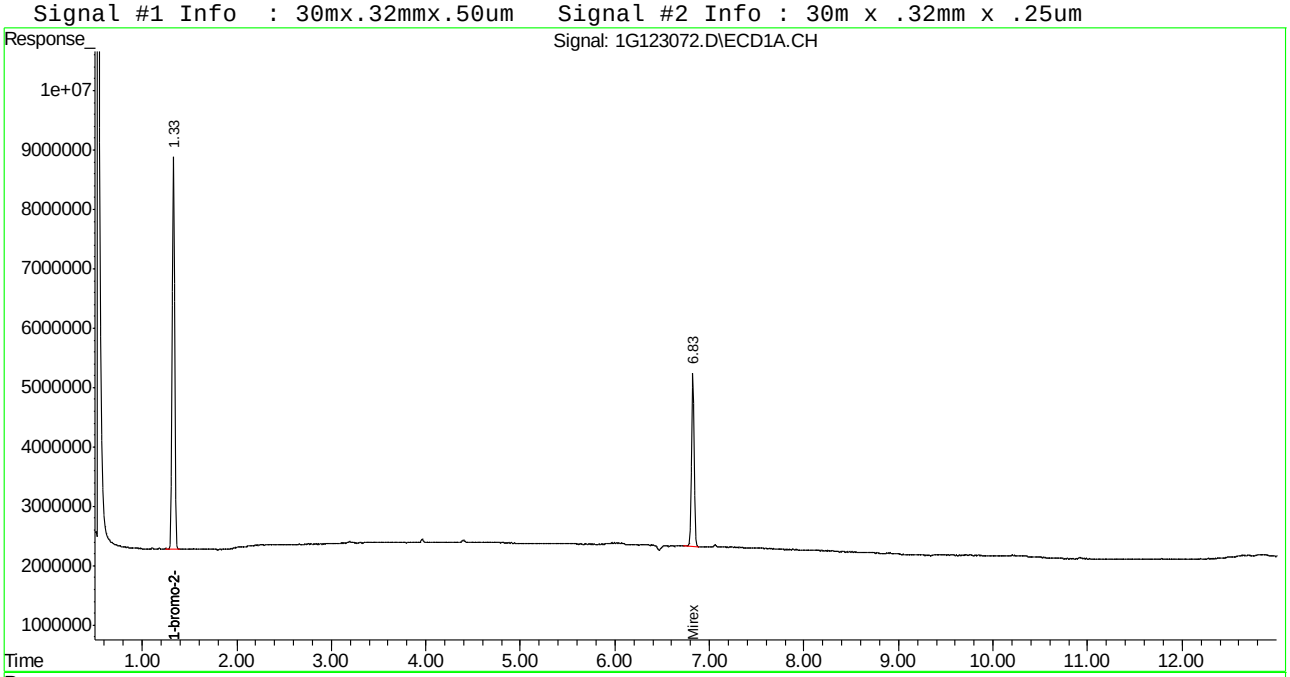
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123072.D 1PST3988.M Mon May 16 17:24:33 2016 RPT1 Page 1

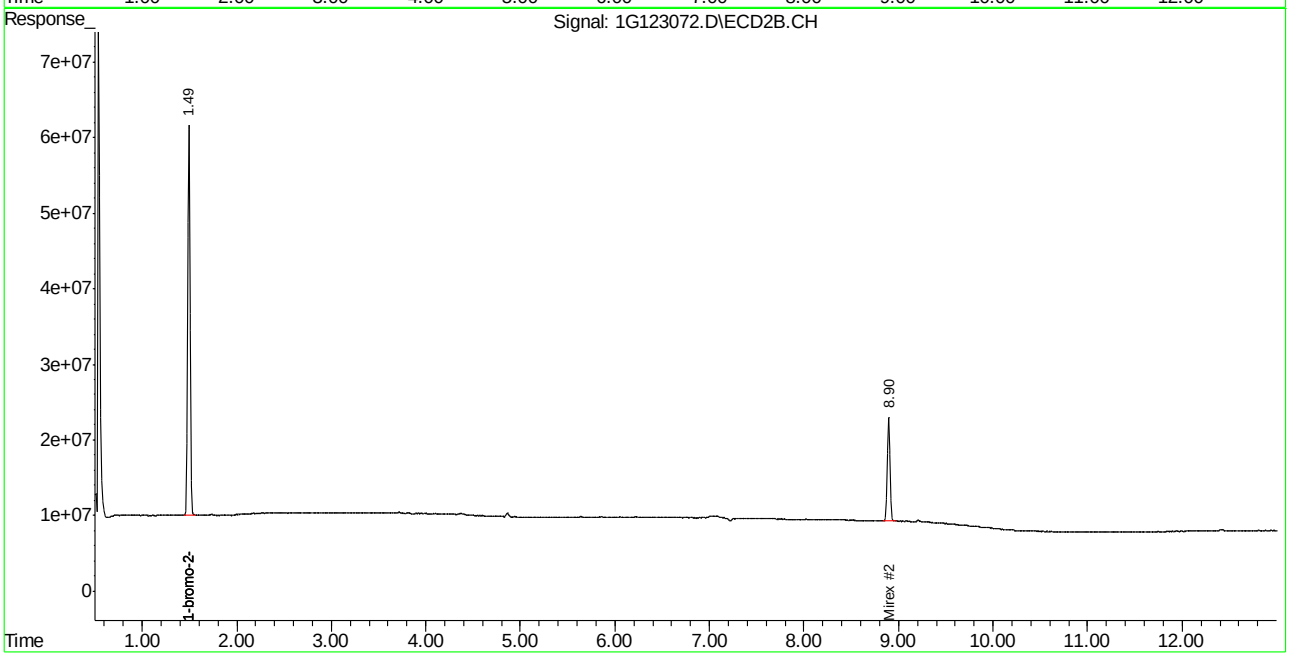
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD1A.CH Vial: 17
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123072.D\ECD2B.CH
Acq On : 5-16-16 01:23:45 PM Operator: thomasl
Sample : icv3988-25 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 17:24 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 17:21:26 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On : 5-16-16 01:41:21 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 14:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	123.5E6	900.2E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	123.5E6	900.2E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	123.5E6	900.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	105.8E6	734.7E6	47.413	45.875
Spiked Amount	40.000	Range	30 - 150	Recovery	=	118.53%	114.69%
24) SA	Decachlorobiphen	9.23	10.68	139.4E6	525.8E6	45.949	46.731
Spiked Amount	40.000			Recovery	=	114.87%	116.83%
	Target Compounds						
32)	Chlordane {A}	3.11	3.71	48030860	359.5E6	531.033	543.871
33)	Chlordane {B}	3.67	4.53	54143132	326.9E6	460.895	488.212
34)	Chlordane {C}	4.40	5.42	175.2E6	999.5E6	437.175	456.024
35)	Chlordane {D}	4.55	5.64	279.1E6	1667.0E6	445.780	459.597m
36)	Chlordane {E}	5.60	7.07	43378325	296.3E6	463.521	453.997

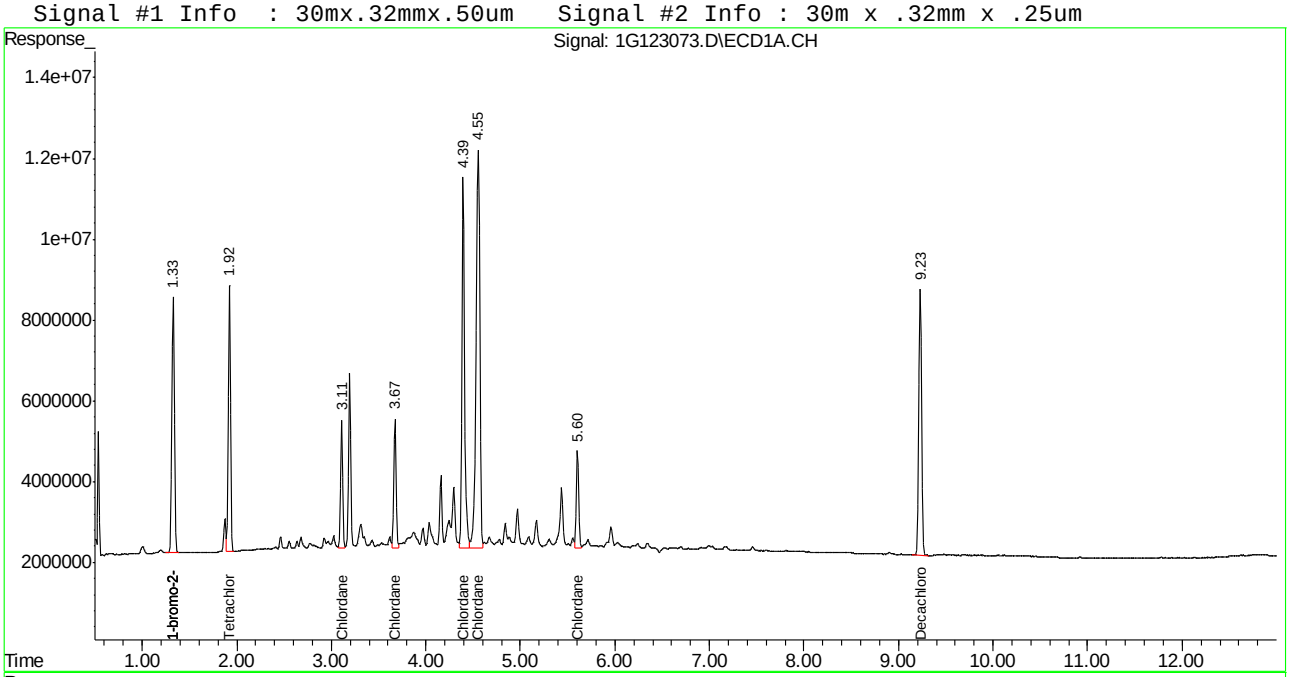
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123073.D 1PST3988.M Mon May 16 14:57:03 2016 RPT1 Page 1

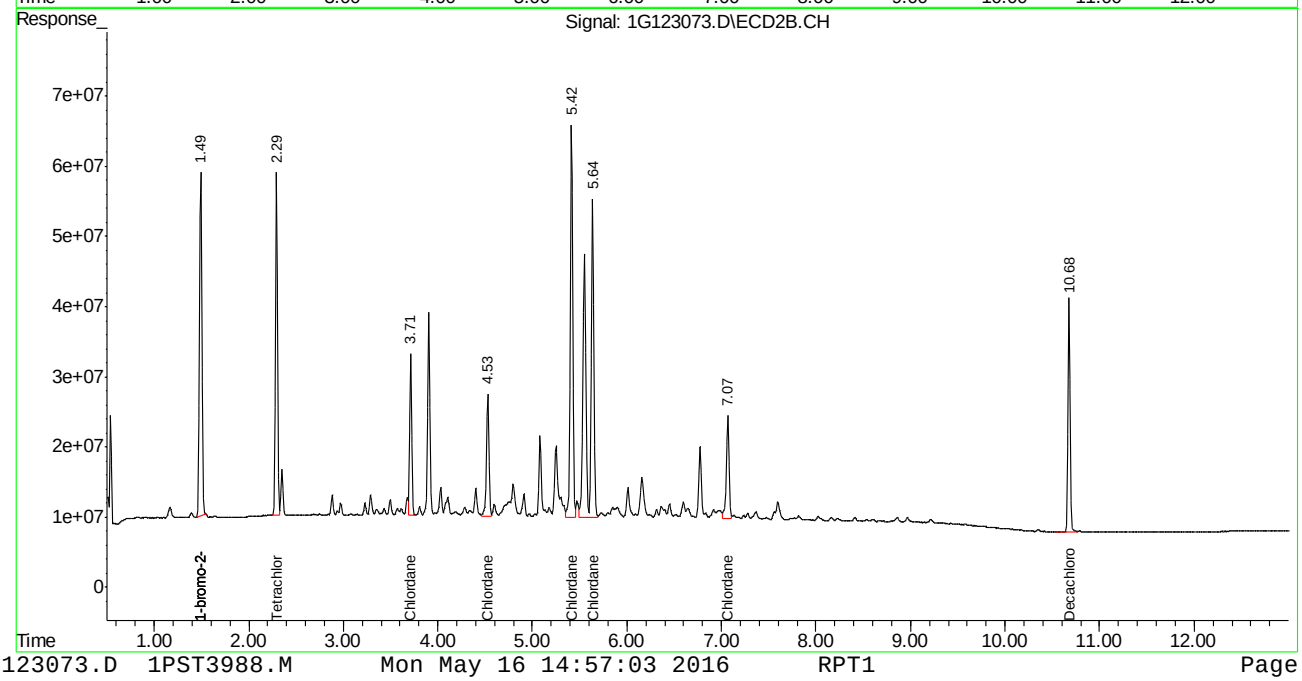
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On : 5-16-16 01:41:21 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 14:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integration Approval Summary

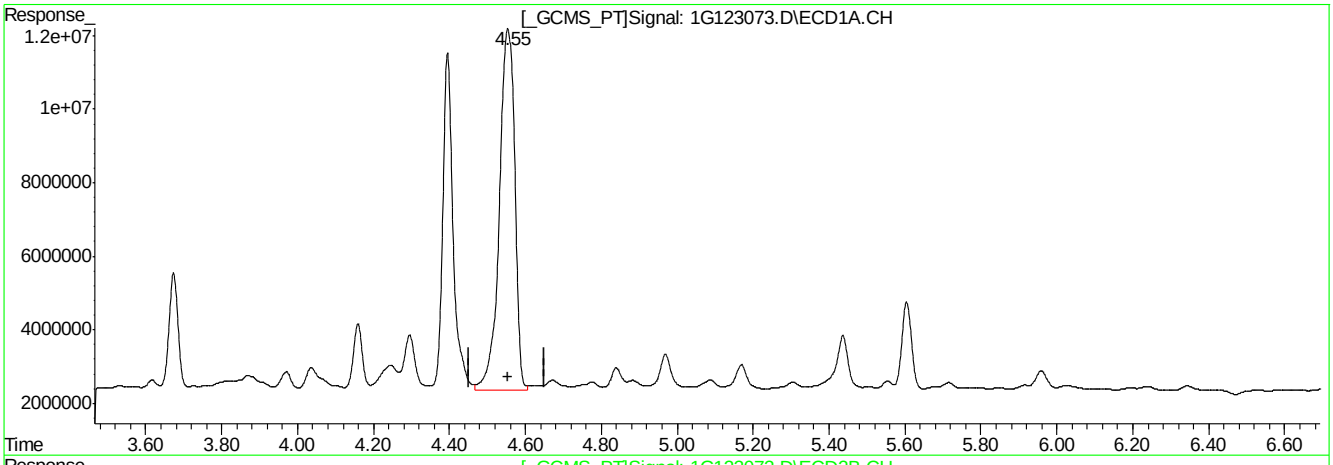
Sample Number:	G1G3988-ICV3988	**Method:**	SW846 8081B
Lab FileID:	1G123073.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 13:41	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

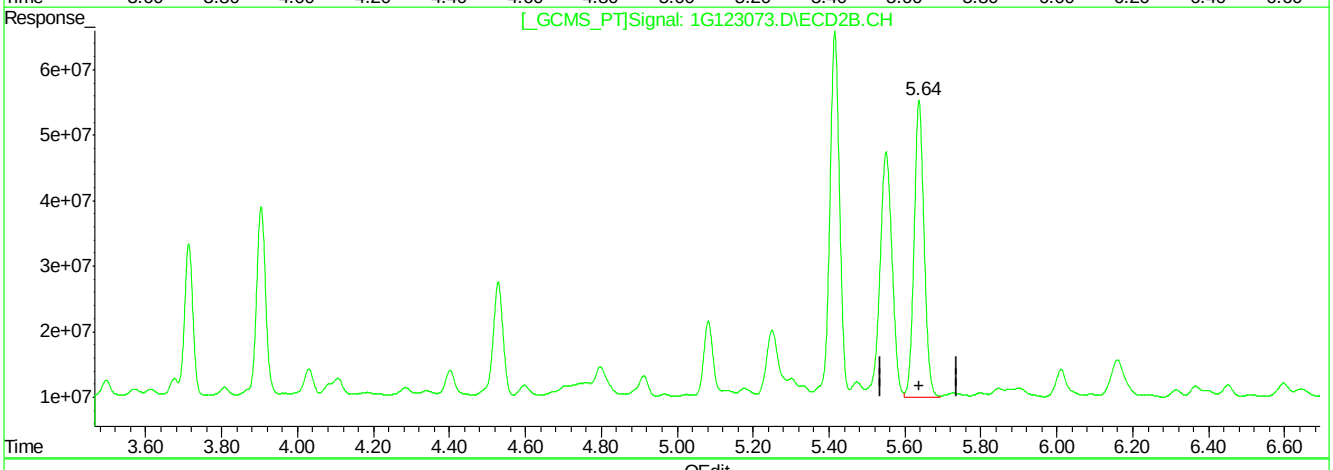
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	5.64	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On : 5-16-16 01:41:21 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 14:55 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(35) Chlordane {D}

4.55min 445.780PPB

response 279058613

(35) Chlordane {D} #2

5.64min 228.397PPB

response 828390770

(+) = Expected Retention Time

1G123073.D 1PST3988.M Mon May 16 14:56:04 2016 RPT1

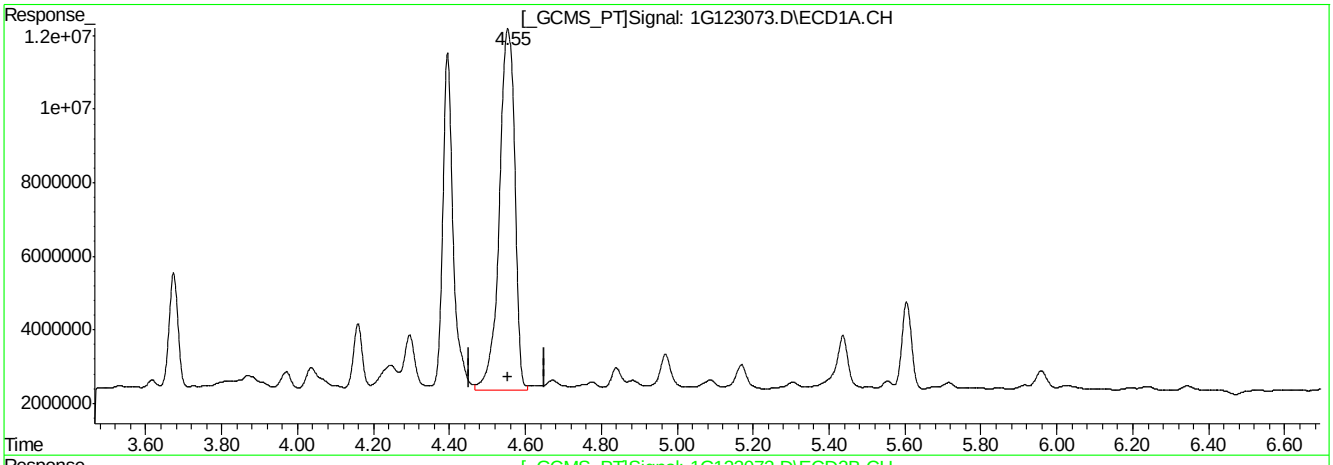
11.6.13.2

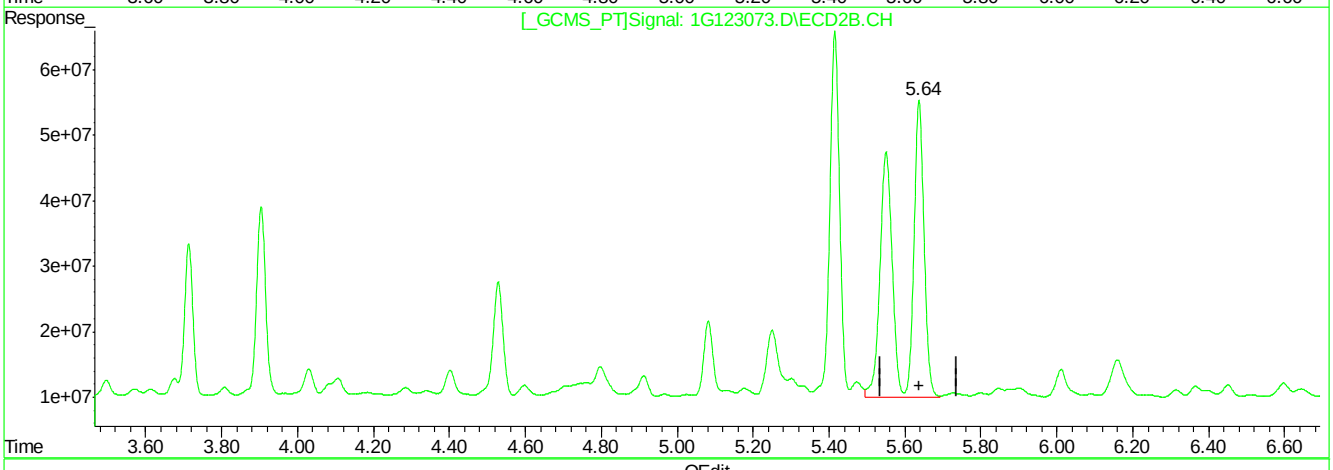
11

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD1A.CH Vial: 18
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123073.D\ECD2B.CH
Acq On : 5-16-16 01:41:21 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 14:55 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(35) Chlordane {D}

4.55min 445.780PPB

response 279058613

(35) Chlordane {D} #2

5.64min 459.597PPB m

response 1666951512

(+) = Expected Retention Time

1G123073.D 1PST3988.M Mon May 16 14:56:47 2016 RPT1

11.6.13.3 11

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/16/16 17:43

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	124.8E6	901.9E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	124.8E6	901.9E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	124.8E6	901.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.30	105.3E6	732.6E6	46.665	45.661
Spiked Amount	40.000	Range	30 - 150	Recovery	=	116.66%	114.15%
24) SA	Decachlorobiphen	9.23	10.68	136.1E6	519.0E6	44.369	46.037
Spiked Amount	40.000			Recovery	=	110.92%	115.09%
	Target Compounds						
26) L8	Toxaphene{A}	5.07	6.12	23030714	124.7E6	563.788	513.130m
27) L8	Toxaphene{B}	5.70	6.96	58437381	282.7E6	501.755	539.366
28) L8	Toxaphene{C}	5.87	7.12	32628867	473.3E6	520.175m	516.853
29) L8	Toxaphene{D}	6.20	7.56	36980687	294.9E6	516.700m	517.505
30) L8	Toxaphene{E}	6.85	8.44	40360721	279.0E6	489.524	512.161

(f)=RT Delta > 1/2 Window (m)=manual int.

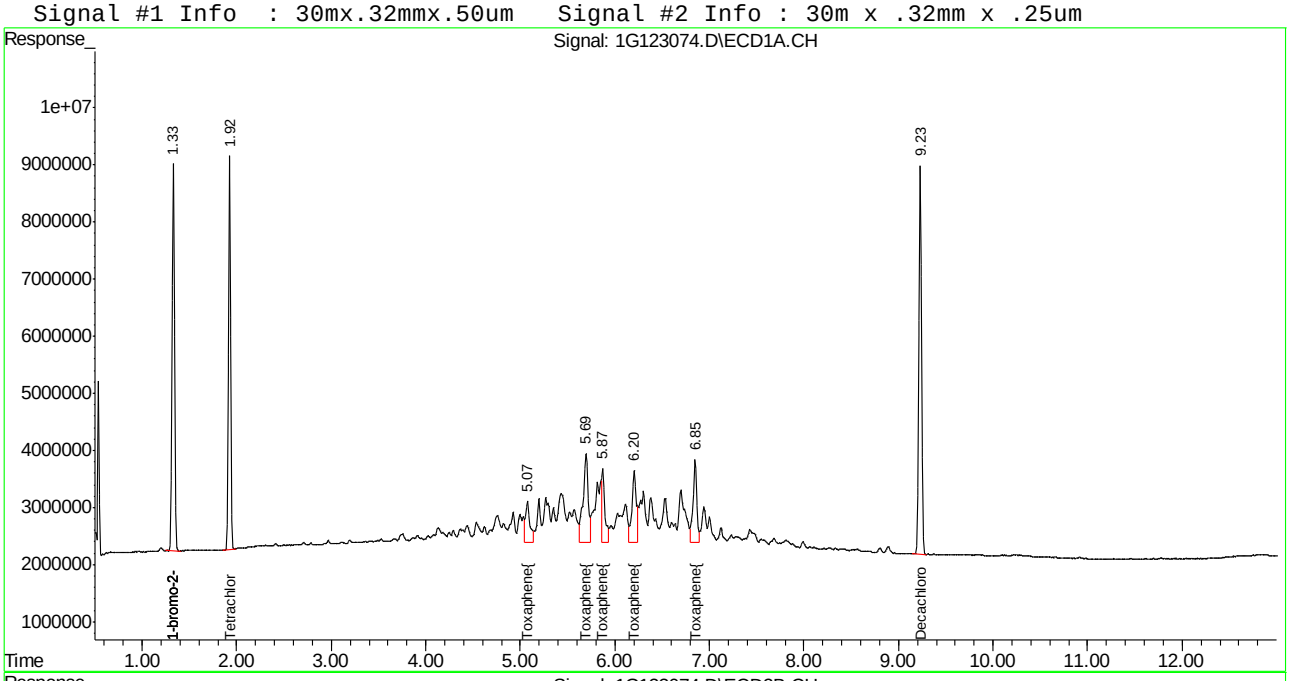
SGS ACCUTEST JC21229

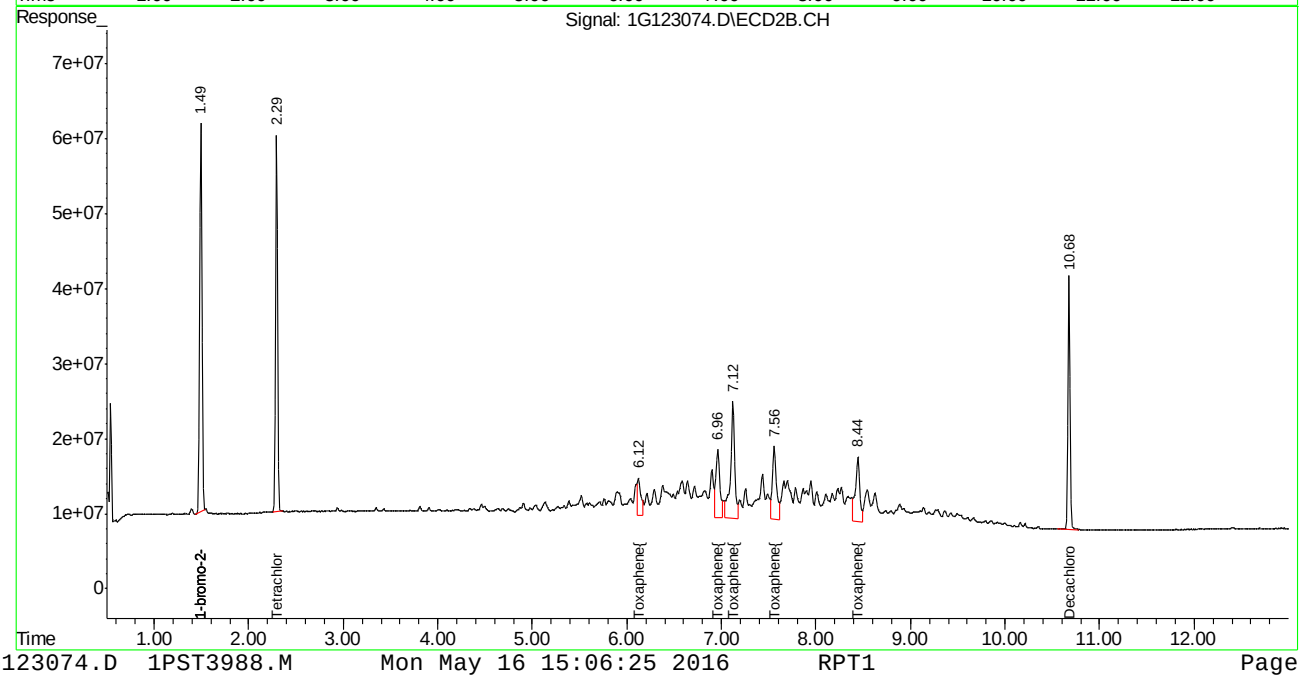
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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

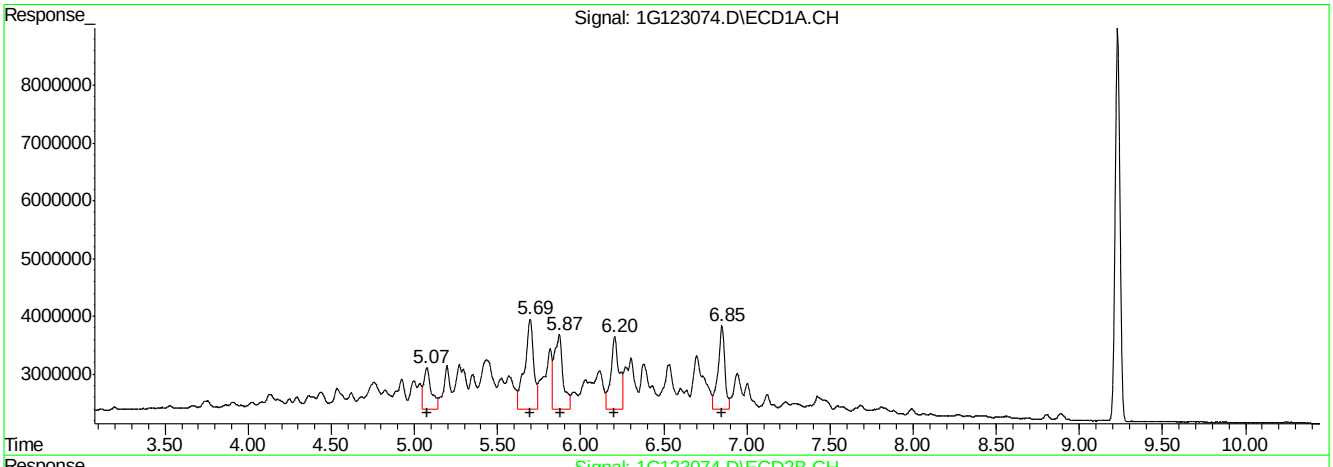
Sample Number:	G1G3988-ICV3988	**Method:**	SW846 8081B
Lab FileID:	1G123074.D	**Analyst approved:**	05/16/16 15:18 Dhara Saparia
Injection Time:	05/16/16 13:58	**Supervisor approved:**	05/16/16 17:43 Gwendolyn Burns

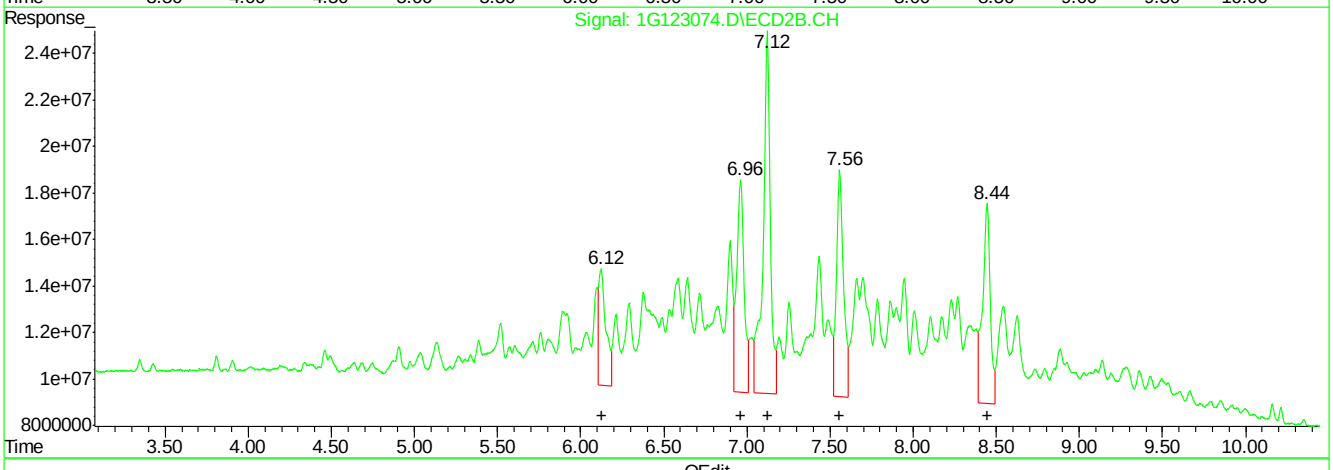
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	5.87	Poor instrument integration
Toxaphene-A		2	6.12	Poor instrument integration
Toxaphene-D		1	6.20	Poor instrument integration

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:04 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.07	23030714	563.79
5.70	58437381	501.76
5.87	46177996	736.18
6.20	43685039	610.37
6.85	40360721	489.52

(26) Toxaphene{A} #2 (L8)

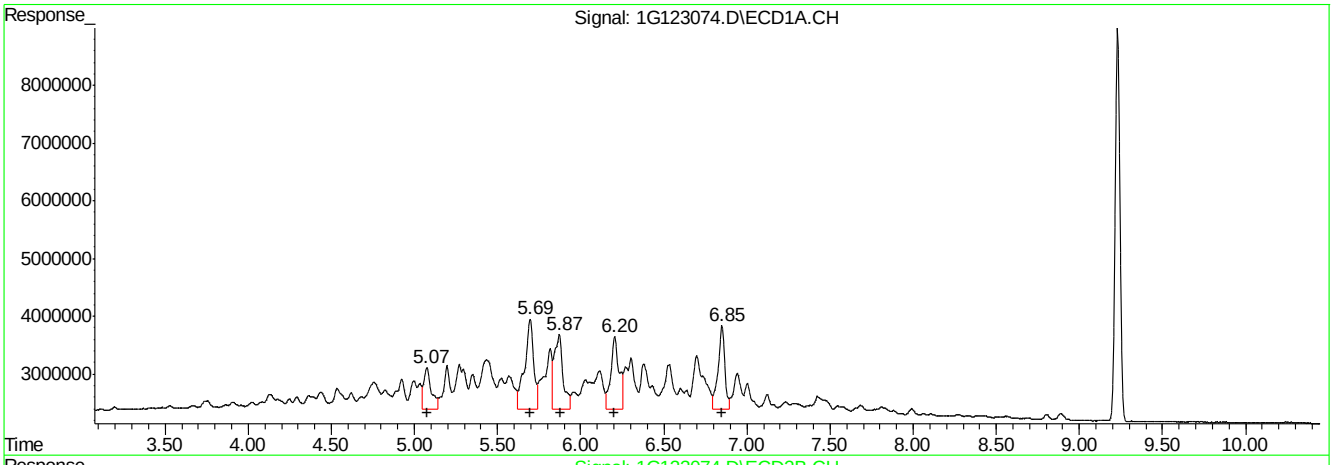
R.T.	Response	Conc
6.12	148449773	611.04
6.96	282709621	539.37
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

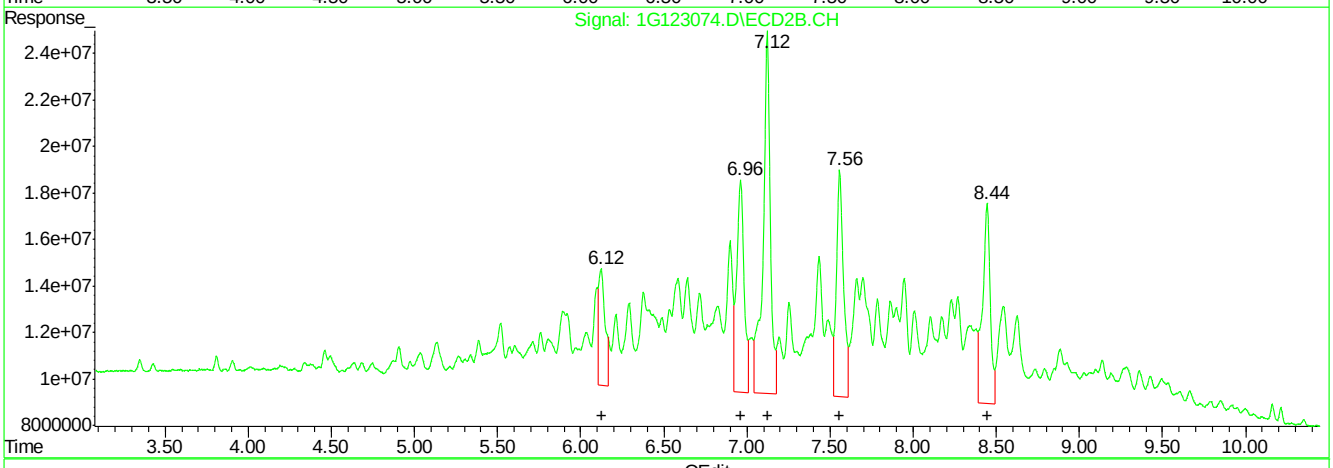
(+) = Expected Retention Time
1G123074.D 1PST3988.M Mon May 16 15:04:32 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:04 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
5.07	23030714	563.79
5.70	58437381	501.76
5.87	46177996	736.18
6.20	43685039	610.37
6.85	40360721	489.52

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.12	124663264	513.13
6.96	282709621	539.37
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

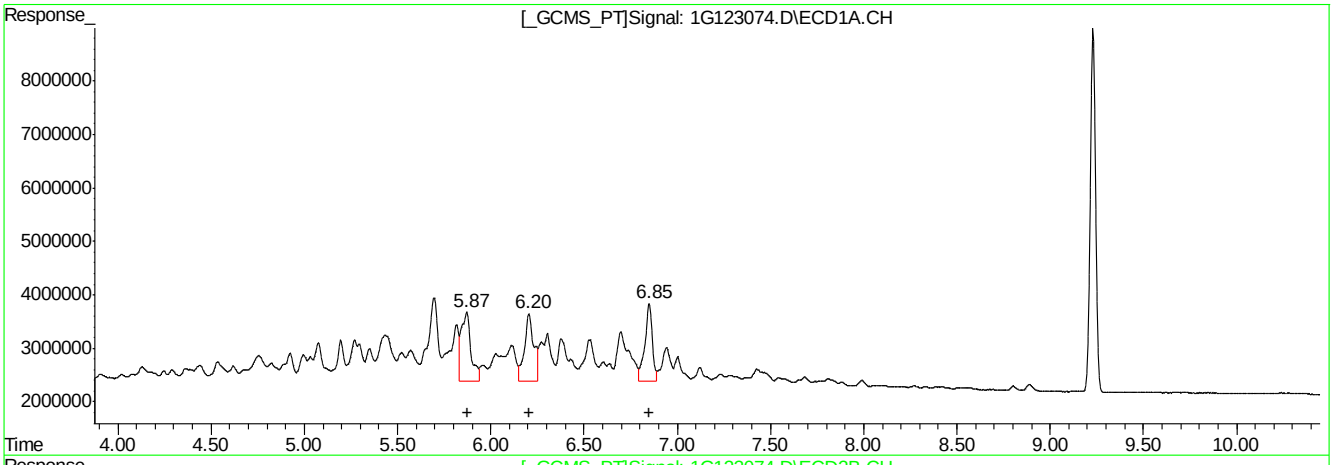
(+) = Expected Retention Time
1G123074.D 1PST3988.M Mon May 16 15:05:02 2016 RPT1

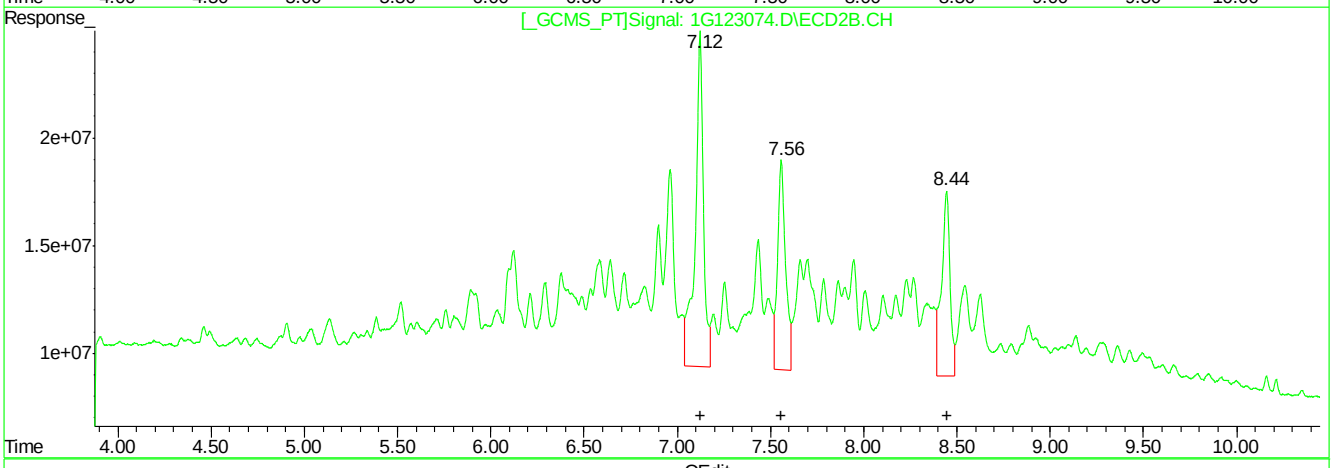
11.6.14.3 11

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 15:04 2016  Quant Results File: 1PST3988.RES


Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(28) Toxaphene{C} (L8)

R.T.	Response	Conc
5.87	46177996	736.18
6.20	43685039	610.37
6.85	40360721	489.52

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

(+) = Expected Retention Time

1G123074.D 1PST3988.M Mon May 16 15:05:12 2016 RPT1

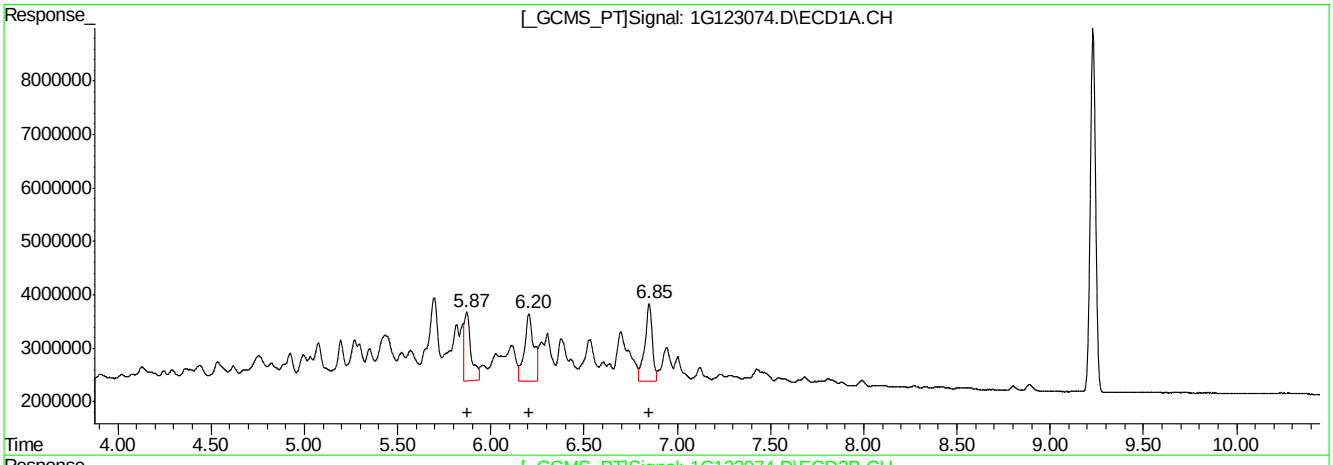
11.6.14.4

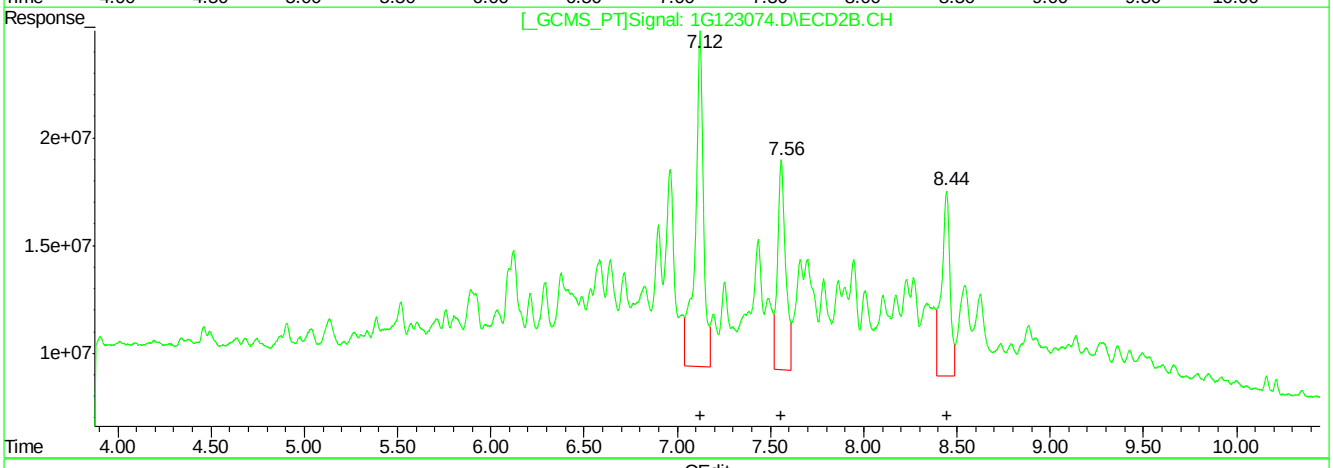
11

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:05 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(28) Toxaphene{C} (L8)

R.T.	Response	Conc
5.87	32628867	520.18
6.20	43685039	610.37
6.85	40360721	489.52

(28) Toxaphene{C} #2 (L8)

R.T.	Response	Conc
7.12	473281843	516.85
7.56	294865837	517.51
8.44	278967293	512.16

(+) = Expected Retention Time

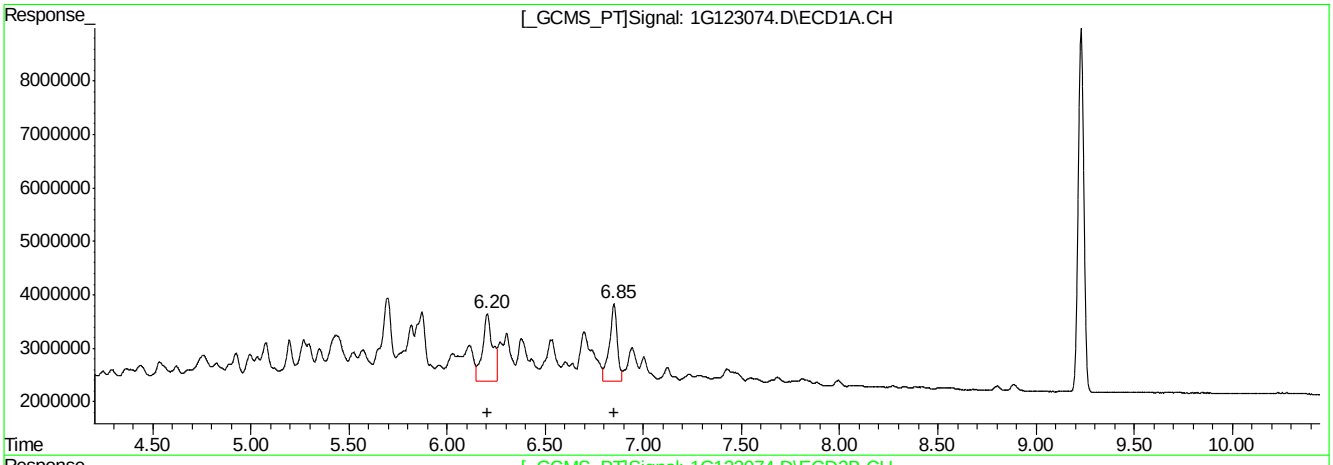
1G123074.D 1PST3988.M Mon May 16 15:05:57 2016 RPT1

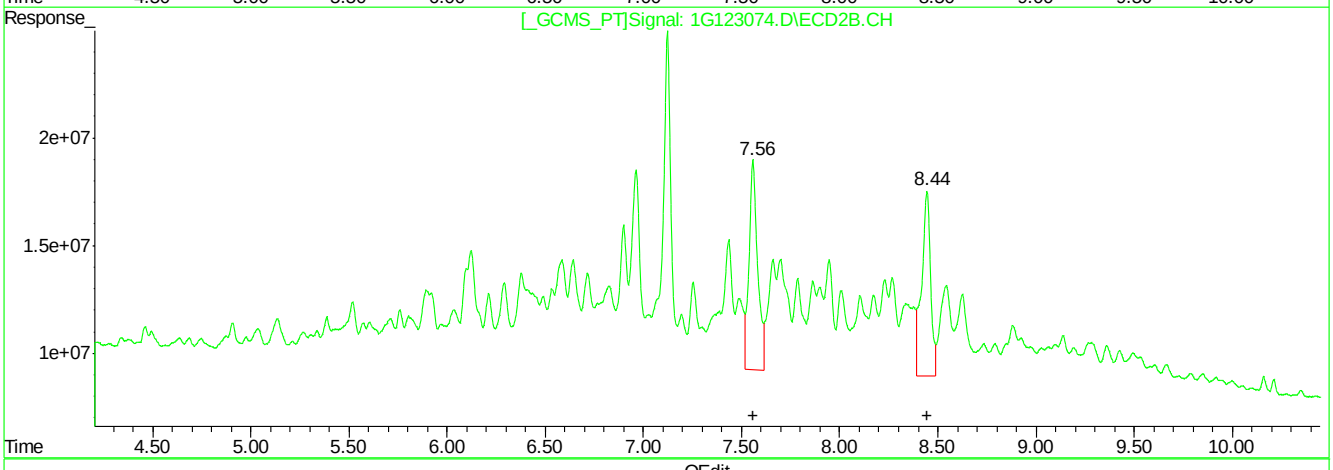
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

```
Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On    : 5-16-16 01:58:48 PM                      Operator: thomasl
Sample    : icv3988-500                              Inst    : GC1G
Misc      : op93854,g1g3988,930,,,10,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e     IntFile Signal #2: autoint2.e
Quant Time: May 16 15:05 2016  Quant Results File: 1PST3988.RES

Method       : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title        : PEST/PCB
Last Update  : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
```





QEdit

(29) Toxaphene{D} (L8)

R.T.	Response	Conc
6.20	43685039	610.37
6.85	40360721	489.52

(29) Toxaphene{D} #2 (L8)

R.T.	Response	Conc
7.56	294865837	517.51
8.44	278967293	512.16

(+) = Expected Retention Time

1G123074.D 1PST3988.M Mon May 16 15:06:01 2016 RPT1

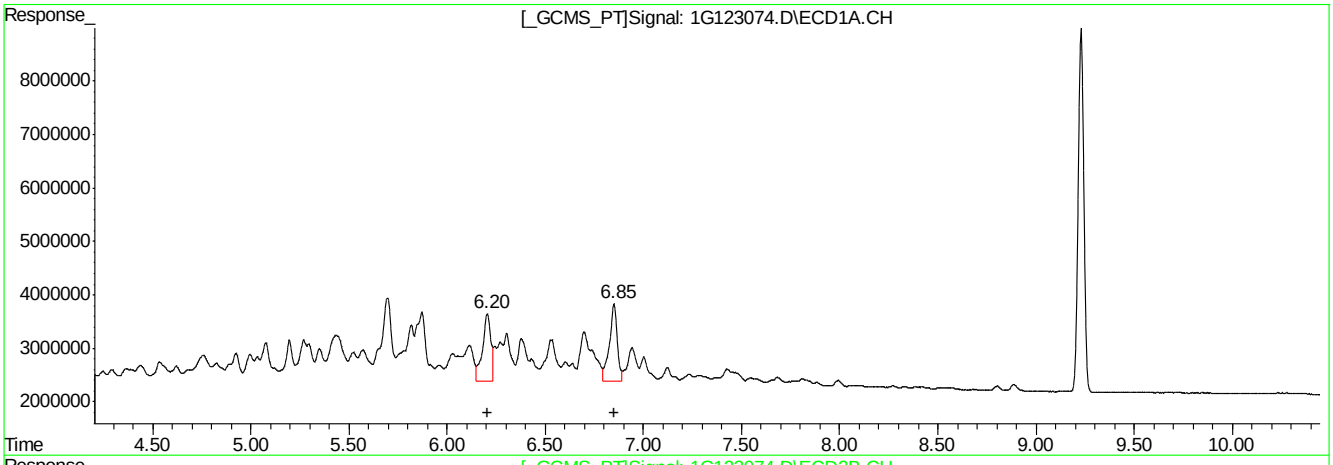
11.6.14.6

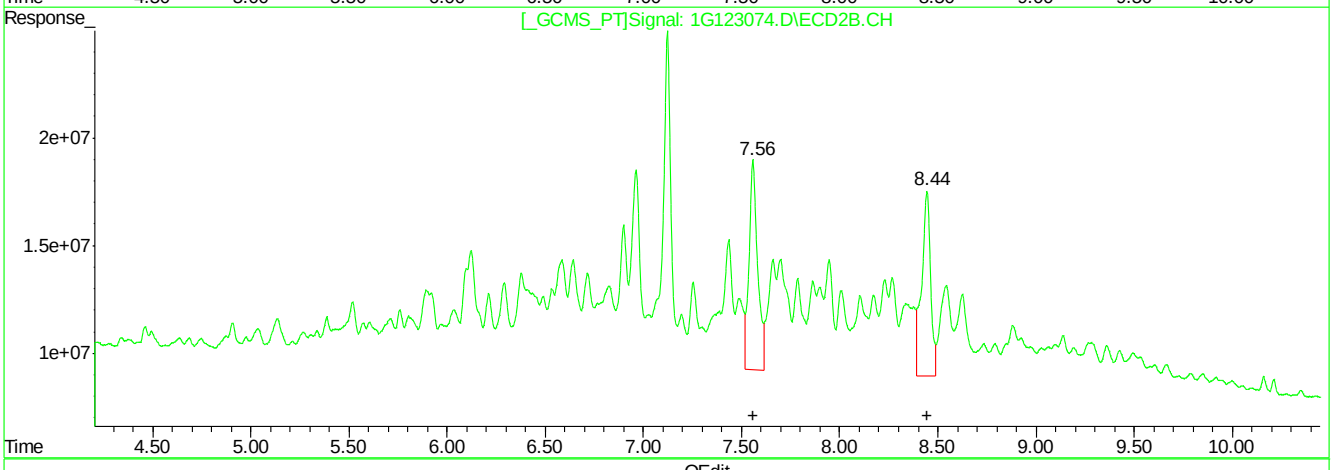
11

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD1A.CH Vial: 19
Signal #2 : C:\MSDCHEM\1\DATA\1G3988\1G123074.D\ECD2B.CH
Acq On : 5-16-16 01:58:48 PM Operator: thomasl
Sample : icv3988-500 Inst : GC1G
Misc : op93854,g1g3988,930,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 16 15:05 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration





QEdit

(29) Toxaphene{D} #2 (L8)

R.T.	Response	Conc
6.20	36980687	516.70
6.85	40360721	489.52

(29) Toxaphene{D} #2 (L8)

R.T.	Response	Conc
7.56	294865837	517.51
8.44	278967293	512.16

(+) = Expected Retention Time
1G123074.D 1PST3988.M Mon May 16 15:06:12 2016 RPT1

11.6.14.7 11

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/01/16 13:41

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD2B.CH
Acq On : 31 May 2016 10:35 am Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94251,g1g4000,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 10:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri May 27 17:35:14 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	187.6E6	1202.6E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	187.6E6	1202.6E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	187.6E6	1202.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.28	168.6E6	962.2E6	49.712	44.977
Spiked Amount	40.000 Range	30 - 150	Recovery	=		124.28%	112.44%
24) SA	Decachlorobiphen	9.22	10.63	204.9E6	748.0E6	44.439	49.767
Spiked Amount	40.000		Recovery	=		111.10%	124.42%
	Target Compounds						
3) A	alpha-BHC	2.40	2.92	243.3E6	1472.5E6	50.153	45.970
4) MA	gamma-BHC	2.70	3.33	226.9E6	1304.5E6	50.047	44.993
5) MA	Heptachlor	3.19	3.88	219.8E6	1191.4E6	47.645	44.024
6) B	beta-BHC	2.78	3.41	97206713	547.1E6	44.813	41.158
7) B	delta-BHC	2.96	3.79	209.7E6	1207.3E6	47.191	41.655
8) MB	Aldrin	3.52	4.31	214.0E6	1147.6E6	50.890	46.343
9) B	Heptachlor Epoxi	4.23	5.11	194.4E6	1061.2E6	46.919	47.902
10) B	gamma-Chlordane	4.39	5.39	199.3E6	1077.4E6	46.733	47.610
11) B	alpha-Chlordane	4.56	5.61	198.2E6	1035.8E6	46.840	46.225
12) A	Endosulfan I	4.74	5.70	193.9E6	996.8E6	47.632	48.232
13) B	4,4'-DDE	4.67	5.87	204.4E6	1073.1E6	47.921	48.280
14) MA	Dieldrin	5.06	6.12	210.2E6	1115.6E6	49.613	48.078
15) MA	Endrin	5.38	6.61	197.4E6	1013.5E6	51.397	49.628
16) A	4,4'-DDD	5.50	6.80	166.7E6	905.0E6	49.757	49.444
17) B	Endosulfan II	5.70	6.95	187.4E6	959.0E6	46.544	45.880
18) MA	4,4'-DDT	5.91	7.32	162.0E6	804.2E6	44.403	44.769m
19) B	Endrin Aldehyde	6.33	7.52	143.9E6	741.3E6	45.264	46.217
20) B	Endosulfan Sulfa	7.02	7.98	152.6E6	754.9E6	39.489	41.273
21) A	Methoxychlor	6.69	8.56	92106856	435.1E6	42.625	45.108
22)	Mirex	6.81	8.85	153.5E6	672.5E6	41.737	44.005
23) B	Endrin Ketone	7.44	8.92	153.6E6	749.9E6	35.113	36.572

(f)=RT Delta > 1/2 Window (m)=manual int.

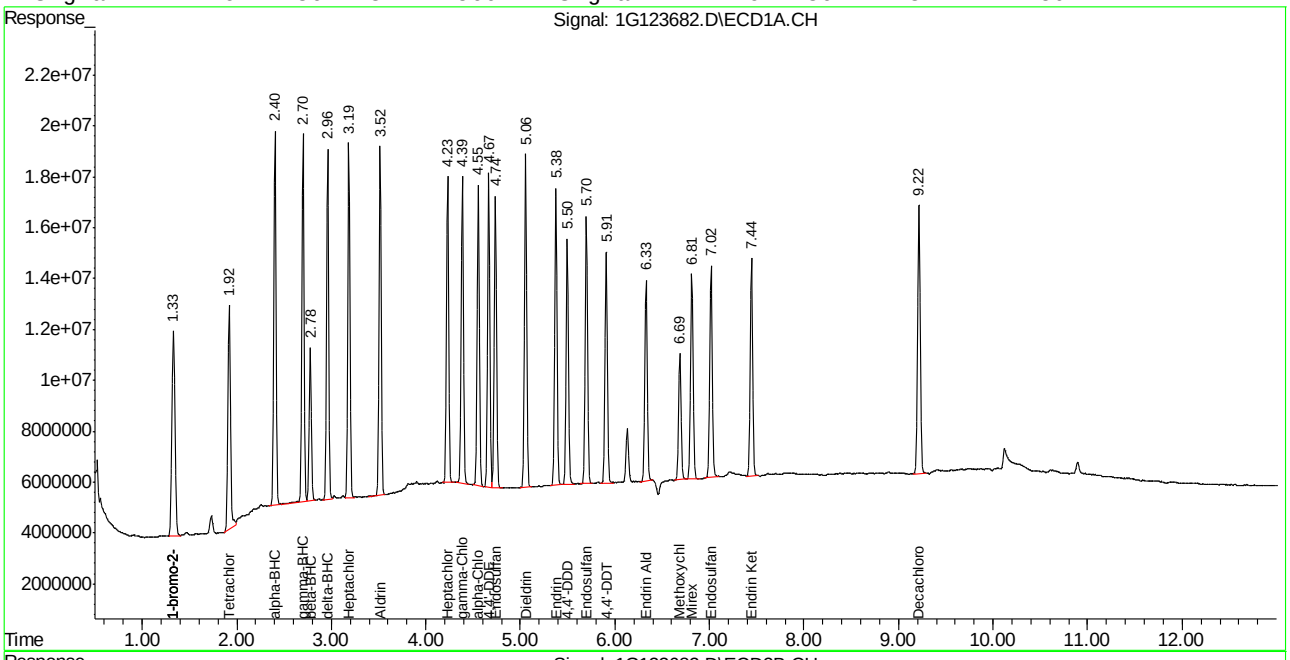
SGS ACCUTEST JC21229

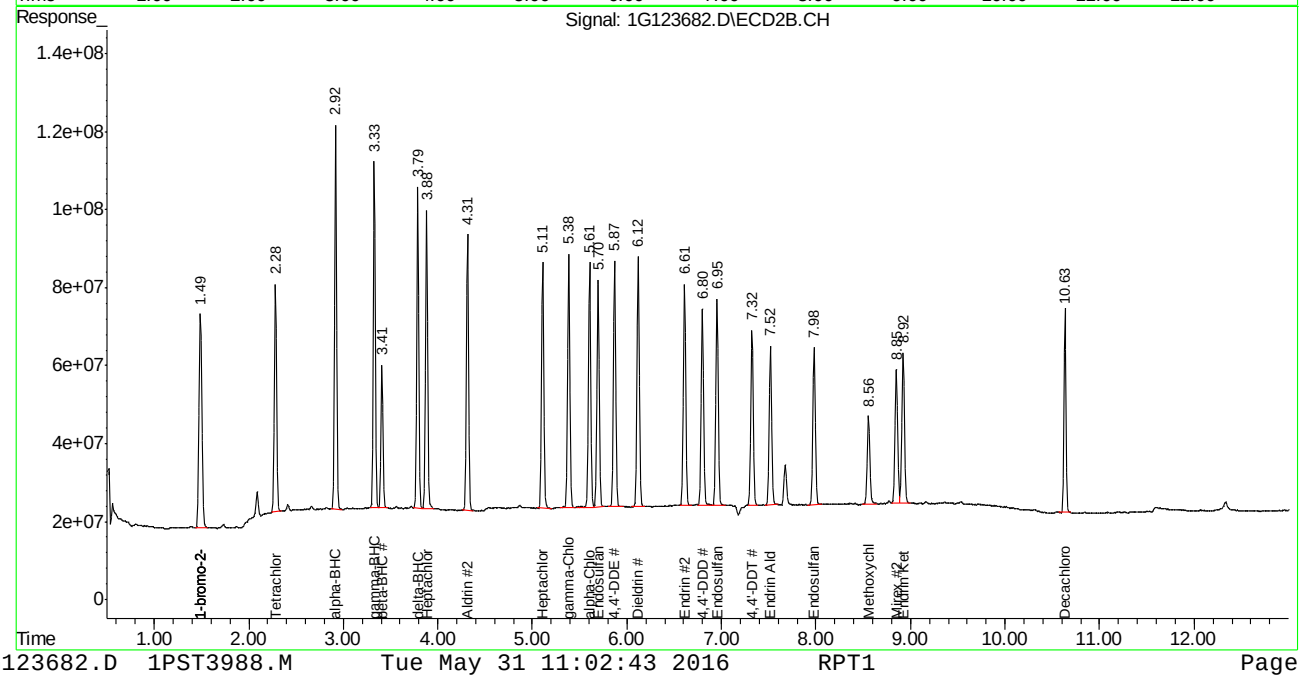
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD2B.CH
Acq On : 31 May 2016 10:35 am Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94251,g1g4000,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 10:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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

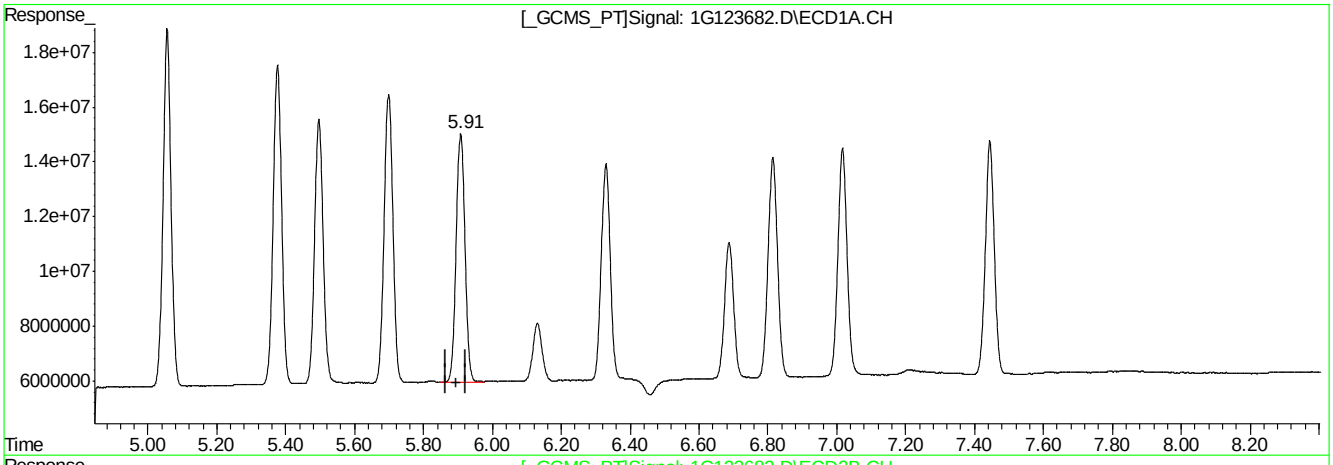
Sample Number:	G1G4000-CC3988	**Method:**	SW846 8081B
Lab FileID:	1G123682.D	**Analyst approved:**	05/31/16 12:46 Kristen Drake
Injection Time:	05/31/16 10:35	**Supervisor approved:**	06/01/16 13:41 Gwendolyn Burns

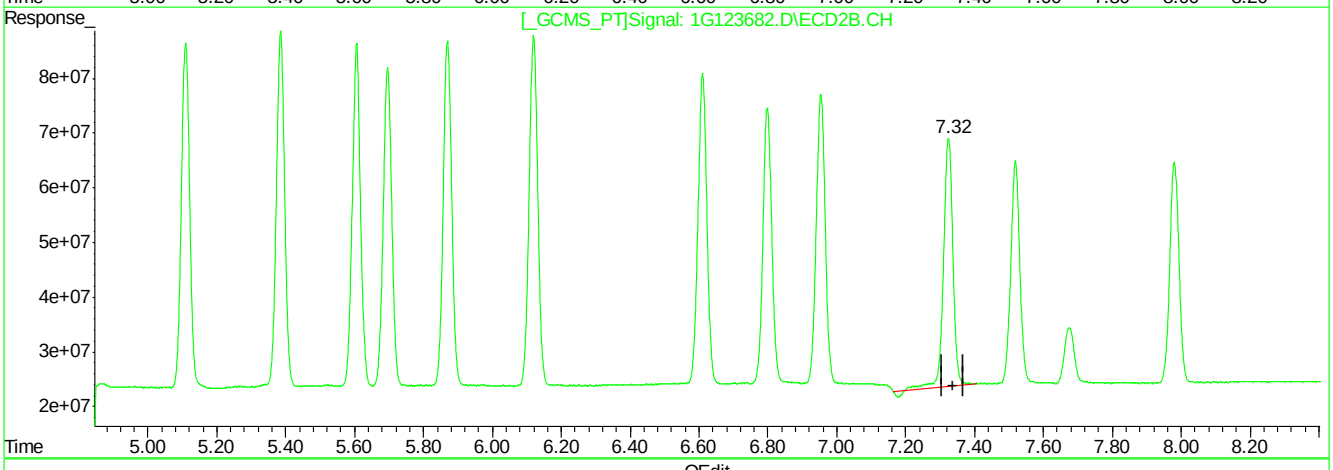
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	2	7.32	Poorly defined baseline

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD2B.CH
Acq On : 31 May 2016 10:35 am Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94251,g1g4000,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 10:55 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

5.91min 44.403PPB

response 162018614

(18) 4,4'-DDT #2 (MA)

7.32min 47.634PPB

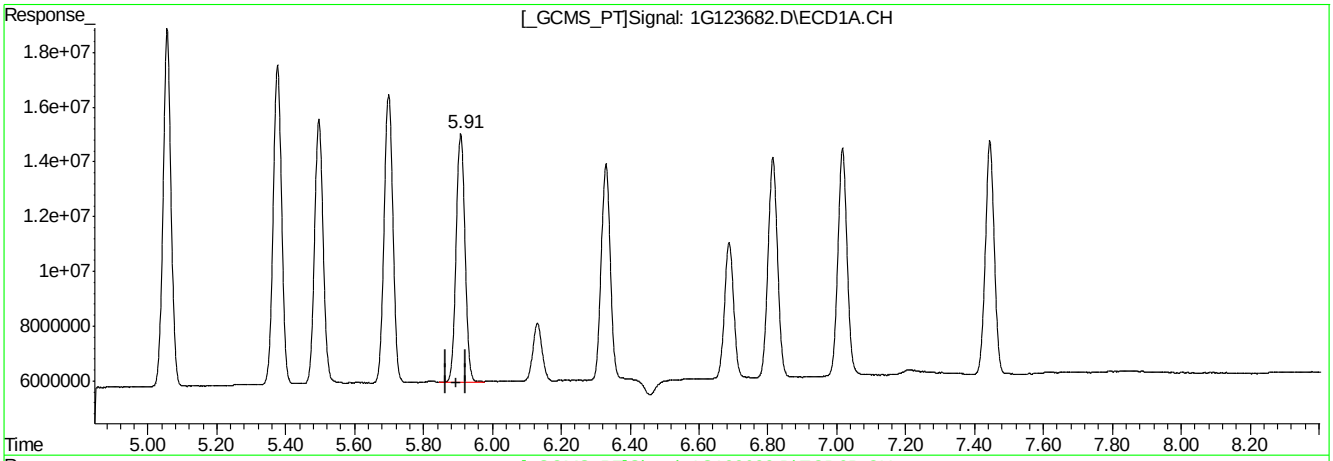
response 855632564

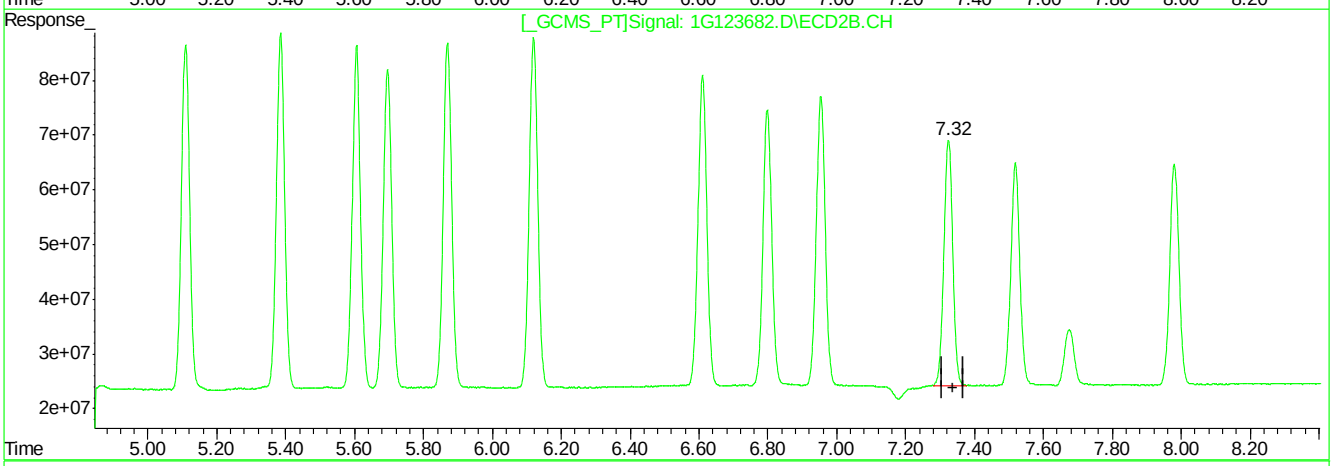
(+) = Expected Retention Time
1G123682.D 1PST3988.M Tue May 31 10:56:10 2016 RPT1

Quantitation Report (Qedit)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123682.D\ECD2B.CH
Acq On : 31 May 2016 10:35 am Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94251,g1g4000,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: May 31 10:55 2016 Quant Results File: 1PST3988.RES

Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Fri May 27 17:35:14 2016
Response via : Multiple Level Calibration





QEdit

(18) 4,4'-DDT (MA)

5.91min 44.403PPB

response 162018614

(18) 4,4'-DDT #2 (MA)

7.32min 44.769PPB m

response 804176417

(+) = Expected Retention Time
1G123682.D 1PST3988.M Tue May 31 10:56:20 2016 RPT1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123703.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123703.D\ECD2B.CH
Acq On : 5-31-16 06:48:03 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 9:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	140.1E6	937.3E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	140.1E6	937.3E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	140.1E6	937.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.91	2.28	59509677	384.3E6	23.505	23.045
Spiked Amount	40.000	Range	30 - 150	Recovery	=	58.76%	57.61%
24) SA	Decachlorobiphen	9.21	10.63	78572499	298.3E6	22.827	25.461
Spiked Amount	40.000			Recovery	=	57.07%	63.65%
	Target Compounds						
3) A	alpha-BHC	2.40	2.91	82828320	573.3E6	22.874	22.965
4) MA	gamma-BHC	2.69	3.33	77501152	519.5E6	22.903	22.990
5) MA	Heptachlor	3.18	3.88	80088816	492.7E6	23.252	23.359
6) B	beta-BHC	2.77	3.41	36096072	233.4E6	22.291	22.534
7) B	delta-BHC	2.96	3.79	75838937	518.0E6	22.859	22.930
8) MB	Aldrin	3.51	4.31	74289764	477.7E6	23.666	24.751
9) B	Heptachlor Epoxi	4.23	5.11	72815756	433.9E6	23.536	25.131
10) B	gamma-Chlordane	4.38	5.38	71709252	439.5E6	22.521	24.920
11) B	alpha-Chlordane	4.55	5.60	71876128	427.4E6	22.759	24.470
12) A	Endosulfan I	4.73	5.69	69711001	412.1E6	22.945	25.584
13) B	4,4'-DDE	4.66	5.87	71849666	426.6E6	22.568	24.628
14) MA	Dieldrin	5.05	6.12	73164319	449.3E6	23.127	24.841
15) MA	Endrin	5.37	6.61	69992965	418.1E6	24.407	26.270
16) A	4,4'-DDD	5.49	6.80	57442760	361.5E6	22.971	25.341
17) B	Endosulfan II	5.70	6.95	68463196	395.8E6	22.781	24.297
18) MA	4,4'-DDT	5.91	7.32	57374764	326.1E6	21.063	23.295
19) B	Endrin Aldehyde	6.33	7.52	54114848	317.0E6	22.795	25.362
20) B	Endosulfan Sulfa	7.01	7.98	61626604	341.6E6	21.359	23.961
21) A	Methoxychlor	6.69	8.56	35120528	178.1E6	21.771	23.692
22)	Mirex	6.81	8.85	59423384	287.9E6	21.648	24.169
23) B	Endrin Ketone	7.44	8.92	73110972	392.7E6	22.394	24.572

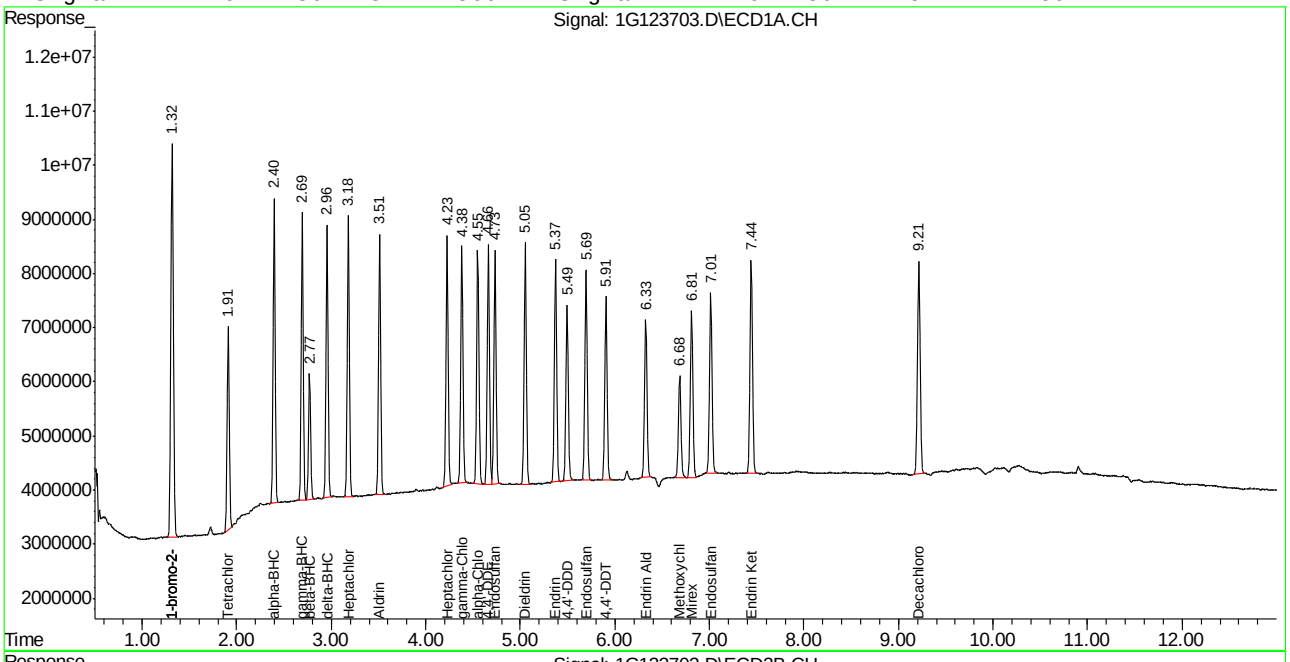
(f)=RT Delta > 1/2 Window (m)=manual int.

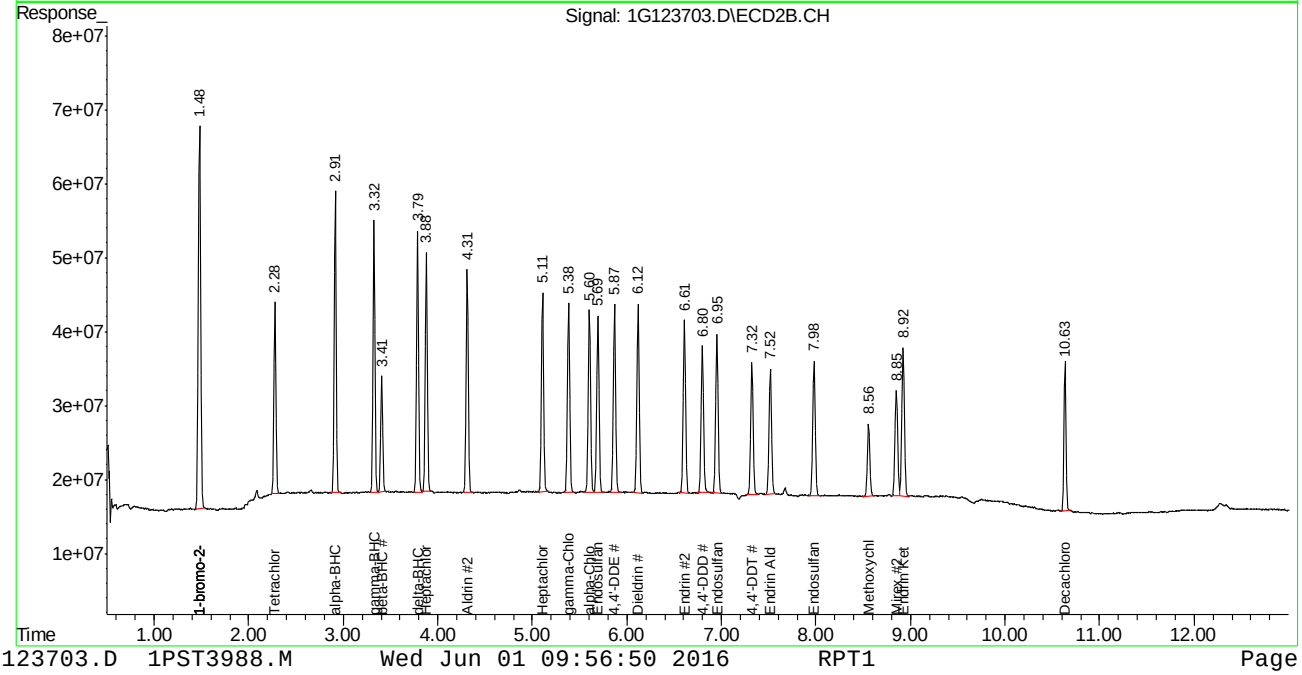
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4000\1G123703.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4000\1G123703.D\ECD2B.CH
Acq On : 5-31-16 06:48:03 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94349,g1g4000,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 9:56 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G4001\1G123723.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123723.D\ECD2B.CH
Acq On : 01 Jun 2016 10:00 am Operator: kristend
Sample : cc3988-50 Inst : GC1G
Misc : op94185,g1g4001,16.4,,,10,5 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 10:23 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	163.6E6	1062.8E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	163.6E6	1062.8E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	163.6E6	1062.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.91	2.28	146.7E6	886.5E6	49.612	46.888
Spiked Amount	40.000 Range	30 - 150	Recovery	=		124.03%	117.22%
24) SA	Decachlorobiphen	9.22	10.63	196.8E6	693.8E6	48.942	52.232
Spiked Amount	40.000		Recovery	=		122.35%	130.58%
	Target Compounds						
3) A	alpha-BHC	2.40	2.92	219.4E6	1367.4E6	51.868	48.304
4) MA	gamma-BHC	2.69	3.33	197.9E6	1208.2E6	50.087	47.153
5) MA	Heptachlor	3.18	3.88	200.7E6	1130.1E6	49.879	47.251
6) B	beta-BHC	2.77	3.41	85944273	513.8E6	45.443	43.740
7) B	delta-BHC	2.96	3.79	197.7E6	1217.6E6	51.030	47.534
8) MB	Aldrin	3.51	4.31	189.2E6	1072.9E6	51.606	49.025
9) B	Heptachlor Epoxi	4.23	5.11	174.8E6	978.5E6	48.380	49.981
10) B	gamma-Chlordane	4.38	5.39	174.6E6	999.7E6	46.942	49.989
11) B	alpha-Chlordane	4.55	5.61	177.0E6	973.5E6	47.977	49.156
12) A	Endosulfan I	4.73	5.70	175.5E6	937.1E6	49.471	51.304
13) B	4,4'-DDE	4.66	5.87	179.5E6	987.3E6	48.273	50.258
14) MA	Dieldrin	5.05	6.12	189.2E6	1049.4E6	51.211	51.174
15) MA	Endrin	5.37	6.61	180.2E6	974.6E6	53.806	53.997
16) A	4,4'-DDD	5.49	6.80	146.5E6	845.6E6	50.168	52.275
17) B	Endosulfan II	5.70	6.95	176.0E6	928.8E6	50.158	50.276
18) MA	4,4'-DDT	5.91	7.32	154.4E6	812.2E6	48.542	51.163
19) B	Endrin Aldehyde	6.33	7.52	136.9E6	734.0E6	49.390	51.783
20) B	Endosulfan Sulfa	7.01	7.98	162.3E6	834.4E6	48.154	51.617
21) A	Methoxychlor	6.69	8.56	88968511	436.6E6	47.222	51.217
22)	Mirex	6.81	8.85	147.6E6	680.1E6	46.049	50.351
23) B	Endrin Ketone	7.44	8.92	188.9E6	930.3E6	49.543	51.339

(f)=RT Delta > 1/2 Window (m)=manual int.
1G123723.D 1PST3988.M Wed Jun 01 14:23:02 2016 RPT1 Page 1

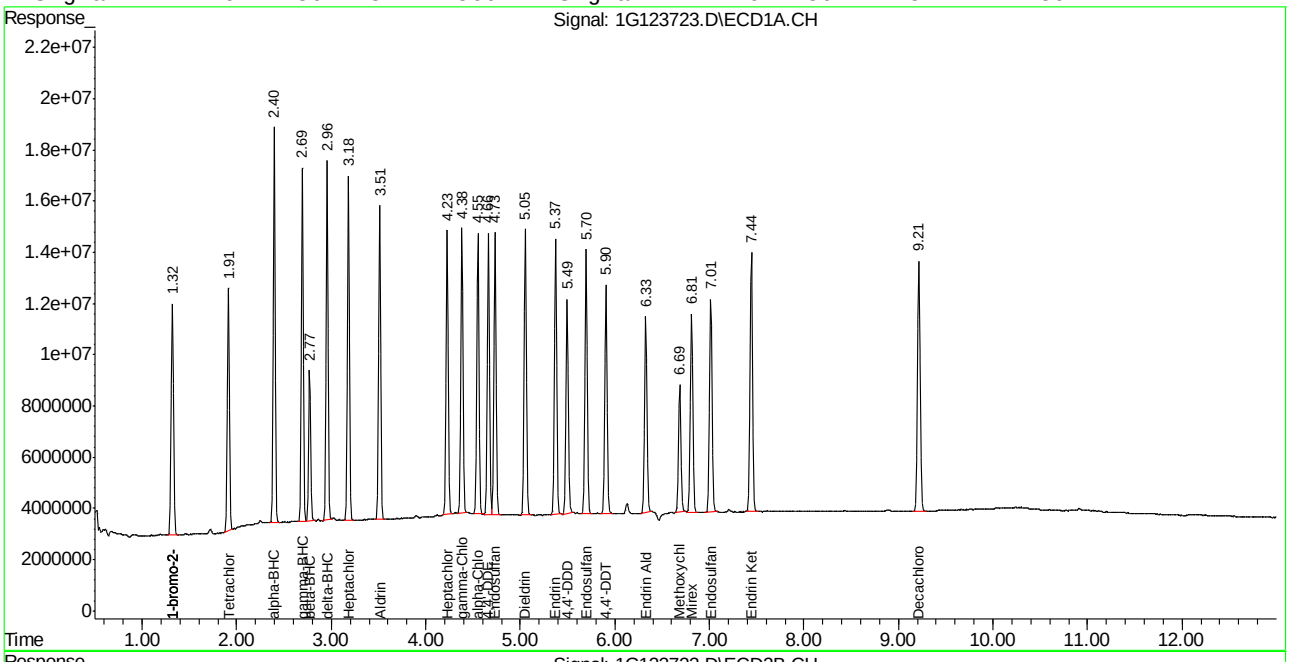
11.6.17 11

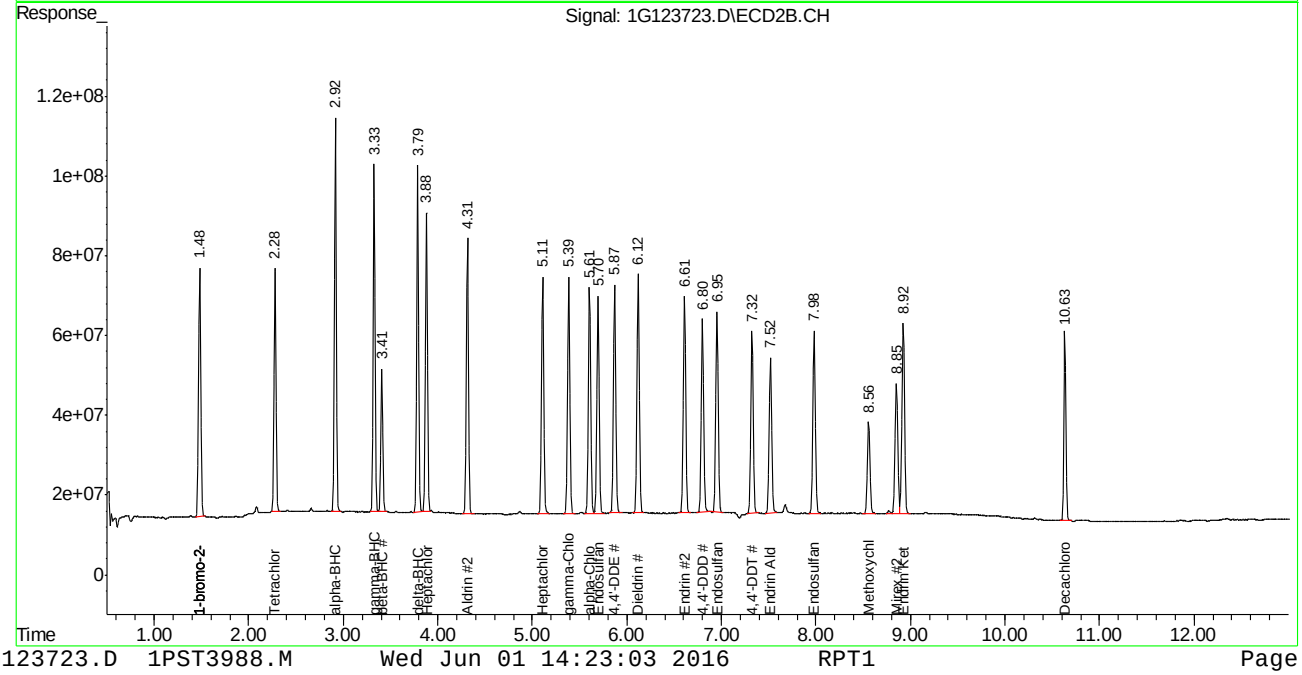
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123723.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123723.D\ECD2B.CH
Acq On : 01 Jun 2016 10:00 am Operator: kristend
Sample : cc3988-50 Inst : GC1G
Misc : op94185,g1g4001,16.4,,,10,5 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 10:23 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Tue May 31 13:48:29 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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





1G123723.D 1PST3988.M Wed Jun 01 14:23:03 2016 RPT1 Page 2

11.6.17 11

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123744.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123744.D\ECD2B.CH
Acq On : 6-1-16 06:23:32 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94349,g1g4001,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 18:38 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.32	1.48	165.6E6	1084.1E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.32	1.48	165.6E6	1084.1E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.32	1.48	165.6E6	1084.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.28	71995936	475.9E6	24.059	24.678
Spiked Amount	40.000	Range	30 - 150	Recovery	=	60.15%	61.70%
24) SA	Decachlorobiphen	9.23	10.64	98750268	360.5E6	24.273	26.608
Spiked Amount	40.000			Recovery	=	60.68%	66.52%
	Target Compounds						
3) A	alpha-BHC	2.40	2.92	102.5E6	705.9E6	23.944	24.445
4) MA	gamma-BHC	2.70	3.33	96228652	636.0E6	24.060	24.332
5) MA	Heptachlor	3.19	3.88	98579029	613.6E6	24.215	25.151
6) B	beta-BHC	2.78	3.41	44362838	286.0E6	23.179	23.867
7) B	delta-BHC	2.96	3.79	92841465	635.7E6	23.676	24.328
8) MB	Aldrin	3.52	4.31	90733851	573.5E6	24.455	25.690
9) B	Heptachlor Epoxi	4.23	5.11	87333101	520.5E6	23.883	26.063
10) B	gamma-Chlordane	4.39	5.39	85964721	523.2E6	22.842	25.647
11) B	alpha-Chlordane	4.56	5.61	86182323	507.4E6	23.089	25.120
12) A	Endosulfan I	4.74	5.70	84691996	487.7E6	23.584	26.178
13) B	4,4'-DDE	4.67	5.87	86014604	505.4E6	22.858	25.223
14) MA	Dieldrin	5.06	6.12	89035072	534.6E6	23.811	25.557
15) MA	Endrin	5.38	6.61	85409733	497.4E6	25.198	27.018
16) A	4,4'-DDD	5.50	6.80	68306452	432.3E6	23.111	26.201
17) B	Endosulfan II	5.70	6.96	84104168	473.0E6	23.678	25.101
18) MA	4,4'-DDT	5.91	7.33	72405061	407.9E6	22.489	25.191
19) B	Endrin Aldehyde	6.34	7.52	66385187	377.3E6	23.659	26.094
20) B	Endosulfan Sulfa	7.02	7.98	78529588	430.1E6	23.027	26.081
21) A	Methoxychlor	6.70	8.56	44257937	222.7E6	23.212	25.609
22)	Mirex	6.82	8.86	75027536	354.5E6	23.125	25.729
23) B	Endrin Ketone	7.45	8.93	91118168	480.8E6	23.613	26.012

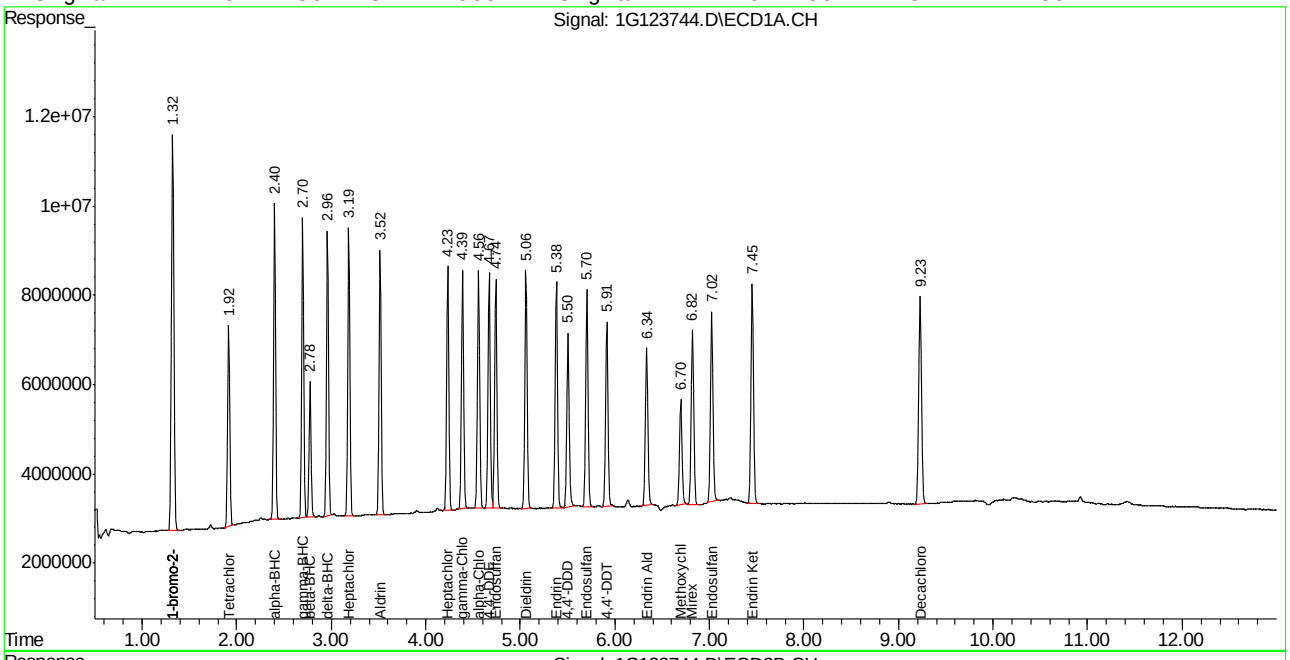
(f)=RT Delta > 1/2 Window (m)=manual int.

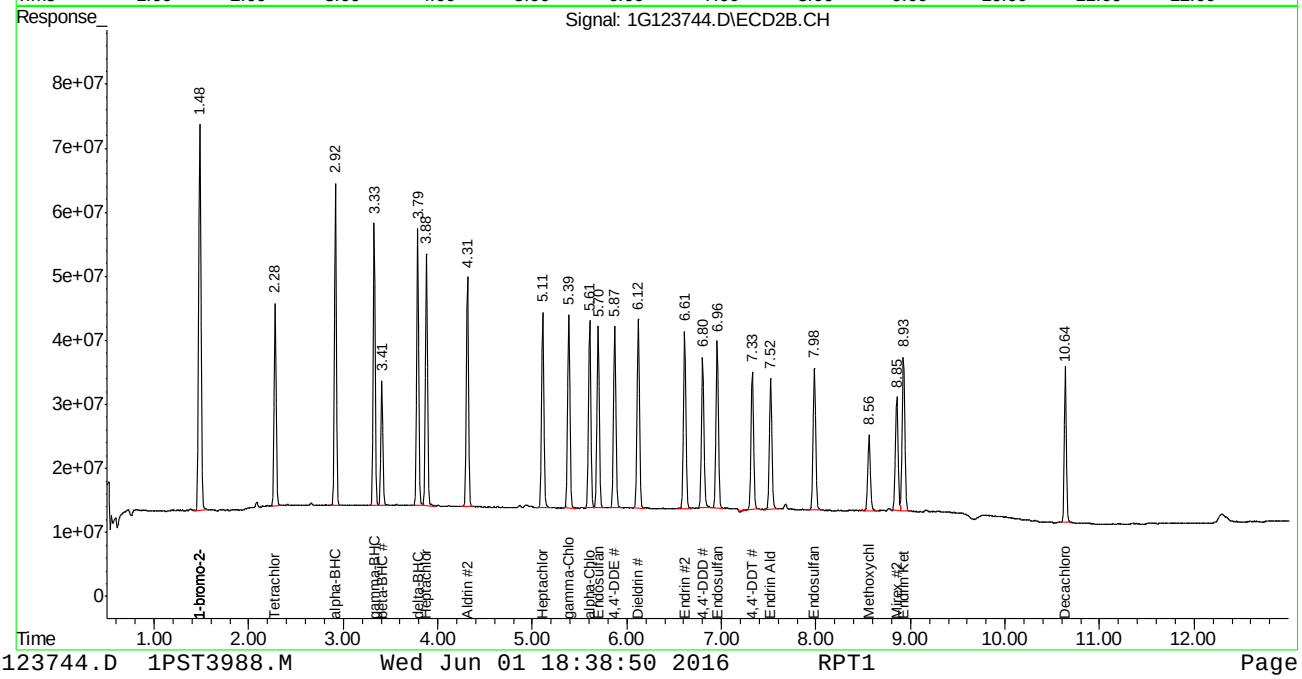
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4001\1G123744.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4001\1G123744.D\ECD2B.CH
Acq On : 6-1-16 06:23:32 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94349,g1g4001,1000,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 1 18:38 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Wed Jun 01 14:17:57 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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\1G4002\1G123784.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4002\1G123784.D\ECD2B.CH
Acq On : 6-2-16 01:18:28 PM Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94273,g1g4002,15.3,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 2 18:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	140.9E6	955.8E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	140.9E6	955.8E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	140.9E6	955.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.93	2.29	116.4E6	723.1E6	45.720	42.527
Spiked Amount	40.000 Range	30 - 150		Recovery	=	114.30%	106.32%
24) SA	Decachlorobiphen	9.22	10.66	170.9E6	585.8E6	49.364	49.040
Spiked Amount	40.000			Recovery	=	123.41%	122.60%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	177.2E6	1112.4E6	48.654	43.695
4) MA	gamma-BHC	2.71	3.34	163.5E6	974.5E6	48.033	42.292
5) MA	Heptachlor	3.20	3.89	166.1E6	911.5E6	47.963	42.379
6) B	beta-BHC	2.78	3.42	71518908	416.9E6	43.916	39.463
7) B	delta-BHC	2.97	3.80	158.9E6	935.9E6	47.625	40.625
8) MB	Aldrin	3.53	4.32	155.5E6	864.5E6	49.249	43.928
9) B	Heptachlor Epoxi	4.24	5.12	149.2E6	809.6E6	47.955	45.983
10) B	gamma-Chlordane	4.39	5.40	151.4E6	829.9E6	47.278	46.146
11) B	alpha-Chlordane	4.56	5.62	151.7E6	810.8E6	47.774	45.524
12) A	Endosulfan I	4.74	5.71	148.7E6	777.9E6	48.661	47.359
13) B	4,4'-DDE	4.68	5.88	156.1E6	835.4E6	48.741	47.288
14) MA	Dieldrin	5.06	6.13	160.5E6	877.7E6	50.439	47.590
15) MA	Endrin	5.38	6.62	153.6E6	822.0E6	53.262	50.645
16) A	4,4'-DDD	5.51	6.81	127.4E6	706.8E6	50.663	48.589
17) B	Endosulfan II	5.71	6.97	149.8E6	776.1E6	49.570	46.713
18) MA	4,4'-DDT	5.92	7.34	129.9E6	675.4E6	47.426	47.307
19) B	Endrin Aldehyde	6.34	7.53	114.8E6	603.4E6	48.099	47.335
20) B	Endosulfan Sulfa	7.02	8.00	133.5E6	686.2E6	46.014	47.204
21) A	Methoxychlor	6.69	8.58	77180218	378.2E6	47.573	49.334
22)	Mirex	6.82	8.87	126.9E6	567.7E6	45.971	46.742
23) B	Endrin Ketone	7.45	8.94	148.3E6	736.3E6	45.156	45.181

(f)=RT Delta > 1/2 Window (m)=manual int.

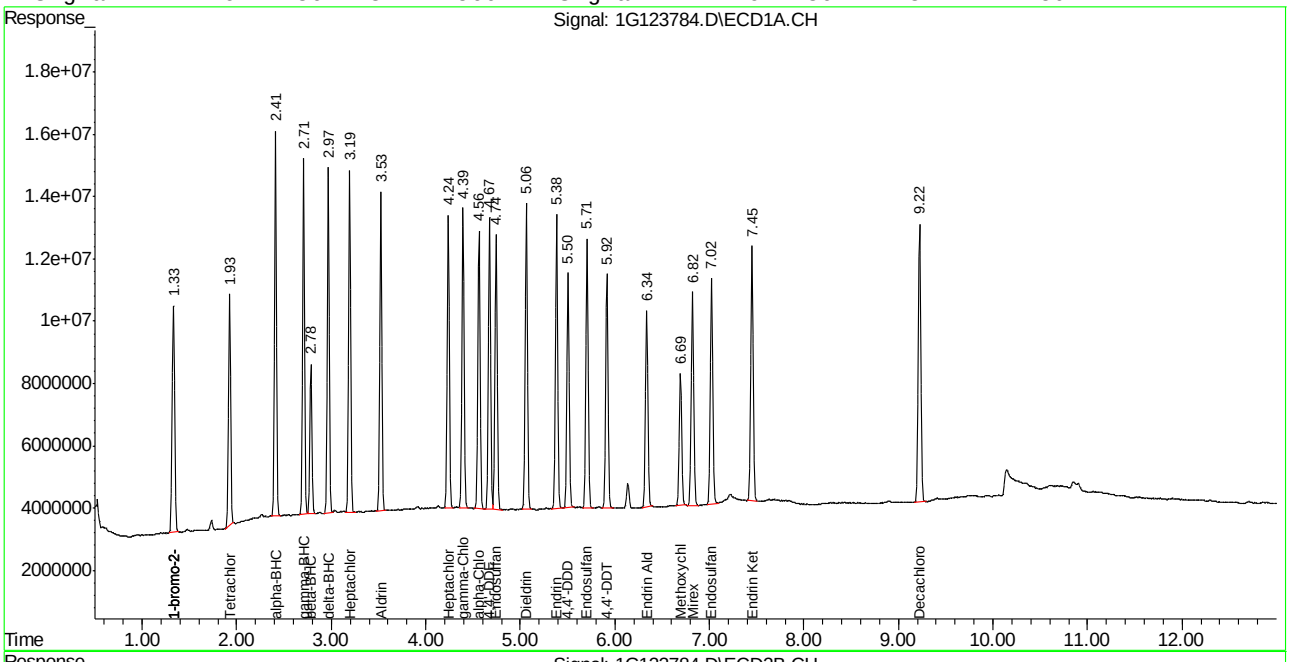
SGS ACCUTEST JC21229

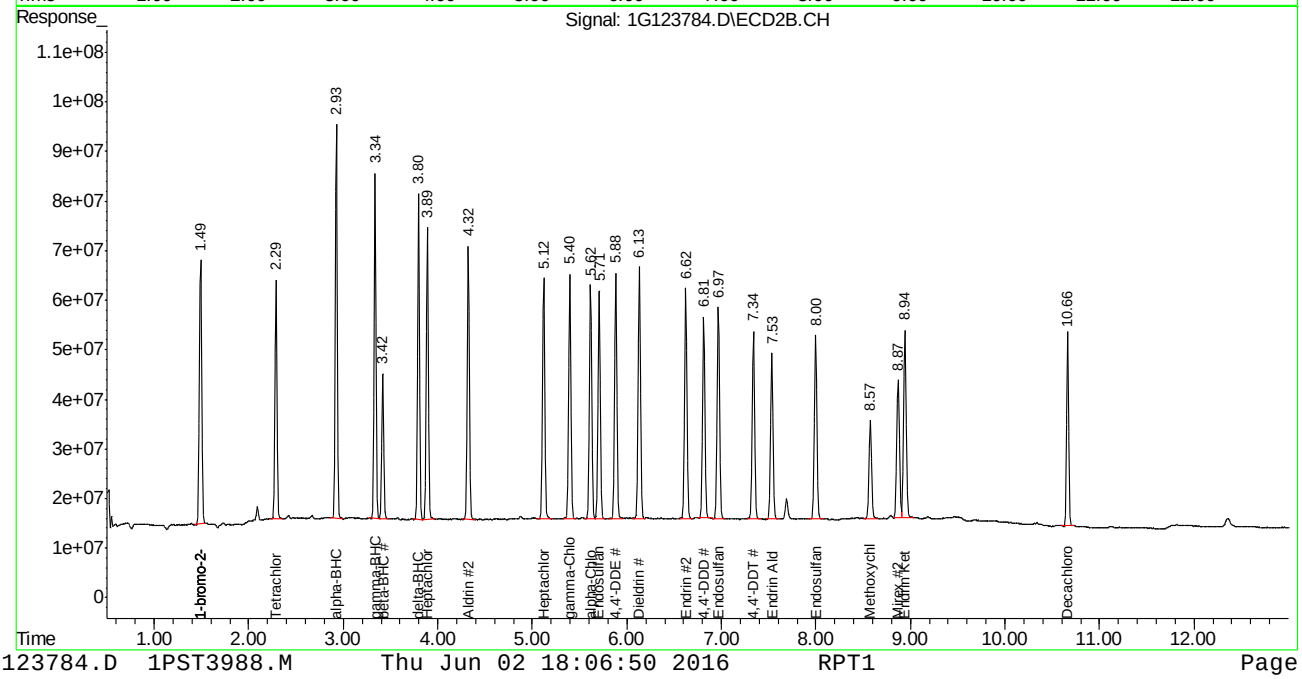
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4002\1G123784.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4002\1G123784.D\ECD2B.CH
Acq On : 6-2-16 01:18:28 PM Operator: dharas
Sample : cc3988-50 Inst : GC1G
Misc : op94273,g1g4002,15.3,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 2 18:06 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD2B.CH
Acq On : 6-3-16 09:57:04 AM Operator: kristend
Sample : cc3988-50 Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	166.3E6	1113.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	166.3E6	1113.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	166.3E6	1113.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	146.3E6	867.1E6	48.671	43.763
Spiked Amount	40.000	Range	30 - 150	Recovery	=	121.68%	109.41%
24) SA	Decachlorobiphen	9.21	10.66	191.4E6	672.4E6	46.844	48.302
Spiked Amount	40.000			Recovery	=	117.11%	120.76%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	216.9E6	1359.3E6	50.442	45.824
4) MA	gamma-BHC	2.70	3.34	196.2E6	1209.1E6	48.835	45.030
5) MA	Heptachlor	3.19	3.89	200.9E6	1139.1E6	49.125	45.454
6) B	beta-BHC	2.78	3.42	84567695	514.0E6	43.986	41.752
7) B	delta-BHC	2.97	3.80	184.4E6	1145.1E6	46.818	42.661
8) MB	Aldrin	3.52	4.33	190.3E6	1081.7E6	51.054	47.168
9) B	Heptachlor Epoxi	4.23	5.12	174.2E6	975.8E6	47.423	47.566
10) B	gamma-Chlordane	4.39	5.40	174.7E6	993.5E6	46.215	47.405
11) B	alpha-Chlordane	4.56	5.62	176.1E6	956.7E6	46.966	46.102
12) A	Endosulfan I	4.74	5.71	174.0E6	918.5E6	48.227	47.986
13) B	4,4'-DDE	4.67	5.89	178.4E6	976.1E6	47.185	47.420
14) MA	Dieldrin	5.06	6.14	186.3E6	1033.3E6	49.607	48.085
15) MA	Endrin	5.38	6.63	178.3E6	963.9E6	52.362	50.967
16) A	4,4'-DDD	5.50	6.82	142.7E6	824.7E6	48.081	48.653
17) B	Endosulfan II	5.70	6.97	170.4E6	899.2E6	47.764	46.449
18) MA	4,4'-DDT	5.91	7.34	149.6E6	780.5E6	46.249	46.919
19) B	Endrin Aldehyde	6.33	7.54	131.7E6	701.3E6	46.728	47.211
20) B	Endosulfan Sulfa	7.02	8.00	152.9E6	773.3E6	44.627	45.653
21) A	Methoxychlor	6.69	8.58	86023919	415.4E6	44.914	46.505
22)	Mirex	6.81	8.87	142.9E6	646.4E6	43.849	45.675
23) B	Endrin Ketone	7.44	8.94	165.9E6	821.5E6	42.803	43.263

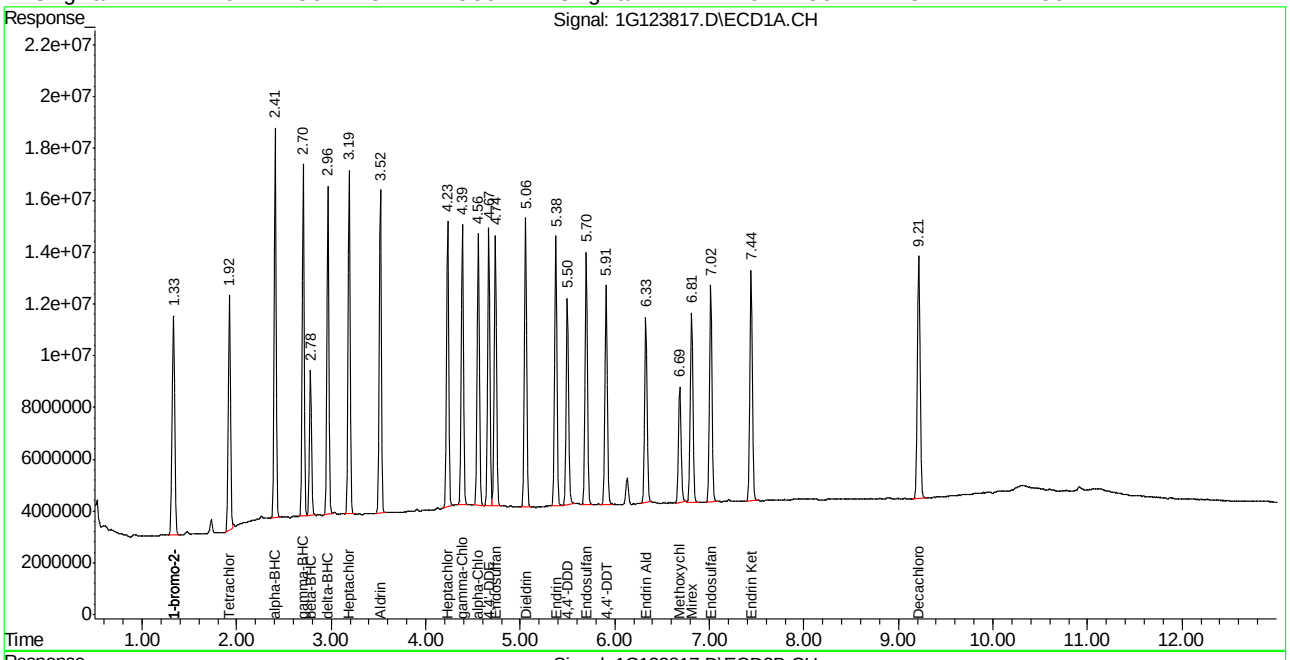
(f)=RT Delta > 1/2 Window (m)=manual int.
1G123817.D 1PST3988.M Fri Jun 03 10:25:33 2016 RPT1 Page 1

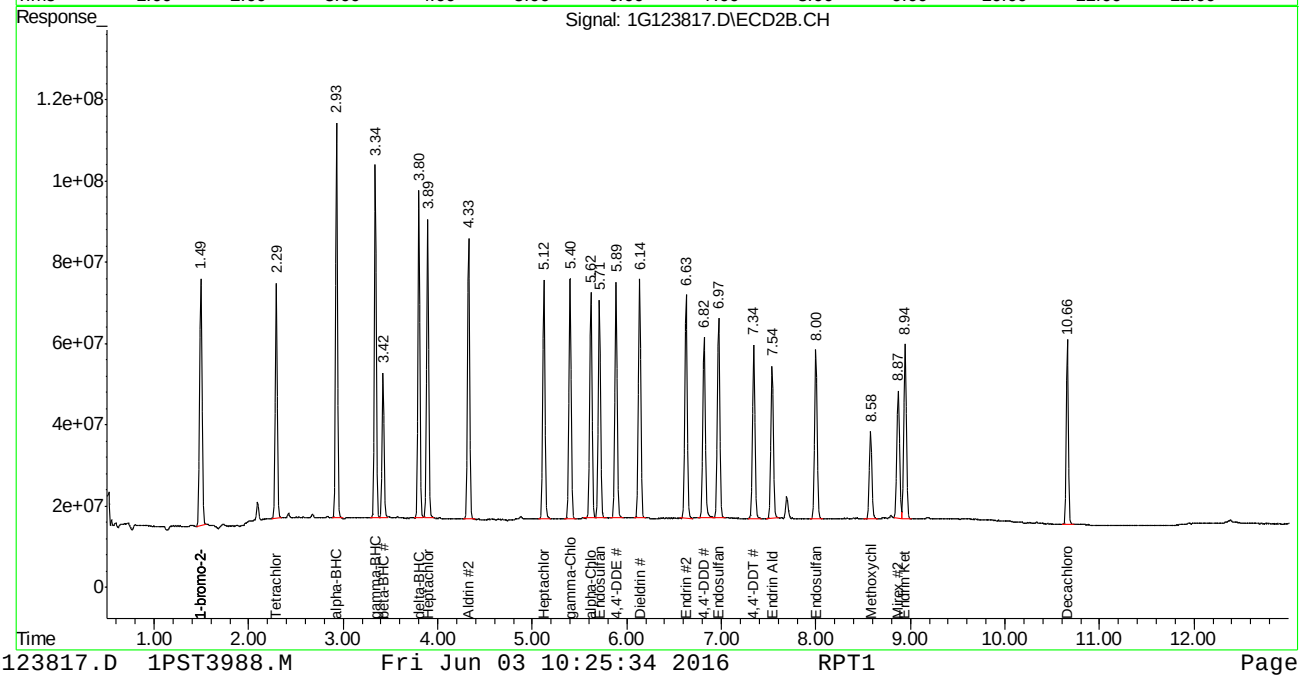
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD1A.CH Vial: 4
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123817.D\ECD2B.CH
Acq On : 6-3-16 09:57:04 AM Operator: kristend
Sample : cc3988-50 Inst : GC1G
Misc : op94273,g1g4003,16.9,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 10:25 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Mon May 16 13:30:31 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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





11.6.20 11
SGS 1092 of 1289 ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD2B.CH
Acq On : 6-3-16 05:45:48 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94273,g1g4003,16.4,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:59 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : 1PST3988.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	1.33	1.49	162.3E6	1084.7E6	50.000	50.000
25) I	1-bromo-2-nitrob	1.33	1.49	162.3E6	1084.7E6	50.000	50.000
31) I	1-bromo-2-nitrob	1.33	1.49	162.3E6	1084.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachloro-m-xy	1.92	2.29	73897514	448.3E6	25.186	23.232
Spiked Amount	40.000 Range	30 - 150	Recovery	=		62.97%	58.08%
24) SA	Decachlorobiphen	9.21	10.66	92817469	280.8E6	23.269	20.716
Spiked Amount	40.000		Recovery	=		58.17%	51.79%
	Target Compounds						
3) A	alpha-BHC	2.41	2.93	107.8E6	704.2E6	25.678	24.376
4) MA	gamma-BHC	2.70	3.34	99187912	632.9E6	25.294	24.201
5) MA	Heptachlor	3.19	3.89	102.8E6	603.2E6	25.766	24.714
6) B	beta-BHC	2.78	3.42	45183633	281.0E6	24.077	23.437
7) B	delta-BHC	2.96	3.80	96619544	619.0E6	25.130	23.678
8) MB	Aldrin	3.52	4.33	95515639	566.2E6	26.256	25.349
9) B	Heptachlor Epoxi	4.23	5.12	88345947	501.8E6	24.641	25.115
10) B	gamma-Chlordane	4.39	5.40	88669024	513.1E6	24.030	25.138
11) B	alpha-Chlordane	4.56	5.62	89942272	497.4E6	24.576	24.610
12) A	Endosulfan I	4.74	5.71	87912758	473.6E6	24.969	25.405
13) B	4,4'-DDE	4.67	5.89	91235940	500.5E6	24.728	24.966
14) MA	Dieldrin	5.05	6.14	92977885	522.0E6	25.361	24.942
15) MA	Endrin	5.38	6.63	89131608	494.0E6	26.820	26.819
16) A	4,4'-DDD	5.50	6.82	74655803	438.5E6	25.762	26.561
17) B	Endosulfan II	5.70	6.97	87248600	461.0E6	25.052	24.449
18) MA	4,4'-DDT	5.91	7.34	72420785	374.2E6	22.942	23.097
19) B	Endrin Aldehyde	6.33	7.54	69183730	359.6E6	25.148	24.859
20) B	Endosulfan Sulfa	7.01	8.00	79870931	396.6E6	23.887	24.037
21) A	Methoxychlor	6.69	8.58	44238000	200.3E6	23.664	23.023
22)	Mirex	6.81	8.87	75306938	319.3E6	23.673	23.165
23) B	Endrin Ketone	7.44	8.95	89944204	426.7E6	23.773	23.075

(f)=RT Delta > 1/2 Window (m)=manual int.

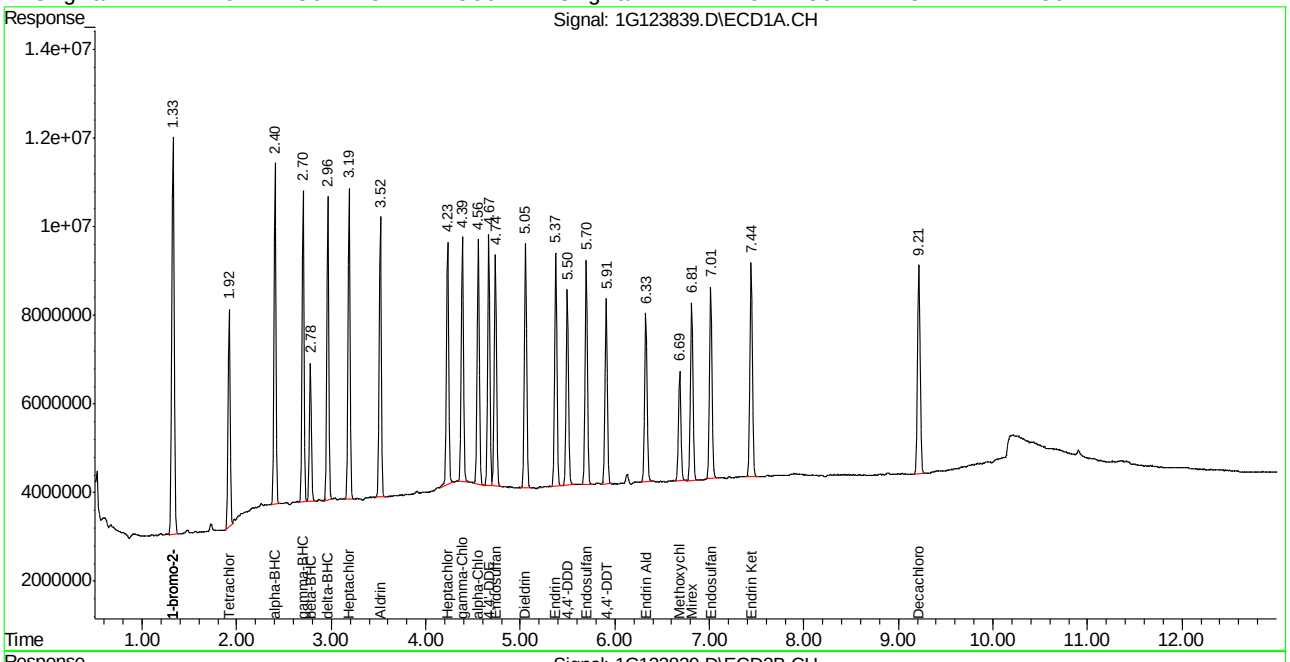
SGS ACCUTEST JC21229

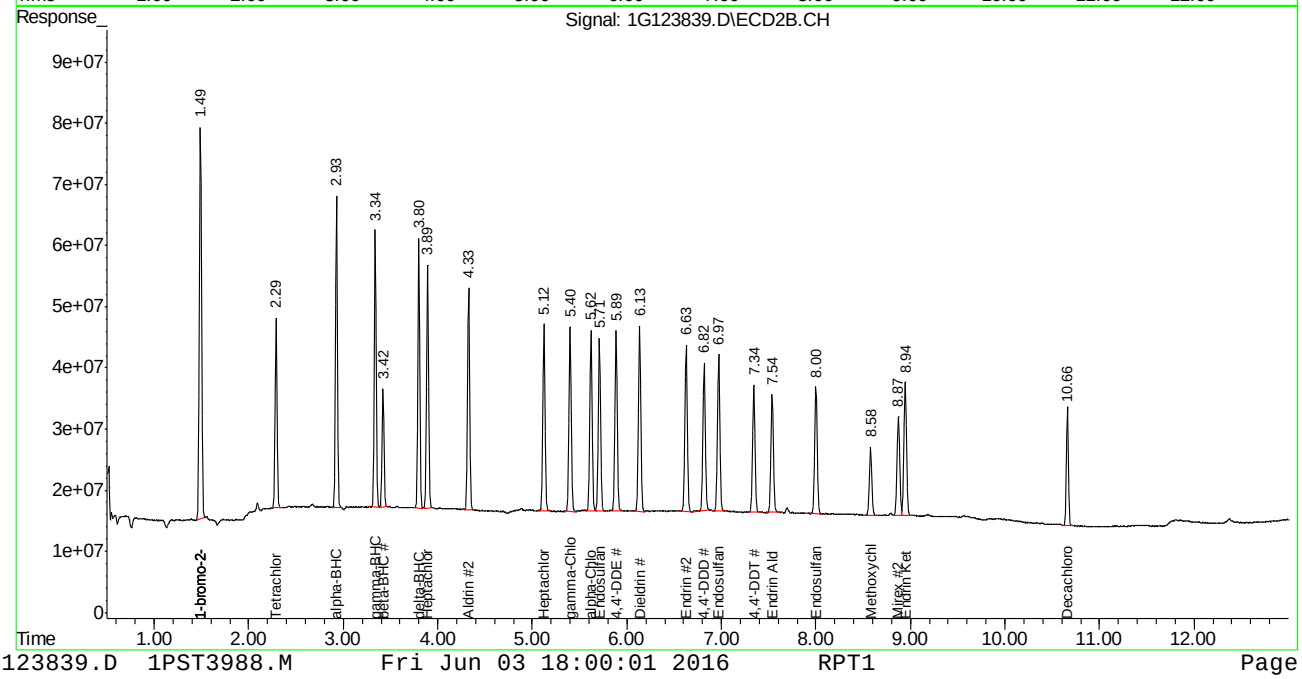
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD1A.CH Vial: 2
Signal #2 : C:\MSDCHEM\1\DATA\1G4003\1G123839.D\ECD2B.CH
Acq On : 6-3-16 05:45:48 PM Operator: dharas
Sample : cc3988-25 Inst : GC1G
Misc : op94273,g1g4003,16.4,,,10,1 Multiplr: 1.00
IntFile Signal #1: autoint1.e IntFile Signal #2: autoint2.e
Quant Time: Jun 3 17:59 2016 Quant Results File: 1PST3988.RES

Quant Method : C:\MSDCHEM\1\METHODS\1PST3988.M (Chemstation Integrator)
Title : PEST/PCB
Last Update : Thu Jun 02 13:15:36 2016
Response via : Multiple Level Calibration
DataAcq Meth : 1PST3988.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 JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:34:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.889	2.055	402.6E6	338.9E6	50.000	50.000
25) I	1-bromo-2...	1.889	2.055	402.6E6	338.9E6	50.000	50.000
31) I	1-bromo-2...	1.889	2.055	402.6E6	338.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.450	2.834	7147542	6279155	0.887	1.022
Spiked Amount		40.000 Range	30 - 150	Recovery	=	2.22%#	2.56%#
24) SA	Decachlor...	9.832	11.189	6485254	5474107	0.879m	1.007m
Spiked Amount		40.000		Recovery	=	2.20%	2.52%
	Target Compounds						
3) A	alpha-BHC	2.923	3.481	9336400	7923539	0.970	0.940
4) MA	gamma-BHC	3.224	3.905	8764925	7645195	1.013	0.986
5) MA	Heptachlor	3.720	4.482	9109039	7815786	1.089	0.944
6) B	beta-BHC	3.296	3.982	4450211	3570381	1.021	0.997
7) B	delta-BHC	3.486	4.378	7864962	6226362	1.046	0.879
8) MB	Aldrin	4.059	4.933	9015701	7333228	1.144	0.926
9) B	Heptachlo...	4.792	5.753	8194630	6964296	1.123	0.978
10) B	gamma-Chl...	4.953	6.035	8473996	6326031	1.201	0.913
11) B	alpha-Chl...	5.126	6.260	6493697	6822684	0.874	1.000m
12) A	Endosulfan I	5.316	6.357	7348677	6237925	0.947	0.924m
13) B	4,4'-DDE	5.232	6.523	7560879	6680945	1.118	0.960
14) MA	Dieldrin	5.643	6.789f	7006611	6057406	0.907	0.876
15) MA	Endrin	5.973	7.295f	6609456	5303833	0.934	0.852
16) A	4,4'-DDD	6.086	7.469	6080492	5277999	1.024	0.938
17) B	Endosulfa...	6.303	7.645	6610853	6921238	0.949	1.103
18) MA	4,4'-DDT	6.506	8.005	6234327	5317903	2.255	1.133m#
19) B	Endrin Al...	6.948	8.217	5257861	4278192	0.904m	0.908
20) B	Endosulfa...	7.649	8.684	6237467	5257840	0.959	1.068
21) A	Methoxychlor	7.299	9.246	3871509	3270953	1.234m	1.257m
22)	Mirex	7.449	9.581	5754565	3834578	0.889	0.901m
23) B	Endrin Ke...	8.089	9.643	7216628	5412389	1.031	1.021m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.22 11

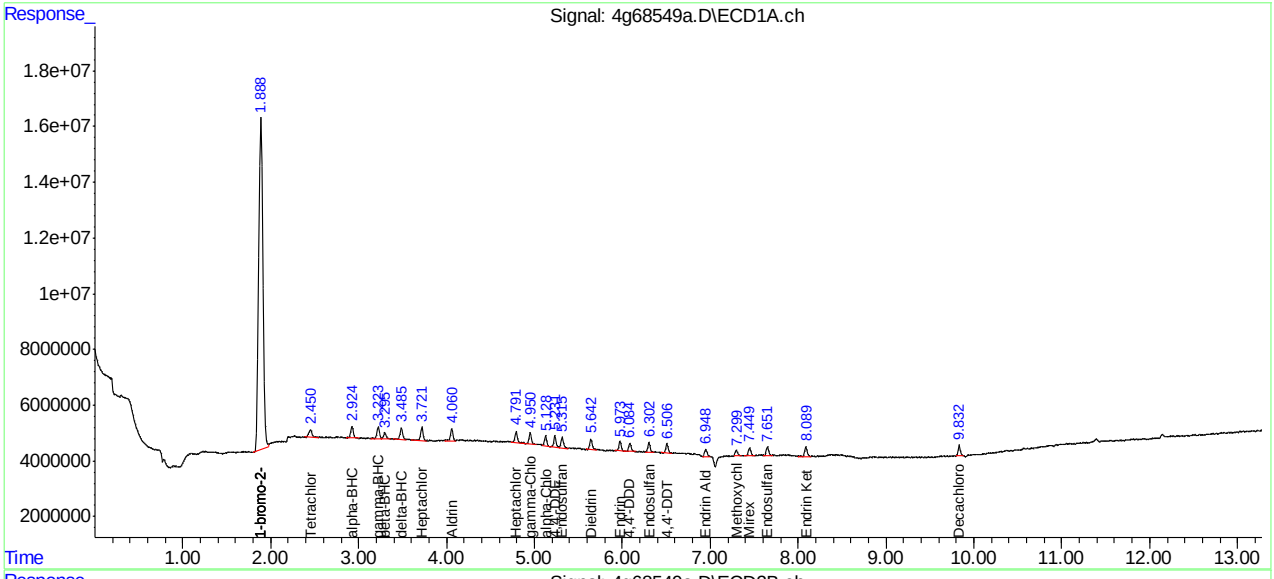
SGS ACCUTEST JC21229

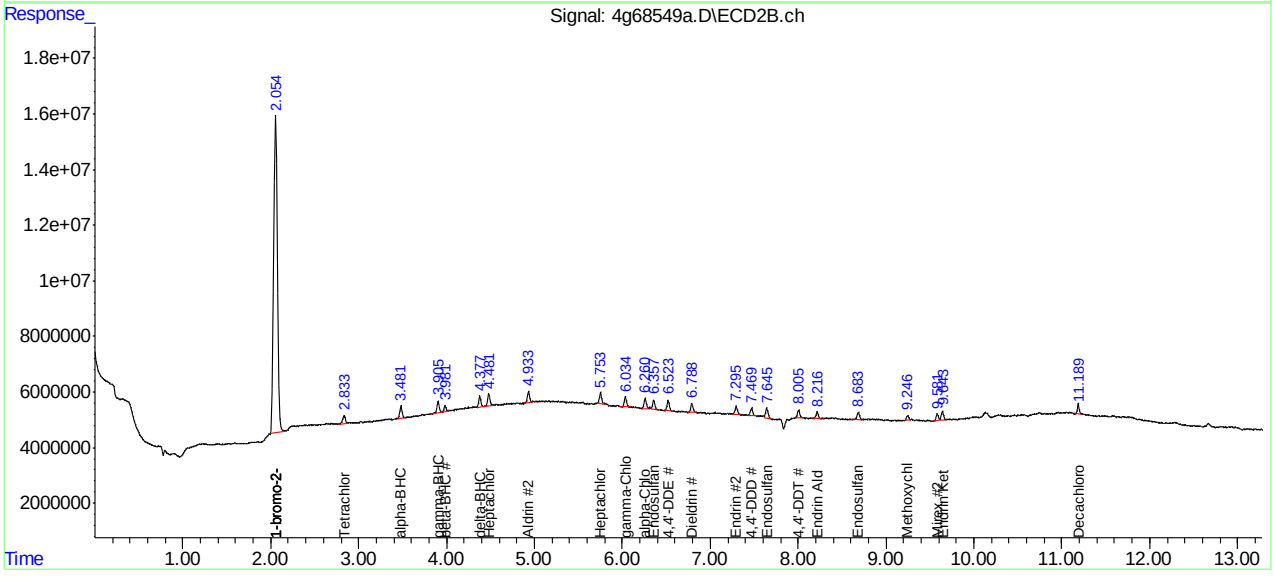
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:34:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68549A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 14:33	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

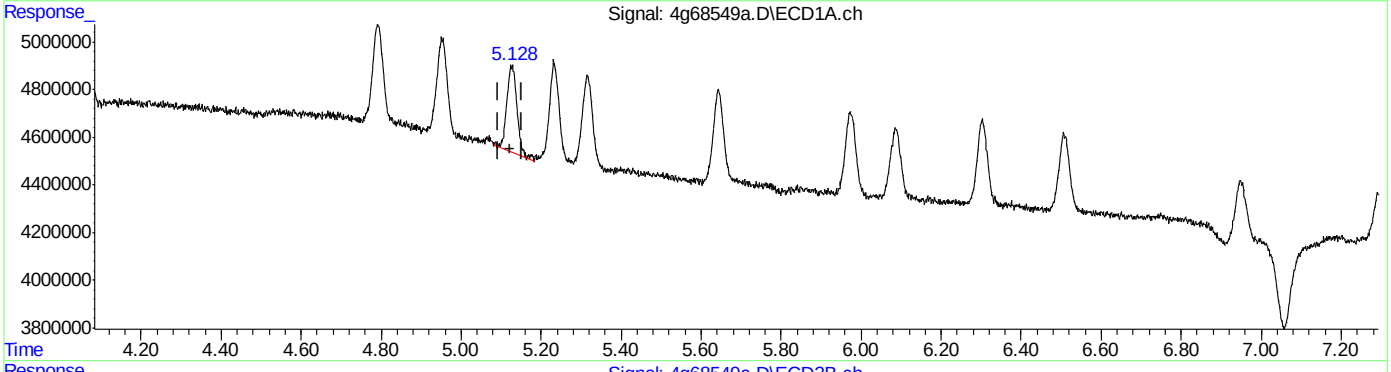
Parameter	CAS	Sig#	R.T. (min.)	Reason
alpha-Chlordane	5103-71-9	2	6.26	Poorly defined baseline
Endosulfan-I	959-98-8	2	6.36	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.95	Poorly defined baseline
Methoxychlor	72-43-5	1	7.30	Poorly defined baseline
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline
Methoxychlor	72-43-5	2	9.25	Poorly defined baseline
Mirex	2385-85-5	2	9.58	Poorly defined baseline
Endrin ketone	53494-70-5	2	9.64	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.83	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.19	Poorly defined baseline

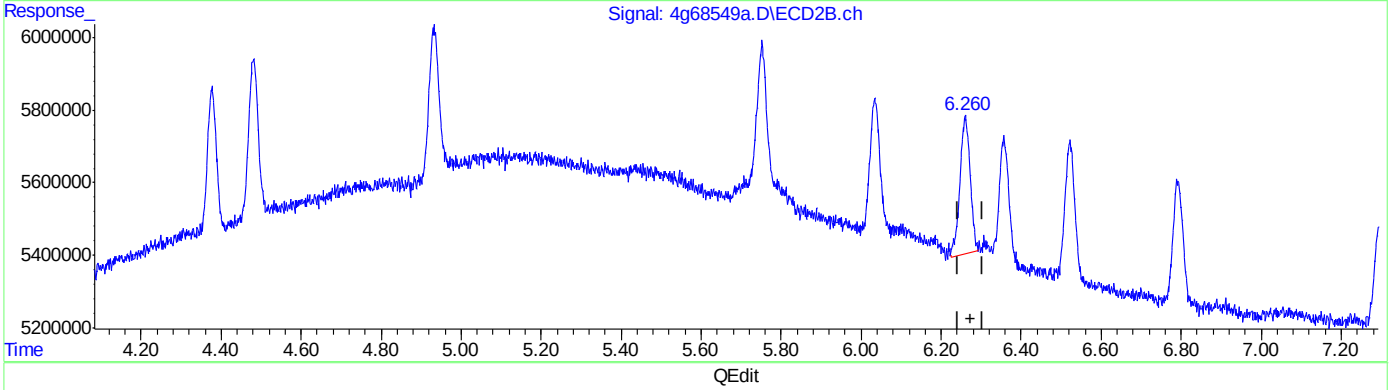
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(11) alpha-Chlordane (B)
5.126min 0.874 PPB
response 6493697

(11) alpha-Chlordane #2 (B)
6.260min 0.990 PPB
response 6751630

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (Qedit)

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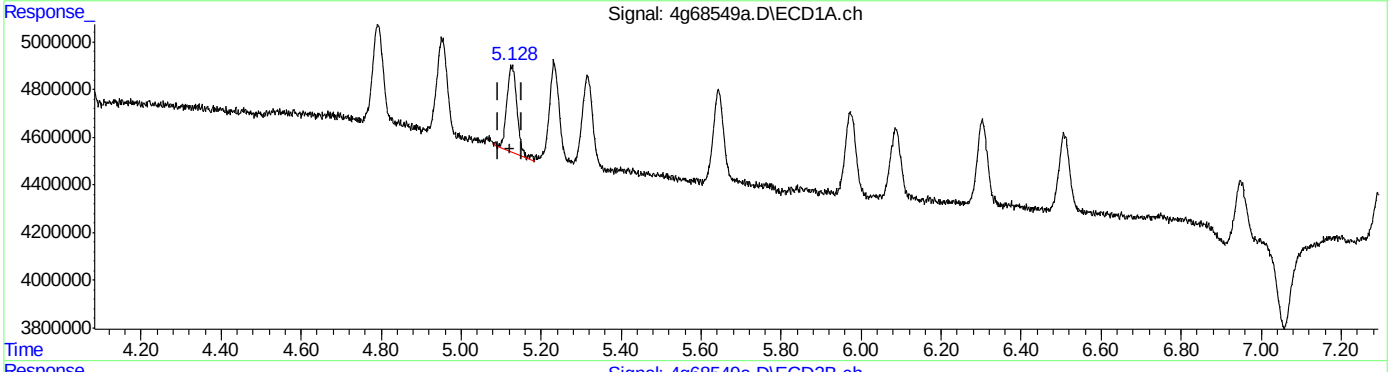
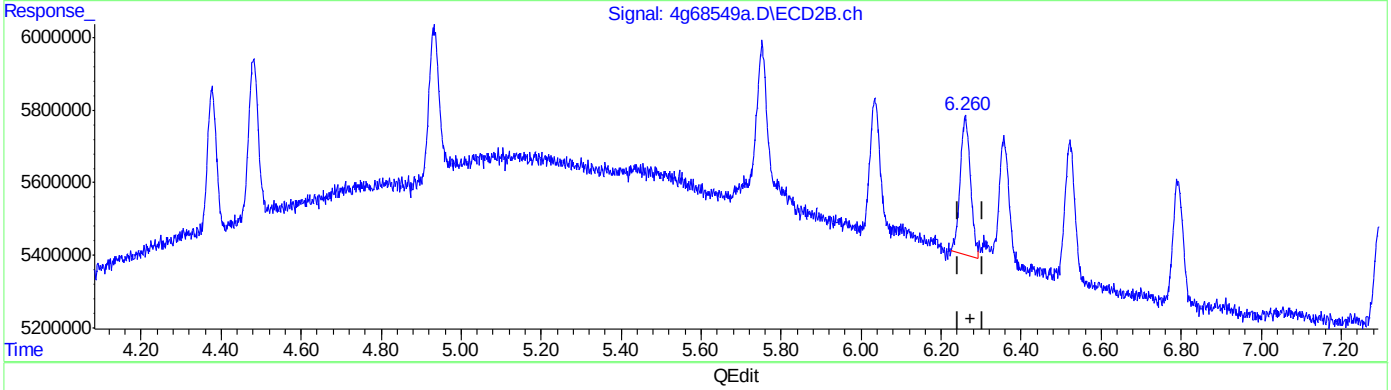
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(11) alpha-Chlordane (B)
5.126min 0.874 PPB
response 6493697

(11) alpha-Chlordane #2 (B)
6.260min 1.000 PPB m
response 6822684

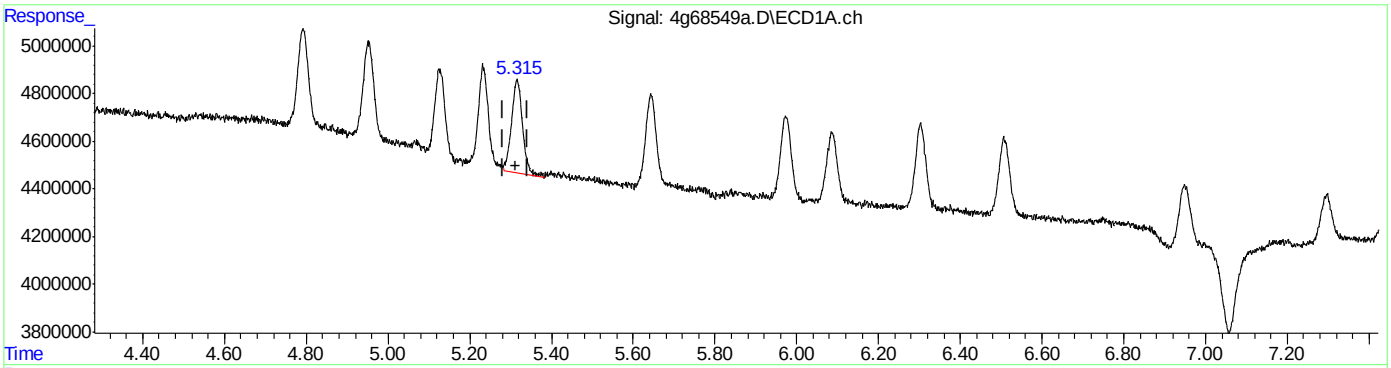
(+) = Expected Retention Time

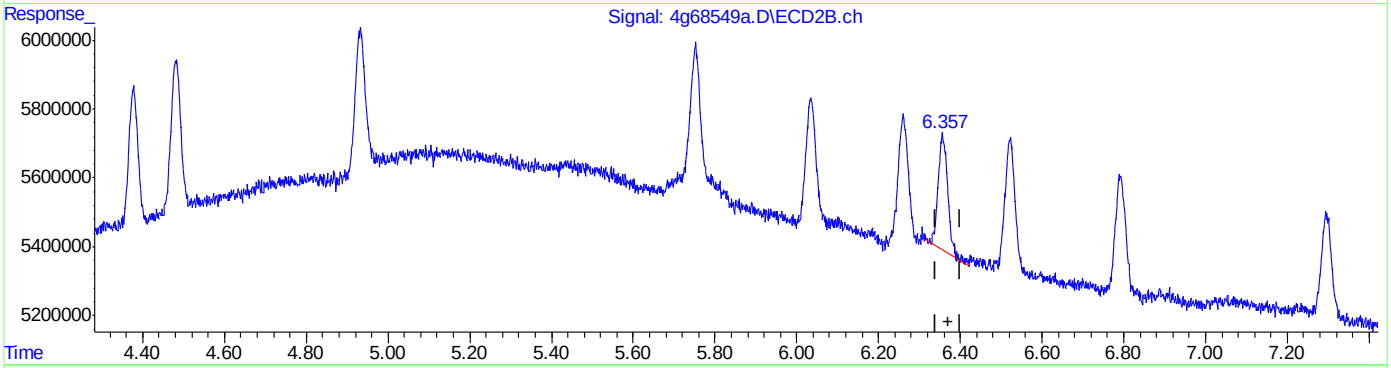
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(12) Endosulfan I (A)
5.316min 0.947 PPB
response 7348677

(12) Endosulfan I #2 (A)
6.356min 0.825 PPB
response 5566936

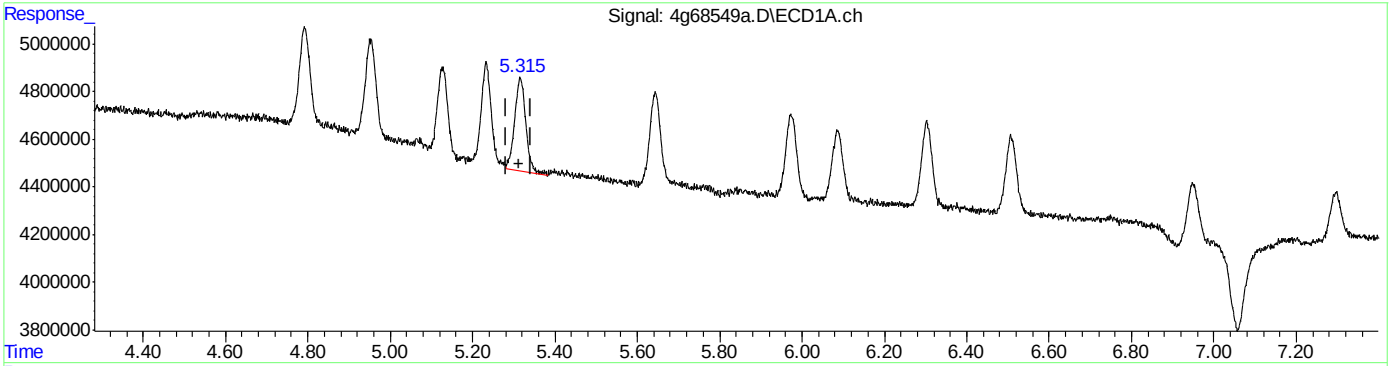
(+) = Expected Retention Time

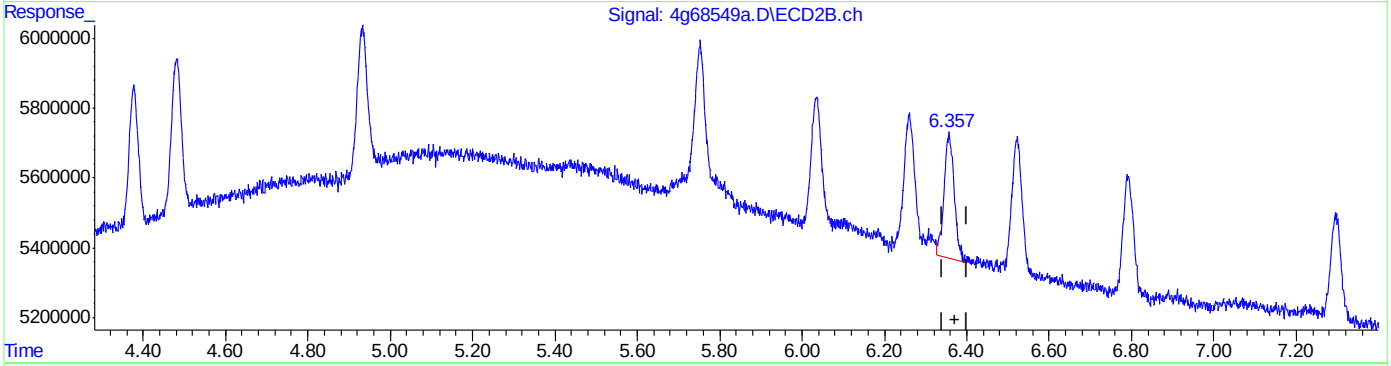
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(12) Endosulfan I (A)
5.316min 0.947 PPB
response 7348677

(12) Endosulfan I #2 (A)
6.357min 0.924 PPB m
response 6237925

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
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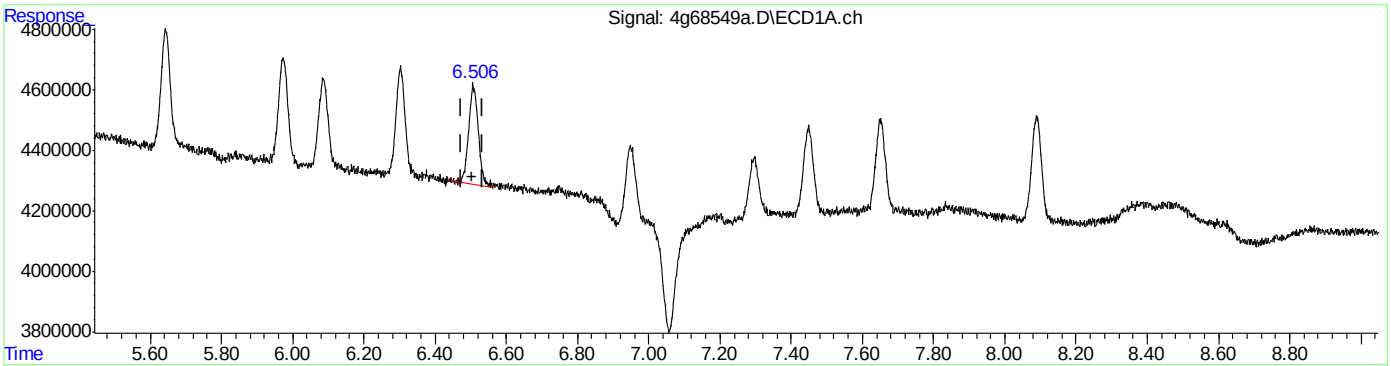
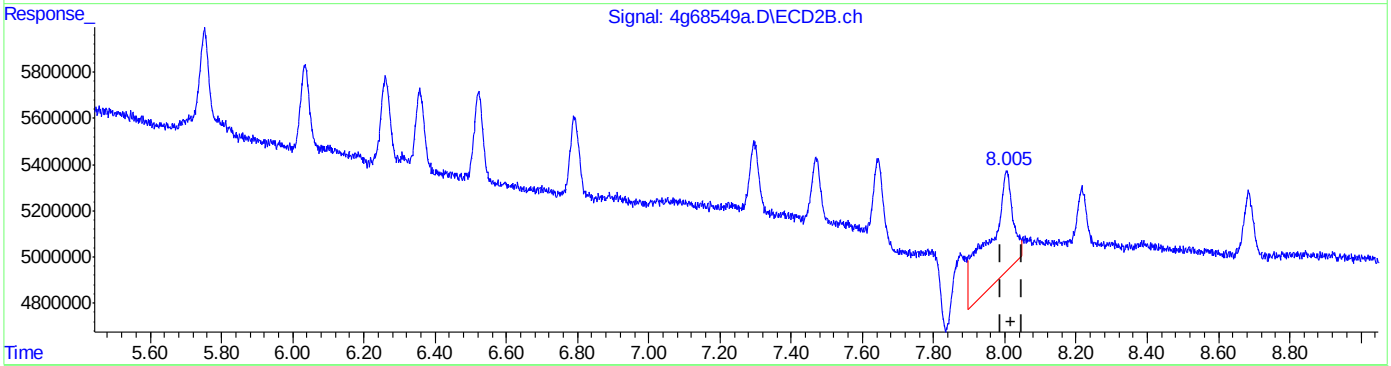
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.506min 2.255 PPB
response 6234327

(18) 4,4'-DDT #2 (MA)
8.005min 4.436 PPB
response 20813988

(+) = Expected Retention Time

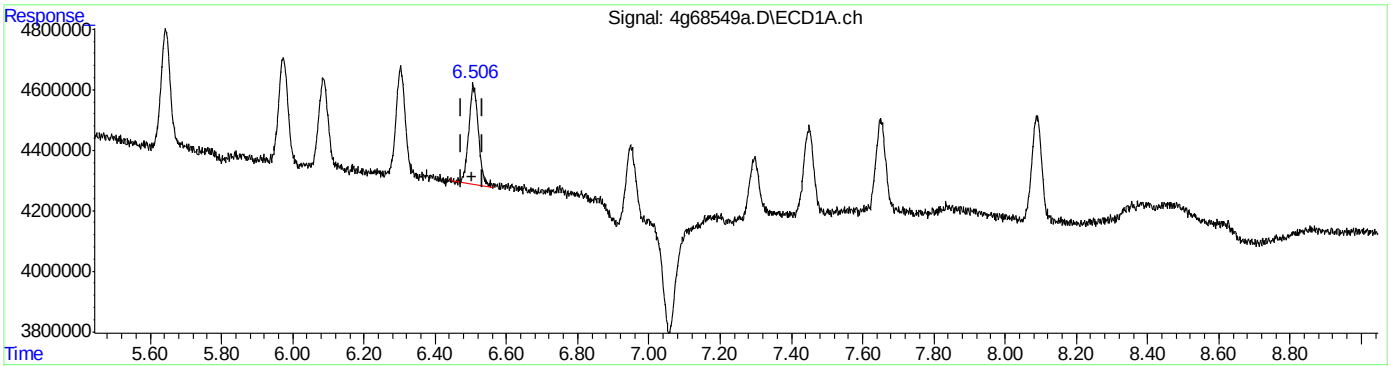
SGS ACCUTEST JC21229

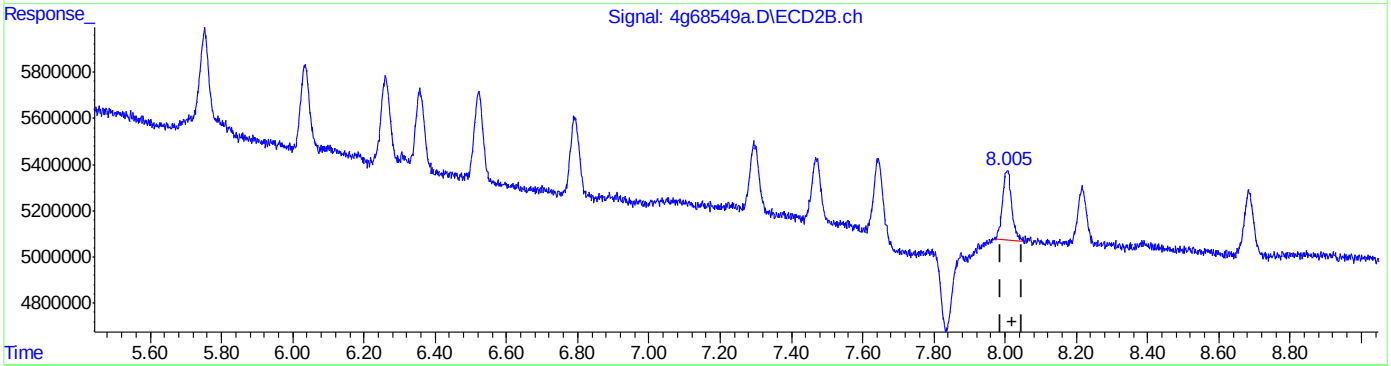
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.506min 2.255 PPB
response 6234327

(18) 4,4'-DDT #2 (MA)
8.005min 1.133 PPB m
response 5317903

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
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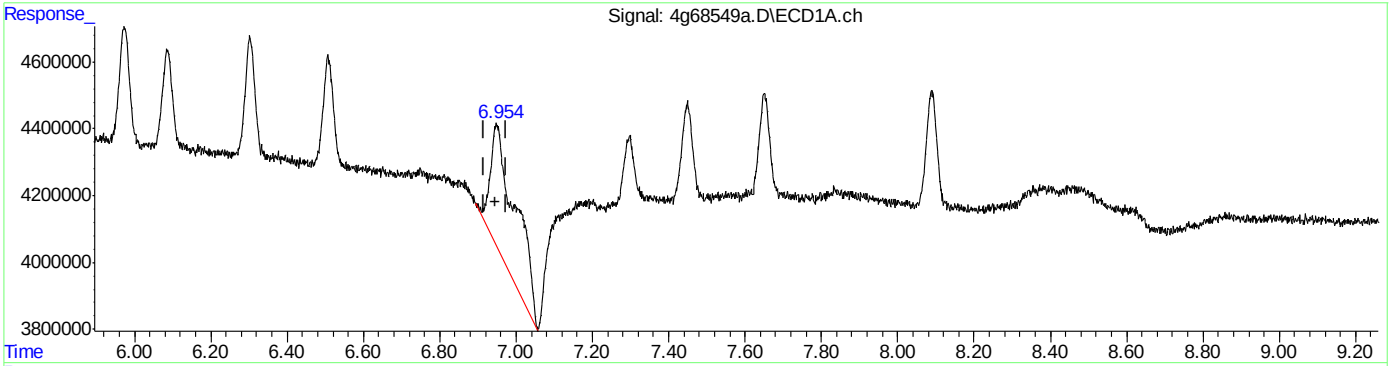
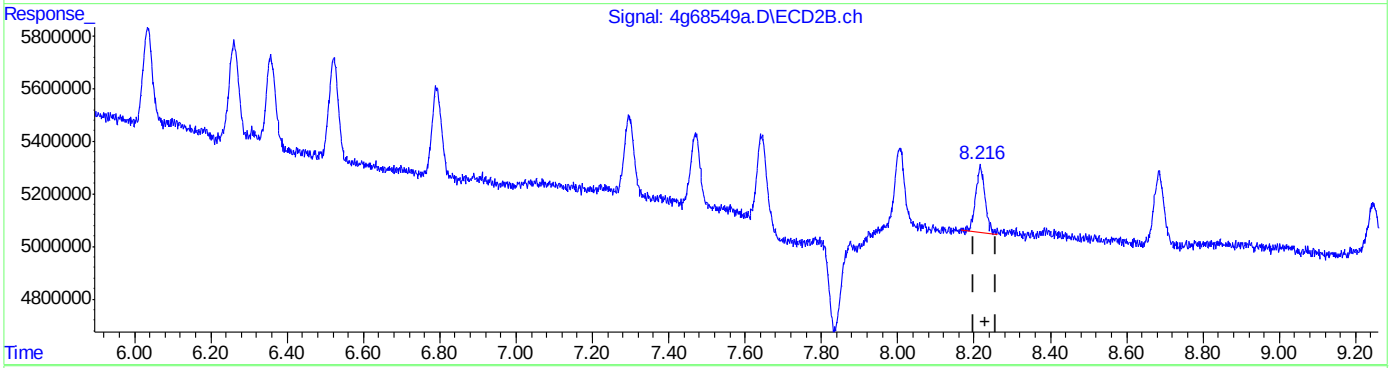
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
6.948min 3.032 PPB
response 17636919

(19) Endrin Aldehyde #2 (B)
8.217min 0.908 PPB
response 4278192

(+) = Expected Retention Time
4PST1799.M Tue May 24 17:33:33 2016 RPT1

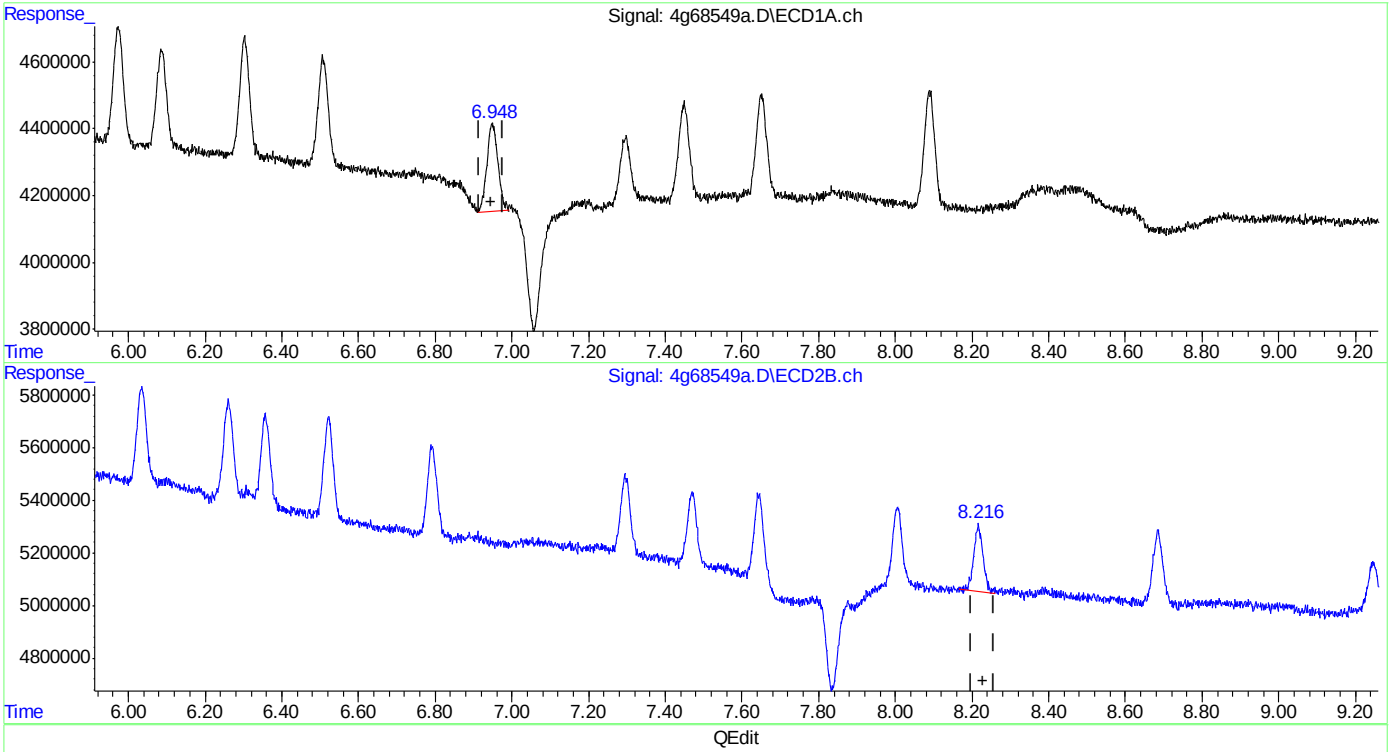
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(19) Endrin Aldehyde (B)
6.948min 0.904 PPB m
response 5257861

(19) Endrin Aldehyde #2 (B)
8.217min 0.908 PPB
response 4278192

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Quant Title : PEST/PCB
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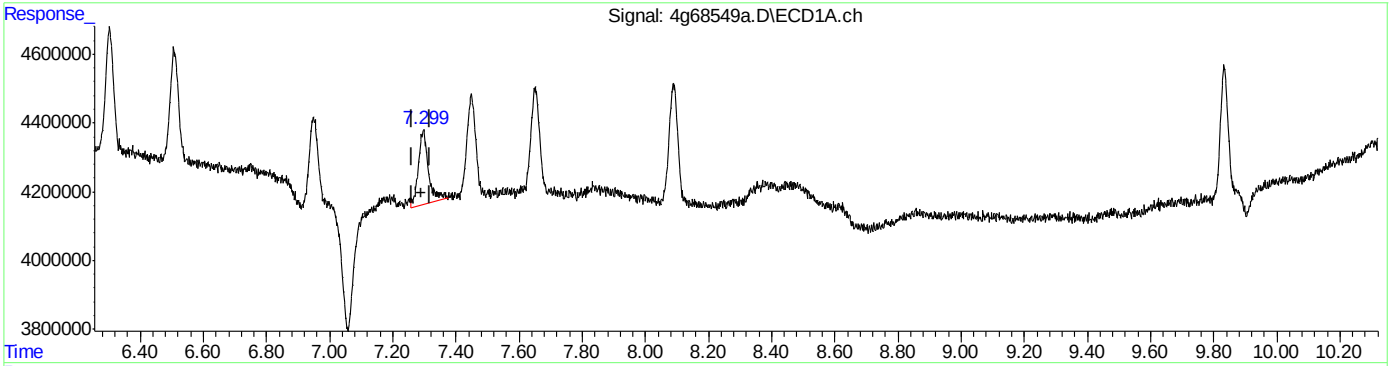
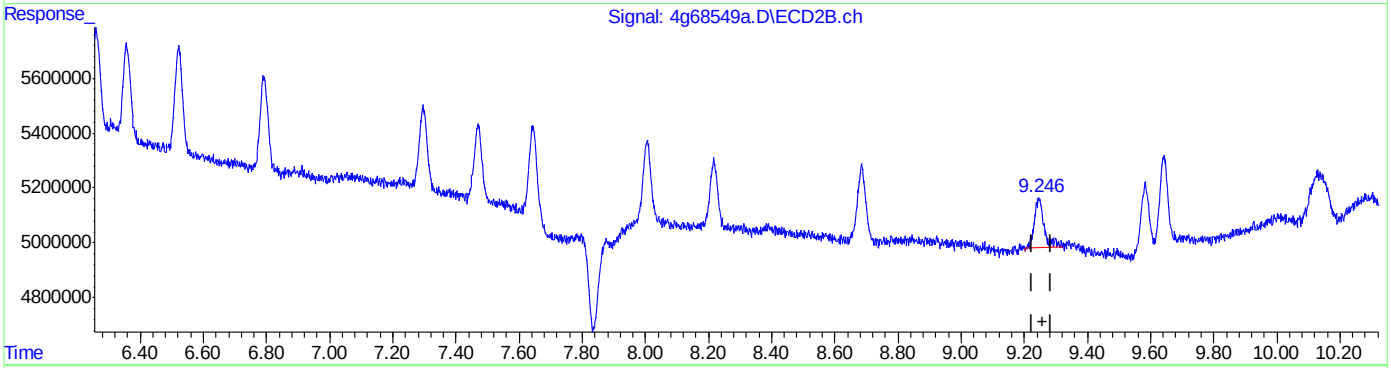
Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.298min 1.553 PPB
response 4873730

(21) Methoxychlor #2 (A)
9.247min 1.490 PPB
response 3877698

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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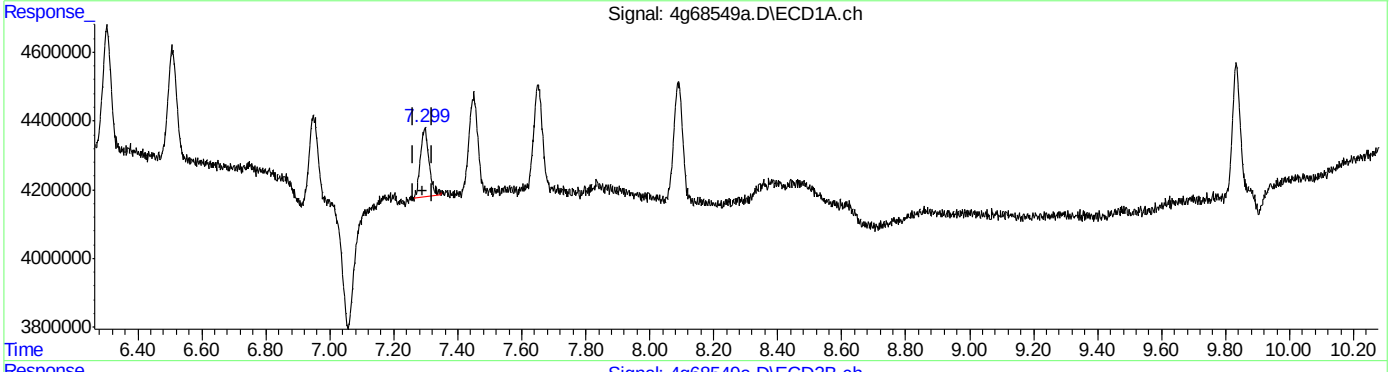
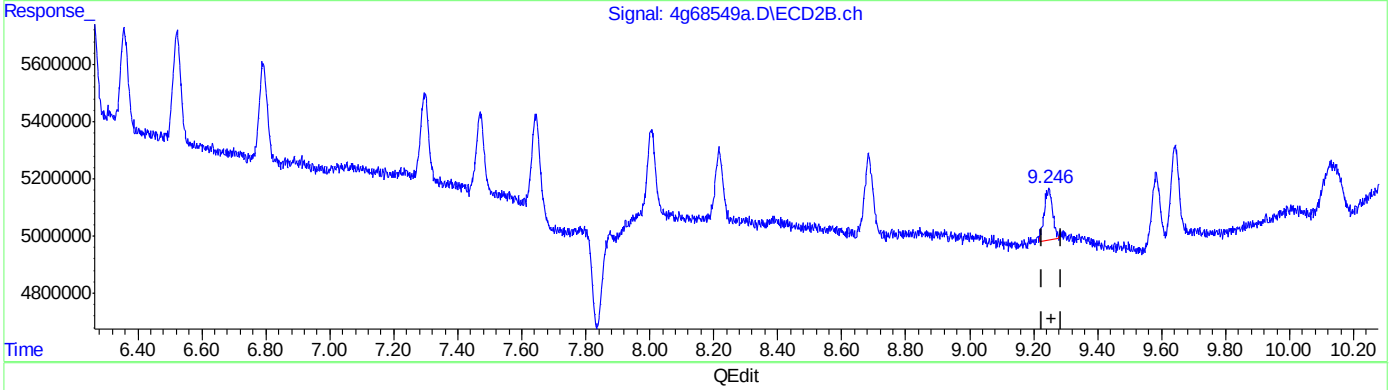
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.299min 1.234 PPB m
response 3871509

(21) Methoxychlor #2 (A)
9.246min 1.257 PPB m
response 3270953

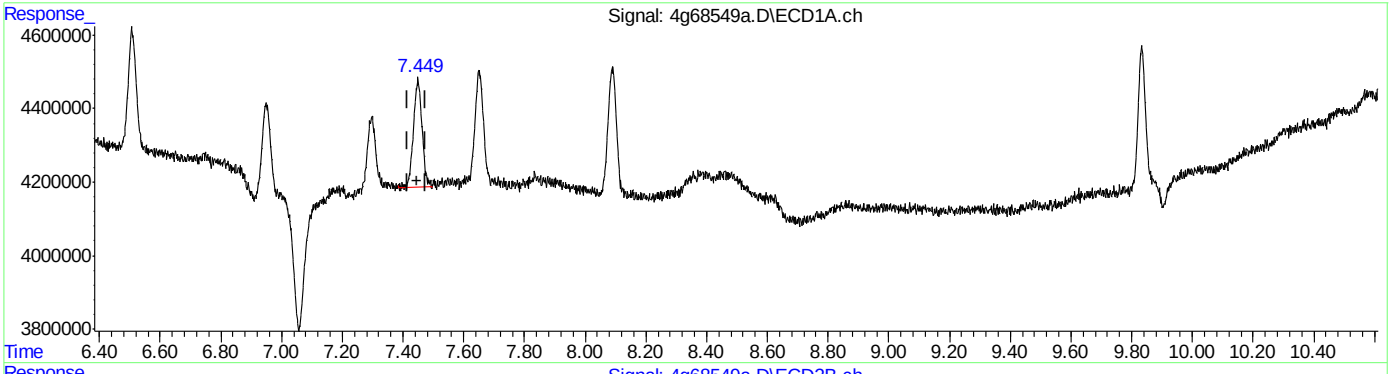
(+) = Expected Retention Time

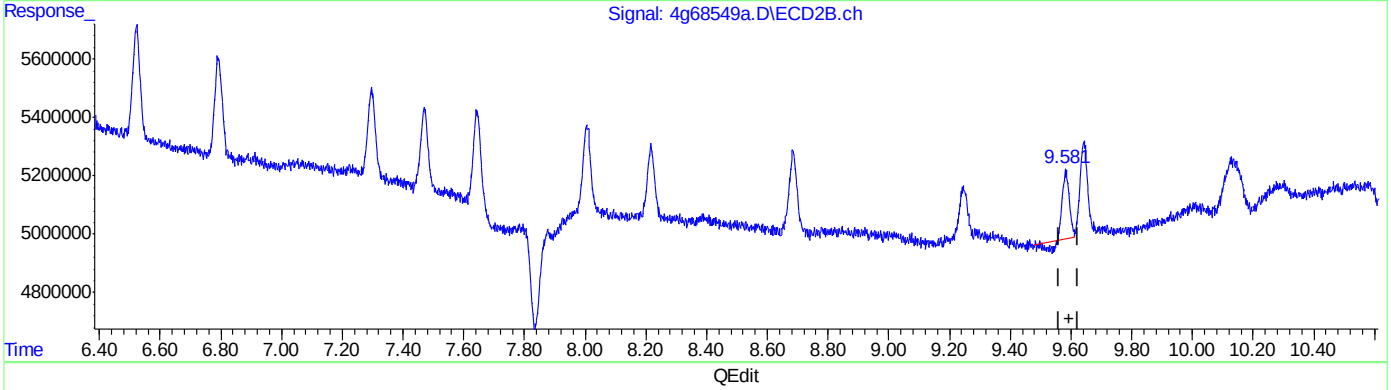
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(22) Mirex
7.449min 0.889 PPB
response 5754565

(22) Mirex #2
9.583min 0.758 PPB
response 3224209

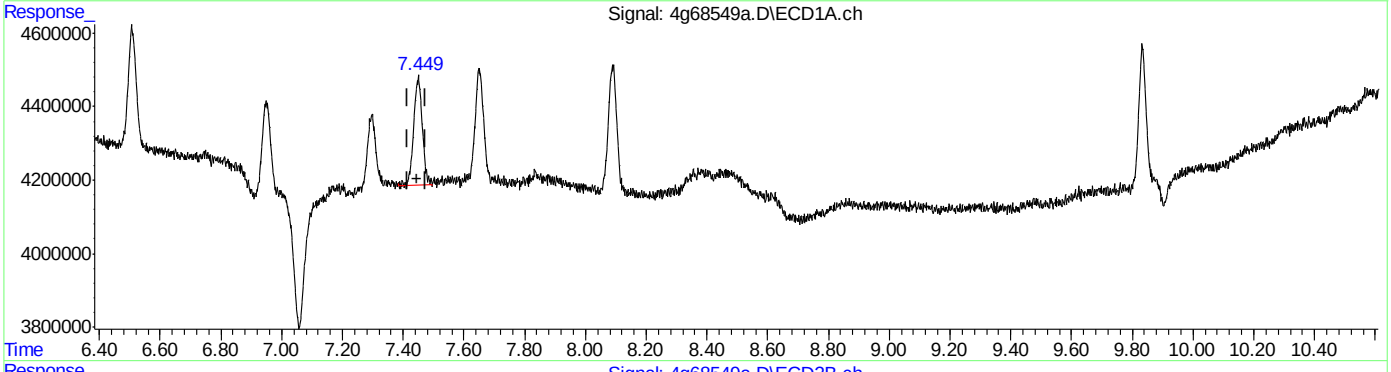
(+) = Expected Retention Time

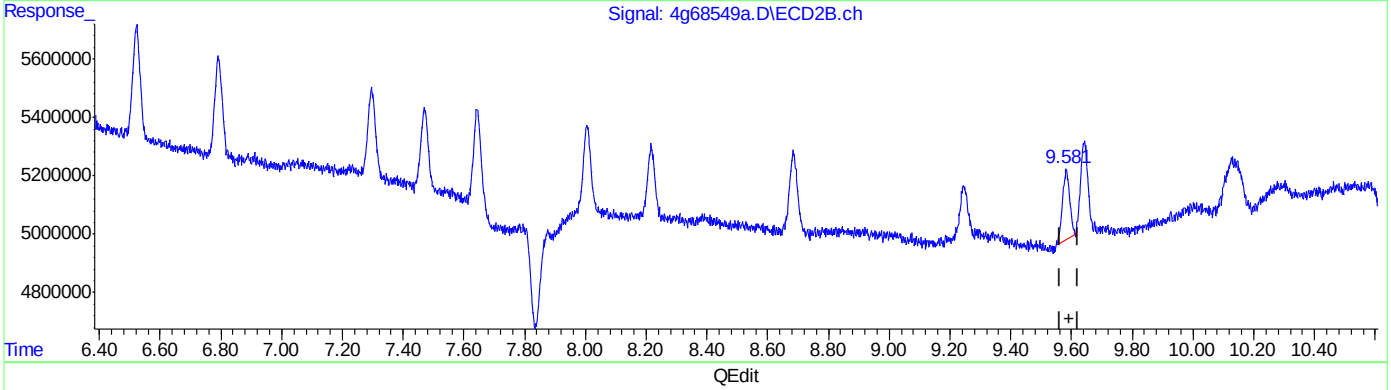
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(22) Mirex
7.449min 0.889 PPB
response 5754565

(22) Mirex #2
9.581min 0.901 PPB m
response 3834578

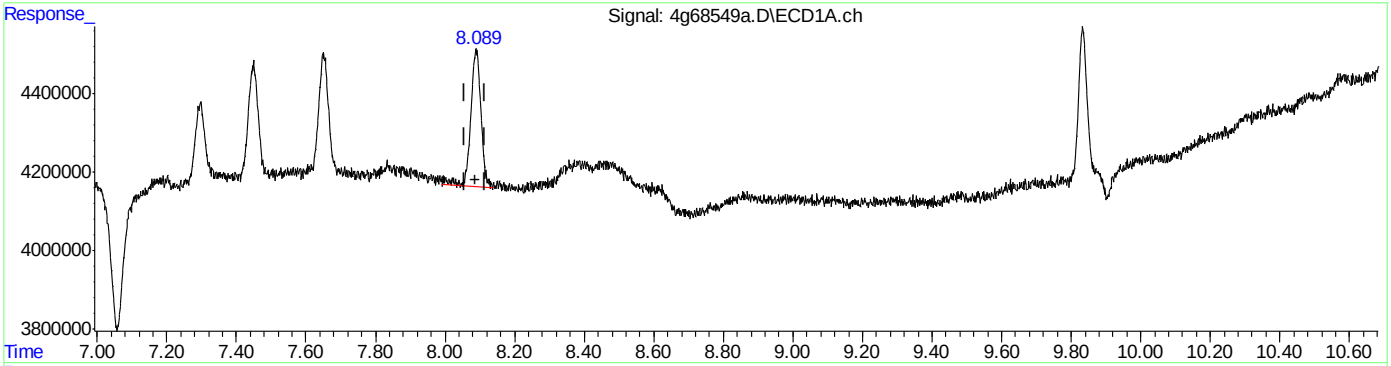
(+) = Expected Retention Time

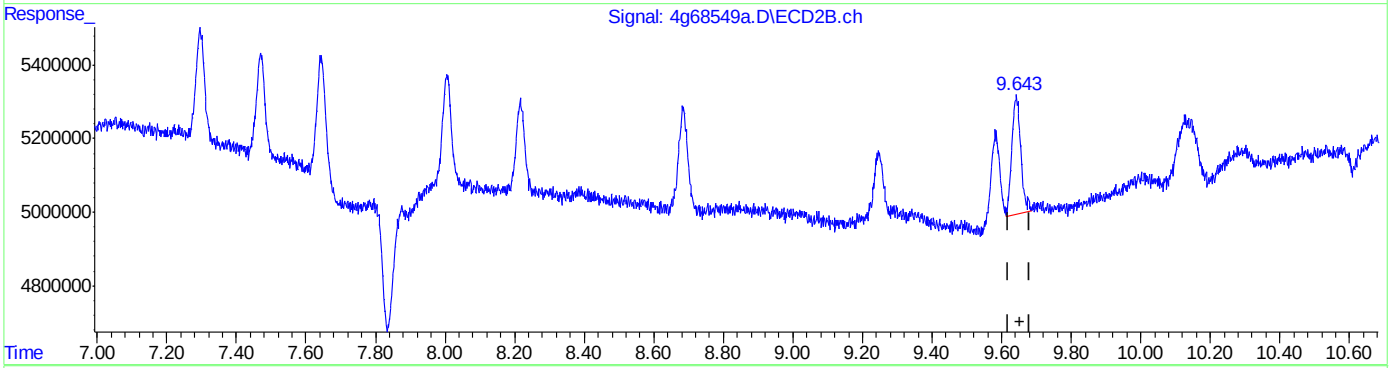
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.089min 1.031 PPB
response 7216628

(23) Endrin Ketone #2 (B)
9.642min 1.069 PPB
response 5664763

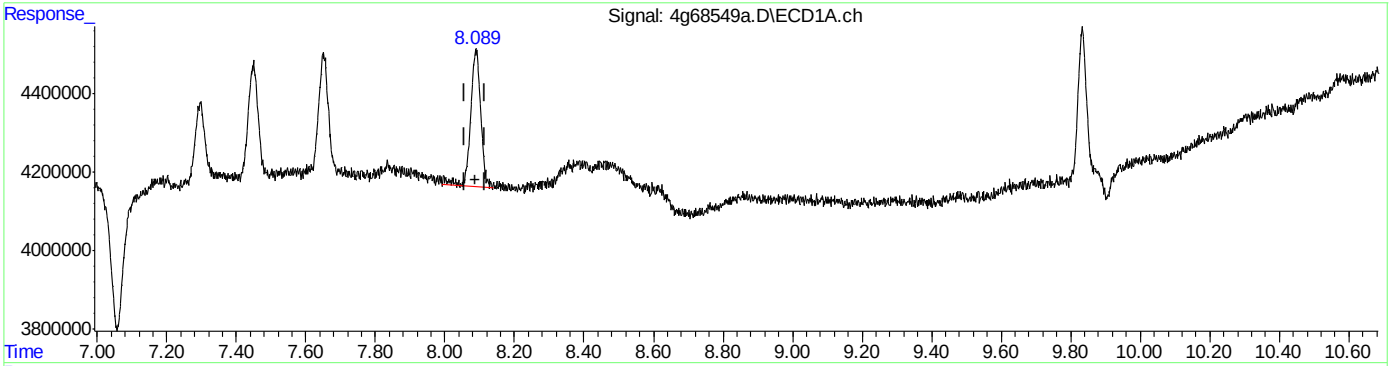
(+) = Expected Retention Time
4PST1799.M Tue May 24 17:34:13 2016 RPT1

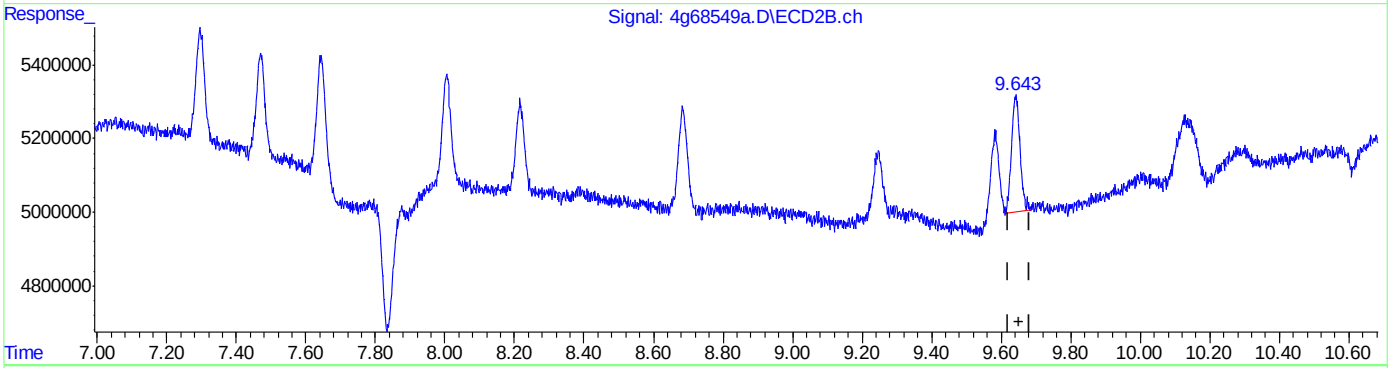
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(23) Endrin Ketone (B)
8.089min 1.031 PPB
response 7216628

(23) Endrin Ketone #2 (B)
9.643min 1.021 PPB m
response 5412389

(+) = Expected Retention Time

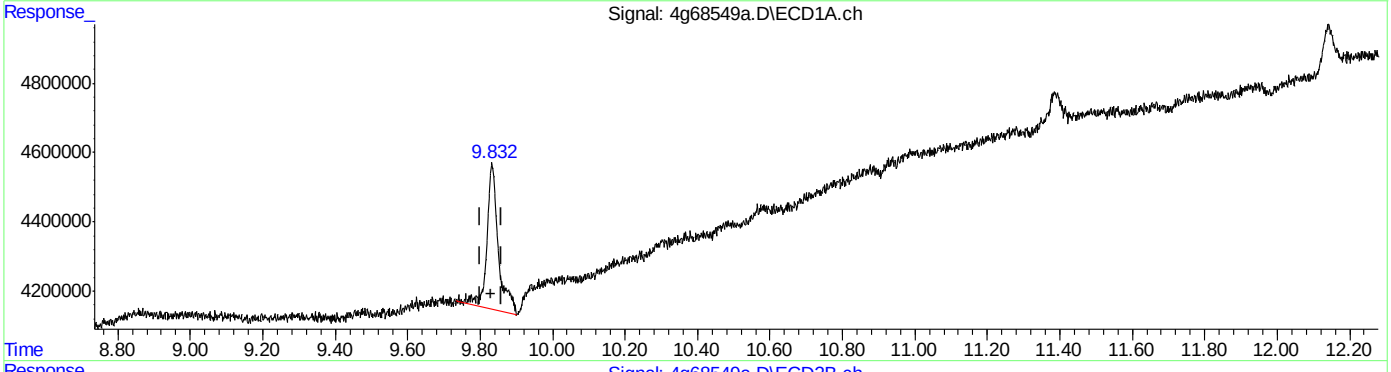
SGS ACCUTEST JC21229

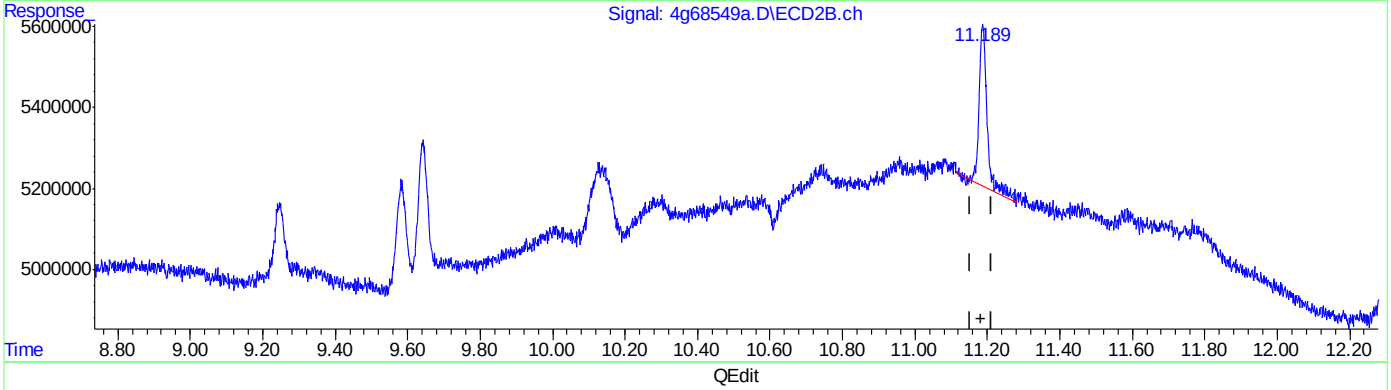
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(24) Decachlorobiphenyl (SA)
9.833min 1.262 PPB
response 9309455

(24) Decachlorobiphenyl #2 (SA)
11.187min 1.134 PPB
response 6165882

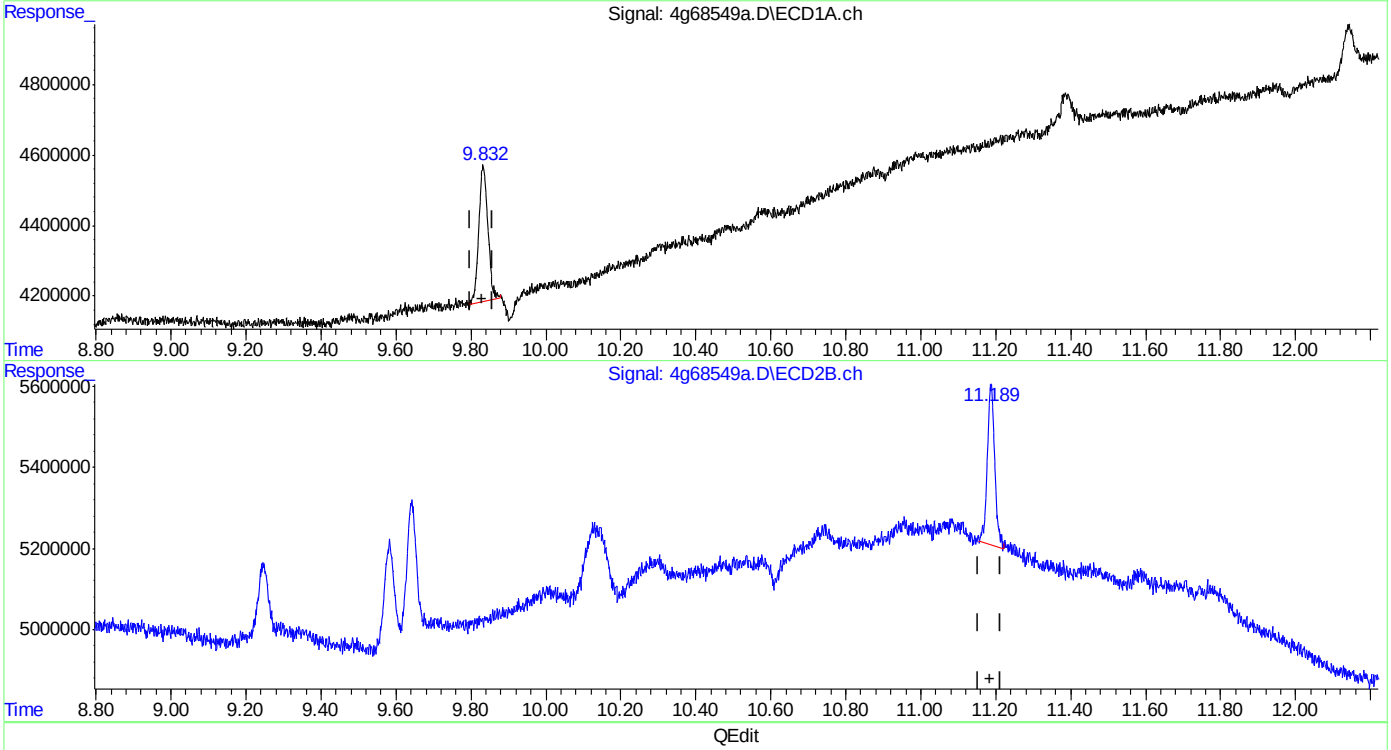
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68549a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:33 pm
Operator : rebeccak
Sample : ic1799-1
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:31:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.832min 0.879 PPB m
response 6485254

(24) Decachlorobiphenyl #2 (SA)
11.189min 1.007 PPB m
response 5474107

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:37:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.885	2.062	408.5E6	343.5E6	50.000	50.000
25) I	1-bromo-2...	1.885	2.062	408.5E6	343.5E6	50.000	50.000
31) I	1-bromo-2...	1.885	2.062	408.5E6	343.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.446	2.843	13917394	12634980	1.701	2.029
Spiked Amount		40.000	Range	30 - 150	Recovery	= 4.25%#	5.07%#
24) SA	Decachlor...	9.829	11.185	12891611	10902523	1.723m	1.979m
Spiked Amount		40.000			Recovery	= 4.31%	4.95%
	Target Compounds						
3) A	alpha-BHC	2.921	3.492	18202766	16433428	1.864	1.924
4) MA	gamma-BHC	3.219	3.914	16623136	15480446	1.894	1.970
5) MA	Heptachlor	3.715	4.491	16891580	16484946	1.991	1.963
6) B	beta-BHC	3.293	3.993	8385567	7875618	1.897	2.170
7) B	delta-BHC	3.481	4.388	15025180	13635253	1.970	1.900
8) MB	Aldrin	4.055	4.942	15322424	15007285	1.916	1.870
9) B	Heptachlo...	4.787	5.760	14361697	13383395	1.940	1.854
10) B	gamma-Chl...	4.948	6.042	14539713	13250076	2.030	1.886
11) B	alpha-Chl...	5.122	6.267	14071567	13300429	1.867	1.924
12) A	Endosulfan I	5.311	6.365	14247843	11674393	1.810	1.706
13) B	4,4'-DDE	5.227	6.529	14562518	13423036	2.122	1.903
14) MA	Dieldrin	5.638	6.800	13809376	12527769	1.762	1.786
15) MA	Endrin	5.968	7.304	13296856	11201996	1.852	1.776
16) A	4,4'-DDD	6.082	7.475	11195626	10057478	1.859	1.764
17) B	Endosulfa...	6.299	7.650	13469640	12014293	1.906	1.889
18) MA	4,4'-DDT	6.504	8.011	12217617	10045711	3.488	2.112m#
19) B	Endrin Al...	6.944	8.222	10353473	8983939	1.754	1.880
20) B	Endosulfa...	7.646	8.690	12098820	10149271	1.834	2.033
21) A	Methoxychlor	7.291	9.250	7037401	6512446	2.210m	2.468
22)	Mirex	7.443	9.585	11379246	9178156	1.733	2.128
23) B	Endrin Ke...	8.084	9.646	14107771	11707370	1.987	2.179

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

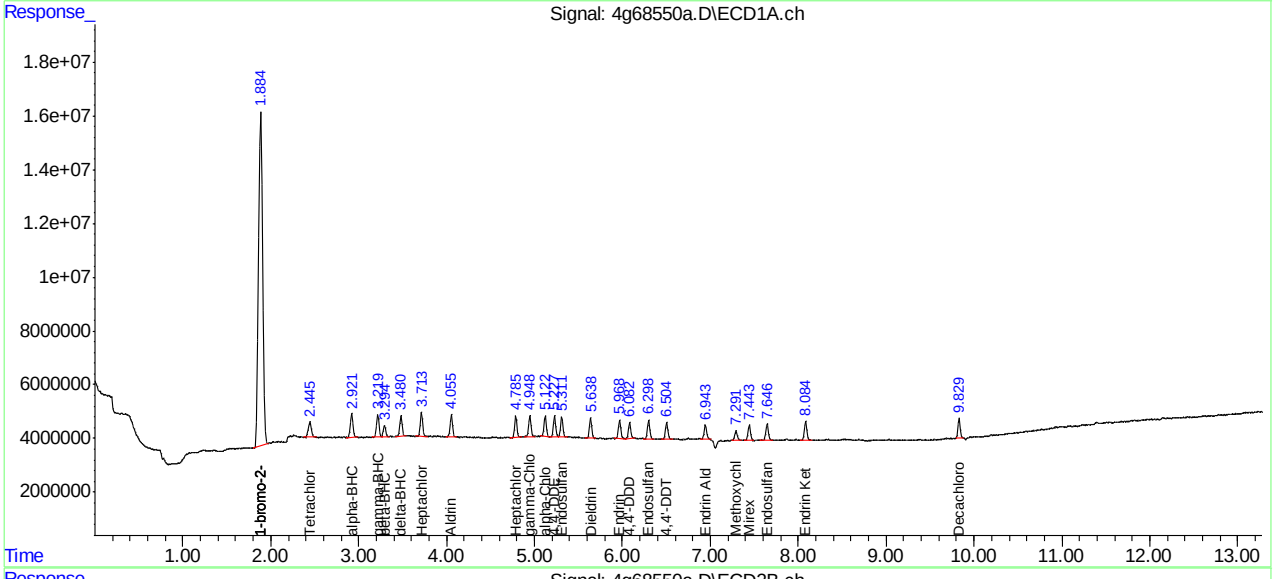
11.6.23 11

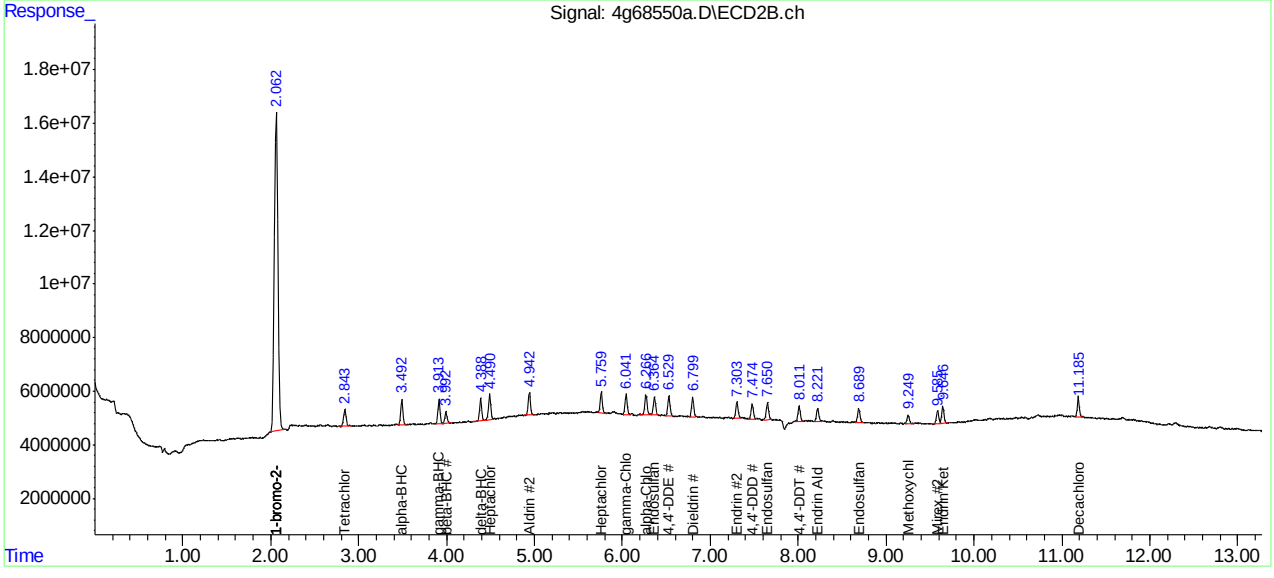
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:37:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68550A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 14:48	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

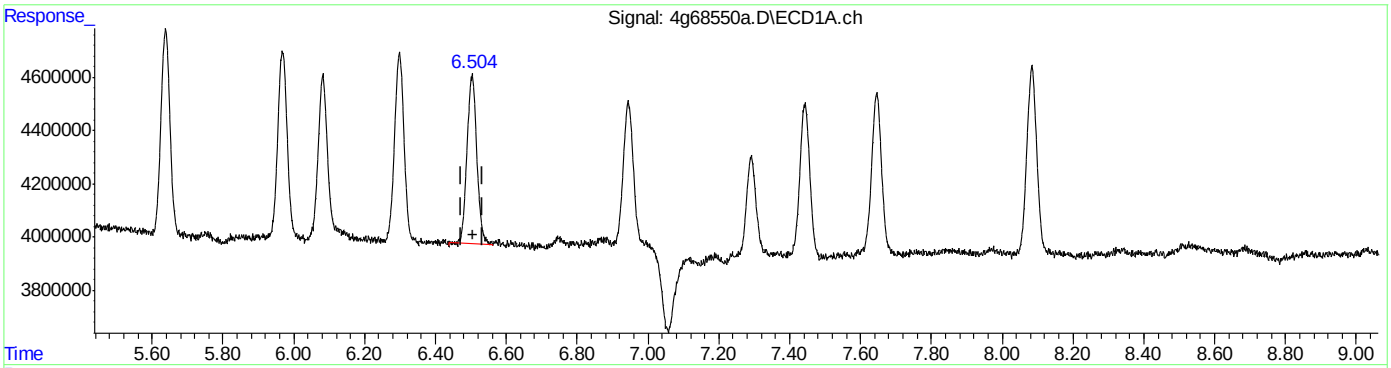
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methoxychlor	72-43-5	1	7.29	Poorly defined baseline
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.83	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.19	Poorly defined baseline

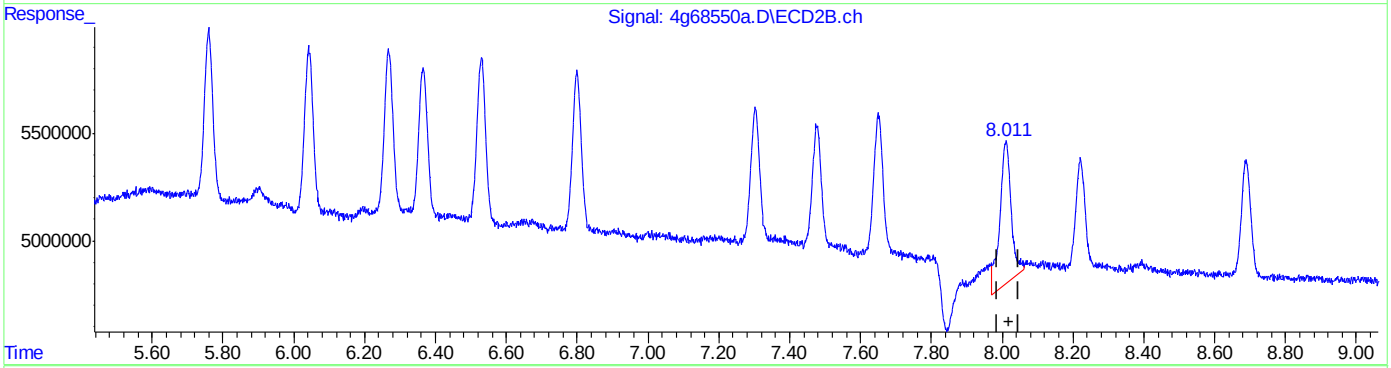
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.504min 3.488 PPB
response 12217617

(18) 4,4'-DDT #2 (MA)
8.012min 3.125 PPB
response 14861126

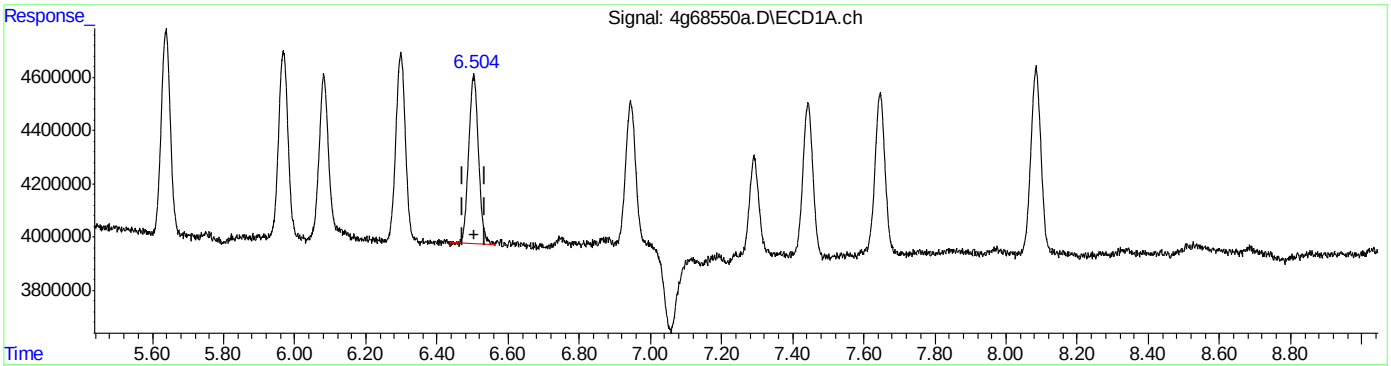
(+) = Expected Retention Time

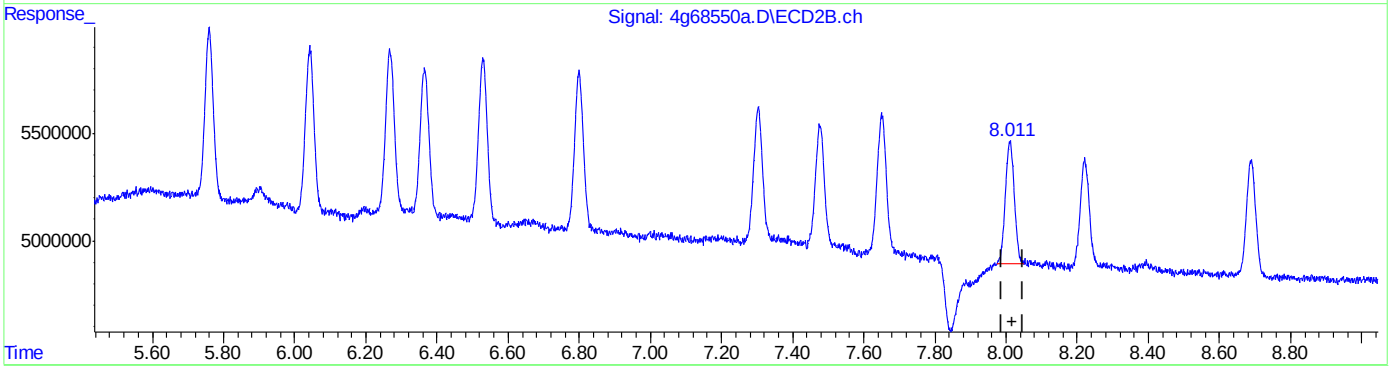
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.504min 3.488 PPB
response 12217617

(18) 4,4'-DDT #2 (MA)
8.011min 2.112 PPB m
response 10045711

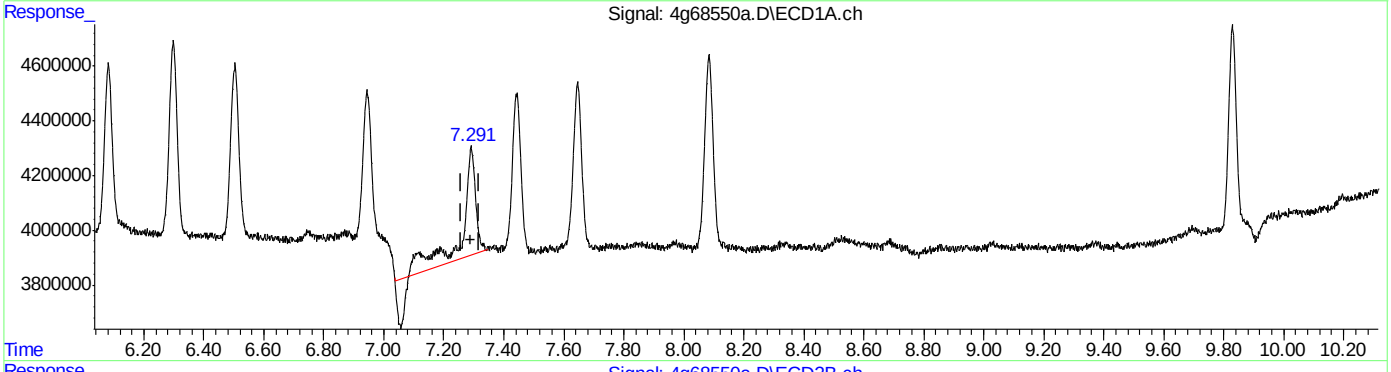
(+) = Expected Retention Time

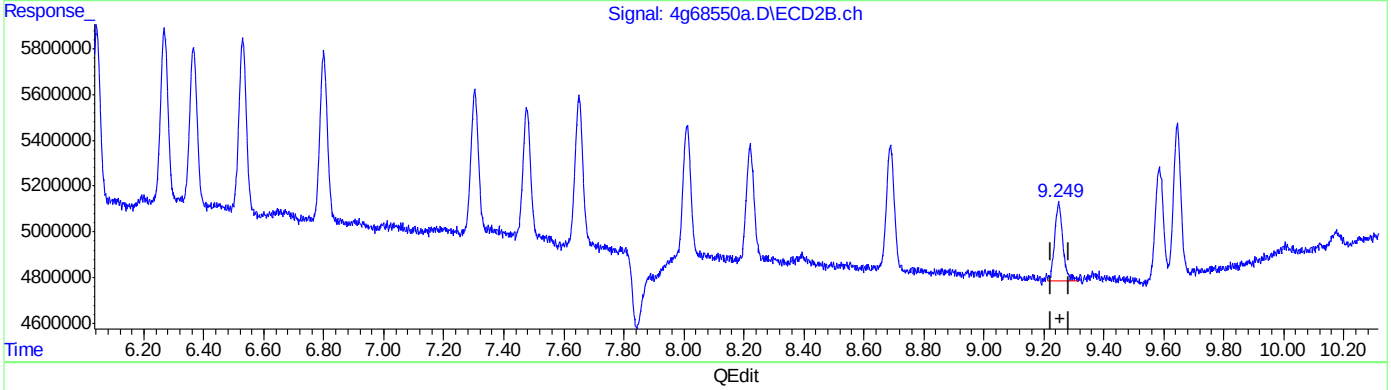
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.291min 3.157 PPB
response 10053594

(21) Methoxychlor #2 (A)
9.250min 2.468 PPB
response 6512446

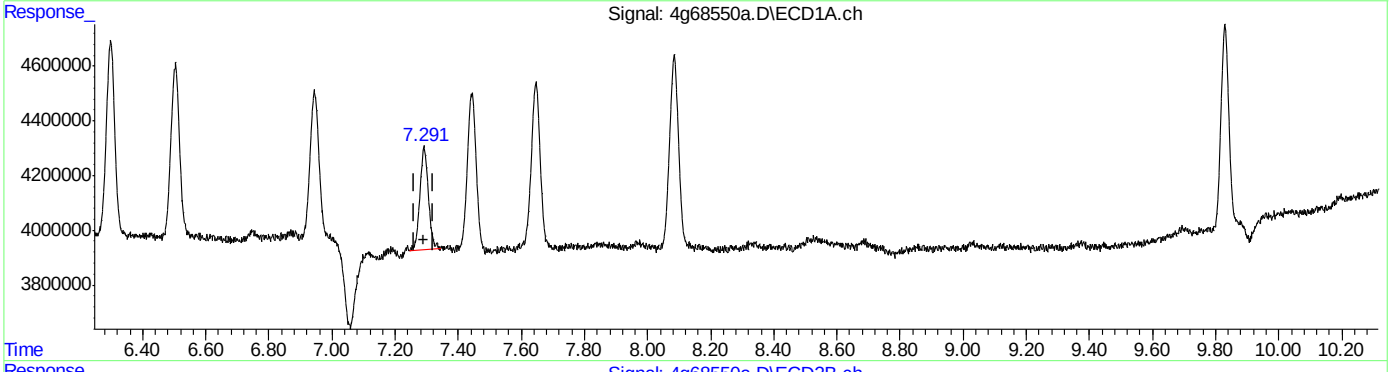
(+) = Expected Retention Time

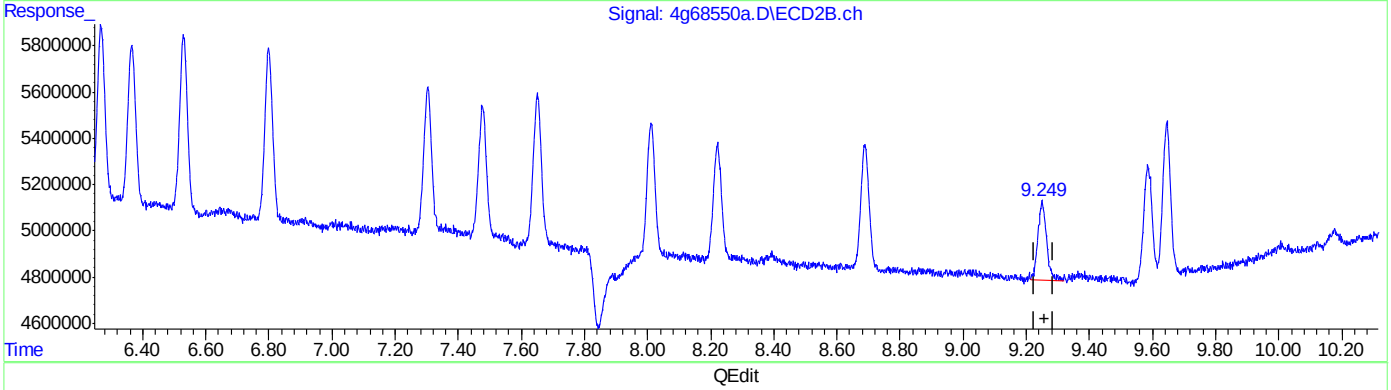
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(21) Methoxychlor (A)
7.291min 2.210 PPB m
response 7037401

(21) Methoxychlor #2 (A)
9.250min 2.468 PPB
response 6512446

(+) = Expected Retention Time
4PST1799.M Tue May 24 17:36:46 2016 RPT1

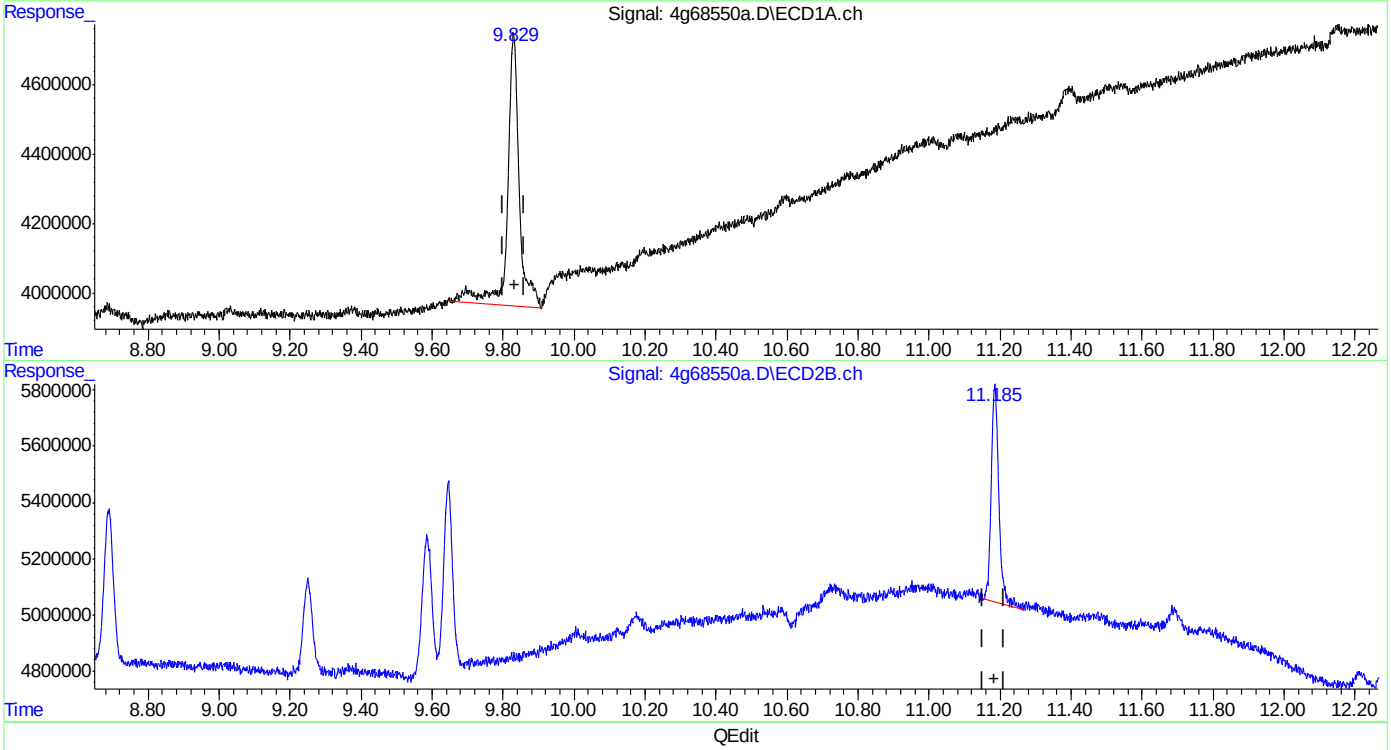
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.830min 2.430 PPB
response 18180941

(24) Decachlorobiphenyl #2 (SA)
11.185min 2.096 PPB
response 11546442

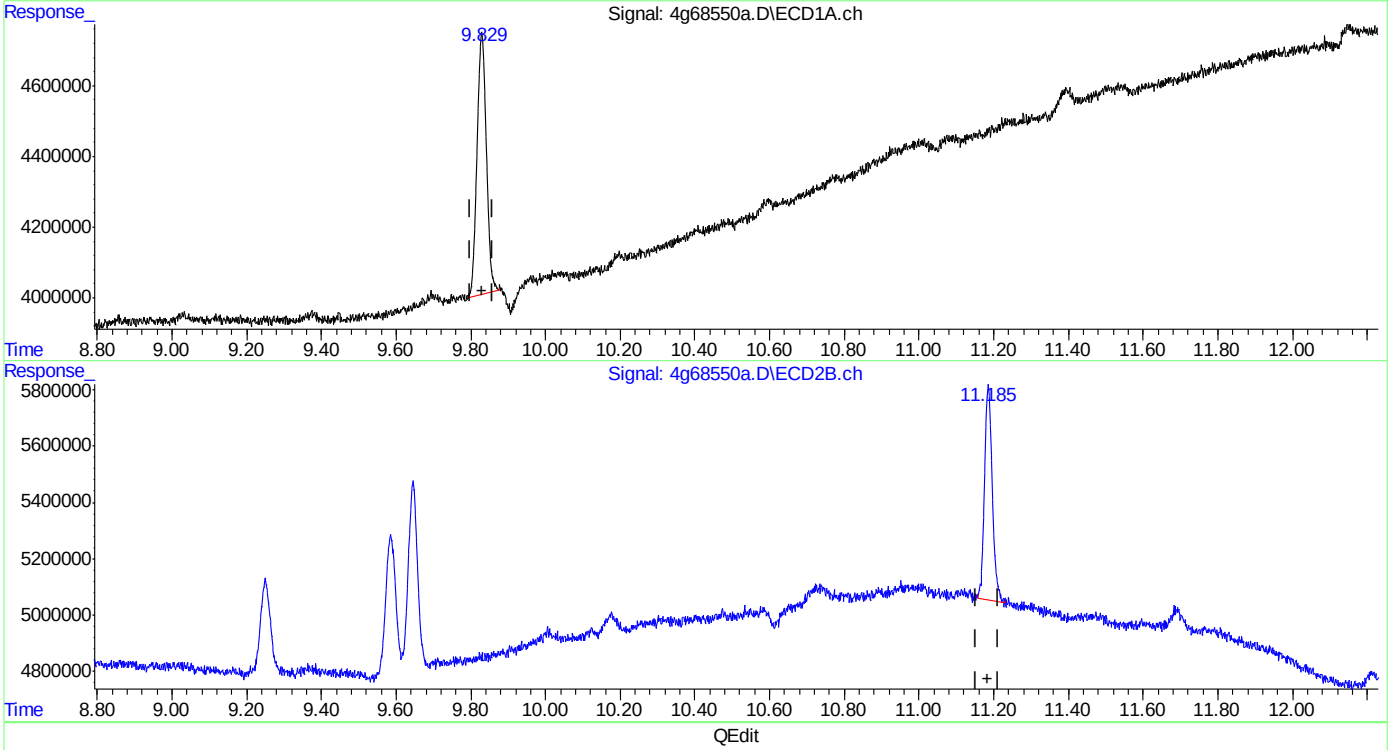
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68550a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 2:48 pm
Operator : rebeccak
Sample : ic1799-2
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:35:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.829min 1.723 PPB m
response 12891611

(24) Decachlorobiphenyl #2 (SA)
11.185min 1.979 PPB m
response 10902523

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68551a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:03 pm
Operator : rebeccak
Sample : ic1799-5
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:31:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.886	2.062	413.4E6	350.1E6	50.000	50.000
25) I	1-bromo-2...	1.886	2.062	413.4E6	350.1E6	50.000	50.000
31) I	1-bromo-2...	1.886	2.062	413.4E6	350.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.447	2.844	36237288	31895709	4.378	5.025
Spiked Amount		40.000	Range	30 - 150	Recovery	= 10.95%#	12.56%#
24) SA	Decachlor...	9.831	11.184	32568109	24314926	4.301m	4.330
Spiked Amount		40.000			Recovery	= 10.75%	10.82%
	Target Compounds						
3) A	alpha-BHC	2.921	3.492	46657030	41347590	4.720	4.751
4) MA	gamma-BHC	3.219	3.915	42839434	38233921	4.823	4.773
5) MA	Heptachlor	3.715	4.491	42438482	40034196	4.943	4.678
6) B	beta-BHC	3.295	3.993	20723549	18410277	4.632	4.977
7) B	delta-BHC	3.483	4.387	37547384	34647391	4.864	4.736
8) MB	Aldrin	4.056	4.941	38775893	35954675	4.792	4.396
9) B	Heptachlo...	4.788	5.760	36764515	32659861	4.908	4.439
10) B	gamma-Chl...	4.948	6.043	36617429	32778735	5.053	4.578
11) B	alpha-Chl...	5.121	6.269	36308145	31740326	4.760	4.505
12) A	Endosulfan I	5.310	6.366	35471411	30472237	4.453	4.370
13) B	4,4'-DDE	5.228	6.529	35872675	32570207	5.165	4.530
14) MA	Dieldrin	5.638	6.800	35598853	32226489	4.489	4.509
15) MA	Endrin	5.968	7.304	31826885	26110732	4.381	4.062
16) A	4,4'-DDD	6.082	7.477	27379792	24798902	4.492	4.267
17) B	Endosulfa...	6.299	7.650	32897792	29105697	4.601	4.490
18) MA	4,4'-DDT	6.503	8.010	28999038	25994276	6.858	5.363m
19) B	Endrin Al...	6.945	8.221	26395557	23033985	4.419	4.730
20) B	Endosulfa...	7.646	8.689	29684273	25277714	4.445	4.969
21) A	Methoxychlor	7.291	9.251	17471034	15304700	5.422	5.692
22)	Mirex	7.443	9.587	28418675	23016079	4.278	5.236
23) B	Endrin Ke...	8.084	9.645	34843334	28777152	4.849	5.254

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

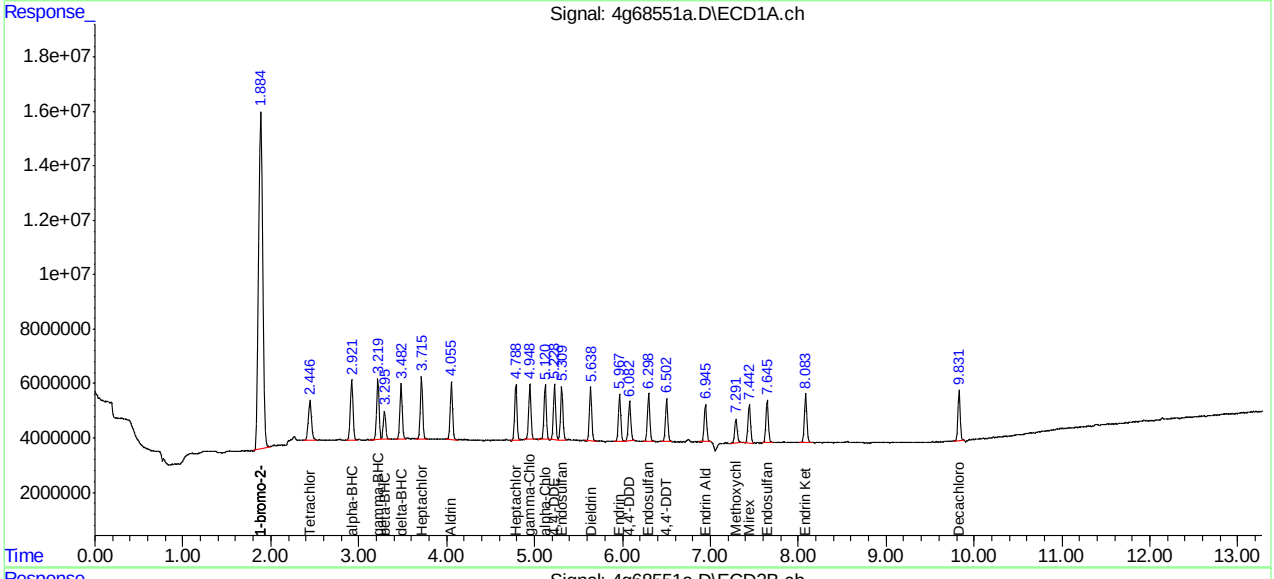
11.6.24 11

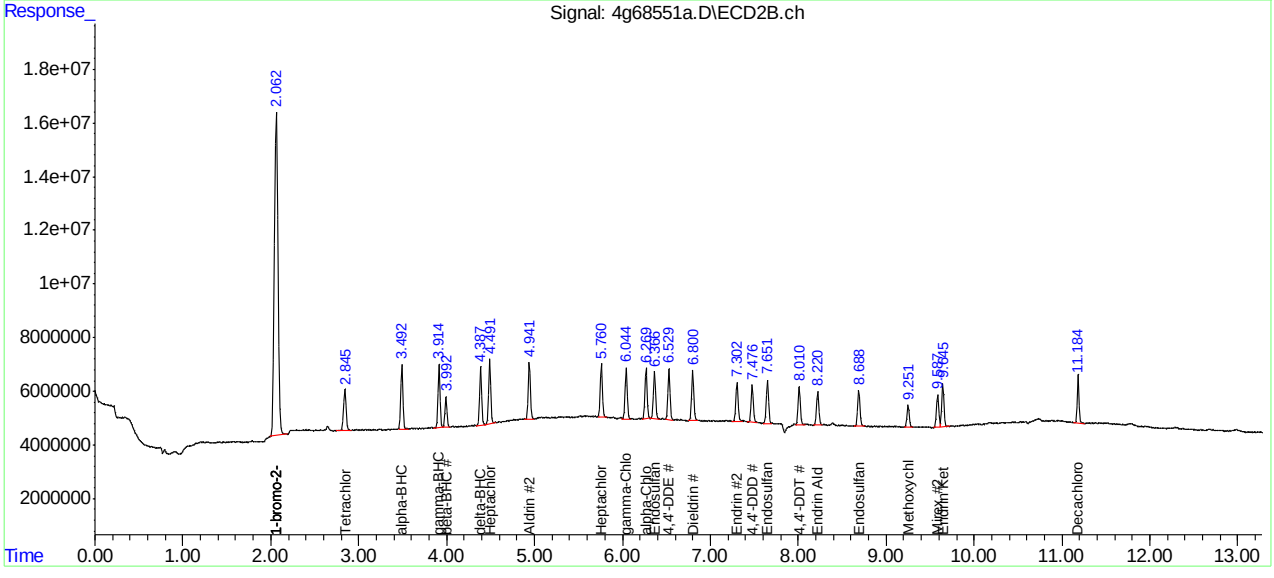
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68551a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:03 pm
Operator : rebeccak
Sample : ic1799-5
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:31:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68551A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 15:03	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

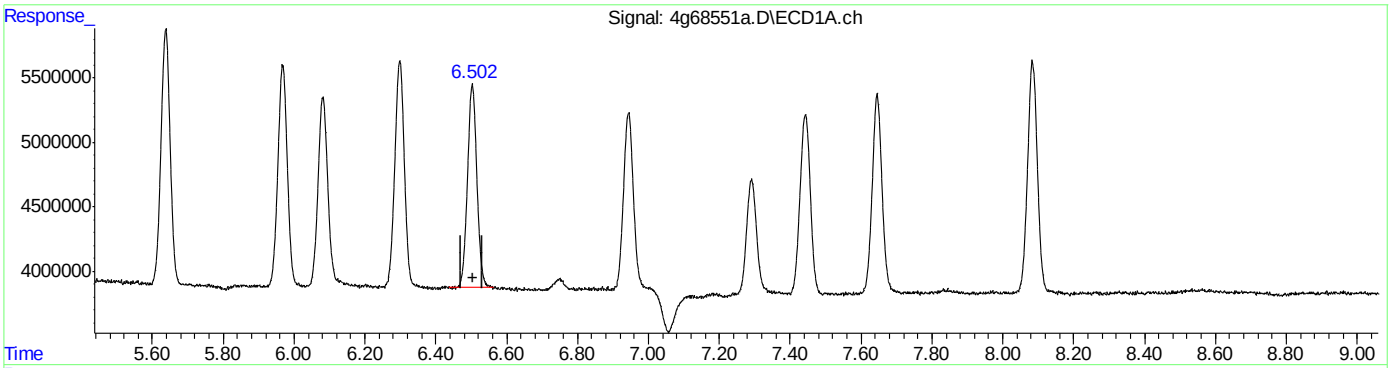
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.83	Poorly defined baseline

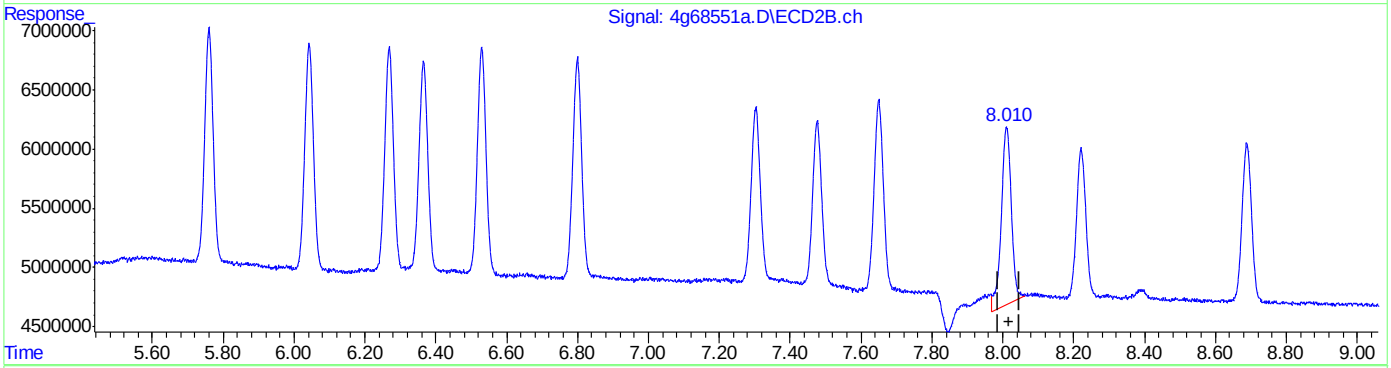
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68551a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:03 pm
Operator : rebeccak
Sample : ic1799-5
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.503min 6.858 PPB
response 28999038

(18) 4,4'-DDT #2 (MA)
8.010min 6.063 PPB
response 29384716

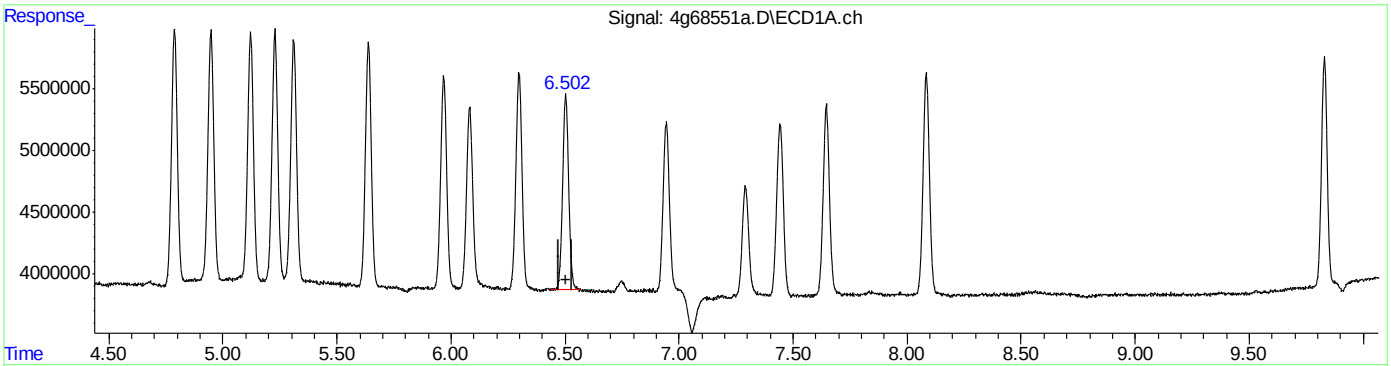
(+) = Expected Retention Time

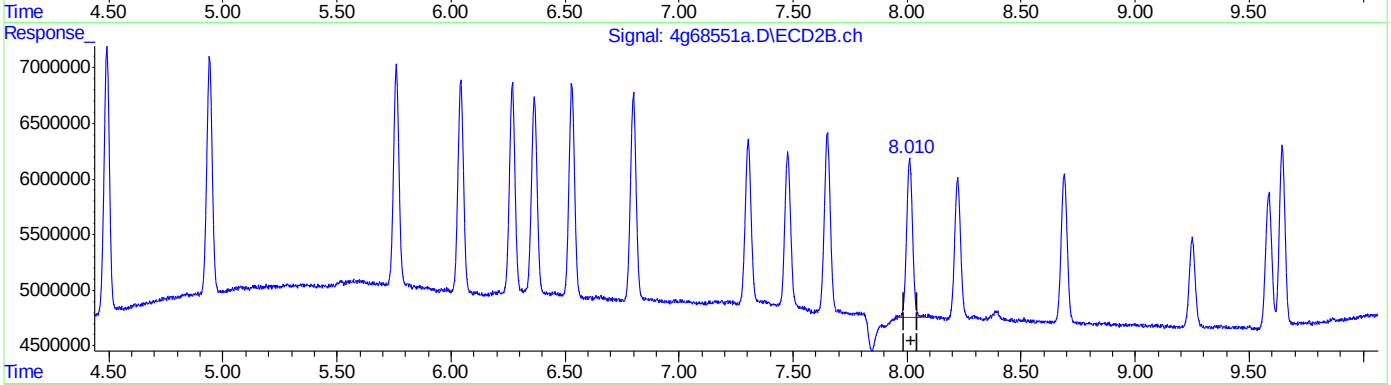
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68551a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:03 pm
Operator : rebeccak
Sample : ic1799-5
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.503min 6.858 PPB
response 28999038

(18) 4,4'-DDT #2 (MA)
8.010min 5.363 PPB m
response 25994276

(+) = Expected Retention Time

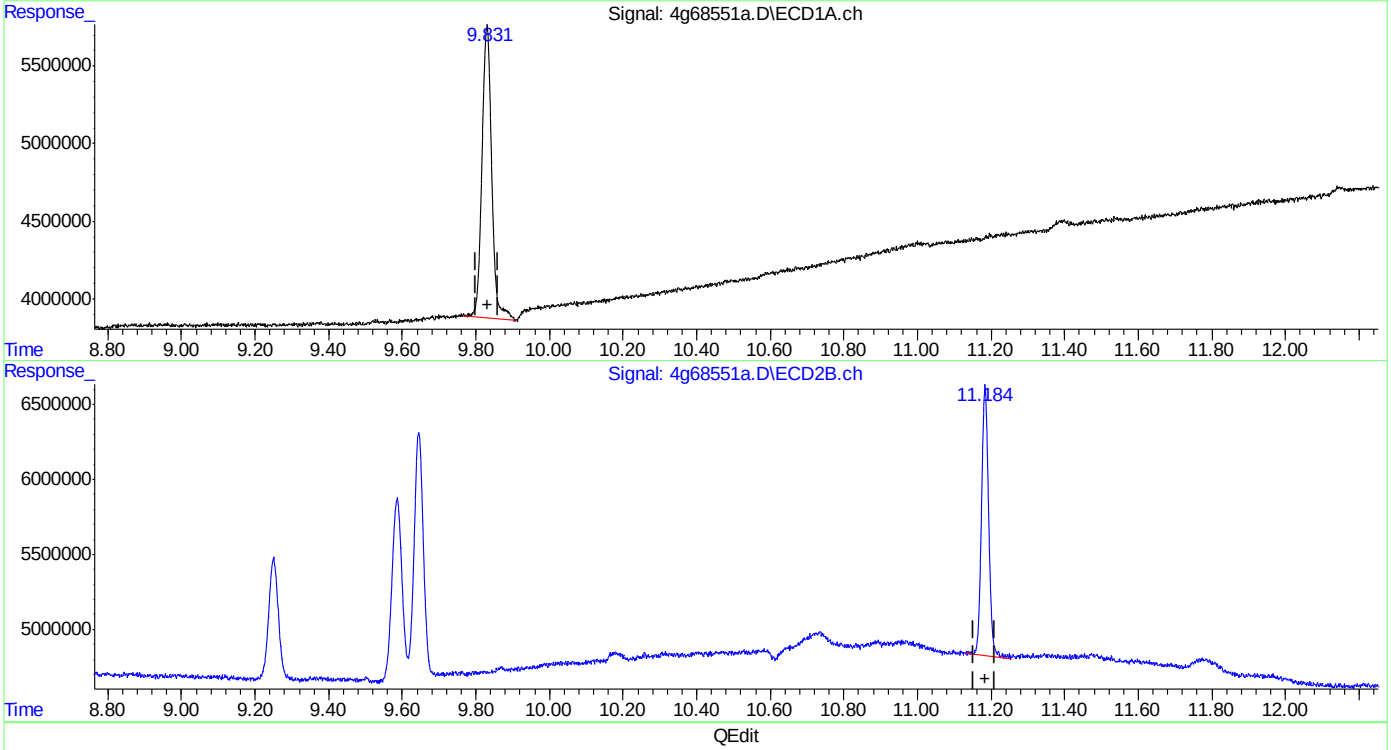
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68551a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:03 pm
Operator : rebeccak
Sample : ic1799-5
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.830min 4.568 PPB
response 34593190

(24) Decachlorobiphenyl #2 (SA)
11.184min 4.330 PPB
response 24314926

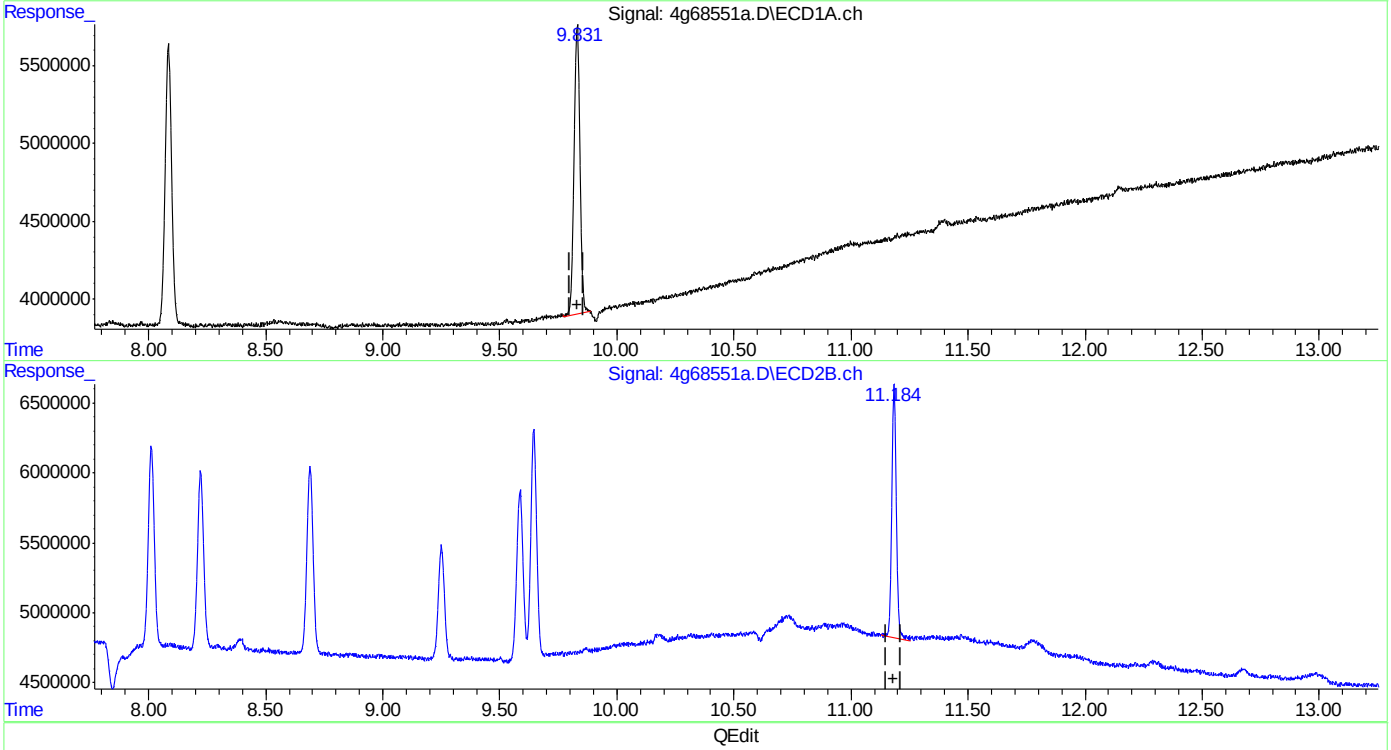
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68551a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:03 pm
Operator : rebeccak
Sample : ic1799-5
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:31:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.831min 4.301 PPB m
response 32568109

(24) Decachlorobiphenyl #2 (SA)
11.184min 4.330 PPB
response 24314926

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68552a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:18 pm
Operator : rebeccak
Sample : ic1799-10
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:32:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.887	2.063	409.9E6	345.7E6	50.000	50.000
25) I	1-bromo-2...	1.887	2.063	409.9E6	345.7E6	50.000	50.000
31) I	1-bromo-2...	1.887	2.063	409.9E6	345.7E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.447	2.845	69621126	61413250	8.482	9.798
Spiked Amount		40.000	Range	30 - 150	Recovery	= 21.20%#	24.50%#
24) SA	Decachlor...	9.830	11.184	62152261	46302486	8.277	8.350
Spiked Amount		40.000			Recovery	= 20.69%	20.88%
	Target Compounds						
3) A	alpha-BHC	2.922	3.492	90823208	81702356	9.267	9.506
4) MA	gamma-BHC	3.220	3.916	83456233	75351501	9.475	9.525
5) MA	Heptachlor	3.716	4.492	80909797	78029667	9.504	9.233
6) B	beta-BHC	3.295	3.994	40288716	35830230	9.081	9.809
7) B	delta-BHC	3.483	4.389	73295823	67750329	9.576	9.378
8) MB	Aldrin	4.056	4.943	75079322	70460069	9.357	8.723
9) B	Heptachlo...	4.788	5.761	71134307	65417868	9.578	9.004
10) B	gamma-Chl...	4.948	6.044	70334046	63840422	9.789	9.028
11) B	alpha-Chl...	5.122	6.270	69421476	63101898	9.178	9.071
12) A	Endosulfan I	5.311	6.366	68119211	61092776	8.623	8.873
13) B	4,4'-DDE	5.229	6.531	69396233	64596763	10.077	9.098
14) MA	Dieldrin	5.638	6.801	70088486	63265530	8.913	8.964
15) MA	Endrin	5.969	7.305	62082488	51720590	8.618	8.148
16) A	4,4'-DDD	6.082	7.479	56367172	49365290	9.325m	8.601
17) B	Endosulfa...	6.299	7.652	63987439	57288910	9.025	8.950
18) MA	4,4'-DDT	6.504	8.011	57195011	50180276	12.446	10.484m
19) B	Endrin Al...	6.944	8.222	51278894	44570902	8.657	9.268
20) B	Endosulfa...	7.646	8.692	57194642	48079589	8.638	9.570
21) A	Methoxychlor	7.292	9.251	33055382	28235847	10.345	10.634
22)	Mirex	7.443	9.587	53995746	43005854	8.197	9.908
23) B	Endrin Ke...	8.084	9.646	67733992	55447936	9.506	10.252

SemiQuant Compounds - Not Calibrated on this Instrument

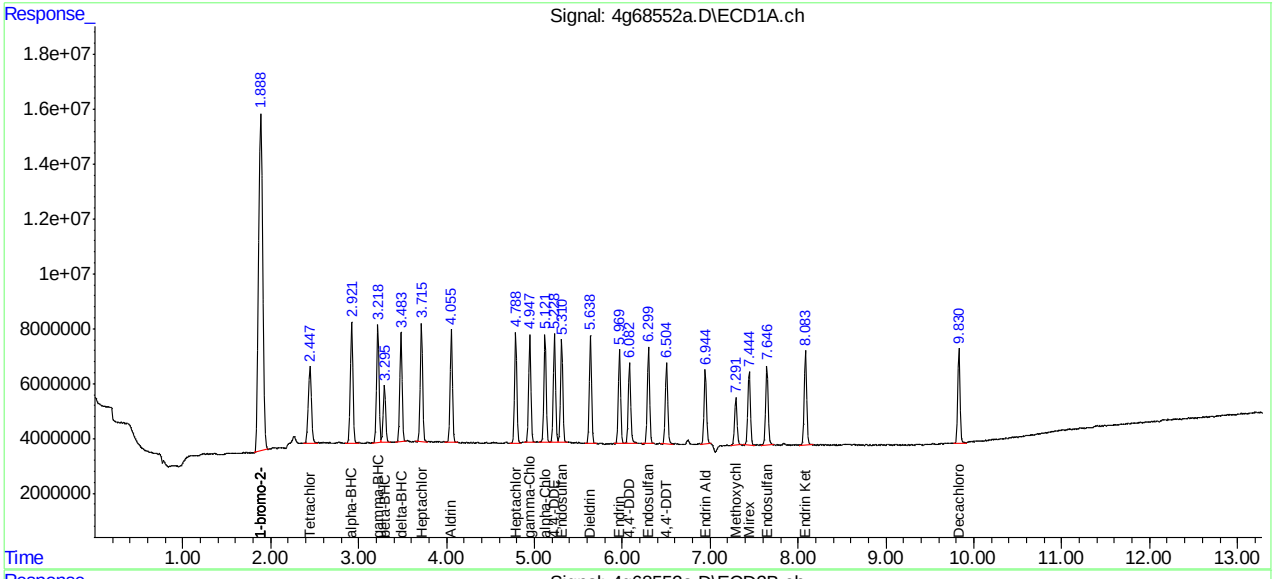
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

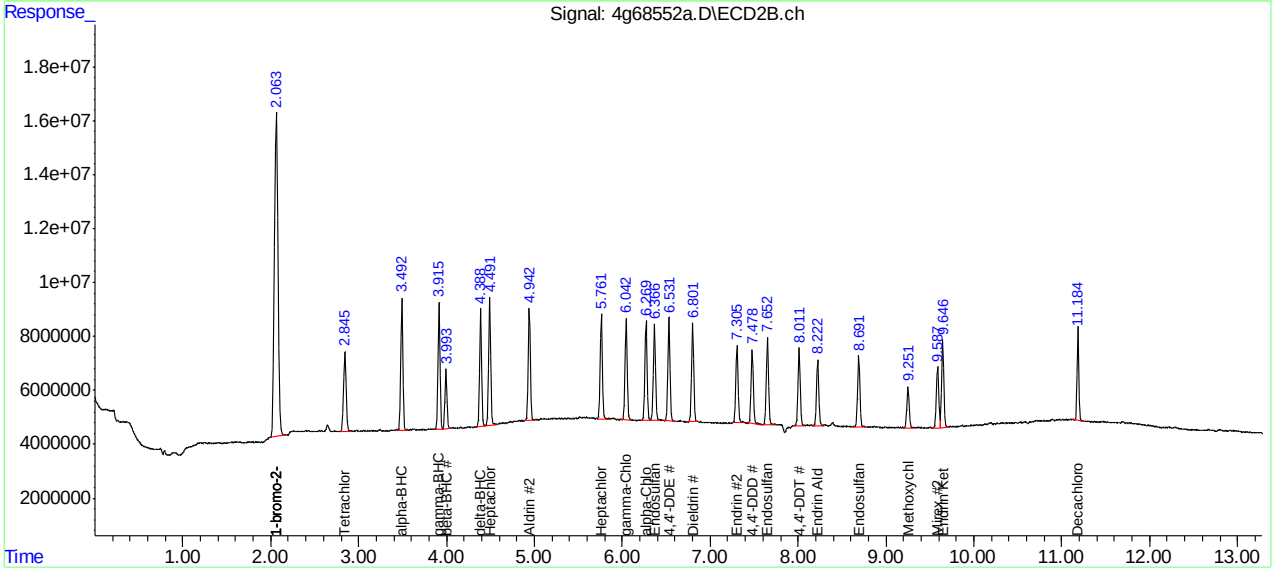
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68552a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:18 pm
Operator : rebeccak
Sample : ic1799-10
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:32:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68552A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 15:18	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

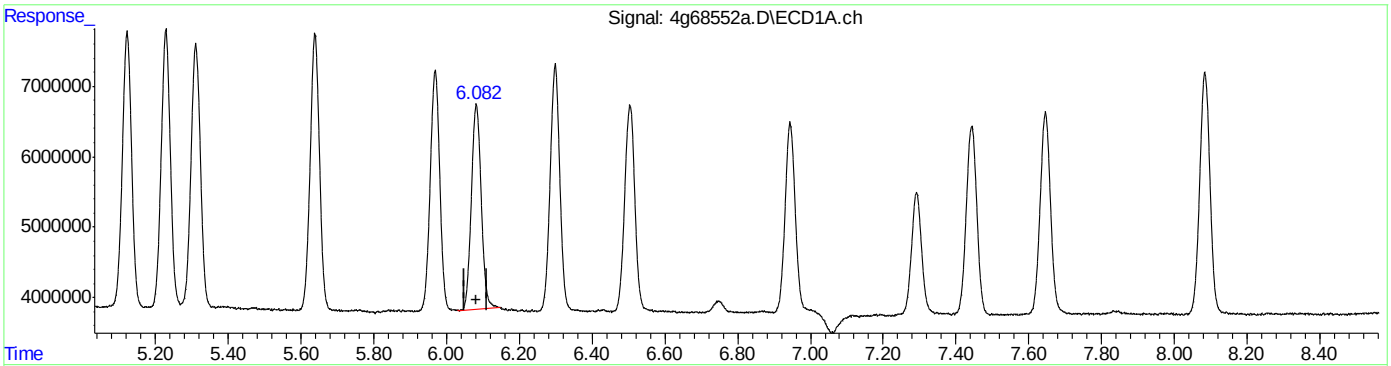
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDD	72-54-8	1	6.08	Poorly defined baseline
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline

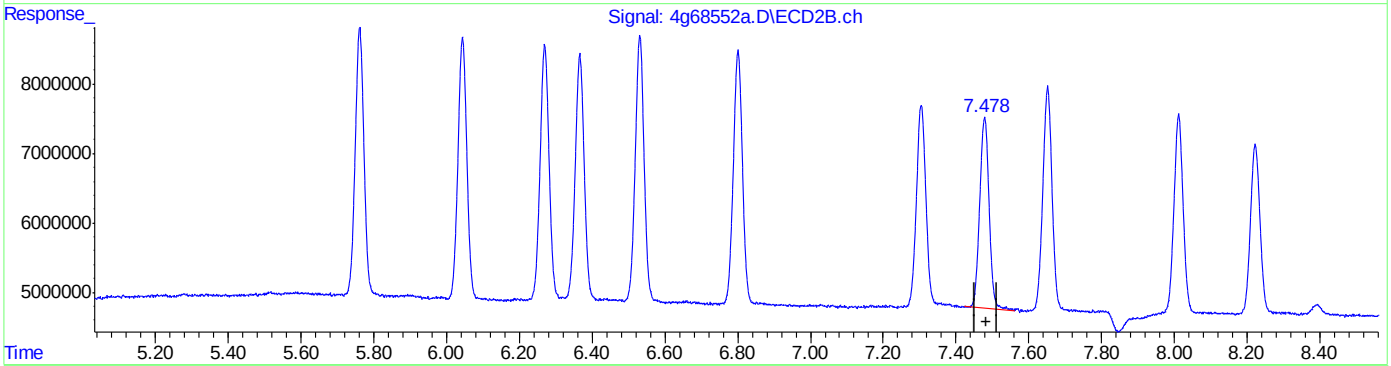
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68552a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:18 pm
Operator : rebeccak
Sample : ic1799-10
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:32:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.082min 9.074 PPB
response 54847422

(16) 4,4'-DDD #2 (A)
7.479min 8.601 PPB
response 49365290

(+) = Expected Retention Time
4PST1799.M Wed May 25 09:32:33 2016 RPT1

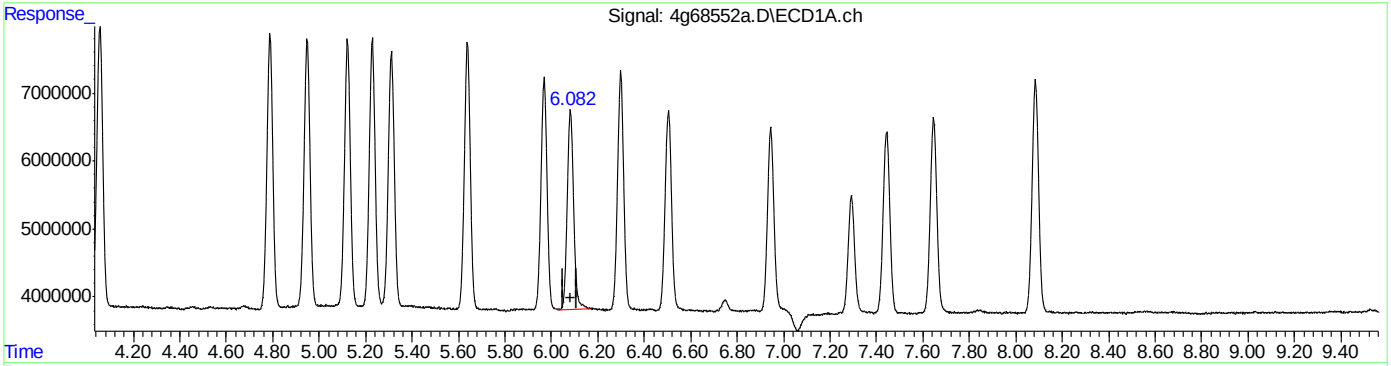
SGS ACCUTEST JC21229

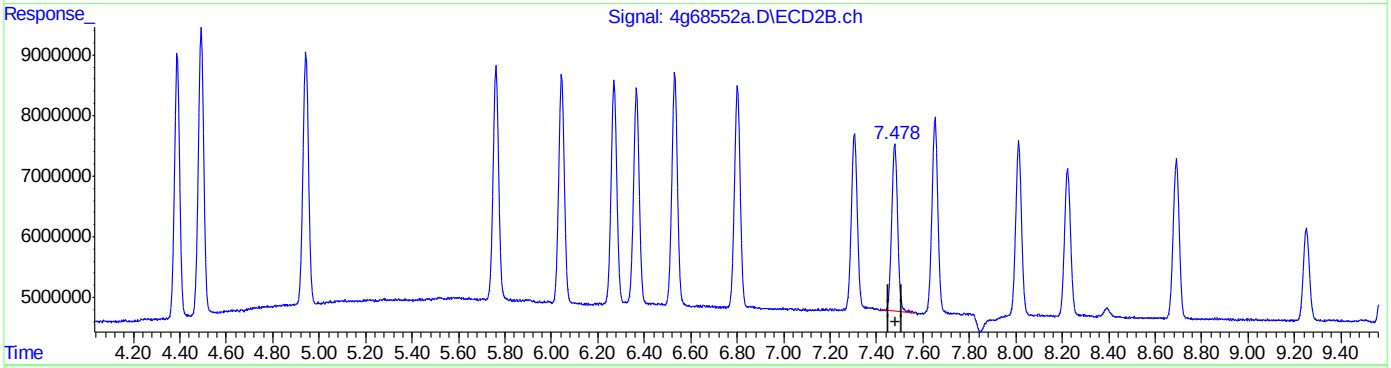
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68552a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:18 pm
Operator : rebeccak
Sample : ic1799-10
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:32:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(16) 4,4'-DDD (A)
6.082min 9.325 PPB m
response 56367172

(16) 4,4'-DDD #2 (A)
7.479min 8.601 PPB
response 49365290

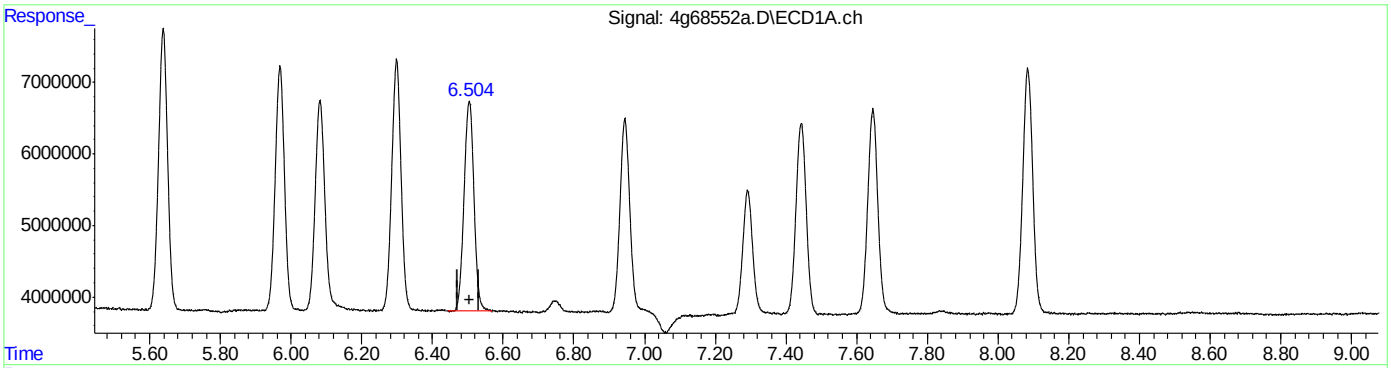
(+) = Expected Retention Time

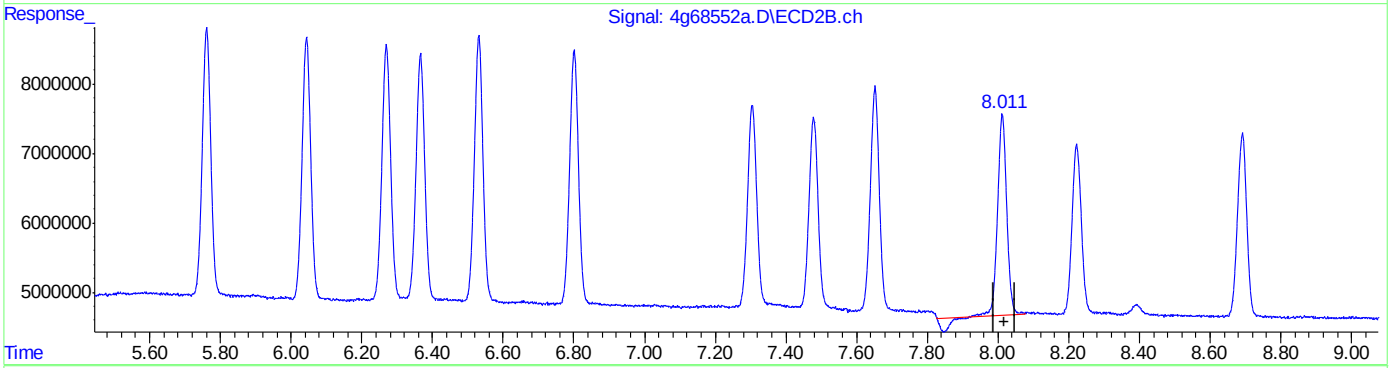
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68552a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:18 pm
Operator : rebeccak
Sample : ic1799-10
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:32:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.504min 12.446 PPB
response 57195011

(18) 4,4'-DDT #2 (MA)
8.012min 10.079 PPB
response 48241270

(+) = Expected Retention Time

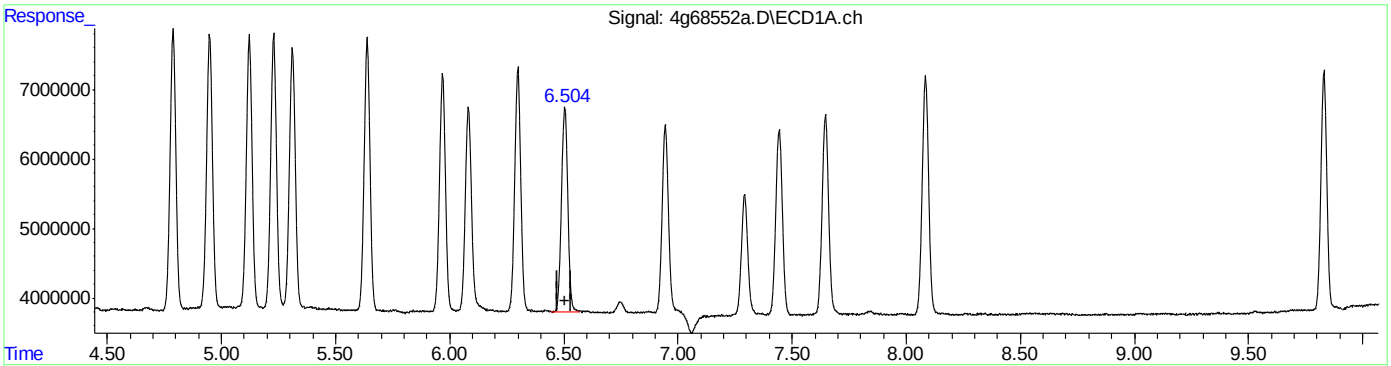
SGS ACCUTEST JC21229

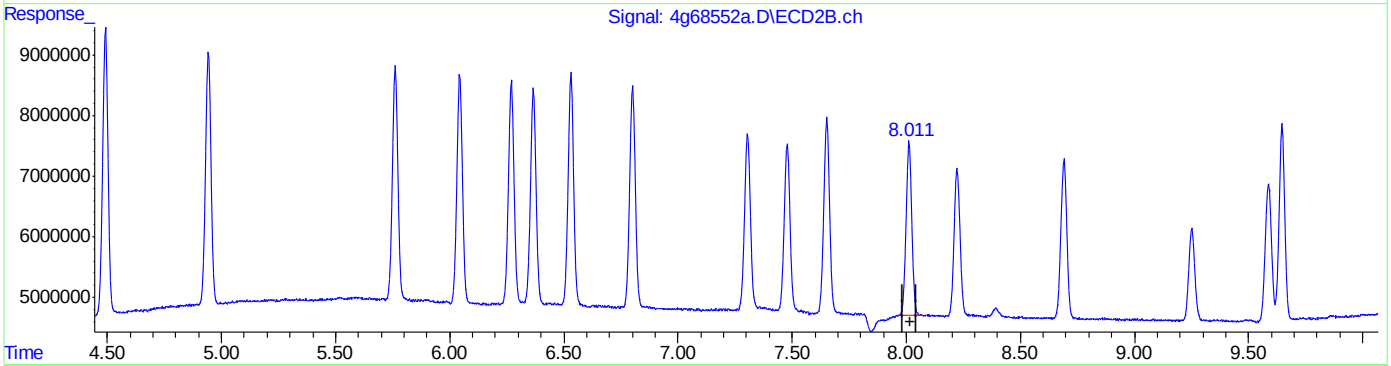
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68552a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:18 pm
Operator : rebeccak
Sample : ic1799-10
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:32:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.504min 12.446 PPB
response 57195011

(18) 4,4'-DDT #2 (MA)
8.011min 10.484 PPB m
response 50180276

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68553a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:33 pm
Operator : rebeccak
Sample : icc1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:34:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.888	2.065	412.0E6	346.5E6	50.000	50.000
25) I	1-bromo-2...	1.888	2.065	412.0E6	346.5E6	50.000	50.000
31) I	1-bromo-2...	1.888	2.065	412.0E6	346.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.448	2.846	174.2E6	152.9E6	21.112	24.346
Spiked Amount		40.000 Range	30 - 150	Recovery	=	52.78%	60.87%
24) SA	Decachlor...	9.831	11.183	148.8E6	107.2E6	19.714	19.288m
Spiked Amount		40.000		Recovery	=	49.28%	48.22%
	Target Compounds						
3) A	alpha-BHC	2.923	3.493	237.5E6	218.0E6	24.114	25.310
4) MA	gamma-BHC	3.220	3.916	216.3E6	196.7E6	24.437	24.813
5) MA	Heptachlor	3.716	4.492	204.7E6	197.9E6	23.922	23.363
6) B	beta-BHC	3.295	3.995	100.1E6	88850870	22.449	24.271
7) B	delta-BHC	3.484	4.389	193.0E6	178.3E6	25.085	24.626
8) MB	Aldrin	4.057	4.943	191.0E6	181.4E6	23.690	22.411
9) B	Heptachlo...	4.789	5.762	179.2E6	165.4E6	24.010	22.713
10) B	gamma-Chl...	4.949	6.044	177.3E6	164.1E6	24.552	23.159
11) B	alpha-Chl...	5.122	6.270	173.8E6	160.6E6	22.868	23.035
12) A	Endosulfan I	5.311	6.367	170.9E6	155.9E6	21.519	22.595
13) B	4,4'-DDE	5.229	6.531	175.7E6	165.0E6	25.386	23.191
14) MA	Dieldrin	5.638	6.801	178.0E6	163.4E6	22.521	23.098
15) MA	Endrin	5.969	7.304	154.5E6	131.4E6	21.338	20.662
16) A	4,4'-DDD	6.082	7.478	140.5E6	125.3E6	23.133	21.794
17) B	Endosulfa...	6.299	7.651	158.6E6	143.5E6	22.257	22.379
18) MA	4,4'-DDT	6.504	8.011	140.8E6	127.2E6	27.421	26.519m
19) B	Endrin Al...	6.945	8.223	130.7E6	112.7E6	21.962	23.387
20) B	Endosulfa...	7.646	8.691	140.8E6	120.9E6	21.163	24.020
21) A	Methoxychlor	7.291	9.250	81579646	69746189	25.403	26.210
22)	Mirex	7.444	9.586	130.1E6	107.0E6	19.655	24.603 #
23) B	Endrin Ke...	8.084	9.646	169.1E6	140.6E6	23.606	25.936

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

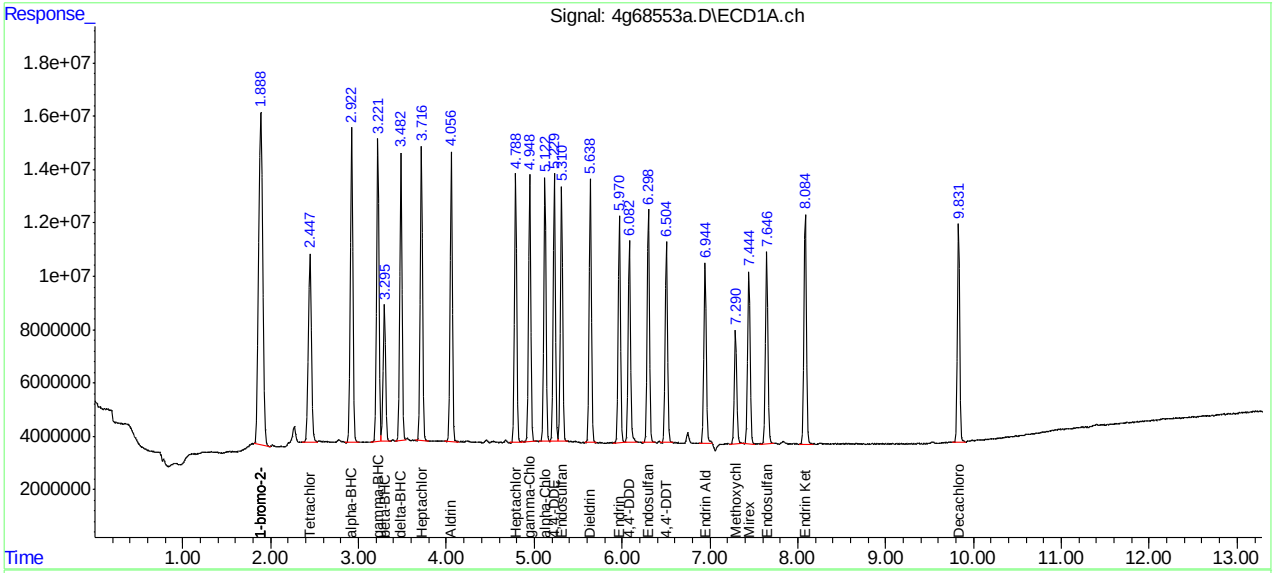
11.6.26 11

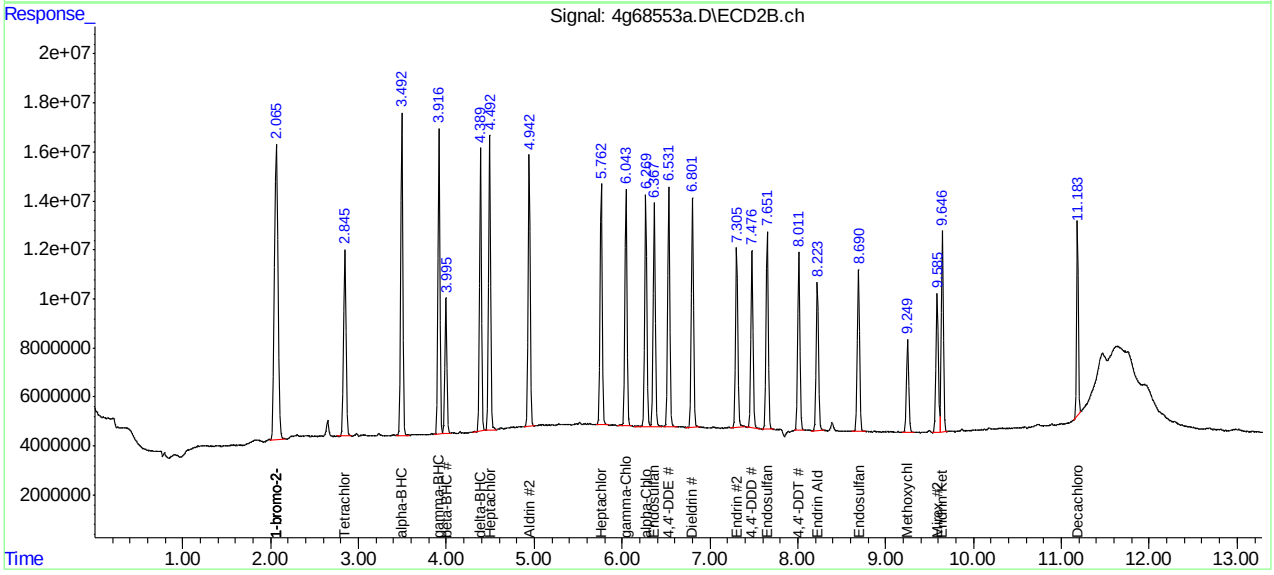
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68553a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:33 pm
Operator : rebeccak
Sample : icc1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:34:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1799-ICC1799	**Method:**	SW846 8081B
Lab FileID:	4G68553A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 15:33	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

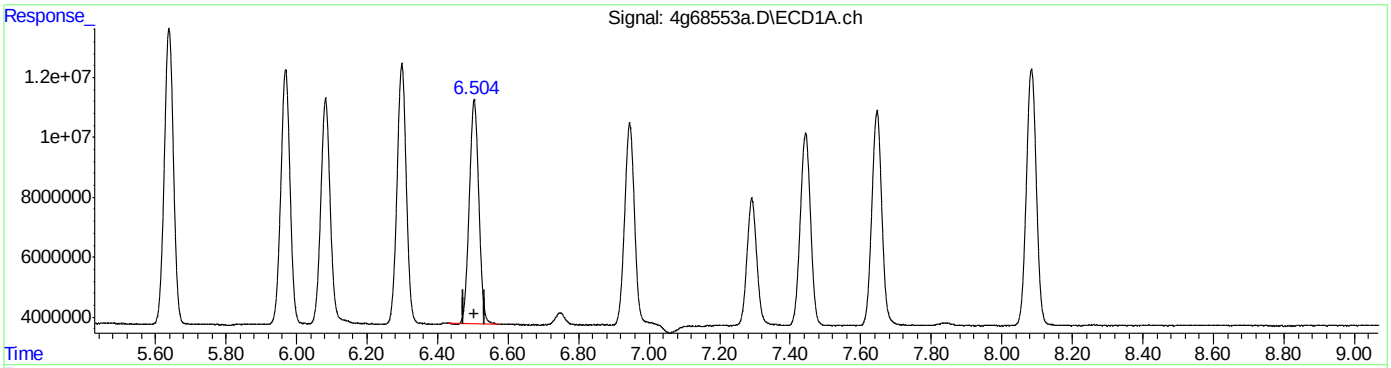
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.18	Poorly defined baseline

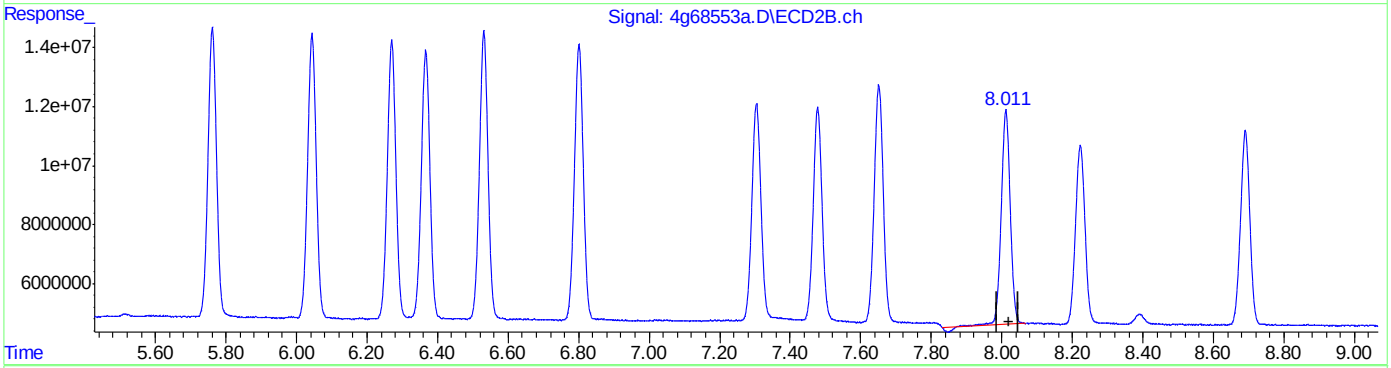
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68553a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:33 pm
Operator : rebeccak
Sample : icc1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:33:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.504min 27.421 PPB
response 140826322

(18) 4,4'-DDT #2 (MA)
8.012min 26.978 PPB
response 129402588

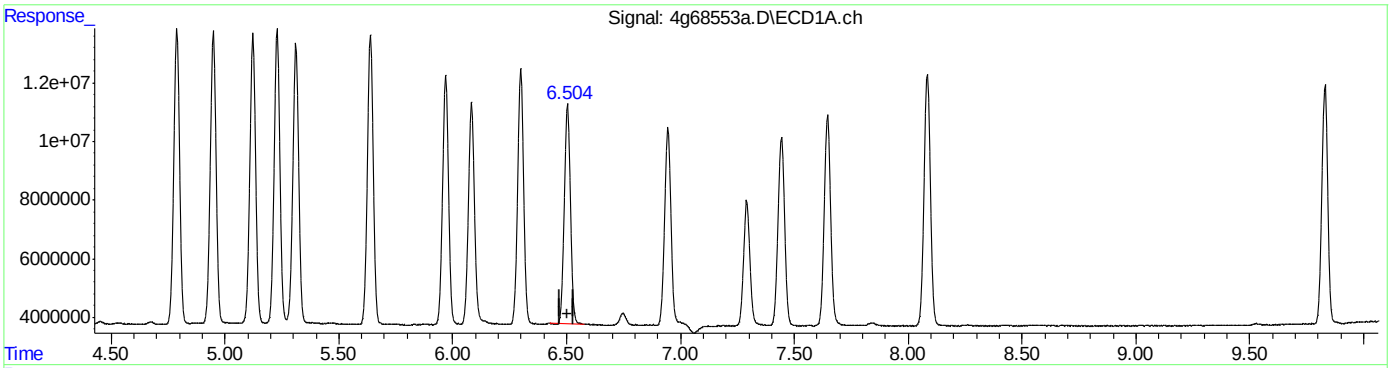
(+) = Expected Retention Time

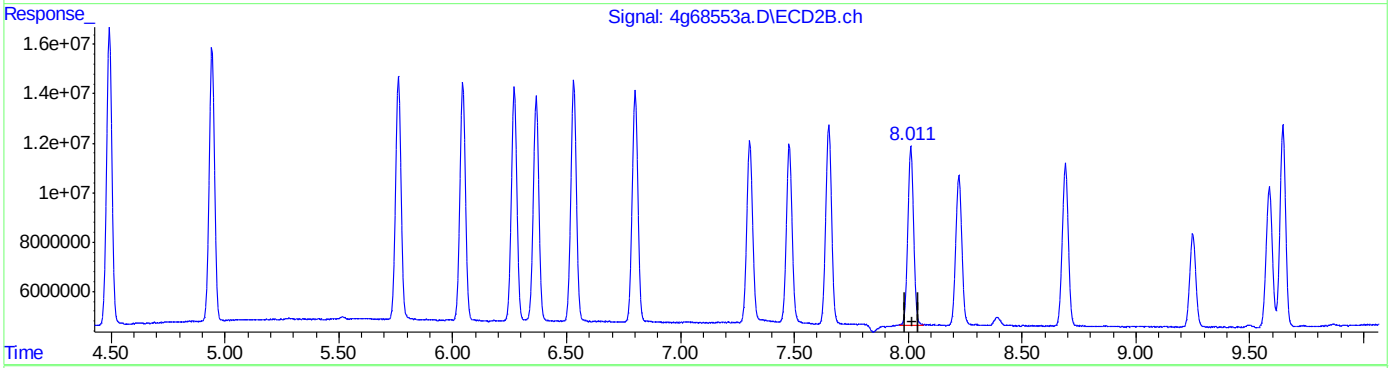
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68553a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:33 pm
Operator : rebeccak
Sample : icc1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:33:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.504min 27.421 PPB
response 140826322

(18) 4,4'-DDT #2 (MA)
8.011min 26.519 PPB m
response 127203609

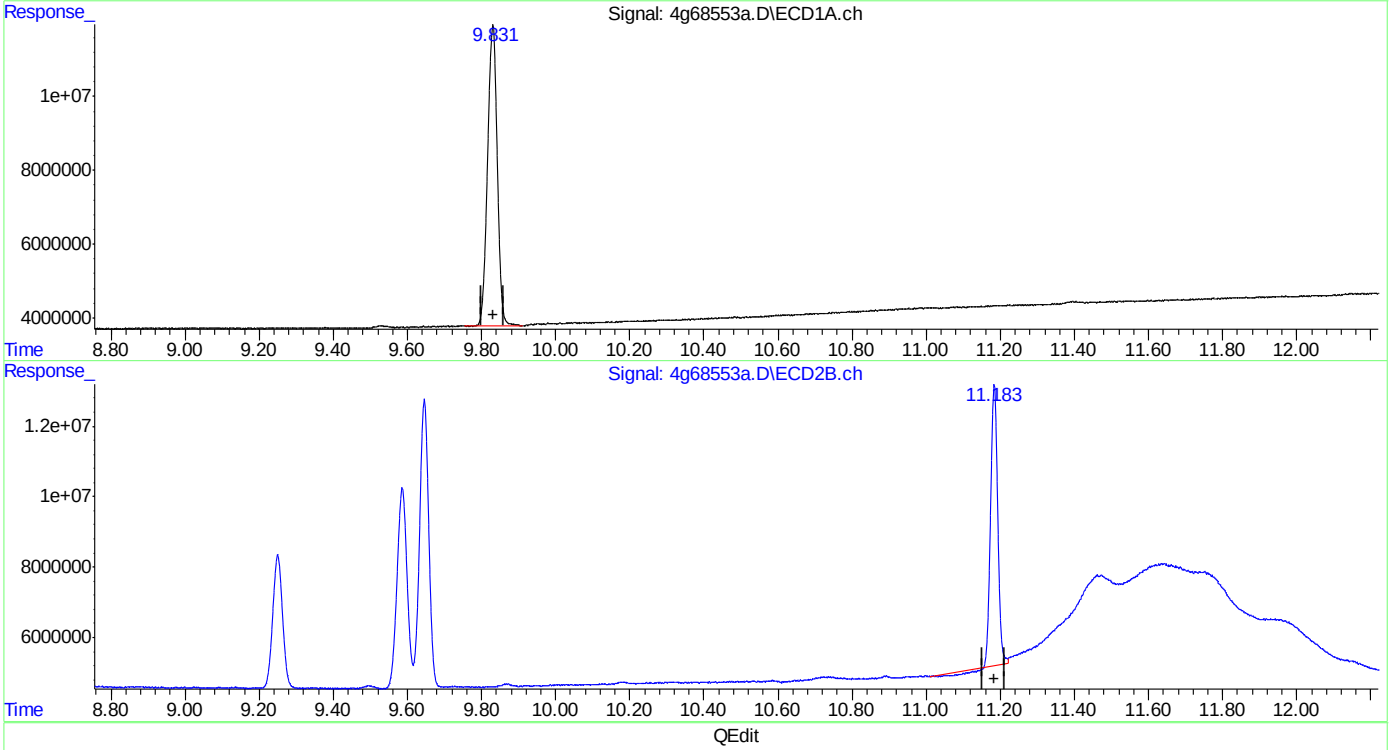
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68553a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:33 pm
Operator : rebeccak
Sample : icc1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:33:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.831min 19.714 PPB
response 148773385

(24) Decachlorobiphenyl #2 (SA)
11.184min 18.518 PPB
response 102906440

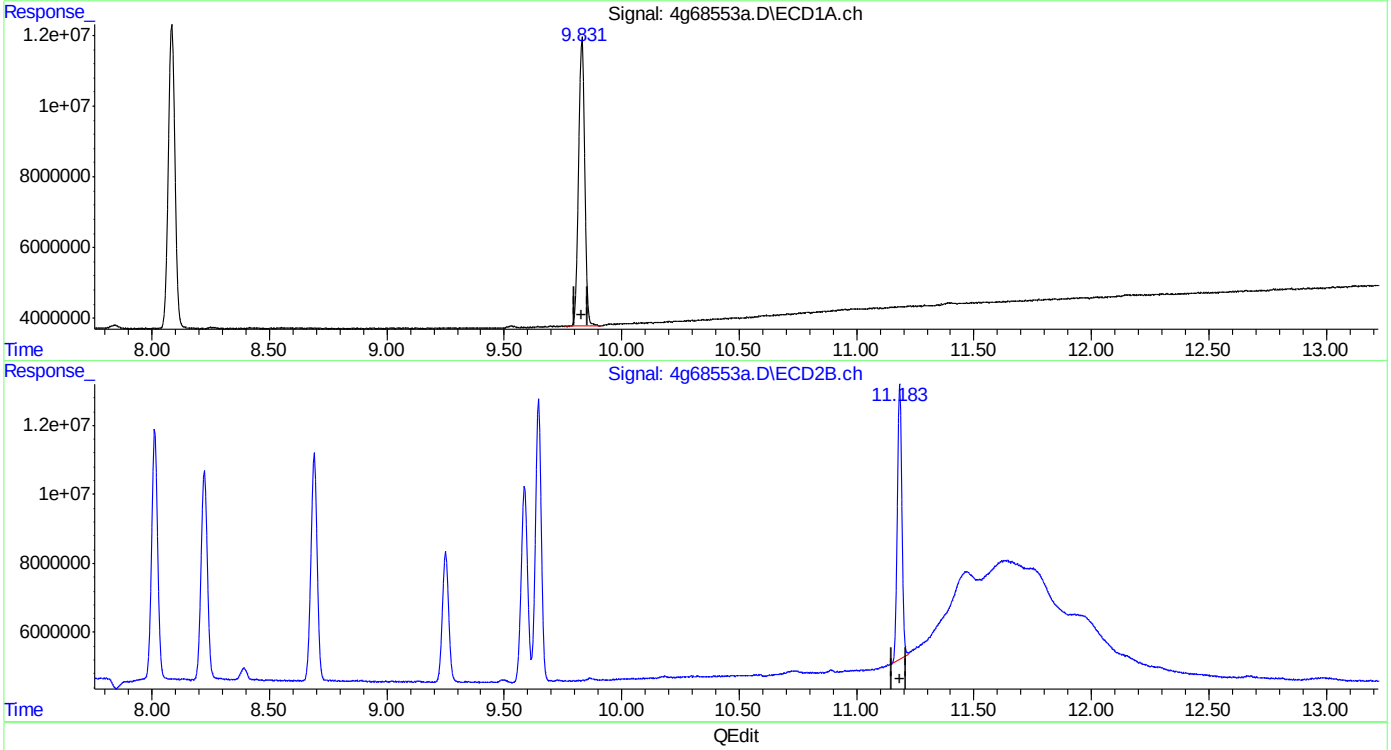
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68553a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:33 pm
Operator : rebeccak
Sample : icc1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:33:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.831min 19.714 PPB
response 148773385

(24) Decachlorobiphenyl #2 (SA)
11.183min 19.288 PPB m
response 107185444

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68554a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:48 pm
Operator : rebeccak
Sample : ic1799-50
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:26:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.889	2.065	403.1E6	344.1E6	50.000	50.000
25) I	1-bromo-2...	1.889	2.065	403.1E6	344.1E6	50.000	50.000
31) I	1-bromo-2...	1.889	2.065	403.1E6	344.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.449	2.846	355.0E6	311.8E6	43.991	49.985
Spiked Amount		40.000 Range	30 - 150	Recovery	=	109.98%	124.96%
24) SA	Decachlor...	9.828	11.182	289.3E6	213.8E6	39.183m	38.731m
Spiked Amount		40.000		Recovery	=	97.96%	96.83%
	Target Compounds						
3) A	alpha-BHC	2.923	3.494	499.4E6	461.4E6	51.823	53.935
4) MA	gamma-BHC	3.221	3.916	450.2E6	413.8E6	51.986	52.553
5) MA	Heptachlor	3.716	4.493	421.8E6	414.3E6	50.397	49.260
6) B	beta-BHC	3.296	3.995	200.8E6	180.3E6	46.037	49.596
7) B	delta-BHC	3.483	4.389	410.9E6	380.9E6	54.607	52.971
8) MB	Aldrin	4.057	4.943	397.2E6	379.9E6	50.347	47.261
9) B	Heptachlo...	4.789	5.762	366.1E6	341.9E6	50.134	47.283
10) B	gamma-Chl...	4.949	6.044	363.0E6	340.6E6	51.382	48.394
11) B	alpha-Chl...	5.122	6.270	354.9E6	329.2E6	47.715	47.546
12) A	Endosulfan I	5.311	6.366	350.3E6	320.1E6	45.096	46.714
13) B	4,4'-DDE	5.229	6.531	362.6E6	342.6E6	53.557	48.486
14) MA	Dieldrin	5.639	6.801	369.9E6	343.5E6	47.834	48.894
15) MA	Endrin	5.969	7.304	317.7E6	281.5E6	44.850	44.561
16) A	4,4'-DDD	6.081	7.478	290.4E6	267.7E6	48.865	46.859
17) B	Endosulfa...	6.298	7.651	323.7E6	295.1E6	46.439	46.316
18) MA	4,4'-DDT	6.503	8.011	295.0E6	270.6E6	52.380	56.805m
19) B	Endrin Al...	6.944	8.222	260.1E6	231.3E6	44.658	48.318
20) B	Endosulfa...	7.646	8.690	282.0E6	245.5E6	43.317	49.095
21) A	Methoxychlor	7.291	9.250	161.3E6	140.0E6	51.338	52.957
22)	Mirex	7.443	9.587	252.2E6	210.7E6	38.939	48.762 #
23) B	Endrin Ke...	8.085	9.646	342.8E6	289.1E6	48.928	53.698

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.27 11

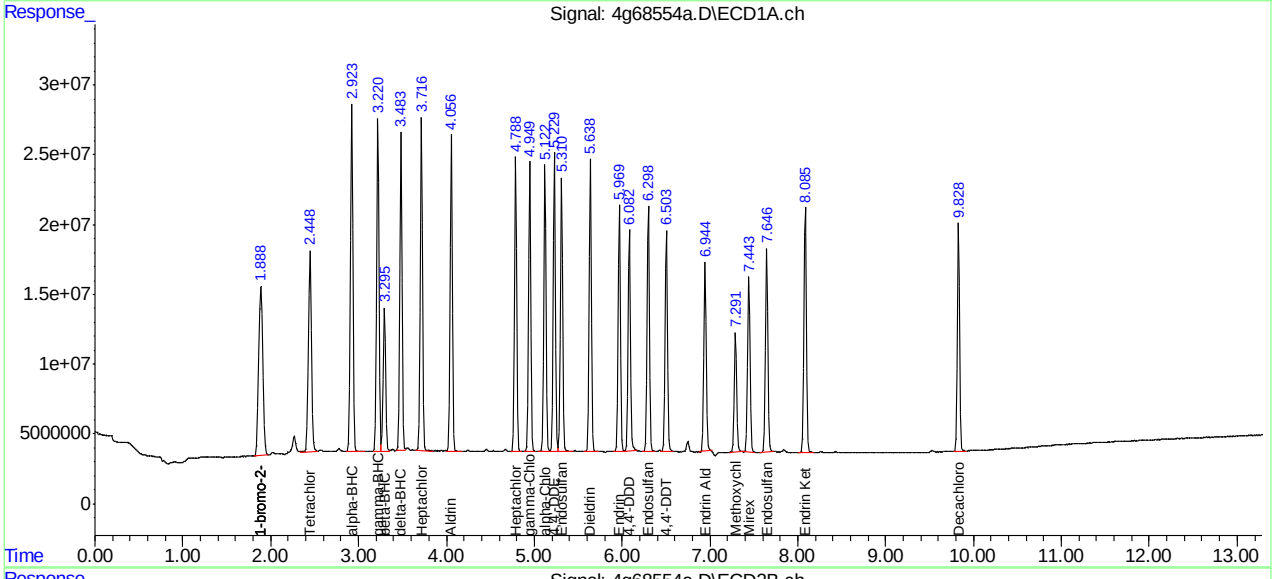
SGS ACCUTEST JC21229

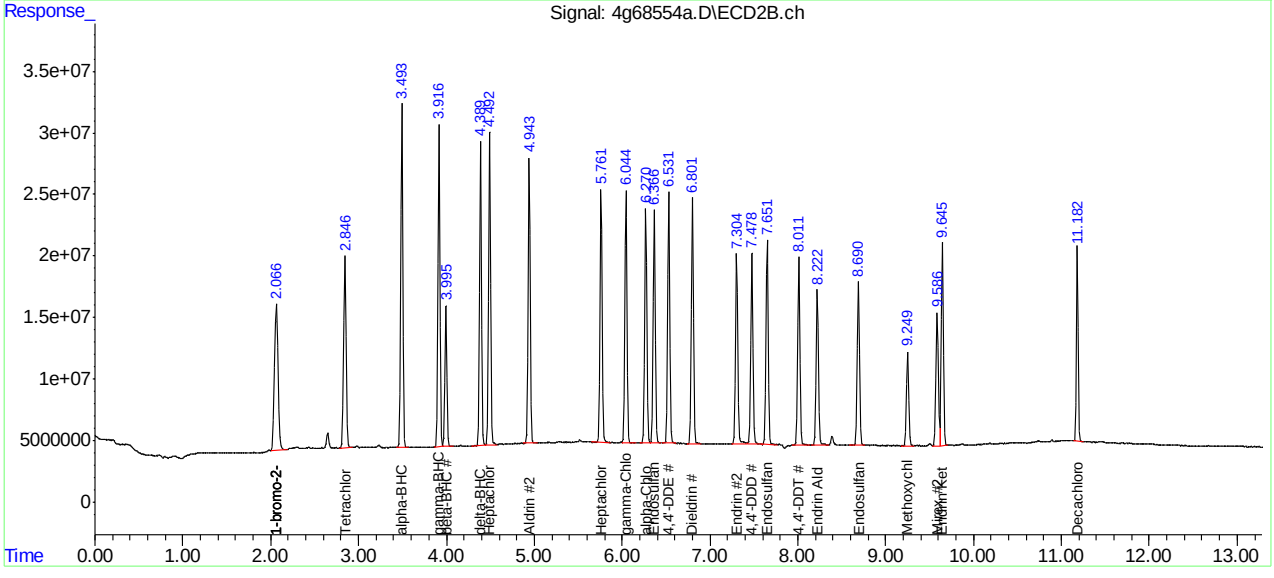
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68554a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:48 pm
Operator : rebeccak
Sample : ic1799-50
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:26:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68554A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 15:48	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

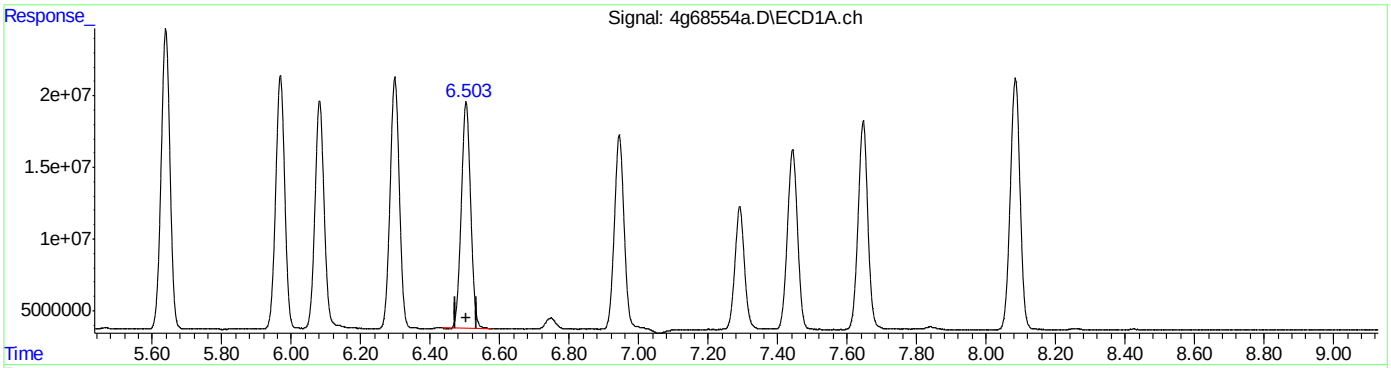
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	2	8.01	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.83	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.18	Poorly defined baseline

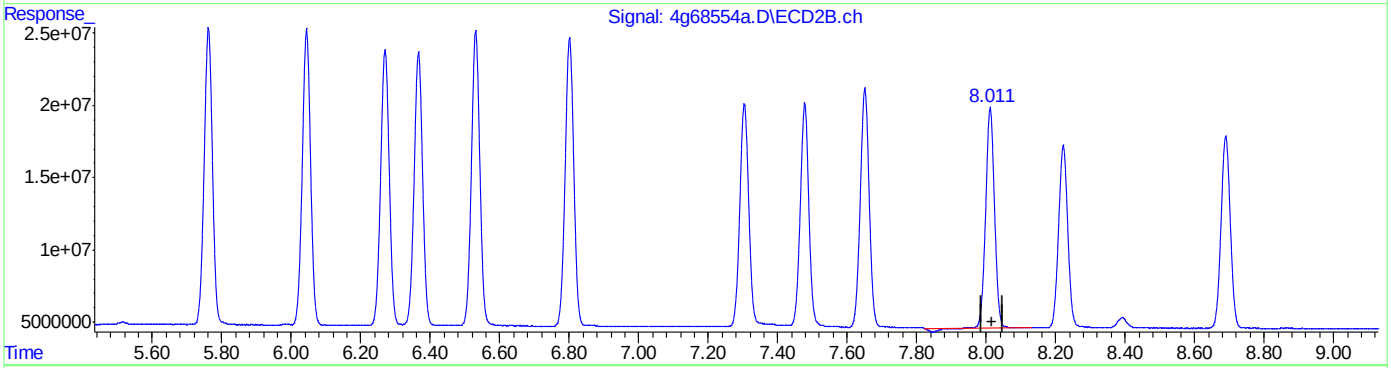
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68554a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:48 pm
Operator : rebeccak
Sample : ic1799-50
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:25:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.503min 52.380 PPB
response 294984241

(18) 4,4'-DDT #2 (MA)
8.012min 55.718 PPB
response 265426524

(+) = Expected Retention Time

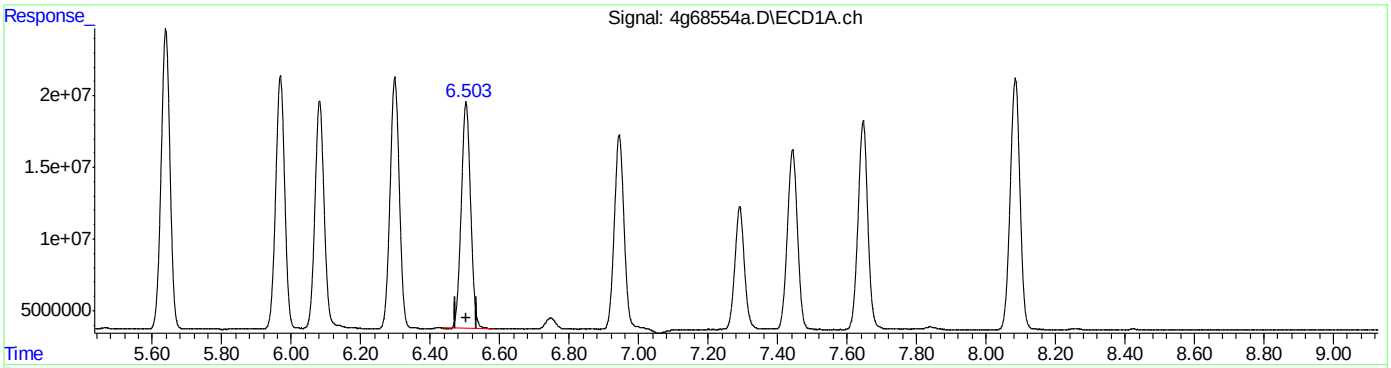
SGS ACCUTEST JC21229

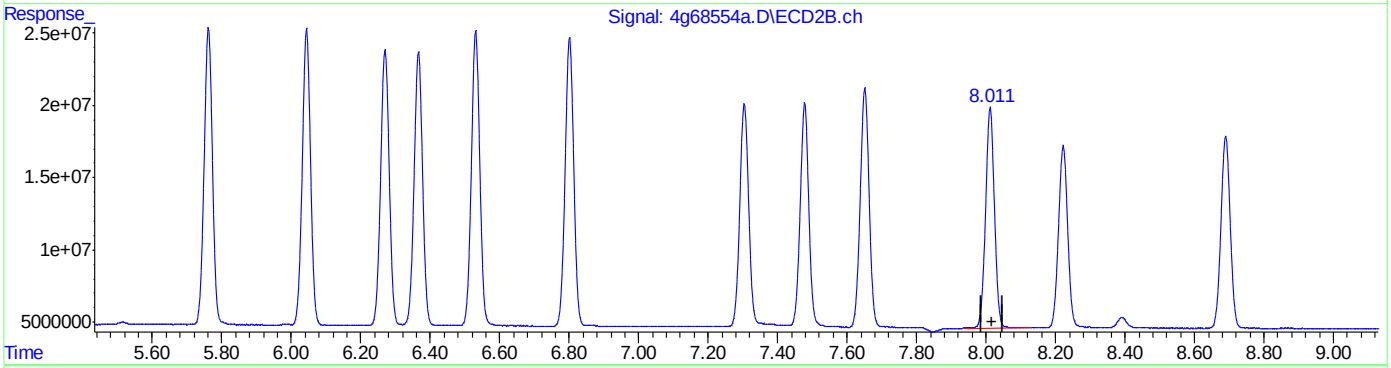
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68554a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:48 pm
Operator : rebeccak
Sample : ic1799-50
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:25:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(18) 4,4'-DDT (MA)
6.503min 52.380 PPB
response 294984241

(18) 4,4'-DDT #2 (MA)
8.011min 56.805 PPB m
response 270606507

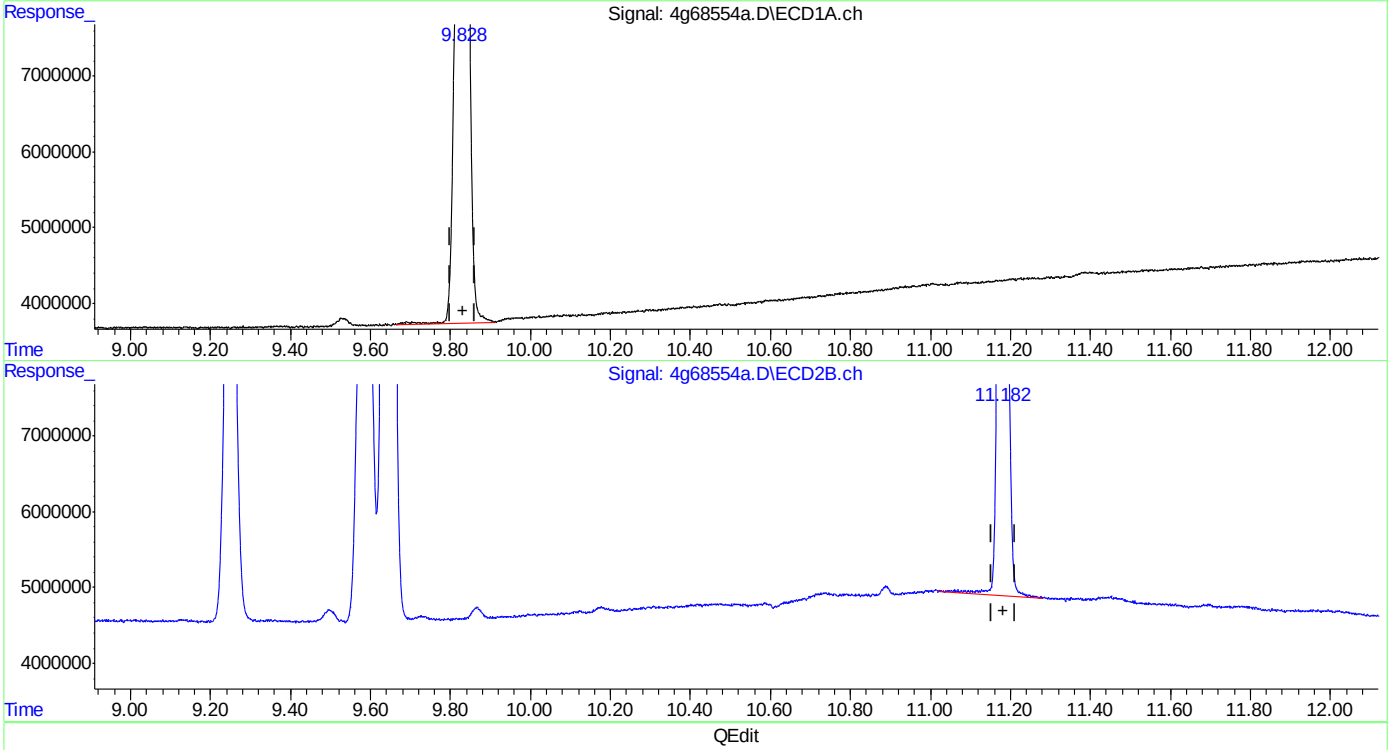
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68554a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:48 pm
Operator : rebeccak
Sample : ic1799-50
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:25:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.829min 39.287 PPB
response 290044500

(24) Decachlorobiphenyl #2 (SA)
11.182min 39.338 PPB
response 217108912

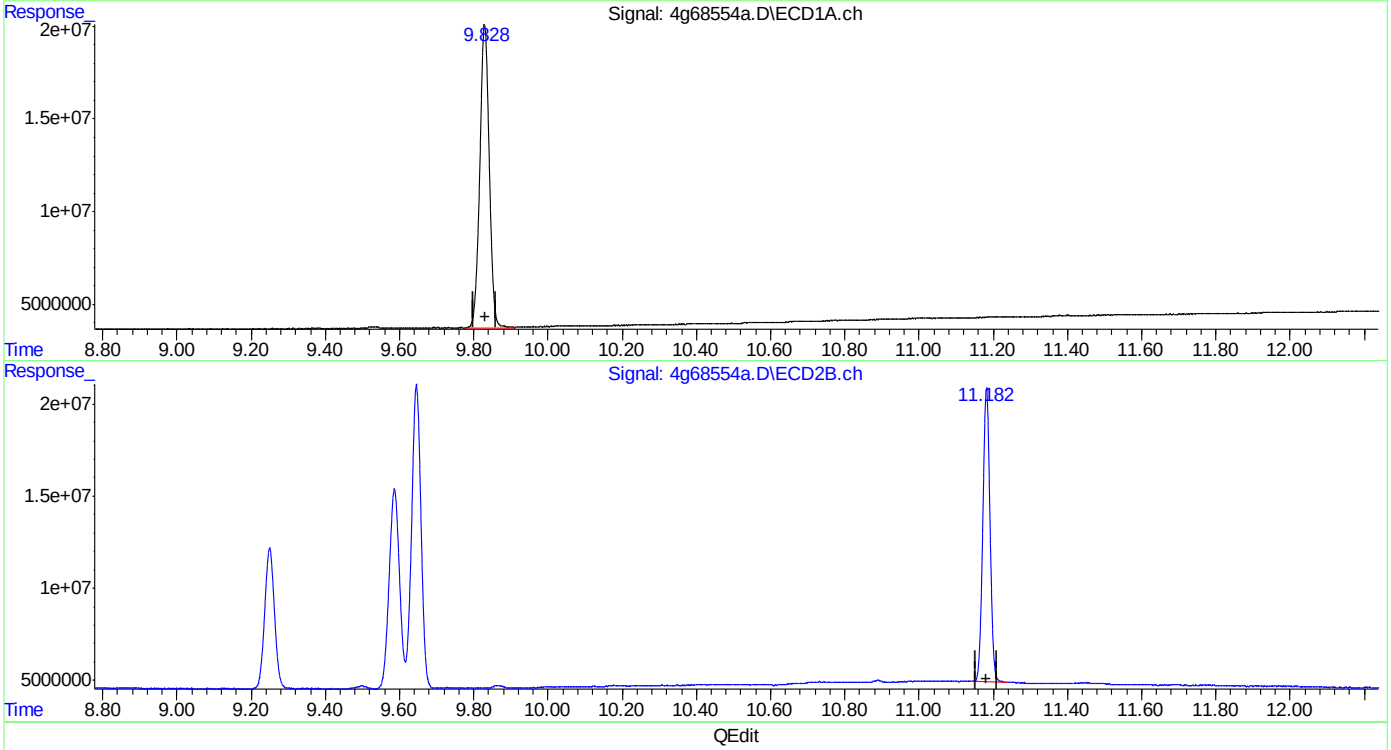
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68554a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 3:48 pm
Operator : rebeccak
Sample : ic1799-50
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:25:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.828min 39.183 PPB m
response 289280235

(24) Decachlorobiphenyl #2 (SA)
11.182min 38.731 PPB m
response 213758570

(+) = Expected Retention Time
4PST1799.M Tue May 24 17:26:22 2016 RPT1

4G68555A.D

Manual Integrations APPROVED (compounds with "m" flag)

Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68555a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:03 pm
Operator : rebeccak
Sample : ic1799-75
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:28:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.888	2.062	412.4E6	348.5E6	50.000	50.000	
25) I	1-bromo-2...	1.888	2.062	412.4E6	348.5E6	50.000	50.000	
31) I	1-bromo-2...	1.888	2.062	412.4E6	348.5E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.449	2.844	543.5E6	479.6E6	65.823	75.916	
Spiked Amount		40.000 Range	30 - 150	Recovery	=	164.56%#	189.79%#	
24) SA	Decachlor...	9.830	11.183	430.6E6	318.8E6	57.009	57.033	
Spiked Amount		40.000		Recovery	=	142.52%	142.58%	
	Target Compounds							
3) A	alpha-BHC	2.923	3.491	782.4E6	723.1E6	79.351	83.472	
4) MA	gamma-BHC	3.221	3.914	705.7E6	646.5E6	79.643	81.087	
5) MA	Heptachlor	3.717	4.490	657.8E6	633.5E6	76.801	74.373	
6) B	beta-BHC	3.295	3.992	305.6E6	273.7E6	68.474	74.336	
7) B	delta-BHC	3.484	4.387	649.6E6	594.7E6	84.369	81.679	
8) MB	Aldrin	4.057	4.941	618.6E6	587.3E6	76.641	72.143	
9) B	Heptachlo...	4.789	5.760	564.2E6	523.9E6	75.511	71.537	
10) B	gamma-Chl...	4.949	6.043	562.7E6	523.5E6	77.844	73.451	
11) B	alpha-Chl...	5.123	6.269	548.8E6	506.5E6	72.115	72.236	
12) A	Endosulfan I	5.312	6.365	538.7E6	492.0E6	67.790	70.890	
13) B	4,4'-DDE	5.229	6.530	563.9E6	526.7E6	81.400	73.598	
14) MA	Dieldrin	5.639	6.800	576.4E6	527.6E6	72.862	74.162	
15) MA	Endrin	5.969	7.304	486.0E6	412.8E6	67.061	64.524	
16) A	4,4'-DDD	6.082	7.477	450.0E6	403.6E6	74.006	69.769	
17) B	Endosulfa...	6.299	7.651	496.0E6	449.9E6	69.536	69.741	
18) MA	4,4'-DDT	6.504	8.012	462.0E6	418.7E6	73.850	86.787	
19) B	Endrin Al...	6.945	8.222	403.9E6	349.1E6	67.777m	72.010	
20) B	Endosulfa...	7.647	8.689	429.3E6	375.6E6	64.440	74.170	
21) A	Methoxychlor	7.291	9.250	243.3E6	211.6E6	75.677	79.058	
22)	Mirex	7.443	9.586	379.4E6	316.2E6	57.252	72.266	#
23) B	Endrin Ke...	8.083	9.645	523.7E6	442.7E6	73.062	81.220	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

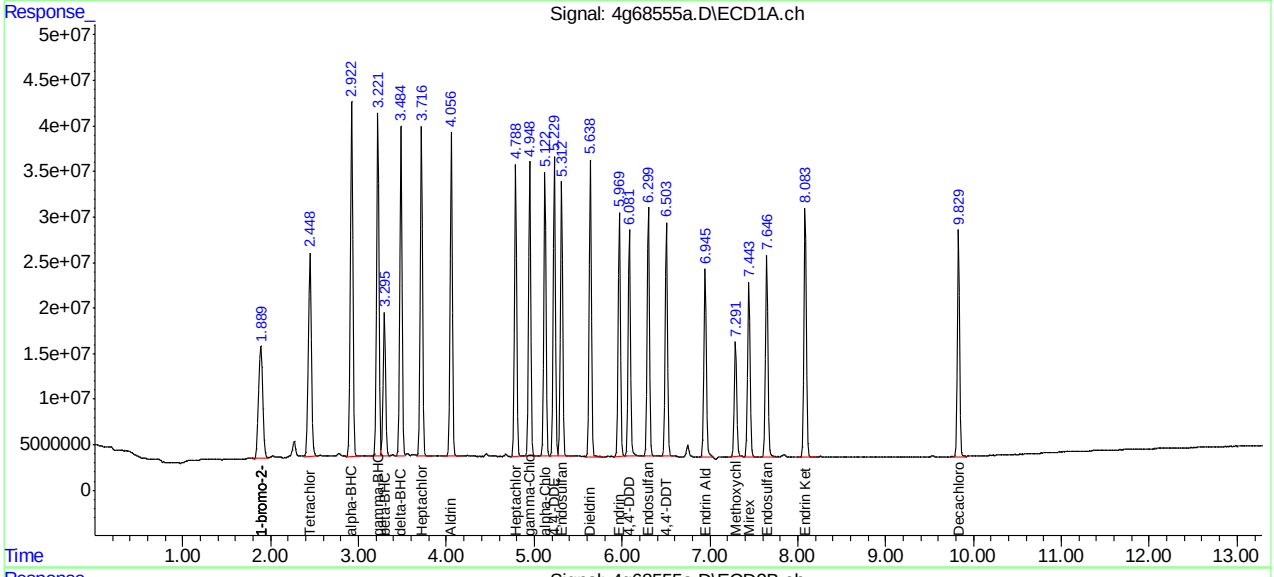
11.6.28 11

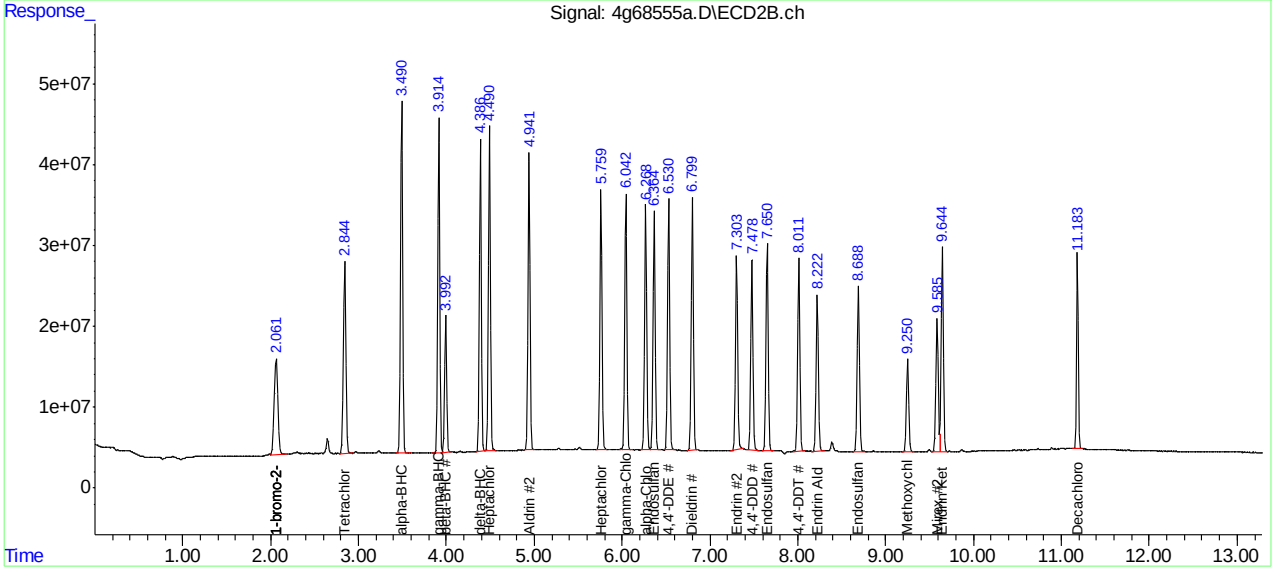
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68555a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:03 pm
Operator : rebeccak
Sample : ic1799-75
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:28:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68555A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 16:03	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

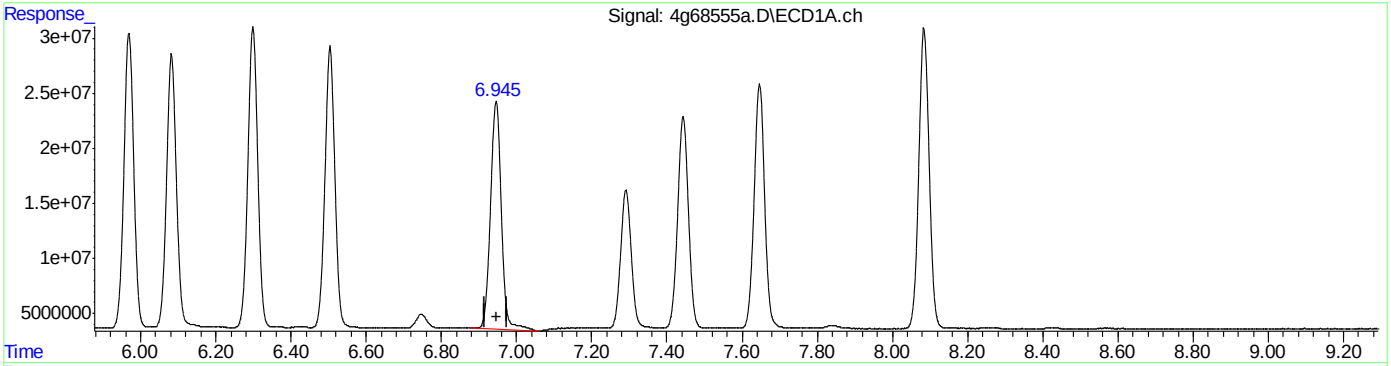
Parameter	CAS	Sig#	R.T. (min.)	Reason
Endrin aldehyde	7421-93-4	1	6.95	Poorly defined baseline

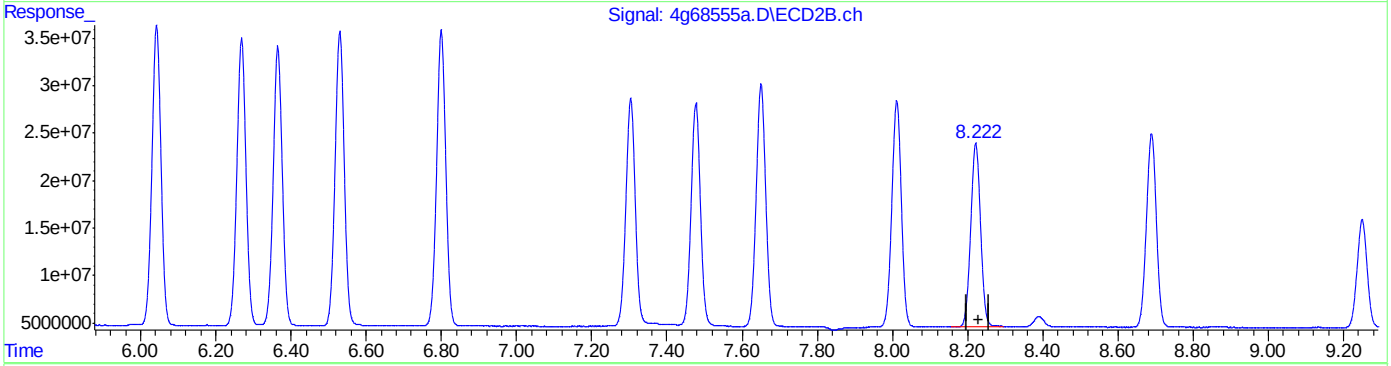
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68555a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:03 pm
Operator : rebeccak
Sample : ic1799-75
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:27:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
6.946min 69.812 PPB
response 416002784

(19) Endrin Aldehyde #2 (B)
8.222min 72.010 PPB
response 349064113

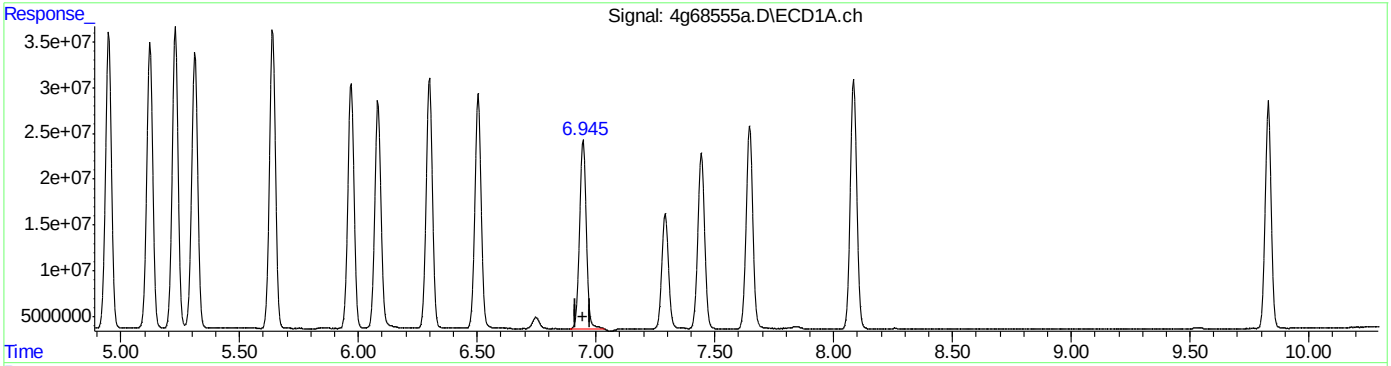
(+) = Expected Retention Time
4PST1799.M Tue May 24 17:28:38 2016 RPT1

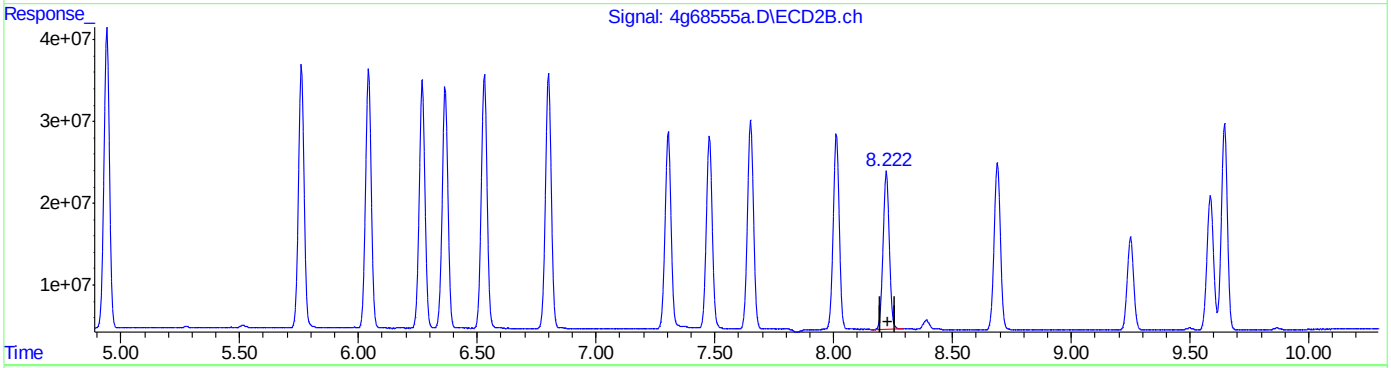
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68555a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:03 pm
Operator : rebeccak
Sample : ic1799-75
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:27:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(19) Endrin Aldehyde (B)
6.945min 67.777 PPB m
response 403878025

(19) Endrin Aldehyde #2 (B)
8.222min 72.010 PPB
response 349064113

(+) = Expected Retention Time
4PST1799.M Tue May 24 17:28:48 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68556a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:18 pm
Operator : rebeccak
Sample : ic1799-100
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:30:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.889	2.064	422.7E6	356.4E6	50.000	50.000	
25) I	1-bromo-2...	1.889	2.064	422.7E6	356.4E6	50.000	50.000	
31) I	1-bromo-2...	1.889	2.064	422.7E6	356.4E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.449	2.846	739.8E6	657.2E6	87.421	101.714	
Spiked Amount		40.000 Range	30 - 150	Recovery	=	218.55%#	254.29%#	
24) SA	Decachlor...	9.829	11.182	574.1E6	427.2E6	74.161	74.739	
Spiked Amount		40.000		Recovery	=	185.40%	186.85%	
	Target Compounds							
3) A	alpha-BHC	2.924	3.494	1083.0E6	1001.8E6	107.168	113.071	
4) MA	gamma-BHC	3.221	3.916	972.0E6	892.1E6	107.037	109.408	
5) MA	Heptachlor	3.717	4.492	896.4E6	871.2E6	102.125	100.007	
6) B	beta-BHC	3.296	3.995	415.6E6	373.4E6	90.848	99.165	
7) B	delta-BHC	3.484	4.389	905.1E6	831.2E6	114.695	111.617	
8) MB	Aldrin	4.057	4.943	847.7E6	810.9E6	102.472	97.400	
9) B	Heptachlo...	4.789	5.762	766.1E6	718.7E6	100.042	95.966	
10) B	gamma-Chl...	4.949	6.045	770.4E6	722.2E6	103.991	99.088	
11) B	alpha-Chl...	5.123	6.270	748.4E6	693.9E6	95.967	96.762	
12) A	Endosulfan I	5.312	6.367	733.1E6	672.9E6	90.005	94.803	
13) B	4,4'-DDE	5.229	6.532	771.1E6	722.9E6	108.600	98.773	
14) MA	Dieldrin	5.639	6.802	788.6E6	726.3E6	97.257	99.838	
15) MA	Endrin	5.969	7.305	671.5E6	574.6E6	90.400	87.816	
16) A	4,4'-DDD	6.082	7.478	626.3E6	561.4E6	100.497	94.904	
17) B	Endosulfa...	6.299	7.652	681.2E6	616.1E6	93.182	93.381	
18) MA	4,4'-DDT	6.503	8.012	641.8E6	576.6E6	93.482m	116.862	#
19) B	Endrin Al...	6.945	8.223	547.8E6	475.8E6	89.692m	95.976	
20) B	Endosulfa...	7.647	8.690	581.2E6	511.3E6	85.129	98.728	
21) A	Methoxychlor	7.291	9.251	325.9E6	285.3E6	98.935	104.228	
22)	Mirex	7.444	9.587	507.1E6	424.8E6	74.667	94.957	#
23) B	Endrin Ke...	8.085	9.646	709.8E6	602.9E6	96.620	108.154	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

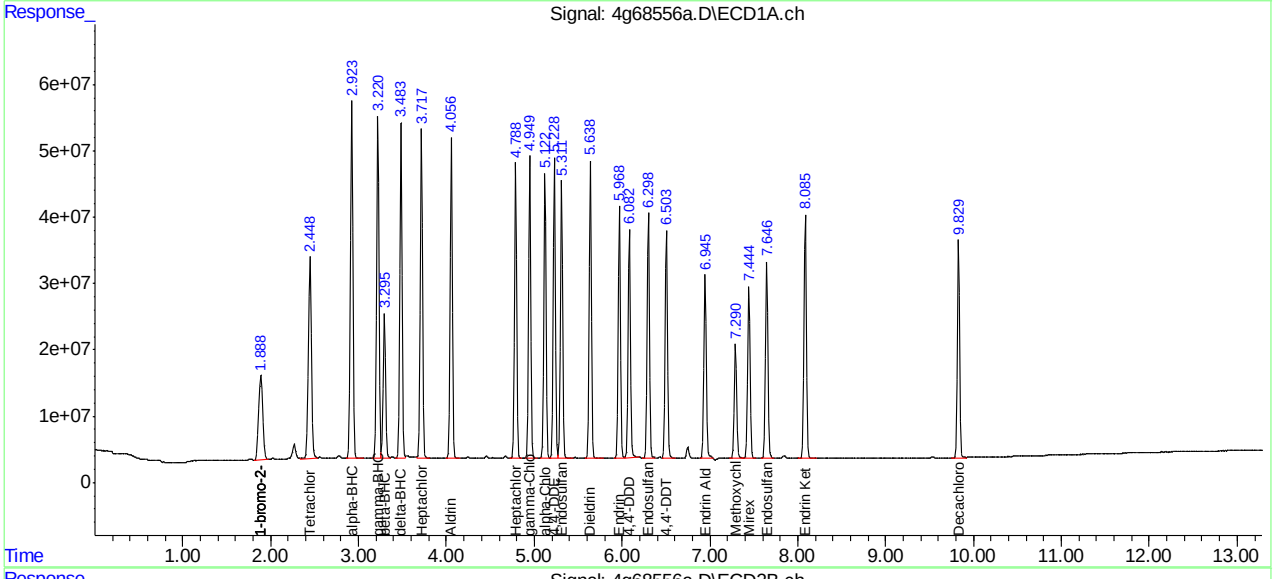
11.6.29 11

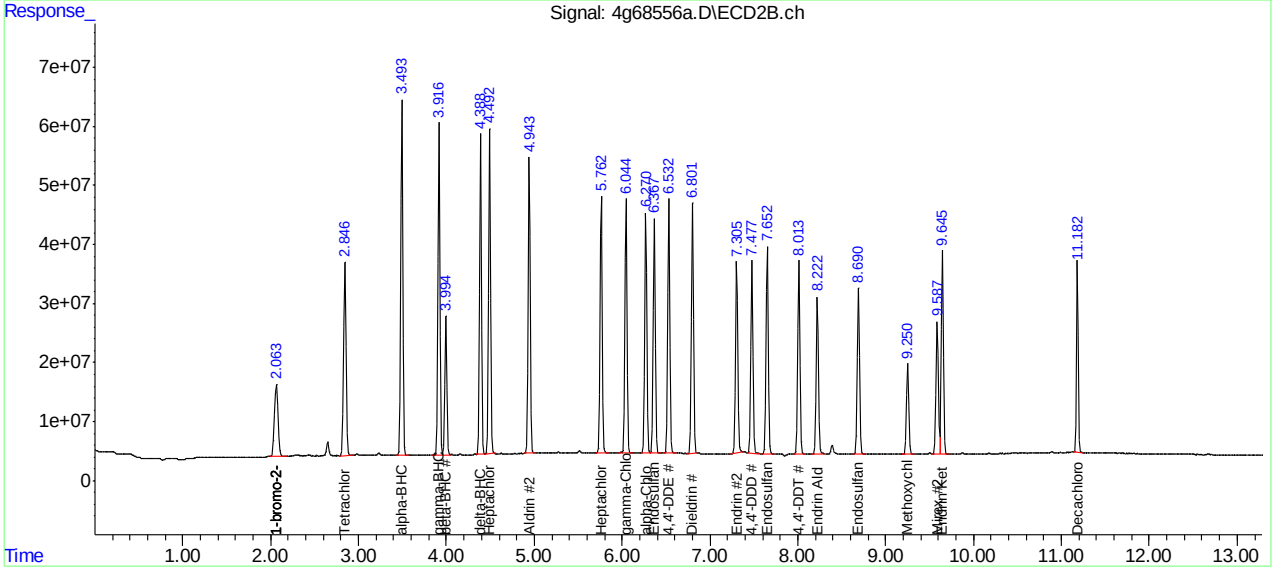
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68556a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:18 pm
Operator : rebeccak
Sample : ic1799-100
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:30:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68556A.D	**Analyst approved:**	05/25/16 09:41 Rebecca Krug
Injection Time:	05/24/16 16:18	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

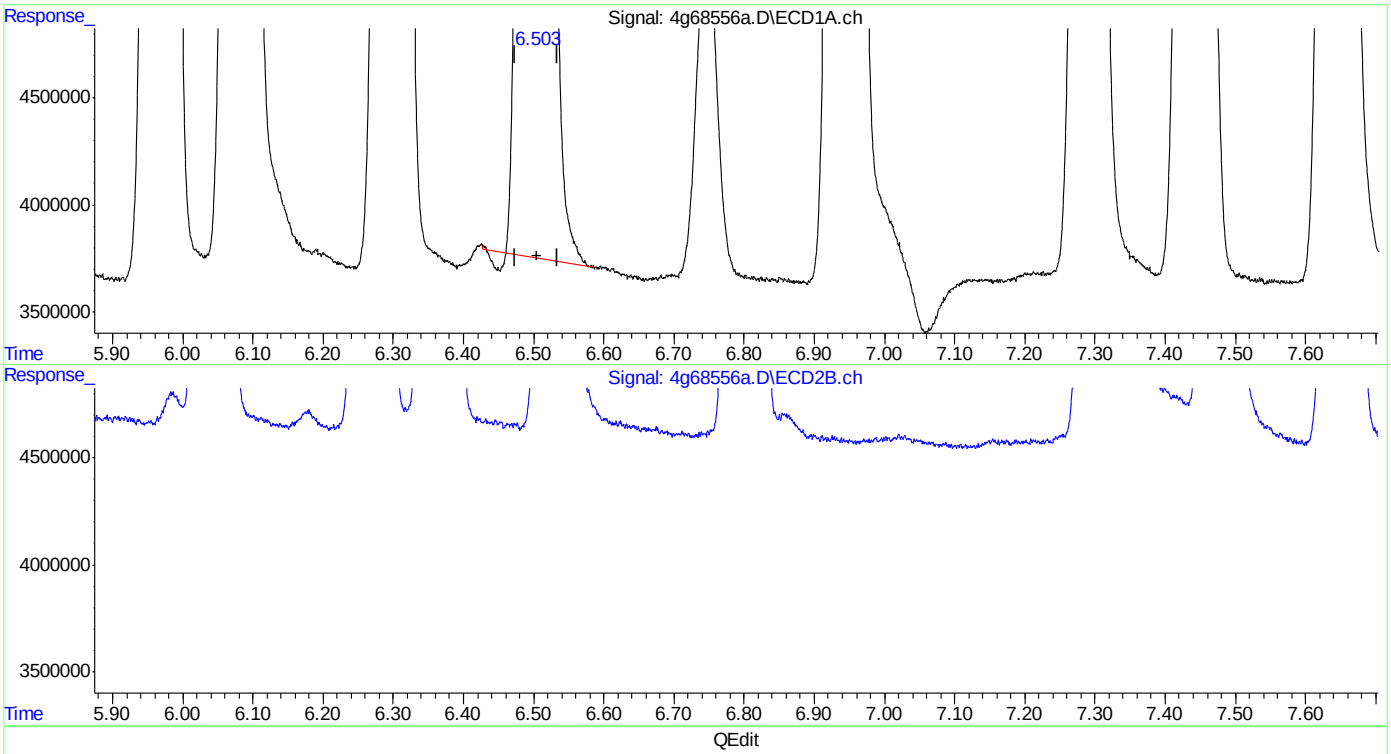
Parameter	CAS	Sig#	R.T. (min.)	Reason
4,4'-DDT	50-29-3	1	6.50	Poorly defined baseline
Endrin aldehyde	7421-93-4	1	6.94	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68556a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:18 pm
Operator : rebeccak
Sample : ic1799-100
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:29:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(18) 4,4'-DDT (MA)
6.504min 92.988 PPB
response 637336317

(18) 4,4'-DDT #2 (MA)
8.012min 116.862 PPB
response 576560823

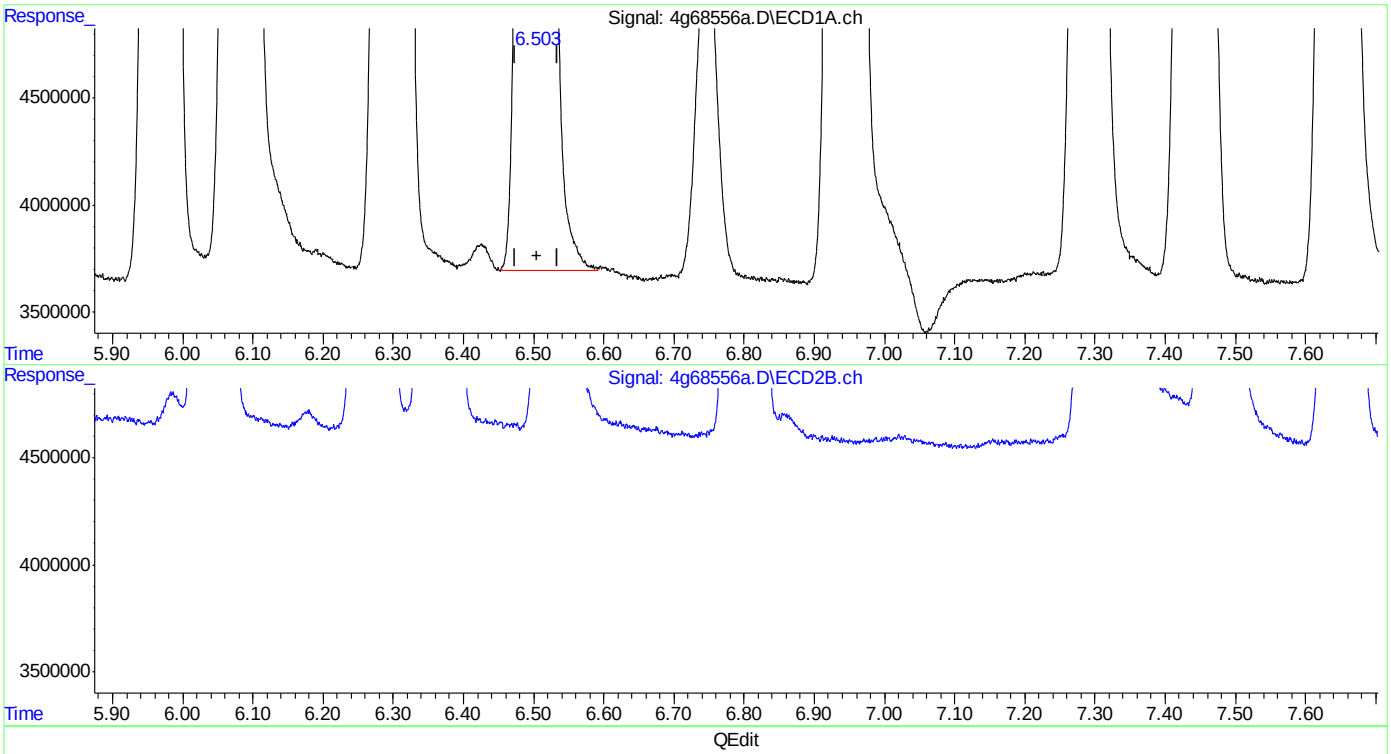
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68556a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:18 pm
Operator : rebeccak
Sample : ic1799-100
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:29:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(18) 4,4'-DDT (MA)
6.503min 93.482 PPB m
response 641780473

(18) 4,4'-DDT #2 (MA)
8.012min 116.862 PPB
response 576560823

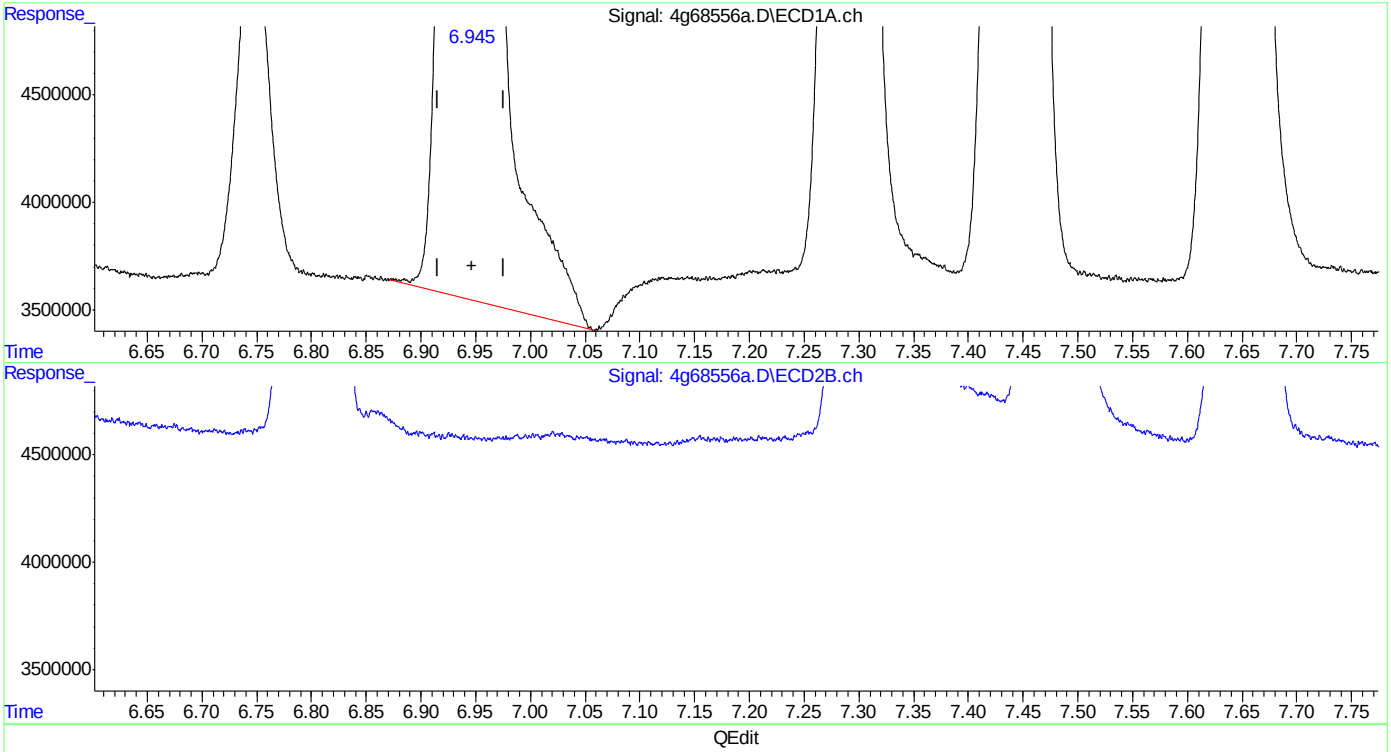
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68556a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:18 pm
Operator : rebeccak
Sample : ic1799-100
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:29:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.945min 91.510 PPB
response 558864525

(19) Endrin Aldehyde #2 (B)
8.223min 95.976 PPB
response 475787972

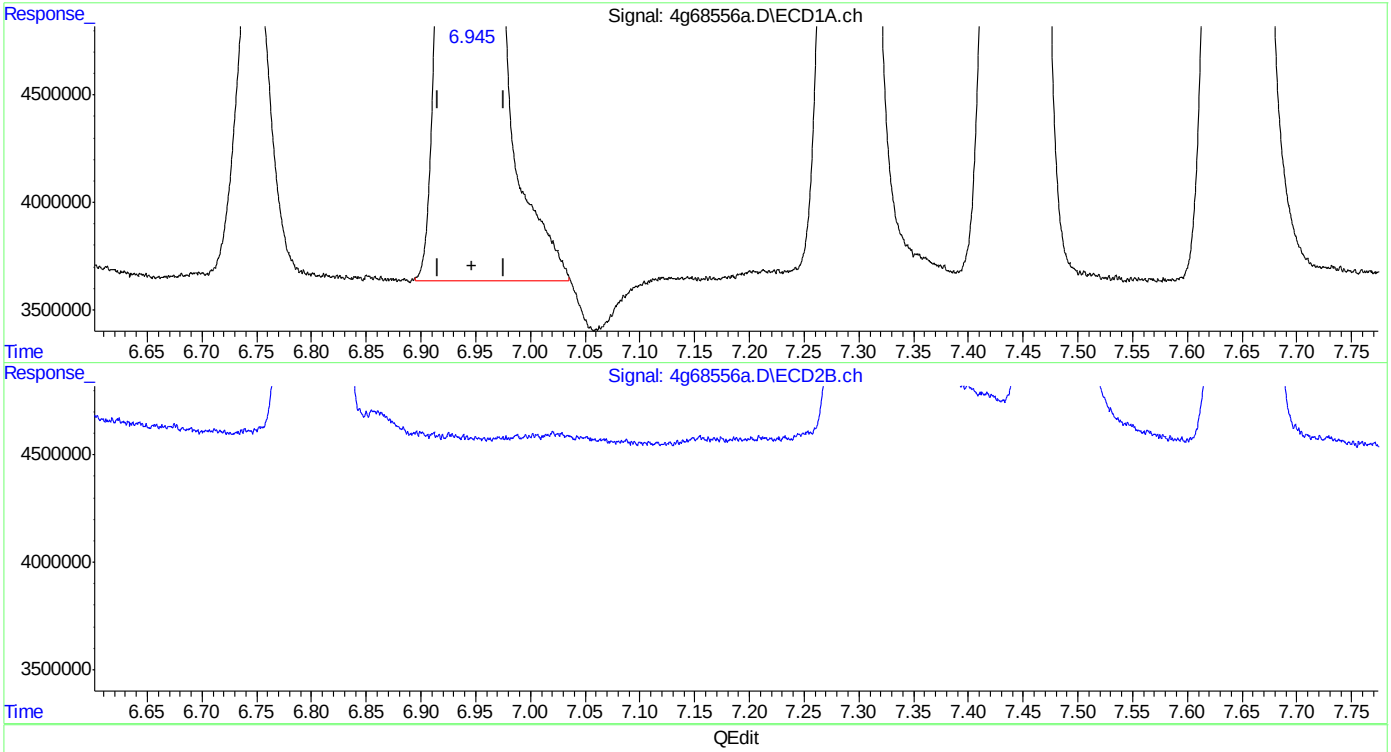
(+) = Expected Retention Time
4PST1799.M Tue May 24 17:30:32 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68556a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 4:18 pm
Operator : rebeccak
Sample : ic1799-100
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 17:29:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Tue May 24 17:25:00 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(19) Endrin Aldehyde (B)
6.945min 89.692 PPB m
response 547761019

(19) Endrin Aldehyde #2 (B)
8.223min 95.976 PPB
response 475787972

(+) = Expected Retention Time
4PST1799.M Tue May 24 17:30:37 2016 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68557a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:17 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:53:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:52:46 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.889	2.056	372.2E6	308.0E6	50.000	50.000
25) I	1-bromo-2...	1.889	2.056	372.2E6	308.0E6	50.000	50.000
31) I	1-bromo-2...	1.889	2.056	372.2E6	308.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.451	2.833	391.7E6	294.2E6	60.812	52.512
Spiked Amount		40.000	Range	30 - 150	Recovery	= 152.03%#	131.28%
24) SA	Decachlor...	9.837	11.194	297.1E6	227.0E6	53.607	54.443
Spiked Amount		40.000			Recovery	= 134.02%	136.11%
	Target Compounds						
32)	Chlordane...	3.634	4.280	113.4E6	103.9E6	248.540	500.000 #
33)	Chlordane...	4.212	5.117	137.3E6	112.4E6	500.000	500.000
34)	Chlordane...	4.957	6.030	473.9E6	426.0E6	500.000	500.000
35)	Chlordane...	5.122	6.256	737.1E6	692.2E6	500.000	500.392m
36)	Chlordane...	6.201	7.721	112.6E6	100.6E6	499.807	488.285m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

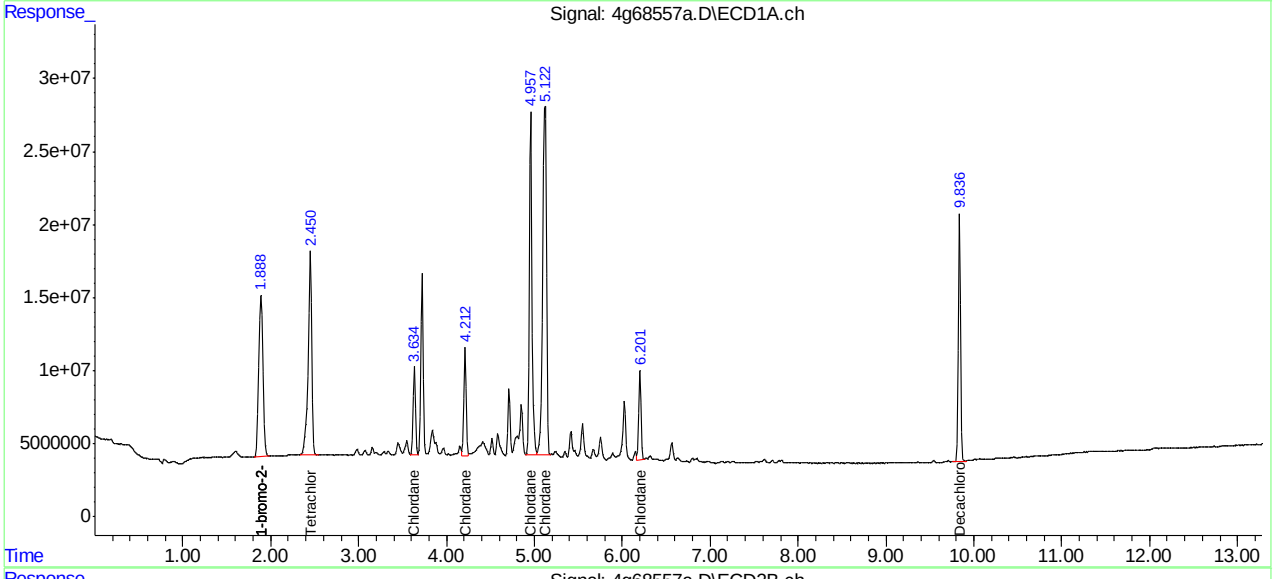
11.6.30 11

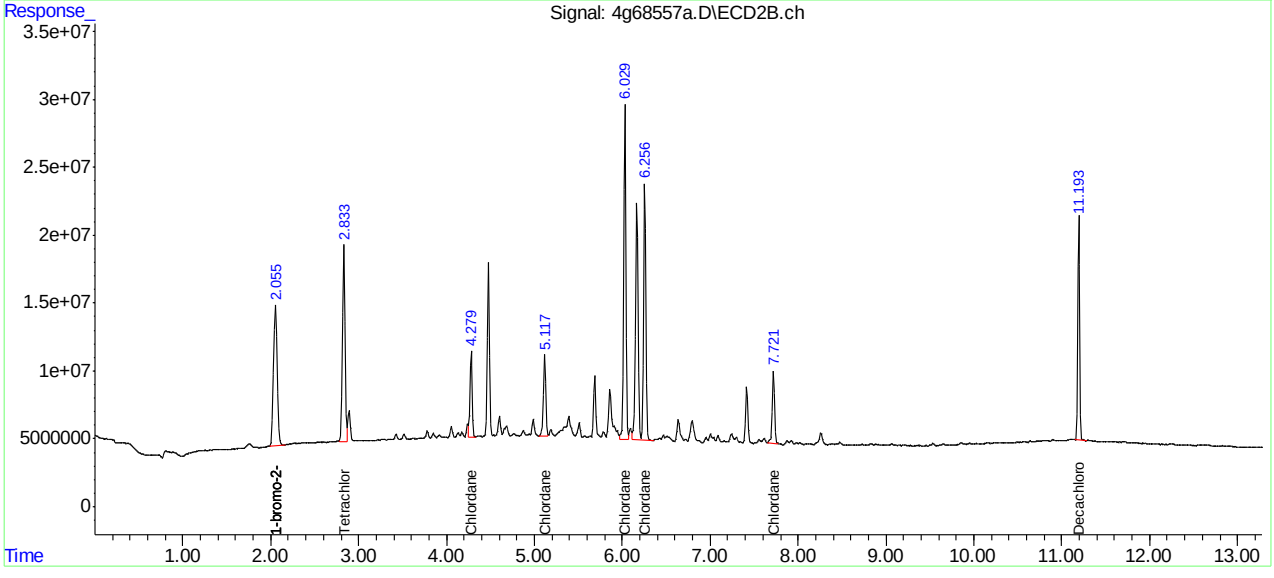
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68557a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:17 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:53:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:52:46 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1799-IC1799	**Method:**	SW846 8081B
Lab FileID:	4G68557A.D	**Analyst approved:**	05/25/16 10:03 Rebecca Krug
Injection Time:	05/24/16 17:17	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

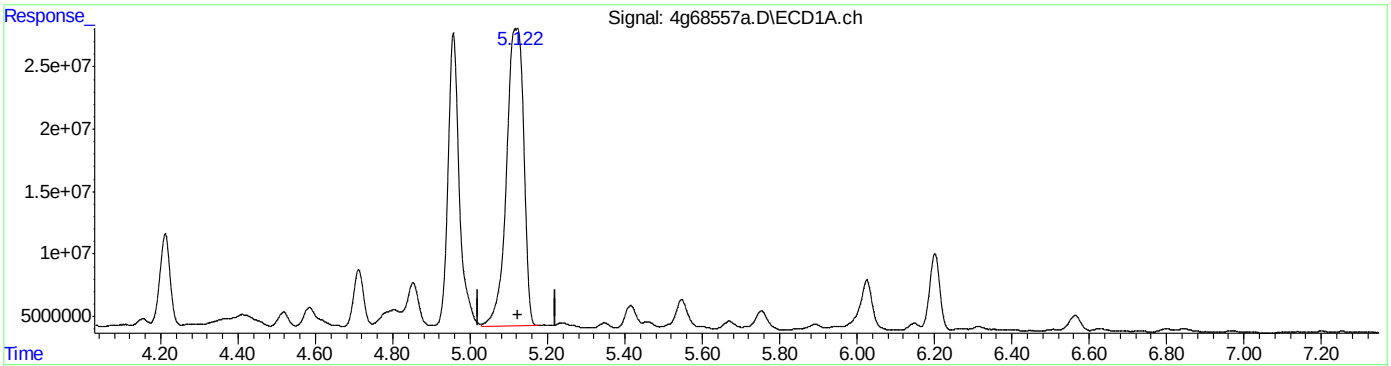
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.26	Split peak
Chlordane-E		2	7.72	Poorly defined baseline

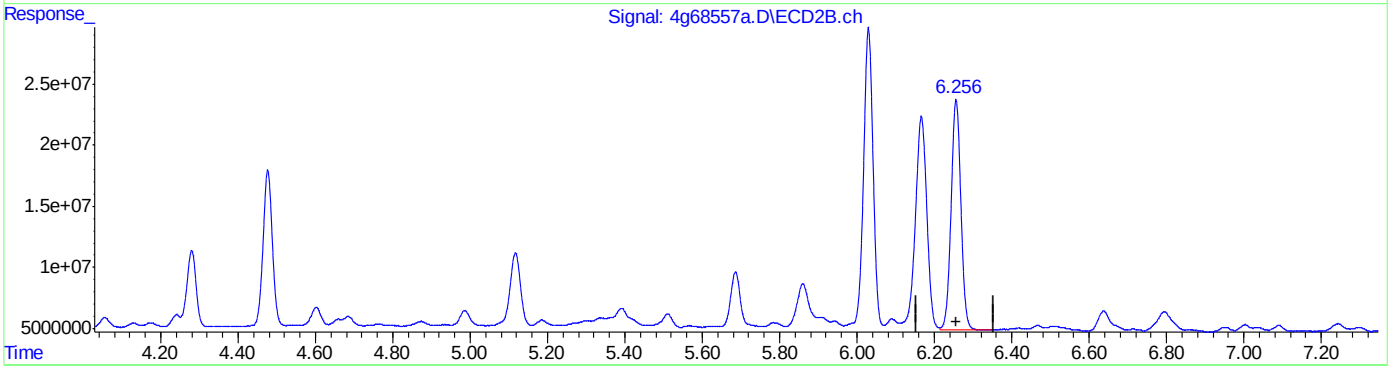
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68557a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:17 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:52:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:52:46 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.122min 500.000 PPB
response 737098661

(35) Chlordane {D} #2
6.256min 238.997 PPB
response 330594271

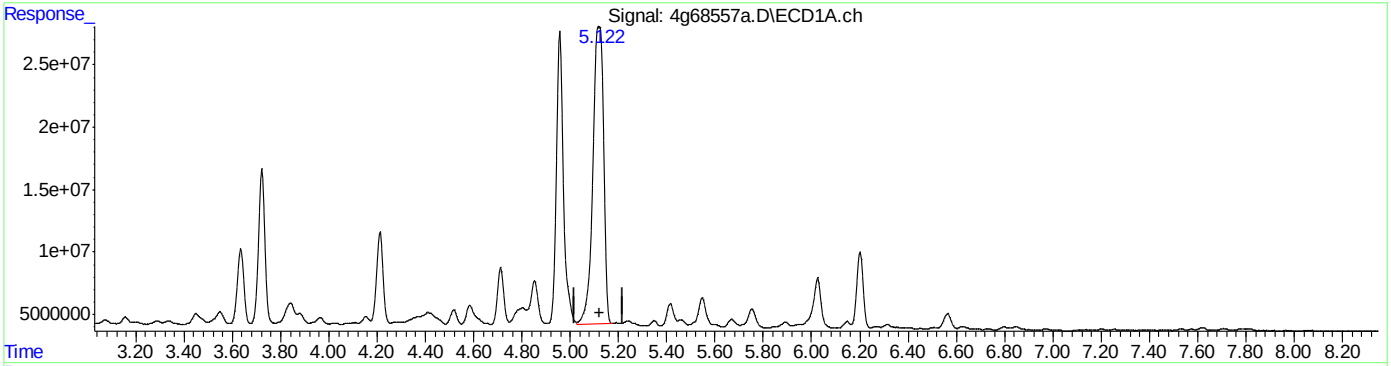
(+) = Expected Retention Time

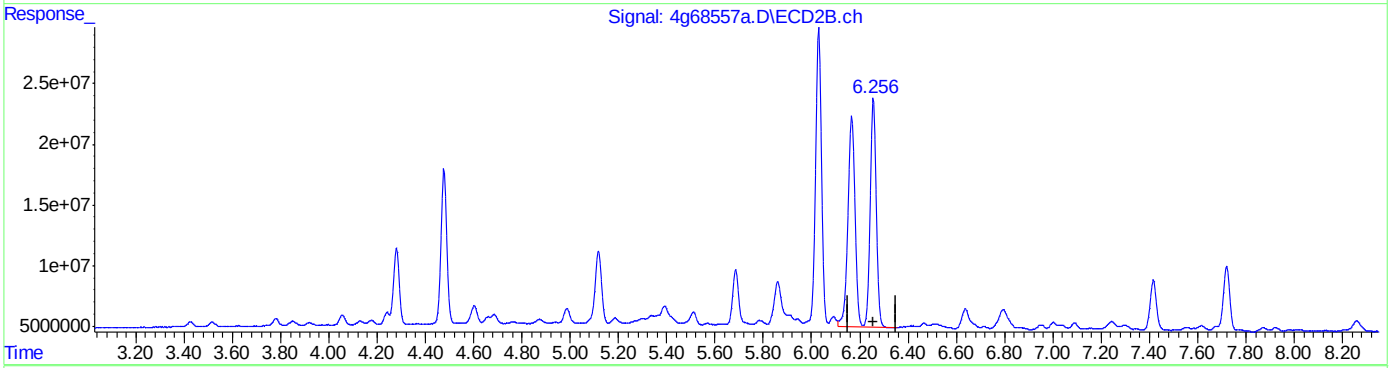
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68557a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:17 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:52:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:52:46 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.122min 500.000 PPB
response 737098661

(35) Chlordane {D} #2
6.256min 500.392 PPB m
response 692171198

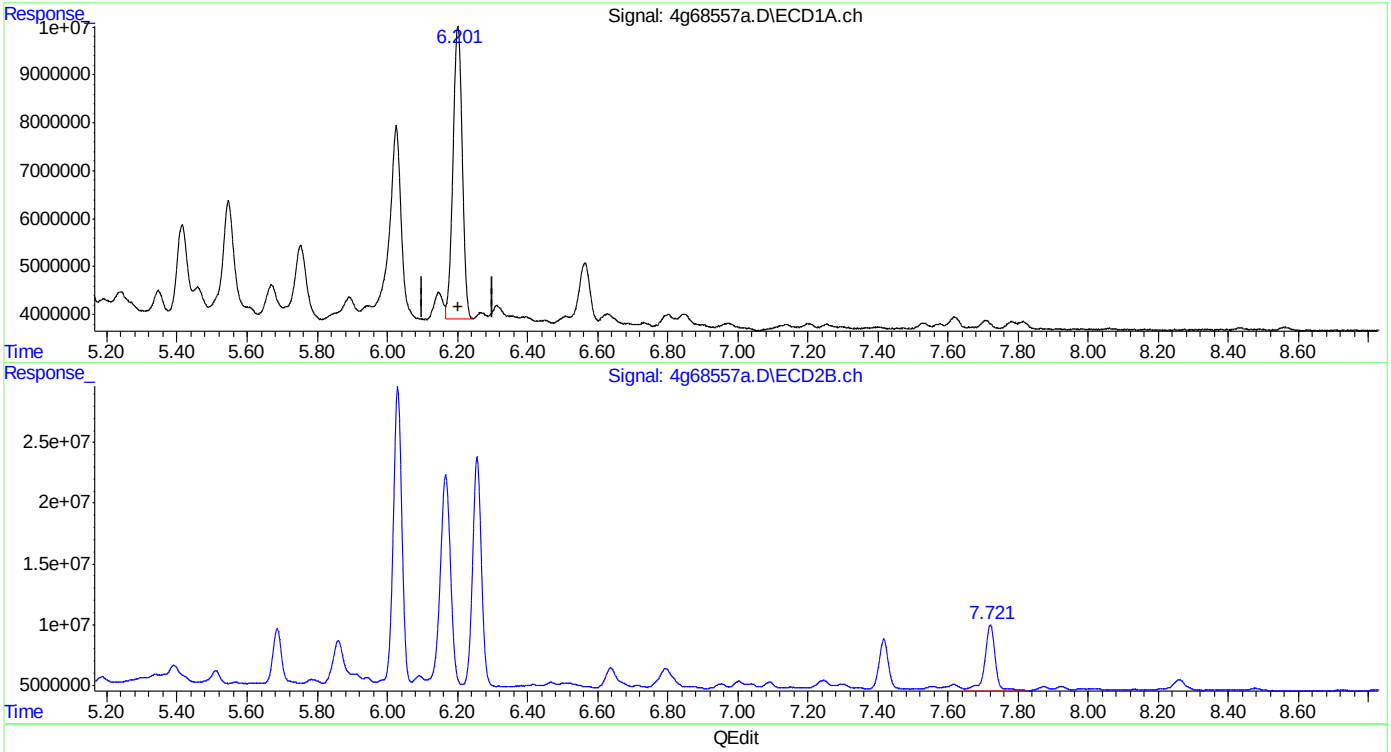
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68557a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:17 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:52:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:52:46 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(36) Chlordane {E}
6.201min 499.807 PPB
response 112625841

(36) Chlordane {E} #2
7.721min 549.508 PPB
response 113197508

(+) = Expected Retention Time
4PST1799.M Wed May 25 09:53:25 2016 RPT1

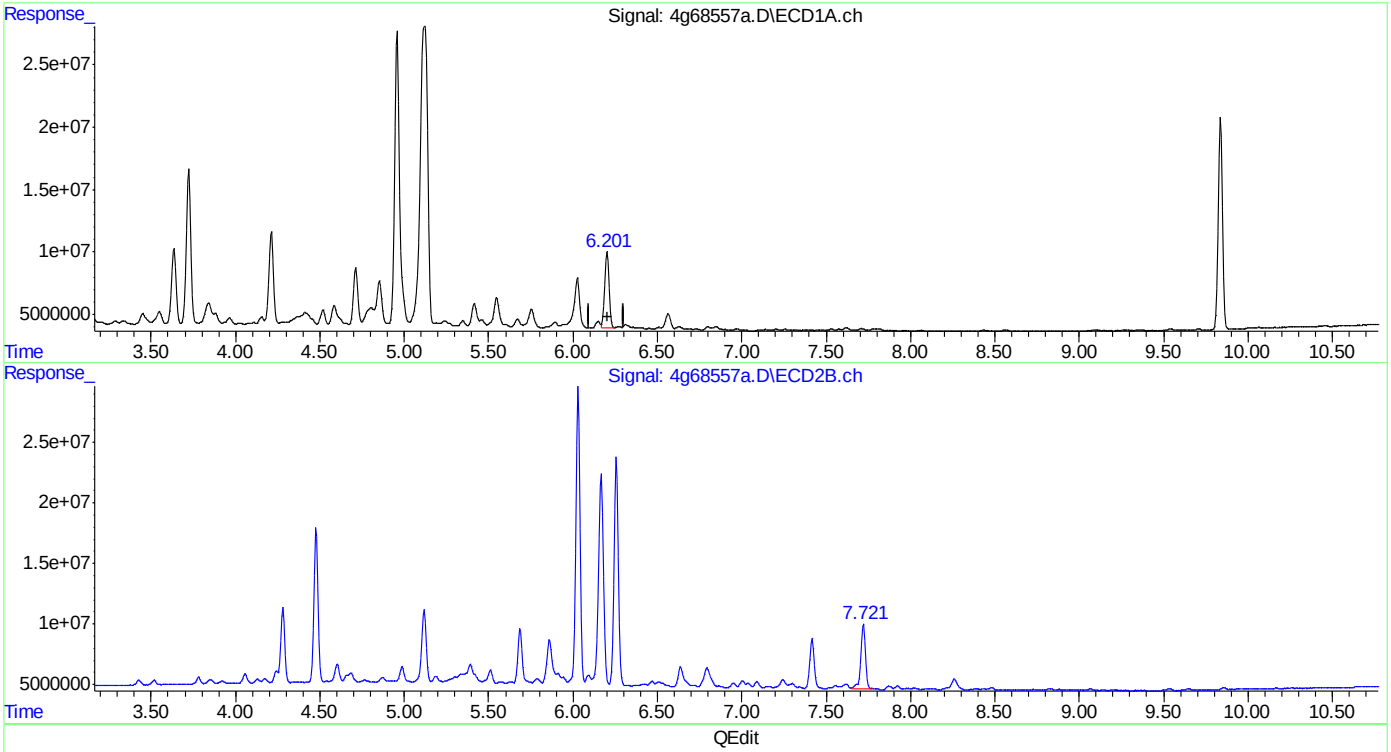
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68557a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:17 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:52:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:52:46 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(36) Chlordane {E}
6.201min 499.807 PPB
response 112625841

(36) Chlordane {E} #2
7.721min 488.285 PPB m
response 100585878

(+) = Expected Retention Time
4PST1799.M Wed May 25 09:53:34 2016 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68558a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:32 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:40:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:40:29 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.888	2.064	440.6E6	365.0E6	50.000	50.000	
25) I	1-bromo-2...	1.888	2.064	440.6E6	365.0E6	50.000	50.000	
31) I	1-bromo-2...	1.888	2.064	440.6E6	365.0E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.448	2.844	372.4E6	333.8E6	42.210	50.441	
	Spiked Amount	40.000	Range	30 - 150	Recovery	= 105.53%	126.10%	
24) SA	Decachlor...	9.831	11.186	297.9E6	220.2E6	36.911	37.612	
	Spiked Amount	40.000			Recovery	= 92.28%	94.03%	
	Target Compounds							
26) L8	Toxaphene{A}	5.646	6.763	58320366	48114603	391.074	324.561	
27) L8	Toxaphene{B}	6.283	7.621	157.7E6	83267932	480.411	455.619	
28) L8	Toxaphene{C}	6.466	7.782	118.7E6	154.3E6	265.616	557.163	#
29) L8	Toxaphene{D}	6.804	8.220	97254255	89722812	389.480	511.072	#
30) L8	Toxaphene{E}	7.467	9.121	104.7E6	77085576	507.957	564.208	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

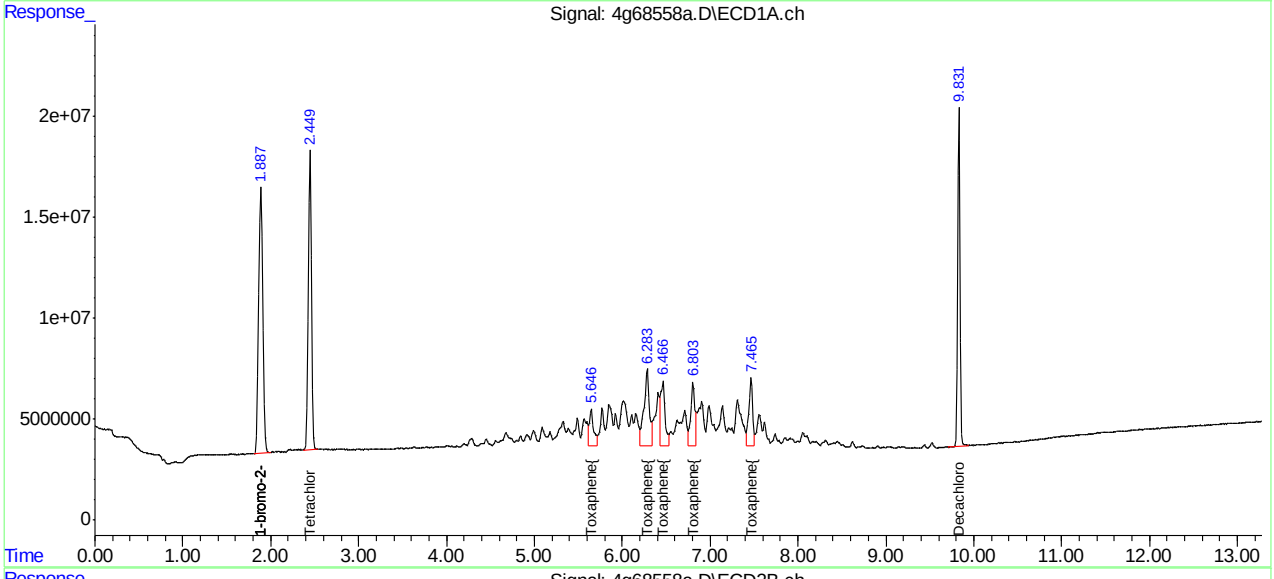
11.6.31 11

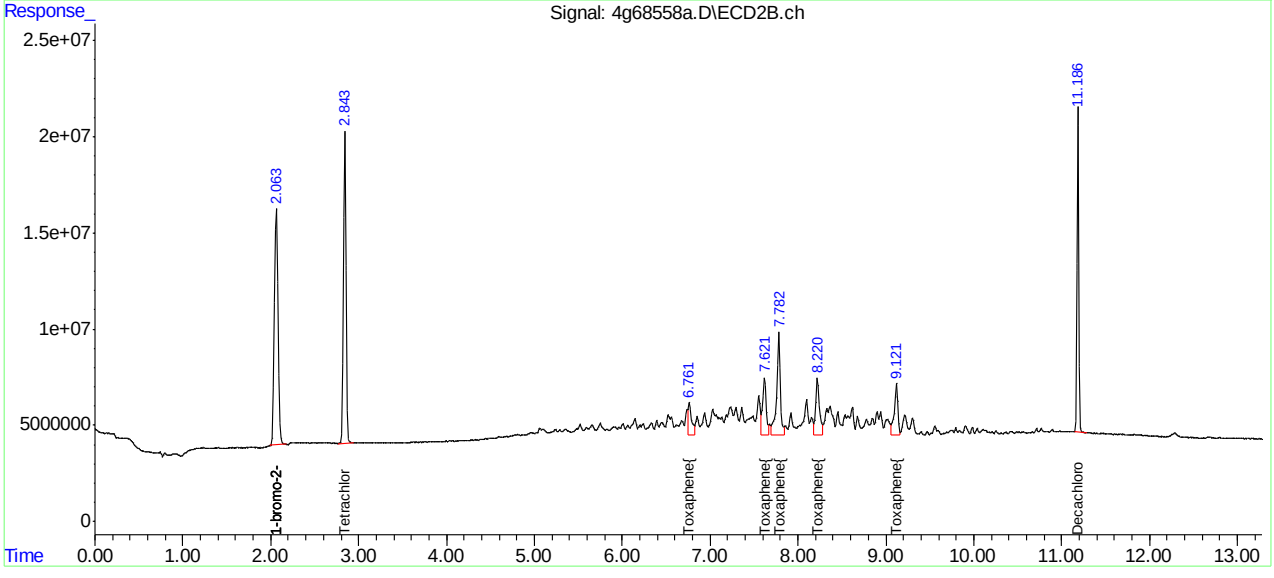
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68558a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:32 pm
Operator : dharas
Sample : ic1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:40:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:40:29 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68559a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:47 pm
Operator : dharas
Sample : icv1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:51:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:48:07 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.888	2.064	439.0E6	366.9E6	50.000	50.000
25) I	1-bromo-2...	1.888	2.064	439.0E6	366.9E6	50.000	50.000
31) I	1-bromo-2...	1.888	2.064	439.0E6	366.9E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.448	2.845	169.6E6	148.9E6	22.320	22.318
Spiked Amount		40.000 Range	30 - 150	Recovery	=	55.80%	55.80%
24) SA	Decachlor...	9.830	11.182	145.4E6	111.9E6	22.250	22.533
Spiked Amount		40.000		Recovery	=	55.63%	56.33%
	Target Compounds						
3) A	alpha-BHC	2.923	3.492	219.0E6	201.1E6	21.118	21.667
4) MA	gamma-BHC	3.221	3.915	202.0E6	182.3E6	21.361	21.458
5) MA	Heptachlor	3.716	4.491	190.6E6	182.9E6	20.816	21.200
6) B	beta-BHC	3.295	3.994	93968438	82465963	21.252	21.260
7) B	delta-BHC	3.483	4.388	198.2E6	177.4E6	23.227	23.238
8) MB	Aldrin	4.056	4.942	177.3E6	168.0E6	20.638	21.216
9) B	Heptachlo...	4.789	5.761	169.0E6	154.2E6	21.242	21.437
10) B	gamma-Chl...	4.948	6.043	170.8E6	155.4E6	21.414	21.979
11) B	alpha-Chl...	5.123	6.269	164.8E6	150.7E6	21.790	21.558
12) A	Endosulfan I	5.311	6.366	157.4E6	141.9E6	20.759	21.370
13) B	4,4'-DDE	5.229	6.531	165.5E6	155.4E6	21.177	21.724
14) MA	Dieldrin	5.639	6.800	170.3E6	154.1E6	21.924	22.071
15) MA	Endrin	5.969	7.303	149.0E6	131.6E6	21.617	22.903
16) A	4,4'-DDD	6.082	7.477	136.0E6	123.4E6	21.887	22.446
17) B	Endosulfa...	6.298	7.650	149.0E6	134.7E6	21.198	21.069
18) MA	4,4'-DDT	6.504	8.012	132.6E6	117.0E6	20.679	20.854
19) B	Endrin Al...	6.944	8.221	130.8E6	109.8E6	23.224	22.817
20) B	Endosulfa...	7.646	8.690	132.5E6	114.8E6	21.200	21.656
21) A	Methoxychlor	7.292	9.251	76662445	63751414	21.087	20.341
23) B	Endrin Ke...	8.084	9.646	157.6E6	130.0E6	21.153	21.405

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

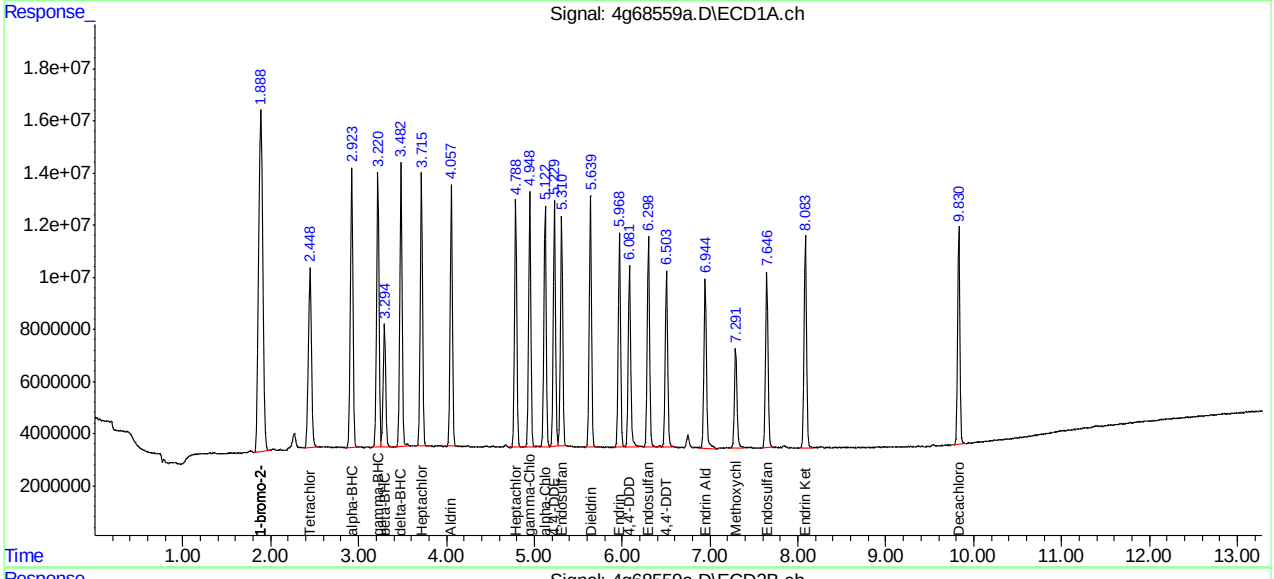
SGS ACCUTEST JC21229

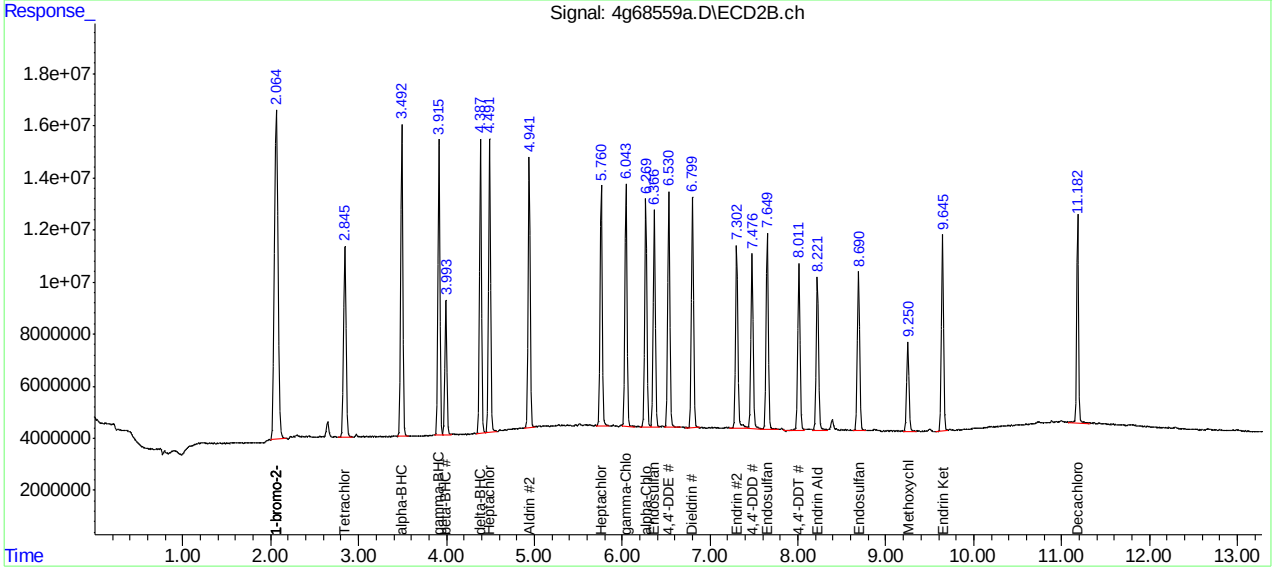
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68559a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 5:47 pm
Operator : dharas
Sample : icv1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:51:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:48:07 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68560a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:02 pm
Operator : dharas
Sample : icv1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:51:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:48:07 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.890	2.065	418.0E6	368.4E6	50.000	50.000
25) I	1-bromo-2...	1.890	2.065	418.0E6	368.4E6	50.000	50.000
31) I	1-bromo-2...	1.890	2.065	418.0E6	368.4E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	7.444	9.586	132.2E6	108.6E6	24.196	23.846
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

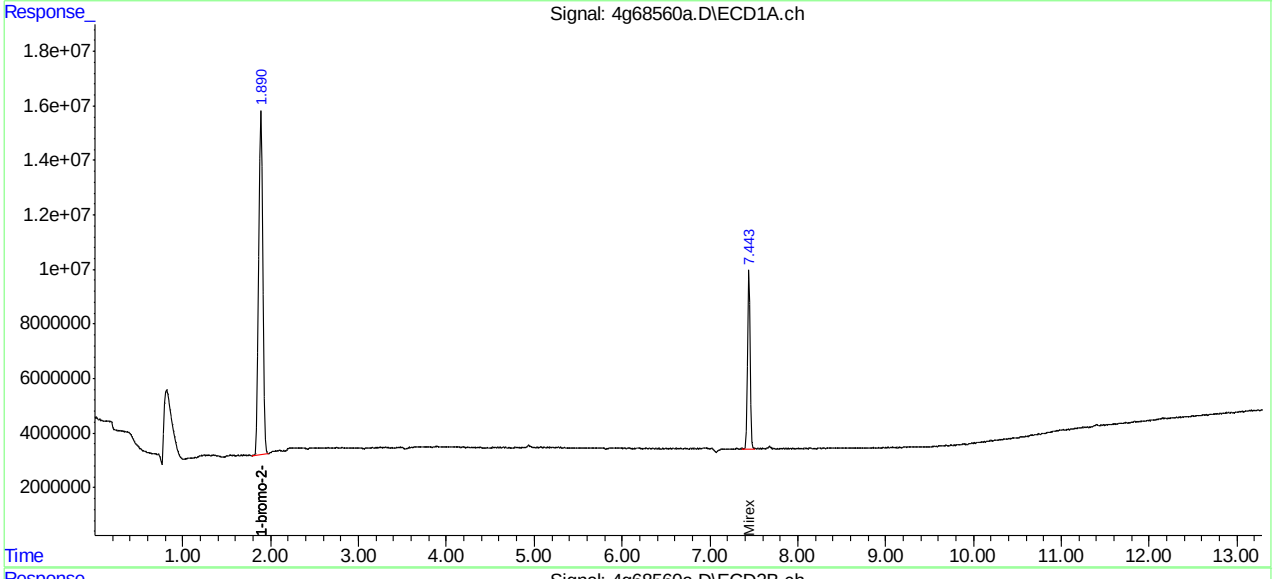
SGS ACCUTEST JC21229

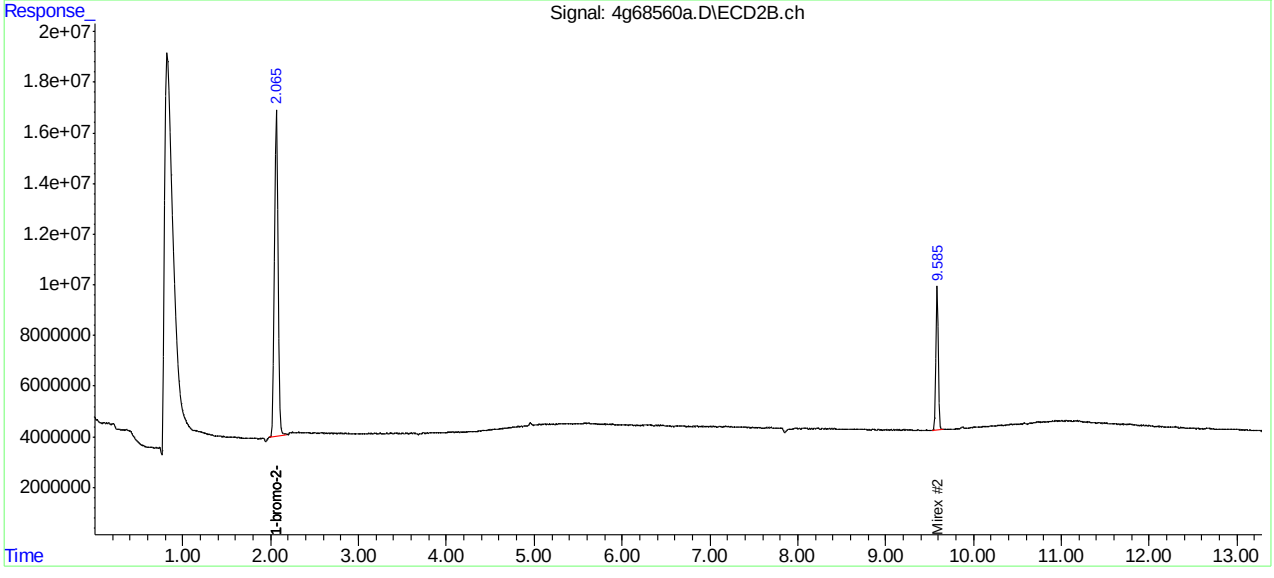
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68560a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:02 pm
Operator : dharas
Sample : icv1799-25
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:51:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:48:07 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
05/26/16 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68561a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:17 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:55:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.888	2.064	424.8E6	365.3E6	50.000	50.000
25) I	1-bromo-2...	1.888	2.064	424.8E6	365.3E6	50.000	50.000
31) I	1-bromo-2...	1.888	2.064	424.8E6	365.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.448	2.845	370.9E6	298.3E6	50.444	44.898
Spiked Amount		40.000	Range	30 - 150	Recovery	= 126.11%	112.25%
24) SA	Decachlor...	9.831	11.180	284.3E6	212.7E6	44.945	43.012
Spiked Amount		40.000			Recovery	= 112.36%	107.53%
	Target Compounds						
32)	Chlordane...	3.629	4.294	137.2E6	133.5E6	530.109	541.778
33)	Chlordane...	4.204	5.132	139.3E6	122.1E6	444.448	457.806
34)	Chlordane...	4.949	6.043	465.9E6	422.5E6	430.651	418.087
35)	Chlordane...	5.114	6.268	735.9E6	692.3E6	437.361	421.669m
36)	Chlordane...	6.193	7.731	112.6E6	105.2E6	438.016	441.014m

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

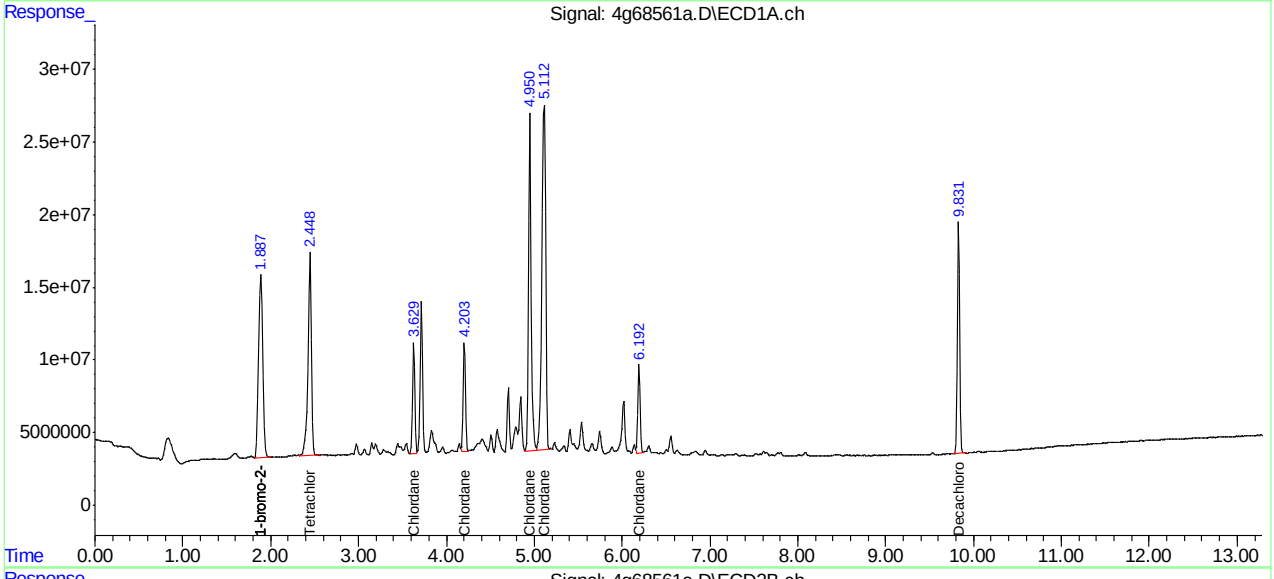
11.6.34 11

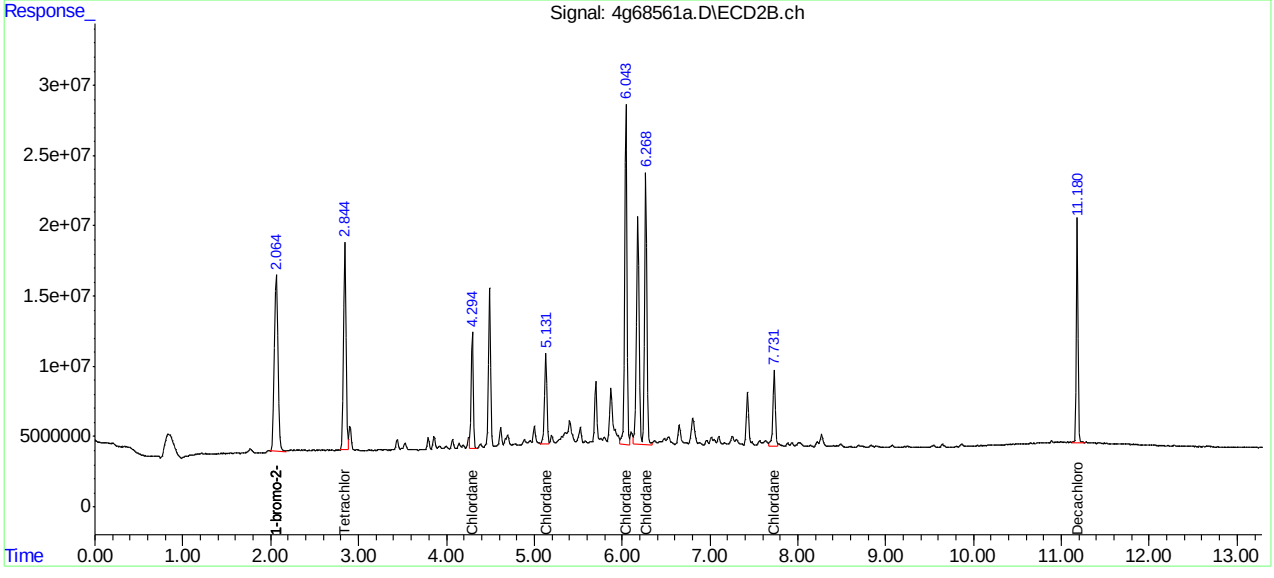
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68561a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:17 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:55:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1799-ICV1799	**Method:**	SW846 8081B
Lab FileID:	4G68561A.D	**Analyst approved:**	05/25/16 10:03 Rebecca Krug
Injection Time:	05/24/16 18:17	**Supervisor approved:**	05/26/16 15:11 Gwendolyn Burns

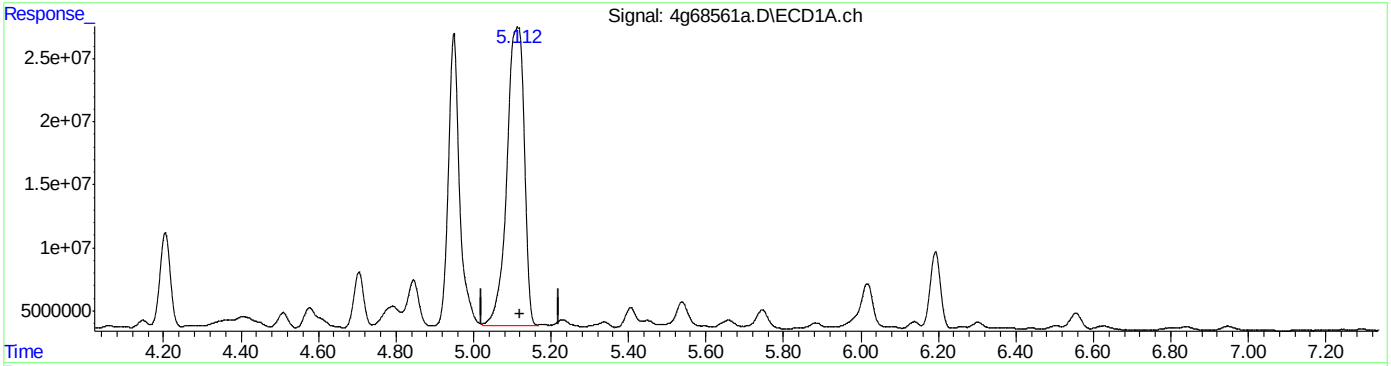
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.27	Split peak
Chlordane-E		2	7.73	Poorly defined baseline

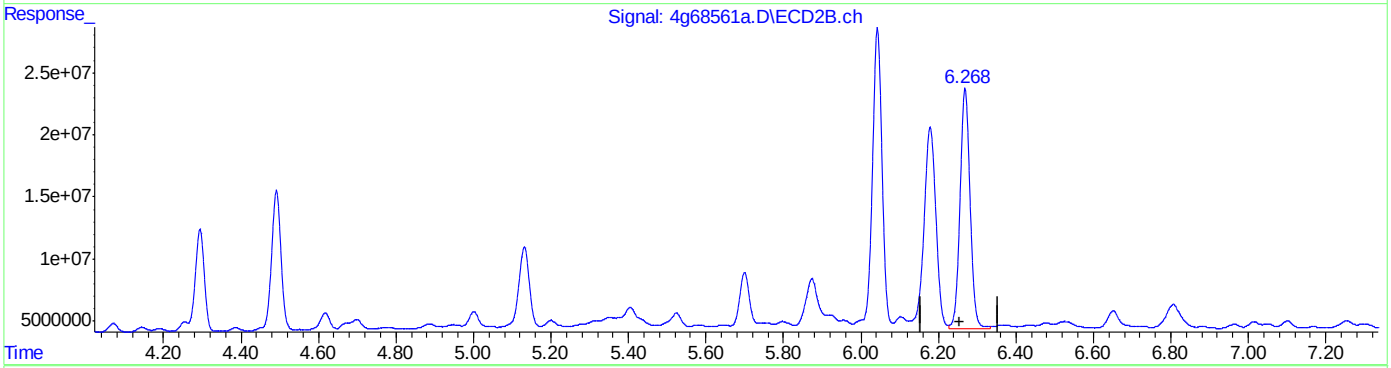
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68561a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:17 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:55:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.114min 437.361 PPB
response 735906065

(35) Chlordane {D} #2
6.269min 210.892 PPB
response 346250581

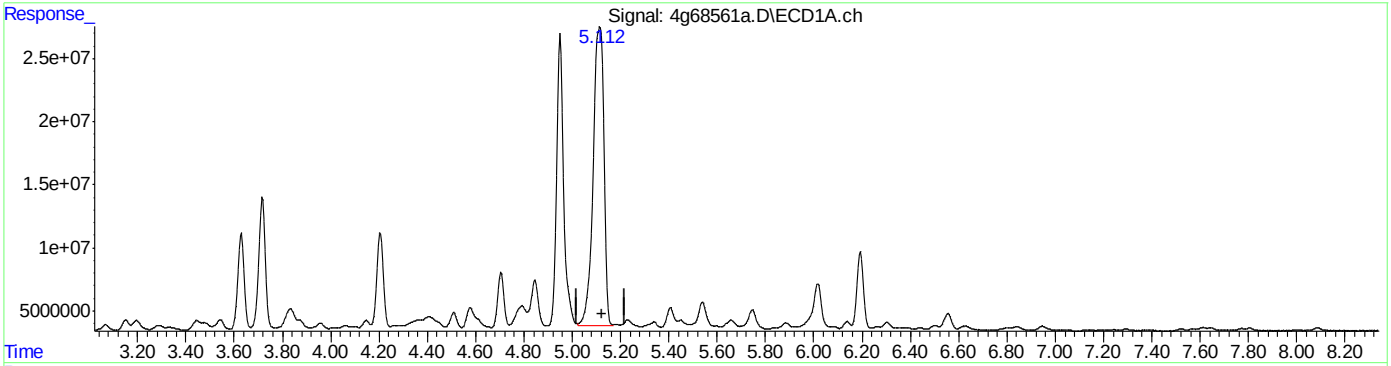
(+) = Expected Retention Time
4PST1799.M Wed May 25 09:55:23 2016 RPT1

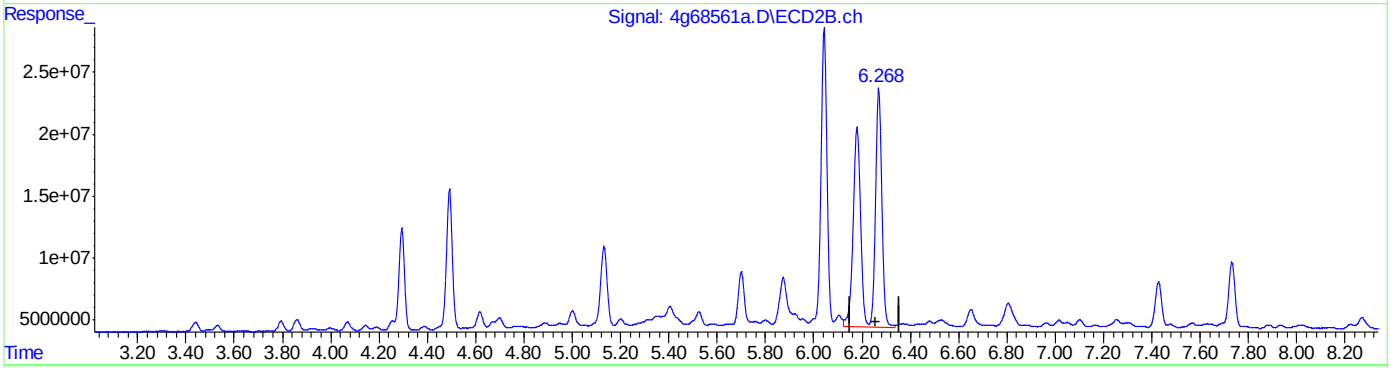
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68561a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:17 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:55:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.114min 437.361 PPB
response 735906065

(35) Chlordane {D} #2
6.268min 421.669 PPB m
response 692313313

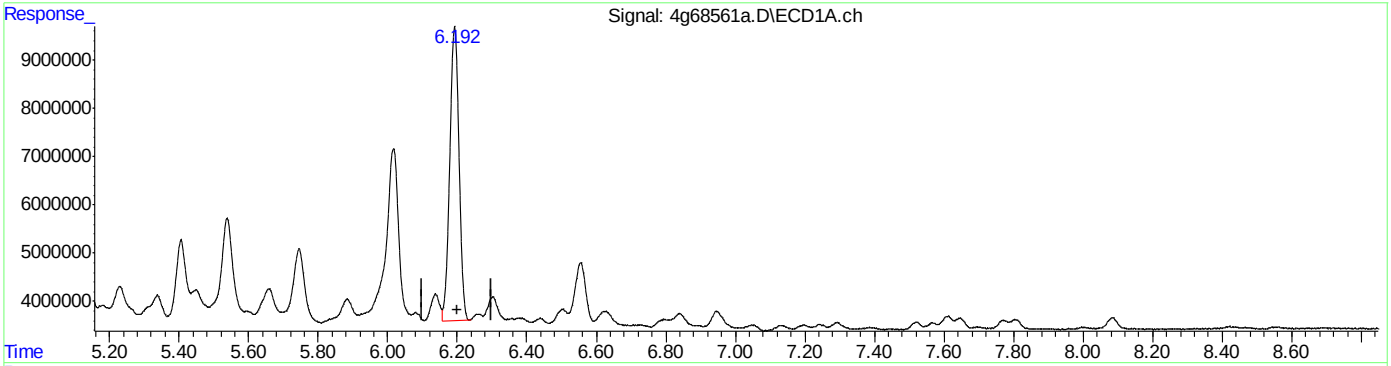
(+) = Expected Retention Time

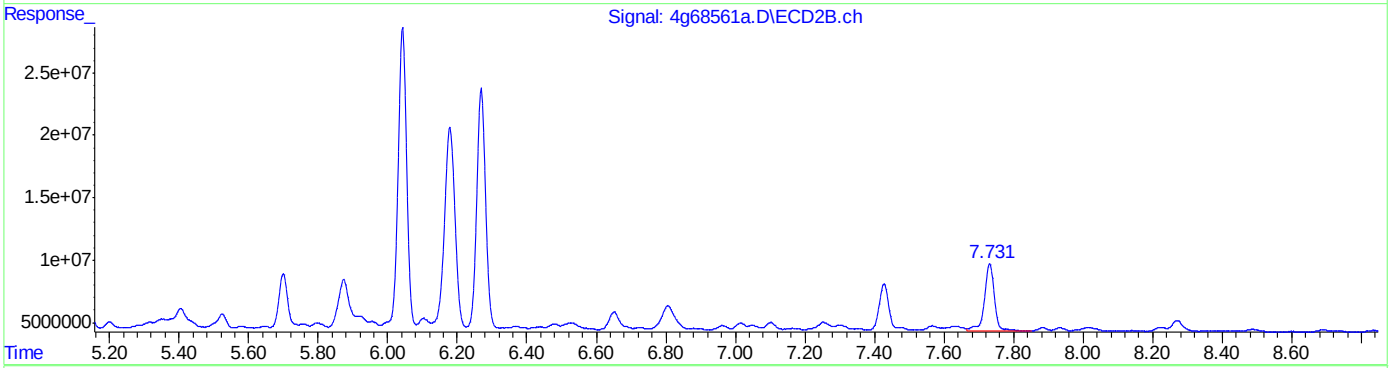
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68561a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:17 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:55:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(36) Chlordane {E}
6.193min 438.016 PPB
response 112612042

(36) Chlordane {E} #2
7.731min 458.411 PPB
response 109372790

(+) = Expected Retention Time
4PST1799.M Wed May 25 09:55:38 2016 RPT1

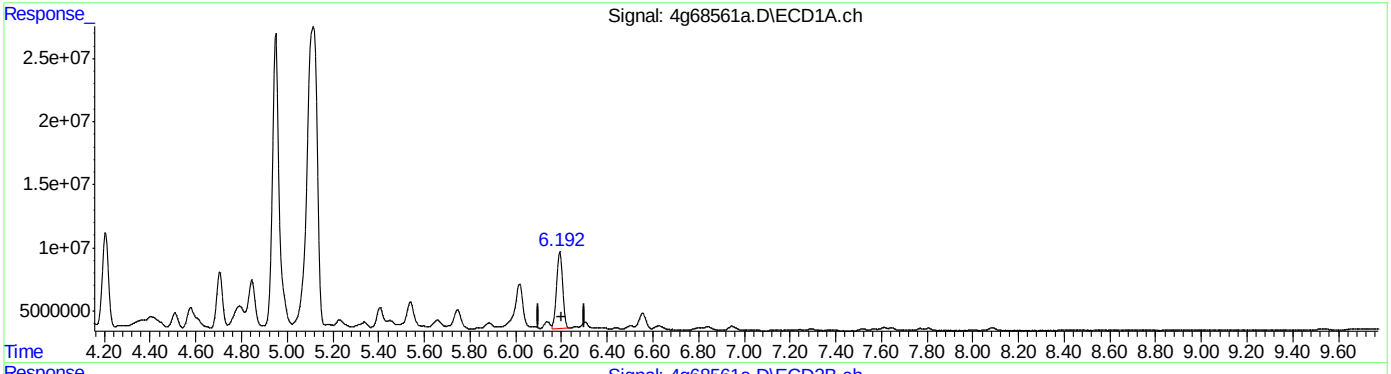
SGS ACCUTEST JC21229

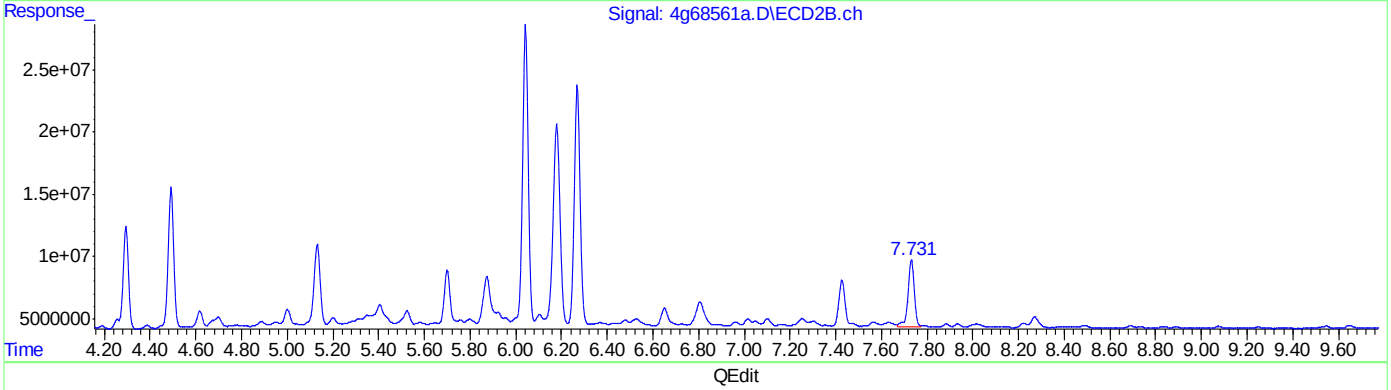
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68561a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:17 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:55:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(36) Chlordane {E}
6.193min 438.016 PPB
response 112612042

(36) Chlordane {E} #2
7.731min 441.014 PPB m
response 105222011

(+) = Expected Retention Time
4PST1799.M Wed May 25 09:55:45 2016 RPT1

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68562a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:32 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:57:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.890	2.067	434.3E6	365.5E6	50.000	50.000
25) I	1-bromo-2...	1.890	2.067	434.3E6	365.5E6	50.000	50.000
31) I	1-bromo-2...	1.890	2.067	434.3E6	365.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.450	2.848	323.3E6	288.8E6	43.009	43.442
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	107.52%	108.60%
24) SA	Decachlor...	9.830	11.181	274.2E6	204.9E6	42.408	41.418
	Spiked Amount 40.000			Recovery	=	106.02%	103.55%
	Target Compounds						
26) L8	Toxaphene{A}	5.646	6.765	60223899	41201272	523.753	427.484
27) L8	Toxaphene{B}	6.282	7.623	155.7E6	87369181	500.832	523.802
28) L8	Toxaphene{C}	6.465	7.783	121.3E6	142.6E6	518.092	461.408
29) L8	Toxaphene{D}	6.804	8.220	92928318	87114395	484.637	484.701
30) L8	Toxaphene{E}	7.467	9.123	99407704	73268453	481.758	474.494

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

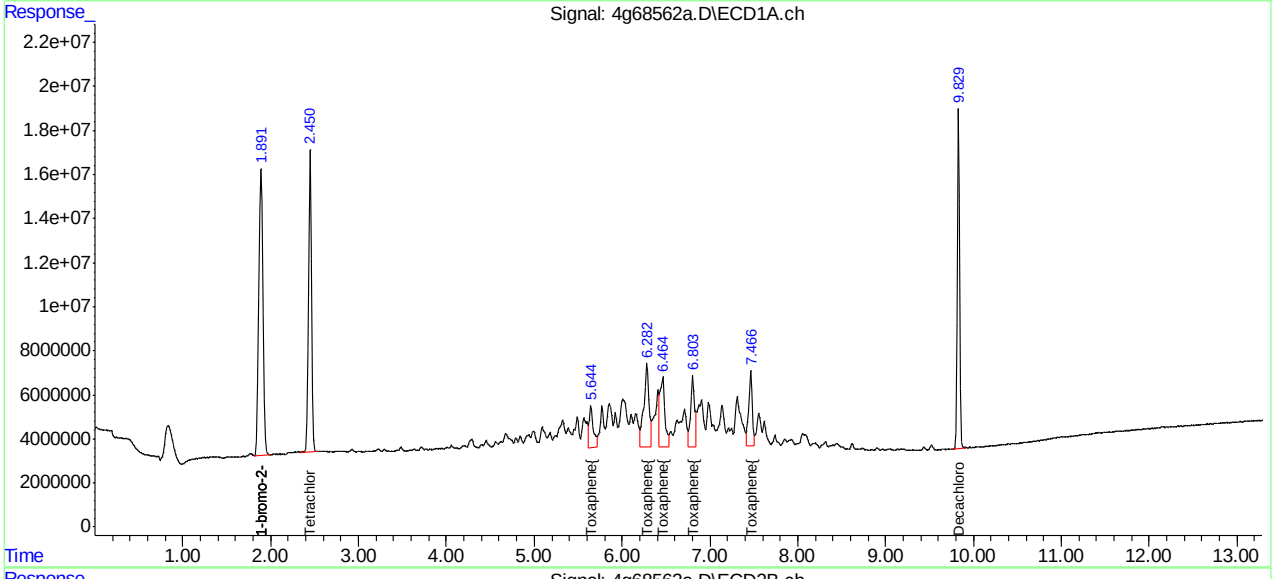
SGS ACCUTEST JC21229

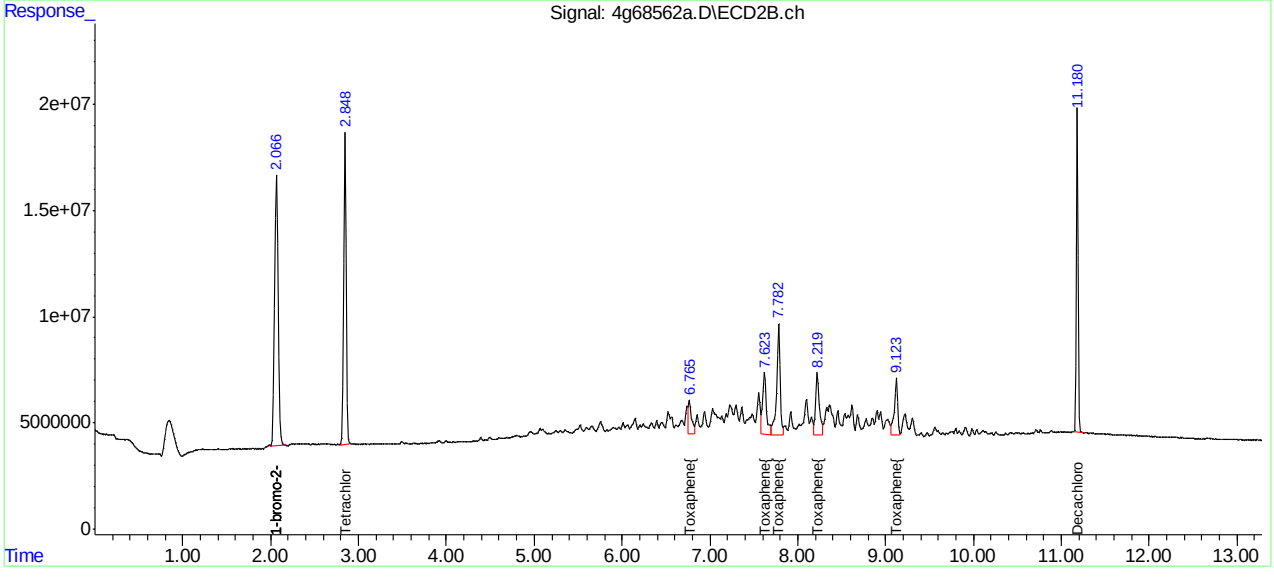
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1799\
Data File : 4g68562a.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2016 6:32 pm
Operator : dharas
Sample : icv1799-500
Misc : op94008,g4g1799,15.2,,,10,100
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 25 09:57:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:08 pm
Operator : dharas
Sample : cc1799-25
Misc : op94298,g4g1806,900,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:30:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.872f	2.050f	380.5E6	355.3E6	50.000	50.000	
25) I	1-bromo-2...	1.872	2.050	380.5E6	355.3E6	50.000	50.000	
31) I	1-bromo-2...	1.872	2.050	380.5E6	355.3E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.430f	2.828f	166.4E6	148.8E6	25.266	23.027	
Spiked Amount		40.000 Range	30 - 150	Recovery	=	63.16%	57.57%	
24) SA	Decachlor...	9.812f	11.165f	152.3E6	87238887	26.881	18.141	#
Spiked Amount		40.000		Recovery	=	67.20%	45.35%	
	Target Compounds							
3) A	alpha-BHC	2.906f	3.476f	244.3E6	225.5E6	27.175	25.097	
4) MA	gamma-BHC	3.203f	3.899f	222.2E6	202.3E6	27.105	24.589	
5) MA	Heptachlor	3.699f	4.473f	211.2E6	192.6E6	26.614	23.060	
6) B	beta-BHC	3.281f	3.980f	99416519	87923571	25.940	23.412	
7) B	delta-BHC	3.469	4.374f	212.0E6	188.0E6	28.662	25.435	
8) MB	Aldrin	4.039f	4.922f	206.2E6	192.6E6	27.689	25.119	
9) B	Heptachlo...	4.769f	5.740f	191.1E6	166.0E6	27.701	23.845	
10) B	gamma-Chl...	4.930f	6.022f	192.8E6	168.8E6	27.884	24.655	
11) B	alpha-Chl...	5.103f	6.247f	189.0E6	162.1E6	28.842	23.956	
12) A	Endosulfan I	5.291f	6.343f	185.7E6	159.6E6	28.252	24.828	
13) B	4,4'-DDE	5.212f	6.509f	186.7E6	165.3E6	27.557	23.876	
14) MA	Dieldrin	5.618f	6.777f	195.9E6	167.7E6	29.092	24.803	
15) MA	Endrin	5.947f	7.280f	174.6E6	139.9E6	29.226	25.141	
16) A	4,4'-DDD	6.065f	7.456f	154.4E6	126.4E6	28.663	23.735	
17) B	Endosulfa...	6.277f	7.628f	170.1E6	139.3E6	27.927	22.515	
18) MA	4,4'-DDT	6.484f	7.988f	124.7E6	99200788	22.440	18.267	
19) B	Endrin Al...	6.921f	8.197f	135.0E6	104.9E6	27.655	22.510	
20) B	Endosulfa...	7.621f	8.665f	147.3E6	108.6E6	27.181	21.162	
21) A	Methoxychlor	7.276	9.226f	68949708	48602432	21.881	16.017	#
22)	Mirex	7.421f	9.559f	135.0E6	87561260	27.147	19.941	#
23) B	Endrin Ke...	8.059f	9.621f	178.0E6	122.0E6	27.565	20.745	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

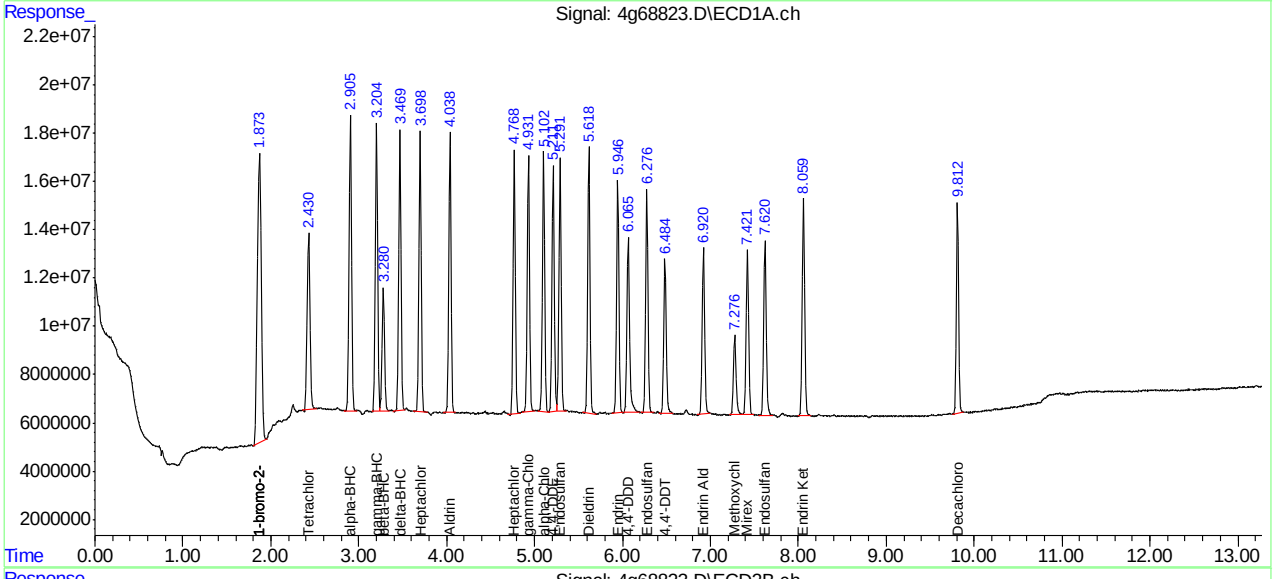
SGS ACCUTEST JC21229

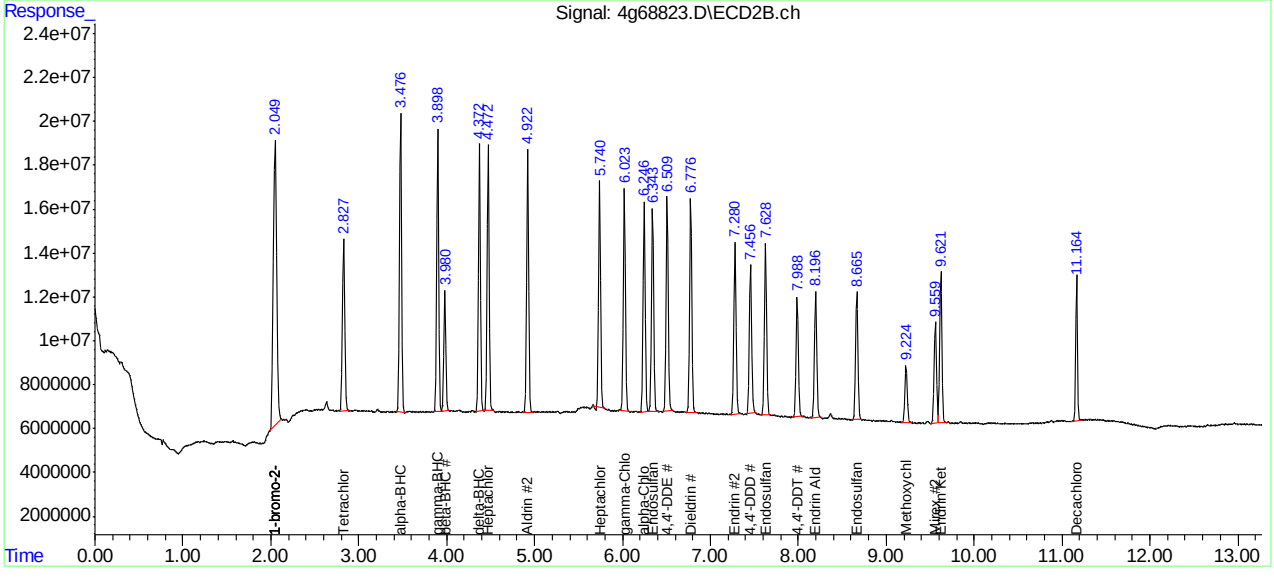
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1806\
Data File : 4g68823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Jun 2016 12:08 pm
Operator : dharas
Sample : cc1799-25
Misc : op94298,g4g1806,900,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 02 12:30:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1799.M
Quant Title : PEST/PCB
QLast Update : Wed May 25 09:54:44 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.873	2.051	410.5E6	341.8E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.432	2.826	7471911	6427929	1.052	1.034
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	2.63%#	2.59%#
24) SA	Decachlor...	9.806	11.162	6822403	3473087	1.116	0.751m#
	Spiked Amount 40.000			Recovery	=	2.79%	1.88%
	Target Compounds						
3) A	alpha-BHC	2.904	3.472	10246597	8268063	1.057	0.957
4) MA	gamma-BHC	3.200	3.892	9094344	8509409	1.028	1.075
5) MA	Heptachlor	3.695	4.467	9423066	7795486	1.101	0.970
6) B	beta-BHC	3.279	3.975	4583511	4280633	1.109	1.185
7) B	delta-BHC	3.465	4.367	8758269	7018590	1.097m	0.987
8) MB	Aldrin	4.034	4.916	8690459	8975400	1.082	1.217
9) B	Heptachlo...	4.766	5.731	8693992	6351978	1.168	0.948m
10) B	gamma-Chl...	4.924	6.013	8965773	6661649	1.202	1.011
11) B	alpha-Chl...	5.097	6.239	8546486	6732346	1.209	1.034
12) A	Endosulfan I	5.287	6.334	7527372	6210346	1.061	1.004
13) B	4,4'-DDE	5.207	6.499	7568059	6889707	1.036	1.034
14) MA	Dieldrin	5.613	6.769	8897954	6699999	1.225	1.030
15) MA	Endrin	5.943	7.270	7462276	5510626	1.158	1.030
16) A	4,4'-DDD	6.059	7.445	6530853	5052151	1.124	0.986
17) B	Endosulfa...	6.272	7.618	7485753	5866020	1.139	0.985
18) MA	4,4'-DDT	6.480	7.977	6380702	4832827	1.064	0.925
19) B	Endrin Al...	6.917	8.189	6053703	4355133	1.149	0.972
20) B	Endosulfa...	7.615	8.655	6551312	4428149	1.121	0.897
21) A	Methoxychlor	7.272	9.212	3445886	2189294	1.014	0.750 #
22)	Mirex	7.415	9.550	6149986	3623483	1.146	0.858 #
23) B	Endrin Ke...	8.053	9.611	8165332	4933503	1.172	0.872 #

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

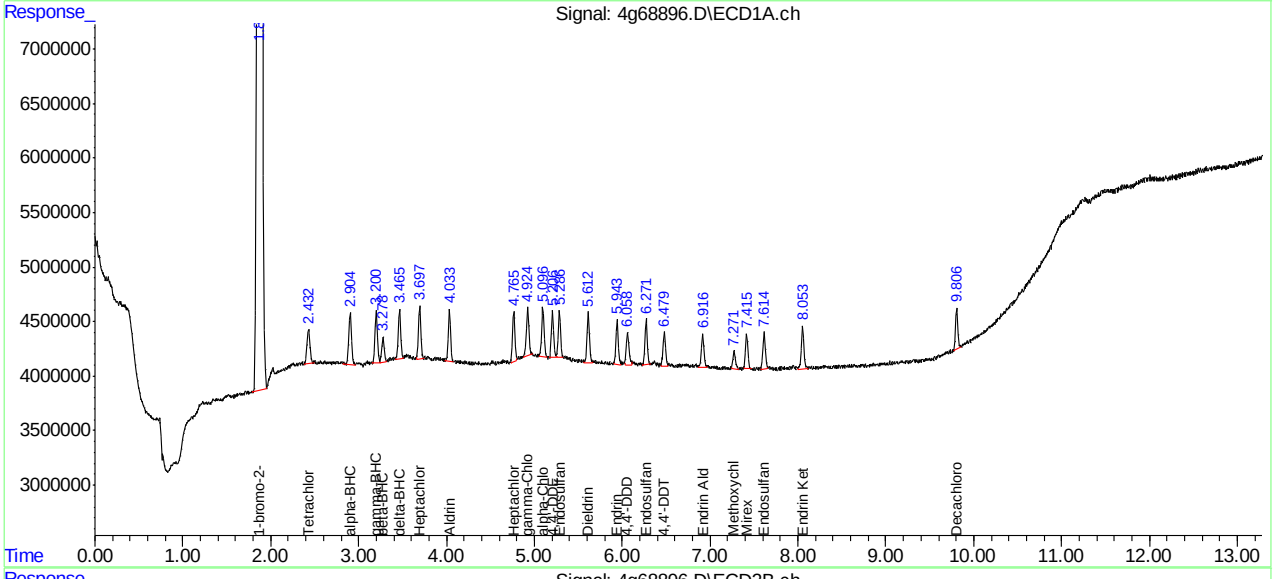
11.6.37 11

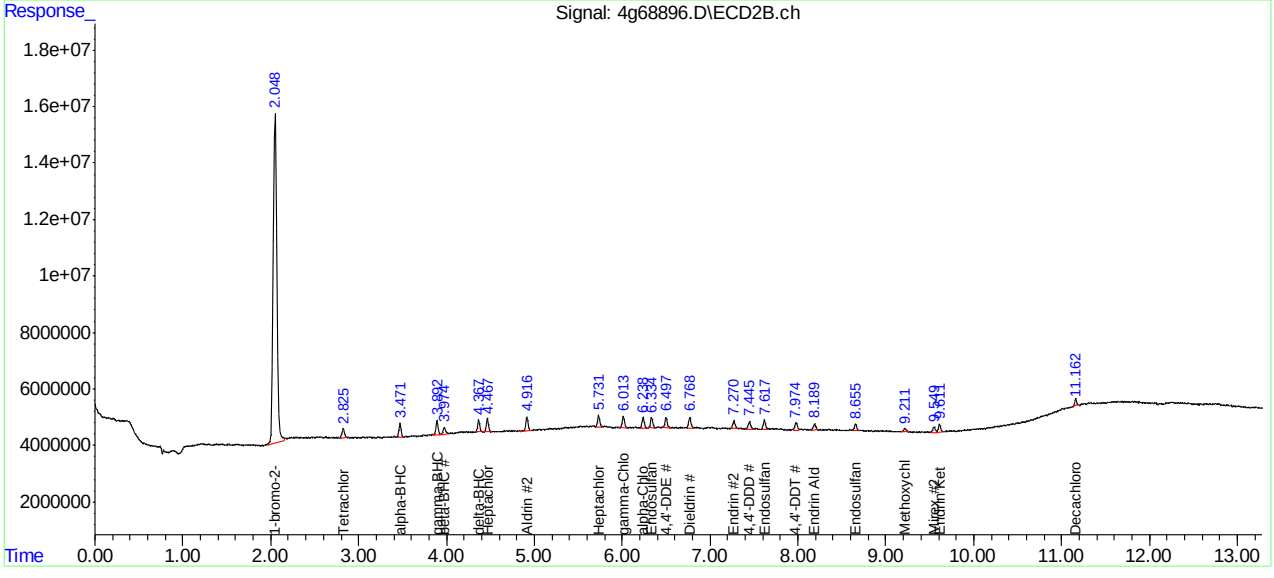
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1811-IC1811	**Method:**	SW846 8081B
Lab FileID:	4G68896.D	**Analyst approved:**	06/06/16 16:55 Joseph Ravino
Injection Time:	06/06/16 11:46	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

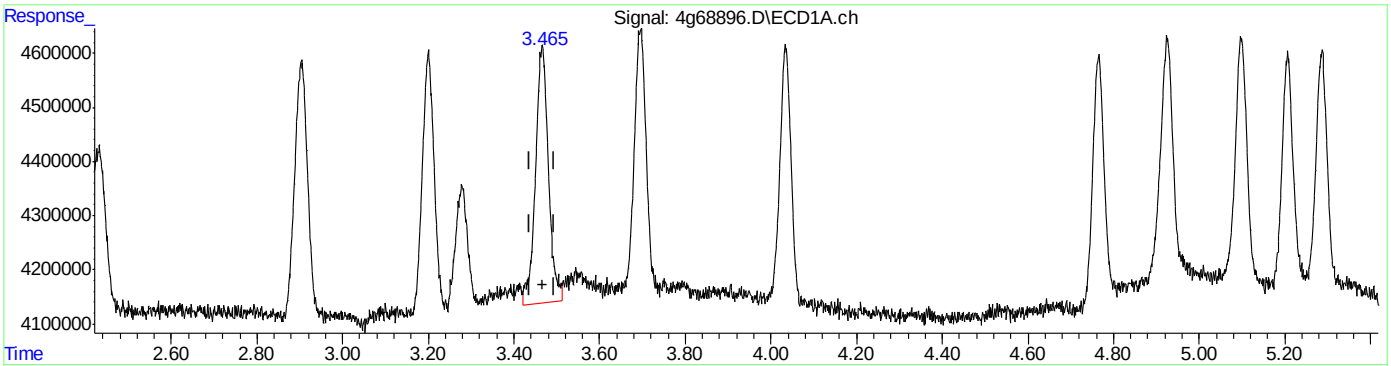
Parameter	CAS	Sig#	R.T. (min.)	Reason
delta-BHC	319-86-8	1	3.47	Poorly defined baseline
Heptachlor epoxide	1024-57-3	2	5.73	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	2	11.16	Poorly defined baseline

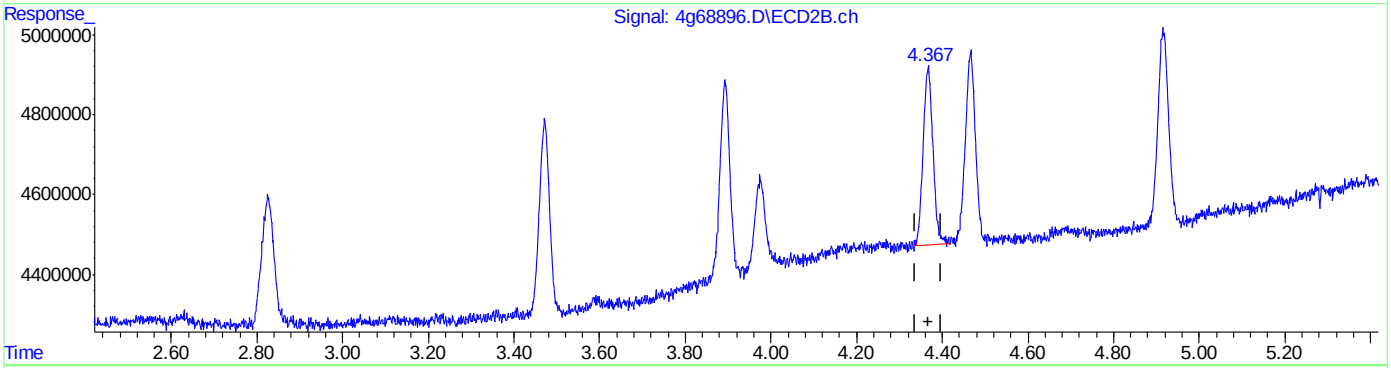
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:23:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(7) delta-BHC (B)
3.466min 1.245 PPB
response 9936848

(7) delta-BHC #2 (B)
4.367min 0.987 PPB
response 7018590

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:23:44 2016 RPT1

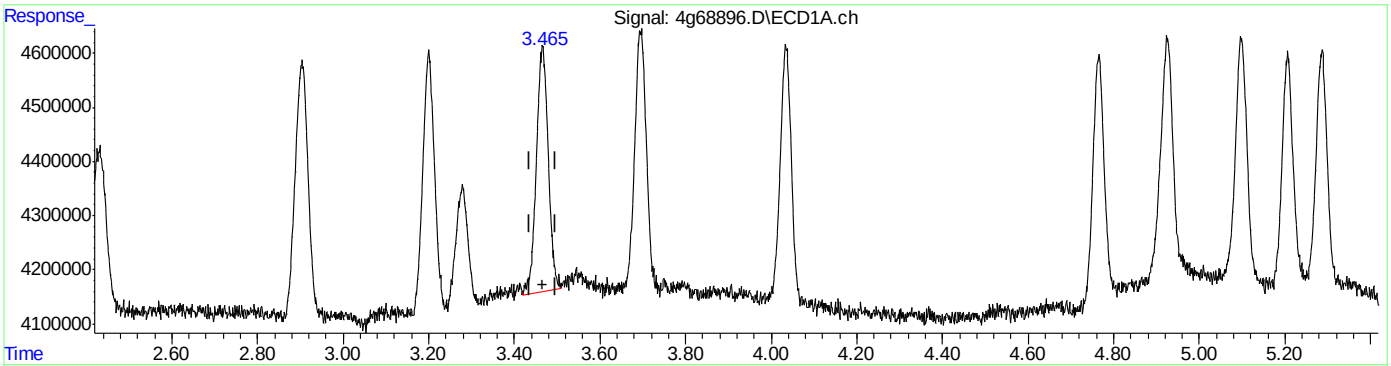
SGS ACCUTEST JC21229

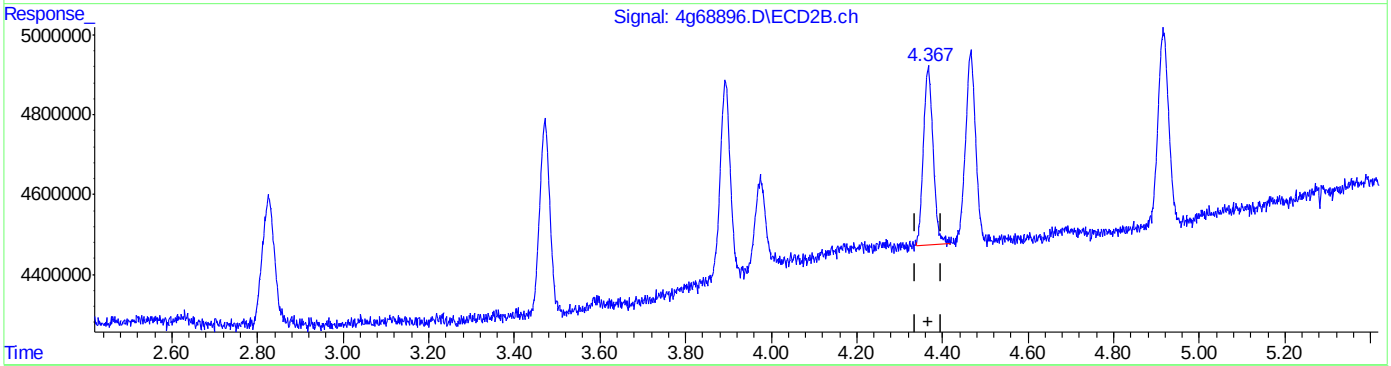
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:23:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(7) delta-BHC (B)
3.465min 1.097 PPB m
response 8758269

(7) delta-BHC #2 (B)
4.367min 0.987 PPB
response 7018590

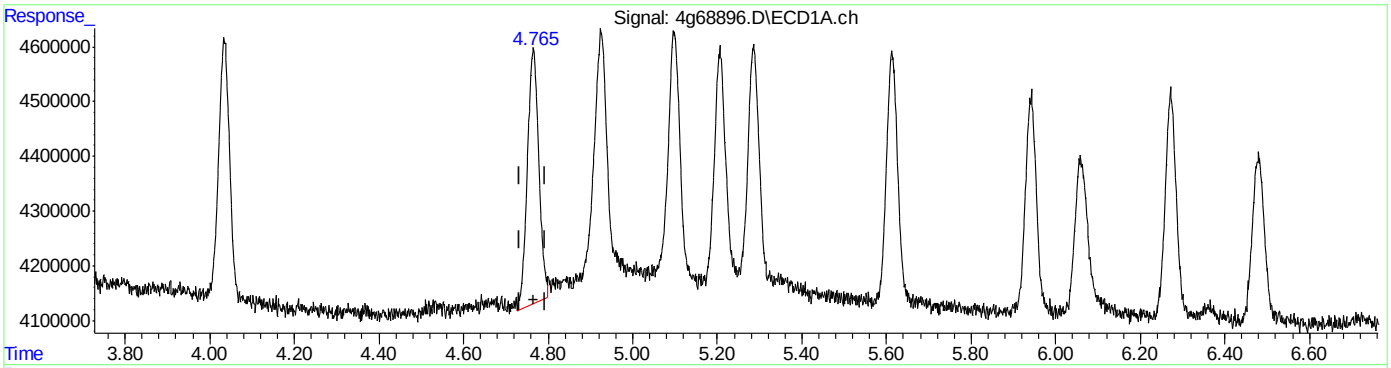
(+) = Expected Retention Time

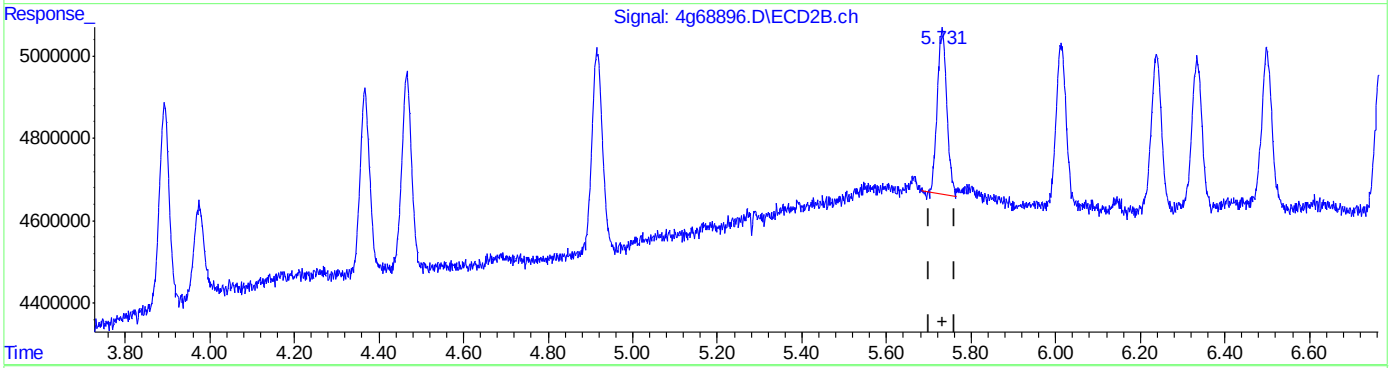
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:23:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(9) Heptachlor Epoxide (B)
4.766min 1.168 PPB
response 8693992

(9) Heptachlor Epoxide #2 (B)
5.732min 0.934 PPB
response 6257111

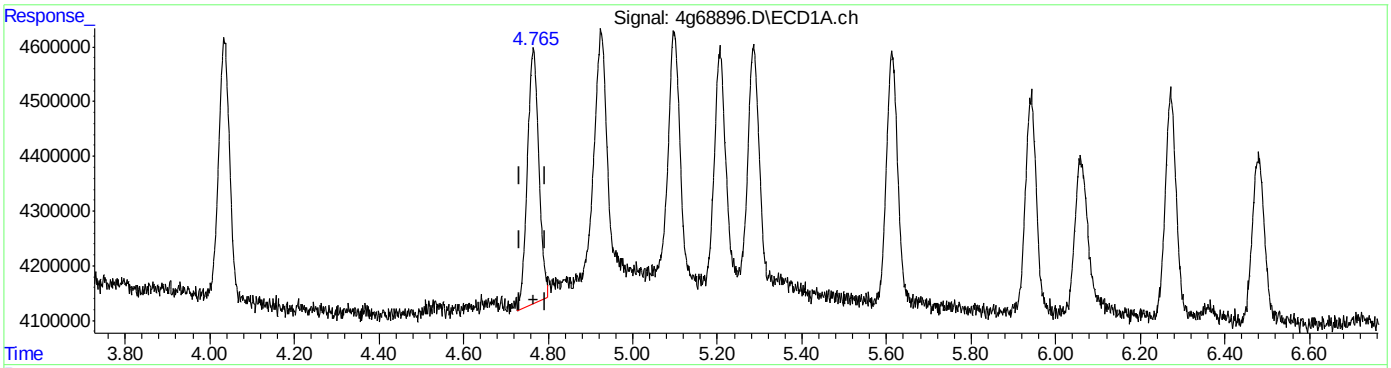
(+) = Expected Retention Time

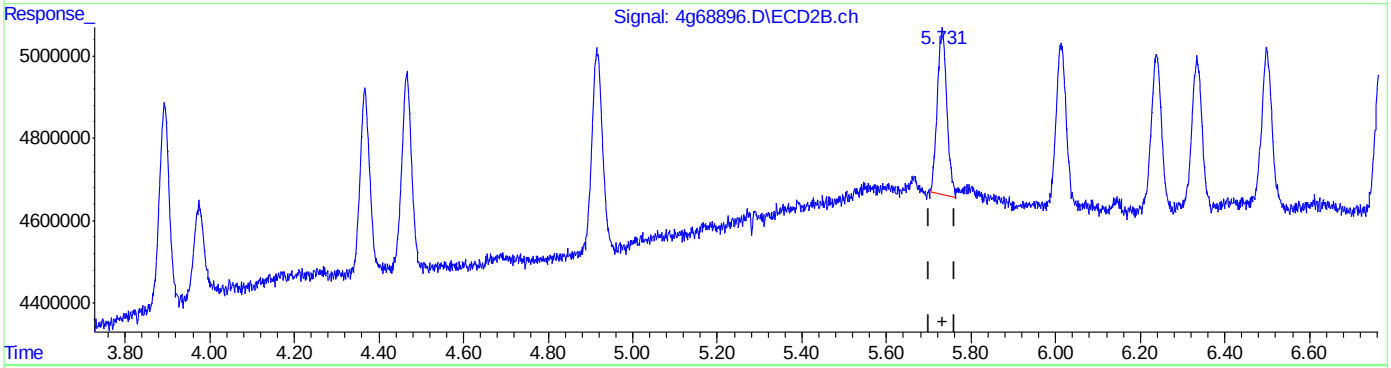
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:23:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(9) Heptachlor Epoxide (B)
4.766min 1.168 PPB
response 8693992

(9) Heptachlor Epoxide #2 (B)
5.731min 0.948 PPB m
response 6351978

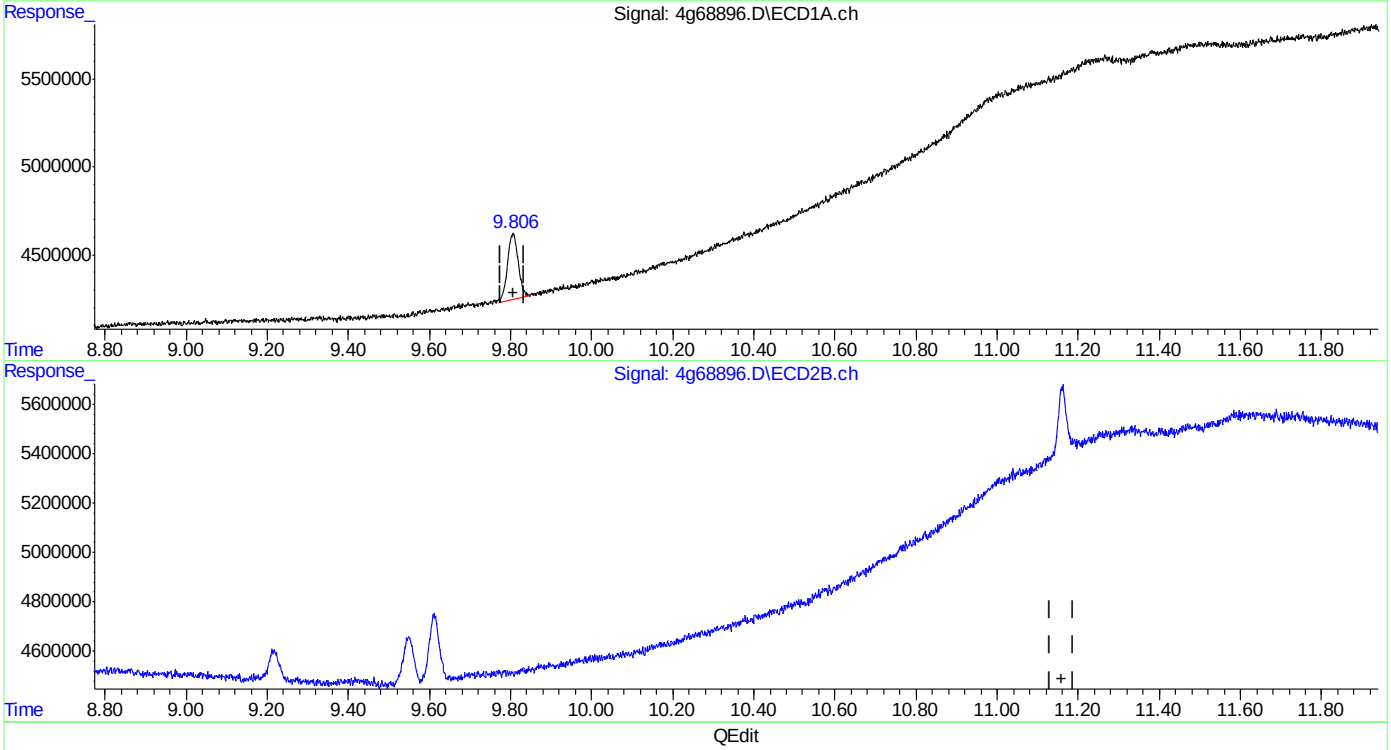
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:23:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.806min 1.116 PPB
response 6822403

(24) Decachlorobiphenyl #2 (SA)
0.000min 0.000 PPB
response 0

(+) = Expected Retention Time

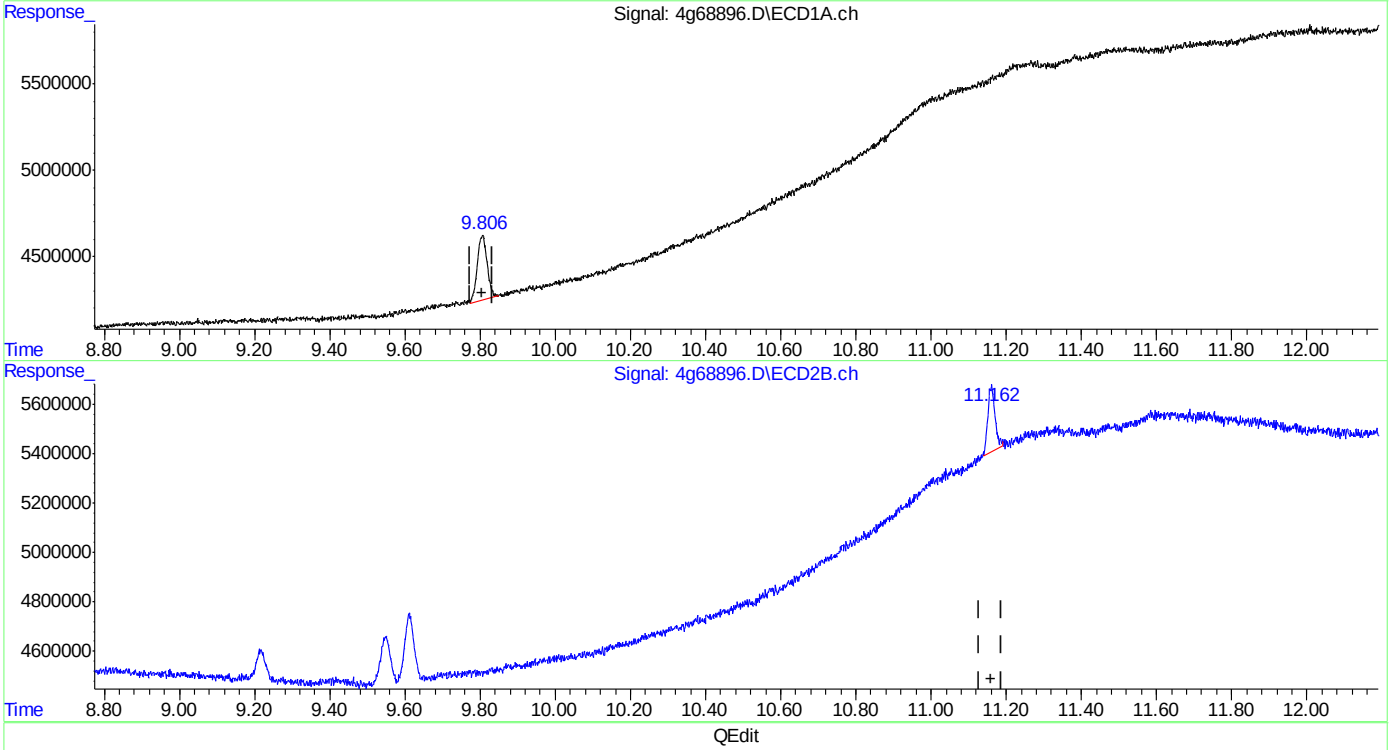
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 11:46 am
Operator : josephr
Sample : ic1811-1
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:23:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.806min 1.116 PPB
response 6822403

(24) Decachlorobiphenyl #2 (SA)
11.162min 0.751 PPB m
response 3473087

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68897.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:01 pm
Operator : josephr
Sample : ic1811-2
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	Internal Standards							
1) I	1-bromo-2...	1.873	2.050	434.1E6	346.0E6	50.000	50.000	
	System Monitoring Compounds							
2) SAB	Tetrachlo...	2.429	2.824	15526434	12475433	2.067	1.983	
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	5.17%#	4.96%#	
24) SA	Decachlor...	9.805	11.162	13449149	7504248	2.081	1.602	
	Spiked Amount 40.000			Recovery	=	5.20%	4.00%	
	Target Compounds							
3) A	alpha-BHC	2.902	3.472	20032961	16816222	1.954	1.922	
4) MA	gamma-BHC	3.200	3.893	18409988	16886362	1.969	2.107	
5) MA	Heptachlor	3.694	4.465	18322420	15963532	2.024	1.962	
6) B	beta-BHC	3.278	3.975	8825663	8174663	2.019	2.235	
7) B	delta-BHC	3.466	4.367	17106425	14480536	2.027	2.012	
8) MB	Aldrin	4.034	4.916	17200940	15977912	2.025	2.139	
9) B	Heptachlo...	4.764	5.733	16690071	13284925	2.121	1.959	
10) B	gamma-Chl...	4.926	6.015	16438128	13586801	2.084	2.037	
11) B	alpha-Chl...	5.099	6.239	16432627	13848003	2.198	2.101	
12) A	Endosulfan I	5.285	6.334	15720124	13206111	2.096	2.109	
13) B	4,4'-DDE	5.207	6.500	15555419	14102584	2.013	2.091	
14) MA	Dieldrin	5.612	6.769	16185375	13262104	2.107	2.014	
15) MA	Endrin	5.941	7.272	14026914	11710399	2.058	2.161	
16) A	4,4'-DDD	6.061	7.449	12987378	10205538	2.114	1.968	
17) B	Endosulfa...	6.272	7.620	14944674	12011388	2.151	1.993	
18) MA	4,4'-DDT	6.480	7.979	12649699	9230354	1.995	1.745	
19) B	Endrin Al...	6.915	8.187	11488603	8605584	2.063	1.896	
20) B	Endosulfa...	7.615	8.656	14013290	9268743	2.267	1.854	
21) A	Methoxychlor	7.272	9.220	7346169	4759128	2.044	1.610	
22)	Mirex	7.416	9.547	12753204	7036565	2.248	1.645	#
23) B	Endrin Ke...	8.054	9.611	14918931	9432118	2.026	1.647	

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

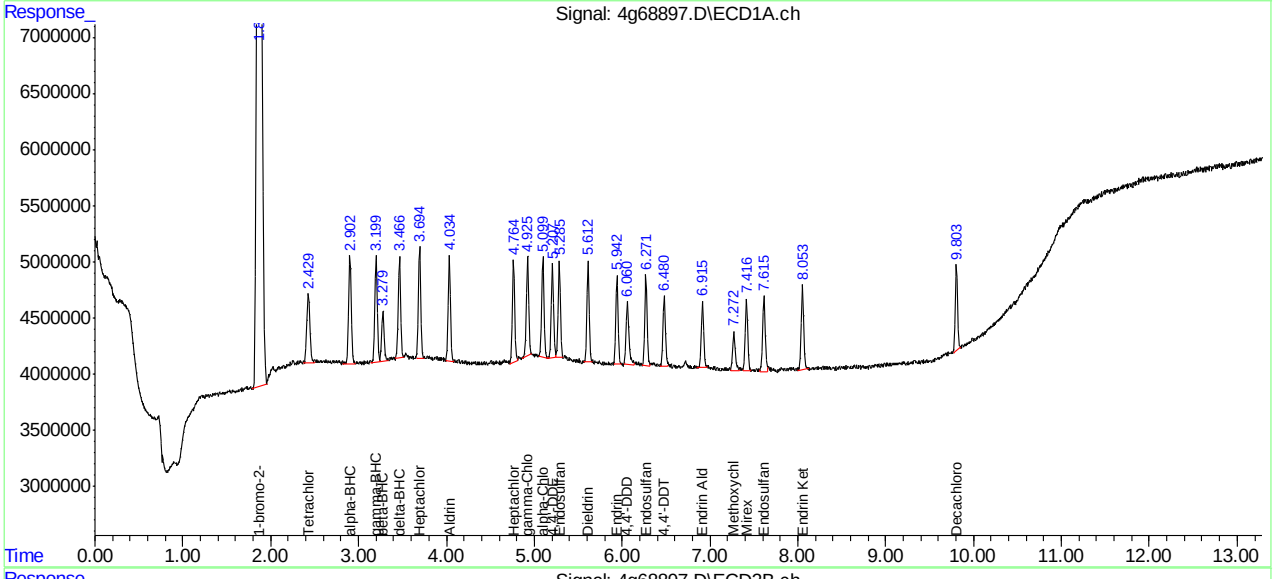
SGS ACCUTEST JC21229

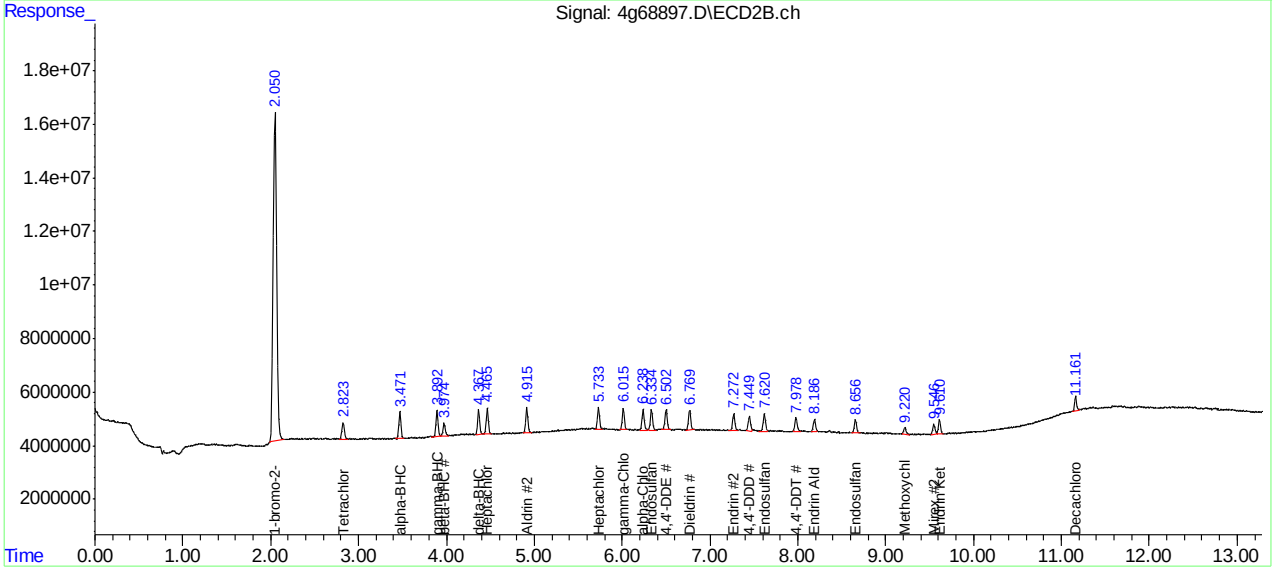
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68897.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:01 pm
Operator : josephr
Sample : ic1811-2
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:16 pm
Operator : josephr
Sample : ic1811-5
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.874	2.049	431.3E6	349.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430	2.825	38141802	32230464	5.110	5.072
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	12.78%#	12.68%#
24) SA	Decachlor...	9.807	11.161	33571186	17399685	5.229m	3.679 #
	Spiked Amount 40.000			Recovery	=	13.07%	9.20%
	Target Compounds						
3) A	alpha-BHC	2.904	3.471	50098727	42663128	4.918	4.828
4) MA	gamma-BHC	3.201	3.892	46402180	39847518	4.994	4.924
5) MA	Heptachlor	3.695	4.466	46136104	40790817	5.130	4.965
6) B	beta-BHC	3.278	3.973	22429237	18969776	5.164	5.135
7) B	delta-BHC	3.466	4.367	45037380	37284739	5.372	5.129
8) MB	Aldrin	4.035	4.915	43129114	38347411	5.111	5.085
9) B	Heptachlo...	4.765	5.732	40179243	34365985	5.140	5.018
10) B	gamma-Chl...	4.925	6.014	42316502	34674107	5.400	5.149
11) B	alpha-Chl...	5.099	6.238	40817211	33261481	5.495	4.997
12) A	Endosulfan I	5.287	6.334	40265263	31900477	5.405	5.044
13) B	4,4'-DDE	5.207	6.500	39263218	33115701	5.114	4.862
14) MA	Dieldrin	5.613	6.769	40209352	33916934	5.269	5.101
15) MA	Endrin	5.942	7.271	36084559	30041029	5.330	5.489
16) A	4,4'-DDD	6.060	7.448	31790276	27667298	5.208	5.283
17) B	Endosulfa...	6.272	7.619	36854574	30058462	5.339	4.939
18) MA	4,4'-DDT	6.479	7.979	31326067	25523541	4.973	4.778
19) B	Endrin Al...	6.915	8.188	30385525	22798037	5.492	4.975
20) B	Endosulfa...	7.614	8.657	33305616	23595961	5.424	4.674
21) A	Methoxychlor	7.272	9.218	18082934	11781279	5.064	3.947
22)	Mirex	7.417	9.546	31871961	18478041	5.655	4.278m
23) B	Endrin Ke...	8.052	9.613	37676490	24341724	5.150	4.210

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.39 11

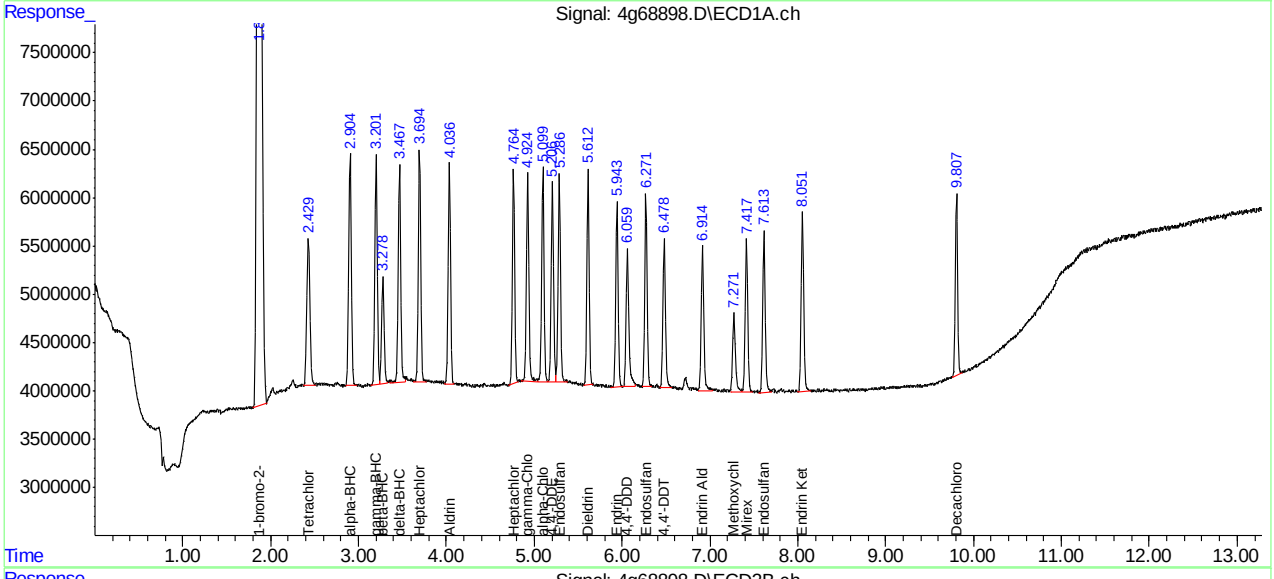
SGS ACCUTEST JC21229

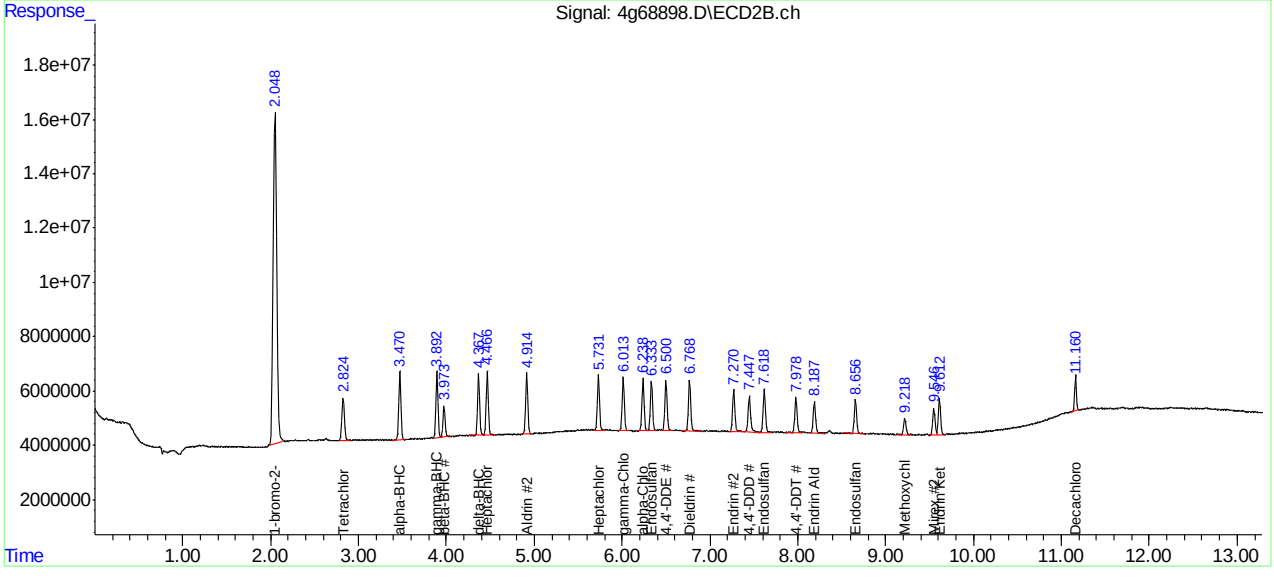
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:16 pm
Operator : josephr
Sample : ic1811-5
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1811-IC1811	**Method:**	SW846 8081B
Lab FileID:	4G68898.D	**Analyst approved:**	06/06/16 16:55 Joseph Ravino
Injection Time:	06/06/16 12:16	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

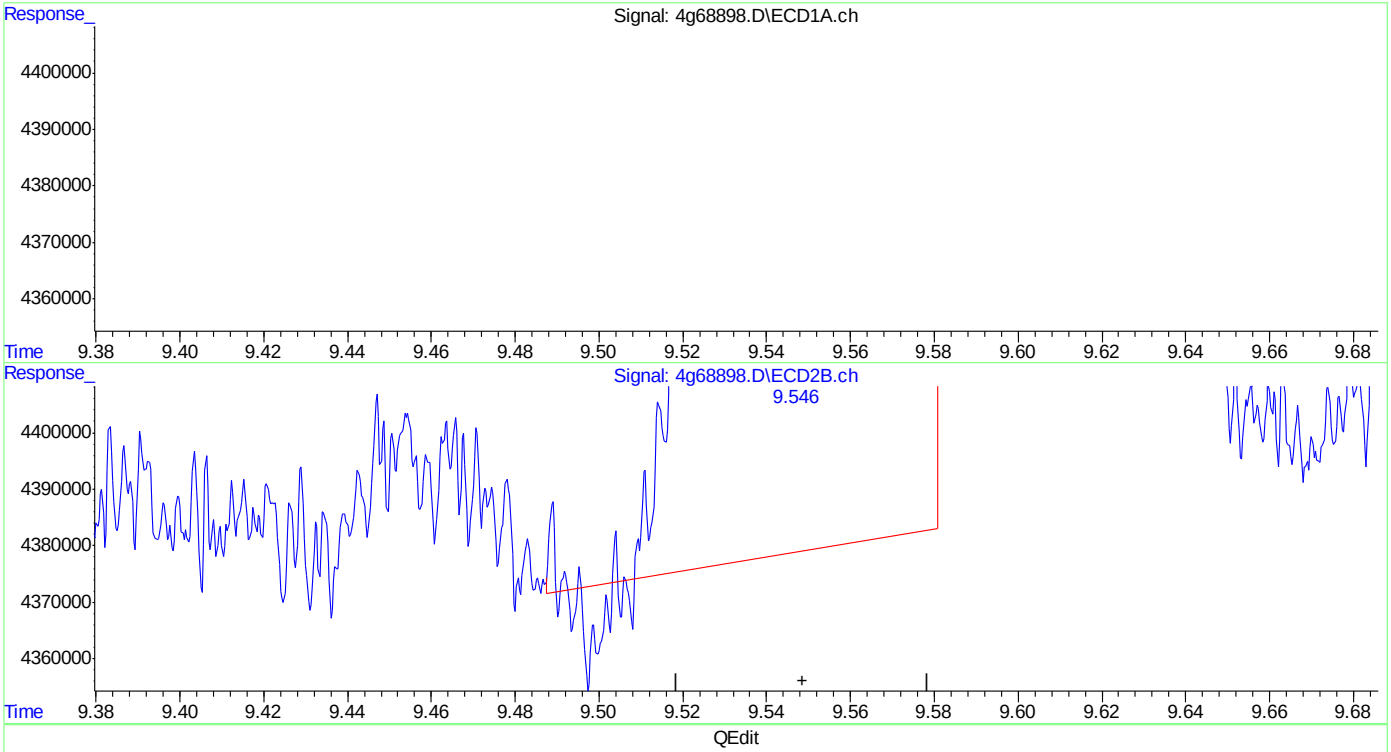
Parameter	CAS	Sig#	R.T. (min.)	Reason
Mirex	2385-85-5	2	9.55	Poorly defined baseline
Decachlorobiphenyl	2051-24-3	1	9.81	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:16 pm
Operator : josephr
Sample : ic1811-5
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:26:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(22) Mirex
7.417min 5.655 PPB
response 31871961

(22) Mirex #2
9.548min 4.270 PPB
response 18442964

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:27:01 2016 RPT1

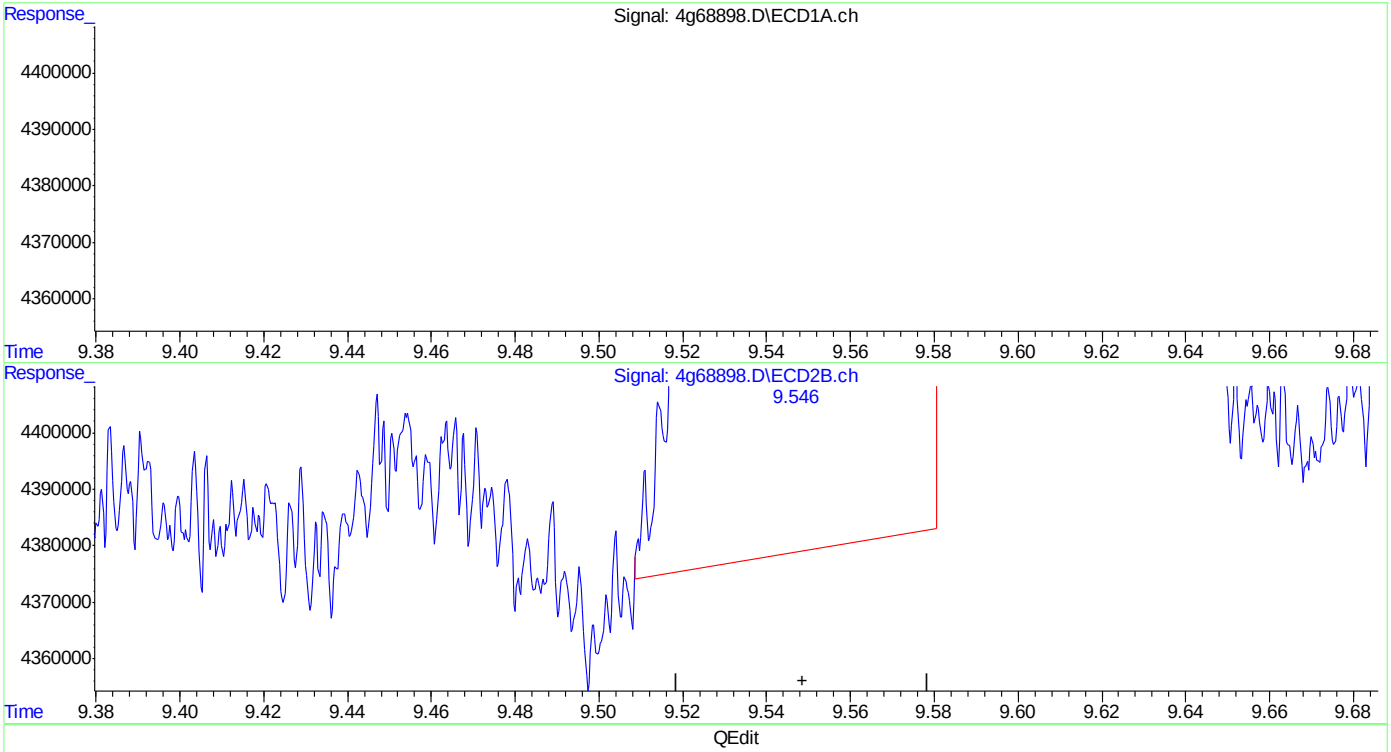
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:16 pm
Operator : josephr
Sample : ic1811-5
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:26:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(22) Mirex
7.417min 5.655 PPB
response 31871961

(22) Mirex #2
9.546min 4.278 PPB m
response 18478041

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:27:12 2016 RPT1

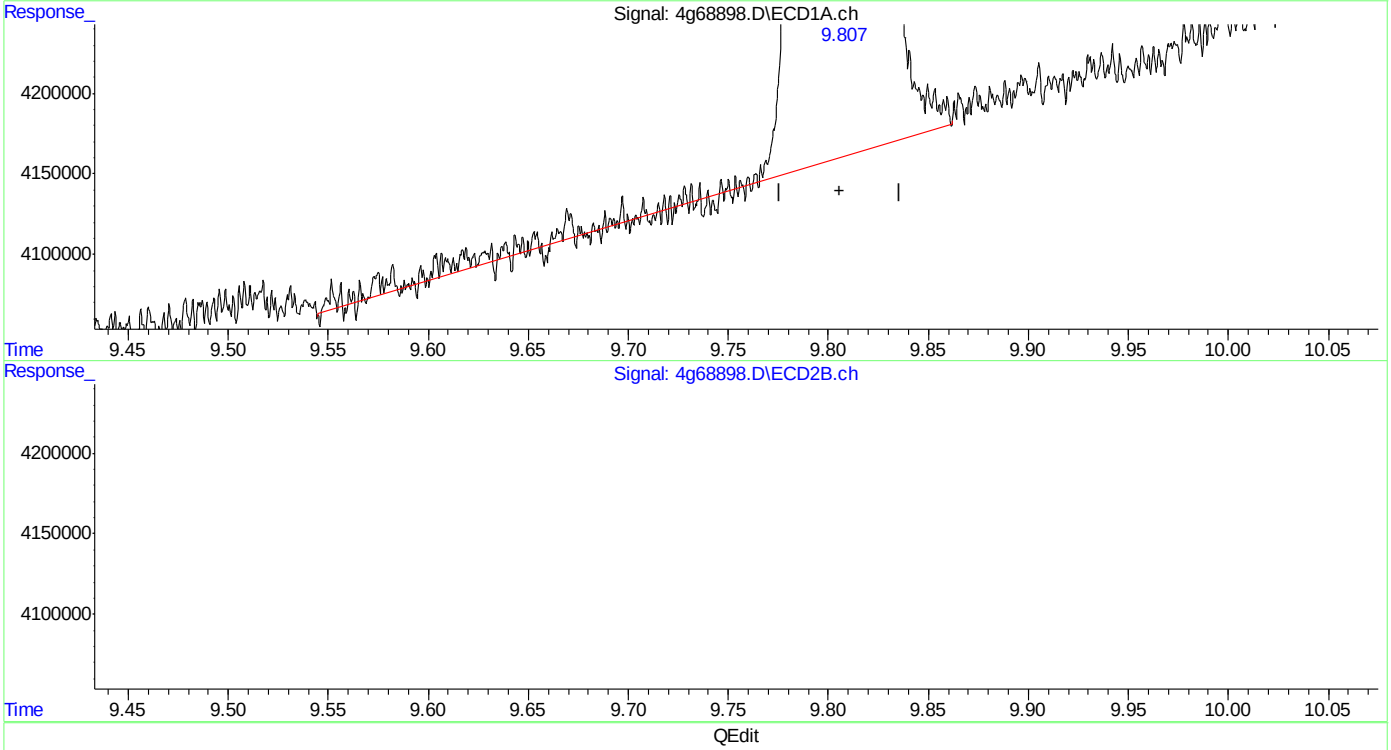
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:16 pm
Operator : josephr
Sample : ic1811-5
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:26:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.807min 5.268 PPB
response 33827644

(24) Decachlorobiphenyl #2 (SA)
11.161min 3.679 PPB
response 17399685

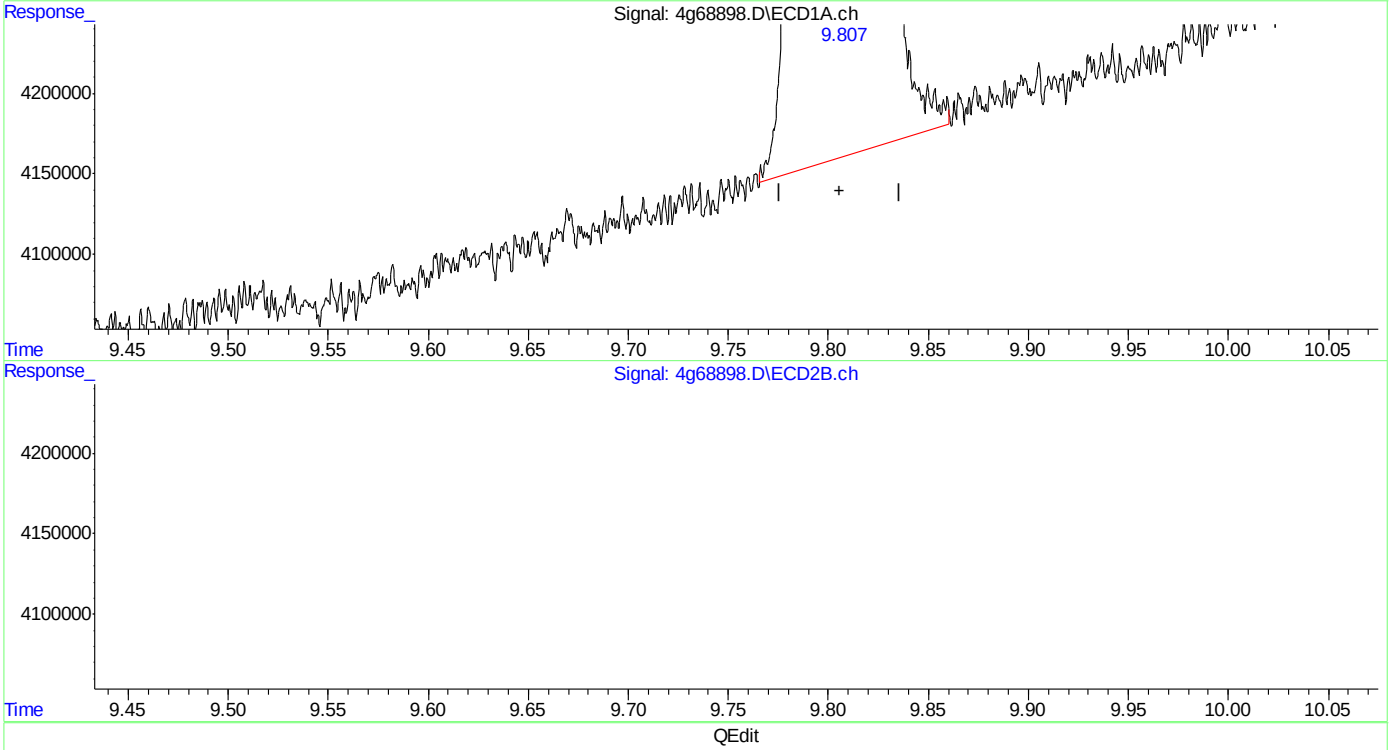
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:16 pm
Operator : josephr
Sample : ic1811-5
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:26:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.807min 5.229 PPB m
response 33571186

(24) Decachlorobiphenyl #2 (SA)
11.161min 3.679 PPB
response 17399685

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68899.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:31 pm
Operator : josephr
Sample : ic1811-10
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.873	2.051	424.0E6	346.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.431	2.826	73681186	62573842	10.041	9.941
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	25.10%#	24.85%#
24) SA	Decachlor...	9.805	11.161	65396888	34296631	10.360	7.320 #
	Spiked Amount 40.000			Recovery	=	25.90%	18.30%
	Target Compounds						
3) A	alpha-BHC	2.906	3.473	99284615	86047492	9.914	9.829
4) MA	gamma-BHC	3.201	3.894	92028686	79085040	10.075	9.866
5) MA	Heptachlor	3.696	4.466	88229384	78402912	9.978	9.633
6) B	beta-BHC	3.277	3.975	44061492	37015079	10.319	10.116
7) B	delta-BHC	3.466	4.368	86646293	74281868	10.513	10.316
8) MB	Aldrin	4.035	4.916	83462109	75909197	10.060	10.161
9) B	Heptachlo...	4.765	5.732	78997833	65984703	10.279	9.726
10) B	gamma-Chl...	4.926	6.014	79121539	66321756	10.270	9.941
11) B	alpha-Chl...	5.099	6.240	76293391	65626575	10.447	9.952
12) A	Endosulfan I	5.287	6.335	75883396	62944126	10.360	10.047
13) B	4,4'-DDE	5.207	6.502	74532257	64888421	9.874	9.617
14) MA	Dieldrin	5.613	6.769	78133905	65578335	10.415	9.957
15) MA	Endrin	5.942	7.271	68836416	56140484	10.341	10.356
16) A	4,4'-DDD	6.059	7.448	61191164	51179734	10.197	9.866
17) B	Endosulfa...	6.272	7.620	69804733	57446328	10.286	9.528
18) MA	4,4'-DDT	6.479	7.979	61849432	47211830	9.987	8.922
19) B	Endrin Al...	6.916	8.190	56989035	42606983	10.478	9.386
20) B	Endosulfa...	7.615	8.656	63123006	44986646	10.456	8.995
21) A	Methoxychlor	7.272	9.218	34764847	22613385	9.902	7.649
22)	Mirex	7.416	9.549	60243335	36061255	10.872	8.429
23) B	Endrin Ke...	8.052	9.612	72530979	47117262	10.083	8.226

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.40 11

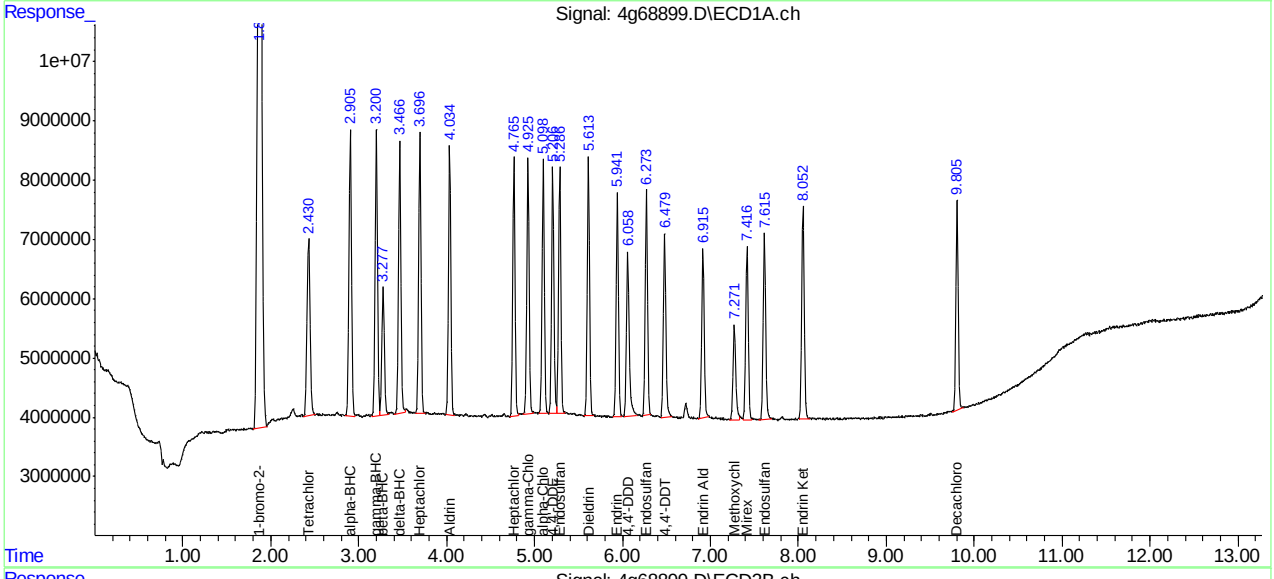
SGS ACCUTEST JC21229

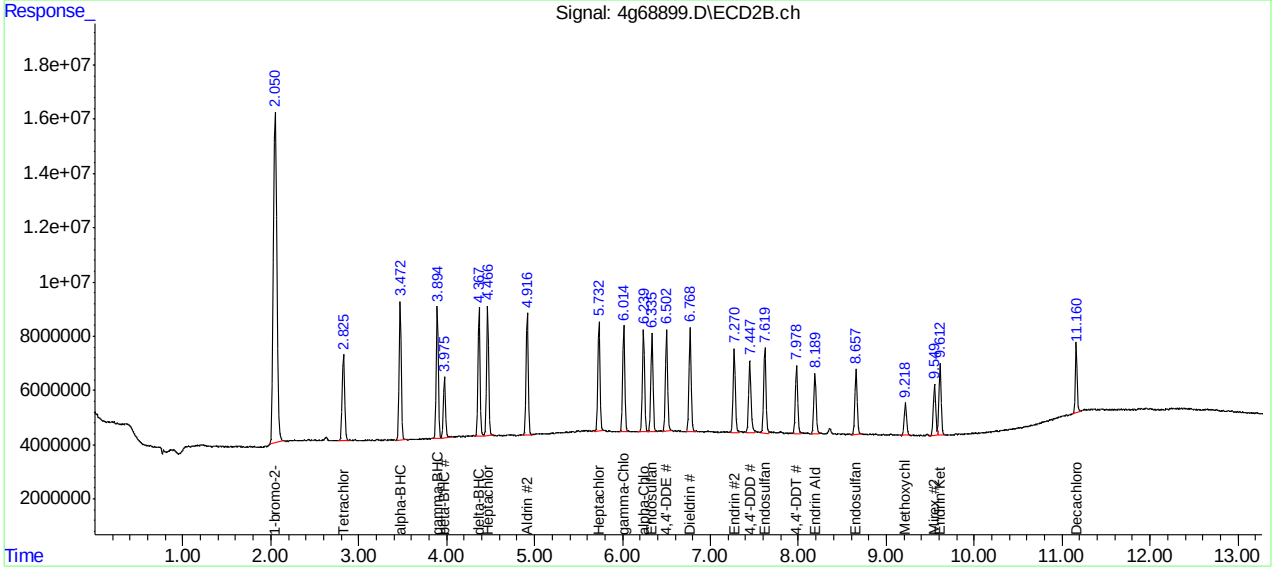
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68899.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:31 pm
Operator : josephr
Sample : ic1811-10
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68900.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:46 pm
Operator : josephr
Sample : icc1811-25
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.872	2.049	444.4E6	358.6E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430	2.826	191.9E6	161.6E6	24.951	24.776
	Spiked Amount 40.000 Range 30 - 150 Recovery = 62.38% 61.94%						
24) SA	Decachlor...	9.805	11.161	161.5E6	87084168	24.404	17.941 #
	Spiked Amount 40.000 Recovery = 61.01% 44.85%						
	Target Compounds						
3) A	alpha-BHC	2.903	3.471	261.7E6	232.0E6	24.934	25.581
4) MA	gamma-BHC	3.200	3.894	239.2E6	209.7E6	24.984	25.258
5) MA	Heptachlor	3.695	4.467	228.7E6	210.0E6	24.679	24.907
6) B	beta-BHC	3.277	3.975	110.1E6	93602726	24.602	24.693
7) B	delta-BHC	3.466	4.368	230.6E6	202.6E6	26.697	27.166
8) MB	Aldrin	4.035	4.915	216.7E6	196.1E6	24.917	25.337
9) B	Heptachlo...	4.765	5.733	200.8E6	176.3E6	24.929	25.088
10) B	gamma-Chl...	4.926	6.014	202.4E6	173.9E6	25.060	25.164
11) B	alpha-Chl...	5.099	6.240	197.4E6	168.0E6	25.794	24.588
12) A	Endosulfan I	5.286	6.335	197.0E6	162.9E6	25.657	25.100
13) B	4,4'-DDE	5.206	6.501	194.4E6	171.7E6	24.570	24.562
14) MA	Dieldrin	5.612	6.769	203.9E6	170.4E6	25.925	24.974
15) MA	Endrin	5.942	7.271	180.6E6	144.0E6	25.877	25.639
16) A	4,4'-DDD	6.058	7.447	165.1E6	130.2E6	26.250	24.221
17) B	Endosulfa...	6.271	7.619	185.3E6	141.1E6	26.046	22.594
18) MA	4,4'-DDT	6.478	7.979	162.0E6	122.2E6	24.949	22.291
19) B	Endrin Al...	6.915	8.189	147.8E6	110.4E6	25.922	23.484
20) B	Endosulfa...	7.614	8.657	159.8E6	113.9E6	25.259	21.991
21) A	Methoxychlor	7.271	9.218	87635218	59256003	23.813	19.347
22)	Mirex	7.415	9.549	147.3E6	90215629	25.363	20.355
23) B	Endrin Ke...	8.053	9.613	186.3E6	121.4E6	24.711	20.459

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

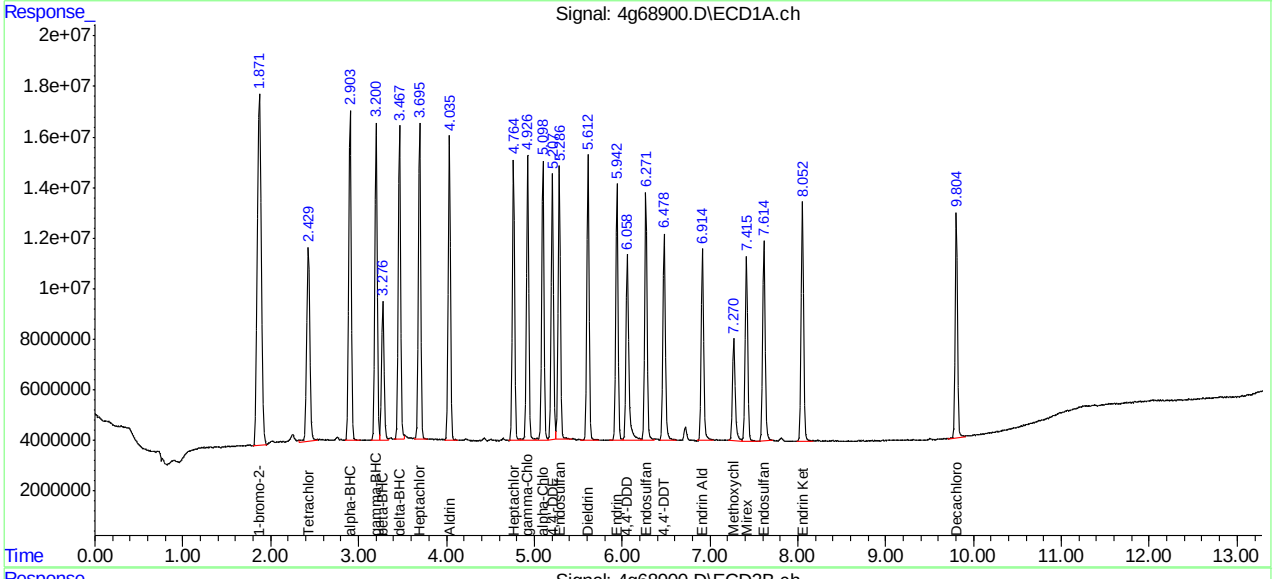
11.6.41 11

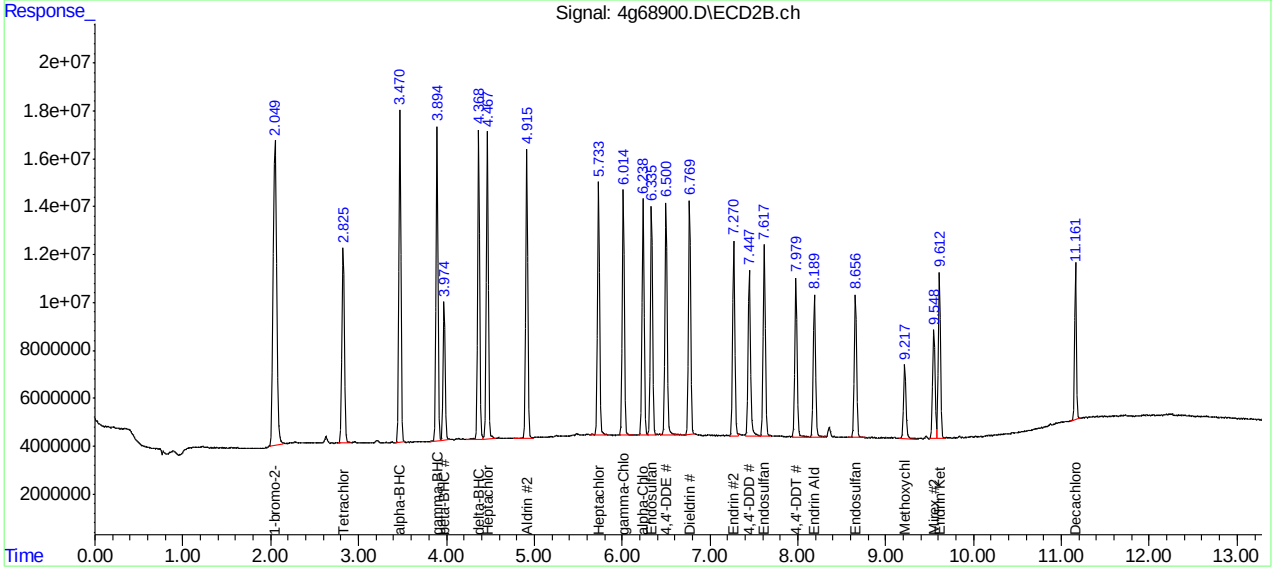
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68900.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 12:46 pm
Operator : josephr
Sample : icc1811-25
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68901.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:01 pm
Operator : josephr
Sample : ic1811-50
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:32:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.873	2.049	434.2E6	359.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430	2.825	373.9E6	324.9E6	49.755	49.727
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	124.39%	124.32%
24) SA	Decachlor...	9.806	11.160	316.2E6	175.4E6	48.916	36.068 #
	Spiked Amount 40.000			Recovery	=	122.29%	90.17%
	Target Compounds						
3) A	alpha-BHC	2.904	3.472	546.2E6	490.4E6	53.254	53.968
4) MA	gamma-BHC	3.201	3.894	499.1E6	441.6E6	53.352	53.067
5) MA	Heptachlor	3.696	4.466	474.2E6	433.7E6	52.358	51.339
6) B	beta-BHC	3.277	3.974	221.8E6	192.2E6	50.729	50.602
7) B	delta-BHC	3.467	4.367	488.7E6	423.9E6	57.898	56.715
8) MB	Aldrin	4.035	4.915	447.2E6	407.2E6	52.631	52.508
9) B	Heptachlo...	4.765	5.732	407.2E6	361.9E6	51.735	51.387
10) B	gamma-Chl...	4.926	6.014	407.3E6	358.7E6	51.620	51.801
11) B	alpha-Chl...	5.099	6.239	396.6E6	342.4E6	53.025	50.024
12) A	Endosulfan I	5.286	6.335	395.5E6	333.3E6	52.726	51.247
13) B	4,4'-DDE	5.206	6.501	396.1E6	350.3E6	51.246	50.011
14) MA	Dieldrin	5.613	6.769	419.0E6	353.2E6	54.532	51.660
15) MA	Endrin	5.942	7.271	368.9E6	292.0E6	54.118	51.885
16) A	4,4'-DDD	6.059	7.448	334.6E6	266.1E6	54.451	49.415
17) B	Endosulfa...	6.272	7.619	372.1E6	290.9E6	53.534	46.491
18) MA	4,4'-DDT	6.479	7.979	333.3E6	252.4E6	52.553	45.945
19) B	Endrin Al...	6.915	8.188	296.9E6	219.3E6	53.291	46.531
20) B	Endosulfa...	7.614	8.656	320.8E6	226.9E6	51.883	43.714
21) A	Methoxychlor	7.271	9.217	176.5E6	118.2E6	49.096	38.501
22)	Mirex	7.416	9.549	286.2E6	177.9E6	50.432	40.050
23) B	Endrin Ke...	8.052	9.612	374.8E6	247.4E6	50.882	41.604

SemiQuant Compounds - Not Calibrated on this Instrument

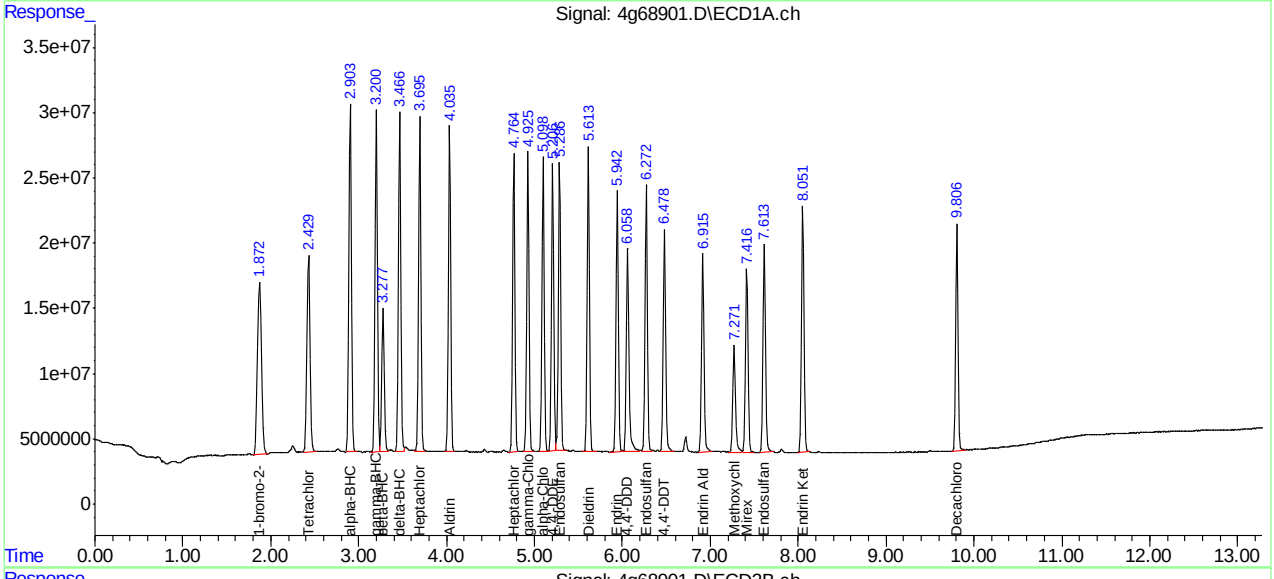
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

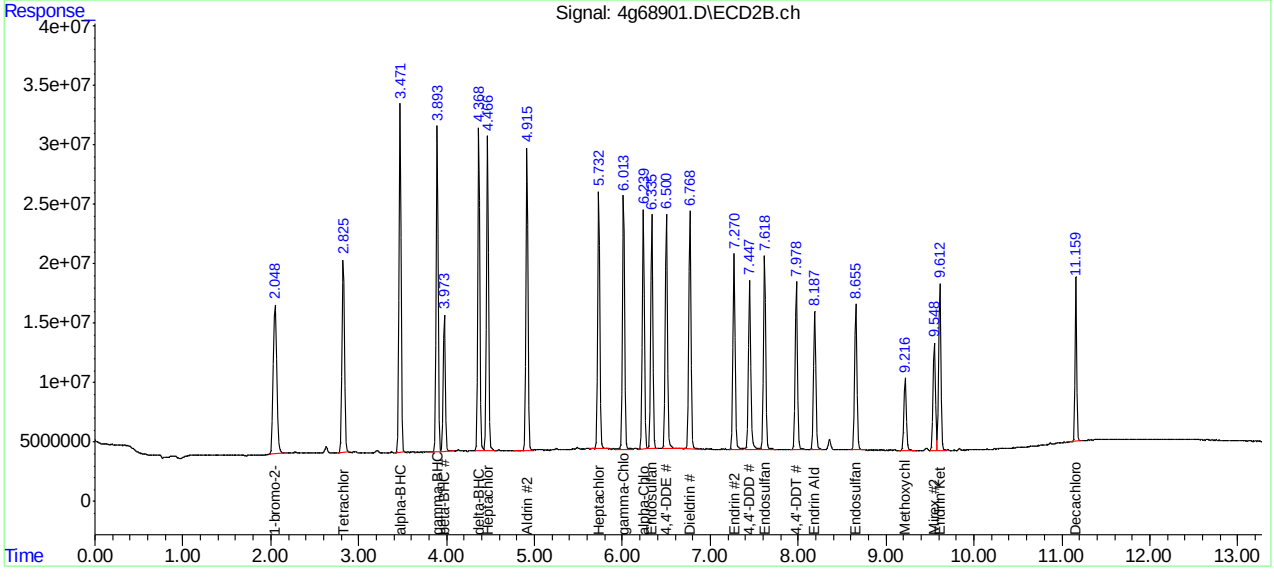
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68901.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:01 pm
Operator : josephr
Sample : ic1811-50
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:35 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 15:32:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:16 pm
Operator : josephr
Sample : ic1811-75
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.873	2.047	431.3E6	353.1E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430	2.825	552.2E6	484.8E6	73.982	75.488
	Spiked Amount 40.000 Range 30 - 150 Recovery = 184.96%# 188.72%#						
24) SA	Decachlor...	9.806	11.160	455.8E6	253.8E6	70.977	53.097 #
	Spiked Amount 40.000 Recovery = 177.44% 132.74%						
	Target Compounds						
3) A	alpha-BHC	2.904	3.471	821.9E6	739.4E6	80.683	82.792
4) MA	gamma-BHC	3.201	3.893	744.4E6	661.8E6	80.117	80.926
5) MA	Heptachlor	3.696	4.466	705.5E6	648.5E6	78.439	78.094
6) B	beta-BHC	3.277	3.974	322.4E6	283.0E6	74.236	75.799
7) B	delta-BHC	3.466	4.367	730.5E6	635.1E6	87.133	86.455
8) MB	Aldrin	4.036	4.915	665.7E6	610.8E6	78.888	80.136
9) B	Heptachlo...	4.766	5.732	603.1E6	536.1E6	77.147	77.464
10) B	gamma-Chl...	4.927	6.014	607.0E6	533.4E6	77.456	78.367
11) B	alpha-Chl...	5.099	6.239	591.7E6	507.9E6	79.662	75.487
12) A	Endosulfan I	5.287	6.335	591.7E6	492.9E6	79.422	77.114
13) B	4,4'-DDE	5.207	6.500	594.1E6	514.4E6	77.381	74.720
14) MA	Dieldrin	5.614	6.768	620.7E6	522.6E6	81.331	77.771
15) MA	Endrin	5.943	7.271	545.5E6	430.9E6	80.570	77.902
16) A	4,4'-DDD	6.060	7.447	496.1E6	389.6E6	81.274	73.619
17) B	Endosulfa...	6.273	7.618	551.6E6	421.0E6	79.907	68.441
18) MA	4,4'-DDT	6.480	7.979	510.9E6	381.5E6	81.103	70.666
19) B	Endrin Al...	6.916	8.189	430.6E6	317.9E6	77.834	68.631
20) B	Endosulfa...	7.615	8.656	471.0E6	332.2E6	76.692	65.109
21) A	Methoxychlor	7.271	9.218	259.7E6	174.8E6	72.716	57.965
22)	Mirex	7.417	9.549	417.4E6	257.9E6	74.059	59.087
23) B	Endrin Ke...	8.053	9.612	548.8E6	359.2E6	75.001	61.468

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.43 11

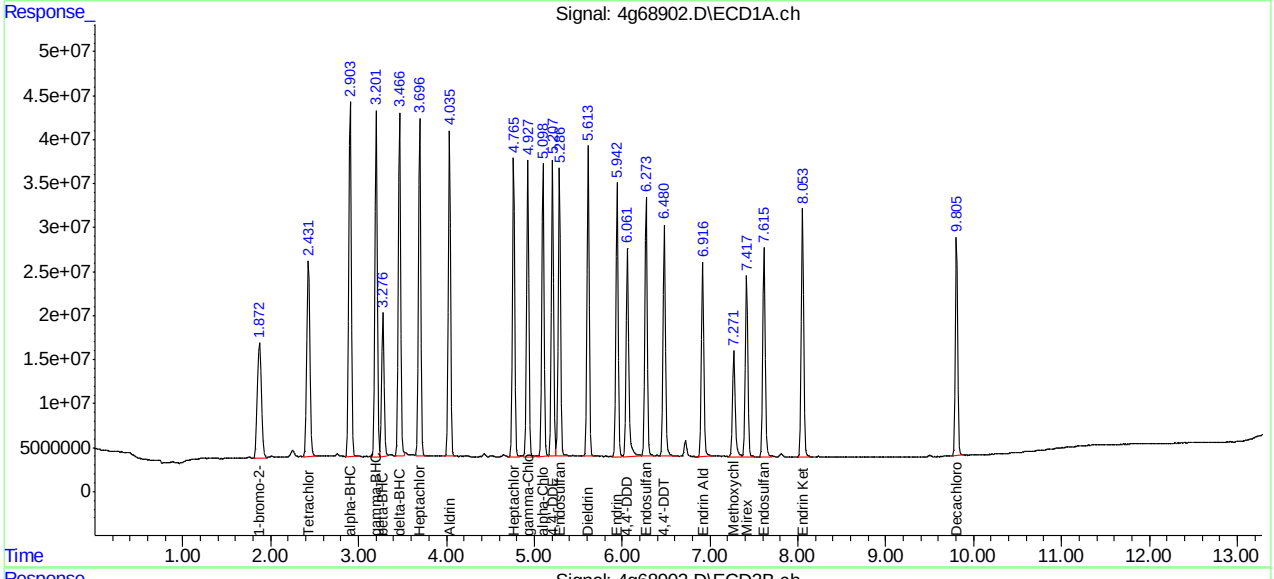
SGS ACCUTEST JC21229

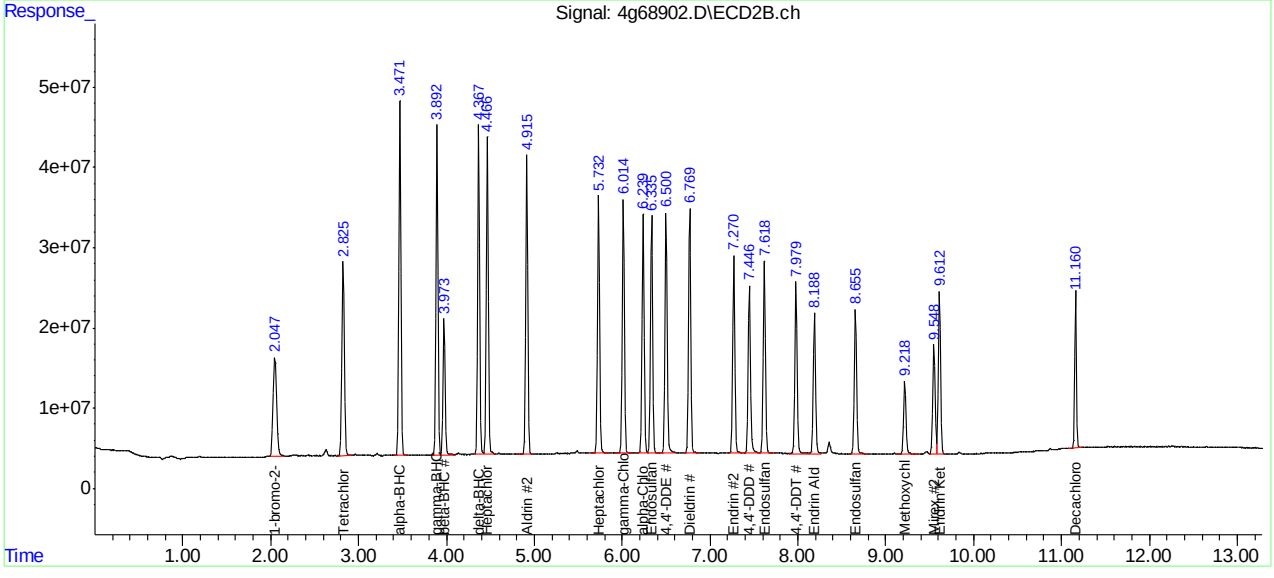
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:16 pm
Operator : josephr
Sample : ic1811-75
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:31 pm
Operator : josephr
Sample : ic1811-100
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.875	2.051	436.1E6	356.3E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.432	2.827	742.8E6	653.5E6	98.423	100.858
	Spiked Amount 40.000	Range	30 - 150	Recovery	=	246.06%#	252.15%#
24) SA	Decachlor...	9.805	11.159	609.6E6	345.9E6	93.894	71.720m
	Spiked Amount 40.000			Recovery	=	234.74%	179.30%
	Target Compounds						
3) A	alpha-BHC	2.905	3.473	1115.9E6	1007.4E6	108.337	111.792
4) MA	gamma-BHC	3.202	3.895	1007.8E6	900.9E6	107.271	109.175
5) MA	Heptachlor	3.696	4.467	956.3E6	883.2E6	105.145	105.414
6) B	beta-BHC	3.278	3.975	431.2E6	380.0E6	98.196	100.874
7) B	delta-BHC	3.467	4.368	993.6E6	873.0E6	117.216	117.782
8) MB	Aldrin	4.035	4.916	904.0E6	831.1E6	105.950	108.061
9) B	Heptachlo...	4.766	5.732	808.6E6	723.3E6	102.302	103.574
10) B	gamma-Chl...	4.927	6.015	812.8E6	722.1E6	102.585	105.147
11) B	alpha-Chl...	5.099	6.240	792.3E6	685.6E6	105.493	101.003
12) A	Endosulfan I	5.287	6.335	792.2E6	663.7E6	105.163	102.907
13) B	4,4'-DDE	5.207	6.501	797.8E6	698.5E6	102.773	100.564
14) MA	Dieldrin	5.614	6.769	837.8E6	709.9E6	108.583	104.705
15) MA	Endrin	5.942	7.271	736.6E6	588.3E6	107.599	105.411
16) A	4,4'-DDD	6.059	7.447	668.0E6	533.3E6	108.234	99.877
17) B	Endosulfa...	6.273	7.619	739.0E6	575.5E6	105.882	92.730
18) MA	4,4'-DDT	6.479	7.979	689.9E6	519.9E6	108.307	95.445
19) B	Endrin Al...	6.915	8.189	576.0E6	428.5E6	102.972	91.699
20) B	Endosulfa...	7.615	8.656	627.3E6	444.2E6	101.027	86.272
21) A	Methoxychlor	7.271	9.217	343.3E6	233.5E6	95.065	76.733
22)	Mirex	7.415	9.550	549.7E6	343.2E6	96.455	77.934
23) B	Endrin Ke...	8.052	9.612	735.7E6	486.1E6	99.450	82.447

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

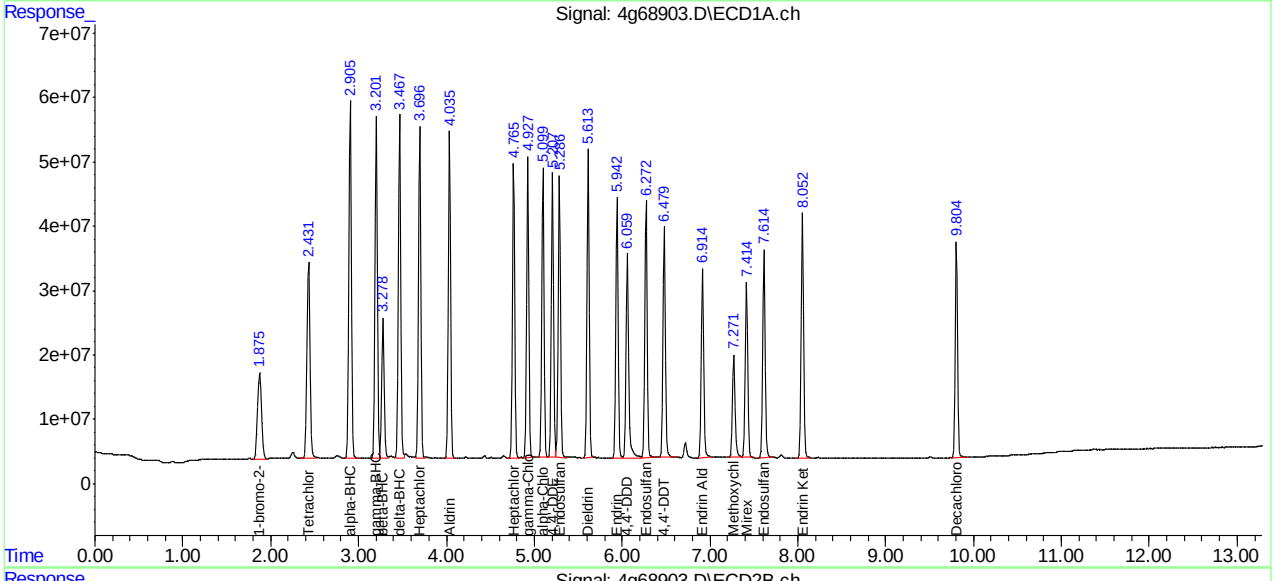
11.6.44 11

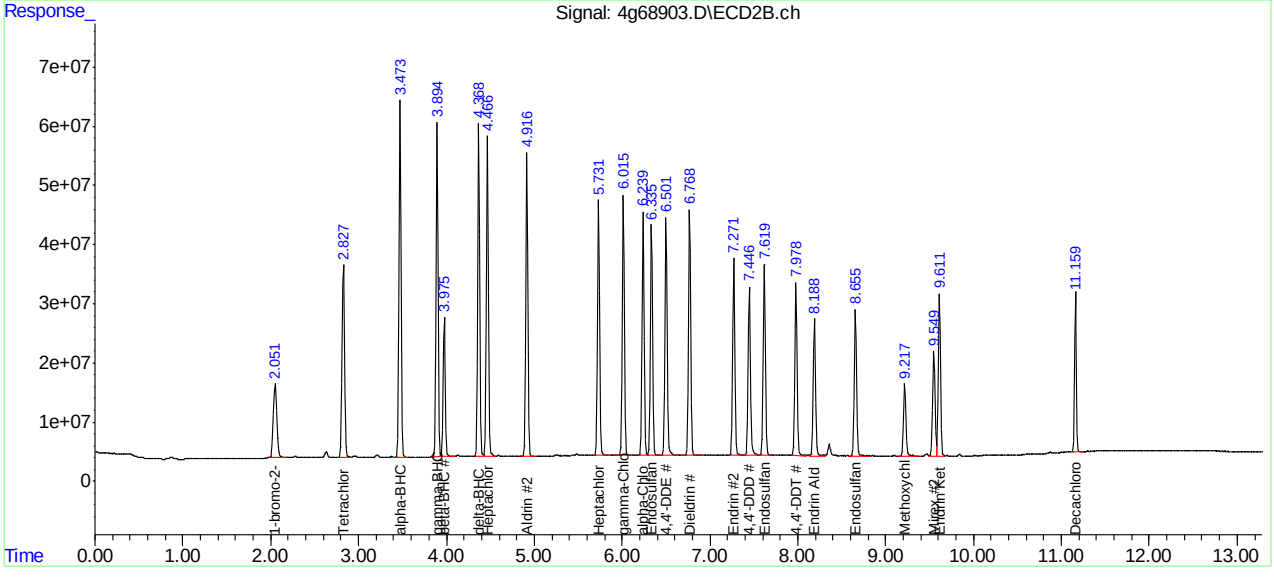
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:31 pm
Operator : josephr
Sample : ic1811-100
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1811-IC1811	**Method:**	SW846 8081B
Lab FileID:	4G68903.D	**Analyst approved:**	06/06/16 16:55 Joseph Ravino
Injection Time:	06/06/16 13:31	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

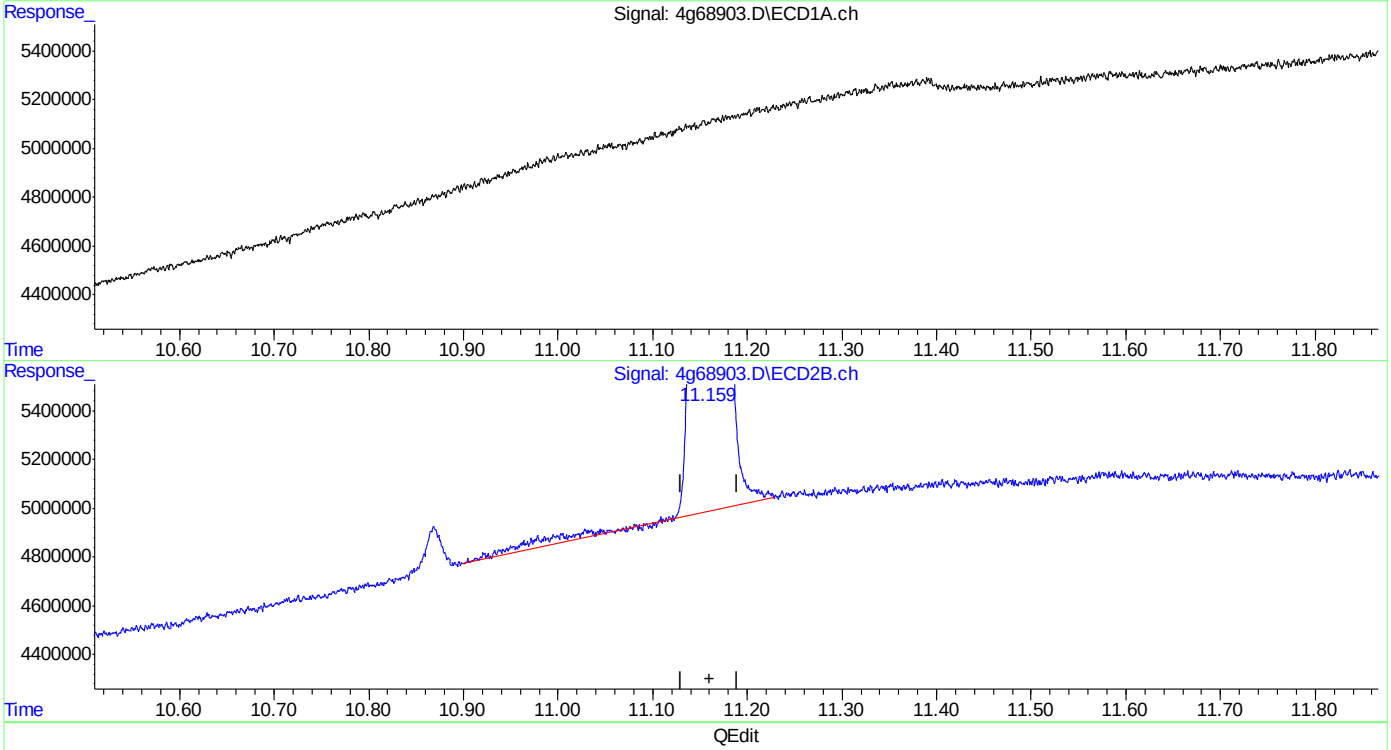
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	11.16	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:31 pm
Operator : josephr
Sample : ic1811-100
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.805min 93.894 PPB
response 609608678

(24) Decachlorobiphenyl #2 (SA)
11.160min 71.957 PPB
response 347076038

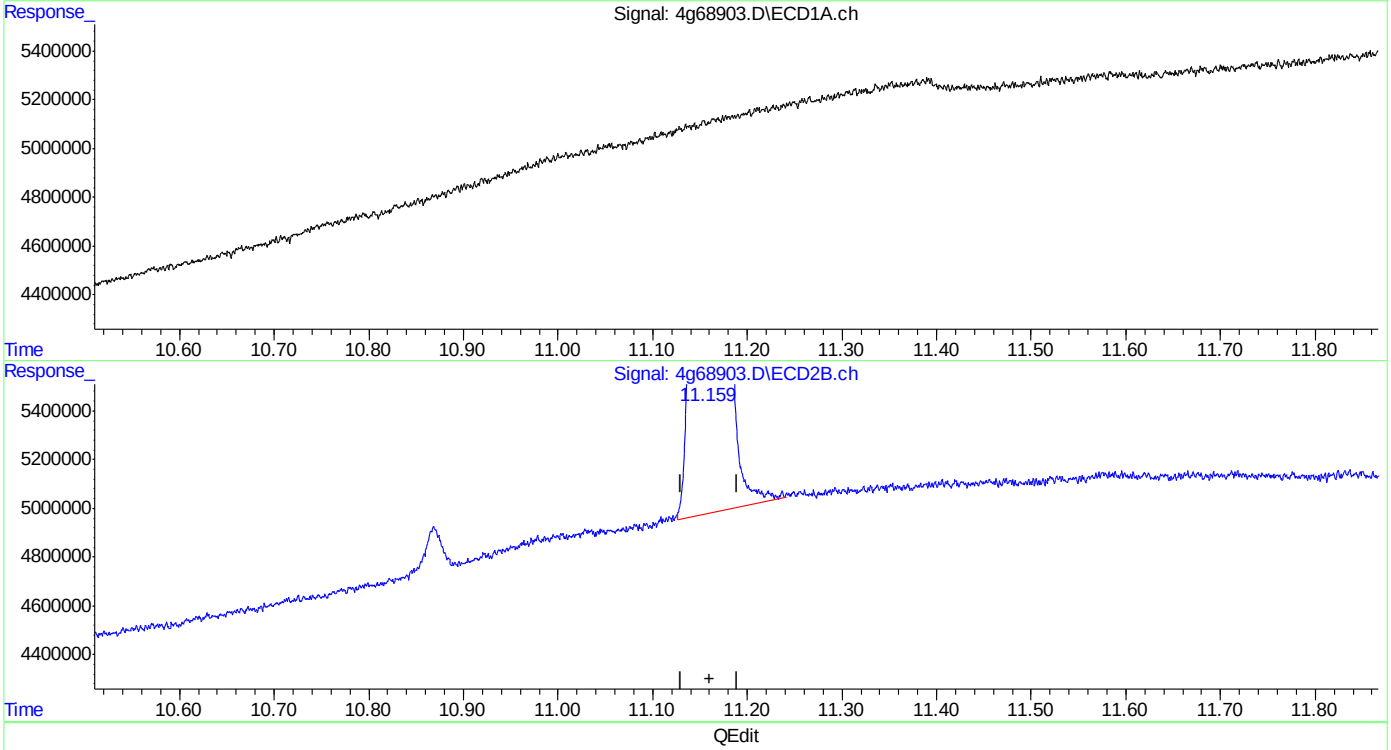
(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:10:37 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:31 pm
Operator : josephr
Sample : ic1811-100
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:07:33 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.805min 93.894 PPB
response 609608678

(24) Decachlorobiphenyl #2 (SA)
11.159min 71.720 PPB m
response 345935751

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:10:43 2016 RPT1

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:46 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:39:53 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
31) I	1-bromo-2...	1.873	2.049	443.9E6	357.6E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
32)	Chlordane...	3.607	4.271	137.9E6	122.7E6	500.000	500.000
33)	Chlordane...	4.183	5.105	166.6E6	135.0E6	531.432	500.000
34)	Chlordane...	4.926	6.014	561.9E6	463.1E6	500.000	500.000
35)	Chlordane...	5.086	6.239	865.8E6	753.0E6	502.385	1044.586m#
36)	Chlordane...	6.166	7.698	134.4E6	118.7E6	498.135	500.000
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

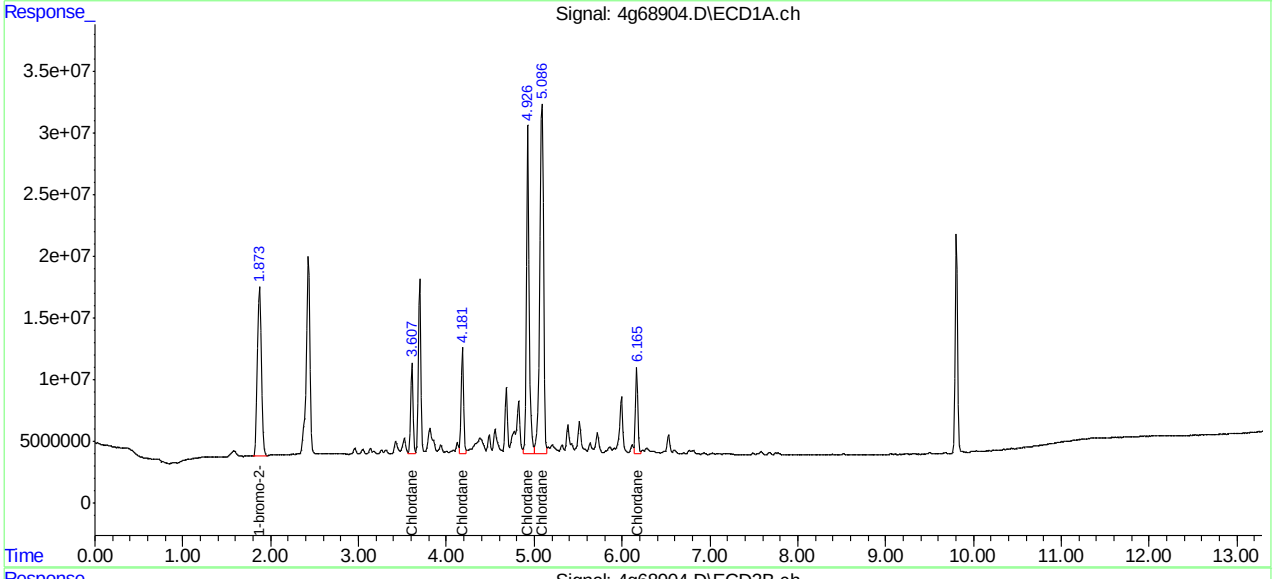
11.6.45
11

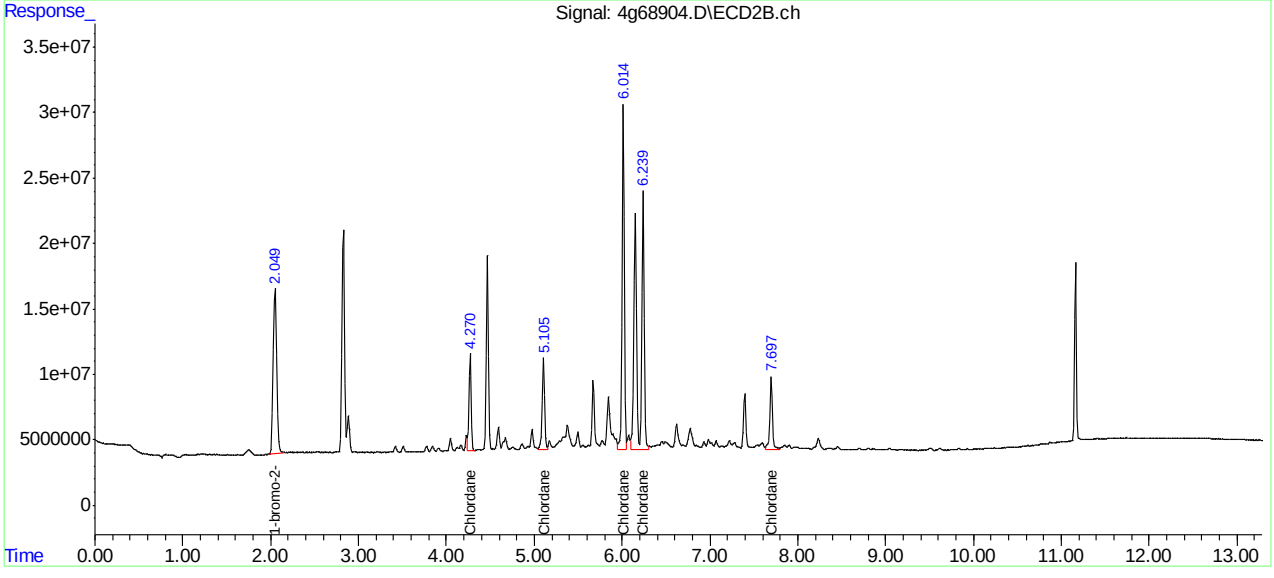
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:46 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:56:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:39:53 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1811-IC1811	**Method:**	SW846 8081B
Lab FileID:	4G68904.D	**Analyst approved:**	06/06/16 16:55 Joseph Ravino
Injection Time:	06/06/16 13:46	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

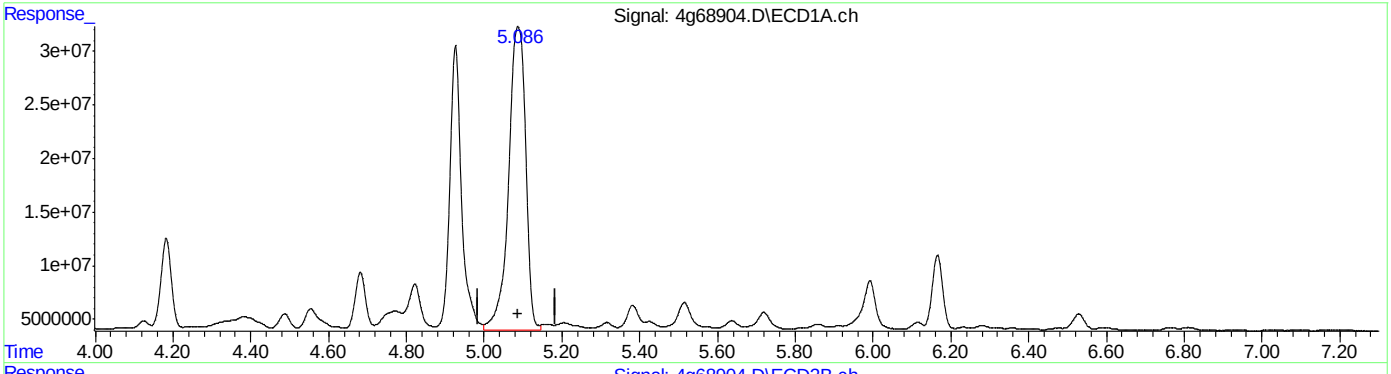
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.24	Split peak

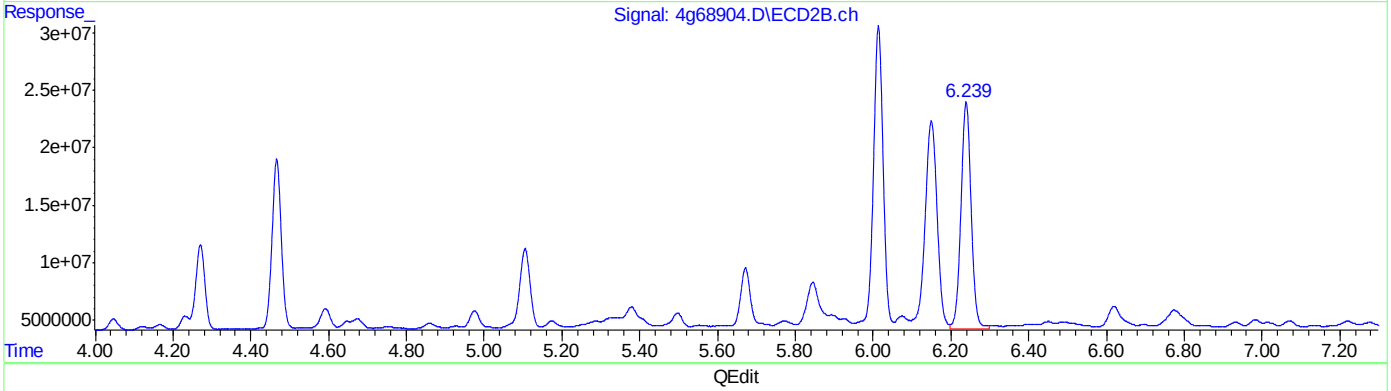
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:46 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:39:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:39:53 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.086min 502.385 PPB
response 865802677

(35) Chlordane {D} #2
6.239min 500.000 PPB
response 360406874

(+) = Expected Retention Time
4PST1811.M Mon Jun 06 16:40:23 2016 RPT1

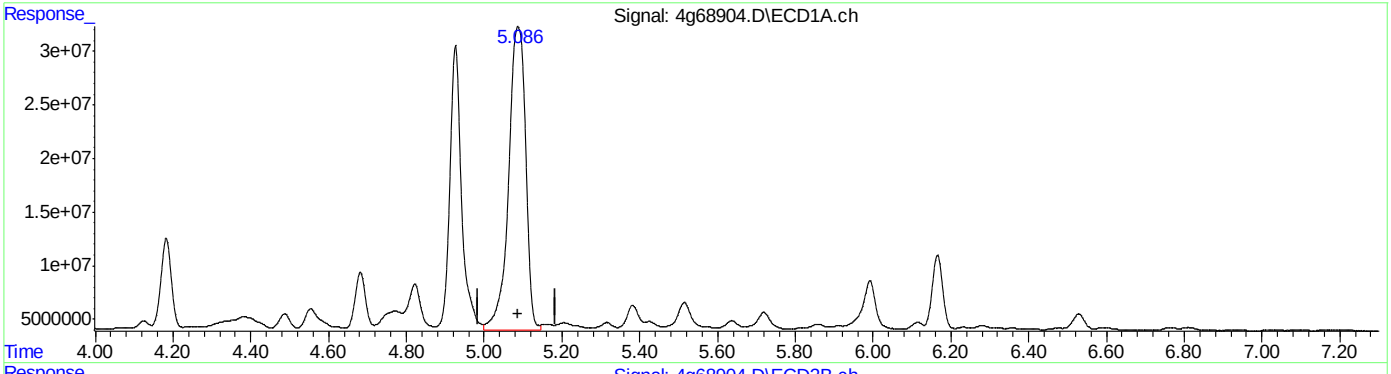
SGS ACCUTEST JC21229

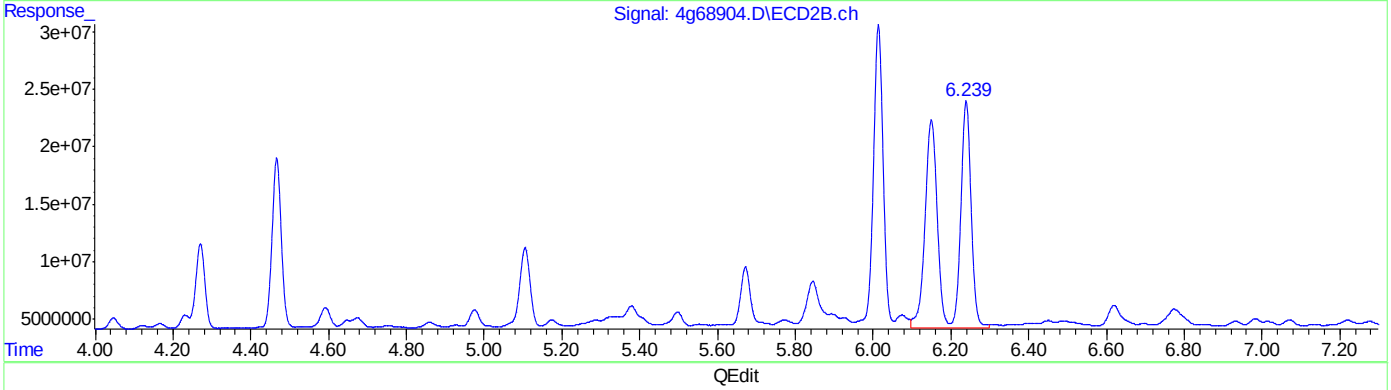
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 1:46 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:39:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:39:53 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.086min 502.385 PPB
response 865802677

(35) Chlordane {D} #2
6.239min 1044.586 PPB m
response 752951742

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68905.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:01 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:57:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
25) I	1-bromo-2...	1.874	2.051	439.9E6	359.8E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
26) L8	Toxaphene{A}	5.621	6.733	74608486	84733825	500.000	745.644m#
27) L8	Toxaphene{B}	6.255	7.589	189.7E6	90920337	500.000	502.302
28) L8	Toxaphene{C}	6.437	7.751	150.8E6	161.7E6	500.000	500.000
29) L8	Toxaphene{D}	6.774	8.187	117.1E6	97227175	475.714	500.000
30) L8	Toxaphene{E}	7.436	9.087	131.3E6	73697903	500.000	500.000
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

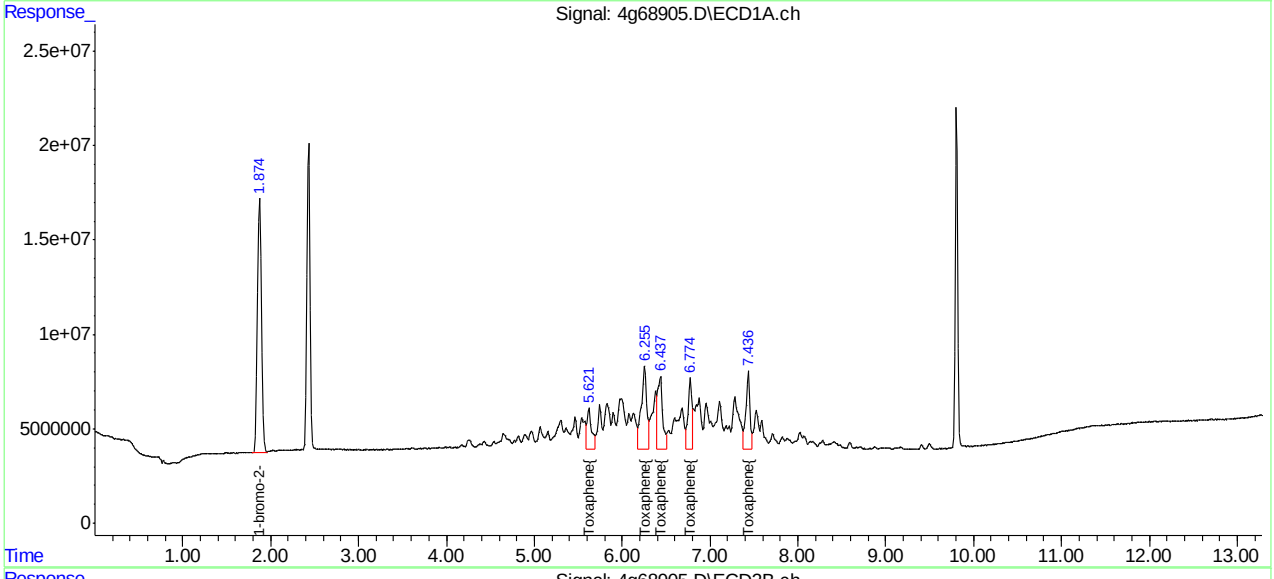
11.6.46 11

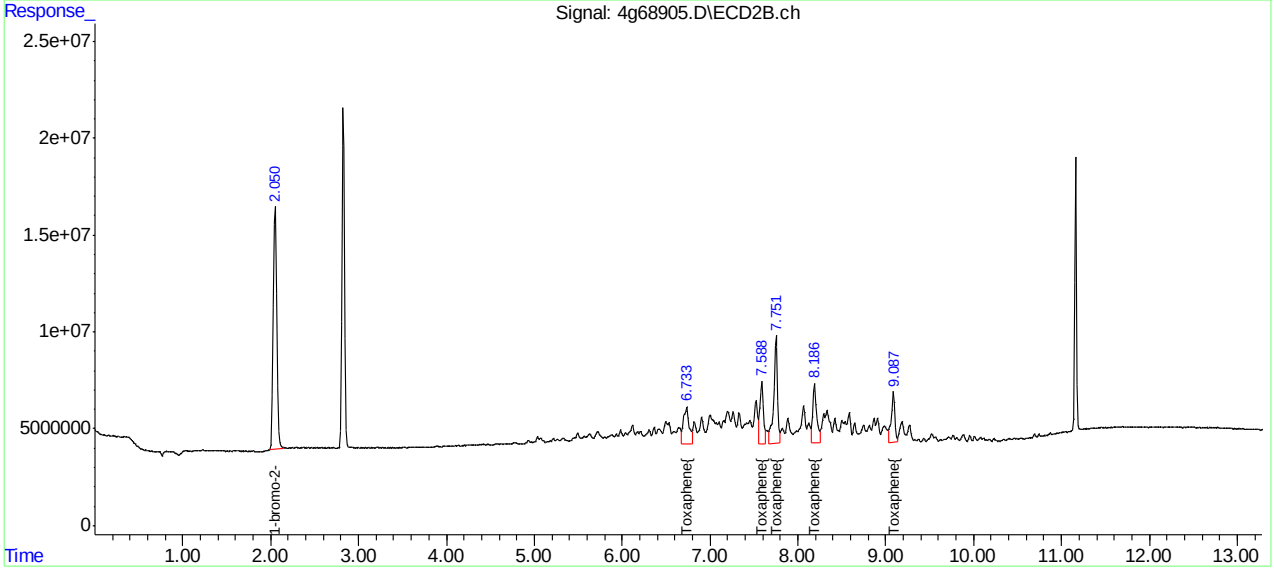
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68905.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:01 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:57:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1811-IC1811	**Method:**	SW846 8081B
Lab FileID:	4G68905.D	**Analyst approved:**	06/06/16 16:55 Joseph Ravino
Injection Time:	06/06/16 14:01	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

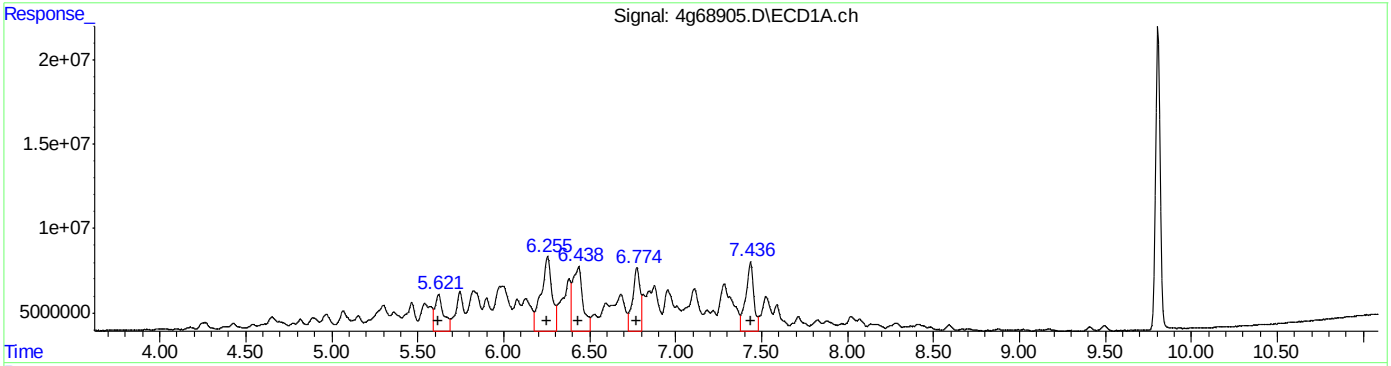
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-A		2	6.73	Split peak

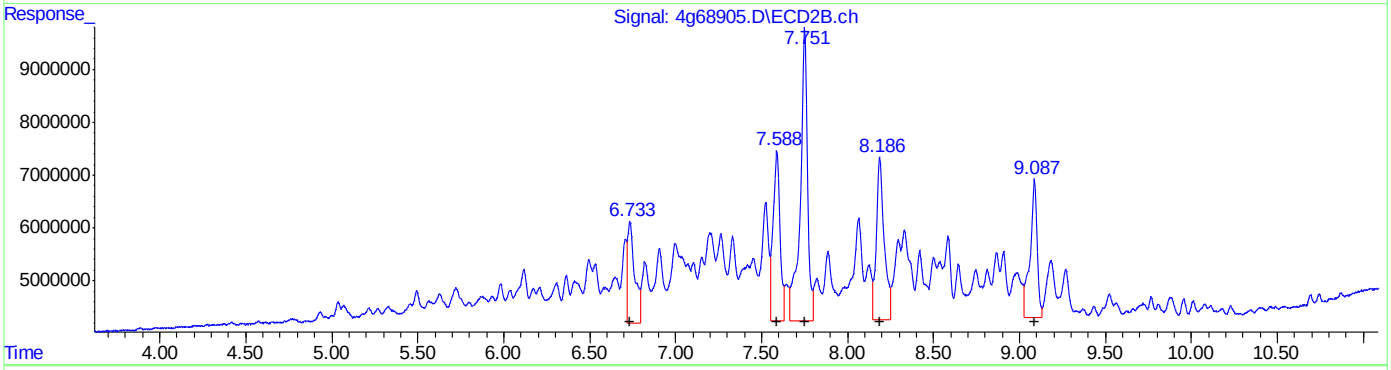
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68905.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:01 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:43:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.62	74608486	500.00
6.25	189740481	500.00
6.44	150784626	500.00
6.77	117129239	475.71
7.44	131253300	500.00

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.73	56819217	500.00
7.59	90920337	502.30
7.75	161694416	500.00
8.19	97227175	500.00
9.09	73697903	500.00

(+) = Expected Retention Time

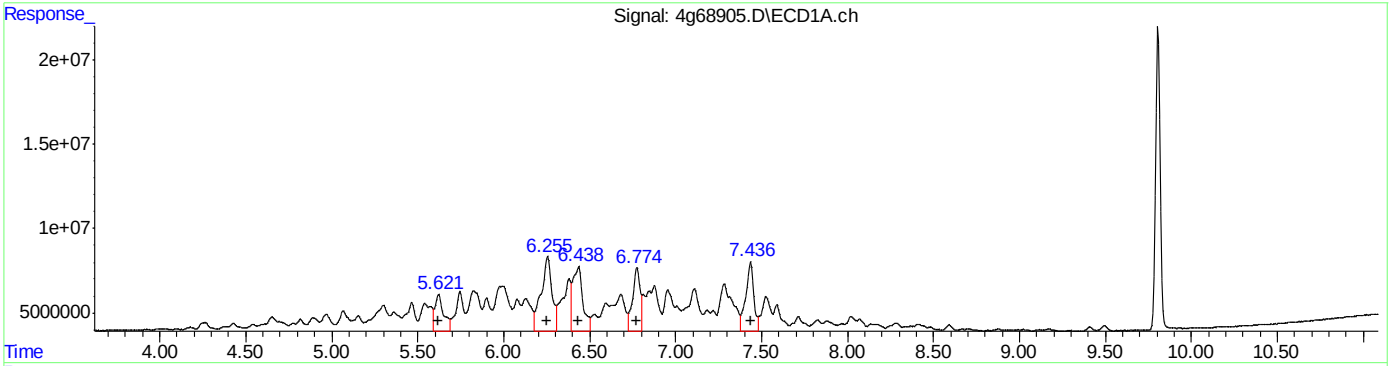
SGS ACCUTEST JC21229

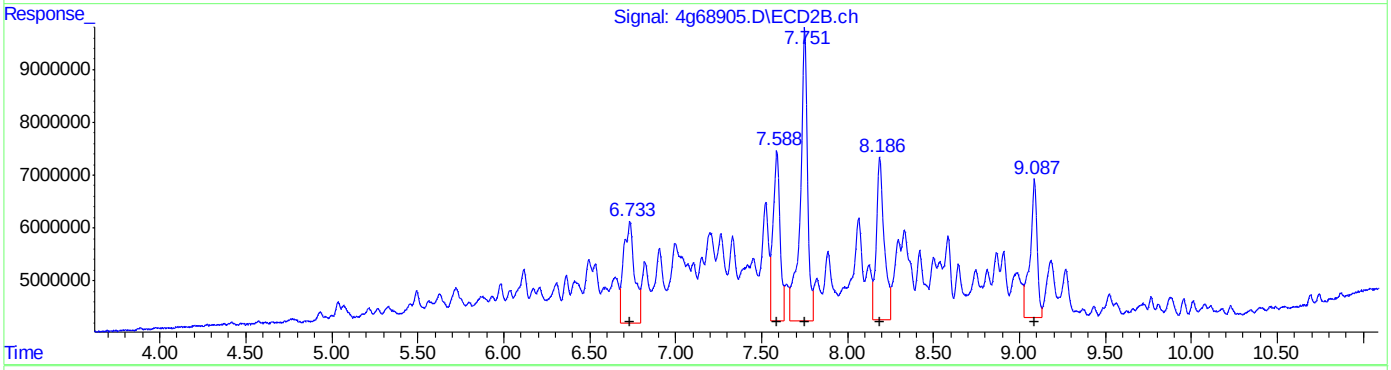
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68905.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:01 pm
Operator : josephr
Sample : ic1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 16:43:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:43:15 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.62	74608486	500.00
6.25	189740481	500.00
6.44	150784626	500.00
6.77	117129239	475.71
7.44	131253300	500.00

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.73	84733825	745.64
7.59	90920337	502.30
7.75	161694416	500.00
8.19	97227175	500.00
9.09	73697903	500.00

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:16 pm
Operator : josephr
Sample : icv1811-25
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:12:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.873	2.049	434.6E6	359.2E6	50.000	50.000
25) I	1-bromo-2...	1.873	2.049	434.6E6	359.2E6	50.000	50.000
31) I	1-bromo-2...	1.873	2.049	434.6E6	359.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430	2.825	178.5E6	154.3E6	23.650	23.521
Spiked Amount		40.000 Range	30 - 150	Recovery	=	59.12%	58.80%
24) SA	Decachlor...	9.805	11.160	157.2E6	86234036	24.058	24.114
Spiked Amount		40.000		Recovery	=	60.15%	60.28%
	Target Compounds						
3) A	alpha-BHC	2.903	3.471	238.7E6	212.2E6	22.599	22.819
4) MA	gamma-BHC	3.201	3.893	221.2E6	193.1E6	22.970	22.261
5) MA	Heptachlor	3.696	4.466	214.2E6	195.2E6	22.872	23.039
6) B	beta-BHC	3.277	3.974	99891201	86297299	22.394	21.748
7) B	delta-BHC	3.466	4.367	223.1E6	192.8E6	24.020	23.992
8) MB	Aldrin	4.034	4.915	198.7E6	180.3E6	22.571	21.808
9) B	Heptachlo...	4.765	5.732	187.7E6	163.7E6	22.775	23.238
10) B	gamma-Chl...	4.926	6.014	188.7E6	163.7E6	22.635	23.084
11) B	alpha-Chl...	5.098	6.238	182.0E6	154.9E6	22.457	22.409
12) A	Endosulfan I	5.286	6.335	178.1E6	146.9E6	22.544	22.162
13) B	4,4'-DDE	5.207	6.500	179.2E6	157.4E6	22.823	22.489
14) MA	Dieldrin	5.613	6.768	190.3E6	160.0E6	22.832	22.918
15) MA	Endrin	5.942	7.271	173.6E6	137.2E6	23.790	23.223
16) A	4,4'-DDD	6.060	7.448	149.0E6	119.4E6	22.672	22.310
17) B	Endosulfa...	6.273	7.619	166.1E6	132.6E6	22.347	22.323
18) MA	4,4'-DDT	6.479	7.980	153.3E6	118.3E6	23.371	23.442
19) B	Endrin Al...	6.916	8.189	135.4E6	100.1E6	22.858	22.490
20) B	Endosulfa...	7.615	8.656	146.1E6	105.6E6	22.309	22.787
21) A	Methoxychlor	7.273	9.219	83663641	55288813	23.563	23.277
23) B	Endrin Ke...	8.052	9.612	168.6E6	109.8E6	22.245	22.207

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.47 11

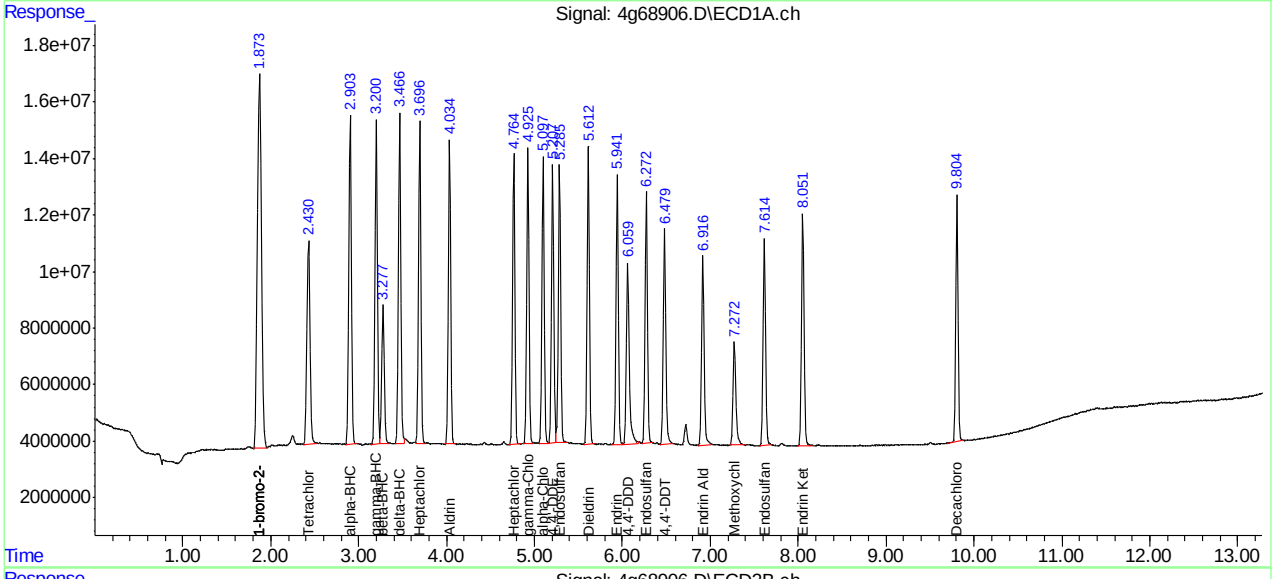
SGS ACCUTEST JC21229

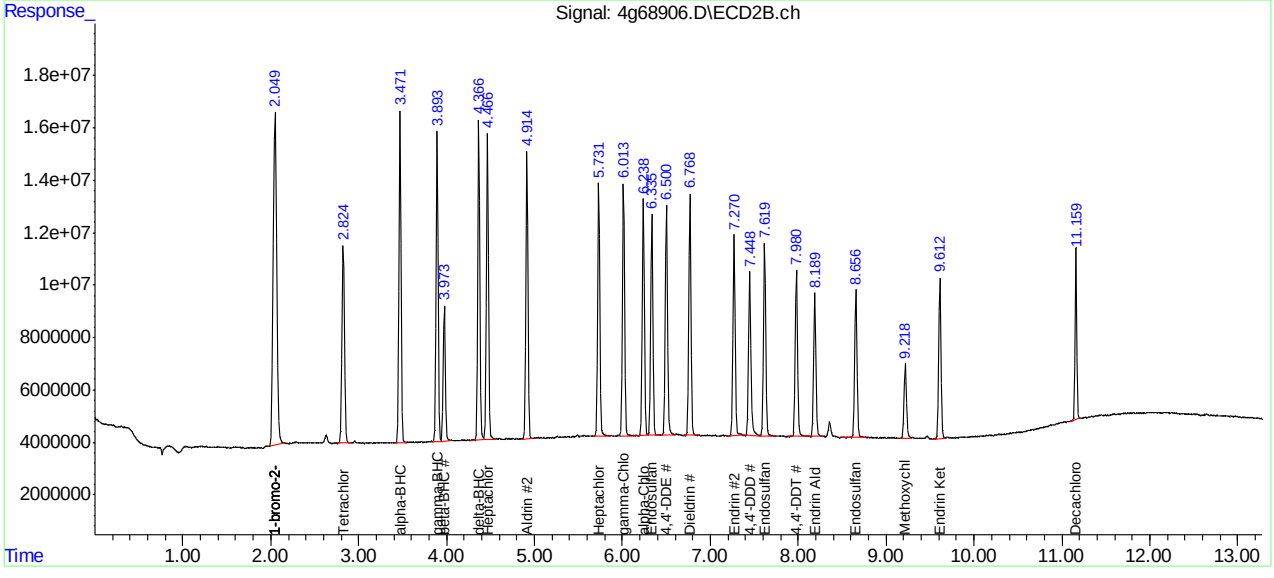
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:16 pm
Operator : josephr
Sample : icv1811-25
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:12:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:31 pm
Operator : josephr
Sample : icv1811-25
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:12:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.875	2.051	433.5E6	352.1E6	50.000	50.000
25) I	1-bromo-2...	1.875	2.051	433.5E6	352.1E6	50.000	50.000
31) I	1-bromo-2...	1.875	2.051	433.5E6	352.1E6	50.000	50.000
	System Monitoring Compounds						
	Target Compounds						
22)	Mirex	7.417	9.550	140.9E6	88828944	23.502	24.889
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

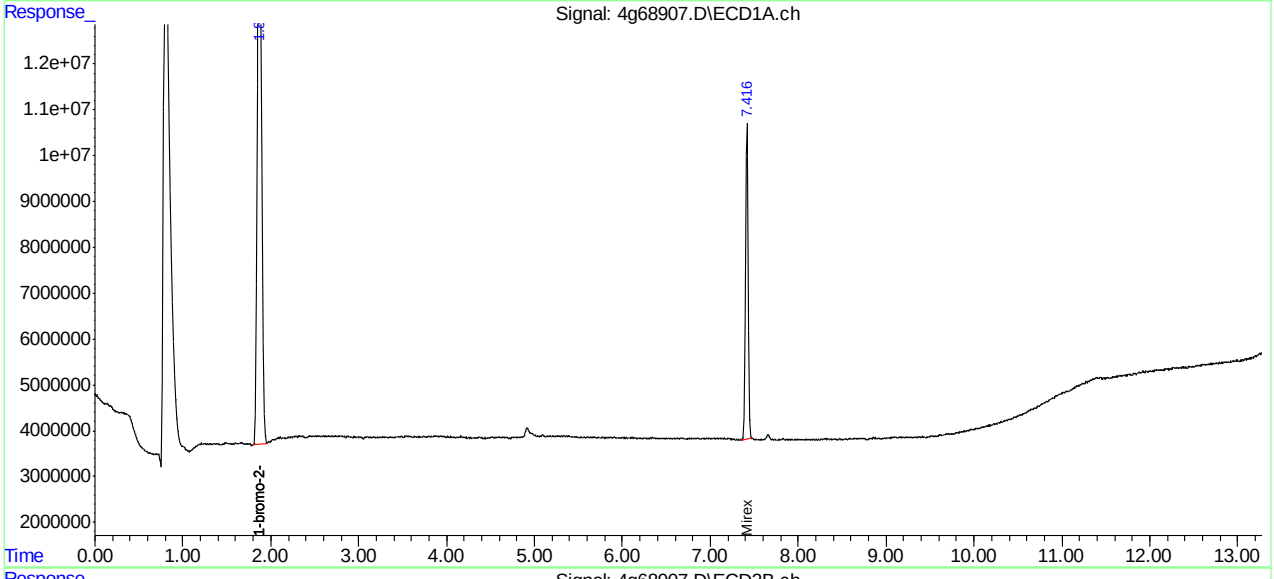
SGS ACCUTEST JC21229

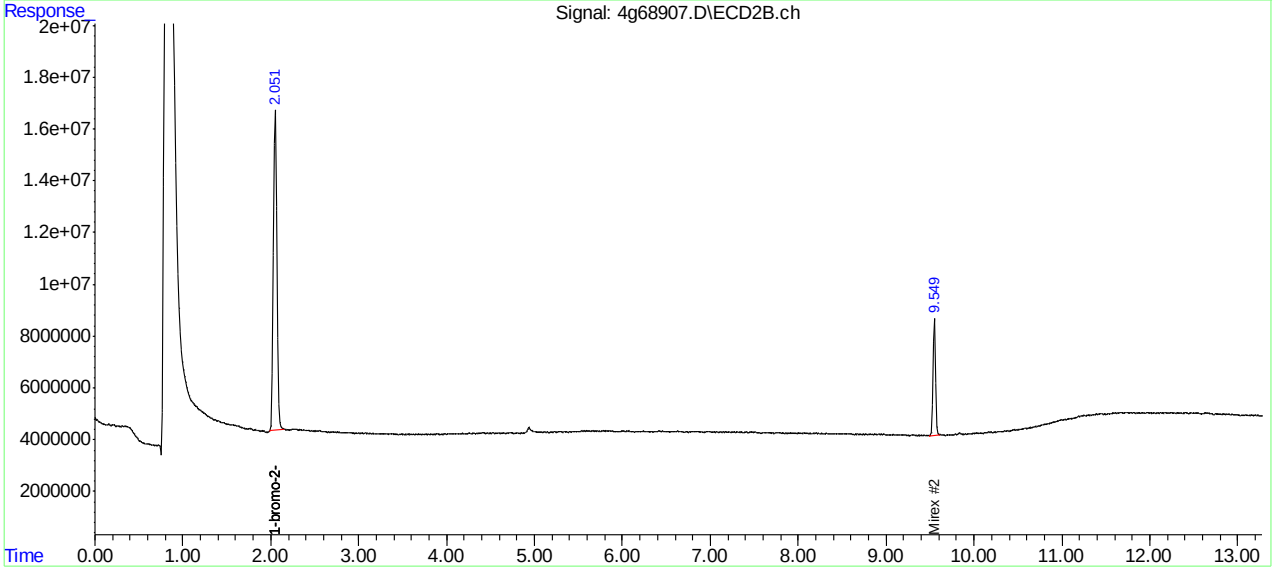
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:31 pm
Operator : josephr
Sample : icv1811-25
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:12:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:46 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:08:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.874	2.050	430.2E6	361.0E6	50.000	50.000
25) I	1-bromo-2...	1.874	2.050	430.2E6	361.0E6	50.000	50.000
31) I	1-bromo-2...	1.874	2.050	430.2E6	361.0E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.431	2.827	383.9E6	302.2E6	51.398	45.828
Spiked Amount		40.000	Range	30 - 150	Recovery	= 128.50%	114.57%
24) SA	Decachlor...	9.806	11.160	306.6E6	173.2E6	47.403	48.187
Spiked Amount		40.000			Recovery	= 118.51%	120.47%
	Target Compounds						
32)	Chlordane...	3.608	4.271	153.0E6	143.0E6	572.261	577.218
33)	Chlordane...	4.182	5.106	161.4E6	141.7E6	499.782	519.701
34)	Chlordane...	4.925	6.014	525.3E6	433.8E6	482.349	463.849
35)	Chlordane...	5.092	6.239	822.7E6	708.5E6	490.230	465.953m
36)	Chlordane...	6.166	7.698	129.7E6	110.1E6	497.829	459.486

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.49 11

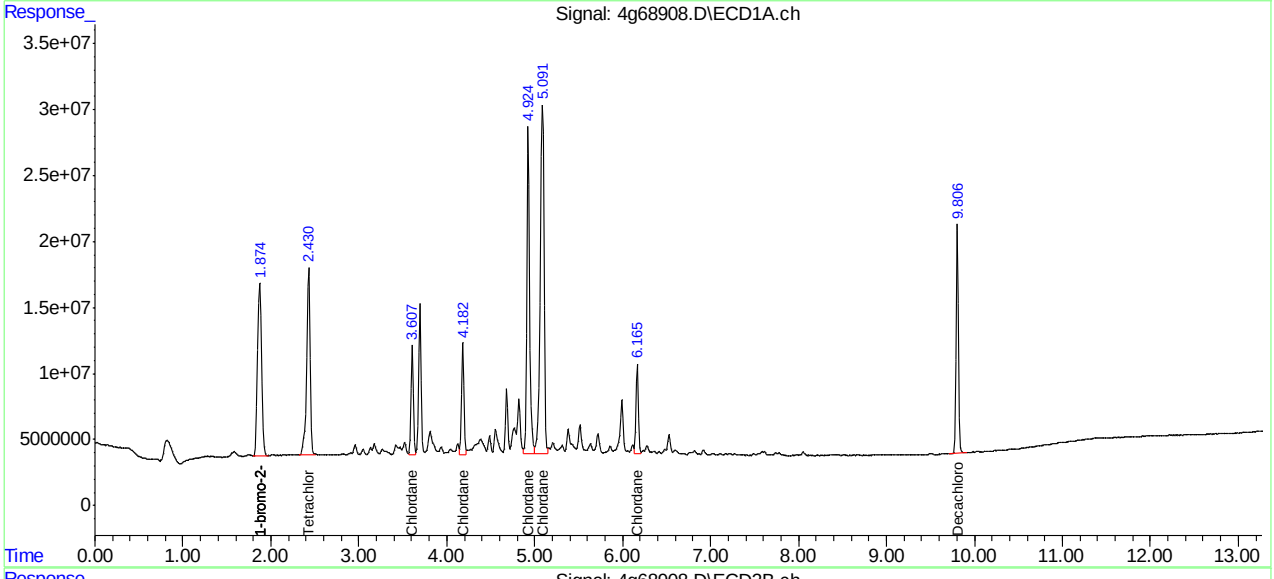
SGS ACCUTEST JC21229

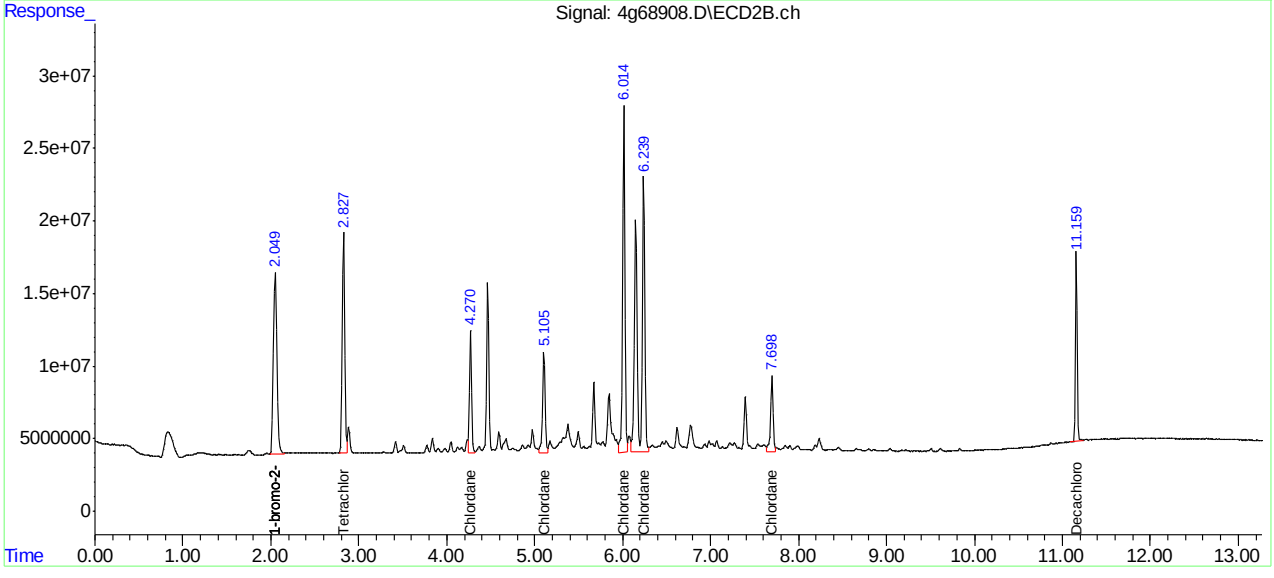
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:46 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:08:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST JC21229

Manual Integration Approval Summary

Sample Number:	G4G1811-ICV1811	**Method:**	SW846 8081B
Lab FileID:	4G68908.D	**Analyst approved:**	06/06/16 17:19 Joseph Ravino
Injection Time:	06/06/16 14:46	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

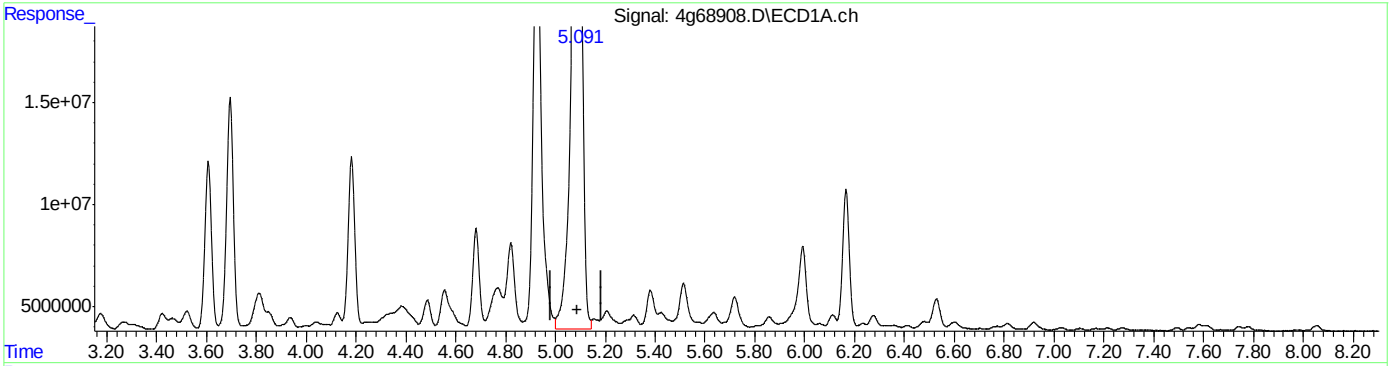
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.24	Split peak

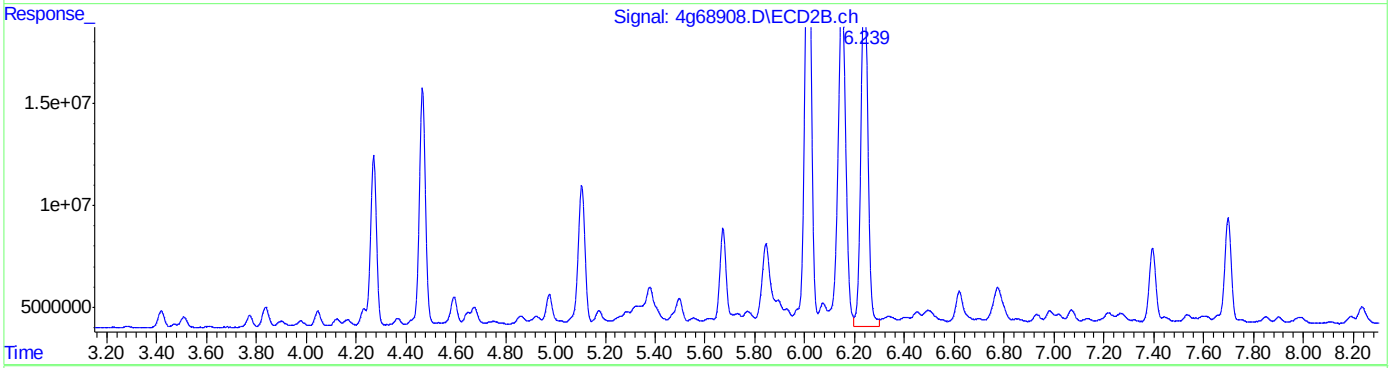
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:46 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(35) Chlordane {D}
5.092min 490.230 PPB
response 822692737

(35) Chlordane {D} #2
6.239min 232.069 PPB
response 352859349

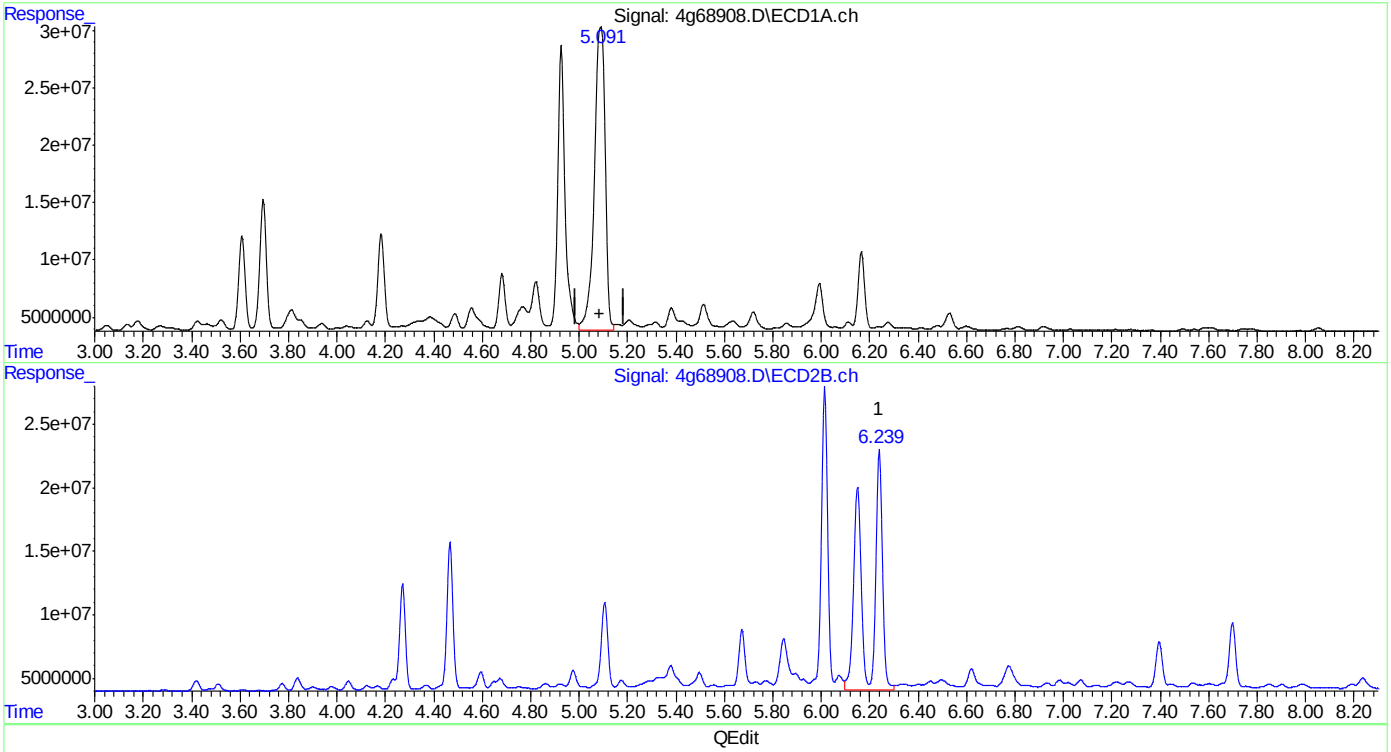
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 2:46 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.092min 490.230 PPB
response 822692737

(35) Chlordane {D} #2
6.239min 465.953 PPB m
response 708478360

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/07/16 11:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 3:01 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:11:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.874	2.051	439.7E6	358.5E6	50.000	50.000
25) I 1-bromo-2...	1.874	2.051	439.7E6	358.5E6	50.000	50.000
31) I 1-bromo-2...	1.874	2.051	439.7E6	358.5E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.431	2.827	334.0E6	295.4E6	43.748	45.113
Spiked Amount 40.000	Range 30 - 150		Recovery = 109.37%		112.78%	
24) SA Decachlor...	9.806	11.161	298.0E6	166.5E6	45.079	46.660m
Spiked Amount 40.000			Recovery = 112.70%		116.65%	
Target Compounds						
26) L8 Toxaphene{A}	5.622	6.734	68675343	84826834	460.470	502.281m
27) L8 Toxaphene{B}	6.256	7.589	175.3E6	87426563	462.113	482.451m
28) L8 Toxaphene{C}	6.438	7.752	138.2E6	151.6E6	458.449m	470.513
29) L8 Toxaphene{D}	6.774	8.187	110.0E6	92187386	469.944	475.723
30) L8 Toxaphene{E}	7.436	9.088	114.9E6	72242241	437.739	491.820

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

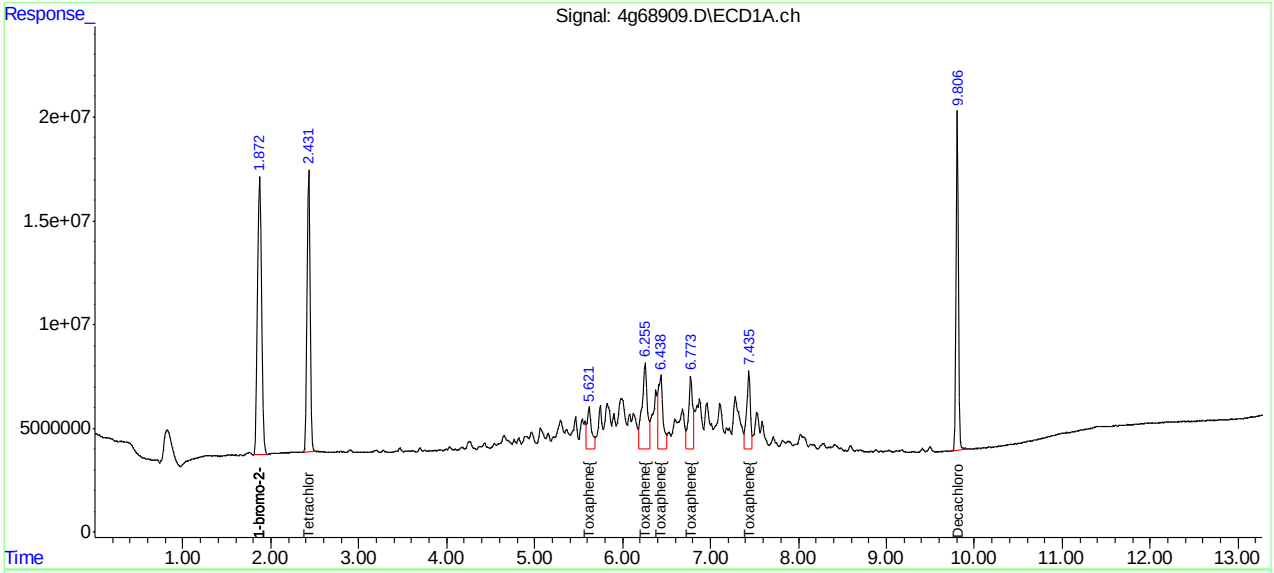
11.6.50 11

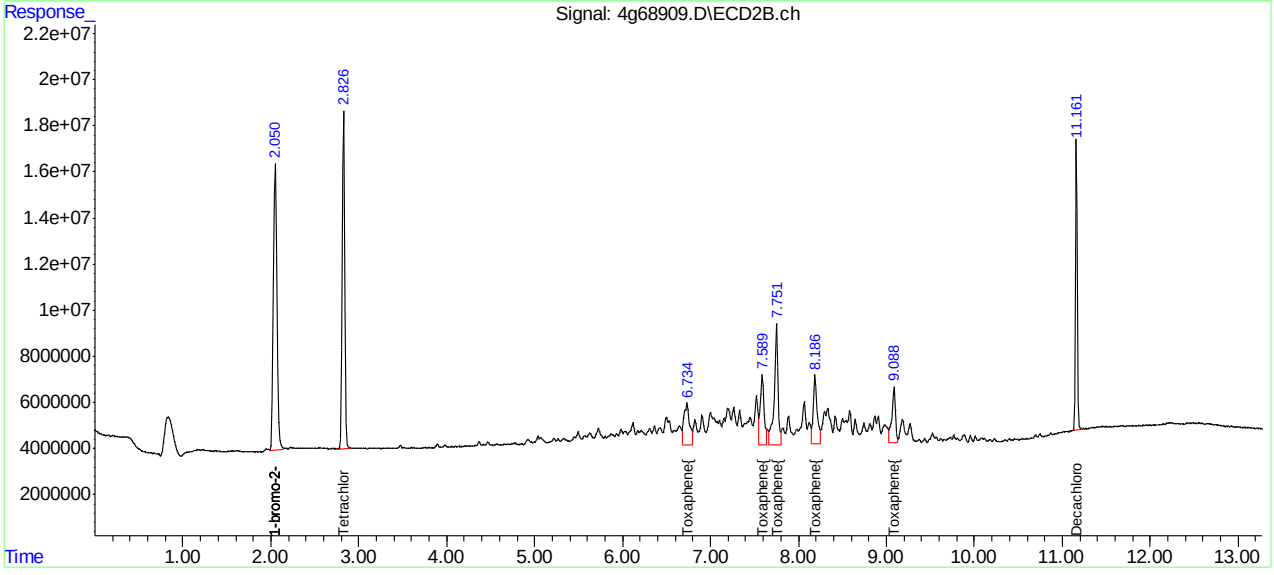
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 3:01 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:11:26 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1811-ICV1811	**Method:**	SW846 8081B
Lab FileID:	4G68909.D	**Analyst approved:**	06/06/16 17:19 Joseph Ravino
Injection Time:	06/06/16 15:01	**Supervisor approved:**	06/07/16 11:11 Gwendolyn Burns

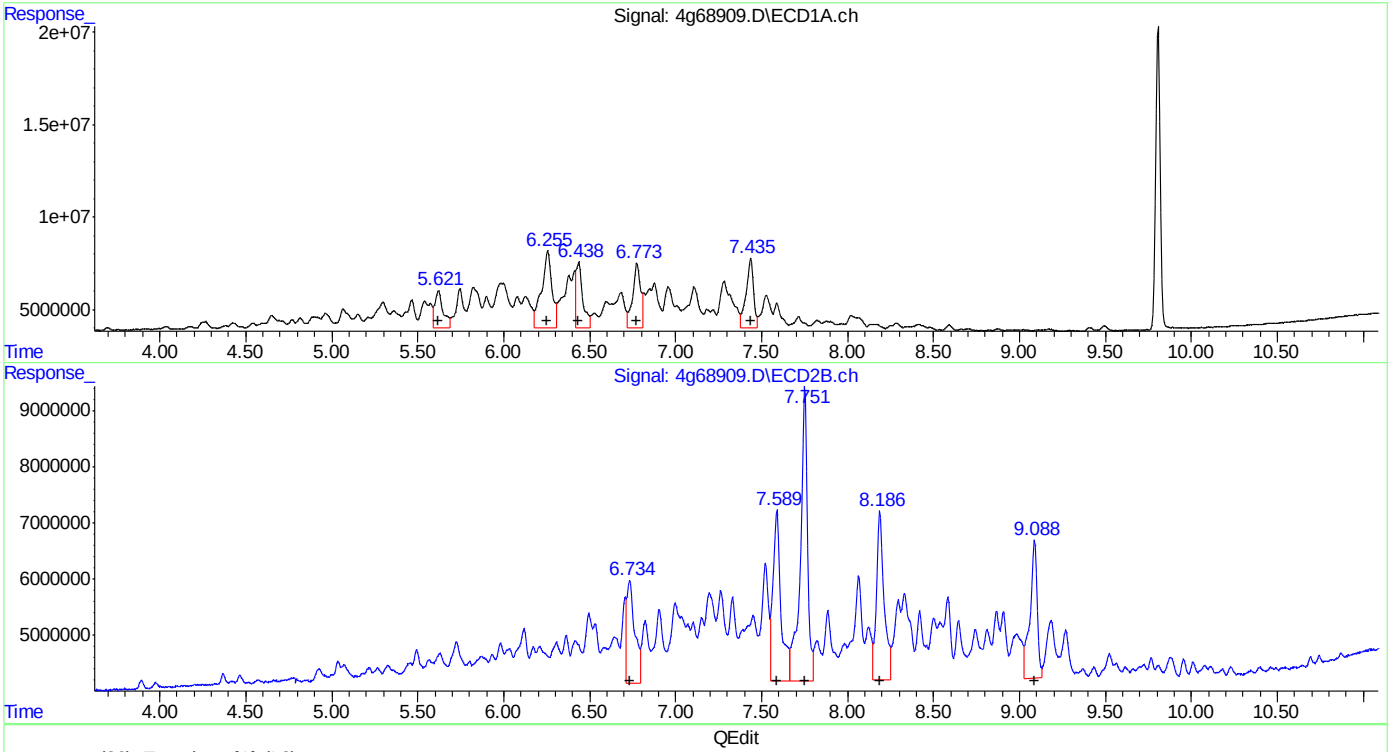
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	6.44	Split peak
Toxaphene-A		2	6.73	Split peak
Toxaphene-B		2	7.59	Split peak
Decachlorobiphenyl	2051-24-3	2	11.16	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 3:01 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:09:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.62	68675343	460.47
6.26	175274860	462.11
6.44	99452549	329.95
6.77	110033144	469.94
7.44	114851545	437.74

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.73	58636806	347.20
7.59	100533194	554.78
7.75	151633933	470.51
8.19	92187386	475.72
9.09	72242241	491.82

(+) = Expected Retention Time

SGS ACCUTEST JC21229

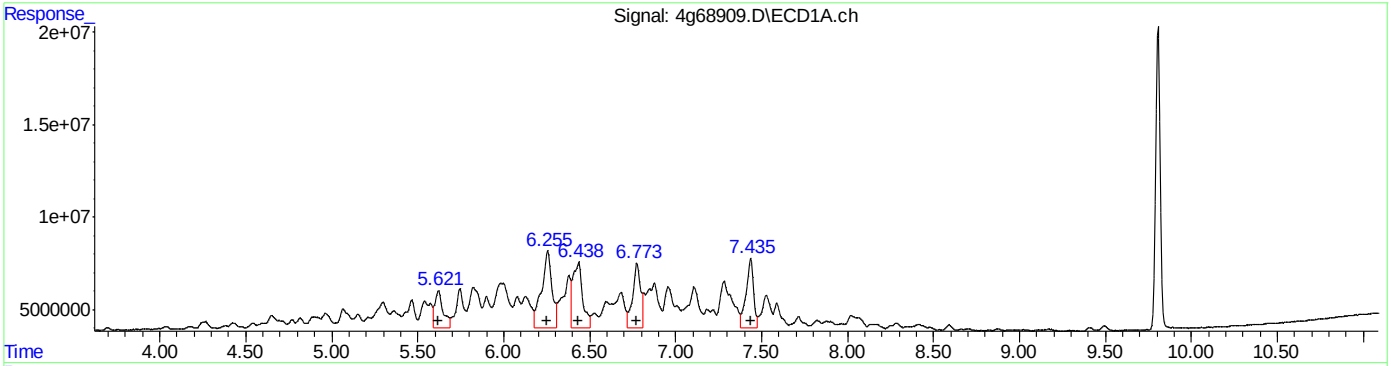
11.6.50.2 11

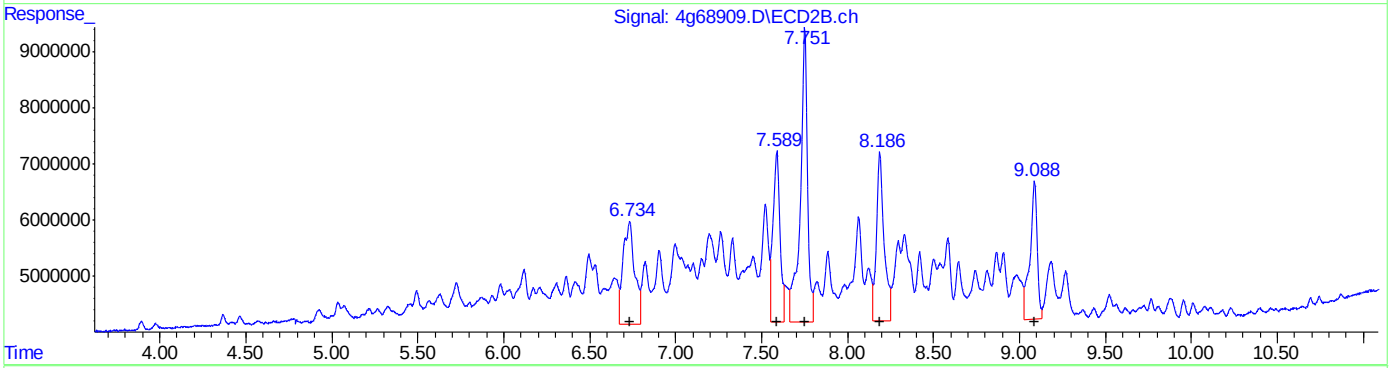
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 3:01 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:09:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.62	68675343	460.47
6.26	175274860	462.11
6.44	138184784	458.45
6.77	110033144	469.94
7.44	114851545	437.74

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.73	84826834	502.28
7.59	87426563	482.45
7.75	151633933	470.51
8.19	92187386	475.72
9.09	72242241	491.82

(+) = Expected Retention Time

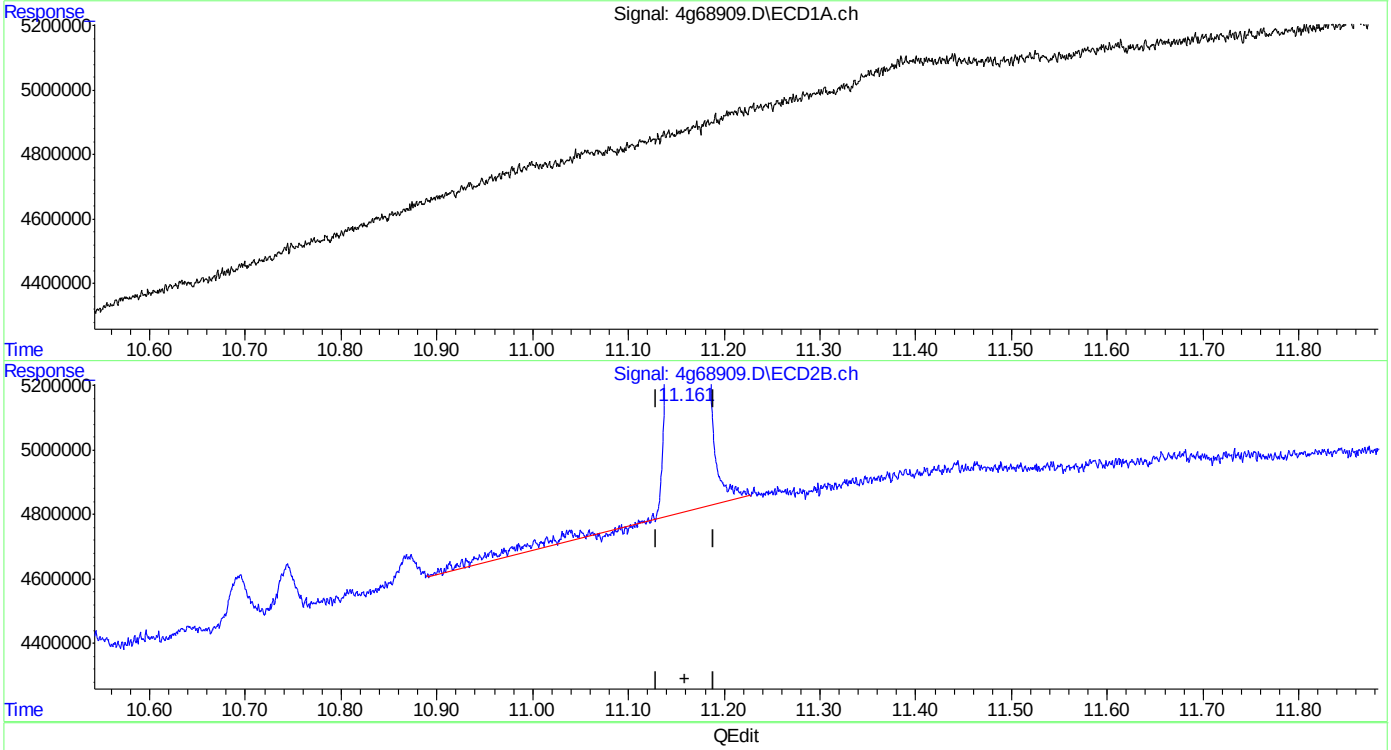
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 3:01 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:10:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.806min 45.079 PPB
response 297993532

(24) Decachlorobiphenyl #2 (SA)
11.161min 46.988 PPB
response 167719239

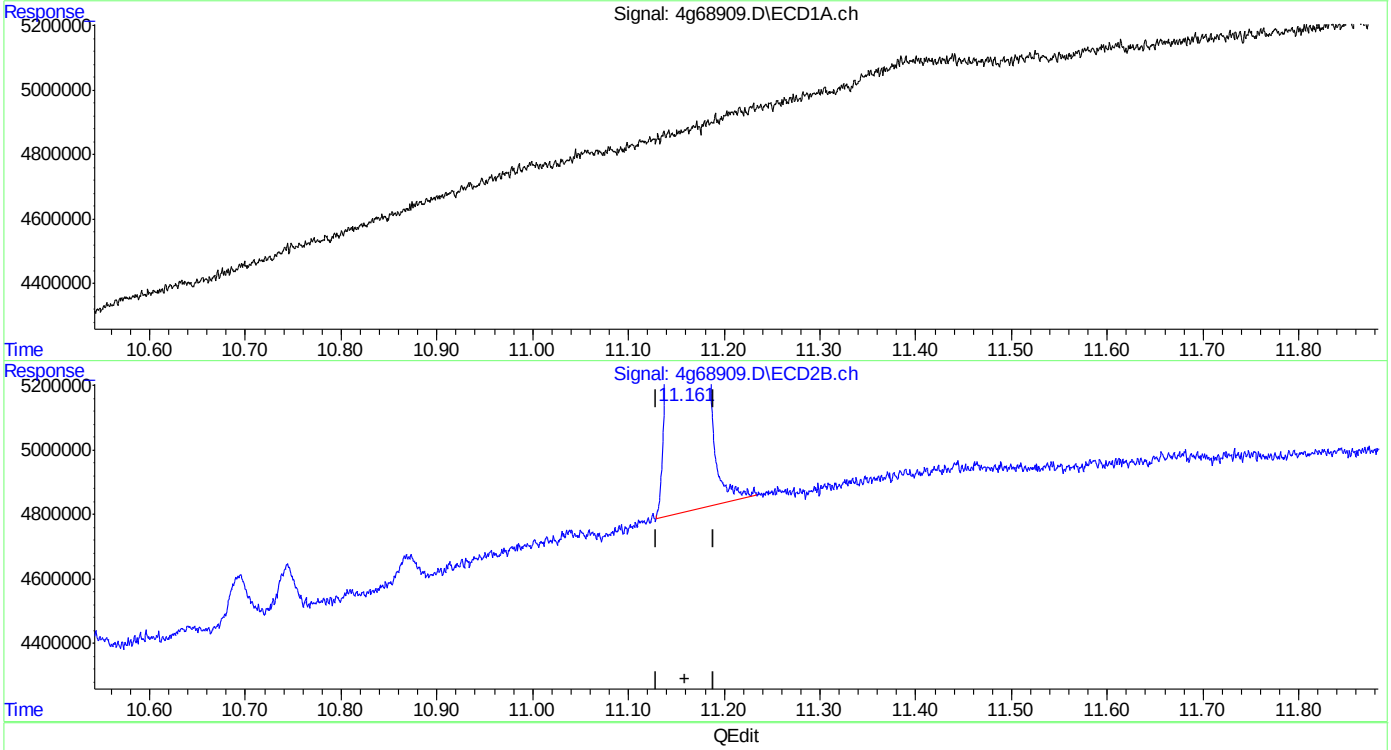
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1811\
Data File : 4g68909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Jun 2016 3:01 pm
Operator : josephr
Sample : icv1811-500
Misc : op94393,g4g1811,15.0,,,10,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 06 17:10:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(24) Decachlorobiphenyl (SA)
9.806min 45.079 PPB
response 297993532

(24) Decachlorobiphenyl #2 (SA)
11.161min 46.660 PPB m
response 166549194

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/08/16 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 11:57 am
Operator : kristend
Sample : cc1811-25
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:30:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.875	2.039	427.1E6	352.5E6	50.000	50.000
25) I	1-bromo-2...	1.875	2.039	427.1E6	352.5E6	50.000	50.000
31) I	1-bromo-2...	1.875	2.039	427.1E6	352.5E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.433	2.813	185.1E6	155.5E6	24.961	24.149
Spiked Amount		40.000 Range	30 - 150	Recovery	=	62.40%	60.37%
24) SA	Decachlor...	9.811	11.163	163.2E6	90573907	25.414	25.811m
Spiked Amount		40.000		Recovery	=	63.54%	64.53%
	Target Compounds						
3) A	alpha-BHC	2.907	3.457f	262.4E6	224.0E6	25.282	24.540
4) MA	gamma-BHC	3.204	3.877f	240.4E6	203.1E6	25.409	23.854
5) MA	Heptachlor	3.701	4.450f	236.3E6	202.5E6	25.671	24.350
6) B	beta-BHC	3.282	3.958f	108.0E6	89343027	24.645	22.945
7) B	delta-BHC	3.471	4.351f	221.8E6	185.0E6	24.298	23.467
8) MB	Aldrin	4.040	4.899f	222.0E6	191.1E6	25.658	23.559
9) B	Heptachlo...	4.771	5.715f	205.1E6	171.4E6	25.330	24.798
10) B	gamma-Chl...	4.932	5.997f	205.5E6	170.9E6	25.087	24.560
11) B	alpha-Chl...	5.105	6.223f	201.9E6	165.5E6	25.345	24.410
12) A	Endosulfan I	5.293	6.319f	200.1E6	161.1E6	25.776	24.769
13) B	4,4'-DDE	5.213	6.484f	207.2E6	169.7E6	26.842	24.705
14) MA	Dieldrin	5.618	6.753f	210.1E6	168.6E6	25.641	24.616
15) MA	Endrin	5.948	7.256f	191.4E6	145.5E6	26.689	25.100
16) A	4,4'-DDD	6.064	7.433	160.4E6	128.2E6	24.840	24.410
17) B	Endosulfa...	6.278	7.605	184.2E6	140.1E6	25.211	24.042
18) MA	4,4'-DDT	6.485	7.966	161.7E6	121.4E6	25.073	24.506
19) B	Endrin Al...	6.921	8.176	144.0E6	106.0E6	24.749	24.278
20) B	Endosulfa...	7.620	8.644	146.7E6	105.1E6	22.797	23.124
21) A	Methoxychlor	7.274	9.205	86617995	59411129	24.821	25.489
22)	Mirex	7.422	9.537	144.4E6	89514338	24.446	25.052
23) B	Endrin Ke...	8.059	9.601	172.2E6	113.2E6	23.117	23.338

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.51 11

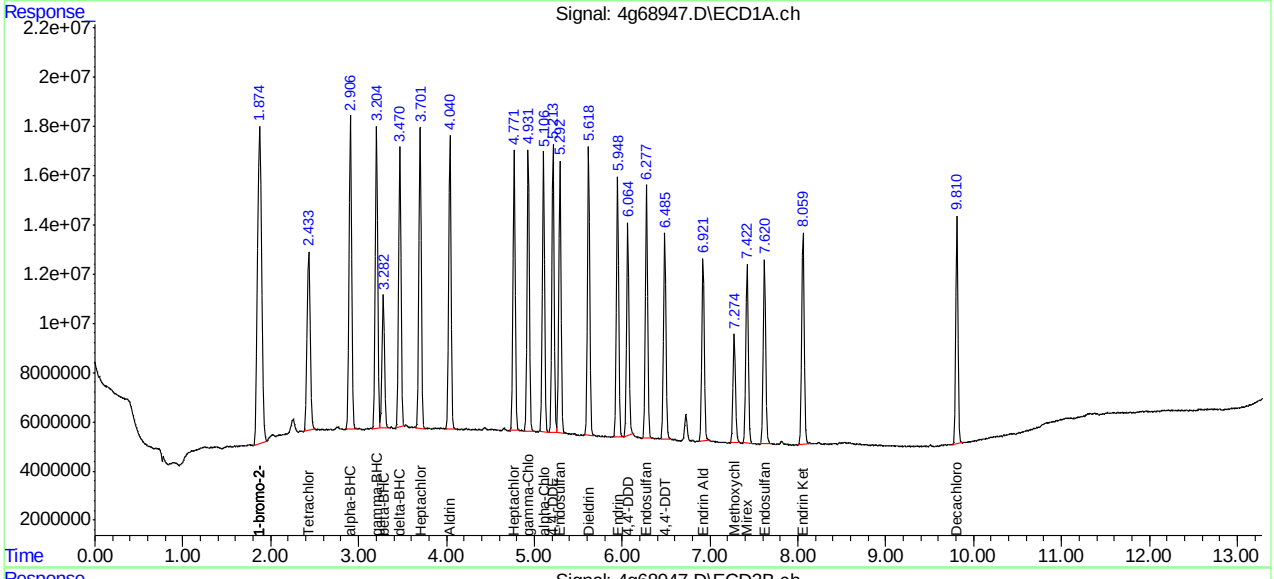
SGS ACCUTEST JC21229

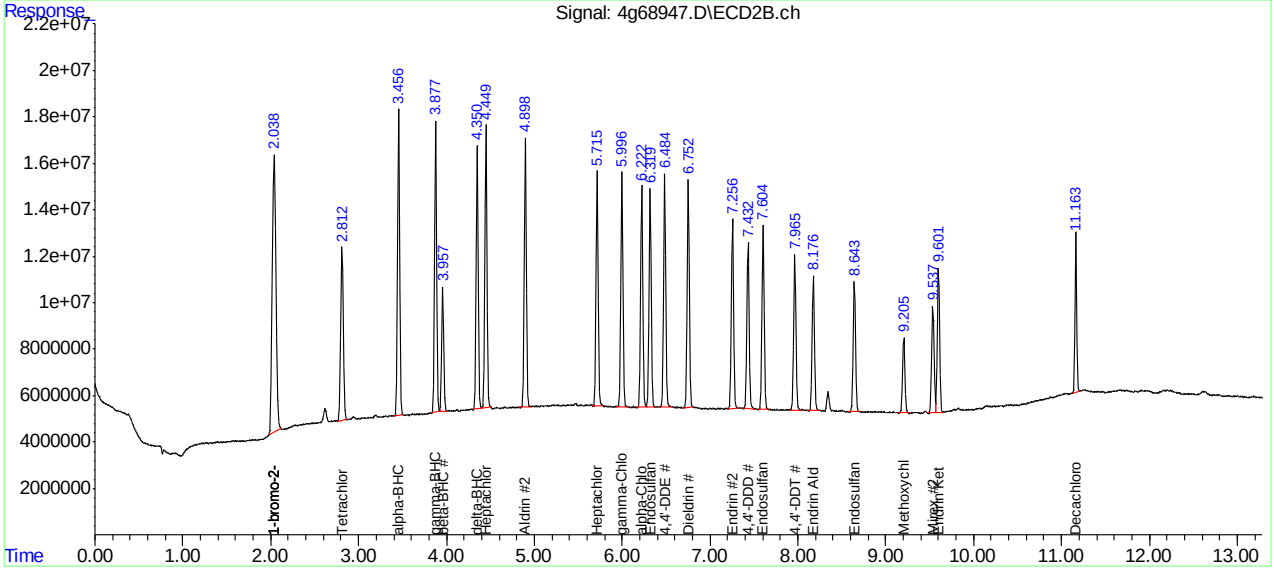
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 11:57 am
Operator : kristend
Sample : cc1811-25
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:30:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1813-CC1811	**Method:**	EPA 608
Lab FileID:	4G68947.D	**Analyst approved:**	06/07/16 14:50 Dhara Saparia
Injection Time:	06/07/16 11:57	**Supervisor approved:**	06/08/16 11:20 Gwendolyn Burns

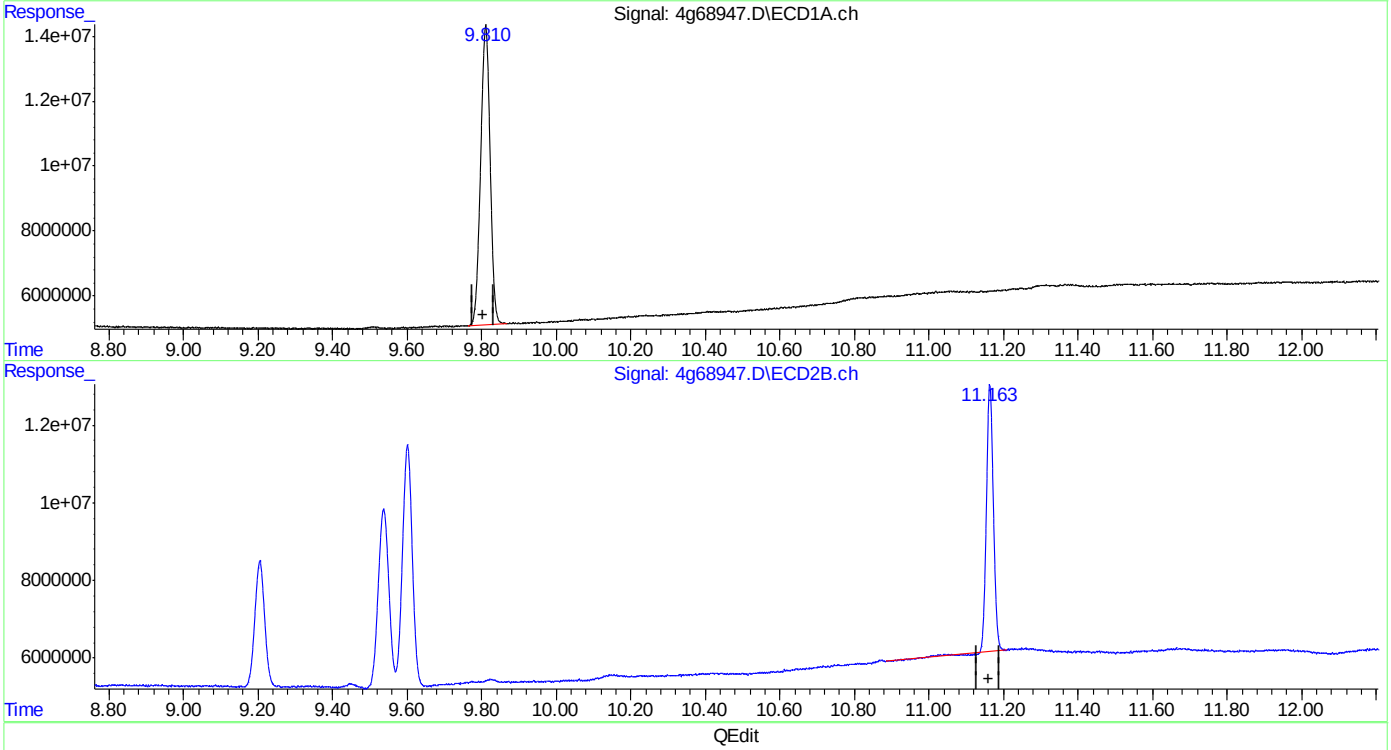
Parameter	CAS	Sig#	R.T. (min.)	Reason
Decachlorobiphenyl	2051-24-3	2	11.16	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 11:57 am
Operator : kristend
Sample : cc1811-25
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:30:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.811min 25.414 PPB
response 163199224

(24) Decachlorobiphenyl #2 (SA)
11.164min 25.351 PPB
response 88958937

(+) = Expected Retention Time

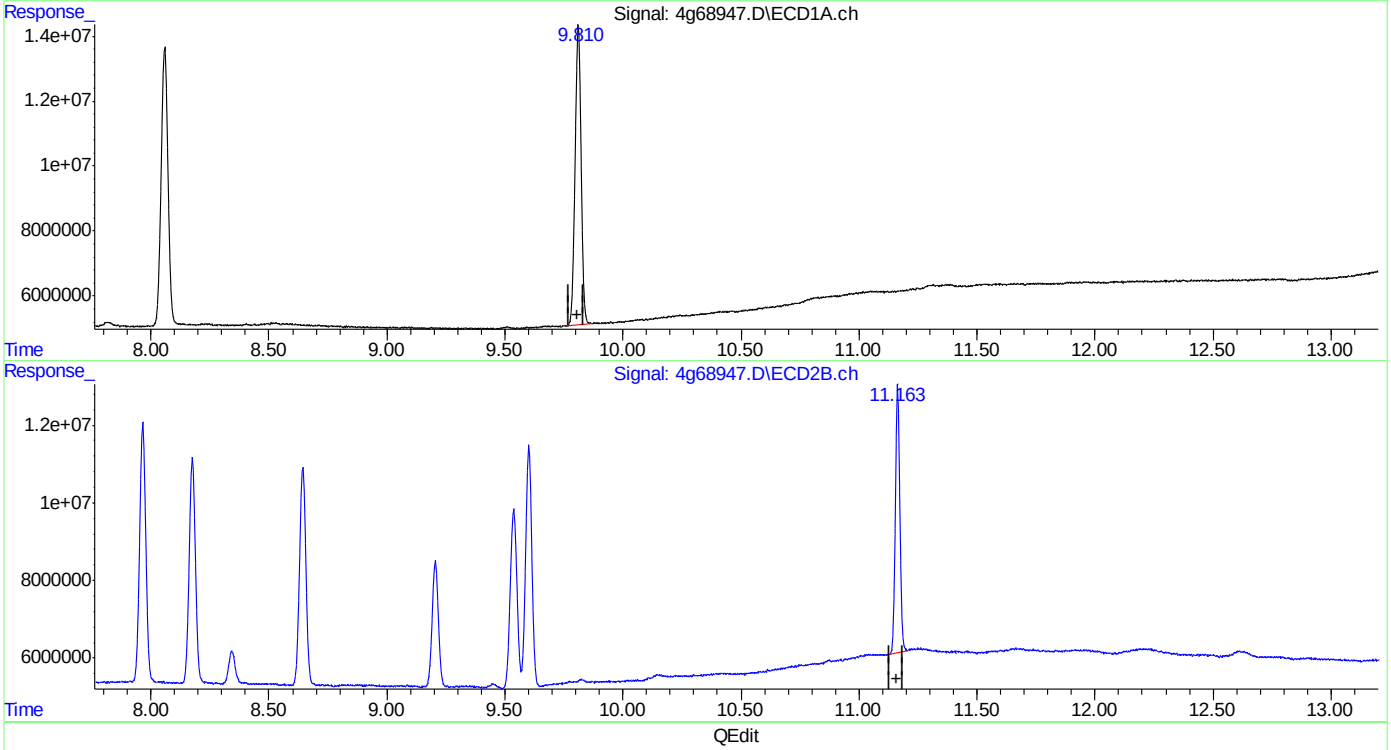
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 11:57 am
Operator : kristend
Sample : cc1811-25
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 12:30:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



(24) Decachlorobiphenyl (SA)
9.811min 25.414 PPB
response 163199224

(24) Decachlorobiphenyl #2 (SA)
11.163min 25.811 PPB m
response 90573907

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 06/08/16 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:12 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:15:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.874	2.049	468.2E6	389.4E6	50.000	50.000
25) I	1-bromo-2...	1.874	2.049	468.2E6	389.4E6	50.000	50.000
31) I	1-bromo-2...	1.874	2.049	468.2E6	389.4E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.430	2.825	504.2E6	369.2E6	62.022	51.909
Spiked Amount		40.000	Range	30 - 150	Recovery	= 155.05%#	129.77%
24) SA	Decachlor...	9.805	11.161	335.7E6	192.8E6	47.698	49.745
Spiked Amount		40.000			Recovery	= 119.25%	124.36%
	Target Compounds						
32)	Chlordane...	3.607	4.268	145.4E6	130.1E6	499.801	486.953
33)	Chlordane...	4.182	5.102	174.7E6	140.6E6	496.892	478.213
34)	Chlordane...	4.925	6.010	596.7E6	478.2E6	503.405	474.126
35)	Chlordane...	5.084	6.235	923.1E6	774.2E6	505.396	472.088m
36)	Chlordane...	6.164	7.693	141.4E6	110.2E6	498.585	426.174

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.52 11

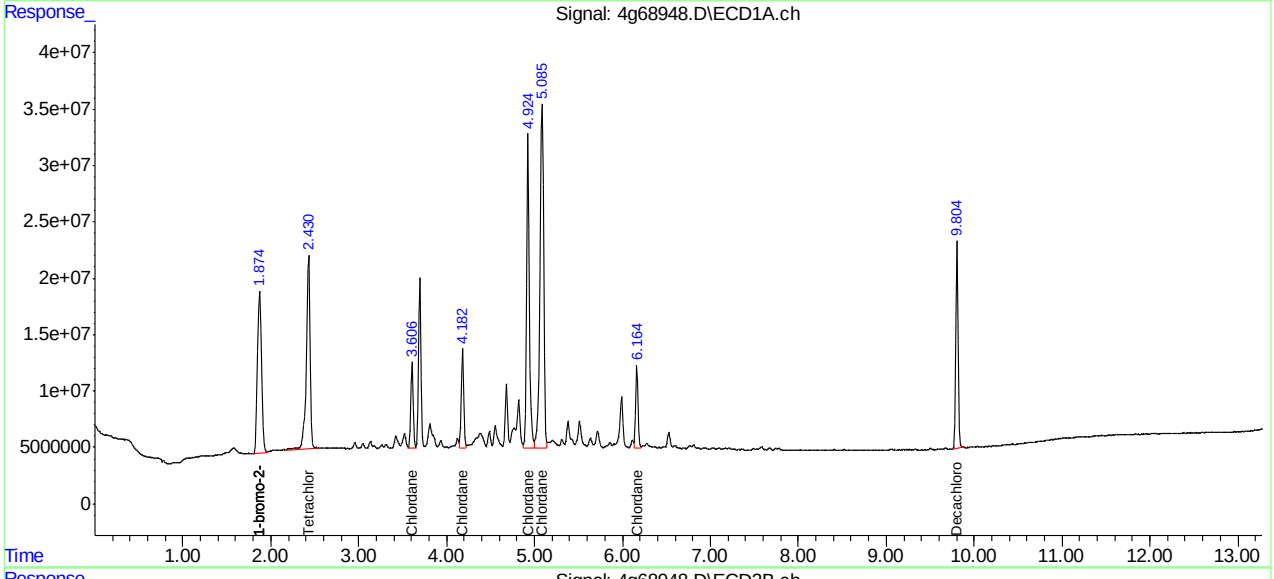
SGS ACCUTEST JC21229

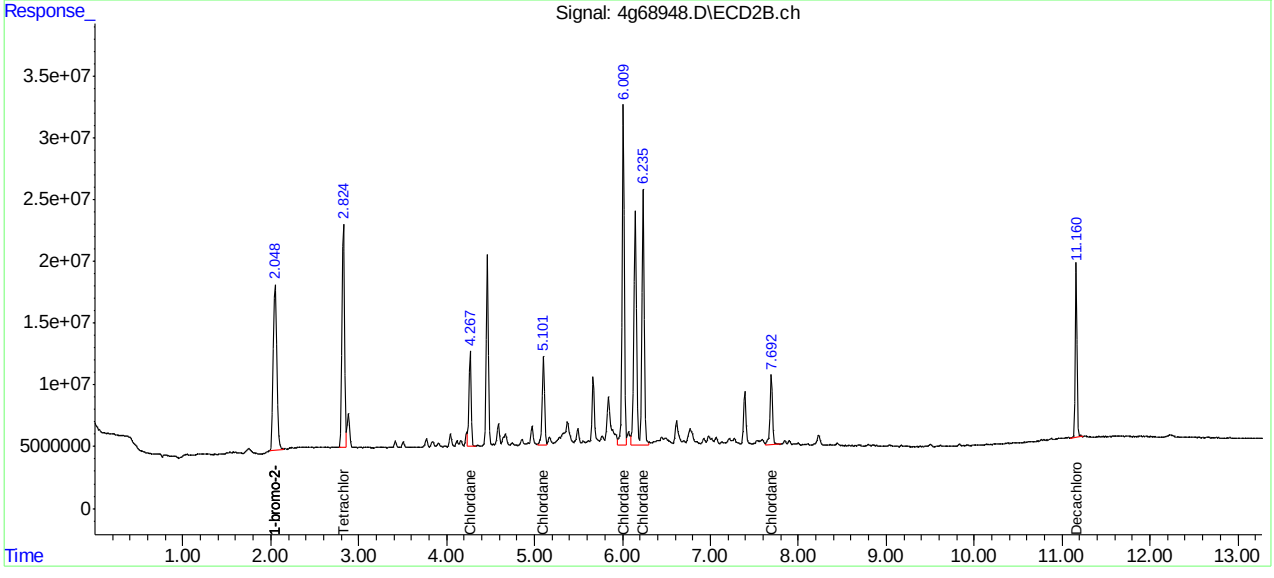
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:12 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:15:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1813-CC1811	**Method:**	EPA 608
Lab FileID:	4G68948.D	**Analyst approved:**	06/07/16 14:31 Joseph Ravino
Injection Time:	06/07/16 12:12	**Supervisor approved:**	06/08/16 11:20 Gwendolyn Burns

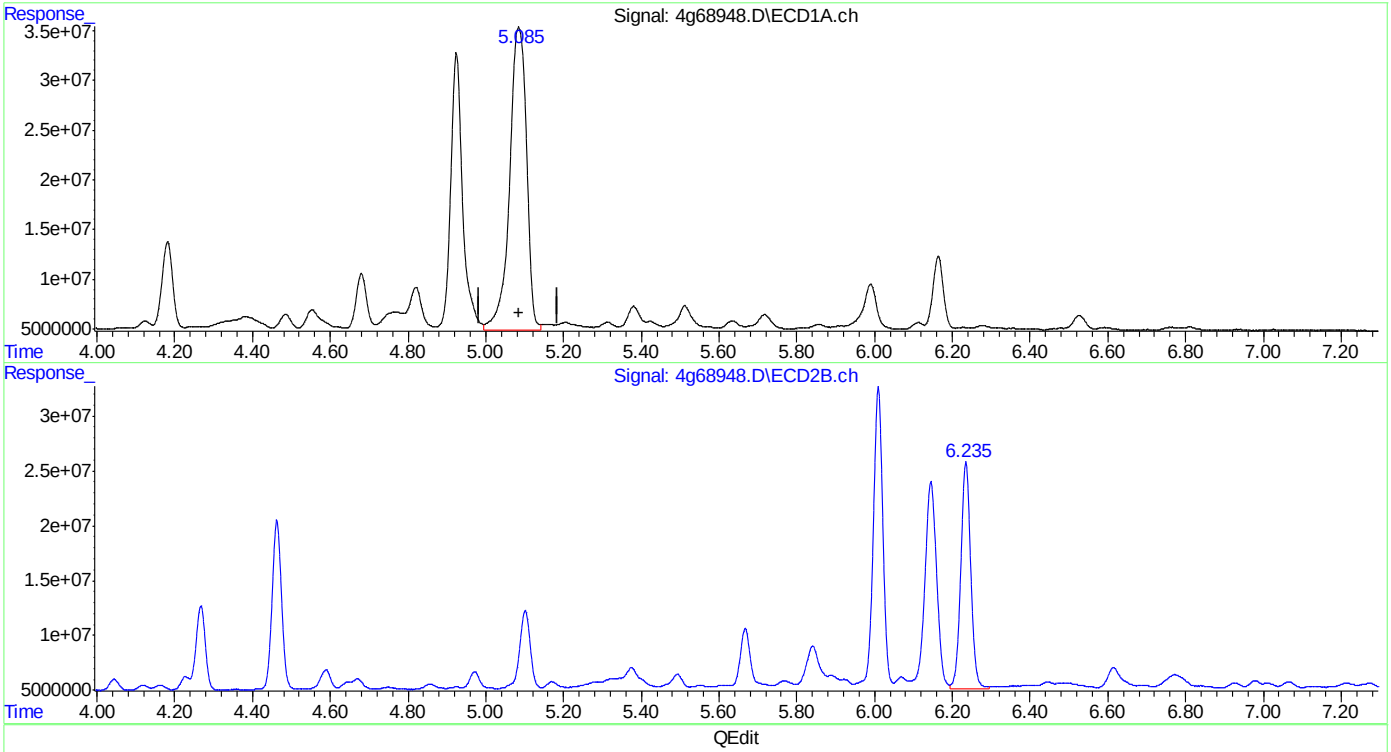
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlordane-D		2	6.23	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:12 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:14:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.084min 505.396 PPB
response 923136310

(35) Chlordane {D} #2
6.235min 225.906 PPB
response 370491587

(+) = Expected Retention Time
4PST1811.M Tue Jun 07 14:15:06 2016 RPT1

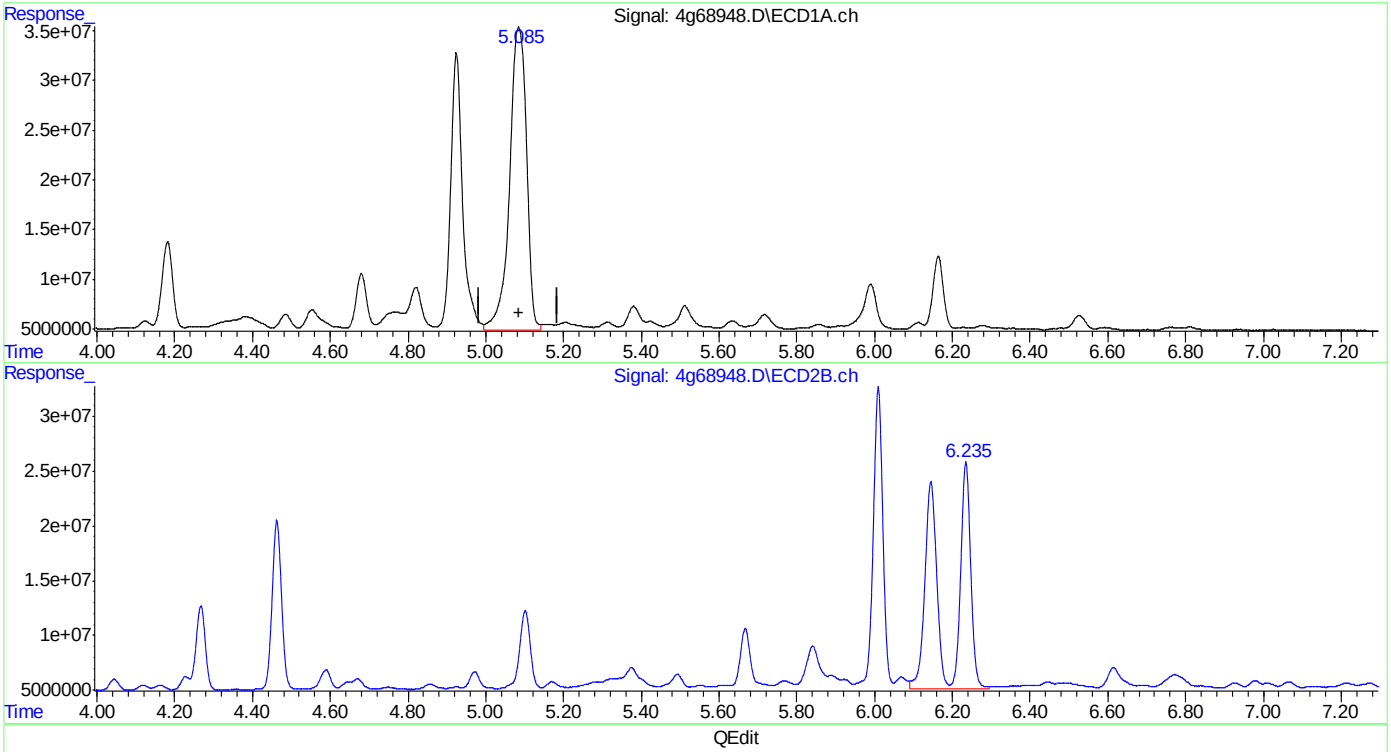
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:12 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:14:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(35) Chlordane {D}
5.084min 505.396 PPB
response 923136310

(35) Chlordane {D} #2
6.235min 472.088 PPB m
response 774235285

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
06/08/16 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:27 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:20:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
Internal Standards						
1) I 1-bromo-2...	1.873	2.048	460.7E6	387.8E6	50.000	50.000
25) I 1-bromo-2...	1.873	2.048	460.7E6	387.8E6	50.000	50.000
31) I 1-bromo-2...	1.873	2.048	460.7E6	387.8E6	50.000	50.000
System Monitoring Compounds						
2) SAB Tetrachlo...	2.430	2.824	425.7E6	373.3E6	53.208	52.705
Spiked Amount 40.000	Range 30 - 150		Recovery = 133.02%		131.76%	
24) SA Decachlor...	9.804	11.162	342.4E6	194.0E6	49.429	50.233
Spiked Amount 40.000			Recovery = 123.57%		125.58%	
Target Compounds						
26) L8 Toxaphene{A}	5.619	6.732	82355877	87755581	527.007	480.363m
27) L8 Toxaphene{B}	6.254	7.585	198.4E6	93795373	499.253	478.489
28) L8 Toxaphene{C}	6.435	7.747	165.2E6	167.1E6	522.933m	479.321
29) L8 Toxaphene{D}	6.772	8.184	126.0E6	98160298	513.603	468.274
30) L8 Toxaphene{E}	7.435	9.083	133.4E6	75111864	485.100	472.721

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11.6.53 11

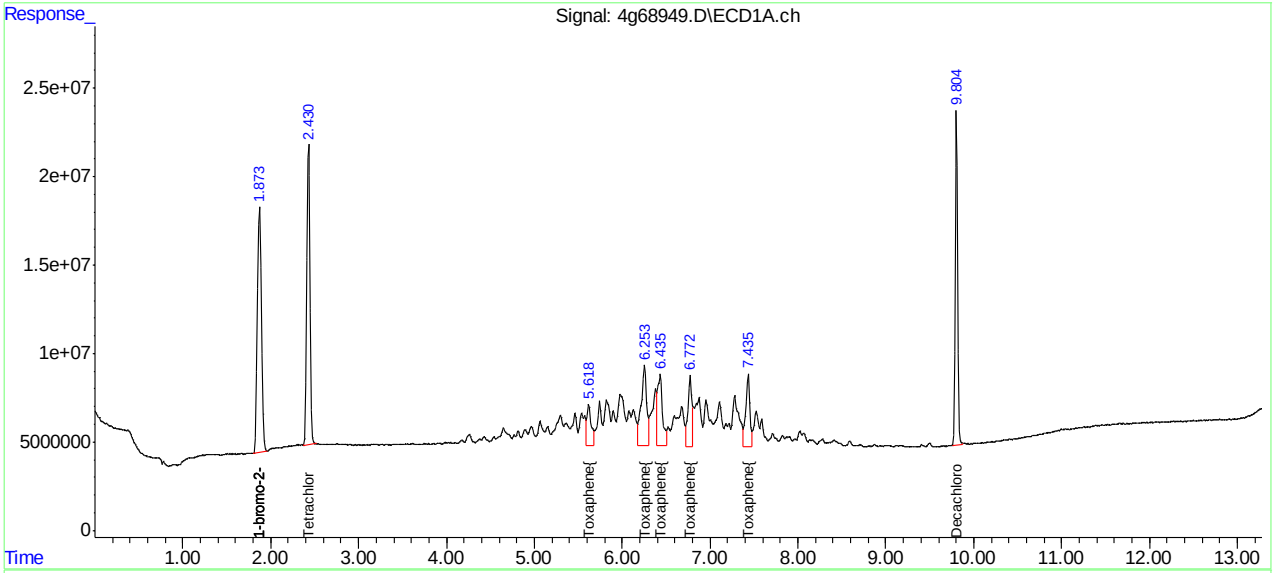
SGS ACCUTEST JC21229

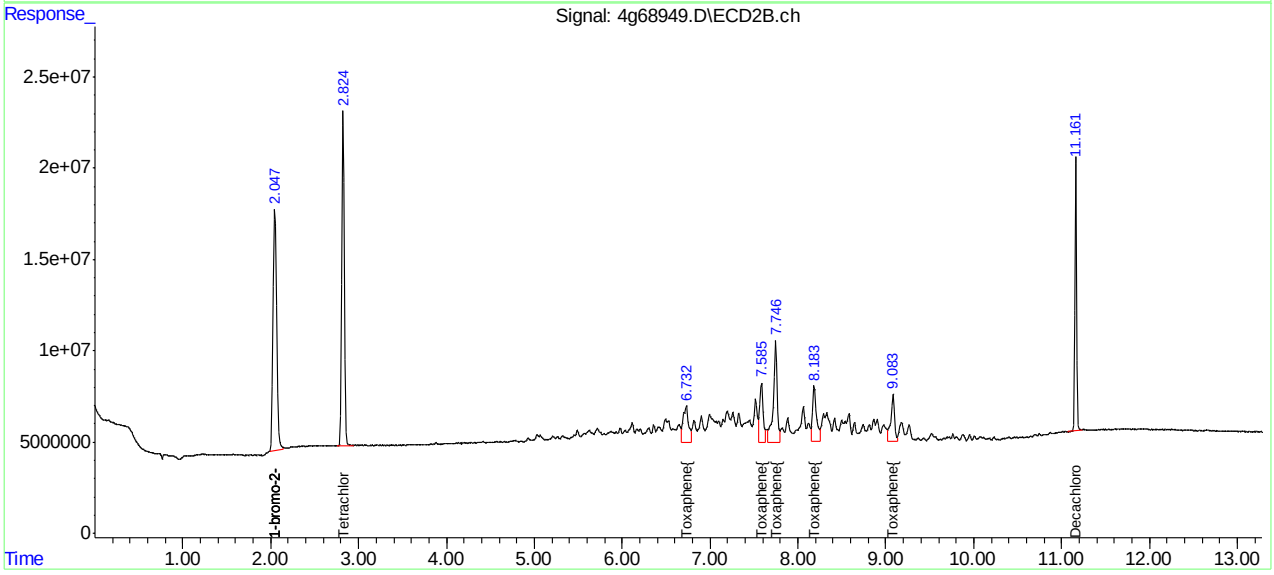
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:27 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:20:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





Manual Integration Approval Summary

Sample Number:	G4G1813-CC1811	**Method:**	EPA 608
Lab FileID:	4G68949.D	**Analyst approved:**	06/07/16 14:31 Joseph Ravino
Injection Time:	06/07/16 12:27	**Supervisor approved:**	06/08/16 11:20 Gwendolyn Burns

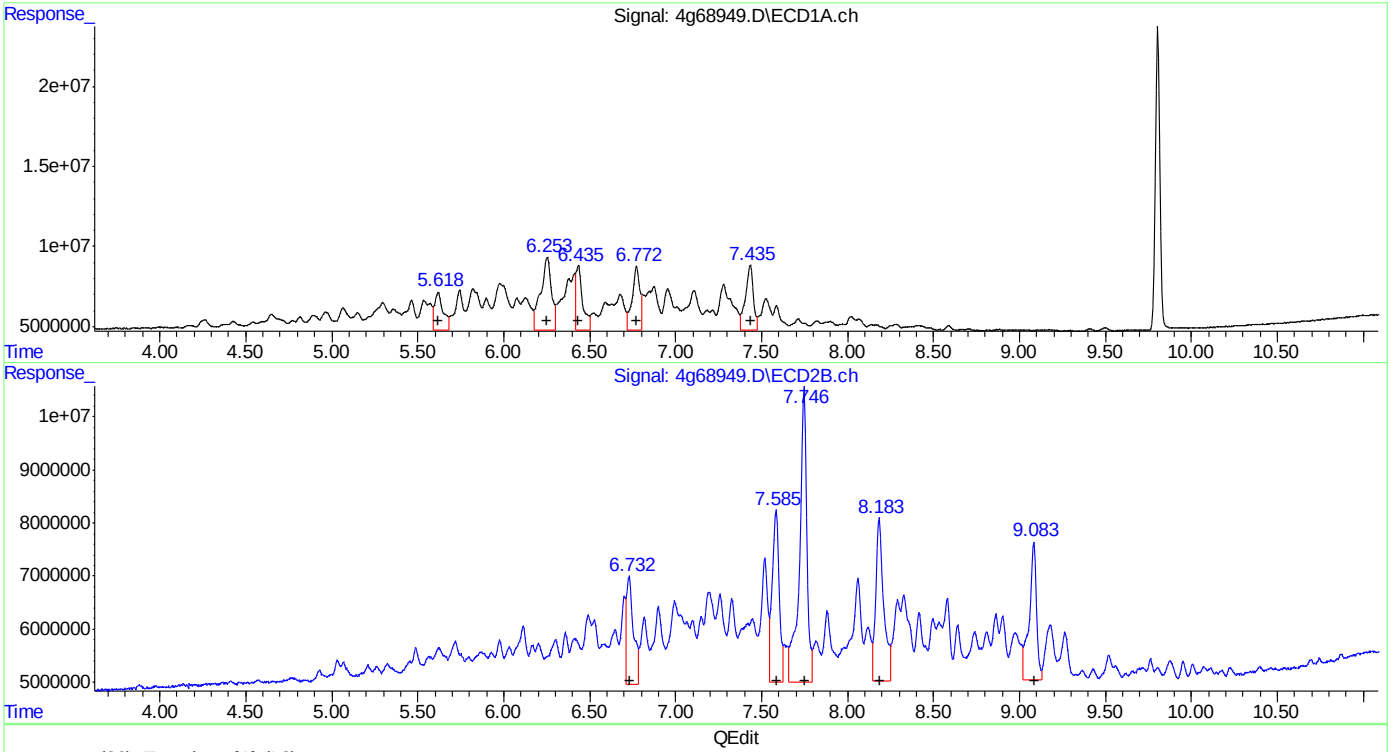
Parameter	CAS	Sig#	R.T. (min.)	Reason
Toxaphene-C		1	6.44	Split peak
Toxaphene-A		2	6.73	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:27 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:19:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.62	82355877	527.01
6.25	198413021	499.25
6.44	109344207	346.22
6.77	126003577	513.60
7.44	133361698	485.10

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.73	60421320	330.74
7.58	93795373	478.49
7.75	167097242	479.32
8.18	98160298	468.27
9.08	75111864	472.72

(+) = Expected Retention Time

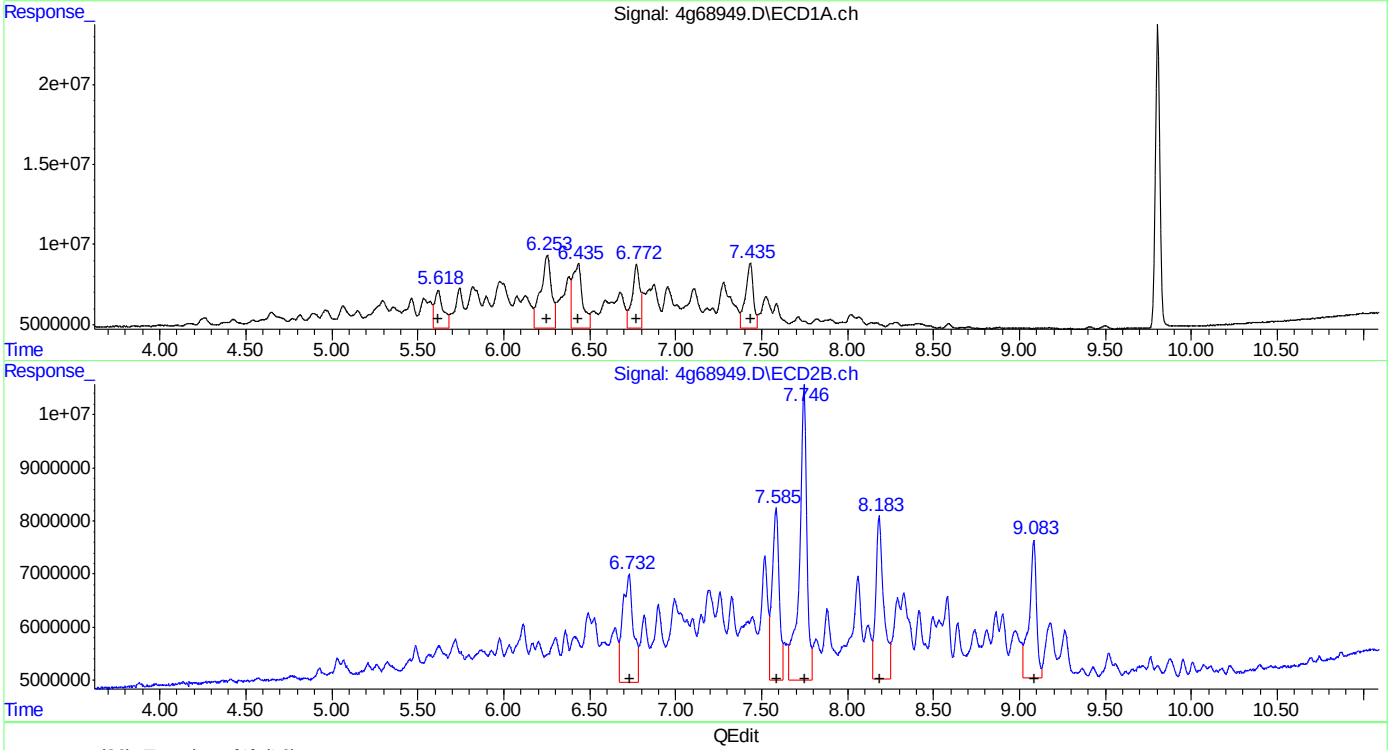
SGS ACCUTEST JC21229

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 12:27 pm
Operator : kristend
Sample : cc1811-500
Misc : op94421,g4g1813,1000,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 14:19:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um



QEdit

(26) Toxaphene{A} (L8)

R.T.	Response	Conc
5.62	82355877	527.01
6.25	198413021	499.25
6.44	165155481	522.93
6.77	126003577	513.60
7.44	133361698	485.10

(26) Toxaphene{A} #2 (L8)

R.T.	Response	Conc
6.73	87755581	480.36
7.58	93795373	478.49
7.75	167097242	479.32
8.18	98160298	468.27
9.08	75111864	472.72

(+) = Expected Retention Time

SGS ACCUTEST JC21229

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68959.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 4:31 pm
Operator : dharas
Sample : cc1811-50
Misc : op94393,g4g1813,990,,,10,5
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 16:54:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	Internal Standards						
1) I	1-bromo-2...	1.881	2.050	416.3E6	354.2E6	50.000	50.000
25) I	1-bromo-2...	1.881	2.050	416.3E6	354.2E6	50.000	50.000
31) I	1-bromo-2...	1.881	2.050	416.3E6	354.2E6	50.000	50.000
	System Monitoring Compounds						
2) SAB	Tetrachlo...	2.436	2.820	361.2E6	308.0E6	49.966	47.604
Spiked Amount		40.000 Range	30 - 150	Recovery	=	124.91%	119.01%
24) SA	Decachlor...	9.804	11.156	294.3E6	168.8E6	47.022	47.878
Spiked Amount		40.000		Recovery	=	117.55%	119.69%
	Target Compounds						
3) A	alpha-BHC	2.908	3.464	518.9E6	455.6E6	51.294	49.680
4) MA	gamma-BHC	3.204	3.886	471.6E6	408.2E6	51.135	47.716
5) MA	Heptachlor	3.698	4.458	463.9E6	414.6E6	51.690	49.620
6) B	beta-BHC	3.281	3.966	204.0E6	174.2E6	47.731	44.515
7) B	delta-BHC	3.469	4.359	450.3E6	383.0E6	50.600	48.339
8) MB	Aldrin	4.037	4.906	429.1E6	371.7E6	50.876	45.587
9) B	Heptachlo...	4.767	5.723	373.4E6	328.3E6	47.303	47.267
10) B	gamma-Chl...	4.927	6.005	380.0E6	320.8E6	47.585	45.881
11) B	alpha-Chl...	5.101	6.230	375.4E6	308.3E6	48.361	45.246
12) A	Endosulfan I	5.287	6.325	367.5E6	300.4E6	48.561	45.958
13) B	4,4'-DDE	5.208	6.492	379.7E6	318.9E6	50.481	46.202
14) MA	Dieldrin	5.613	6.760	392.2E6	320.1E6	49.109	46.519
15) MA	Endrin	5.943	7.262	368.2E6	281.8E6	52.684	48.378
16) A	4,4'-DDD	6.059	7.438	312.2E6	243.7E6	49.591	46.199
17) B	Endosulfa...	6.272	7.610	346.7E6	263.7E6	48.697	45.021
18) MA	4,4'-DDT	6.479	7.970	320.4E6	238.7E6	50.972	47.957
19) B	Endrin Al...	6.916	8.180	270.4E6	197.6E6	47.667	45.042
20) B	Endosulfa...	7.614	8.647	298.9E6	210.2E6	47.649	46.014
21) A	Methoxychlor	7.268	9.209	170.9E6	113.6E6	50.255	48.519
22)	Mirex	7.416	9.541	260.9E6	164.5E6	45.325	45.825
23) B	Endrin Ke...	8.051	9.605	344.5E6	230.6E6	47.440	47.303

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

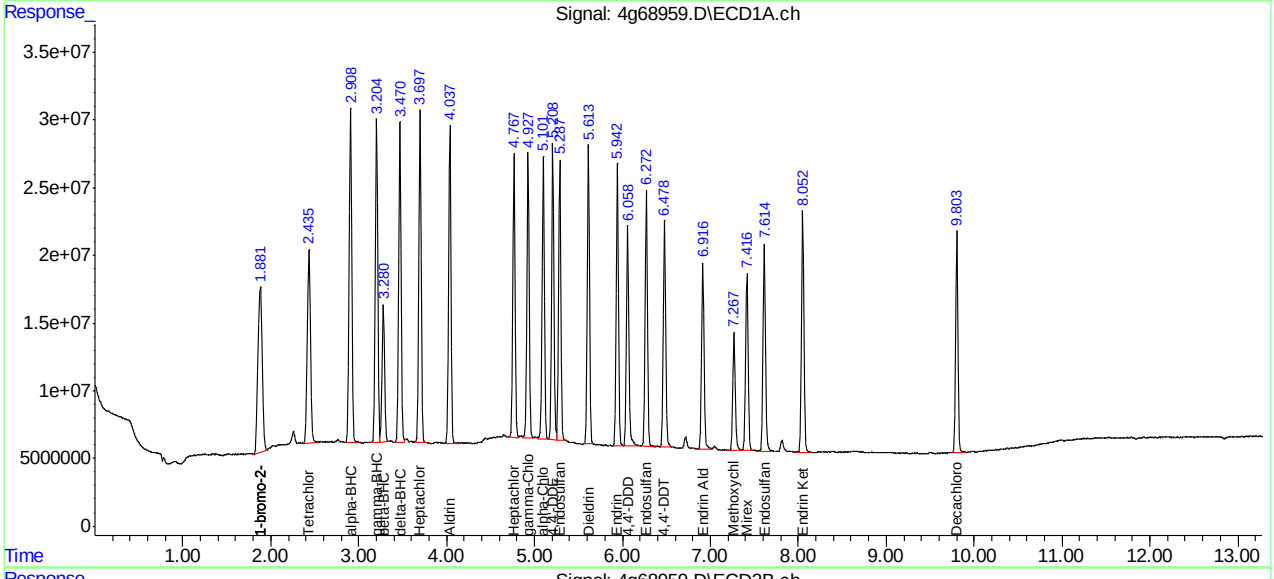
SGS ACCUTEST JC21229

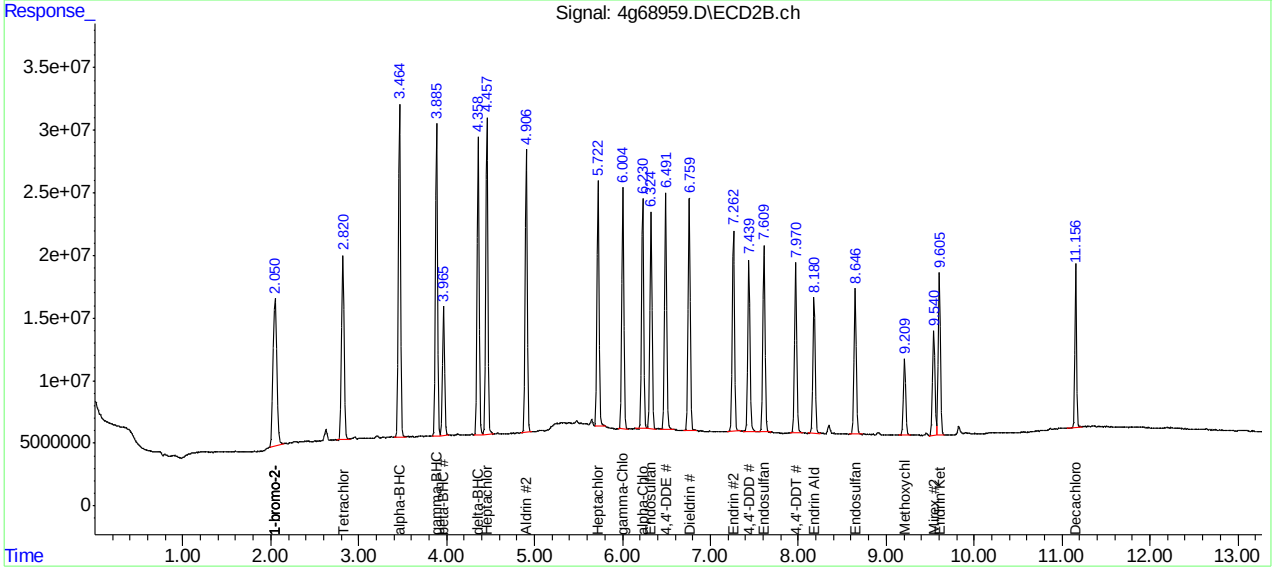
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\4G1813\
Data File : 4g68959.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Jun 2016 4:31 pm
Operator : dharas
Sample : cc1811-50
Misc : op94393,g4g1813,990,,,10,5
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 07 16:54:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\4PST1811.M
Quant Title : PEST/PCB
QLast Update : Mon Jun 06 16:59:13 2016
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/column
Signal #1 Phase : RTXCLP I Signal #2 Phase: RTX-CLP II
Signal #1 Info : 30mx.32mmx.32um Signal #2 Info : 30m x .32mm x .25um





SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G3988

Print Analyst Name: Rebecca Krug

Analyst Signature: RK

Date: 5/16/16

Columns: ZB CLPI / ZBCLPII

Method 8081

Initial Cal. Method IPST3988

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.
SV161874-1MB	Pest mix 1st source	25 ppb
-1MB		50
-1MRC		1/2
-1MRD		
-1MRE		5
-1MRF		10
-1MRG		75
-1MRH		100
SP161871299	mirex 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV161874-07	Pest IPSTD	5 ppm
-79	PCM	10-250 ppb
161933-09	IB	20 ppb
161874-20	chlordane 1st source	10 ppm
-21	Toxaphene 1st source	10 ppm
-96	chlordane 2nd source	500 ppb
-97	Toxaphene 2nd source	500 ppb
160563	Hexane Cfishork	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 5/19/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	123059 1G129 RK 5/16/16 ②	dclt				1			✓	OK	
	060	IB				2			✓	OK	
	061	IC3988 – 1	Pest mix	1st source		6			✓	OK	
	062	–2				7			✓	OK	
	063	–5				8			✓	OK	
	064	–10				9			✓	OK	
	065	IC3988 – 25				10			✓	OK	
	066	IC3988 – 50				11			✓	OK	
	067	–75				12			✓	OK	
	068	–100				13			✓	OK	
	069	–500	CHL			14	20		✓	OK	
	070	–500	TOX			15	20		✓	OK	
	071	IC3988-25	Pest	2nd source		16	10		✓	OK	lot # SV16-1874-95
	072	–25	mirex			17	10		✓	OK	
	073	–500	CHL			18			✓	OK	
	074	–500	TOX			19			✓	OK	
											RK 5/17/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC1G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	1G123065.D	05/16/16 11:21	G1G3988-ICC3988	THOMASL
Std#2	1G123075.D	05/16/16 14:16	G1G3989-CC3988	REBECCAK
Std#3	1G123088.D	05/16/16 19:32	G1G3989-CC3988	REBECCAK

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
1-Bromo-2-nitrobenzene	1	ISTD	1.33	1.33	1.33	1.33	0.000	+/- 0.030 [a]
1-Bromo-2-nitrobenzene	2	ISTD	1.50	1.49	1.49	1.49	0.006	+/- 0.030 [a]
Tetrachloro-m-xylene	1	SURR	1.93	1.92	1.92	1.92	0.006	+/- 0.030 [a]
Decachlorobiphenyl	1	SURR	9.23	9.23	9.23	9.23	0.000	+/- 0.030 [a]
Tetrachloro-m-xylene	2	SURR	2.30	2.29	2.29	2.29	0.006	+/- 0.030 [a]
Decachlorobiphenyl	2	SURR	10.68	10.68	10.68	10.68	0.000	+/- 0.030 [a]
alpha-BHC	1	REG	2.41	2.41	2.41	2.41	0.000	+/- 0.030 [a]
gamma-BHC (Lindane)	1	REG	2.71	2.71	2.71	2.71	0.000	+/- 0.030 [a]
beta-BHC	1	REG	2.78	2.78	2.78	2.78	0.000	+/- 0.030 [a]
delta-BHC	1	REG	2.97	2.97	2.97	2.97	0.000	+/- 0.030 [a]
Heptachlor	1	REG	3.20	3.20	3.19	3.20	0.006	+/- 0.030 [a]
Aldrin	1	REG	3.53	3.53	3.52	3.53	0.006	+/- 0.030 [a]
Heptachlor epoxide	1	REG	4.24	4.24	4.24	4.24	0.000	+/- 0.030 [a]
gamma-Chlordane	1	REG	4.40	4.40	4.39	4.40	0.006	+/- 0.030 [a]
alpha-Chlordane	1	REG	4.57	4.57	4.56	4.57	0.006	+/- 0.030 [a]
4,4'-DDE	1	REG	4.68	4.68	4.67	4.68	0.006	+/- 0.030 [a]
Endosulfan-I	1	REG	4.75	4.75	4.75	4.75	0.000	+/- 0.030 [a]
Dieldrin	1	REG	5.07	5.07	5.07	5.07	0.000	+/- 0.030 [a]
Endrin	1	REG	5.39	5.39	5.39	5.39	0.000	+/- 0.030 [a]
4,4'-DDD	1	REG	5.51	5.51	5.50	5.51	0.006	+/- 0.030 [a]
Endosulfan-II	1	REG	5.71	5.71	5.71	5.71	0.000	+/- 0.030 [a]
4,4'-DDT	1	REG	5.92	5.92	5.92	5.92	0.000	+/- 0.030 [a]
Endrin aldehyde	1	REG	6.34	6.34	6.34	6.34	0.000	+/- 0.030 [a]
Methoxychlor	1	REG	6.70	6.69	6.69	6.69	0.006	+/- 0.030 [a]
Mirex	1	REG	6.82	6.82	6.82	6.82	0.000	+/- 0.030 [a]
Endosulfan sulfate	1	REG	7.03	7.03	7.03	7.03	0.000	+/- 0.030 [a]
Endrin ketone	1	REG	7.46	7.46	7.46	7.46	0.000	+/- 0.030 [a]
alpha-BHC	2	REG	2.94	2.94	2.93	2.94	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	2	REG	3.35	3.35	3.35	3.35	0.000	+/- 0.030 [a]
beta-BHC	2	REG	3.43	3.43	3.43	3.43	0.000	+/- 0.030 [a]
delta-BHC	2	REG	3.81	3.81	3.81	3.81	0.000	+/- 0.030 [a]
Heptachlor	2	REG	3.90	3.90	3.90	3.90	0.000	+/- 0.030 [a]
Aldrin	2	REG	4.34	4.34	4.34	4.34	0.000	+/- 0.030 [a]
Heptachlor epoxide	2	REG	5.14	5.14	5.14	5.14	0.000	+/- 0.030 [a]
gamma-Chlordane	2	REG	5.42	5.41	5.42	5.42	0.006	+/- 0.030 [a]
alpha-Chlordane	2	REG	5.64	5.64	5.64	5.64	0.000	+/- 0.030 [a]
Endosulfan-I	2	REG	5.73	5.73	5.73	5.73	0.000	+/- 0.030 [a]
4,4'-DDE	2	REG	5.90	5.90	5.90	5.90	0.000	+/- 0.030 [a]
Dieldrin	2	REG	6.15	6.15	6.15	6.15	0.000	+/- 0.030 [a]
Endrin	2	REG	6.65	6.64	6.64	6.64	0.006	+/- 0.030 [a]

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC1G
Method: SW846 8081B

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	1G123065.D	05/16/16 11:21	G1G3988-ICC3988	THOMASL
Std#2	1G123075.D	05/16/16 14:16	G1G3989-CC3988	REBECCAK
Std#3	1G123088.D	05/16/16 19:32	G1G3989-CC3988	REBECCAK

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
4,4'-DDD	2	REG	6.83	6.83	6.84	6.83	0.006	+/- 0.030 [a]
Endosulfan-II	2	REG	6.99	6.99	6.99	6.99	0.000	+/- 0.030 [a]
4,4'-DDT	2	REG	7.36	7.36	7.36	7.36	0.000	+/- 0.030 [a]
Endrin aldehyde	2	REG	7.56	7.56	7.56	7.56	0.000	+/- 0.030 [a]
Endosulfan sulfate	2	REG	8.02	8.02	8.02	8.02	0.000	+/- 0.030 [a]
Methoxychlor	2	REG	8.60	8.60	8.60	8.60	0.000	+/- 0.030 [a]
Mirex	2	REG	8.90	8.90	8.89	8.90	0.006	+/- 0.030 [a]
Endrin ketone	2	REG	8.97	8.97	8.97	8.97	0.000	+/- 0.030 [a]

(a) Default minimum StdDev of .01 minutes employed.

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4000

Print Analyst Name: Rebecca Krug

Analyst Signature: RK

Date: 5/31/16

Columns: ZBCLPI/ZBCLPII

Method 8081

Initial Cal. Method IPST3988

Injection Volume: 1.0 L

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU16G33-04	IB	20ppb
-35	Pest ISTD	5ppm
-51	PEM	10-250ppb
-47A	Pest mix	25ppb
-47B	Pest mix	50 ppb
160803	hexane (fisher)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] **Date:** 6/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	lg123687	ddt				1				Not usim	
	682	ddt				1		✓	✓	OK	
	683	CC3958-50				4		✓	✓	OK	Eik ↓ both
	684	3				3		✓	✓	OK	
	684	op94265-mbl	94265	PestBL	W	5		✓	✓	OK	
	685	op94265-bsl				6		✓	✓	OK	
	686	jc 20978-5				7		✓	✓	OK	
	687	jc 21030-7				8		✓	✓	OK	
	688	jc 20978-2				9		✓	✓	OK	
	689	jc 21030-4				10		✓	✓	OK	
	690	jc 21030-5				11		✓	✓	OK	
	691	jc 21030-6				12		✓	✓	OK	
	692	op94349-mbl	94349	Pest PPL		13		✓	✓	OK	Run before seq lg123686
	693	op94349-bsl				14		✓	✓	OK	
	694	op94349-bsd				15				Not usim	Pressure surge ↓ RR
	695	jc 21229-3		TCL		16		✓	✓	OK usim	RR with better cc
	696	jc 21229-4		↓		17				Not usim	↓
	697	LA 20965-2		PPL		18		✓	✓	OK	
	698	LA 20965-4		↓		19		✓	✓	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4000

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 5/31/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method 1PST3988

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1604334	FB	20 ppb
-35	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
1608623	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: 6/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1g123699	LA 20965-8	94349	Pest PPL	W	20		/	/	OK	
	700	LA 20965-9				21		/	/	OK	RR 1:20
	702	blk				1		/	/	OK	
	703	CC3988-25				2		/	/	OK	
	704	73				3		/	/	OK	
	705	OP94296-MD1	94296	Sol/ CBHC		5		/	/	OK	
	706	-BS1				6		/	/	OK	
	707	-MS				7		/	/	OK	
	708	-MSD				8		/	/	OK	
	709	JC21002-29				9		/	/	OK	
	710	OP94349-BSD	94349			10		/	/	OK	Run before SOR 12123707
	711	OP94235-MS	94235	TCL		11		/	/	OK	HAD TO A
	712	-MSD				12		/	/	OK	
	713	JC20848-11				13		/	/	OK	
	714	-12				14		/	/	OK	
	715	OP94265-MS	94265	TCL		15		/	/	OK	
	716	-MSD				16		/	/	OK	
	717	JC20904-4				17		/	/	OK	
	718	JC20888-5A				18		/	/	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4000

Print Analyst Name: Dhara Sapkota

Date: 5/31/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161933-35	Rept IS/SD	5 ppm

Columns: 2 column / 2 column

Method 8081

Initial Cal. Method 1 pt 3 pt

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/2/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123719	JC20999-9	94265	8081 TCL		19		✓	✓	OK	
	720	JC20886-2				20		✓	✓	OK	
	721	JC20882-4	94185			21	5	✓	✓	OK	
											DKS 5/31/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4001

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/1/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method IPST3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1693369	IB	20 ppb
-35	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
1608863	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: LR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1q123722	ddt				1				ok	
	723	cc3988-50				4				ok	
	724	ib				3				ok	
	725	op94358-mb1	94358			5				Not Using	Data Not AQR'd
	726	op94358-bs1				6				ok	
	727	jc21159-5		SL		7				ok	
	728	jc21181-7				8				ok	
	729	jc21159-1				9				ok	
	730	op94358-ms				10				ok	
	731	op94358-msd				11				ok	
	732	jc21099-9		TCL		12				ok	
	733	jc21081-18				13				ok	
	734	jc21175-3		A/CHL		14				not ok using 2nd col	rerun IS for istd DIC
	735	jc21175-8				15				ok	
	736	jc21181-1		SL		16				ok	
	737	jc21181-4				17				ok	
	738	jc21181-5				18				ok	
	739	jc21181-6				19				ok	
	740	jc21159-2				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: G1G H001

Print Analyst Name: Dharel Saporiq

Date: 6/1/16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-09	IB	20 ppb
-35	Pest IRTD	5 ppm
-51	PCM	70-250 ppb
-47A	Pest MIX	25 ppb
-47A	Pest MIX	50 ↓
160563	Heptane (Firm)	-

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method 1PST3988

Injection Volume: 1.0ul

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	121237n1	JC21229-3	9n3n9	for TCL	W	21				OK	Run before 121237n7
	7n2	-4				22				OK	
	7n3	Blk				1				OK	
	7n4	CC3988-25				2				OK	
	7n5	IB				3				OK	
	7n6	OP9n3n9-MB1	9n3n9	8081		5				Pt	↑ tcmx
	7n7	-BS1				6				Pt	↓
	7n8	OP9n265-MB1	9n265	8081		7				OK	
	7n9	-BS1				8				OK	
	750	OP9n273-MB1	9n273	TCL	S	9				OK	
	751	-BS1				10				OK	
	752	JC20904-1				11				OK	
	753	OP9n273-MS				12				OK	
	754	-MSD				13				OK	
	755	JC20904-2				14				OK	
	756	-3				15				OK	
	757	JC20936-1				16				OK	
	758	-2				17				not using	need TBA
	759	-3				18				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 JC21229

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: C-IC 4001

Print Analyst Name: Dhara Suparid

Date: 6/1/16

Analyst Signature: [signature]

Columns: 20CLPI | 20CLPII

Method: Ford

Initial Cal. Method: 1PST 3988

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-09	IB	20 ppb
-35	Pest IBTD	5 ppm
-51	PCM	10-250 ppb
-47A	Pest mix	25 ppb
-47M	Pest mix	50 ↓
160563	Hexane (Fish)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123760	JC20937-3	9H273	Ford TCL		19				Not usd	Need MA
	761	JC20936-5				20				Not usd	
	762	JC20937-1				21		/	/	OK	
	763	-2				22		/	/	OK	
	764	LA 20965-9	9H349	PPL		23	20	/	/	OK	
	765	CC3988-50				4				not using	RR w/ better CC
	766	IB				3				↓	↓
	767	JC20888-1	9H273			24					
	768	-2				25					
	769	-3				26					
	770	JC20936-4				27					
	771	Hexane				28					
	↓ 778	Hexane				29					
											KD 6/2

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 JC21229

11.7.3 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4002

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/2/16

Columns: ZBCLPI | ZBCLPII

Method 8081, 608

Initial Cal. Method 1PST 3988

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 161933-09	IB	20 ppb
-35	Pest IS/SD	5 ppm
-51	PEM	10-250 ppb
-44	Pest mix	25 ppb
-43	Pest Mix	50 ↓
160563	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: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	16123779	ddt				1				not using	
	780	CC3988-25				2				ng	RT Shift
	781	ib				3				not using	
	782	Pest Spike				6				RR	SV 16.1933.62
	783	ddt				1		/	/	OK	
	784	CC3988-50				4		/	/	OK	DBHC ↓ 2nd
	785	ddt HS DK 6/2				2 GRK 6/2/16		/	/	OK	
	786	Pest Spike				6		/	/	OK	OP16.1712.137A
	787	~~OP94365-MB~~ IB	OK 93 94365	608 TTO		7		/	/	OK	
	788	-BS1				8		/	/	OK	
	789	-BSD				9		/	/	OK	
	790	OP94387-MB1	94387	608		10		/	/	OK	
	791	-BS1				11		/	/	OK	
	792	-BSD				12		/	/	OK	
	793	JC 21240-1		PAL		13		/	/	OK	
	794	LA 21067-1	94405	TTO		14		/	/	OK	
	795	CC3988-25				2		/	/	OK	
	796	IB				3		/	/	OK	
	797	OP94409-MB1	94409	8081	S	15		/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.4 11

SGS ACCUTEST JC21229

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G-1G 4002

Print Analyst Name: Dhara Subaria

Date: 6/2/16

Analyst Signature:

Columns: 20CLPI | 20CLPII

Method 8081

Initial Cal. Method 1857 3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1619427-09	DB	20 ppb
-35	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-144	Pest mix	25 ppb
-143	↓	50 ↓
160863	Heptane (film)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123795	0894409-DS1	94409	8081 PPL	S	16		✓	✓	OK	
	799	JC21252-1				17				not ssrs	need TBA
	800	-6				18		✓	✓	OK	
	801	-11				19		✓	✓	OK	
	802	-16				20		✓	✓	OK	
	803	JC21253-1				21		✓	✓	OK	
	804	0894409-MS				22		✓	✓	OK	
	805	-MSD				23		✓	✓	OK	
	806	JC21253-10				24		✓	✓	OK	
	807	-19				25		✓	✓	OK	
	808	-28				26		✓	✓	OK	
	809	-37				27		✓	✓	OK	
	810	-46				28		✓	✓	OK	
	811	-55				29		✓	✓	OK	
	812	-64				30		✓	✓	OK	
	813	JC21175-3	94355	A/G-CHL		31	5	✓	✓	not vsst	not needed
R	814	JC20888-1	94273	TCL		32		✓	✓	OK	
R	815	-2		↓		33		✓	✓	OK	

JR 6/3/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.4 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4003

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/3/16

Columns: ZBCLP I / ZBCLP II

Method 8081

Initial Cal. Method IPST 3988

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161933-09	IB	20 ppb
-35	Pest ISTD	5 ppm
-51	PEM	10-250 ppb
-47A	Pest mix	25 ppb
-47B	pest mix	50 ppb
1608663	hexane (fisher)	—
161431-50	TMA SUM	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	1g123816	ddt				1		✓	✓	OK	
	817	CC3988-50				4		✓	✓	OK	
	818	ib				3		✓	✓	OK	
	819	op94431-mb1	94431	8081 TCL	W	~~4~~ 5	10 613	✓	✓	OK	
	820	op94431-bs1				~~5~~ 6	10613	✓	✓	OK	
	821	JC21229-3				6		✓	✓	OK	
	822	JC21347-3				7		✓	✓	OK	
	823	jc21252-1	94409	8081 PPL	S	8		✓	✓	OK	had TBA
	824	LA20965-21	94431	8081 TCL	W	9		✓	✓	OK	
	825	LA20965-25				10		✓	✓	OK	
	826	jc21229-4				11		✓	✓	OK	
	827	op94431-ms				12		✓	✓	OK	
	828	op94431-msd				13		✓	✓	OK	
	829	jc20936-4	94273	8081 TCL	S	14		✓	✓	OK	
	830	jc20888-3		8081 TCL		15		✓	✓	OK	
	831	jc20936-2	94273			16		✓	✓	OK	had TBA
	832	op94409-mb1	94409			17		✓	✓	OK	HAd TBA
	833	-bs1				18		✓	✓	OK	
	834	op94273-mb1	94273			19		✓	✓	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 JC21229

11.7.5 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G 4003

Print Analyst Name: Dhara Sapariya

Date: 6/3/16

Analyst Signature:

Columns: 20CLPD1 / 20CLPD

Method 8081

Initial Cal. Method 1PST 3988

Injection Volume: 1.0 ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161933-09	TB	20 ppb
-35	Pest ISTD	5 ppm
-51	PCM	10-250 ppb
-49A	Pest mix	25 ppb
-49B	Pest mix	50 ppb
160863	Hexane (Fisher)	–
161933-50	TBA std	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123835	OP94273-BS1	94273	8081 TCL	S	20		✓	✓	OK	HAS TBA
	836	JC20937-3				21		✓	✓	OK	
	837	JC20936-5				22		✓	✓	OK	RA 1.5
	838	ddt				1		✓	✓	OK	
	839	CC3988-25				2		✓	✓	OK	
	840	TB				3		✓	✓	OK	
	841	OP94405-MB1	94405	8081	W	5		✓	✓	OK	
	842	OP94314-MB1	94314	8081	W	6		✓	✓	OK	
	843	-BS1				7		✓	✓	OK	
	844	JC21002-34		GDHC		8		✓	✓	OK	
	845	CC3988-50				4		✓	✓	OK	
	846	TB				3		✓	✓	OK	
	847	OP94430-MB1	94430	8081	S	9		✓	✓	OK	
	848	-BS1				10		✓	✓	OK	
	849	-MB11				11		✓	✓	OK	
	850	JC21199-1		TCL		12		✓	✓	OK	
	851	JC21274-1		PPL		13		✓	✓	OK	
	852	-10				14		✓	✓	OK	
	853	OP94430-MS				15		✓	✓	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G1G4003

Print Analyst Name: Dhara suparia

Date: 6/3/16

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
CV 161933-04	IB	20 ppb
-35	Pest IBTD	5 ppm
-51	PCM	10-250 ppb
-47A	Pest mix	25 ppb
-47A	↓	50 ↓
160863	Hexane (Fisher)	-

Columns: ZDCLPI / ZDCLPII

Method 8081

Initial Cal. Method 1PST3988

Injection Volume: 1.0 uL

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JP Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	12123854	OP9nn30-MSD	9nn30	8081	S	16		✓	✓	OK	
	855	JC21321-1A		TCL		17		✓	✓	OK	
	856	JC21236-6				18		✓	✓	OK	
	857	-20				19				NOT USED	Need TMA
	858	-22				20		✓	✓	OK	
	859	-25				21		✓	✓	OK	
	860	-26				22				NOT USED	Need TMA
	861	RA20965-17				23		✓	✓	OK	

DK 6/6/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-08
Rev. Date: 1/19/16

11.7.5 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1799

Print Analyst Name: Rebecca Krug

Analyst Signature: RK

Date: 5/24/16

Columns: ZBCLPI / ZBCLPII

Method 8081

Initial Cal. Method 4PST1799

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.
161874-148A	pest mix 1st source	25 ppb
-148B		50
-148C		2
-148D		3
-148E		10
-148F		75
-148G		100
-148H		
081617799	mirex 2nd source	250 ppb

Standard Data

Lot #	Description	Conc.
SV161874-79	pest std	5 ppb
161935-56	PCM	10-250 ppb
161933-09	IB	20 ppb
161874-20	chlordane 1st source	10 ppb
-21	toxaphene 1st source	10 ppb
-96	chlordane second source	500 ppb
-97	toxaphene	
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:** 5/26/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g68547	ddt				1			/	ok	
	548	IB				2			/	ok	
	549A	IC1799-1	Pest Mix	1st source		3			/	ok	
	550A	-2				4			/	ok	
	551A	-5				5			/	ok	
	552A	-10				6			/	ok	
	553A	ICC1799-25				7			/	ok	
	554A	IC1799-50				8			/	ok	
	555A	-75				9			/	ok	
	556A	-100				10			/	ok	
	557A	-500	Chlordane			11			/	ok	
	558A	-500	Toxaphene			12			/	ok	
	559A	ICV1799-25	Pest Mix	2nd source		13			/	ok	lot #SV16.1874.95
	560A	-25	Mirex			14			/	ok	
	561A	-500	Chlordane			15			/	ok	
	562A	-500	Toxaphene			16			/	ok	
											RK 5/24/16

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.6 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1806

Print Analyst Name: Rebecca Krug

Analyst Signature: RK

Date: 6/2/16

Columns: ZBCLPI / ZBCLPII

Method 8081

Initial Cal. Method 4PST ~~174~~ 1799 RK 6/2/16 ②

Injection Volume: 1.0 L

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16 1933-09	IB	20 ppb
-35	Pest ISTD	5 ppm
-51	pcm	10-750 ppb
-47A	Pest mix	25 ppb
-47B	Pest mix	50 ppb
160803	rinse (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: JK Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4968814	ddt				1		/	/	OK	
	815	cc1799-50				4			/	OK	DCB ↓ 2nd
	816	IB				3		/	/	OK	
	817	Pest Spike				11				ng	SV16-1933-58
	818	JC21020-1	94298	PPL 608	W	12		/	/	OK	
	819	JC21043-1				13		/	/	OK	
	820	cc1799-25				2				NOT run	
	821	ib				3				NOT run	
	822	Pest Spike				14				NG	SV16-1933-62
	823	cc1799-25				2		/	/	OK	DCB, DDT, methoxychlor ↓ 2nd
	824	IB				3		/	/	OK	
	825	op94393-mb1	94393		S	5		/	/	OK	
	826	op94393-bs1				6		/	/	OK	
	827	jc21183-1		tcl		7		/	/	OK	
	828	LA20965-3		PPL		8		/	/	OK	
	829	JC21175-7		tcl		9		/	/	OK	
	830	JC21189-1A				10		/	/	OK	
	831	JC21223-26				11		/	/	OK	
	832	jc21223-27				12		/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.7 11

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1806

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/2/16

Columns: ZB CLPI / ZB CLPII

Method 8081

Initial Cal. Method 4PST1799

Injection Volume: 1.0 uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
161931-09	IB	20 ppb
-35	Pest IBTD	5 ppm
-51	PCBs	10-250 ppb
-44A	Pest mix	25 ppb
-44A	↓	50 ↓
160503	Hexane (Film)	–

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g168833	op94393-ms	94393		S	13		/	/	ok	
	834	op94393-msd				14		/	/	ok	
	835	jc21223-28				15		/	/	ok	
	836	jc21223-29				16		/	/	ok	
	837	jc21223-30				17				Not Run	out from source
	838	jc21223-31				18				Not Run	
	839	jc21223-32				19				Not Run	
	840	jc21177-1a				20				Not Run	
	841	jc21229-1				21				Not Run	
	842	jc21229-2				22				Not Run	
	837	Hexane				~~160~~ 5 1406				Not Run	
	838	dblt				1				ok	
	839	cc17dd-50				2				ng	PCB ↓ (>30%)
	840	IB				3			/	ok	
	841	OP94403-MB1	94403	Soil Temp	W	6				Not Using	RR BCC
	842	-B51				7				Not Using	
	843	JC21253-1A				8				Not Using	
	844	-10A				9				Not Using	
	845	-19A				10				Not Using	

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.7 11

SGS ACCUTEST JC21229

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1806

Print Analyst Name: Dhara Saparia

Date: 6/2/16

Analyst Signature:

Columns: 2ACCPI | 2ACCPII

Method 8081

Initial Cal. Method MPST 1799

Injection Volume: 1.0ul

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1614231-04	IB	20 ppb
-35	Pest IPTD	5 ppm
-51	PEM	10-250 ppb
-77A	Pest mix	25 ppm
-77B	↓	50 ↓
160863	Hexane Rinse	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JR

Date: 6/6/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	M968848	JC21253-28A	94403	8081 TCL	S	11				Not Using	RR BCC
	847	-37A				12				Not Using	
	848	-46A				13				Not Using	
	849	-55A				14				Not Using	
	850	-64A				15				Not Using	
	851	OP94403-LCS				16				Not Using	+MS
	852	-MS1D				17				Not Using	
	853	-LD29				18				Not Using	
	854	JC21223-30	94393	8081 TCL	S	19				Not Using	
	855	-31				20				Not Using	
	856	-32				21				Not Using	
	857	JC21177-1A				22				Not Using	
	858	JC21229-1				23				Not Using	
	859	-2				24				Not Using	
											KD 6/3

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Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

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SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4g 1811

Print Analyst Name: Joseph Ravino

Analyst Signature: JR

Date: ~~6/7~~ 6/6/2016 JR 6/6/2016

Columns: 2BCLPI/2BCLPII

Method 8081

Initial Cal. Method 4PST 1811

Injection Volume: 1.0 uL

Date Archived:

Standard Data

	Lot #	Description	Conc.
SV	161933-47A	Rept. mix	25 ppb
	-47B		50
SV	161874-48C		1
	-48D		2
	-48E		5
	-48F		10
	-48G		75
	-48H		100
OP	8761711299	mix 2nd source	250 ppb

Standard Data

	Lot #	Description	Conc.
SV	161933-35	Rept IsTD	5 ppm
	-51	PEM	10-250 ppb
	109	IB	20 ppb
SV	161874-20	chlordane 1st	10 ppm
	-21	Toxaphene 1st	10 ppm
	-96	chlordane 2nd	500 ppb
	-97	Toxaphene 2nd	500 ppb
	160863	Hexane (Fisher)	-
OP	161874-95	Rept mix 2nd source	250 ppb

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/7/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4g 68894	ddt				1			/	ok	
	895	IB				2			/	ok	
	896	IC 1811 - 1	1st source			3			/	ok	
	897	-2				4			/	ok	
	898	-5				5			/	ok	
	899	-10				6			/	ok	
	900	ICC1811-25				7			/	ok	
	901	IC1811-50				8			/	ok	
	902	-75				9			/	ok	
	903	-100				10			/	ok	
	904	-500				11	20		/	ok	
	905	-500				12	20		/	ok	
	906	ICV 1811 - 25	2nd source			13	10		/	ok	
	907	-25				14	10			ok	
	908	-500				15			/	ok	
	909	-500				16			/	ok	

JR 6/6/16

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-08
Rev. Date: 1/19/16

11.7.8 11

Initial Calibration Summary

Laboratory DRAFT - Not for Release

Sample: G4G1811-ICC1811
Lab FileID: 4G68900.D

Response Factor Report GC4G

Method : C:\MSDCHEM\1\METHODS\4PST1811.M (ChemStation Integrator)
Title : PEST/PCB
Last Update : Mon Jun 06 16:59:12 2016
Response via : Initial Calibration

Calibration Files
1 =4g68896.D 2 =4g68897.D 5 =4g68898.D 10 =4g68899.D
25 =4g68900.D 50 =4g68901.D 75 =4g68902.D 100 =4g68903.D

Compound	2	5	10	25	50	100	1	75	Avg	%RSD
1) I 1-bromo-2-nitrobenzen	----------ISTD----------									
2) Tetrachloro-	0.894	0.884	0.869	0.864	0.861	0.852		0.854	0.868	1.82
3) alpha-BHC	1.154	1.162	1.171	1.178	1.258	1.279	1.248	1.270	1.215	4.41
4) gamma-BHC	1.060	1.076	1.085	1.077	1.149	1.156	1.108	1.151	1.108	3.51
5) Heptachlor	1.055	1.070	1.040	1.029	1.092	1.096	1.148	1.091	1.078	3.49
6) beta-BHC	0.508	0.520	0.520	0.496	0.511	0.494	0.558	0.498	0.513	4.05
7) delta-BHC	0.985	1.044	1.022	1.038	1.125	1.139	1.067	1.129	1.069	5.31
8) Aldrin	0.991	1.000	0.984	0.975	1.030	1.037	1.058	1.029	1.013	2.91
9) Heptachlor E	0.961	0.932	0.932	0.904	0.938	0.927	1.059	0.932	0.948	5.00
10) gamma-Chlord	0.947	0.981	0.933	0.911	0.938	0.932	1.092	0.938	0.959	5.97
11) alpha-Chlord	0.946	0.946	0.900	0.889	0.913	0.908	1.041	0.915	0.932	5.19
12) Endosulfan I	0.905	0.934	0.895	0.886	0.911	0.908	0.917	0.915	0.909	1.57
13) 4,4'-DDE	0.896	0.910	0.879	0.875	0.912	0.915	0.922	0.918	0.903	2.00
14) Dieldrin	0.932	0.932	0.921	0.917	0.965	0.961	1.084	0.959	0.959	5.60
15) Endrin	0.808	0.837	0.812	0.813	0.850	0.845	0.909	0.843	0.839	3.89
16) 4,4'-DDD	0.748	0.737	0.722	0.743	0.771	0.766	0.795	0.767	0.756	3.06
17) Endosulfan I	0.861	0.855	0.823	0.834	0.857	0.847	0.912	0.853	0.855	3.06
18) 4,4'-DDT	0.729	0.726	0.729	0.729	0.768	0.791	0.777	0.790	0.755	3.88
19) Endrin Aldeh	0.662	0.705	0.672	0.665	0.684	0.660	0.737	0.666	0.681	3.96
20) Endosulfan S	0.807	0.772	0.744	0.719	0.739	0.719	0.798	0.728	0.753	4.62
21) Methoxychlor	0.423	0.419	0.410	0.394	0.407	0.394	0.420	0.401	0.408	2.83
22) Mirex	0.734	0.739	0.710	0.663	0.659	0.630	0.749	0.645	0.691	6.81
23) Endrin Keton	0.859	0.874	0.855	0.838	0.863	0.844	0.994	0.848	0.872	5.82
24) Decachlorobi	0.775	0.778	0.771	0.727	0.728	0.699	0.831	0.704	0.752	5.97
25) I 1-bromo-2-nitrobenzen	----------ISTD----------									
26) Toxaphene{A}					0.017				0.017	0.00
27) Toxaphene{B}					0.043				0.043	0.00
28) Toxaphene{C}					0.034				0.034	0.00
29) Toxaphene{D}					0.027				0.027	0.00
30) Toxaphene{E}					0.030				0.030	0.00
31) I 1-bromo-2-nitrobenzen	----------ISTD----------									
32) Chlordane {A					0.031				0.031	0.00
33) Chlordane {B					0.038				0.038	0.00
34) Chlordane {C					0.127				0.127	0.00
35) Chlordane {D					0.195				0.195	0.00
36) Chlordane {E					0.030				0.030	0.00

Signal #2

1) I 1-bromo-2-nitrobenzen	----------ISTD----------									
2) Tetrachloro-	0.901	0.922	0.904	0.901	0.904	0.917	0.940	0.915	0.913	1.49
3) alpha-BHC	1.215	1.221	1.243	1.294	1.365	1.414	1.210	1.396	1.295	6.60
4) gamma-BHC	1.220	1.140	1.142	1.170	1.229	1.264	1.245	1.249	1.208	4.10

SGS ACCUTEST JC21229

Initial Calibration Summary

Sample: G4G1811-ICC1811
Lab FileID: 4G68900.D

Laboratory DRAFT - Not for Release

5)	Heptachlor	1.153	1.167	1.133	1.171	1.207	1.239	1.140	1.224	1.179	3.36
6)	beta-BHC	0.591	0.543	0.535	0.522	0.535	0.533	0.626	0.534	0.552	6.58
7)	delta-BHC	1.046	1.067	1.073	1.130	1.180	1.225	1.027	1.199	1.118	6.77
8)	Aldrin	1.154	1.097	1.096	1.094	1.133	1.166	1.313	1.153	1.151	6.23
9)	Heptachlor E	0.960	0.983	0.953	0.983	1.007	1.015	0.929	1.012	0.980	3.16
10)	gamma-Chlord	0.982	0.992	0.958	0.970	0.998	1.013	0.975	1.007	0.987	1.94
11)	alpha-Chlord	1.000	0.952	0.948	0.937	0.953	0.962	0.985	0.959	0.962	2.16
12)	Endosulfan I	0.954	0.913	0.909	0.909	0.928	0.931	0.909	0.930	0.923	1.75
13)	4,4'-DDE	1.019	0.948	0.937	0.958	0.975	0.980	1.008	0.971	0.974	2.88
14)	Dieldrin	0.958	0.971	0.947	0.950	0.983	0.996	0.980	0.986	0.972	1.85
15)	Endrin	0.846	0.860	0.811	0.803	0.813	0.825	0.806	0.813	0.822	2.48
16)	4,4'-DDD	0.737	0.792	0.739	0.726	0.741	0.748	0.739	0.736	0.745	2.68
17)	Endosulfan I	0.868	0.860	0.830	0.787	0.810	0.808	0.858	0.795	0.827	3.84
18)	4,4'-DDT	0.667	0.730	0.682	0.682	0.702	0.730	0.707	0.720	0.702	3.39
19)	Endrin Aldeh	0.622	0.652	0.615	0.616	0.610	0.601	0.637	0.600	0.619	2.88
20)	Endosulfan S	0.670	0.675	0.650	0.635	0.632	0.623	0.648	0.627	0.645	3.00
21)	Methoxychlor	0.344	0.337	0.327	0.331	0.329	0.328	0.320	0.330	0.331	2.14
22)	Mirex	0.508	0.529	0.521	0.503	0.495	0.482	0.530	0.487	0.507	3.66
23)	Endrin Keton	0.681	0.697	0.681	0.677	0.688	0.682	0.722	0.678	0.688	2.17
24)	Decachlorobi	0.542	0.498	0.495	0.486	0.488	0.485	0.508	0.479	0.498	4.03

25) I 1-bromo-2-nitrobenzen ----------ISTD----------

26)	Toxaphene{A}	0.024	0.024	0.00
27)	Toxaphene{B}	0.025	0.025	0.00
28)	Toxaphene{C}	0.045	0.045	0.00
29)	Toxaphene{D}	0.027	0.027	0.00
30)	Toxaphene{E}	0.020	0.020	0.00

31) I 1-bromo-2-nitrobenzen ----------ISTD----------

32)	Chlordane {A	0.034	0.034	0.00
33)	Chlordane {B	0.038	0.038	0.00
34)	Chlordane {C	0.130	0.130	0.00
35)	Chlordane {D	0.211	0.211	0.00
36)	Chlordane {E	0.033	0.033	0.00

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

4PST1811.M Mon Jun 06 17:13:45 2016 RPT1

11.7.8 11

4

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC4G
Method: EPA 608

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G68900.D	06/06/16 12:46	G4G1811-ICC1811	JOSEPHR
Std#2	4G68910.D	06/06/16 16:03	G4G1812-CC1811	DHARAS
Std#3	4G68921.D	06/06/16 19:48	G4G1812-CC1811	DHARAS

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
1-Bromo-2-nitrobenzene	1	ISTD	1.87	1.88	1.88	1.88	0.006	+/- 0.030 [a]
1-Bromo-2-nitrobenzene	2	ISTD	2.05	2.04	2.05	2.05	0.006	+/- 0.030 [a]
Tetrachloro-m-xylene	1	SURR	2.43	2.43	2.43	2.43	0.000	+/- 0.030 [a]
Decachlorobiphenyl	1	SURR	9.80	9.81	9.81	9.81	0.006	+/- 0.030 [a]
Tetrachloro-m-xylene	2	SURR	2.83	2.81	2.83	2.82	0.012	+/- 0.035
Decachlorobiphenyl	2	SURR	11.16	11.17	11.16	11.16	0.006	+/- 0.030 [a]
alpha-BHC	1	REG	2.90	2.91	2.90	2.90	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	1	REG	3.20	3.21	3.20	3.20	0.006	+/- 0.030 [a]
beta-BHC	1	REG	3.28	3.28	3.28	3.28	0.000	+/- 0.030 [a]
delta-BHC	1	REG	3.47	3.47	3.47	3.47	0.000	+/- 0.030 [a]
Heptachlor	1	REG	3.70	3.70	3.70	3.70	0.000	+/- 0.030 [a]
Aldrin	1	REG	4.04	4.04	4.04	4.04	0.000	+/- 0.030 [a]
Heptachlor epoxide	1	REG	4.76	4.77	4.76	4.76	0.006	+/- 0.030 [a]
gamma-Chlordane	1	REG	4.93	4.93	4.93	4.93	0.000	+/- 0.030 [a]
alpha-Chlordane	1	REG	5.10	5.11	5.10	5.10	0.006	+/- 0.030 [a]
4,4'-DDE	1	REG	5.21	5.22	5.21	5.21	0.006	+/- 0.030 [a]
Endosulfan-I	1	REG	5.29	5.30	5.29	5.29	0.006	+/- 0.030 [a]
Dieldrin	1	REG	5.61	5.62	5.61	5.61	0.006	+/- 0.030 [a]
Endrin	1	REG	5.94	5.95	5.94	5.94	0.006	+/- 0.030 [a]
4,4'-DDD	1	REG	6.06	6.07	6.06	6.06	0.006	+/- 0.030 [a]
Endosulfan-II	1	REG	6.27	6.28	6.27	6.27	0.006	+/- 0.030 [a]
4,4'-DDT	1	REG	6.48	6.49	6.48	6.48	0.006	+/- 0.030 [a]
Endrin aldehyde	1	REG	6.91	6.92	6.91	6.91	0.006	+/- 0.030 [a]
Methoxychlor	1	REG	7.27	7.28	7.27	7.27	0.006	+/- 0.030 [a]
Mirex	1	REG	7.42	7.43	7.42	7.42	0.006	+/- 0.030 [a]
Endosulfan sulfate	1	REG	7.61	7.62	7.61	7.61	0.006	+/- 0.030 [a]
Endrin ketone	1	REG	8.05	8.06	8.05	8.05	0.006	+/- 0.030 [a]
alpha-BHC	2	REG	3.47	3.46	3.47	3.47	0.006	+/- 0.030 [a]
gamma-BHC (Lindane)	2	REG	3.89	3.88	3.89	3.89	0.006	+/- 0.030 [a]
beta-BHC	2	REG	3.97	3.96	3.98	3.97	0.010	+/- 0.030
delta-BHC	2	REG	4.37	4.35	4.37	4.36	0.012	+/- 0.035
Heptachlor	2	REG	4.47	4.45	4.47	4.46	0.012	+/- 0.035
Aldrin	2	REG	4.92	4.90	4.92	4.91	0.012	+/- 0.035
Heptachlor epoxide	2	REG	5.73	5.72	5.73	5.73	0.006	+/- 0.030 [a]
gamma-Chlordane	2	REG	6.01	6.00	6.01	6.01	0.006	+/- 0.030 [a]
alpha-Chlordane	2	REG	6.24	6.23	6.24	6.24	0.006	+/- 0.030 [a]
Endosulfan-I	2	REG	6.34	6.32	6.33	6.33	0.010	+/- 0.030
4,4'-DDE	2	REG	6.50	6.49	6.50	6.50	0.006	+/- 0.030 [a]
Dieldrin	2	REG	6.77	6.76	6.77	6.77	0.006	+/- 0.030 [a]
Endrin	2	REG	7.27	7.26	7.27	7.27	0.006	+/- 0.030 [a]

RETENTION TIME WINDOW DETERMINATION

Instrument ID: GC4G
Method: EPA 608

	Lab FileID	Date/Time	Sample Number	Analyst
Std#1	4G68900.D	06/06/16 12:46	G4G1811-ICC1811	JOSEPHR
Std#2	4G68910.D	06/06/16 16:03	G4G1812-CC1811	DHARAS
Std#3	4G68921.D	06/06/16 19:48	G4G1812-CC1811	DHARAS

Compound	Sig#	Type	RT#1	RT#2	RT#3	Mean	Actual StdDev	Window (+ /- 3*StdDev)
4,4'-DDD	2	REG	7.45	7.44	7.45	7.45	0.006	+/- 0.030 [a]
Endosulfan-II	2	REG	7.62	7.61	7.62	7.62	0.006	+/- 0.030 [a]
4,4'-DDT	2	REG	7.98	7.97	7.98	7.98	0.006	+/- 0.030 [a]
Endrin aldehyde	2	REG	8.19	8.18	8.19	8.19	0.006	+/- 0.030 [a]
Endosulfan sulfate	2	REG	8.66	8.65	8.66	8.66	0.006	+/- 0.030 [a]
Methoxychlor	2	REG	9.22	9.21	9.22	9.22	0.006	+/- 0.030 [a]
Mirex	2	REG	9.55	9.54	9.55	9.55	0.006	+/- 0.030 [a]
Endrin ketone	2	REG	9.61	9.61	9.61	9.61	0.000	+/- 0.030 [a]

(a) Default minimum StdDev of .01 minutes employed.

SGS ACCUTEST

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G4G1813

Print Analyst Name: Kristen Drake

Analyst Signature: KD

Date: 6/7/16

Columns: ZBCLPI | ZBCLPII

Method 8081

Initial Cal. Method 4DST 1811

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16G0309	IB	20 ppb
-51	DCM	10-250 ppb
-35	Pest ISTD	500 ppm
-47A	Pest Mix	25 ppb
-47B	Pest Mix	50 ppb
161863	hexane (tolr)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 6/13/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	4265 957	JC20963-2	94371	TCL	W	30	5			OK	need 1:50
	958	ddt				1				OK	
	959	CCIFIL-50				4				OK	
	960	IB				3				OK	
	961	OP94458-MB1	94458	GOR	W	5				OK	
	962	-BS1				6				OK	
	963	-BSD				7				OK	
	964	OP94458-MB1	94458			8				OK	
	965	-BS1				9				OK	
	966	-BSD				10				OK	
	967	JC21532-1		PPL		11				OK	
	968	LA21141-2	94458	LL		12				OK	need dilution 1:5
	969	CCIFIL-25				2				OK	
	970	IB				3				OK	
	971	OP94488-MB1	94488	~~8081~~ TCL	S	13				OK	
	972	OP94488-BS1				14				OK	Report Dieldrin from 2nd
	973	JC21521-1		PPL		15				OK	
	974	OP94488-MS				16				OK	
	975	OP94488-MSD				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

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Form: OR016-08
Rev. Date: 1/19/16

11.7.9 11

LOGBOOK ID: 6-1763

Pest/PCB Extraction Log - Aqueous

Date Started: 5/29/16 Time Started: 9:00 am
Date Finished: 5/29/16 Time Finished: 6:00 pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # GC 94349 RACK# GE-500

Extracted by:	PA
Concentrated by:	PA
Vialed by:	PA
Relinquished by:	PA
Accepted by:	
Supervisor Review:	5/31/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	2	65	—	—	ok
Buchi Chiller	52	11	—	—	ok
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	OP16171211 7	400	1

WITNESS SIGN: SZ SPIKE SIGN: PA

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	SV16-1933-58	250ppb	1
PCB			

WITNESS SIGN: SZ SPIKE SIGN: PA

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162541	Fisher	150
HEXANE	160874	Fisher	50

REAGENT	LOT #	BRAND
Sodium Sulfate		
Glass Wool		
Filter Paper		
Copper	16171260	Aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	1000	clear	10		✓			
BS1				DI H2O	1000	clear	10		✓			
BSD ~~MS~~				DI H2O	1000	clear	10		✓			
MSD												
BS												
MS												
MSD												
1 JC21229-3	Pest	3		yellow	950	clear	10		✓			
2 -4		2		clear	1000	clear	10		✓			
3 JGLA20965-2		1		clear	1000	clear	10		✓			
4 -4		1		L-yellow	1000	clear	10		✓			
5 -8		1		L-yellow	1000	L-yellow	10		✓			
6 -9		1		yellow	1000	L-yellow	10		✓			
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

cis 5/29/16
1dTAT
HT up 5/31

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

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6-1750

LOGBOOK ID:

Pest / PCB Extraction Log - Soils

Date Started: 6/1/16 Time Started: 8:00 AM
Date Finished: 6/1/16 Time Finished: 3:00pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 √ Sonication SW3550C ____
Waste Dilution SW3580A ____ Soxhlet SW3540 ____

BATCH # GC 94393 RACK# PEST-24

Weighed/Extracted by: 39
Concentrated by: IK 1SZ
Vialed by: IK 1SZ
Relinquished by:
Accepted by:
Supervisor Review: 6/1/16

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 Wet Wt. (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID / Microwave ID	Final Extract Color	Final Extract Vol (mL)	Extract Cleanup H2SO4	Florisil	Cu	GPC	Comment
	MB1	Pest		Sand	15.0		/	3	Clear	10		/	/	/	
	BS1			Sand	15.0		/	3	Clear	10		/	/	/	
	JC21223-27MS		1	Soil	16.1		/	3	Yellow	10		/	/	/	
	MSD		1	Soil	15.9		/	3	Yellow	10		/	/	/	
	BS														
	MS														
	MSD														
1	LA 20965-3	Pest	1	Clay	15.1		/	3	L.Yellow	10		/	/	/	
2	JC 21183-1		1	Soil	15.4		/	3	Clear	10		/	/	/	
3	JC 21175-7		1	mud/clay	15.2	/		3	Clear	10		/	/	/	
4	JC 21189-1A		1	Soil	15.5	/		3	Clear	10		/	/	/	
5	-2A ½		2	Soil	15.5	/		3	Clear	10		/	/	/	
6	-3A ½		1	Soil	15.4	/		3	L.Yellow	10		/	/	/	
7	JC 21223-26		1	Soil	15.7		/	3	Yellow	10		/	/	/	
8	-27		1	Soil	15.4		/	3	Yellow	10		/	/	/	
9	-28		2	Soil	16.2		/	3	Yellow	10		/	/	/	
10	-29		2	Soil	16.2		/	3	Yellow	10		/	/	/	
11	-30		1	Soil	15.6		/	3	Yellow	10		/	/	/	
12	-31		2	Soil	15.7		/	3	Yellow	10		/	/	/	
13	-32		1	Soil	15.9		/	3	Yellow	10		/	/	/	
14	JC21177-1A		1	mud	16.0		/	3	Clear	10		/	/	/	
15	JC21229-1		1	Clay	15.1		/	3	Clear	10		/	/	/	
16	-2		1	Sand	15.7		/	3	Clear	10		/	/	/	
17															
18															
19															
20															

3dTAT

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)	3.4	65.65	N/A	N/A	OK, OK
Buchi Chiller	B3, B4	11, 11	N/A	N/A	OK, OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C, LPM)	2	36	0.1	36	10 psi
Balance	B42	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB	OP 1617121 7	400	1

WITNESS SIGN: MA SPIKE SIGN: IK

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST SV	1619335 8	250ppb	1
PCB			

WITNESS SIGN: MA SPIKE SIGN: IK

SOLVENT	LOT #	BRAND	AMT (mL)
2:1 HEXANE/ ACETONE	160963 / 158571	Fisher / Fisher	30
1:1 METH CHLOR/ ACETONE			
HEXANE			

REAGENT	LOT #	BRAND
HYDROMATRIX	62771663	Agilent
SODIUM SULFATE	157117	Fisher
FILTER PAPER	96916391	Fisher
FLORISIL	S213057	Phenomenex
1:1 SULFURIC ACID		
COPPER	OP 1617121000	Aldrich

MATRIX	LOT #	BRAND
SAND	66A160113 11A	Fisher

SGS ACCUTEST INC.
Form: OP018A-05
Rev Date: 11/20/15

[redacted]

6-1765

LOGBOOK ID:

Pest/PCB Extraction Log - Aqueous

Date Started: 6/2/16 Time Started: 1802

Date Finished: 6/2/16 Time Finished: 2315

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):

Separatory Funnel: SW846 3510C/CLP/other_____

Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # GC 94431	RACK# Pest-10
Extracted by:	SD
Concentrated by:	SD,
Vialed by:	SD, GM
Relinquished by:	
Accepted by:	
Supervisor Review:	6/3/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

Sample #	Analysis Type	Sample Bottle #	pH	Sample Description	Sample Volume (mL)	Final Extract Color	Final Extract Vol(mL)	GPC	Copper	H2SO4	Florisil	Comments
MB1	Pest			DI H2O	1000	Clear	10		✓			
BS1				DI H2O	1000	clear	10		✓			
JC21347-3 MS		2		brown	955	l. yellow	10		✓			
MSD		2		brown	955	l. yellow	10		✓			
BS												
MS												
MSD												
1 JC21347-3	Pest	3		brown	910	l. yellow	10		✓			
2 LA 20965-21		1		l. yellow	940	clear	10		✓			
3 -25		1		l. yellow	950	clear	10		✓			
4 JC21229-3 rx		1		l. yellow	920	clear	10		✓			
5 -4		3		orange	890	clear	10		✓			
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Okay to split ms/msd not enough bottles.

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)	6,7	75,75	-0.5,0.1	74,75	NA
Waterbath Chiller (GPM)	B2	4	/	/	2
NEVAP (32-38°C, LPM)					

SURROGATE	LOT #	CONC (ppb)	AMT (mL)
PPCB op	1617n127	400	1

WITNESS SIGN: SD SPIKE SIGN: RF

MATRIX SPIKE	LOT #	CONC	AMT (mL)
PEST	SV161933358	250ppb	1
PCB			

WITNESS SIGN: SD SPIKE SIGN: RF

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	162641	fisher	360
HEXANE	160863	fisher	50

REAGENT	LOT #	BRAND
Sodium Sulfate	15417	fisher
Glass Wool	02Q12-2	lab
Filter Paper		
Copper op	1617120016	aldrich
Florisil		
1:1 Sulfuric Acid		
Chlorine Strips		

WITNESS SIGN: SPIKE SIGN:

Manager/Supervisor/Team Lead Approval:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: 1 day TAT due yesterday rx

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:

SGS ACCUTEST INC.
Form: OP021A-06
Rev Date: 1/13/16

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JC21229
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JC21229-1 **Analyzed:** 02-JUN-16 by KP **Method:** SM2540 G-97
ClientID: SB102 (5.5-6.5)

Wet Weight (Total)	32.78	g
Tare Weight	26.66	g
Dry Weight (Total)	31.47	g
Solids, Percent	78.6	%

Sample: JC21229-2 **Analyzed:** 02-JUN-16 by KP **Method:** SM2540 G-97
ClientID: SB102 (7-8)

Wet Weight (Total)	33.26	g
Tare Weight	26.61	g
Dry Weight (Total)	32.34	g
Solids, Percent	86.2	%