



Apex Laboratories, LLC
6700 SW Sandburg St. Tigard, Oregon 97223
503.718.2323

**Level IV Data Package for
Anchor QEA, LLC
Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores
Apex Laboratories Work Order #:
A0B0288**

The information contained in this Data Package is intended solely for the purpose of validating client sample results submitted under the associated Chain of Custody(ies). An effort has been made to remove all traceable non-client data. Any incidental inclusion of non-client data is considered privileged and confidential information. The use of this information for any purpose other than data validation is strictly prohibited, and constitutes a breach of contract.

Table of Contents
A0B0288
(page 1 of 2)

Analytical Case Narrative
Analytical Report
Sample Receipt Documentation
(Work orders, Chain of Custody & Cooler Receipt Forms)
CLP-Like Forms
Raw Data

Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data
Batch 0020348
Sequence 0B17022 (A0B0288-01)
Sequence 0B12052 (QC Only)

Calibration Data
Sequence 0A13050 (Cal ID A0A1501) DUALECD2R

Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data
Batch 0020430
Sequence 0B25044 (A0B0288-01RE1)

Calibration Data
Sequence 0B01012 (Cal ID A0B0404) DualECD8

Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data
Batch 0020423
Sequence 0B13031 (A0B0288-01RE1)
Sequence 0B14025 (QC Only)

Calibration Data
Sequence 9I06028 (Cal ID A9I1001) SV-GCMS14

Table of Contents
A0B0288
(page 2 of 2)

Conventional Chemistry Parameters
Benchsheet & Analysis Sequence Data

Total Organic Carbon- Soil (5310 B)
Batch 0020404
Sequence 0B17050 (A0B0288-01)

Calibration Data
Sequence 0A08052 (Cal ID A0A0805) TOC6

Total Solids by SM2540G
Benchsheet Data
Batch 0020362 (A0B0288-01)

Balance Checksheets
Extractions February 2020
Wet Chem February 2020

Analytical Case Narrative

Analytical Case Narrative

Client: Anchor QEA, LLC
Project: Gasco PreRD_DG 2019 – 4a-b. DOC-CAP Testing Cores
Apex Work Order Number: A0B0288

Date: 04/02/2020

This data package contains data associated with analysis of samples for the above referenced Apex work order numbers. The data package Table of Contents, along with the PDF bookmarks, allow for ease of navigation and location of items within the data deliverable.

The Sample Receipt Documentation section of this package contains sample receipt information, including sample temperature and condition of receipt documented on Cooler Receipt Form(s). Apex analyzed the samples by the methods indicated on the Chain of Custody. Any additional analyses requested are indicated on the Apex Work Order.

If any anomalies were encountered during analysis that could potentially impact data quality, sample results are qualified and/or a separate Case Narrative is included in the Analytical Report. Please refer to the Notes and Definition section of the Analytical Report(s) for Qualifier explanations, Conventions, and the Blank Policy.

Data represented in this package are in compliance with the referenced method(s), both technically and for completeness, for all conditions other than those stated above and/or noted by qualification of the reported data. The signature below verifies that the Laboratory Director or his designee has authorized release of this data package.



Estella Rieben,
Quality Systems Manager
Apex Laboratories, LLC

Analytical Report



Tuesday, March 24, 2020

Ryan Barth
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A0B0288 - Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A0B0288, which was received by the laboratory on 10/15/2019 at 10:10:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 2.4 degC Cooler #2 1.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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6700 S.W. Sandburg Street
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EPA ID: OR01039

Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores Project Number: [none] Project Manager: Ryan Barth	Report ID: A0B0288 - 03 24 20 1513
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-077SC-A-02-03-191014	A0B0288-01	Sediment	10/14/19 08:36	10/15/19 10:10

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ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-077SC-A-02-03-191014 (A0B0288-01)				Matrix: Sediment		Batch: 0020348		C-07
Aroclor 1016	ND	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	
Aroclor 1221	ND	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	
Aroclor 1232	ND	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	
Aroclor 1242	10.3	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	P-10
Aroclor 1248	ND	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	
Aroclor 1254	23.9	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	P-10
Aroclor 1260	19.3	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	P-10
Aroclor 1262	ND	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	
Aroclor 1268	ND	1.15	2.28	ug/kg dry	1	02/17/20 09:01	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 73 %</i>		<i>Limits: 43-120 %</i>		<i>1</i>	<i>02/17/20 09:01</i>	<i>EPA 8082A</i>

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ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-077SC-A-02-03-191014 (A0B0288-01RE1)				Matrix: Sediment		Batch: 0020430		C-05, H-08
2,4'-DDD	ND	3.70	3.70	ug/kg dry	1	02/25/20 13:40	EPA 8081B	R-02
2,4'-DDE	ND	3.36	3.36	ug/kg dry	1	02/25/20 13:40	EPA 8081B	
2,4'-DDT	ND	1.68	3.36	ug/kg dry	1	02/25/20 13:40	EPA 8081B	
4,4'-DDD	14.4	1.68	3.36	ug/kg dry	1	02/25/20 13:40	EPA 8081B	
4,4'-DDE	8.90	1.68	3.36	ug/kg dry	1	02/25/20 13:40	EPA 8081B	
4,4'-DDT	18.1	1.68	3.36	ug/kg dry	1	02/25/20 13:40	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>02/25/20 13:40</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>93 %</i>		<i>55-130 %</i>		<i>1</i>	<i>02/25/20 13:40</i>	<i>EPA 8081B</i>

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Darwin Thomas, Business Development Director



Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores Project Number: [none] Project Manager: Ryan Barth	Report ID: A0B0288 - 03 24 20 1513
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
PDI-077SC-A-02-03-191014 (A0B0288-01RE1)				Matrix: Sediment		Batch: 0020423		H-08	
Acenaphthene	1350	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Acenaphthylene	455	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Anthracene	389	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D	J	
Benz(a)anthracene	1960	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Benzo(a)pyrene	2500	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Benzo(b)fluoranthene	2160	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Benzo(k)fluoranthene	818	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D	M-05	
Benzo(g,h,i)perylene	2000	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Chrysene	2560	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Dibenz(a,h)anthracene	239	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D	J	
Fluoranthene	3480	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Fluorene	751	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Indeno(1,2,3-cd)pyrene	1720	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
2-Methylnaphthalene	ND	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Naphthalene	764	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Phenanthrene	4540	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
Pyrene	4150	212	425	ug/kg dry	100	02/13/20 18:48	EPA 8270D		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 44-115 %</i>		<i>100</i>	<i>02/13/20 18:48</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>89 %</i>		<i>54-127 %</i>		<i>100</i>	<i>02/13/20 18:48</i>	<i>EPA 8270D</i>	<i>S-05</i>

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ANALYTICAL SAMPLE RESULTS

Demand Parameters

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-077SC-A-02-03-191014 (A0B0288-01)				Matrix: Sediment				
Batch: 0020404								
Total Organic Carbon	1.5	---	0.020	% by Weight	1	02/17/20 19:37	SM 5310 B MOD	H-08

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Darwin Thomas, Business Development Director



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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PDI-077SC-A-02-03-191014 (A0B0288-01)				Matrix: Sediment				
Batch: 0020362								
Total Solids	58.0	1.00	1.00	% by Weight	1	02/13/20 18:27	SM 2540 G	

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020348 - EPA 3546												
Sediment												
Blank (0020348-BLK1) Prepared: 02/12/20 07:03 Analyzed: 02/12/20 16:42 C-07												
<u>EPA 8082A</u>												
Aroclor 1016	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	0.648	1.29	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr) Recovery: 94 % Limits: 43-120 % Dilution: 1x												
LCS (0020348-BS1) Prepared: 02/12/20 07:03 Analyzed: 02/12/20 16:59 C-07												
<u>EPA 8082A</u>												
Aroclor 1016	58.0	0.670	1.33	ug/kg wet	1	83.3	---	70	47-134%	---	---	
Aroclor 1260	76.4	0.670	1.33	ug/kg wet	1	83.3	---	92	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr) Recovery: 95 % Limits: 43-120 % Dilution: 1x												
Duplicate (0020348-DUP1) Prepared: 02/12/20 07:03 Analyzed: 02/12/20 17:52 C-07												
<u>QC Source Sample: Non-SDG (A0A1011-04RE1)</u>												
Aroclor 1016	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1262	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Aroclor 1268	ND	0.664	1.32	ug/kg wet	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr) Recovery: 58 % Limits: 43-120 % Dilution: 1x												
Matrix Spike (0020348-MS1) Prepared: 02/12/20 07:03 Analyzed: 02/12/20 19:38 C-07												
<u>QC Source Sample: Non-SDG (A0A1011-06RE1)</u>												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020348 - EPA 3546						Sediment						
Matrix Spike (0020348-MS1)						Prepared: 02/12/20 07:03 Analyzed: 02/12/20 19:38						C-07
QC Source Sample: Non-SDG (A0A1011-06RE1)												
EPA 8082A												
Aroclor 1016	55.0	0.665	1.32	ug/kg wet	1	82.7	ND	67	47-134%	---	---	
Aroclor 1260	72.2	0.665	1.32	ug/kg wet	1	82.7	ND	87	53-140%	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 43-120 %</i>		<i>Dilution: 1x</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020430 - EPA 3546/3640A (GPC)						Sediment						
Blank (0020430-BLK1)						Prepared: 02/13/20 11:22 Analyzed: 02/25/20 13:06						C-05
EPA 8081B												
2,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	0.909	1.82	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 61 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		94 %		55-130 %		"						
LCS (0020430-BS1)						Prepared: 02/13/20 11:22 Analyzed: 02/25/20 13:23						C-05
EPA 8081B												
2,4'-DDD	50.2	1.00	2.00	ug/kg wet	1	50.0	---	100	50-150%	---	---	
2,4'-DDE	42.9	1.00	2.00	ug/kg wet	1	50.0	---	86	50-150%	---	---	
2,4'-DDT	50.2	1.00	2.00	ug/kg wet	1	50.0	---	100	50-150%	---	---	
4,4'-DDD	54.5	1.00	2.00	ug/kg wet	1	50.0	---	109	50-150%	---	---	
4,4'-DDE	48.8	1.00	2.00	ug/kg wet	1	50.0	---	98	50-150%	---	---	
4,4'-DDT	53.4	1.00	2.00	ug/kg wet	1	50.0	---	107	50-150%	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 74 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		104 %		55-130 %		"						
Duplicate (0020430-DUP1)						Prepared: 02/13/20 11:25 Analyzed: 02/25/20 14:17						C-05, H-08
QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01RE1)												
EPA 8081B												
2,4'-DDD	ND	4.99	4.99	ug/kg dry	1	---	ND	---	---	---	30%	R-02
2,4'-DDE	ND	3.66	3.66	ug/kg dry	1	---	ND	---	---	---	30%	R-02
2,4'-DDT	ND	1.66	3.33	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDD	16.5	1.66	3.33	ug/kg dry	1	---	14.4	---	---	13	30%	
4,4'-DDE	11.2	1.66	3.33	ug/kg dry	1	---	8.90	---	---	23	30%	
4,4'-DDT	10.1	1.66	3.33	ug/kg dry	1	---	18.1	---	---	57	30%	Q-05
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 71 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		99 %		55-130 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 0020430 - EPA 3546/3640A (GPC)						Sediment							
Matrix Spike (0020430-MS1)						Prepared: 02/13/20 11:25 Analyzed: 02/25/20 14:54						C-05, H-08	
QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01RE1)													
EPA 8081B													
2,4'-DDD	89.7	3.70	3.70	ug/kg dry	1	84.0	ND	107	50-150%	---	---	R-02	
2,4'-DDE	81.1	3.36	3.36	ug/kg dry	1	84.0	ND	97	50-150%	---	---		
2,4'-DDT	70.9	1.68	3.36	ug/kg dry	1	84.0	ND	84	50-150%	---	---		
4,4'-DDD	116	1.68	3.36	ug/kg dry	1	84.0	14.4	121	50-150%	---	---		
4,4'-DDE	98.5	1.68	3.36	ug/kg dry	1	84.0	8.90	107	50-150%	---	---		
4,4'-DDT	86.7	1.68	3.36	ug/kg dry	1	84.0	18.1	82	50-150%	---	---		
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 72 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>							
<i>Decachlorobiphenyl (Surr)</i>		<i>102 %</i>		<i>55-130 %</i>		<i>"</i>							

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Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**
Project Number: [none]
Project Manager: **Ryan Barth**

Report ID:
A0B0288 - 03 24 20 1513

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020423 - EPA 3546												
Sediment												
Blank (0020423-BLK2)												
Prepared: 02/13/20 11:25 Analyzed: 02/13/20 17:13												
<u>EPA 8270D</u>												
Acenaphthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.14	2.27	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>86 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (0020423-BS1)												
Prepared: 02/13/20 11:25 Analyzed: 02/13/20 17:45												
<u>EPA 8270D</u>												
Acenaphthene	16.3	1.25	2.50	ug/kg wet	1	20.0	---	82	40-122%	---	---	
Acenaphthylene	15.6	1.25	2.50	ug/kg wet	1	20.0	---	78	32-132%	---	---	
Anthracene	14.9	1.25	2.50	ug/kg wet	1	20.0	---	75	47-123%	---	---	
Benz(a)anthracene	14.6	1.25	2.50	ug/kg wet	1	20.0	---	73	49-126%	---	---	
Benzo(a)pyrene	15.6	1.25	2.50	ug/kg wet	1	20.0	---	78	45-129%	---	---	
Benzo(b)fluoranthene	15.8	1.25	2.50	ug/kg wet	1	20.0	---	79	45-132%	---	---	
Benzo(k)fluoranthene	15.8	1.25	2.50	ug/kg wet	1	20.0	---	79	47-132%	---	---	
Benzo(g,h,i)perylene	15.0	1.25	2.50	ug/kg wet	1	20.0	---	75	43-134%	---	---	
Chrysene	16.0	1.25	2.50	ug/kg wet	1	20.0	---	80	50-124%	---	---	
Dibenz(a,h)anthracene	15.3	1.25	2.50	ug/kg wet	1	20.0	---	77	45-134%	---	---	
Fluoranthene	15.7	1.25	2.50	ug/kg wet	1	20.0	---	78	50-127%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020423 - EPA 3546												
Sediment												
LCS (0020423-BS1)												
Prepared: 02/13/20 11:25 Analyzed: 02/13/20 17:45												
Fluorene	15.4	1.25	2.50	ug/kg wet	1	20.0	---	77	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	15.1	1.25	2.50	ug/kg wet	1	20.0	---	75	45-133%	---	---	
2-Methylnaphthalene	14.5	1.25	2.50	ug/kg wet	1	20.0	---	72	38-122%	---	---	
Naphthalene	16.5	1.25	2.50	ug/kg wet	1	20.0	---	82	35-123%	---	---	
Phenanthrene	16.3	1.25	2.50	ug/kg wet	1	20.0	---	81	50-121%	---	---	
Pyrene	16.2	1.25	2.50	ug/kg wet	1	20.0	---	81	47-127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>86 %</i>		<i>54-127 %</i>		<i>"</i>						

Duplicate (0020423-DUP2)												
Prepared: 02/13/20 11:25 Analyzed: 02/13/20 19:53												
H-08												
QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01RE1)												
EPA 8270D												
Acenaphthene	1280	214	428	ug/kg dry	100	---	1350	---	---	5	30%	
Acenaphthylene	489	214	428	ug/kg dry	100	---	455	---	---	7	30%	
Anthracene	400	214	428	ug/kg dry	100	---	389	---	---	3	30%	J
Benz(a)anthracene	1850	214	428	ug/kg dry	100	---	1960	---	---	6	30%	
Benzo(a)pyrene	2490	214	428	ug/kg dry	100	---	2500	---	---	0.4	30%	
Benzo(b)fluoranthene	2170	214	428	ug/kg dry	100	---	2160	---	---	0.4	30%	
Benzo(k)fluoranthene	829	214	428	ug/kg dry	100	---	818	---	---	1	30%	M-05
Benzo(g,h,i)perylene	2030	214	428	ug/kg dry	100	---	2000	---	---	2	30%	
Chrysene	2370	214	428	ug/kg dry	100	---	2560	---	---	8	30%	
Dibenz(a,h)anthracene	256	214	428	ug/kg dry	100	---	239	---	---	7	30%	J
Fluoranthene	4250	214	428	ug/kg dry	100	---	3480	---	---	20	30%	
Fluorene	779	214	428	ug/kg dry	100	---	751	---	---	4	30%	
Indeno(1,2,3-cd)pyrene	1710	214	428	ug/kg dry	100	---	1720	---	---	0.6	30%	
2-Methylnaphthalene	ND	214	428	ug/kg dry	100	---	ND	---	---	---	30%	
Naphthalene	577	214	428	ug/kg dry	100	---	764	---	---	28	30%	
Phenanthrene	5300	214	428	ug/kg dry	100	---	4540	---	---	15	30%	
Pyrene	4910	214	428	ug/kg dry	100	---	4150	---	---	17	30%	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 78 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 100x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>89 %</i>		<i>54-127 %</i>		<i>"</i>						

Matrix Spike (0020423-MS2)												
Prepared: 02/13/20 11:25 Analyzed: 02/14/20 14:13												
H-08												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020423 - EPA 3546						Sediment						
Matrix Spike (0020423-MS2)						Prepared: 02/13/20 11:25 Analyzed: 02/14/20 14:13						H-08
QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01RE1)												
EPA 8270D												
Acenaphthene	1340	212	423	ug/kg dry	100	33.9	1350	-20	40-122%	---	---	Q-11
Acenaphthylene	370	212	423	ug/kg dry	100	33.9	455	-251	32-132%	---	---	Q-11, J
Anthracene	436	212	423	ug/kg dry	100	33.9	389	139	47-123%	---	---	Q-11
Benz(a)anthracene	1070	212	423	ug/kg dry	100	33.9	1960	-2630	49-126%	---	---	Q-11
Benzo(a)pyrene	1360	212	423	ug/kg dry	100	33.9	2500	-3370	45-129%	---	---	Q-11
Benzo(b)fluoranthene	1230	212	423	ug/kg dry	100	33.9	2160	-2750	45-132%	---	---	Q-11
Benzo(k)fluoranthene	457	212	423	ug/kg dry	100	33.9	818	-1060	47-132%	---	---	Q-11
Benzo(g,h,i)perylene	1160	212	423	ug/kg dry	100	33.9	2000	-2460	43-134%	---	---	Q-11
Chrysene	1410	212	423	ug/kg dry	100	33.9	2560	-3400	50-124%	---	---	Q-11
Dibenz(a,h)anthracene	ND	212	423	ug/kg dry	100	33.9	239	-705	45-134%	---	---	Q-11
Fluoranthene	3250	212	423	ug/kg dry	100	33.9	3480	-687	50-127%	---	---	Q-11
Fluorene	793	212	423	ug/kg dry	100	33.9	751	124	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	998	212	423	ug/kg dry	100	33.9	1720	-2130	45-133%	---	---	Q-11
2-Methylnaphthalene	212	212	423	ug/kg dry	100	33.9	ND		38-122%	---	---	Q-11, J
Naphthalene	723	212	423	ug/kg dry	100	33.9	764	-123	35-123%	---	---	Q-11
Phenanthrene	4740	212	423	ug/kg dry	100	33.9	4540	575	50-121%	---	---	Q-11
Pyrene	3440	212	423	ug/kg dry	100	33.9	4150	-2090	47-127%	---	---	Q-11
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 78 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 100x</i>						S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>88 %</i>		<i>54-127 %</i>		<i>"</i>						S-05

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QUALITY CONTROL (QC) SAMPLE RESULTS

Demand Parameters

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020404 - PSEP-5310B TOC						Soil						
Blank (0020404-BLK1)			Prepared: 02/12/20 18:30 Analyzed: 02/17/20 19:16									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	ND	---	0.020	% by Weight	1	---	---	---	---	---	---	
LCS (0020404-BS1)			Prepared: 02/12/20 18:30 Analyzed: 02/17/20 19:26									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	9700	---		mg/kg	1	10000	---	97	90-110%	---	---	
Duplicate (0020404-DUP1)			Prepared: 02/12/20 18:30 Analyzed: 02/17/20 19:48									
<u>QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01)</u>												
<u>SM 5310 B MOD</u>												
Total Organic Carbon	1.5	---	0.020	% by Weight	1	---	1.5	---	---	2	20%	H-08
Duplicate (0020404-DUP2)			Prepared: 02/12/20 18:30 Analyzed: 02/17/20 19:59									
<u>QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01)</u>												
<u>SM 5310 B MOD</u>												
Total Organic Carbon	1.6	---	0.020	% by Weight	1	---	1.5	---	---	4	20%	H-08

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Apex Laboratories, LLC

6700 S.W. Sandburg Street
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020362 - Total Solids (SM2540G/PSEP)						Sediment						
Duplicate (0020362-DUP1)						Prepared: 02/12/20 10:33 Analyzed: 02/13/20 18:27						
<u>QC Source Sample: PDI-077SC-A-02-03-191014 (A0B0288-01)</u>												
<u>SM 2540 G</u>												
Total Solids	57.9	1.00	1.00	% by Weight	1	---	58.0	---	---	0.2	10%	

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SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020348							
A0B0288-01	Sediment	EPA 8082A	10/14/19 08:36	02/12/20 15:32	30.14g/2mL	30g/2mL	1.00

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020430							
A0B0288-01RE1	Sediment	EPA 8081B	10/14/19 08:36	02/13/20 11:22	10.27g/10mL	10g/5mL	1.95

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D (Scan)

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020423							
A0B0288-01RE1	Sediment	EPA 8270D	10/14/19 08:36	02/13/20 11:25	10.15g/5mL	10g/5mL	0.99

Demand Parameters

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020404							
A0B0288-01	Sediment	SM 5310 B MOD	10/14/19 08:36	02/12/20 18:30			NA

Solid and Moisture Determinations

Prep: Total Solids (SM2540G/PSEP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020362							
A0B0288-01	Sediment	SM 2540 G	10/14/19 08:36	02/12/20 10:33			NA

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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**

Project Number: [none]

Project Manager: **Ryan Barth**

Report ID:

A0B0288 - 03 24 20 1513

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-05** Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- H-08** Sample hold time extended by freezing at -18 degrees C. Total time at 4 degrees C was less than the standard hold time.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- P-10** Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-11** Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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Darwin Thomas, Business Development Director

04/07/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 24 of 731



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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.
 - "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
 - "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
 - " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

<u>Anchor QEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</u> Project Number: [none] Project Manager: Ryan Barth	Report ID: A0B0288 - 03 24 20 1513
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LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores**

Project Number: [none]

Project Manager: **Ryan Barth**

Report ID:

A0B0288 - 03 24 20 1513

A0B0288
AGJ0594

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: Delaney Peterson (360-715-2707) Project: Gasco PDI Client: NW Natural
1605 Cornwell Avenue, Bellingham, WA 98225

COC ID: APEX1-20191014-145320
Sample Custodian: CO, SN, BJ, DL
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab OC#	Test Request	Method	TAT**	Preservative
011	PDI-026SC-A-10-11-191014	N	SE	10/14/2019	11:01	1		Archive (APEX)	ARCHIVE	-1	-10°C
012	PDI-026SC-B-00-02-191014	N	SE	10/14/2019	11:04	1		Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-026SC-B-02-04-191014	N	SE	10/14/2019	11:05	1		Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-026SC-B-04-06-191014	N	SE	10/14/2019	11:05	1		Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-026SC-B-06-08-191014	N	SE	10/14/2019	11:06	1		Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-077SC-A-00-01-191014	N	SE	10/14/2019	8:36	1		Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-077SC-A-01-02-191014	N	SE	10/14/2019	8:36	1		Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-077SC-A-02-03-191014	N	SE	10/14/2019	8:36	1		Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-077SC-A-03-04-191014	N	SE	10/14/2019	8:36	1		Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-077SC-A-04-05-191014	N	SE	10/14/2019	8:36	1		Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-077SC-A-05-06-191014	N	SE	10/14/2019	8:36	1		Archive (APEX)	ARCHIVE	-1	-10°C

Signature: [Signature] Date: 10/15/19
Print Name: ELLIOTT JOHNSON
Company: APEX LABS
Date/Time: 10/15/19 08:55

Signature: [Signature] Date: 10/14/2019
Print Name: [Name]
Company: [Company]
Date/Time: [Date/Time]

Signature: [Signature] Date: 10/14/2019
Print Name: [Name]
Company: [Company]
Date/Time: [Date/Time]

* Lab OC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Primary Driver of Custody

Date Printed: 10/14/2019

Apex Laboratories

Darwin Thomas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Anchor QEA, LLC 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores Project Number: [none] Project Manager: Ryan Barth	Report ID: A0B0288 - 03 24 20 1513
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APEX LABS COOLER RECEIPT FORM A0B0288

Client: Anchor QEA Element WO#: A9 J0594

Project/Project #: Gasco PDI Archive

Delivery Info:
Date/time received: 10/15/19 @ 1010 By: ES
Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/15/19 @ 1055 By: EJ

Chain of Custody included? Yes No Custody seals? Yes No
Signed/dated by client? Yes No
Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.4</u>	<u>1.3</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

Cooler out of temp? (Y/N) Possible reason why: _____
If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA
Out of temperature samples form initiated? Yes/No/NA _____

Samples Inspection: Date/time inspected: 10/16/19 @ 2148 By: AKK

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No NA

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA
Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
Comments: _____

Additional information:

Labeled by: AKK Witness: TJZ Cooler Inspected by: CFH See Project Contact Form: Y

Darwin Thomas

**Sample Receipt Documentation
(Work orders, Chain of Custody & Cooler Receipt Forms)**

A0B0288

Apex Laboratories

Client: Anchor QEA, LLC **Project Manager:** Darwin Thomas
Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing **Project Number:** [none]

Report To:
 Anchor QEA, LLC
 Ryan Barth
 6720 SW Macadam Ave. Suite 125
 Portland, OR 97219
 Phone: (503) 670-1108
 Fax: na

Invoice To:
 Anchor QEA, LLC Seattle
 Accounts Payable
 1201 3rd Avenue, Suite 2600
 Seattle, WA 98101
 Phone : (206) 287-9130
 Fax: (206) 287-9131

Date Due: 02/25/20 17:00 (90 day TAT)
 Received By: Eli S. Joyner Date Received: 10/15/19 10:10
 Logged In By: Susan L. Treat Date Logged In: 02/11/20 13:01

Cooler #1 received at 2.4°C									
Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								
Cooler #2 received at 1.3°C									
Custody Seals	Yes	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
A0B0288-01 PDI-077SC-A-02-03-191014 [Sediment] Sampled 10/14/19 08:36 (GMT-08:00) Pacific Time (US & Canada) 2 Containers				A9J0594-18
Dry Weight				
Dry Weight	02/25/20 17:00	3	04/11/20 08:36	Use Results from TS.. Make NR once completed.
Project Mgmt				
Data Package	03/24/20 17:00	20	01/21/20 08:36	
Semivols (ECD)				
8081B 2,4+4,4-DDx Only (+Add)	02/25/20 17:00	10	10/28/19 08:36	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	02/25/20 17:00	10	10/13/20 08:36	+1262,1268
Semivols (Scan)				
8270D LL PAH Only (Scan)	02/25/20 17:00	10	10/28/19 08:36	
Wet Chem				
Solids, Total (SM 2540 G,B)	02/25/20 17:00	10	04/11/20 08:36	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	02/25/20 17:00	10	11/11/19 08:36	

Reviewed By _____

Date _____

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0B0288
 A9J0594

POC: Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
 Client: NW Natural

COC ID: APEX1-20191014-145320
 Sample Custodian: CO, SN, BJ, DL
 Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
011	PDI-026SC-A-10-11-191014	N	SE	10/14/2019	11:01	1	<input type="checkbox"/>				
012	PDI-026SC-B-00-02-191014	N	SE	10/14/2019	11:04	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-026SC-B-02-04-191014	N	SE	10/14/2019	11:05	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-026SC-B-04-06-191014	N	SE	10/14/2019	11:05	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-026SC-B-06-08-191014	N	SE	10/14/2019	11:06	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-077SC-A-00-01-191014	N	SE	10/14/2019	8:36	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-077SC-A-01-02-191014	N	SE	10/14/2019	8:36	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-077SC-A-02-03-191014	N	SE	10/14/2019	8:36	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-077SC-A-03-04-191014	N	SE	10/14/2019	8:36	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-077SC-A-04-05-191014	N	SE	10/14/2019	8:36	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-077SC-A-05-06-191014	N	SE	10/14/2019	8:36	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Print Name: C. OTERO	Print Name: Eli Joyner	Print Name:	Print Name:	Print Name:	Print Name:
Company: AQ	Company: APEX LABS	Company:	Company:	Company:	Company:
Date/Time: 10/15/19 0955	Date/Time: 10/15/19 1010	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Date Printed: 10/14/2019

APEX LABS COOLER RECEIPT FORM

A0B0288

Client: Anchor QEA

Element WO#: A9 J0594

Project/Project #: Gasco PDI Archive

Delivery Info:

Date/time received: 10/15/19 @ 1010 By: EJ

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/15/19 @ 1055 By: EJ

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.4</u>	<u>1.3</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

Cooler out of temp? (Y/N) Possible reason why: _____
If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 10/16/19 @ 2148 By: AKK

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No NA

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: _____

Additional information: _____

Labeled by: AKK Witness: AKK Cooler Inspected by: CAF See Project Contact Form: Y

CLP-Like Forms

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8082A

ANALYSES DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:

PDI-077SC-A-02-03-191014

Lab Sample Id:

A0B0288-01

Matrix

Sediment

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

3/26/2020 12:24PM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Aroclor 1016	0.670	1.33	ug/kg
Aroclor 1221	0.670	1.33	ug/kg
Aroclor 1232	0.670	1.33	ug/kg
Aroclor 1242	0.670	1.33	ug/kg
Aroclor 1248	0.670	1.33	ug/kg
Aroclor 1254	0.670	1.33	ug/kg
Aroclor 1260	0.670	1.33	ug/kg
Aroclor 1262	0.670	1.33	ug/kg
Aroclor 1268	0.670	1.33	ug/kg

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-077SC-A-02-03-191014

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A0B0288-01</u>	File ID: <u>ECD2R004.D</u>
Sampled: <u>10/14/19 08:36</u>	Prepared: <u>02/12/20 15:32</u>	Analyzed: <u>02/17/20 09:01</u>
Solids: <u>57.96</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>30.14 g / 2 mL</u>
Batch: <u>0020348</u>	Sequence: <u>0B17022</u>	Calibration: <u>A0A1501</u>
		Instrument: <u>DUALECD2R</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.15	U
11104-28-2	Aroclor 1221	1	1.15	U
11141-16-5	Aroclor 1232	1	1.15	U
53469-21-9	Aroclor 1242	1	10.3	
12672-29-6	Aroclor 1248	1	1.15	U
11097-69-1	Aroclor 1254	1	23.9	
11096-82-5	Aroclor 1260	1	19.3	
37324-23-5	Aroclor 1262	1	1.15	U
11100-14-4	Aroclor 1268	1	1.15	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	28.6	21.0	73	43 - 120	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Batch: 0020348

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020348-BLK1	ECD2R004.D	02/12/20 07:03	
LCS	0020348-BS1	ECD2R005.D	02/12/20 07:03	
PDI-077SC-A-02-03-191014	A0B0288-01	ECD2R004.D	02/12/20 15:32	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix: Sediment Laboratory ID: 0020348-BLK1 File ID: ECD2R004.D
Prepared: 02/12/20 07:03 Preparation: EPA 3546 Initial/Final: 31 g / 2 mL
Analyzed: 02/12/20 16:42 Instrument: DUALECD2R
Batch: 0020348 Sequence: 0B12052 Calibration: A0A1501

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
12674-11-2	Aroclor 1016	0.648	U
11104-28-2	Aroclor 1221	0.648	U
11141-16-5	Aroclor 1232	0.648	U
53469-21-9	Aroclor 1242	0.648	U
12672-29-6	Aroclor 1248	0.648	U
11097-69-1	Aroclor 1254	0.648	U
11096-82-5	Aroclor 1260	0.648	U
37324-23-5	Aroclor 1262	0.648	U
11100-14-4	Aroclor 1268	0.648	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	16.1	15.2	94	43 - 120	

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Matrix: Sediment

Batch: 0020348

Laboratory ID: 0020348-BS1

Preparation: EPA 3546

Initial/Final: 30 g / 2 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (* = Out)	QC LIMITS REC.
Aroclor 1016	83.3	58.0	70	47 - 134
Aroclor 1260	83.3	76.4	92	53 - 140

* = Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0A13050</u>	Instrument: <u>DUALECD2R</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0A1501</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0A13050-ICB1	ECD2R004.D	01/13/20 17:15
Cal Standard	0A13050-CAL1	ECD2R005.D	01/13/20 17:33
Cal Standard	0A13050-CAL2	ECD2R006.D	01/13/20 17:50
Cal Standard	0A13050-CAL3	ECD2R007.D	01/13/20 18:08
Cal Standard	0A13050-CAL4	ECD2R008.D	01/13/20 18:25
Cal Standard	0A13050-CAL5	ECD2R009.D	01/13/20 18:43
Cal Standard	0A13050-CAL6	ECD2R010.D	01/13/20 19:01
Cal Standard	0A13050-CAL7	ECD2R011.D	01/13/20 19:18
Initial Cal Check	0A13050-ICV1	ECD2R013.D	01/13/20 19:54
Cal Standard	0A13050-CAL8	ECD2R014.D	01/13/20 20:11
Cal Standard	0A13050-CAL9	ECD2R015.D	01/13/20 20:29
Cal Standard	0A13050-CALA	ECD2R016.D	01/13/20 20:46
Cal Standard	0A13050-CALB	ECD2R017.D	01/13/20 21:04
Cal Standard	0A13050-CALC	ECD2R018.D	01/13/20 21:22
Cal Standard	0A13050-CALD	ECD2R019.D	01/13/20 21:39
Cal Standard	0A13050-CALE	ECD2R020.D	01/13/20 21:57
Initial Cal Check	0A13050-ICV2	ECD2R021.D	01/13/20 22:15
Initial Cal Check	0A13050-ICV3	ECD2R022.D	01/13/20 22:32
Initial Cal Check	0A13050-ICV4	ECD2R023.D	01/13/20 22:50
Initial Cal Check	0A13050-ICV5	ECD2R025.D	01/14/20 08:02

Note: Client samples are listed only if they are included in this report.
 Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0B12052

Instrument: DUALECD2R

Matrix: Sediment

Calibration: A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B12052-CCV1	ECD2R002.D	02/12/20 16:07
Calibration Blank	0B12052-CCB1	ECD2R003.D	02/12/20 16:24
Blank	0020348-BLK1	ECD2R004.D	02/12/20 16:42
LCS	0020348-BS1	ECD2R005.D	02/12/20 16:59
Calibration Check	0B12052-CCV2	ECD2R016.D	02/12/20 20:13
Calibration Blank	0B12052-CCB2	ECD2R017.D	02/12/20 20:31

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0B17022

Instrument: DUALECD2R

Matrix: Sediment

Calibration: A0A1501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B17022-CCV1	ECD2R002.D	02/17/20 07:56
Calibration Blank	0B17022-CCB1	ECD2R003.D	02/17/20 08:13
PDI-077SC-A-02-03-191014	A0B0288-01	ECD2R004.D	02/17/20 09:01
Calibration Check	0B17022-CCV2	ECD2R013.D	02/17/20 11:39
Calibration Blank	0B17022-CCB2	ECD2R014.D	02/17/20 11:57

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0A1501

Date: 01/15/20 08:26

Instrument: DUALECD2R

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aroclor 1016		Ave						20	
Aroclor 1221		Ave						20	
Aroclor 1232		Ave						20	
Aroclor 1242		Ave						20	
Aroclor 1248		Ave						20	
Aroclor 1254		Ave						20	
Aroclor 1260		Ave						20	
Aroclor 1262		Ave						20	
Aroclor 1268		Ave						20	
Decachlorobiphenyl (Surr)	111223.7	Ave	7.396349	10.55114	1.281006E-02			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Te

Calibration: A0A1501

Instrument: DUALECD2R

Calibration Date: 01/15/20 08:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)	20	7263.95	50	6876.42	100	6397.28	200	5954.215	500	5671.72	1000	5624.087
1016 (2)	20	12472.9	50	11959.92	100	11426.6	200	11672.72	500	10968.62	1000	11025.44
1016 (3)	20	5801.75	50	5801.38	100	5369.91	200	5336.32	500	5077.81	1000	5145.954
1016 (4)	20	5870.45	50	5570.68	100	5194.09	200	4909.52	500	4406.78	1000	4338.878
1016 (5)	20	6568.75	50	6158.62	100	5693.13	200	5381.97	500	5073.978	1000	5224.293
1016 (6)	20	6760.6	50	6310.16	100	5881.35	200	5800.32	500	5147.766	1000	5149.713
Aroclor 1016	20	θ	50	θ	100	θ	200	θ	500	θ	1000	θ
1260 (1)	20	11821.5	50	10819.18	100	10604.65	200	10466.11	500	10161.83	1000	10123.09
1260 (2)	20	14049.55	50	13128.22	100	13214.6	200	12556.99	500	12304.63	1000	12298.76
1260 (3)	20	14118	50	13483.44	100	13273.38	200	13721.19	500	13080.06	1000	12961.67
1260 (4)	20	20729.65	50	20959.06	100	20510.63	200	21259.37	500	20993.46	1000	21886.59
1260 (5)	20	12895.05	50	12167.28	100	12204.07	200	12359.45	500	12141.69	1000	12074.36
1260 (6)	20	5118.75	50	5238.06	100	4788.51	200	5044.68	500	4784.452	1000	4594.659
Aroclor 1260	20	θ	50	θ	100	θ	200	θ	500	θ	1000	θ
Decachlorobiphenyl (Surr)	10	107063.8	25	110239.3	50	107929.1	100	108917.2	250	100873.3	500	117191.4

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Te

Calibration: A0A1501

Instrument: DUALECD2R

Matrix:

Calibration Date: 01/15/20 08:26

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1016 (1)	1500	5486.193										
1016 (2)	1500	10563.24										
1016 (3)	1500	4962.429										
1016 (4)	1500	4294.934										
1016 (5)	1500	4717.885										
1016 (6)	1500	4938.143										
Aroclor 1016	1500	ϕ										
1254 (1)											500	8473.848
1254 (2)											500	13909.83
1254 (3)											500	15174.34
1254 (4)											500	10916.49
1254 (5)											500	11248.66
1254 (6)											500	3527.182
Aroclor 1254											500	ϕ
1260 (1)	1500	9698.7										
1260 (2)	1500	11784.49										
1260 (3)	1500	12190.36										
1260 (4)	1500	21728.56										
1260 (5)	1500	11801.18										
1260 (6)	1500	4590.586										
Aroclor 1260	1500	ϕ										
Decachlorobiphenyl (Surr)	800	126351.8	200	ϕ	200	ϕ	200	ϕ	200	ϕ	200	ϕ

INITIAL CALIBRATION DATA (Continued)

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Te

Calibration: AOA1501

Instrument: DUALECD2R

Matrix:

Calibration Date: 01/15/20 08:26

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
1262 (1)	500	10571.7										
1262 (2)	500	15277.51										
1262 (3)	500	12804.2										
1262 (4)	500	27524.62										
1262 (5)	500	16419.55										
1262 (6)	500	7200.532										
Aroclor 1262	500	θ										
Decachlorobiphenyl (Surr)	200	θ	200	θ								

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco PreRD DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID: DUALECD2R Calibration: A0A1501
Lab File ID: ECD2R013.D
Sequence: 0A13050 Inject Date: 01/13/20
Lab Sample ID: 0A13050-ICV1 Inject Time: 19:54

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	472	-5.6	70 - 130
Aroclor 1260	500	503	0.5	70 - 130
Decachlorobiphenyl (Surr)	200	187	-6.4	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco PreRD DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID: DUALECD2R Calibration: A0A1501
Lab File ID: ECD2R021.D
Sequence: 0A13050 Inject Date: 01/13/20
Lab Sample ID: 0A13050-ICV2 Inject Time: 22:15

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	923	-7.7	70 - 130
Aroclor 1254	500	509	1.9	70 - 130
Decachlorobiphenyl (Surr)	80.0	84.1	5.2	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco PreRD DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID: DUALECD2R Calibration: A0A1501
Lab File ID: ECD2R022.D
Sequence: 0A13050 Inject Date: 01/13/20
Lab Sample ID: 0A13050-ICV3 Inject Time: 22:32

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	513	2.6	70 - 130
Aroclor 1262	500	453	-9.4	70 - 130
Decachlorobiphenyl (Surr)	80.0	84.4	5.5	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco PreRD DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID: DUALECD2R Calibration: A0A1501
Lab File ID: ECD2R023.D
Sequence: 0A13050 Inject Date: 01/13/20
Lab Sample ID: 0A13050-ICV4 Inject Time: 22:50

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	525	5.1	70 - 130
Aroclor 1268	500	503	0.6	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Apex Laboratories SDG: Gasco PreRD DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID: DUALECD2R Calibration: A0A1501
Lab File ID: ECD2R025.D
Sequence: 0A13050 Inject Date: 01/14/20
Lab Sample ID: 0A13050-ICV5 Inject Time: 08:02

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1248	500	591	18.2	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Instrument ID: <u>DUALECD2R</u>	Calibration: <u>A0A1501</u>
Lab File ID: <u>ECD2R002.D</u>	Calibration Date: <u>01/15/20 08:26</u>
Sequence: <u>0B12052</u>	Injection Date: <u>02/12/20</u>
Lab Sample ID: <u>0B12052-CCV1</u>	Injection Time: <u>16:07</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	466				-6.8	20
Aroclor 1260	Ave	500	537				7.4	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Instrument ID: <u>DUALECD2R</u>	Calibration: <u>A0A1501</u>
Lab File ID: <u>ECD2R016.D</u>	Calibration Date: <u>01/15/20 08:26</u>
Sequence: <u>0B12052</u>	Injection Date: <u>02/12/20</u>
Lab Sample ID: <u>0B12052-CCV2</u>	Injection Time: <u>20:13</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	498				-0.4	20
Aroclor 1260	Ave	500	561				12.2	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Instrument ID: <u>DUALECD2R</u>	Calibration: <u>A0A1501</u>
Lab File ID: <u>ECD2R002.D</u>	Calibration Date: <u>01/15/20 08:26</u>
Sequence: <u>0B17022</u>	Injection Date: <u>02/17/20</u>
Lab Sample ID: <u>0B17022-CCV1</u>	Injection Time: <u>07:56</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	492				-1.7	20
Aroclor 1260	Ave	500	555				11.0	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Instrument ID: <u>DUALECD2R</u>	Calibration: <u>A0A1501</u>
Lab File ID: <u>ECD2R013.D</u>	Calibration Date: <u>01/15/20 08:26</u>
Sequence: <u>0B17022</u>	Injection Date: <u>02/17/20</u>
Lab Sample ID: <u>0B17022-CCV2</u>	Injection Time: <u>11:39</u>

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Aroclor 1016	Ave	500	483				-3.5	20
Aroclor 1260	Ave	500	560				12.0	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0A13050</u>	Instrument: <u>DUALECD2R</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0A1501</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0A13050-ICV1)			Lab File ID: ECD2R013.D		Analyzed: 01/13/20 19:54			
Decachlorobiphenyl (Surr)	200	94	70 - 130	10.551	10.55114	-0.0001	+/-1.0	
Initial Cal Check (0A13050-ICV2)			Lab File ID: ECD2R021.D		Analyzed: 01/13/20 22:15			
Decachlorobiphenyl (Surr)	80.0	105	70 - 130	10.548	10.55114	-0.0031	+/-1.0	
Initial Cal Check (0A13050-ICV3)			Lab File ID: ECD2R022.D		Analyzed: 01/13/20 22:32			
Decachlorobiphenyl (Surr)	80.0	105	70 - 130	10.549	10.55114	-0.0021	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0B12052</u>	Instrument: <u>DUALECD2R</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0A1501</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B12052-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/12/20 16:07			
Decachlorobiphenyl (Surr)	250	110	80 - 120	10.541	10.55114	-0.0101	+/-1.0	
Calibration Blank (0B12052-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/12/20 16:24			
Decachlorobiphenyl (Surr)	100	105	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
Blank (0020348-BLK1)			Lab File ID: ECD2R004.D		Analyzed: 02/12/20 16:42			
Decachlorobiphenyl (Surr)	16.1	94	43 - 120	10.54	10.55114	-0.0111	+/-1.0	
LCS (0020348-BS1)			Lab File ID: ECD2R005.D		Analyzed: 02/12/20 16:59			
Decachlorobiphenyl (Surr)	16.7	95	43 - 120	10.539	10.55114	-0.0121	+/-1.0	
Calibration Check (0B12052-CCV2)			Lab File ID: ECD2R016.D		Analyzed: 02/12/20 20:13			
Decachlorobiphenyl (Surr)	250	119	80 - 120	10.54	10.55114	-0.0111	+/-1.0	
Calibration Blank (0B12052-CCB2)			Lab File ID: ECD2R017.D		Analyzed: 02/12/20 20:31			
Decachlorobiphenyl (Surr)	100	105	43 - 120	10.538	10.55114	-0.0131	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0B17022</u>	Instrument: <u>DUALECD2R</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0A1501</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B17022-CCV1)			Lab File ID: ECD2R002.D		Analyzed: 02/17/20 07:56			
Decachlorobiphenyl (Surr)	250	109	80 - 120	10.54	10.55114	-0.0111	+/-1.0	
Calibration Blank (0B17022-CCB1)			Lab File ID: ECD2R003.D		Analyzed: 02/17/20 08:13			
Decachlorobiphenyl (Surr)	100	105	40 - 135	10.539	10.55114	-0.0121	+/-1.0	
PDI-077SC-A-02-03-191014 (A0B0288-01)			Lab File ID: ECD2R004.D		Analyzed: 02/17/20 09:01			
Decachlorobiphenyl (Surr)	28.6	73	43 - 120	10.543	10.55114	-0.0081	+/-1.0	
Calibration Check (0B17022-CCV2)			Lab File ID: ECD2R013.D		Analyzed: 02/17/20 11:39			
Decachlorobiphenyl (Surr)	250	112	80 - 120	10.539	10.55114	-0.0121	+/-1.0	
Calibration Blank (0B17022-CCB2)			Lab File ID: ECD2R014.D		Analyzed: 02/17/20 11:57			
Decachlorobiphenyl (Surr)	100	109	40 - 135	10.539	10.55114	-0.0121	+/-1.0	

HOLDING TIME SUMMARY

EPA 8082A

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-077SC-A-02-03-191014	10/14/19 08:36	10/15/19 10:10	02/12/20 15:32	121.29	365.00	02/17/20 09:01	4.73	40.00	

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GC

METHOD: EPA 8081B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Client Sample Id:

PDI-077SC-A-02-03-191014

Lab Sample Id:

A0B0288-01

Matrix

Sediment

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

3/26/2020 10:57AM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
2,4'-DDD	0.500	1.00	ug/kg
2,4'-DDD [2C]	0.500	1.00	ug/kg
2,4'-DDE	0.500	1.00	ug/kg
2,4'-DDE [2C]	0.500	1.00	ug/kg
2,4'-DDT	0.500	1.00	ug/kg
2,4'-DDT [2C]	0.500	1.00	ug/kg
4,4'-DDD	0.500	1.00	ug/kg
4,4'-DDD [2C]	0.500	1.00	ug/kg
4,4'-DDE	0.500	1.00	ug/kg
4,4'-DDE [2C]	0.500	1.00	ug/kg
4,4'-DDT	0.500	1.00	ug/kg
4,4'-DDT [2C]	0.500	1.00	ug/kg

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-077SC-A-02-03-191014

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A0B0288-01RE1</u>	File ID: <u>ECD8-02252009.D</u>
Sampled: <u>10/14/19 08:36</u>	Prepared: <u>02/13/20 11:22</u>	Analyzed: <u>02/25/20 13:40</u>
Solids: <u>57.96</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.27 g / 10 mL</u>
Batch: <u>0020430</u>	Sequence: <u>0B25044</u>	Calibration: <u>A0B0404</u> Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	3.70	U
3424-82-6	2,4'-DDE	1	3.36	U
789-02-6	2,4'-DDT	1	1.68	U
72-54-8	4,4'-DDD	1	14.4	
72-55-9	4,4'-DDE	1	8.90	
50-29-3	4,4'-DDT	1	18.1	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	84.0	59.2	70	42 - 129	
Decachlorobiphenyl (Surr) [2C]	84.0	78.2	93	55 - 130	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co

Batch: 0020430

Batch Matrix: Sediment

Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020430-BLK1	ECD8-02252007.D	02/13/20 11:22	
LCS	0020430-BS1	ECD8-02252008.D	02/13/20 11:22	
PDI-077SC-A-02-03-191014 (Dup)	0020430-DUP1	ECD8-02252011.D	02/13/20 11:25	
PDI-077SC-A-02-03-191014 (MS)	0020430-MS1	ECD8-02252013.D	02/13/20 11:25	
PDI-077SC-A-02-03-191014	A0B0288-01RE1	ECD8-02252009.D	02/13/20 11:22	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET
EPA 8081B

Laboratory: Apex Laboratories SDG: Gasco PreRD_DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C
Matrix: Sediment Laboratory ID: 0020430-BLK1 File ID: ECD8-02252007.D
Prepared: 02/13/20 11:22 Preparation: EPA 3546/3640A (GPC) Initial/Final: 11 g / 10 mL
Analyzed: 02/25/20 13:06 Instrument: DUALECD8
Batch: 0020430 Sequence: 0B25044 Calibration: A0B0404

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
53-19-0	2,4'-DDD [2C]	0.909	U
3424-82-6	2,4'-DDE [2C]	0.909	U
789-02-6	2,4'-DDT [2C]	0.909	U
72-54-8	4,4'-DDD [2C]	0.909	U
72-55-9	4,4'-DDE [2C]	0.909	U
50-29-3	4,4'-DDT [2C]	0.909	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	45.5	27.7	61	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	43.0	94	55 - 130	

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Matrix: Sediment

Batch: 0020430

Laboratory ID: 0020430-BS1

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10 g / 10 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
2,4'-DDD [2C]	50.0	50.2	100	50 - 150
2,4'-DDE [2C]	50.0	42.9	86	50 - 150
2,4'-DDT [2C]	50.0	50.2	100	50 - 150
4,4'-DDD [2C]	50.0	54.5	109	50 - 150
4,4'-DDE [2C]	50.0	48.8	98	50 - 150
4,4'-DDT [2C]	50.0	53.4	107	50 - 150

* = Values outside of QC limits

DUPLICATES

PDI-077SC-A-02-03-191014

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Matrix: Sediment

Laboratory ID: 0020430-DUP1

Batch: 0020430

Lab Source ID: A0B0288-01RE1

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10.37 g / 10 mL

Source Sample Name: PDI-077SC-A-02-03-191014

% Solids: 57.96

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
2,4'-DDD	30	3.63		ND				EPA 8081B
2,4'-DDE	30	2.81		ND				EPA 8081B
2,4'-DDT	30	1.01		ND				EPA 8081B
4,4'-DDD	30	14.4		16.5		13		EPA 8081B
4,4'-DDE	30	8.90		11.2		23		EPA 8081B
4,4'-DDT	30	18.1		10.1		57	*	EPA 8081B

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**PDI-077SC-A-02-03-191014****EPA 8081B**Laboratory: Apex LaboratoriesSDG: Gasco PreRD_DG 2019Client: Anchor QEA, LLCProject: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing CMatrix: SedimentBatch: 0020430Laboratory ID: 0020430-MS1Preparation: EPA 3546/3640A (GPC)Initial/Final: 10.27 g / 10 mLSource Sample Name: PDI-077SC-A-02-03-191014

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (* = Out)	QC LIMITS REC.
2,4'-DDD	84.0	ND	89.7	107	50 - 150
2,4'-DDE	84.0	ND	81.1	97	50 - 150
2,4'-DDT	84.0	ND	70.9	84	50 - 150
4,4'-DDD	84.0	14.4	116	121	50 - 150
4,4'-DDE	84.0	8.90	98.5	107	50 - 150
4,4'-DDT	84.0	18.1	86.7	82	50 - 150

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0B01012

Instrument: DUALECD8

Matrix: Sediment

Calibration: A0B0404

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0B01012-ICB1	ECD8-02012004.D	02/01/20 15:09
Cal Standard	0B01012-CAL1	ECD8-02012005.D	02/01/20 15:26
Cal Standard	0B01012-CAL2	ECD8-02012006.D	02/01/20 15:43
Cal Standard	0B01012-CAL3	ECD8-02012007.D	02/01/20 16:00
Cal Standard	0B01012-CAL4	ECD8-02012008.D	02/01/20 16:16
Cal Standard	0B01012-CAL5	ECD8-02012009.D	02/01/20 16:33
Cal Standard	0B01012-CAL6	ECD8-02012010.D	02/01/20 16:50
Cal Standard	0B01012-CAL7	ECD8-02012011.D	02/01/20 17:07
Cal Standard	0B01012-CAL8	ECD8-02012012.D	02/01/20 17:24
Cal Standard	0B01012-CAL9	ECD8-02012013.D	02/01/20 17:41
Initial Cal Check	0B01012-ICV1	ECD8-02012015.D	02/01/20 18:14
Cal Standard	0B01012-CALA	ECD8-02012016.D	02/01/20 18:31
Cal Standard	0B01012-CALB	ECD8-02012017.D	02/01/20 18:48
Cal Standard	0B01012-CALC	ECD8-02012018.D	02/01/20 19:05
Cal Standard	0B01012-CALD	ECD8-02012019.D	02/01/20 19:22
Cal Standard	0B01012-CALE	ECD8-02012020.D	02/01/20 19:38
Cal Standard	0B01012-CALF	ECD8-02012021.D	02/01/20 19:55
Cal Standard	0B01012-CALG	ECD8-02012022.D	02/01/20 20:12
Cal Standard	0B01012-CALH	ECD8-02012023.D	02/01/20 20:29
Cal Standard	0B01012-CALI	ECD8-02012024.D	02/01/20 20:46
Initial Cal Check	0B01012-ICV2	ECD8-02012026.D	02/01/20 21:19

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0B25044</u>	Instrument: <u>DUALECD8</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0B0404</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B25044-CCV1	ECD8-02252004.D	02/25/20 12:15
Calibration Check	0B25044-CCV2	ECD8-02252005.D	02/25/20 12:32
Calibration Blank	0B25044-CCB1	ECD8-02252006.D	02/25/20 12:49
Blank	0020430-BLK1	ECD8-02252007.D	02/25/20 13:06
LCS	0020430-BS1	ECD8-02252008.D	02/25/20 13:23
PDI-077SC-A-02-03-191014	A0B0288-01RE1	ECD8-02252009.D	02/25/20 13:40
PDI-077SC-A-02-03-191014 (Dup)	0020430-DUP1	ECD8-02252011.D	02/25/20 14:17
PDI-077SC-A-02-03-191014 (MS)	0020430-MS1	ECD8-02252013.D	02/25/20 14:54
Calibration Check	0B25044-CCV3	ECD8-02252015.D	02/25/20 15:32
Calibration Check	0B25044-CCV4	ECD8-02252016.D	02/25/20 15:49
Calibration Blank	0B25044-CCB2	ECD8-02252017.D	02/25/20 16:06
Calibration Check	0B25044-CCV5	ECD8-02252028.D	02/25/20 19:26
Calibration Check	0B25044-CCV6	ECD8-02252029.D	02/25/20 19:43
Calibration Blank	0B25044-CCB3	ECD8-02252030.D	02/25/20 20:00

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0B0404

Date: 02/04/20 14:02

Instrument: DUALECD8

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	1936798	Ave	7.793011	7.612556	1.911156E-02			20	
2,4'-DDE	2312095	Ave	5.8541	7.240444	1.864919E-02			20	
2,4'-DDT	2393139	Ave	8.040802	7.794556	2.031292E-02			20	
4,4'-DDD	2544986	Ave	9.794206	7.911667	2.608805E-02			20	
4,4'-DDE	3320795	Ave	7.444198	7.490778	2.130729E-02			20	
4,4'-DDT	2688249	Ave	8.894958	8.108667	5.399958E-03			20	
2,4,5,6-TCMX (Surr) [2C]	3449555	Ave	9.65486	5.981444	9.424963E-03			20	
Decachlorobiphenyl (Surr) [2C]	2554005	XXX	26.09001	10.53678	1.681729E-02				

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Te

Calibration: A0B0404

Instrument: DUALECD8

Calibration Date: 02/04/20 14:02

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
4,4'-DDD	0.5	2437342	1	2373048	2	2341753	5	2347446	10	2425920	25	2535112
4,4'-DDD [2C]	0.5	2238768	1	2115078	2	2175356	5	2250804	10	2275793	25	2607089
4,4'-DDE	0.5	3257902	1	2976091	2	3182040	5	3180490	10	3207276	25	3307186
4,4'-DDE [2C]	0.5	2692474	1	2684993	2	2835342	5	2971914	10	3019524	25	3470566
4,4'-DDT	0.5	2703514	1	2497592	2	2453519	5	2526530	10	2469228	25	2723898
4,4'-DDT [2C]	0.5	2721010	1	2317293	2	2367626	5	2327010	10	2513261	25	2821331
2,4,5,6-TCMX (Surr)	0.5	4020774	1	3713760	2	3604656	5	3216240	10	3303150	25	3433192
2,4,5,6-TCMX (Surr) [2C]	0.5	3614914	1	3325610	2	3232462	5	3006254	10	3188100	25	3405973
Decachlorobiphenyl (Surr)	0.5	4275962	1	3342363	2	3075353	5	2710042	10	2660587	25	2658106
Decachlorobiphenyl (Surr) [2C]	0.5	4242420	1	2619998	2	2685755	5	2248528	10	2164163	25	2160717

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Te

Calibration: A0B0404

Instrument: DUALECD8

Matrix:

Calibration Date: 02/04/20 14:02

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD							0.5	2223074	1	1934222	2	1919460
2,4'-DDD [2C]							0.5	1921738	1	1795089	2	1840073
2,4'-DDE							0.5	2580138	1	2295081	2	2244460
2,4'-DDE [2C]							0.5	2400146	1	2104301	2	2130403
2,4'-DDT							0.5	2837448	1	2374152	2	2363674
2,4'-DDT [2C]							0.5	2420264	1	2100185	2	2093643
4,4'-DDD	50	2506136	100	2976550	200	2961570						
4,4'-DDD [2C]	50	2729506	100	3300586	200	3398319						
4,4'-DDE	50	3360032	100	3787441	200	3628698						
4,4'-DDE [2C]	50	3503806	100	4059366	200	4175570						
4,4'-DDT	50	2695986	100	2988081	200	3135895						
4,4'-DDT [2C]	50	2768264	100	3403450	200	3532407						
2,4,5,6-TCMX (Surr)	50	3203934	100	3554214	200	3415118						
2,4,5,6-TCMX (Surr) [2C]	50	3365706	100	3864483	200	4042490						
Decachlorobiphenyl (Surr)	50	2467448	100	2800902	200	2771847						
Decachlorobiphenyl (Surr) [2C]	50	2075954	100	2400362	200	2388149						

INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Te

Calibration: A0B0404

Instrument: DUALECD8

Matrix:

Calibration Date: 02/04/20 14:02

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD	5	1976528	10	1853462	25	1688137	50	1862671	100	1888996	200	2084630
2,4'-DDD [2C]	5	1859711	10	1806277	25	1718481	50	1984945	100	1955472	200	2346739
2,4'-DDE	5	2348746	10	2280436	25	2088095	50	2327188	100	2230456	200	2414256
2,4'-DDE [2C]	5	2181282	10	2195810	25	2044534	50	2342820	100	2384413	200	2673412
2,4'-DDT	5	2374578	10	2292821	25	2144315	50	2342232	100	2298646	200	2510382
2,4'-DDT [2C]	5	2271608	10	2213786	25	2148938	50	2455132	100	2535689	200	2918111

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP</u>
Instrument ID: <u>DUALECD8</u>	Calibration: <u>A0B0404</u>
Lab File ID: <u>ECD8-02012015.D</u>	
Sequence: <u>0B01012</u>	Inject Date: <u>02/01/20</u>
Lab Sample ID: <u>0B01012-ICV1</u>	Inject Time: <u>18:14</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	50.9	1.8	70 - 130
4,4'-DDD [2C]	50.0	49.5	-1.0	70 - 130
4,4'-DDE	50.0	49.7	-0.6	70 - 130
4,4'-DDE [2C]	50.0	48.3	-3.3	70 - 130
4,4'-DDT	50.0	50.5	1.1	70 - 130
4,4'-DDT [2C]	50.0	52.9	5.7	70 - 130
2,4,5,6-TCMX (Surr)	50.0	46.2	-7.6	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	49.3	-1.3	70 - 130
Decachlorobiphenyl (Surr)	50.0	46.1	-7.7	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	48.3	-3.4	70 - 130

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8081B

Laboratory: Apex Laboratories SDG: Gasco PreRD DG 2019
Client: Anchor QEA, LLC Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP
Instrument ID: DUALECD8 Calibration: A0B0404
Lab File ID: ECD8-02012026.D
Sequence: 0B01012 Inject Date: 02/01/20
Lab Sample ID: 0B01012-ICV2 Inject Time: 21:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	50.0	-0.06	70 - 130
2,4'-DDD [2C]	50.0	54.0	8.0	70 - 130
2,4'-DDE	50.0	50.9	1.7	70 - 130
2,4'-DDE [2C]	50.0	53.2	6.3	70 - 130
2,4'-DDT	50.0	49.9	-0.2	70 - 130
2,4'-DDT [2C]	50.0	52.2	4.3	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: DUALECD8

Calibration: A0B0404

Lab File ID: ECD8-02252004.D

Calibration Date: 02/04/20 14:02

Sequence: 0B25044

Injection Date: 02/25/20

Lab Sample ID: 0B25044-CCV1

Injection Time: 12:15

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	46.5		2544986	2368964	-6.9	20
4,4'-DDD [2C]	XXX	50.0	49.7	-0.7				20
4,4'-DDE	Ave	50.0	45.5		3320795	3021310	-9.0	20
4,4'-DDE [2C]	XXX	50.0	48.1	-3.8				20
4,4'-DDT	Ave	50.0	46.9		2688249	2519376	-6.3	20
4,4'-DDT [2C]	XXX	50.0	50.6	1.3				20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: DUALECD8

Calibration: A0B0404

Lab File ID: ECD8-02252005.D

Calibration Date: 02/04/20 14:02

Sequence: 0B25044

Injection Date: 02/25/20

Lab Sample ID: 0B25044-CCV2

Injection Time: 12:32

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	46.0		1936798	1782727	-8.0	20
2,4'-DDD [2C]	Ave	50.0	48.8		1914280	1866572	-2.5	20
2,4'-DDE	Ave	50.0	45.7		2312095	2112706	-8.6	20
2,4'-DDE [2C]	Ave	50.0	48.4		2273013	2198822	-3.3	20
2,4'-DDT	Ave	50.0	49.2		2393139	2352626	-1.7	20
2,4'-DDT [2C]	XXX	50.0	51.7	3.5				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: DUALECD8

Calibration: A0B0404

Lab File ID: ECD8-02252015.D

Calibration Date: 02/04/20 14:02

Sequence: 0B25044

Injection Date: 02/25/20

Lab Sample ID: 0B25044-CCV3

Injection Time: 15:32

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	100	95.6		2544986	2432217	-4.4	20
4,4'-DDD [2C]	XXX	100	99.8	-0.2				20
4,4'-DDE	Ave	100	92.8		3320795	3081636	-7.2	20
4,4'-DDE [2C]	XXX	100	94.7	-5.3				20
4,4'-DDT	Ave	100	92.8		2688249	2495749	-7.2	20
4,4'-DDT [2C]	XXX	100	100	0.03				20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: DUALECD8

Calibration: A0B0404

Lab File ID: ECD8-02252016.D

Calibration Date: 02/04/20 14:02

Sequence: 0B25044

Injection Date: 02/25/20

Lab Sample ID: 0B25044-CCV4

Injection Time: 15:49

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	100	93.6		1936798	1813084	-6.4	20
2,4'-DDD [2C]	Ave	100	111		1914280	2123536	10.9	20
2,4'-DDE	Ave	100	91.4		2312095	2113718	-8.6	20
2,4'-DDE [2C]	Ave	100	107		2273013	2430278	6.9	20
2,4'-DDT	Ave	100	96.2		2393139	2303164	-3.8	20
2,4'-DDT [2C]	XXX	100	101	1.5				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: DUALECD8

Calibration: A0B0404

Lab File ID: ECD8-02252028.D

Calibration Date: 02/04/20 14:02

Sequence: 0B25044

Injection Date: 02/25/20

Lab Sample ID: 0B25044-CCV5

Injection Time: 19:26

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
4,4'-DDD	Ave	50.0	45.8		2544986	2332838	-8.3	20
4,4'-DDD [2C]	XXX	50.0	52.4	4.9				20
4,4'-DDE	Ave	50.0	43.4		3320795	2879536	-13.3	20
4,4'-DDE [2C]	XXX	50.0	50.4	0.8				20
4,4'-DDT	Ave	50.0	47.4		2688249	2548196	-5.2	20
4,4'-DDT [2C]	XXX	50.0	52.4	4.9				20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: DUALECD8

Calibration: A0B0404

Lab File ID: ECD8-02252029.D

Calibration Date: 02/04/20 14:02

Sequence: 0B25044

Injection Date: 02/25/20

Lab Sample ID: 0B25044-CCV6

Injection Time: 19:43

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
2,4'-DDD	Ave	50.0	44.7		1936798	1730838	-10.6	20
2,4'-DDD [2C]	Ave	50.0	53.1		1914280	2034164	6.3	20
2,4'-DDE	Ave	50.0	43.4		2312095	2005766	-13.2	20
2,4'-DDE [2C]	Ave	50.0	50.0		2273013	2272688	-0.01	20
2,4'-DDT	Ave	50.0	47.8		2393139	2287360	-4.4	20
2,4'-DDT [2C]	XXX	50.0	51.2	2.5				20

** Quadratic Curve fit may be weighted (1/a or 1/a2).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0B01012</u>	Instrument: <u>DUALECD8</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0B0404</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (0B01012-ICV1)			Lab File ID: ECD8-02012015.D		Analyzed: 02/01/20 18:14			
2,4,5,6-TCMX (Surr)	50.0	92	70 - 130	5.297	5.297333	-0.0003	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	99	70 - 130	5.981	5.981444	-0.0004	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	92	70 - 130	9.507	9.506889	0.0001	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	97	70 - 130	10.537	10.53678	0.0002	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0B25044

Instrument: DUALECD8

Matrix: Sediment

Calibration: A0B0404

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B25044-CCV1) Lab File ID: ECD8-02252004.D Analyzed: 02/25/20 12:15								
2,4,5,6-TCMX (Surr)	50.0	78	80 - 120	5.371	5.297333	0.0737	+/-1.0	*
2,4,5,6-TCMX (Surr) [2C]	50.0	94	80 - 120	6.071	5.981444	0.0896	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	92	80 - 120	9.563	9.506889	0.0561	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	101	80 - 120	10.628	10.53678	0.0912	+/-1.0	
Calibration Blank (0B25044-CCB1) Lab File ID: ECD8-02252006.D Analyzed: 02/25/20 12:49								
2,4,5,6-TCMX (Surr) [2C]	100	95	42 - 129	6.072	5.981444	0.0906	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	91	55 - 130	10.629	10.53678	0.0922	+/-1.0	
Blank (0020430-BLK1) Lab File ID: ECD8-02252007.D Analyzed: 02/25/20 13:06								
2,4,5,6-TCMX (Surr) [2C]	45.5	61	42 - 129	6.07	5.981444	0.0886	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	94	55 - 130	10.627	10.53678	0.0902	+/-1.0	
LCS (0020430-BS1) Lab File ID: ECD8-02252008.D Analyzed: 02/25/20 13:23								
2,4,5,6-TCMX (Surr) [2C]	50.0	74	42 - 129	6.07	5.981444	0.0886	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	104	55 - 130	10.627	10.53678	0.0902	+/-1.0	
PDI-077SC-A-02-03-191014 (A0B0288-01RE1) Lab File ID: ECD8-02252009.D Analyzed: 02/25/20 13:40								
2,4,5,6-TCMX (Surr) [2C]	84.0	70	42 - 129	6.07	5.981444	0.0886	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	84.0	93	55 - 130	10.627	10.53678	0.0902	+/-1.0	
Duplicate (0020430-DUP1) Lab File ID: ECD8-02252011.D Analyzed: 02/25/20 14:17								
2,4,5,6-TCMX (Surr) [2C]	83.2	71	42 - 129	6.07	5.981444	0.0886	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	83.2	99	55 - 130	10.625	10.53678	0.0882	+/-1.0	
Matrix Spike (0020430-MS1) Lab File ID: ECD8-02252013.D Analyzed: 02/25/20 14:54								
2,4,5,6-TCMX (Surr) [2C]	84.0	72	42 - 129	6.07	5.981444	0.0886	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	84.0	102	55 - 130	10.625	10.53678	0.0882	+/-1.0	
Calibration Check (0B25044-CCV3) Lab File ID: ECD8-02252015.D Analyzed: 02/25/20 15:32								
2,4,5,6-TCMX (Surr)	100	82	80 - 120	5.368	5.297333	0.0707	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	100	80 - 120	6.07	5.981444	0.0886	+/-1.0	
Decachlorobiphenyl (Surr)	100	95	80 - 120	9.56	9.506889	0.0531	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	99	80 - 120	10.626	10.53678	0.0892	+/-1.0	
Calibration Blank (0B25044-CCB2) Lab File ID: ECD8-02252017.D Analyzed: 02/25/20 16:06								
2,4,5,6-TCMX (Surr) [2C]	100	100	42 - 129	6.069	5.981444	0.0876	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	97	55 - 130	10.625	10.53678	0.0882	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8081B

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co</u>
Sequence: <u>0B25044</u>	Instrument: <u>DUALECD8</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0B0404</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B25044-CCV5)		Lab File ID: ECD8-02252028.D Analyzed: 02/25/20 19:26						
2,4,5,6-TCMX (Surr)	50.0	81	80 - 120	5.366	5.297333	0.0687	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	98	80 - 120	6.068	5.981444	0.0866	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	97	80 - 120	9.557	9.506889	0.0501	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	102	80 - 120	10.622	10.53678	0.0852	+/-1.0	
Calibration Blank (0B25044-CCB3)		Lab File ID: ECD8-02252030.D Analyzed: 02/25/20 20:00						
2,4,5,6-TCMX (Surr) [2C]	100	101	42 - 129	6.067	5.981444	0.0856	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	101	55 - 130	10.623	10.53678	0.0862	+/-1.0	

HOLDING TIME SUMMARY

EPA 8081B

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-077SC-A-02-03-191014	10/14/19 08:36	10/15/19 10:10	02/13/20 11:22	122.12	14.00	02/25/20 13:40	12.10	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: GCMS

METHOD: EPA 8270D

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Client Sample Id:

PDI-077SC-A-02-03-191014

Lab Sample Id:

A0B0288-01

Matrix

Sediment

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

3/26/2020 10:57AM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Acenaphthene	1.25	2.50	ug/kg
Acenaphthylene	1.25	2.50	ug/kg
Anthracene	1.25	2.50	ug/kg
Benz(a)anthracene	1.25	2.50	ug/kg
Benzo(a)pyrene	1.25	2.50	ug/kg
Benzo(b)fluoranthene	1.25	2.50	ug/kg
Benzo(k)fluoranthene	1.25	2.50	ug/kg
Benzo(g,h,i)perylene	1.25	2.50	ug/kg
Chrysene	1.25	2.50	ug/kg
Dibenz(a,h)anthracene	1.25	2.50	ug/kg
Fluoranthene	1.25	2.50	ug/kg
Fluorene	1.25	2.50	ug/kg
Indeno(1,2,3-cd)pyrene	1.25	2.50	ug/kg
2-Methylnaphthalene	1.25	2.50	ug/kg
Naphthalene	1.25	2.50	ug/kg
Phenanthrene	1.25	2.50	ug/kg
Pyrene	1.25	2.50	ug/kg

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-077SC-A-02-03-191014

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>A0B0288-01RE1</u>	File ID: <u>N02132013.D</u>
Sampled: <u>10/14/19 08:36</u>	Prepared: <u>02/13/20 11:25</u>	Analyzed: <u>02/13/20 18:48</u>
Solids: <u>57.96</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.15 g / 5 mL</u>
Batch: <u>0020423</u>	Sequence: <u>0B13031</u>	Calibration: <u>A911001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	100	1350	D
208-96-8	Acenaphthylene	100	455	D
120-12-7	Anthracene	100	389	JD
56-55-3	Benz(a)anthracene	100	1960	D
50-32-8	Benzo(a)pyrene	100	2500	D
205-99-2	Benzo(b)fluoranthene	100	2160	D
207-08-9	Benzo(k)fluoranthene	100	818	D
191-24-2	Benzo(g,h,i)perylene	100	2000	D
218-01-9	Chrysene	100	2560	D
53-70-3	Dibenz(a,h)anthracene	100	239	JD
206-44-0	Fluoranthene	100	3480	D
86-73-7	Fluorene	100	751	D
193-39-5	Indeno(1,2,3-cd)pyrene	100	1720	D
91-57-6	2-Methylnaphthalene	100	212	U
91-20-3	Naphthalene	100	764	D
85-01-8	Phenanthrene	100	4540	D
129-00-0	Pyrene	100	4150	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	85.0	59.6	70	44 - 115	D
p-Terphenyl-d14 (Surr)	85.0	75.3	89	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	170423	7.755	178010	7.755	
Acenaphthene-d10 (ISTD)	114449	9.509	116846	9.509	
Phenanthrene-d10 (ISTD)	203638	11.013	201094	11.013	
Chrysene-d12 (ISTD)	166155	14.673	155839	14.674	
Perylene-d12 (ISTD)	161474	18.13	142507	18.13	
Dibenz(a,h)anthracene-d14 (ISTD)	125231	20.52	115258	20.52	

* Values outside of QC limits

PREPARATION BATCH SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Batch: 0020423

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020423-BLK2	N02132010.D	02/13/20 11:25	
LCS	0020423-BS1	N02132011.D	02/13/20 11:25	
PDI-077SC-A-02-03-191014 (Dup)	0020423-DUP2	N02132015.D	02/13/20 11:25	
PDI-077SC-A-02-03-191014 (MS)	0020423-MS2	N02142004.D	02/13/20 11:25	
PDI-077SC-A-02-03-191014	A0B0288-01RE1	N02132013.D	02/13/20 11:25	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>		
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C</u>		
Matrix: <u>Sediment</u>	Laboratory ID: <u>0020423-BLK2</u>	File ID: <u>N02132010.D</u>	
Prepared: <u>02/13/20 11:25</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 5 mL</u>	
Analyzed: <u>02/13/20 17:13</u>	Instrument: <u>SV-GCMS14</u>		
Batch: <u>0020423</u>	Sequence: <u>0B13031</u>	Calibration: <u>A9I1001</u>	

CAS NO.	COMPOUND	CONC. (ug/kg wet)	Q
83-32-9	Acenaphthene	1.14	U
208-96-8	Acenaphthylene	1.14	U
120-12-7	Anthracene	1.14	U
56-55-3	Benz(a)anthracene	1.14	U
50-32-8	Benzo(a)pyrene	1.14	U
205-99-2	Benzo(b)fluoranthene	1.14	U
207-08-9	Benzo(k)fluoranthene	1.14	U
191-24-2	Benzo(g,h,i)perylene	1.14	U
218-01-9	Chrysene	1.14	U
53-70-3	Dibenz(a,h)anthracene	1.14	U
206-44-0	Fluoranthene	1.14	U
86-73-7	Fluorene	1.14	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.14	U
91-57-6	2-Methylnaphthalene	1.14	U
91-20-3	Naphthalene	1.14	U
85-01-8	Phenanthrene	1.14	U
129-00-0	Pyrene	1.14	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg wet)	CONC (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	45.5	34.6	76	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	39.2	86	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	185468	7.755	178010	7.755	
Acenaphthene-d10 (ISTD)	115433	9.509	116846	9.509	
Phenanthrene-d10 (ISTD)	196413	11.013	201094	11.013	
Chrysene-d12 (ISTD)	154942	14.668	155839	14.674	
Perylene-d12 (ISTD)	145536	18.13	142507	18.13	
Dibenz(a,h)anthracene-d14 (ISTD)	118265	20.514	115258	20.52	

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Matrix: Sediment

Batch: 0020423

Laboratory ID: 0020423-BS1

Preparation: EPA 3546

Initial/Final: 10 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	20.0	16.3	82	40 - 122
Acenaphthylene	20.0	15.6	78	32 - 132
Anthracene	20.0	14.9	75	47 - 123
Benz(a)anthracene	20.0	14.6	73	49 - 126
Benzo(a)pyrene	20.0	15.6	78	45 - 129
Benzo(b)fluoranthene	20.0	15.8	79	45 - 132
Benzo(k)fluoranthene	20.0	15.8	79	47 - 132
Benzo(g,h,i)perylene	20.0	15.0	75	43 - 134
Chrysene	20.0	16.0	80	50 - 124
Dibenz(a,h)anthracene	20.0	15.3	77	45 - 134
Fluoranthene	20.0	15.7	78	50 - 127
Fluorene	20.0	15.4	77	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	15.1	75	45 - 133
2-Methylnaphthalene	20.0	14.5	72	38 - 122
Naphthalene	20.0	16.5	82	35 - 123
Phenanthrene	20.0	16.3	81	50 - 121
Pyrene	20.0	16.2	81	47 - 127

* = Values outside of QC limits

DUPLICATES

PDI-077SC-A-02-03-191014

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Matrix: Sediment

Laboratory ID: 0020423-DUP2

Batch: 0020423

Lab Source ID: A0B0288-01RE1

Preparation: EPA 3546

Initial/Final: 10.09 g / 5 mL

Source Sample Name: PDI-077SC-A-02-03-191014

% Solids: 57.96

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Acenaphthene	30	1350		1280		5		EPA 8270D
Acenaphthylene	30	455		489		7		EPA 8270D
Anthracene	30	389		400		3		EPA 8270D
Benz(a)anthracene	30	1960		1850		6		EPA 8270D
Benzo(a)pyrene	30	2500		2490		0.4		EPA 8270D
Benzo(b)fluoranthene	30	2160		2170		0.4		EPA 8270D
Benzo(k)fluoranthene	30	818		829		1		EPA 8270D
Benzo(g,h,i)perylene	30	2000		2030		2		EPA 8270D
Chrysene	30	2560		2370		8		EPA 8270D
Dibenz(a,h)anthracene	30	239		256		7		EPA 8270D
Fluoranthene	30	3480		4250		20		EPA 8270D
Fluorene	30	751		779		4		EPA 8270D
Indeno(1,2,3-cd)pyrene	30	1720		1710		0.6		EPA 8270D
2-Methylnaphthalene	30	208		ND				EPA 8270D
Naphthalene	30	764		577		28		EPA 8270D
Phenanthrene	30	4540		5300		15		EPA 8270D
Pyrene	30	4150		4910		17		EPA 8270D

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

PDI-077SC-A-02-03-191014

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Matrix: Sediment

Batch: 0020423

Laboratory ID: 0020423-MS2

Preparation: EPA 3546

Initial/Final: 10.19 g / 5 mL

Source Sample Name: PDI-077SC-A-02-03-191014

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	33.9	1350	1340	-20 *	40 - 122
Acenaphthylene	33.9	455	370	-251 *	32 - 132
Anthracene	33.9	389	436	139 *	47 - 123
Benzo(a)anthracene	33.9	1960	1070	-2630 *	49 - 126
Benzo(a)pyrene	33.9	2500	1360	-3370 *	45 - 129
Benzo(b)fluoranthene	33.9	2160	1230	-2750 *	45 - 132
Benzo(k)fluoranthene	33.9	818	457	-1060 *	47 - 132
Benzo(g,h,i)perylene	33.9	2000	1160	-2460 *	43 - 134
Chrysene	33.9	2560	1410	-3400 *	50 - 124
Dibenz(a,h)anthracene	33.9	239	ND	-705 *	45 - 134
Fluoranthene	33.9	3480	3250	-687 *	50 - 127
Fluorene	33.9	751	793	124	43 - 125
Indeno(1,2,3-cd)pyrene	33.9	1720	998	-2130 *	45 - 133
2-Methylnaphthalene	33.9	ND	212	*	38 - 122
Naphthalene	33.9	764	723	-123 *	35 - 123
Phenanthrene	33.9	4540	4740	575 *	50 - 121
Pyrene	33.9	4150	3440	-2090 *	47 - 127

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0B13031

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B13031-TUN2	N02132006.D	02/13/20 15:10
Calibration Check	0B13031-CCV2	N02132007.D	02/13/20 15:37
Calibration Blank	0B13031-CCB2	N02132008.D	02/13/20 16:09
Blank	0020423-BLK2	N02132010.D	02/13/20 17:13
LCS	0020423-BS1	N02132011.D	02/13/20 17:45
PDI-077SC-A-02-03-191014	A0B0288-01RE1	N02132013.D	02/13/20 18:48
PDI-077SC-A-02-03-191014 (Dup)	0020423-DUP2	N02132015.D	02/13/20 19:53

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C</u>
Sequence: <u>0B14025</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9I1001</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0B14025-TUN1	N02142001.D	02/14/20 12:16
Calibration Check	0B14025-CCV1	N02142002.D	02/14/20 12:44
Calibration Blank	0B14025-CCB1	N02142003.D	02/14/20 13:16
PDI-077SC-A-02-03-191014 (MS)	0020423-MS2	N02142004.D	02/14/20 14:13

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 9I06028

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9I06028-TUN1	N09061911.D	09/06/19 15:51
Initial Cal Blank	9I06028-ICB1	N09061912.D	09/06/19 16:18
Cal Standard	9I06028-CAL1	N09061913.D	09/06/19 16:51
Cal Standard	9I06028-CAL2	N09061914.D	09/06/19 17:23
Cal Standard	9I06028-CAL3	N09061915.D	09/06/19 17:55
Cal Standard	9I06028-CAL4	N09061916.D	09/06/19 18:27
Cal Standard	9I06028-CAL5	N09061917.D	09/06/19 19:00
Cal Standard	9I06028-CAL6	N09061918.D	09/06/19 19:32
Cal Standard	9I06028-CAL7	N09061919.D	09/06/19 20:04
Cal Standard	9I06028-CAL8	N09061920.D	09/06/19 20:37
Cal Standard	9I06028-CAL9	N09061921.D	09/06/19 21:09
Cal Standard	9I06028-CALA	N09061922.D	09/06/19 21:41
Initial Cal Check	9I06028-ICV1	N09061924.D	09/06/19 22:45

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Lab File ID: N02132006.D

Injection Date: 02/13/20

Instrument ID: SV-GCMS14

Injection Time: 15:10

Sequence: 0B13031

Lab Sample ID: 0B13031-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.70	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.52	PASS
m/z 197	Less than 2% of m/z 198	0.19	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.66	PASS
m/z 365	1 - 100% of m/z 198	4.05	PASS
m/z 441	Less than 150% of m/z 443	77.17	PASS
m/z 442	0.1 - 200% of m/z 198	136.00	PASS
m/z 443	15 - 24% of m/z 442	19.34	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Lab File ID: N02142001.D

Injection Date: 02/14/20

Instrument ID: SV-GCMS14

Injection Time: 12:16

Sequence: 0B14025

Lab Sample ID: 0B14025-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.59	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.51	PASS
m/z 197	Less than 2% of m/z 198	0.52	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.78	PASS
m/z 365	1 - 100% of m/z 198	4.00	PASS
m/z 441	Less than 150% of m/z 443	77.66	PASS
m/z 442	0.1 - 200% of m/z 198	129.25	PASS
m/z 443	15 - 24% of m/z 442	19.37	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Lab File ID: N09061911.D

Injection Date: 09/06/19

Instrument ID: SV-GCMS14

Injection Time: 15:51

Sequence: 9I06028

Lab Sample ID: 9I06028-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.53	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.47	PASS
m/z 197	Less than 2% of m/z 198	0.48	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.86	PASS
m/z 365	1 - 100% of m/z 198	3.62	PASS
m/z 441	Less than 150% of m/z 443	78.02	PASS
m/z 442	0.1 - 200% of m/z 198	93.14	PASS
m/z 443	15 - 24% of m/z 442	19.59	PASS

INITIAL CALIBRATION DATA (Summary)

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A9I1001

Date: 09/10/19 10:37

Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.421956	Ave	2.101464	9.6727	1.195025E-02			20	
Acenaphthylene	2.170985	Ave	2.552096	9.498	1.184114E-02			20	
Anthracene	1.088444	Ave	2.157422	11.223	6.057048E-03			20	
Benz(a)anthracene	1.161023	Ave	7.869327	14.886	2.183092E-02			20	
Benzo(a)pyrene	0.9876419	Ave	9.000056	18.2396	6.304434E-02			20	
Benzo(b)fluoranthene	1.153887	Ave	5.67895	17.4697	5.010002E-02			20	
Benzo(k)fluoranthene	1.136093	Ave	6.126	17.5355	5.121218E-02			20	
Benzo(g,h,i)perylene	1.308305	Ave	5.850826	21.3008	4.687611E-02			20	
Chrysene	1.098706	Ave	1.523471	14.9673	0.0413593			20	
Dibenz(a,h)anthracene	1.158853	Ave	3.005339	20.8333	3.856247E-02			20	
Fluoranthene	1.178979	Ave	4.301023	12.435	3.109609E-02			20	
Fluorene	1.455085	Ave	3.852542	10.1928	3.089686E-02			20	
Indeno(1,2,3-cd)pyrene	1.233305	Ave	3.076119	20.7652	4.855178E-02			20	
2-Methylnaphthalene	0.9346173	Ave	5.160882	8.5884	7.334806E-03			20	
Naphthalene	1.102926	Ave	2.419226	7.9059	1.784269E-02			20	
Phenanthrene	1.170171	Ave	3.845982	11.1707	1.240085E-02			20	
Pyrene	1.562337	Ave	6.478501	12.7234	2.554012E-02			20	
2-Fluorobiphenyl (Surr)	1.491847	Ave	2.25656	8.9523	3.166423E-02			20	
p-Terphenyl-d14 (Surr)	1.051726	Ave	4.2222	12.9315	1.002441E-02			20	

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA

EPA 8270D

Laboratory: Apex Laboratories
 Client: Anchor QEA, LLC
 Calibration: A9I1001

SDG: Gasco PreRD DG 2019
 Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Te
 Instrument: SV-GCMS14
 Calibration Date: 09/10/19 10:37

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	1	1.438843	2.5	1.487282	5	1.404065	10	1.417353	25	1.419193	50	1.394003
Acenaphthylene	1	2.050122	2.5	2.174081	5	2.138587	10	2.170914	25	2.195113	50	2.171664
Anthracene	1	1.097223	2.5	1.089279	5	1.048542	10	1.062312	25	1.06872	50	1.076085
Benz(a)anthracene	1	1.393885	2.5	1.220902	5	1.088043	10	1.09326	25	1.113653	50	1.097579
Benzo(a)pyrene	1	0.9831077	2.5	0.860229	5	0.8587498	10	0.9020412	25	0.976879	50	1.004382
Benzo(b)fluoranthene	1	1.117055	2.5	1.085157	5	1.064599	10	1.091936	25	1.128411	50	1.163732
Benzo(k)fluoranthene	1	1.067445	2.5	1.081921	5	1.086293	10	1.035921	25	1.12827	50	1.118386
Benzo(b+k)fluoranthene(s)	2	1.112094	5	1.118006	10	1.116503	20	1.114938	50	1.172148	100	1.178575
Benzo(g,h,i)perylene	1	1.244973	2.5	1.184733	5	1.240673	10	1.251188	25	1.288531	50	1.327508
Chrysene	1	1.134167	2.5	1.107207	5	1.086845	10	1.086606	25	1.097682	50	1.081788
Dibenz(a,h)anthracene	1	1.172765	2.5	1.143563	5	1.121188	10	1.116162	25	1.120297	50	1.14373
Fluoranthene	1	1.194051	2.5	1.126776	5	1.104079	10	1.123912	25	1.161779	50	1.170777
Fluorene	1	1.368696	2.5	1.404786	5	1.408744	10	1.421664	25	1.460973	50	1.446685
Indeno(1,2,3-cd)pyrene	1	1.207624	2.5	1.279667	5	1.185249	10	1.191109	25	1.192038	50	1.22331
1-Methylnaphthalene	1	0.8213813	2.5	0.8752222	5	0.8374479	10	0.9164978	25	0.9229373	50	0.9636201
2-Methylnaphthalene	1	0.8933817	2.5	0.9068991	5	0.8805457	10	0.8856102	25	0.8950085	50	0.9411598
Naphthalene	1	1.158343	2.5	1.134973	5	1.097604	10	1.122705	25	1.090082	50	1.082918
Phenanthrene	1	1.287154	2.5	1.193603	5	1.137078	10	1.164716	25	1.154027	50	1.151784
Pyrene	1	1.63414	2.5	1.742266	5	1.585271	10	1.635519	25	1.580246	50	1.570799
Carbazole	1	0.8723786	2.5	0.8303246	5	0.809563	10	0.8178062	25	0.8662439	50	0.8707417
Dibenzofuran	1	1.760349	2.5	1.772666	5	1.736411	10	1.780314	25	1.790475	50	1.776721
2-Fluorobiphenyl (Surr)	1	1.423811	2.5	1.562065	5	1.481173	10	1.49926	25	1.499776	50	1.48226
p-Terphenyl-d14 (Surr)	1	1.150274	2.5	1.092469	5	1.036656	10	1.057709	25	1.06012	50	1.045507

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Te

Calibration: A9I1001

Instrument: SV-GCMS14

Matrix:

Calibration Date: 09/10/19 10:37

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
Acenaphthene	100	1.443403	200	1.431066	300	1.387896	400	1.396451				
Acenaphthylene	100	2.247844	200	2.243032	300	2.16069	400	2.157799				
Anthracene	100	1.109829	200	1.115327	300	1.102277	400	1.114841				
Benz(a)anthracene	100	1.142091	200	1.148716	300	1.139155	400	1.17295				
Benzo(a)pyrene	100	1.043258	200	1.084563	300	1.067927	400	1.095282				
Benzo(b)fluoranthene	100	1.194311	200	1.23063	300	1.216813	400	1.246224				
Benzo(k)fluoranthene	100	1.195543	200	1.221498	300	1.197767	400	1.227883				
Benzo(b+k)fluoranthene(s)	200	1.228745	400	1.259094	600	1.236491	800	1.266041				
Benzo(g,h,i)perylene	100	1.387838	200	1.395223	300	1.36793	400	1.394456				
Chrysene	100	1.095048	200	1.103107	300	1.080265	400	1.114348				
Dibenz(a,h)anthracene	100	1.178156	200	1.193501	300	1.181668	400	1.217496				
Fluoranthene	100	1.201514	200	1.227472	300	1.217957	400	1.261473				
Fluorene	100	1.525529	200	1.545124	300	1.492702	400	1.475951				
Indeno(1,2,3-cd)pyrene	100	1.260309	200	1.262162	300	1.248776	400	1.282806				
1-Methylnaphthalene	100	0.9858109	200	1.024788	300	1.01574	400	0.9810225				
2-Methylnaphthalene	100	0.9654102	200	1.001432	300	1.001474	400	0.9752517				
Naphthalene	100	1.082489	200	1.091885	300	1.077863	400	1.090395				
Phenanthrene	100	1.157739	200	1.178493	300	1.133633	400	1.143483				
Pyrene	100	1.559688	200	1.478103	300	1.415905	400	1.421434				
Carbazole	100	0.9049028	200	0.9454096	300	0.9401746	400	0.949796				
Dibenzofuran	100	1.831193	200	1.826652	300	1.770993	400	1.764878				
2-Fluorobiphenyl (Surr)	100	1.499049	200	1.496115	300	1.47728	400	1.49768				
p-Terphenyl-d14 (Surr)	100	1.048827	200	1.020622	300	0.9928344	400	1.012238				

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP</u>
Instrument ID: <u>SV-GCMS14</u>	Calibration: <u>A9I1001</u>
Lab File ID: <u>N09061924.D</u>	
Sequence: <u>9I06028</u>	Inject Date: <u>09/06/19</u>
Lab Sample ID: <u>9I06028-ICV1</u>	Inject Time: <u>22:45</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	50.3	0.7	70 - 130
Acenaphthylene	50.0	51.9	3.9	70 - 130
Anthracene	50.0	51.8	3.6	70 - 130
Benz(a)anthracene	50.0	48.5	-3.0	70 - 130
Benzo(a)pyrene	50.0	51.2	2.4	70 - 130
Benzo(b)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(k)fluoranthene	50.0	50.0	-0.06	70 - 130
Benzo(g,h,i)perylene	50.0	53.6	7.2	70 - 130
Chrysene	50.0	52.4	4.8	70 - 130
Dibenz(a,h)anthracene	50.0	49.3	-1.3	70 - 130
Fluoranthene	50.0	50.6	1.1	70 - 130
Fluorene	50.0	50.9	1.7	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	50.0	-0.05	70 - 130
2-Methylnaphthalene	50.0	46.8	-6.3	70 - 130
Naphthalene	50.0	49.9	-0.1	70 - 130
Phenanthrene	50.0	50.4	0.8	70 - 130
Pyrene	50.0	50.6	1.2	70 - 130
2-Fluorobiphenyl (Surr)	50.0	49.7	-0.7	70 - 130
p-Terphenyl-d14 (Surr)	50.0	48.7	-2.6	70 - 130

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: SV-GCMS14

Calibration: A911001

Lab File ID: N02132007.D

Calibration Date: 09/10/19 10:37

Sequence: 0B13031

Injection Date: 02/13/20

Lab Sample ID: 0B13031-CCV2

Injection Time: 15:37

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	47.7		1.421956	1.357873	-4.5	20
Acenaphthylene	Ave	50.0	45.8		2.170985	1.986478	-8.5	20
Anthracene	Ave	50.0	46.4		1.088444	1.009846	-7.2	20
Benz(a)anthracene	Ave	50.0	43.7		1.161023	1.013751	-12.7	20
Benzo(a)pyrene	Ave	50.0	46.7		0.9876419	0.9216951	-6.7	20
Benzo(b)fluoranthene	Ave	50.0	46.2		1.153887	1.066825	-7.5	20
Benzo(k)fluoranthene	Ave	50.0	47.4		1.136093	1.078151	-5.1	20
Benzo(g,h,i)perylene	Ave	50.0	44.9		1.308305	1.175745	-10.1	20
Chrysene	Ave	50.0	46.2		1.098706	1.014919	-7.6	20
Dibenz(a,h)anthracene	Ave	50.0	46.1		1.158853	1.067379	-7.9	20
Fluoranthene	Ave	50.0	46.1		1.178979	1.087064	-7.8	20
Fluorene	Ave	50.0	47.7		1.455085	1.389008	-4.5	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	44.5		1.233305	1.098024	-11.0	20
2-Methylnaphthalene	Ave	50.0	43.6		0.9346173	0.8152239	-12.8	20
Naphthalene	Ave	50.0	49.1		1.102926	1.082288	-1.9	20
Phenanthrene	Ave	50.0	47.5		1.170171	1.11148	-5.0	20
Pyrene	Ave	50.0	46.3		1.562337	1.446339	-7.4	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Instrument ID: SV-GCMS14

Calibration: A911001

Lab File ID: N02142002.D

Calibration Date: 09/10/19 10:37

Sequence: 0B14025

Injection Date: 02/14/20

Lab Sample ID: 0B14025-CCV1

Injection Time: 12:44

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	50.0	48.1		1.421956	1.368795	-3.7	20
Acenaphthylene	Ave	50.0	47.8		2.170985	2.074943	-4.4	20
Anthracene	Ave	50.0	46.2		1.088444	1.004654	-7.7	20
Benz(a)anthracene	Ave	50.0	43.6		1.161023	1.012209	-12.8	20
Benzo(a)pyrene	Ave	50.0	46.3		0.9876419	0.915226	-7.3	20
Benzo(b)fluoranthene	Ave	50.0	46.6		1.153887	1.076572	-6.7	20
Benzo(k)fluoranthene	Ave	50.0	47.0		1.136093	1.068525	-5.9	20
Benzo(g,h,i)perylene	Ave	50.0	45.4		1.308305	1.189223	-9.1	20
Chrysene	Ave	50.0	47.0		1.098706	1.032365	-6.0	20
Dibenz(a,h)anthracene	Ave	50.0	49.2		1.158853	1.139703	-1.7	20
Fluoranthene	Ave	50.0	47.1		1.178979	1.11041	-5.8	20
Fluorene	Ave	50.0	46.8		1.455085	1.361399	-6.4	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	44.4		1.233305	1.09585	-11.1	20
2-Methylnaphthalene	Ave	50.0	41.2		0.9346173	0.7703722	-17.6	20
Naphthalene	Ave	50.0	48.7		1.102926	1.075336	-2.5	20
Phenanthrene	Ave	50.0	47.4		1.170171	1.108328	-5.3	20
Pyrene	Ave	50.0	47.6		1.562337	1.48578	-4.9	20

** Quadratic Curve fit may be weighted (1/a or 1/a²).

* = Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co</u>
Sequence: <u>0B13031</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9I1001</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B13031-CCV2)			Lab File ID: N02132007.D		Analyzed: 02/13/20 15:37			
2-Fluorobiphenyl (Surr)	50.0	100	80 - 120	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	94	80 - 120	12.762	12.9315	-0.1695	+/-1.0	
Calibration Blank (0B13031-CCB2)			Lab File ID: N02132008.D		Analyzed: 02/13/20 16:09			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.773	12.9315	-0.1585	+/-1.0	
Blank (0020423-BLK2)			Lab File ID: N02132010.D		Analyzed: 02/13/20 17:13			
2-Fluorobiphenyl (Surr)	45.5	76	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	86	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
LCS (0020423-BS1)			Lab File ID: N02132011.D		Analyzed: 02/13/20 17:45			
2-Fluorobiphenyl (Surr)	50.0	87	44 - 115	8.822	8.9523	-0.1303	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	86	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
PDI-077SC-A-02-03-191014 (A0B0288-01RE1)			Lab File ID: N02132013.D		Analyzed: 02/13/20 18:48			
2-Fluorobiphenyl (Surr)	85.0	70	44 - 115	8.827	8.9523	-0.1253	+/-1.0	
p-Terphenyl-d14 (Surr)	85.0	89	54 - 127	12.756	12.9315	-0.1755	+/-1.0	
Duplicate (0020423-DUP2)			Lab File ID: N02132015.D		Analyzed: 02/13/20 19:53			
2-Fluorobiphenyl (Surr)	85.5	78	44 - 115	8.828	8.9523	-0.1243	+/-1.0	
p-Terphenyl-d14 (Surr)	85.5	89	54 - 127	12.762	12.9315	-0.1695	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD DG 2019</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co</u>
Sequence: <u>0B14025</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9I1001</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (0B14025-CCV1)			Lab File ID: N02142002.D		Analyzed: 02/14/20 12:44			
2-Fluorobiphenyl (Surr)	50.0	104	80 - 120	8.821	8.9523	-0.1313	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	93	80 - 120	12.756	12.9315	-0.1755	+/-1.0	
Calibration Blank (0B14025-CCB1)			Lab File ID: N02142003.D		Analyzed: 02/14/20 13:16			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.768	12.9315	-0.1635	+/-1.0	
Matrix Spike (0020423-MS2)			Lab File ID: N02142004.D		Analyzed: 02/14/20 14:13			
2-Fluorobiphenyl (Surr)	84.7	78	44 - 115	8.827	8.9523	-0.1253	+/-1.0	
p-Terphenyl-d14 (Surr)	84.7	88	54 - 127	12.762	12.9315	-0.1695	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270D

Laboratory:	<u>Apex Laboratories</u>	SDG:	<u>Gasco PreRD DG 2019</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co</u>
Sequence:	<u>9I06028</u>	Instrument:	<u>SV-GCMS14</u>
Matrix:	<u>Sediment</u>	Calibration:	<u>A9I1001</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (9I06028-ICV1)			Lab File ID: N09061924.D		Analyzed: 09/06/19 22:45			
2-Fluorobiphenyl (Surr)	50.0	99	70 - 130	8.95	8.9523	-0.0023	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	97	70 - 130	12.925	12.9315	-0.0065	+/-1.0	

**INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D**

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0B13031

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (0B13031-CCV2)			Lab File ID: N02132007.D			Analyzed: 02/13/20 15:37			
Naphthalene-d8 (ISTD)	178010	7.755	148351	7.883	120	50 - 200	-0.1280	+/-0.50	
Acenaphthene-d10 (ISTD)	116846	9.509	117951	9.638	99	50 - 200	-0.1290	+/-0.50	
Phenanthrene-d10 (ISTD)	201094	11.013	219661	11.147	92	50 - 200	-0.1340	+/-0.50	
Chrysene-d12 (ISTD)	155839	14.674	169841	14.907	92	50 - 200	-0.2330	+/-0.50	
Perylene-d12 (ISTD)	142507	18.13	142416	18.375	100	50 - 200	-0.2450	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	115258	20.52	93265	20.765	124	50 - 200	-0.2450	+/-0.50	
Calibration Blank (0B13031-CCB2)			Lab File ID: N02132008.D			Analyzed: 02/13/20 16:09			
Naphthalene-d8 (ISTD)	175092	7.755	178010	7.755	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	108842	9.509	116846	9.509	93	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	174626	11.013	201094	11.013	87	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	131593	14.673	155839	14.674	84	50 - 200	-0.0010	+/-0.50	
Perylene-d12 (ISTD)	121695	18.13	142507	18.13	85	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	99239	20.52	115258	20.52	86	50 - 200	0.0000	+/-0.50	
Blank (0020423-BLK2)			Lab File ID: N02132010.D			Analyzed: 02/13/20 17:13			
Naphthalene-d8 (ISTD)	185468	7.755	178010	7.755	104	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	115433	9.509	116846	9.509	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	196413	11.013	201094	11.013	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	154942	14.668	155839	14.674	99	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	145536	18.13	142507	18.13	102	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	118265	20.514	115258	20.52	103	50 - 200	-0.0060	+/-0.50	
LCS (0020423-BS1)			Lab File ID: N02132011.D			Analyzed: 02/13/20 17:45			
Naphthalene-d8 (ISTD)	181260	7.755	178010	7.755	102	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	117325	9.509	116846	9.509	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	201024	11.013	201094	11.013	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	152324	14.668	155839	14.674	98	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	139603	18.124	142507	18.13	98	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	112623	20.514	115258	20.52	98	50 - 200	-0.0060	+/-0.50	
PDI-077SC-A-02-03-191014 (A0B0288-01RE1)			Lab File ID: N02132013.D			Analyzed: 02/13/20 18:48			
Naphthalene-d8 (ISTD)	170423	7.755	178010	7.755	96	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	114449	9.509	116846	9.509	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	203638	11.013	201094	11.013	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	166155	14.673	155839	14.674	107	50 - 200	-0.0010	+/-0.50	
Perylene-d12 (ISTD)	161474	18.13	142507	18.13	113	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	125231	20.52	115258	20.52	109	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co

Sequence: 0B13031

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Duplicate (0020423-DUP2)			Lab File ID: N02132015.D			Analyzed: 02/13/20 19:53			
Naphthalene-d8 (ISTD)	185262	7.755	178010	7.755	104	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	117571	9.509	116846	9.509	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	209099	11.013	201094	11.013	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	172653	14.674	155839	14.674	111	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	168173	18.13	142507	18.13	118	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	134112	20.52	115258	20.52	116	50 - 200	0.0000	+/-0.50	

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-077SC-A-02-03-191014	10/14/19 08:36	10/15/19 10:10	02/13/20 11:25	122.12	14.00	02/13/20 18:48	0.31	40.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 5310 B MOD

ANALYSES DATA PACKAGE COVER PAGE

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Client Sample Id:

Lab Sample Id:

Matrix

PDI-077SC-A-02-03-191014

A0B0288-01

Sediment

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

3/26/2020 10:57AM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Organic Carbon	200	200	mg/kg

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

METHOD DETECTION AND REPORTING LIMITS

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Soil

Analyte	MDL	MRL	Units
Total Organic Carbon	0.020	0.020	% by Weight

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

INORGANIC ANALYSIS DATA SHEET
SM 5310 B MOD

PDI-077SC-A-02-03-191014

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores

Matrix: Sediment

Laboratory ID: A0B0288-01

File ID: 0B17050.txt-019

Sampled: 10/14/19 08:36

Prepared: 02/12/20 18:30

Analyzed: 02/17/20 19:37

Solids: 57.96

Preparation: PSEP-5310B TOC

Initial/Final: 0.2 N/A / 0.2 N/A

Batch: 0020404

Sequence: 0B17050

Calibration: A0A0805

Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	1.5	1		SM 5310 B MOD

PREPARATION BATCH SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cc

Batch: 0020404 Batch Matrix: Soil

Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0020404-BLK1	0B17050.txt-017	02/12/20 18:30	
LCS	0020404-BS1	0B17050.txt-018	02/12/20 18:30	
PDI-077SC-A-02-03-191014 (Dup)	0020404-DUP1	0B17050.txt-020	02/12/20 18:30	
PDI-077SC-A-02-03-191014 (Dup)	0020404-DUP2	0B17050.txt-021	02/12/20 18:30	
PDI-077SC-A-02-03-191014	A0B0288-01	0B17050.txt-019	02/12/20 18:30	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

METHOD BLANK DATA SHEET
SM 5310 B MOD

Laboratory: <u>Apex Laboratories</u>	SDG: <u>Gasco PreRD_DG 2019</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C</u>	
Matrix: <u>Soil</u>	Laboratory ID: <u>0020404-BLK1</u>	File ID: <u>0B17050.txt-017</u>
Prepared: <u>02/12/20 18:30</u>	Preparation: <u>PSEP-5310B TOC</u>	Initial/Final: <u>0.2 N/A / 0.2 N/A</u>
Analyzed: <u>02/17/20 19:16</u>	Instrument: <u>TOC6</u>	
Batch: <u>0020404</u>	Sequence: <u>0B17050</u>	Calibration: <u>A0A0805</u>

CAS NO.	COMPOUND	CONC. (% by Weight)	Q
TOC	Total Organic Carbon	0.020	U

LCS / LCS DUPLICATE RECOVERY

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Matrix: Soil

Batch: 0020404

Laboratory ID: 0020404-BS1

Preparation: PSEP-5310B TOC

Initial/Final: 0.2 N/A / 0.2 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (* = Out)	QC LIMITS REC.
Total Organic Carbon	10000	9700	97	90 - 110

* = Values outside of QC limits

DUPLICATES
SM 5310 B MOD

PDI-077SC-A-02-03-191014

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Matrix: Soil

Laboratory ID: 0020404-DUP1

Batch: 0020404

Lab Source ID: A0B0288-01

Preparation: PSEP-5310B TOC

Initial/Final: 0.2 N/A / 0.2 N/A

Source Sample Name: PDI-077SC-A-02-03-191014

% Solids: 57.96

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	1.5		1.5		2		SM 5310 B MOD

* Values outside of QC limits

DUPLICATES
SM 5310 B MOD

PDI-077SC-A-02-03-191014

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP

Matrix: Soil

Laboratory ID: 0020404-DUP2

Batch: 0020404

Lab Source ID: A0B0288-01

Preparation: PSEP-5310B TOC

Initial/Final: 0.2 N/A / 0.2 N/A

Source Sample Name: PDI-077SC-A-02-03-191014

% Solids: 57.96

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	1.5		1.6		4		SM 5310 B MOD

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing C

Sequence: 0A08052

Instrument: TOC6

Matrix: Sediment

Calibration: A0A0805

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0A08052-CAL2	0A08052.txt-005	01/08/20 18:59
Cal Standard	0A08052-CAL3	0A08052.txt-006	01/08/20 19:09
Cal Standard	0A08052-CAL4	0A08052.txt-007	01/08/20 19:20
Cal Standard	0A08052-CAL5	0A08052.txt-008	01/08/20 19:31
Cal Standard	0A08052-CAL6	0A08052.txt-009	01/08/20 19:42
Cal Standard	0A08052-CAL7	0A08052.txt-010	01/08/20 19:53
Cal Standard	0A08052-CAL8	0A08052.txt-011	01/08/20 20:03
Cal Standard	0A08052-CAL9	0A08052.txt-012	01/08/20 20:14
Initial Cal Check	0A08052-ICV1	0A08052.txt-014	01/08/20 20:36
Initial Cal Blank	0A08052-ICB1	0A08052.txt-015	01/08/20 20:47

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

ANALYSIS BATCH (SEQUENCE) SUMMARY
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Sequence: 0B17050

Instrument: TOC6

Matrix: Soil

Calibration: A0A0805

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0B17050-CCV1	0B17050.txt-003	02/17/20 16:45
Calibration Blank	0B17050-CCB1	0B17050.txt-004	02/17/20 16:55
Calibration Check	0B17050-CCV2	0B17050.txt-015	02/17/20 18:54
Calibration Blank	0B17050-CCB2	0B17050.txt-016	02/17/20 19:05
Blank	0020404-BLK1	0B17050.txt-017	02/17/20 19:16
LCS	0020404-BS1	0B17050.txt-018	02/17/20 19:26
PDI-077SC-A-02-03-191014	A0B0288-01	0B17050.txt-019	02/17/20 19:37
PDI-077SC-A-02-03-191014 (Dup)	0020404-DUP1	0B17050.txt-020	02/17/20 19:48
PDI-077SC-A-02-03-191014 (Dup)	0020404-DUP2	0B17050.txt-021	02/17/20 19:59
Calibration Check	0B17050-CCV3	0B17050.txt-022	02/17/20 20:10
Calibration Blank	0B17050-CCB3	0B17050.txt-023	02/17/20 20:20

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

INITIAL CALIBRATION DATA (Summary)

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing

Calibration: A0A0805

Date: 01/08/20 16:30

Instrument: TOC6

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon	107.0509	Lin	3.685489			0.99994			

Note: ** Quad COD may be incorrect if weighting (1/a) or (1/a²) used. Weighting not shown here. Please see instrument calibration printouts for validation.

INITIAL CALIBRATION DATA
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Te

Calibration: A0A0805

Instrument: TOC6

Calibration Date: 01/08/20 16:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF
Total Organic Carbon	200	114.6217	500	110.0738	1000	108.4645	2500	105.6496	5000	103.2242	12500	102.6331

INITIAL CALIBRATION DATA (Continued)

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Te

Calibration: AOA0805

Instrument: TOC6

Matrix:

Calibration Date: 01/08/20 16:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF	mg/kg	RF
Total Organic Carbon	25000	106.7626	50000	104.9773								

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Instrument ID: TOC6

Calibration: A0A0805

Control Limit: +/- 10.00%

Sequence: 0A08052

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0A08052-ICV1	Total Organic Carbon	10000	10000	100	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Instrument ID: TOC6

Calibration: A0A0805

Control Limit: +/- 10.00%

Sequence: 0B17050

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0B17050-CCV1	Total Organic Carbon	10000	9500	95	mg/kg	SM 5310 B MOD
0B17050-CCV2	Total Organic Carbon	10000	9600	96	mg/kg	SM 5310 B MOD
0B17050-CCV3	Total Organic Carbon	10000	9800	98	mg/kg	SM 5310 B MOD

* Values outside of QC limits

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Instrument ID: TOC6

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores

Sequence: 0A08052

Calibration: A0A0805

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0A08052-ICB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD

(Inst) indicates on-Instrument Result and Reporting Level. Used for non-digested Instrument Blanks.

INSTRUMENT BLANKS
SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Instrument ID: TOC6

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores

Sequence: 0B17050

Calibration: A0A0805

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0B17050-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B17050-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
0B17050-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD

(Inst) indicates on-Instrument Result and Reporting Level. Used for non-digested Instrument Blanks.

HOLDING TIME SUMMARY

SM 5310 B MOD

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-077SC-A-02-03-191014	10/14/19 08:36	10/15/19 10:10	02/12/20 18:30	121.41	28.00	02/17/20 19:37	126.46	28.00	*

Apex Laboratories

SDG: Gasco PreRD_DG 2019

CLASS: WET

METHOD: SM 2540 G

ANALYSES DATA PACKAGE COVER PAGE

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Co

Client Sample Id:

PDI-077SC-A-02-03-191014

Lab Sample Id:

A0B0288-01

Matrix

Sediment

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____



Name: _____

David G. Jack

Forms Created: _____

3/26/2020 10:57AM

Title: _____

Technical Manager

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Solids	1.00	1.00	% by Weight

Note: MDLs are listed only if the corresponding analyte was evaluated to the MDL in this report .

INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-077SC-A-02-03-191014

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores

Matrix: Sediment

Laboratory ID: A0B0288-01

Sampled: 10/14/19 08:36

Prepared: 02/12/20 10:33

Analyzed: 02/13/20 18:27

Solids: 57.96

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Batch: 0020362

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	58.0	1		SM 2540 G

PREPARATION BATCH SUMMARY

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cc

Batch: 0020362

Batch Matrix: Sediment

Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-077SC-A-02-03-191014 (Dup)	0020362-DUP1		02/12/20 10:33	
PDI-077SC-A-02-03-191014	A0B0288-01		02/12/20 10:33	

Note: Client samples are listed only if they are included in this report.

Duplicates and Matrix Spike/Duplicates QC Samples are only listed if sourced from a sample included in this report.

DUPLICATES

PDI-077SC-A-02-03-191014

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco PreRD_DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD_DG 2019 - 4a-b. DOC-CAP

Matrix: Sediment

Laboratory ID: 0020362-DUP1

Batch: 0020362

Lab Source ID: A0B0288-01

Preparation: Total Solids (SM2540G/PSEP)

Initial/Final: 1 N/A / 1 N/A

Source Sample Name: PDI-077SC-A-02-03-191014

% Solids: 57.96

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	58.0		57.9		0.2		SM 2540 G

* Values outside of QC limits

HOLDING TIME SUMMARY

SM 2540 G

Laboratory: Apex Laboratories

SDG: Gasco PreRD DG 2019

Client: Anchor QEA, LLC

Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing C

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PDI-077SC-A-02-03-191014	10/14/19 08:36	10/15/19 10:10	02/12/20 10:33	121.08	180.00	02/13/20 18:27	1.33		

Raw Data

**Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data**

Batch 0020348
Sequence 0B17022 (A0B0288-01)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020348 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	$\frac{7}{8}$	>11	
	0020348-BLK1	QC	02/12/20 07:03	31	2				100						
	0020348-BS1	QC	02/12/20 07:03	30	2	A20B033		100	100						
	A0A1011-04RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.29	2				100	PDI-062SC-A-08-09-191023	Added 2/11/2020 By KAK				
	0020348-DUP1	QC	02/12/20 07:03	30.26	2		A0A1011-04RE1		100						
	A0A1011-04RE2	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.29	2				100	PDI-062SC-A-08-09-191023	Added 2/13/2020 by KAK				
	A0A1011-05RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.61	2				100	PDI-062SC-A-09-10-191023	Added 2/11/2020 By KAK				
	A0A1011-05RE2	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.61	2				100	PDI-062SC-A-09-10-191023	Added 2/13/2020 by KAK				
	A0A1011-06RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.25	2				100	PDI-062SC-A-10-11-191023	Added 2/11/2020 By KAK				
	0020348-MS1	QC	02/12/20 07:03	30.23	2	A20B033	A0A1011-06RE1	100	100						
	A0B0288-01	B 8082 PCBs - Low Level (30g/2mL)	02/12/20 15:32	30.14	2				100	PDI-077SC-A-02-03-191014	+1262,1268				

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20B033	07/03/20	8082 PCB Matrix Spike	A20B060	07/17/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisil Lot 817211-CM						
A19G279	01/18/22	Sulfuric Acid						
A19H411	08/31/21	n-Hexane Lot# 192712						
A19I211	05/07/22	Copper, Granular Lot# J260003						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A20A282	07/19/21	Sodium Sulfate Lot # 194865						

Method 3546 digestion time and temperture achieved.
Initial: _____
Witness: _____

Prepared By: _____ Date: _____
Reviewed By: JK Date: 2/17/20



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020348 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	2-8	>11	
	0020348-BLK1	QC	02/12/20 07:03	31	2				100						
	0020348-BS1	QC	02/12/20 07:03	30	2	A20B033		100	100						
	A0A1011-04RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.29	2				100	PDI-062SC-A-08-09-191023	Added 2/11/2020 By KAK				
	0020348-DUP1	QC	02/12/20 07:03	30.26	2		A0A1011-04RE1		100						
	A0A1011-05RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.61	2				100	PDI-062SC-A-09-10-191023	Added 2/11/2020 By KAK				
	A0A1011-06RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30.25	2				100	PDI-062SC-A-10-11-191023	Added 2/11/2020 By KAK				
	0020348-MS1	QC	02/12/20 07:03	30.23	2		A0A1011-06RE1		100						
<input checked="" type="checkbox"/>	A0B0288-01	B 8082 PCBs - Low Level (30g/2mL)	02/12/20 15:32	30 ^{30.14}	2				100	PDI-077SC-A-02-03-191014	+1262,1268 Mud (P) (S)				

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20B033	07/03/20	8082 PCB Matrix Spike	A20B060	07/17/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisil Lot 817211-CM						
A19G279	01/18/22	Sulfuric Acid						
A19H411	08/31/21	n-Hexane Lot# 192712						
A19I211	05/07/22	Copper, Granular Lot# J260003						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A20A282	07/19/21	Sodium Sulfate Lot # 194865						

(P) = Partial Dryout
(S) = Staining on Turbidity

Method 3546 digestion time and temperture achieved.

Initial: *awlt*

Witness: _____

awlt

2/12/20
Date

[Signature]

2/17/20
Date

Prepared By:

Date

Reviewed By:

Date



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020348 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	2-11	>11
	0020348-BLK1	QC	02/12/20 07:03	30	2				100					
	0020348-BS1	QC	02/12/20 07:03	30	2	A20B033		100	100					
	A0A1011-04RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30 30.29	2				100	PDI-062SC-A-08-09-191023	Added 2/11/2020 By KAK Sand			
	0020348-DUP1	QC	02/12/20 07:03	30 30.26	2		A0A1011-04RE1		100		Sand			
	A0A1011-05RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30 30.61	2				100	PDI-062SC-A-09-10-191023	Added 2/11/2020 By KAK Sand			
	A0A1011-06RE1	A 8082 PCBs - Low Level (30g/2mL)	02/12/20 07:03	30 30.25	2				100	PDI-062SC-A-10-11-191023	Added 2/11/2020 By KAK Sand			
	0020348-MS1	QC	02/12/20 07:03	30 30.23	2	A20B033	A0A1011-06RE1	100	100		Sand			

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20B033	07/03/20	8082 PCB Matrix Spike	A20B060	07/17/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisol Lot 817211-CM						
A19G279	01/18/22	Sulfuric Acid						
A19H411	08/31/21	n-Hexane Lot# 192712						
A19I211	05/07/22	Copper, Granular Lot# J260003						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A20A282	07/19/21	Sodium Sulfate Lot # 194865						

★ Stained Turbo Vap Before and After Hexane Exchange.

Method 3546 digestion time and temperture achieved.

Initial: JAG

Witness: CAH 02/12/20

Prepared By: JAG Date: 2/12/20
CAH 2/12/20

Reviewed By: JAG Date: 2/13/20



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B17022**

Instrument: **DUALECD2R**

Date: **02/17/20 07:25**

Calibration: **A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B17022-CCV1	Water	QC	QC				
2	0B17022-CCB1	Water	QC	QC				A20A394
3	A0B0288-01	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/25/20	0020348		A20A395
4	0B17022-IBL1	Water	QC	QC				
5	0020360-BLK1	Water	QC	QC		0020360		
6	0020360-BS1	Water	QC	QC		0020360		
7	0020360-BSD1	Water	QC	QC		0020360		
8	A0B0286-01	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	02/24/20	0020360		
9	A0B0286-02	Water	8082 PCBs - Low Level (1000/1mL) (I	Anchor QEA, LLC	02/24/20	0020360		
10	A0B0286-03	Water	8082 PCBs - Low Level (1000/1mL)	Anchor QEA, LLC	02/24/20	0020360		
11	A0B0286-04	Water	8082 PCBs - Low Level (1000/1mL) (I	Anchor QEA, LLC	02/24/20	0020360		
12	0B17022-CCV2	Water	QC	QC				A20A394
13	0B17022-CCB2	Water	QC	QC				A20A395

Comments:

Data Entered By: AK 2/17/20

Data Reviewed By: MK 2/18/20

04/07/20 Anchor QEA, LLC - Gasco PreRD_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 148 of 731

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0B17022-CCV1

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	509.68
1016 (2)	466.44
1016 (3)	453.21
1016 (4)	514.95
1016 (5)	508.73
1016 (6)	496.85
Average:	491.64

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	553.75
1260 (2)	563.75
1260 (3)	536.08
1260 (4)	558.65
1260 (5)	586.55
1260 (6)	532.22
Average:	555.17

0020360-BS1

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	500.04
1016 (2)	536.41
1016 (3)	354.28
1016 (4)	687.42
1016 (5)	641.02
1016 (6)	497.15
Average:	536.05

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	739.04
1260 (2)	846.23
1260 (3)	699.58
1260 (4)	897.30
1260 (5)	799.14
1260 (6)	913.23
Average:	815.75

NE
Fail
MBZ 2/18/20

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0020360-BSD1

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	504.52
1016 (2)	547.38
1016 (3)	369.60
1016 (4)	667.63
1016 (5)	643.20
1016 (6)	515.34
Average:	541.28

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	776.77
1260 (2)	871.74
1260 (3)	738.89
1260 (4)	952.12
1260 (5)	868.26
1260 (6)	937.54
Average:	857.55

0B17022-CCV2

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	499.76
1016 (2)	452.18
1016 (3)	437.74
1016 (4)	508.28
1016 (5)	511.70
1016 (6)	486.53
Average:	482.70

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	540.13
1260 (2)	561.62
1260 (3)	541.24
1260 (4)	579.89
1260 (5)	580.62
1260 (6)	557.56
Average:	560.18

Data Path : K:\DATA\OB17022\
 Data File : ECD2R002.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 7:56
 Operator : MJB / KAK
 Sample : OB17022-CCV1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:25:44 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.627	57085064	253.008 ng/ml
62) S DCBP (S)	10.540	30443042	273.710 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.297	3150850	509.683 ng/ml
3) Aroclor 1016 (2)	6.788	5336654	466.436 ng/ml
4) Aroclor 1016 (3)	6.915	2427613	453.208 ng/ml
5) Aroclor 1016 (4)	7.001	2544251	514.951 ng/ml
6) Aroclor 1016 (5)	7.045	2821190	508.733 ng/ml
7) Aroclor 1016 (6)	7.170	2838281	496.848 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.802	233876	134.603 ng/ml
10) Aroclor 1221 (2)	5.875	420236	244.753 ng/ml
11) Aroclor 1221 (3)	5.963	1883298	329.997 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.963	1883298	412.100 ng/ml
14) Aroclor 1232 (2)	6.297	3150850	1210.593 ng/ml
15) Aroclor 1232 (3)	6.788	5336654	1090.903 ng/ml
16) Aroclor 1232 (4)	7.001	2544251	1503.839 ng/ml
17) Aroclor 1232 (5)	7.045	2821190	1355.791 ng/ml
18) Aroclor 1232 (6)	7.170	2838281	1308.160 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.297	3150850	693.053 ng/ml
21) Aroclor 1242 (2)	6.788	5336654	604.895 ng/ml
22) Aroclor 1242 (3)	6.915	2427613	633.813 ng/ml
23) Aroclor 1242 (4)	7.001	2544251	770.147 ng/ml
24) Aroclor 1242 (5)	7.045	2821190	706.370 ng/ml
25) Aroclor 1242 (6)	7.170	2838281	680.510 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.760	4522004	876.013 ng/ml
28) Aroclor 1248 (2)	7.001	2544251	400.080 ng/ml
29) Aroclor 1248 (3)	7.045	2821190	475.286 ng/ml
30) Aroclor 1248 (4)	7.170	2838281	389.045 ng/ml
31) Aroclor 1248 (5)	7.536	660545	74.204 ng/ml
32) Aroclor 1248 (6)	7.694	2348093	288.420 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.512	2003625	236.448 ng/ml
35) Aroclor 1254 (2)	7.694	2348093	168.808 ng/ml
36) Aroclor 1254 (3)	8.005	1336824	88.098 ng/ml
37) Aroclor 1254 (4)	8.244	955071	87.489 ng/ml
38) Aroclor 1254 (5)	8.578	7109051	631.991 ng/ml
39) Aroclor 1254 (6)	8.824	5323938	1509.403 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.140	5829762	553.746 ng/ml
42) Aroclor 1260 (2)	8.346	7194817	563.748 ng/ml
43) Aroclor 1260 (3)	8.578	7109051	536.081 ng/ml
44) Aroclor 1260 (4)	9.061	11816933	558.655 ng/ml
45) Aroclor 1260 (5)	9.319	7176330	586.554 ng/ml
46) Aroclor 1260 (6)	9.882	2597219	532.222 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R002.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 7:56
 Operator : MJB / KAK
 Sample : 0B17022-CCV1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:25:44 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

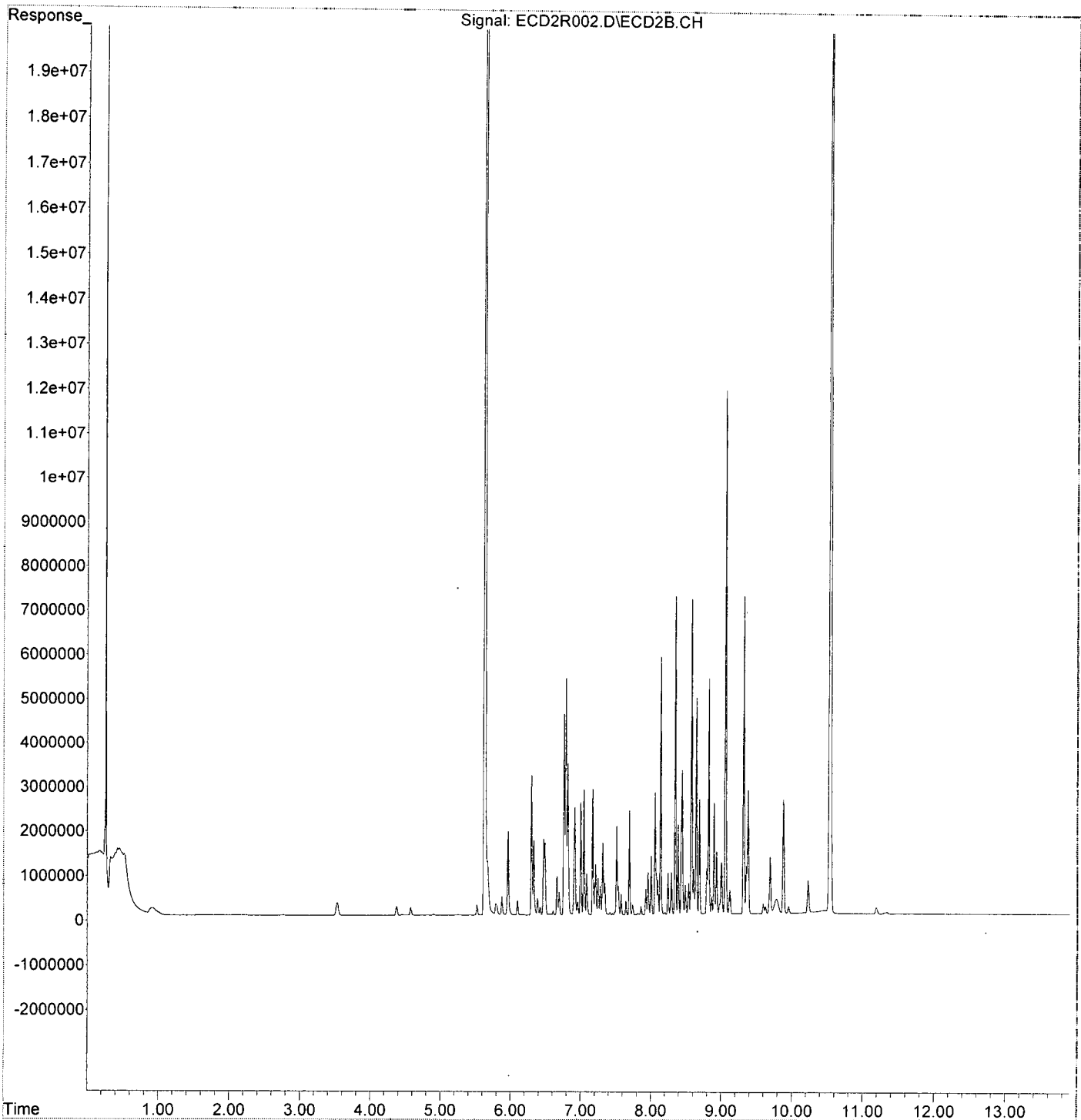
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.346	7194817	680.574 ng/ml
49) Aroclor 1262 (2)	8.646	4911526	321.487 ng/ml
50) Aroclor 1262 (3)	8.824	5323938	415.796 ng/ml
51) Aroclor 1262 (4)	9.061	11816933	429.322 ng/ml
52) Aroclor 1262 (5)	9.319	7176330	437.060 ng/ml
53) Aroclor 1262 (6)	9.882	2597219	360.698 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	403385	64.726 ng/ml
56) Aroclor 1268 (2)	9.319	7176330	258.453 ng/ml
57) Aroclor 1268 (3)	9.382	2797469	124.242 ng/ml
58) Aroclor 1268 (4)	9.597	244207	12.684 ng/ml
59) Aroclor 1268 (5)	9.882	2597219	331.990 ng/ml
60) Aroclor 1268 (6)	10.231	774200	15.296 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B17022\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 7:56
Operator : MJB / KAK
Sample : 0B17022-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:25:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R003.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 8:13
 Operator : MJB / KAK
 Sample : 0B17022-CCB1
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:26:06 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 2/17/20
 Jan

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S TCMX (S)	5.626	19501188	86.431 ng/ml
62) S DCBP (S)	10.539	11684377	105.053 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.299	1330	0.215 ng/ml
3) Aroclor 1016 (2)	6.800	1438	0.126 ng/ml
4) Aroclor 1016 (3)	6.917	770	0.144 ng/ml
5) Aroclor 1016 (4)	6.999	1460	0.296 ng/ml
6) Aroclor 1016 (5)	7.047	1543	0.278 ng/ml
7) Aroclor 1016 (6)	7.172	1194	0.209 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.818	11532	6.637 ng/ml
10) Aroclor 1221 (2)	5.867	8870	5.166 ng/ml
11) Aroclor 1221 (3)	5.946	32067	5.619 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.946	32067	7.017 ng/ml
14) Aroclor 1232 (2)	6.299	1330	0.511 ng/ml
15) Aroclor 1232 (3)	6.800	1438	0.294 ng/ml
16) Aroclor 1232 (4)	6.999	1460	0.863 ng/ml
17) Aroclor 1232 (5)	7.047	1543	0.741 ng/ml
18) Aroclor 1232 (6)	7.172	1194	0.550 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.299	1330	0.293 ng/ml
21) Aroclor 1242 (2)	6.800	1438	0.163 ng/ml
22) Aroclor 1242 (3)	6.917	770	0.201 ng/ml
23) Aroclor 1242 (4)	6.999	1460	0.442 ng/ml
24) Aroclor 1242 (5)	7.047	1543	0.386 ng/ml
25) Aroclor 1242 (6)	7.172	1194	0.286 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.757	902	0.175 ng/ml
28) Aroclor 1248 (2)	6.999	1460	0.230 ng/ml
29) Aroclor 1248 (3)	7.047	1543	0.260 ng/ml
30) Aroclor 1248 (4)	7.172	1194	0.164 ng/ml
31) Aroclor 1248 (5)	7.542	650	0.073 ng/ml
32) Aroclor 1248 (6)	7.697	2346	0.288 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.515	595	0.070 ng/ml
35) Aroclor 1254 (2)	7.697	2346	0.169 ng/ml
36) Aroclor 1254 (3)	8.008	7674	0.506 ng/ml
37) Aroclor 1254 (4)	8.245	6878	0.630 ng/ml
38) Aroclor 1254 (5)	8.579	10274	0.913 ng/ml
39) Aroclor 1254 (6)	8.822	11094	3.145 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.140	7142	0.678 ng/ml
42) Aroclor 1260 (2)	8.345	9492	0.744 ng/ml
43) Aroclor 1260 (3)	8.579	10274	0.775 ng/ml
44) Aroclor 1260 (4)	9.061	13806	0.653 ng/ml
45) Aroclor 1260 (5)	9.320	16637	1.360 ng/ml
46) Aroclor 1260 (6)	9.881	23322	4.779 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R003.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 8:13
 Operator : MJB / KAK
 Sample : 0B17022-CCB1
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:26:06 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.345	9492	0.898 ng/ml
49) Aroclor 1262 (2)	8.657	8630	0.565 ng/ml
50) Aroclor 1262 (3)	8.822	11094	0.866 ng/ml
51) Aroclor 1262 (4)	9.061	13806	0.502 ng/ml
52) Aroclor 1262 (5)	9.320	16637	1.013 ng/ml
53) Aroclor 1262 (6)	9.881	23322	3.239 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.868	10868	1.744 ng/ml
56) Aroclor 1268 (2)	9.320	16637	0.599 ng/ml
57) Aroclor 1268 (3)	9.385	14940	0.664 ng/ml
58) Aroclor 1268 (4)	9.598	79996	4.155 ng/ml
59) Aroclor 1268 (5)	9.881	23322	2.981 ng/ml
60) Aroclor 1268 (6)	10.231	133745	2.642 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

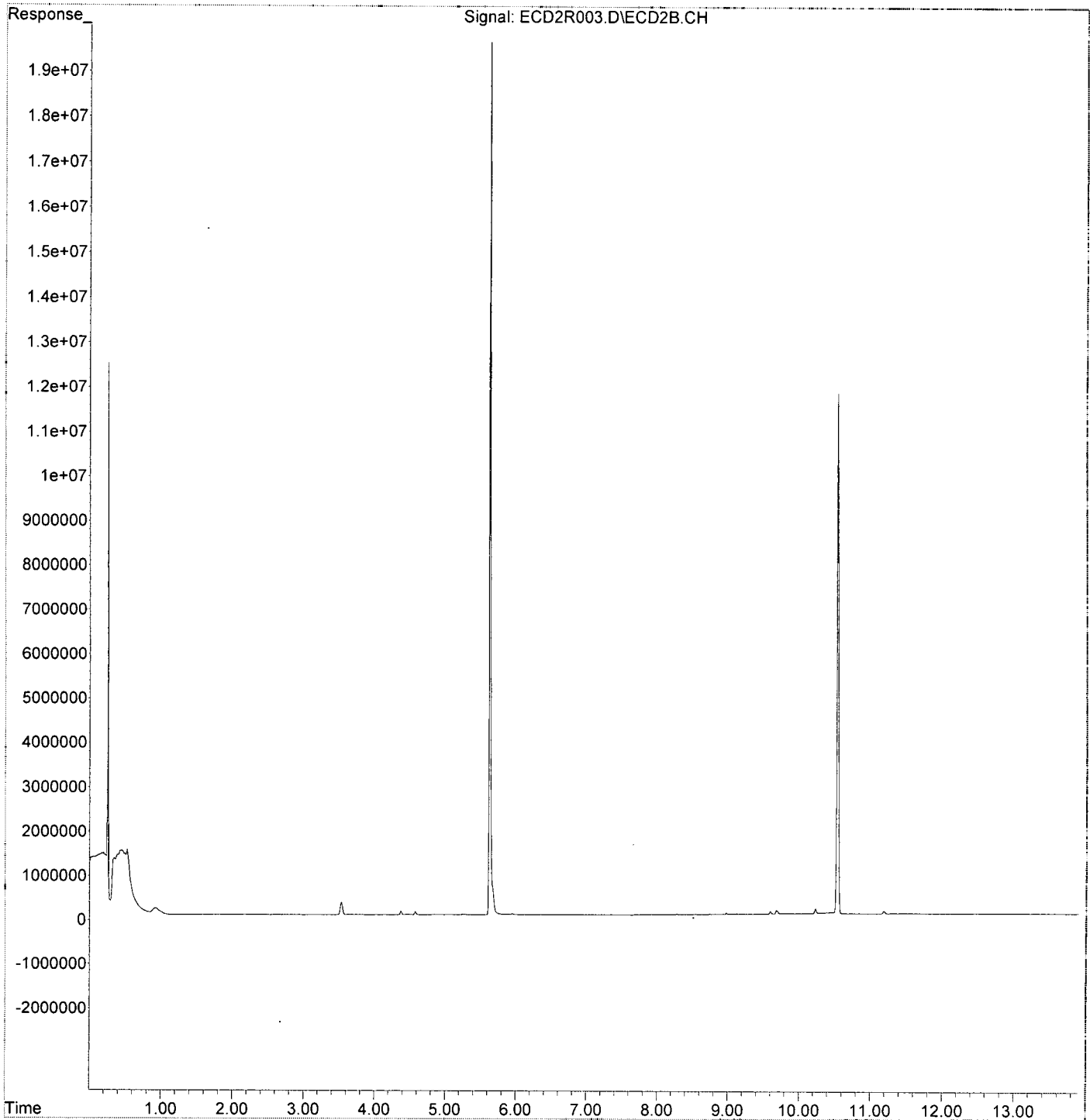
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 8:13
Operator : MJB / KAK
Sample : 0B17022-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:26:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R004.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 9:01
 Operator : MJB / KAK
 Sample : AOB0288-01
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:26:27 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten:
 2/17/20
 1242 P-10
 125A P-10
 1260 P-10

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S TCMX (S)	5.625	41013091	181.775 ng/ml
62) S DCBP (S)	10.543	20418213	183.578 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.297	220779	35.713 ng/ml
3) Aroclor 1016 (2)	6.787	1026326	89.703 ng/ml
4) Aroclor 1016 (3)	6.915	397394	74.189 ng/ml
5) Aroclor 1016 (4)	7.000	1262856	255.600 ng/ml
6) Aroclor 1016 (5)	7.046	1443681	260.333 ng/ml
7) Aroclor 1016 (6)	7.171	939986	164.547 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.789	54431	31.327 ng/ml
10) Aroclor 1221 (2)	5.887	142839	83.192 ng/ml
11) Aroclor 1221 (3)	5.969	208099	36.464 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.969	208099	45.536 ng/ml
14) Aroclor 1232 (2)	6.297	220779	84.826 ng/ml
15) Aroclor 1232 (3)	6.787	1026326	209.799 ng/ml
16) Aroclor 1232 (4)	7.000	1262856	746.441 ng/ml
17) Aroclor 1232 (5)	7.046	1443681	693.796 ng/ml
18) Aroclor 1232 (6)	7.171	939986	433.238 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.297	220779	48.562 ng/ml
21) Aroclor 1242 (2)	6.787	1026326	116.331 ng/ml
22) Aroclor 1242 (3)	6.915	397394	103.754 ng/ml
23) Aroclor 1242 (4)	7.000	1262856	382.268 ng/ml
24) Aroclor 1242 (5)	7.046	1443681	361.469 ng/ml
25) Aroclor 1242 (6)	7.171	939986	225.373 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.760	623865	120.856 ng/ml
28) Aroclor 1248 (2)	7.000	1262856	198.583 ng/ml
29) Aroclor 1248 (3)	7.046	1443681	243.217 ng/ml
30) Aroclor 1248 (4)	7.171	939986	128.845 ng/ml
31) Aroclor 1248 (5)	7.537	1572148	176.611 ng/ml
32) Aroclor 1248 (6)	7.691	3999396	491.253 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.515	1725965	203.681 ng/ml
35) Aroclor 1254 (2)	7.691	3999396	287.523 ng/ml
36) Aroclor 1254 (3)	8.004	2573802	169.615 ng/ml
37) Aroclor 1254 (4)	8.245	1916922	175.599 ng/ml
38) Aroclor 1254 (5)	8.579	3572257	317.572 ng/ml
39) Aroclor 1254 (6)	8.825	1650625	467.973 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.141	2507144	238.144 ng/ml
42) Aroclor 1260 (2)	8.347	3733543	292.541 ng/ml
43) Aroclor 1260 (3)	8.579	3572257	269.377 ng/ml
44) Aroclor 1260 (4)	9.062	3746330	177.111 ng/ml
45) Aroclor 1260 (5)	9.321	2189916	178.992 ng/ml
46) Aroclor 1260 (6)	9.885	731829	149.966 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Handwritten: 89.549

Handwritten: 209.105

Handwritten: 168.690

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R004.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 9:01
 Operator : MJB / KAK
 Sample : AOB0288-01
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:26:27 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.347	3733543	353.164 ng/ml
49) Aroclor 1262 (2)	8.647	1684882	110.285 ng/ml
50) Aroclor 1262 (3)	8.825	1650625	128.913 ng/ml
51) Aroclor 1262 (4)	9.062	3746330	136.108 ng/ml
52) Aroclor 1262 (5)	9.321	2189916	133.372 ng/ml
53) Aroclor 1262 (6)	9.885	731829	101.635 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.868	252046	40.443 ng/ml
56) Aroclor 1268 (2)	9.321	2189916	78.869 ng/ml
57) Aroclor 1268 (3)	9.384	834816	37.076 ng/ml
58) Aroclor 1268 (4)	9.599	137531	7.143 ng/ml
59) Aroclor 1268 (5)	9.885	731829	93.546 ng/ml
60) Aroclor 1268 (6)	10.235	368714	7.285 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

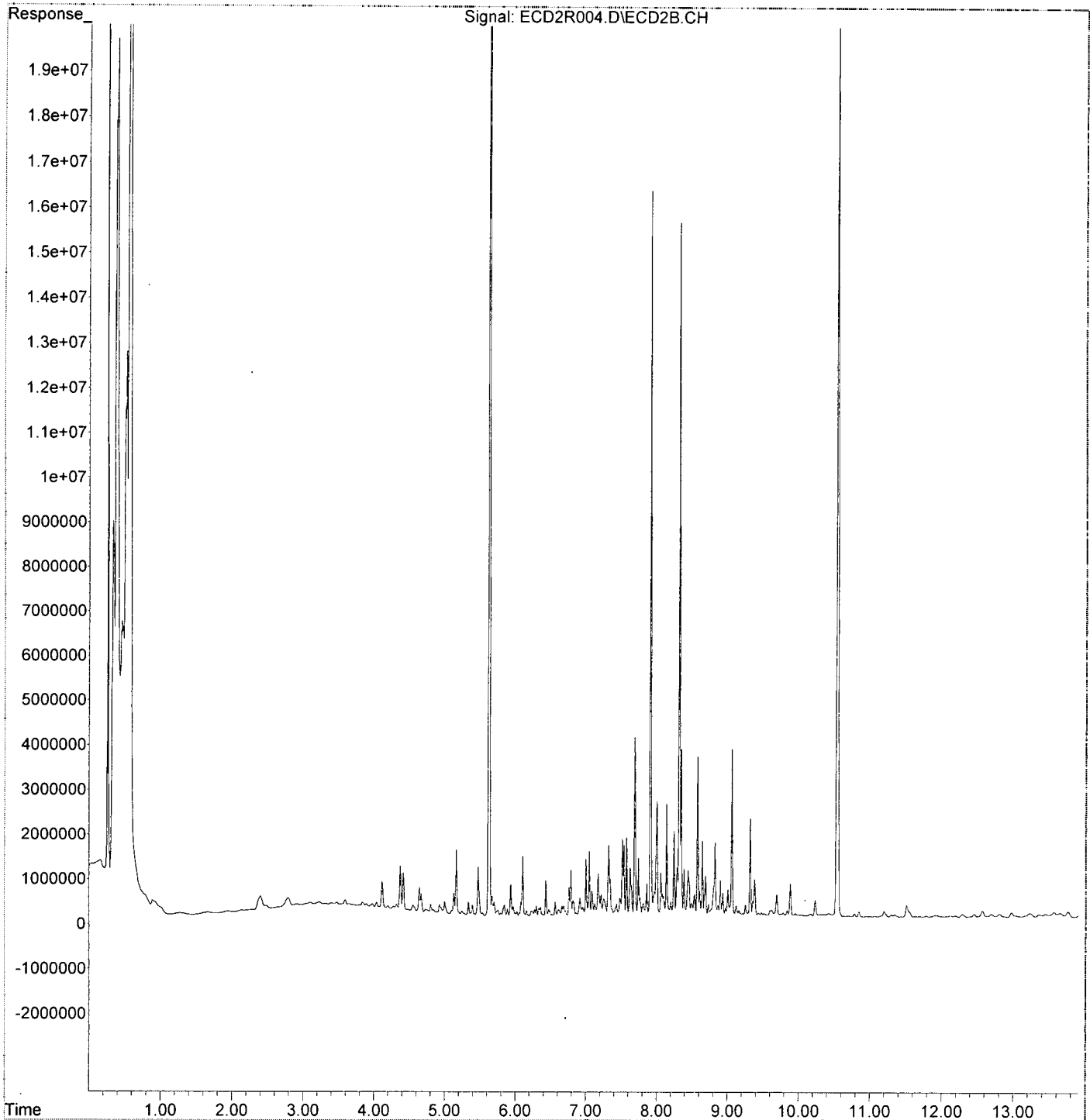
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 9:01
Operator : MJB / KAK
Sample : A0B0288-01
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:26:27 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\OB17022\
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 9:36
 Operator : MJB / KAK
 Sample : 0020360-BLK1
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:26:49 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 2/17/20

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S TCMX (S)	5.628	48577293	215.300 ng/ml
62) S DCBP (S)	10.539	42487776	382.003 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.298	7195	1.164 ng/ml
3) Aroclor 1016 (2)	6.789	8409	0.735 ng/ml
4) Aroclor 1016 (3)	6.917	2978	0.556 ng/ml
5) Aroclor 1016 (4)	7.001	5962	1.207 ng/ml
6) Aroclor 1016 (5)	7.046	6611	1.192 ng/ml
7) Aroclor 1016 (6)	7.171	5827	1.020 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.832	15575	8.964 ng/ml
10) Aroclor 1221 (2)	5.882	11356	6.614 ng/ml
11) Aroclor 1221 (3)	5.934	884181	154.929 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.934	884181	193.475 ng/ml
14) Aroclor 1232 (2)	6.298	7195	2.764 ng/ml
15) Aroclor 1232 (3)	6.789	8409	1.719 ng/ml
16) Aroclor 1232 (4)	7.001	5962	3.524 ng/ml
17) Aroclor 1232 (5)	7.046	6611	3.177 ng/ml
18) Aroclor 1232 (6)	7.171	5827	2.685 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.298	7195	1.583 ng/ml
21) Aroclor 1242 (2)	6.789	8409	0.953 ng/ml
22) Aroclor 1242 (3)	6.917	2978	0.778 ng/ml
23) Aroclor 1242 (4)	7.001	5962	1.805 ng/ml
24) Aroclor 1242 (5)	7.046	6611	1.655 ng/ml
25) Aroclor 1242 (6)	7.171	5827	1.397 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.760	8278	1.604 ng/ml
28) Aroclor 1248 (2)	7.001	5962	0.938 ng/ml
29) Aroclor 1248 (3)	7.046	6611	1.114 ng/ml
30) Aroclor 1248 (4)	7.171	5827	0.799 ng/ml
31) Aroclor 1248 (5)	7.534	2722	0.306 ng/ml
32) Aroclor 1248 (6)	7.694	5604	0.688 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.514	5955	0.703 ng/ml
35) Aroclor 1254 (2)	7.694	5604	0.403 ng/ml
36) Aroclor 1254 (3)	8.005	15035	0.991 ng/ml
37) Aroclor 1254 (4)	8.242	8232	0.754 ng/ml
38) Aroclor 1254 (5)	8.578	17715	1.575 ng/ml
39) Aroclor 1254 (6)	8.824	14259	4.042 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.138	27329	2.596 ng/ml
42) Aroclor 1260 (2)	8.344	24400	1.912 ng/ml
43) Aroclor 1260 (3)	8.578	17715	1.336 ng/ml
44) Aroclor 1260 (4)	9.059	28528	1.349 ng/ml
45) Aroclor 1260 (5)	9.322	20974	1.714 ng/ml
46) Aroclor 1260 (6)	9.922	26624	5.456 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 9:36
 Operator : MJB / KAK
 Sample : 0020360-BLK1
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:26:49 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

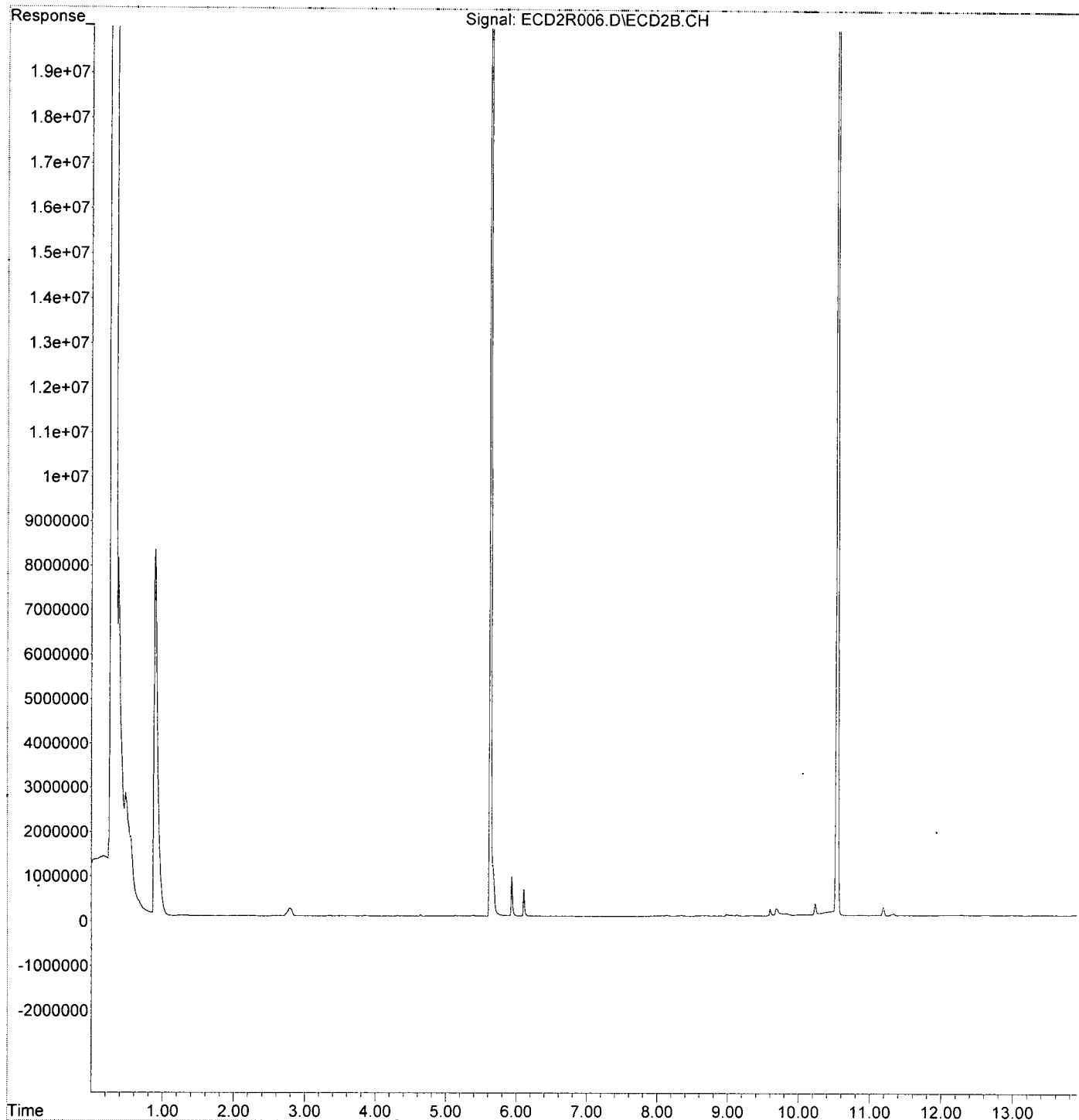
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.344	24400	2.308 ng/ml
49) Aroclor 1262 (2)	8.646	22276	1.458 ng/ml
50) Aroclor 1262 (3)	8.824	14259	1.114 ng/ml
51) Aroclor 1262 (4)	9.059	28528	1.036 ng/ml
52) Aroclor 1262 (5)	9.322	20974	1.277 ng/ml
53) Aroclor 1262 (6)	9.922	26624	3.698 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.868	10814	1.735 ng/ml
56) Aroclor 1268 (2)	9.322	20974	0.755 ng/ml
57) Aroclor 1268 (3)	9.381	14787	0.657 ng/ml
58) Aroclor 1268 (4)	9.598	167365	8.693 ng/ml
59) Aroclor 1268 (5)	9.922	26624	3.403 ng/ml
60) Aroclor 1268 (6)	10.233	287630	5.683 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B17022\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 9:36
Operator : MJB / KAK
Sample : 0020360-BLK1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:26:49 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B17022\
 Data File : ECD2R007.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 9:54
 Operator : MJB / KAK
 Sample : 0020360-BS1
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:27:11 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten: 2/17/20

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S TCMX (S)	5.627	38125743	168.978 ng/ml
62) S DCBP (S)	10.539	39845846	358.250 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.298	3091261	500.044 ng/ml
3) Aroclor 1016 (2)	6.788	6137233	536.408 ng/ml
4) Aroclor 1016 (3)	6.915	1897716	354.282 ng/ml
5) Aroclor 1016 (4)	7.001	3396363	687.417 ng/ml
6) Aroclor 1016 (5)	7.046	3554800	641.022 ng/ml
7) Aroclor 1016 (6)	7.171	2840010	497.151 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.801	165715	95.374 ng/ml
10) Aroclor 1221 (2)	5.876	369463	215.182 ng/ml
11) Aroclor 1221 (3)	5.963	1764121	309.115 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.963	1764121	386.022 ng/ml
14) Aroclor 1232 (2)	6.298	3091261	1187.698 ng/ml
15) Aroclor 1232 (3)	6.788	6137233	1254.555 ng/ml
16) Aroclor 1232 (4)	7.001	3396363	2007.500 ng/ml
17) Aroclor 1232 (5)	7.046	3554800	1708.345 ng/ml
18) Aroclor 1232 (6)	7.171	2840010	1308.956 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.298	3091261	679.946 ng/ml
21) Aroclor 1242 (2)	6.788	6137233	695.638 ng/ml
22) Aroclor 1242 (3)	6.915	1897716	495.465 ng/ml
23) Aroclor 1242 (4)	7.001	3396363	1028.082 ng/ml
24) Aroclor 1242 (5)	7.046	3554800	890.051 ng/ml
25) Aroclor 1242 (6)	7.171	2840010	680.925 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.761	5479866	1061.572 ng/ml
28) Aroclor 1248 (2)	7.001	3396363	534.074 ng/ml
29) Aroclor 1248 (3)	7.046	3554800	598.877 ng/ml
30) Aroclor 1248 (4)	7.171	2840010	389.282 ng/ml
31) Aroclor 1248 (5)	7.536	754943	84.808 ng/ml
32) Aroclor 1248 (6)	7.694	3242801	398.319 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.513	2415748	285.083 ng/ml
35) Aroclor 1254 (2)	7.694	3242801	233.130 ng/ml
36) Aroclor 1254 (3)	8.004	1344891	88.629 ng/ml
37) Aroclor 1254 (4)	8.243	1111620	101.829 ng/ml
38) Aroclor 1254 (5)	8.578	9277302	824.747 ng/ml
39) Aroclor 1254 (6)	8.824	7436308	2108.286 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.139	7780518	739.041 ng/ml
42) Aroclor 1260 (2)	8.346	10799964	846.229 ng/ml
43) Aroclor 1260 (3)	8.578	9277302	699.584 ng/ml
44) Aroclor 1260 (4)	9.061	18980128	897.301 ng/ml
45) Aroclor 1260 (5)	9.319	9777208	799.136 ng/ml
46) Aroclor 1260 (6)	9.882	4456542	913.233 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Handwritten: Q-30

Handwritten checkmarks: ✓ (next to rows 2-7), ✓ (next to rows 41-46)

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R007.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 9:54
 Operator : MJB / KAK
 Sample : 0020360-BS1
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:27:11 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.346	10799964	1021.592 ng/ml
49) Aroclor 1262 (2)	8.646	7741701	506.739 ng/ml
50) Aroclor 1262 (3)	8.824	7436308	580.771 ng/ml
51) Aroclor 1262 (4)	9.061	18980128	689.569 ng/ml
52) Aroclor 1262 (5)	9.319	9777208	595.461 ng/ml
53) Aroclor 1262 (6)	9.882	4456542	618.918 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	589359	94.567 ng/ml
56) Aroclor 1268 (2)	9.319	9777208	352.122 ng/ml
57) Aroclor 1268 (3)	9.382	4467460	198.410 ng/ml
58) Aroclor 1268 (4)	9.597	316221	16.424 ng/ml
59) Aroclor 1268 (5)	9.882	4456542	569.659 ng/ml
60) Aroclor 1268 (6)	10.230	1232475	24.350 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

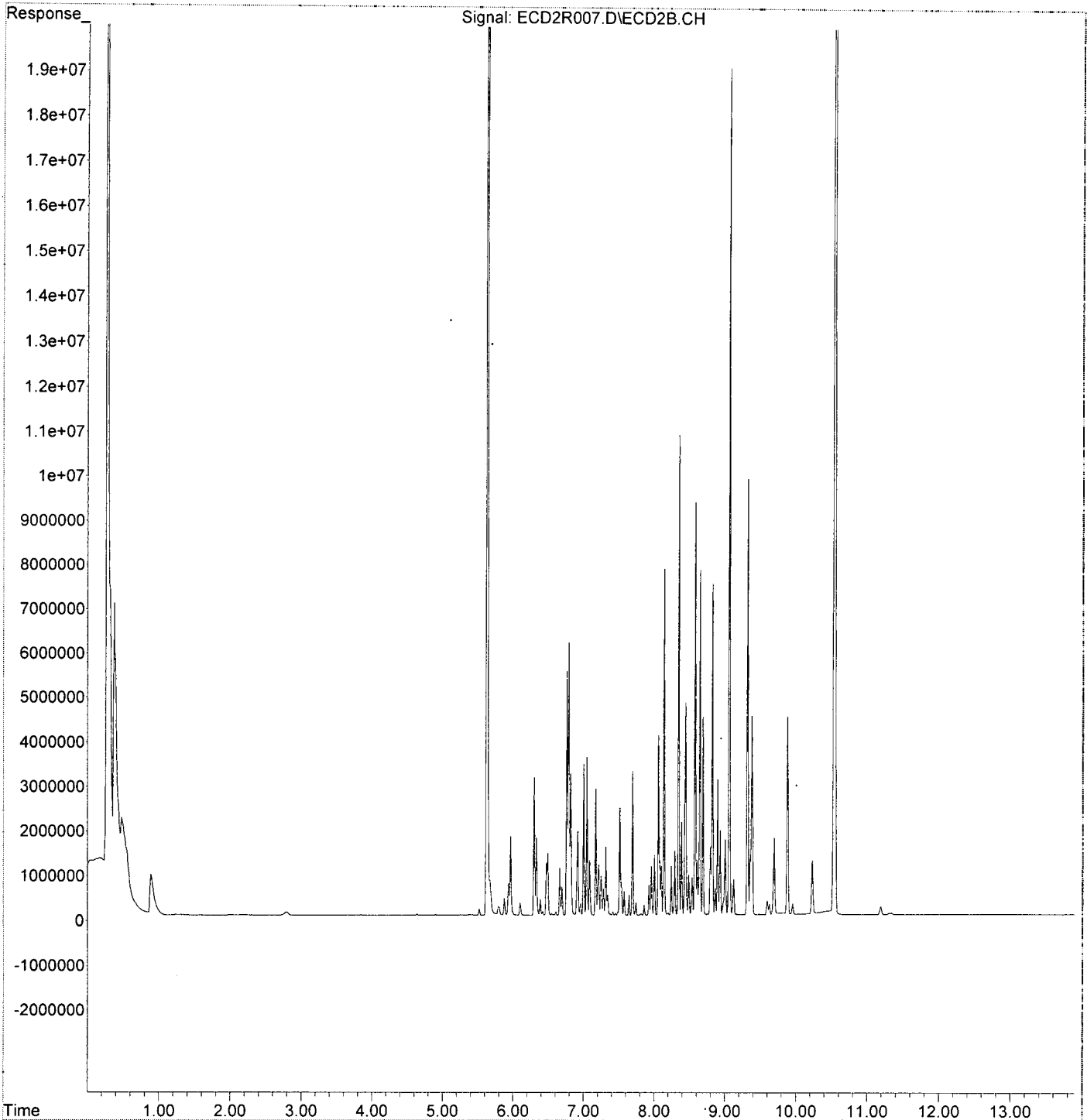
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 9:54
Operator : MJB / KAK
Sample : 0020360-BS1
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:27:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R008.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 10:11
 Operator : MJB / KAK
 Sample : 0020360-BSD1
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:27:33 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten: 2/17/20
 Q-19

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.626	35675478	158.118	ng/ml
62) S DCBP (S)	10.539	41293518	371.266	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.297	3118909	504.516	ng/ml
3) Aroclor 1016 (2)	6.787	6262742	547.378	ng/ml
4) Aroclor 1016 (3)	6.914	1979752	369.598	ng/ml
5) Aroclor 1016 (4)	7.000	3298580	667.626	ng/ml
6) Aroclor 1016 (5)	7.045	3566883	643.201	ng/ml
7) Aroclor 1016 (6)	7.170	2943914	515.339	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.801	172247	99.134	ng/ml
10) Aroclor 1221 (2)	5.875	380005	221.322	ng/ml
11) Aroclor 1221 (3)	5.963	1714251	300.376	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.963	1714251	375.110	ng/ml
14) Aroclor 1232 (2)	6.297	3118909	1198.321	ng/ml
15) Aroclor 1232 (3)	6.787	6262742	1280.211	ng/ml
16) Aroclor 1232 (4)	7.000	3298580	1949.703	ng/ml
17) Aroclor 1232 (5)	7.045	3566883	1714.151	ng/ml
18) Aroclor 1232 (6)	7.170	2943914	1356.846	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.297	3118909	686.028	ng/ml
21) Aroclor 1242 (2)	6.787	6262742	709.864	ng/ml
22) Aroclor 1242 (3)	6.914	1979752	516.884	ng/ml
23) Aroclor 1242 (4)	7.000	3298580	998.483	ng/ml
24) Aroclor 1242 (5)	7.045	3566883	893.076	ng/ml
25) Aroclor 1242 (6)	7.170	2943914	705.837	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.759	5206581	1008.631	ng/ml
28) Aroclor 1248 (2)	7.000	3298580	518.698	ng/ml
29) Aroclor 1248 (3)	7.045	3566883	600.913	ng/ml
30) Aroclor 1248 (4)	7.170	2943914	403.524	ng/ml
31) Aroclor 1248 (5)	7.535	775457	87.113	ng/ml
32) Aroclor 1248 (6)	7.694	3233147	397.133	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.512	2459582	290.256	ng/ml
35) Aroclor 1254 (2)	7.694	3233147	232.436	ng/ml
36) Aroclor 1254 (3)	8.004	1465476	96.576	ng/ml
37) Aroclor 1254 (4)	8.243	1160190	106.279	ng/ml
38) Aroclor 1254 (5)	8.578	9798500	871.081	ng/ml
39) Aroclor 1254 (6)	8.823	7688364	2179.747	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.139	8177718	776.769	ng/ml
42) Aroclor 1260 (2)	8.346	11125531	871.739	ng/ml
43) Aroclor 1260 (3)	8.578	9798500	738.887	ng/ml
44) Aroclor 1260 (4)	9.060	20139621	952.117	ng/ml
45) Aroclor 1260 (5)	9.318	10622911	868.259	ng/ml
46) Aroclor 1260 (6)	9.882	4575160	937.541	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Handwritten: Q-30

Data Path : K:\DATA\0B17022\
 Data File : ECD2R008.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 10:11
 Operator : MJB / KAK
 Sample : 0020360-BSD1
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:27:33 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

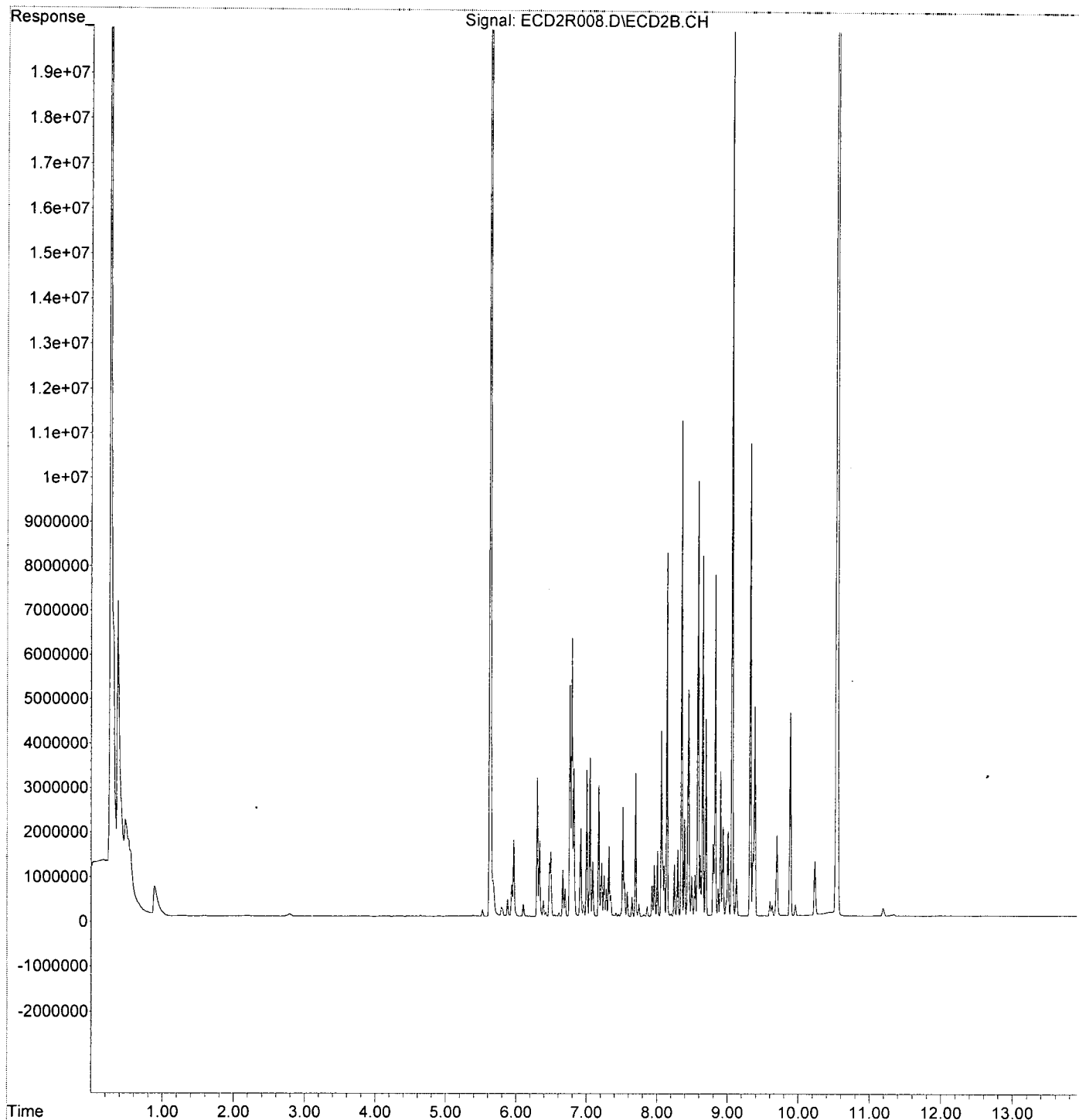
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	8.346	11125531	1052.389	ng/ml
49) Aroclor 1262 (2)	8.646	8121795	531.618	ng/ml
50) Aroclor 1262 (3)	8.823	7688364	600.456	ng/ml
51) Aroclor 1262 (4)	9.060	20139621	731.695	ng/ml
52) Aroclor 1262 (5)	9.318	10622911	646.967	ng/ml
53) Aroclor 1262 (6)	9.882	4575160	635.392	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.864	621547	99.732	ng/ml
56) Aroclor 1268 (2)	9.318	10622911	382.580	ng/ml
57) Aroclor 1268 (3)	9.381	4723740	209.792	ng/ml
58) Aroclor 1268 (4)	9.596	333558	17.325	ng/ml
59) Aroclor 1268 (5)	9.882	4575160	584.821	ng/ml
60) Aroclor 1268 (6)	10.229	1240013	24.499	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B17022\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 10:11
Operator : MJB / KAK
Sample : 0020360-BSD1
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:27:33 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B17022\
 Data File : ECD2R013.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 11:39
 Operator : MJB / KAK
 Sample : 0B17022-CCV2
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:29:23 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 2/17/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.627	54784057	242.809	ng/ml
62) S DCBP (S)	10.539	31057285	279.233	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.297	3089477	499.755	ng/ml
3) Aroclor 1016 (2)	6.789	5173540	452.179	ng/ml
4) Aroclor 1016 (3)	6.915	2344732	437.735	ng/ml
5) Aroclor 1016 (4)	7.001	2511275	508.277	ng/ml
6) Aroclor 1016 (5)	7.046	2837616	511.695	ng/ml
7) Aroclor 1016 (6)	7.171	2779328	486.528	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.788	265231	152.649	ng/ml
10) Aroclor 1221 (2)	5.876	415323	241.892	ng/ml
11) Aroclor 1221 (3)	5.964	1822475	319.340	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.964	1822475	398.791	ng/ml
14) Aroclor 1232 (2)	6.297	3089477	1187.013	ng/ml
15) Aroclor 1232 (3)	6.789	5173540	1057.560	ng/ml
16) Aroclor 1232 (4)	7.001	2511275	1484.348	ng/ml
17) Aroclor 1232 (5)	7.046	2837616	1363.684	ng/ml
18) Aroclor 1232 (6)	7.171	2779328	1280.988	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.297	3089477	679.554	ng/ml
21) Aroclor 1242 (2)	6.789	5173540	586.406	ng/ml
22) Aroclor 1242 (3)	6.915	2344732	612.174	ng/ml
23) Aroclor 1242 (4)	7.001	2511275	760.165	ng/ml
24) Aroclor 1242 (5)	7.046	2837616	710.482	ng/ml
25) Aroclor 1242 (6)	7.171	2779328	666.376	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.761	4351384	842.960	ng/ml
28) Aroclor 1248 (2)	7.001	2511275	394.895	ng/ml
29) Aroclor 1248 (3)	7.046	2837616	478.053	ng/ml
30) Aroclor 1248 (4)	7.171	2779328	380.964	ng/ml
31) Aroclor 1248 (5)	7.537	654226	73.494	ng/ml
32) Aroclor 1248 (6)	7.694	2380298	292.376	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.512	2018093	238.155	ng/ml
35) Aroclor 1254 (2)	7.694	2380298	171.123	ng/ml
36) Aroclor 1254 (3)	8.005	1358927	89.554	ng/ml
37) Aroclor 1254 (4)	8.244	977781	89.569	ng/ml
38) Aroclor 1254 (5)	8.578	7177406	638.068	ng/ml
39) Aroclor 1254 (6)	8.823	5328336	1510.649	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.140	5686447	540.133	ng/ml
42) Aroclor 1260 (2)	8.346	7167704	561.624	ng/ml
43) Aroclor 1260 (3)	8.578	7177406	541.235	ng/ml
44) Aroclor 1260 (4)	9.061	12266198	579.894	ng/ml
45) Aroclor 1260 (5)	9.318	7103684	580.616	ng/ml
46) Aroclor 1260 (6)	9.881	2720878	557.562	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0B17022\
 Data File : ECD2R013.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 11:39
 Operator : MJB / KAK
 Sample : 0B17022-CCV2
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:29:23 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

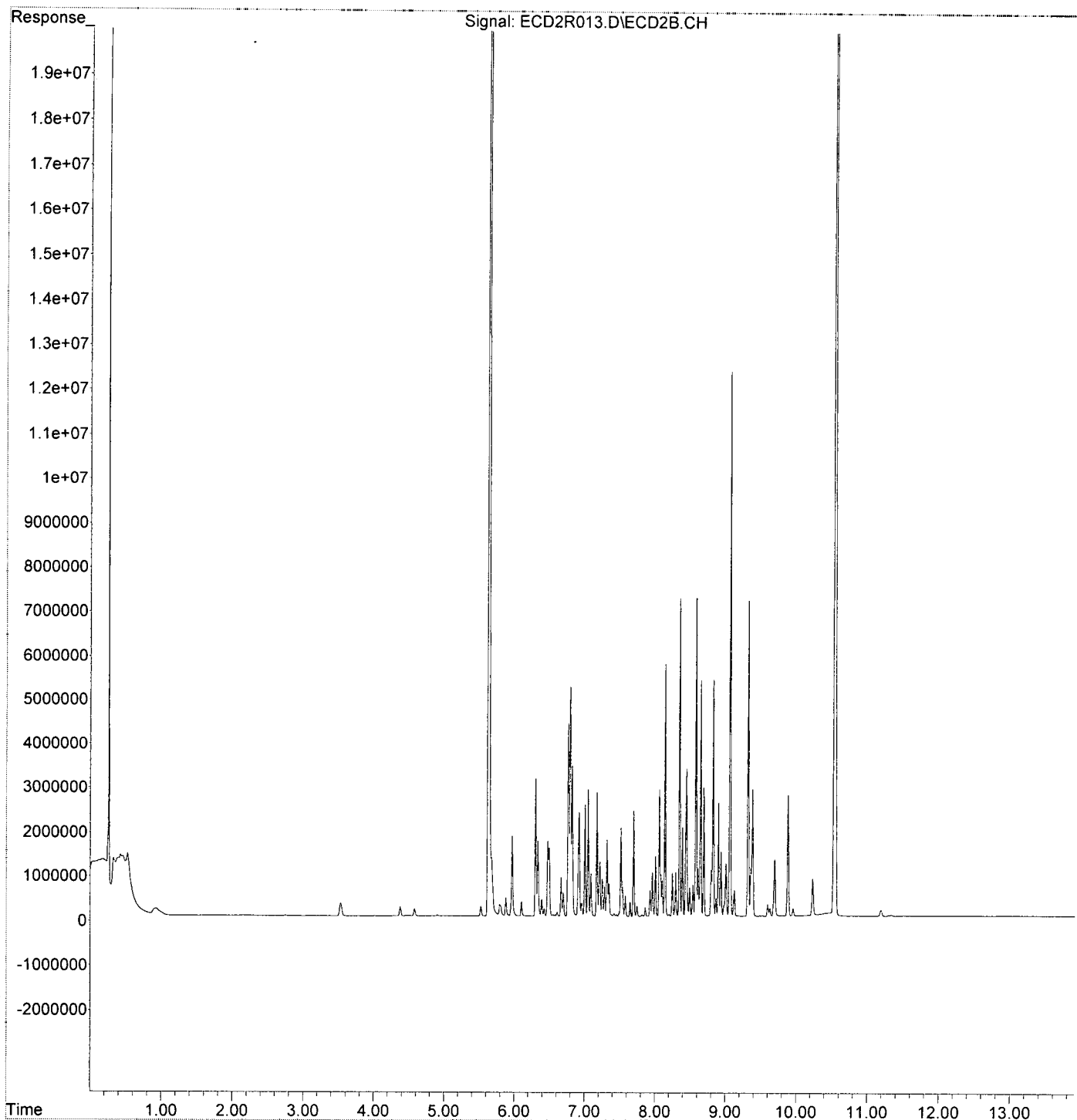
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.346	7167704	678.009 ng/ml
49) Aroclor 1262 (2)	8.645	5313891	347.825 ng/ml
50) Aroclor 1262 (3)	8.823	5328336	416.140 ng/ml
51) Aroclor 1262 (4)	9.061	12266198	445.645 ng/ml
52) Aroclor 1262 (5)	9.318	7103684	432.636 ng/ml
53) Aroclor 1262 (6)	9.881	2720878	377.872 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	412487	66.187 ng/ml
56) Aroclor 1268 (2)	9.318	7103684	255.836 ng/ml
57) Aroclor 1268 (3)	9.382	2853643	126.737 ng/ml
58) Aroclor 1268 (4)	9.596	269779	14.012 ng/ml
59) Aroclor 1268 (5)	9.881	2720878	347.797 ng/ml
60) Aroclor 1268 (6)	10.229	855631	16.905 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B17022\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 11:39
Operator : MJB / KAK
Sample : 0B17022-CCV2
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:29:23 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B17022\
 Data File : ECD2R014.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 11:57
 Operator : MJB / KAK
 Sample : 0B17022-CCB2
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:29:44 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 2/17/20
 Clean

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.627	19964854	88.487 ng/ml
62) S DCBP (S)	10.539	12134277	109.098 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.301	1325	0.214 ng/ml
3) Aroclor 1016 (2)	6.781	860	0.075 ng/ml
4) Aroclor 1016 (3)	6.912	1115	0.208 ng/ml
5) Aroclor 1016 (4)	7.007	1242	0.251 ng/ml
6) Aroclor 1016 (5)	7.052	1600	0.289 ng/ml
7) Aroclor 1016 (6)	7.176	1300	0.227 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.825	11161	6.424 ng/ml
10) Aroclor 1221 (2)	5.876	8548	4.978 ng/ml
11) Aroclor 1221 (3)	5.983	5843	1.024 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.947	32771	7.171 ng/ml
14) Aroclor 1232 (2)	6.301	1325	0.509 ng/ml
15) Aroclor 1232 (3)	6.781	860	0.176 ng/ml
16) Aroclor 1232 (4)	7.007	1242	0.734 ng/ml
17) Aroclor 1232 (5)	7.052	1600	0.769 ng/ml
18) Aroclor 1232 (6)	7.176	1300	0.599 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.301	1325	0.291 ng/ml
21) Aroclor 1242 (2)	6.781	860	0.097 ng/ml
22) Aroclor 1242 (3)	6.912	1115	0.291 ng/ml
23) Aroclor 1242 (4)	7.007	1242	0.376 ng/ml
24) Aroclor 1242 (5)	7.052	1600	0.401 ng/ml
25) Aroclor 1242 (6)	7.176	1300	0.312 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.759	899	0.174 ng/ml
28) Aroclor 1248 (2)	7.007	1242	0.195 ng/ml
29) Aroclor 1248 (3)	7.052	1600	0.270 ng/ml
30) Aroclor 1248 (4)	7.176	1300	0.178 ng/ml
31) Aroclor 1248 (5)	7.536	1031	0.116 ng/ml
32) Aroclor 1248 (6)	7.698	1453	0.178 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.513	1074	0.127 ng/ml
35) Aroclor 1254 (2)	7.698	1453	0.104 ng/ml
36) Aroclor 1254 (3)	8.009	4623	0.305 ng/ml
37) Aroclor 1254 (4)	8.246	2303	0.211 ng/ml
38) Aroclor 1254 (5)	8.576	4558	0.405 ng/ml
39) Aroclor 1254 (6)	8.821	2649	0.751 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.142	3743	0.355 ng/ml
42) Aroclor 1260 (2)	8.345	6326	0.496 ng/ml
43) Aroclor 1260 (3)	8.576	4558	0.344 ng/ml
44) Aroclor 1260 (4)	9.062	4531	0.214 ng/ml
45) Aroclor 1260 (5)	9.321	5273	0.431 ng/ml
46) Aroclor 1260 (6)	9.885	7260	1.488 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0B17022\
 Data File : ECD2R014.D
 Signal(s) : ECD2B.CH
 Acq On : 17 Feb 2020 11:57
 Operator : MJB / KAK
 Sample : 0B17022-CCB2
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 17 15:29:44 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

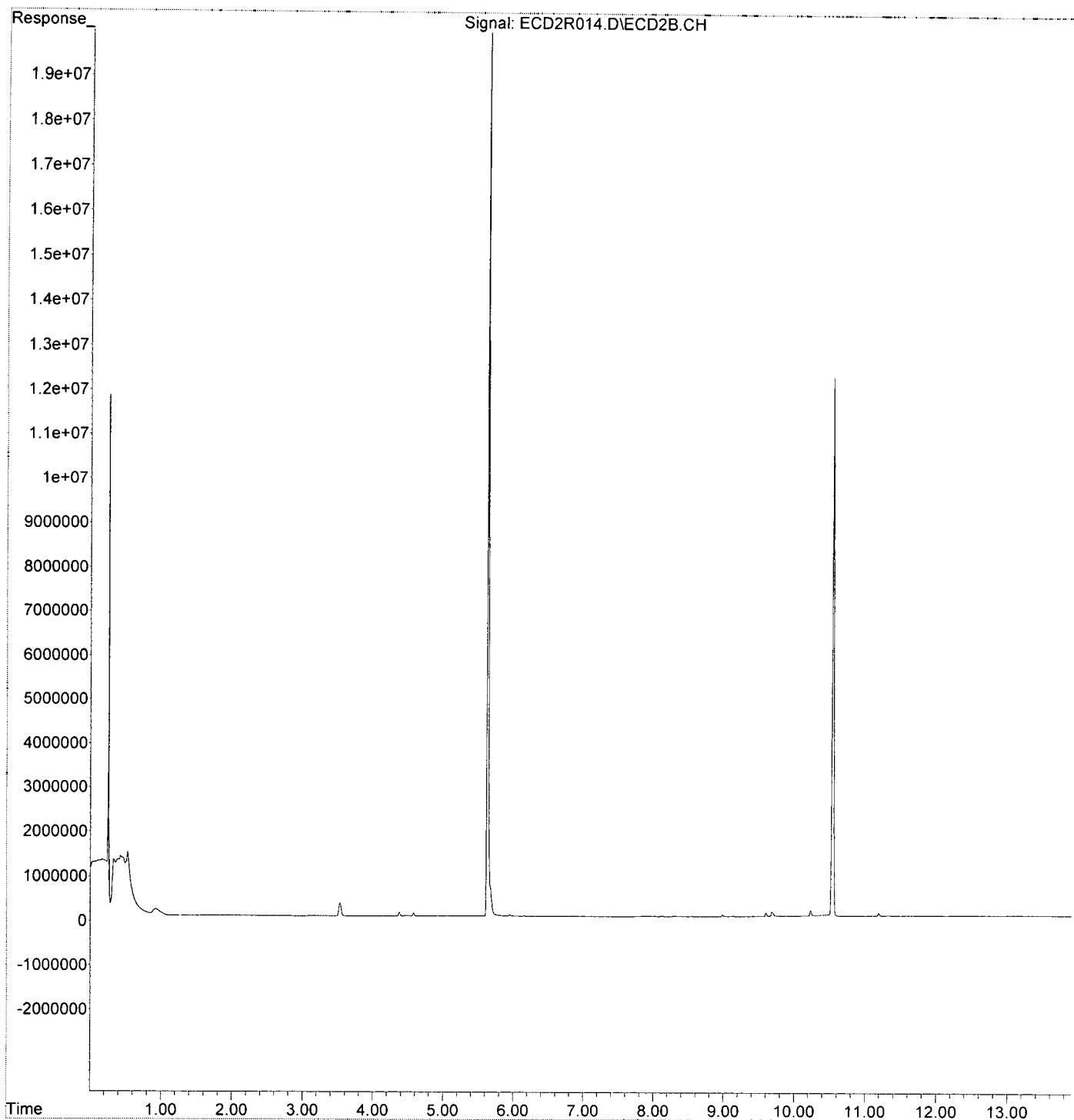
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.345	6326	0.598 ng/ml
49) Aroclor 1262 (2)	8.642	2730	0.179 ng/ml
50) Aroclor 1262 (3)	8.821	2649	0.207 ng/ml
51) Aroclor 1262 (4)	9.062	4531	0.165 ng/ml
52) Aroclor 1262 (5)	9.321	5273	0.321 ng/ml
53) Aroclor 1262 (6)	9.885	7260	1.008 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.866	1426	0.229 ng/ml
56) Aroclor 1268 (2)	9.321	5273	0.190 ng/ml
57) Aroclor 1268 (3)	9.385	2235	0.099 ng/ml
58) Aroclor 1268 (4)	9.597	85361	4.434 ng/ml
59) Aroclor 1268 (5)	9.885	7260	0.928 ng/ml
60) Aroclor 1268 (6)	10.230	131067	2.589 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B17022\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 17 Feb 2020 11:57
Operator : MJB / KAK
Sample : 0B17022-CCB2
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 17 15:29:44 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Polychlorinated Biphenyls by EPA 8082A
Benchsheet & Analysis Sequence Data**

Sequence 0B12052 (QC Only)



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **OB12052**

Instrument: **DUALECD2R**

Date: **02/12/20 15:46**

Calibration: **A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	OB12052-CCV1	Sediment	QC	QC				A20A394
2	OB12052-CCB1	Sediment	QC	QC				A20A395
3	0020348-BLK1	Sediment	QC	QC		0020348		
4	0020348-BS1	Sediment	QC	QC		0020348		
5	A0A1011-04RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020348		
6	OB12052-IBL1	Sediment	QC	QC				
7	0020348-DUP1	Sediment	QC	QC		0020348		
8	OB12052-IBL2	Sediment	QC	QC				
9	A0A1011-05RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020348		
10	OB12052-IBL3	Sediment	QC	QC				
11	A0A1011-06RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	02/13/20	0020348		
12	OB12052-IBL4	Sediment	QC	QC				
13	0020348-MS1	Sediment	QC	QC		0020348		
14	OB12052-IBL5	Sediment	QC	QC				
15	OB12052-CCV2	Sediment	QC	QC				A20A394
16	OB12052-CCB2	Sediment	QC	QC				A20A395

Data Entered By: *[Signature]* 2/13/20

Comments:

Data Reviewed By: *[Signature]* 2/13/20

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0B12052-CCV1

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	473.51
1016 (2)	457.28
1016 (3)	431.18
1016 (4)	471.47
1016 (5)	497.27
1016 (6)	464.00
Average:	465.79

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	529.46
1260 (2)	538.16
1260 (3)	539.86
1260 (4)	554.50
1260 (5)	536.10
1260 (6)	524.42
Average:	537.08

0020348-BS1

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	844.58
1016 (2)	871.01
1016 (3)	759.97
1016 (4)	971.93
1016 (5)	911.75
1016 (6)	860.67
Average:	869.99

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	1,033.26
1260 (2)	1,158.94
1260 (3)	1,084.94
1260 (4)	1,227.51
1260 (5)	1,194.50
1260 (6)	1,178.84
Average:	1,146.33

TOTAL AROCLOR AVERAGE RESULTS

The average result for the 1016 and 1260 selected peaks are reported here to facilitate data entry and review. Averages are done on all individual peaks and must be for matrix spikes if all peaks are not used in the average.

0020348-MS1

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	812.68
1016 (2)	827.09
1016 (3)	729.37
1016 (4)	914.11
1016 (5)	923.77
1016 (6)	783.49
Average:	831.75 ✓

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	1,024.76
1260 (2)	1,128.77
1260 (3)	1,022.51
1260 (4)	1,168.35
1260 (5)	1,085.27
1260 (6)	1,116.05
Average:	1,090.95 ✓

0B12052-CCV2

Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	507.37
1016 (2)	465.23
1016 (3)	448.23
1016 (4)	537.92
1016 (5)	525.92
1016 (6)	502.57
Average:	497.87 ✓

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	544.26
1260 (2)	547.62
1260 (3)	552.80
1260 (4)	574.27
1260 (5)	584.73
1260 (6)	562.68
Average:	561.06 ✓

Data Path : K:\DATA\0B12052\
 Data File : ECD2R002.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:07
 Operator : MJB / KAK
 Sample : 0B12052-CCV1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:16:28 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 2/13/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.627	52839140	234.189	ng/ml
62) S DCBP (S)	10.541	30559141	274.754	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.298	2927242	473.512	ng/ml
3) Aroclor 1016 (2)	6.789	5231866	457.277	ng/ml
4) Aroclor 1016 (3)	6.916	2309644	431.185	ng/ml
5) Aroclor 1016 (4)	7.001	2329418	471.470	ng/ml
6) Aroclor 1016 (5)	7.046	2757632	497.272	ng/ml
7) Aroclor 1016 (6)	7.171	2650654	464.003	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.801	222471	128.039	ng/ml
10) Aroclor 1221 (2)	5.876	405038	235.902	ng/ml
11) Aroclor 1221 (3)	5.963	1761486	308.653	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.963	1761486	385.446	ng/ml
14) Aroclor 1232 (2)	6.298	2927242	1124.680	ng/ml
15) Aroclor 1232 (3)	6.789	5231866	1069.483	ng/ml
16) Aroclor 1232 (4)	7.001	2329418	1376.857	ng/ml
17) Aroclor 1232 (5)	7.046	2757632	1325.246	ng/ml
18) Aroclor 1232 (6)	7.171	2650654	1221.683	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.298	2927242	643.869	ng/ml
21) Aroclor 1242 (2)	6.789	5231866	593.017	ng/ml
22) Aroclor 1242 (3)	6.916	2309644	603.014	ng/ml
23) Aroclor 1242 (4)	7.001	2329418	705.117	ng/ml
24) Aroclor 1242 (5)	7.046	2757632	690.456	ng/ml
25) Aroclor 1242 (6)	7.171	2650654	635.525	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.761	4261465	825.541	ng/ml
28) Aroclor 1248 (2)	7.001	2329418	366.298	ng/ml
29) Aroclor 1248 (3)	7.046	2757632	464.578	ng/ml
30) Aroclor 1248 (4)	7.171	2650654	363.327	ng/ml
31) Aroclor 1248 (5)	7.537	631290	70.917	ng/ml
32) Aroclor 1248 (6)	7.694	2260270	277.633	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.513	1910085	225.409	ng/ml
35) Aroclor 1254 (2)	7.694	2260270	162.494	ng/ml
36) Aroclor 1254 (3)	8.005	1304482	85.966	ng/ml
37) Aroclor 1254 (4)	8.244	918889	84.174	ng/ml
38) Aroclor 1254 (5)	8.578	7159217	636.451	ng/ml
39) Aroclor 1254 (6)	8.824	5035023	1427.492	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.140	5574113	529.463	ng/ml
42) Aroclor 1260 (2)	8.346	6868200	538.156	ng/ml
43) Aroclor 1260 (3)	8.578	7159217	539.863	ng/ml
44) Aroclor 1260 (4)	9.060	11728951	554.495	ng/ml
45) Aroclor 1260 (5)	9.319	6559092	536.104	ng/ml
46) Aroclor 1260 (6)	9.883	2559153	524.421	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Data Path : K:\DATA\0B12052\
 Data File : ECD2R002.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:07
 Operator : MJB / KAK
 Sample : 0B12052-CCV1
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:16:28 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

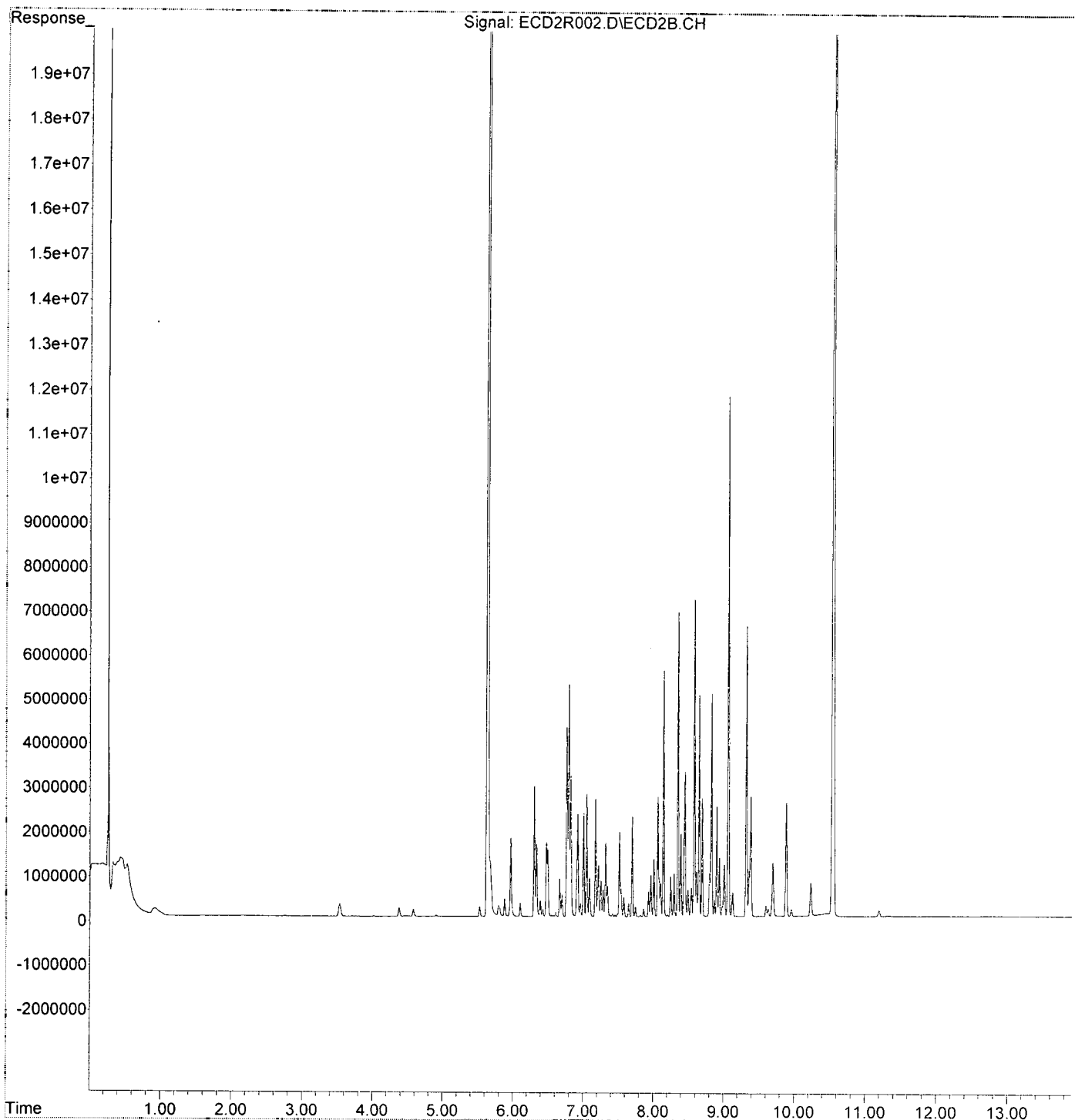
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.346	6868200	649.678 ng/ml
49) Aroclor 1262 (2)	8.646	5003980	327.539 ng/ml
50) Aroclor 1262 (3)	8.824	5035023	393.232 ng/ml
51) Aroclor 1262 (4)	9.060	11728951	426.126 ng/ml
52) Aroclor 1262 (5)	9.319	6559092	399.468 ng/ml
53) Aroclor 1262 (6)	9.883	2559153	355.412 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	382643	61.398 ng/ml
56) Aroclor 1268 (2)	9.319	6559092	236.223 ng/ml
57) Aroclor 1268 (3)	9.381	2701599	119.984 ng/ml
58) Aroclor 1268 (4)	9.597	247037	12.831 ng/ml
59) Aroclor 1268 (5)	9.883	2559153	327.124 ng/ml
60) Aroclor 1268 (6)	10.231	771193	15.236 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B12052\
Data File : ECD2R002.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 16:07
Operator : MJB / KAK
Sample : 0B12052-CCV1
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:16:28 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B12052\
 Data File : ECD2R003.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:24
 Operator : MJB / KAK
 Sample : 0B12052-CCB1
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:16:49 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 2/13/20
 Clean

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S TCMX (S)	5.626	19229535	85.227 ng/ml
62) S DCBP (S)	10.539	11721127	105.383 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.306	1272	0.206 ng/ml
3) Aroclor 1016 (2)	6.786	1092	0.095 ng/ml
4) Aroclor 1016 (3)	6.914	923	0.172 ng/ml
5) Aroclor 1016 (4)	7.005	1348	0.273 ng/ml
6) Aroclor 1016 (5)	7.051	1341	0.242 ng/ml
7) Aroclor 1016 (6)	7.175	1087	0.190 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.817	11736	6.755 ng/ml
10) Aroclor 1221 (2)	5.879	8629	5.026 ng/ml
11) Aroclor 1221 (3)	5.946	31374	5.497 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.946	31374	6.865 ng/ml
14) Aroclor 1232 (2)	6.306	1272	0.489 ng/ml
15) Aroclor 1232 (3)	6.786	1092	0.223 ng/ml
16) Aroclor 1232 (4)	7.005	1348	0.797 ng/ml
17) Aroclor 1232 (5)	7.045	1319	0.634 ng/ml
18) Aroclor 1232 (6)	7.175	1087	0.501 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.306	1272	0.280 ng/ml
21) Aroclor 1242 (2)	6.786	1092	0.124 ng/ml
22) Aroclor 1242 (3)	6.914	923	0.241 ng/ml
23) Aroclor 1242 (4)	7.005	1348	0.408 ng/ml
24) Aroclor 1242 (5)	7.045	1319	0.330 ng/ml
25) Aroclor 1242 (6)	7.175	1087	0.261 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.767	1126	0.218 ng/ml
28) Aroclor 1248 (2)	7.005	1348	0.212 ng/ml
29) Aroclor 1248 (3)	7.045	1319	0.222 ng/ml
30) Aroclor 1248 (4)	7.175	1087	0.149 ng/ml
31) Aroclor 1248 (5)	7.538	772	0.087 ng/ml
32) Aroclor 1248 (6)	7.707	1531	0.188 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.520	813	0.096 ng/ml
35) Aroclor 1254 (2)	7.707	1531	0.110 ng/ml
36) Aroclor 1254 (3)	8.009	4772	0.315 ng/ml
37) Aroclor 1254 (4)	8.246	2391	0.219 ng/ml
38) Aroclor 1254 (5)	8.573	5411	0.481 ng/ml
39) Aroclor 1254 (6)	8.813	3221	0.913 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.143	3214	0.305 ng/ml
42) Aroclor 1260 (2)	8.338	7276	0.570 ng/ml
43) Aroclor 1260 (3)	8.573	5411	0.408 ng/ml
44) Aroclor 1260 (4)	9.059	4604	0.218 ng/ml
45) Aroclor 1260 (5)	9.320	5282	0.432 ng/ml
46) Aroclor 1260 (6)	9.883	6836	1.401 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0B12052\
 Data File : ECD2R003.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:24
 Operator : MJB / KAK
 Sample : 0B12052-CCB1
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:16:49 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

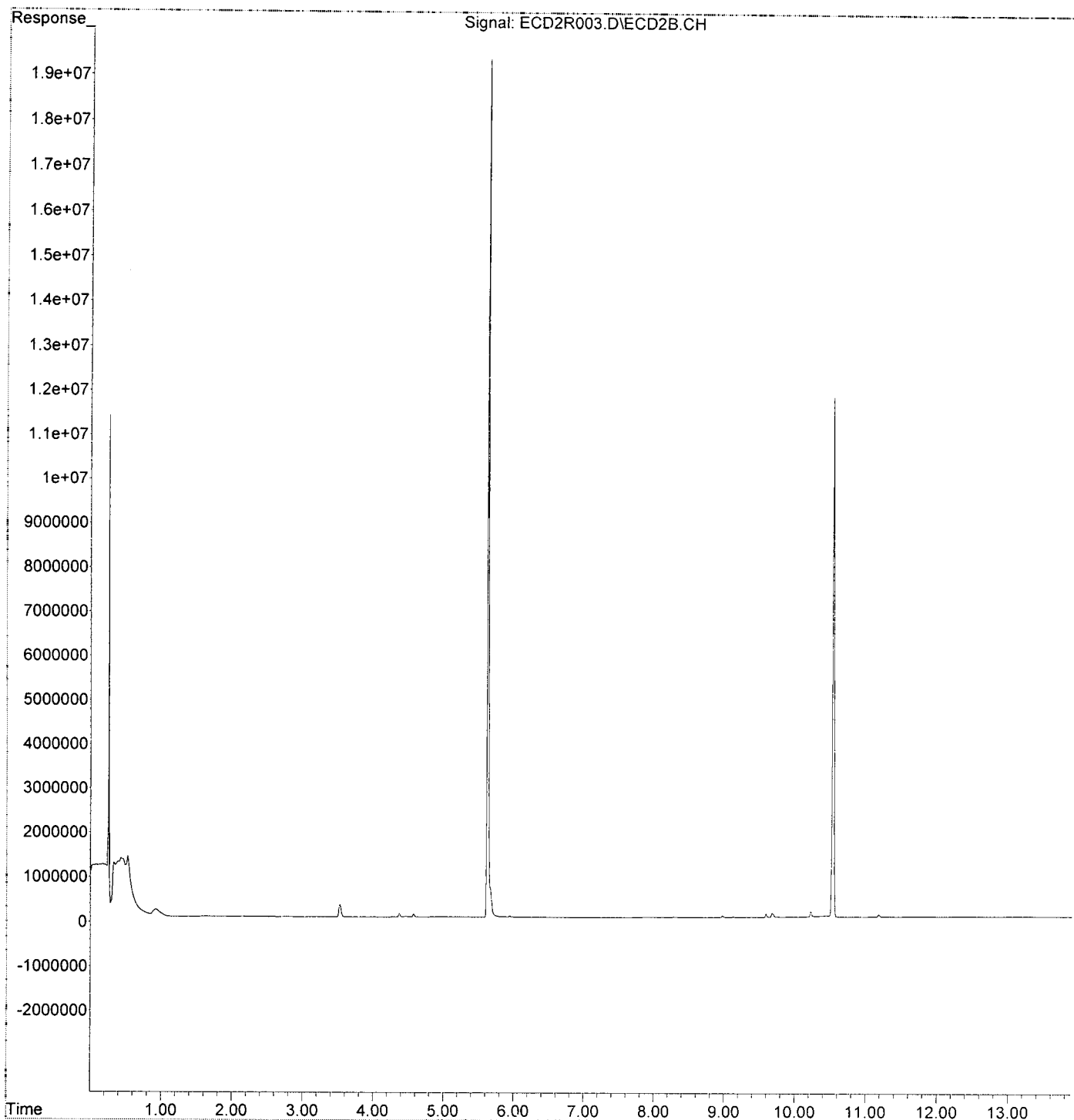
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.338	7276	0.688 ng/ml
49) Aroclor 1262 (2)	8.642	3445	0.226 ng/ml
50) Aroclor 1262 (3)	8.828	3423	0.267 ng/ml
51) Aroclor 1262 (4)	9.059	4604	0.167 ng/ml
52) Aroclor 1262 (5)	9.320	5282	0.322 ng/ml
53) Aroclor 1262 (6)	9.883	6836	0.949 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	2227	0.357 ng/ml
56) Aroclor 1268 (2)	9.320	5282	0.190 ng/ml
57) Aroclor 1268 (3)	9.384	2373	0.105 ng/ml
58) Aroclor 1268 (4)	9.597	76787	3.988 ng/ml
59) Aroclor 1268 (5)	9.883	6836	0.874 ng/ml
60) Aroclor 1268 (6)	10.231	124628	2.462 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B12052\
Data File : ECD2R003.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 16:24
Operator : MJB / KAK
Sample : 0B12052-CCB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:16:49 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B12052\
 Data File : ECD2R004.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:42
 Operator : MJB / KAK
 Sample : 0020348-BLK1
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:17:08 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB
 2/13/20
Alan

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.627	27111845	120.163 ng/ml
62) S DCBP (S)	10.540	26184356	235.421 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.297	3140	0.508 ng/ml
3) Aroclor 1016 (2)	6.791	2748	0.240 ng/ml
4) Aroclor 1016 (3)	6.917	1834	0.342 ng/ml
5) Aroclor 1016 (4)	7.001	2206	0.446 ng/ml
6) Aroclor 1016 (5)	7.048	2361	0.426 ng/ml
7) Aroclor 1016 (6)	7.172	2002	0.350 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.814	12813	7.374 ng/ml
10) Aroclor 1221 (2)	5.889	8591	5.004 ng/ml
11) Aroclor 1221 (3)	5.934	542769	95.106 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.934	542769	118.768 ng/ml
14) Aroclor 1232 (2)	6.297	3140	1.206 ng/ml
15) Aroclor 1232 (3)	6.791	2748	0.562 ng/ml
16) Aroclor 1232 (4)	7.001	2206	1.304 ng/ml
17) Aroclor 1232 (5)	7.048	2361	1.135 ng/ml
18) Aroclor 1232 (6)	7.172	2002	0.923 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.297	3140	0.691 ng/ml
21) Aroclor 1242 (2)	6.791	2748	0.312 ng/ml
22) Aroclor 1242 (3)	6.917	1834	0.479 ng/ml
23) Aroclor 1242 (4)	7.001	2206	0.668 ng/ml
24) Aroclor 1242 (5)	7.048	2361	0.591 ng/ml
25) Aroclor 1242 (6)	7.172	2002	0.480 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.761	3135	0.607 ng/ml
28) Aroclor 1248 (2)	7.001	2206	0.347 ng/ml
29) Aroclor 1248 (3)	7.048	2361	0.398 ng/ml
30) Aroclor 1248 (4)	7.172	2002	0.274 ng/ml
31) Aroclor 1248 (5)	7.539	1478	0.166 ng/ml
32) Aroclor 1248 (6)	7.693	2371	0.291 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.511	2083	0.246 ng/ml
35) Aroclor 1254 (2)	7.693	2371	0.170 ng/ml
36) Aroclor 1254 (3)	8.005	6876	0.453 ng/ml
37) Aroclor 1254 (4)	8.246	2618	0.240 ng/ml
38) Aroclor 1254 (5)	8.575	8654	0.769 ng/ml
39) Aroclor 1254 (6)	8.821	3787	1.074 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.139	4936	0.469 ng/ml
42) Aroclor 1260 (2)	8.384	3826	0.300 ng/ml
43) Aroclor 1260 (3)	8.575	8654	0.653 ng/ml
44) Aroclor 1260 (4)	9.060	4730	0.224 ng/ml
45) Aroclor 1260 (5)	9.321	7341	0.600 ng/ml
46) Aroclor 1260 (6)	9.888	9118	1.868 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0B12052\
 Data File : ECD2R004.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:42
 Operator : MJB / KAK
 Sample : 0020348-BLK1
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:17:08 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

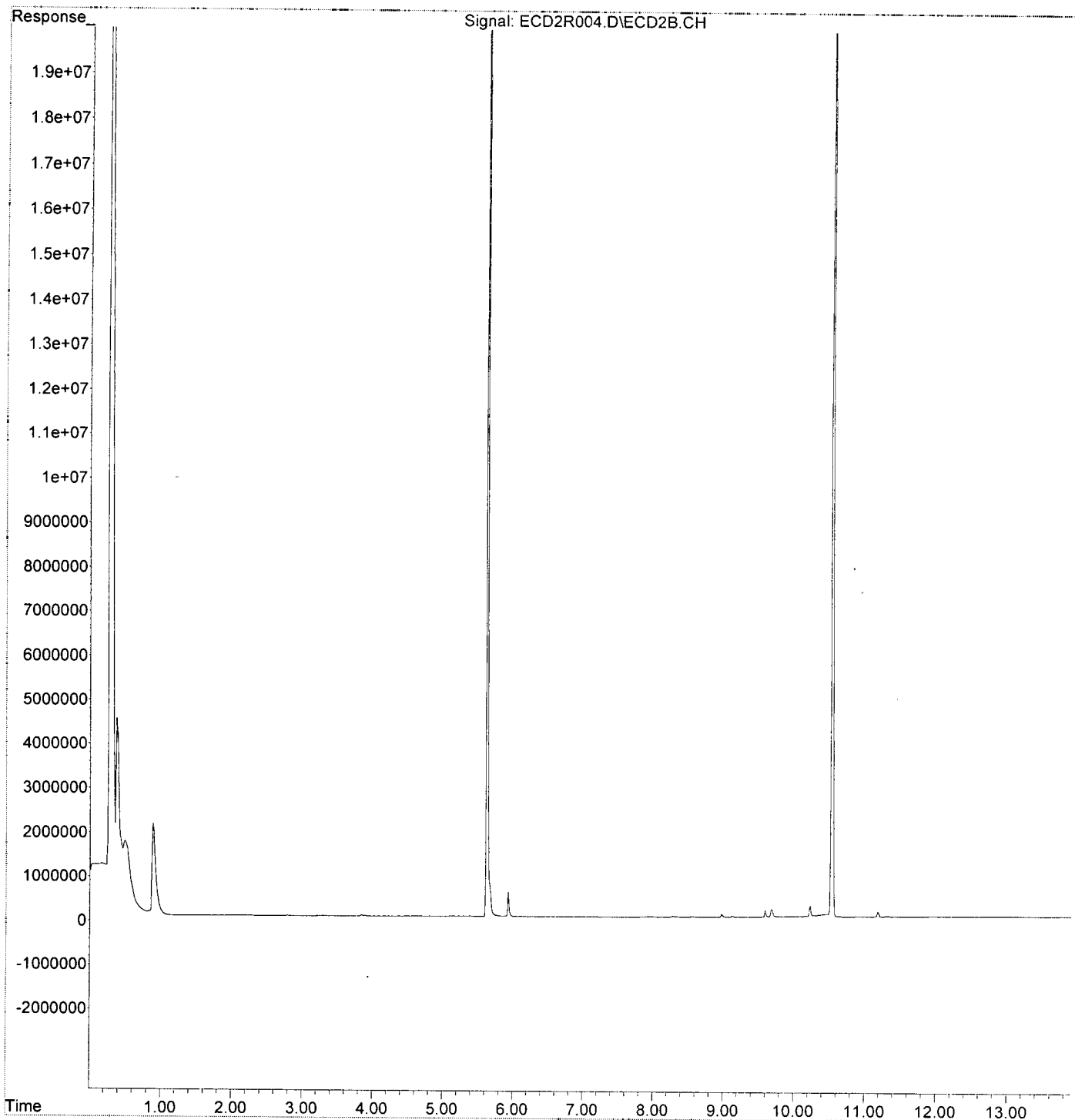
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.315	15243	1.442 ng/ml
49) Aroclor 1262 (2)	8.644	4087	0.268 ng/ml
50) Aroclor 1262 (3)	8.821	3787	0.296 ng/ml
51) Aroclor 1262 (4)	9.060	4730	0.172 ng/ml
52) Aroclor 1262 (5)	9.321	7341	0.447 ng/ml
53) Aroclor 1262 (6)	9.888	9118	1.266 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	1248	0.200 ng/ml
56) Aroclor 1268 (2)	9.321	7341	0.264 ng/ml
57) Aroclor 1268 (3)	9.382	2394	0.106 ng/ml
58) Aroclor 1268 (4)	9.597	141437	7.346 ng/ml
59) Aroclor 1268 (5)	9.888	9118	1.165 ng/ml
60) Aroclor 1268 (6)	10.232	242749	4.796 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B12052\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 16:42
Operator : MJB / KAK
Sample : 0020348-BLK1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:17:08 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B12052\
 Data File : ECD2R005.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:59
 Operator : MJB / KAK
 Sample : 0020348-BS1
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:17:29 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.625	37336650	165.480	ng/ml
62) S DCBP (S)	10.539	26427449	237.606	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.297	5221197	844.583	ng/ml
3) Aroclor 1016 (2)	6.787	9965574	871.014	ng/ml
4) Aroclor 1016 (3)	6.914	4070764	759.967	ng/ml
5) Aroclor 1016 (4)	7.000	4802075	971.930	ng/ml
6) Aroclor 1016 (5)	7.044	5056148	911.754	ng/ml
7) Aroclor 1016 (6)	7.170	4916628	860.668	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.799	349520	201.160	ng/ml
10) Aroclor 1221 (2)	5.874	650675	378.965	ng/ml
11) Aroclor 1221 (3)	5.962	3093134	541.988	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.962	3093134	676.835	ng/ml
14) Aroclor 1232 (2)	6.297	5221197	2006.044	ng/ml
15) Aroclor 1232 (3)	6.787	9965574	2037.133	ng/ml
16) Aroclor 1232 (4)	7.000	4802075	2838.378	ng/ml
17) Aroclor 1232 (5)	7.044	5056148	2429.853	ng/ml
18) Aroclor 1232 (6)	7.170	4916628	2266.067	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.297	5221197	1148.442	ng/ml
21) Aroclor 1242 (2)	6.787	9965574	1129.570	ng/ml
22) Aroclor 1242 (3)	6.914	4070764	1062.816	ng/ml
23) Aroclor 1242 (4)	7.000	4802075	1453.592	ng/ml
24) Aroclor 1242 (5)	7.044	5056148	1265.958	ng/ml
25) Aroclor 1242 (6)	7.170	4916628	1178.818	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.759	8722448	1689.732	ng/ml
28) Aroclor 1248 (2)	7.000	4802075	755.120	ng/ml
29) Aroclor 1248 (3)	7.044	5056148	851.809	ng/ml
30) Aroclor 1248 (4)	7.170	4916628	673.925	ng/ml
31) Aroclor 1248 (5)	7.535	1183745	132.979	ng/ml
32) Aroclor 1248 (6)	7.693	4490022	551.517	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.512	3580296	422.511	ng/ml
35) Aroclor 1254 (2)	7.693	4490022	322.795	ng/ml
36) Aroclor 1254 (3)	8.003	2354660	155.174	ng/ml
37) Aroclor 1254 (4)	8.243	1777092	162.790	ng/ml
38) Aroclor 1254 (5)	8.577	14387572	1279.047	ng/ml
39) Aroclor 1254 (6)	8.823	10571543	2997.164	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.139	10878012	1033.259	ng/ml
42) Aroclor 1260 (2)	8.346	14790979	1158.944	ng/ml
43) Aroclor 1260 (3)	8.577	14387572	1084.941	ng/ml
44) Aroclor 1260 (4)	9.061	25964952	1227.514	ng/ml
45) Aroclor 1260 (5)	9.318	14614440	1194.505	ng/ml
46) Aroclor 1260 (6)	9.881	5752715	1178.845	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Data Path : K:\DATA\0B12052\
 Data File : ECD2R005.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 16:59
 Operator : MJB / KAK
 Sample : 0020348-BS1
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:17:29 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

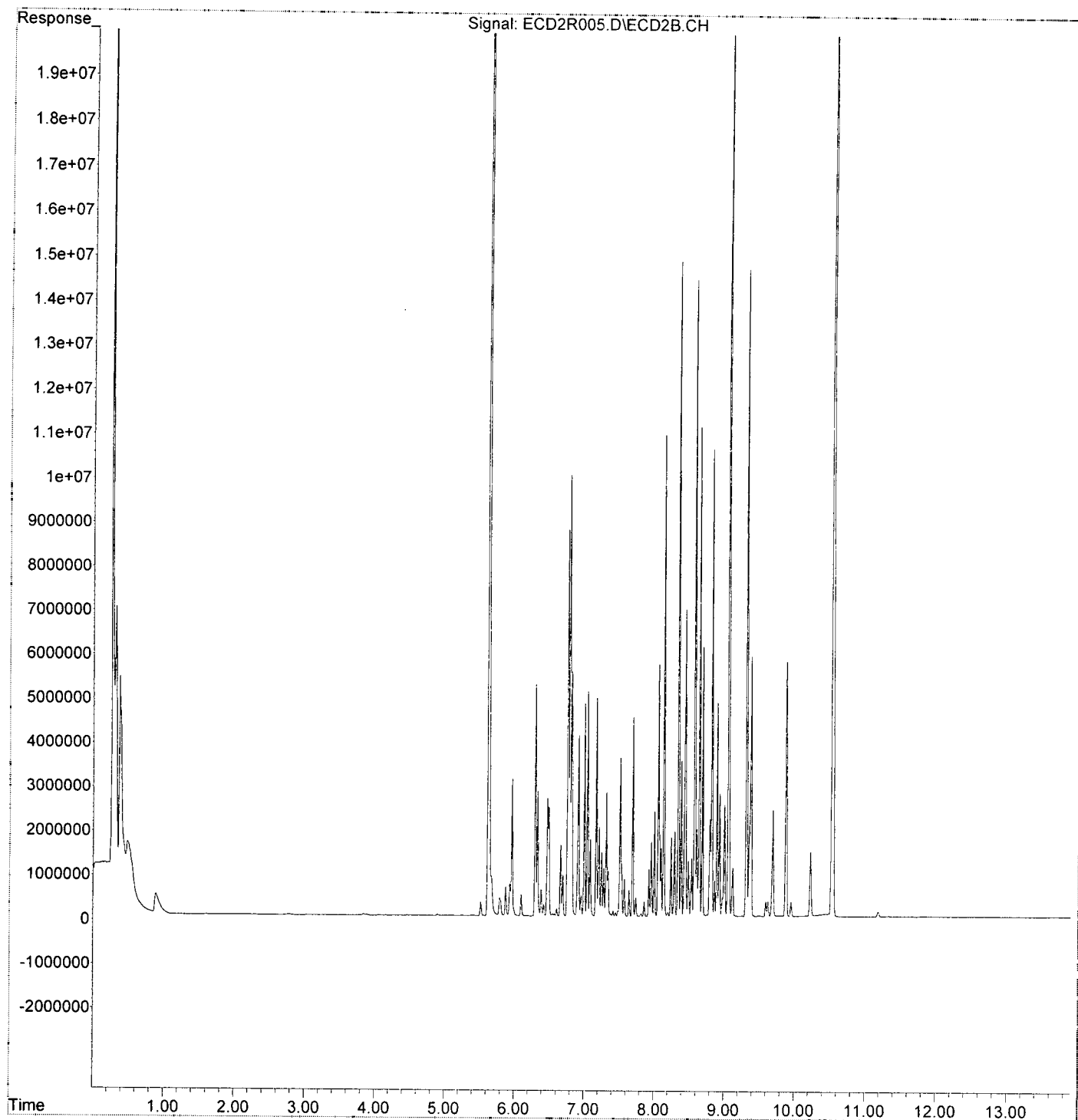
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	8.346	14790979	1399.111	ng/ml
49) Aroclor 1262 (2)	8.645	11042820	722.816	ng/ml
50) Aroclor 1262 (3)	8.823	10571543	825.631	ng/ml
51) Aroclor 1262 (4)	9.061	25964952	943.336	ng/ml
52) Aroclor 1262 (5)	9.318	14614440	890.063	ng/ml
53) Aroclor 1262 (6)	9.881	5752715	798.929	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.863	811225	130.168	ng/ml
56) Aroclor 1268 (2)	9.318	14614440	526.333	ng/ml
57) Aroclor 1268 (3)	9.381	5862082	260.348	ng/ml
58) Aroclor 1268 (4)	9.595	333664	17.330	ng/ml
59) Aroclor 1268 (5)	9.881	5752715	735.342	ng/ml
60) Aroclor 1268 (6)	10.228	1454607	28.739	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B12052\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 16:59
Operator : MJB / KAK
Sample : 0020348-BS1
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:17:29 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B12052\
 Data File : ECD2R016.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 20:13
 Operator : MJB / KAK
 Sample : 0B12052-CCV2
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:19:30 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 2/13/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.627	56280721	249.443	ng/ml
62) S DCBP (S)	10.540	32978230	296.504	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.297	3136569	507.373	ng/ml
3) Aroclor 1016 (2)	6.788	5322804	465.225	ng/ml
4) Aroclor 1016 (3)	6.915	2400928	448.227	ng/ml
5) Aroclor 1016 (4)	7.000	2657711	537.916	ng/ml
6) Aroclor 1016 (5)	7.045	2916518	525.923	ng/ml
7) Aroclor 1016 (6)	7.171	2870972	502.571	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.801	234885	135.184	ng/ml
10) Aroclor 1221 (2)	5.875	423224	246.493	ng/ml
11) Aroclor 1221 (3)	5.962	1924896	337.286	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.962	1924896	421.203	ng/ml
14) Aroclor 1232 (2)	6.297	3136569	1205.106	ng/ml
15) Aroclor 1232 (3)	6.788	5322804	1088.072	ng/ml
16) Aroclor 1232 (4)	7.000	2657711	1570.902	ng/ml
17) Aroclor 1232 (5)	7.045	2916518	1401.603	ng/ml
18) Aroclor 1232 (6)	7.171	2870972	1323.227	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.297	3136569	689.912	ng/ml
21) Aroclor 1242 (2)	6.788	5322804	603.325	ng/ml
22) Aroclor 1242 (3)	6.915	2400928	626.846	ng/ml
23) Aroclor 1242 (4)	7.000	2657711	804.491	ng/ml
24) Aroclor 1242 (5)	7.045	2916518	730.238	ng/ml
25) Aroclor 1242 (6)	7.171	2870972	688.349	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.760	4732560	916.802	ng/ml
28) Aroclor 1248 (2)	7.000	2657711	417.922	ng/ml
29) Aroclor 1248 (3)	7.045	2916518	491.346	ng/ml
30) Aroclor 1248 (4)	7.171	2870972	393.526	ng/ml
31) Aroclor 1248 (5)	7.535	664628	74.663	ng/ml
32) Aroclor 1248 (6)	7.694	2413402	296.442	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.512	2022386	238.662	ng/ml
35) Aroclor 1254 (2)	7.694	2413402	173.503	ng/ml
36) Aroclor 1254 (3)	8.005	1387197	91.417	ng/ml
37) Aroclor 1254 (4)	8.244	963393	88.251	ng/ml
38) Aroclor 1254 (5)	8.577	7330713	651.696	ng/ml
39) Aroclor 1254 (6)	8.824	5207936	1476.515	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.139	5729933	544.264	ng/ml
42) Aroclor 1260 (2)	8.345	6988924	547.616	ng/ml
43) Aroclor 1260 (3)	8.577	7330713	552.796	ng/ml
44) Aroclor 1260 (4)	9.061	12147271	574.272	ng/ml
45) Aroclor 1260 (5)	9.318	7154024	584.731	ng/ml
46) Aroclor 1260 (6)	9.882	2745851	562.679	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Data Path : K:\DATA\0B12052\
 Data File : ECD2R016.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 20:13
 Operator : MJB / KAK
 Sample : 0B12052-CCV2
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:19:30 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

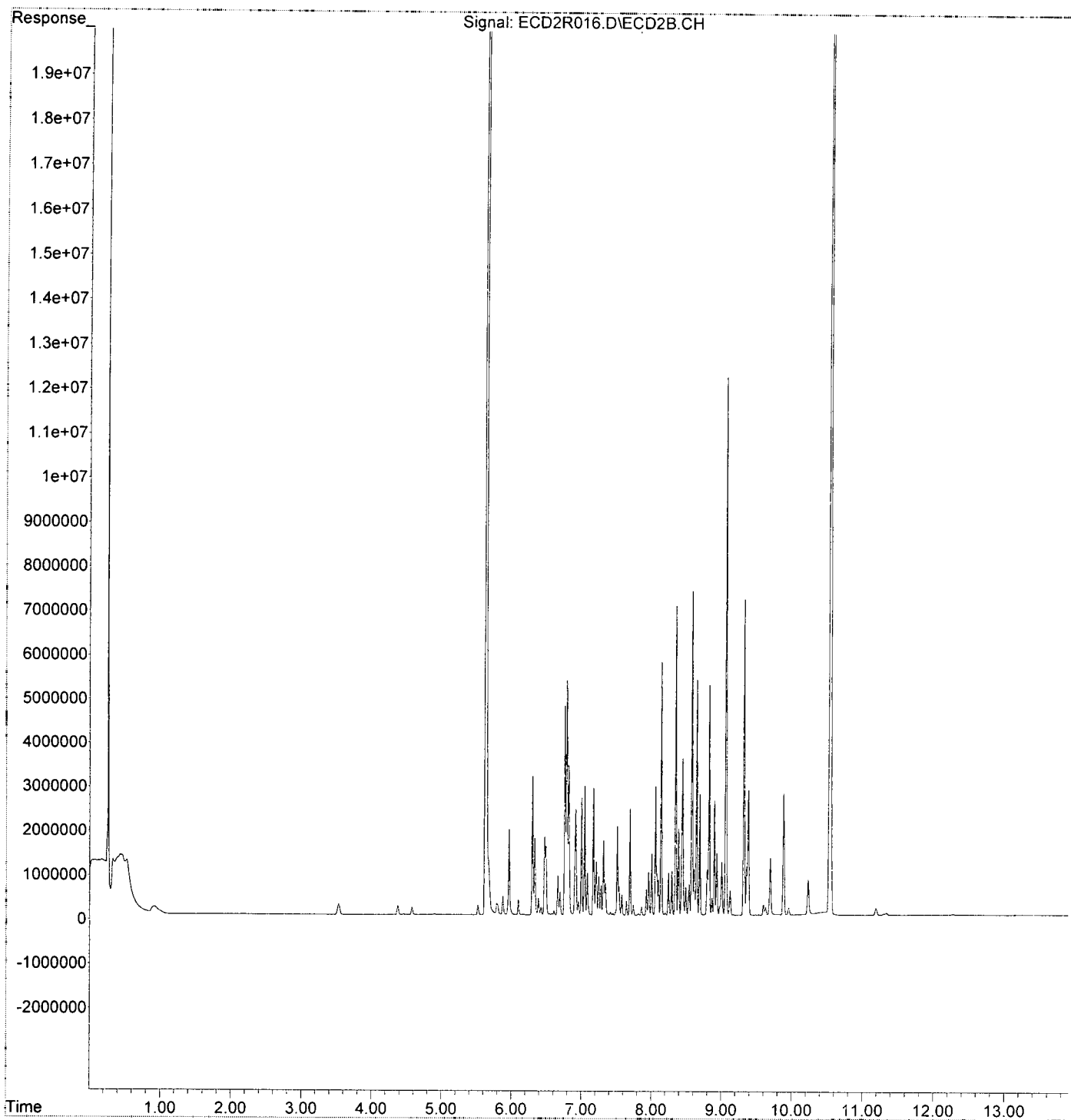
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.345	6988924	661.098 ng/ml
49) Aroclor 1262 (2)	8.646	5335616	349.247 ng/ml
50) Aroclor 1262 (3)	8.824	5207936	406.737 ng/ml
51) Aroclor 1262 (4)	9.061	12147271	441.324 ng/ml
52) Aroclor 1262 (5)	9.318	7154024	435.702 ng/ml
53) Aroclor 1262 (6)	9.882	2745851	381.340 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.864	400731	64.300 ng/ml
56) Aroclor 1268 (2)	9.318	7154024	257.649 ng/ml
57) Aroclor 1268 (3)	9.382	2828500	125.620 ng/ml
58) Aroclor 1268 (4)	9.597	247770	12.869 ng/ml
59) Aroclor 1268 (5)	9.882	2745851	350.989 ng/ml
60) Aroclor 1268 (6)	10.230	803959	15.884 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B12052\
Data File : ECD2R016.D
Signal(s) : ECD2B.CH
Acq On : 12 Feb 2020 20:13
Operator : MJB / KAK
Sample : 0B12052-CCV2
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Feb 13 07:19:30 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0B12052\
 Data File : ECD2R017.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 20:31
 Operator : MJB / KAK
 Sample : 0B12052-CCB2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:19:51 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten:
 2/13/20
 Clean

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.625	20240658	89.709 ng/ml
62) S DCBP (S)	10.538	11667891	104.905 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.305	1458	0.236 ng/ml
3) Aroclor 1016 (2)	6.781	1374	0.120 ng/ml
4) Aroclor 1016 (3)	6.921	1340	0.250 ng/ml
5) Aroclor 1016 (4)	7.002	1846	0.374 ng/ml
6) Aroclor 1016 (5)	7.049	2051	0.370 ng/ml
7) Aroclor 1016 (6)	7.173	2009	0.352 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.821	12564	7.231 ng/ml
10) Aroclor 1221 (2)	5.885	8876	5.170 ng/ml
11) Aroclor 1221 (3)	5.946	32626	5.717 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.946	32626	7.139 ng/ml
14) Aroclor 1232 (2)	6.305	1458	0.560 ng/ml
15) Aroclor 1232 (3)	6.781	1374	0.281 ng/ml
16) Aroclor 1232 (4)	7.002	1846	1.091 ng/ml
17) Aroclor 1232 (5)	7.049	2051	0.986 ng/ml
18) Aroclor 1232 (6)	7.173	2009	0.926 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.305	1458	0.321 ng/ml
21) Aroclor 1242 (2)	6.781	1374	0.156 ng/ml
22) Aroclor 1242 (3)	6.921	1340	0.350 ng/ml
23) Aroclor 1242 (4)	7.002	1846	0.559 ng/ml
24) Aroclor 1242 (5)	7.049	2051	0.514 ng/ml
25) Aroclor 1242 (6)	7.173	2009	0.482 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.762	1460	0.283 ng/ml
28) Aroclor 1248 (2)	7.002	1846	0.290 ng/ml
29) Aroclor 1248 (3)	7.049	2051	0.346 ng/ml
30) Aroclor 1248 (4)	7.173	2009	0.275 ng/ml
31) Aroclor 1248 (5)	7.539	2091	0.235 ng/ml
32) Aroclor 1248 (6)	7.695	3853	0.473 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.520	1756	0.207 ng/ml
35) Aroclor 1254 (2)	7.695	3853	0.277 ng/ml
36) Aroclor 1254 (3)	8.005	5193	0.342 ng/ml
37) Aroclor 1254 (4)	8.244	3663	0.336 ng/ml
38) Aroclor 1254 (5)	8.577	9828	0.874 ng/ml
39) Aroclor 1254 (6)	8.824	6485	1.839 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.140	6913	0.657 ng/ml
42) Aroclor 1260 (2)	8.346	9836	0.771 ng/ml
43) Aroclor 1260 (3)	8.577	9828	0.741 ng/ml
44) Aroclor 1260 (4)	9.061	13377	0.632 ng/ml
45) Aroclor 1260 (5)	9.319	9794	0.801 ng/ml
46) Aroclor 1260 (6)	9.885	7855	1.610 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0B12052\
 Data File : ECD2R017.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 20:31
 Operator : MJB / KAK
 Sample : 0B12052-CCB2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:19:51 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

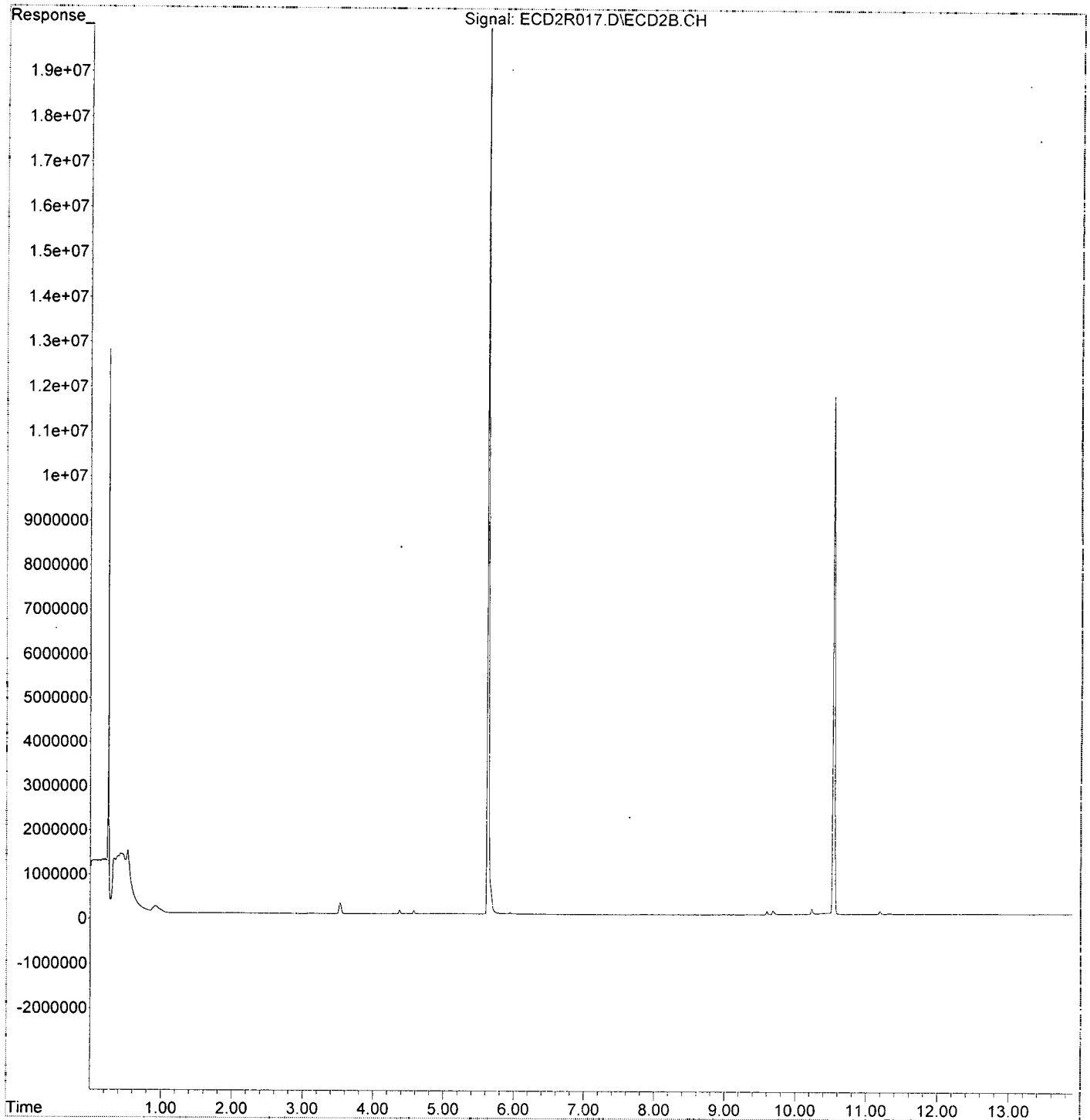
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.346	9836	0.930 ng/ml
49) Aroclor 1262 (2)	8.646	5887	0.385 ng/ml
50) Aroclor 1262 (3)	8.824	6485	0.506 ng/ml
51) Aroclor 1262 (4)	9.061	13377	0.486 ng/ml
52) Aroclor 1262 (5)	9.319	9794	0.596 ng/ml
53) Aroclor 1262 (6)	9.885	7855	1.091 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.866	2117	0.340 ng/ml
56) Aroclor 1268 (2)	9.319	9794	0.353 ng/ml
57) Aroclor 1268 (3)	9.382	3887	0.173 ng/ml
58) Aroclor 1268 (4)	9.598	80347	4.173 ng/ml
59) Aroclor 1268 (5)	9.885	7855	1.004 ng/ml
60) Aroclor 1268 (6)	10.232	129728	2.563 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0B12052\
 Data File : ECD2R017.D
 Signal(s) : ECD2B.CH
 Acq On : 12 Feb 2020 20:31
 Operator : MJB / KAK
 Sample : 0B12052-CCB2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Feb 13 07:19:51 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
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 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
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**Polychlorinated Biphenyls by EPA 8082A
Calibration Data**

Sequence 0A13050 (Cal ID A0A1501) DUALECD2R



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A13050**

Instrument: **DUALECD2R**

Date: **01/13/20 16:03**

Calibration: **A0A1501**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A13050-ICB1	Water	QC	QC				A19L339
2	0A13050-CAL1	Water	QC	QC				A19L280
3	0A13050-CAL2	Water	QC	QC				A19L281
4	0A13050-CAL3	Water	QC	QC				A19L282
5	0A13050-CAL4	Water	QC	QC				A19L283
6	0A13050-CAL5	Water	QC	QC				A19L276
7	0A13050-CAL6	Water	QC	QC				A19L278
8	0A13050-CAL7	Water	QC	QC				A19L279
9	0A13050-IBL1	Water	QC	QC				
10	0A13050-ICV1	Water	QC	QC				A19H459
11	0A13050-CAL8	Water	QC	QC				A19H447
12	0A13050-CAL9	Water	QC	QC				A19H448
13	0A13050-CALA	Water	QC	QC				A19H449
14	0A13050-CALB	Water	QC	QC				A19H450
15	0A13050-CALC	Water	QC	QC				A19H451
16	0A13050-CALD	Water	QC	QC				A19H452
17	0A13050-CALE	Water	QC	QC				A19H453
18	0A13050-ICV2	Water	QC	QC				A19H405
19	0A13050-ICV3	Water	QC	QC				A19J367
20	0A13050-ICV4	Water	QC	QC				A19H406
21	0A13050-ICV5	Water	QC	QC				A19L037

Data Entered By: MC 1/15/20

Comments:

Data Reviewed By: MC 1/16/2020

Calibration Status Report HP G1530A

Method Path : L:\Methods\
 Method File : RECD2_QUANTPCB_200113.M
 Title : PCB Data Analysis
 Last Update : Tue Jan 14 09:35:58 2020
 Response Via : Initial Calibration

AOA1501

[Signature]
 1/15/20

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	K:\DATA\0A13050\ECD2R005.D
2	2	25	0	K:\DATA\0A13050\ECD2R006.D
3	3	50	0	K:\DATA\0A13050\ECD2R007.D
4	4	100	0	K:\DATA\0A13050\ECD2R008.D
5	5	250	0	K:\DATA\0A13050\ECD2R020.D
6	6	500	0	K:\DATA\0A13050\ECD2R010.D
7	7	800	0	K:\DATA\0A13050\ECD2R011.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Jan 14 09:33 2020	Jan 14 08:56 2020	13 Jan 2020 17:33
2	2	Jan 14 09:33 2020	Jan 14 09:03 2020	13 Jan 2020 17:50
3	3	Jan 14 09:34 2020	Jan 14 09:04 2020	13 Jan 2020 18:08
4	4	Jan 14 09:34 2020	Jan 14 09:05 2020	13 Jan 2020 18:25
5	5	Jan 14 09:35 2020	Jan 14 09:32 2020	13 Jan 2020 21:57
6	6	Jan 14 09:34 2020	Jan 14 09:06 2020	13 Jan 2020 19:01
7	7	Jan 14 09:34 2020	Jan 14 09:07 2020	13 Jan 2020 19:18

RECD2_QUANTPCB_200113.M Tue Jan 14 11:44:09 2020

Response Factor Report HP G1530A

Method Path : L:\Methods\
 Method File : RECD2_QUANTPCB_200113.M
 Title : PCB Data Analysis
 Last Update : Tue Jan 14 09:35:58 2020
 Response Via : Initial Calibration

Calibration Files

1 =ECD2R005.D 2 =ECD2R006.D 3 =ECD2R007.D
 4 =ECD2R008.D 5 =ECD2R020.D 6 =ECD2R010.D

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 1/15/20

Compound	1	2	3	4	5	6	Avg	%RSD
1) S TCMX (S)	2.096	2.125	2.217	2.268	2.155	2.497	2.256	E5 6.90
2) Aroclor 1016 ...	7.264	6.876	6.397	5.954	5.672	5.624	6.182	E3 11.06 ✓
3) Aroclor 1016 ...	1.247	1.196	1.143	1.167	1.097	1.103	1.144	E4 5.70 ✓
4) Aroclor 1016 ...	5.802	5.801	5.370	5.336	5.078	5.146	5.357	E3 6.26 ✓
5) Aroclor 1016 ...	5.870	5.571	5.194	4.910	4.407	4.339	4.941	E3 12.78 ✓
6) Aroclor 1016 ...	6.569	6.159	5.693	5.382	5.074	5.224	5.546	E3 11.60 ✓
7) Aroclor 1016 (6)	6.761	6.310	5.881	5.800	5.148	5.150	5.713	E3 11.80 ✓
8) Aroclor 1016 ...							0.000	-1.00
9) Aroclor 1221 (1)					1.738		1.738	E3 0.00
10) Aroclor 1221 (2)					1.717		1.717	E3 0.00
11) Aroclor 1221 (3)					5.707		5.707	E3 0.00
12) Aroclor 1221 ...							0.000	-1.00
13) Aroclor 1232 (1)					4.570		4.570	E3 0.00
14) Aroclor 1232 (2)					2.603		2.603	E3 0.00
15) Aroclor 1232 (3)					4.892		4.892	E3 0.00
16) Aroclor 1232 (4)					1.692		1.692	E3 0.00
17) Aroclor 1232 (5)					2.081		2.081	E3 0.00
18) Aroclor 1232 (6)					2.170		2.170	E3 0.00
19) Aroclor 1232 ...							0.000	-1.00
20) Aroclor 1242 ...					4.546		4.546	E3 0.00
21) Aroclor 1242 ...					8.822		8.822	E3 0.00
22) Aroclor 1242 ...					3.830		3.830	E3 0.00
23) Aroclor 1242 ...					3.304		3.304	E3 0.00
24) Aroclor 1242 ...					3.994		3.994	E3 0.00
25) Aroclor 1242 (6)					4.171		4.171	E3 0.00
26) Aroclor 1242 ...							0.000	-1.00
27) Aroclor 1248 ...					5.162		5.162	E3 0.00
28) Aroclor 1248 ...					6.359		6.359	E3 0.00
29) Aroclor 1248 ...					5.936		5.936	E3 0.00
30) Aroclor 1248 ...					7.296		7.296	E3 0.00
31) Aroclor 1248 ...					8.902		8.902	E3 0.00
32) Aroclor 1248 (6)					8.141		8.141	E3 0.00
33) Aroclor 1248 ...							0.000	-1.00
34) Aroclor 1254 ...					8.474		8.474	E3 0.00
35) Aroclor 1254 ...					1.391		1.391	E4 0.00
36) Aroclor 1254 ...					1.517		1.517	E4 0.00
37) Aroclor 1254 ...					1.092		1.092	E4 0.00
38) Aroclor 1254 ...					1.125		1.125	E4 0.00
39) Aroclor 1254 (6)					3.527		3.527	E3 0.00
40) Aroclor 1254 ...							0.000	-1.00
41) Aroclor 1260 ...	1.182	1.082	1.060	1.047	1.016	1.012	1.053	E4 6.43 ✓
42) Aroclor 1260 ...	1.405	1.313	1.321	1.256	1.230	1.230	1.276	E4 5.91 ✓
43) Aroclor 1260 (3)	1.412	1.348	1.327	1.372	1.308	1.296	1.326	E4 4.63 ✓
44) Aroclor 1260 (4)	2.073	2.096	2.051	2.126	2.099	2.189	2.115	E4 2.39 ✓
45) Aroclor 1260 (5)	1.290	1.217	1.220	1.236	1.214	1.207	1.223	E4 2.75 ✓
46) Aroclor 1260 (6)	5.119	5.238	4.789	5.045	4.784	4.595	4.880	E3 5.26 ✓
47) Aroclor 1260 ...							0.000	-1.00
48) Aroclor 1262 (1)					1.057		1.057	E4 0.00
49) Aroclor 1262 (2)					1.528		1.528	E4 0.00
50) Aroclor 1262 (3)					1.280		1.280	E4 0.00
51) Aroclor 1262 (4)					2.752		2.752	E4 0.00
52) Aroclor 1262 (5)					1.642		1.642	E4 0.00
53) Aroclor 1262 (6)					7.201		7.201	E3 0.00
54) Aroclor 1262 ...							0.000	-1.00
55) Aroclor 1268 (1)					6.232		6.232	E3 0.00
56) Aroclor 1268 (2)					2.777		2.777	E4 0.00
57) Aroclor 1268 (3)					2.252		2.252	E4 0.00
58) Aroclor 1268 (4)					1.925		1.925	E4 0.00
59) Aroclor 1268 (5)					7.823		7.823	E3 0.00
60) Aroclor 1268 (6)					5.062		5.062	E4 0.00

Response Factor Report HP G1530A

Method Path : L:\Methods\
 Method File : RECD2_QUANTPCB_200113.M
 Title : PCB Data Analysis
 Last Update : Tue Jan 14 09:35:58 2020
 Response Via : Initial Calibration

Calibration Files

1 =ECD2R005.D 2 =ECD2R006.D 3 =ECD2R007.D
 4 =ECD2R008.D 5 =ECD2R020.D 6 =ECD2R010.D

Compound	1	2	3	4	5	6	Avg	%RSD
61) Aroclor 1268 ...							0.000	-1.00
62) S DCBP (S)	1.071	1.102	1.079	1.089	1.009	1.172	1.112 E5	7.40 ✓

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

Compound List Report HP G1530A

Method Path : L:\Methods\
 Method File : RECD2_QUANTPCB_200113.M
 Title : PCB Data Analysis
 Last Update : Tue Jan 14 09:35:58 2020
 Response Via : Initial Calibration

Total Cpnds : 62

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 1/15/20

PK#	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S TCMX (S)	5.629	1.000	A	H	R
2	Aroclor 1016 (1)	6.300	1.000	A	H	R
3	Aroclor 1016 (2)	6.789	1.000	A	H	R
4	Aroclor 1016 (3)	6.916	1.000	A	H	R
5	Aroclor 1016 (4)	7.003	1.000	A	H	R
6	Aroclor 1016 (5)	7.048	1.000	A	H	R
7	Aroclor 1016 (6)	7.173	1.000	A	H	R
8	Aroclor 1016 - AVE	1.729	1.000	A	H	R
9	Aroclor 1221 (1)	5.806	1.000	A	H	R
10	Aroclor 1221 (2)	5.878	1.000	A	H	R
11	Aroclor 1221 (3)	5.965	1.000	A	H	R
12	Aroclor 1221 - AVE	1.729	1.000	A	H	R
13	Aroclor 1232 (1)	5.963	1.000	A	H	R
14	Aroclor 1232 (2)	6.298	1.000	A	H	R
15	Aroclor 1232 (3)	6.789	1.000	A	H	R
16	Aroclor 1232 (4)	7.002	1.000	A	H	R
17	Aroclor 1232 (5)	7.047	1.000	A	H	R
18	Aroclor 1232 (6)	7.172	1.000	A	H	R
19	Aroclor 1232 - AVE	1.729	1.000	A	H	R
20	Aroclor 1242 (1)	6.299	1.000	A	H	R
21	Aroclor 1242 (2)	6.788	1.000	A	H	R
22	Aroclor 1242 (3)	6.916	1.000	A	H	R
23	Aroclor 1242 (4)	7.003	1.000	A	H	R
24	Aroclor 1242 (5)	7.047	1.000	A	H	R
25	Aroclor 1242 (6)	7.172	1.000	A	H	R
26	Aroclor 1242 - AVE	1.729	1.000	A	H	R
27	Aroclor 1248 (1)	6.761	1.000	A	H	R
28	Aroclor 1248 (2)	7.003	1.000	A	H	R
29	Aroclor 1248 (3)	7.047	1.000	A	H	R
30	Aroclor 1248 (4)	7.172	1.000	A	H	R
31	Aroclor 1248 (5)	7.538	1.000	A	H	R
32	Aroclor 1248 (6)	7.695	1.000	A	H	R
33	Aroclor 1248 - AVE	1.729	1.000	A	H	R
34	Aroclor 1254 (1)	7.515	1.000	A	H	R
35	Aroclor 1254 (2)	7.696	1.000	A	H	R
36	Aroclor 1254 (3)	8.006	1.000	A	H	R
37	Aroclor 1254 (4)	8.246	1.000	A	H	R
38	Aroclor 1254 (5)	8.580	1.000	A	H	R
39	Aroclor 1254 (6)	8.810	1.000	A	H	R
40	Aroclor 1254 - AVE	1.729	1.000	A	H	R
41	Aroclor 1260 (1)	8.144	1.000	A	H	R
42	Aroclor 1260 (2)	8.350	1.000	A	H	R
43	Aroclor 1260 (3)	8.582	1.000	A	H	R
44	Aroclor 1260 (4)	9.066	1.000	A	H	R
45	Aroclor 1260 (5)	9.324	1.000	A	H	R
46	Aroclor 1260 (6)	9.890	1.000	A	H	R
47	Aroclor 1260 - AVE	1.729	1.000	A	H	R
48	Aroclor 1262 (1)	8.349	1.000	A	H	R
49	Aroclor 1262 (2)	8.650	1.000	A	H	R
50	Aroclor 1262 (3)	8.828	1.000	A	H	R
51	Aroclor 1262 (4)	9.065	1.000	A	H	R
52	Aroclor 1262 (5)	9.324	1.000	A	H	R
53	Aroclor 1262 (6)	9.888	1.000	A	H	R
54	Aroclor 1262 - AVE	1.729	1.000	A	H	R
55	Aroclor 1268 (1)	8.867	1.000	A	H	R
56	Aroclor 1268 (2)	9.324	1.000	A	H	R

57	Aroclor 1268 (3)	9.390	1.000	A	H	R
58	Aroclor 1268 (4)	9.601	1.000	A	H	R
59	Aroclor 1268 (5)	9.888	1.000	A	H	R
60	Aroclor 1268 (6)	10.237	1.000	A	H	R
61	Aroclor 1268 - AVE	1.728	1.000	A	H	R
62	S DCBP (S)	10.552	1.000	A	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
 A/H = Area or Height
 ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

 RECD2_QUANTPCB_200113.M Tue Jan 14 11:43:59 2020

Element Calibration Review Sheet

Calibration ID: **A0A1501**

Instrument: **DUALECD2R**

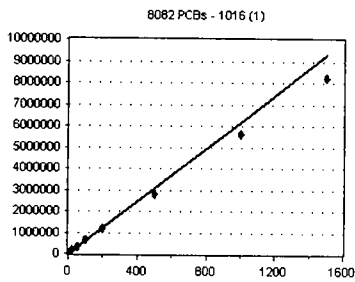
Calibration Date: **01/15/2020**

Analysis: **8082 PCBs**

Instrument Cal ID: **RECD2_QUANTPCB_20011**

1016 (1)

Curve Fit: **AVERAGE RF**

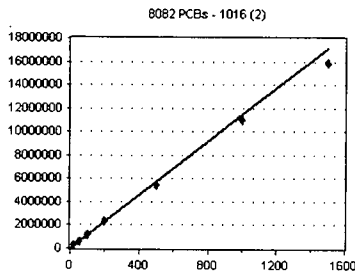


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	145279	7263.950	6.30
0A13050-CAL2	50	343821	6876.420	6.30
0A13050-CAL3	100	639728	6397.280	6.30
0A13050-CAL4	200	1190843	5954.215	6.30
0A13050-CAL5	500	2835860	5671.720	6.30
0A13050-CAL6	1000	5624087	5624.087	6.30
0A13050-CAL7	1500	8229290	5486.193	6.30

AVE RF 6181.981 RF RSD 11.06 AVE RT 6.30

1016 (2)

Curve Fit: **AVERAGE RF**

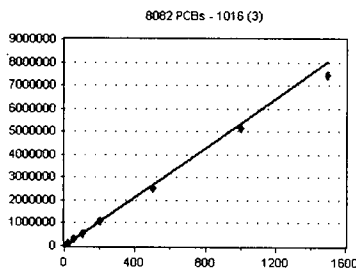


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	249458	12472.900	6.79
0A13050-CAL2	50	597996	11959.920	6.79
0A13050-CAL3	100	1142660	11426.600	6.79
0A13050-CAL4	200	2334544	11672.720	6.79
0A13050-CAL5	500	5484312	10968.620	6.79
0A13050-CAL6	1000	102544E+07	11025.440	6.79
0A13050-CAL7	1500	584486E+07	10563.240	6.79

AVE RF 11441.350 RF RSD 5.70 AVE RT 6.79

1016 (3)

Curve Fit: **AVERAGE RF**

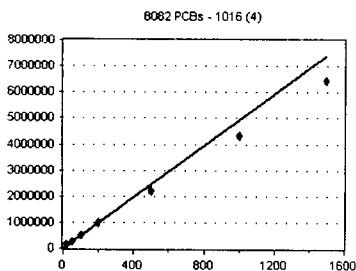


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	116035	5801.750	6.92
0A13050-CAL2	50	290069	5801.380	6.92
0A13050-CAL3	100	536991	5369.910	6.92
0A13050-CAL4	200	1067264	5336.320	6.92
0A13050-CAL5	500	2538905	5077.810	6.92
0A13050-CAL6	1000	5145954	5145.954	6.92
0A13050-CAL7	1500	7443643	4962.429	6.92

AVE RF 5356.508 RF RSD 6.26 AVE RT 6.92

1016 (4)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	117409	5870.450	7.00
0A13050-CAL2	50	278534	5570.680	7.00
0A13050-CAL3	100	519409	5194.090	7.00
0A13050-CAL4	200	981904	4909.520	7.00
0A13050-CAL5	500	2203390	4406.780	7.00
0A13050-CAL6	1000	4338878	4338.878	7.00
0A13050-CAL7	1500	6442401	4294.934	7.00

AVE RF 4940.762 RF RSD 12.78 AVE RT 7.00

Element Calibration Review Sheet

Calibration ID: **A0A1501**

Instrument: **DUALECD2R**

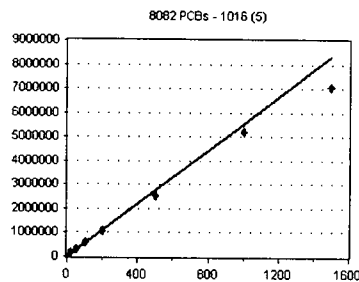
Calibration Date: **01/15/2020**

Analysis: **8082 PCBs**

Instrument Cal ID: **RECD2_QUANTPCB_20011**

1016 (5)

Curve Fit: **AVERAGE RF**

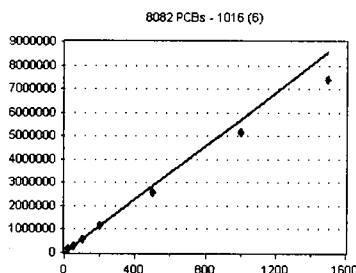


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	131375	6568.750	7.05
0A13050-CAL2	50	307931	6158.620	7.05
0A13050-CAL3	100	569313	5693.130	7.05
0A13050-CAL4	200	1076394	5381.970	7.05
0A13050-CAL5	500	2536989	5073.978	7.05
0A13050-CAL6	1000	5224293	5224.293	7.05
0A13050-CAL7	1500	7076827	4717.885	7.05

AVE RF 5545.518 RF RSD 11.60 AVE RT 7.05

1016 (6)

Curve Fit: **AVERAGE RF**

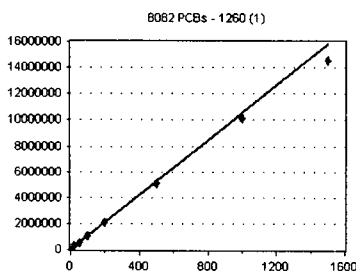


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	135212	6760.600	7.17
0A13050-CAL2	50	315508	6310.160	7.17
0A13050-CAL3	100	588135	5881.350	7.17
0A13050-CAL4	200	1160064	5800.320	7.17
0A13050-CAL5	500	2573883	5147.766	7.17
0A13050-CAL6	1000	5149713	5149.713	7.17
0A13050-CAL7	1500	7407214	4938.143	7.17

AVE RF 5712.579 RF RSD 11.80 AVE RT 7.17

1260 (1)

Curve Fit: **AVERAGE RF**

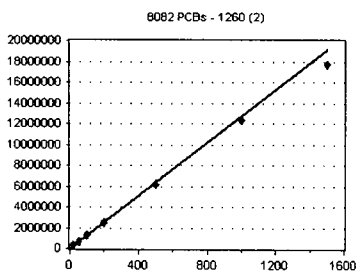


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	236430	11821.500	8.14
0A13050-CAL2	50	540959	10819.180	8.14
0A13050-CAL3	100	1060465	10604.650	8.14
0A13050-CAL4	200	2093221	10466.110	8.14
0A13050-CAL5	500	5080914	10161.830	8.14
0A13050-CAL6	1000	012309E+07	10123.090	8.14
0A13050-CAL7	1500	454805E+07	9698.700	8.14

AVE RF 10527.860 RF RSD 6.43 AVE RT 8.14

1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	280991	14049.550	8.35
0A13050-CAL2	50	656411	13128.220	8.35
0A13050-CAL3	100	1321460	13214.600	8.35
0A13050-CAL4	200	2511397	12556.990	8.35
0A13050-CAL5	500	6152313	12304.630	8.35
0A13050-CAL6	1000	229876E+07	12298.760	8.35
0A13050-CAL7	1500	767673E+07	11784.490	8.35

AVE RF 12762.460 RF RSD 5.91 AVE RT 8.35

Element Calibration Review Sheet

Calibration ID: **A0A1501**

Instrument: **DUALECD2R**

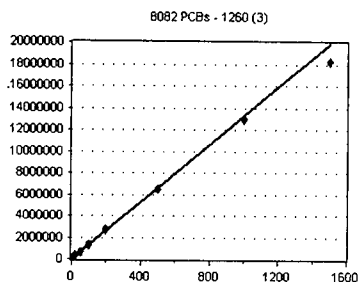
Calibration Date: **01/15/2020**

Analysis: **8082 PCBs**

Instrument Cal ID: **RECD2_QUANTPCB_20011**

1260 (3)

Curve Fit: **AVERAGE RF**

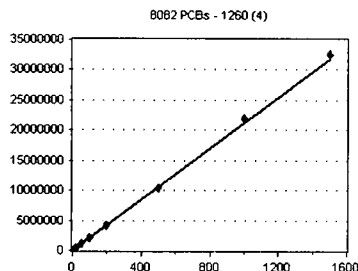


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	282360	14118.000	8.58
0A13050-CAL2	50	674172	13483.440	8.58
0A13050-CAL3	100	1327338	13273.380	8.58
0A13050-CAL4	200	2744238	13721.190	8.58
0A13050-CAL5	500	6540031	13080.060	8.58
0A13050-CAL6	1000	296167E+07	12961.670	8.58
0A13050-CAL7	1500	828554E+07	12190.360	8.58

AVE RF 13261.160 **RF RSD** 4.63 **AVE RT** 8.58

1260 (4)

Curve Fit: **AVERAGE RF**

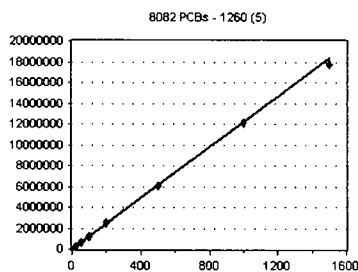


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	414593	20729.650	9.07
0A13050-CAL2	50	1047953	20959.060	9.07
0A13050-CAL3	100	2051063	20510.630	9.07
0A13050-CAL4	200	4251874	21259.370	9.07
0A13050-CAL5	500	049673E+07	20993.460	9.07
0A13050-CAL6	1000	188659E+07	21886.590	9.07
0A13050-CAL7	1500	259284E+07	21728.560	9.07

AVE RF 21152.470 **RF RSD** 2.39 **AVE RT** 9.07

1260 (5)

Curve Fit: **AVERAGE RF**

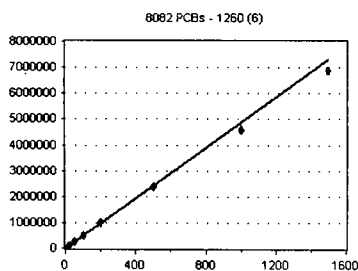


Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	257901	12895.050	9.33
0A13050-CAL2	50	608364	12167.280	9.33
0A13050-CAL3	100	1220407	12204.070	9.33
0A13050-CAL4	200	2471890	12359.450	9.33
0A13050-CAL5	500	6070844	12141.690	9.33
0A13050-CAL6	1000	207436E+07	12074.360	9.33
0A13050-CAL7	1500	770177E+07	11801.180	9.33

AVE RF 12234.730 **RF RSD** 2.75 **AVE RT** 9.33

1260 (6)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0A13050-CAL1	20	102375	5118.750	9.89
0A13050-CAL2	50	261903	5238.060	9.89
0A13050-CAL3	100	478851	4788.510	9.89
0A13050-CAL4	200	1008936	5044.680	9.89
0A13050-CAL5	500	2392226	4784.452	9.89
0A13050-CAL6	1000	4594659	4594.659	9.89
0A13050-CAL7	1500	6885880	4590.586	9.89

AVE RF 4879.957 **RF RSD** 5.26 **AVE RT** 9.89

Element Calibration Review Sheet

Calibration ID: **A0A1501**

Instrument: **DUALECD2R**

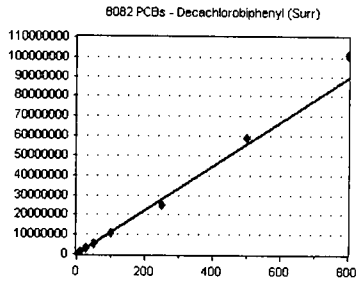
Calibration Date: **01/15/2020**

Analysis: **8082 PCBs**

Instrument Cal ID: **RECD2_QUANTPCB_20011**

Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**



<u>Standard</u>	<u>Concentration</u>	<u>Response</u>	<u>Response Factor</u>	<u>RT</u>
0A13050-CAL1	10	1070638	107063.800	10.55
0A13050-CAL2	25	2755983	110239.300	10.55
0A13050-CAL3	50	5396453	107929.100	10.55
0A13050-CAL4	100	089172E+07	108917.200	10.55
0A13050-CAL5	250	521832E+07	100873.300	10.55
0A13050-CAL6	500	859571E+07	117191.400	10.55
0A13050-CAL7	800	010814E+08	126351.800	10.55

AVE RF **111223.700** RF RSD **7.40** AVE RT **10.55**

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

Analysis Included

1311/8082 TCLP PCBs
 608 PCBs
 608 PCBs - LL (1000/1mL) +1262/68
 8082 PCBs
 8082 PCBs - Low Level (2mL FV)
 8082 PCBs - Low Level (2mL FV) +1262/68
 8082 PCBs - Low Level (1000/1mL)
 8082 PCBs - Low Level (1000/1mL) +1262/68
 8082 PCBs - Low Level (30g/2mL)
 8082 PCBs + 1262/1268
 8082 PCBs in Trans. Oil - LL

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0A13050-ICB1	Initial Cal Blank	Water	A19L339		1/13/2020 5:15:00PM
0A13050-CAL1	Cal Standard	Water	A19L280	"	1/13/2020 5:33:00PM
0A13050-CAL2	Cal Standard	Water	A19L281	"	1/13/2020 5:50:00PM
0A13050-CAL3	Cal Standard	Water	A19L282	"	1/13/2020 6:08:00PM
0A13050-CAL4	Cal Standard	Water	A19L283	"	1/13/2020 6:25:00PM
0A13050-CAL5	Cal Standard	Water	A19L276	"	1/13/2020 6:43:00PM
0A13050-CAL6	Cal Standard	Water	A19L278	"	1/13/2020 7:01:00PM
0A13050-CAL7	Cal Standard	Water	A19L279	"	1/13/2020 7:18:00PM
0A13050-ICV1	Initial Cal Check	Water	A19H459	"	1/13/2020 7:54:00PM
0A13050-CAL8	Cal Standard	Water	A19H447	"	1/13/2020 8:11:00PM
0A13050-CAL9	Cal Standard	Water	A19H448	"	1/13/2020 8:29:00PM
0A13050-CALA	Cal Standard	Water	A19H449	"	1/13/2020 8:46:00PM
0A13050-CALB	Cal Standard	Water	A19H450	"	1/13/2020 9:04:00PM
0A13050-CALC	Cal Standard	Water	A19H451	"	1/13/2020 9:22:00PM
0A13050-CALD	Cal Standard	Water	A19H452	"	1/13/2020 9:39:00PM
0A13050-CALE	Cal Standard	Water	A19H453	"	1/13/2020 9:57:00PM
0A13050-ICV2	Initial Cal Check	Water	A19H405	"	1/13/2020 10:15:00PM
0A13050-ICV3	Initial Cal Check	Water	A19J367	"	1/13/2020 10:32:00PM
0A13050-ICV4	Initial Cal Check	Water	A19H406	"	1/13/2020 10:50:00PM
0A13050-ICV5	Initial Cal Check	Water	A19L037	"	1/14/2020 8:02:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: A0A1501 Instrument: DUALECD2R

1311/8082 TCLP PCBs Sequence: 0A13050 Matrix: Water

0A13050-CAL1	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	20.0	0	
Aroclor 1260	0.0000	0.00	20.0	0	
Aroclor 1016	0.0000	0.00	20.0	0	
Aroclor 1260	0.0000	0.00	20.0	0	
0A13050-CAL2	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	
0A13050-CAL3	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	
Aroclor 1016	0.0000	0.00	100	0	
Aroclor 1260	0.0000	0.00	100	0	
0A13050-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	
Aroclor 1016	0.0000	0.00	200	0	
Aroclor 1260	0.0000	0.00	200	0	
0A13050-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	
Aroclor 1016	0.0000	0.00	500	0	
Aroclor 1260	0.0000	0.00	500	0	
0A13050-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	800.0000	0.00	1000	0	
Aroclor 1260	800.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	
Aroclor 1016	0.0000	0.00	1000	0	
Aroclor 1260	0.0000	0.00	1000	0	
0A13050-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1016	800.0000	0.00	1500	0	
Aroclor 1260	800.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	
Aroclor 1016	0.0000	0.00	1500	0	
Aroclor 1260	0.0000	0.00	1500	0	
0A13050-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1221	0.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	
0A13050-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1232	0.0000	0.00	500	0	
Aroclor 1232	0.0000	0.00	500	0	
0A13050-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1242	0.0000	0.00	500	0	
Aroclor 1242	0.0000	0.00	500	0	
0A13050-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1248	0.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	
0A13050-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1254	0.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0A13050

0A13050-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1262	0.0000	0.00	500	0	
Aroclor 1262	0.0000	0.00	500	0	
0A13050-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Aroclor 1268	0.0000	0.00	500	0	
Aroclor 1268	0.0000	0.00	500	0	

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadratic fit compounds.

Analytes With Quadratic Curve Fits

<u>Qualifier</u>	<u>iMDL</u>	<u>iMRL</u>	<u>Spike Amt</u>	<u>%Difference</u>	<u>OK?</u>	<u>Raise MRL to ?</u>
				_____	<input type="checkbox"/>	<input type="checkbox"/> _____

Analytes listed above have quadratic curve fits. If they are using a weighting option, they must be checked against the requested curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0A1501** Instrument: **DUALECD2R**

608 PCBs - LL (1000/1mL) +1 Sequence: **0A13050** Matrix: **Water**

0A13050-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Data Path : K:\DATA\0A13050\
 Data File : ECD2R004.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:15
 Operator : MJB / KAK
 Sample : 0A13050-ICB1
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:23:02 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20
Clean

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.630	20489642	90.812 ng/ml
62) S DCBP (S)	10.551	10248760	92.145 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.307	2281	0.369 ng/ml
3) Aroclor 1016 (2)	6.801	10752	0.940 ng/ml
4) Aroclor 1016 (3)	6.911	6858	1.280 ng/ml
5) Aroclor 1016 (4)	7.004	8287	1.677 ng/ml
6) Aroclor 1016 (5)	7.042	8379	1.511 ng/ml
7) Aroclor 1016 (6)	7.167	10112	1.770 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.806	6155	3.543 ng/ml
10) Aroclor 1221 (2)	5.880	2591	1.509 ng/ml
11) Aroclor 1221 (3)	5.949	32038	5.614 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.949	32038	7.010 ng/ml
14) Aroclor 1232 (2)	6.307	2281	0.877 ng/ml
15) Aroclor 1232 (3)	6.801	10752	2.198 ng/ml
16) Aroclor 1232 (4)	7.004	8287	4.898 ng/ml
17) Aroclor 1232 (5)	7.042	8379	4.027 ng/ml
18) Aroclor 1232 (6)	7.167	10112	4.661 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.307	2281	0.502 ng/ml
21) Aroclor 1242 (2)	6.801	10752	1.219 ng/ml
22) Aroclor 1242 (3)	6.911	6858	1.791 ng/ml
23) Aroclor 1242 (4)	7.004	8287	2.509 ng/ml
24) Aroclor 1242 (5)	7.042	8379	2.098 ng/ml
25) Aroclor 1242 (6)	7.167	10112	2.425 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.756	5790	1.122 ng/ml
28) Aroclor 1248 (2)	7.004	8287	1.303 ng/ml
29) Aroclor 1248 (3)	7.042	8379	1.412 ng/ml
30) Aroclor 1248 (4)	7.167	10112	1.386 ng/ml
31) Aroclor 1248 (5)	7.538	44690	5.020 ng/ml
32) Aroclor 1248 (6)	7.679	43107	5.295 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.495	12470	1.472 ng/ml
35) Aroclor 1254 (2)	7.679	43107	3.099 ng/ml
36) Aroclor 1254 (3)	8.002	12574	0.829 ng/ml
37) Aroclor 1254 (4)	8.266	37477	3.433 ng/ml
38) Aroclor 1254 (5)	8.581	4733	0.421 ng/ml
39) Aroclor 1254 (6)	8.814	1031	0.292 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	11404	1.083 ng/ml
42) Aroclor 1260 (2)	8.351	8866	0.695 ng/ml
43) Aroclor 1260 (3)	8.581	4733	0.357 ng/ml
44) Aroclor 1260 (4)	9.066	3813	0.180 ng/ml
45) Aroclor 1260 (5)	9.322	4847	0.396 ng/ml
46) Aroclor 1260 (6)	9.899	14949	3.063 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R004.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:15
 Operator : MJB / KAK
 Sample : 0A13050-ICB1
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:23:02 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

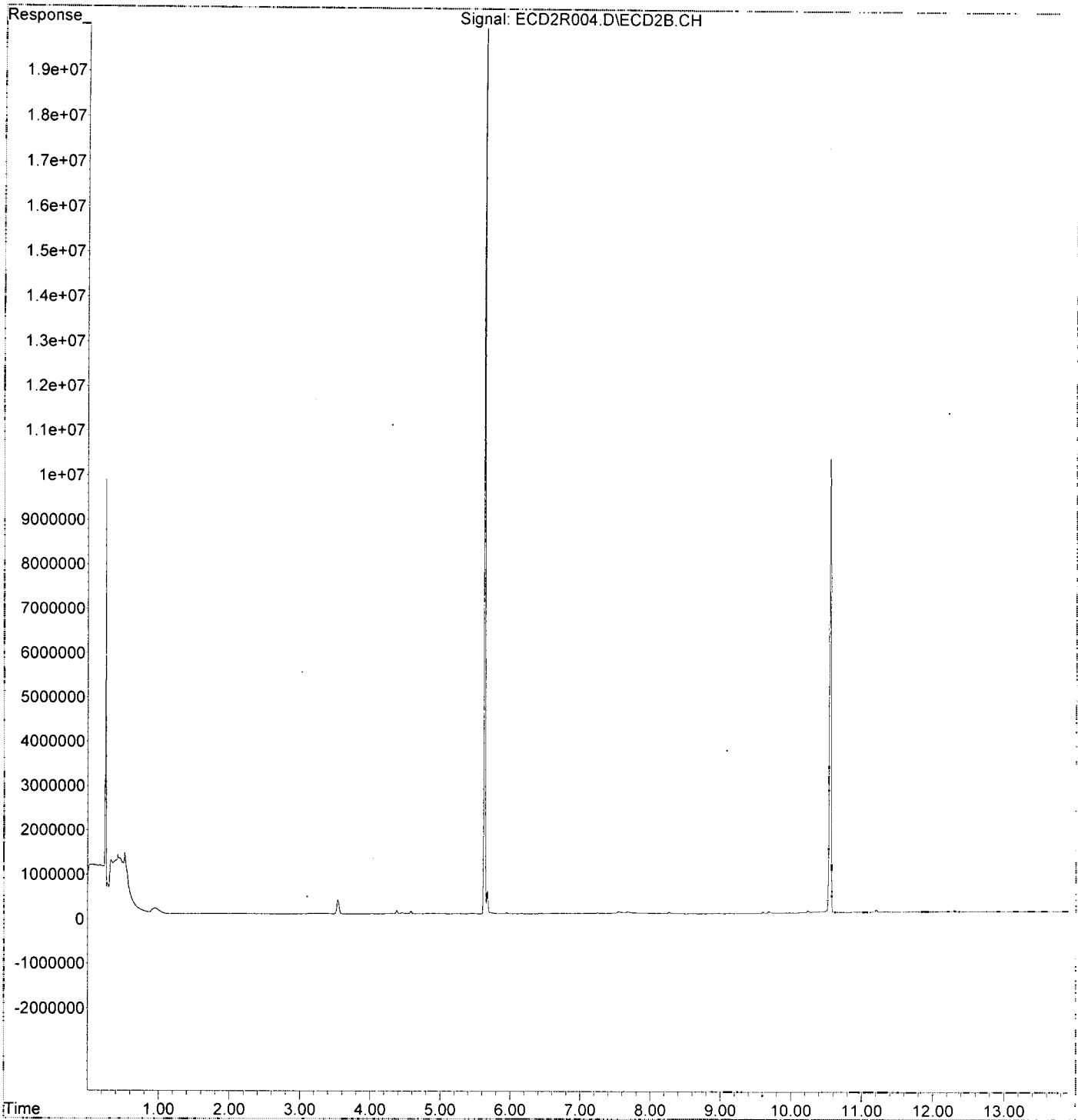
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	8.351	8866	0.839 ng/ml
49)	Aroclor 1262 (2)	8.652	2754	0.180 ng/ml
50)	Aroclor 1262 (3)	8.829	2251	0.176 ng/ml
51)	Aroclor 1262 (4)	9.066	3813	0.139 ng/ml
52)	Aroclor 1262 (5)	9.322	4847	0.295 ng/ml
53)	Aroclor 1262 (6)	9.899	14949	2.076 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.867	1260	0.202 ng/ml
56)	Aroclor 1268 (2)	9.322	4847	0.175 ng/ml
57)	Aroclor 1268 (3)	9.393	5166	0.229 ng/ml
58)	Aroclor 1268 (4)	9.605	45322	2.354 ng/ml
59)	Aroclor 1268 (5)	9.899	14949	1.911 ng/ml
60)	Aroclor 1268 (6)	10.242	60375	1.193 ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R004.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:15
Operator : MJB / KAK
Sample : 0A13050-ICB1
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:02 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R012.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:36
 Operator : MJB / KAK
 Sample : 0A13050-IBL1
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:23:31 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

[Signature]
 1/14/20
 Clean

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.626	1688	0.007 ng/ml
62) S DCBP (S)	10.549	12235	0.110 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.301	11225	1.816 ng/ml
3) Aroclor 1016 (2)	6.790	16600	1.451 ng/ml
4) Aroclor 1016 (3)	6.922	16045	2.995 ng/ml
5) Aroclor 1016 (4)	7.002	17187	3.479 ng/ml
6) Aroclor 1016 (5)	7.050	17297	3.119 ng/ml
7) Aroclor 1016 (6)	7.177	20261	3.547 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.809	10729	6.175 ng/ml
10) Aroclor 1221 (2)	5.875	9335	5.437 ng/ml
11) Aroclor 1221 (3)	5.964	12881	2.257 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.964	12881	2.819 ng/ml
14) Aroclor 1232 (2)	6.296	11019	4.234 ng/ml
15) Aroclor 1232 (3)	6.790	16600	3.393 ng/ml
16) Aroclor 1232 (4)	7.002	17187	10.159 ng/ml
17) Aroclor 1232 (5)	7.050	17297	8.313 ng/ml
18) Aroclor 1232 (6)	7.177	20261	9.338 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.301	11225	2.469 ng/ml
21) Aroclor 1242 (2)	6.790	16600	1.882 ng/ml
22) Aroclor 1242 (3)	6.922	16045	4.189 ng/ml
23) Aroclor 1242 (4)	7.002	17187	5.203 ng/ml
24) Aroclor 1242 (5)	7.050	17297	4.331 ng/ml
25) Aroclor 1242 (6)	7.177	20261	4.858 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.733	14917	2.890 ng/ml
28) Aroclor 1248 (2)	7.002	17187	2.703 ng/ml
29) Aroclor 1248 (3)	7.050	17297	2.914 ng/ml
30) Aroclor 1248 (4)	7.177	20261	2.777 ng/ml
31) Aroclor 1248 (5)	7.539	40332	4.531 ng/ml
32) Aroclor 1248 (6)	7.688	50144	6.159 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.500	20521	2.422 ng/ml
35) Aroclor 1254 (2)	7.688	50144	3.605 ng/ml
36) Aroclor 1254 (3)	8.005	20501	1.351 ng/ml
37) Aroclor 1254 (4)	8.229	15200	1.392 ng/ml
38) Aroclor 1254 (5)	8.580	11034	0.981 ng/ml
39) Aroclor 1254 (6)	8.795	231	0.065 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.145	19053	1.810 ng/ml
42) Aroclor 1260 (2)	8.351	14859	1.164 ng/ml
43) Aroclor 1260 (3)	8.584	10985	0.828 ng/ml
44) Aroclor 1260 (4)	9.068	8772	0.415 ng/ml
45) Aroclor 1260 (5)	9.323	6842	0.559 ng/ml
46) Aroclor 1260 (6)	9.889	5119	1.049 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A13050\
 Data File : ECD2R012.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:36
 Operator : MJB / KAK
 Sample : 0A13050-IBL1
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:23:31 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

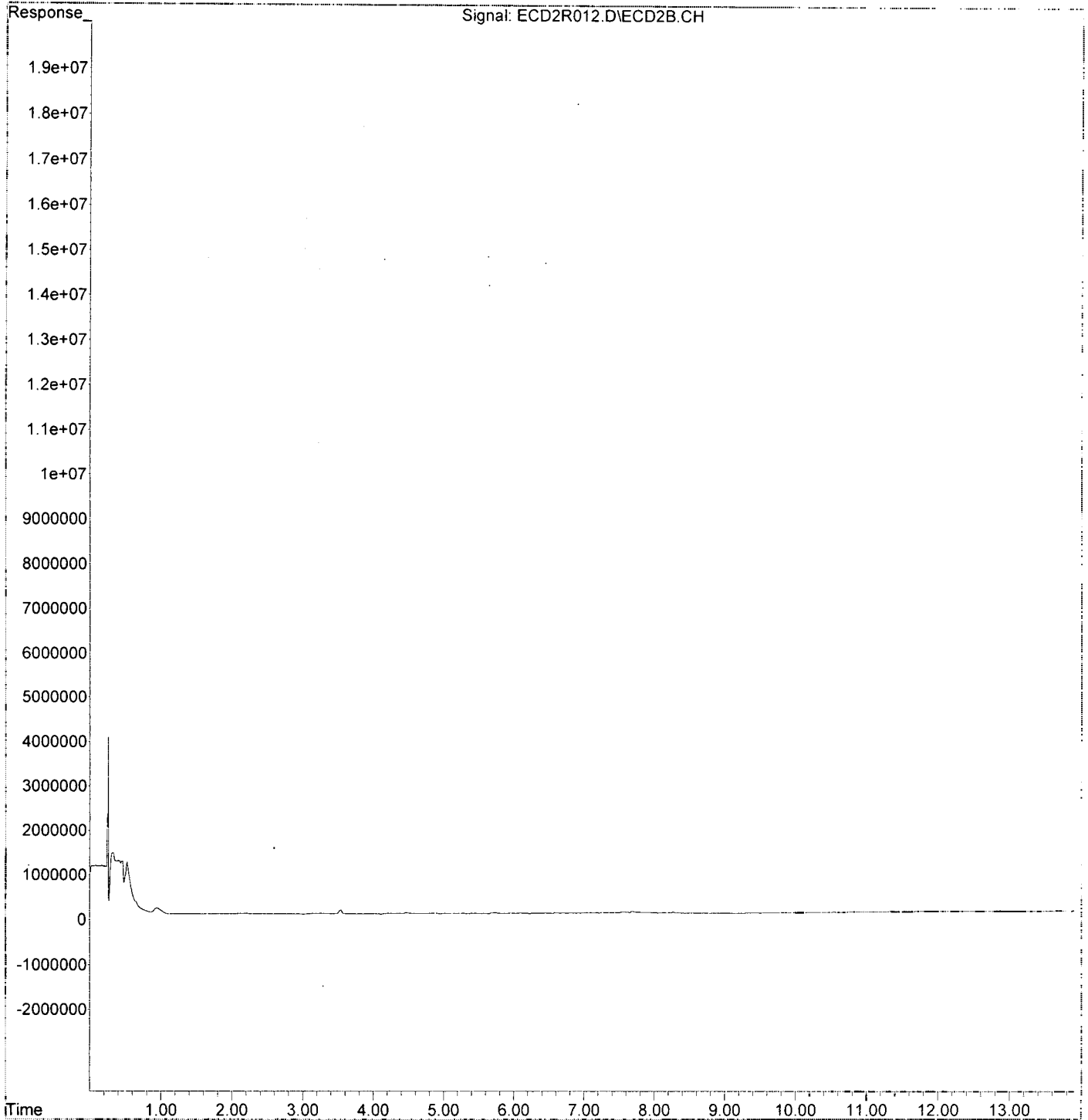
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.351	14859	1.406 ng/ml
49) Aroclor 1262 (2)	8.648	8953	0.586 ng/ml
50) Aroclor 1262 (3)	8.830	8859	0.692 ng/ml
51) Aroclor 1262 (4)	9.068	8772	0.319 ng/ml
52) Aroclor 1262 (5)	9.323	6842	0.417 ng/ml
53) Aroclor 1262 (6)	9.889	5119	0.711 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.866	6961	1.117 ng/ml
56) Aroclor 1268 (2)	9.323	6842	0.246 ng/ml
57) Aroclor 1268 (3)	9.392	5187	0.230 ng/ml
58) Aroclor 1268 (4)	9.602	4728	0.246 ng/ml
59) Aroclor 1268 (5)	9.889	5119	0.654 ng/ml
60) Aroclor 1268 (6)	10.234	4357	0.086 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R012.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:36
Operator : MJB / KAK
Sample : 0A13050-IBL1
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:23:31 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R013.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:54
 Operator : MJB / KAK
 Sample : 0A13050-ICV1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:37:43 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20
1016, 1260

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.630	42078237	186.496	ng/ml
62) S DCBP (S)	10.551	20822783	187.215	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.301	2889380	467.387	ng/ml
3) Aroclor 1016 (2)	6.790	5607269	490.088	ng/ml
4) Aroclor 1016 (3)	6.917	2567499	479.323	ng/ml
5) Aroclor 1016 (4)	7.004	2249246	455.243	ng/ml
6) Aroclor 1016 (5)	7.048	2695002	485.978	ng/ml
7) Aroclor 1016 (6)	7.174	2593036	453.917	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.805	201677	116.072	ng/ml
10) Aroclor 1221 (2)	5.878	410071	238.833	ng/ml
11) Aroclor 1221 (3)	5.965	1966837	344.635	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.965	1966837	430.380	ng/ml
14) Aroclor 1232 (2)	6.301	2889380	1110.133	ng/ml
15) Aroclor 1232 (3)	6.790	5607269	1146.221	ng/ml
16) Aroclor 1232 (4)	7.004	2249246	1329.470	ng/ml
17) Aroclor 1232 (5)	7.048	2695002	1295.148	ng/ml
18) Aroclor 1232 (6)	7.174	2593036	1195.127	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.301	2889380	635.541	ng/ml
21) Aroclor 1242 (2)	6.790	5607269	635.568	ng/ml
22) Aroclor 1242 (3)	6.917	2567499	670.336	ng/ml
23) Aroclor 1242 (4)	7.004	2249246	680.849	ng/ml
24) Aroclor 1242 (5)	7.048	2695002	674.775	ng/ml
25) Aroclor 1242 (6)	7.174	2593036	621.710	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.763	4488766	869.574	ng/ml
28) Aroclor 1248 (2)	7.004	2249246	353.691	ng/ml
29) Aroclor 1248 (3)	7.048	2695002	454.027	ng/ml
30) Aroclor 1248 (4)	7.174	2593036	355.429	ng/ml
31) Aroclor 1248 (5)	7.539	576503	64.763	ng/ml
32) Aroclor 1248 (6)	7.698	2400401	294.846	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.516	2114363	249.516	ng/ml
35) Aroclor 1254 (2)	7.698	2400401	172.569	ng/ml
36) Aroclor 1254 (3)	8.008	1313048	86.531	ng/ml
37) Aroclor 1254 (4)	8.247	825780	75.645	ng/ml
38) Aroclor 1254 (5)	8.583	7455081	662.753	ng/ml
39) Aroclor 1254 (6)	8.801	882029	250.066	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.144	5628529	534.632	ng/ml
42) Aroclor 1260 (2)	8.350	7018796	549.956	ng/ml
43) Aroclor 1260 (3)	8.583	7455081	562.174	ng/ml
44) Aroclor 1260 (4)	9.067	10304134	487.136	ng/ml
45) Aroclor 1260 (5)	9.325	6100150	498.593	ng/ml
46) Aroclor 1260 (6)	9.890	1867409	382.669	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

471.989

502.527

Data Path : K:\DATA\0A13050\
 Data File : ECD2R013.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:54
 Operator : MJB / KAK
 Sample : 0A13050-ICV1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:37:43 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

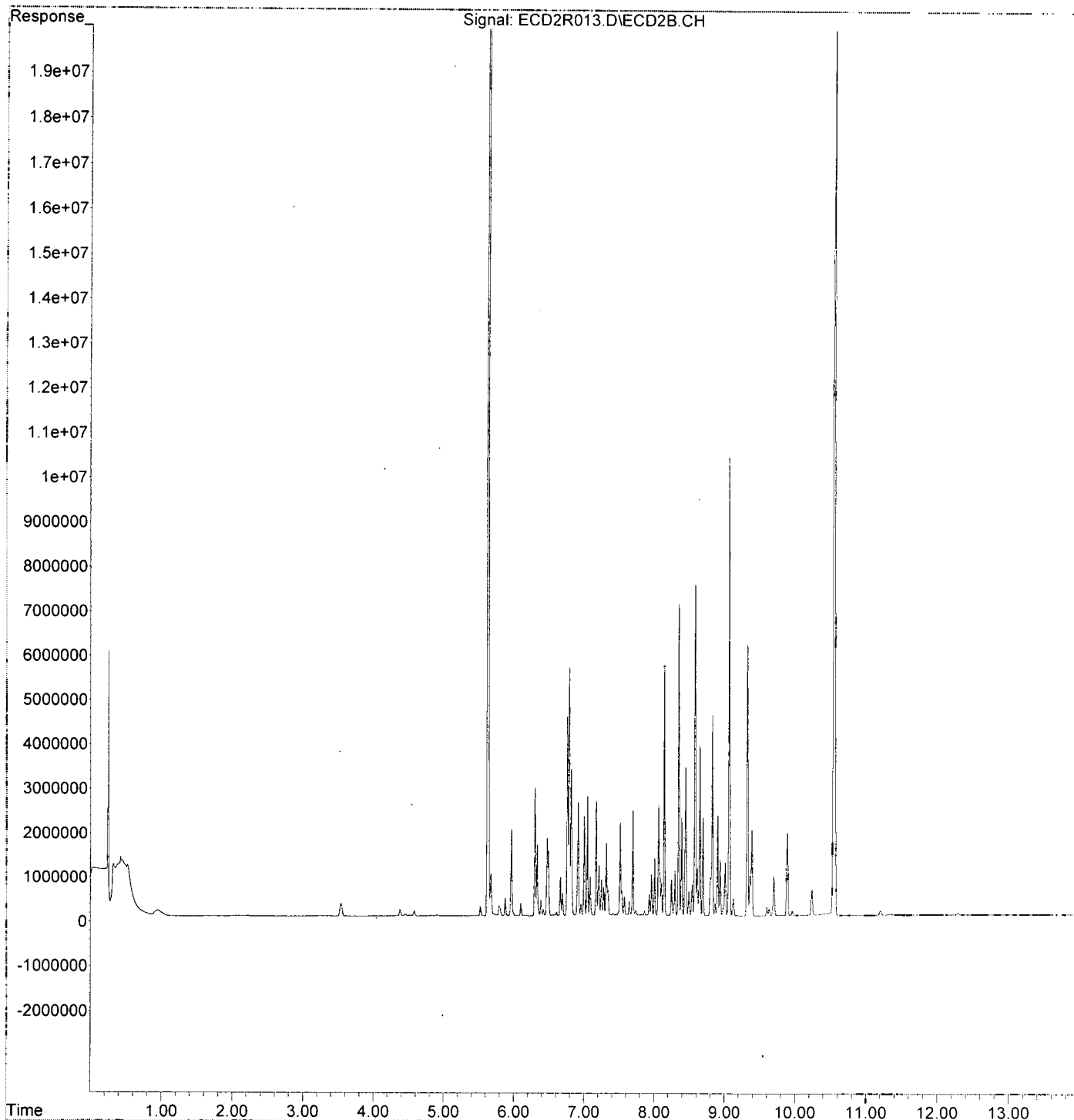
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	8.350	7018796	663.923	ng/ml
49)	Aroclor 1262 (2)	8.651	3830979	250.759	ng/ml
50)	Aroclor 1262 (3)	8.829	4526983	353.555	ng/ml
51)	Aroclor 1262 (4)	9.067	10304134	374.361	ng/ml
52)	Aroclor 1262 (5)	9.325	6100150	371.517	ng/ml
53)	Aroclor 1262 (6)	9.890	1867409	259.343	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	8.869	290538	46.619	ng/ml
56)	Aroclor 1268 (2)	9.325	6100150	219.694	ng/ml
57)	Aroclor 1268 (3)	9.389	1939101	86.120	ng/ml
58)	Aroclor 1268 (4)	9.604	197089	10.237	ng/ml
59)	Aroclor 1268 (5)	9.890	1867409	238.702	ng/ml
60)	Aroclor 1268 (6)	10.239	589830	11.653	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R013.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:54
Operator : MJB / KAK
Sample : 0A13050-ICV1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:37:43 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R021.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 22:15
 Operator : MJB / KAK
 Sample : 0A13050-ICV2
 Misc :
 ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:38:18 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

1/14/20
1221, 125A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.627	8366007	37.079	ng/ml
62) S DCBP (S)	10.548	9358034	84.137	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.299	530484	85.811	ng/ml
3) Aroclor 1016 (2)	6.789	860190	75.183	ng/ml
4) Aroclor 1016 (3)	6.916	419193	78.259	ng/ml
5) Aroclor 1016 (4)	7.003	2660118	538.403	ng/ml
6) Aroclor 1016 (5)	7.047	962899	173.636	ng/ml
7) Aroclor 1016 (6)	7.173	1702556	298.036	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.805	1591287	915.838	ng/ml
10) Aroclor 1221 (2)	5.876	1584717	922.969	ng/ml
11) Aroclor 1221 (3)	5.964	5308894	930.240	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.964	5308894	1161.684	ng/ml
14) Aroclor 1232 (2)	6.299	530484	203.818	ng/ml
15) Aroclor 1232 (3)	6.789	860190	175.837	ng/ml
16) Aroclor 1232 (4)	7.003	2660118	1572.325	ng/ml
17) Aroclor 1232 (5)	7.047	962899	462.744	ng/ml
18) Aroclor 1232 (6)	7.173	1702556	784.706	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.299	530484	116.684	ng/ml
21) Aroclor 1242 (2)	6.789	860190	97.500	ng/ml
22) Aroclor 1242 (3)	6.916	419193	109.445	ng/ml
23) Aroclor 1242 (4)	7.003	2660118	805.220	ng/ml
24) Aroclor 1242 (5)	7.047	962899	241.091	ng/ml
25) Aroclor 1242 (6)	7.173	1702556	408.207	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.762	678412	131.424	ng/ml
28) Aroclor 1248 (2)	7.003	2660118	418.300	ng/ml
29) Aroclor 1248 (3)	7.047	962899	162.220	ng/ml
30) Aroclor 1248 (4)	7.173	1702556	233.370	ng/ml
31) Aroclor 1248 (5)	7.538	2699412	303.245	ng/ml
32) Aroclor 1248 (6)	7.697	7172222	880.977	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.516	4718199	556.795	ng/ml
35) Aroclor 1254 (2)	7.697	7172222	515.622	ng/ml
36) Aroclor 1254 (3)	8.008	7608333	501.395	ng/ml
37) Aroclor 1254 (4)	8.246	5568780	510.126	ng/ml
38) Aroclor 1254 (5)	8.580	5642709	501.634	ng/ml
39) Aroclor 1254 (6)	8.811	1659515	470.493	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.142	2581769	245.232	ng/ml
42) Aroclor 1260 (2)	8.349	3126649	244.988	ng/ml
43) Aroclor 1260 (3)	8.580	5642709	425.506	ng/ml
44) Aroclor 1260 (4)	9.065	944219	44.639	ng/ml
45) Aroclor 1260 (5)	9.323	736233	60.176	ng/ml
46) Aroclor 1260 (6)	9.889	56325	11.542	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

923.016

509.344

Data Path : K:\DATA\0A13050\
 Data File : ECD2R021.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 22:15
 Operator : MJB / KAK
 Sample : 0A13050-ICV2
 Misc :
 ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:38:18 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

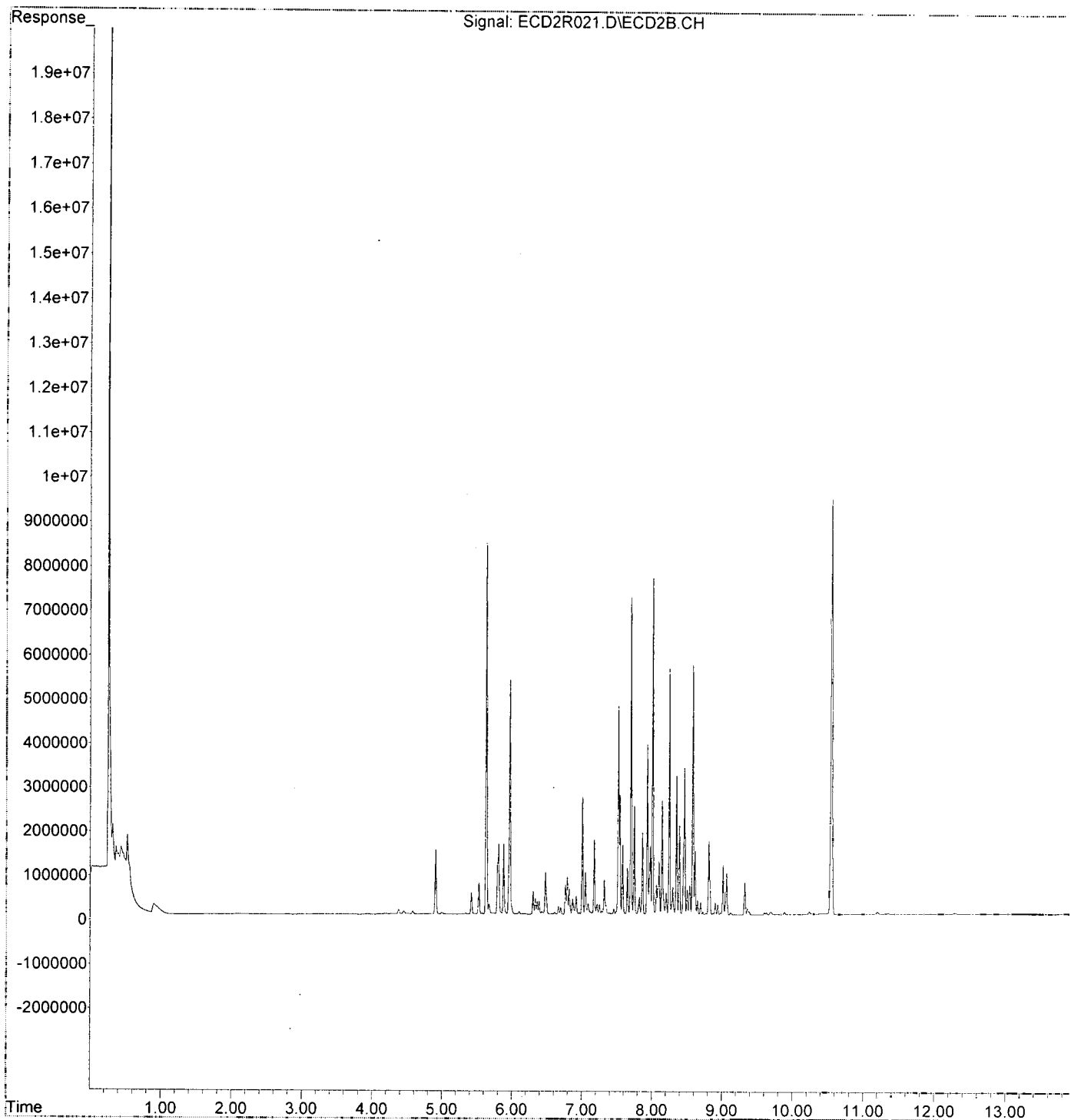
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.349	3126649	295.757 ng/ml
49) Aroclor 1262 (2)	8.649	316091	20.690 ng/ml
50) Aroclor 1262 (3)	8.811	1659515	129.607 ng/ml
51) Aroclor 1262 (4)	9.065	944219	34.305 ng/ml
52) Aroclor 1262 (5)	9.323	736233	44.839 ng/ml
53) Aroclor 1262 (6)	9.889	56325	7.822 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.870	37976	6.093 ng/ml
56) Aroclor 1268 (2)	9.323	736233	26.515 ng/ml
57) Aroclor 1268 (3)	9.385	69099	3.069 ng/ml
58) Aroclor 1268 (4)	9.604	39433	2.048 ng/ml
59) Aroclor 1268 (5)	9.889	56325	7.200 ng/ml
60) Aroclor 1268 (6)	10.240	59800	1.181 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R021.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:15
Operator : MJB / KAK
Sample : 0A13050-ICV2
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:18 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R022.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 22:32
 Operator : MJB / KAK
 Sample : 0A13050-ICV3
 Misc :
 ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:38:51 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten:
 1/14/20
 1232, 1262

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.627	8656583	38.367	ng/ml
62) S DCBP (S)	10.549	9384526	84.375	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	6.299	1350246	218.416	ng/ml
3) Aroclor 1016 (2)	6.789	2443408	213.559	ng/ml
4) Aroclor 1016 (3)	6.916	1134572	211.812	ng/ml
5) Aroclor 1016 (4)	7.002	928356	187.898	ng/ml
6) Aroclor 1016 (5)	7.047	1047657	188.920	ng/ml
7) Aroclor 1016 (6)	7.172	1131966	198.153	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.805	531565	305.933	ng/ml
10) Aroclor 1221 (2)	5.877	604859	352.281	ng/ml
11) Aroclor 1221 (3)	5.964	2221641	389.283	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.964	2221641	486.136	ng/ml
14) Aroclor 1232 (2)	6.299	1350246	518.780	ng/ml
15) Aroclor 1232 (3)	6.789	2443408	499.474	ng/ml
16) Aroclor 1232 (4)	7.002	928356	548.727	ng/ml
17) Aroclor 1232 (5)	7.047	1047657	503.477	ng/ml
18) Aroclor 1232 (6)	7.172	1131966	521.721	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.299	1350246	296.997	ng/ml
21) Aroclor 1242 (2)	6.789	2443408	276.953	ng/ml
22) Aroclor 1242 (3)	6.916	1134572	296.220	ng/ml
23) Aroclor 1242 (4)	7.002	928356	281.014	ng/ml
24) Aroclor 1242 (5)	7.047	1047657	262.312	ng/ml
25) Aroclor 1242 (6)	7.172	1131966	271.402	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.762	1888334	365.812	ng/ml
28) Aroclor 1248 (2)	7.002	928356	145.983	ng/ml
29) Aroclor 1248 (3)	7.047	1047657	176.499	ng/ml
30) Aroclor 1248 (4)	7.172	1131966	155.159	ng/ml
31) Aroclor 1248 (5)	7.538	1351685	151.845	ng/ml
32) Aroclor 1248 (6)	7.696	1745059	214.349	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.518	1328075	156.726	ng/ml
35) Aroclor 1254 (2)	7.696	1745059	125.455	ng/ml
36) Aroclor 1254 (3)	8.007	705753	46.510	ng/ml
37) Aroclor 1254 (4)	8.246	542138	49.662	ng/ml
38) Aroclor 1254 (5)	8.582	4080262	362.733	ng/ml
39) Aroclor 1254 (6)	8.797	1286937	364.863	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.143	4275414	406.105	ng/ml
42) Aroclor 1260 (2)	8.349	5037521	394.714	ng/ml
43) Aroclor 1260 (3)	8.582	4080262	307.685	ng/ml
44) Aroclor 1260 (4)	9.065	12366178	584.621	ng/ml
45) Aroclor 1260 (5)	9.324	7304758	597.051	ng/ml
46) Aroclor 1260 (6)	9.889	3314208	679.147	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Handwritten: 513.053

Data Path : K:\DATA\0A13050\
 Data File : ECD2R022.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 22:32
 Operator : MJB / KAK
 Sample : 0A13050-ICV3
 Misc :
 ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:38:51 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.349	5037521	476.510 ng/ml
49) Aroclor 1262 (2)	8.650	6862374	449.182 ng/ml
50) Aroclor 1262 (3)	8.827	5598953	437.275 ng/ml
51) Aroclor 1262 (4)	9.065	12366178	449.277 ng/ml
52) Aroclor 1262 (5)	9.324	7304758	444.882 ng/ml
53) Aroclor 1262 (6)	9.889	3314208	460.273 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.868	758406	121.692 ng/ml
56) Aroclor 1268 (2)	9.324	7304758	263.078 ng/ml
57) Aroclor 1268 (3)	9.388	3944690	175.193 ng/ml
58) Aroclor 1268 (4)	9.601	308022	15.998 ng/ml
59) Aroclor 1268 (5)	9.889	3314208	423.639 ng/ml
60) Aroclor 1268 (6)	10.238	1086007	21.456 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

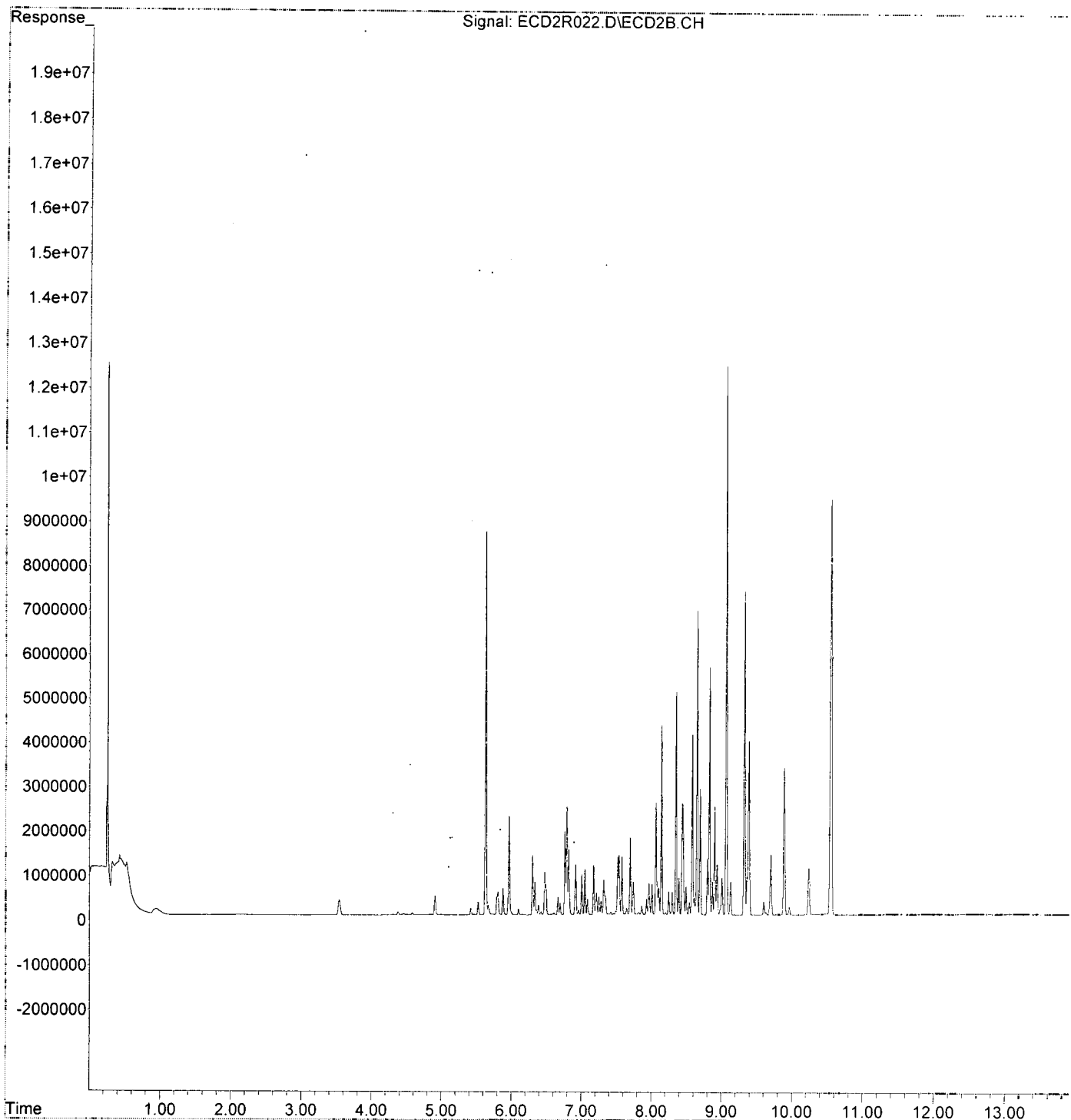
452.900

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R022.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:32
Operator : MJB / KAK
Sample : 0A13050-ICV3
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:38:51 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R023.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 22:50
 Operator : MJB / KAK
 Sample : 0A13050-ICV4
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:39:27 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten:
 1/14/20
 1242, 1268

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.627	9226068	40.891 ng/ml
62) S DCBP (S)	10.548	4337702	39.000 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.299	2413373	390.388 ng/ml
3) Aroclor 1016 (2)	6.788	4561837	398.715 ng/ml
4) Aroclor 1016 (3)	6.915	2111530	394.199 ng/ml
5) Aroclor 1016 (4)	7.003	1711882	346.482 ng/ml
6) Aroclor 1016 (5)	7.047	2043722	368.536 ng/ml
7) Aroclor 1016 (6)	7.173	2181722	381.916 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.804	182381	104.966 ng/ml
10) Aroclor 1221 (2)	5.876	369568	215.243 ng/ml
11) Aroclor 1221 (3)	5.964	1712969	300.152 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.964	1712969	374.829 ng/ml
14) Aroclor 1232 (2)	6.299	2413373	927.246 ng/ml
15) Aroclor 1232 (3)	6.788	4561837	932.517 ng/ml
16) Aroclor 1232 (4)	7.003	1711882	1011.848 ng/ml
17) Aroclor 1232 (5)	7.047	2043722	982.160 ng/ml
18) Aroclor 1232 (6)	7.173	2181722	1005.553 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.299	2413373	530.840 ng/ml
21) Aroclor 1242 (2)	6.788	4561837	517.071 ng/ml
22) Aroclor 1242 (3)	6.915	2111530	551.289 ng/ml
23) Aroclor 1242 (4)	7.003	1711882	518.188 ng/ml
24) Aroclor 1242 (5)	7.047	2043722	511.707 ng/ml
25) Aroclor 1242 (6)	7.173	2181722	523.093 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.762	3611646	699.656 ng/ml
28) Aroclor 1248 (2)	7.003	1711882	269.191 ng/ml
29) Aroclor 1248 (3)	7.047	2043722	344.306 ng/ml
30) Aroclor 1248 (4)	7.173	2181722	299.050 ng/ml
31) Aroclor 1248 (5)	7.538	2591584	291.132 ng/ml
32) Aroclor 1248 (6)	7.694	2020479	248.179 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.520	1648606	194.552 ng/ml
35) Aroclor 1254 (2)	7.694	2020479	145.255 ng/ml
36) Aroclor 1254 (3)	8.007	759688	50.064 ng/ml
37) Aroclor 1254 (4)	8.246	528301	48.395 ng/ml
38) Aroclor 1254 (5)	8.582	149523	13.293 ng/ml
39) Aroclor 1254 (6)	8.797	123265	34.947 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.142	66974	6.362 ng/ml
42) Aroclor 1260 (2)	8.346	120430	9.436 ng/ml
43) Aroclor 1260 (3)	8.582	149523	11.275 ng/ml
44) Aroclor 1260 (4)	9.065	1461812	69.108 ng/ml
45) Aroclor 1260 (5)	9.324	13500094	1103.424 ng/ml
46) Aroclor 1260 (6)	9.889	3935860	806.536 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Handwritten: 525.365

Data Path : K:\DATA\0A13050\
 Data File : ECD2R023.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 22:50
 Operator : MJB / KAK
 Sample : 0A13050-ICV4
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:39:27 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	8.346	120430	11.392	ng/ml
49) Aroclor 1262 (2)	8.650	2695648	176.446	ng/ml
50) Aroclor 1262 (3)	8.827	202812	15.840	ng/ml
51) Aroclor 1262 (4)	9.065	1461812	53.109	ng/ml
52) Aroclor 1262 (5)	9.324	13500094	822.196	ng/ml
53) Aroclor 1262 (6)	9.889	3935860	546.607	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.868	3124772	501.395	ng/ml
56) Aroclor 1268 (2)	9.324	13500094	486.200	ng/ml
57) Aroclor 1268 (3)	9.390	11777316	523.058	ng/ml
58) Aroclor 1268 (4)	9.601	9243944	480.124	ng/ml
59) Aroclor 1268 (5)	9.889	3935860	503.102	ng/ml
60) Aroclor 1268 (6)	10.238	26494457	523.450	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

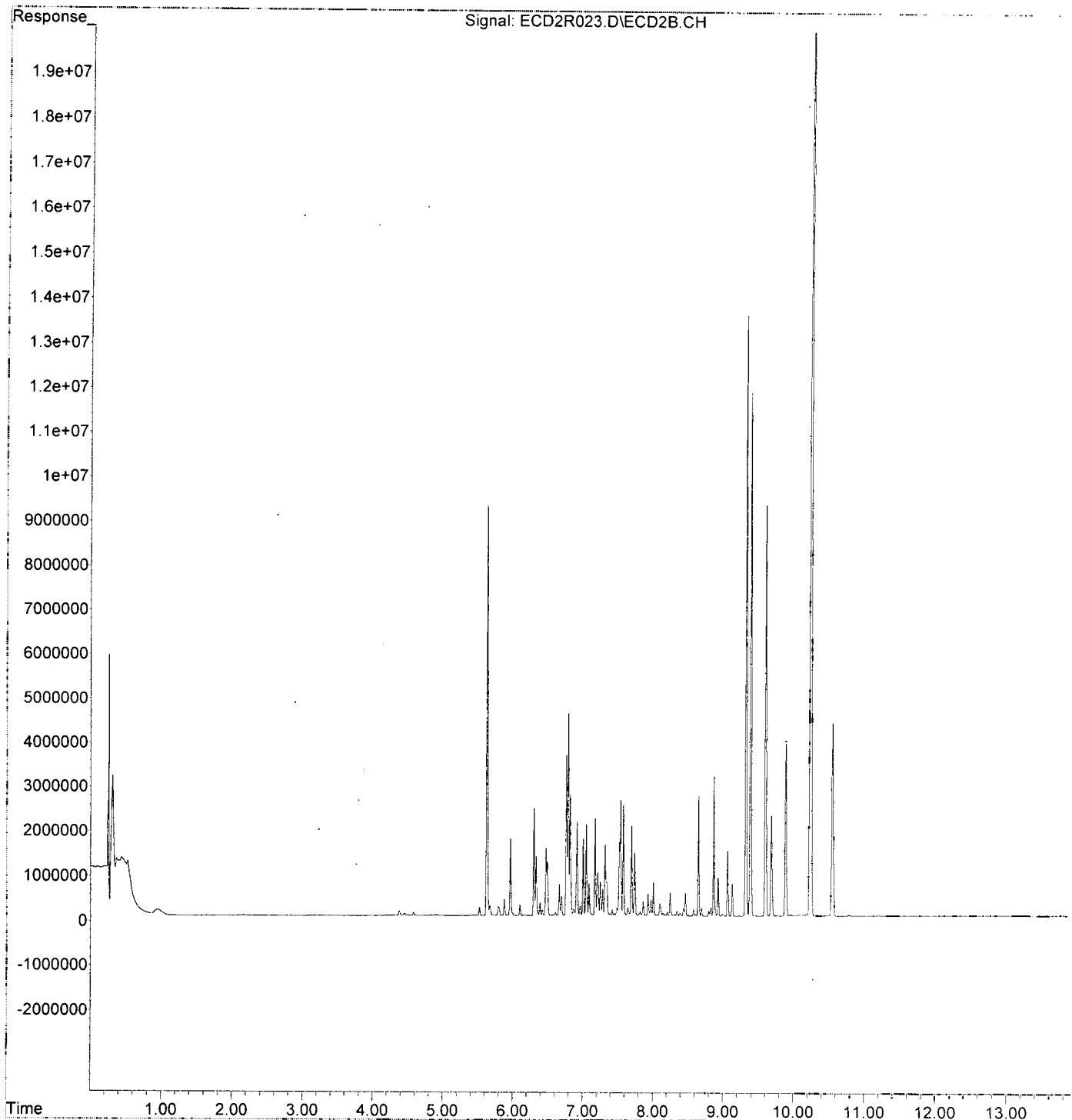
502.888

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R023.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 22:50
Operator : MJB / KAK
Sample : 0A13050-ICV4
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:39:27 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R025.D
 Signal(s) : ECD2B.CH
 Acq On : 14 Jan 2020 8:02
 Operator : MJB / KAK
 Sample : 0A13050-ICV5
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:40:40 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

[Handwritten signature]
 1/14/20
 12A8

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.626	3813	0.017 ng/ml
62) S DCBP (S)	10.549	7136	0.064 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	1394431	225.564 ng/ml
3) Aroclor 1016 (2)	6.790	2958219	258.555 ng/ml
4) Aroclor 1016 (3)	6.914	1341022	250.354 ng/ml
5) Aroclor 1016 (4)	7.004	3704379	749.759 ng/ml
6) Aroclor 1016 (5)	7.049	3586571	646.751 ng/ml
7) Aroclor 1016 (6)	7.174	4317847	755.849 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.804	21978	12.649 ng/ml
10) Aroclor 1221 (2)	5.877	39285	22.880 ng/ml
11) Aroclor 1221 (3)	5.964	217044	38.031 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.964	217044	47.493 ng/ml
14) Aroclor 1232 (2)	6.300	1394431	535.756 ng/ml
15) Aroclor 1232 (3)	6.790	2958219	604.710 ng/ml
16) Aroclor 1232 (4)	7.004	3704379	2189.560 ng/ml
17) Aroclor 1232 (5)	7.049	3586571	1723.613 ng/ml
18) Aroclor 1232 (6)	7.174	4317847	1990.089 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	6.300	1394431	306.716 ng/ml
21) Aroclor 1242 (2)	6.790	2958219	335.306 ng/ml
22) Aroclor 1242 (3)	6.914	1341022	350.121 ng/ml
23) Aroclor 1242 (4)	7.004	3704379	1121.319 ng/ml
24) Aroclor 1242 (5)	7.049	3586571	898.006 ng/ml
25) Aroclor 1242 (6)	7.174	4317847	1035.253 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.763	2856083	553.287 ng/ml
28) Aroclor 1248 (2)	7.004	3704379	582.509 ng/ml
29) Aroclor 1248 (3)	7.049	3586571	604.230 ng/ml
30) Aroclor 1248 (4)	7.174	4317847	591.850 ng/ml
31) Aroclor 1248 (5)	7.539	5461777	613.562 ng/ml
32) Aroclor 1248 (6)	7.696	4885408	600.083 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	7.521	3710121	437.832 ng/ml
35) Aroclor 1254 (2)	7.696	4885408	351.220 ng/ml
36) Aroclor 1254 (3)	8.008	2831335	186.587 ng/ml
37) Aroclor 1254 (4)	8.248	1962735	179.795 ng/ml
38) Aroclor 1254 (5)	8.581	433653	38.552 ng/ml
39) Aroclor 1254 (6)	8.811	168693	47.827 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	240144	22.810 ng/ml
42) Aroclor 1260 (2)	8.347	321684	25.205 ng/ml
43) Aroclor 1260 (3)	8.581	433653	32.701 ng/ml
44) Aroclor 1260 (4)	9.066	86034	4.067 ng/ml
45) Aroclor 1260 (5)	9.324	59779	4.886 ng/ml
46) Aroclor 1260 (6)	9.890	17482	3.582 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

590.920

Data Path : K:\DATA\0A13050\
 Data File : ECD2R025.D
 Signal(s) : ECD2B.CH
 Acq On : 14 Jan 2020 8:02
 Operator : MJB / KAK
 Sample : 0A13050-ICV5
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:40:40 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

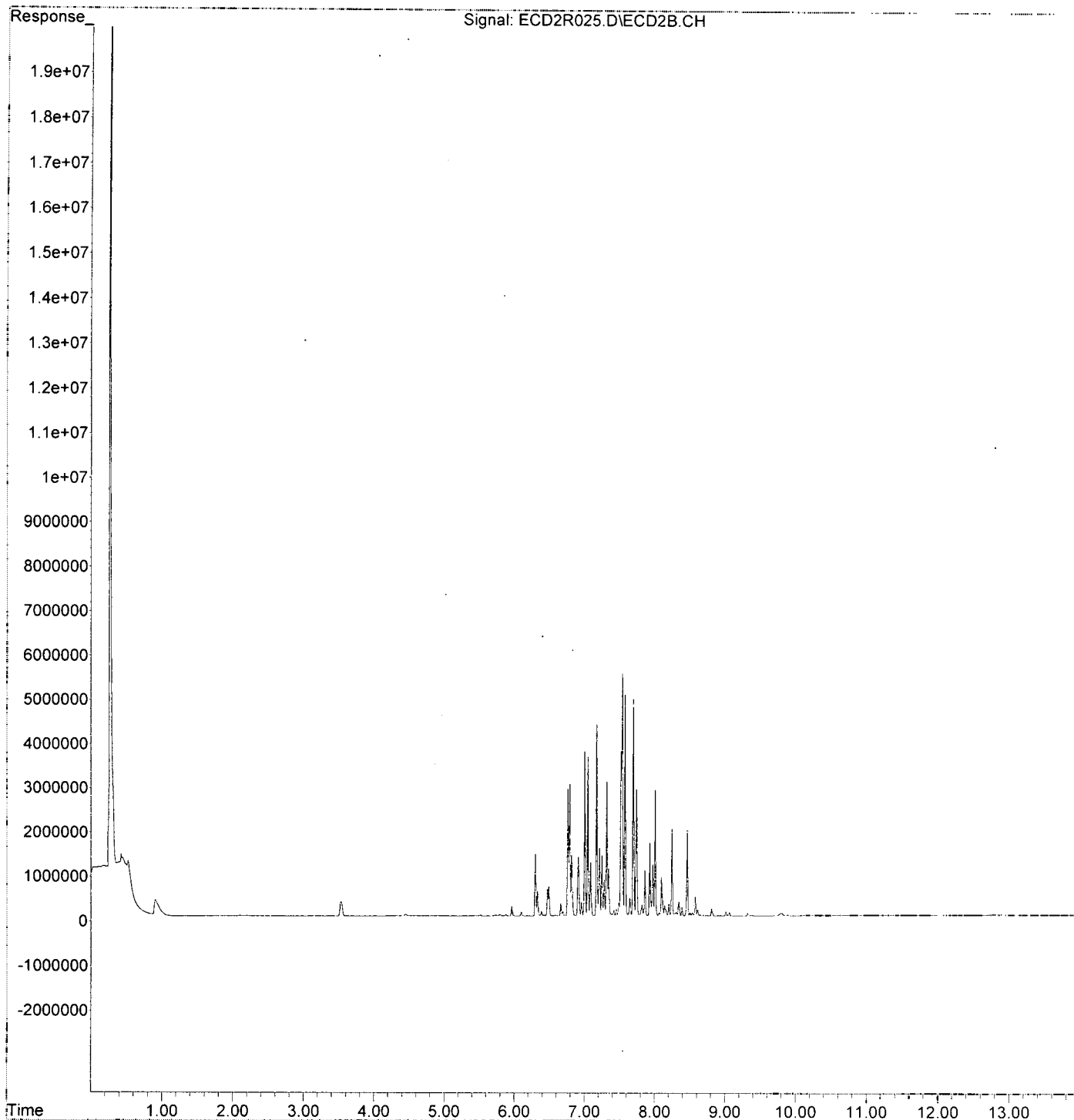
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.347	321684	30.429 ng/ml
49) Aroclor 1262 (2)	8.651	34532	2.260 ng/ml
50) Aroclor 1262 (3)	8.811	168693	13.175 ng/ml
51) Aroclor 1262 (4)	9.066	86034	3.126 ng/ml
52) Aroclor 1262 (5)	9.324	59779	3.641 ng/ml
53) Aroclor 1262 (6)	9.890	17482	2.428 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.871	5093	0.817 ng/ml
56) Aroclor 1268 (2)	9.324	59779	2.153 ng/ml
57) Aroclor 1268 (3)	9.389	17646	0.784 ng/ml
58) Aroclor 1268 (4)	9.602	2145	0.111 ng/ml
59) Aroclor 1268 (5)	9.890	17482	2.235 ng/ml
60) Aroclor 1268 (6)	10.239	7273	0.144 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R025.D
Signal(s) : ECD2B.CH
Acq On : 14 Jan 2020 8:02
Operator : MJB / KAK
Sample : 0A13050-ICV5
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:40:40 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\quant
 Data File : ECD2R005.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:33
 Operator : MJB / KAK
 Sample : 0A13050-CAL1
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:11 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.628	2095506	9.288	ng/ml ✓
62) S DCBP (S)	10.551	1072604	9.644	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.300	145279	23.500	ng/ml
3) Aroclor 1016 (2)	6.790	249458	21.803	ng/ml
4) Aroclor 1016 (3)	6.917	116035	21.662	ng/ml
5) Aroclor 1016 (4)	7.004	117409	23.763	ng/ml ✓
6) Aroclor 1016 (5)	7.049	131375	23.690	ng/ml
7) Aroclor 1016 (6)	7.174	135212	23.669	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.144	236430	22.458	ng/ml
42) Aroclor 1260 (2)	8.351	280991	22.017	ng/ml
43) Aroclor 1260 (3)	8.582	282360	21.292	ng/ml
44) Aroclor 1260 (4)	9.067	414593	19.600	ng/ml ✓
45) Aroclor 1260 (5)	9.325	257901	21.079	ng/ml
46) Aroclor 1260 (6)	9.891	103156	21.139	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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1/14/20

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R005.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:33
 Operator : MJB / KAK
 Sample : 0A13050-CAL1
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:11 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

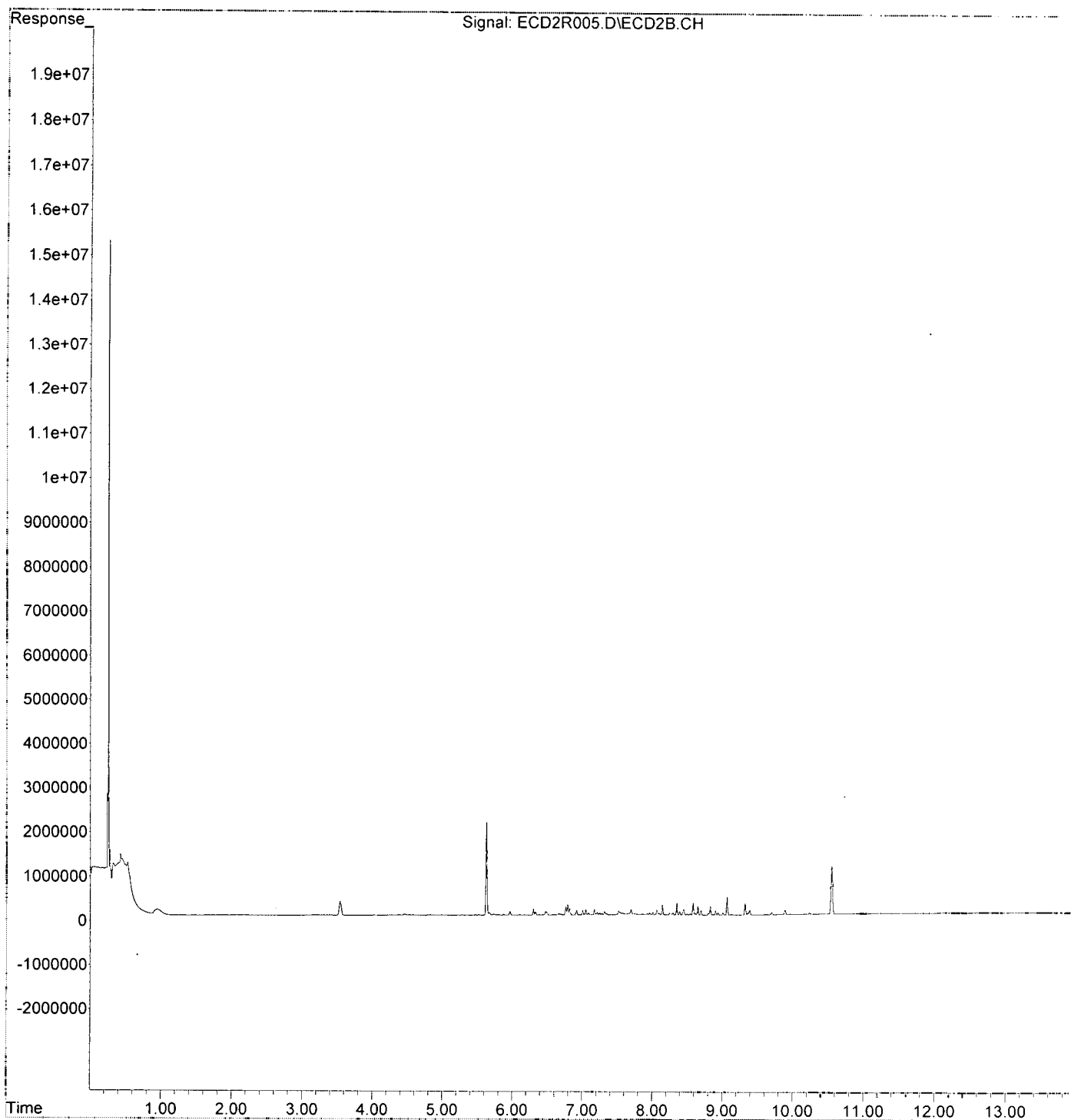
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\Quant
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:50
 Operator : MJB / KAK
 Sample : 0A13050-CAL2
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:32 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/14/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.628	5312749	23.547	ng/ml ✓
62) S DCBP (S)	10.550	2755983	24.779	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.300	343821	55.617	ng/ml
3) Aroclor 1016 (2)	6.790	597996	52.266	ng/ml
4) Aroclor 1016 (3)	6.917	290069	54.153	ng/ml ✓
5) Aroclor 1016 (4)	7.004	278534	56.375	ng/ml
6) Aroclor 1016 (5)	7.048	307931	55.528	ng/ml
7) Aroclor 1016 (6)	7.174	315508	55.230	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.144	540959	51.384	ng/ml
42) Aroclor 1260 (2)	8.350	656411	51.433	ng/ml
43) Aroclor 1260 (3)	8.582	674172	50.838	ng/ml
44) Aroclor 1260 (4)	9.066	1047953	49.543	ng/ml ✓
45) Aroclor 1260 (5)	9.325	608364	49.724	ng/ml
46) Aroclor 1260 (6)	9.891	261903	53.669	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:50
 Operator : MJB / KAK
 Sample : 0A13050-CAL2
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:32 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

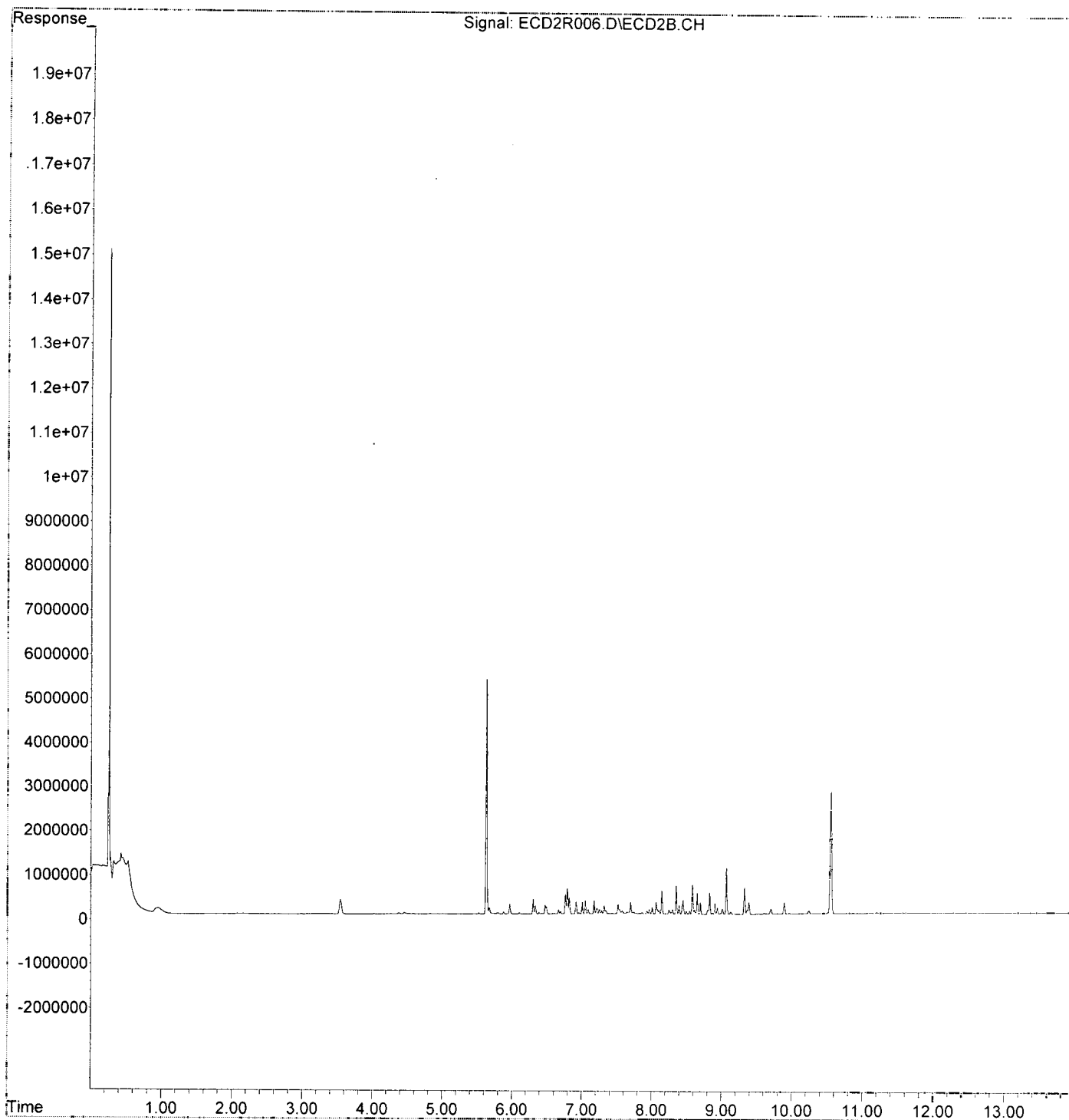
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:50
 Operator : MJB / KAK
 Sample : 0A13050-CAL2
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:32 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\Quant
 Data File : ECD2R007.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:08
 Operator : MJB / KAK
 Sample : 0A13050-CAL3
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:52 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.628	11084215	49.127	ng/ml ✓
62) S DCBP (S)	10.550	5396453	48.519	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.300	639728	103.483	ng/ml
3) Aroclor 1016 (2)	6.790	1142660	99.871	ng/ml
4) Aroclor 1016 (3)	6.917	536991	100.250	ng/ml
5) Aroclor 1016 (4)	7.003	519409	105.127	ng/ml
6) Aroclor 1016 (5)	7.048	569313	102.662	ng/ml
7) Aroclor 1016 (6)	7.174	588135	102.954	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.143	1060465	100.729	ng/ml
42) Aroclor 1260 (2)	8.351	1321460	103.543	ng/ml
43) Aroclor 1260 (3)	8.582	1327338	100.092	ng/ml
44) Aroclor 1260 (4)	9.066	2051063	96.966	ng/ml ✓
45) Aroclor 1260 (5)	9.325	1220407	99.749	ng/ml
46) Aroclor 1260 (6)	9.890	478851	98.126	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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1/14/20

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R007.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:08
 Operator : MJB / KAK
 Sample : 0A13050-CAL3
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:03:52 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

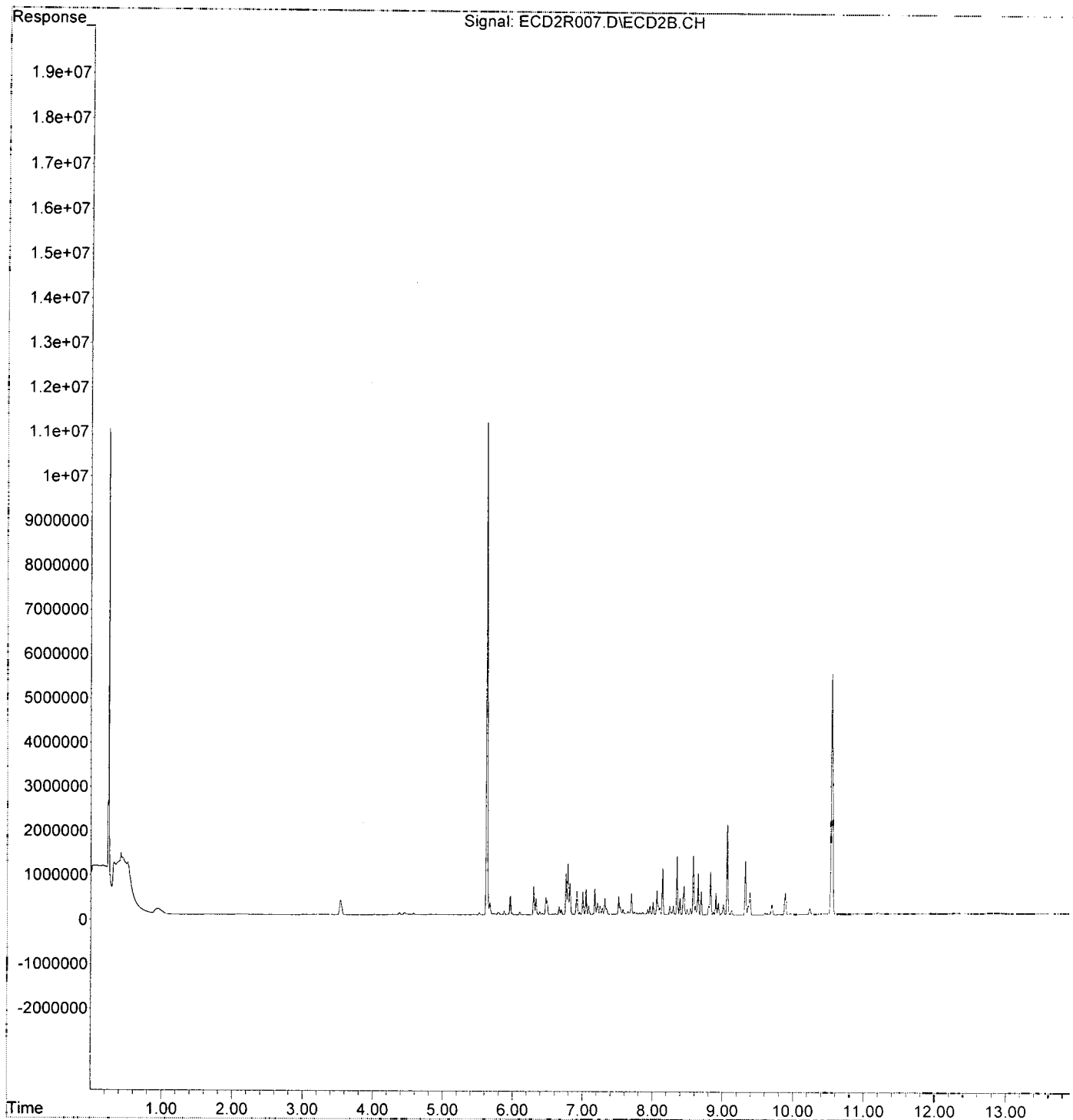
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:03:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\quant
 Data File : ECD2R008.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:25
 Operator : MJB / KAK
 Sample : 0A13050-CAT
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:04:13 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.629	22681880	100.529	ng/ml ✓
62) S DCBP (S)	10.551	10891716	97.926	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.301	1190843	192.631	ng/ml
3) Aroclor 1016 (2)	6.790	2334544	204.044	ng/ml
4) Aroclor 1016 (3)	6.917	1067264	199.246	ng/ml
5) Aroclor 1016 (4)	7.004	981904	198.735	ng/ml
6) Aroclor 1016 (5)	7.049	1076394	194.102	ng/ml
7) Aroclor 1016 (6)	7.174	1160064	203.072	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.144	2093221	198.827	ng/ml
42) Aroclor 1260 (2)	8.351	2511397	196.780	ng/ml
43) Aroclor 1260 (3)	8.582	2744238	206.938	ng/ml
44) Aroclor 1260 (4)	9.066	4251874	201.011	ng/ml ✓
45) Aroclor 1260 (5)	9.325	2471890	202.039	ng/ml
46) Aroclor 1260 (6)	9.891	1008936	206.751	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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1/14/20

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R008.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:25
 Operator : MJB / KAK
 Sample : 0A13050-CAL4
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:04:13 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

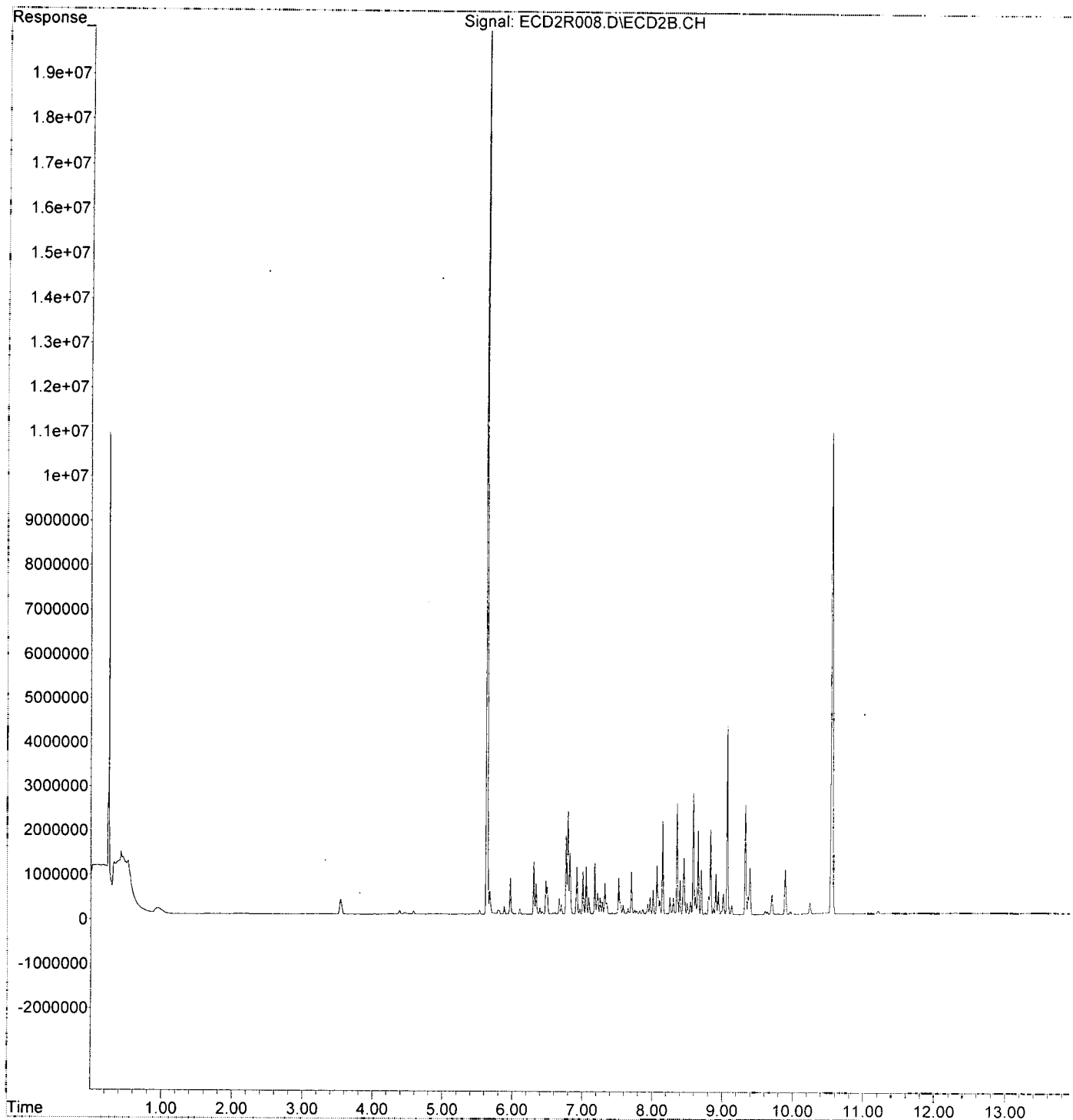
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\quant
 Data File : ECD2R009.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:43
 Operator : MJB / KAK
 Sample : 0A13050-CAT5
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:04:33 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.629	53881075	238.807	ng/ml ✓
62) S DCBP (S)	10.552	25218318	226.735	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.300	2835860	458.730	ng/ml
3) Aroclor 1016 (2)	6.790	5484312	479.341	ng/ml
4) Aroclor 1016 (3)	6.917	2538905	473.985	ng/ml
5) Aroclor 1016 (4)	7.003	2203390	445.962	ng/ml
6) Aroclor 1016 (5)	7.048	2536989	457.485	ng/ml
7) Aroclor 1016 (6)	7.174	2573883	450.564	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.144	5080914	482.616	ng/ml
42) Aroclor 1260 (2)	8.351	6152313	482.063	ng/ml
43) Aroclor 1260 (3)	8.583	6540031	493.172	ng/ml
44) Aroclor 1260 (4)	9.066	10496732	496.241	ng/ml
45) Aroclor 1260 (5)	9.325	6070844	496.198	ng/ml
46) Aroclor 1260 (6)	9.891	2392226	490.214	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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1/14/20

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R009.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:43
 Operator : MJB / KAK
 Sample : 0A13050-CAL5
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:04:33 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

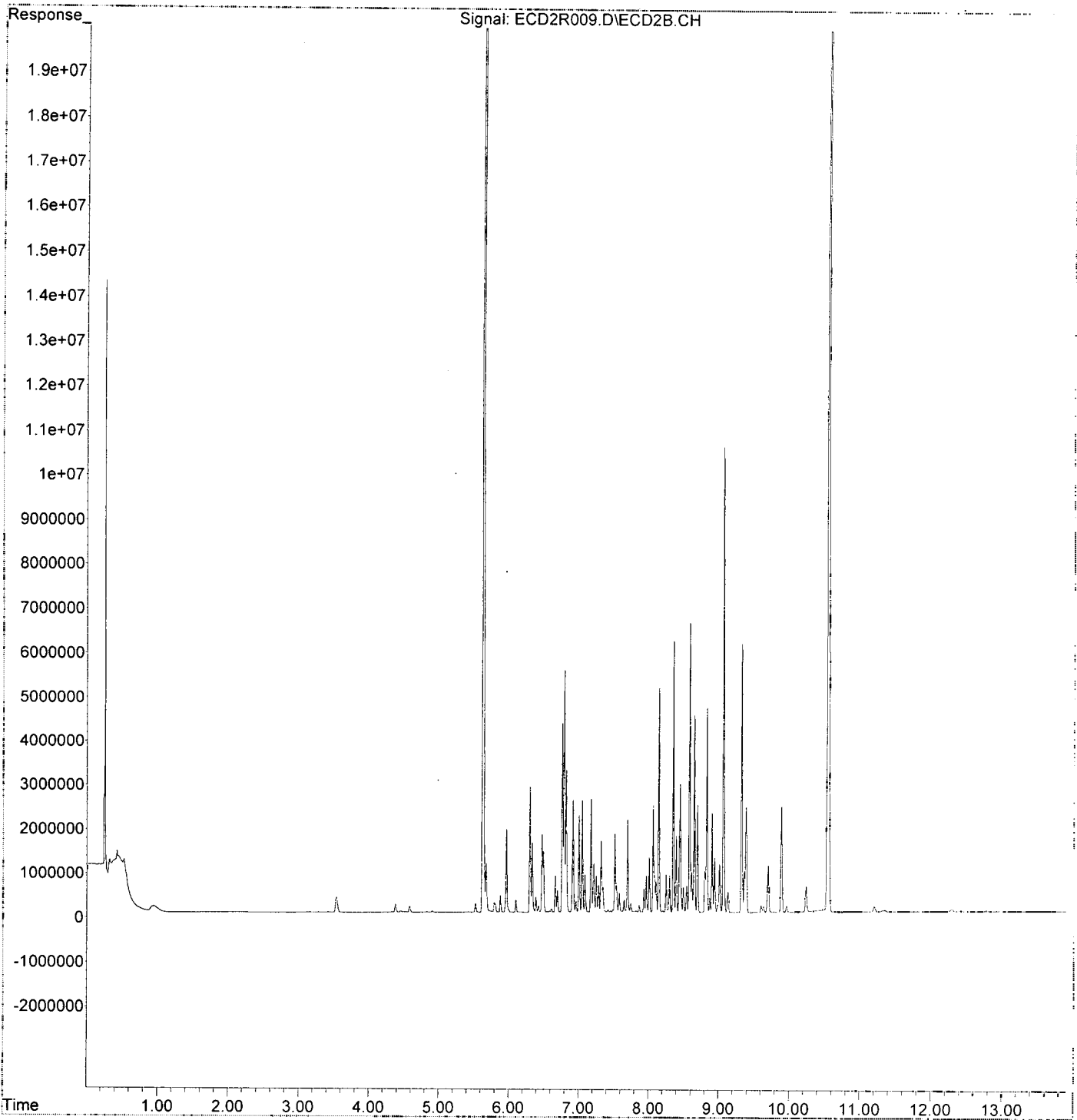
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:33 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\regquant\
 Data File : ECD2R010.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:01
 Operator : MJB / KAK
 Sample : 0A13050-CAL6
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:04:53 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.631	124870409	553.440	ng/ml
62) S DCBP (S)	10.551	58595711	526.828	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.300	5624087	909.755	ng/ml
3) Aroclor 1016 (2)	6.790	11025443	963.649	ng/ml
4) Aroclor 1016 (3)	6.917	5145954	960.692	ng/ml
5) Aroclor 1016 (4)	7.004	4338878	878.180	ng/ml
6) Aroclor 1016 (5)	7.048	5224293	942.075	ng/ml
7) Aroclor 1016 (6)	7.173	5149713	901.470	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.143	10123087	961.552	ng/ml
42) Aroclor 1260 (2)	8.350	12298764	963.667	ng/ml
43) Aroclor 1260 (3)	8.582	12961672	977.416	ng/ml
44) Aroclor 1260 (4)	9.066	21886590	1034.706	ng/ml
45) Aroclor 1260 (5)	9.325	12074358	986.892	ng/ml
46) Aroclor 1260 (6)	9.890	4594659	941.536	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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1/14/20

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R010.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:01
 Operator : MJB / KAK
 Sample : 0A13050-CAL6
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:04:53 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

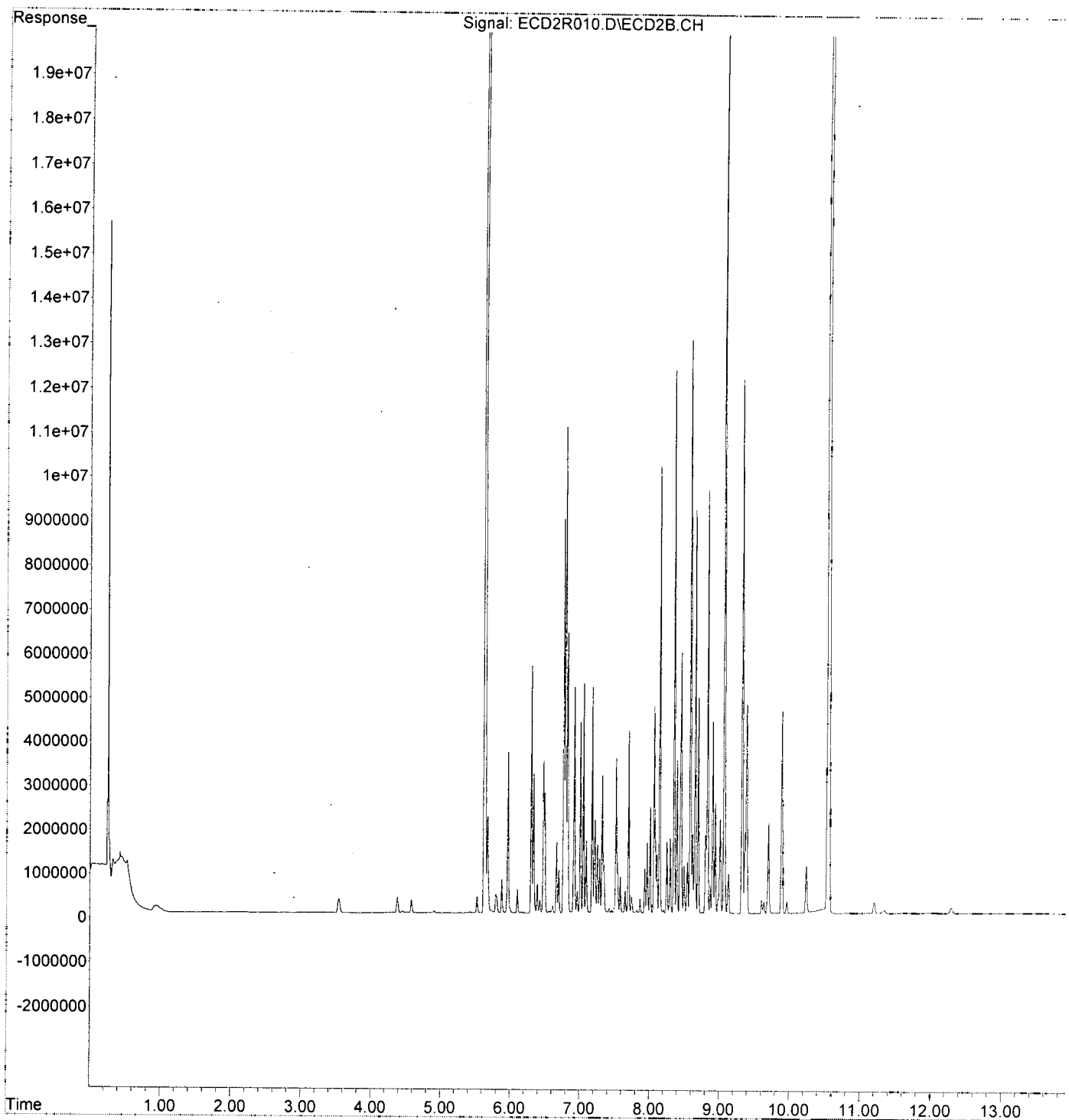
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:04:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\recquant
 Data File : ECD2R011.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:18
 Operator : MJB / KAK
 Sample : 0A13050-CAL7
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:05:13 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	5.633	194842413	863.564	ng/ml
62) S DCBP (S)	10.553	101081415	908.812	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	6.300	8229290	1331.173	ng/ml
3) Aroclor 1016 (2)	6.791	15844863	1384.877	ng/ml
4) Aroclor 1016 (3)	6.917	7443643	1389.645	ng/ml
5) Aroclor 1016 (4)	7.004	6442401	1303.929	ng/ml
6) Aroclor 1016 (5)	7.049	7076827	1276.135	ng/ml
7) Aroclor 1016 (6)	7.174	7407214	1296.650	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	8.144	14548054	1381.862	ng/ml
42) Aroclor 1260 (2)	8.351	17676726	1385.056	ng/ml
43) Aroclor 1260 (3)	8.583	18285536	1378.879	ng/ml
44) Aroclor 1260 (4)	9.067	32592843	1540.853	ng/ml
45) Aroclor 1260 (5)	9.325	17701773	1446.846	ng/ml
46) Aroclor 1260 (6)	9.891	6885880	1411.053	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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1/14/20

Data Path : K:\DATA\0A13050\requant\
 Data File : ECD2R011.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:18
 Operator : MJB / KAK
 Sample : 0A13050-CAL7
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 11:05:13 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:35:58 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

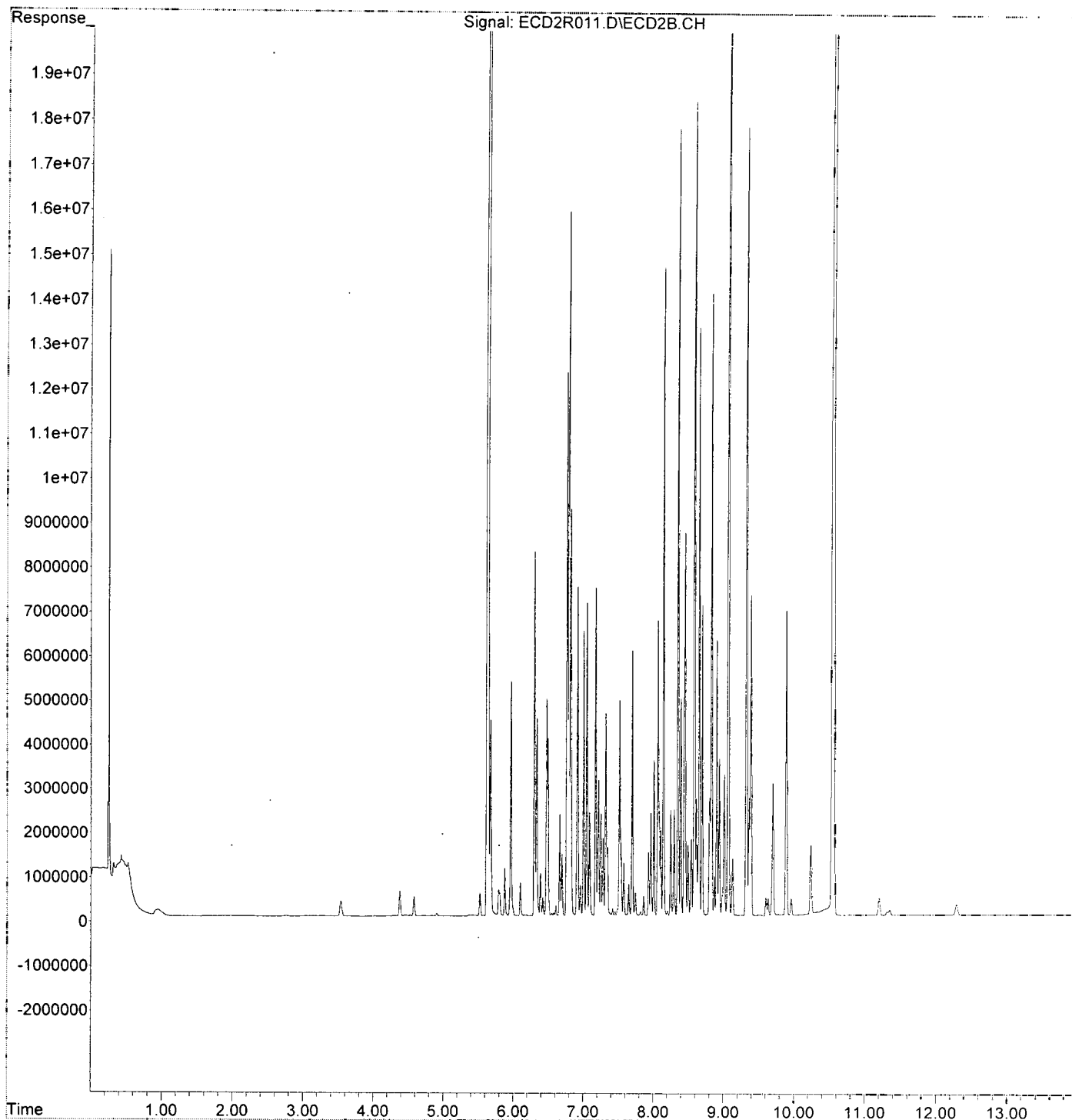
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\requant\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 11:05:13 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:35:58 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R005.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:33
 Operator : MJB / KAK
 Sample : 0A13050-CAL1
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 08:55:45 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/14/20

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S TCMX (S)	5.628	2095506	7.988 ng/ml
62) S DCBP (S)	10.551	1070638	7.294 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	145279	16.355 ng/ml
3) Aroclor 1016 (2)	6.790	249458	15.245 ng/ml
4) Aroclor 1016 (3)	6.917	116035	15.753 ng/ml
5) Aroclor 1016 (4)	7.004	117409	15.744 ng/ml
6) Aroclor 1016 (5)	7.049	131375	15.922 ng/ml
7) Aroclor 1016 (6)	7.174	135212	16.427 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	236430	14.980 ng/ml
42) Aroclor 1260 (2)	8.351	280991	14.356 ng/ml
43) Aroclor 1260 (3)	8.582	282360	14.025 ng/ml
44) Aroclor 1260 (4)	9.067	414593	13.397 ng/ml
45) Aroclor 1260 (5)	9.325	257901	14.410 ng/ml
46) Aroclor 1260 (6)	9.891	102375	14.840 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R005.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:33
 Operator : MJB / KAK
 Sample : 0A13050-CAL1
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 08:55:45 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

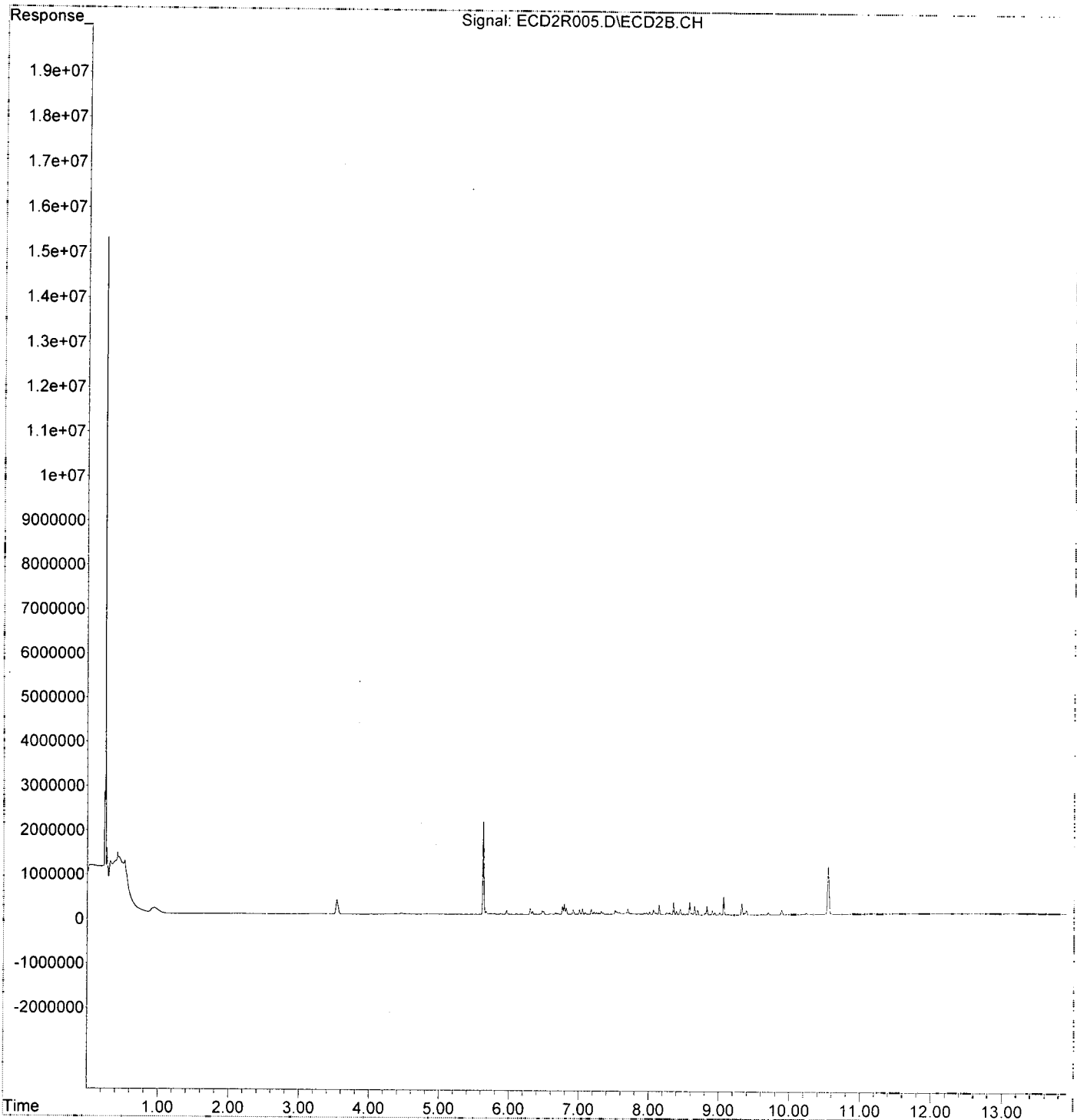
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R005.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:33
Operator : MJB / KAK
Sample : 0A13050-CAL1
Misc :
ALS Vial : 54 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:55:45 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:50
 Operator : MJB / KAK
 Sample : 0A13050-CAL2
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:01:01 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.628	5312749	20.252 ng/ml
62) S DCBP (S)	10.550	2755983	18.775 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	343821	38.705 ng/ml
3) Aroclor 1016 (2)	6.790	597996	36.545 ng/ml
4) Aroclor 1016 (3)	6.917	290069	39.380 ng/ml
5) Aroclor 1016 (4)	7.004	278534	37.350 ng/ml
6) Aroclor 1016 (5)	7.048	307931	37.320 ng/ml
7) Aroclor 1016 (6)	7.174	315508	38.331 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	540959	34.275 ng/ml
42) Aroclor 1260 (2)	8.350	656411	33.635 ng/ml
43) Aroclor 1260 (3)	8.582	674172	33.487 ng/ml
44) Aroclor 1260 (4)	9.066	1047953	38.864 ng/ml
45) Aroclor 1260 (5)	9.325	608364	33.992 ng/ml
46) Aroclor 1260 (6)	9.891	261903	37.965 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R006.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 17:50
 Operator : MJB / KAK
 Sample : 0A13050-CAL2
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:01:01 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

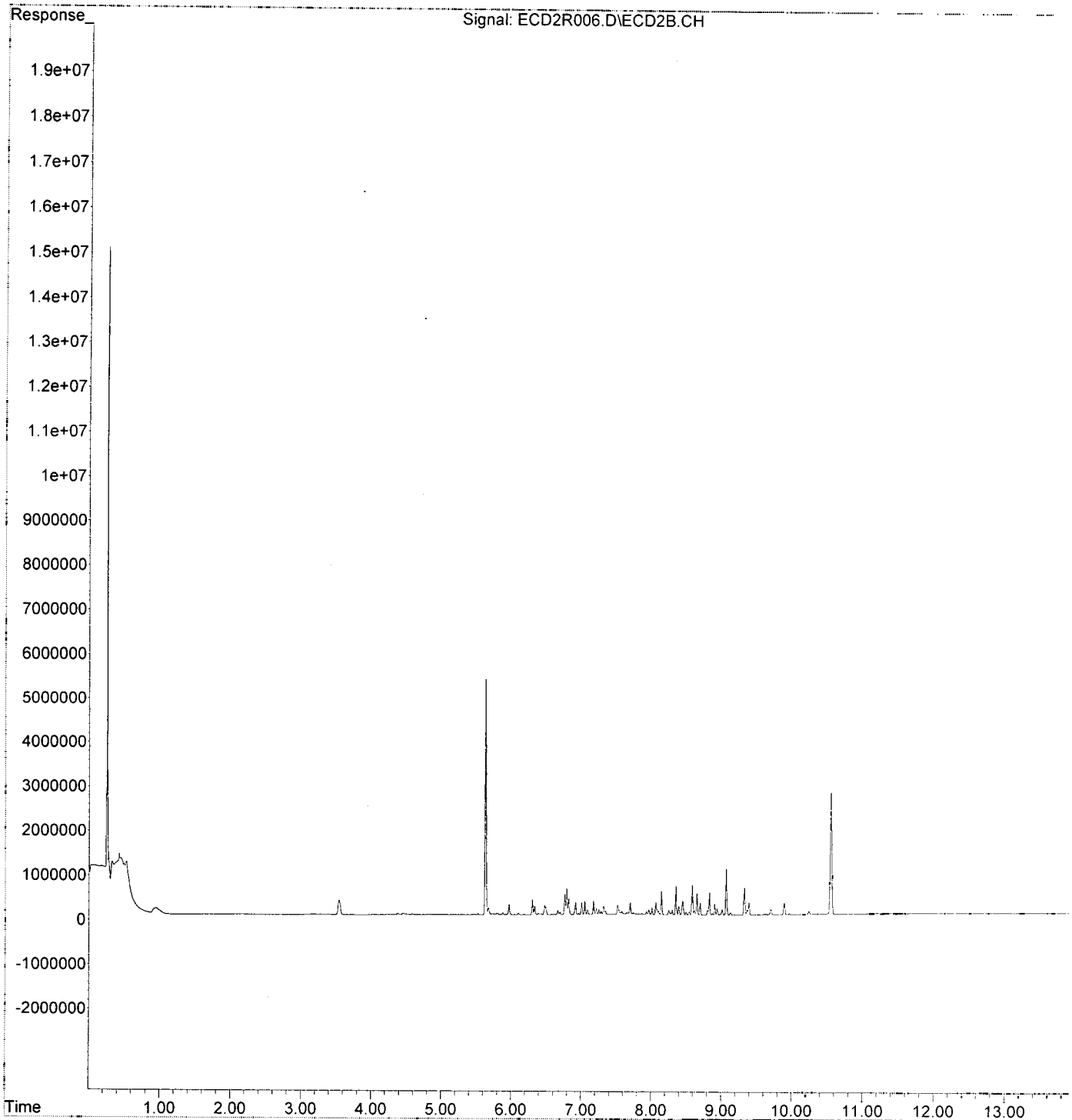
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\0A13050\
Data File : ECD2R006.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 17:50
Operator : MJB / KAK
Sample : 0A13050-CAL2
Misc :
ALS Vial : 55 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:01 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R007.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:08
 Operator : MJB / KAK
 Sample : 0A13050-CAL3
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:01:21 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.628	11084215	42.253 ng/ml
62) S DCBP (S)	10.550	5396453	36.763 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	639728	72.016 ng/ml
3) Aroclor 1016 (2)	6.790	1142660	69.831 ng/ml
4) Aroclor 1016 (3)	6.917	536991	72.903 ng/ml
5) Aroclor 1016 (4)	7.003	519409	69.651 ng/ml
6) Aroclor 1016 (5)	7.048	569313	68.999 ng/ml
7) Aroclor 1016 (6)	7.174	588135	71.453 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.143	1060465	67.191 ng/ml
42) Aroclor 1260 (2)	8.351	1321460	67.572 ng/ml
43) Aroclor 1260 (3)	8.582	1327338	65.831 ng/ml
44) Aroclor 1260 (4)	9.066	2051063	66.278 ng/ml
45) Aroclor 1260 (5)	9.325	1220407	68.190 ng/ml
46) Aroclor 1260 (6)	9.890	478851	69.413 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R007.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:08
 Operator : MJB / KAK
 Sample : 0A13050-CAL3
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:01:21 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

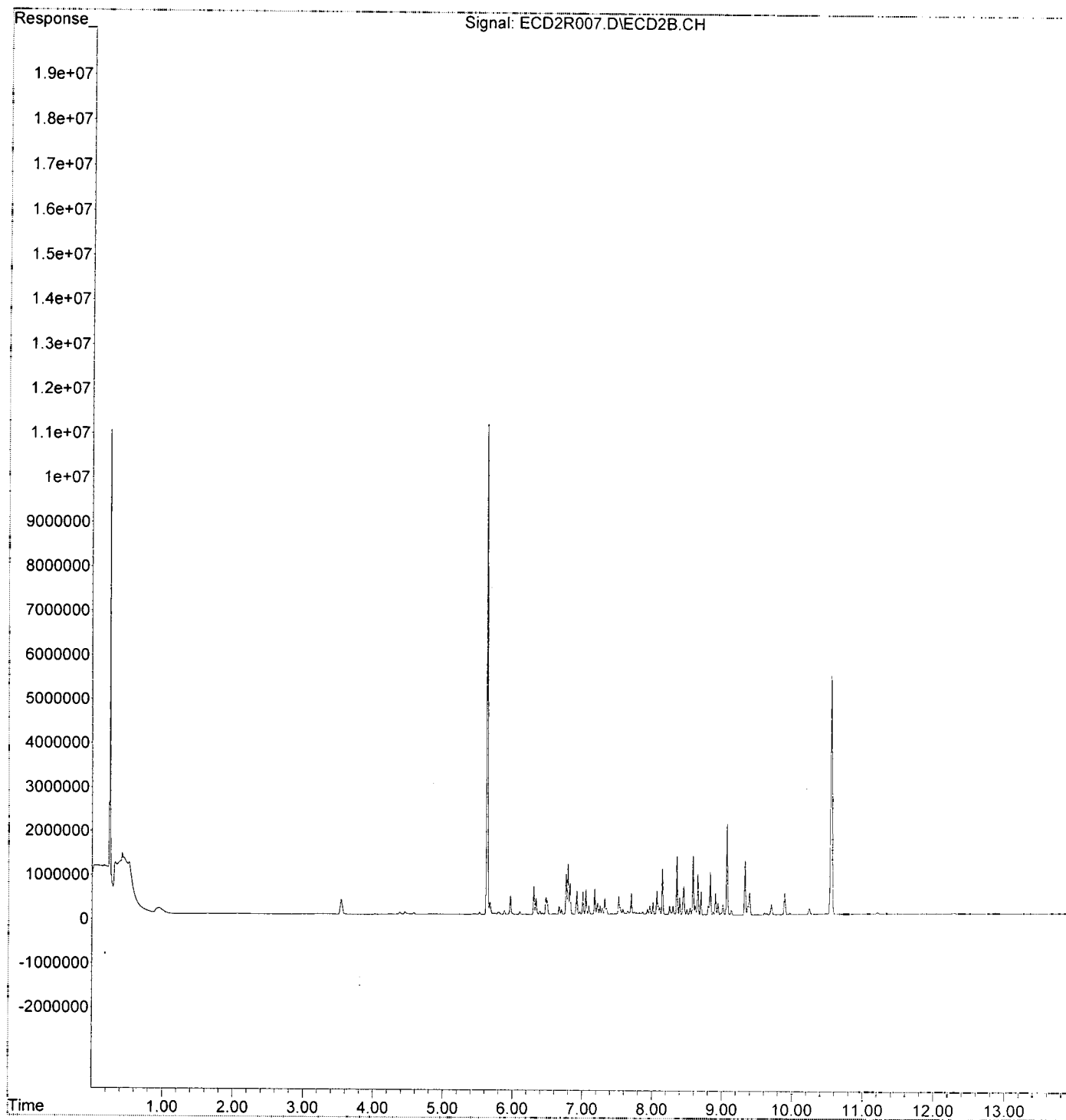
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R007.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:08
Operator : MJB / KAK
Sample : 0A13050-CAL3
Misc :
ALS Vial : 56 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:21 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R008.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:25
 Operator : MJB / KAK
 Sample : 0A13050-CAL4
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:01:42 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/14/20

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.629	22681880	86.463 ng/ml
62) S DCBP (S)	10.551	10891716	74.199 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.301	1190843	134.057 ng/ml
3) Aroclor 1016 (2)	6.790	2334544	142.670 ng/ml
4) Aroclor 1016 (3)	6.917	1067264	144.894 ng/ml
5) Aroclor 1016 (4)	7.004	981904	131.670 ng/ml
6) Aroclor 1016 (5)	7.049	1076394	130.455 ng/ml
7) Aroclor 1016 (6)	7.174	1160064	140.937 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	2093221	132.628 ng/ml
42) Aroclor 1260 (2)	8.351	2511397	128.304 ng/ml
43) Aroclor 1260 (3)	8.582	2744238	136.311 ng/ml
44) Aroclor 1260 (4)	9.066	4251874	137.396 ng/ml
45) Aroclor 1260 (5)	9.325	2471890	128.116 ng/ml
46) Aroclor 1260 (6)	9.891	1008936	146.253 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R008.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:25
 Operator : MJB / KAK
 Sample : 0A13050-CAL4
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:01:42 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

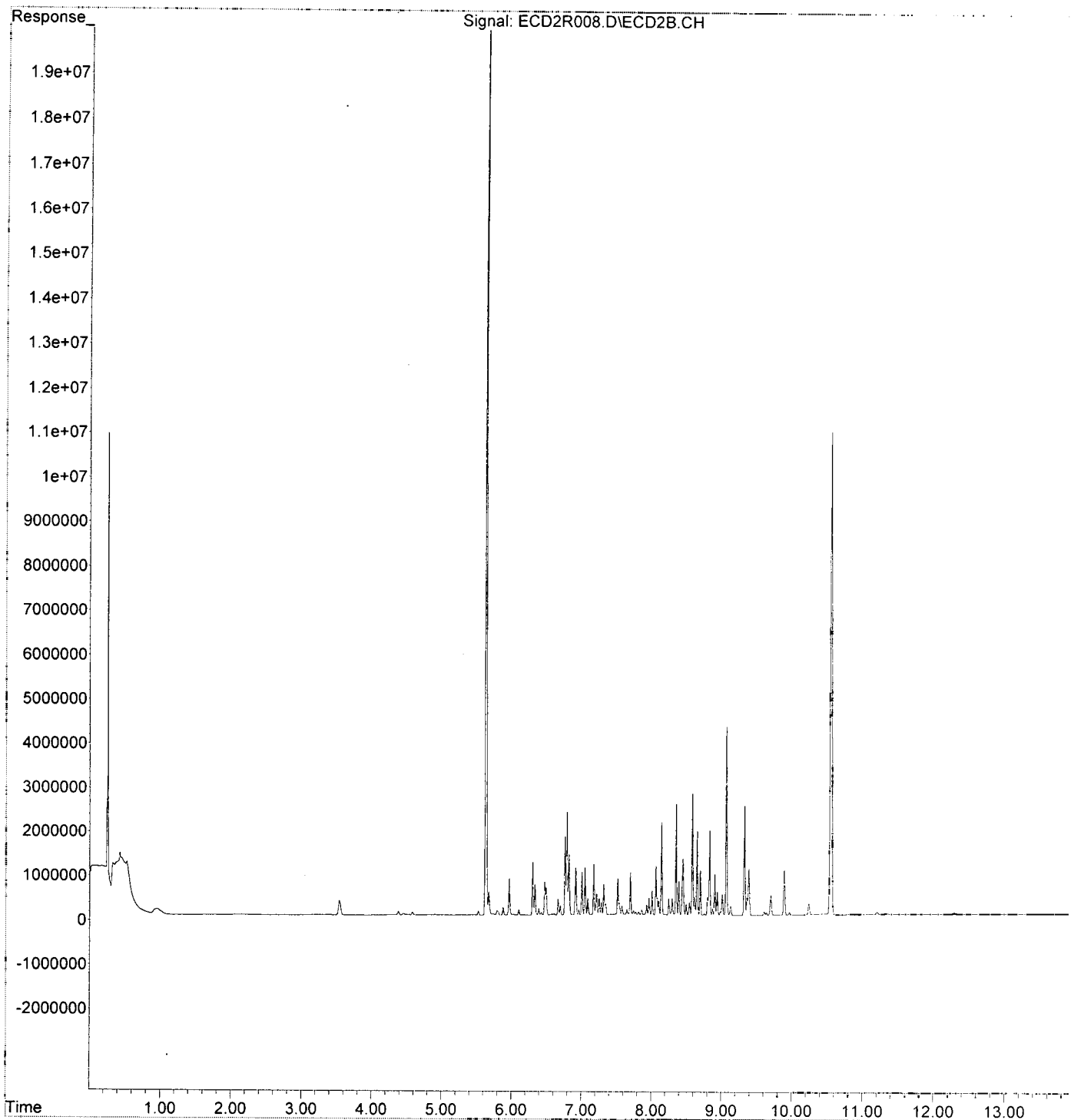
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R008.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:25
Operator : MJB / KAK
Sample : 0A13050-CAL4
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:01:42 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R009.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:43
 Operator : MJB / KAK
 Sample : 0A13050-CAL5
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 08:59:57 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Handwritten signature and date: 1/14/20

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.629	53881075	205.393 ng/ml
62) S DCBP (S)	10.552	25218318	171.798 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	2835860	319.242 ng/ml
3) Aroclor 1016 (2)	6.790	5484312	335.160 ng/ml
4) Aroclor 1016 (3)	6.917	2538905	344.687 ng/ml
5) Aroclor 1016 (4)	7.003	2203390	295.467 ng/ml
6) Aroclor 1016 (5)	7.048	2536989	307.474 ng/ml
7) Aroclor 1016 (6)	7.174	2573883	312.703 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	5080914	321.926 ng/ml
42) Aroclor 1260 (2)	8.351	6152313	314.315 ng/ml
43) Aroclor 1260 (3)	8.583	6540031	324.855 ng/ml
44) Aroclor 1260 (4)	9.066	10496732	339.193 ng/ml
45) Aroclor 1260 (5)	9.325	6070844	309.206 ng/ml
46) Aroclor 1260 (6)	9.891	2392226	346.773 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R009.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 18:43
 Operator : MJB / KAK
 Sample : 0A13050-CAL5
 Misc :
 ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 08:59:57 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

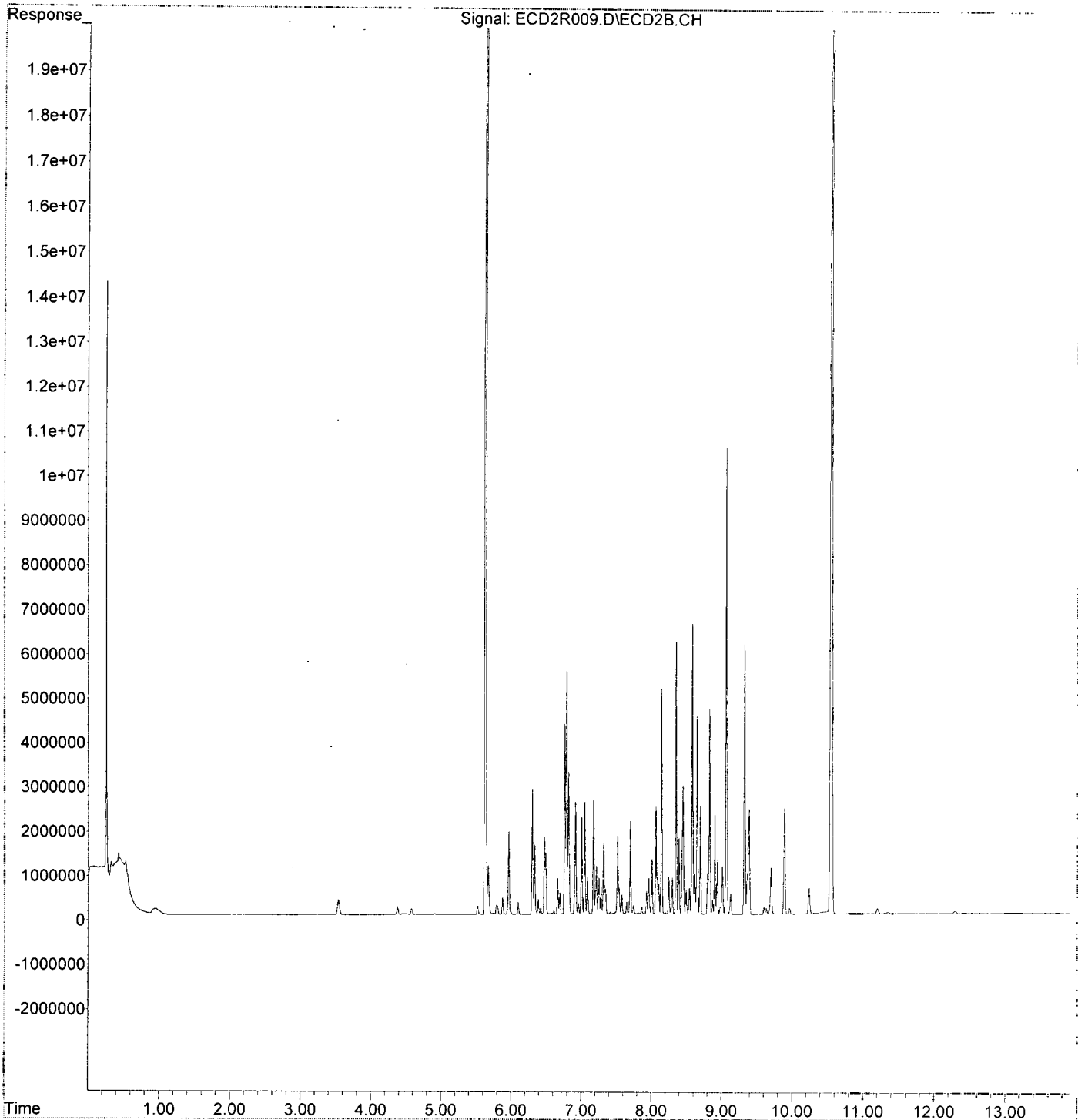
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R009.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 18:43
Operator : MJB / KAK
Sample : 0A13050-CAL5
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 08:59:57 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R010.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:01
 Operator : MJB / KAK
 Sample : 0A13050-CAL6
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:02:03 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.631	124870409	476.002 ng/ml
62) S DCBP (S)	10.551	58595711	399.179 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	5624087	633.122 ng/ml
3) Aroclor 1016 (2)	6.790	11025443	673.792 ng/ml
4) Aroclor 1016 (3)	6.917	5145954	698.624 ng/ml
5) Aroclor 1016 (4)	7.004	4338878	581.829 ng/ml
6) Aroclor 1016 (5)	7.048	5224293	633.166 ng/ml
7) Aroclor 1016 (6)	7.173	5149713	625.642 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.143	10123087	641.397 ng/ml
42) Aroclor 1260 (2)	8.350	12298764	628.330 ng/ml
43) Aroclor 1260 (3)	8.582	12961672	643.829 ng/ml
44) Aroclor 1260 (4)	9.066	21886590	707.247 ng/ml
45) Aroclor 1260 (5)	9.325	12074358	674.651 ng/ml
46) Aroclor 1260 (6)	9.890	4594659	666.033 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R010.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:01
 Operator : MJB / KAK
 Sample : 0A13050-CAL6
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:02:03 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

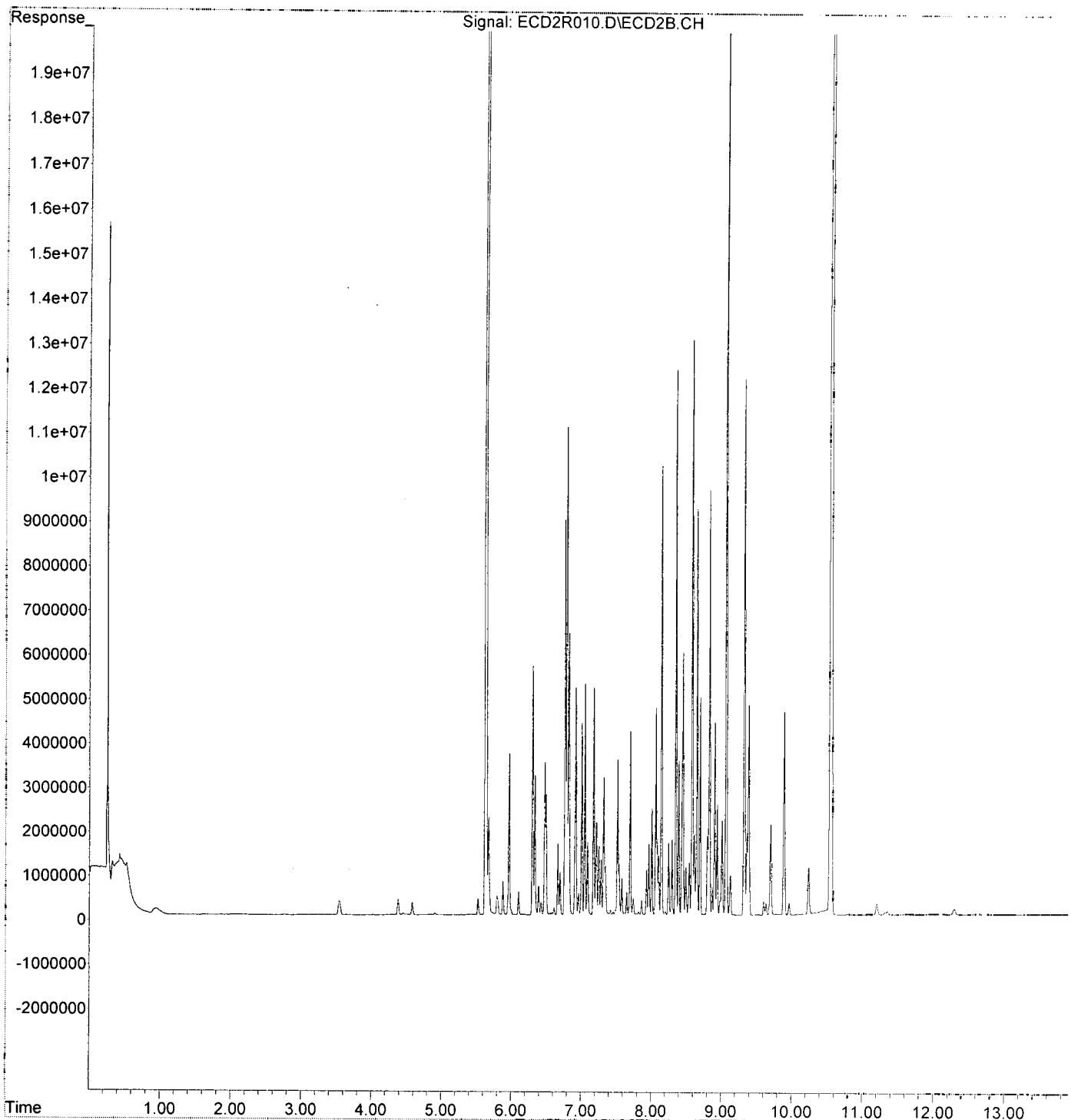
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R010.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:01
Operator : MJB / KAK
Sample : 0A13050-CAL6
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:03 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R011.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:18
 Operator : MJB / KAK
 Sample : 0A13050-CAL7
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:02:23 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	5.633	194842413	742.733 ng/ml
62) S DCBP (S)	10.553	101081415	688.610 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	6.300	8229290	926.399 ng/ml
3) Aroclor 1016 (2)	6.791	15844863	968.319 ng/ml
4) Aroclor 1016 (3)	6.917	7443643	1010.563 ng/ml
5) Aroclor 1016 (4)	7.004	6442401	865.904 ng/ml
6) Aroclor 1016 (5)	7.049	7076827	857.687 ng/ml
7) Aroclor 1016 (6)	7.174	7407214	899.907 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D. ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D. ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D. ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D. ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D. ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D. ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D. ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D. ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D. ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D. ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D. ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D. ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D. ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D. ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D. ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D. ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D. ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D. ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D. ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D. ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D. ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D. ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D. ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D. ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D. ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D. ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D. ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	8.144	14548054	921.762 ng/ml
42) Aroclor 1260 (2)	8.351	17676726	903.084 ng/ml
43) Aroclor 1260 (3)	8.583	18285536	908.274 ng/ml
44) Aroclor 1260 (4)	9.067	32592843	1053.210 ng/ml
45) Aroclor 1260 (5)	9.325	17701773	989.081 ng/ml
46) Aroclor 1260 (6)	9.891	6885880	998.164 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R011.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 19:18
 Operator : MJB / KAK
 Sample : 0A13050-CAL7
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:02:23 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Fri Oct 25 14:23:20 2019
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

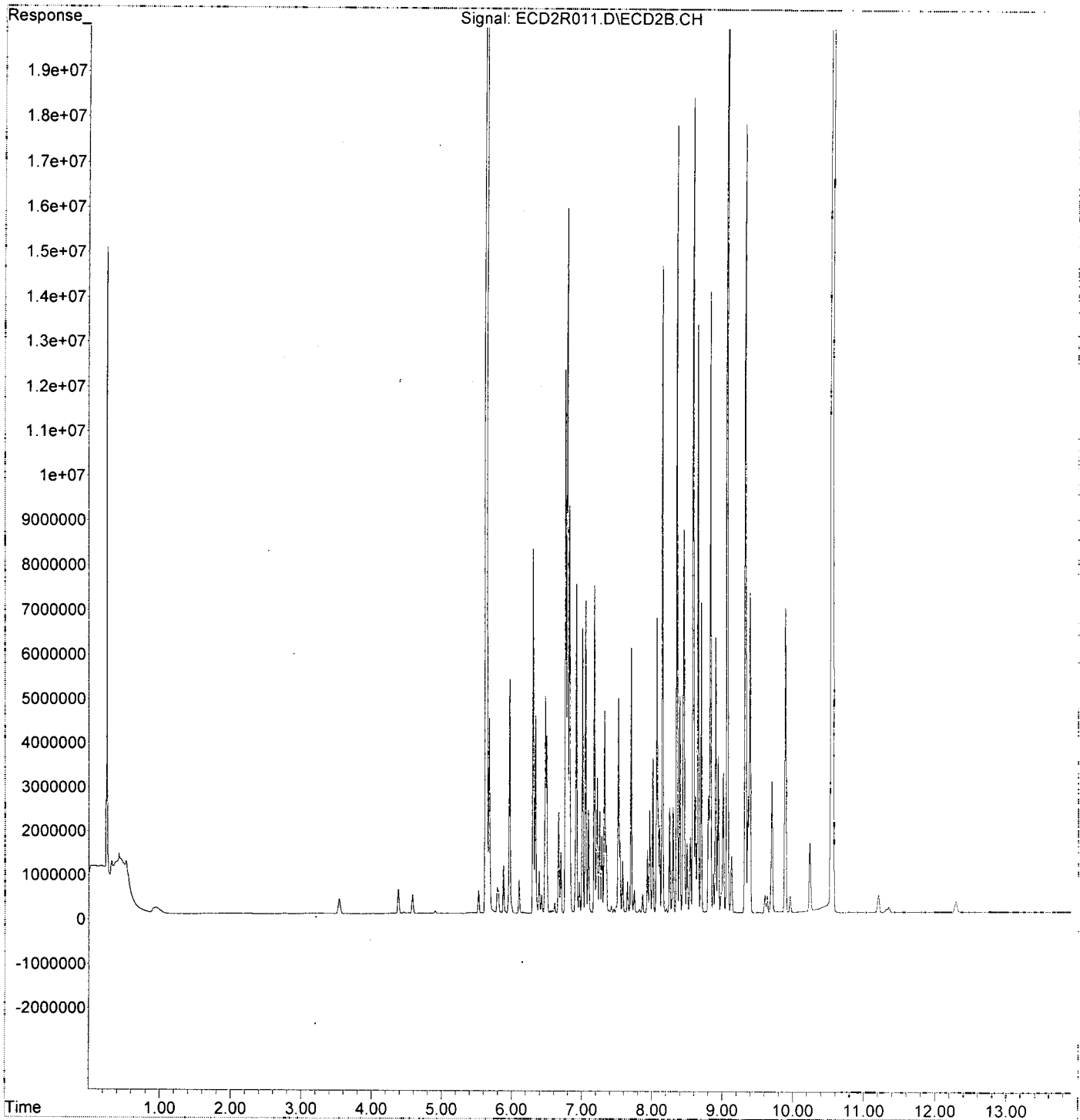
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R011.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 19:18
Operator : MJB / KAK
Sample : 0A13050-CAL7
Misc :
ALS Vial : 60 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:02:23 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Fri Oct 25 14:23:20 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R014.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:11
 Operator : MJB / KAK
 Sample : 0A13050-CAL8
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:08:11 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:08:06 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.806	868760	405.233	ng/ml
10) Aroclor 1221 (2)	5.878	858489	392.721	ng/ml
11) Aroclor 1221 (3)	5.965	2853506	403.334	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Handwritten signature
 1/14/20

Data Path : K:\DATA\0A13050\
 Data File : ECD2R014.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:11
 Operator : MJB / KAK
 Sample : 0A13050-CAL8
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:08:11 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:08:06 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

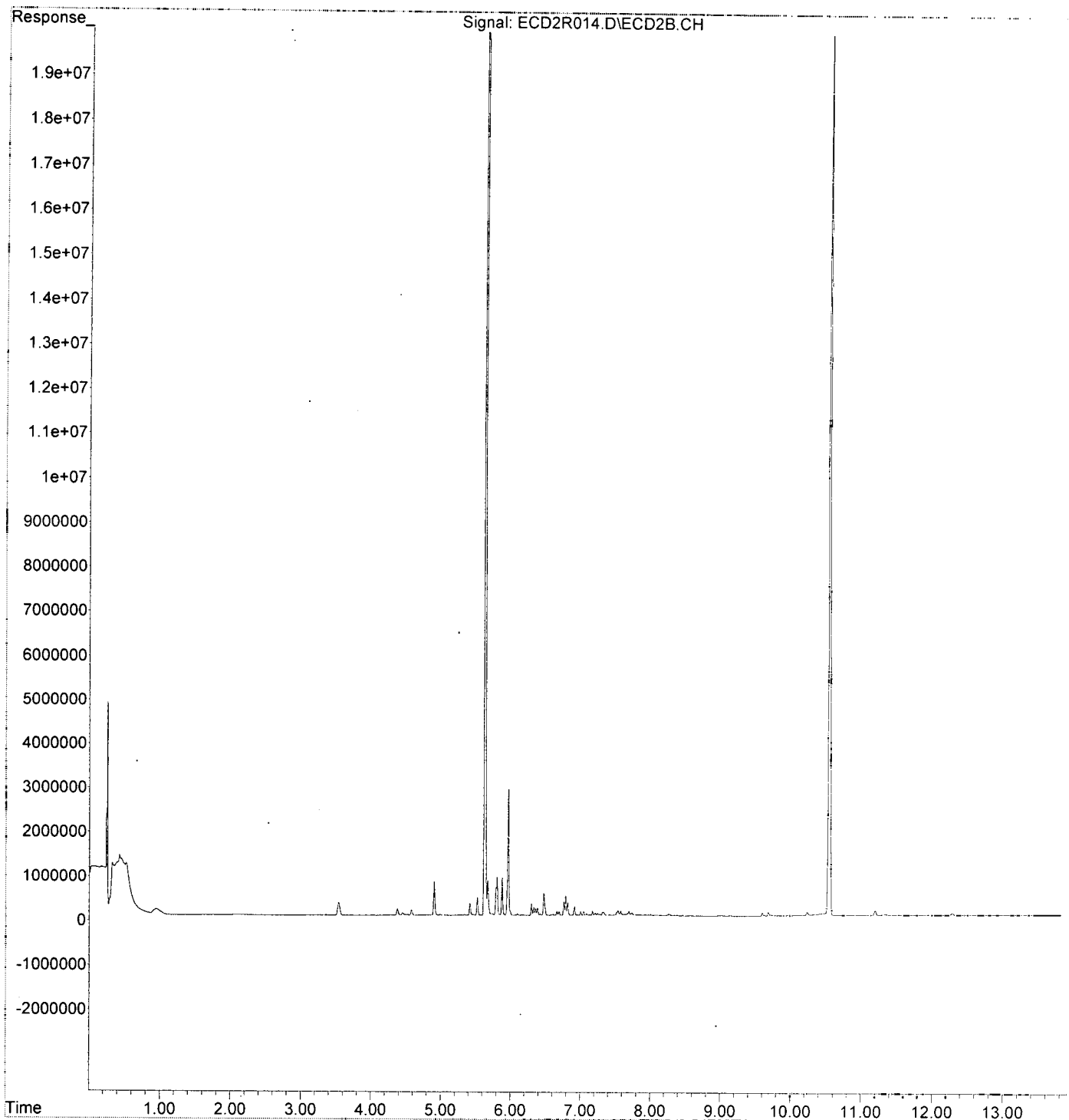
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/ml
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/ml
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/ml
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/ml
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/ml
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/ml
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R014.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:11
Operator : MJB / KAK
Sample : 0A13050-CAL8
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:08:11 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:08:06 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R015.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:29
 Operator : MJB / KAK
 Sample : 0A13050-CAL9
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:09:55 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:09:49 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.963	2284999	399.149	ng/ml
14) Aroclor 1232 (2)	6.298	1301366	374.360	ng/ml
15) Aroclor 1232 (3)	6.789	2445980	377.801	ng/ml
16) Aroclor 1232 (4)	7.002	845919	354.297	ng/ml
17) Aroclor 1232 (5)	7.047	1040422	380.779	ng/ml
18) Aroclor 1232 (6)	7.172	1084837	365.755	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Handwritten signature and date: 1/14/20

Data Path : K:\DATA\0A13050\
 Data File : ECD2R015.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:29
 Operator : MJB / KAK
 Sample : 0A13050-CAL9
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:09:55 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:09:49 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

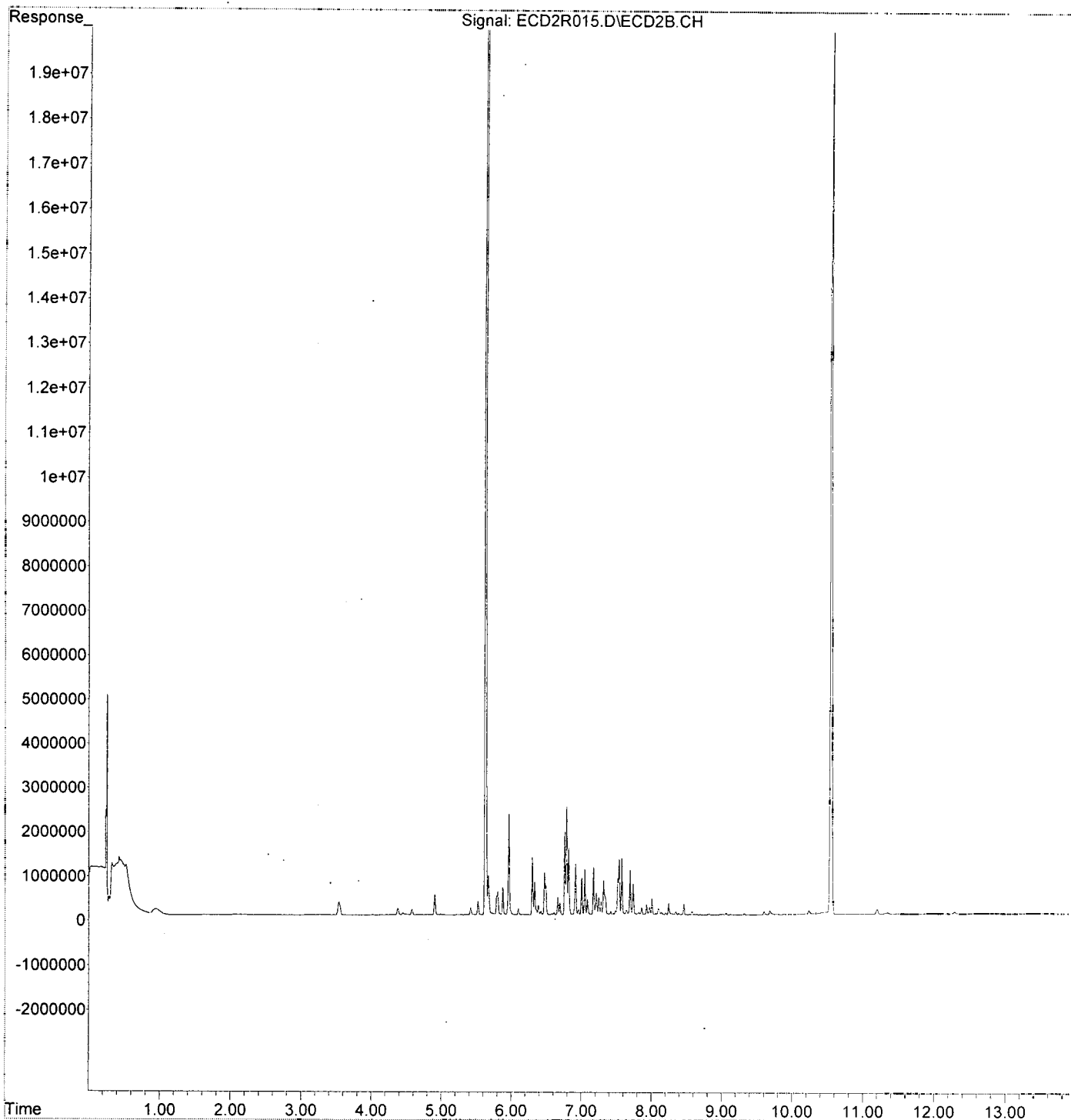
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R015.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 20:29
Operator : MJB / KAK
Sample : 0A13050-CAL9
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:09:55 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:09:49 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R016.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:46
 Operator : MJB / KAK
 Sample : 0A13050-CALA
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:11:35 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:11:30 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	6.299	2273165	346.971	ng/ml
21) Aroclor 1242 (2)	6.788	4411225	372.830	ng/ml
22) Aroclor 1242 (3)	6.916	1915085	362.527	ng/ml
23) Aroclor 1242 (4)	7.003	1651796	330.840	ng/ml
24) Aroclor 1242 (5)	7.047	1996964	343.471	ng/ml
25) Aroclor 1242 (6)	7.172	2085406	326.623	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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 1/14/20

Data Path : K:\DATA\0A13050\
 Data File : ECD2R016.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:46
 Operator : MJB / KAK
 Sample : 0A13050-CALA
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:11:35 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:11:30 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

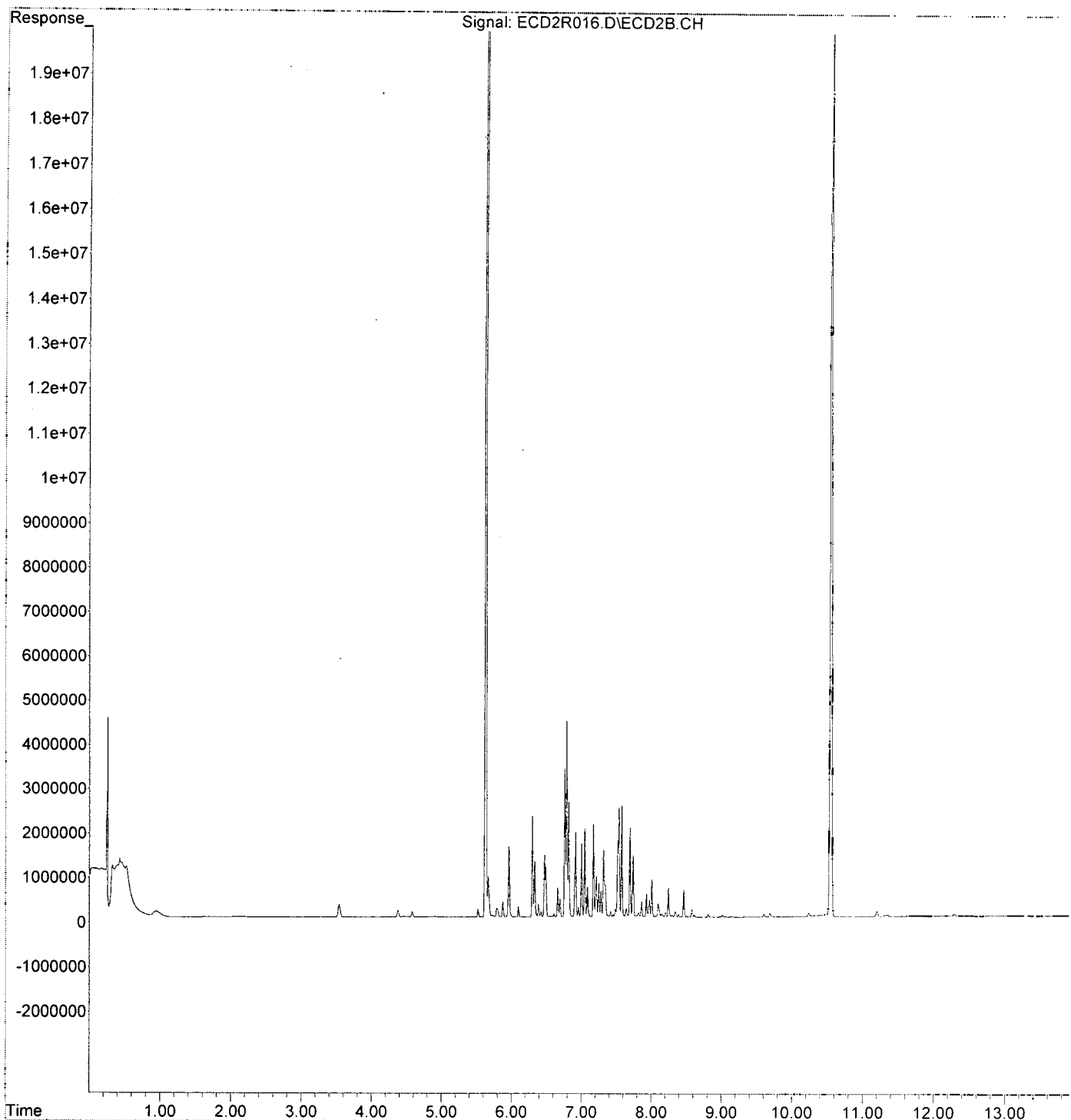
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
 Data File : ECD2R016.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 20:46
 Operator : MJB / KAK
 Sample : 0A13050-CALA
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:11:35 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:11:30 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R017.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:04
 Operator : MJB / KAK
 Sample : 0A13050-CALB
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:13:19 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:13:13 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.761	2581015	345.871	ng/ml
28) Aroclor 1248 (2)	7.003	3179675	340.576	ng/ml
29) Aroclor 1248 (3)	7.047	2967887	338.430	ng/ml
30) Aroclor 1248 (4)	7.172	3647754	348.382	ng/ml
31) Aroclor 1248 (5)	7.538	4450876	344.149	ng/ml
32) Aroclor 1248 (6)	7.695	4070608	345.227	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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 1/14/20

Data Path : K:\DATA\0A13050\
 Data File : ECD2R017.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:04
 Operator : MJB / KAK
 Sample : 0A13050-CALB
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:13:19 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:13:13 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

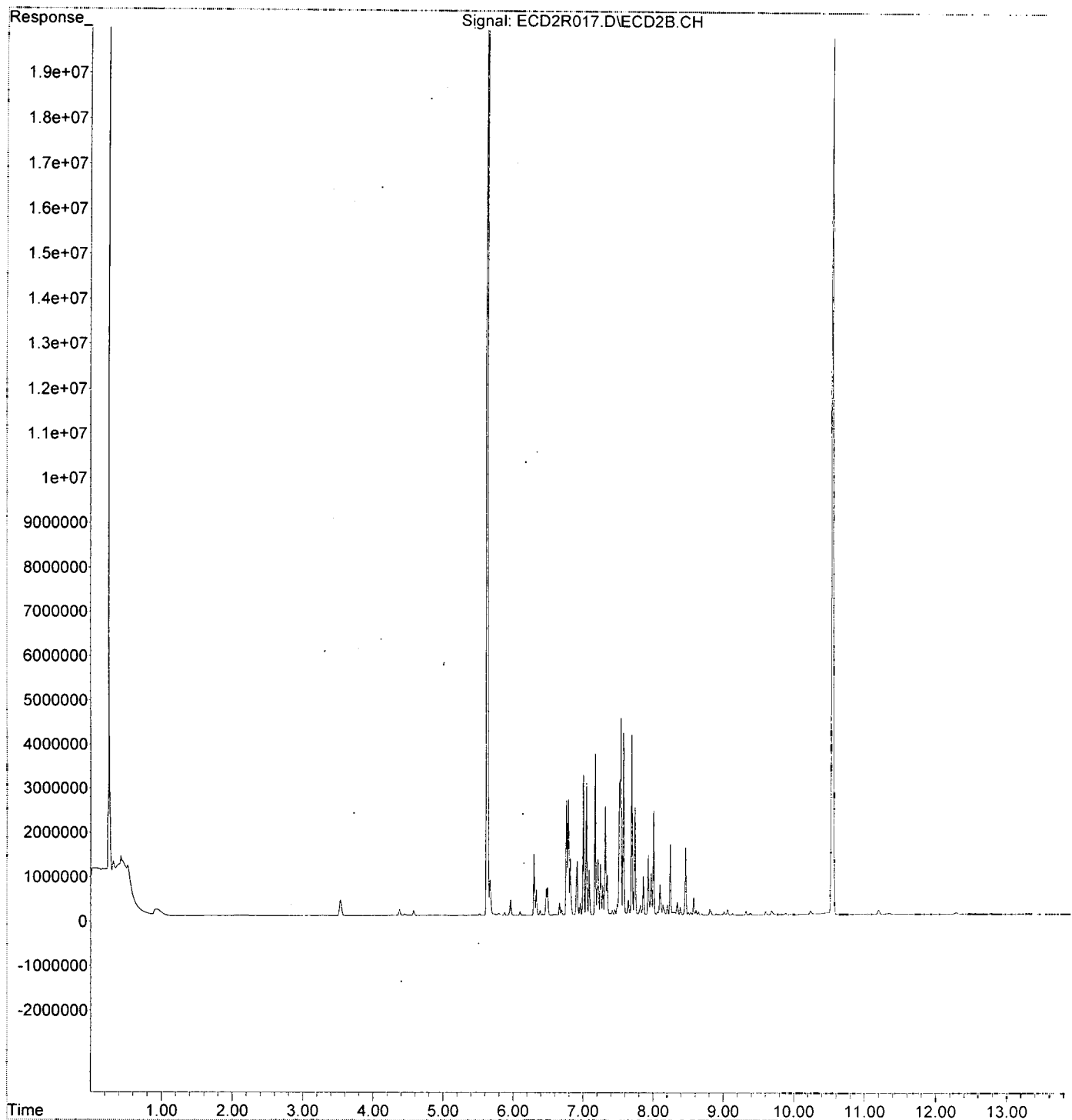
	Compound	R.T.	Response	Conc	Units
48)	Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49)	Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50)	Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51)	Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52)	Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53)	Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54)	Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55)	Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56)	Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57)	Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58)	Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59)	Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60)	Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61)	Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R017.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:04
Operator : MJB / KAK
Sample : 0A13050-CALB
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:13:19 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:13:13 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R018.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:22
 Operator : MJB / KAK
 Sample : 0A13050-CALC
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:15:06 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:14:59 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units

System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	7.515	4236924	327.807	ng/ml
35) Aroclor 1254 (2)	7.696	6954916	343.494	ng/ml
36) Aroclor 1254 (3)	8.006	7587169	354.082	ng/ml
37) Aroclor 1254 (4)	8.246	5458243	330.470	ng/ml
38) Aroclor 1254 (5)	8.580	5624331	358.394	ng/ml
39) Aroclor 1254 (6)	8.810	1763591	360.642	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

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 1/14/20

Data Path : K:\DATA\0A13050\
 Data File : ECD2R018.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:22
 Operator : MJB / KAK
 Sample : 0A13050-CALC
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:15:06 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:14:59 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

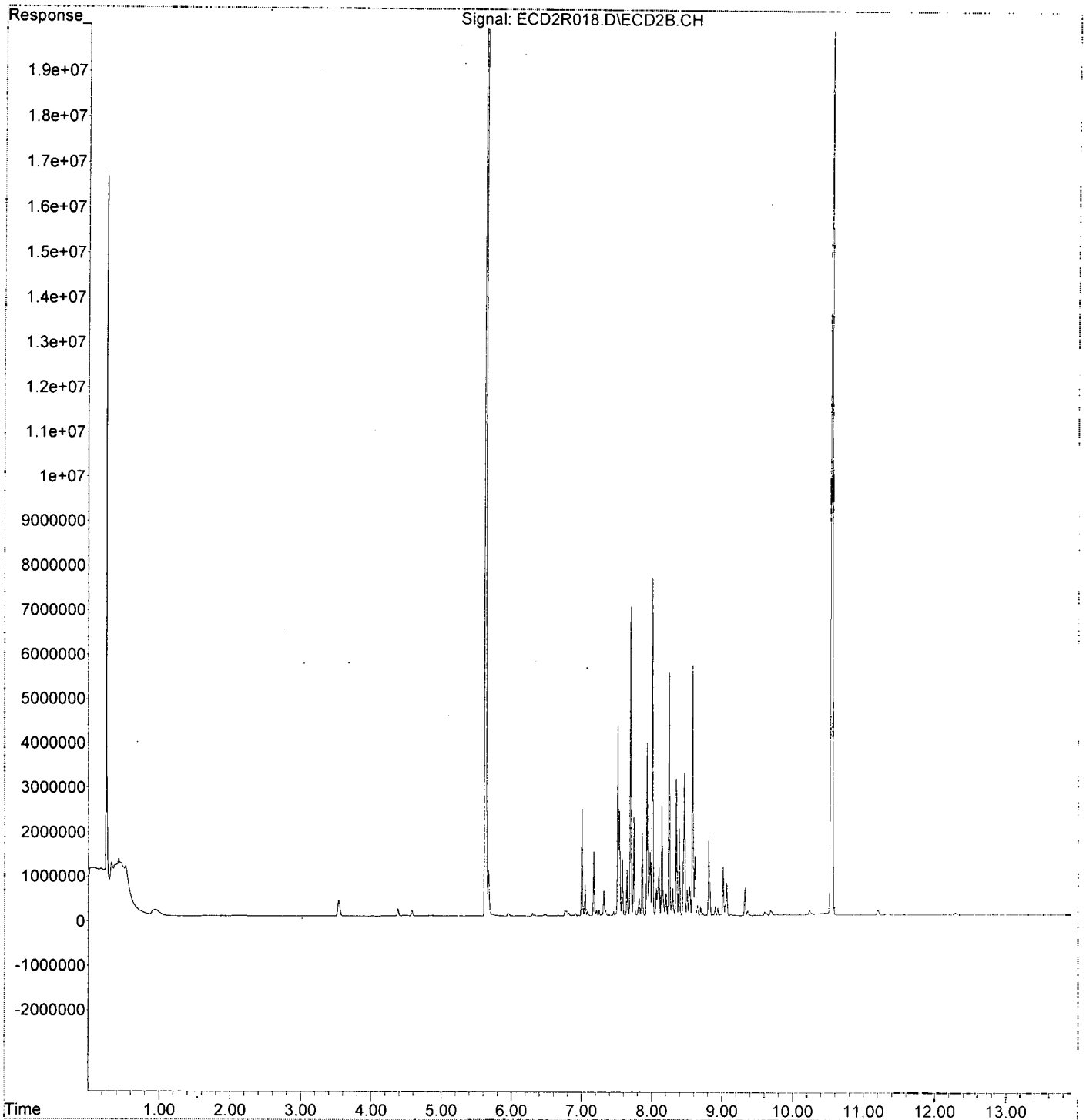
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/mld
55) Aroclor 1268 (1)	0.000	0	N.D.	ng/mld
56) Aroclor 1268 (2)	0.000	0	N.D.	ng/mld
57) Aroclor 1268 (3)	0.000	0	N.D.	ng/mld
58) Aroclor 1268 (4)	0.000	0	N.D.	ng/mld
59) Aroclor 1268 (5)	0.000	0	N.D.	ng/mld
60) Aroclor 1268 (6)	0.000	0	N.D.	ng/mld
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/mld

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R018.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:22
Operator : MJB / KAK
Sample : 0A13050-CALC
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:15:06 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:14:59 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R019.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:39
 Operator : MJB / KAK
 Sample : 0A13050-CALD
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:29:52 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:29:46 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/14/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R019.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:39
 Operator : MJB / KAK
 Sample : 0A13050-CALD
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:29:52 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:29:46 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	8.349	5285848	349.281 ng/ml
49) Aroclor 1262 (2)	8.650	7638753	361.098 ng/ml
50) Aroclor 1262 (3)	8.828	6402101	366.499 ng/ml
51) Aroclor 1262 (4)	9.065	13762305	384.322 ng/ml
52) Aroclor 1262 (5)	9.324	8209776	373.769 ng/ml
53) Aroclor 1262 (6)	9.888	3600266	371.141 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	0.000	0	N.D. ng/ml
56) Aroclor 1268 (2)	0.000	0	N.D. ng/ml
57) Aroclor 1268 (3)	0.000	0	N.D. ng/ml
58) Aroclor 1268 (4)	0.000	0	N.D. ng/ml
59) Aroclor 1268 (5)	0.000	0	N.D. ng/ml
60) Aroclor 1268 (6)	0.000	0	N.D. ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

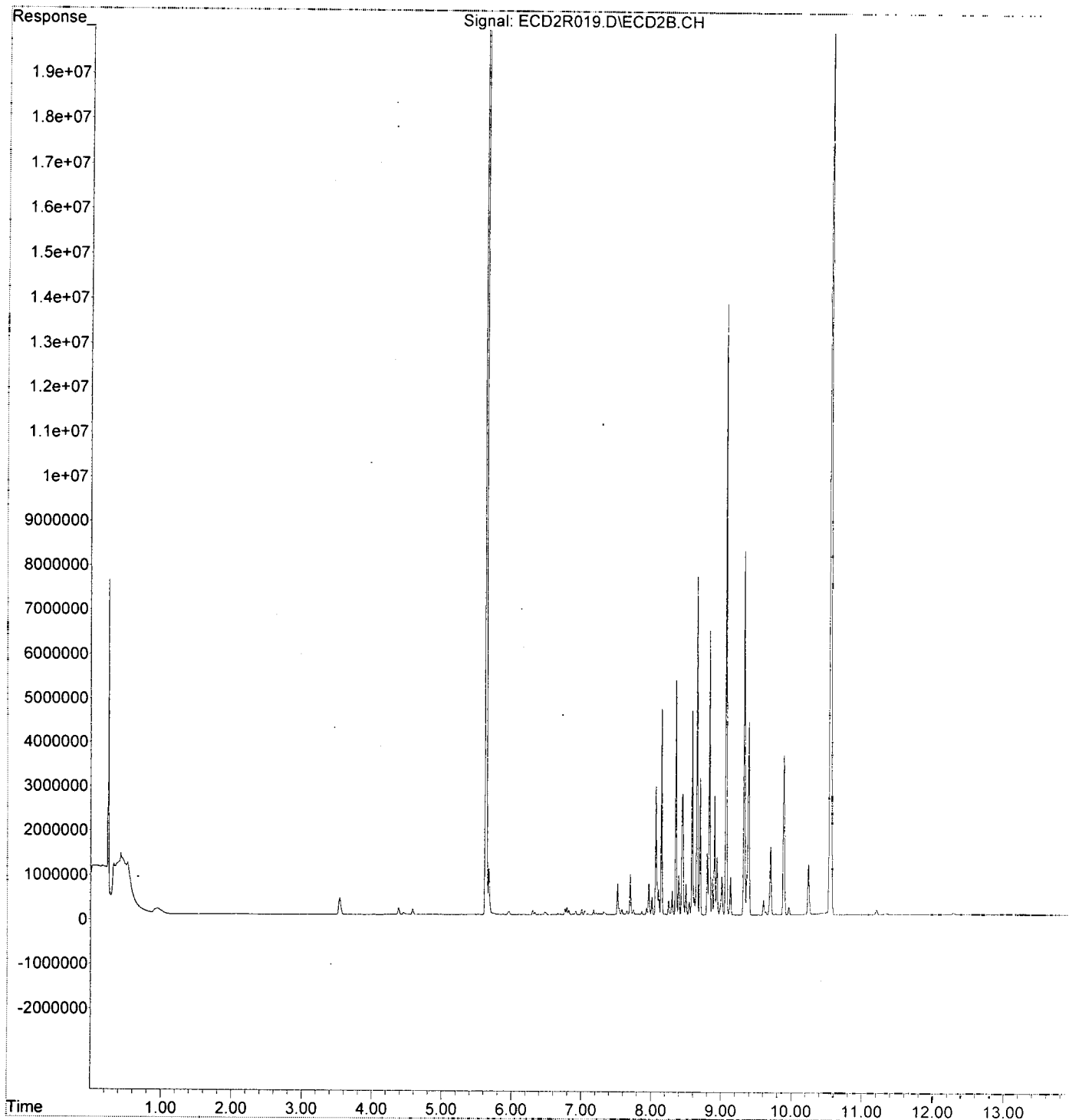
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 1/14/20

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R019.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:39
Operator : MJB / KAK
Sample : 0A13050-CALD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:29:52 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:29:46 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A13050\
 Data File : ECD2R020.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:57
 Operator : MJB / KAK
 Sample : 0A13050-CALE
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:31:53 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:31:47 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/14/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	0.000	0	N.D.	ng/ml
3) Aroclor 1016 (2)	0.000	0	N.D.	ng/ml
4) Aroclor 1016 (3)	0.000	0	N.D.	ng/ml
5) Aroclor 1016 (4)	0.000	0	N.D.	ng/ml
6) Aroclor 1016 (5)	0.000	0	N.D.	ng/ml
7) Aroclor 1016 (6)	0.000	0	N.D.	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	0.000	0	N.D.	ng/ml
10) Aroclor 1221 (2)	0.000	0	N.D.	ng/ml
11) Aroclor 1221 (3)	0.000	0	N.D.	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	0.000	0	N.D.	ng/ml
14) Aroclor 1232 (2)	0.000	0	N.D.	ng/ml
15) Aroclor 1232 (3)	0.000	0	N.D.	ng/ml
16) Aroclor 1232 (4)	0.000	0	N.D.	ng/ml
17) Aroclor 1232 (5)	0.000	0	N.D.	ng/ml
18) Aroclor 1232 (6)	0.000	0	N.D.	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	0.000	0	N.D.	ng/ml
21) Aroclor 1242 (2)	0.000	0	N.D.	ng/ml
22) Aroclor 1242 (3)	0.000	0	N.D.	ng/ml
23) Aroclor 1242 (4)	0.000	0	N.D.	ng/ml
24) Aroclor 1242 (5)	0.000	0	N.D.	ng/ml
25) Aroclor 1242 (6)	0.000	0	N.D.	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	0.000	0	N.D.	ng/ml
28) Aroclor 1248 (2)	0.000	0	N.D.	ng/ml
29) Aroclor 1248 (3)	0.000	0	N.D.	ng/ml
30) Aroclor 1248 (4)	0.000	0	N.D.	ng/ml
31) Aroclor 1248 (5)	0.000	0	N.D.	ng/ml
32) Aroclor 1248 (6)	0.000	0	N.D.	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	0.000	0	N.D.	ng/ml
35) Aroclor 1254 (2)	0.000	0	N.D.	ng/ml
36) Aroclor 1254 (3)	0.000	0	N.D.	ng/ml
37) Aroclor 1254 (4)	0.000	0	N.D.	ng/ml
38) Aroclor 1254 (5)	0.000	0	N.D.	ng/ml
39) Aroclor 1254 (6)	0.000	0	N.D.	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	0.000	0	N.D.	ng/ml
42) Aroclor 1260 (2)	0.000	0	N.D.	ng/ml
43) Aroclor 1260 (3)	0.000	0	N.D.	ng/ml
44) Aroclor 1260 (4)	0.000	0	N.D.	ng/ml
45) Aroclor 1260 (5)	0.000	0	N.D.	ng/ml
46) Aroclor 1260 (6)	0.000	0	N.D.	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Data Path : K:\DATA\0A13050\
 Data File : ECD2R020.D
 Signal(s) : ECD2B.CH
 Acq On : 13 Jan 2020 21:57
 Operator : MJB / KAK
 Sample : 0A13050-CALE
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
 Quant Time: Jan 14 09:31:53 2020
 Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
 Quant Title : PCB Data Analysis
 QLast Update : Tue Jan 14 09:31:47 2020
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.867	3116077	333.865	ng/ml
56) Aroclor 1268 (2)	9.324	13883261	353.838	ng/ml
57) Aroclor 1268 (3)	9.390	11258146	357.094	ng/ml
58) Aroclor 1268 (4)	9.601	9626631	355.419	ng/ml
59) Aroclor 1268 (5)	9.888	3911591	369.151	ng/ml
60) Aroclor 1268 (6)	10.237	25307518	744.410	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

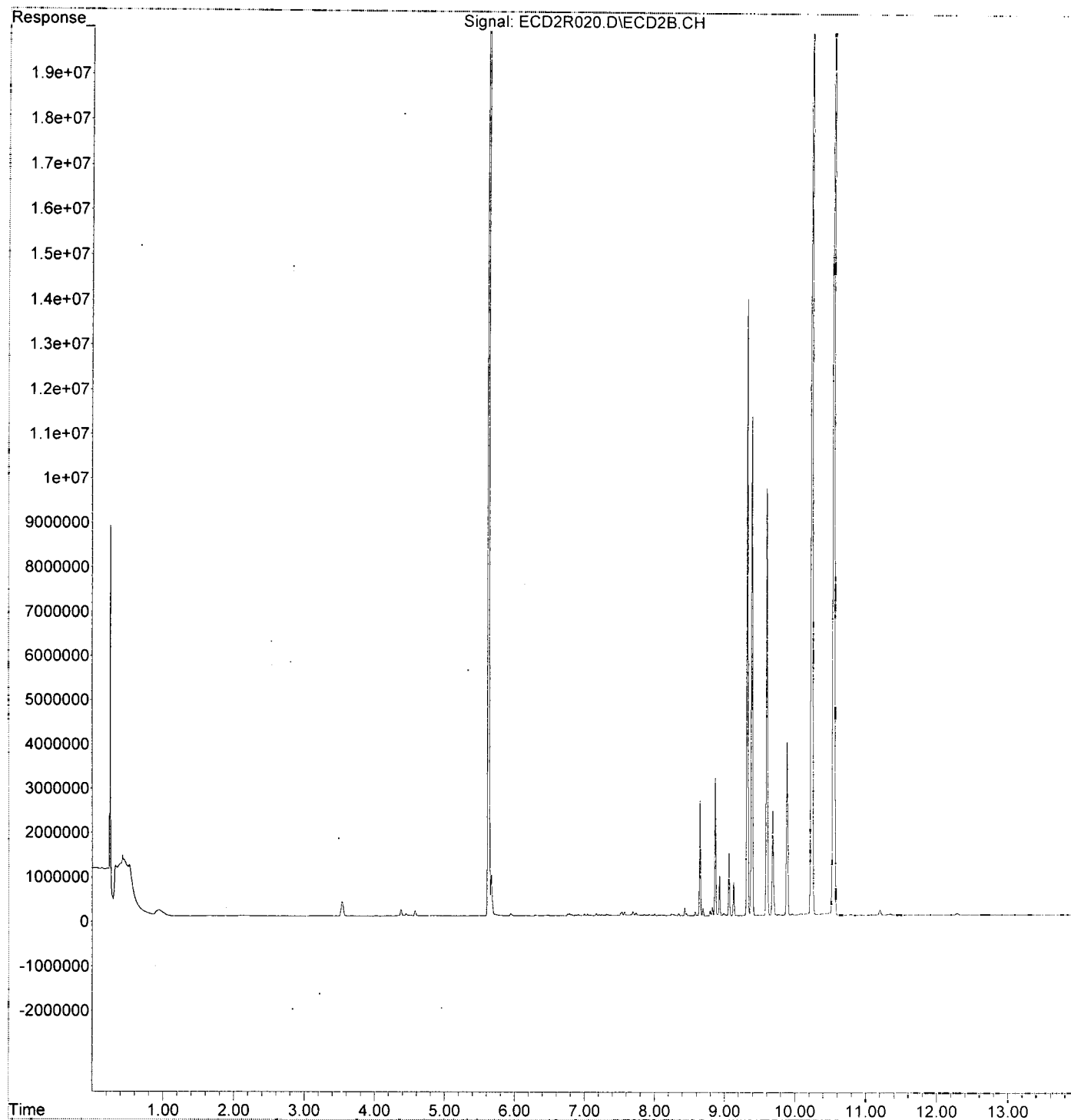
[Handwritten signature]
 1/14/20

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\0A13050\
Data File : ECD2R020.D
Signal(s) : ECD2B.CH
Acq On : 13 Jan 2020 21:57
Operator : MJB / KAK
Sample : 0A13050-CALE
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: events.e
Quant Time: Jan 14 09:31:53 2020
Quant Method : L:\Methods\RECD2_QUANTPCB_200113.M
Quant Title : PCB Data Analysis
QLast Update : Tue Jan 14 09:31:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B
Benchsheet & Analysis Sequence Data**

Batch 0020430
Sequence 0B25044 (A0B0288-01RE1)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020430 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	2-8	>11
	0020430-BLK1	QC	02/13/20 11:22	11	10				100					
	0020430-BS1	QC	02/13/20 11:22	10	10	A20A310		100	100					
	A0B0288-01RE1	A 8081B 2,4+4,4-DDx Only (+Add)	02/13/20 11:22	10.27	10				100	PDI-077SC-A-02-03-191014	MDL. Use Custom Spike.			
	0020430-DUP1	QC	02/13/20 11:25	10.37	10		A0B0288-01RE1		100					
	0020430-MS1	QC	02/13/20 11:25	10.27	10	A20A310	A0B0288-01RE1	100	100					

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19I263	03/18/20	DCM CHEM PROD. 194934	A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A20B060	07/17/20	8082 PCB Surrogate Spike
A20A032	06/30/23	n-Hexane Lot# 197051						

From 0020424 on 2/13/2020 by agr

Prepared By: _____ Date: _____
 Reviewed By: MJR Date: 2/26/20



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020430 (Sediment)

Prep Method: EPA 3546/3640A (GPC)

in | Out

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	2-8	>11	
	0020430-BLK1	QC	02/13/20 11:22	11	5 10				100		<i>1 mL</i>	<i>2 mL</i>			
	0020430-BS1	QC	02/13/20 11:22	10	5 10	A20A310		100	100		<i>1 mL</i>	<i>2 mL</i>			
	A0B0288-01RE1	A 8081B 2,4+4,4-DDx Only (+Add)	02/13/20 11:22	10.27	5 10				100	PDI-077SC-A-02-03-191014	MDL. Use Custom Spike. <i>1 mL</i>	<i>2 mL</i>			
	0020430-DUP1	QC	02/13/20 11:25	10.27 10.37	5 10		A0B0288-01RE1		100		<i>1 mL</i>	<i>2 mL</i>			
	0020430-MS1	QC	02/13/20 11:25	10.27 10.27	5 10	A20A310	A0B0288-01RE1	100	100		<i>1 mL</i>	<i>2 mL</i>			

on 02-14-20

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19I263	03/18/20	DCM CHEM PROD. 194934	A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A20B060	07/17/20	8082 PCB Surrogate Spike
A20A032	06/30/23	n-Hexane Lot# 197051						

From 0020424 on 2/13/2020 by agr

agr
Prepared By:
Count

AGJ

Date: 02-13-20
2/13/20
2/14/20

CAS
Reviewed By:

Date: 02/14/2020



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020424 (Sediment)

Prep Method: ~~EPA 3546/3640A (GPC)~~ EPA 3546
cm 02.13.20

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	2-8	>11	
1	0020424-BLK1	QC	02/13/20 11:22	10 11	5 ✓				100						
2	0020424-BSI	QC	02/13/20 11:22	10	5 ✓	A20A310		100	100						
3	A0B0288-01	A 8081B 2,4+4,4-DDx Only (+Add)	02/13/20 11:22	10 10.27	5 ✓				100	PDI-077SC-A-02-03-191014	MDL. Use Custom Spike. <i>m-d</i>				
4	0020424-DUP1	QC	02/13/20 11:25	10 10.37	5 ✓		A0B0288-01		100						
5	0020424-MS1	QC	02/13/20 11:25	10 10.27	5 ✓	A20A310	A0B0288-01	100	100						

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20A310	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A20B060	07/17/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A20A282	07/19/21	Sodium Sulfate Lot # 194865						

Method 3546 digestion time and temperture achieved.

Initial: *cm*

Witness: *CAH 02/13/20*

Prepared By: *cm* Date: *02-13-20*

Reviewed By: _____ Date: _____



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B25044**

Instrument: **DUALECD8**

Date: **02/25/20 11:12**

Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B25044-BKD1	Sediment	QC	QC				
2	0B25044-CCV1	Sediment	QC	QC				A20A019
3	0B25044-CCV2	Sediment	QC	QC				A19K133
4	0B25044-CCB1	Sediment	QC	QC				A19J408
5	0020430-BLK1	Sediment	QC	QC				A20A395
6	0020430-BS1	Sediment	QC	QC		0020430		
7	A0B0288-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/25/20	0020430		
8	0B25044-IBL1	Sediment	QC	QC		0020430		
9	0020430-DUP1	Sediment	QC	QC		0020430		
10	0B25044-IBL2	Sediment	QC	QC				
11	0020430-MS1	Sediment	QC	QC		0020430		
12	0B25044-IBL3	Sediment	QC	QC				
13	0B25044-CCV3	Sediment	QC	QC				A19K134
14	0B25044-CCV4	Sediment	QC	QC				A19J409
15	0B25044-CCB2	Sediment	QC	QC				A20A395
16	A0A0996-01RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
17	A0A0996-06RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
18	A0A0996-02RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
19	0B25044-IBL4	Sediment	QC	QC				
20	A0A0996-03RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
21	0B25044-IBL5	Sediment	QC	QC				
22	A0A0996-04RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
23	0B25044-IBL6	Sediment	QC	QC				
24	A0A0996-05RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	02/13/20	0020205		
25	0B25044-IBL7	Sediment	QC	QC				
26	0B25044-CCV5	Sediment	QC	QC				A19K133
27	0B25044-CCV6	Sediment	QC	QC				A19J408
28	0B25044-CCB3	Sediment	QC	QC				A20A395
29	0B25044-IBL8	Sediment	QC	QC				

Data Entered By: WJ 2/26/20

Comments:

Data Reviewed By: MVF 2/26/20

Pesticide BKD

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B25044 BKD1
Data File: ECD8-02252003.D

First Column Area Counts		Percent Breakdown	
DDE	29937166		
DDD	56771637		
DDT	2843050732	2.96	PASS
Endrin	1533815146	10.99	PASS
Endrin Aldehyde	106683802		
Endrin Ketone	82647394		

Second Column Area Counts		Percent Breakdown	
DDE	29969620		
DDD	50031060		
DDT	2890025294	2.69	PASS
Endrin	1447302219	7.93	PASS
Endrin Aldehyde	61166366		
Endrin Ketone	63480307		

Breakdown must be less than 15% to accept sample data.

*MJB
2/26/20*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 11:59
 Operator : MJB
 Sample : 0B25044-BKD1
 Misc : A20A019
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 25 12:13:36 2020
 Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT6.M
 Quant Title : Pesticides
 QLast Update : Fri Nov 09 13:28:51 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) 4,4'-DDE	7.556	29937166	NoCal	ng/mL
2) Endrin	7.918	1533815146	NoCal	ng/mL
3) 4,4'-DDD	7.974	56771637	NoCal	ng/mL
4) 4,4'-DDT	8.169	2843050732	NoCal	ng/mL
5) Endrin Aldehyde	8.361	106683802	NoCal	ng/mL
6) Endrin Ketone	8.854	82647394	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.414	29969620	NoCal	ng/mL
9) Endrin [2C]	8.790	1447302219	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.828	50031060	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.172	61166366	NoCal	ng/mL
12) 4,4'-DDT [2C]	9.054	2890025294	NoCal	ng/mL
13) Endrin Ketone [2C]	9.764	63480307	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

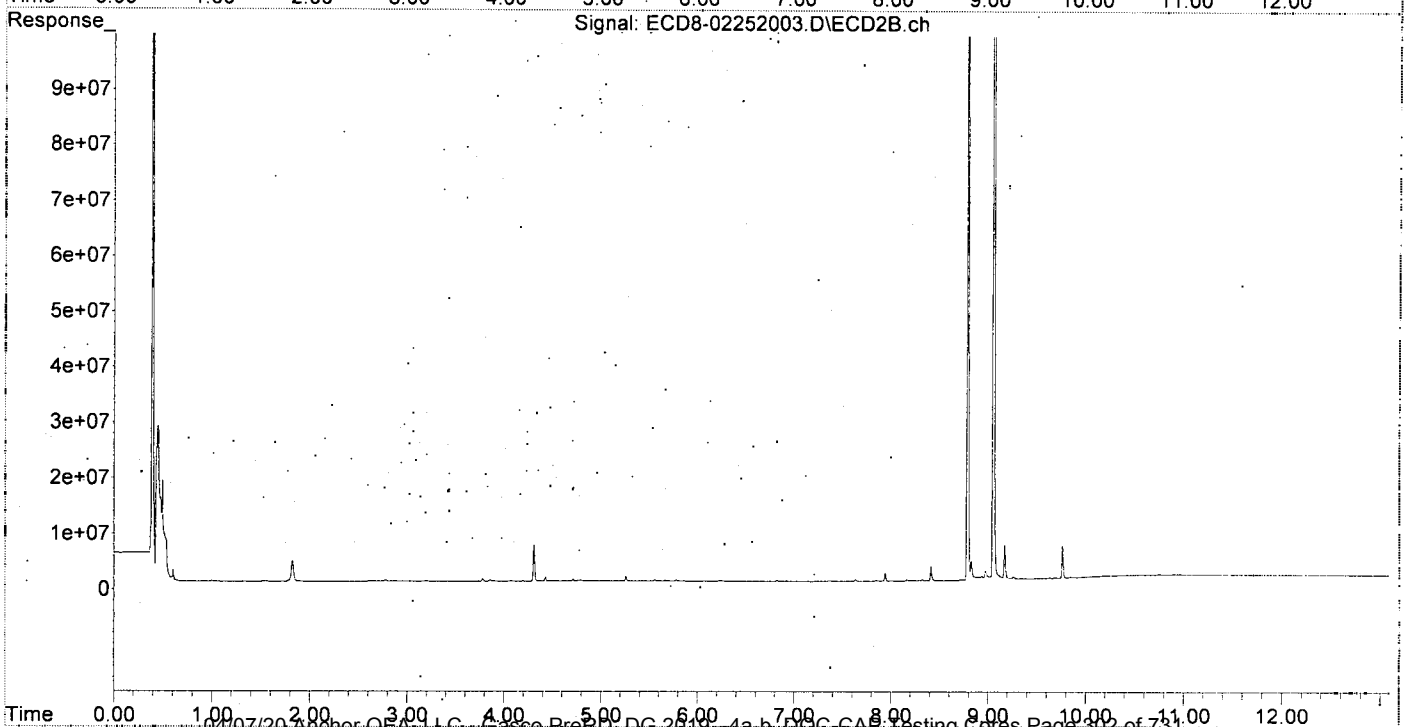
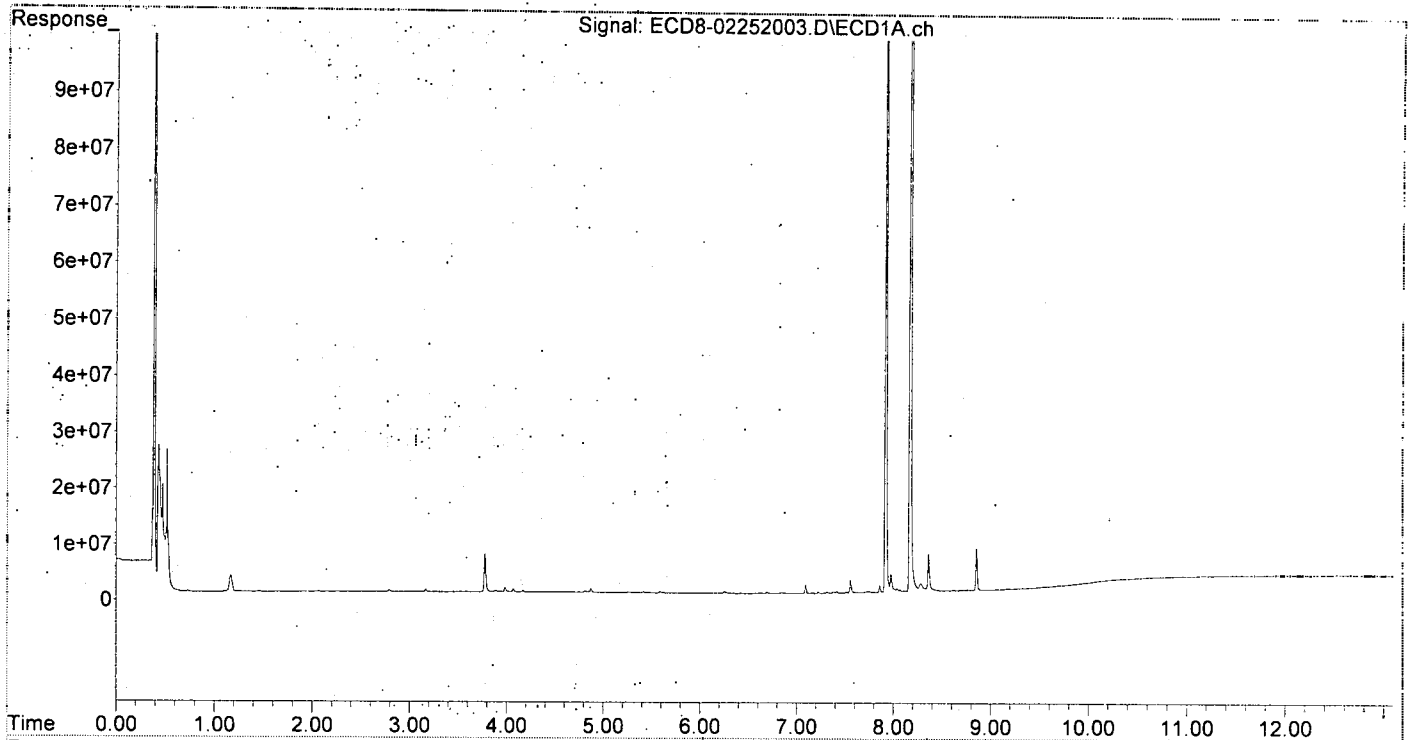
(m)=manual int.

MJB
2/26/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 11:59
Operator : MJB
Sample : 0B25044-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 25 12:13:36 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201RT6.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252004.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 12:15
 Operator : MJB
 Sample : 0B25044-CCV1
 Misc : A19K133, AB 50 ppb
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:38 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 Last Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.371	6.071	137.2E6	161.3E6	39.251	46.751
22) S DCBP (S)	9.563	10.628	121.2E6	108.2E6	46.123	50.409
Target Compounds						
2) a-BHC	5.904	6.671	214.1E6	230.9E6	45.326	49.458
3) g-BHC	6.186	6.988	188.2E6	203.1E6	45.207	48.392
4) b-BHC	6.263	7.051	72586136	79899910	41.677	46.024
5) Heptachlor	6.597	7.362	189.4E6	197.3E6	46.074	46.856
6) d-BHC	6.411	7.305	154.0E6	180.1E6	42.478	46.911
7) Aldrin	6.837	7.628	182.5E6	188.8E6	45.176	47.178
8) Heptachlo...	7.295	8.063	168.3E6	169.8E6	45.566	47.307
9) trans-Chl...	7.391	8.204	169.4E6	172.4E6	45.058	46.374
10) cis-Chlor...	7.488	8.310	164.6E6	166.8E6	44.827	47.358
11) Endosulfa...	7.582	8.362	157.1E6	155.7E6	45.305	47.112
12) 4,4'-DDE	7.554	8.413	151.1E6	164.0E6	45.491	48.116
13) Dieldrin	7.754	8.562	172.2E6	177.2E6	45.165	47.398
14) Endrin	7.917	8.789	145.2E6	137.7E6	44.495	44.698
15) 4,4'-DDD	7.972	8.827	118.4E6	131.3E6	46.542	49.667
16) Endosulfa...	8.073	8.936	123.4E6	132.1E6	41.265	46.196
17) 4,4'-DDT	8.169	9.054	126.0E6	140.3E6	46.859	50.654
18) Endrin Al...	8.361	9.172	109.5E6	117.4E6	41.588	44.398
19) Endosulfa...	8.660	9.363	120.9E6	130.8E6	42.245	48.047
20) Methoxychlor	8.510	9.530	56091196	67174437	46.485	55.268
21) Endrin Ke...	8.854	9.764	150.5E6	148.7E6	43.528	48.257
23) Hexachlor...	3.167	3.777	42130	30969	0.011	0.006 #
24) Hexachlor...	5.752	6.550	211488	72756	0.063	BelowCal #
25) Oxychlorane	7.232	7.988	850615	109896	0.097	0.034 #
26) 2,4'-DDE	7.295	8.204	168.3E6	172.4E6	72.777	75.863
27) trans-Non...	7.488	8.264	164.6E6	567056	44.901	0.157 #
28) 2,4'-DDD	7.711f	8.562	504696	177.2E6	0.261	92.584 #
29) 2,4'-DDT	7.856	8.789	743959	137.7E6	0.311	58.196 #
30) cis-Nonac...	7.972f	8.827	118.4E6	131.3E6	29.107	32.955
31) Mirex	8.602	9.764	778041	148.7E6	0.115	69.057 #
32) Chlordane...	7.391	8.204	169.4E6	172.4E6	423.095	396.886
33) Chlordane...	7.488	8.310	164.6E6	166.8E6	338.489	458.876 #
34) Chlordane...	8.073f	8.975	123.4E6	2116340	948.157	17.821 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.488f	8.562	164.6E6	177.2E6	10056.344	6014.212 #
37) Toxaphene...	0.000	8.936	0	132.1E6	N.D.	3286.270 #
38) Toxaphene...	8.073f	8.936	123.4E6	132.1E6	1783.359	2041.407
39) Toxaphene...	8.361	9.011	109.5E6	856066	1652.576	4.716 #
40) Toxaphene...	8.569	9.172f	897190	117.4E6	16.553	2047.390 #
41) Toxaphene...	8.629	9.612f	635000	650109	8.349	9.842
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

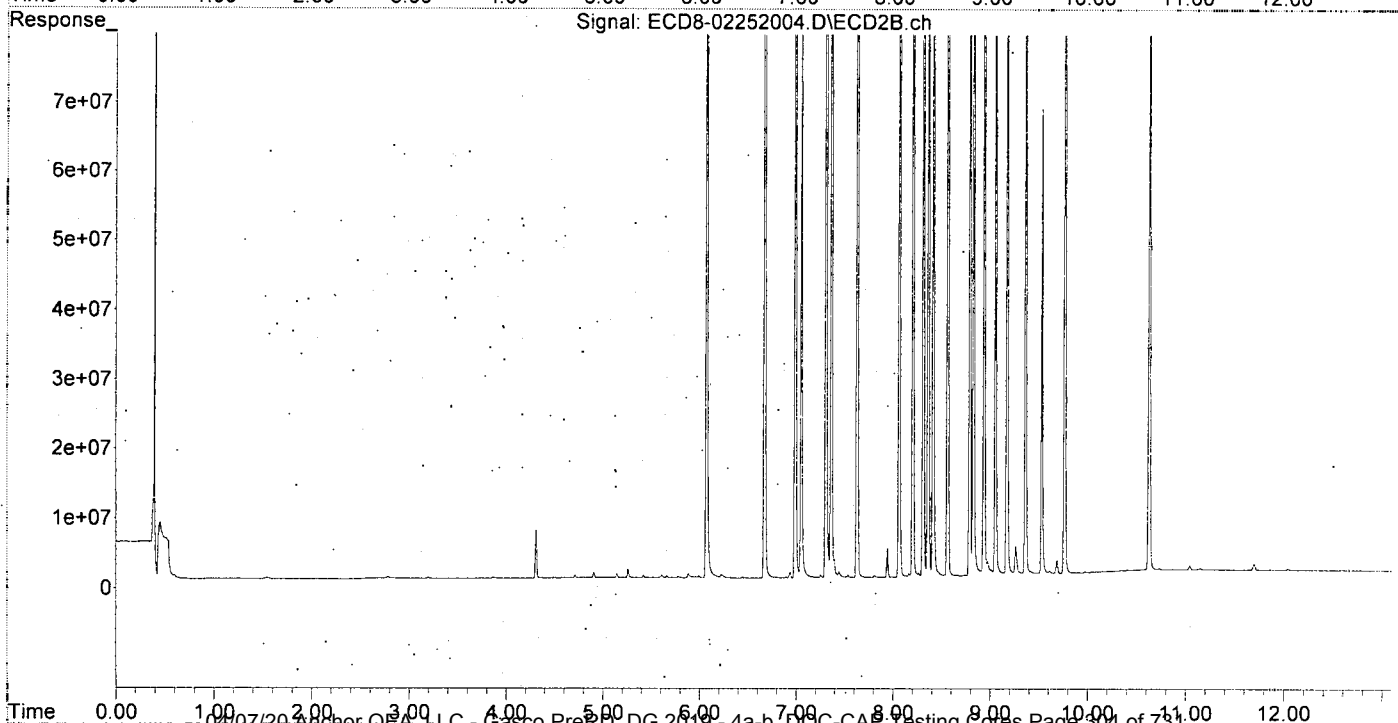
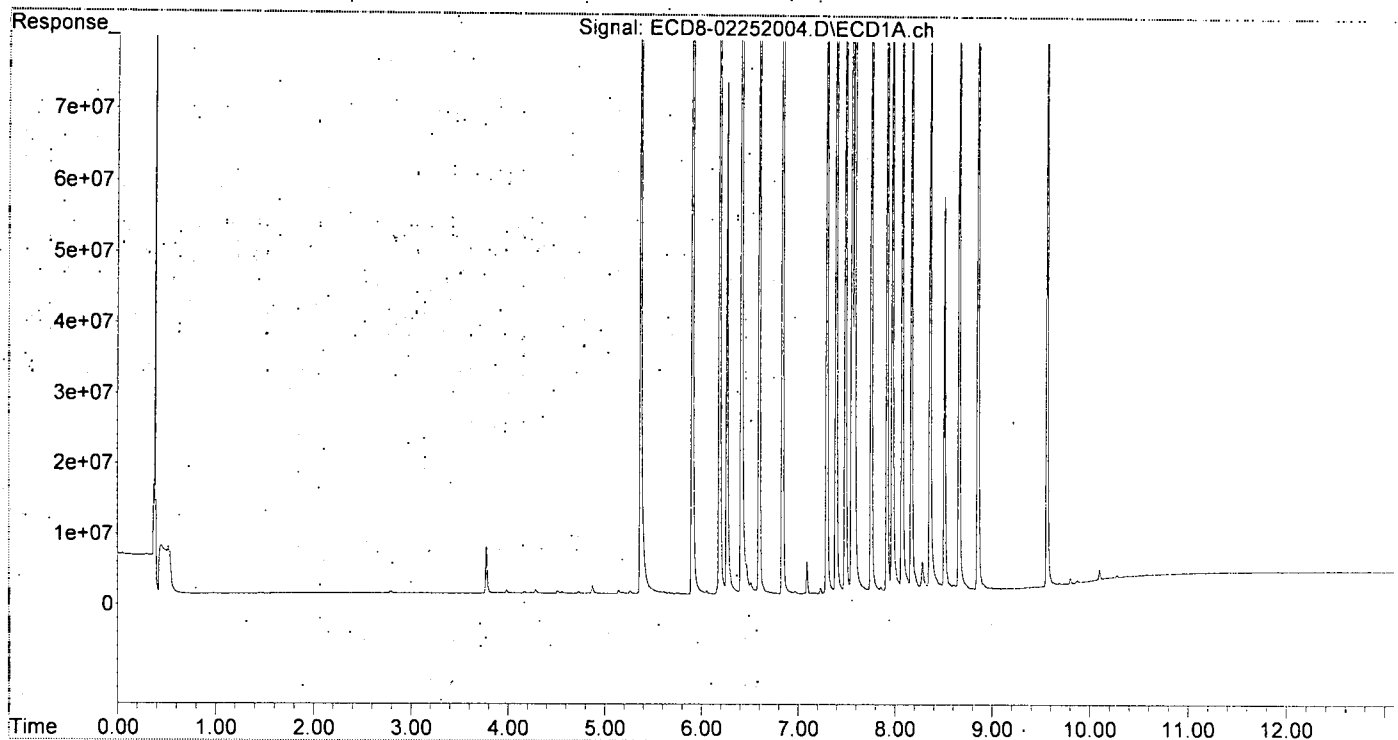
MJB
2/26/20

P-31

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252004.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 12:15
 Operator : MJB
 Sample : 0B25044-CCV1
 Misc : A19K133, AB 50 ppb
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:38 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252005.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 12:32
 Operator : MJB
 Sample : 0B25044-CCV2
 Misc : A19J408, 9-42 50 ppb
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:42 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

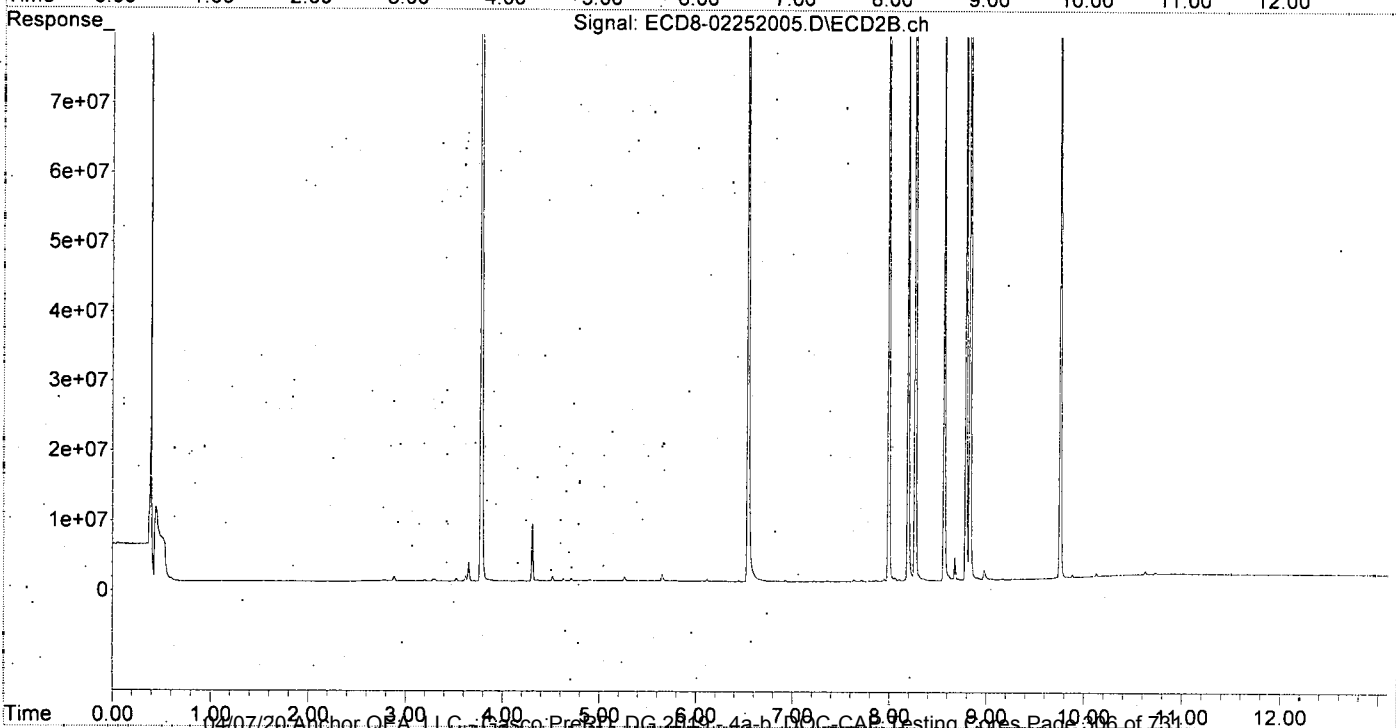
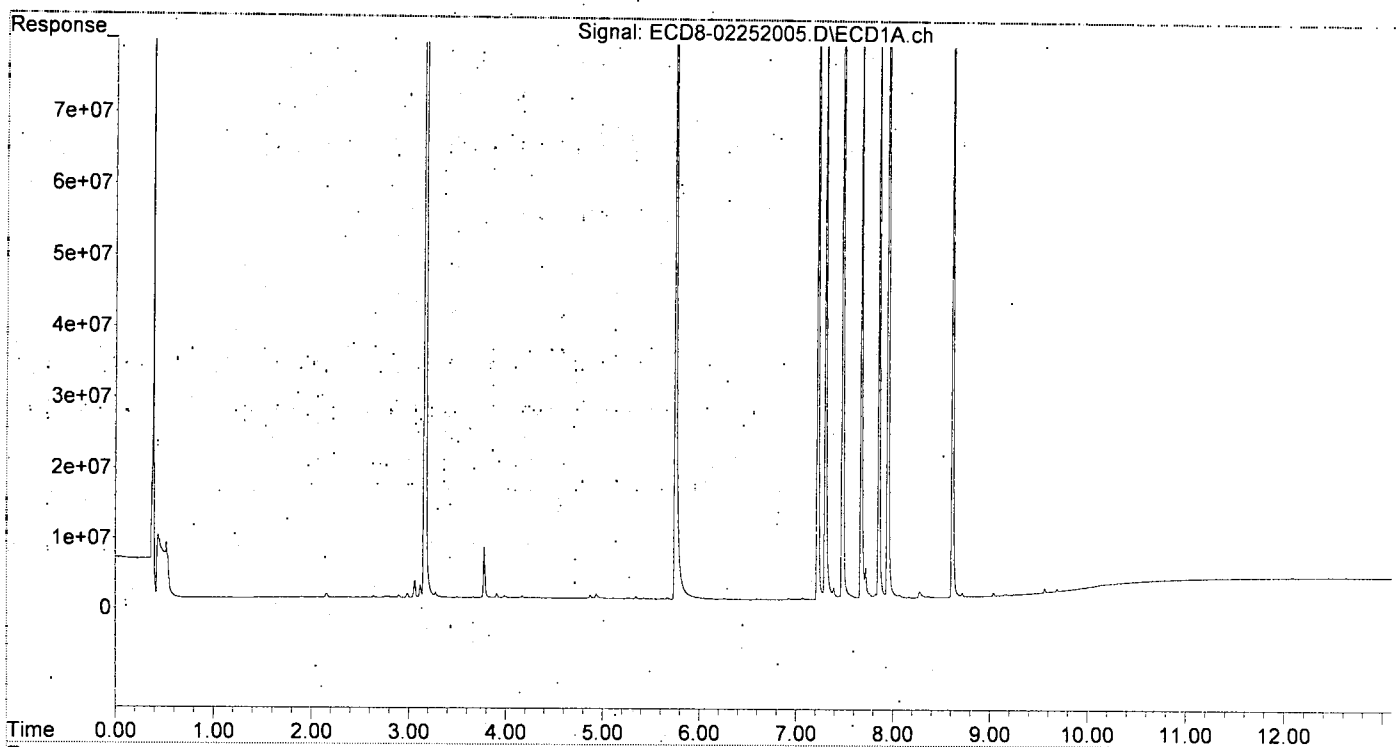
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.346f	6.070	326624	154534	0.093	0.045 #
22) S DCBP (S)	9.564	10.628	808367	754294	BelowCal	BelowCal
Target Compounds						
2) a-BHC	0.000	6.707f	0	224844	N.D.	0.128 #
3) g-BHC	6.188	6.995	81871	32355	0.020	0.050 #
4) b-BHC	6.261	7.055	192253	73609	0.110	0.042 #
5) Heptachlor	6.596	7.362	193560	177788	0.047	0.042 #
6) d-BHC	6.423	7.309	49563	55797	0.121	0.113 #
7) Aldrin	6.836	7.635	22993	285521	0.006	0.088 #
8) Heptachlo...	7.304	8.061	105.6E6	526684	28.606	0.147 #
9) trans-Chl...	7.391	8.193	1707356	109.9E6	0.454	29.567 #
10) cis-Chlor...	7.481	0.000	169.1E6	0	46.048	N.D. #
11) Endosulfa...	0.000	8.355	0	275834	N.D.	0.083 #
12) 4,4'-DDE	0.000	8.408	0	95934	N.D.	0.119 #
13) Dieldrin	7.759	8.565	815448	93328594	0.214	25.733 #
14) Endrin	7.949f	8.789	192.5E6	121.1E6	58.992	39.599 #
15) 4,4'-DDD	7.949f	8.831	192.5E6	202.0E6	75.651	72.453 #
16) Endosulfa...	8.070	8.936	516096	178944	0.173	0.037 #
17) 4,4'-DDT	8.170	9.053	123192	119084	0.046	0.023 #
18) Endrin Al...	8.362	9.172	174541	74047	0.066	0.028 #
19) Endosulfa...	0.000	9.362	0	50241	N.D.	BelowCal
20) Methoxychlor	8.514	9.547	17636	39850	0.015	BelowCal #
21) Endrin Ke...	8.858	9.757	64412	116.8E6	0.019	38.496 #
23) Hexachlor...	3.165	3.778	194.4E6	244.0E6	49.860	50.385 #
24) Hexachlor...	5.751	6.537	141.7E6	166.1E6	42.143	52.850 #
25) Oxychlordane	7.224	7.992	155.5E6	158.3E6	50.096	49.511 #
26) 2,4'-DDE	7.304	8.193	105.6E6	109.9E6	45.688	48.368 #
27) trans-Non...	7.481	8.266	169.1E6	171.9E6	46.124	47.630 #
28) 2,4'-DDD	7.674	8.565	89136360	93328594	46.023	48.754 #
29) 2,4'-DDT	7.856	8.789	117.6E6	121.1E6	49.154	51.729 #
30) cis-Nonac...	7.949	8.831	192.5E6	202.0E6	47.311	50.697 #
31) Mirex	8.615	9.757	121.3E6	116.8E6	50.176	54.596 #
32) Chlordane...	7.391	8.193	1707356	109.9E6	4.263	253.043 #
33) Chlordane...	7.481	8.355f	169.1E6	275834	347.709	0.759 #
34) Chlordane...	8.070f	8.978	516096	1411232	3.964	11.884 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.481f	8.565	169.1E6	93328594	10330.287	3167.013 #
37) Toxaphene...	7.826f	8.912	715008	365046	22.760	9.083 #
38) Toxaphene...	8.070f	8.936	516096	178944	4.172	2.766 #
39) Toxaphene...	8.362	9.053f	174541	119084	BelowCal	BelowCal
40) Toxaphene...	8.562	9.214	6900	9134	0.127	0.159 #
41) Toxaphene...	8.615f	9.600f	121.3E6	43994	1594.678	0.666 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 12:32
Operator : MJB
Sample : 0B25044-CCV2
Misc : A19J408, 9-42 50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:42 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 12:49
 Operator : MJB
 Sample : 0B25044-CCB1
 Misc : A20A395
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:46 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

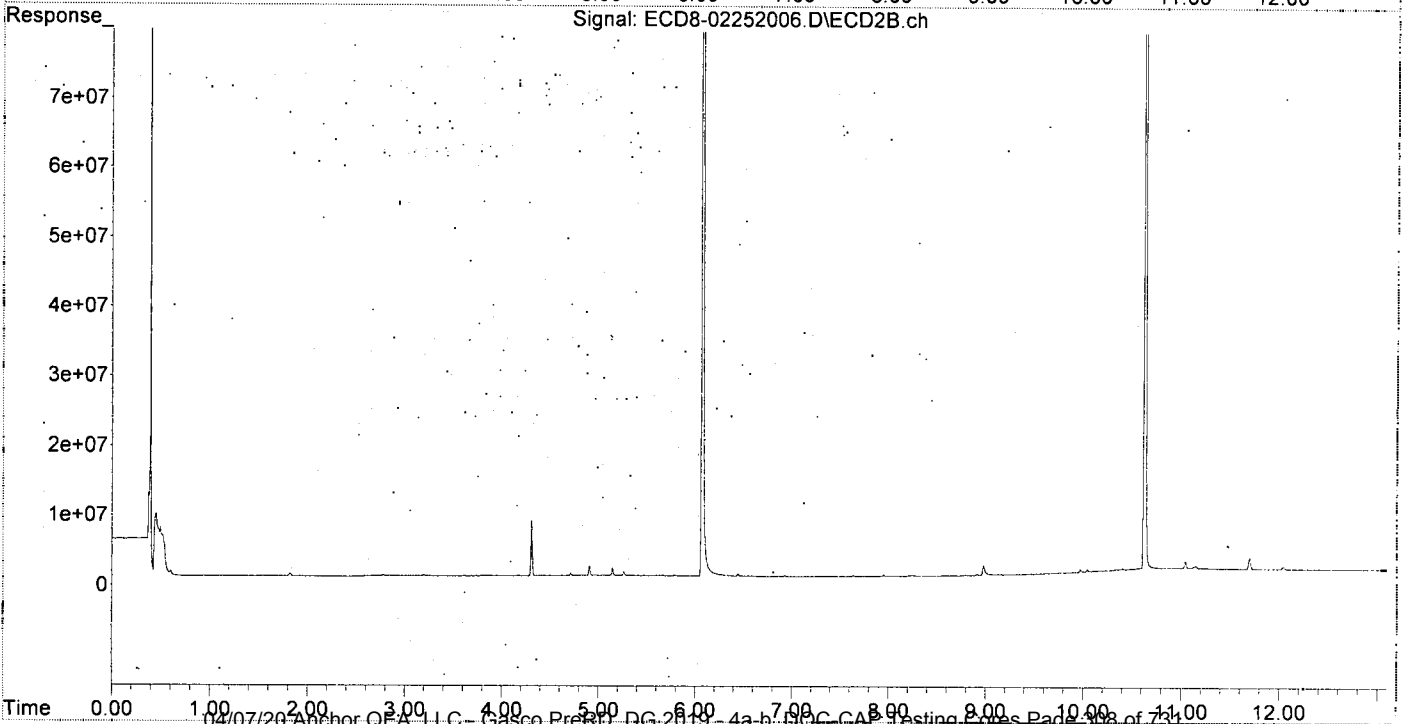
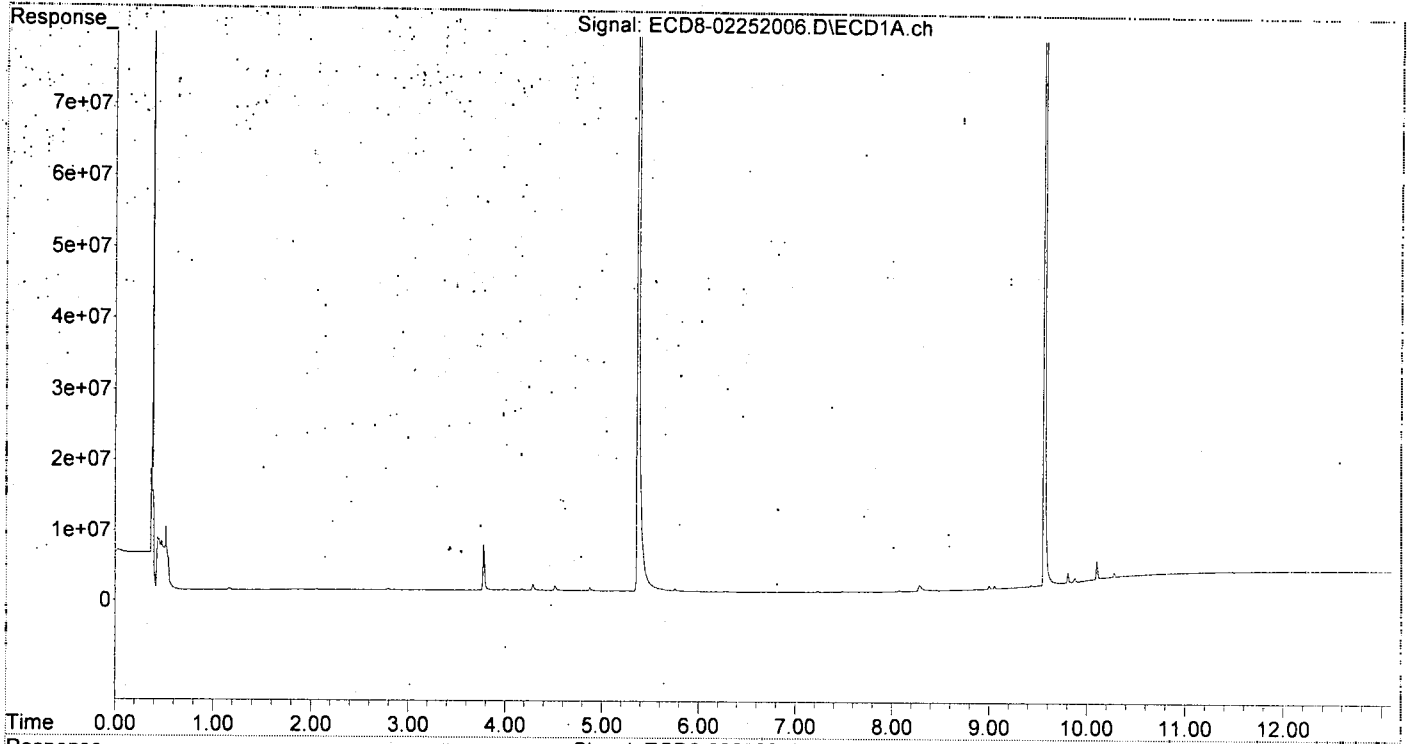
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.371	6.072	278.2E6	328.7E6	79.570	95.299
22) S DCBP (S)	9.564	10.629	237.2E6	203.3E6	88.877	91.312
Target Compounds						
2) a-BHC	5.924f	0.000	22146	0	0.005	N.D. #
3) g-BHC	0.000	7.010f	0	8425	N.D.	0.044 #
4) b-BHC	6.268	7.063	115081	5164	0.066	0.003 #
5) Heptachlor	0.000	7.375	0	12982	N.D.	0.003 #
6) d-BHC	0.000	7.309	0	22575	N.D.	0.104 #
7) Aldrin	0.000	7.638	0	126685	N.D.	0.046 #
8) Heptachlo...	7.279	8.062	4211	18042	0.001	0.005 #
9) trans-Chl...	7.380	8.204	58183	65775	0.015	0.018
10) cis-Chlor...	7.485	8.315	62647	17806	0.017	0.005 #
11) Endosulfa...	0.000	8.359	0	9721	N.D.	0.003 #
12) 4,4'-DDE	7.527f	8.376f	10442	11834	0.003	0.092 #
13) Dieldrin	0.000	8.570	0	19679	N.D.	0.038 #
14) Endrin	7.924	8.785	11028	46932	0.003	0.009 #
15) 4,4'-DDD	7.978	8.830	11401	42214	0.004	0.061 #
16) Endosulfa...	8.073	8.915f	208862	196054	0.070	0.044 #
17) 4,4'-DDT	8.168	9.093f	12752	58479	0.005	BelowCal #
18) Endrin Al...	8.347	9.174	181507	54678	0.069	0.021 #
19) Endosulfa...	8.664	9.365	33391	39705	0.012	BelowCal #
20) Methoxychlor	8.508	9.533	56521	44389	0.047	BelowCal #
21) Endrin Ke...	8.857	9.761	24788	148432	0.007	BelowCal #
23) Hexachlor...	3.172	3.795	44535	145867	0.011	0.030 #
24) Hexachlor...	5.754	6.537	368151	72595	0.110	BelowCal #
25) Oxychlorane	7.230	7.992	194084	29916	BelowCal	0.009
26) 2,4'-DDE	7.279f	8.204	4211	65775	0.002	0.029 #
27) trans-Non...	7.485	8.263	62647	74787	0.017	0.021
28) 2,4'-DDD	0.000	8.570	0	19679	N.D.	0.010 #
29) 2,4'-DDT	7.858	8.785	6756	46932	0.003	BelowCal #
30) cis-Nonac...	7.950	8.830	31948	42214	0.008	0.011 #
31) Mirex	8.621	9.761	69560	148432	8199.100	BelowCal #
32) Chlordane...	7.402	8.204	20362	65775	0.051	0.151 #
33) Chlordane...	7.498	8.315	33919	17806	0.070	0.049 #
34) Chlordane...	8.040	8.979	34359	1409806	0.264	11.872 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.511	8.570	26578	19679	1.624	0.668 #
37) Toxaphene...	0.000	8.915	0	196054	N.D.	4.878 #
38) Toxaphene...	8.113	8.979f	20131	1409806	96753.651	21.791 #
39) Toxaphene...	8.347	0.000	181507	0	BelowCal	N.D.
40) Toxaphene...	8.576	9.216	26284	26447	0.485	0.461
41) Toxaphene...	8.642	9.565	18115	43923	0.238	0.665 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 12:49
Operator : MJB
Sample : 0B25044-CCB1
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:46 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 13:06
 Operator : MJB
 Sample : 0020430-BLK1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:50 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

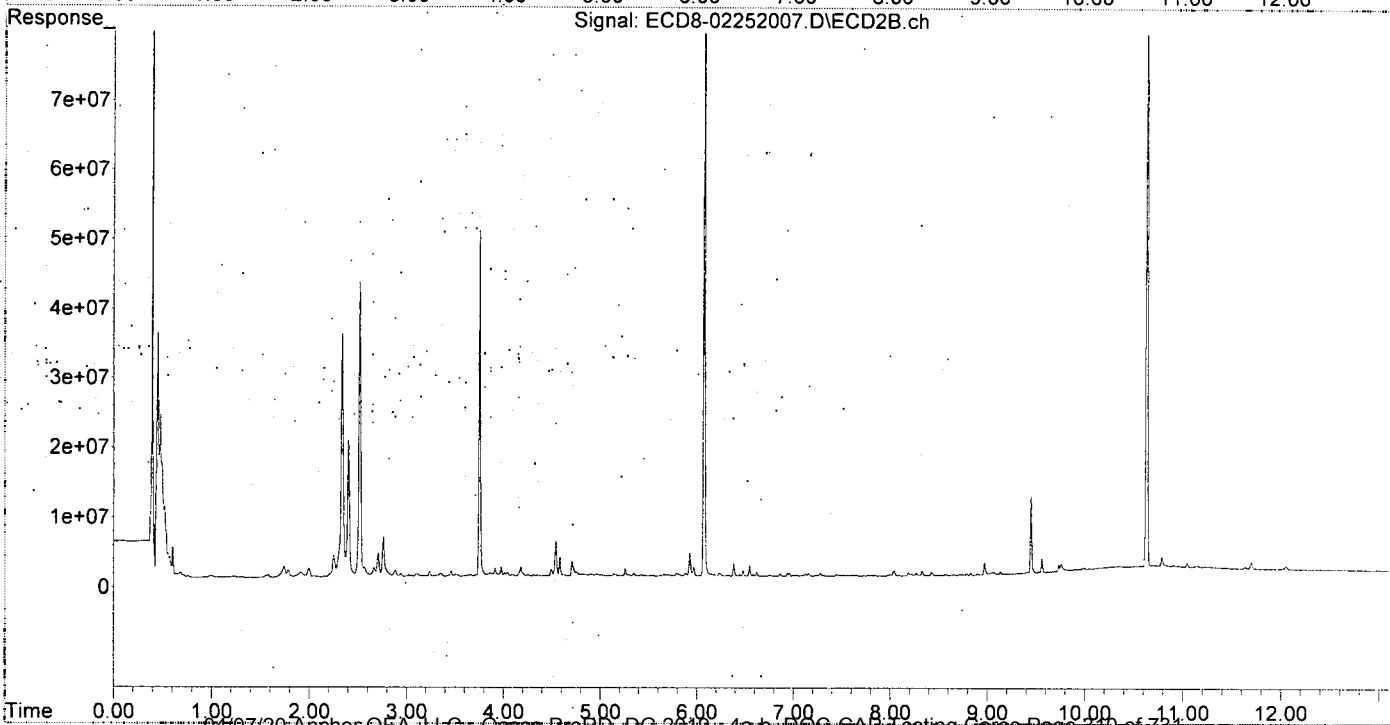
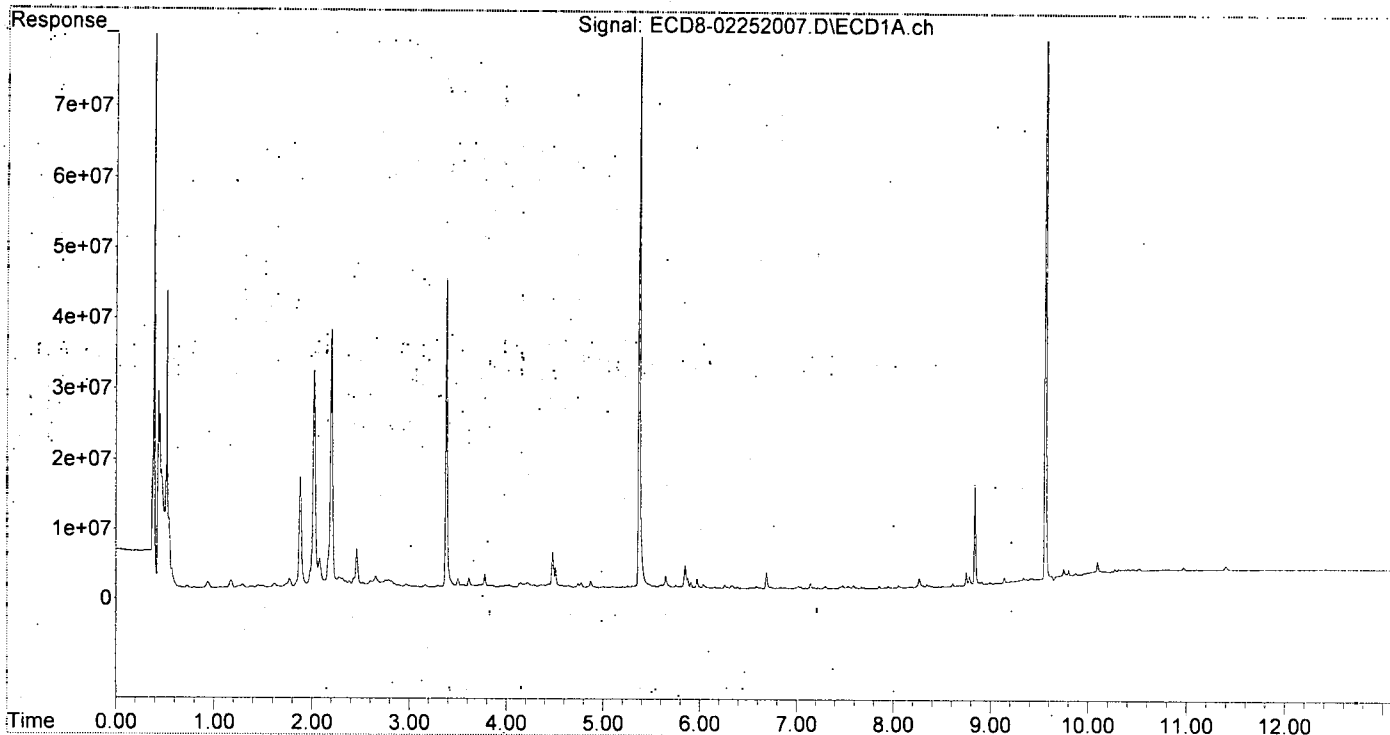
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.370	6.070	91540961	105.0E6	26.184	30.425
22) S DCBP (S)	9.561	10.627	129.6E6	101.2E6	49.299	47.247
Target Compounds						
2) a-BHC	5.908	0.000	911828	0	0.193	N.D. #
3) g-BHC	6.190	6.997	105451	187416	0.025	0.090 #
4) b-BHC	6.258	7.037	538294	188539	0.309	0.109 #
5) Heptachlor	6.586	7.365	280156	62400	0.068	0.015 #
6) d-BHC	6.387f	7.330f	257210	87224	0.181	0.122 #
7) Aldrin	6.838	7.634	202596	204336	0.050	0.067 #
8) Heptachlo...	7.300	8.041f	359823	834824	0.097	0.233 #
9) trans-Chl...	7.390	8.189	100545	461039	0.027	0.124 #
10) cis-Chlor...	7.477	8.329	443718	742074	0.121	0.211 #
11) Endosulfa...	7.588	8.386f	449498	90951	0.130	0.028 #
12) 4,4'-DDE	7.531f	8.424	358289	518751	0.108	0.255 #
13) Dieldrin	7.758	8.563	54485	245675	0.014	0.102 #
14) Endrin	7.915	8.788	81817	287191	0.025	0.092 #
15) 4,4'-DDD	7.979	8.829	110319	289803	0.043	0.167 #
16) Endosulfa...	8.052f	8.936	367125	46941	0.123	BelowCal #
17) 4,4'-DDT	8.177	9.045	148823	380595	0.055	0.130 #
18) Endrin Al...	8.348	9.168	433964	125708	0.165	0.048 #
19) Endosulfa...	8.656	9.371	64610	207924	0.023	BelowCal #
20) Methoxychlor	8.509	9.529	70416	314166	0.058	BelowCal #
21) Endrin Ke...	8.839	9.757	14308960	1466471	4.140	0.297 #
23) Hexachlor...	3.164	3.750f	488440	50000732	0.125	10.327 #
24) Hexachlor...	5.752	6.545	499067	1657701	0.148	0.523 #
25) Oxychlordan	7.221	7.993	161895	226033	BelowCal	0.071
26) 2,4'-DDE	7.300	8.189	359823	461039	0.156	0.203 #
27) trans-Non...	7.477	8.267	443718	378461	0.121	0.105
28) 2,4'-DDD	7.672	8.563	268402	245675	0.139	0.128
29) 2,4'-DDT	7.853	8.788	372134	287191	0.156	0.086 #
30) cis-Nonac...	7.946	8.829	338762	289803	0.083	0.073
31) Mirex	8.612	9.757	391728	1466471	8198.967	0.456 #
32) Chlordane...	7.390	8.220	100545	231517	0.251	0.533 #
33) Chlordane...	7.477	8.329	443718	742074	0.912	2.041 #
34) Chlordane...	8.052	8.970	367125	1789396	2.820	15.068 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.531f	8.563	358289	245675	21.888	8.337 #
37) Toxaphene...	7.815	8.936	24395	46941	0.777	1.168 #
38) Toxaphene...	8.135f	8.970	92820	1789396	96752.618	27.658 #
39) Toxaphene...	8.348	9.024	433964	181223	BelowCal	BelowCal
40) Toxaphene...	8.549f	9.221f	22936	82583	0.423	1.441 #
41) Toxaphene...	8.656	9.560	64610	2196283	0.850	33.250 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:06
Operator : MJB
Sample : 0020430-BLK1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252008.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 13:23
 Operator : MJB
 Sample : 0020430-BS1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:54 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

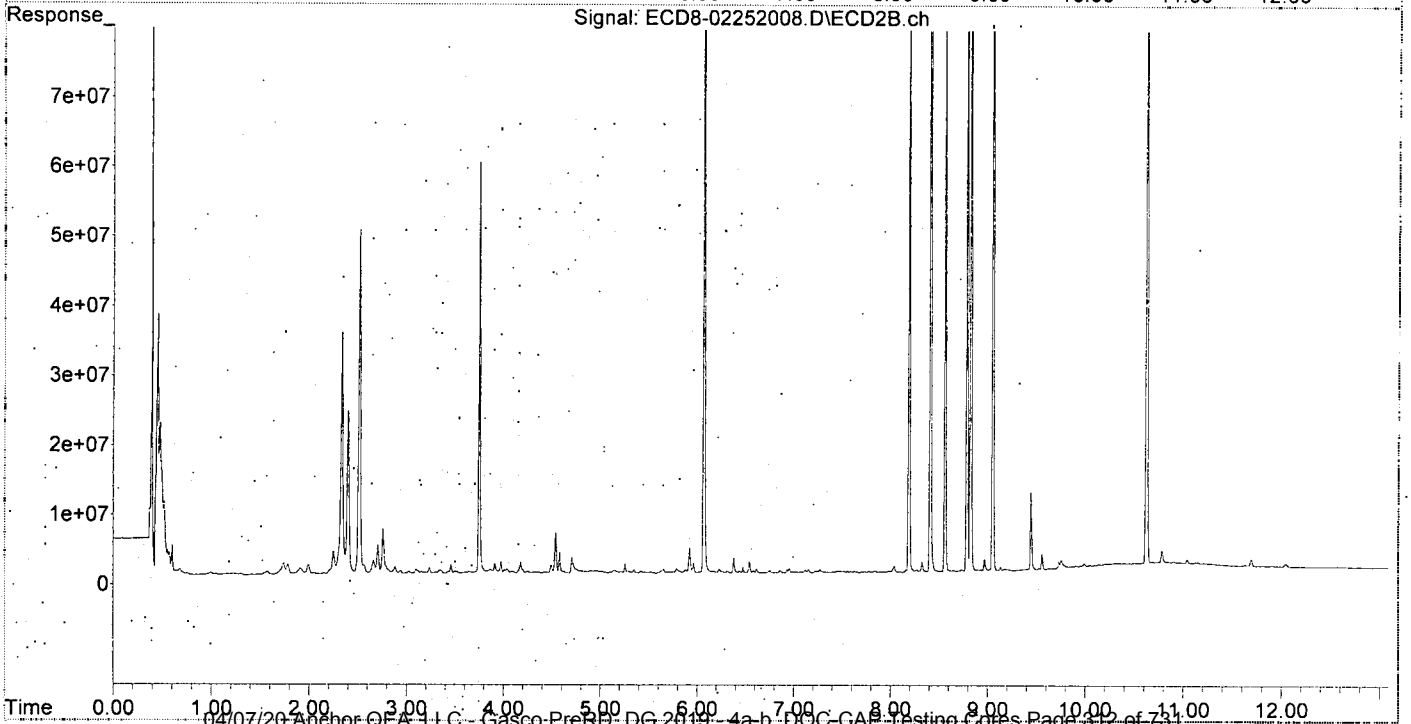
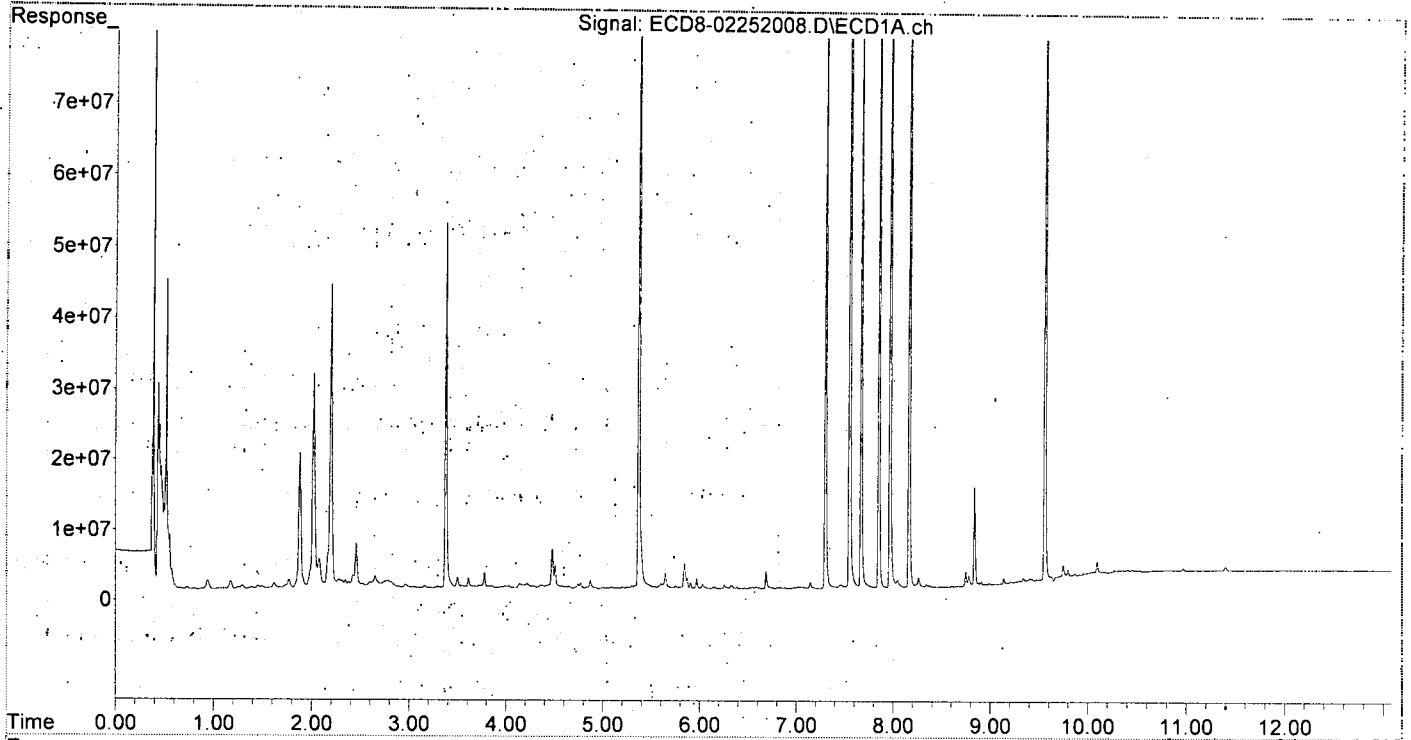
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.370	6.070	112.1E6	126.8E6	32.066	36.768
22) S DCBP (S)	9.560	10.627	140.3E6	111.3E6	53.297	51.777
Target Compounds						
2) a-BHC	5.907	6.703f	914548	93358	0.194	0.098 #
3) g-BHC	6.192	6.995	97423	215772	0.023	0.097 #
4) b-BHC	6.256	7.037	572309	210847	0.329	0.121 #
5) Heptachlor	6.607	7.367	172921	92717	0.042	0.022 #
6) d-BHC	6.418	7.330f	68655	128206	0.126	0.134
7) Aldrin	6.836	7.632	221740	209890	0.055	0.068
8) Heptachlo...	7.300	8.040f	97262317	981646	26.338	0.273 #
9) trans-Chl...	7.411f	8.191	268602	97475009	0.071	26.214 #
10) cis-Chlor...	7.508f	8.326	327865	1527878	0.089	0.434 #
11) Endosulfa...	7.550f	8.363	157.2E6	153003	45.323	0.046 #
12) 4,4'-DDE	7.550	8.410	157.2E6	166.4E6	47.342	48.772
13) Dieldrin	0.000	8.562	0	96119591	N.D.	26.474 #
14) Endrin	0.000	8.787	0	117.1E6	N.D.	38.363 #
15) 4,4'-DDD	7.967	8.825	135.8E6	145.9E6	53.375	54.523
16) Endosulfa...	8.047f	8.933	1137325	259448	0.380	0.068 #
17) 4,4'-DDT	8.166	9.053	147.7E6	148.8E6	54.948	53.394
18) Endrin Al...	8.375	9.175	257833	309578	0.098	0.117
19) Endosulfa...	8.653	9.366	108576	224359	0.038	0.001 #
20) Methoxychlor	8.505	9.528	112324	396747	0.093	0.000 #
21) Endrin Ke...	8.838	9.757	14115754	1509747	4.084	0.313 #
23) Hexachlor...	3.165	3.750f	509236	59276006	0.131	12.242 #
24) Hexachlor...	5.751	6.544	458396	1704976	0.136	0.539 #
25) Oxychlorane	7.206	7.985	105463	246976	BelowCal	0.077
26) 2,4'-DDE	7.300	8.191	97262317	97475009	42.067	42.884
27) trans-Non...	7.457f	8.272	578593	340696	0.158	0.094 #
28) 2,4'-DDD	7.670	8.562	94777991	96119591	48.935	50.212
29) 2,4'-DDT	7.853	8.787	116.4E6	117.1E6	48.658	50.155
30) cis-Nonac...	7.967	8.825	135.8E6	145.9E6	33.380	36.598
31) Mirex	8.607	9.757	175798	1509747	8199.056	0.477 #
32) Chlordane...	7.411	8.191	268602	97475009	0.671	224.351 #
33) Chlordane...	7.508	8.326	327865	1527878	0.674	4.203 #
34) Chlordane...	8.047	8.968	1137325	1782918	8.735	15.013 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.508	8.562	327865	96119591	20.029	3261.723 #
37) Toxaphene...	7.821	8.933	198832	259448	6.329	6.456
38) Toxaphene...	0.000	8.968	0	1782918	N.D.	27.558 #
39) Toxaphene...	8.344	9.053f	479605	148.8E6	0.452	1398.009 #
40) Toxaphene...	8.580	9.213	10258	207617	0.189	3.621 #
41) Toxaphene...	8.653	9.559	108576	2431286	1.428	36.808 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:23
Operator : MJB
Sample : 0020430-BS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 13:40
 Operator : MJB
 Sample : AOB0288-01RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:58 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

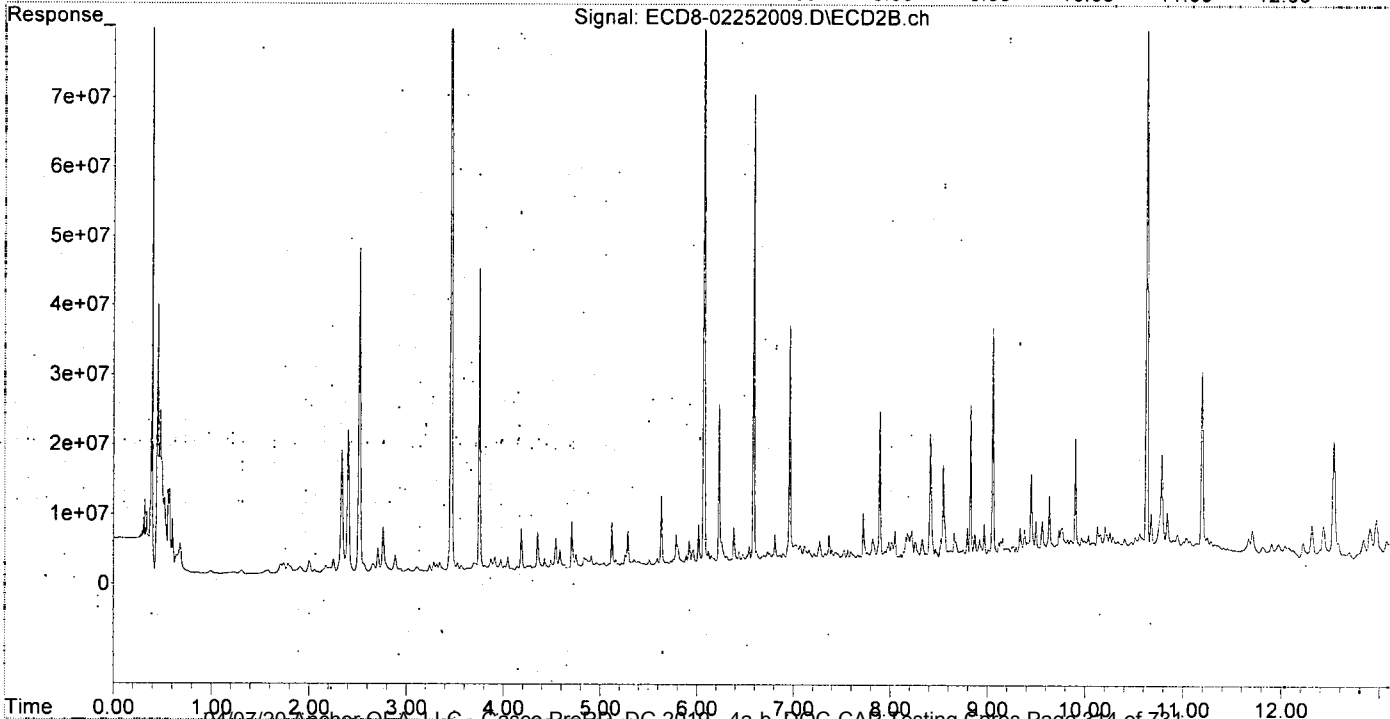
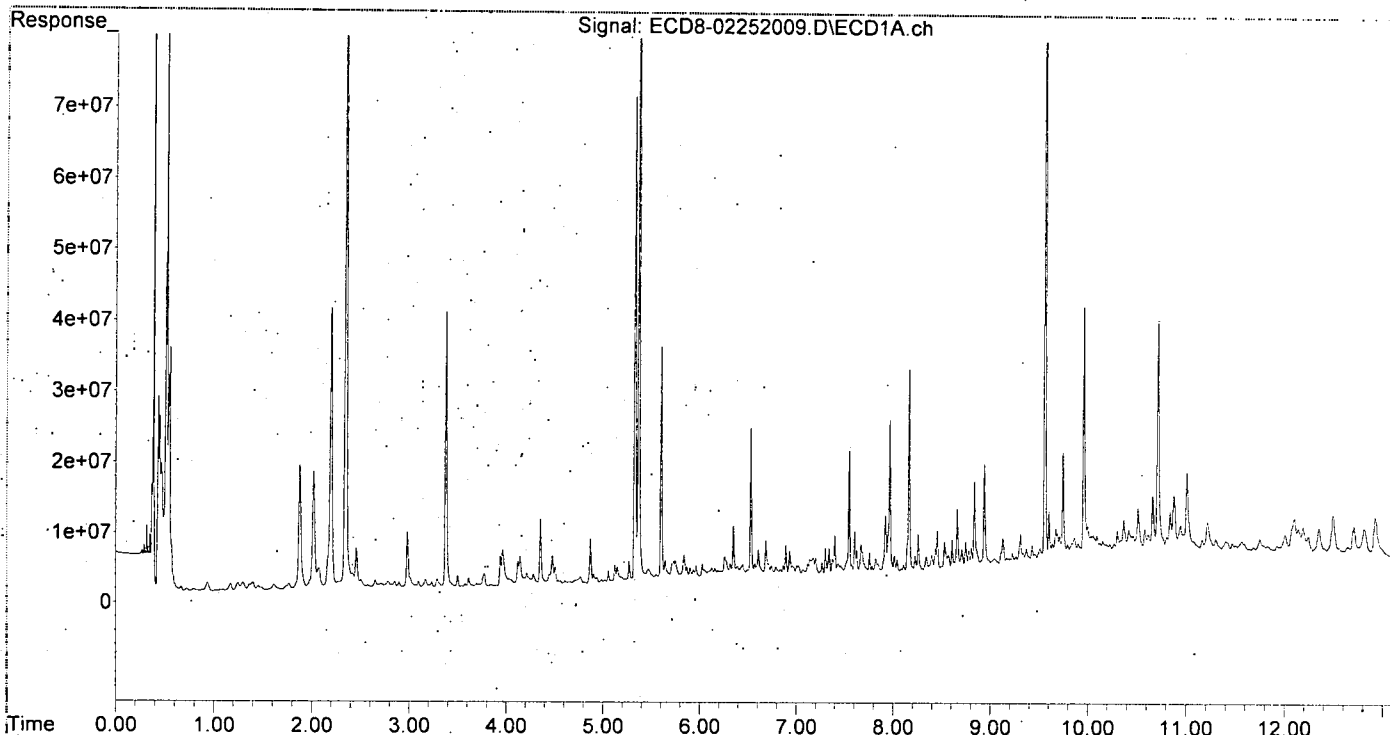
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.370	6.070	108.7E6	121.5E6	31.078	35.225
22) S DCBP (S)	9.560	10.627	123.8E6	99647744	47.124	46.556
Target Compounds						
2) a-BHC	5.902	6.668	1742339	2917974	0.369	0.759 #
3) g-BHC	6.190	6.958f	1286060	35959007	0.309	9.127 #
4) b-BHC	6.259	7.067	3183689	4539720	1.828	2.615 #
5) Heptachlor	6.608	7.365	4035487	6183703	0.982	1.469 #
6) d-BHC	6.429	7.324	1613091	3460111	0.573	1.084 #
7) Aldrin	6.838	7.612	1036165	3227780	0.256	0.874 #
8) Heptachlo...	7.300	8.046	3854376	6682221	1.044	1.861 #
9) trans-Chl...	7.398	8.221	5695263	6755845	1.514	1.817
10) cis-Chlor...	7.460f	8.327	1280762	5583878	0.349	1.585 #
11) Endosulfa...	7.575	8.366	1268418	3495423	0.366	1.058 #
12) 4,4'-DDE	7.548	8.409	17612475	18865657	5.304	6.079m
13) Dieldrin	7.756	8.543	3035346	16172357	0.796	4.622 #
14) Endrin	7.921	8.791	8272027	7170906	2.535	2.480
15) 4,4'-DDD	7.967	8.825	21835449	22571812	8.580	9.475m
16) Endosulfa...	8.087	8.918	545942	5554193	0.182	2.069 #
17) 4,4'-DDT	8.165	9.052	28950394	33260966	10.769	13.113m
18) Endrin Al...	8.342	9.179	2244718	4234297	0.853	1.602 #
19) Endosulfa...	8.661	9.378	8802419	6951438	3.075	2.681
20) Methoxychlor	8.503	9.560f	744839	8297683	0.617	7.334 #
21) Endrin Ke...	8.838	9.764	12637588	7276171	3.656	2.350 #
23) Hexachlor...	3.167	3.806f	1148609	1444390	0.295	0.298
24) Hexachlor...	5.750	6.539	2837516	4355034	0.844	1.460 #
25) Oxychlordan...	7.200f	7.984	2543522	5077936	0.649	1.588 #
26) 2,4'-DDE	7.300	8.175	3854376	4633611	1.667	2.039m #
27) trans-Non...	7.460f	8.254	1280762	5094945	0.349	1.412 #
28) 2,4'-DDD	7.669	8.550	4191690	8839724	2.164	4.618m #
29) 2,4'-DDT	7.840	8.791	1433577	4915024	0.599	2.251m #
30) cis-Nonac...	7.967	8.825	21835449	24926610	5.366	6.255
31) Mirex	8.609	9.764	4488495	7276171	1.647	3.259 #
32) Chlordane...	7.398	8.221	5695263	6755845	14.221	15.549
33) Chlordane...	7.460f	8.327	1280762	5583878	2.634	15.359 #
34) Chlordane...	8.040	8.965	1922889	7748561	14.769	65.248 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.548f	8.590	17612475	3912899	1075.938	132.780 #
37) Toxaphene...	7.784	8.918	1075506	5554193	34.235	138.202 #
38) Toxaphene...	8.108	8.965	1093201	7748561	12.371	119.768 #
39) Toxaphene...	8.342	9.009	2244718	4055345	27.657	37.882 #
40) Toxaphene...	8.571	9.196	2289644	4284429	42.243	74.734 #
41) Toxaphene...	8.661	9.560	8802419	8297683	115.739	125.620
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

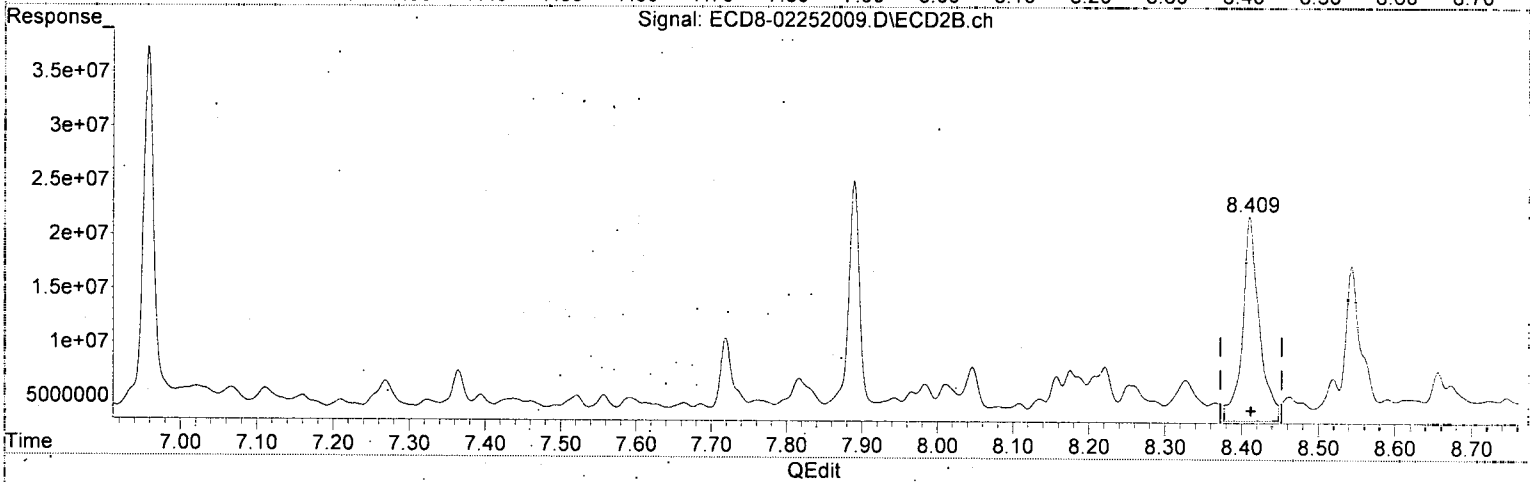
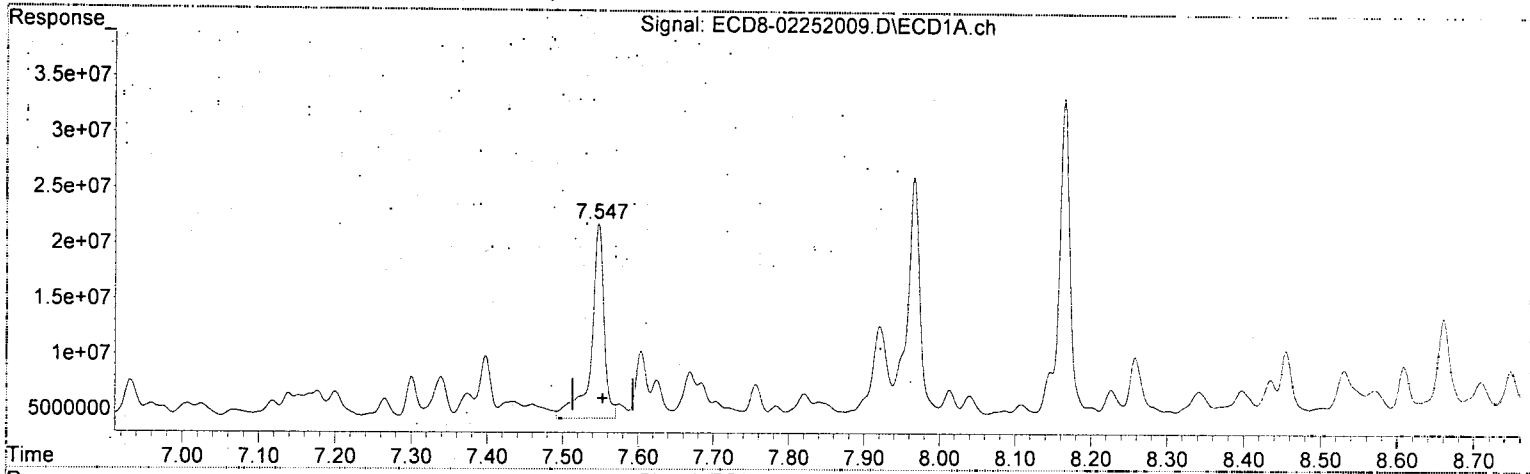
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE
7.548min 5.304 ng/mL
response 17612475

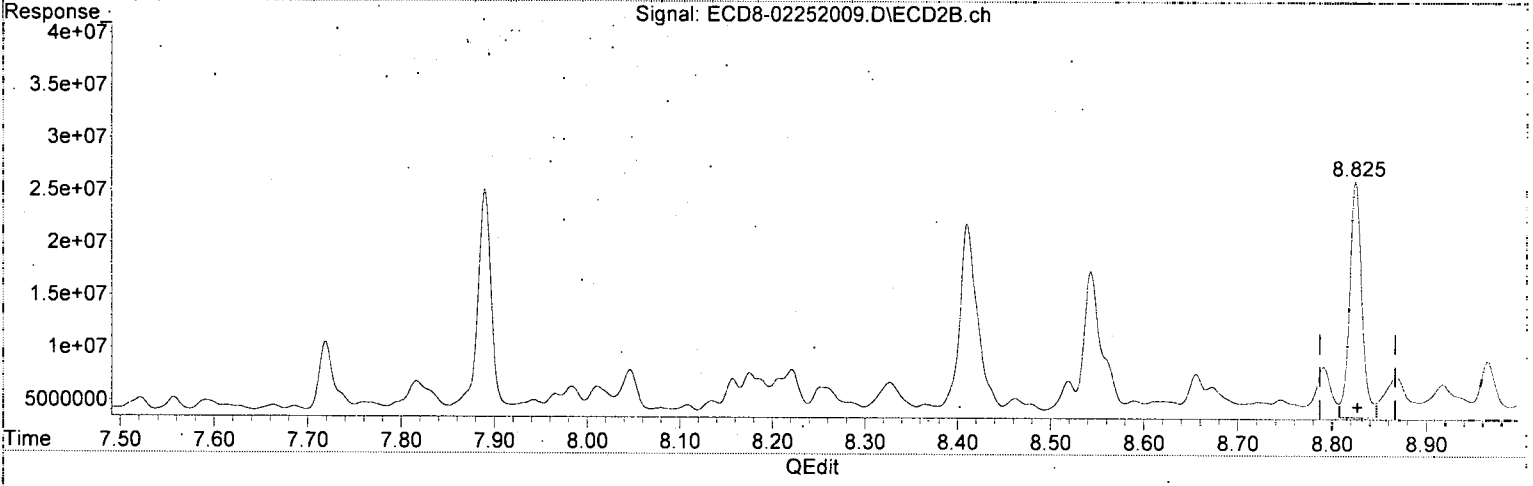
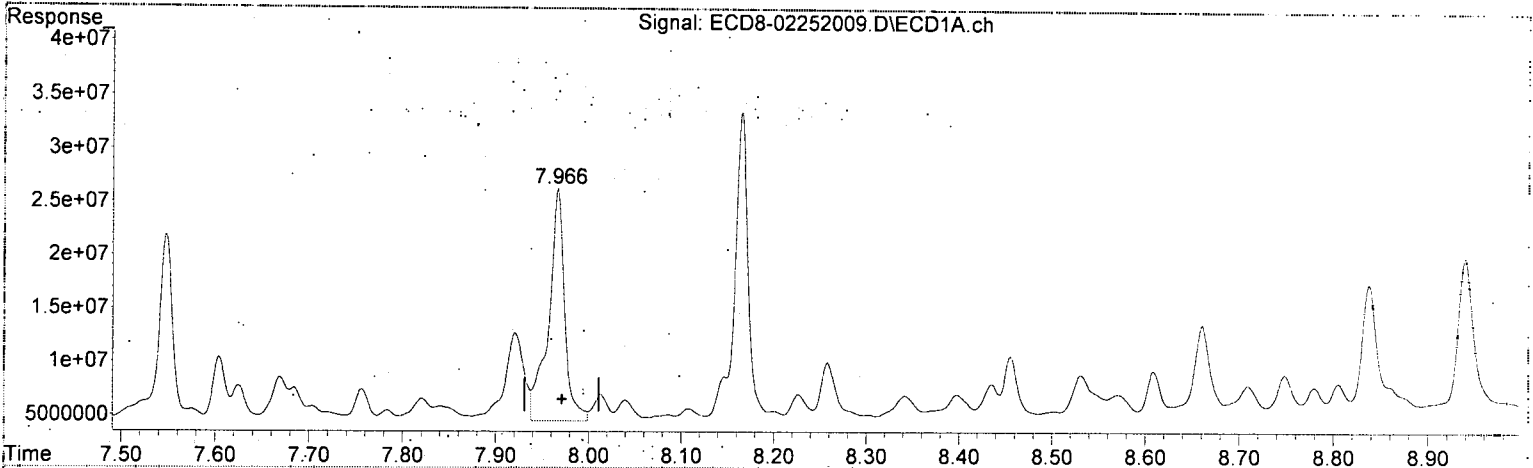
MJB
2/26/20

(12) 4,4'-DDE #2
8.409min 6.079 ng/mL (m)
response 18865657

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD
7.967min 8.580 ng/mL
response 21835449

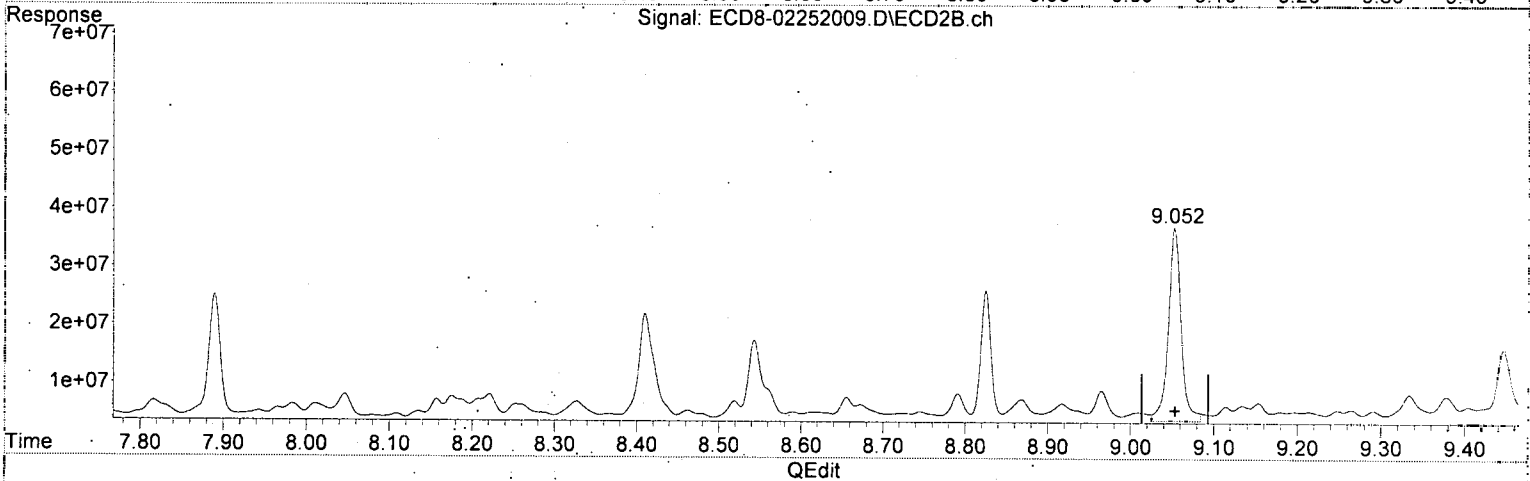
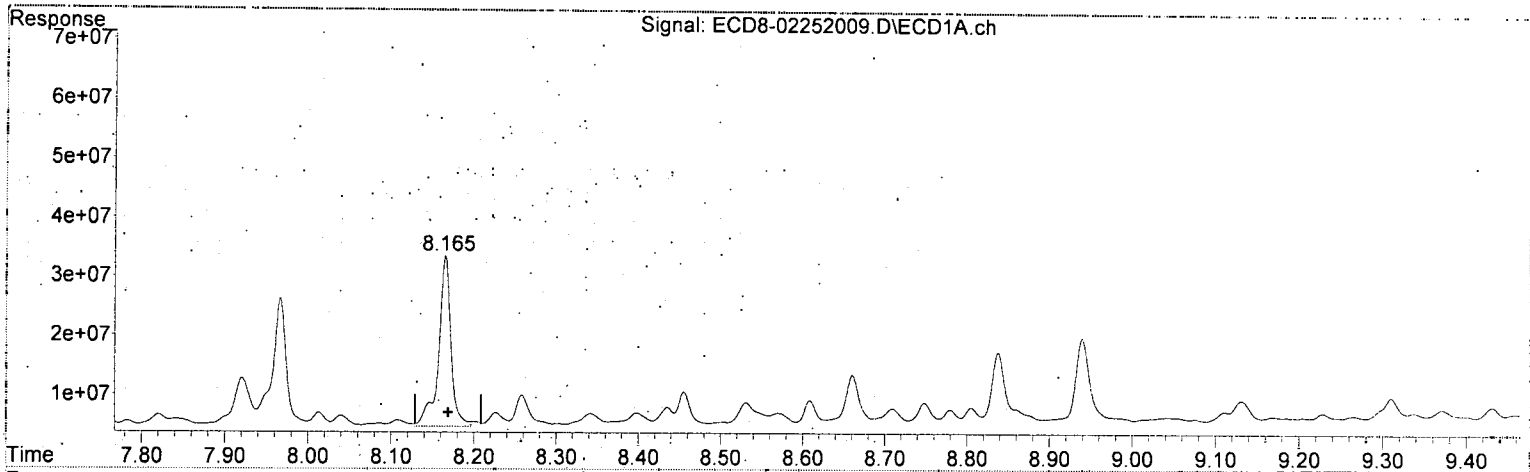
MJB
2/26/20

(15) 4,4'-DDD #2
8.825min 9.475 ng/mL (m)
response 22571812

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 13:40
 Operator : MJB
 Sample : A0B0288-01RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:58 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



(17) 4,4'-DDT
 8.165min 10.769 ng/mL
 response 28950394

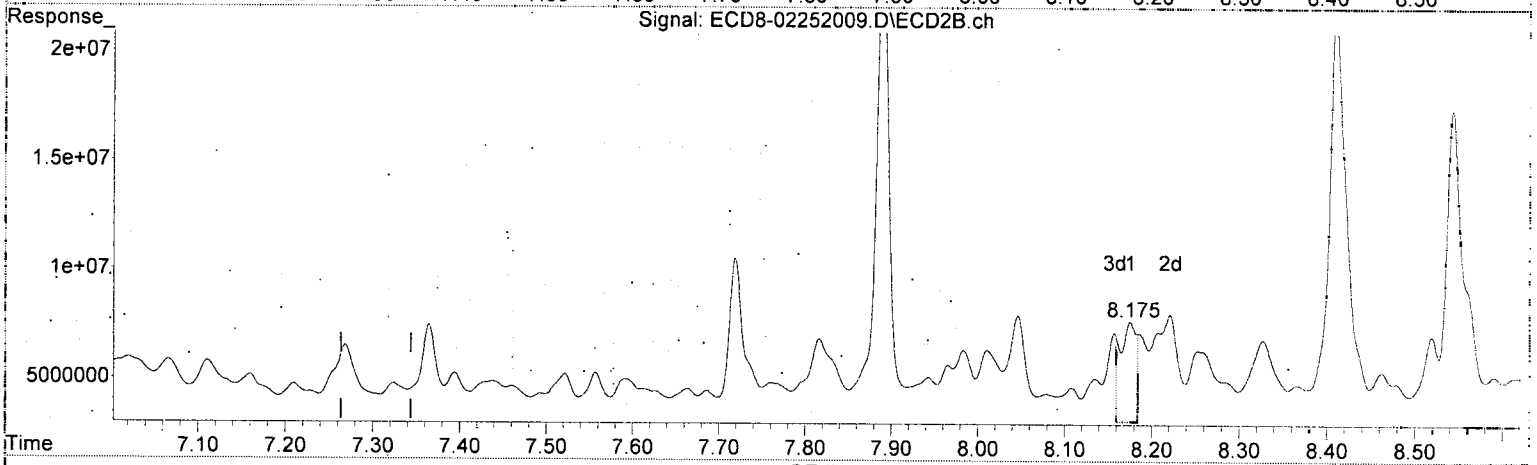
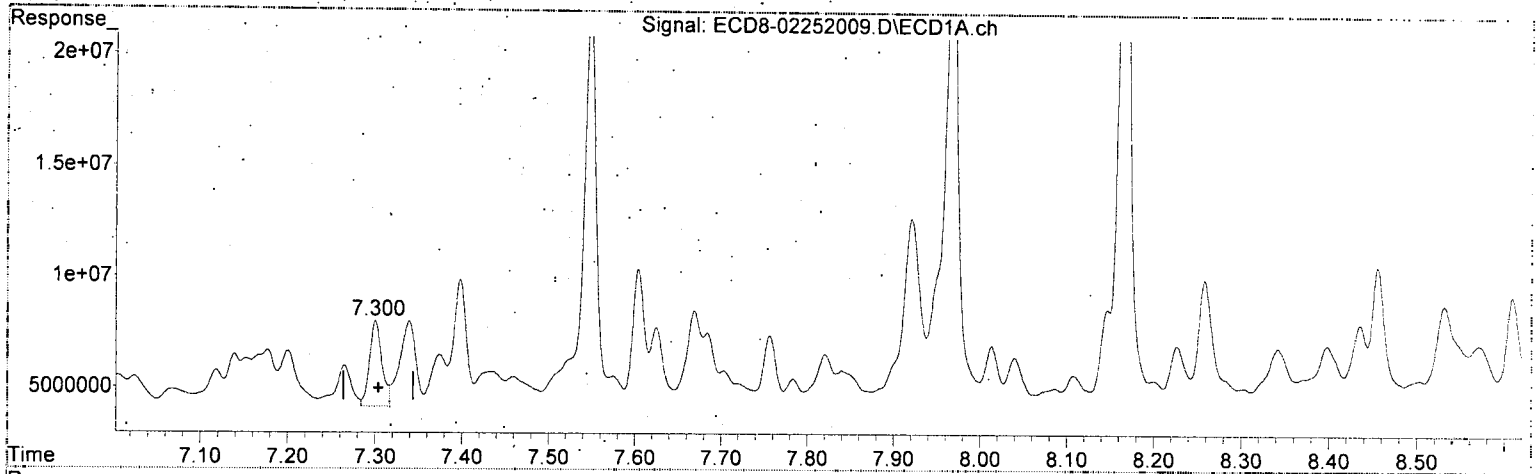
MJB
 2/26/20

(17) 4,4'-DDT #2
 9.052min 13.113 ng/mL(m)
 response 33260966

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



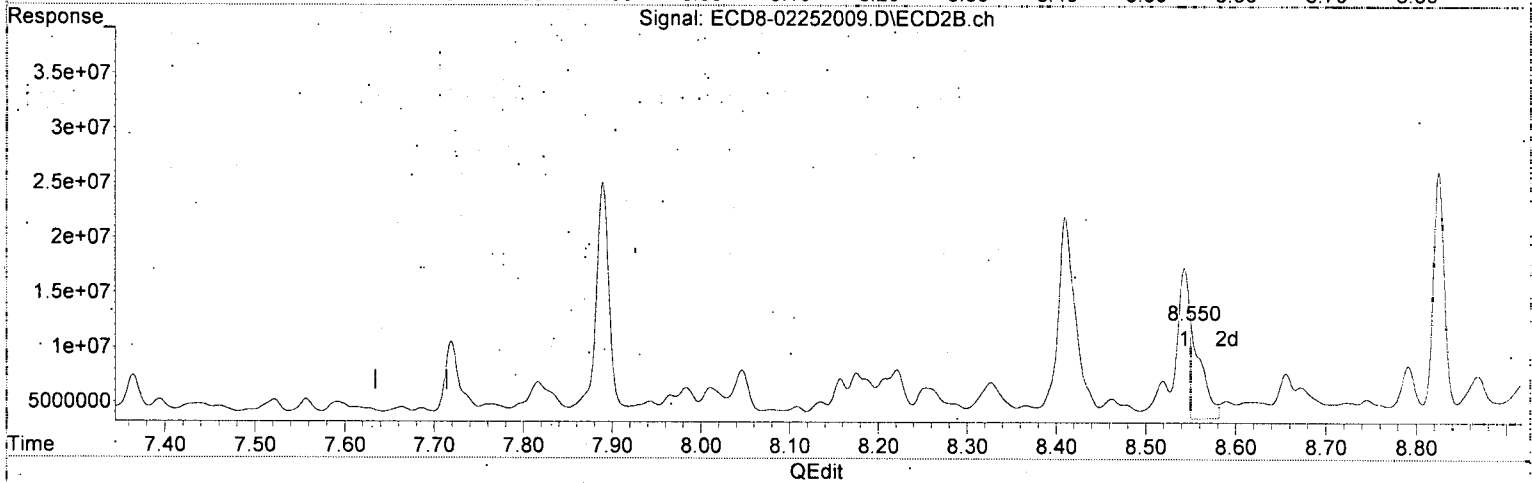
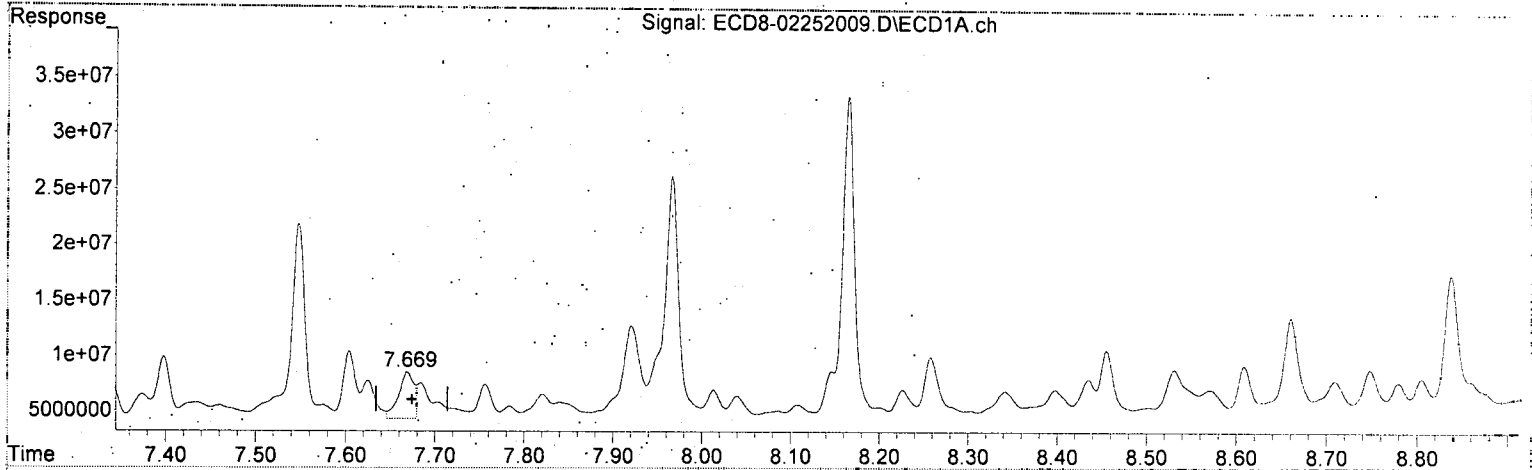
(26) 2,4'-DDE
7.300min 1.667 ng/mL *MJB 2/26/20*
response 3854376

(26) 2,4'-DDE #2
8.175min 2.039 ng/mL *P-91*
response 4633611

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(28) 2,4'-DDD

7.669min 2.164 ng/mL *R-02*
response 4191690

MJB
2/26/20

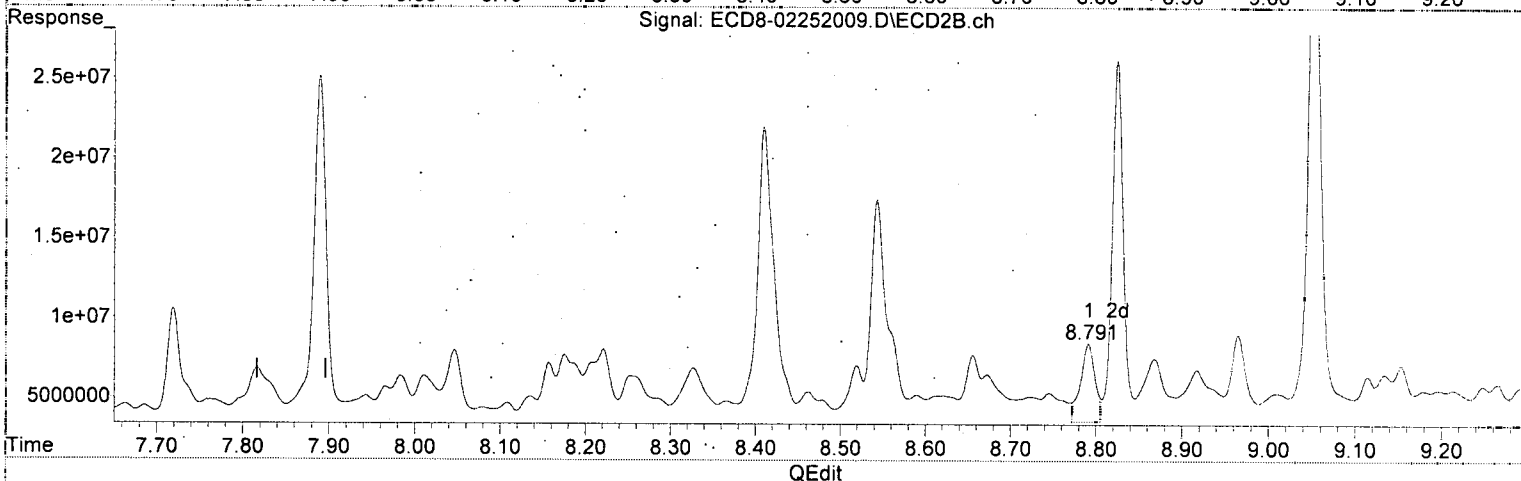
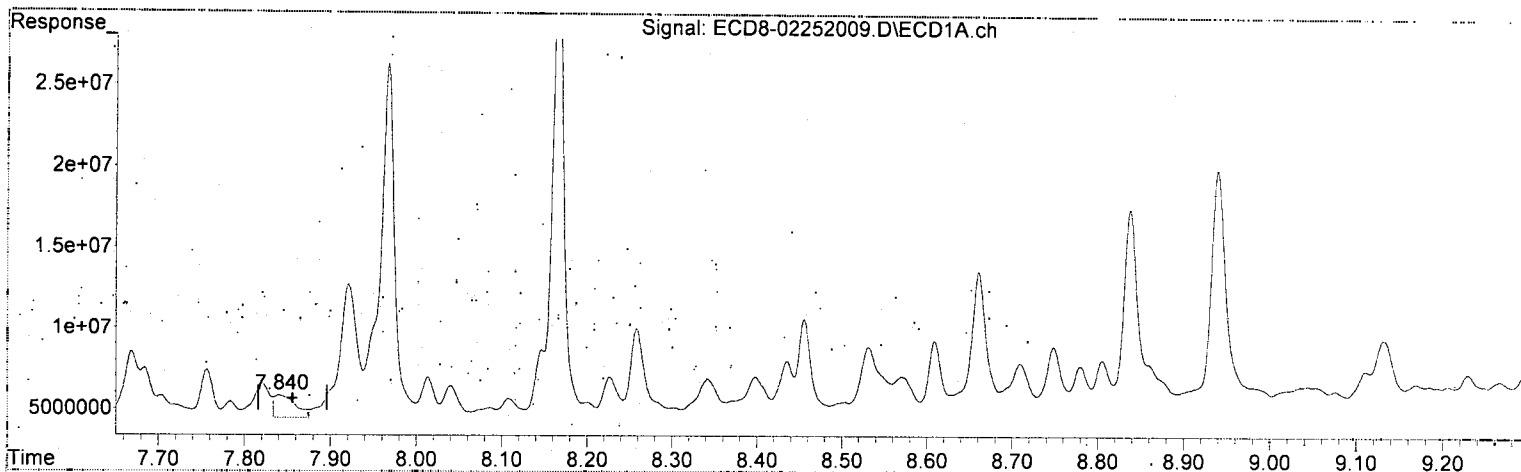
(28) 2,4'-DDD #2

8.550min 4.618 ng/mL *(m) P-01*
response 8839724

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(29) 2,4'-DDT
7.840min 0.599 ng/mL
response 1433577

MJB
2/26/20

(29) 2,4'-DDT #2
8.791min 2.251 ng/mL *(m) P-0'*
response 4915024

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 13:40
 Operator : MJB
 Sample : A0B0288-01RE1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:16:58 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

(MI)
 MJB
 2/26/20

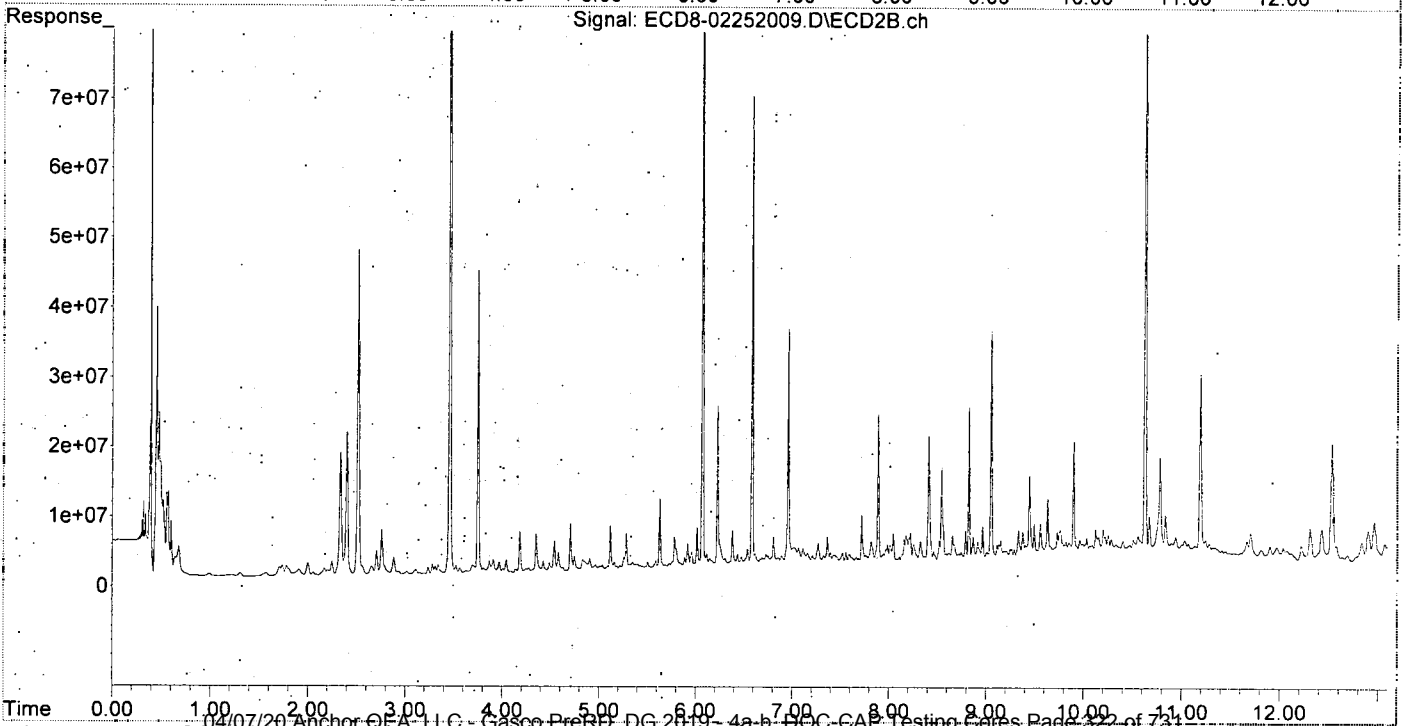
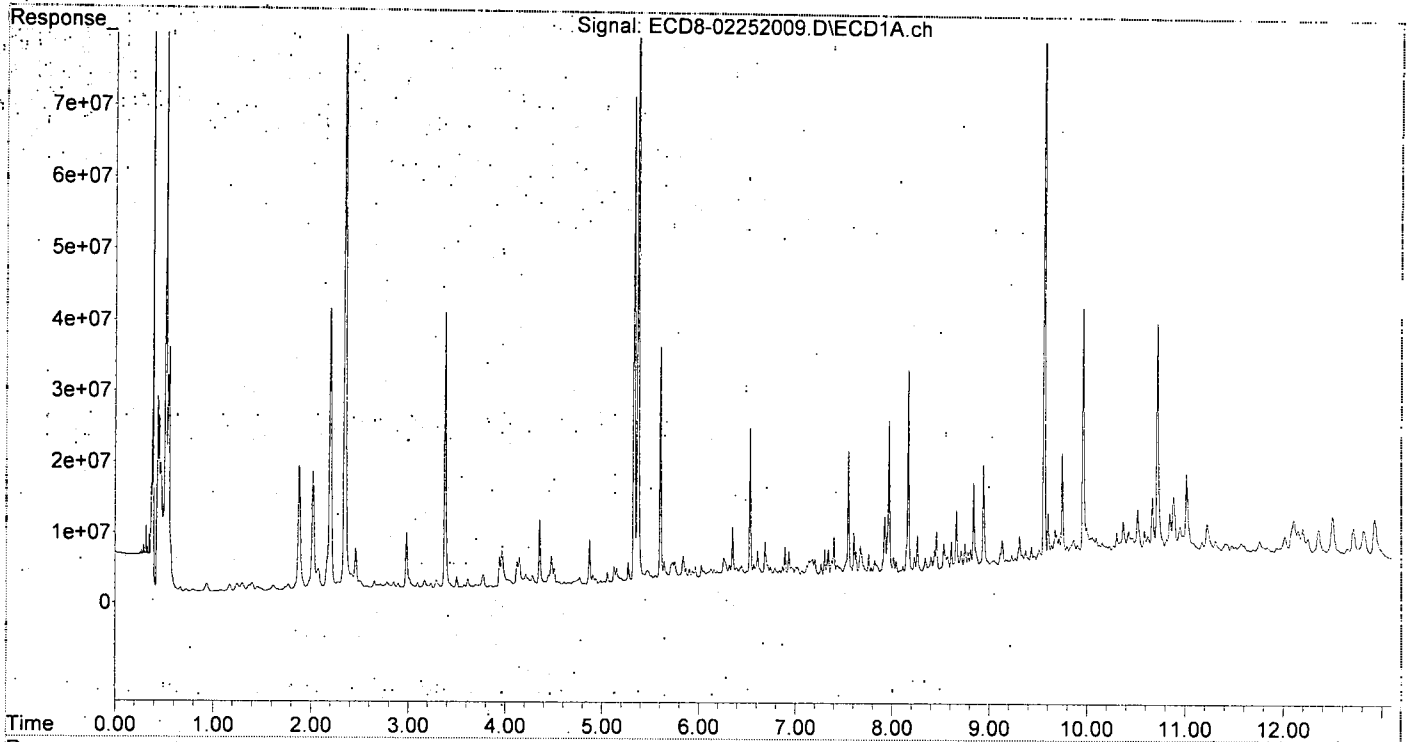
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.370	6.070	108.7E6	121.5E6	31.078	35.225
22) S DCBP (S)	9.560	10.627	123.8E6	99647744	47.124	46.556
Target Compounds						
2) a-BHC	5.902	6.668	1742339	2917974	0.369	0.759 #
3) g-BHC	6.190	6.958f	1286060	35959007	0.309	9.127 #
4) b-BHC	6.259	7.067	3183689	4539720	1.828	2.615 #
5) Heptachlor	6.608	7.365	4035487	6183703	0.982	1.469 #
6) d-BHC	6.429	7.324	1613091	3460111	0.573	1.084 #
7) Aldrin	6.838	7.612	1036165	3227780	0.256	0.874 #
8) Heptachlo...	7.300	8.046	3854376	6682221	1.044	1.861 #
9) trans-Chl...	7.398	8.221	5695263	6755845	1.514	1.817 #
10) cis-Chlor...	7.460f	8.327	1280762	5583878	0.349	1.585 #
11) Endosulfa...	7.575	8.366	1268418	3495423	0.366	1.058 #
12) 4,4'-DDE	7.548	8.410	17612475	20692602	5.304	6.652 #
13) Dieldrin	7.756	8.543	3035346	16172357	0.796	4.622 #
14) Endrin	7.921	8.791	8272027	7170906	2.535	2.480 #
15) 4,4'-DDD	7.967	8.825	21835449	24926610	8.580	10.433 #
16) Endosulfa...	8.087	8.918	545942	5554193	0.182	2.069 #
17) 4,4'-DDT	8.165	9.053	28950394	35866533	10.769	14.107 #
18) Endrin Al...	8.342	9.179	2244718	4234297	0.853	1.602 #
19) Endosulfa...	8.661	9.378	8802419	6951438	3.075	2.681 #
20) Methoxychlor	8.503	9.560f	744839	8297683	0.617	7.334 #
21) Endrin Ke...	8.838	9.764	12637588	7276171	3.656	2.350 #
23) Hexachlor...	3.167	8.806f	1148609	1444390	0.295	0.298 #
24) Hexachlor...	5.750	6.539	2837516	4355034	0.844	1.460 #
25) Oxychlordan...	7.200f	7.984	2543522	5077936	0.649	1.588 #
26) 2,4'-DDE	7.300	8.176	3854376	6431056	1.667	2.829 #
27) trans-Non...	7.460f	8.254	1280762	5094945	0.349	1.412 #
28) 2,4'-DDD	7.669	8.543f	4191690	16172357	2.164	8.448 #
29) 2,4'-DDT	7.840	8.791	1433577	7170906	0.599	3.300 #
30) cis-Nonac...	7.967	8.825	21835449	24926610	5.366	6.255 #
31) Mirex	8.609	9.764	4488495	7276171	1.647	3.259 #
32) Chlordane...	7.398	8.221	5695263	6755845	14.221	15.549 #
33) Chlordane...	7.460f	8.327	1280762	5583878	2.634	15.359 #
34) Chlordane...	8.040	8.965	1922889	7748561	14.769	65.248 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.548f	8.590	17612475	3912899	1075.938	132.780 #
37) Toxaphene...	7.784	8.918	1075506	5554193	34.235	138.202 #
38) Toxaphene...	8.108	8.965	1093201	7748561	12.371	119.768 #
39) Toxaphene...	8.342	9.009	2244718	4055345	27.657	37.882 #
40) Toxaphene...	8.571	9.196	2289644	4284429	42.243	74.734 #
41) Toxaphene...	8.661	9.560	8802419	8297683	115.739	125.620 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 13:40
Operator : MJB
Sample : A0B0288-01RE1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:16:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 14:17
 Operator : MJB
 Sample : 0020430-DUP1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:02 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

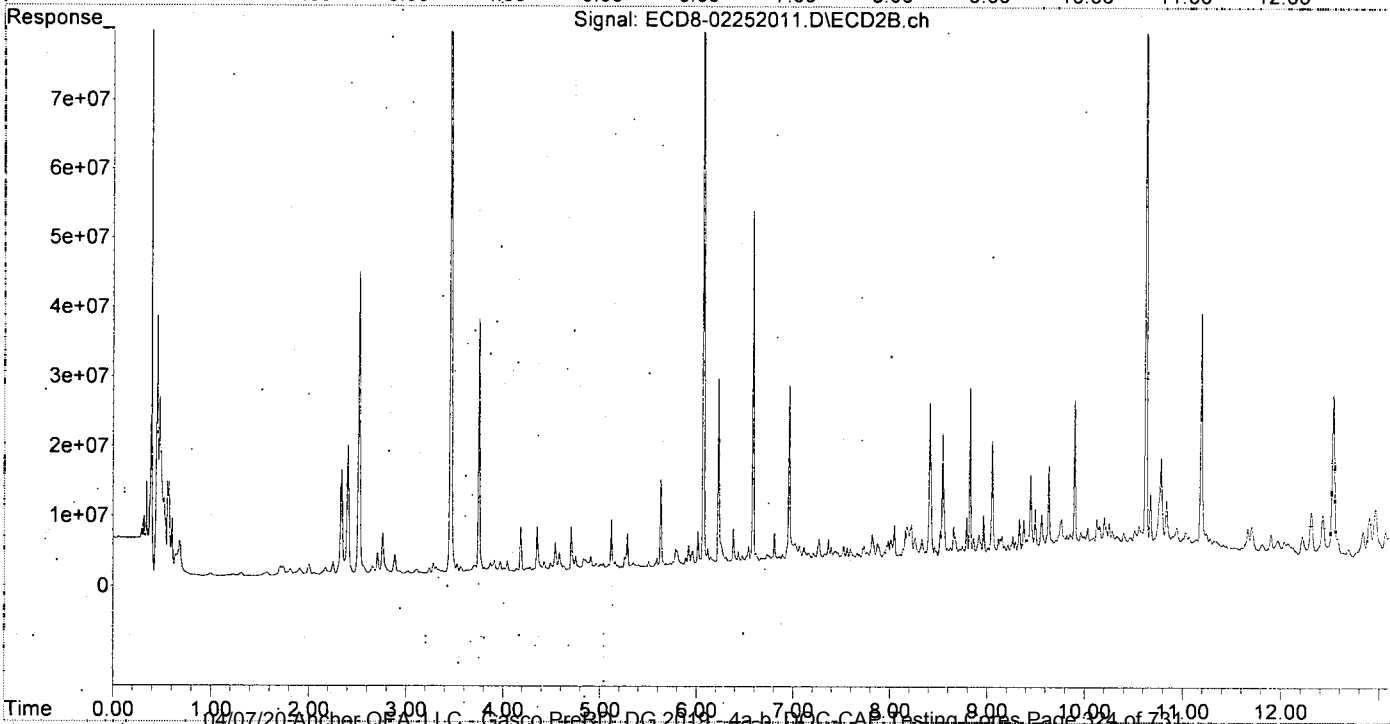
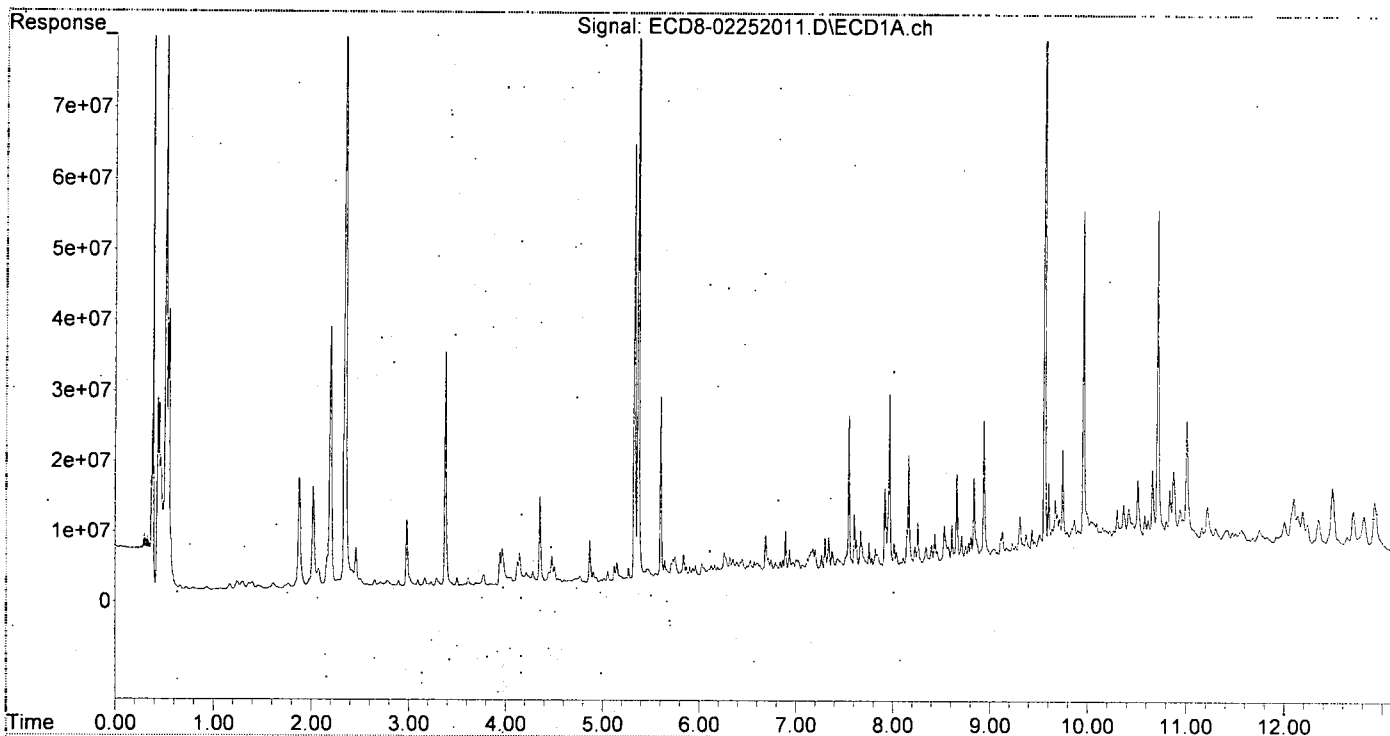
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368	6.070	108.2E6	123.0E6	30.961	35.653
22) S DCBP (S)	9.559	10.625	125.5E6	106.7E6	47.751	49.720
Target Compounds						
2) a-BHC	5.900	6.668	1683372	2713094	0.356	0.711 #
3) g-BHC	6.188	6.958f	1469969	27362687	0.353	6.978 #
4) b-BHC	6.257	7.066	3437635	4429776	1.974	2.552 #
5) Heptachlor	6.594	7.365	1752772	5397095	0.426	1.282 #
6) d-BHC	6.427	7.325f	1978373	3349003	0.679	1.052 #
7) Aldrin	6.838	7.595f	1803509	3979087	0.446	1.074 #
8) Heptachlo...	7.299	8.047	4961484	7368464	1.344	2.053 #
9) trans-Chl...	7.372	8.207	3088835	6756590	0.821	1.817 #
10) cis-Chlor...	7.457f	8.329	1625932	5452327	0.443	1.548 #
11) Endosulfa...	7.602f	8.367	8241606	3674252	2.376	1.112 #
12) 4,4'-DDE	7.547	8.410	22296088	24817483	6.714	7.940
13) Dieldrin	7.755	8.543	4115723	20689588	1.079	5.893 #
14) Endrin	7.919	8.791	11603848	8474928	3.555	2.930
15) 4,4'-DDD	7.965	8.824	25197597	27060013	9.901	11.296
16) Endosulfa...	8.074	8.917	1009446	6030304	0.337	2.249 #
17) 4,4'-DDT	8.163	9.053	16275591	19486941	6.054	7.776 #
18) Endrin Al...	8.369	9.178	1506551	4445345	0.572	1.681 #
19) Endosulfa...	8.659	9.377	13300628	8172567	4.647	3.164 #
20) Methoxychlor	8.530f	9.561f	6015247	8898397	4.985	7.881 #
21) Endrin Ke...	8.859	9.763	3926362	8182689	1.136	2.669 #
23) Hexachlor...	3.166	3.750f	1212654	36908428	0.311	7.623 #
24) Hexachlor...	5.749	6.538	3194300	4383246	0.950	1.470 #
25) Oxychlorane	7.199f	7.984	3325353	5159585	0.903	1.613 #
26) 2,4'-DDE	7.299	8.207	4961484	6756590	2.146 ²⁰²	2.973 # ²⁰¹
27) trans-Non...	7.457f	8.261	1625932	5615102	0.443	1.556 #
28) 2,4'-DDD	7.667	8.557	5774143	9334108	2.981 ²⁰²	4.876m ²⁰¹
29) 2,4'-DDT	7.840	8.791	2324672	8474928	0.971	3.904 # ²⁰¹
30) cis-Nonac...	7.965	8.824	25197597	27060013	6.192	6.790
31) Mirex	8.607	9.763	6094918	8182689	2.311	3.696 #
32) Chlordane...	7.430f	8.207	1925496	6756590	4.808	15.551 #
33) Chlordane...	7.457f	8.329	1625932	5452327	3.343	14.997 #
34) Chlordane...	8.038	8.965	2510762	8788674	19.284	74.006 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.547f	8.591	22296088	4246002	1362.058	144.084 #
37) Toxaphene...	7.819	8.917	3150505	6030304	100.285	150.049 #
38) Toxaphene...	8.106	8.965	1667818	8788674	20.537	135.845 #
39) Toxaphene...	8.342	9.009	3054832	4176678	40.138	39.137
40) Toxaphene...	8.571	9.216	2953666	4609953	54.493	80.412 #
41) Toxaphene...	8.659	9.561	13300628	8898397	174.884	134.714
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 14:17
 Operator : MJB
 Sample : 0020430-DUP1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 Sample Multiplier: 1

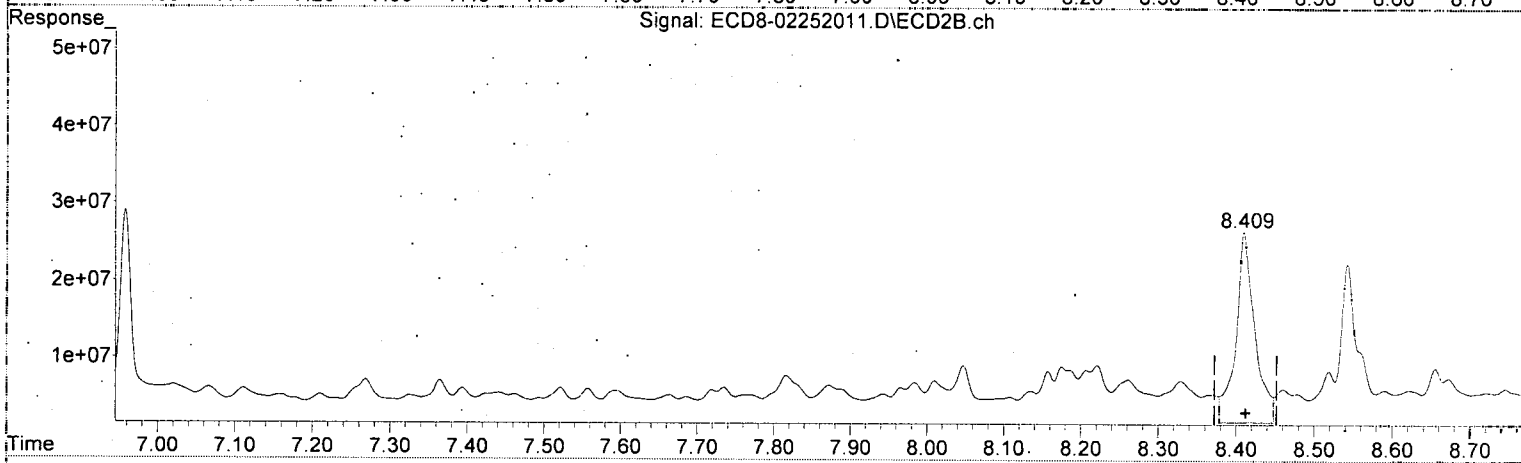
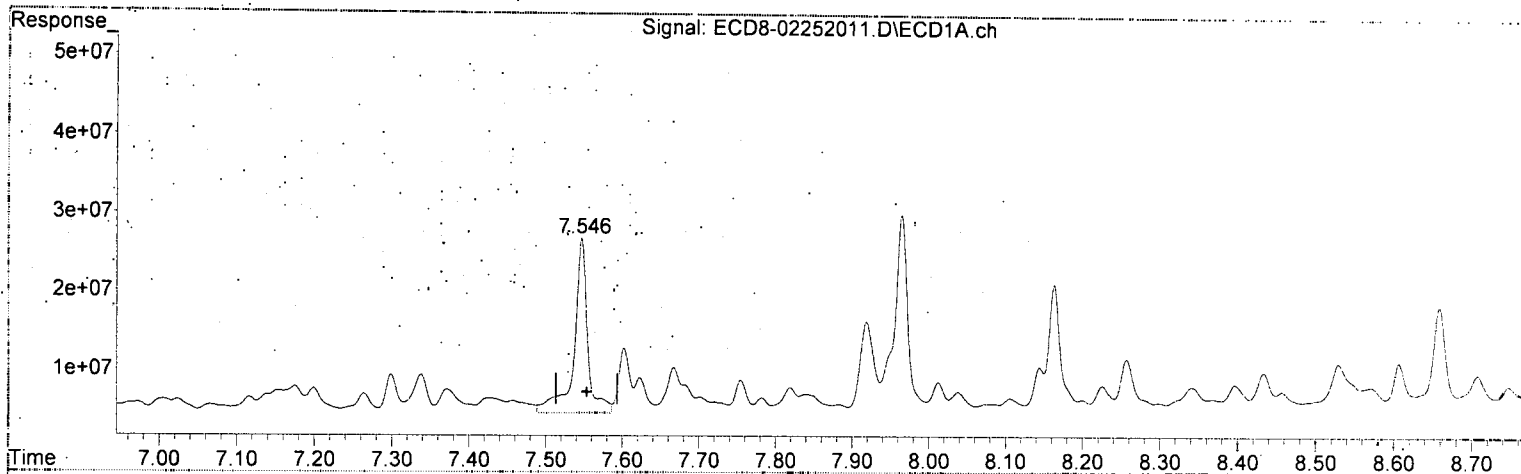
Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:02 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 14:17
Operator : MJB
Sample : 0020430-DUP1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(12) 4,4'-DDE
7.547min 6.714 ng/mL
response 22296088

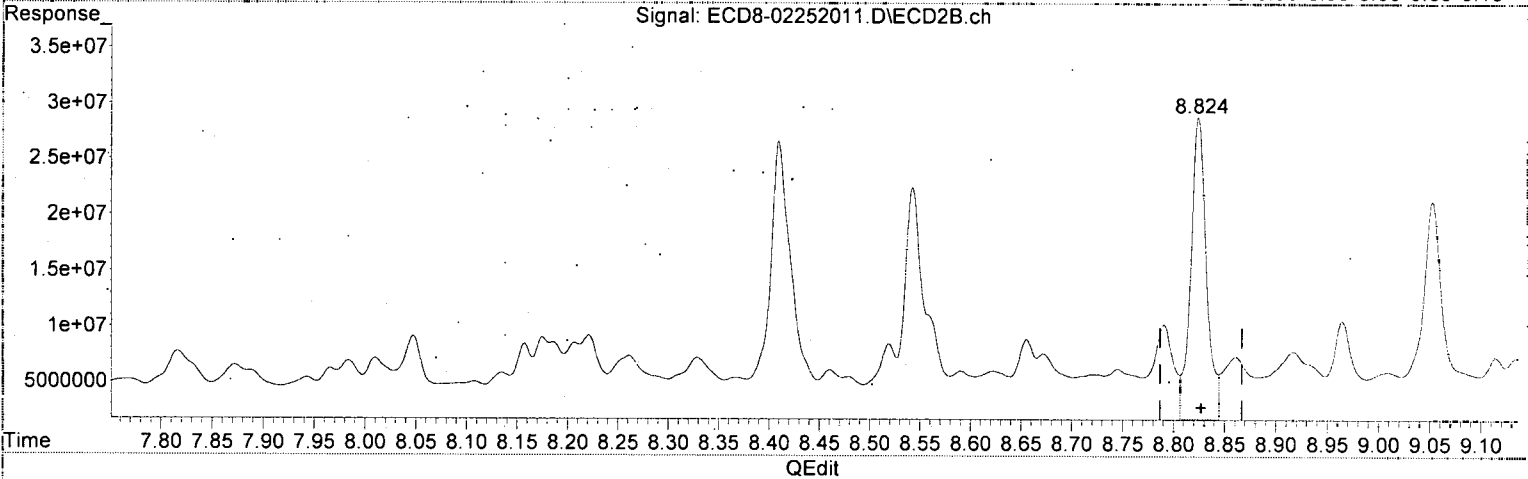
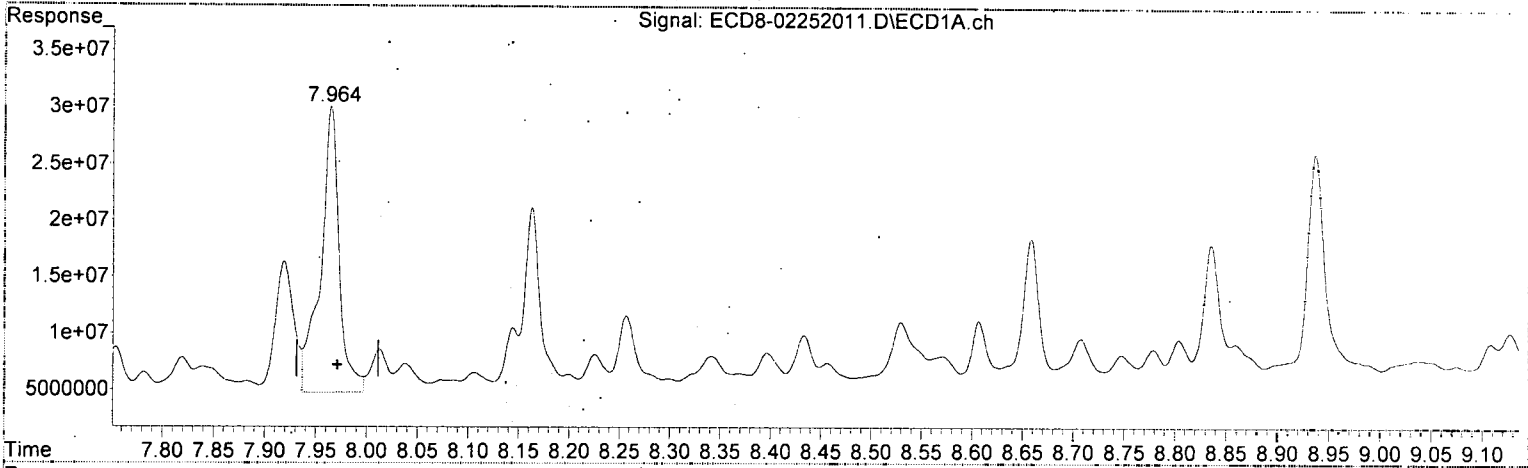
*MJB
2/26/20*

(12) 4,4'-DDE #2
8.410min 7.940 ng/mL
response 24817483

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 14:17
Operator : MJB
Sample : 0020430-DUP1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(15) 4,4'-DDD
7.965min 9.901 ng/mL
response 25197597

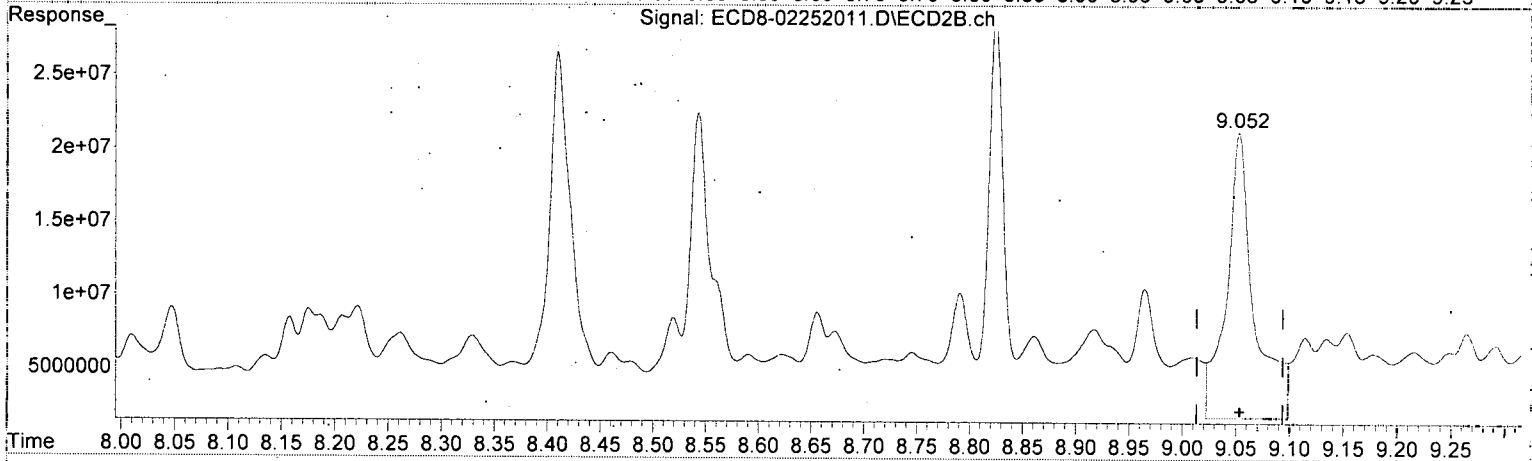
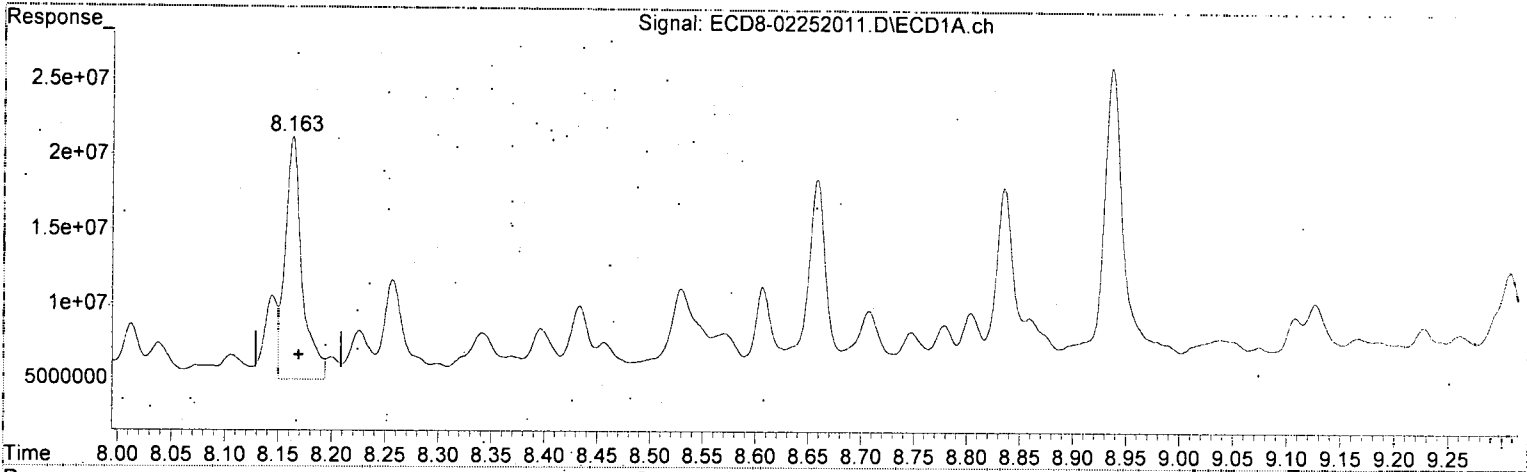
MJB
2/26/20

(15) 4,4'-DDD #2
8.824min 11.296 ng/mL
response 27060013

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 14:17
 Operator : MJB
 Sample : 0020430-DUP1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:02 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



(17) 4,4'-DDT
 8.163min 6.054 ng/mL
 response 16275591

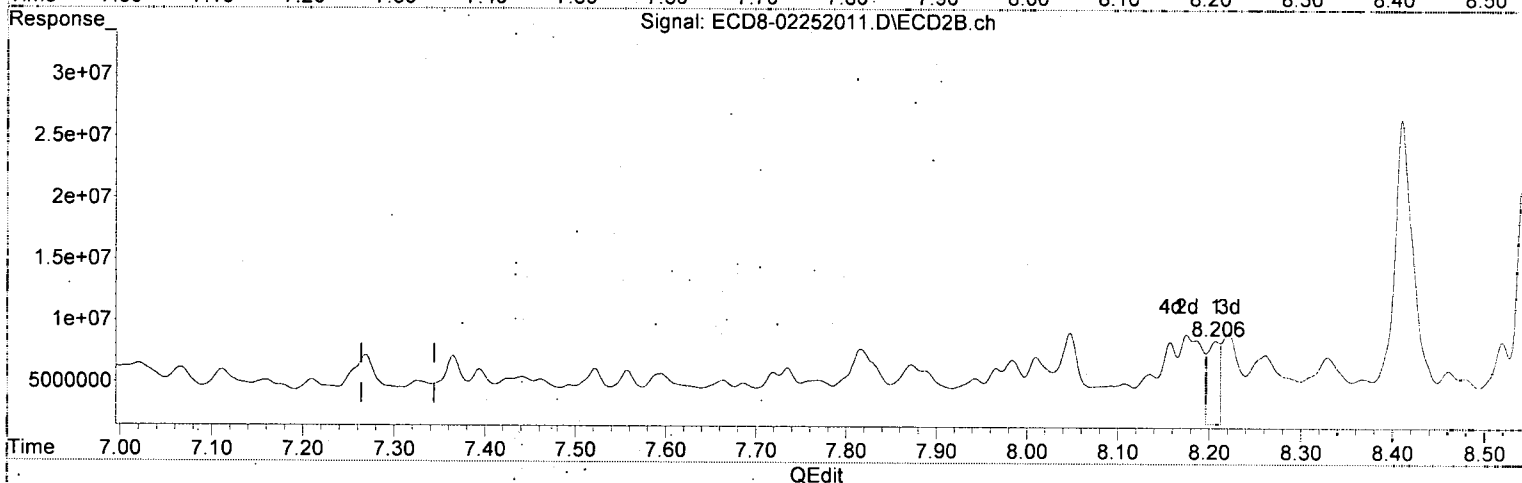
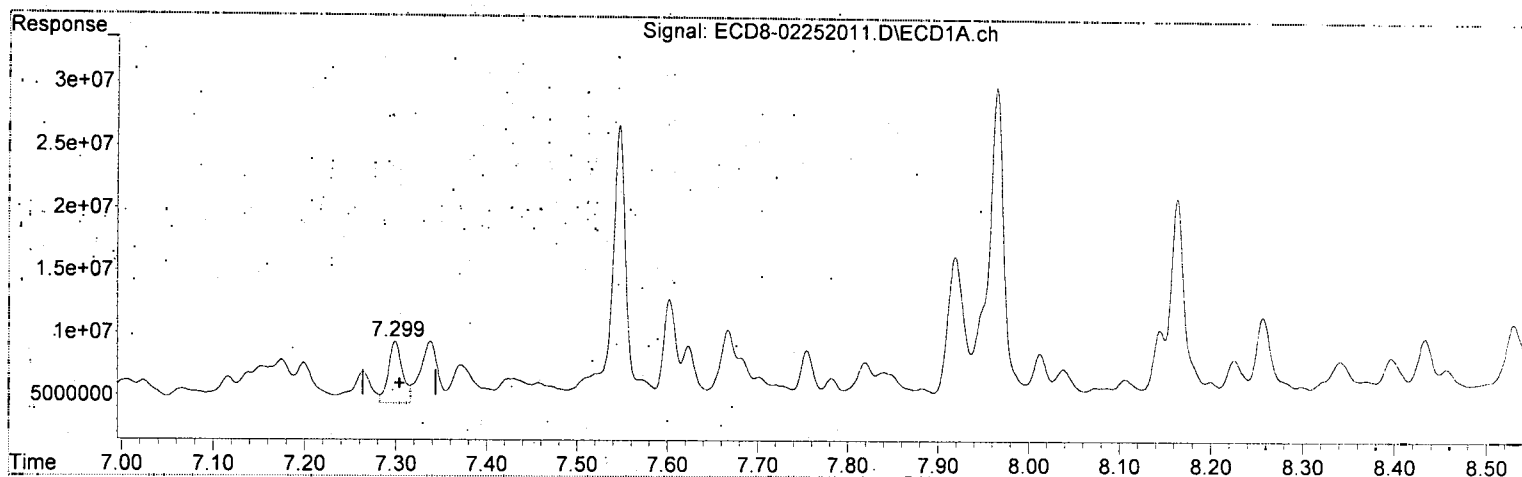
MJB
 2/26/20

(17) 4,4'-DDT #2
 9.053min 7.776 ng/mL
 response 19486941

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 14:17
Operator : MJB
Sample : 0020430-DUP1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(26) 2,4'-DDE
7.299min 2.146 ng/mL *P-02*
response 4961484

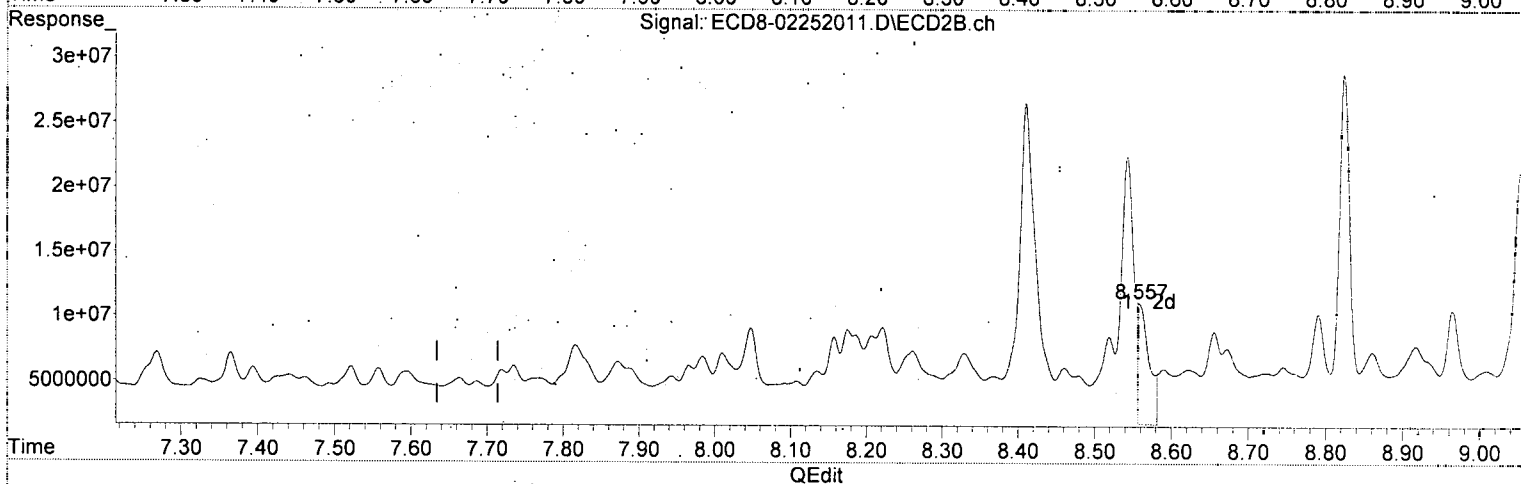
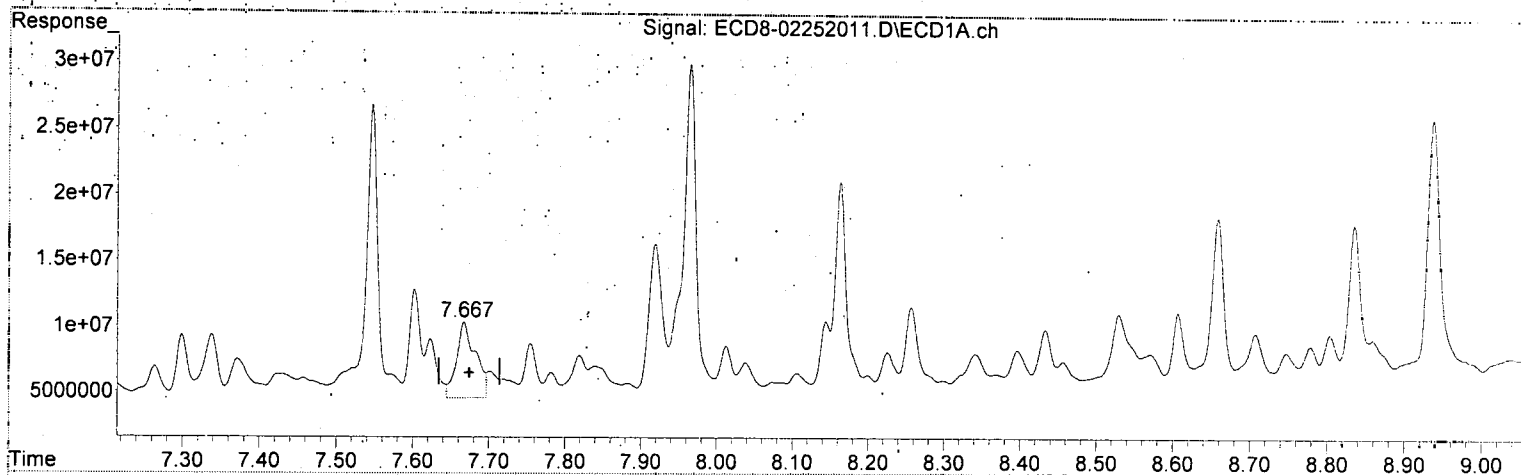
MJB
2/26/20

(26) 2,4'-DDE #2
8.207min 2.973 ng/mL *P-01*
response 6756590

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 14:17
 Operator : MJB
 Sample : 0020430-DUP1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:02 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



(28) 2,4'-DDD
 7.667min 2.981 ng/mL *R-02*
 response 5774143

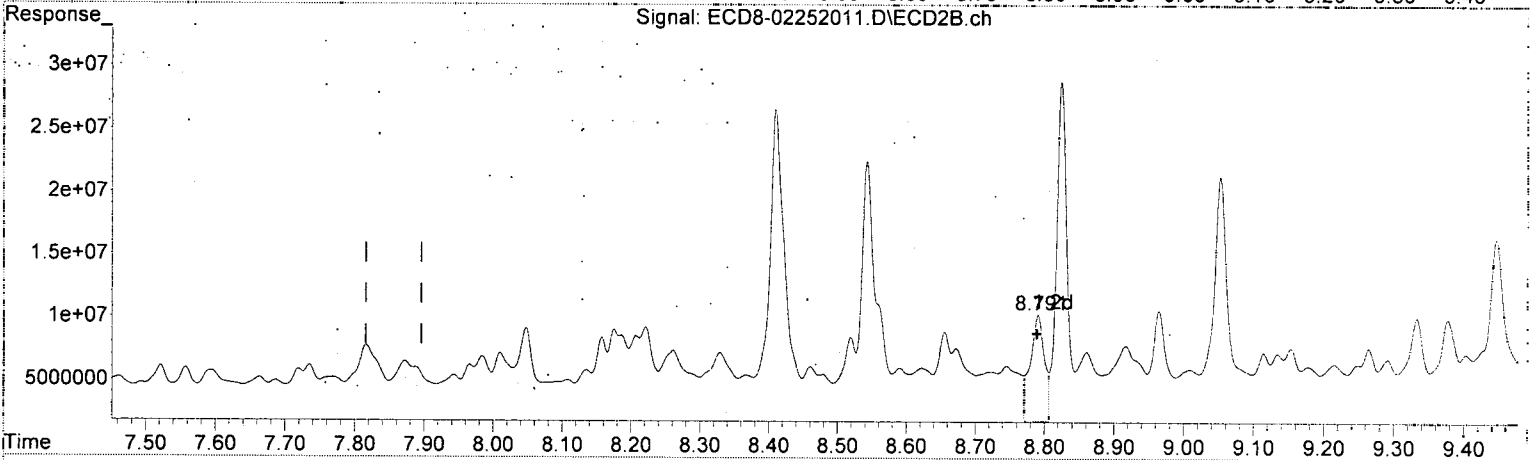
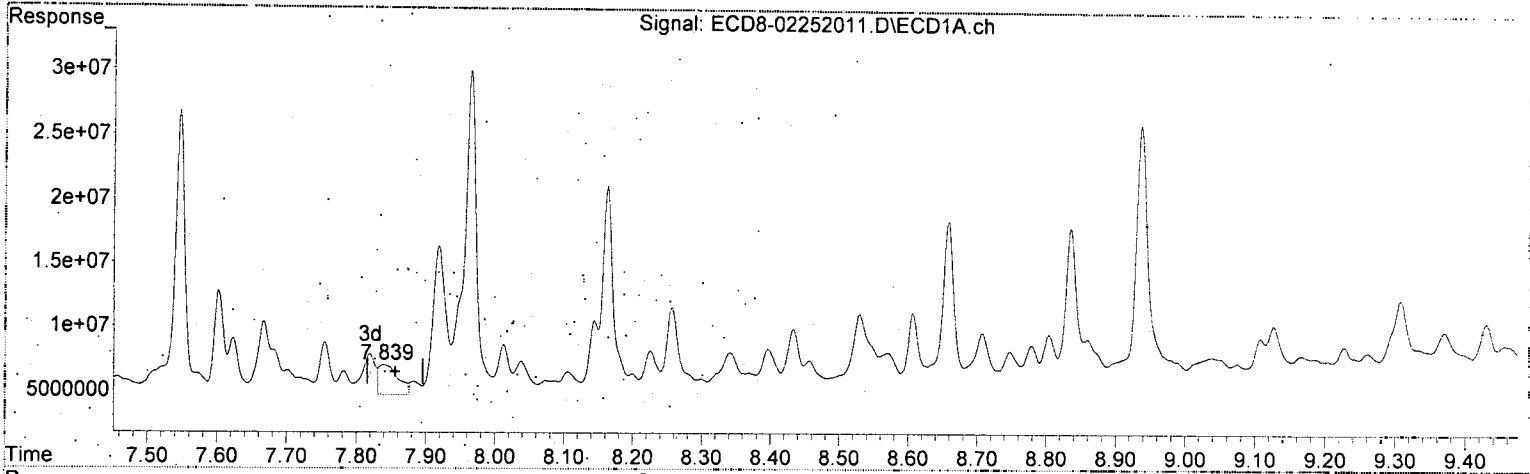
MJB
2/26/20

(28) 2,4'-DDD #2
 8.557min 4.876 ng/mL *(m) R-01*
 response 9334108

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 14:17
Operator : MJB
Sample : 0020430-DUP1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

(29) 2,4'-DDT
7.840min 0.971 ng/mL
response 2324672

MJB
2/26/20

(29) 2,4'-DDT #2
8.791min 3.904 ng/mL P-01
response 8474928

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 14:17
 Operator : MJB
 Sample : 0020430-DUP1
 Misc : 1x, 8081B 2,4+4,4-DDX Only, GPC
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:02 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

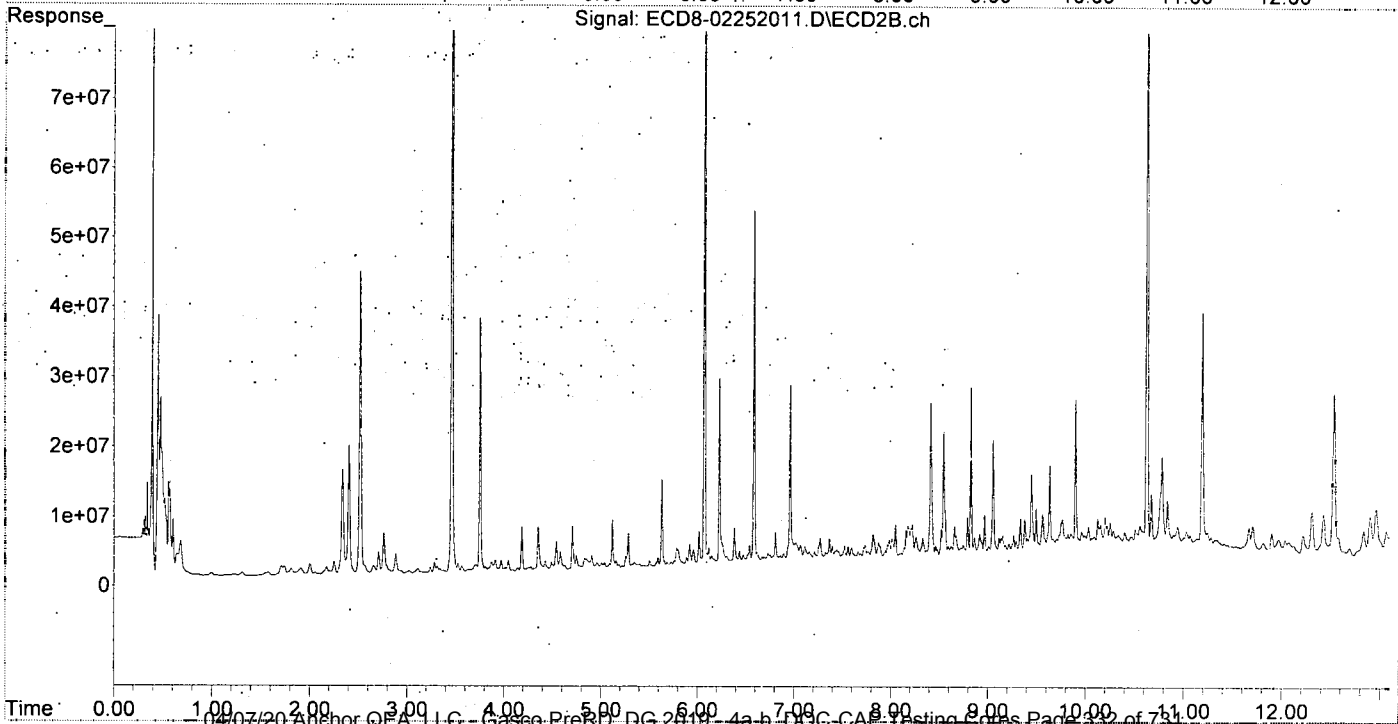
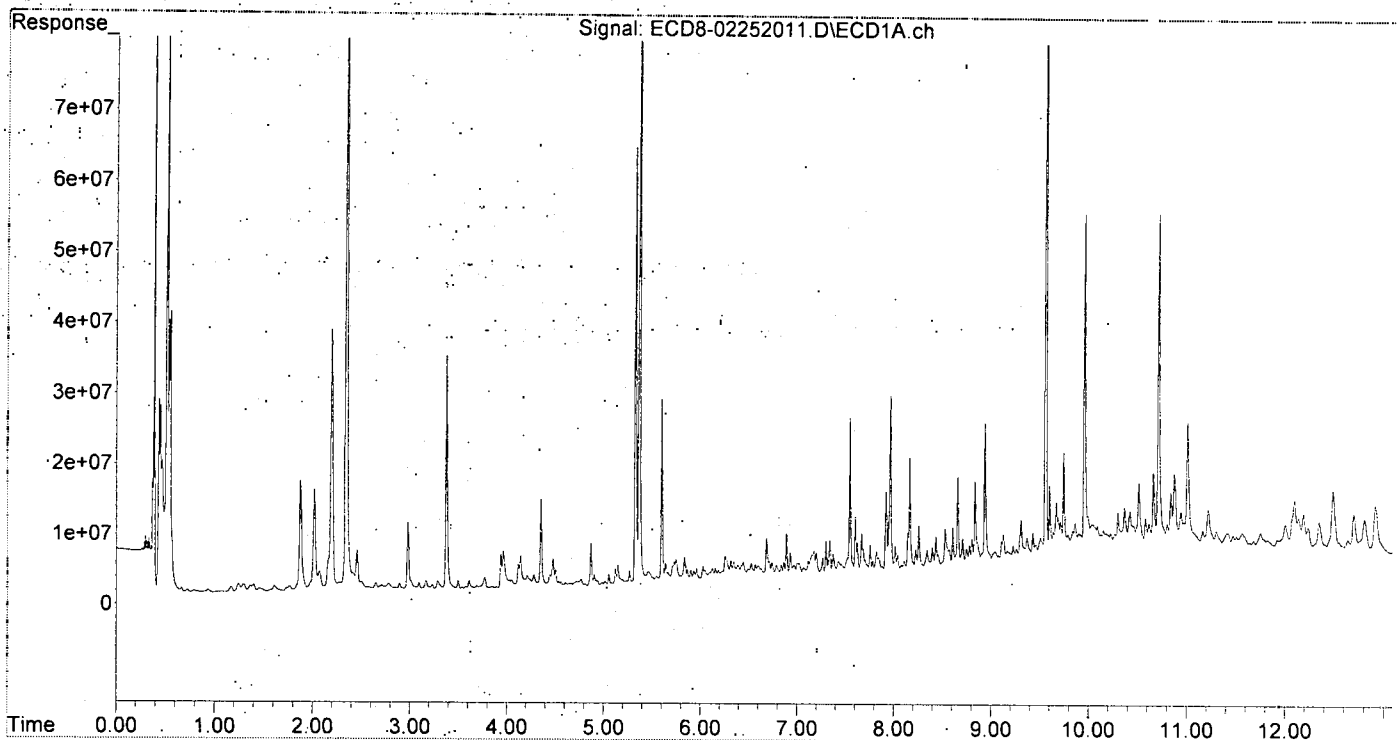
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368	6.070	108.2E6	123.0E6	30.961	35.653
22) S DCBP (S)	9.559	10.625	125.5E6	106.7E6	47.751	49.720
Target Compounds						
2) a-BHC	5.900	6.668	1683372	2713094	0.356	0.711 #
3) g-BHC	6.188	6.958f	1469969	27362687	0.353	6.978 #
4) b-BHC	6.257	7.066	3437635	4429776	1.974	2.552 #
5) Heptachlor	6.594	7.365	1752772	5397095	0.426	1.282 #
6) d-BHC	6.427	7.325f	1978373	3349003	0.679	1.052 #
7) Aldrin	6.838	7.595f	1803509	3979087	0.446	1.074 #
8) Heptachlo...	7.299	8.047	4961484	7368464	1.344	2.053 #
9) trans-Chl...	7.372	8.207	3088835	6756590	0.821	1.817 #
10) cis-Chlor...	7.457f	8.329	1625932	5452327	0.443	1.548 #
11) Endosulfa...	7.602f	8.367	8241606	3674252	2.376	1.112 #
12) 4,4'-DDE	7.547	8.410	22296088	24817483	6.714	7.940
13) Dieldrin	7.755	8.543	4115723	20689588	1.079	5.893 #
14) Endrin	7.919	8.791	11603848	8474928	3.555	2.930
15) 4,4'-DDD	7.965	8.824	25197597	27060013	9.901	11.296
16) Endosulfa...	8.074	8.917	1009446	6030304	0.337	2.249 #
17) 4,4'-DDT	8.163	9.053	16275591	19486941	6.054	7.776 #
18) Endrin Al...	8.369	9.178	1506551	4445345	0.572	1.681 #
19) Endosulfa...	8.659	9.377	13300628	8172567	4.647	3.164 #
20) Methoxychlor	8.530f	9.561f	6015247	8898397	4.985	7.881 #
21) Endrin Ke...	8.859	9.763	3926362	8182689	1.136	2.669 #
23) Hexachlor...	3.166	3.750f	1212654	36908428	0.311	7.623 #
24) Hexachlor...	5.749	6.538	3194300	4383246	0.950	1.470 #
25) Oxychlorane	7.199f	7.984	3325353	5159585	0.903	1.613 #
26) 2,4'-DDE	7.299	8.207	4961484	6756590	2.146	2.973 #
27) trans-Non...	7.457f	8.261	1625932	5615102	0.443	1.556 #
28) 2,4'-DDD	7.667	8.543f	5774143	20689588	2.981	10.808 #
29) 2,4'-DDT	7.840	8.791	2324672	8474928	0.971	3.904 #
30) cis-Nonac...	7.965	8.824	25197597	27060013	6.192	6.790
31) Mirex	8.607	9.763	6094918	8182689	2.311	3.696 #
32) Chlordane...	7.430f	8.207	1925496	6756590	4.808	15.551 #
33) Chlordane...	7.457f	8.329	1625932	5452327	3.343	14.997 #
34) Chlordane...	8.038	8.965	2510762	8788674	19.284	74.006 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.547f	8.591	22296088	4246002	1362.058	144.084 #
37) Toxaphene...	7.819	8.917	3150505	6030304	100.285	150.049 #
38) Toxaphene...	8.106	8.965	1667818	8788674	20.537	135.845 #
39) Toxaphene...	8.342	9.009	3054832	4176678	40.138	39.137
40) Toxaphene...	8.571	9.216	2953666	4609953	54.493	80.412 #
41) Toxaphene...	8.659	9.561	13300628	8898397	174.884	134.714
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 14:17
Operator : MJB
Sample : 0020430-DUP1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 14:54
 Operator : MJB
 Sample : 0020430-MS1
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:06 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

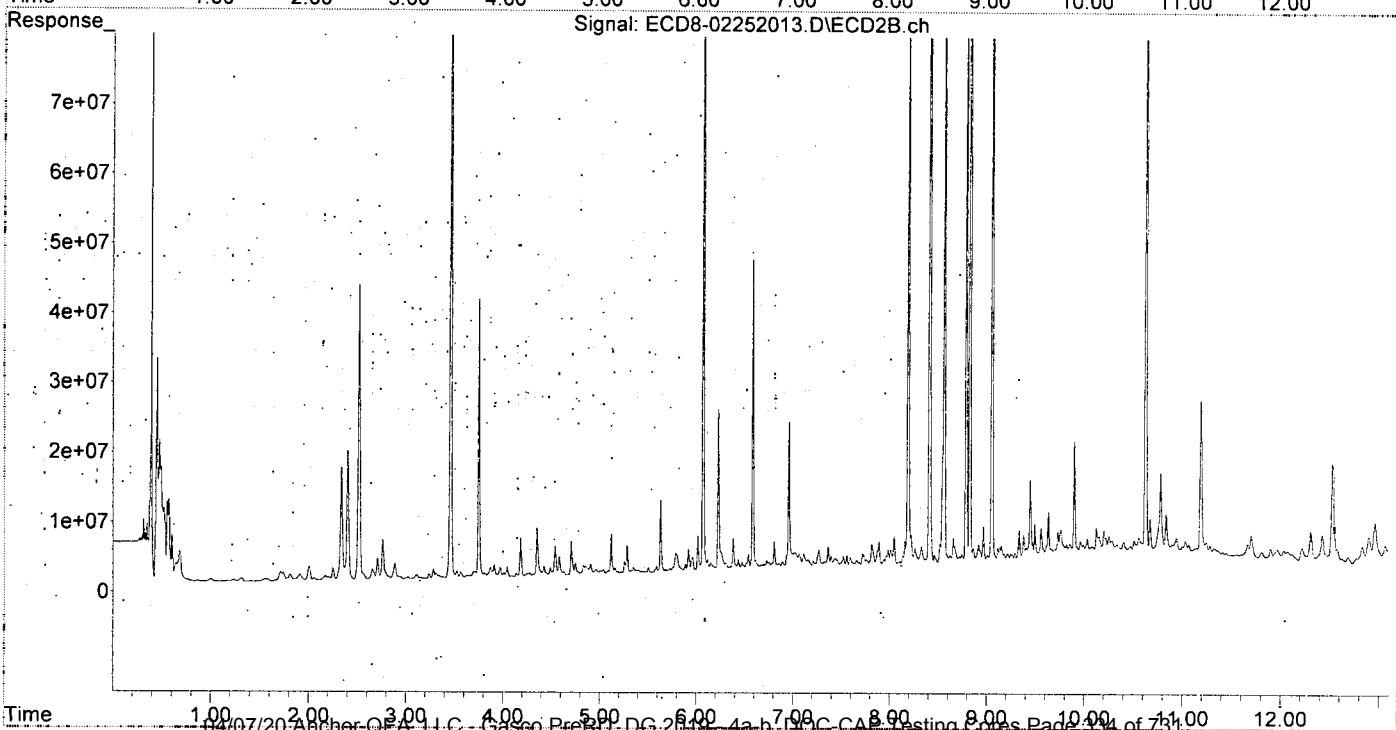
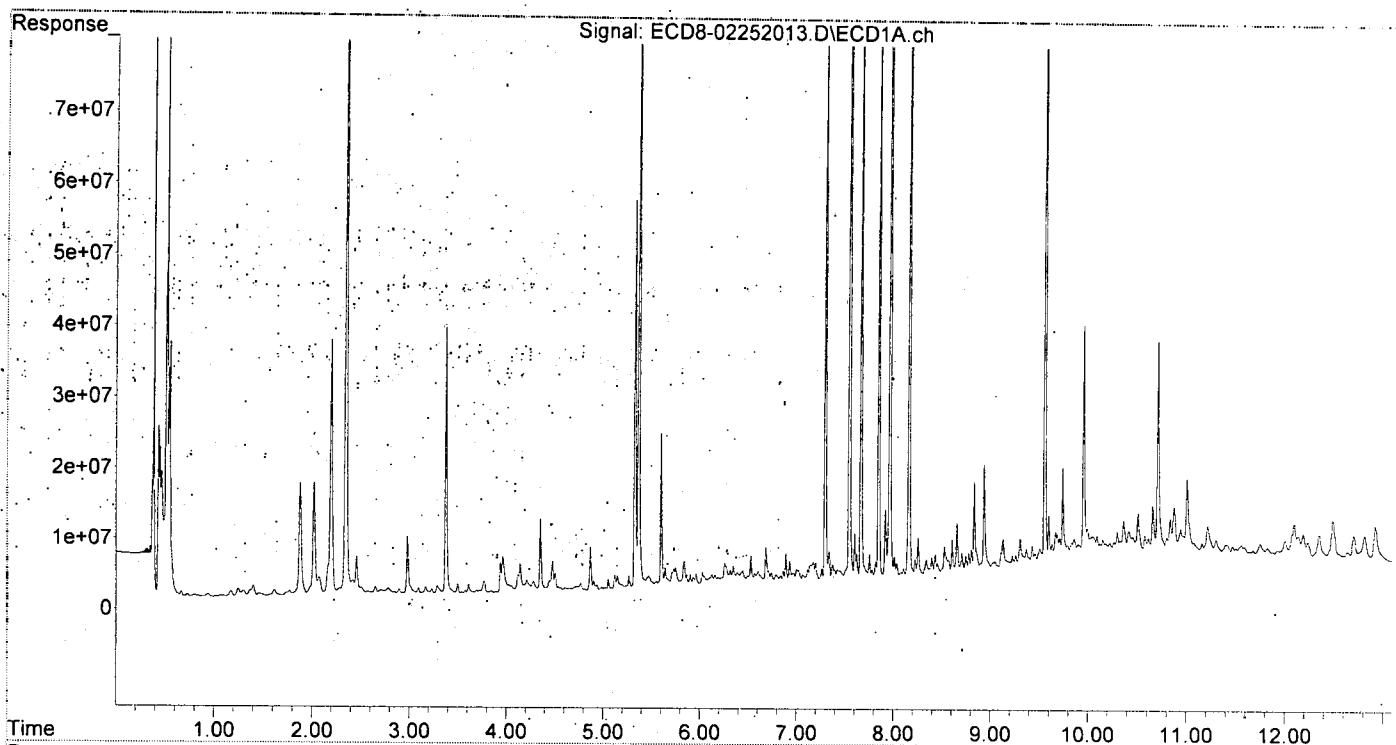
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368	6.070	109.5E6	123.7E6	31.332	35.854
22) S DCBP (S)	9.558	10.625	133.1E6	109.3E6	50.585	50.873
Target Compounds						
2) a-BHC	5.900	6.668	1660680	1229224	0.351	0.364
3) g-BHC	6.188	7.014f	1206944	2837870	0.290	0.768 #
4) b-BHC	6.258	7.065	3111567	2629188	1.787	1.514
5) Heptachlor	6.606	7.365	1838137	3601775	0.447	0.855 #
6) d-BHC	6.426	7.324	1694801	1498801	0.597	0.525
7) Aldrin	6.837	7.594f	1056957	1990748	0.262	0.544 #
8) Heptachlo...	7.297	8.046	111.5E6	4946345	30.207	1.378 #
9) trans-Chl...	7.395	8.189	1558247	113.7E6	0.414	30.583 #
10) cis-Chlor...	7.456f	8.327	1441441	3417075	0.393	0.970 #
11) Endosulfa...	7.602f	8.363	6674498	1665110	1.924	0.504 #
12) 4,4'-DDE	7.546	8.409	194.7E6	208.7E6	58.619 ^{RT}	59.895
13) Dieldrin	7.754	8.561	3643553	108.5E6	0.955	29.735 #
14) Endrin	7.918	8.786	9915517	109.4E6	3.038	35.985 #
15) 4,4'-DDD	7.965	8.824	175.4E6	179.9E6	68.919 ^{RT}	65.552
16) Endosulfa...	8.082	8.916	894002	3537768	0.299	1.309 #
17) 4,4'-DDT	8.163	9.052	138.8E6	148.8E6	51.622 ^{RT}	53.367
18) Endrin Al...	8.369	9.176	1270737	2150604	0.483	0.813 #
19) Endosulfa...	8.657	9.377	7638550	4842074	2.669	1.843 #
20) Methoxychlor	8.529	9.524	4336195	2327471	3.594	1.818 #
21) Endrin Ke...	8.835	9.763	13352465	5541602	3.863	1.739 #
23) Hexachlor...	3.166	3.750f	959976	40174041	0.246	8.297 #
24) Hexachlor...	5.749	6.539	2743241	2702625	0.816	0.886
25) Oxychlorane	7.199f	7.983	2737835	3009213	0.712	0.941 #
26) 2,4'-DDE	7.297	8.189	111.5E6	113.7E6	48.245 ^{MJB}	50.030
27) trans-Non...	7.456f	8.261	1441441	3151099	0.393 ^{MJB}	0.873 #
28) 2,4'-DDD	7.666	8.561	103.4E6	108.5E6	53.405 ^{MJB}	56.662
29) 2,4'-DDT	7.850	8.786	100.9E6	109.4E6	42.181 ^{RT}	47.121
30) cis-Nonac...	7.965	8.824	175.4E6	179.9E6	43.101	45.150
31) Mirex	8.606	9.763	5259649	5541602	1.966	2.423
32) Chlordane...	7.395	8.220	1558247	5152051	3.891	11.858 #
33) Chlordane...	0.000	8.327	0	3417075	N.D.	9.399 #
34) Chlordane...	8.036	8.964	2169345	6097605	16.662	51.346 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.546f	8.561	194.7E6	108.5E6	11891.879	3680.688 #
37) Toxaphene...	7.819	8.916	2558462	3537768	81.440	88.028
38) Toxaphene...	8.106	8.964	1385008	6097605	16.518	94.249 #
39) Toxaphene...	8.340	9.009	2533671	1984642	32.109	16.435 #
40) Toxaphene...	8.566	9.212	2347427	2195938	43.309	38.304
41) Toxaphene...	8.657	9.559	7638550	5798126	100.436	87.779
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 14:54
Operator : MJB
Sample : 0020430-MS1
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 15:32
 Operator : MJB
 Sample : 0B25044-CCV3
 Misc : A19K134, AB 100 ppb
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:10 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

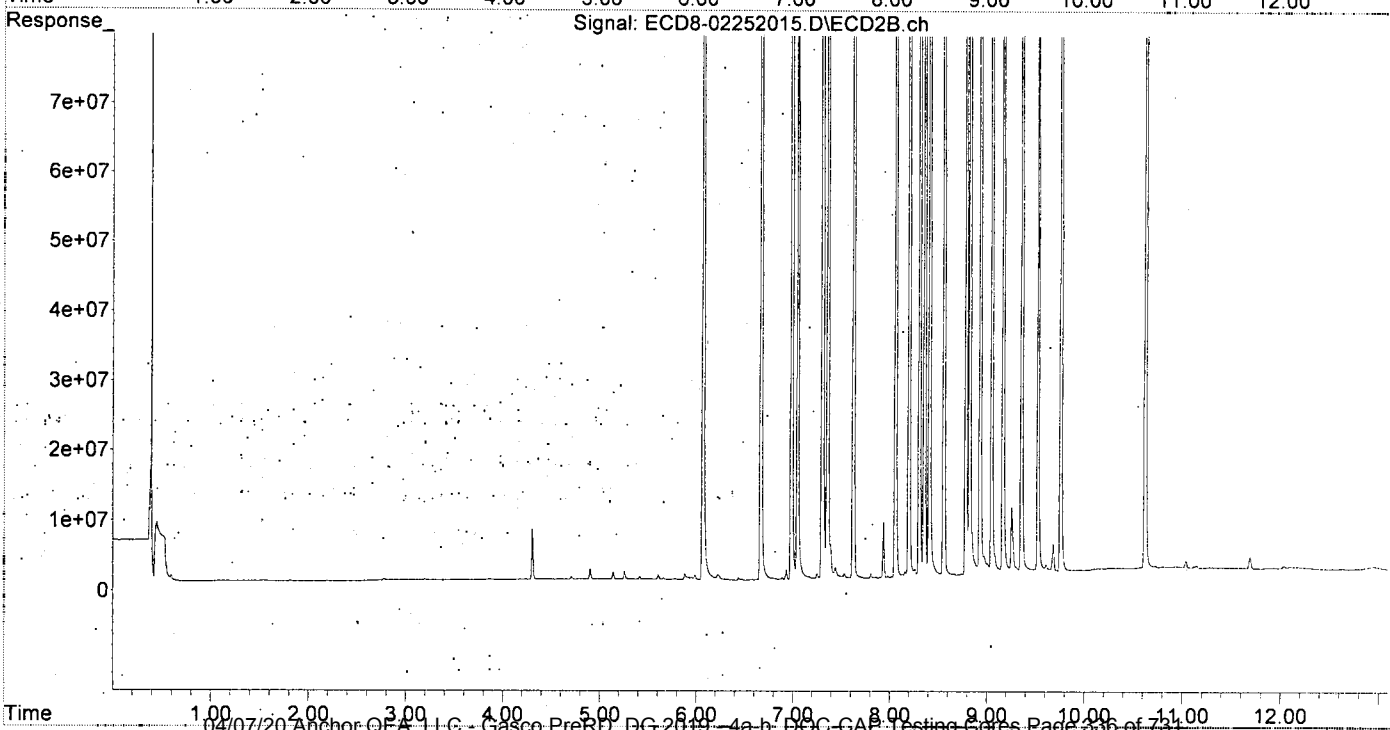
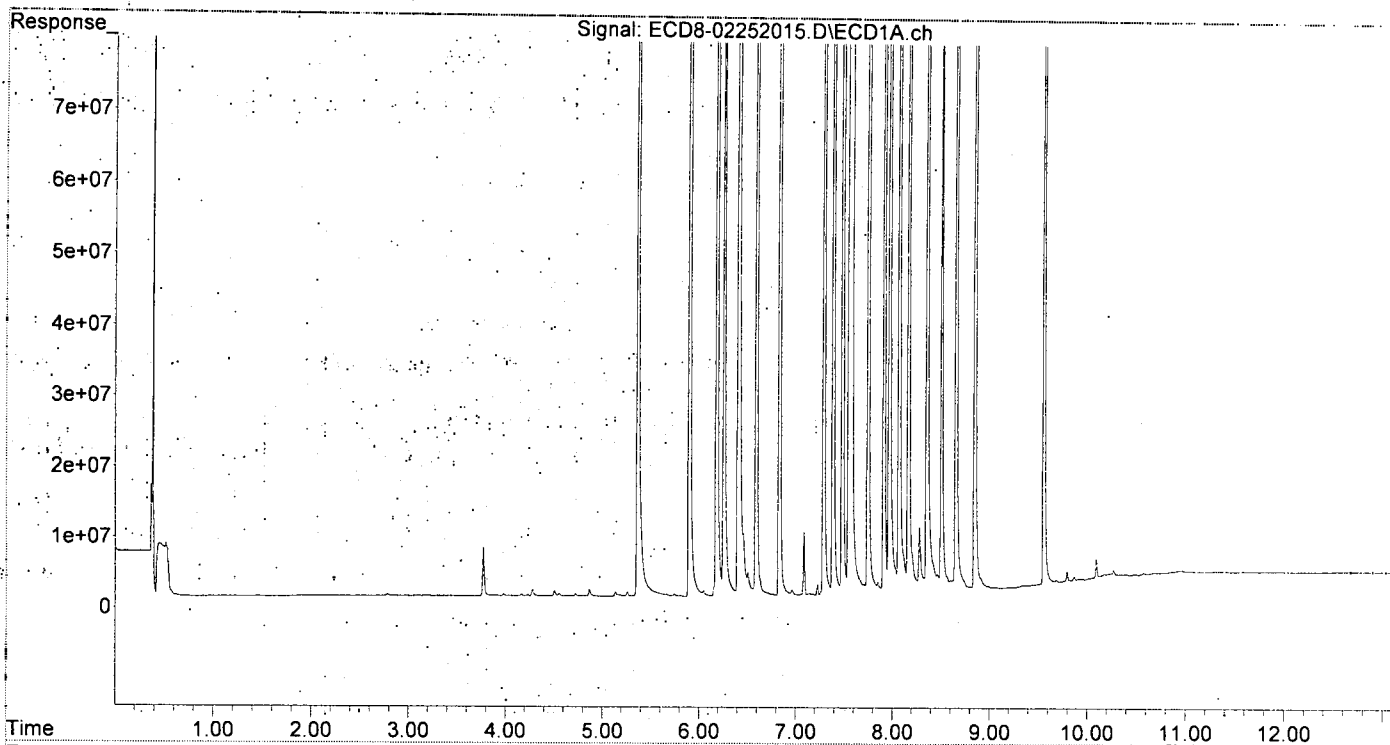
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368	6.070	287.2E6	346.4E6	82.134	100.424
22) S DCBP (S)	9.560	10.626	254.4E6	220.9E6	95.075	98.540
Target Compounds						
2) a-BHC	5.902	6.670	436.8E6	501.7E6	92.460	98.752
3) g-BHC	6.183	6.987	394.7E6	422.1E6	94.801	94.227
4) b-BHC	6.259	7.049	146.2E6	162.7E6	83.955	93.746
5) Heptachlor	6.594	7.360	390.7E6	417.5E6	95.052	99.153
6) d-BHC	6.408	7.304	308.4E6	388.5E6	81.225	92.903
7) Aldrin	6.834	7.627	380.7E6	391.3E6	94.231	92.024
8) Heptachlo...	7.291	8.062	343.3E6	372.0E6	92.956	103.635
9) trans-Chl...	7.387	8.201	349.2E6	369.5E6	92.863	99.369
10) cis-Chlor...	7.484	8.308	338.5E6	363.7E6	92.166	103.248
11) Endosulfa...	7.579	8.360	323.3E6	335.6E6	93.198	101.542
12) 4,4'-DDE	7.551	8.410	308.2E6	351.0E6	92.798	94.716
13) Dieldrin	7.750	8.559	364.3E6	376.8E6	95.536	94.641
14) Endrin	7.914	8.787	288.3E6	295.8E6	88.346	89.845
15) 4,4'-DDD	7.969	8.825	243.2E6	295.4E6	95.569	99.763
16) Endosulfa...	8.069	8.934	256.4E6	295.8E6	85.712	95.569
17) 4,4'-DDT	8.166	9.052	249.6E6	308.3E6	92.839	100.035
18) Endrin Al...	8.357	9.169	227.2E6	260.0E6	86.299	98.360
19) Endosulfa...	8.656	9.360	251.1E6	276.3E6	87.740	94.286
20) Methoxychlor	8.507	9.528	111.8E6	134.4E6	92.616	100.617
21) Endrin Ke...	8.850	9.762	316.8E6	339.2E6	91.659	101.253
23) Hexachlor...	3.170	3.779	54670	35300	0.014	0.007 #
24) Hexachlor...	5.749	6.548	401053	63155	0.119	BelowCal #
25) Oxychlordan	7.229	7.985	1563244	274075	0.329	0.086 #
26) 2,4'-DDE	7.291	8.201	343.3E6	369.5E6	148.467	162.557
27) trans-Non...	7.484	8.262	338.5E6	1234922	92.319	0.342 #
28) 2,4'-DDD	7.713f	8.559	1266849	376.8E6	0.654	196.828 #
29) 2,4'-DDT	7.852	8.787	1643663	295.8E6	0.687	114.093 #
30) cis-Nonac...	7.969f	8.825	243.2E6	295.4E6	59.768	74.127
31) Mirex	8.602	9.762	1394518	339.2E6	0.369	151.398 #
32) Chlordane...	7.387	8.201	349.2E6	369.5E6	871.994	850.438
33) Chlordane...	7.484	8.308	338.5E6	363.7E6	695.947	1000.427 #
34) Chlordane...	8.069f	8.974	256.4E6	2921332	1969.419	24.600 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.484f	8.559	338.5E6	376.8E6	20676.270	12785.815 #
37) Toxaphene...	0.000	8.934	0	295.8E6	N.D.	7361.156 #
38) Toxaphene...	0.000	8.974	0	2921332	N.D.	45.154 #
39) Toxaphene...	8.357	9.009	227.2E6	1845543	3376.956	14.991 #
40) Toxaphene...	8.566	9.169f	1996295	260.0E6	36.830	4535.831 #
41) Toxaphene...	8.656	9.611f	251.1E6	1541590	3301.960	23.338 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by >.25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 15:32
Operator : MJB
Sample : 0B25044-CCV3
Misc : A19K134, AB 100 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:10 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 15:49
 Operator : MJB
 Sample : 0B25044-CCV4
 Misc : A19J409, 9-42 100 ppb
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:14 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

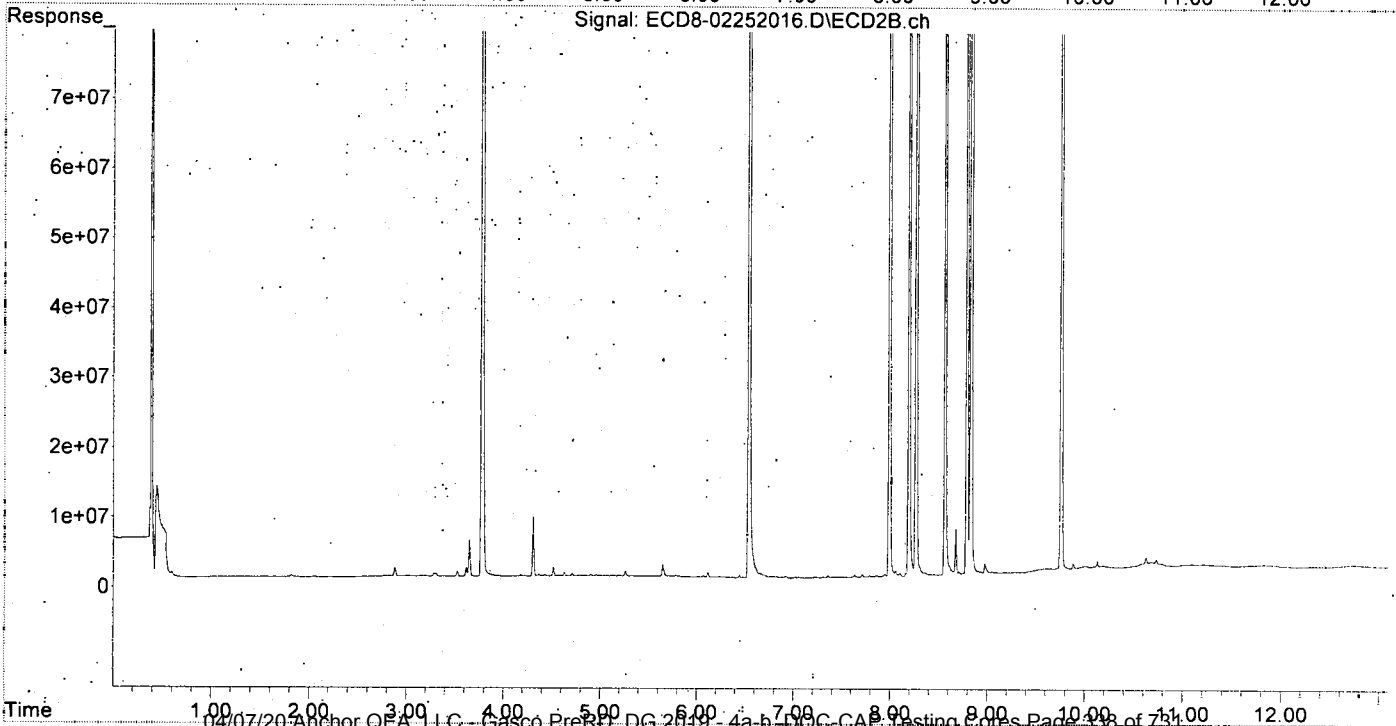
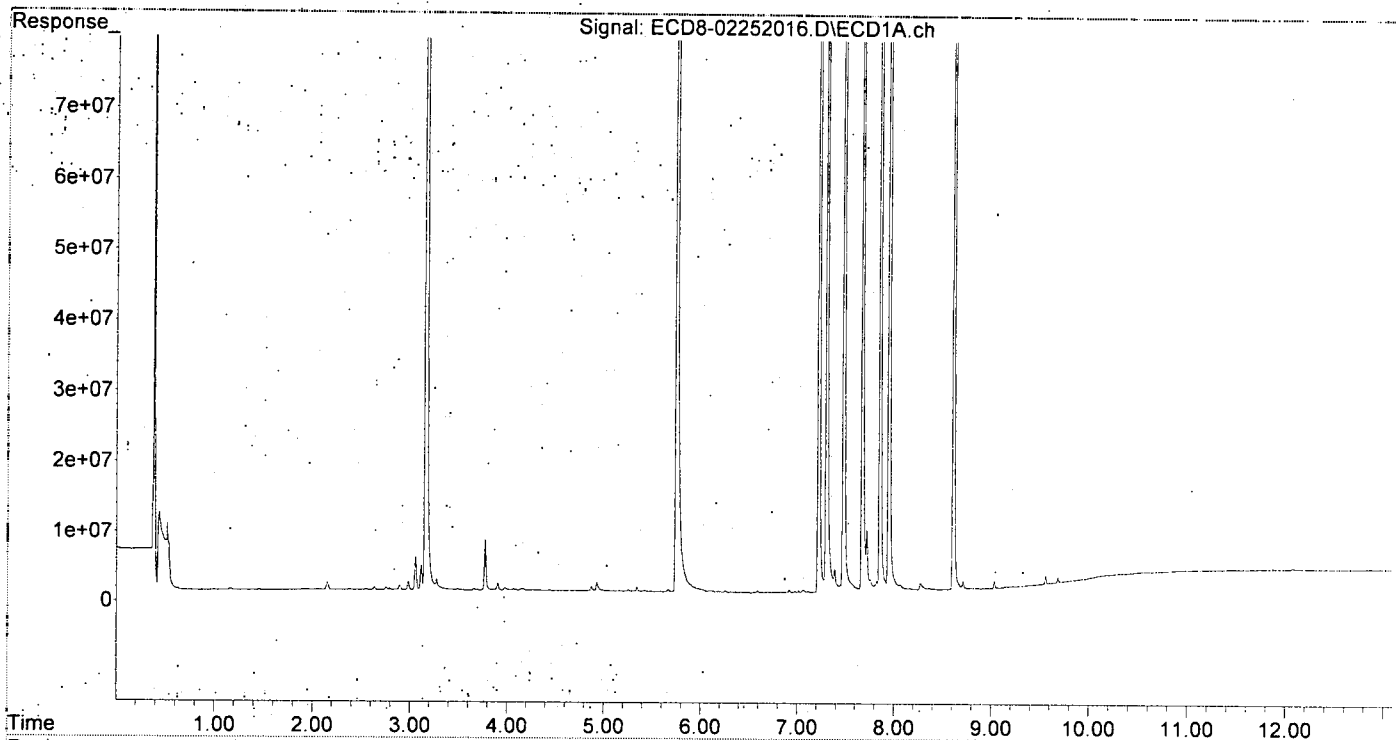
MJB
2/26/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.343f	6.067	591487	214339	0.169	0.062 #
22) S DCBP (S)	9.560	10.626	1335023	2064145	0.188	0.514 #
Target Compounds						
2) a-BHC	5.934f	6.643f	732939	726995	0.155	0.246 #
3) g-BHC	6.184	6.993	171923	98145	0.041	0.067 #
4) b-BHC	6.261	7.050	252455	164759	0.145	0.095 #
5) Heptachlor	6.593	7.359	354287	312148	0.086	0.074
6) d-BHC	6.414	7.305	116176	103394	0.140	0.127
7) Aldrin	6.833	7.634	61119	355557	0.015	0.107 #
8) Heptachlo...	7.301	8.059	211.4E6	898168	57.239	0.250 #
9) trans-Chl...	7.387	8.190	3292531	243.0E6	0.876	65.358 #
10) cis-Chlor...	7.478	0.000	352.6E6	0	96.027	N.D. #
11) Endosulfa...	0.000	8.356	0	477979	N.D.	0.145 #
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.756	8.562	1642938	212.4E6	0.431	56.118 #
14) Endrin	7.945f	8.787	392.9E6	257.8E6	120.379	79.486 #
15) 4,4'-DDD	7.945f	8.828	392.9E6	415.7E6	154.372	131.478
16) Endosulfa...	8.067	8.935	846679	472527	0.283	0.149 #
17) 4,4'-DDT	8.167	9.050	303078	406624	0.113	0.140
18) Endrin Al...	8.360	9.170	236637	308529	0.090	0.117 #
19) Endosulfa...	0.000	9.360	0	299703	N.D.	0.031 #
20) Methoxychlor	8.509	9.533	32110	640011	0.027	0.230 #
21) Endrin Ke...	8.852	9.754	113447	245.7E6	0.033	76.247 #
23) Hexachlor...	3.163	3.777	393.9E6	514.4E6	101.060	106.231
24) Hexachlor...	5.748	6.536	295.8E6	358.5E6	87.999	105.059
25) Oxychlorane	7.221	7.990	314.8E6	327.8E6	100.837	102.496
26) 2,4'-DDE	7.301	8.190	211.4E6	243.0E6	91.420	106.919
27) trans-Non...	7.478	8.263	352.6E6	365.7E6	96.186	101.309
28) 2,4'-DDD	7.670	8.562	181.3E6	212.4E6	93.612	110.931
29) 2,4'-DDT	7.853	8.787	230.3E6	257.8E6	96.240	101.456
30) cis-Nonac...	7.945	8.828	392.9E6	415.7E6	96.542	104.298
31) Mirex	8.612	9.754	231.9E6	245.7E6	96.692	111.785
32) Chlordane...	7.387	8.190	3292531	243.0E6	8.221	559.358 #
33) Chlordane...	7.478	8.356f	352.6E6	477979	725.100	1.315 #
34) Chlordane...	8.067f	8.976	846679	1684928	6.503	14.188 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.478f	8.562	352.6E6	212.4E6	21542.385	7206.010 #
37) Toxaphene...	7.822f	8.908	1424444	630211	45.342	15.681 #
38) Toxaphene...	0.000	8.976f	0	1684928	N.D.	26.044 #
39) Toxaphene...	8.360	9.050f	236637	406624	BelowCal	0.044
40) Toxaphene...	8.572	9.196	11273	234035	0.208	4.082 #
41) Toxaphene...	8.612f	9.571	231.9E6	707760	3049.459	10.715 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 15:49
Operator : MJB
Sample : 0B25044-CCV4
Misc : A19J409, 9-42 100 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:14 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252017.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 16:06
 Operator : MJB
 Sample : 0B25044-CCB2
 Misc : A20A395
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:18 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

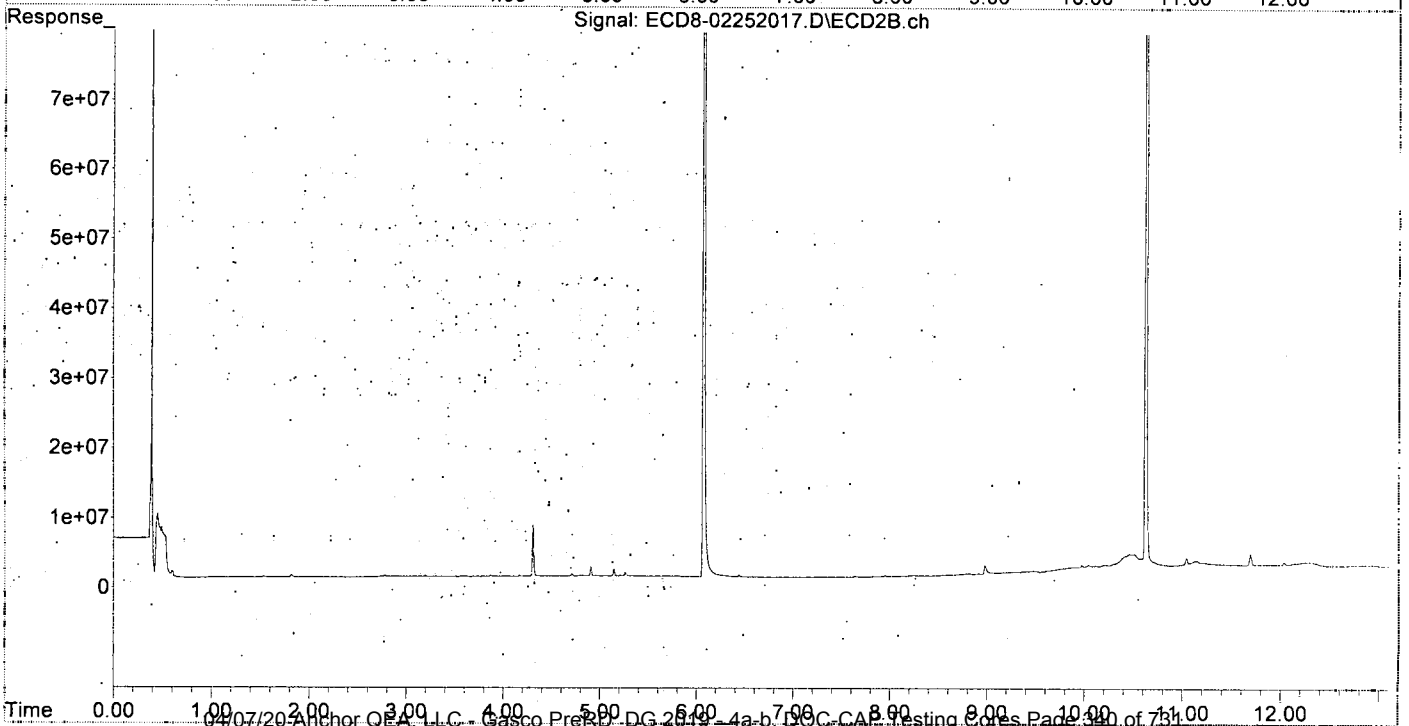
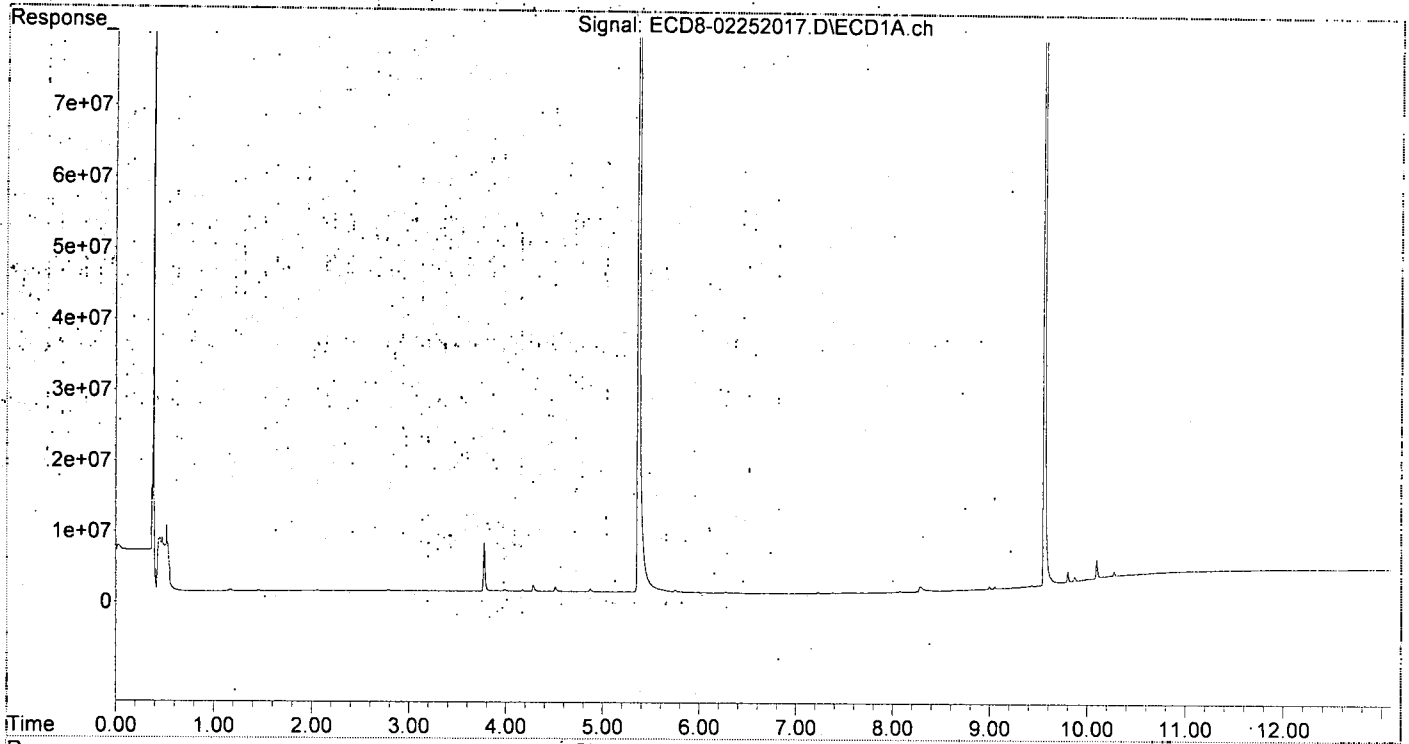
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.368	6.069	278.3E6	346.2E6	79.602	100.354	#
22) S DCBP (S)	9.561	10.625	239.7E6	217.8E6	89.763	97.286	
Target Compounds							
2) a-BHC	5.922	0.000	58086	0	0.012	N.D.	#
3) g-BHC	0.000	7.001	0	9750	N.D.	0.045	#
4) b-BHC	6.268	7.053	110078	11149	0.063	0.006	#
5) Heptachlor	0.000	7.373	0	12429	N.D.	0.003	#
6) d-BHC	0.000	7.308	0	22759	N.D.	0.104	#
7) Aldrin	6.876f	7.636	21725	133400	0.005	0.048	#
8) Heptachlo...	7.305	8.074	11458	30468	0.003	0.008	#
9) trans-Chl...	7.379	8.201	57371	76675	0.015	0.021	#
10) cis-Chlor...	7.484	8.307	77263	30446	0.021	0.009	#
11) Endosulfa...	0.000	8.360	0	13198	N.D.	0.004	#
12) 4,4'-DDE	7.529f	8.409	61753	7259	0.019	0.090	#
13) Dieldrin	7.753	8.560	13350	53858	0.004	0.048	#
14) Endrin	7.918	8.788	11774	197252	0.004	0.061	#
15) 4,4'-DDD	7.951	8.826	19930	200093	0.008	0.129	#
16) Endosulfa...	8.072	8.939	214294	94584	0.072	0.005	#
17) 4,4'-DDT	8.165	9.048	10022	271156	0.004	0.085	#
18) Endrin Al...	8.363	9.169	204822	264934	0.078	0.100	#
19) Endosulfa...	8.662	9.365	36290	316257	0.013	0.038	#
20) Methoxychlor	8.511	9.503f	58944	337310	0.049	BelowCal	#
21) Endrin Ke...	8.851	9.761	34511	675238	0.010	0.016	#
23) Hexachlor...	3.168	3.789	50959	173520	0.013	0.036	#
24) Hexachlor...	5.750	6.536	410792	34793	0.122	BelowCal	#
25) Oxychlordan	7.229	7.994	175880	35617	BelowCal	0.011	
26) 2,4'-DDE	7.305	8.201	11458	76675	0.005	0.034	#
27) trans-Non...	7.484	8.236f	77263	141922	0.021	0.039	#
28) 2,4'-DDD	7.678	8.560	18563	53858	0.010	0.028	#
29) 2,4'-DDT	7.857	8.788	11068	197252	0.005	0.043	#
30) cis-Nonac...	7.948	8.826	23838	200093	0.006	0.050	#
31) Mirex	8.614	9.761	52530	675238	8199.107	0.074	#
32) Chlordane...	7.415	8.201	23486	76675	0.059	0.176	#
33) Chlordane...	7.497	8.307	64224	30446	0.132	0.084	#
34) Chlordane...	8.038	8.980	22832	1381470	0.175	11.633	#
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36) Toxaphene...	7.508	8.579	67989	51486	4.153	1.747	#
37) Toxaphene...	7.826f	8.911	8401	247425	0.267	6.157	#
38) Toxaphene...	8.111	8.939	22866	94584	96753.612	1.462	#
39) Toxaphene...	8.363	9.048f	204822	271156	BelowCal	BelowCal	
40) Toxaphene...	8.576	9.169f	12306	264934	0.227	4.621	#
41) Toxaphene...	8.662	9.609f	36290	375222	0.477	5.681	#
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT. Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 16:06
Operator : MJB
Sample : 0B25044-CCB2
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252028.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 19:26
 Operator : MJB
 Sample : 0B25044-CCV5
 Misc : A19K133, AB 50 ppb
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:46 2020
 Quant Method : C:\msdchem\1\method\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

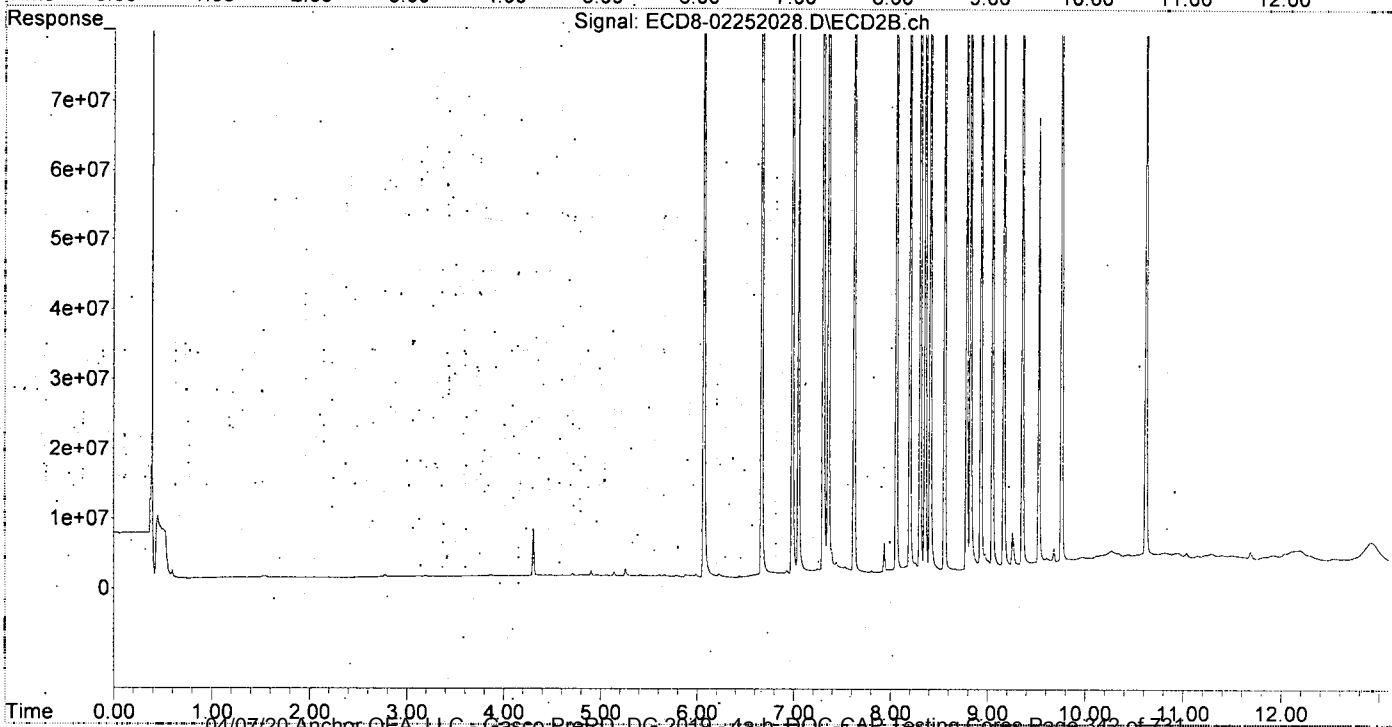
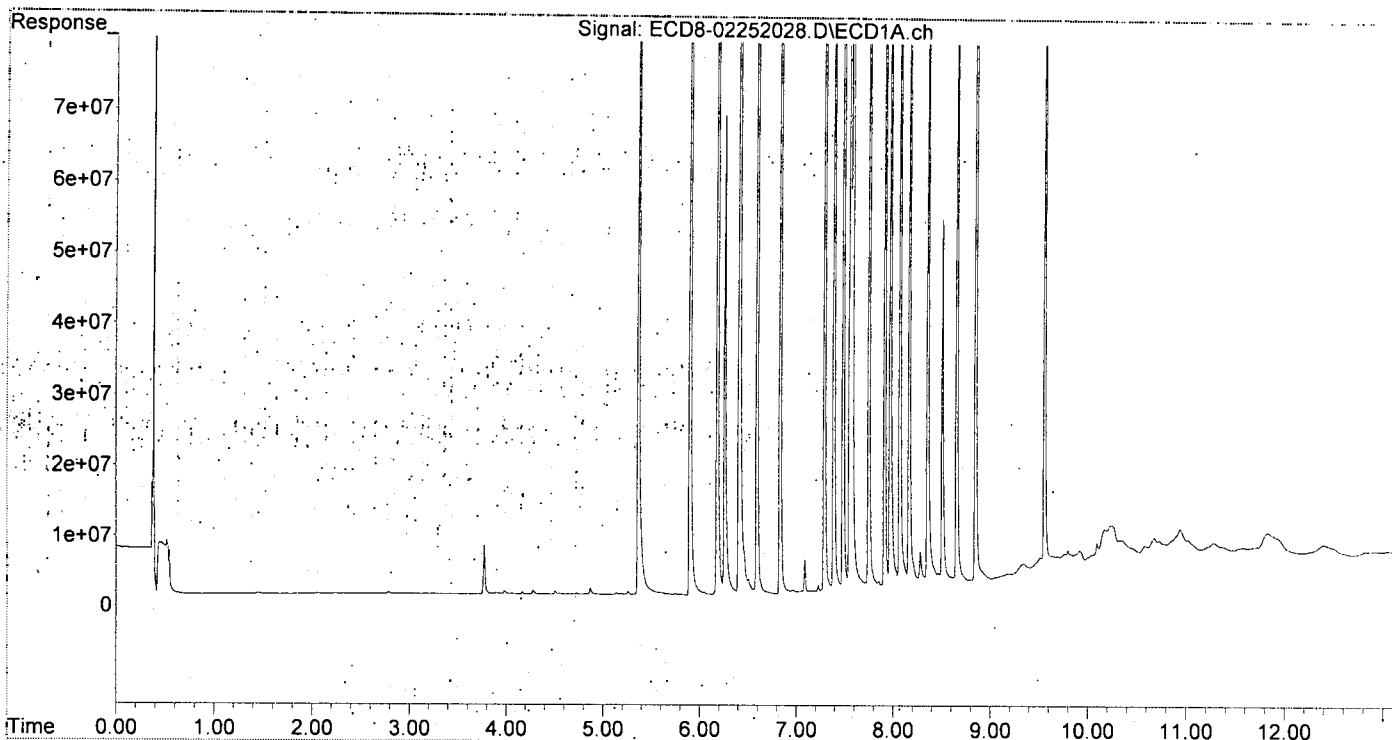
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.366	6.068	141.9E6	168.8E6	40.589	48.920
22) S DCBP (S)	9.557	10.622	128.1E6	109.3E6	48.718	50.904
Target Compounds:						
2) a-BHC	5.901	6.668	220.5E6	243.1E6	46.669	51.841
3) g-BHC	6.182	6.986	195.2E6	207.8E6	46.874	49.455
4) b-BHC	6.259	7.048	67916048	80587959	38.995	46.420
5) Heptachlor	6.593	7.358	205.0E6	207.1E6	49.879	49.184
6) d-BHC	6.408	7.303	135.8E6	184.0E6	37.671	47.838 #
7) Aldrin	6.833	7.625	192.8E6	195.1E6	47.711	48.636
8) Heptachlo...	7.290	8.060	171.0E6	181.6E6	46.308	50.592
9) trans-Chl...	7.387	8.199	172.1E6	182.3E6	45.774	49.014
10) cis-Chlor...	7.484	8.306	169.5E6	171.6E6	46.148	48.707
11) Endosulfa...	7.577	8.358	164.0E6	162.9E6	47.279	49.284
12) 4,4'-DDE	7.552	8.409	144.0E6	172.5E6	43.356	50.395
13) Dieldrin	7.749	8.558	182.2E6	188.4E6	47.772	50.185
14) Endrin	7.912	8.786	146.8E6	144.3E6	44.980	46.691
15) 4,4'-DDD	7.969	8.825	116.6E6	139.6E6	45.832	52.453
16) Endosulfa...	8.069	8.932	127.7E6	142.3E6	42.673	49.486
17) 4,4'-DDT	8.166	9.050	127.4E6	145.8E6	47.395	52.427
18) Endrin Al...	8.356	9.167	110.9E6	125.7E6	42.115	47.553
19) Endosulfa...	8.655	9.358	126.2E6	140.6E6	44.095	51.378
20) Methoxychlor	8.507	9.527	51753016	64786618	42.890	53.505
21) Endrin Ke...	8.848	9.760	157.5E6	160.5E6	45.563	51.805
23) Hexachlor...	3.167	3.777	46164	221490	0.012	0.046 #
24) Hexachlor...	5.746	6.551	150618	221073	0.045	0.022 #
25) Oxychlordane	7.228	7.987	844556	535531	0.095	0.167 #
26) 2,4'-DDE	7.290	8.199	171.0E6	182.3E6	73.962	80.181
27) trans-Non...	7.484	8.260	169.5E6	1435883	46.224	0.398 #
28) 2,4'-DDD	0.000	8.558	0	188.4E6	N.D.	98.404 #
29) 2,4'-DDT	7.851	8.786	831295	144.3E6	0.347	60.715 #
30) cis-Nonac...	7.969	8.825	116.6E6	139.6E6	28.663	35.036
31) Mirex	8.623	9.760	622915	160.5E6	0.051	74.372 #
32) Chlordane...	7.387	8.199	172.1E6	182.3E6	429.824	419.478
33) Chlordane...	7.484	8.306	169.5E6	171.6E6	348.461	471.950 #
34) Chlordane...	8.069f	8.975	127.7E6	2483443	980.505	20.912 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.484f	8.558	169.5E6	188.4E6	10352.623	6392.275 #
37) Toxaphene...	0.000	8.932	0	142.3E6	N.D.	3539.696 #
38) Toxaphene...	0.000	8.975	0	2483443	N.D.	38.386 #
39) Toxaphene...	8.356	9.009	110.9E6	1459207	1673.255	10.981 #
40) Toxaphene...	8.598f	9.167f	766671	125.7E6	14.145	2192.911 #
41) Toxaphene...	8.655	9.610f	126.2E6	1632862	1659.442	24.720 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 19:26
Operator : MJB
Sample : 0B25044-CCV5
Misc : A19K133, AB 50 ppb
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:46 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252029.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 19:43
 Operator : MJB
 Sample : 0B25044-CCV6
 Misc : A19J408, 9-42 50 ppb
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:50 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

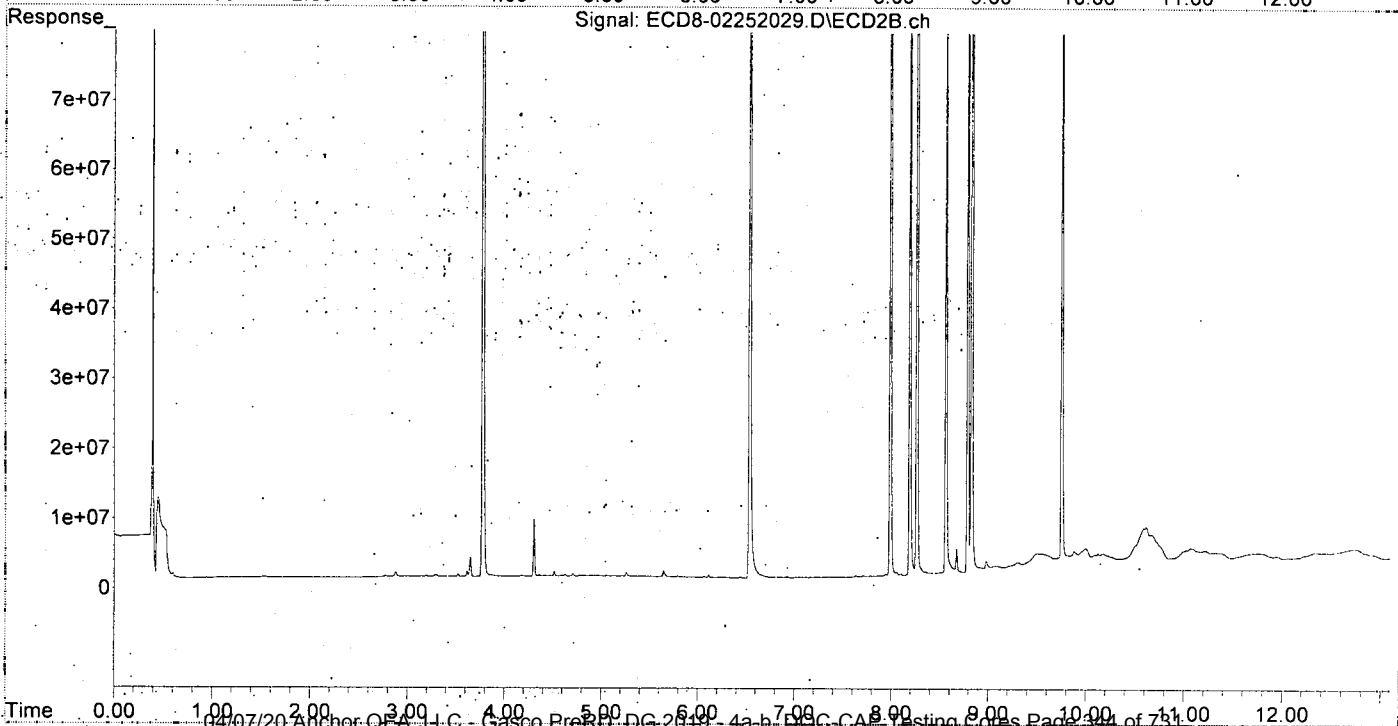
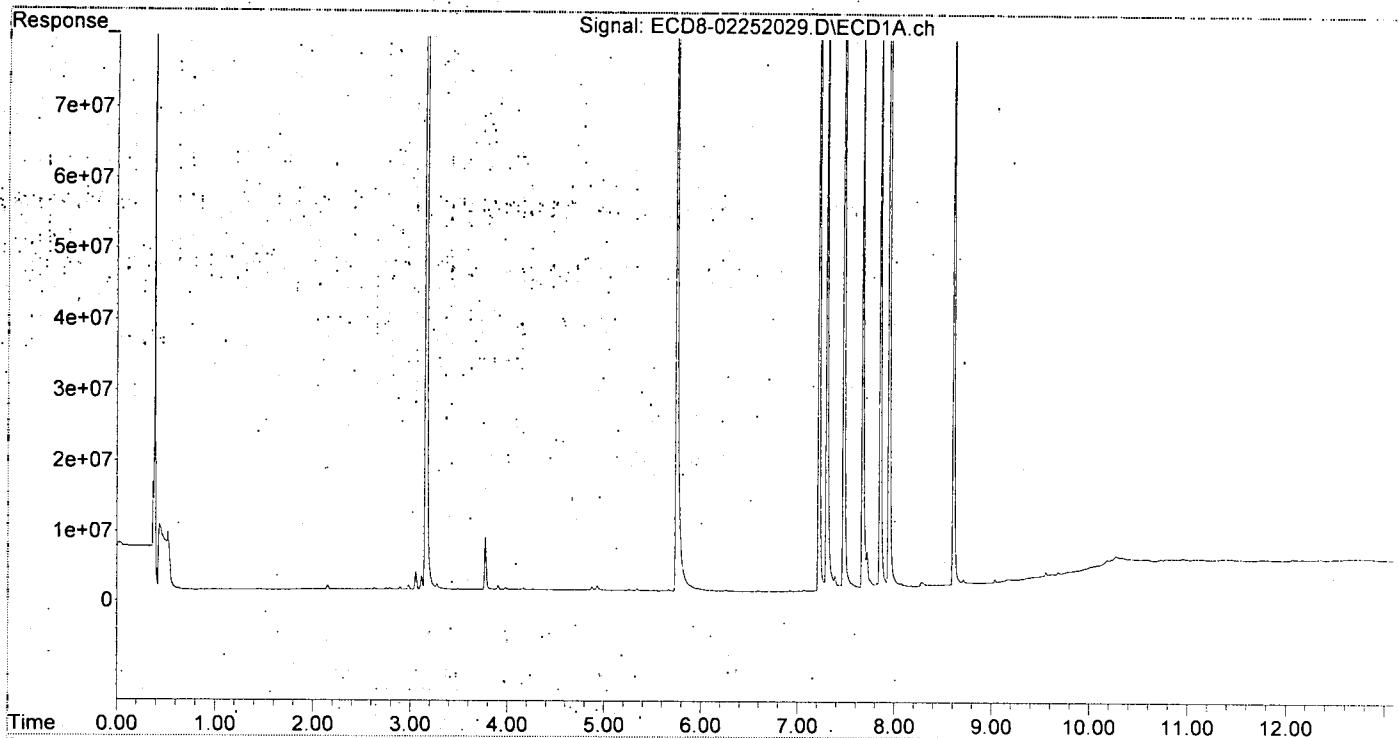
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.342f	6.069	329986	187337	0.094	0.054 #
22) S DCBP (S)	9.559	10.616	1118348	5734120	0.103	2.328 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.187	6.967f	98943	33176	0.024	0.051 #
4) b-BHC	6.261	7.052	186200	81881	0.107	0.047 #
5) Heptachlor	6.592	7.358	161236	135745	0.039	0.032
6) d-BHC	6.421	7.306	48432	37694	0.121	0.108
7) Aldrin	6.832	7.634	17553	201299	0.004	0.066 #
8) Heptachlo...	7.301	8.057	100.3E6	580849	27.158	0.162 #
9) trans-Chl...	7.387	8.189	2039448	113.6E6	0.542	30.560 #
10) cis-Chlor...	7.477	0.000	174.6E6	0	47.540	N.D. #
11) Endosulfa...	0.000	8.353	0	416181	N.D.	0.126 #
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.718f	8.561	5288305	101.7E6	1.387	27.953 #
14) Endrin	7.944f	8.785	196.3E6	119.9E6	60.161	39.227 #
15) 4,4'-DDD	7.944f	8.826	196.3E6	207.6E6	77.149	74.145
16) Endosulfa...	8.070	8.930	578026	768328	0.193	0.261 #
17) 4,4'-DDT	8.167	9.053	149360	884536	0.056	0.335 #
18) Endrin Al...	8.357	0.000	139237	0	0.053	N.D. #
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	8.520	9.525	34843	2430816	0.029	1.915 #
21) Endrin Ke...	8.854	9.752	96772	125.3E6	0.028	41.140 #
23) Hexachlor...	3.161	3.775	201.6E6	257.2E6	51.726	53.109
24) Hexachlor...	5.747	6.534	143.0E6	171.0E6	42.553	54.264 #
25) Oxychlor dane	7.221	7.989	157.3E6	163.4E6	50.687	51.087
26) 2,4'-DDE	7.301	8.189	100.3E6	113.6E6	43.375	49.993
27) trans-Non...	7.477	8.262	174.6E6	175.1E6	47.619	48.524
28) 2,4'-DDD	7.671	8.561	86541881	101.7E6	44.683	53.131
29) 2,4'-DDT	7.853	8.785	114.4E6	119.9E6	47.790	51.255
30) cis-Nonac...	7.944	8.826	196.3E6	207.6E6	48.248	52.081
31) Mirex	8.610	9.752	121.7E6	125.3E6	50.346	58.490
32) Chlordane...	7.387	8.189f	2039448	113.6E6	5.093	261.544 #
33) Chlordane...	7.477	8.353f	174.6E6	416181	358.972	1.145 #
34) Chlordane...	8.070f	8.979	578026	1711078	4.440	14.408 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.477f	8.561	174.6E6	101.7E6	10664.901	3451.369 #
37) Toxaphene...	7.821f	8.930	786304	768328	25.029	19.118
38) Toxaphene...	0.000	8.979f	0	1711078	N.D.	26.448 #
39) Toxaphene...	8.357	9.053f	139237	884536	BelowCal	5.012
40) Toxaphene...	8.610f	9.228f	121.7E6	930119	2245.062	16.224 #
41) Toxaphene...	8.610f	9.562	121.7E6	2387327	1600.014	36.142 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 19:43
Operator : MJB
Sample : 0B25044-CCV6
Misc : A19J408, 9-42.50 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:50 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B25044\
 Data File : ECD8-02252030.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 25 Feb 2020 20:00
 Operator : MJB
 Sample : 0B25044-CCB3
 Misc : A20A395
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 26 11:17:54 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/26/20

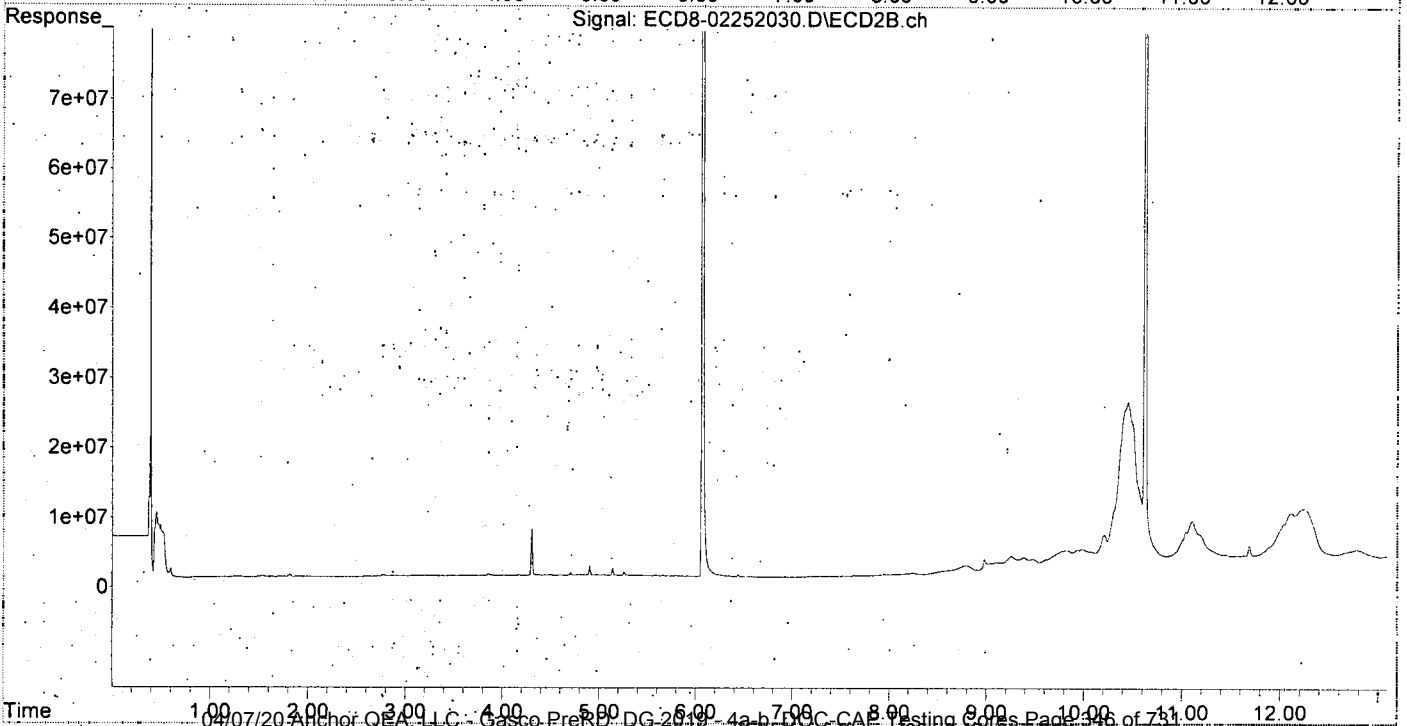
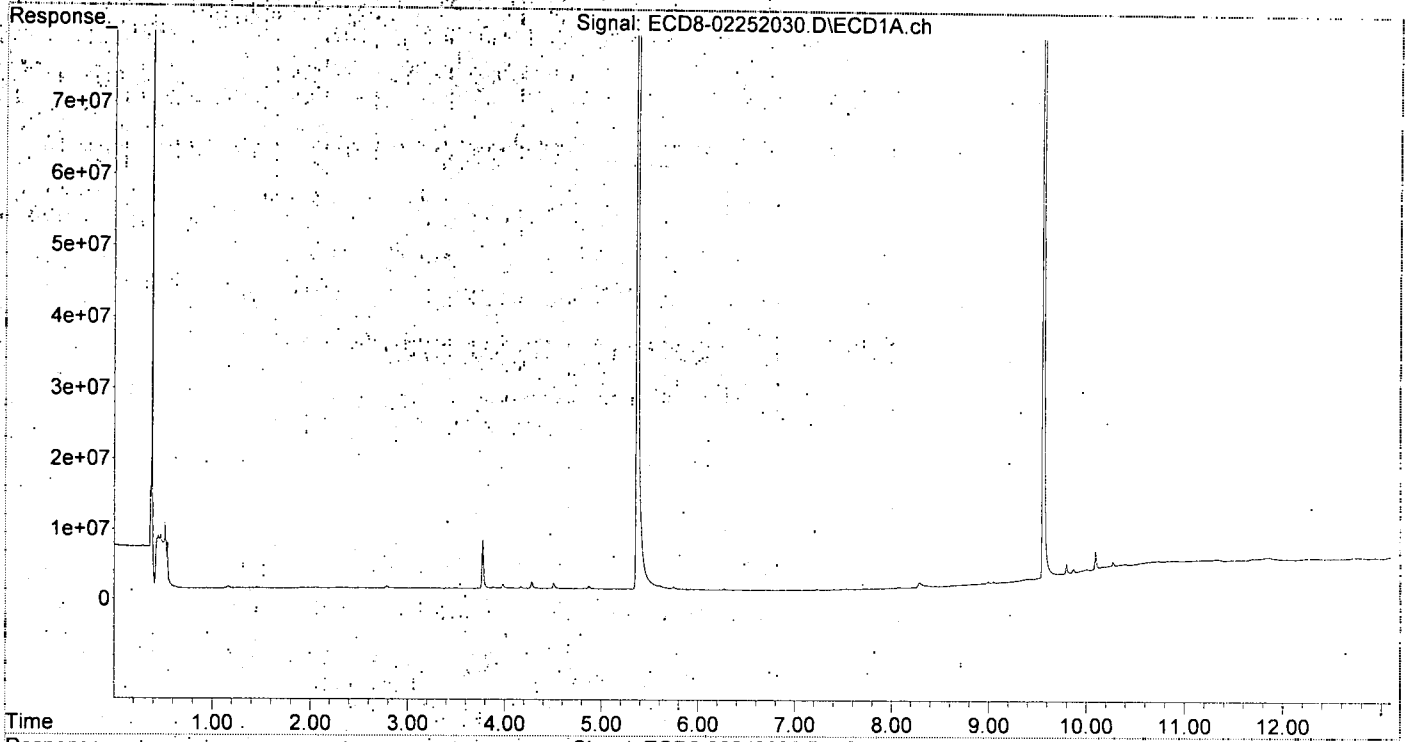
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.366	6.067	282.3E6	348.6E6	80.758	101.059 #
22) S DCBP (S)	9.558	10.623	245.0E6	228.0E6	91.687	101.452
Target Compounds						
2) a-BHC	5.915	0.000	56185	0	0.012	N.D. #
3) g-BHC	0.000	6.999	0	10399	N.D.	0.045 #
4) b-BHC	6.267	7.060	141497	19831	0.081	0.011 #
5) Heptachlor	0.000	7.385f	0	67836	N.D.	0.016 #
6) d-BHC	0.000	7.304	0	64071	N.D.	0.116 #
7) Aldrin	6.866f	7.637	44624	124148	0.011	0.045 #
8) Heptachlo...	7.268f	8.072	12667	104608	0.003	0.029 #
9) trans-Chl...	7.391	8.201	48560	176712	0.013	0.048 #
10) cis-Chlor...	7.488	8.314	75715	55287	0.021	0.016
11) Endosulfa...	0.000	8.367	0	9131	N.D.	0.003 #
12) 4,4'-DDE	7.527f	0.000	74800	0	0.023	N.D. #
13) Dieldrin	7.747	8.571	18168	360426	0.005	0.135 #
14) Endrin	7.913	8.794	20042	1019880	0.006	0.347 #
15) 4,4'-DDD	7.974	8.794f	8872	1019880	0.003	0.479 #
16) Endosulfa...	8.071	8.909f	179323	366730	0.060	0.109 #
17) 4,4'-DDT	8.169	9.055	8312	1209103	0.003	0.467 #
18) Endrin Al...	8.355	9.156	240500	1217751	0.091	0.461 #
19) Endosulfa...	8.660	9.385f	43712	1866400	0.015	0.657 #
20) Methoxychlor	8.516	0.000	39968	0	0.033	N.D. #
21) Endrin Ke...	8.855	0.000	44627	0	0.013	N.D. #
23) Hexachlor...	3.166	3.773	48067	80953	0.012	0.017 #
24) Hexachlor...	5.747	6.532	424709	40052	0.126	BelowCal #
25) Oxychlordane	7.228	7.990	160508	87045	BelowCal	0.027
26) 2,4'-DDE	7.268f	8.201	12667	176712	0.005	0.078 #
27) trans-Non...	7.488	8.233f	75715	228880	0.021	0.063 #
28) 2,4'-DDD	7.679	8.571	25642	360426	0.013	0.188 #
29) 2,4'-DDT	7.858	8.794	9145	1019880	0.004	0.430 #
30) cis-Nonac...	7.949	8.794f	17629	1019880	0.004	0.256 #
31) Mirex	8.617	0.000	50493	0	8199.108	N.D. #
32) Chlordane...	7.412	8.201	55521	176712	0.139	0.407 #
33) Chlordane...	7.495	8.314	74801	55287	0.154	0.152
34) Chlordane...	8.032	8.981	16804	1836038	0.129	15.461 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.506	8.571	76407	360426	4.668	12.231 #
37) Toxaphene...	7.798	8.909	9288	366730	0.296	9.125 #
38) Toxaphene...	8.110	8.981f	25981	1836038	96753.568	28.379 #
39) Toxaphene...	8.355	9.024	240500	1155691	BelowCal	7.829
40) Toxaphene...	8.577	0.000	5907	0	0.109	N.D. #
41) Toxaphene...	8.644	0.000	23536	0	0.309	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B25044\
Data File : ECD8-02252030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Feb 2020 20:00
Operator : MJB
Sample : 0B25044-CCB3
Misc : A20A395
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 26 11:17:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201RT6.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



**Organochloride Pesticides by EPA 8081B
Calibration Data**

Sequence 0B01012 (Cal ID A0B0404) DualECD8



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B01012**
Date: **02/01/20 13:45**

Instrument: **DUALECD8**
Calibration: **A0B0404**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B01012-BKD1	Water	QC	QC				
2	0B01012-ICB1	Water	QC	QC				A20A019
3	0B01012-CAL1	Water	QC	QC				A20A395
4	0B01012-CAL2	Water	QC	QC				A20B001
5	0B01012-CAL3	Water	QC	QC				A20B002
6	0B01012-CAL4	Water	QC	QC				A19K128
7	0B01012-CAL5	Water	QC	QC				A19K130
8	0B01012-CAL6	Water	QC	QC				A19K131
9	0B01012-CAL7	Water	QC	QC				A19K132
10	0B01012-CAL8	Water	QC	QC				A19K133
11	0B01012-CAL9	Water	QC	QC				A19K134
12	0B01012-IBL1	Water	QC	QC				A19K126
13	0B01012-ICV1	Water	QC	QC				
14	0B01012-CALA	Water	QC	QC				A19I209
15	0B01012-CALB	Water	QC	QC				A20B003
16	0B01012-CALC	Water	QC	QC				A19K263
17	0B01012-CALD	Water	QC	QC				A19K264
18	0B01012-CALE	Water	QC	QC				A19K265
19	0B01012-CALF	Water	QC	QC				A19K266
20	0B01012-CALG	Water	QC	QC				A19J407
21	0B01012-CALH	Water	QC	QC				A19J408
22	0B01012-CALI	Water	QC	QC				A19J409
23	0B01012-IBL2	Water	QC	QC				A19K262
24	0B01012-ICV2	Water	QC	QC				
25	0B01012-CALJ	Water	QC	QC				A19J410
26	0B01012-CALK	Water	QC	QC				A20B004
27	0B01012-CALL	Water	QC	QC				A19K307
28	0B01012-CALM	Water	QC	QC				A19K308
29	0B01012-CALN	Water	QC	QC				A19K309
30	0B01012-CALO	Water	QC	QC				A19K310
31	0B01012-CALP	Water	QC	QC				A19K311
32	0B01012-IBL3	Water	QC	QC				A19K306
33	0B01012-ICV3	Water	QC	QC				
34	0B01012-CALQ	Water	QC	QC				A19K312
35	0B01012-CALR	Water	QC	QC				A20B005
36	0B01012-CALS	Water	QC	QC				A19J417
37	0B01012-CALT	Water	QC	QC				A19J418
38	0B01012-CALU	Water	QC	QC				A19J419
39	0B01012-CALV	Water	QC	QC				A19J420
40	0B01012-CALW	Water	QC	QC				A19J421
41	0B01012-IBL4	Water	QC	QC				A19J416
42	0B01012-ICV4	Water	QC	QC				A19J422

Data Entered By: MB 2/4/20

Comments: ± CAL

Data Reviewed By: ML 2/5/20

Calibration Status Report DUALECD8

Method Path : C:\msdchem\1\methods\
 Method File : ECD8_QUANTPEST_200201.M
 Title : Instrument: DualECD8
 Last Update : Mon Feb 03 15:36:51 2020
 Response Via : Initial Calibration

A030404

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012036.D
2	2	50	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012037.D
3	3	100	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012038.D
4	4	200	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012039.D
5	5	500	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012040.D
6	6	1000	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012041.D
7	7	2000	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012042.D
8	8	-1	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012023.D
9	9	-1	0	C:\msdchem\1\data\2020-02\0B01012\ECD8-02012024.D

*MJB
2/3/20*

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Feb 03 15:36 2020	Feb 03 15:28 2020	2 Feb 2020 00:08
2	2	Feb 03 15:36 2020	Feb 03 15:29 2020	2 Feb 2020 00:24
3	3	Feb 03 15:36 2020	Feb 03 15:29 2020	2 Feb 2020 00:41
4	4	Feb 03 15:36 2020	Feb 03 15:30 2020	2 Feb 2020 00:58
5	5	Feb 03 15:36 2020	Feb 03 15:27 2020	2 Feb 2020 1:15
6	6	Feb 03 15:36 2020	Feb 03 15:31 2020	2 Feb 2020 1:32
7	7	Feb 03 15:36 2020	Feb 03 15:31 2020	2 Feb 2020 1:48
8	8	Feb 03 15:34 2020	Feb 03 15:20 2020	1 Feb 2020 20:29
9	9	Feb 03 15:34 2020	Feb 03 15:20 2020	1 Feb 2020 20:46

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:20 2020

Calibration Report DUALECD8

Method Path : C:\msdchem\1\methods\
 Method File : ECD8_QUANTPEST_200201.M
 Title : Instrument: DualECD8
 Last Update : Mon Feb 03 15:36:51 2020
 Response Via : Initial Calibration

Calibration Files

1 =ECD8-02012036 2 =ECD8-02012037 3 =ECD8-02012038 4 =ECD8-02012039 5 =ECD8-02012040
 6 =ECD8-02012041 7 =ECD8-02012042 8 =ECD8-02012023 9 =ECD8-02012024

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	3.4961 e6	-----	0.0749
2)	a-BHC	Avg	-----	4.7246 e6	-----	0.0457
3)	g-BHC	Avg	-----	4.1634 e6	-----	0.0350
4)	b-BHC	Avg	-----	1.7416 e6	-----	0.0471
5)	Heptachlor	Avg	-----	4.1100 e6	-----	0.0402
6)	d-BHC	Quad	-3.6787 e5	3.4533 e6	4.2814 e3	0.9964
7)	Aldrin	Avg	-----	4.0406 e6	-----	0.0283
8)	Heptachlor Expoxide	Avg	-----	3.6928 e6	-----	0.0542
9)	trans-Chlordane	Avg	-----	3.7605 e6	-----	0.0398
10)	cis-Chlordane	Avg	-----	3.6723 e6	-----	0.0621
11)	Endosulfan I	Avg	-----	3.4687 e6	-----	0.0507
12)	4,4'-DDE	Avg	-----	3.3208 e6	-----	0.0744
13)	Dieldrin	Avg	-----	3.8134 e6	-----	0.0343
14)	Endrin	Avg	-----	3.2636 e6	-----	0.0315
15)	4,4'-DDD	Avg	-----	2.5450 e6	-----	0.0979
16)	Endosulfan II	Avg	-----	2.9916 e6	-----	0.0649
17)	4,4'-DDT	Avg	-----	2.6882 e6	-----	0.0889
18)	Endrin Aldehyde	Avg	-----	2.6327 e6	-----	0.0812
19)	Endosulfan Sulfate	Avg	-----	2.8622 e6	-----	0.0519
20)	Methoxychlor	Avg	-----	1.2066 e6	-----	0.0820
21)	Endrin Ketone	Avg	-----	3.4564 e6	-----	0.0521
22) S	DCBP (S)	Quad	8.5493 e5	2.5533 e6	1.1956 e3	0.9987
23)	Hexachlorobutadiene	Avg	-----	3.8982 e6	-----	0.0867
24)	Hexachlorobenzene	Avg	-----	3.3616 e6	-----	0.0588
25)	Oxychlordane	Quad	5.5211 e5	3.0698 e6	4.6404 e2	0.9988
26)	2,4'-DDE	Avg	-----	2.3121 e6	-----	0.0585
27)	trans-Nonachlor	Avg	-----	3.6662 e6	-----	0.0810
28)	2,4'-DDD	Avg	-----	1.9368 e6	-----	0.0779
29)	2,4'-DDT	Avg	-----	2.3931 e6	-----	0.0804
30)	cis-Nonachlor	Avg	-----	4.0695 e6	-----	0.0640
31)	Mirex	Quad	5.0001 e5	2.4220 e6	-2.9540 e2	0.9974
32)	Chlordane (1)	Avg	-----	4.0048 e5	-----	0.0330
33)	Chlordane (2)	Avg	-----	4.8633 e5	-----	0.0407
34)	Chlordane (3)	Avg	-----	1.3020 e5	-----	0.0619
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	1.6369 e4	-----	0.0553
37)	Toxaphene (2)	Avg	-----	3.1415 e4	-----	0.0831
38)	Toxaphene (3)	Quad	2.2243 e5	7.0395 e4	-0.7276	0.9981
39)	Toxaphene (4)	Quad	4.5032 e5	6.4862 e4	0.6759	0.9982
40)	Toxaphene (5)	Avg	-----	5.4202 e4	-----	0.0528
41)	Toxaphene (6)	Avg	-----	7.6054 e4	-----	0.0615
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

MJB
2/3/20

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	3.4496 e6	-----	0.0965
2)	a-BHC	Quad	-3.2343 e5	4.2664 e6	8.2745 e3	0.9960
3)	g-BHC	Quad	-1.6434 e5	3.9019 e6	6.1477 e3	0.9964
4)	b-BHC	Avg	-----	1.7361 e6	-----	0.0812
5)	Heptachlor	Avg	-----	4.2108 e6	-----	0.0897
6)	d-BHC	Quad	-3.4135 e5	3.4999 e6	7.3816 e3	0.9930
7)	Aldrin	Quad	4.5141 e4	3.7409 e6	5.5614 e3	0.9964

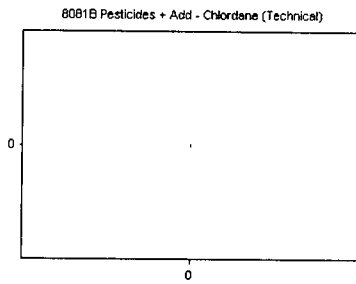
8)	Heptachlor Epoxide	Avg	-----	3.5897 e6	-----	0.0770
9)	trans-Chlordane	Avg	-----	3.7184 e6	-----	0.0875
10)	cis-Chlordane	Avg	-----	3.5227 e6	-----	0.0870
11)	Endosulfan I	Avg	-----	3.3050 e6	-----	0.0966
12)	4,4'-DDE	Quad	-2.7421 e5	3.1100 e6	6.3174 e3	0.9963
13)	Dieldrin	Quad	-1.1278 e5	3.5000 e6	5.0969 e3	0.9973
14)	Endrin	Quad	2.1691 e4	2.8712 e6	4.6829 e3	0.9979
15)	4,4'-DDD	Quad	-1.0007 e5	2.3331 e6	6.3054 e3	0.9950
16)	Endosulfan II	Quad	8.0342 e4	2.6351 e6	4.8093 e3	0.9962
17)	4,4'-DDT	Quad	6.2935 e4	2.4488 e6	6.3238 e3	0.9944
18)	Endrin Aldehyde	Avg	-----	2.6437 e6	-----	0.1032
19)	Endosulfan Sulfate	Quad	2.2237 e5	2.4980 e6	4.5656 e3	0.9966
20)	Methoxychlor	Quad	3.9664 e5	1.0572 e6	2.7326 e3	0.9885
21)	Endrin Ketone	Quad	6.2899 e5	2.8167 e6	5.2103 e3	0.9947
22) S	DCBP (S)	Quad	1.0261 e6	2.0175 e6	2.1659 e3	0.9907
23)	Hexachlorobutadiene	Avg	-----	4.8419 e6	-----	0.0604
24)	Hexachlorobenzene	Quad	1.5728 e5	2.8673 e6	5.1735 e3	0.9980
25)	Oxychlorane	Avg	-----	3.1981 e6	-----	0.0855
26)	2,4'-DDE	Avg	-----	2.2730 e6	-----	0.0865
27)	trans-Nonachlor	Avg	-----	3.6095 e6	-----	0.0771
28)	2,4'-DDD	Avg	-----	1.9143 e6	-----	0.0953
29)	2,4'-DDT	Quad	1.0467 e5	2.1282 e6	4.0612 e3	0.9981
30)	cis-Nonachlor	Avg	-----	3.9852 e6	-----	0.0818
31)	Mirex	Quad	5.2228 e5	2.0685 e6	1.1146 e3	0.9931
32)	Chlordane (1)	Avg	-----	4.3448 e5	-----	0.0655
33)	Chlordane (2)	Avg	-----	3.6356 e5	-----	0.0725
34)	Chlordane (3)	Avg	-----	1.1876 e5	-----	0.0531
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	2.9469 e4	-----	0.0522
37)	Toxaphene (2)	Avg	-----	4.0189 e4	-----	0.0698
38)	Toxaphene (3)	Avg	-----	6.4696 e4	-----	0.0605
39)	Toxaphene (4)	Quad	4.0242 e5	9.6156 e4	7.1704	0.9972
40)	Toxaphene (5)	Avg	-----	5.7329 e4	-----	0.0545
41)	Toxaphene (6)	Avg	-----	6.6054 e4	-----	0.0754
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:39 2020

Element Calibration Review Sheet

Calibration ID: **A0B0404**Instrument: **DUALECD8**Calibration Date: **02/04/2020**Analysis: **8081B Pesticides + Add**Instrument Cal ID: **ECD8_QUANTPEST_20020**

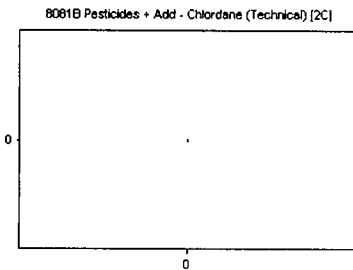
Chlordane (Technical)

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

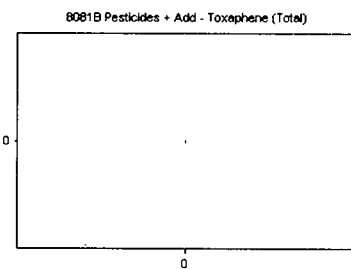
Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	0	0.000	0.00
0B01012-CALK	50	0	0.000	0.00
0B01012-CALL	100	0	0.000	0.00
0B01012-CALM	200	0	0.000	0.00
0B01012-CALN	500	0	0.000	0.00
0B01012-CALO	1000	0	0.000	0.00
0B01012-CALP	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

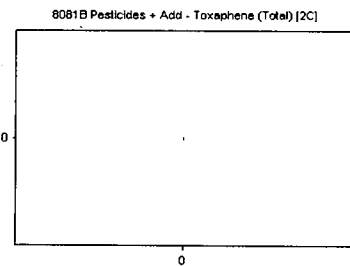
Toxaphene (Total)

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Toxaphene (Total) [2C]

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0B01012-CALQ	10	0	0.000	0.00
0B01012-CALR	50	0	0.000	0.00
0B01012-CALS	100	0	0.000	0.00
0B01012-CALT	200	0	0.000	0.00
0B01012-CALU	500	0	0.000	0.00
0B01012-CALV	1000	0	0.000	0.00
0B01012-CALW	2000	0	0.000	0.00

AVE RF **0.000** RF RSD **0.00** AVE RT **0.00**

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

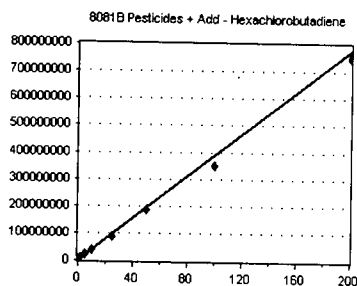
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Hexachlorobutadiene

Curve Fit: **AVERAGE RF**

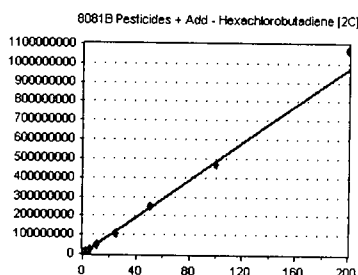


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	2278541	4557082.000	3.08
OB01012-CALB	1	4206156	4206156.000	3.08
OB01012-CALC	2	7973044	3986522.000	3.08
OB01012-CALD	5	2.000834E+07	4001668.000	3.08
OB01012-CALE	10	3.837758E+07	3837758.000	3.08
OB01012-CALF	25	8.728258E+07	3491303.000	3.08
OB01012-CALG	50	1.865705E+08	3731410.000	3.08
OB01012-CALH	100	3.510147E+08	3510147.000	3.08
OB01012-CALI	200	7.522633E+08	3761317.000	3.08

AVE RF 3898151.000 RF RSD 8.67 AVE RT 3.08

Hexachlorobutadiene [2C]

Curve Fit: **AVERAGE RF**

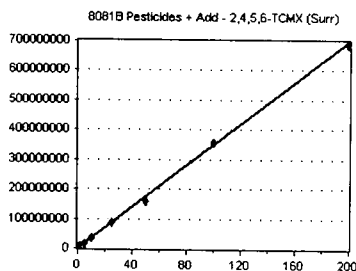


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	2594123	5188246.000	3.68
OB01012-CALB	1	4878910	4878910.000	3.68
OB01012-CALC	2	9306742	4653371.000	3.68
OB01012-CALD	5	2.374866E+07	4749732.000	3.68
OB01012-CALE	10	4.708842E+07	4708842.000	3.68
OB01012-CALF	25	1.09599E+08	4383960.000	3.68
OB01012-CALG	50	2.49172E+08	4983440.000	3.68
OB01012-CALH	100	4.690606E+08	4690606.000	3.68
OB01012-CALI	200	1.06808E+09	5340400.000	3.68

AVE RF 4841945.000 RF RSD 6.04 AVE RT 3.68

2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

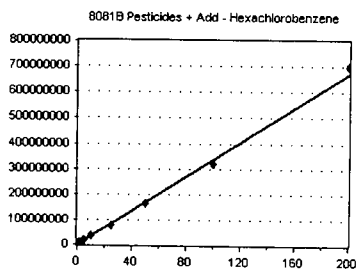


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2010387	4020774.000	5.30
OB01012-CAL2	1	3713760	3713760.000	5.30
OB01012-CAL3	2	7209311	3604656.000	5.30
OB01012-CAL4	5	1.60812E+07	3216240.000	5.30
OB01012-CAL5	10	3.30315E+07	3303150.000	5.30
OB01012-CAL6	25	8.582981E+07	3433192.000	5.30
OB01012-CAL7	50	1.601967E+08	3203934.000	5.30
OB01012-CAL8	100	3.554214E+08	3554214.000	5.30
OB01012-CAL9	200	6.830236E+08	3415118.000	5.30

AVE RF 3496115.000 RF RSD 7.49 AVE RT 5.30

Hexachlorobenzene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1894604	3789208.000	5.68
OB01012-CALB	1	3451879	3451879.000	5.68
OB01012-CALC	2	6640927	3320464.000	5.68
OB01012-CALD	5	1.644726E+07	3289452.000	5.68
OB01012-CALE	10	3.26479E+07	3264790.000	5.68
OB01012-CALF	25	7.79427E+07	3117708.000	5.68
OB01012-CALG	50	1.657174E+08	3314348.000	5.68
OB01012-CALH	100	3.205595E+08	3205595.000	5.68
OB01012-CALI	200	7.002122E+08	3501061.000	5.68

AVE RF 3361612.000 RF RSD 5.88 AVE RT 5.68

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

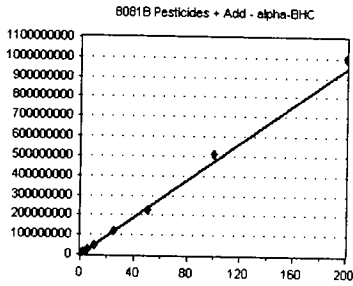
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_2020**

alpha-BHC

Curve Fit: **AVERAGE RF**

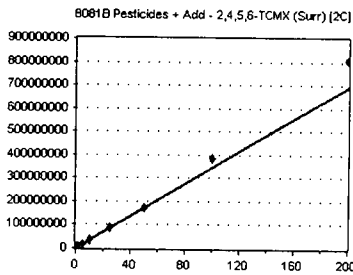


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2323532	4647064.000	5.84
OB01012-CAL2	1	4491787	4491787.000	5.84
OB01012-CAL3	2	9150524	4575262.000	5.84
OB01012-CAL4	5	2.346608E+07	4693216.000	5.84
OB01012-CAL5	10	4.655607E+07	4655607.000	5.84
OB01012-CAL6	25	1.216262E+08	4865048.000	5.84
OB01012-CAL7	50	2.248693E+08	4497386.000	5.84
OB01012-CAL8	100	5.093932E+08	5093932.000	5.84
OB01012-CAL9	200	1.00038E+09	5001900.000	5.84

AVE RF 4724578.000 RF RSD 4.57 AVE RT 5.84

2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**

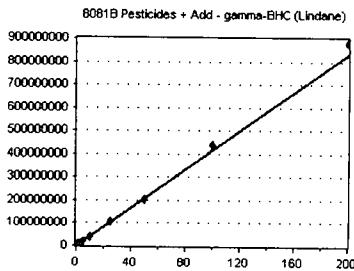


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1807457	3614914.000	5.98
OB01012-CAL2	1	3325610	3325610.000	5.98
OB01012-CAL3	2	6464924	3232462.000	5.98
OB01012-CAL4	5	1.503127E+07	3006254.000	5.98
OB01012-CAL5	10	3.1881E+07	3188100.000	5.98
OB01012-CAL6	25	8.514933E+07	3405973.000	5.98
OB01012-CAL7	50	1.682853E+08	3365706.000	5.98
OB01012-CAL8	100	3.864483E+08	3864483.000	5.98
OB01012-CAL9	200	8.08498E+08	4042490.000	5.98

AVE RF 3449555.000 RF RSD 9.65 AVE RT 5.98

gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**

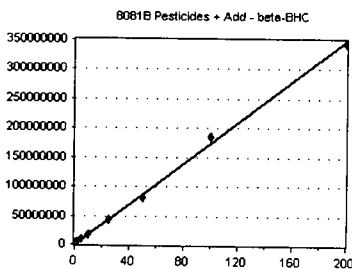


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2098226	4196452.000	6.12
OB01012-CAL2	1	3995270	3995270.000	6.12
OB01012-CAL3	2	8103069	4051535.000	6.12
OB01012-CAL4	5	2.061784E+07	4123568.000	6.12
OB01012-CAL5	10	4.042996E+07	4042996.000	6.12
OB01012-CAL6	25	1.057196E+08	4228784.000	6.12
OB01012-CAL7	50	2.032709E+08	4065418.000	6.12
OB01012-CAL8	100	4.359327E+08	4359327.000	6.12
OB01012-CAL9	200	8.814611E+08	4407306.000	6.12

AVE RF 4163406.000 RF RSD 3.50 AVE RT 6.12

beta-BHC

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	943381	1886762.000	6.20
OB01012-CAL2	1	1736591	1736591.000	6.20
OB01012-CAL3	2	3435299	1717650.000	6.20
OB01012-CAL4	5	8638547	1727709.000	6.20
OB01012-CAL5	10	1.657155E+07	1657155.000	6.20
OB01012-CAL6	25	4.326881E+07	1730752.000	6.20
OB01012-CAL7	50	8.18664E+07	1637328.000	6.20
OB01012-CAL8	100	1.858015E+08	1858015.000	6.20
OB01012-CAL9	200	3.445661E+08	1722831.000	6.20

AVE RF 1741644.000 RF RSD 4.71 AVE RT 6.20

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

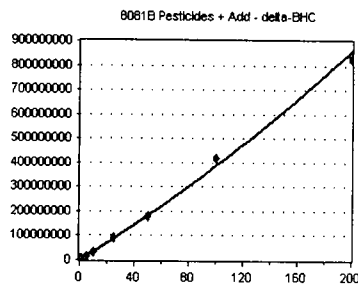
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

delta-BHC

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

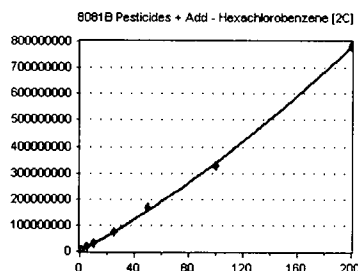


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1446613	2893226.000	6.35
OB01012-CAL2	1	2800163	2800163.000	6.35
OB01012-CAL3	2	6356662	3178331.000	6.35
OB01012-CAL4	5	1.671825E+07	3343650.000	6.35
OB01012-CAL5	10	3.397214E+07	3397214.000	6.35
OB01012-CAL6	25	9.370087E+07	3748035.000	6.35
OB01012-CAL7	50	1.824065E+08	3648130.000	6.35
OB01012-CAL8	100	4.199344E+08	4199344.000	6.35
OB01012-CAL9	200	8.262515E+08	4131258.000	6.34

AVE RF 3482150.000 RF RSD 14.23 AVE RT 6.35

Hexachlorobenzene [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

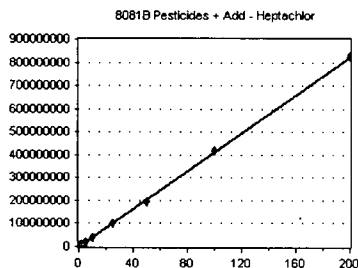


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1616133	3232266.000	6.45
OB01012-CALB	1	2946247	2946247.000	6.45
OB01012-CALC	2	5773353	2886677.000	6.45
OB01012-CALD	5	1.541107E+07	3082214.000	6.45
OB01012-CALE	10	2.852539E+07	2852539.000	6.45
OB01012-CALF	25	7.228214E+07	2891286.000	6.45
OB01012-CALG	50	1.685388E+08	3370776.000	6.45
OB01012-CALH	100	3.276458E+08	3276458.000	6.45
OB01012-CALI	200	7.824725E+08	3912363.000	6.45

AVE RF 3161203.000 RF RSD 10.74 AVE RT 6.45

Heptachlor

Curve Fit: **AVERAGE RF**

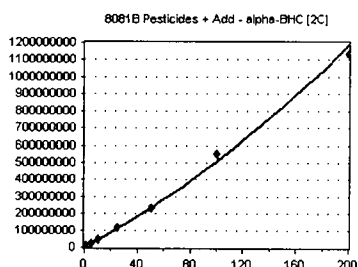


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2213636	4427272.000	6.53
OB01012-CAL2	1	4223019	4223019.000	6.53
OB01012-CAL3	2	8104217	4052109.000	6.53
OB01012-CAL4	5	2.000274E+07	4000548.000	6.53
OB01012-CAL5	10	3.990009E+07	3990009.000	6.53
OB01012-CAL6	25	1.037632E+08	4150528.000	6.53
OB01012-CAL7	50	1.922788E+08	3845576.000	6.53
OB01012-CAL8	100	4.162827E+08	4162827.000	6.53
OB01012-CAL9	200	8.275412E+08	4137706.000	6.53

AVE RF 4109955.000 RF RSD 4.02 AVE RT 6.53

alpha-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1906806	3813612.000	6.59
OB01012-CAL2	1	3754344	3754344.000	6.59
OB01012-CAL3	2	7591226	3795613.000	6.59
OB01012-CAL4	5	2.025052E+07	4050104.000	6.59
OB01012-CAL5	10	4.3487E+07	4348700.000	6.59
OB01012-CAL6	25	1.19197E+08	4767880.000	6.58
OB01012-CAL7	50	2.3331E+08	4666200.000	6.59
OB01012-CAL8	100	5.537284E+08	5537284.000	6.59
OB01012-CAL9	200	1.133362E+09	5666810.000	6.59

AVE RF 4488950.000 RF RSD 16.30 AVE RT 6.58

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

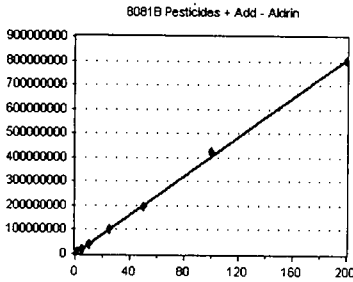
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Aldrin

Curve Fit: **AVERAGE RF**

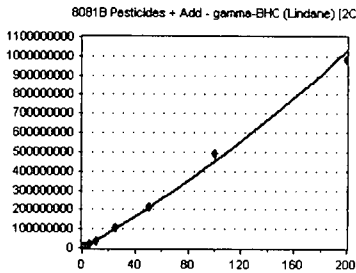


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2117773	4235546.000	6.77
OB01012-CAL2	1	4023063	4023063.000	6.77
OB01012-CAL3	2	7878680	3939340.000	6.77
OB01012-CAL4	5	2.002148E+07	4004296.000	6.77
OB01012-CAL5	10	3.955333E+07	3955333.000	6.77
OB01012-CAL6	25	1.019187E+08	3076748.000	6.77
OB01012-CAL7	50	1.954616E+08	409232.000	6.77
OB01012-CAL8	100	4.209087E+08	4209087.000	6.77
OB01012-CAL9	200	8.024639E+08	4012319.000	6.77

AVE RF 4040552.000 RF RSD 2.83 AVE RT 6.77

gamma-BHC (Lindane) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

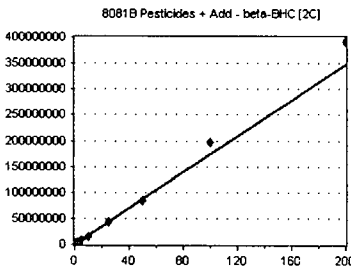


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1857818	3715636.000	6.90
OB01012-CAL2	1	3614287	3614287.000	6.90
OB01012-CAL3	2	7144289	3572145.000	6.90
OB01012-CAL4	5	1.890369E+07	3780738.000	6.90
OB01012-CAL5	10	3.851699E+07	3851699.000	6.90
OB01012-CAL6	25	1.078528E+08	4314112.000	6.90
OB01012-CAL7	50	2.118249E+08	4236498.000	6.90
OB01012-CAL8	100	4.912682E+08	4912682.000	6.90
OB01012-CAL9	200	9.803349E+08	4901675.000	6.90

AVE RF 4099941.000 RF RSD 12.77 AVE RT 6.90

beta-BHC [2C]

Curve Fit: **AVERAGE RF**

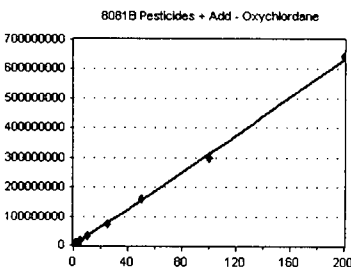


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	871353	1742706.000	6.97
OB01012-CAL2	1	1672509	1672509.000	6.97
OB01012-CAL3	2	3394908	1697454.000	6.97
OB01012-CAL4	5	7798279	1559656.000	6.97
OB01012-CAL5	10	1.605662E+07	1605662.000	6.97
OB01012-CAL6	25	4.282634E+07	1713054.000	6.97
OB01012-CAL7	50	8.529623E+07	1705925.000	6.97
OB01012-CAL8	100	1.968101E+08	1968101.000	6.97
OB01012-CAL9	200	3.918805E+08	1959403.000	6.97

AVE RF 1736052.000 RF RSD 8.12 AVE RT 6.97

Oxychlorodane

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	2078442	4156884.000	7.16
OB01012-CALB	1	3626338	3626338.000	7.16
OB01012-CALC	2	6769962	3384981.000	7.16
OB01012-CALD	5	1.61843E+07	3236860.000	7.16
OB01012-CALE	10	3.1984E+07	3198400.000	7.16
OB01012-CALF	25	7.299099E+07	2919640.000	7.16
OB01012-CALG	50	1.605089E+08	3210178.000	7.16
OB01012-CALH	100	2.998338E+08	2998338.000	7.16
OB01012-CALI	200	6.436567E+08	3218284.000	7.16

AVE RF 3327767.000 RF RSD 11.17 AVE RT 7.16

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

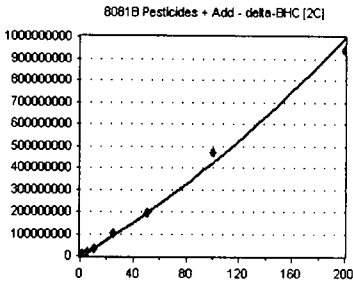
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

delta-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

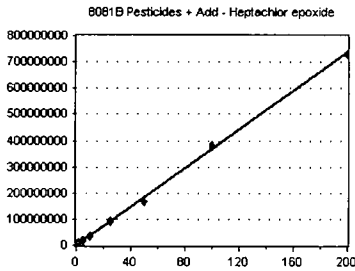


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1525163	3050326.000	7.22
0B01012-CAL2	1	2821743	2821743.000	7.22
0B01012-CAL3	2	6360084	3180042.000	7.22
0B01012-CAL4	5	1.628615E+07	3257230.000	7.22
0B01012-CAL5	10	3.455671E+07	3455671.000	7.22
0B01012-CAL6	25	1.009439E+08	4037756.000	7.22
0B01012-CAL7	50	1.92918E+08	3858360.000	7.22
0B01012-CAL8	100	4.722036E+08	4722036.000	7.22
0B01012-CAL9	200	9.396505E+08	4698253.000	7.22

AVE RF 3675713.000 RF RSD 18.98 AVE RT 7.22

Heptachlor epoxide

Curve Fit: **AVERAGE RF**

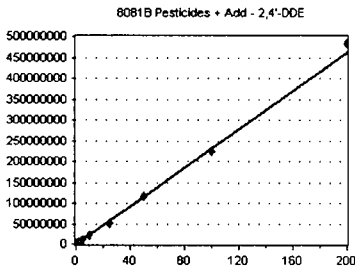


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2037408	4074816.000	7.23
0B01012-CAL2	1	3849968	3849968.000	7.23
0B01012-CAL3	2	7310938	3655469.000	7.23
0B01012-CAL4	5	1.821124E+07	3642248.000	7.23
0B01012-CAL5	10	3.556183E+07	3556183.000	7.23
0B01012-CAL6	25	9.060382E+07	3624153.000	7.23
0B01012-CAL7	50	1.681536E+08	3363072.000	7.23
0B01012-CAL8	100	3.806447E+08	3806447.000	7.23
0B01012-CAL9	200	7.32596E+08	3662980.000	7.23

AVE RF 3692815.000 RF RSD 5.42 AVE RT 7.23

2,4'-DDE

Curve Fit: **AVERAGE RF**

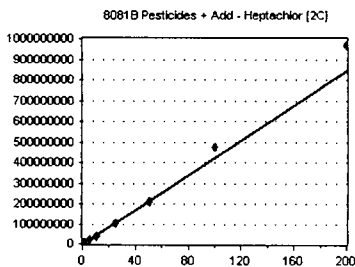


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1290069	2580138.000	7.24
0B01012-CALB	1	2295081	2295081.000	7.24
0B01012-CALC	2	4488919	2244460.000	7.24
0B01012-CALD	5	1.174373E+07	2348746.000	7.24
0B01012-CALE	10	2.280436E+07	2280436.000	7.24
0B01012-CALF	25	5.220238E+07	2088095.000	7.24
0B01012-CALG	50	1.163594E+08	2327188.000	7.24
0B01012-CALH	100	2.230456E+08	2230456.000	7.24
0B01012-CALI	200	4.828511E+08	2414256.000	7.24

AVE RF 2312095.000 RF RSD 5.85 AVE RT 7.24

Heptachlor [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	2166906	4333812.000	7.28
0B01012-CAL2	1	4011938	4011938.000	7.28
0B01012-CAL3	2	7612959	3806480.000	7.28
0B01012-CAL4	5	1.937156E+07	3874312.000	7.28
0B01012-CAL5	10	3.874349E+07	3874349.000	7.28
0B01012-CAL6	25	1.044734E+08	4178936.000	7.27
0B01012-CAL7	50	2.108814E+08	4217628.000	7.28
0B01012-CAL8	100	4.769755E+08	4769755.000	7.28
0B01012-CAL9	200	9.660228E+08	4830114.000	7.28

AVE RF 4210814.000 RF RSD 8.97 AVE RT 7.28

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

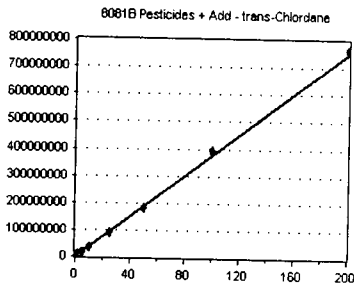
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

trans-Chlordane

Curve Fit: **AVERAGE RF**

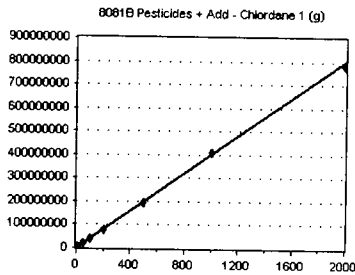


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2006872	4013744.000	7.33
OB01012-CAL2	1	3865919	3865919.000	7.33
OB01012-CAL3	2	7233767	3616884.000	7.33
OB01012-CAL4	5	1.816404E+07	3632808.000	7.33
OB01012-CAL5	10	3.64511E+07	3645110.000	7.33
OB01012-CAL6	25	9.234463E+07	3693785.000	7.33
OB01012-CAL7	50	1.813409E+08	3626818.000	7.33
OB01012-CAL8	100	3.927507E+08	3927507.000	7.33
OB01012-CAL9	200	7.644719E+08	3822359.000	7.33

AVE RF 3760548.000 RF RSD 3.98 AVE RT 7.33

Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

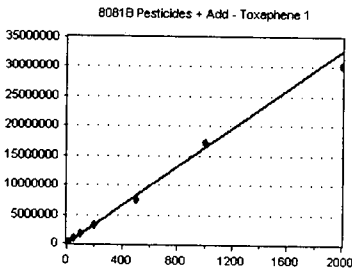


Standard	Concentration	Response	Response Factor	RT
OB01012-CALJ	10	4222162	422216.200	7.33
OB01012-CALK	50	1.933186E+07	386637.200	7.33
OB01012-CALL	100	4.098202E+07	409820.200	7.33
OB01012-CALM	200	7.983398E+07	399169.900	7.33
OB01012-CALN	500	1.942334E+08	388466.800	7.33
OB01012-CALO	1000	4.070686E+08	407068.600	7.33
OB01012-CALP	2000	7.799603E+08	389980.200	7.33

AVE RF 400479.900 RF RSD 3.30 AVE RT 7.33

Toxaphene 1

Curve Fit: **AVERAGE RF**

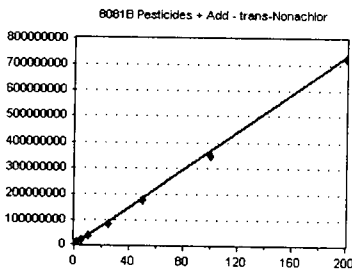


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	169507	16950.700	7.40
OB01012-CALR	50	862137	17242.740	7.40
OB01012-CALS	100	1687426	16874.260	7.40
OB01012-CALT	200	3210991	16054.960	7.40
OB01012-CALU	500	7624274	15248.550	7.40
OB01012-CALV	1000	1.712611E+07	17126.110	7.40
OB01012-CALW	2000	3.017711E+07	15088.550	7.40

AVE RF 16369.410 RF RSD 5.53 AVE RT 7.40

trans-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	2168811	4337622.000	7.42
OB01012-CALB	1	3768972	3768972.000	7.42
OB01012-CALC	2	7569675	3784838.000	7.42
OB01012-CALD	5	1.811565E+07	3623130.000	7.42
OB01012-CALE	10	3.588315E+07	3588315.000	7.42
OB01012-CALF	25	8.181254E+07	3272502.000	7.42
OB01012-CALG	50	1.770198E+08	3540396.000	7.42
OB01012-CALH	100	3.439997E+08	3439997.000	7.42
OB01012-CALI	200	7.279732E+08	3639866.000	7.42

AVE RF 3666182.000 RF RSD 8.10 AVE RT 7.42

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

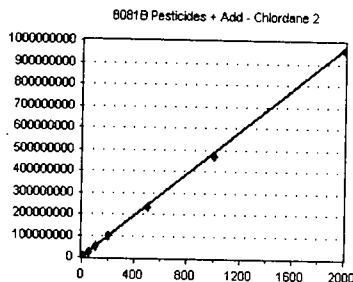
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane 2

Curve Fit: **AVERAGE RF**

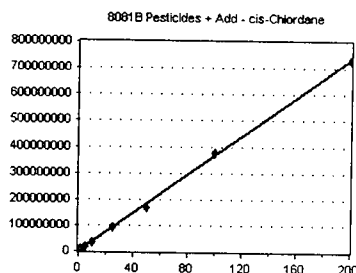


Standard	Concentration	Response	Response Factor	RT
OB01012-CALJ	10	5231315	523131.500	7.42
OB01012-CALK	50	2.384606E+07	476921.200	7.42
OB01012-CALL	100	5.006864E+07	500686.400	7.42
OB01012-CALM	200	9.74708E+07	487354.000	7.42
OB01012-CALN	500	2.341804E+08	468360.800	7.42
OB01012-CALO	1000	4.679568E+08	467956.800	7.42
OB01012-CALP	2000	9.597665E+08	479883.300	7.42

AVE RF 486327.700 RF RSD 4.07 AVE RT 7.42

cis-Chlordane

Curve Fit: **AVERAGE RF**

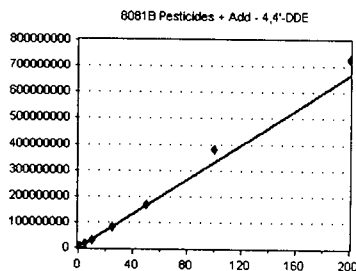


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2072536	4145072.000	7.42
OB01012-CAL2	1	3812238	3812238.000	7.42
OB01012-CAL3	2	7290278	3645139.000	7.42
OB01012-CAL4	5	1.789437E+07	3578874.000	7.42
OB01012-CAL5	10	3.456932E+07	3456932.000	7.42
OB01012-CAL6	25	9.101382E+07	3640553.000	7.42
OB01012-CAL7	50	1.6742E+08	3348400.000	7.42
OB01012-CAL8	100	3.774805E+08	3774805.000	7.42
OB01012-CAL9	200	7.29671E+08	3648355.000	7.42

AVE RF 3672263.000 RF RSD 6.21 AVE RT 7.42

4,4'-DDE

Curve Fit: **AVERAGE RF**

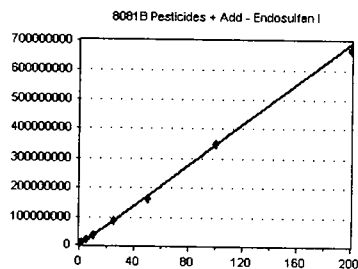


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1628951	3257902.000	7.49
OB01012-CAL2	1	2976091	2976091.000	7.49
OB01012-CAL3	2	6364080	3182040.000	7.49
OB01012-CAL4	5	1.590245E+07	3180490.000	7.49
OB01012-CAL5	10	3.207276E+07	3207276.000	7.49
OB01012-CAL6	25	8.267964E+07	3307186.000	7.49
OB01012-CAL7	50	1.680016E+08	3360032.000	7.49
OB01012-CAL8	100	3.787441E+08	3787441.000	7.49
OB01012-CAL9	200	7.257395E+08	3628698.000	7.49

AVE RF 3320795.000 RF RSD 7.44 AVE RT 7.49

Endosulfan I

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1932337	3864674.000	7.52
OB01012-CAL2	1	3593891	3593891.000	7.52
OB01012-CAL3	2	6684329	3342165.000	7.52
OB01012-CAL4	5	1.70331E+07	3406620.000	7.52
OB01012-CAL5	10	3.474804E+07	3474804.000	7.52
OB01012-CAL6	25	8.544442E+07	3417777.000	7.52
OB01012-CAL7	50	1.639408E+08	3278816.000	7.52
OB01012-CAL8	100	3.494908E+08	3494908.000	7.52
OB01012-CAL9	200	6.689564E+08	3344782.000	7.52

AVE RF 3468715.000 RF RSD 5.07 AVE RT 7.52

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

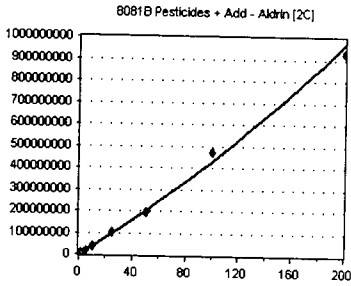
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Aldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

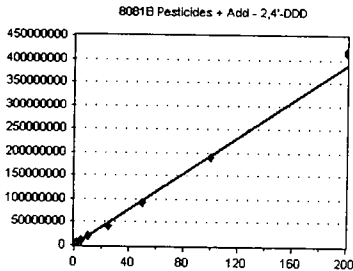


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1887335	3774670.000	7.54
OB01012-CAL2	1	3540234	3540234.000	7.54
OB01012-CAL3	2	7212786	3606393.000	7.54
OB01012-CAL4	5	1.826029E+07	3652058.000	7.54
OB01012-CAL5	10	3.695242E+07	3695242.000	7.54
OB01012-CAL6	25	1.033046E+08	4132184.000	7.54
OB01012-CAL7	50	1.958379E+08	3916758.000	7.54
OB01012-CAL8	100	4.720136E+08	4720136.000	7.54
OB01012-CAL9	200	9.288088E+08	4644044.000	7.54

AVE RF 3964635.000 RF RSD 11.20 AVE RT 7.54

2,4'-DDD

Curve Fit: **AVERAGE RF**

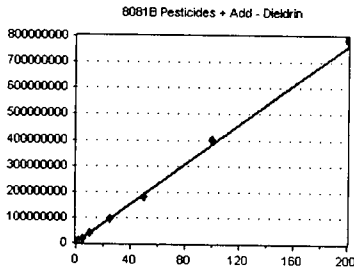


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1111537	2223074.000	7.62
OB01012-CALB	1	1934222	1934222.000	7.61
OB01012-CALC	2	3838920	1919460.000	7.61
OB01012-CALD	5	9882639	1976528.000	7.61
OB01012-CALE	10	1.853462E+07	1853462.000	7.61
OB01012-CALF	25	4.220343E+07	1688137.000	7.61
OB01012-CALG	50	9.313354E+07	1862671.000	7.61
OB01012-CALH	100	1.888996E+08	1888996.000	7.61
OB01012-CALI	200	4.169259E+08	2084630.000	7.61

AVE RF 1936798.000 RF RSD 7.79 AVE RT 7.61

Dieldrin

Curve Fit: **AVERAGE RF**

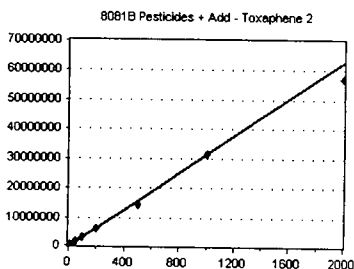


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1958633	3917266.000	7.69
OB01012-CAL2	1	3771816	3771816.000	7.69
OB01012-CAL3	2	7527776	3763888.000	7.69
OB01012-CAL4	5	1.875276E+07	3750552.000	7.69
OB01012-CAL5	10	3.72983E+07	3729830.000	7.69
OB01012-CAL6	25	9.58688E+07	3834752.000	7.69
OB01012-CAL7	50	1.79484E+08	3589680.000	7.69
OB01012-CAL8	100	4.028113E+08	4028113.000	7.69
OB01012-CAL9	200	7.869162E+08	3934581.000	7.69

AVE RF 3813386.000 RF RSD 3.43 AVE RT 7.69

Toxaphene 2

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	357259	35725.900	7.69
OB01012-CALR	50	1682151	33643.020	7.69
OB01012-CALS	100	3171817	31718.170	7.69
OB01012-CALT	200	6077785	30388.930	7.69
OB01012-CALU	500	1.428352E+07	28567.040	7.69
OB01012-CALV	1000	3.129069E+07	31290.690	7.69
OB01012-CALW	2000	5.714863E+07	28574.320	7.69

AVE RF 31415.440 RF RSD 8.31 AVE RT 7.69

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

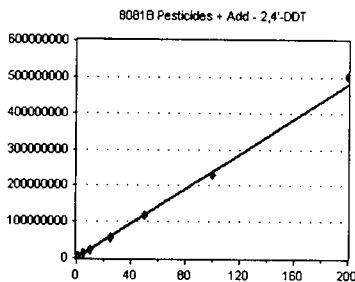
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

2,4'-DDT

Curve Fit: **AVERAGE RF**

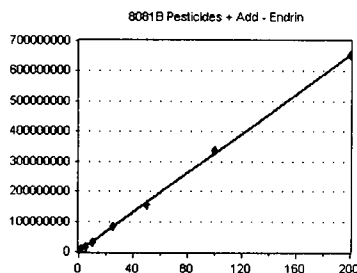


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1418724	2837448.000	7.80
OB01012-CALB	1	2374152	2374152.000	7.80
OB01012-CALC	2	4727347	2363674.000	7.80
OB01012-CALD	5	1.187289E+07	2374578.000	7.80
OB01012-CALE	10	2.292821E+07	2292821.000	7.80
OB01012-CALF	25	5.360788E+07	2144315.000	7.79
OB01012-CALG	50	1.171116E+08	2342232.000	7.79
OB01012-CALH	100	2.298646E+08	2298646.000	7.79
OB01012-CALI	200	5.020763E+08	2510382.000	7.79

AVE RF 2393139.000 **RF RSD** 8.04 **AVE RT** 7.79

Endrin

Curve Fit: **AVERAGE RF**

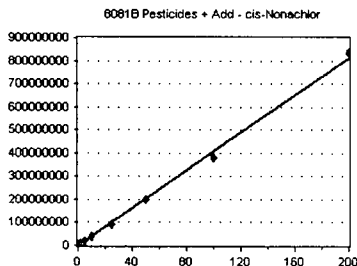


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1701747	3403494.000	7.85
OB01012-CAL2	1	3307872	3307872.000	7.85
OB01012-CAL3	2	6440400	3220200.000	7.85
OB01012-CAL4	5	1.615376E+07	3230752.000	7.85
OB01012-CAL5	10	3.134902E+07	3134902.000	7.85
OB01012-CAL6	25	8.285862E+07	3314345.000	7.85
OB01012-CAL7	50	1.550496E+08	3100992.000	7.85
OB01012-CAL8	100	3.384351E+08	3384351.000	7.85
OB01012-CAL9	200	6.5517E+08	3275850.000	7.85

AVE RF 3263640.000 **RF RSD** 3.15 **AVE RT** 7.85

cis-Nonachlor

Curve Fit: **AVERAGE RF**

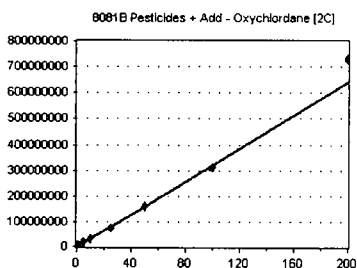


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	2296885	4593770.000	7.89
OB01012-CALB	1	4089263	4089263.000	7.89
OB01012-CALC	2	8283514	4141757.000	7.89
OB01012-CALD	5	2.060596E+07	4121192.000	7.89
OB01012-CALE	10	4.043669E+07	4043669.000	7.89
OB01012-CALF	25	9.155034E+07	3662014.000	7.89
OB01012-CALG	50	2.000893E+08	4001786.000	7.89
OB01012-CALH	100	3.793441E+08	3793441.000	7.89
OB01012-CALI	200	8.356395E+08	4178198.000	7.88

AVE RF 4069454.000 **RF RSD** 6.40 **AVE RT** 7.89

Oxychlorthane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1817597	3635194.000	7.91
OB01012-CALB	1	3174792	3174792.000	7.91
OB01012-CALC	2	6050162	3025081.000	7.91
OB01012-CALD	5	1.550996E+07	3101992.000	7.91
OB01012-CALE	10	2.989029E+07	2989029.000	7.91
OB01012-CALF	25	7.158479E+07	2863392.000	7.91
OB01012-CALG	50	1.607071E+08	3214142.000	7.91
OB01012-CALH	100	3.127713E+08	3127713.000	7.91
OB01012-CALI	200	7.303451E+08	3651726.000	7.91

AVE RF 3198118.000 **RF RSD** 8.55 **AVE RT** 7.91

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

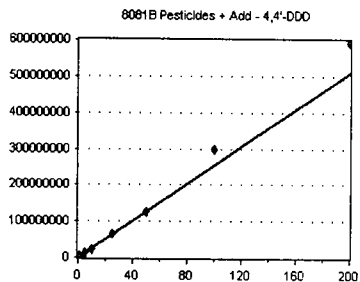
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

4,4'-DDD

Curve Fit: **AVERAGE RF**

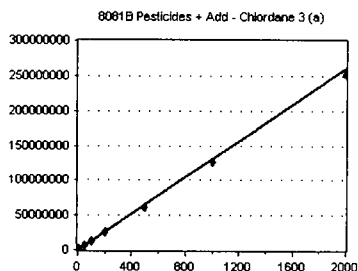


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1218671	2437342.000	7.92
OB01012-CAL2	1	2373048	2373048.000	7.91
OB01012-CAL3	2	4683505	2341753.000	7.91
OB01012-CAL4	5	1.173723E+07	2347446.000	7.91
OB01012-CAL5	10	2.42592E+07	2425920.000	7.91
OB01012-CAL6	25	6.337781E+07	2535112.000	7.91
OB01012-CAL7	50	1.253068E+08	2506136.000	7.91
OB01012-CAL8	100	2.97655E+08	2976550.000	7.91
OB01012-CAL9	200	5.92314E+08	2961570.000	7.91

AVE RF 2544986.000 **RF RSD** 9.79 **AVE RT** 7.91

Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

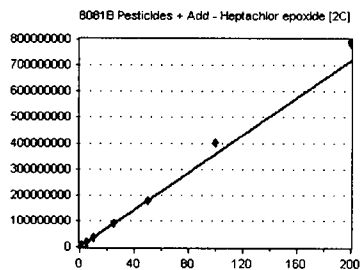


Standard	Concentration	Response	Response Factor	RT
OB01012-CALJ	10	1477991	147799.100	7.97
OB01012-CALK	50	6361865	127237.300	7.97
OB01012-CALL	100	1.303182E+07	130318.200	7.97
OB01012-CALM	200	2.587346E+07	129367.300	7.97
OB01012-CALN	500	6.1785E+07	123570.000	7.97
OB01012-CALO	1000	1.265223E+08	126522.300	7.97
OB01012-CALP	2000	2.531359E+08	126568.000	7.97

AVE RF 130197.500 **RF RSD** 6.19 **AVE RT** 7.97

Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

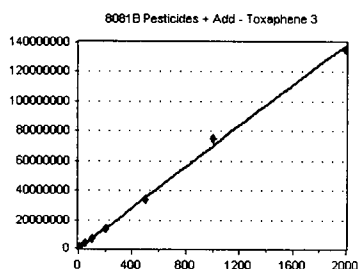


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1829309	3658618.000	7.98
OB01012-CAL2	1	3563306	3563306.000	7.98
OB01012-CAL3	2	6383239	3191620.000	7.98
OB01012-CAL4	5	1.666379E+07	332758.000	7.98
OB01012-CAL5	10	3.36899E+07	3368990.000	7.98
OB01012-CAL6	25	9.069309E+07	3627724.000	7.98
OB01012-CAL7	50	1.789132E+08	3578264.000	7.98
OB01012-CAL8	100	4.042626E+08	4042626.000	7.98
OB01012-CAL9	200	7.887333E+08	3943667.000	7.98

AVE RF 3589730.000 **RF RSD** 7.70 **AVE RT** 7.98

Toxaphene 3

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	923034	92303.400	8.01
OB01012-CALR	50	3882297	77645.940	8.00
OB01012-CALS	100	7108085	71080.850	8.00
OB01012-CALT	200	1.395566E+07	69778.300	8.00
OB01012-CALU	500	3.382787E+07	67655.740	8.00
OB01012-CALV	1000	7.486939E+07	74869.390	8.00
OB01012-CALW	2000	1.348564E+08	67428.200	8.00

AVE RF 74394.550 **RF RSD** 11.74 **AVE RT** 8.00

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

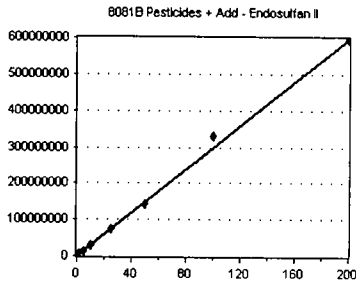
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endosulfan II

Curve Fit: **AVERAGE RF**

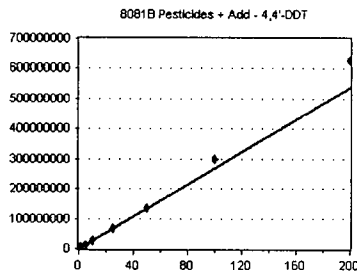


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1650694	3301388.000	8.01
OB01012-CAL2	1	3004856	3004856.000	8.01
OB01012-CAL3	2	5851117	2925559.000	8.01
OB01012-CAL4	5	1.400165E+07	2800330.000	8.01
OB01012-CAL5	10	2.818935E+07	2818935.000	8.01
OB01012-CAL6	25	7.334226E+07	2933690.000	8.01
OB01012-CAL7	50	1.418549E+08	2837098.000	8.01
OB01012-CAL8	100	3.318899E+08	3318899.000	8.01
OB01012-CAL9	200	5.966484E+08	2983242.000	8.01

AVE RF 2991555.000 RF RSD 6.49 AVE RT 8.01

4,4'-DDT

Curve Fit: **AVERAGE RF**

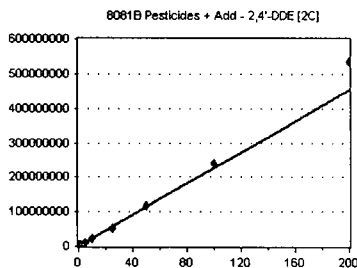


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1351757	2703514.000	8.11
OB01012-CAL2	1	2497592	2497592.000	8.11
OB01012-CAL3	2	4907038	2453519.000	8.11
OB01012-CAL4	5	1.263265E+07	2526530.000	8.11
OB01012-CAL5	10	2.469228E+07	2469228.000	8.11
OB01012-CAL6	25	6.809745E+07	2723898.000	8.11
OB01012-CAL7	50	1.347993E+08	2695986.000	8.11
OB01012-CAL8	100	2.988081E+08	2988081.000	8.11
OB01012-CAL9	200	6.271791E+08	3135895.000	8.11

AVE RF 2688249.000 RF RSD 8.89 AVE RT 8.11

2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

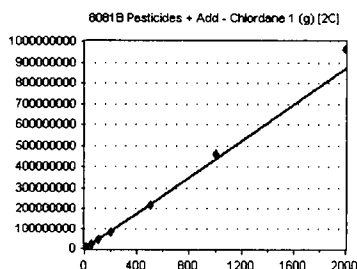


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1200073	2400146.000	8.11
OB01012-CALB	1	2104301	2104301.000	8.11
OB01012-CALC	2	4260806	2130403.000	8.11
OB01012-CALD	5	1.090641E+07	2181282.000	8.11
OB01012-CALE	10	2.19581E+07	2195810.000	8.11
OB01012-CALF	25	5.111336E+07	2044534.000	8.11
OB01012-CALG	50	1.17141E+08	2342820.000	8.11
OB01012-CALH	100	2.384413E+08	2384413.000	8.11
OB01012-CALI	200	5.346824E+08	2673412.000	8.11

AVE RF 2273013.000 RF RSD 8.65 AVE RT 8.11

Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALJ	10	4084683	408468.300	8.12
OB01012-CALK	50	2.01342E+07	402684.000	8.12
OB01012-CALL	100	4.333219E+07	433321.900	8.12
OB01012-CALM	200	8.36751E+07	418375.500	8.12
OB01012-CALN	500	2.179744E+08	435948.800	8.12
OB01012-CALO	1000	4.61118E+08	461118.000	8.12
OB01012-CALP	2000	9.628295E+08	481414.800	8.12

AVE RF 434475.900 RF RSD 6.55 AVE RT 8.12

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

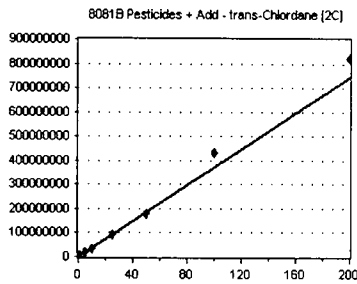
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

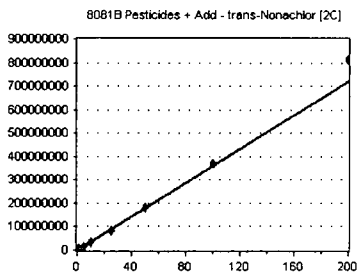


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1923989	3847978.000	8.12
0B01012-CAL2	1	3473086	3473086.000	8.12
0B01012-CAL3	2	6824804	3412402.000	8.12
0B01012-CAL4	5	1.70644E+07	3412880.000	8.12
0B01012-CAL5	10	3.494534E+07	3494534.000	8.12
0B01012-CAL6	25	9.410738E+07	3764295.000	8.12
0B01012-CAL7	50	1.812278E+08	3624556.000	8.12
0B01012-CAL8	100	4.326647E+08	4326647.000	8.12
0B01012-CAL9	200	8.218424E+08	4109212.000	8.12

AVE RF 3718399.000 RF RSD 8.75 AVE RT 8.12

trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

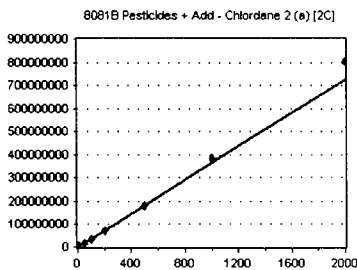


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2004659	4009318.000	8.18
0B01012-CALB	1	3680280	3680280.000	8.18
0B01012-CALC	2	6830472	3415236.000	8.18
0B01012-CALD	5	1.698707E+07	3397414.000	8.18
0B01012-CALE	10	3.440216E+07	3440216.000	8.18
0B01012-CALF	25	8.078905E+07	3231562.000	8.18
0B01012-CALG	50	1.792028E+08	3584056.000	8.18
0B01012-CALH	100	3.675612E+08	3675612.000	8.18
0B01012-CALI	200	8.103848E+08	4051924.000	8.18

AVE RF 3609513.000 RF RSD 7.71 AVE RT 8.18

Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**

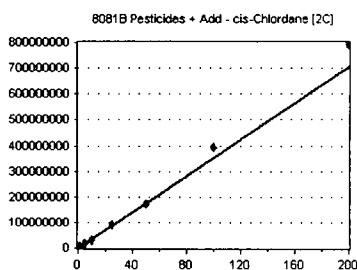


Standard	Concentration	Response	Response Factor	RT
0B01012-CALJ	10	3718290	371829.000	8.23
0B01012-CALK	50	1.591002E+07	318200.400	8.23
0B01012-CALL	100	3.522198E+07	352219.800	8.23
0B01012-CALM	200	7.06827E+07	353413.500	8.23
0B01012-CALN	500	1.819715E+08	363943.000	8.23
0B01012-CALO	1000	3.848055E+08	384805.500	8.23
0B01012-CALP	2000	8.009549E+08	400477.400	8.23

AVE RF 363555.500 RF RSD 7.25 AVE RT 8.23

cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1851957	3703914.000	8.23
0B01012-CAL2	1	3361292	3361292.000	8.23
0B01012-CAL3	2	6414031	3207016.000	8.23
0B01012-CAL4	5	1.606124E+07	3212248.000	8.23
0B01012-CAL5	10	3.204669E+07	3204669.000	8.23
0B01012-CAL6	25	9.099102E+07	3639641.000	8.23
0B01012-CAL7	50	1.730353E+08	3460706.000	8.23
0B01012-CAL8	100	3.950725E+08	3950725.000	8.23
0B01012-CAL9	200	7.927768E+08	3963884.000	8.23

AVE RF 3522677.000 RF RSD 8.70 AVE RT 8.23

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

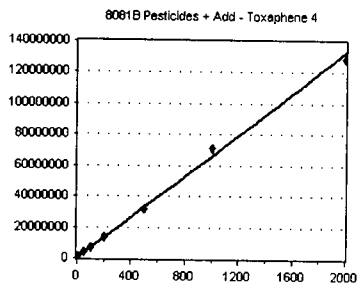
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Toxaphene 4

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

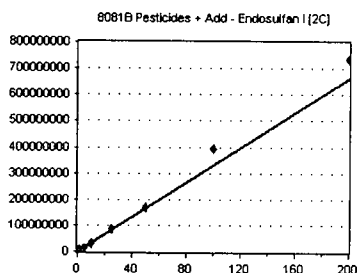


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	1100625	110062.500	8.25
OB01012-CALR	50	3672237	73444.740	8.25
OB01012-CALS	100	6856793	68567.930	8.25
OB01012-CALT	200	1.355915E+07	67795.750	8.25
OB01012-CALU	500	3.170131E+07	63402.620	8.25
OB01012-CALV	1000	7.126714E+07	71267.130	8.25
OB01012-CALW	2000	1.289479E+08	64473.950	8.24

AVE RF 74144.950 **RF RSD** 21.88 **AVE RT** 8.25

Endosulfan I [2C]

Curve Fit: **AVERAGE RF**

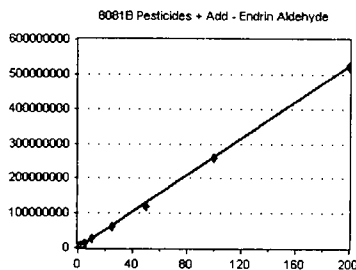


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1589681	3179362.000	8.28
OB01012-CAL2	1	3092501	3092501.000	8.28
OB01012-CAL3	2	6087483	3043742.000	8.28
OB01012-CAL4	5	1.497872E+07	2995744.000	8.28
OB01012-CAL5	10	3.064788E+07	3064788.000	8.28
OB01012-CAL6	25	8.565336E+07	3426135.000	8.28
OB01012-CAL7	50	1.67437E+08	3348740.000	8.28
OB01012-CAL8	100	3.925215E+08	3925215.000	8.28
OB01012-CAL9	200	7.337262E+08	3668631.000	8.28

AVE RF 3304984.000 **RF RSD** 9.66 **AVE RT** 8.28

Endrin Aldehyde

Curve Fit: **AVERAGE RF**

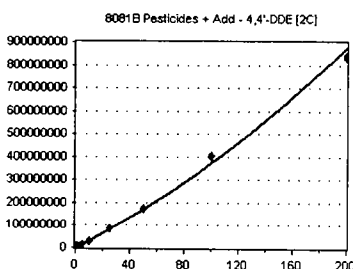


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1534740	3069480.000	8.30
OB01012-CAL2	1	2830842	2830842.000	8.30
OB01012-CAL3	2	5465292	2732646.000	8.30
OB01012-CAL4	5	1.259007E+07	2518014.000	8.30
OB01012-CAL5	10	2.511112E+07	2511112.000	8.30
OB01012-CAL6	25	6.177681E+07	2471072.000	8.30
OB01012-CAL7	50	1.185638E+08	2371276.000	8.30
OB01012-CAL8	100	2.586035E+08	2586035.000	8.30
OB01012-CAL9	200	5.206805E+08	2603403.000	8.30

AVE RF 2632653.000 **RF RSD** 8.12 **AVE RT** 8.30

4,4'-DDE [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1346237	2692474.000	8.33
OB01012-CAL2	1	2684993	2684993.000	8.33
OB01012-CAL3	2	5670683	2835342.000	8.33
OB01012-CAL4	5	1.485957E+07	2971914.000	8.33
OB01012-CAL5	10	3.019524E+07	3019524.000	8.33
OB01012-CAL6	25	8.676414E+07	3470566.000	8.33
OB01012-CAL7	50	1.751903E+08	3503806.000	8.33
OB01012-CAL8	100	4.059366E+08	4059366.000	8.33
OB01012-CAL9	200	8.351139E+08	4175570.000	8.33

AVE RF 3268173.000 **RF RSD** 17.29 **AVE RT** 8.33

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

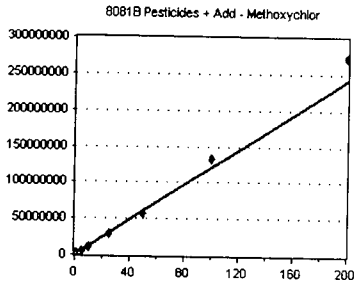
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Methoxychlor

Curve Fit: **AVERAGE RF**

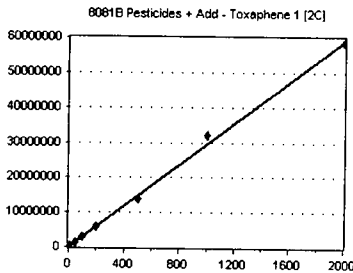


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	650344	1300688.000	8.45
OB01012-CAL2	1	1197106	1197106.000	8.45
OB01012-CAL3	2	2268598	1134299.000	8.45
OB01012-CAL4	5	5565381	1113076.000	8.45
OB01012-CAL5	10	1.123088E+07	1123088.000	8.45
OB01012-CAL6	25	2.898057E+07	1159223.000	8.45
OB01012-CAL7	50	5.674386E+07	1134877.000	8.45
OB01012-CAL8	100	1.331207E+08	1331207.000	8.45
OB01012-CAL9	200	2.7324E+08	1366200.000	8.45

AVE RF 1206640.000 **RF RSD** 8.20 **AVE RT** 8.45

Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

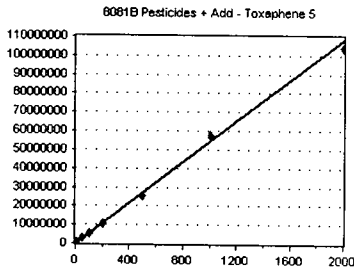


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	273928	27392.800	8.46
OB01012-CALR	50	1457893	29157.860	8.46
OB01012-CALS	100	3039636	30396.360	8.46
OB01012-CALT	200	5983532	29917.660	8.45
OB01012-CALU	500	1.399106E+07	27982.120	8.45
OB01012-CALV	1000	3.202091E+07	32020.910	8.45
OB01012-CALW	2000	5.883012E+07	29415.060	8.45

AVE RF 29468.970 **RF RSD** 5.22 **AVE RT** 8.45

Toxaphene 5

Curve Fit: **AVERAGE RF**

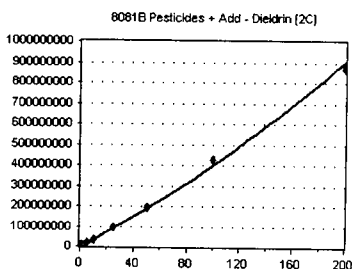


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	585949	58594.900	8.47
OB01012-CALR	50	2698036	53960.720	8.47
OB01012-CALS	100	5268375	52683.750	8.47
OB01012-CALT	200	1.072372E+07	53618.600	8.47
OB01012-CALU	500	2.545497E+07	50909.940	8.47
OB01012-CALV	1000	5.760498E+07	57604.980	8.47
OB01012-CALW	2000	1.040872E+08	52043.600	8.47

AVE RF 54202.360 **RF RSD** 5.28 **AVE RT** 8.47

Dieldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1711724	3423448.000	8.48
OB01012-CAL2	1	3204188	3204188.000	8.48
OB01012-CAL3	2	6556953	3278477.000	8.48
OB01012-CAL4	5	1.689616E+07	3379232.000	8.48
OB01012-CAL5	10	3.498248E+07	3498248.000	8.48
OB01012-CAL6	25	9.588393E+07	3835357.000	8.48
OB01012-CAL7	50	1.92135E+08	3842700.000	8.48
OB01012-CAL8	100	4.251472E+08	4251472.000	8.48
OB01012-CAL9	200	8.711686E+08	4355843.000	8.48

AVE RF 3674329.000 **RF RSD** 11.43 **AVE RT** 8.48

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

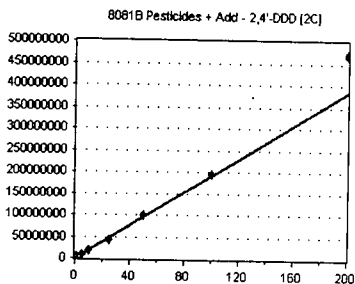
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

2,4'-DDD [2C]

Curve Fit: **AVERAGE RF**

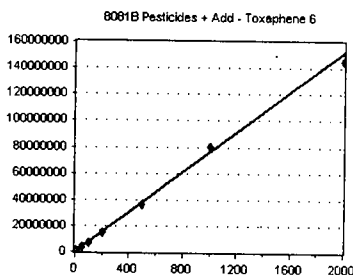


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	960869	1921738.000	8.49
OB01012-CALB	1	1795089	1795089.000	8.49
OB01012-CALC	2	3680145	1840073.000	8.49
OB01012-CALD	5	9298557	1859711.000	8.49
OB01012-CALE	10	1.806277E+07	1806277.000	8.48
OB01012-CALF	25	4.296202E+07	1718481.000	8.49
OB01012-CALG	50	9.924723E+07	1984945.000	8.48
OB01012-CALH	100	1.955472E+08	1955472.000	8.48
OB01012-CALI	200	4.693478E+08	2346739.000	8.48

AVE RF 1914280.000 **RF RSD** 9.53 **AVE RT** 8.48

Toxaphene 6

Curve Fit: **AVERAGE RF**

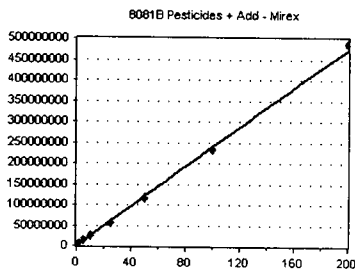


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	844549	84454.900	8.54
OB01012-CALR	50	3790810	75816.200	8.54
OB01012-CALS	100	7293127	72931.270	8.54
OB01012-CALT	200	1.482303E+07	74115.150	8.54
OB01012-CALU	500	3.599046E+07	71980.920	8.54
OB01012-CALV	1000	8.042554E+07	80425.540	8.54
OB01012-CALW	2000	1.453094E+08	72654.700	8.54

AVE RF 76054.100 **RF RSD** 6.15 **AVE RT** 8.54

Mirex

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

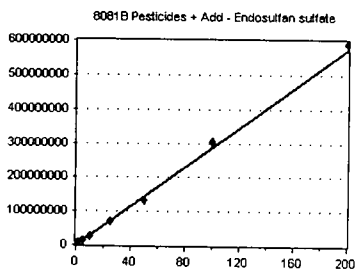


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1693083	3386166.000	8.55
OB01012-CALB	1	2918797	2918797.000	8.55
OB01012-CALC	2	5534484	2767242.000	8.55
OB01012-CALD	5	1.332253E+07	2664506.000	8.55
OB01012-CALE	10	2.54303E+07	2543030.000	8.55
OB01012-CALF	25	5.582939E+07	2233176.000	8.55
OB01012-CALG	50	1.171366E+08	2342732.000	8.55
OB01012-CALH	100	2.327329E+08	2327329.000	8.55
OB01012-CALI	200	4.87218E+08	2436090.000	8.55

AVE RF 2624341.000 **RF RSD** 13.82 **AVE RT** 8.55

Endosulfan sulfate

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1548557	3097114.000	8.60
OB01012-CAL2	1	2921925	2921925.000	8.60
OB01012-CAL3	2	5585397	2792699.000	8.60
OB01012-CAL4	5	1.384389E+07	2768778.000	8.60
OB01012-CAL5	10	2.704278E+07	2704278.000	8.60
OB01012-CAL6	25	7.001342E+07	2800537.000	8.60
OB01012-CAL7	50	1.33861E+08	2677220.000	8.60
OB01012-CAL8	100	3.044524E+08	3044524.000	8.60
OB01012-CAL9	200	5.905002E+08	2952501.000	8.60

AVE RF 2862175.000 **RF RSD** 5.19 **AVE RT** 8.60

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

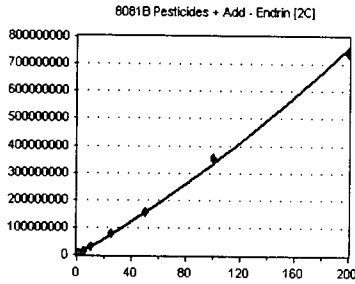
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

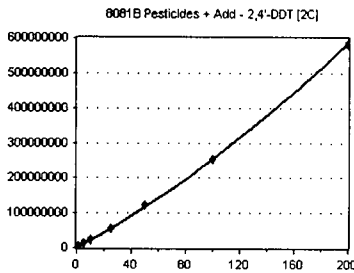


Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1499119	2998238.000	8.71
0B01012-CAL2	1	2810308	2810308.000	8.71
0B01012-CAL3	2	5547721	2773861.000	8.71
0B01012-CAL4	5	1.387609E+07	2775218.000	8.71
0B01012-CAL5	10	2.91605E+07	2916050.000	8.71
0B01012-CAL6	25	7.939983E+07	3175993.000	8.71
0B01012-CAL7	50	1.539787E+08	3079574.000	8.71
0B01012-CAL8	100	3.544835E+08	3544835.000	8.71
0B01012-CAL9	200	7.386292E+08	3693146.000	8.71

AVE RF 3085247.000 RF RSD 10.83 AVE RT 8.71

2,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

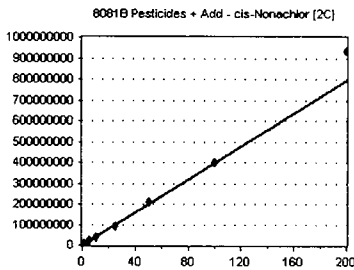


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	1210132	2420264.000	8.71
0B01012-CALB	1	2100185	2100185.000	8.71
0B01012-CALC	2	4187285	2093643.000	8.71
0B01012-CALD	5	1.135804E+07	2271608.000	8.71
0B01012-CALE	10	2.213786E+07	2213786.000	8.71
0B01012-CALF	25	5.372345E+07	2148938.000	8.71
0B01012-CALG	50	1.227566E+08	2455132.000	8.71
0B01012-CALH	100	2.535689E+08	2535689.000	8.71
0B01012-CALI	200	5.836223E+08	2918111.000	8.71

AVE RF 2350817.000 RF RSD 11.32 AVE RT 8.71

cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

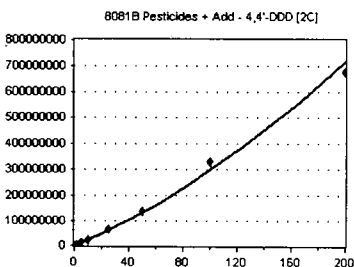


Standard	Concentration	Response	Response Factor	RT
0B01012-CALA	0.5	2084280	4168560.000	8.75
0B01012-CALB	1	3801985	3801985.000	8.75
0B01012-CALC	2	7352547	3676274.000	8.75
0B01012-CALD	5	1.958534E+07	3917068.000	8.75
0B01012-CALE	10	3.83258E+07	3832580.000	8.75
0B01012-CALF	25	9.038487E+07	3615395.000	8.75
0B01012-CALG	50	2.092537E+08	4185074.000	8.75
0B01012-CALH	100	3.989475E+08	3989475.000	8.75
0B01012-CALI	200	9.36115E+08	4680575.000	8.75

AVE RF 3985221.000 RF RSD 8.18 AVE RT 8.75

4,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0B01012-CAL1	0.5	1119384	2238768.000	8.75
0B01012-CAL2	1	2115078	2115078.000	8.75
0B01012-CAL3	2	4350712	2175356.000	8.75
0B01012-CAL4	5	1.125402E+07	2250804.000	8.75
0B01012-CAL5	10	2.275793E+07	2275793.000	8.75
0B01012-CAL6	25	6.517722E+07	2607089.000	8.75
0B01012-CAL7	50	1.364753E+08	2729506.000	8.75
0B01012-CAL8	100	3.300586E+08	3300586.000	8.75
0B01012-CAL9	200	6.796638E+08	3398319.000	8.75

AVE RF 2565700.000 RF RSD 19.03 AVE RT 8.75

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

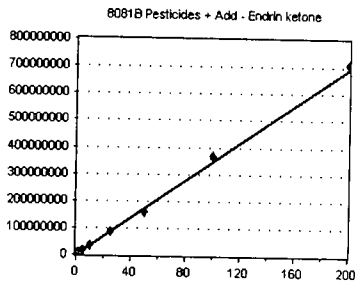
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin ketone

Curve Fit: **AVERAGE RF**

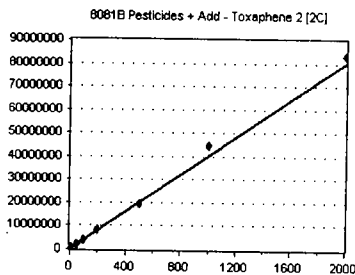


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1865728	3731456.000	8.80
OB01012-CAL2	1	3540934	3540934.000	8.80
OB01012-CAL3	2	6824708	3412354.000	8.80
OB01012-CAL4	5	1.662305E+07	3324610.000	8.80
OB01012-CAL5	10	3.267614E+07	3267614.000	8.80
OB01012-CAL6	25	8.55853E+07	3423412.000	8.80
OB01012-CAL7	50	1.597879E+08	3195758.000	8.80
OB01012-CAL8	100	3.667893E+08	3667893.000	8.80
OB01012-CAL9	200	7.088007E+08	3544004.000	8.80

AVE RF 3456448.000 RF RSD 5.21 AVE RT 8.80

Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**

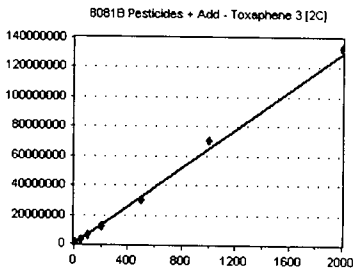


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	364064	36406.400	8.80
OB01012-CALR	50	1899624	37992.480	8.80
OB01012-CALS	100	4024499	40244.990	8.80
OB01012-CALT	200	8295354	41476.770	8.80
OB01012-CALU	500	1.937513E+07	38750.260	8.80
OB01012-CALV	1000	4.495241E+07	44952.410	8.80
OB01012-CALW	2000	8.299866E+07	41499.330	8.80

AVE RF 40188.950 RF RSD 6.98 AVE RT 8.80

Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

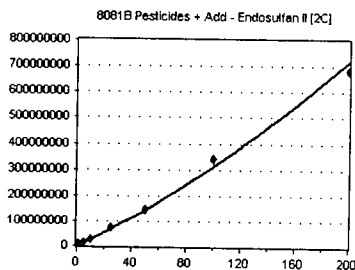


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	694351	69435.100	8.84
OB01012-CALR	50	3122967	62459.340	8.84
OB01012-CALS	100	6231660	62316.600	8.84
OB01012-CALT	200	1.240684E+07	62034.200	8.84
OB01012-CALU	500	3.008388E+07	60167.760	8.84
OB01012-CALV	1000	7.000674E+07	70006.730	8.84
OB01012-CALW	2000	1.329104E+08	66455.200	8.84

AVE RF 64696.420 RF RSD 6.05 AVE RT 8.84

Endosulfan II [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1442453	2884906.000	8.85
OB01012-CAL2	1	2617481	2617481.000	8.86
OB01012-CAL3	2	5197583	2598792.000	8.85
OB01012-CAL4	5	1.268667E+07	2537334.000	8.85
OB01012-CAL5	10	2.593768E+07	2593768.000	8.85
OB01012-CAL6	25	7.303019E+07	2921208.000	8.85
OB01012-CAL7	50	1.461509E+08	2923018.000	8.85
OB01012-CAL8	100	3.418956E+08	3418956.000	8.85
OB01012-CAL9	200	6.847817E+08	3423909.000	8.85

AVE RF 2879930.000 RF RSD 11.88 AVE RT 8.85

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

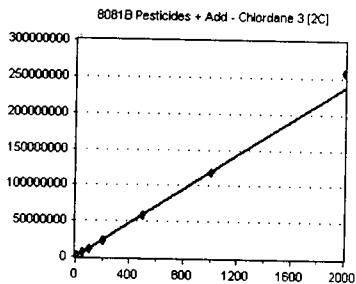
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Chlordane 3 [2C]

Curve Fit: **AVERAGE RF**

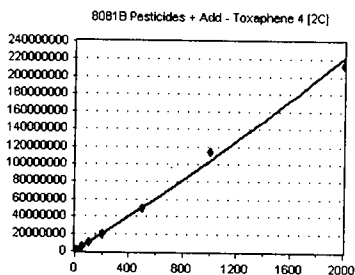


Standard	Concentration	Response	Response Factor	RT
OB01012-CALJ	10	1246903	124690.300	8.89
OB01012-CALK	50	5712561	114251.200	8.89
OB01012-CALL	100	1.164798E+07	116479.800	8.89
OB01012-CALM	200	2.214872E+07	110743.600	8.89
OB01012-CALN	500	5.849682E+07	116993.600	8.89
OB01012-CALO	1000	1.188456E+08	118845.600	8.89
OB01012-CALP	2000	2.585676E+08	129283.800	8.89

AVE RF 118755.400 RF RSD 5.31 AVE RT 8.89

Toxaphene 4 [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

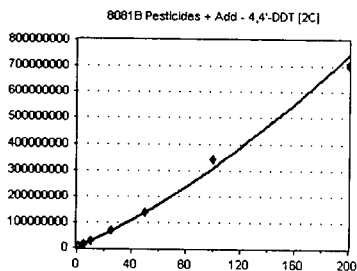


Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	1372328	137232.800	8.91
OB01012-CALR	50	5032751	100655.000	8.91
OB01012-CALS	100	1.007582E+07	100758.200	8.91
OB01012-CALT	200	1.995519E+07	99775.950	8.91
OB01012-CALU	500	4.883292E+07	97665.840	8.91
OB01012-CALV	1000	1.141068E+08	114106.800	8.91
OB01012-CALW	2000	2.126267E+08	106313.400	8.91

AVE RF 108072.600 RF RSD 12.95 AVE RT 8.91

4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

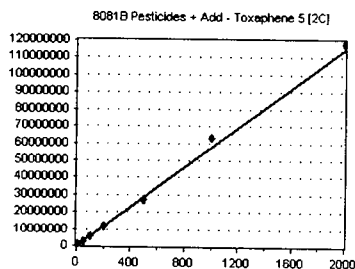


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1360505	2721010.000	8.98
OB01012-CAL2	1	2317293	2317293.000	8.98
OB01012-CAL3	2	4735251	2367626.000	8.98
OB01012-CAL4	5	1.163505E+07	2327010.000	8.98
OB01012-CAL5	10	2.513261E+07	2513261.000	8.98
OB01012-CAL6	25	7.053326E+07	2821331.000	8.98
OB01012-CAL7	50	1.384132E+08	2768264.000	8.98
OB01012-CAL8	100	3.40345E+08	3403450.000	8.98
OB01012-CAL9	200	7.064813E+08	3532407.000	8.98

AVE RF 2752406.000 RF RSD 16.32 AVE RT 8.98

Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	574323	57432.300	9.08
OB01012-CALR	50	2697421	53948.420	9.08
OB01012-CALS	100	5637073	56370.730	9.08
OB01012-CALT	200	1.148559E+07	57427.950	9.08
OB01012-CALU	500	2.705087E+07	54101.740	9.08
OB01012-CALV	1000	6.308424E+07	63084.240	9.08
OB01012-CALW	2000	1.178774E+08	58938.700	9.08

AVE RF 57329.150 RF RSD 5.45 AVE RT 9.08

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

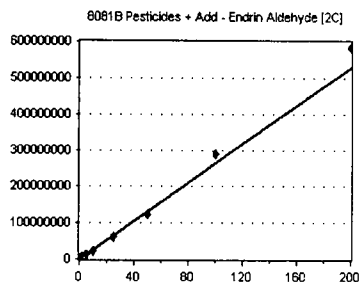
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_20020**

Endrin Aldehyde [2C]

Curve Fit: **AVERAGE RF**

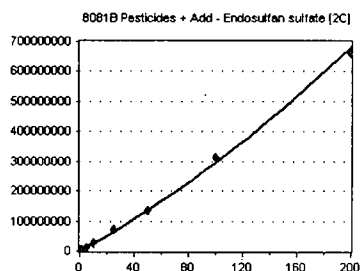


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1556354	3112708.000	9.09
OB01012-CAL2	1	2604623	2604623.000	9.09
OB01012-CAL3	2	5226313	2613157.000	9.09
OB01012-CAL4	5	1.183867E+07	2367734.000	9.09
OB01012-CAL5	10	2.362231E+07	2362231.000	9.09
OB01012-CAL6	25	6.095996E+07	2438399.000	9.09
OB01012-CAL7	50	1.234771E+08	2469542.000	9.09
OB01012-CAL8	100	2.899748E+08	2899748.000	9.09
OB01012-CAL9	200	5.850689E+08	2925345.000	9.09

AVE RF 2643721.000 **RF RSD** 10.32 **AVE RT** 9.09

Endosulfan sulfate [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

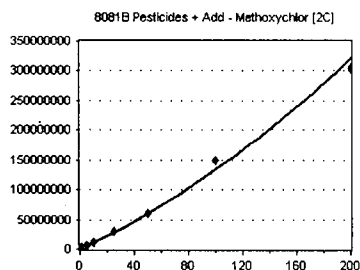


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	1535031	3070062.000	9.28
OB01012-CAL2	1	2490983	2490983.000	9.28
OB01012-CAL3	2	5212773	2606387.000	9.28
OB01012-CAL4	5	1.251823E+07	2503646.000	9.28
OB01012-CAL5	10	2.503622E+07	2503622.000	9.28
OB01012-CAL6	25	7.015802E+07	2806321.000	9.28
OB01012-CAL7	50	1.350653E+08	2701306.000	9.28
OB01012-CAL8	100	3.154474E+08	3154474.000	9.28
OB01012-CAL9	200	6.606305E+08	3303153.000	9.28

AVE RF 2793328.000 **RF RSD** 11.10 **AVE RT** 9.28

Methoxychlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

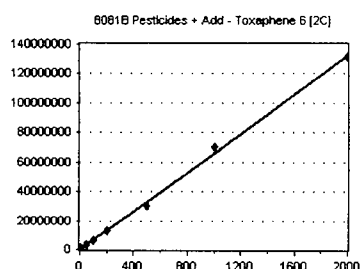


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	981544	1963088.000	9.46
OB01012-CAL2	1	1213779	1213779.000	9.45
OB01012-CAL3	2	2619150	1309575.000	9.46
OB01012-CAL4	5	5652133	1130427.000	9.45
OB01012-CAL5	10	1.086533E+07	1086533.000	9.46
OB01012-CAL6	25	3.016383E+07	1206553.000	9.45
OB01012-CAL7	50	6.027848E+07	1205570.000	9.45
OB01012-CAL8	100	1.490069E+08	1490069.000	9.45
OB01012-CAL9	200	3.043319E+08	1521660.000	9.45

AVE RF 1347473.000 **RF RSD** 20.39 **AVE RT** 9.45

Toxaphene 6 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OB01012-CALQ	10	749407	74940.700	9.46
OB01012-CALR	50	3159313	63186.260	9.46
OB01012-CALS	100	6347466	63474.660	9.46
OB01012-CALT	200	1.267592E+07	63379.600	9.46
OB01012-CALU	500	3.045114E+07	60902.280	9.46
OB01012-CALV	1000	7.06734E+07	70673.400	9.46
OB01012-CALW	2000	1.316398E+08	65819.900	9.46

AVE RF 66053.830 **RF RSD** 7.54 **AVE RT** 9.46

Element Calibration Review Sheet

Calibration ID: **A0B0404**

Instrument: **DUALECD8**

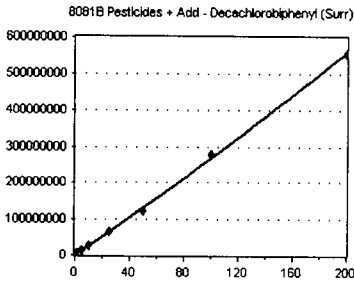
Calibration Date: **02/04/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8_QUANTPEST_2020**

Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

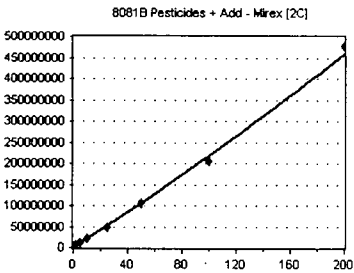


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2137981	4275962.000	9.51
OB01012-CAL2	1	3342363	3342363.000	9.51
OB01012-CAL3	2	6150705	3075353.000	9.51
OB01012-CAL4	5	1.355021E+07	2710042.000	9.51
OB01012-CAL5	10	2.660587E+07	2660587.000	9.51
OB01012-CAL6	25	6.645264E+07	2658106.000	9.51
OB01012-CAL7	50	1.233724E+08	2467448.000	9.51
OB01012-CAL8	100	2.800902E+08	2800902.000	9.51
OB01012-CAL9	200	5.543695E+08	2771847.000	9.51

AVE RF 2973623.000 RF RSD 18.56 AVE RT 9.51

Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

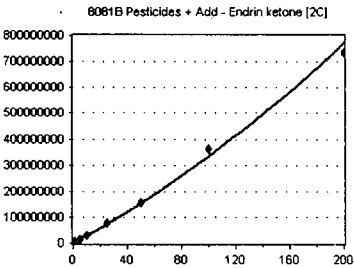


Standard	Concentration	Response	Response Factor	RT
OB01012-CALA	0.5	1475836	2951672.000	9.68
OB01012-CALB	1	2854711	2854711.000	9.67
OB01012-CALC	2	4870687	2435344.000	9.67
OB01012-CALD	5	1.146715E+07	2293430.000	9.67
OB01012-CALE	10	2.096208E+07	2096208.000	9.67
OB01012-CALF	25	4.778422E+07	1911369.000	9.67
OB01012-CALG	50	1.048365E+08	2096730.000	9.67
OB01012-CALH	100	2.041903E+08	2041903.000	9.67
OB01012-CALI	200	4.795865E+08	2397933.000	9.67

AVE RF 2342144.000 RF RSD 15.43 AVE RT 9.67

Endrin ketone [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

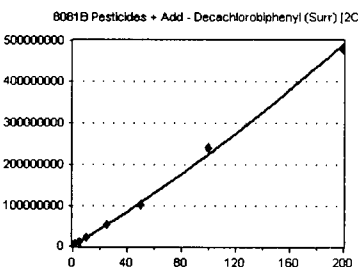


Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2135612	4271224.000	9.68
OB01012-CAL2	1	3121972	3121972.000	9.68
OB01012-CAL3	2	6091766	3045883.000	9.68
OB01012-CAL4	5	1.440246E+07	2880492.000	9.68
OB01012-CAL5	10	2.883066E+07	2883066.000	9.68
OB01012-CAL6	25	7.944938E+07	3177975.000	9.68
OB01012-CAL7	50	1.567381E+08	3134762.000	9.68
OB01012-CAL8	100	3.636936E+08	3636936.000	9.68
OB01012-CAL9	200	7.370275E+08	3685138.000	9.68

AVE RF 3315272.000 RF RSD 13.87 AVE RT 9.68

Decachlorobiphenyl (Surr) [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OB01012-CAL1	0.5	2121210	4242420.000	10.54
OB01012-CAL2	1	2619998	2619998.000	10.54
OB01012-CAL3	2	5371510	2685755.000	10.54
OB01012-CAL4	5	1.124264E+07	2248528.000	10.54
OB01012-CAL5	10	2.164163E+07	2164163.000	10.54
OB01012-CAL6	25	5.401791E+07	2160717.000	10.54
OB01012-CAL7	50	1.037977E+08	2075954.000	10.54
OB01012-CAL8	100	2.400362E+08	2400362.000	10.54
OB01012-CAL9	200	4.776297E+08	2388149.000	10.54

AVE RF 2554005.000 RF RSD 26.09 AVE RT 10.54

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

Analysis Included

1311/8081B TCLP Pest Reg List
1311/8081B TCLP Pest Reg List +ADD
1311/8081B TCLP Pesticides (All)
1311/8081B TCLP Pesticides + Add (All)
1312/8081B SPLP Pesticides
608 Additional Only (QC)
608 Pest (Chlordane)
608 Pesticides
608 Pesticides (DDT Only)
608 Pesticides (SW)
608 Pesticides (SW) Full List
608 Pesticides (TTO)
608.3 Pesticides
8081B Pesticides
8081B 2,4+4,4-DDx Only (+Add)
8081B Chlordane
8081B DDT Only
8081B Pesticides + Add
8081B Pesticides + Add (Diss)
8081B RSET FW Sed (+Add) (2016)
8081B RSET Sediment List (+Add)
8081B RSET Sediment Marine (2016) (+Add)
8081B Toxaphene

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

INSTRUMENT SEQUENCE LOG

SampleID	SampleName	Matrix	STDID	ISTD_ID	Analyzed
0B01012-ICB1	Initial Cal Blank	Water	A20A395		2/1/2020 3:09:00PM
0B01012-CAL1	Cal Standard	Water	A20B001	"	2/1/2020 3:26:00PM
0B01012-CAL2	Cal Standard	Water	A20B002	"	2/1/2020 3:43:00PM
0B01012-CAL3	Cal Standard	Water	A19K128	"	2/1/2020 4:00:00PM
0B01012-CAL4	Cal Standard	Water	A19K130	"	2/1/2020 4:16:00PM
0B01012-CAL5	Cal Standard	Water	A19K131	"	2/1/2020 4:33:00PM
0B01012-CAL6	Cal Standard	Water	A19K132	"	2/1/2020 4:50:00PM
0B01012-CAL7	Cal Standard	Water	A19K133	"	2/1/2020 5:07:00PM
0B01012-CAL8	Cal Standard	Water	A19K134	"	2/1/2020 5:24:00PM
0B01012-CAL9	Cal Standard	Water	A19K126	"	2/1/2020 5:41:00PM
0B01012-ICV1	Initial Cal Check	Water	A19I209	"	2/1/2020 6:14:00PM
0B01012-CALA	Cal Standard	Water	A20B003	"	2/1/2020 6:31:00PM
0B01012-CALB	Cal Standard	Water	A19K263	"	2/1/2020 6:48:00PM
0B01012-CALC	Cal Standard	Water	A19K264	"	2/1/2020 7:05:00PM
0B01012-CALD	Cal Standard	Water	A19K265	"	2/1/2020 7:22:00PM
0B01012-CALE	Cal Standard	Water	A19K266	"	2/1/2020 7:38:00PM
0B01012-CALF	Cal Standard	Water	A19J407	"	2/1/2020 7:55:00PM
0B01012-CALG	Cal Standard	Water	A19J408	"	2/1/2020 8:12:00PM
0B01012-CALH	Cal Standard	Water	A19J409	"	2/1/2020 8:29:00PM
0B01012-CALI	Cal Standard	Water	A19K262	"	2/1/2020 8:46:00PM
0B01012-ICV2	Initial Cal Check	Water	A19J410	"	2/1/2020 9:19:00PM
0B01012-CALJ	Cal Standard	Water	A20B004	"	2/1/2020 9:36:00PM
0B01012-CALK	Cal Standard	Water	A19K307	"	2/1/2020 9:53:00PM
0B01012-CALL	Cal Standard	Water	A19K308	"	2/1/2020 10:10:00PM
0B01012-CALM	Cal Standard	Water	A19K309	"	2/1/2020 10:27:00PM
0B01012-CALN	Cal Standard	Water	A19K310	"	2/1/2020 10:43:00PM
0B01012-CALO	Cal Standard	Water	A19K311	"	2/1/2020 11:00:00PM
0B01012-CALP	Cal Standard	Water	A19K306	"	2/1/2020 11:17:00PM
0B01012-ICV3	Initial Cal Check	Water	A19K312	"	2/1/2020 11:51:00PM
0B01012-CALQ	Cal Standard	Water	A20B005	"	2/2/2020 12:08:00AM
0B01012-CALR	Cal Standard	Water	A19J417	"	2/2/2020 12:24:00AM
0B01012-CALS	Cal Standard	Water	A19J418	"	2/2/2020 12:41:00AM
0B01012-CALT	Cal Standard	Water	A19J419	"	2/2/2020 12:58:00AM
0B01012-CALU	Cal Standard	Water	A19J420	"	2/2/2020 1:15:00AM
0B01012-CALV	Cal Standard	Water	A19J421	"	2/2/2020 1:32:00AM
0B01012-CALW	Cal Standard	Water	A19J416	"	2/2/2020 1:48:00AM
0B01012-ICV4	Initial Cal Check	Water	A19J422	"	2/2/2020 2:22:00AM

CALIBRATION STANDARD RECOVERIES

Calibration: **A0B0404**

Instrument: **DUALECD8F**

1311/8081B TCLP Pest Reg L

Sequence: **0B01012**

Matrix: **Water**

SampleID	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL1					
0B01012-CAL2					
0B01012-CAL3					

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

0B01012-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALV	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0B01012-CALW	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0B01012

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadratic fit compounds.

Analytes With Quadratic Curve Fits

Qualifier iMDL iMRL Spike Amt %Difference OK? Raise MRL to ?
 _____ _____

Analytes listed above have quadratic curve fits. If they are using a weighting option, they must be checked against the requested curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A0B0404**

Instrument: **DUALECD8F**

608.3 Pesticides

Sequence: **0B01012**

Matrix: **Water**

0B01012-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
0B01012-ICV2	Inst. MRL	ICV Level	Result	%Rec.	Qual
0B01012-ICV3	Inst. MRL	ICV Level	Result	%Rec.	Qual
0B01012-ICV4	Inst. MRL	ICV Level	Result	%Rec.	Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Compound List Report DUALECD8

Method Path : C:\msdchem\1\methods\
 Method File : ECD8_QUANTPEST_200201.M
 Title : Instrument: DualECD8
 Last Update : Mon Feb 03 15:36:51 2020
 Response Via : Initial Calibration

Total Cpnds : 85

MJB
2/2/20

PK#	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S TCMX (S)	5.297	1.000	A	H	R
2	a-BHC	5.837	1.000	A	H	R
3	g-BHC	6.119	1.000	A	H	R
4	b-BHC	6.197	1.000	A	H	R
5	Heptachlor	6.529	1.000	A	H	R
6	d-BHC	6.345	1.000	A	H	R
7	Aldrin	6.769	1.000	A	H	R
8	Heptachlor Expoxide	7.230	1.000	A	H	R
9	trans-Chlordane	7.326	1.000	A	H	R
10	cis-Chlordane	7.423	1.000	A	H	R
11	Endosulfan I	7.518	1.000	A	H	R
12	4,4'-DDE	7.490	1.000	A	H	R
13	Dieldrin	7.691	1.000	A	H	R
14	Endrin	7.854	1.000	A	H	R
15	4,4'-DDD	7.910	1.000	A	H	R
16	Endosulfan II	8.011	1.000	A	H	R
17	4,4'-DDT	8.109	1.000	A	H	R
18	Endrin Aldehyde	8.302	1.000	A	H	R
19	Endosulfan Sulfate	8.603	1.000	A	H	R
20	Methoxychlor	8.452	1.000	A	H	R
21	Endrin Ketone	8.797	1.000	A	H	R
22	S DCBP (S)	9.507	1.000	A	H	R
23	Hexachlorobutadiene	3.080	1.000	A	H	R
24	Hexachlorobenzene	5.678	1.000	A	H	R
25	Oxychlordane	7.157	1.000	A	H	R
26	2,4'-DDE	7.238	1.000	A	H	R
27	trans-Nonachlor	7.414	1.000	A	H	R
28	2,4'-DDD	7.610	1.000	A	H	R
29	2,4'-DDT	7.793	1.000	A	H	R
30	cis-Nonachlor	7.885	1.000	A	H	R
31	Mirex	8.550	1.000	A	H	R
32	Chlordane (1)	7.326	1.000	A	H	R
33	Chlordane (2)	7.419	1.000	A	H	R
34	Chlordane (3)	7.966	1.000	A	H	R
35	Chlordane - AVE	0.000	1.000	A	H	R
36	Toxaphene (1)	7.399	1.000	A	H	R
37	Toxaphene (2)	7.691	1.000	A	H	R
38	Toxaphene (3)	8.002	1.000	A	H	R
39	Toxaphene (4)	8.244	1.000	A	H	R
40	Toxaphene (5)	8.471	1.000	A	H	R
41	Toxaphene (6)	8.538	1.000	A	H	R
42	Toxaphene - AVE	0.000	1.000	A	H	R
43	Signal #2	3.787	1.000	A	H	R
44	S TCMX (S) #2	5.981	1.000	A	H	R
45	a-BHC #2	6.584	1.000	A	H	R
46	g-BHC #2	6.902	1.000	A	H	R
47	b-BHC #2	6.966	1.000	A	H	R
48	Heptachlor #2	7.276	1.000	A	H	R
49	d-BHC #2	7.220	1.000	A	H	R
50	Aldrin #2	7.542	1.000	A	H	R
51	Heptachlor Expoxide #2	7.979	1.000	A	H	R
52	trans-Chlordane #2	8.119	1.000	A	H	R
53	cis-Chlordane #2	8.226	1.000	A	H	R
54	Endosulfan I #2	8.277	1.000	A	H	R
55	4,4'-DDE #2	8.331	1.000	A	H	R
56	Dieldrin #2	8.477	1.000	A	H	R

57	Endrin #2	8.705	1.000	Q	H	R
58	4,4'-DDD #2	8.748	1.000	Q	H	R
59	Endosulfan II #2	8.853	1.000	Q	H	R
60	4,4'-DDT #2	8.974	1.000	Q	H	R
61	Endrin Aldehyde #2	9.089	1.000	A	H	R
62	Endosulfan Sulfate #2	9.281	1.000	Q	H	R
63	Methoxychlor #2	9.453	1.000	Q	H	R
64	Endrin Ketone #2	9.682	1.000	Q	H	R
65	S DCBP (S) #2	10.537	1.000	Q	H	R
66	Hexachlorobutadiene #2	3.680	1.000	A	H	R
67	Hexachlorobenzene #2	6.447	1.000	Q	H	R
68	Oxychlorane #2	7.907	1.000	A	H	R
69	2,4'-DDE #2	8.110	1.000	A	H	R
70	trans-Nonachlor #2	8.181	1.000	A	H	R
71	2,4'-DDD #2	8.483	1.000	A	H	R
72	2,4'-DDT #2	8.708	1.000	Q	H	R
73	cis-Nonachlor #2	8.748	1.000	A	H	R
74	Mirex #2	9.673	1.000	Q	H	R
75	Chlordane (1) #2	8.117	1.000	A	H	R
76	Chlordane (2) #2	8.225	1.000	A	H	R
77	Chlordane (3) #2	8.889	1.000	A	H	R
78	Chlordane - AVE #2	0.000	1.000	A	H	R
79	Toxaphene (1) #2	8.454	1.000	A	H	R
80	Toxaphene (2) #2	8.801	1.000	A	H	R
81	Toxaphene (3) #2	8.836	1.000	A	H	R
82	Toxaphene (4) #2	8.905	1.000	Q	H	R
83	Toxaphene (5) #2	9.081	1.000	A	H	R
84	Toxaphene (6) #2	9.463	1.000	A	H	R
85	Toxaphene - AVE #2	0.000	1.000	A	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

ECD8_QUANTPEST_200201.M Mon Feb 03 17:24:31 2020

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
 Method File : ECD8_QUANTPEST_200201.M
 Title : Instrument: DualECD8
 Last Update : Mon Feb 03 15:36:51 2020
 Response Via : Initial Calibration

Calibration Files

1 =ECD8-02012036.D 2 =ECD8-02012037.D 3 =ECD8-02012038.D 4 =ECD8-02012039.D 5 =ECD8-02012040.D
 6 =ECD8-02012041.D 7 =ECD8-02012042.D 8 =ECD8-02012023.D 9 =ECD8-02012024.D

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD	
1) S TCMX (S)	4.021	3.714	3.605	3.216	3.303	3.433	3.204	3.554	3.415	3.496	E6	7.49
2) a-BHC	4.647	4.492	4.575	4.693	4.656	4.865	4.497	5.094	5.002	4.725	E6	4.57
3) g-BHC	4.196	3.995	4.052	4.124	4.043	4.229	4.065	4.359	4.407	4.163	E6	3.50
4) b-BHC	1.887	1.737	1.718	1.728	1.657	1.731	1.637	1.858	1.723	1.742	E6	4.71
5) Heptachlor	4.427	4.223	4.052	4.001	3.990	4.151	3.846	4.163	4.138	4.110	E6	4.02
6) d-BHC	2.893	2.800	3.178	3.344	3.397	3.748	3.648	4.199	4.131	3.482	E6	14.23
7) Aldrin	4.236	4.023	3.939	4.004	3.955	4.077	3.909	4.209	4.012	4.041	E6	2.83
8) Heptachlor Exp...	4.075	3.850	3.655	3.642	3.556	3.624	3.363	3.806	3.663	3.693	E6	5.42
9) trans-Chlordane	4.014	3.866	3.617	3.633	3.645	3.694	3.627	3.928	3.822	3.761	E6	3.98
10) cis-Chlordane	4.145	3.812	3.645	3.579	3.457	3.641	3.348	3.775	3.648	3.672	E6	6.21
11) Endosulfan I	3.865	3.594	3.342	3.407	3.475	3.418	3.279	3.495	3.345	3.469	E6	5.07
12) 4,4'-DDE	3.258	2.976	3.182	3.180	3.207	3.307	3.360	3.787	3.629	3.321	E6	7.44
13) Dieldrin	3.917	3.772	3.764	3.751	3.730	3.835	3.590	4.028	3.935	3.813	E6	3.43
14) Endrin	3.403	3.308	3.220	3.231	3.135	3.314	3.101	3.384	3.276	3.264	E6	3.15
15) 4,4'-DDD	2.437	2.373	2.342	2.347	2.426	2.535	2.506	2.977	2.962	2.545	E6	9.79
16) Endosulfan II	3.301	3.005	2.926	2.800	2.819	2.934	2.837	3.319	2.983	2.992	E6	6.49
17) 4,4'-DDT	2.704	2.498	2.454	2.527	2.469	2.724	2.696	2.988	3.136	2.688	E6	8.89
18) Endrin Aldehyde	3.069	2.831	2.733	2.518	2.511	2.471	2.371	2.586	2.603	2.633	E6	8.12
19) Endosulfan Sul...	3.097	2.922	2.793	2.769	2.704	2.801	2.677	3.045	2.953	2.862	E6	5.19
20) Methoxychlor	1.301	1.197	1.134	1.113	1.123	1.159	1.135	1.331	1.366	1.207	E6	8.20
21) Endrin Ketone	3.731	3.541	3.412	3.325	3.268	3.423	3.196	3.668	3.544	3.456	E6	5.21
22) S DCBP (S)	4.276	3.342	3.075	2.710	2.661	2.658	2.467	2.801	2.772	2.974	E6	18.56
23) Hexachlorobuta...	4.557	4.206	3.987	4.002	3.838	3.491	3.731	3.510	3.761	3.898	E6	8.67
24) Hexachlorobenzene	3.789	3.452	3.320	3.289	3.265	3.118	3.314	3.206	3.501	3.362	E6	5.88
25) Oxychlordane	4.157	3.626	3.385	3.237	3.198	2.920	3.210	2.998	3.218	3.328	E6	11.17
26) 2,4'-DDE	2.580	2.295	2.244	2.349	2.280	2.088	2.327	2.230	2.414	2.312	E6	5.85
27) trans-Nonachlor	4.338	3.769	3.785	3.623	3.588	3.273	3.540	3.440	3.640	3.666	E6	8.10
28) 2,4'-DDD	2.223	1.934	1.919	1.977	1.853	1.688	1.863	1.889	2.085	1.937	E6	7.79
29) 2,4'-DDT	2.837	2.374	2.364	2.375	2.293	2.144	2.342	2.299	2.510	2.393	E6	8.04
30) cis-Nonachlor	4.594	4.089	4.142	4.121	4.044	3.662	4.002	3.793	4.178	4.069	E6	6.40
31) Mirex	3.386	2.919	2.767	2.665	2.543	2.233	2.343	2.327	2.436	2.624	E6	13.82
32) Chlordane (1)	4.222	3.866	4.098	3.992	3.885	4.071	3.900			4.005	E5	3.30
33) Chlordane (2)	5.231	4.769	5.007	4.874	4.684	4.680	4.799			4.863	E5	4.07
34) Chlordane (3)	1.478	1.272	1.303	1.294	1.236	1.265	1.266			1.302	E5	6.19
35) Chlordane - AVE										0.000		-1.00
36) Toxaphene (1)	1.695	1.724	1.687	1.605	1.525	1.713	1.509			1.637	E4	5.53
37) Toxaphene (2)	3.573	3.364	3.172	3.039	2.857	3.129	2.857			3.142	E4	8.31
38) Toxaphene (3)	9.230	7.765	7.108	6.978	6.766	7.487	6.743			7.439	E4	11.74
39) Toxaphene (4)	1.101	0.734	0.686	0.678	0.634	0.713	0.645			0.741	E5	21.88
40) Toxaphene (5)	5.859	5.396	5.268	5.362	5.091	5.760	5.204			5.420	E4	5.28
41) Toxaphene (6)	8.445	7.582	7.293	7.412	7.198	8.043	7.265			7.605	E4	6.15
42) Toxaphene - AVE										0.000		-1.00

MJP
2/3/20

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\
 Method File : ECD8_QUANTPEST_200201.M
 Title : Instrument: DualECD8

Signal #2 Calibration Files

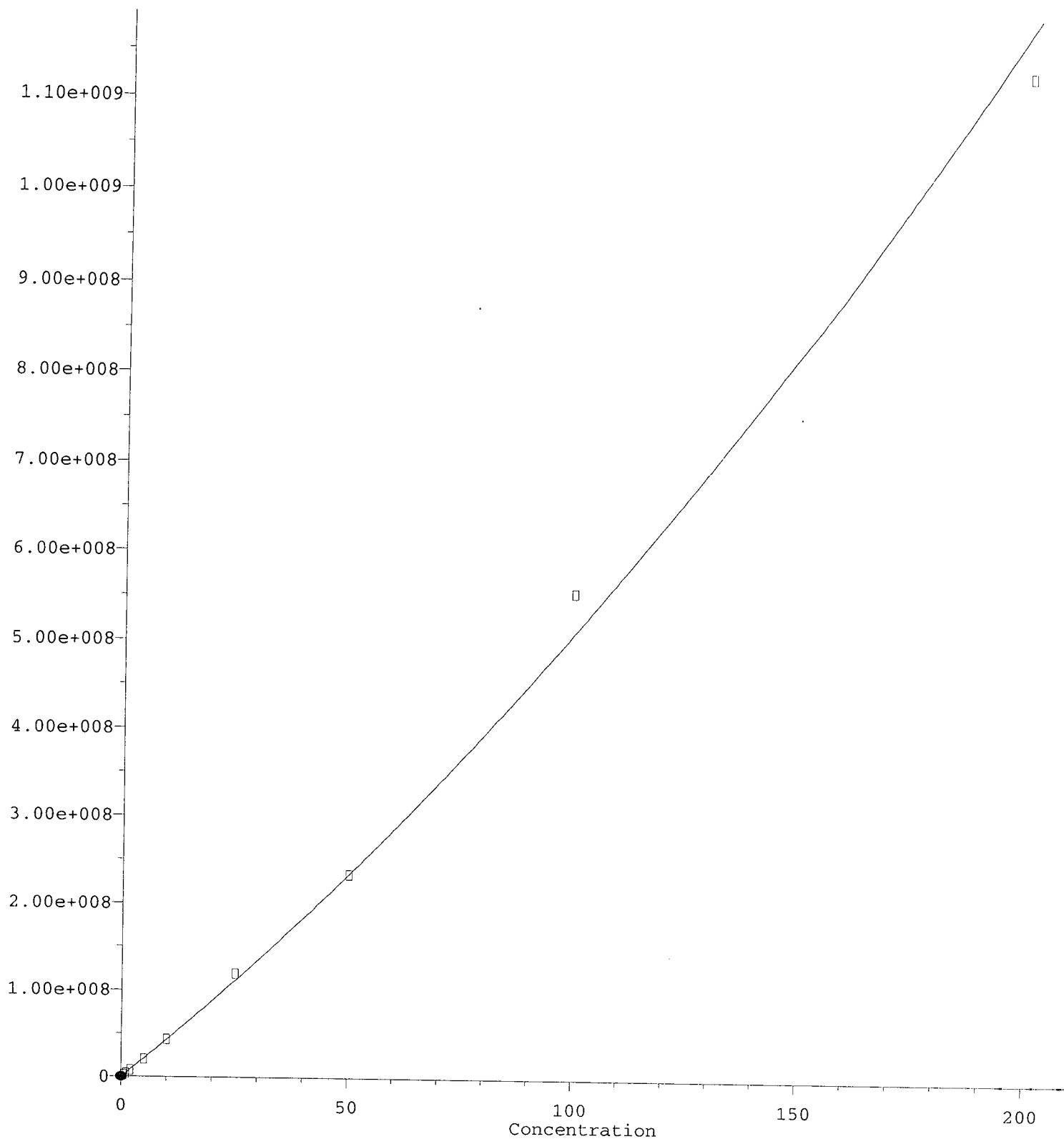
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 4 =ECD8-02012039.D 5 =ECD8-02012040.D 6 =ECD8-02012041.D

Compound	1	2	3	4	5	6	Avg	%RSD				
44) S TCMX (S) #2	3.615	3.326	3.232	3.006	3.188	3.406	3.366	3.864	4.042	3.450	E6	9.65
45) a-BHC #2	3.814	3.754	3.796	4.050	4.349	4.768	4.666	5.537	5.667	4.489	E6	16.30
46) g-BHC #2	3.716	3.614	3.572	3.781	3.852	4.314	4.236	4.913	4.902	4.100	E6	12.77
47) b-BHC #2	1.743	1.673	1.697	1.560	1.606	1.713	1.706	1.968	1.959	1.736	E6	8.12
48) Heptachlor #2	4.334	4.012	3.806	3.874	3.874	4.179	4.218	4.770	4.830	4.211	E6	8.97
49) d-BHC #2	3.050	2.822	3.180	3.257	3.456	4.038	3.858	4.722	4.698	3.676	E6	18.98
50) Aldrin #2	3.775	3.540	3.606	3.652	3.695	4.132	3.917	4.720	4.644	3.965	E6	11.20
51) Heptachlor Exp...	3.659	3.563	3.192	3.333	3.369	3.628	3.578	4.043	3.944	3.590	E6	7.70
52) trans-Chlordan...	3.848	3.473	3.412	3.413	3.495	3.764	3.625	4.327	4.109	3.718	E6	8.75
53) cis-Chlordane #2	3.704	3.361	3.207	3.212	3.205	3.640	3.461	3.951	3.964	3.523	E6	8.70
54) Endosulfan I #2	3.179	3.093	3.044	2.996	3.065	3.426	3.349	3.925	3.669	3.305	E6	9.66
55) 4,4'-DDE #2	2.692	2.685	2.835	2.972	3.020	3.471	3.504	4.059	4.176	3.268	E6	17.29
56) Dieldrin #2	3.423	3.204	3.278	3.379	3.498	3.835	3.843	4.251	4.356	3.674	E6	11.43
57) Endrin #2	2.998	2.810	2.774	2.775	2.916	3.176	3.080	3.545	3.693	3.085	E6	10.83
58) 4,4'-DDD #2	2.239	2.115	2.175	2.251	2.276	2.607	2.730	3.301	3.398	2.566	E6	19.03
59) Endosulfan II #2	2.885	2.617	2.599	2.537	2.594	2.921	2.923	3.419	3.424	2.880	E6	11.88
60) 4,4'-DDT #2	2.721	2.317	2.368	2.327	2.513	2.821	2.768	3.403	3.532	2.752	E6	16.32
61) Endrin Aldehyd...	3.113	2.605	2.613	2.368	2.362	2.438	2.470	2.900	2.925	2.644	E6	10.32
62) Endosulfan Sul...	3.070	2.491	2.606	2.504	2.504	2.806	2.701	3.154	3.303	2.793	E6	11.10
63) Methoxychlor #2	1.963	1.214	1.310	1.130	1.087	1.207	1.206	1.490	1.522	1.347	E6	20.39
64) Endrin Ketone #2	4.271	3.122	3.046	2.880	2.883	3.178	3.135	3.637	3.685	3.315	E6	13.87
65) S DCBP (S) #2	4.242	2.620	2.686	2.249	2.164	2.161	2.076	2.400	2.388	2.554	E6	26.09
66) Hexachlorobuta...	5.188	4.879	4.653	4.750	4.709	4.384	4.983	4.691	5.340	4.842	E6	6.04
67) Hexachlorobenz...	3.232	2.946	2.887	3.082	2.853	2.891	3.371	3.276	3.912	3.161	E6	10.74
68) Oxychlordane #2	3.635	3.175	3.025	3.102	2.989	2.863	3.214	3.128	3.652	3.198	E6	8.55
69) 2,4'-DDE #2	2.400	2.104	2.130	2.181	2.196	2.045	2.343	2.384	2.673	2.273	E6	8.65
70) trans-Nonachlo...	4.009	3.680	3.415	3.397	3.440	3.232	3.584	3.676	4.052	3.610	E6	7.71
71) 2,4'-DDD #2	1.922	1.795	1.840	1.860	1.806	1.718	1.985	1.955	2.347	1.914	E6	9.53
72) 2,4'-DDT #2	2.420	2.100	2.094	2.272	2.214	2.149	2.455	2.536	2.918	2.351	E6	11.32
73) cis-Nonachlor #2	4.169	3.802	3.676	3.917	3.833	3.615	4.185	3.989	4.681	3.985	E6	8.18
74) Mirex #2	2.952	2.855	2.435	2.293	2.096	1.911	2.097	2.042	2.398	2.342	E6	15.43
75) Chlordane (1) #2	4.085	4.027	4.333	4.184	4.359	4.611	4.814			4.345	E5	6.55
76) Chlordane (2) #2	3.718	3.182	3.522	3.534	3.639	3.848	4.005			3.636	E5	7.25
77) Chlordane (3) #2	1.247	1.143	1.165	1.107	1.170	1.188	1.293			1.188	E5	5.31
78) Chlordane - AV...										0.000		-1.00
79) Toxaphene (1) #2	2.739	2.916	3.040	2.992	2.798	3.202	2.942			2.947	E4	5.22
80) Toxaphene (2) #2	3.641	3.799	4.024	4.148	3.875	4.495	4.150			4.019	E4	6.98
81) Toxaphene (3) #2	6.944	6.246	6.232	6.203	6.017	7.001	6.646			6.470	E4	6.05
82) Toxaphene (4) #2	1.372	1.007	1.008	0.998	0.977	1.141	1.063			1.081	E5	12.95
83) Toxaphene (5) #2	5.743	5.395	5.637	5.743	5.410	6.308	5.894			5.733	E4	5.45
84) Toxaphene (6) #2	7.494	6.319	6.347	6.338	6.090	7.067	6.582			6.605	E4	7.54
85) Toxaphene - AV...										0.000		-1.00

(#) = Out of Range

a-BHC #2

Response

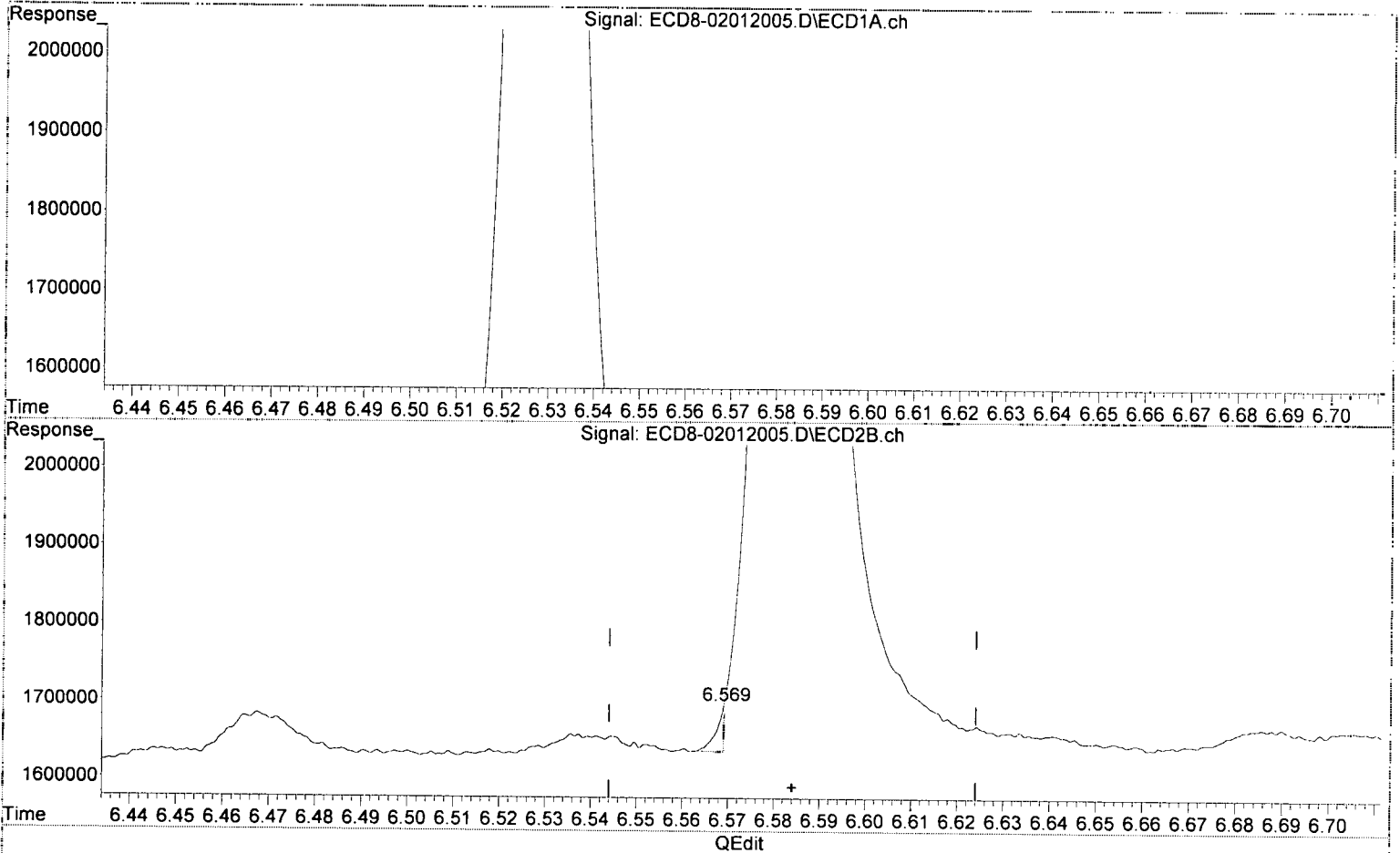


R = 8.27e+003 A*A + 4.27e+006 A - 3.23e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

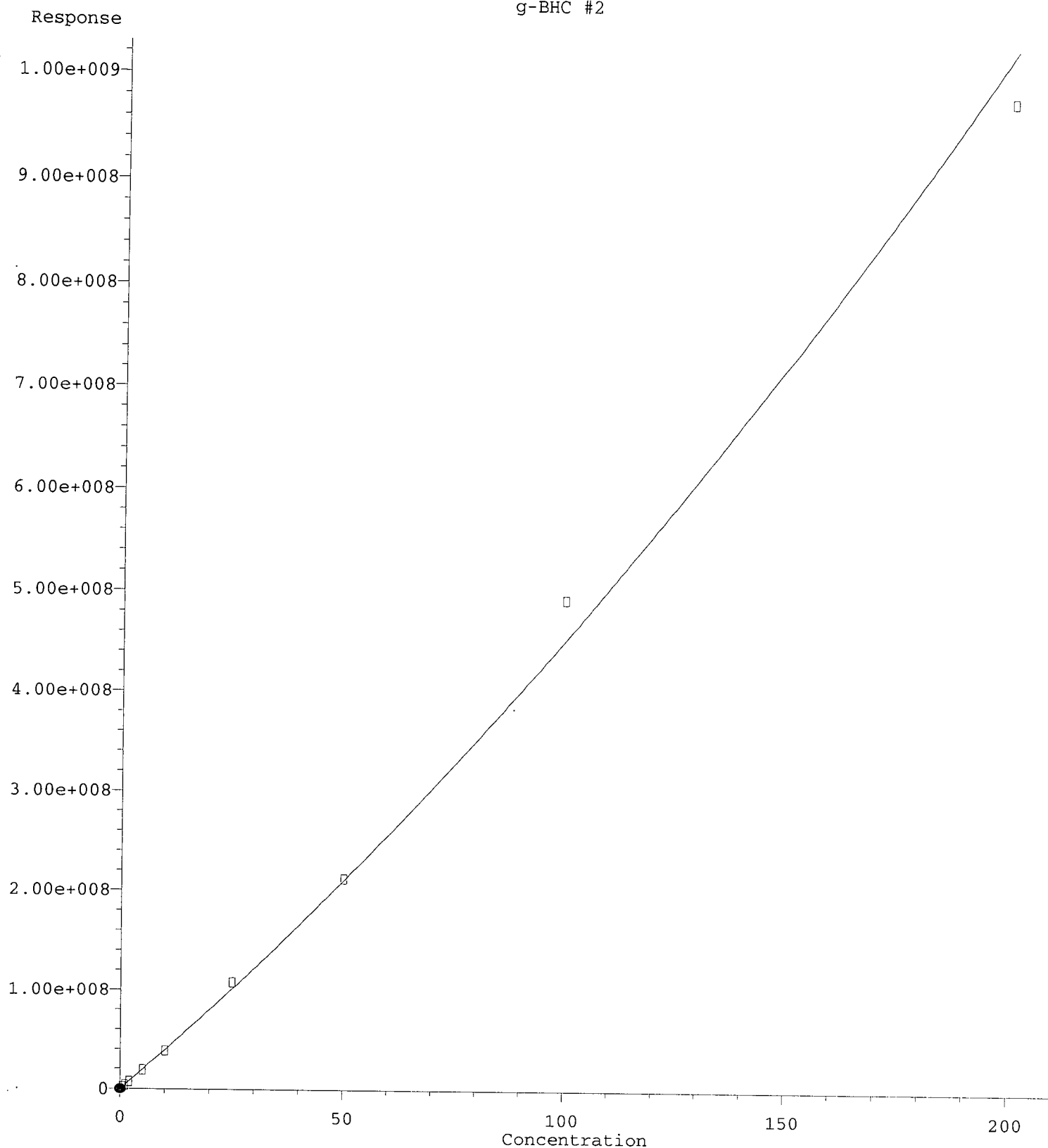
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(2) a-BHC
5.836min 0.492 ng/mL
response 2323532

MJB
2/3/20

(2) a-BHC #2
6.569min 0.090 ng/mL
response 59842

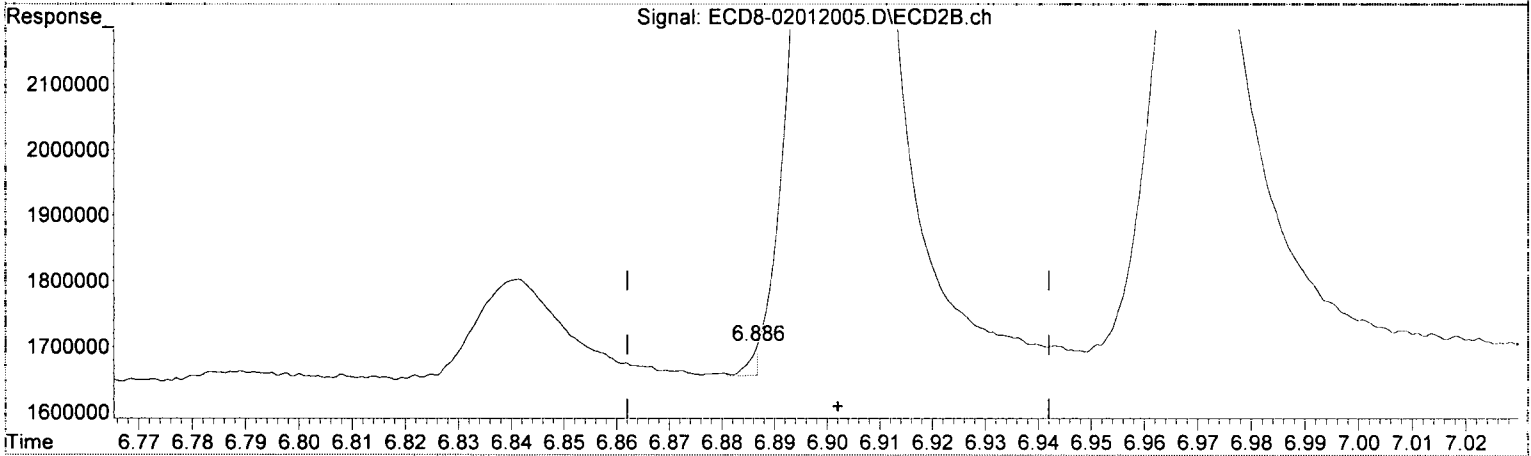
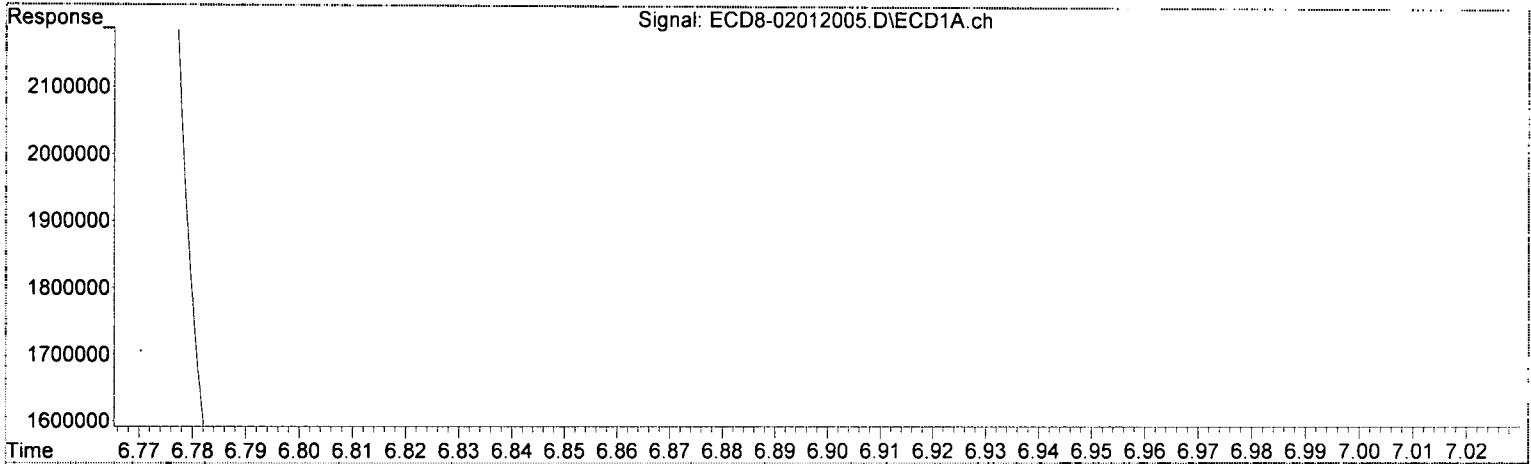


R = 6.15e+003 A*A + 3.90e+006 A - 1.64e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020
04/07/20 Anchor OEA LLC Gasco PIERD DG 2019-4a-b DOC-CAP Testing Cores Page 383 of 731

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

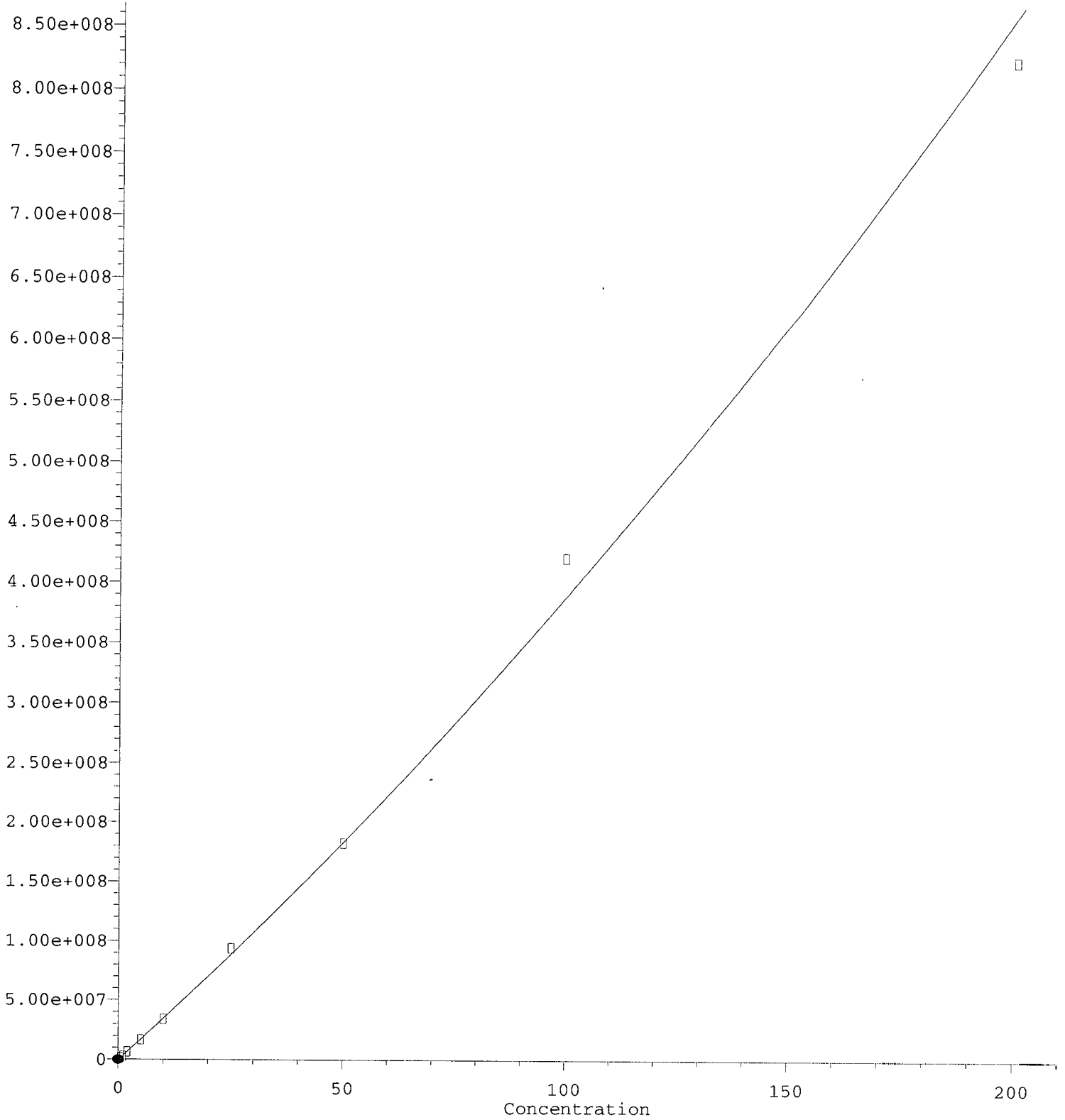
(3) g-BHC
6.120min 0.504 ng/mL
response 2098226

MJB
2/3/20

(3) g-BHC #2
6.886min 0.052 ng/mL (m)
response 37568

d-BHC

Response

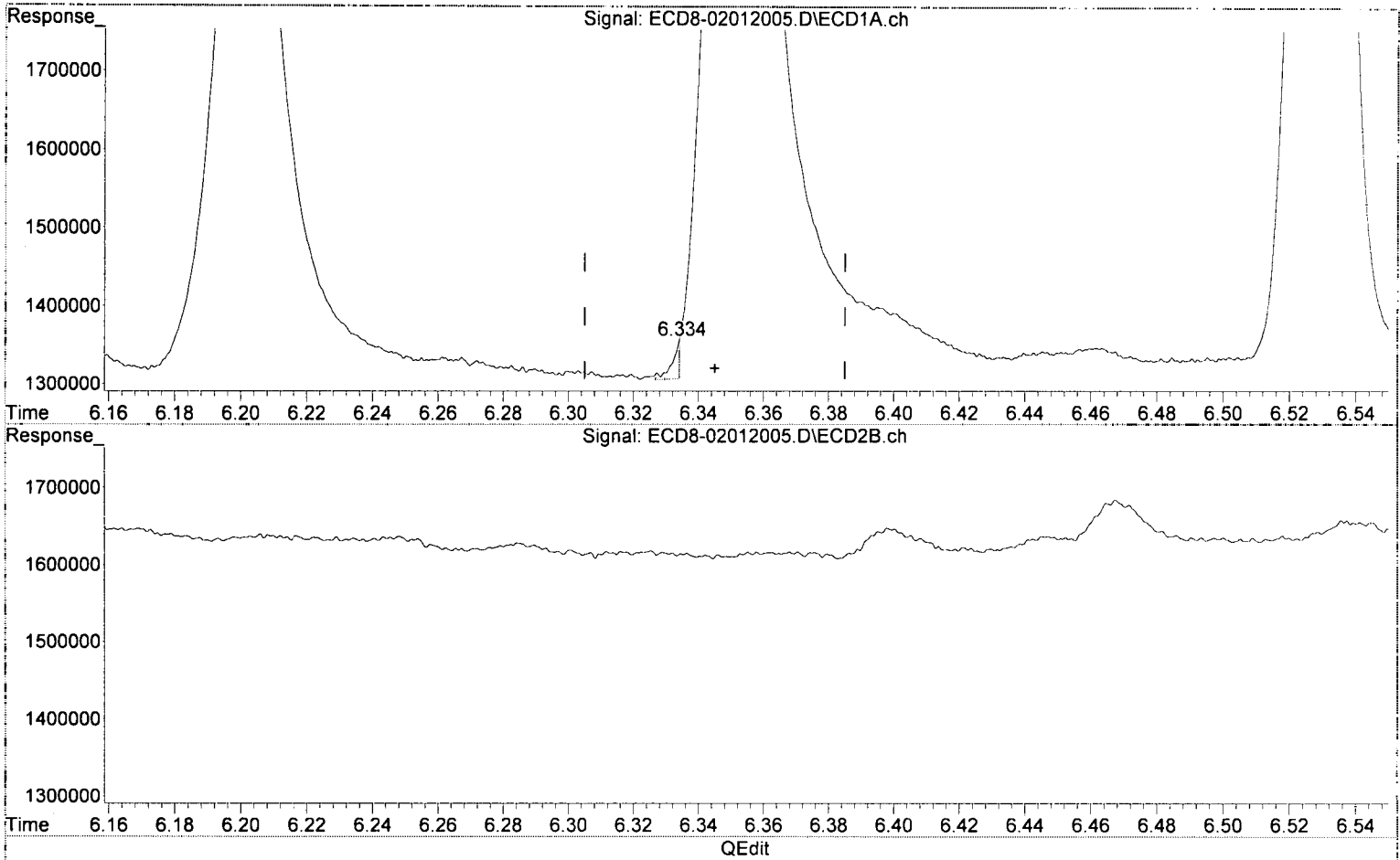


R = 4.28e+003 A*A + 3.45e+006 A - 3.68e+005
Coef of Det (r^2) = 0.996
04/07/20 Anchor QEA, LLC - Gasco Performed 2019-11-13 BOC-CAP Testing Cores Page 385 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

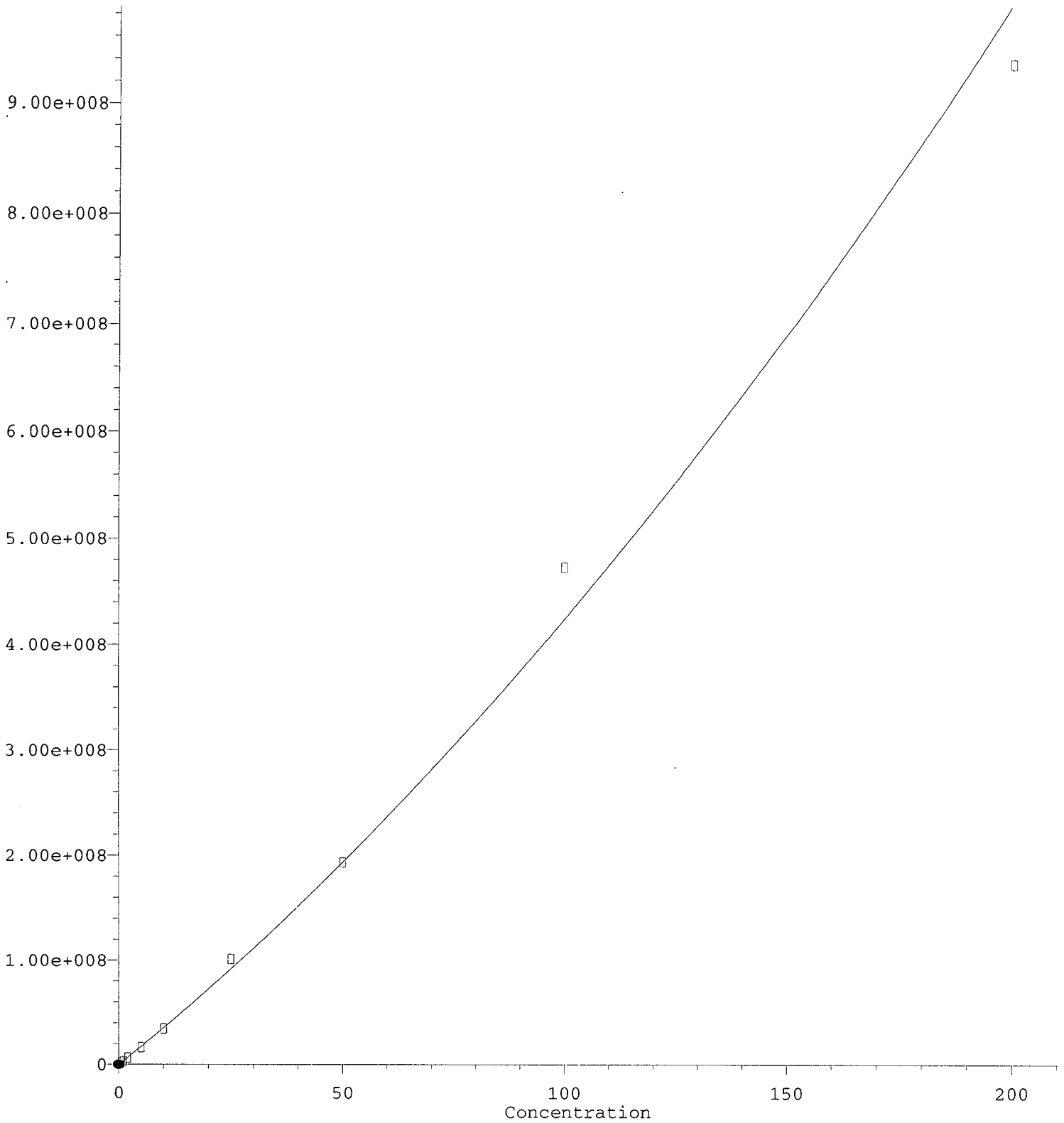


(6) d-BHC
6.334min 0.121 ng/mL
response 50088

MB
2/3/20

(6) d-BHC #2
7.224min 0.533 ng/mL
response 1525163

Response



$R = 7.38e+003 A^2 + 3.50e+006 A - 3.41e+005$

Coef of Det (r^2) = 0.993 CURVE FIT: Quadratic (1/a^2)
04/07/20 Anchor QEA, LLC - Gasco PIERD, DG 2019-4a-b.DOC-CAP Testing Cores Page 387 of 731

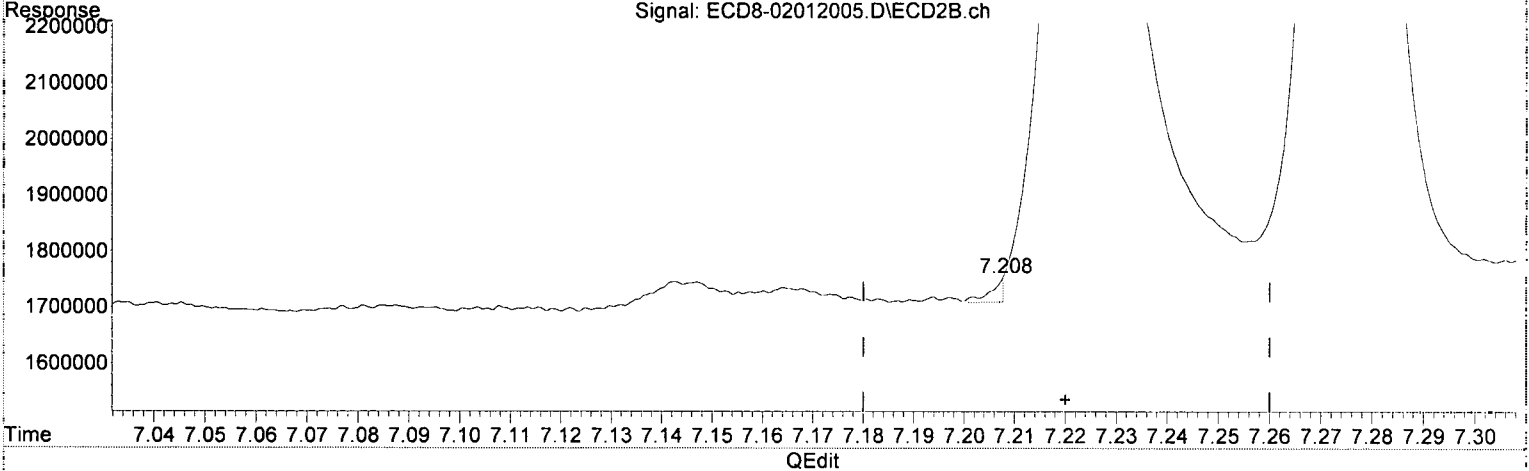
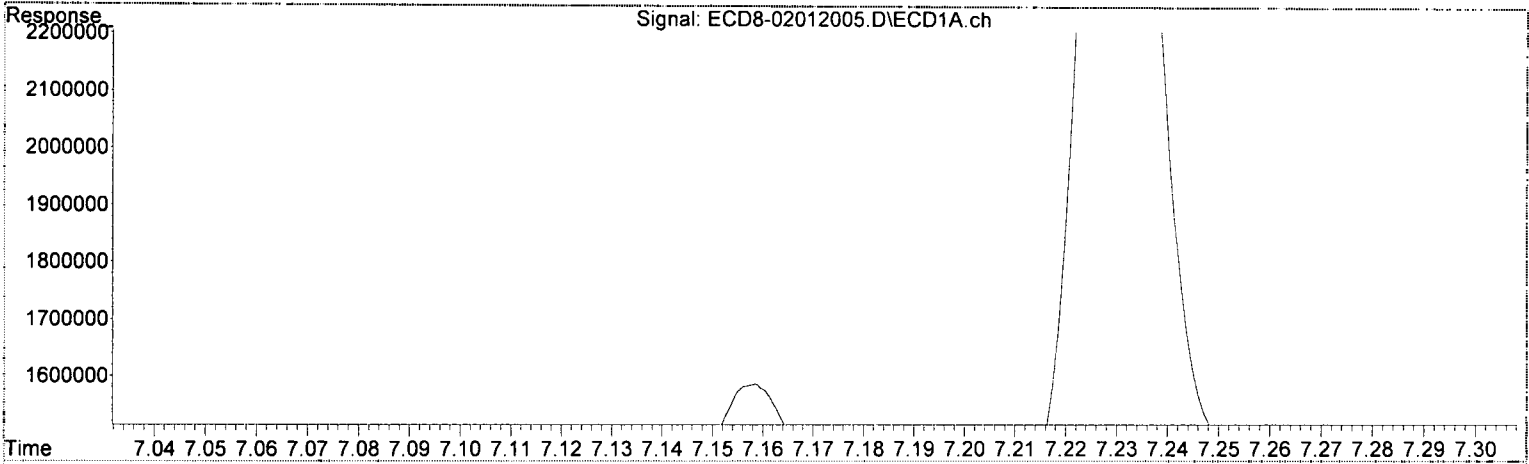
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M

Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

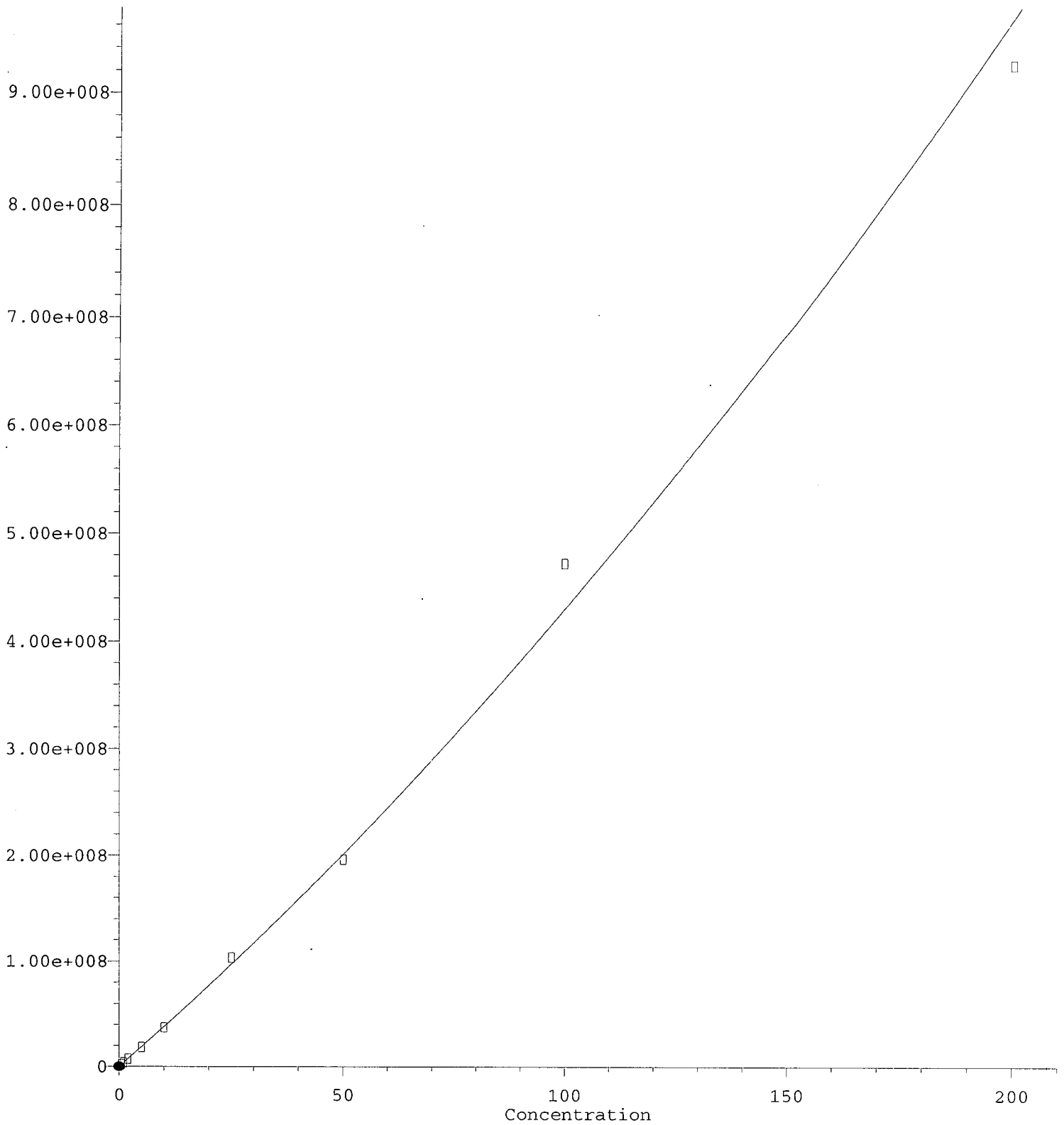
(6) d-BHC
6.334min 0.121 ng/mL m
response 50088

MJB
2/3/20

(6) d-BHC #2
7.208min 0.110 ng/mL (m)
response 42952

Aldrin #2

Response

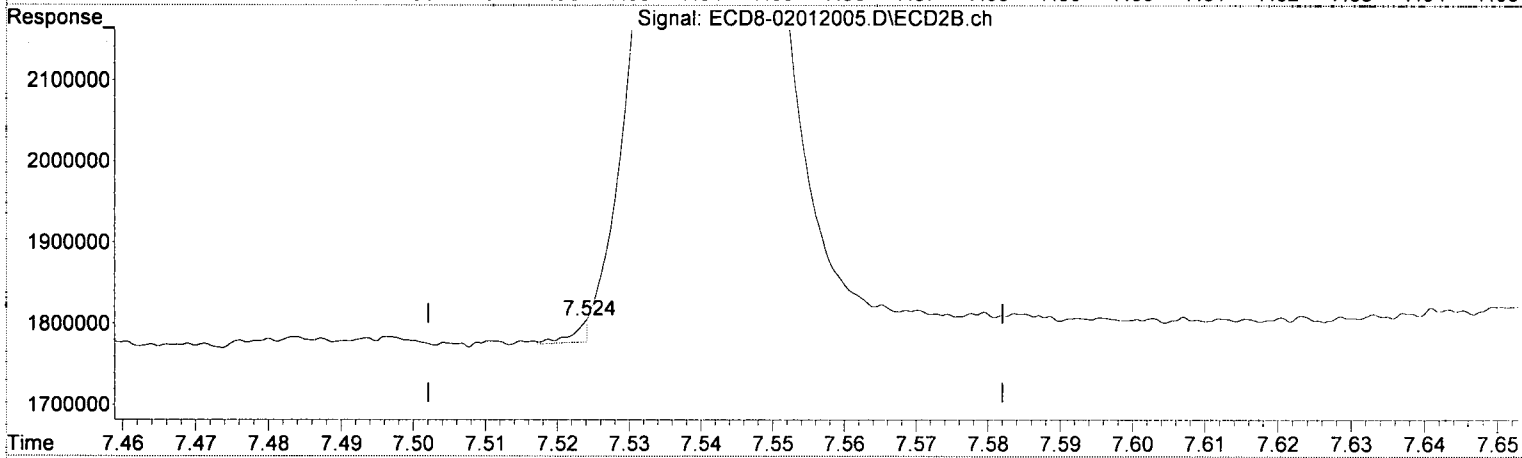
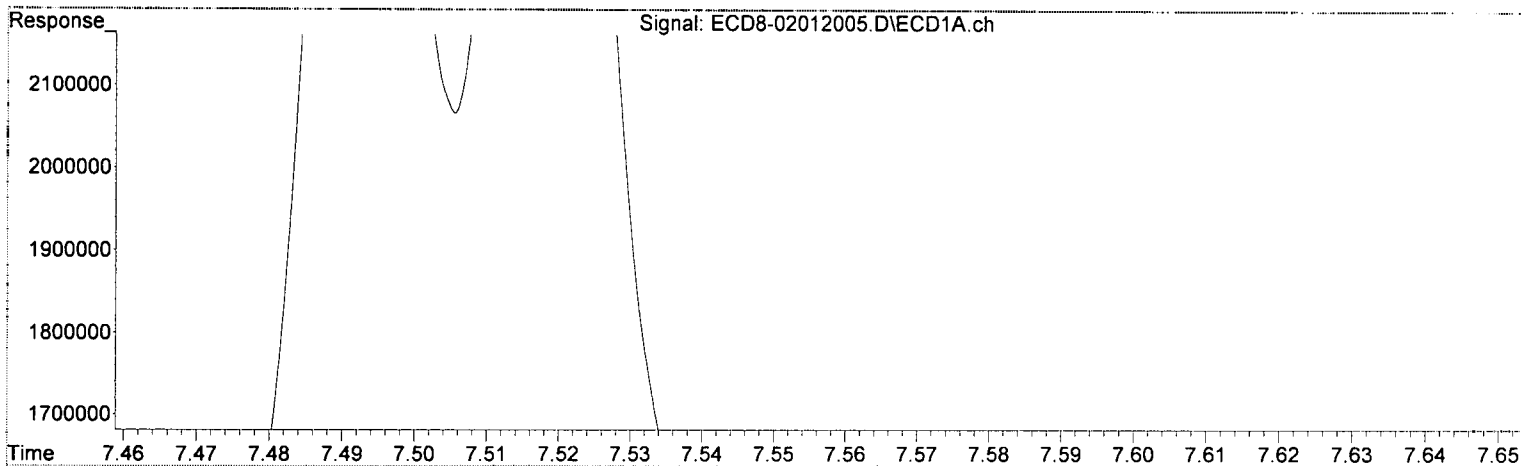


R = 5.56e+003 A*A + 3.74e+006 A - 4.51e+004
Coef of Det (r^2) = 0.996
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

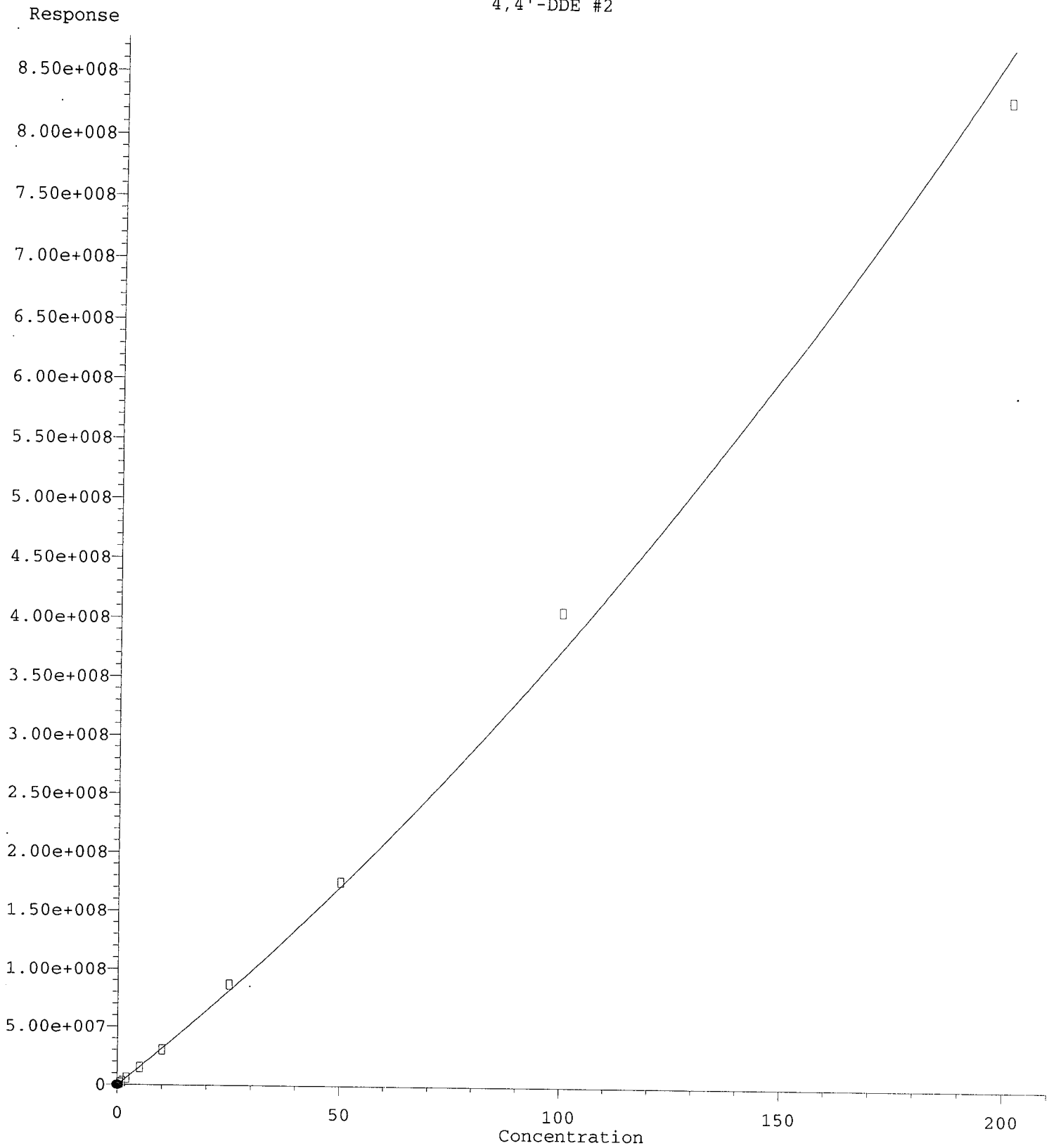


QEdit

(7) Aldrin
6.769min 0.524 ng/mL
response 2117773

MJB 2/3/20

(7) Aldrin #2
7.524min 0.019 ng/mL(m)
response 26735

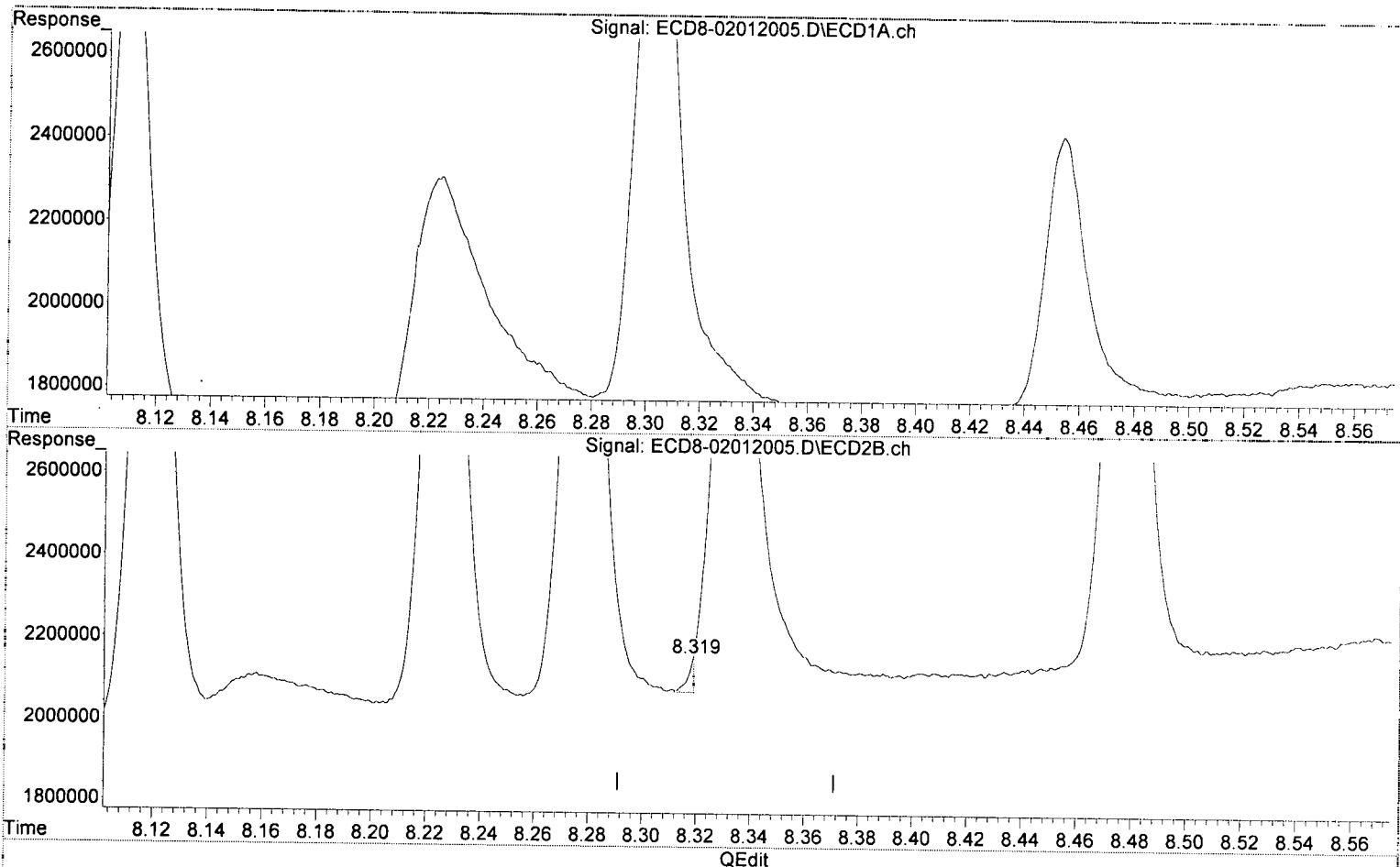


R = 6.32e+003 A*A + 3.11e+006 A - 2.74e+005
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/1/a^2
04/07/20 Anchor OEA LLC Gasco PIERD DE 2019-4a-b DOC-CAP Testing Cores Page 391 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012005.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:26
 Operator : MJB
 Sample : 0B01012-CAL1
 Misc : A20B001, AB 0.5 ppb
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:45:47 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

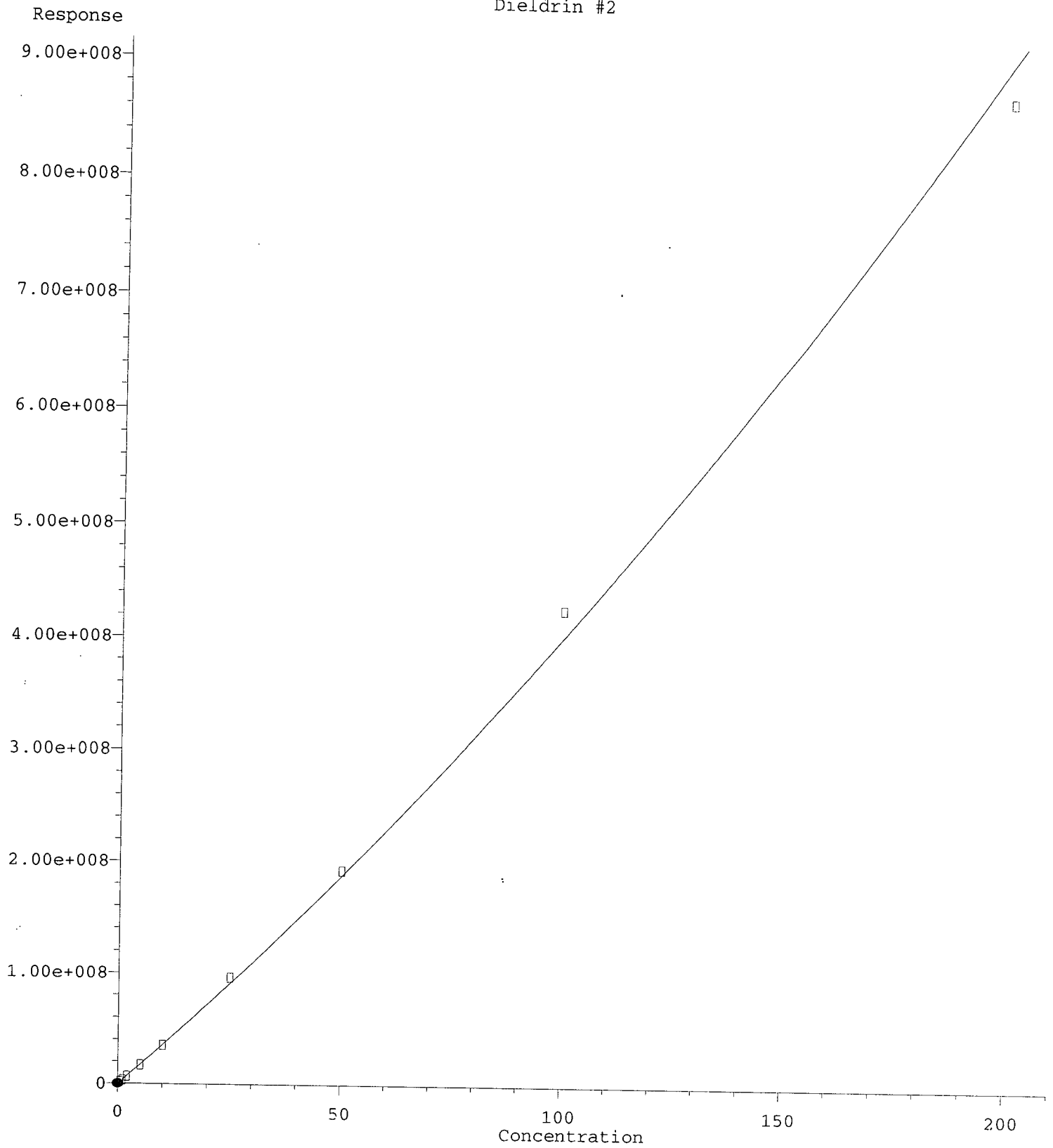


(12) 4,4'-DDE
 7.493min 0.491 ng/mL
 response 1628951

MJB
 2/3/20

(12) 4,4'-DDE #2
 8.319min 0.115 ng/mL (m)
 response 84324

Dieldrin #2

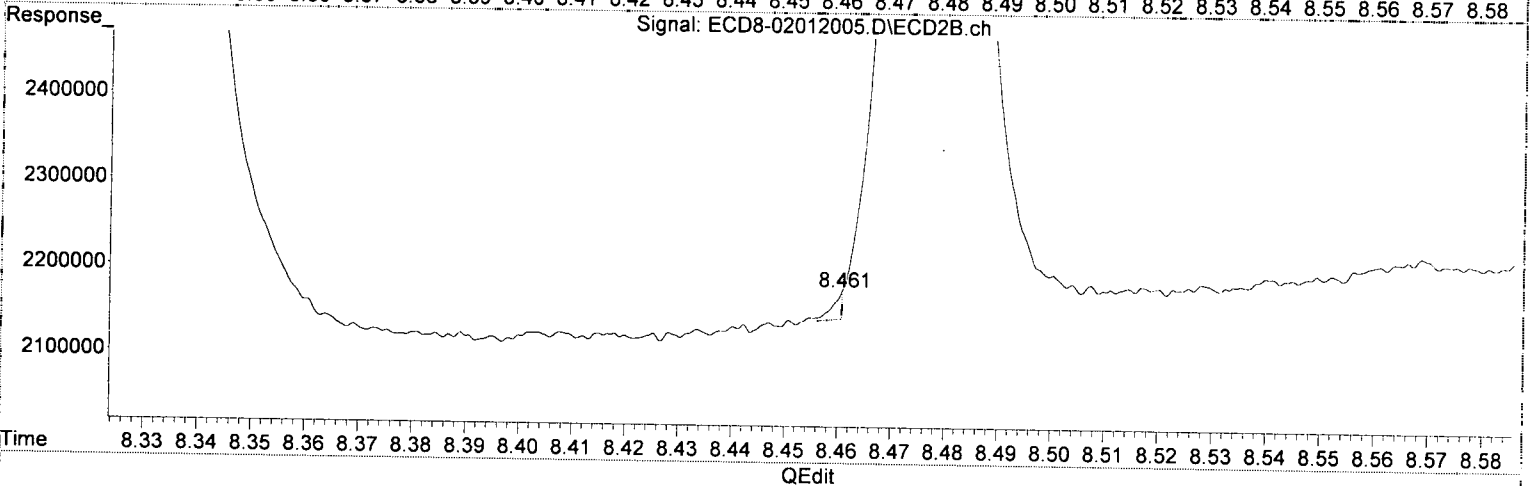
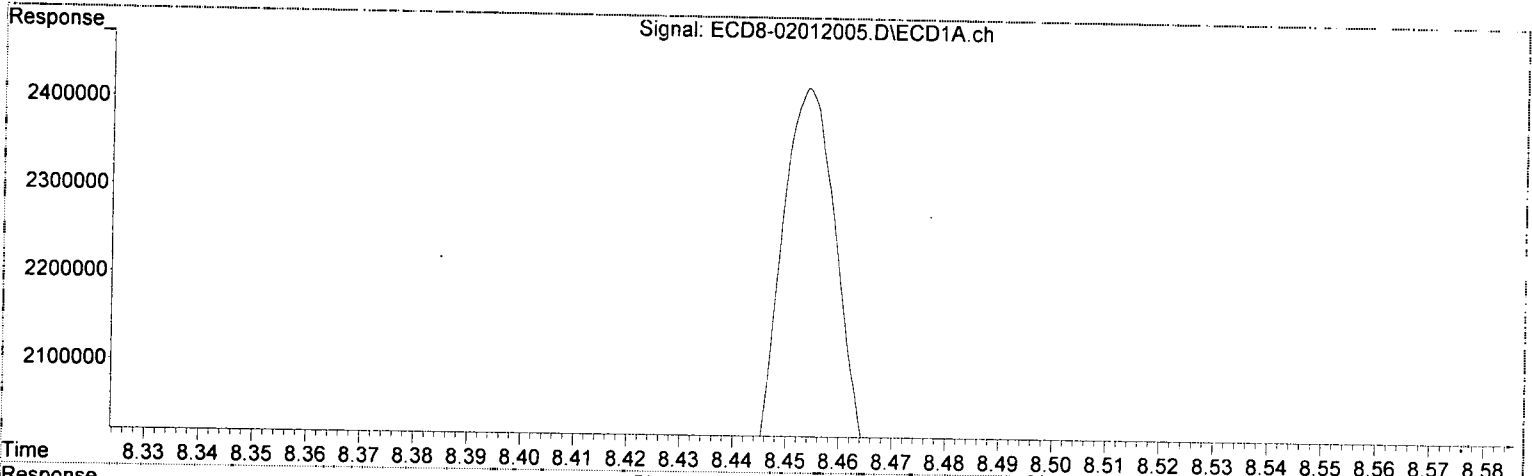


R = 5.10e+003 A*A + 3.50e+006 A - 1.13e+005
Coef of Det (r^2) = 0.997
Curve Fit: Quadratic (w/1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020
04/07/20 Anchor QEA, LLC - Gasco PreRD DG 2019-4a-b-1 DOC-CAP Testing Cores Page 393 of 731

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

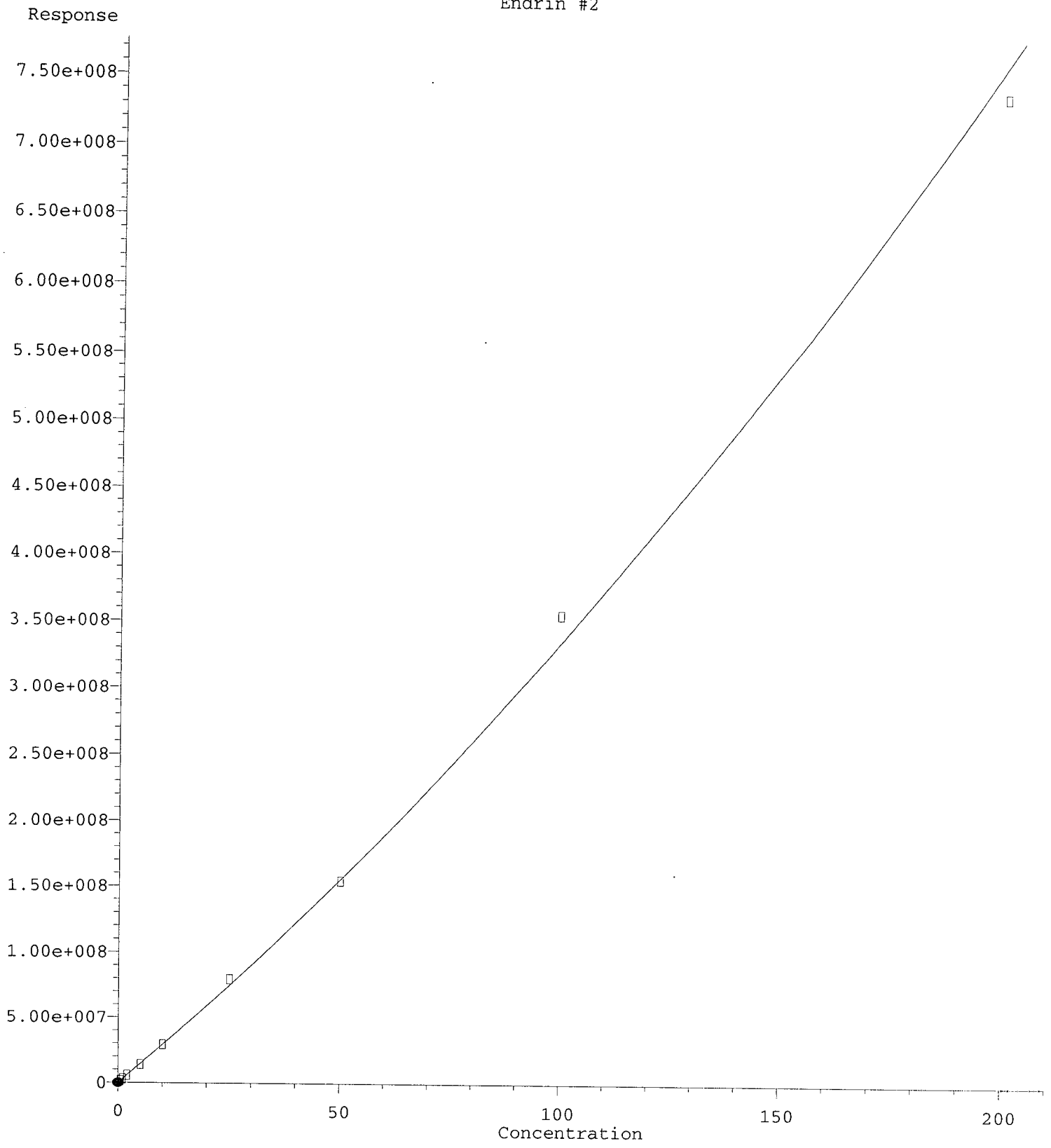


(13) Dieldrin
7.691min 0.514 ng/mL
response 1958633

MJB
2/3/20

(13) Dieldrin #2
8.461min 0.041 ng/mL (m)
response 30875

Endrin #2

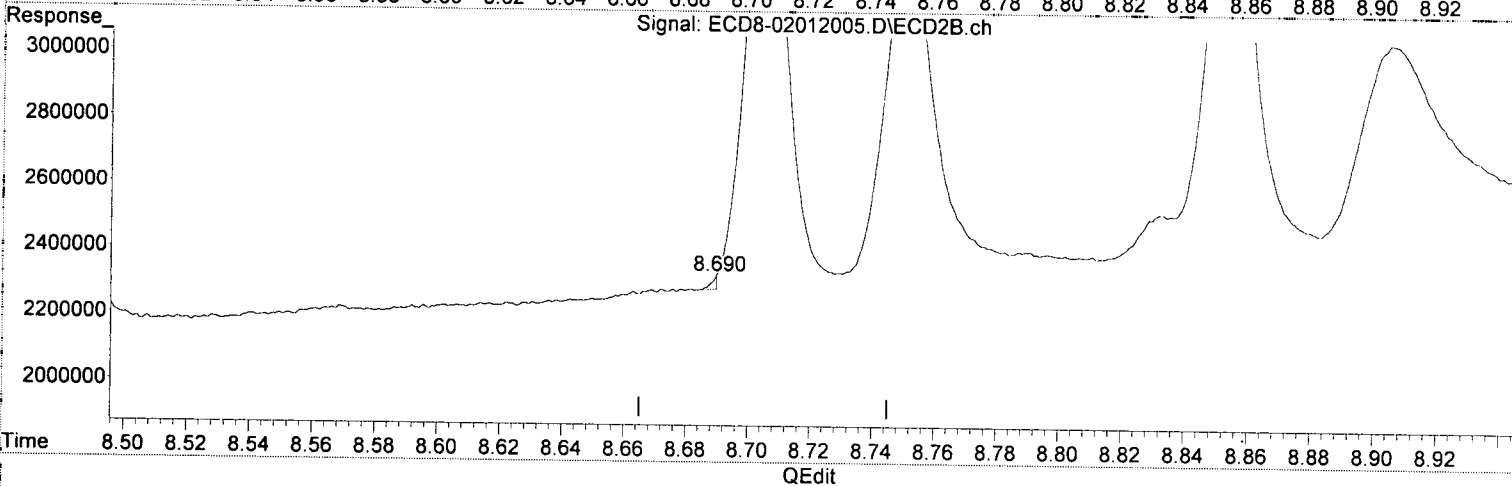
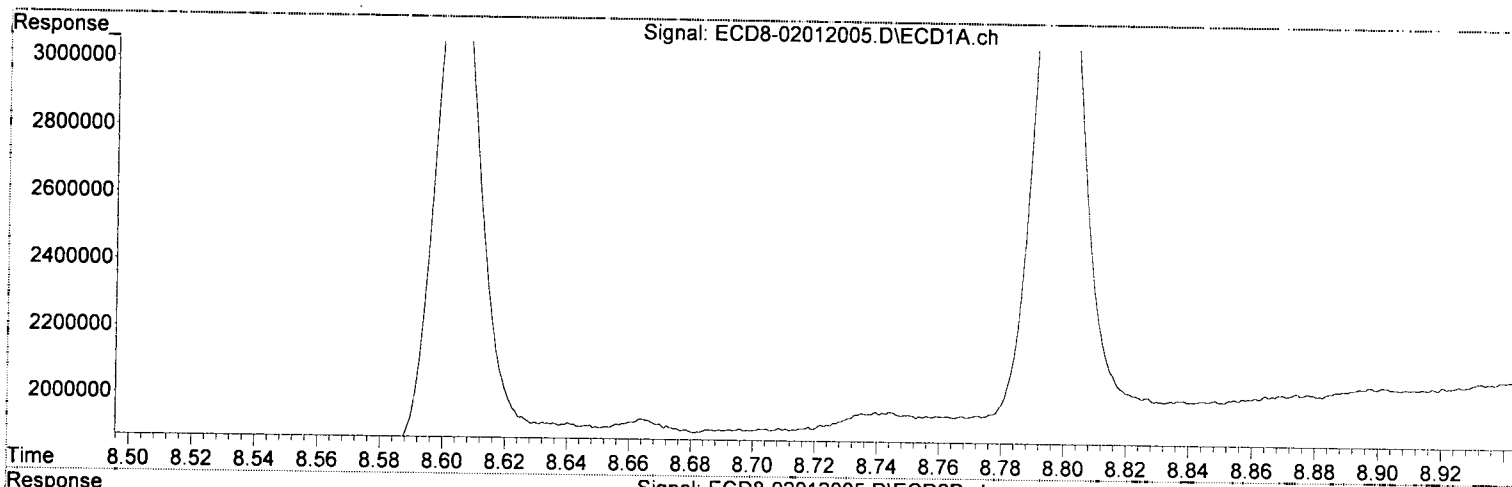


R = 4.68e+003 A*A + 2.87e+006 A + 2.17e+004
Coef of Det (r^2) = 0.998
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020
04/07/20 Anchor DEA, LLC - Gasco PreRD - DG 2019-4a-b, DOC-CAP Testing Cores Page 395 of 731

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

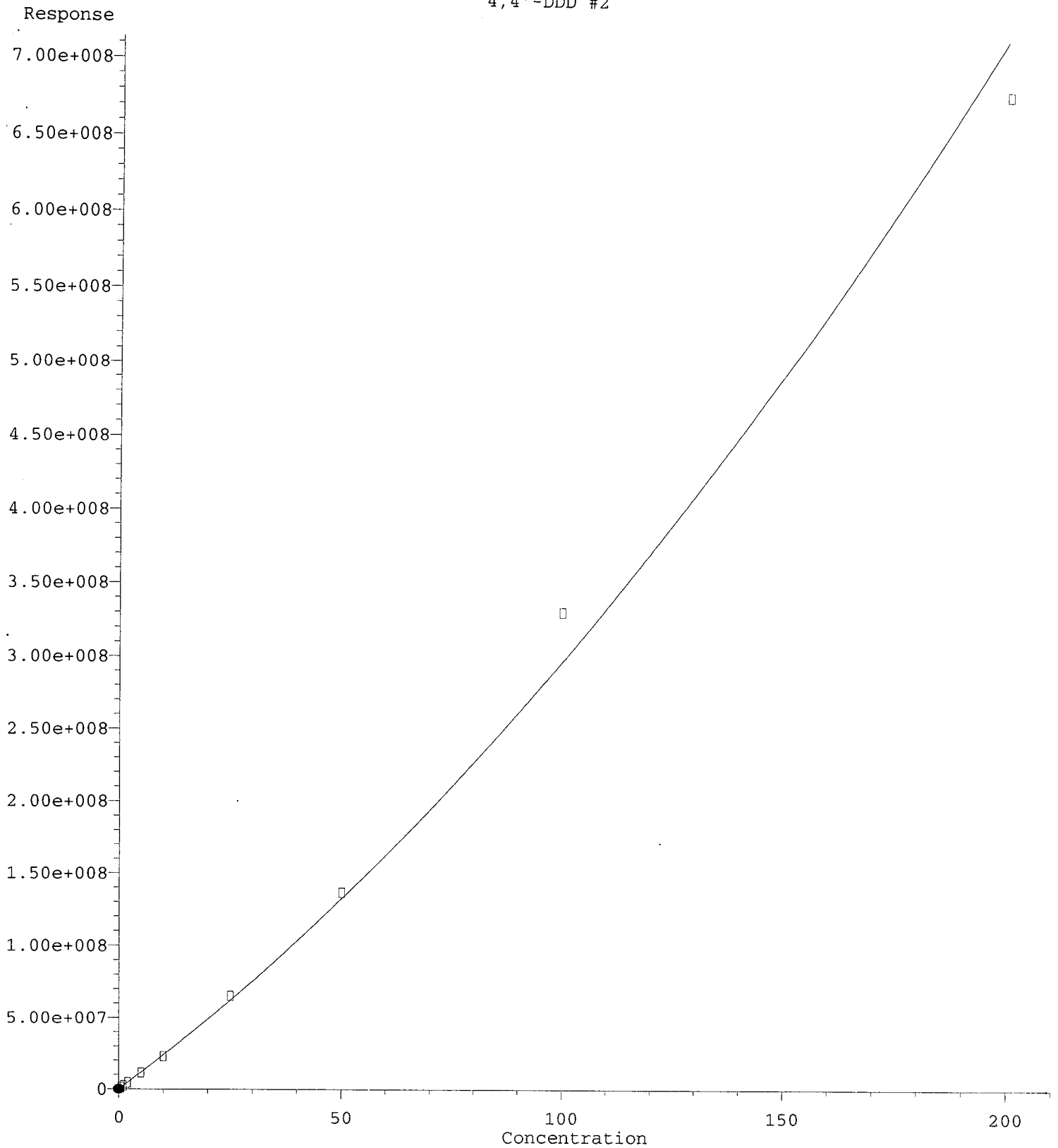
Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(14) Endrin
7.854min 0.521 ng/mL
response 1701747

MJB
2/3/20

(14) Endrin #2
8.690min 0.007 ng/mL (m)
response 40887

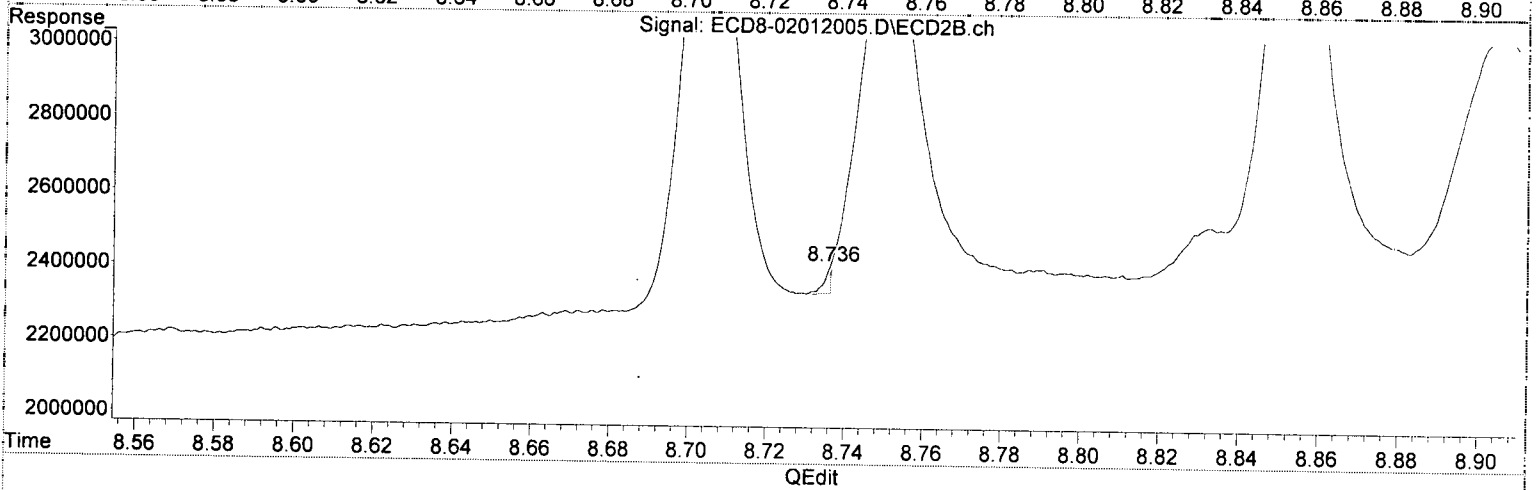
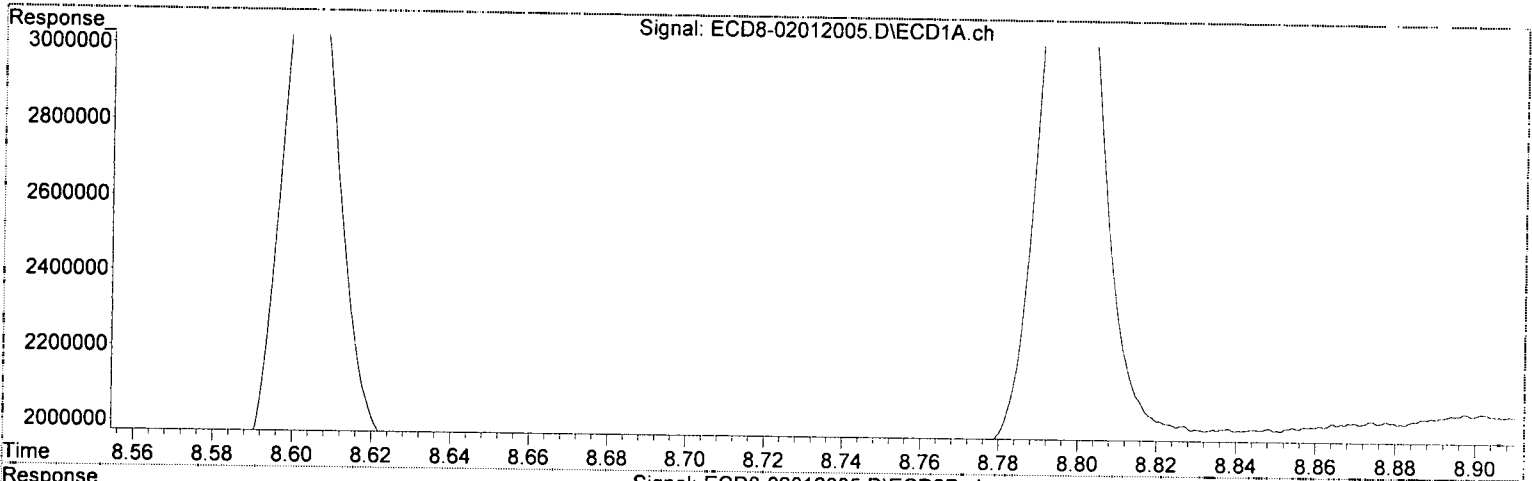


R = 6.31e+003 A*A + 2.33e+006 A - 1.00e+005
Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)
04/07/20 Anchor QEA LLC Gaso Prep DG 2019 7a-b DOC-CAP Testing Cores Page 397 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

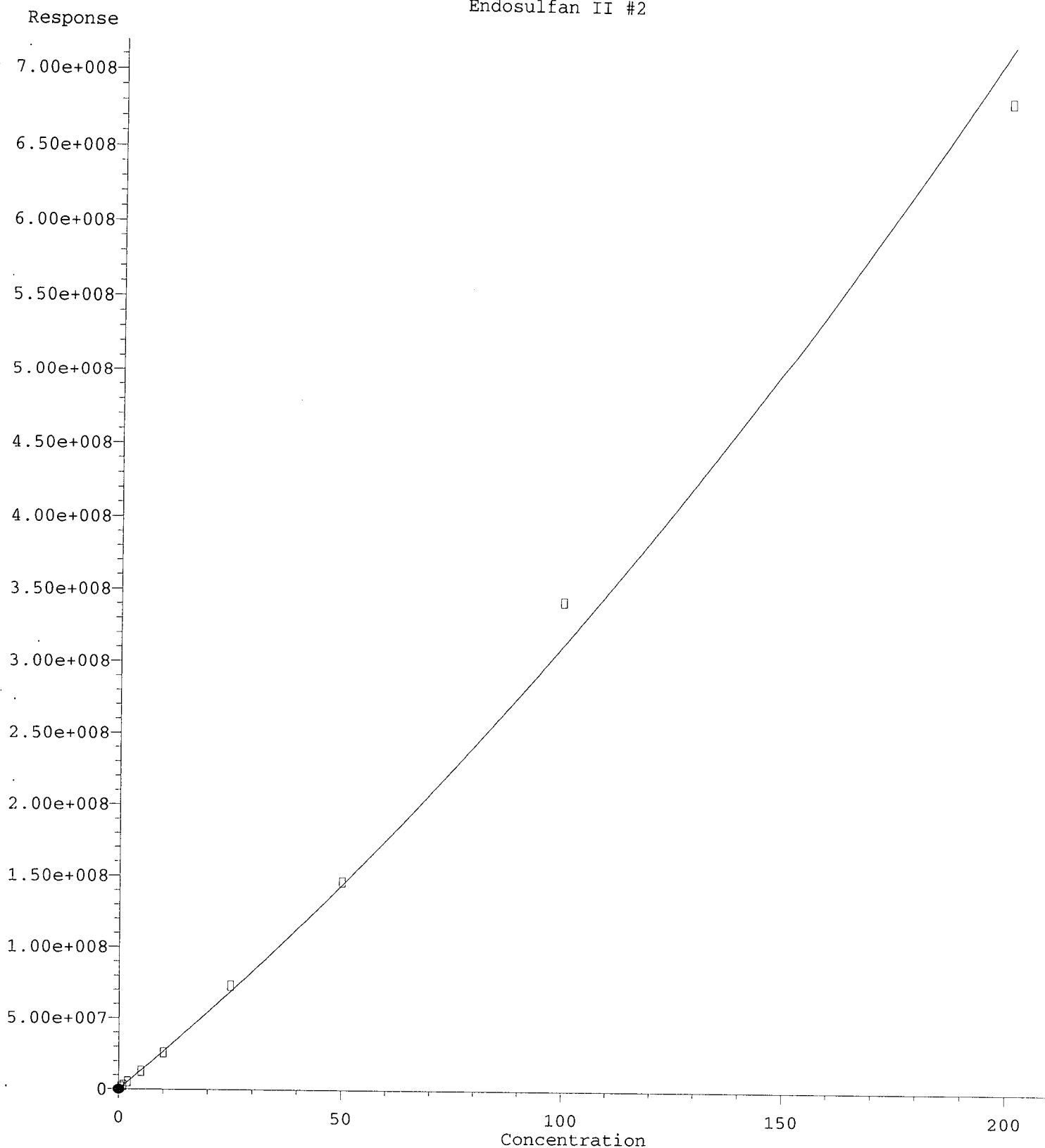


(15) 4,4'-DDD
7.915min 0.479 ng/mL
response 1218671

MJB
2/3/20

(15) 4,4'-DDD #2
8.736min 0.075 ng/mL (m)
response 74855

Endosulfan II #2

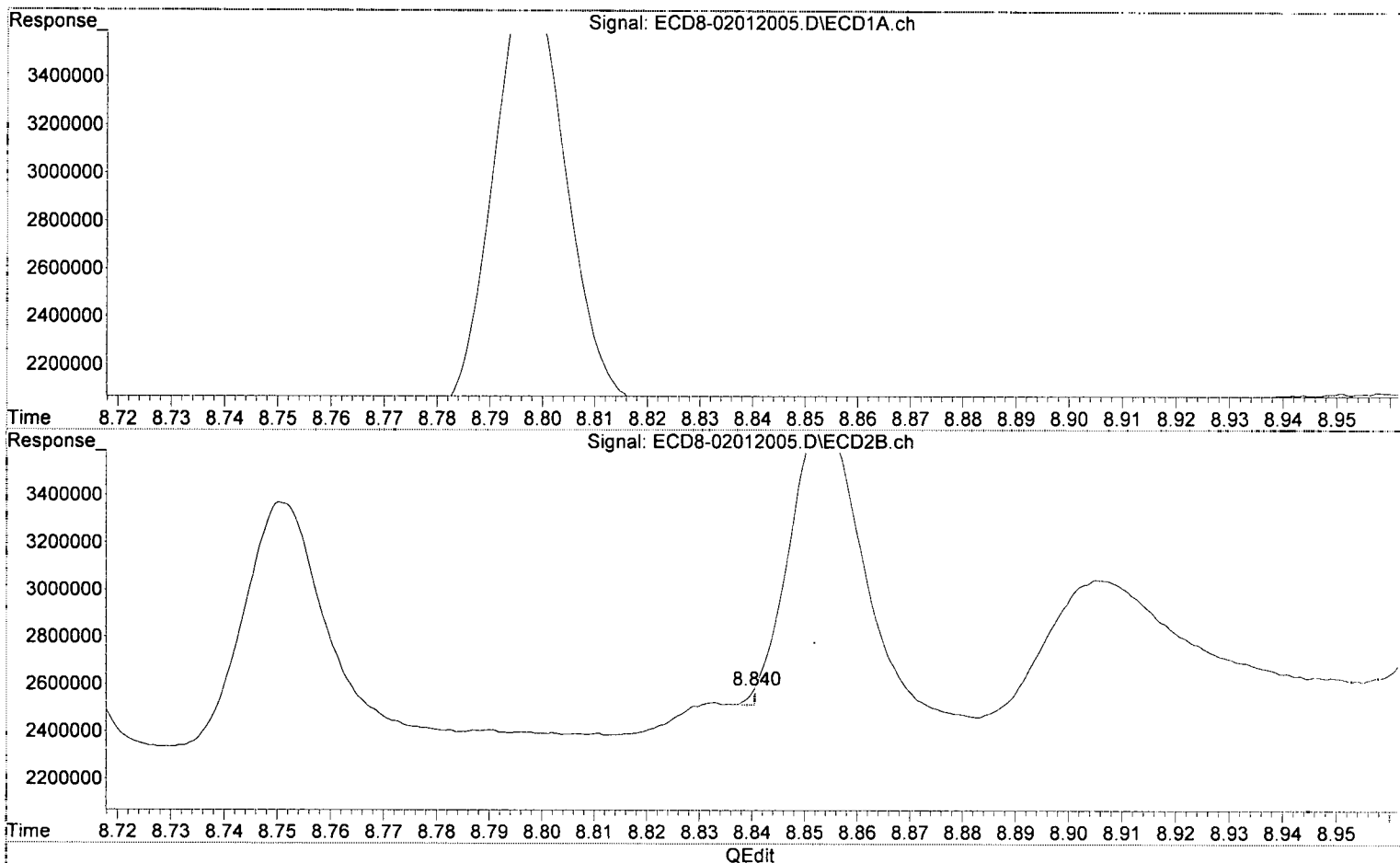


R = 4.81e+003 A*A + 2.64e+006 A + 8.03e+004
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w/(1/a^2)
04/07/20 Anchor OEA LLC Gasco Field DE 2019-4a-b DOC-CAP Testing Cores Page 399 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

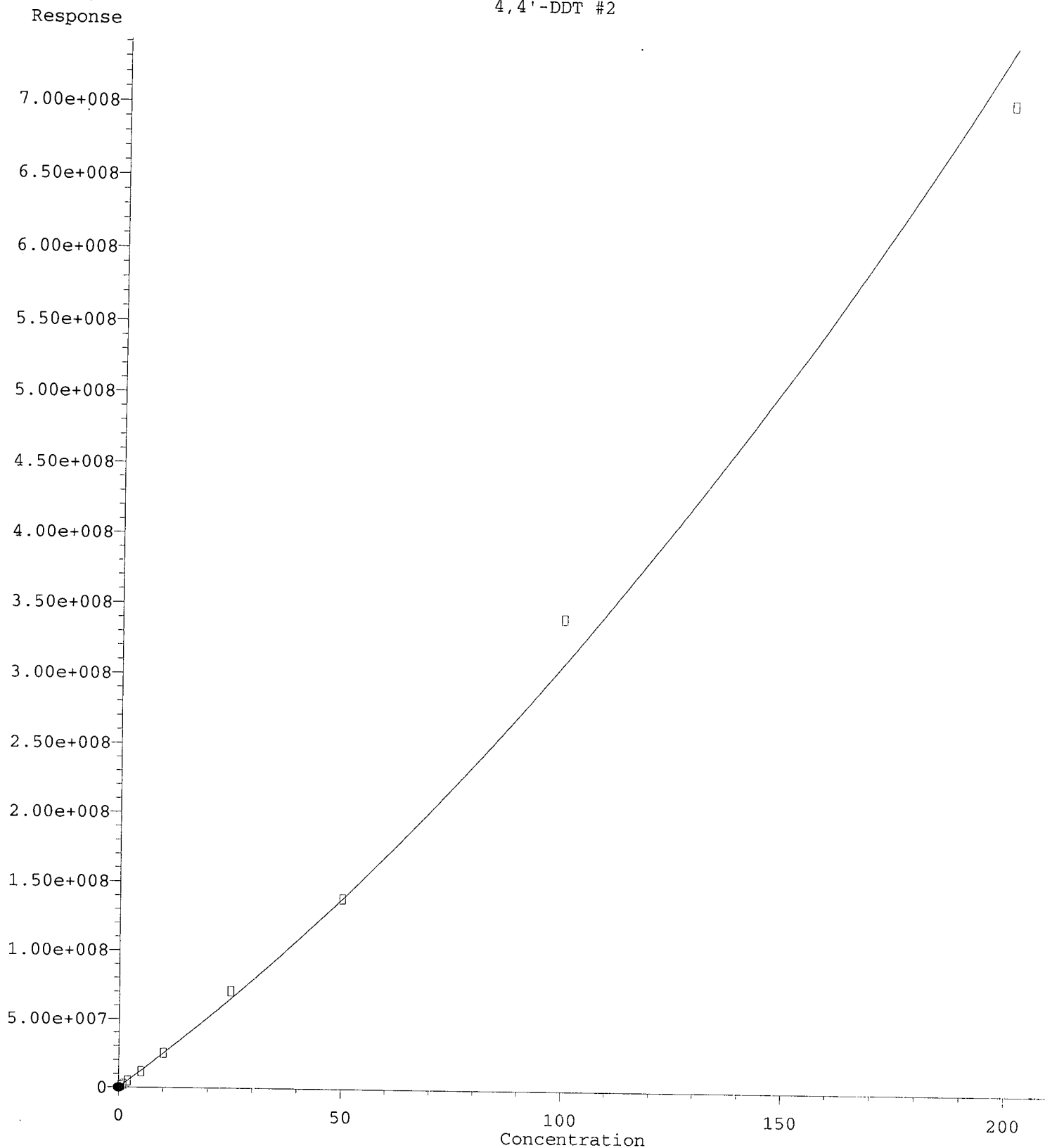


(16) Endosulfan II
8.013min 0.552 ng/mL
response 1650694

MJB
2/3/20

(16) Endosulfan II #2
8.840min -0.006 ng/mL (m)
response 64183

4,4'-DDT #2

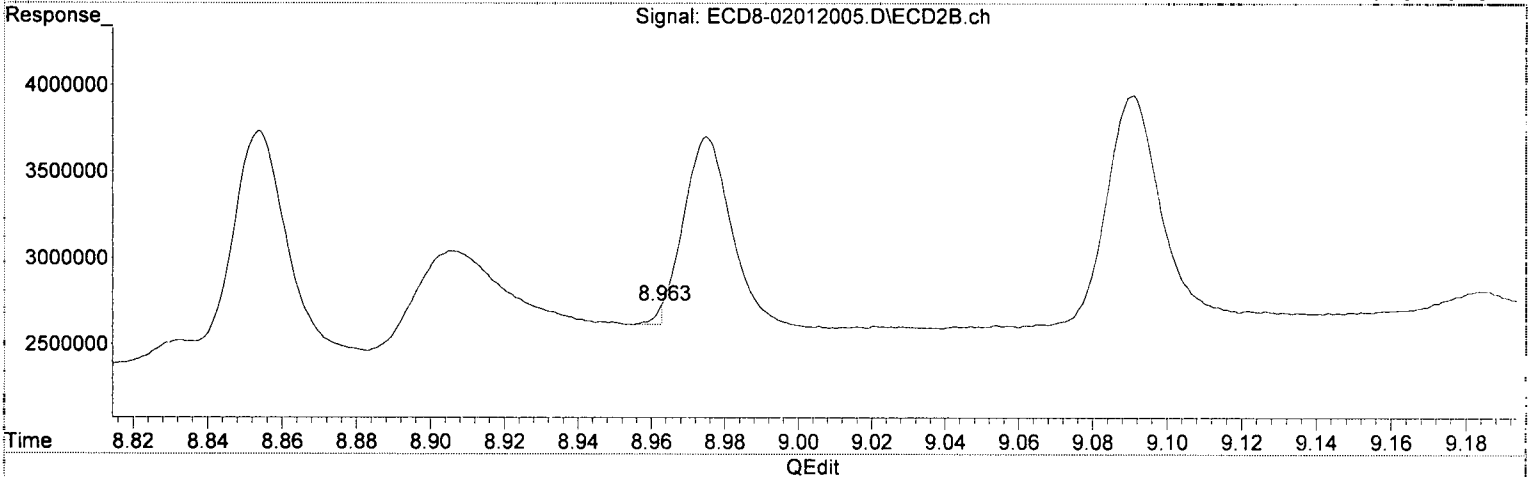
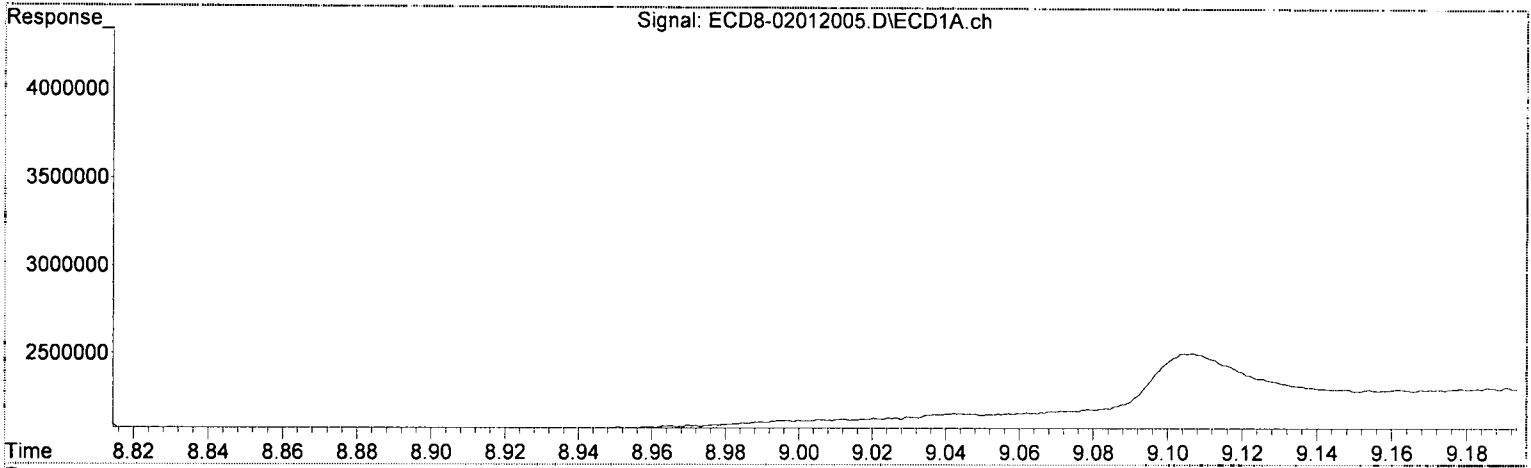


R = 6.32e+003 A*A + 2.45e+006 A + 6.29e+004
Coef of Det (r^2) = 0.994 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



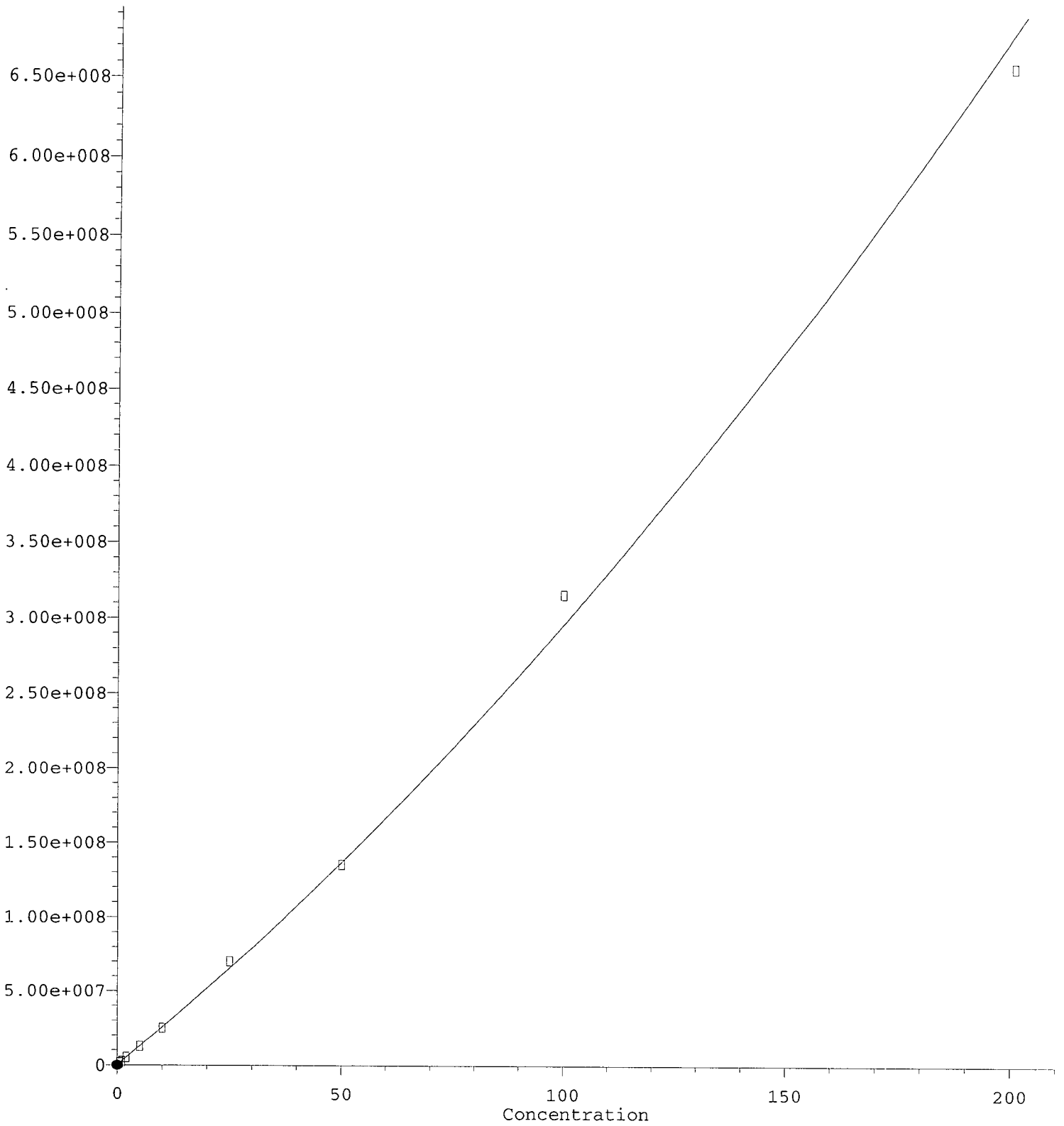
(17) 4,4'-DDT
8.110min 0.503 ng/mL
response 1351757

MJB
2/3/20

(17) 4,4'-DDT #2
8.963min 0.021 ng/mL (m)
response 113728

Endosulfan Sulfate #2

Response



$R = 4.57e+003 A^2 + 2.50e+006 A + 2.22e+005$

Coef of Det (r^2) = 0.997

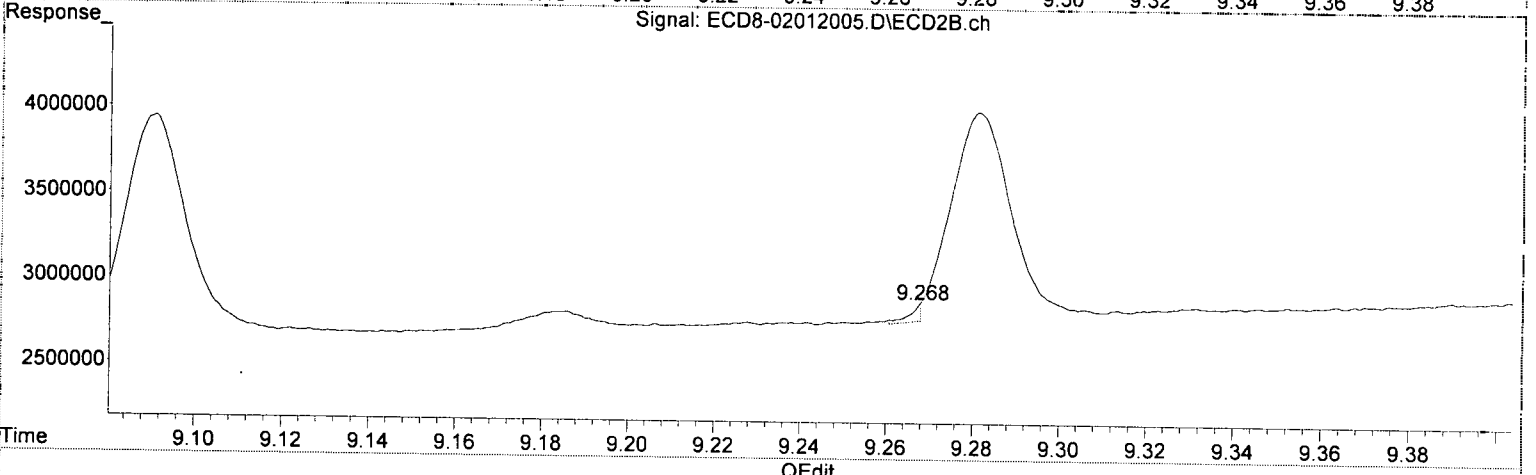
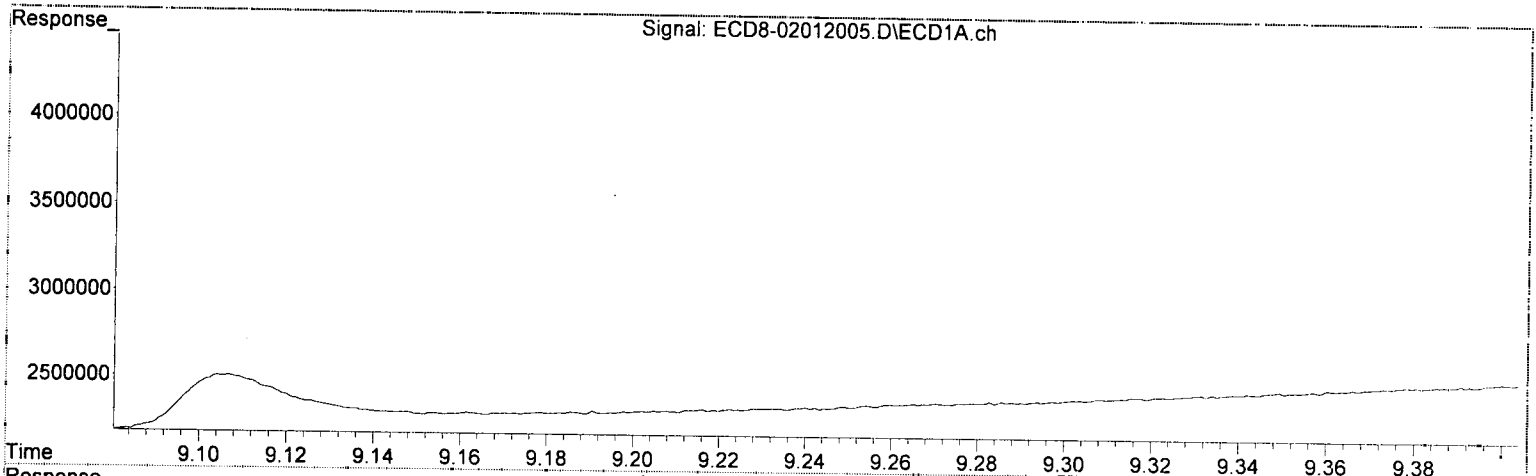
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M

Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(19) Endosulfan Sulfate

8.604min 0.541 ng/mL

response 1548557

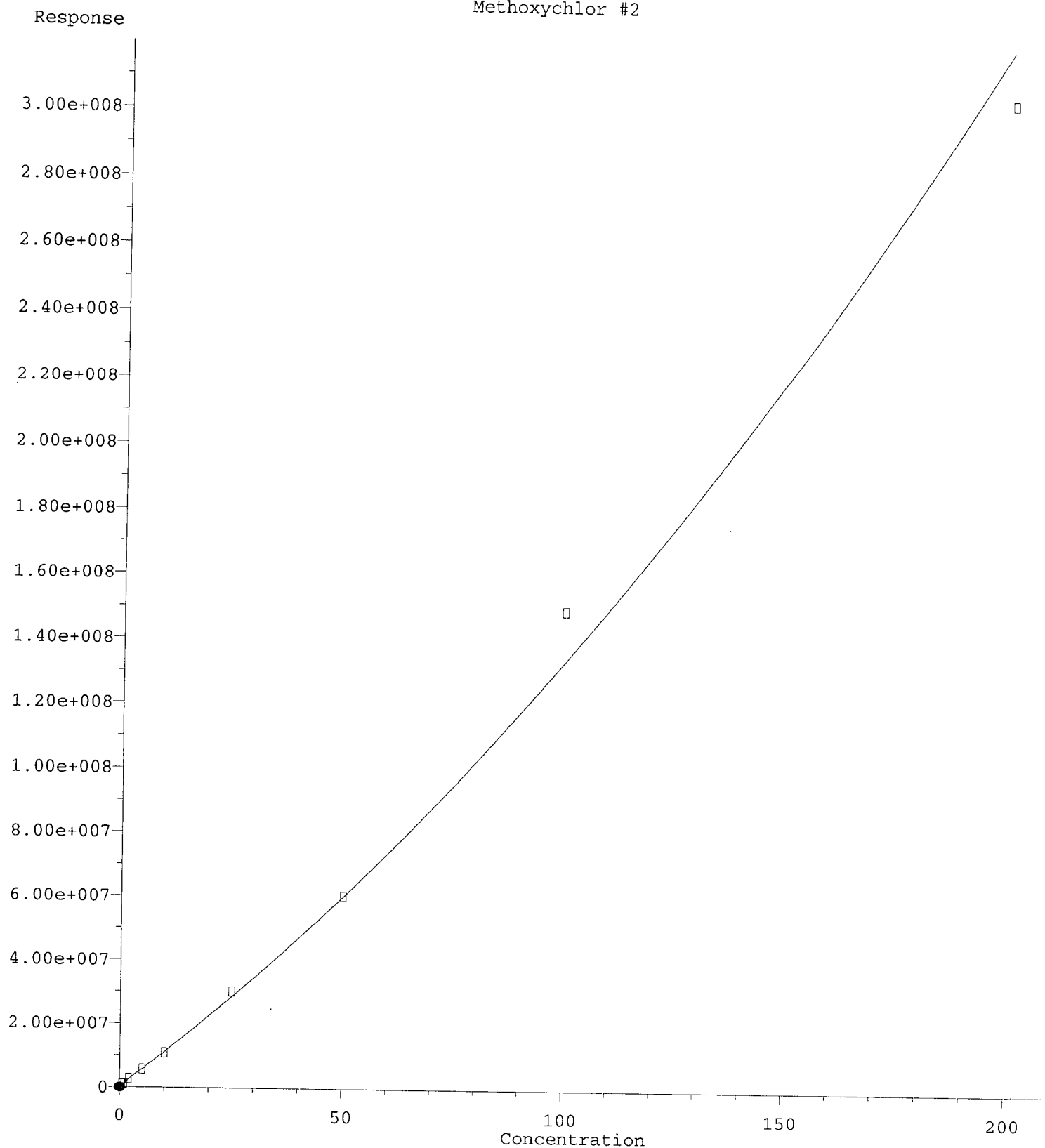
*MJB
2/3/20*

(19) Endosulfan Sulfate #2

9.268min -0.049 ng/mL (m)

response 99158

Methoxychlor #2

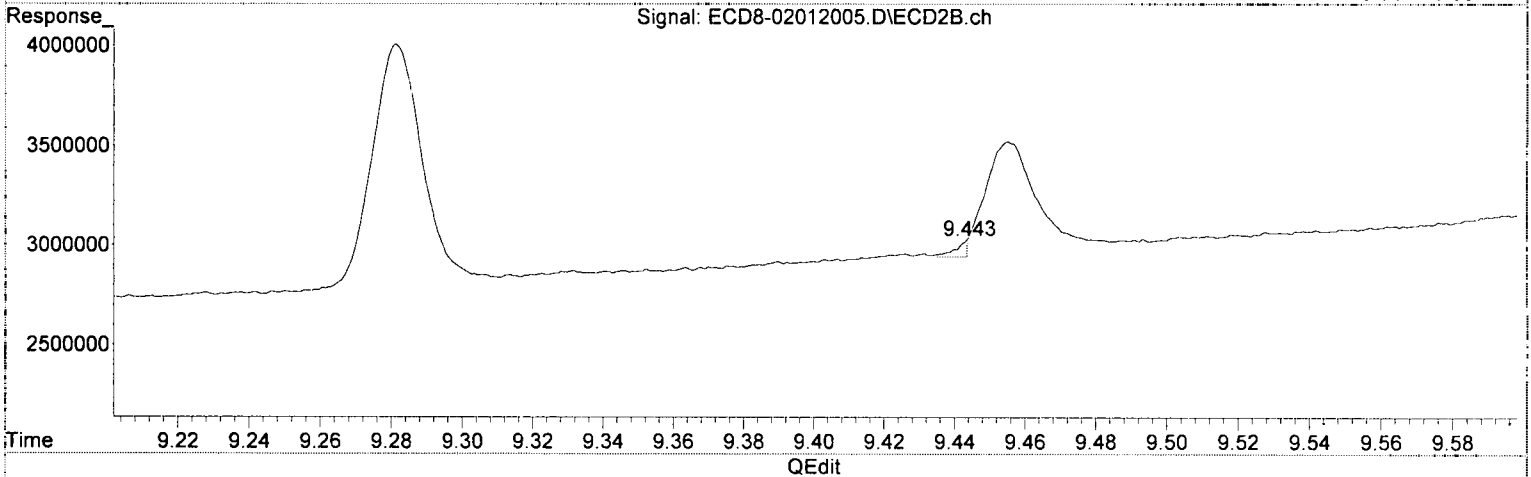
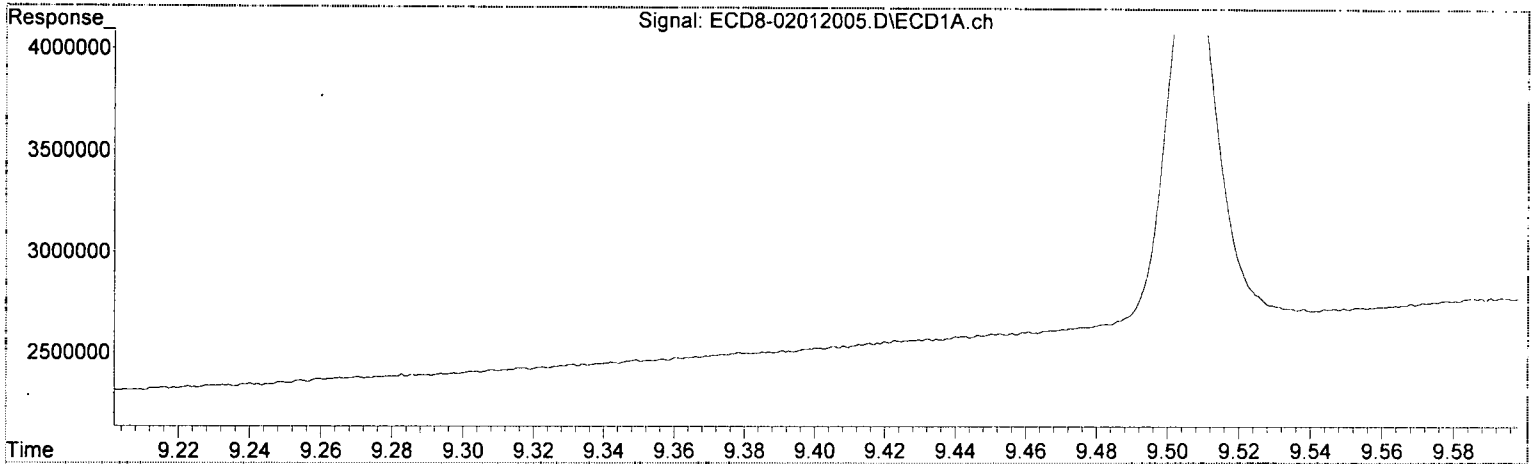


R = 2.73e+003 A*A + 1.06e+006 A + 3.97e+005
Coef of Det (r^2) = 0.988 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msc\chem\1\methods\ECDS_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



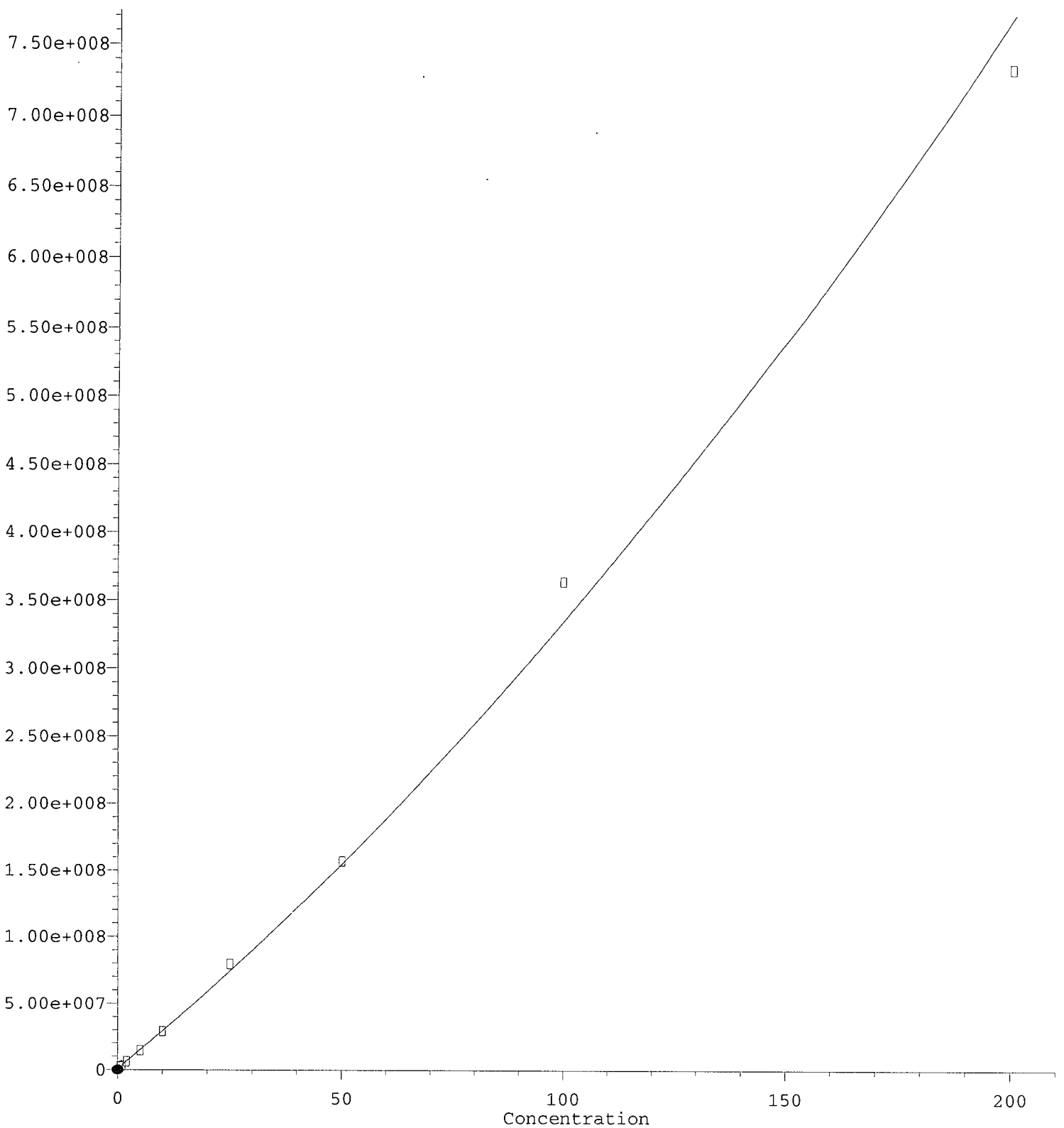
(20) Methoxychlor
8.454min 0.539 ng/mL
response 650344

MJB
2/3/20

(20) Methoxychlor #2
9.443min -0.297 ng/mL (m)
response 82761

Endrin Ketone #2

Response



$R = 5.21e+003 A^2 + 2.82e+006 A + 6.29e+005$

Coef of Det (r^2) = 0.995 Curve Fit: Quadratic w(1/a^2)

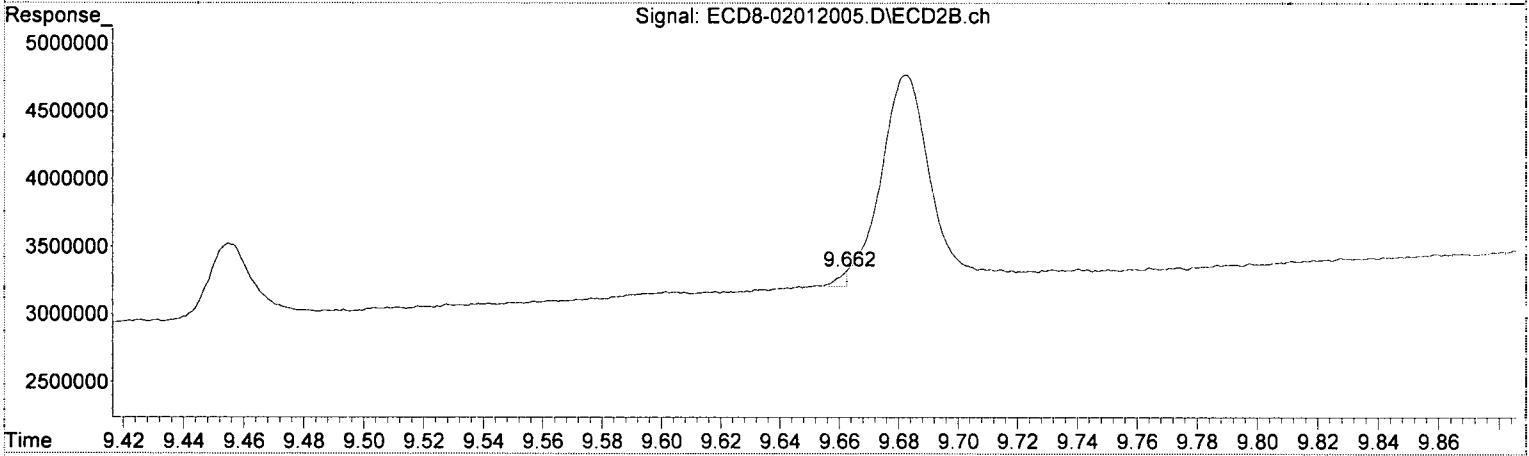
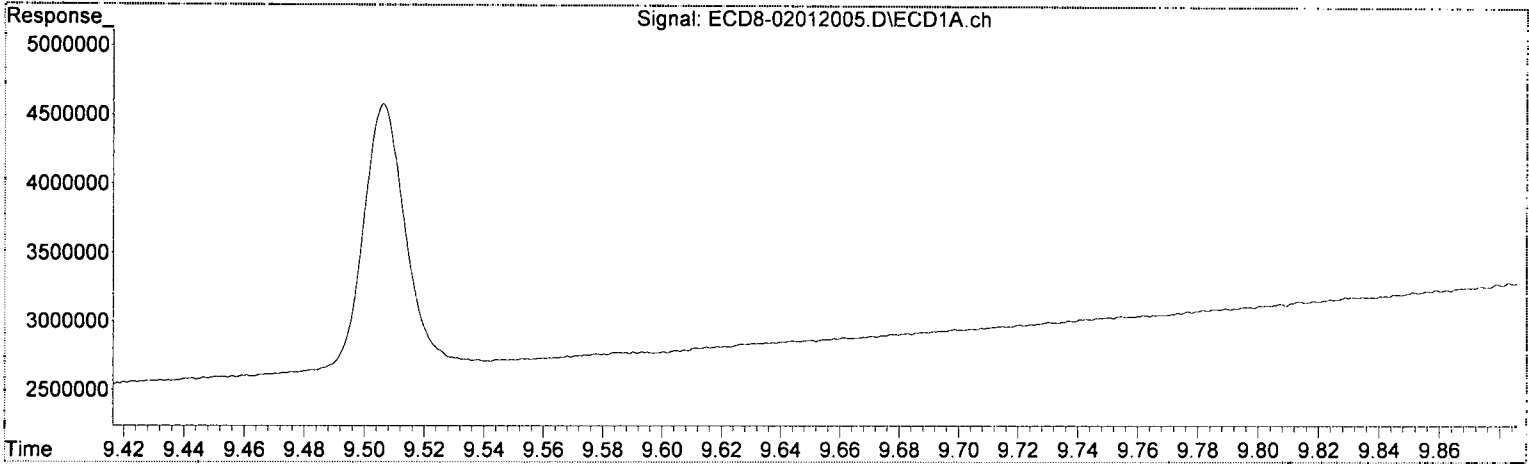
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M

Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

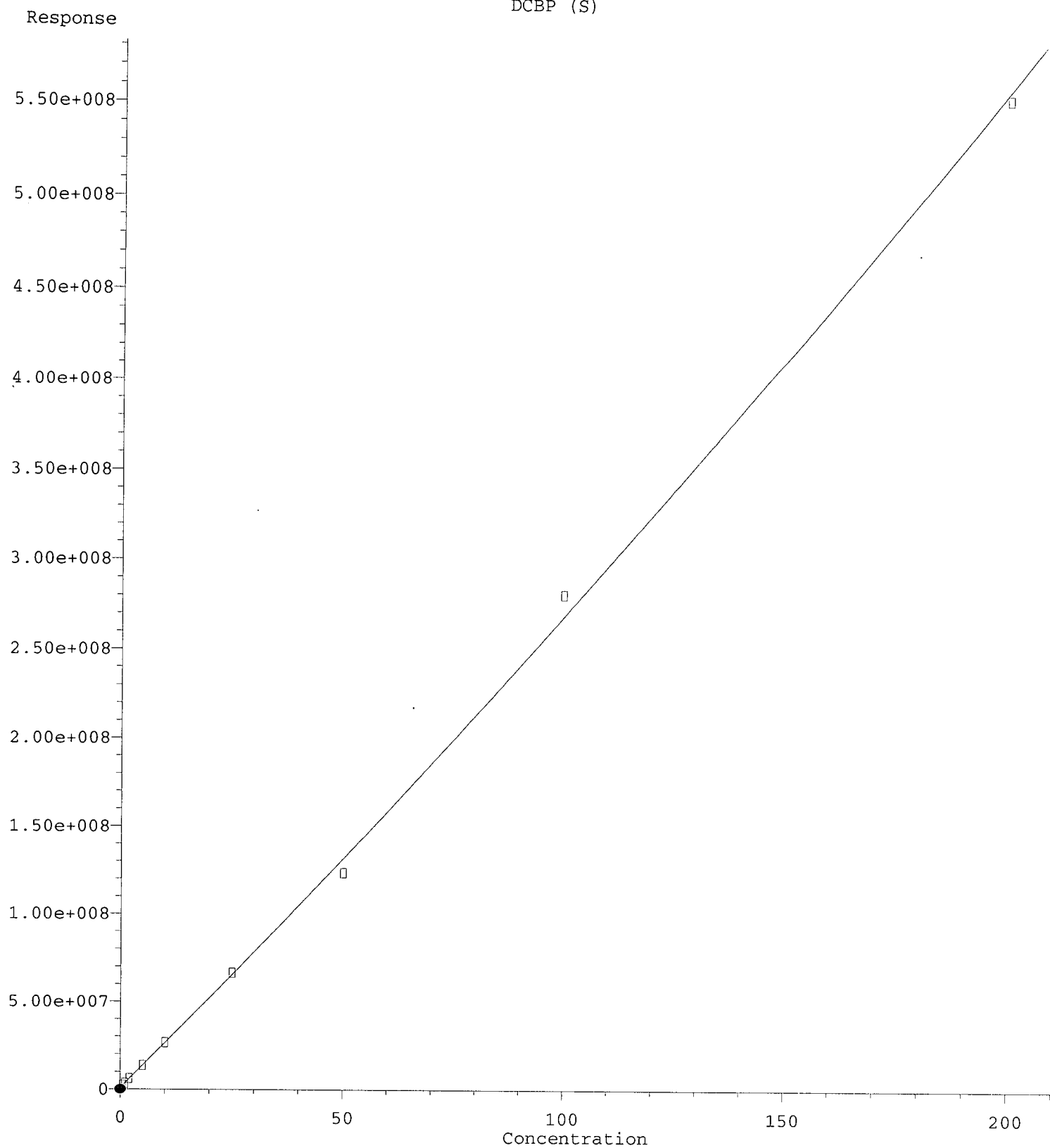


(21) Endrin Ketone
8.797min 0.540 ng/mL
response 1865728

NDB
2/3/20

(21) Endrin Ketone #2
9.662min -0.183 ng/mL(m)
response 113206

DCBP (S)

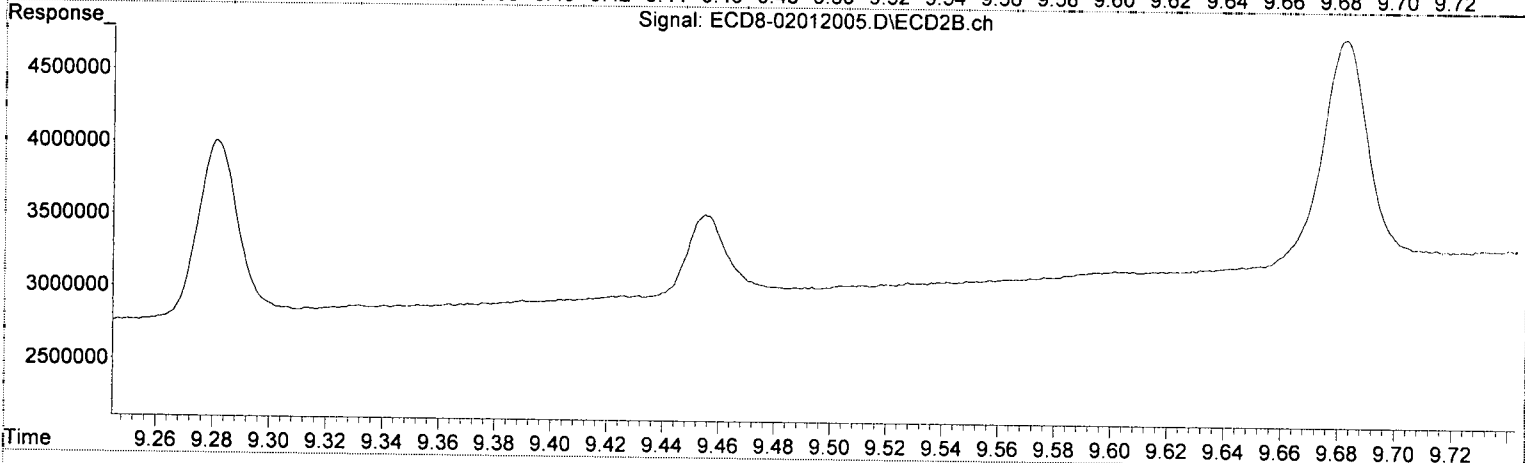
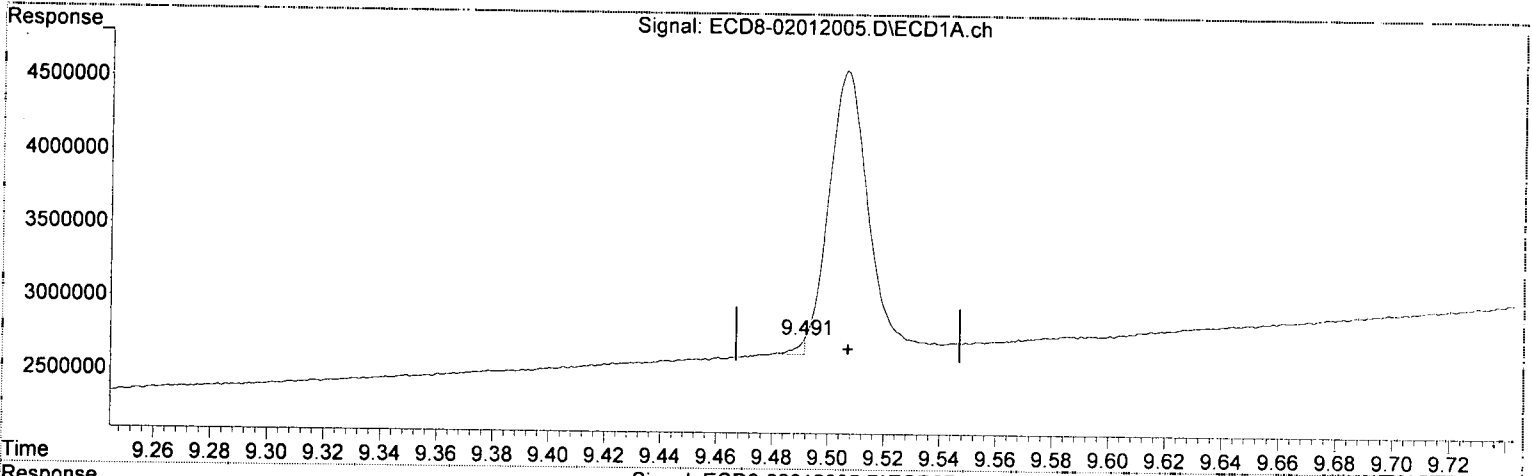


R = 1.20e+003 A*A + 2.55e+006 A + 8.55e+005
Coef of Det (r^2) = 0.999
04/07/20 Anchor QEA, LLC - Gasco PerRD-DC 2019-4a-b BOC-CAP Testing Cores Page 409 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

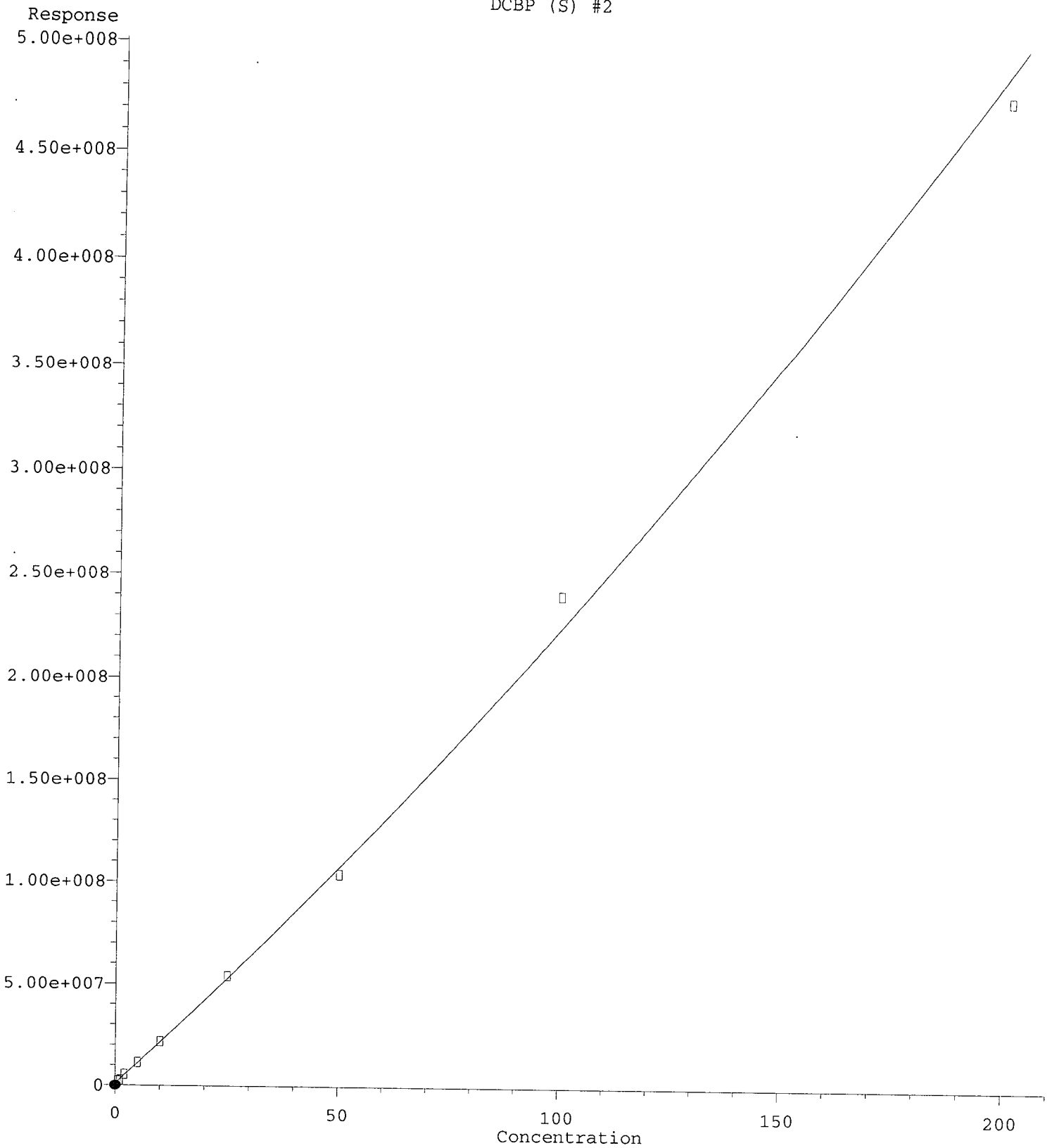


(22) DCBP (S) (S)
9.491min -0.295 ng/mL (m)
response 101899

MJB
2/3/20

(22) DCBP (S) #2 (S)
10.537min 0.543 ng/mL
response 2121210

DCBP (S) #2

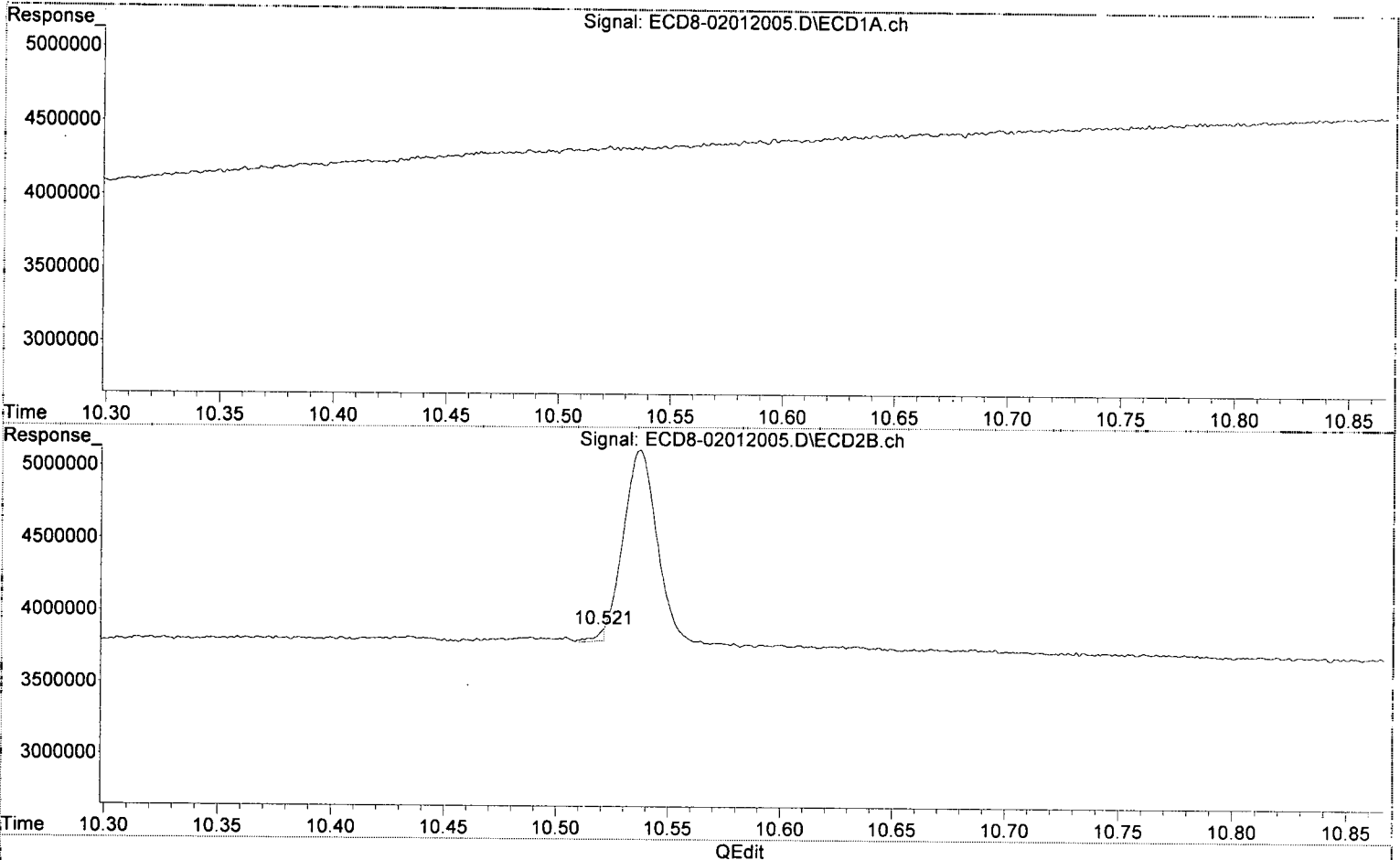


R = 2.17e+003 A*A + 2.02e+006 A + 1.03e+006
Coef of Det (r^2) = 0.991 Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ANCHOR\GAS\GAS\PIERD.DG 2019-4a-b.DOC-CAP Testing Cores Page 411 of 731
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

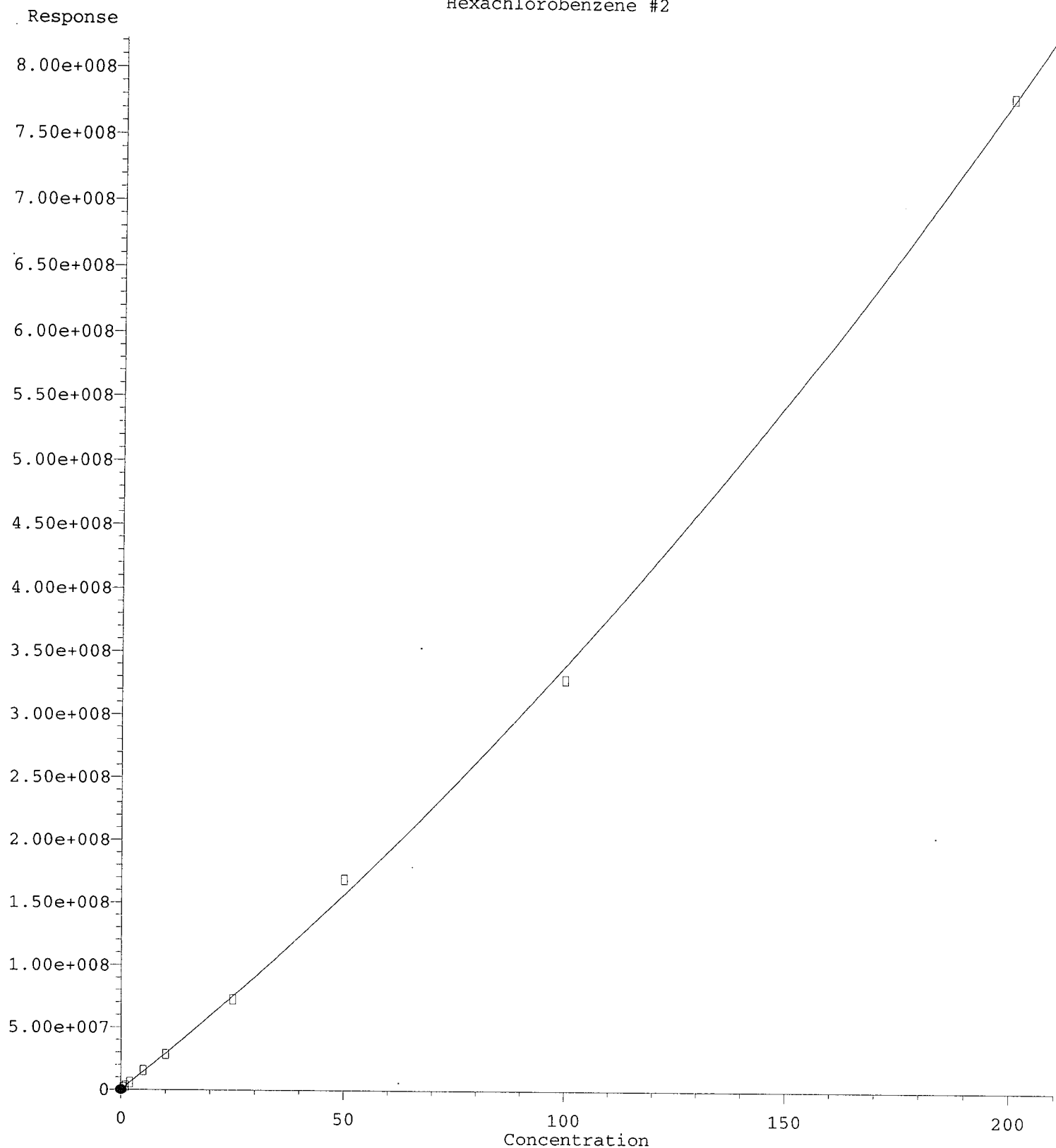


(22) DCBP (S) (S)
9.491min -0.295 ng/mL m
response 101899

MJB
2/3/20

(22) DCBP (S) #2 (S)
10.521min -0.468 ng/mL(m)
response 82061

Hexachlorobenzene #2

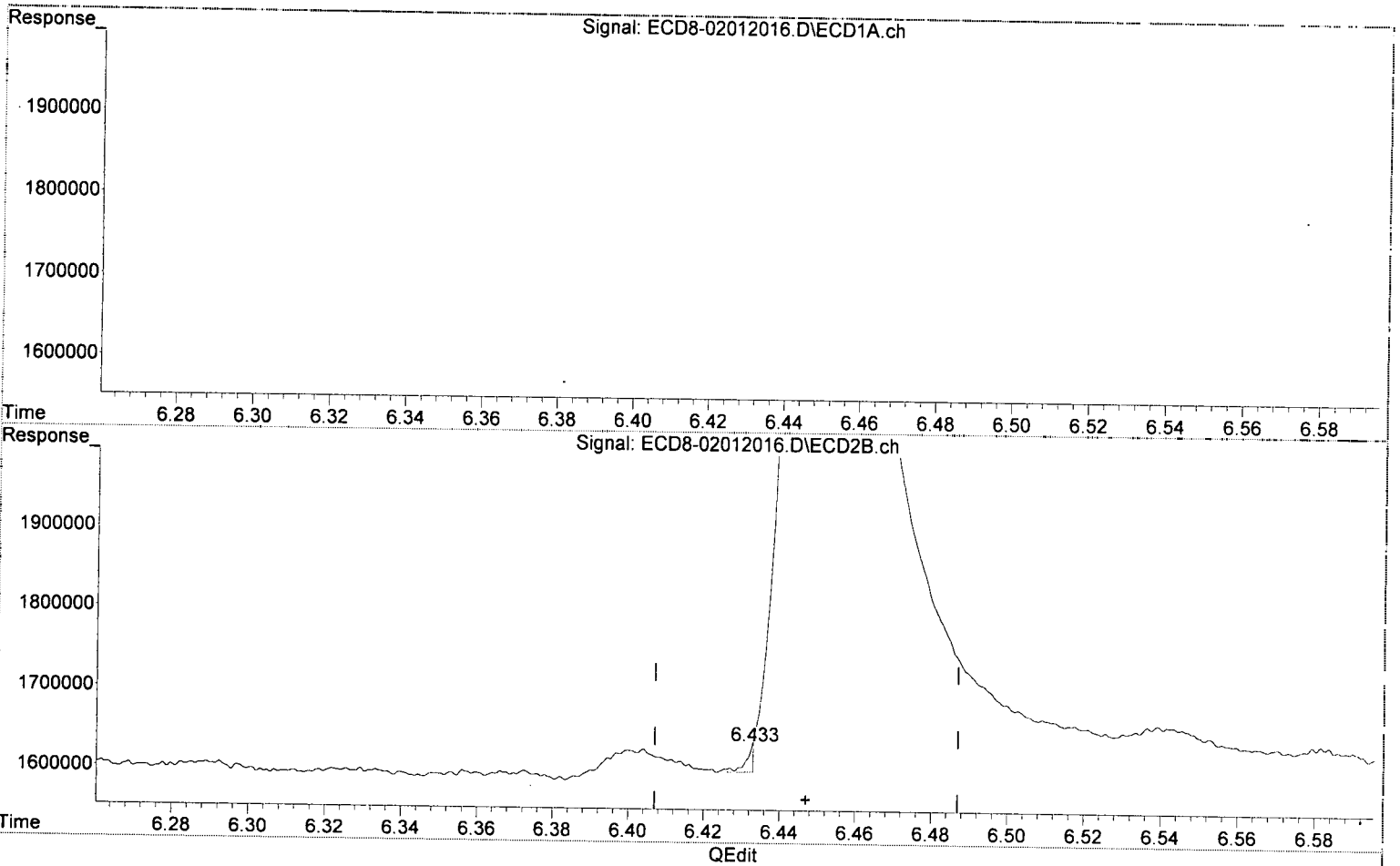


R = 5.17e+003 A*A + 2.87e+006 A + 1.57e+005
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w/(1/a^2)
04/07/20 Anchor QEA LLC Gasco PerRO 2019-4a-b POC-CAP Testing Cores Page 413 of 731
Method Name: C:\mschem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(24) Hexachlorobenzene

5.681min 0.564 ng/mL

response 1894604

MJB
2/3/20

(24) Hexachlorobenzene #2

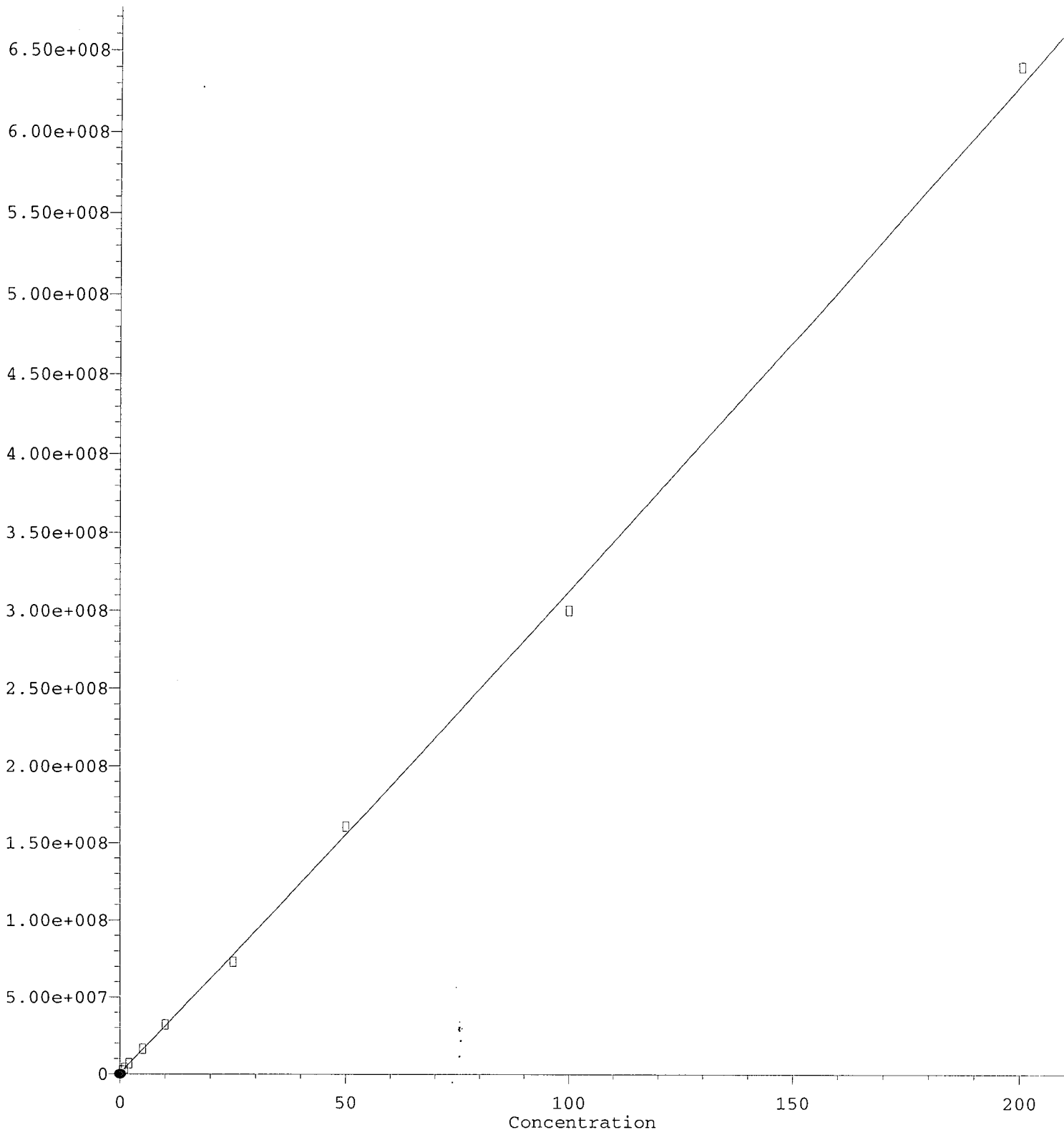
6.433min -0.043 ng/mL (m)

response 32864

(+) = Expected Retention Time

Oxychlorthane

Response

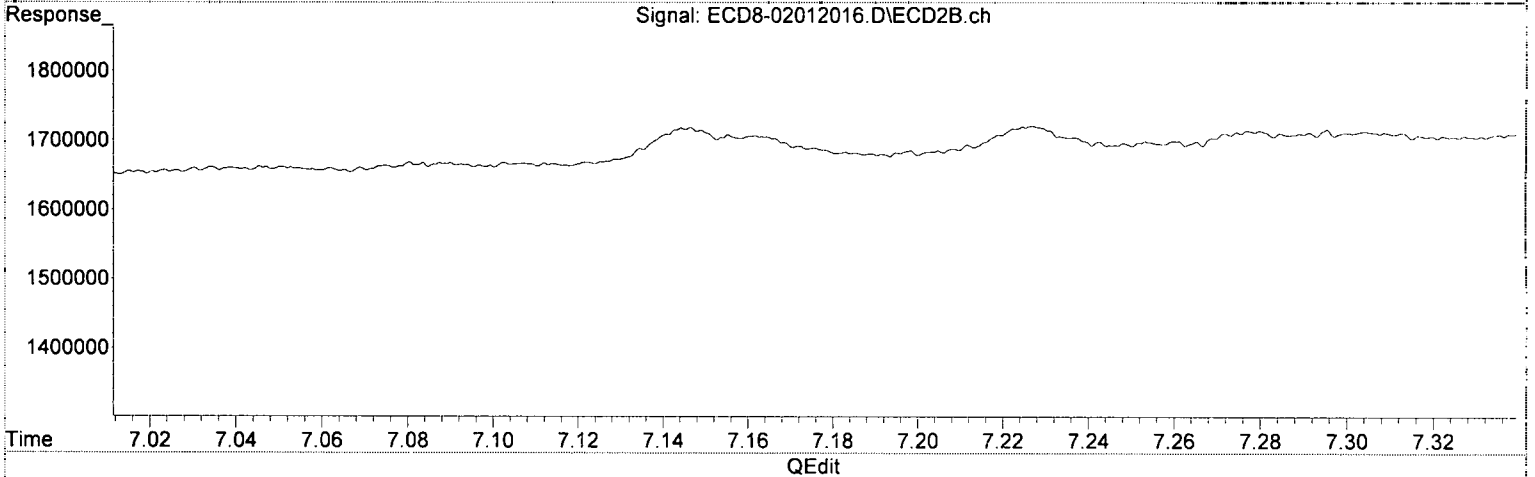
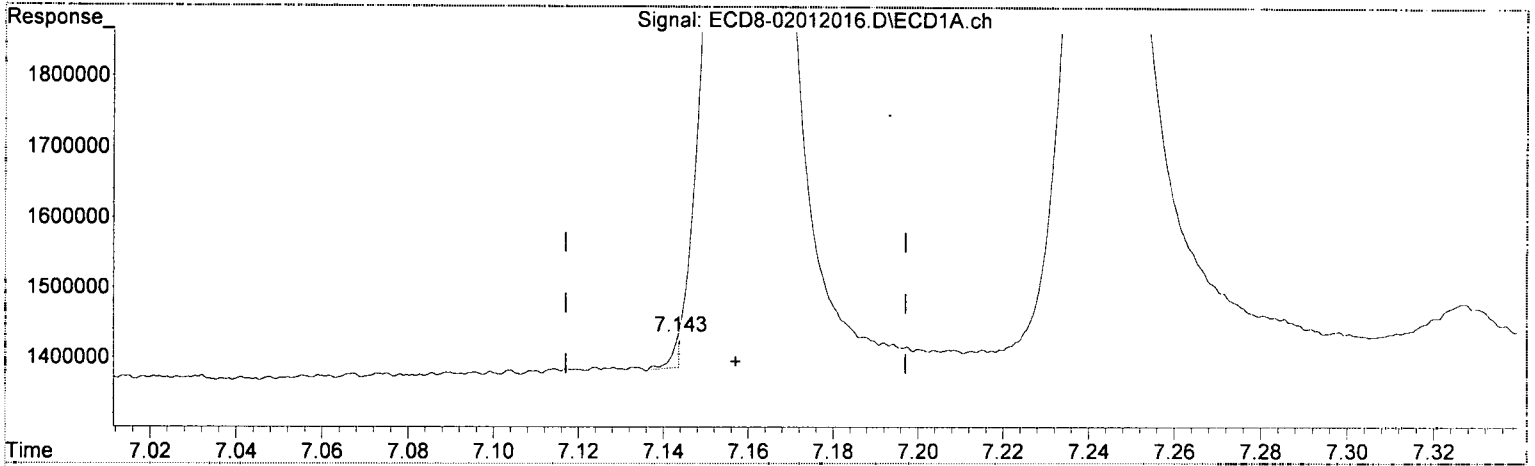


R = 4.64e+002 A*A + 3.07e+006 A + 5.52e+005
Coef of Det (r^2) = 0.999
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



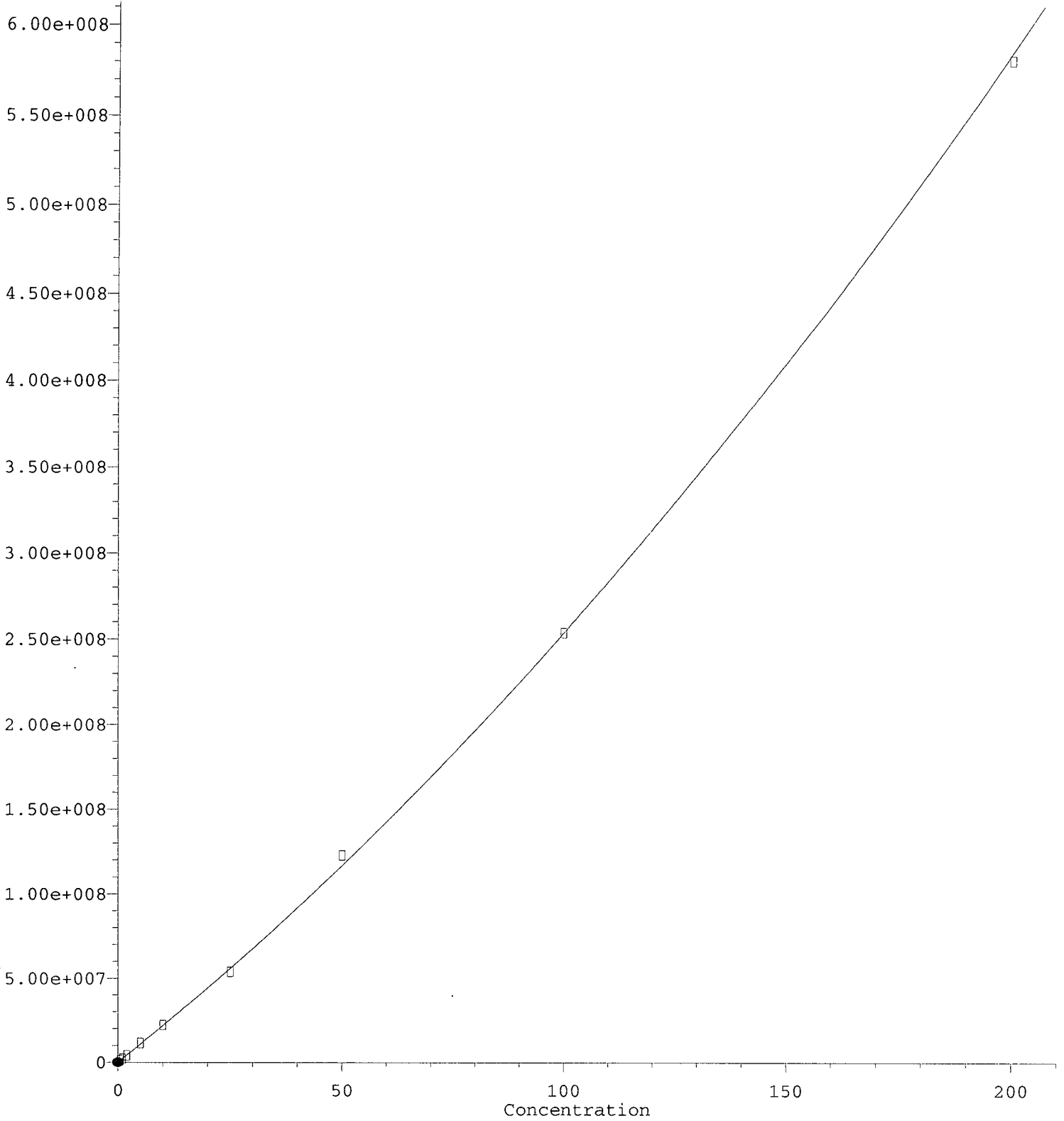
(25) Oxychlordane
7.143min -0.165 ng/mL(n)
response 44172

MJB
2/3/20

(25) Oxychlordane #2
7.908min 0.568 ng/mL
response 1817597

2,4'-DDT #2

Response

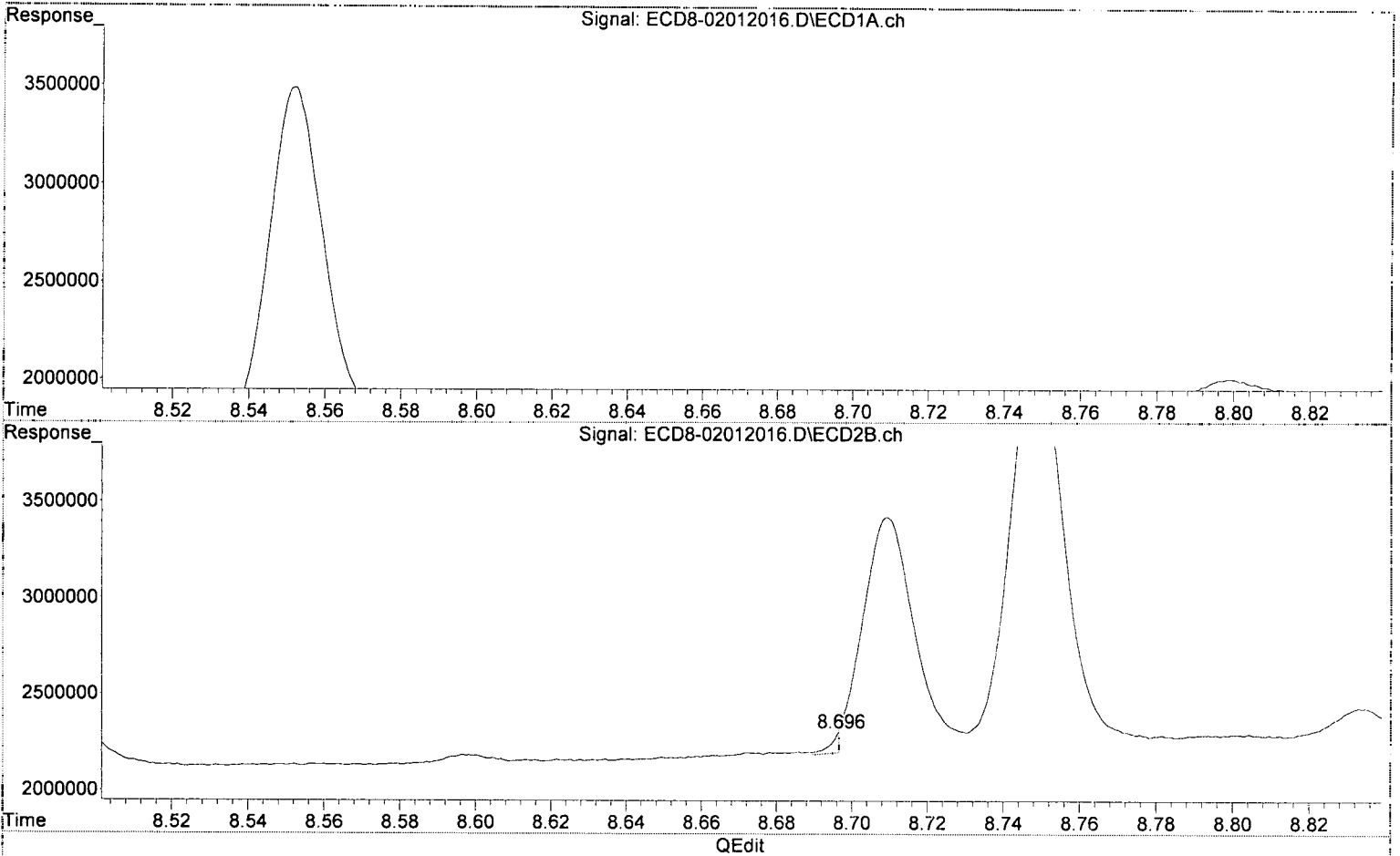


R = 4.06e+003 A*A + 2.13e+006 A + 1.05e+005
Coef of Det (r^2) = 0.998
Curve Fit: Quadratic w(1/a^2)
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
04/07/20 Anchor QEA, LLC - Gasco PIERD, DG 2019 - 4a-b DOC-CAP Testing Cores Page 417 of 731
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

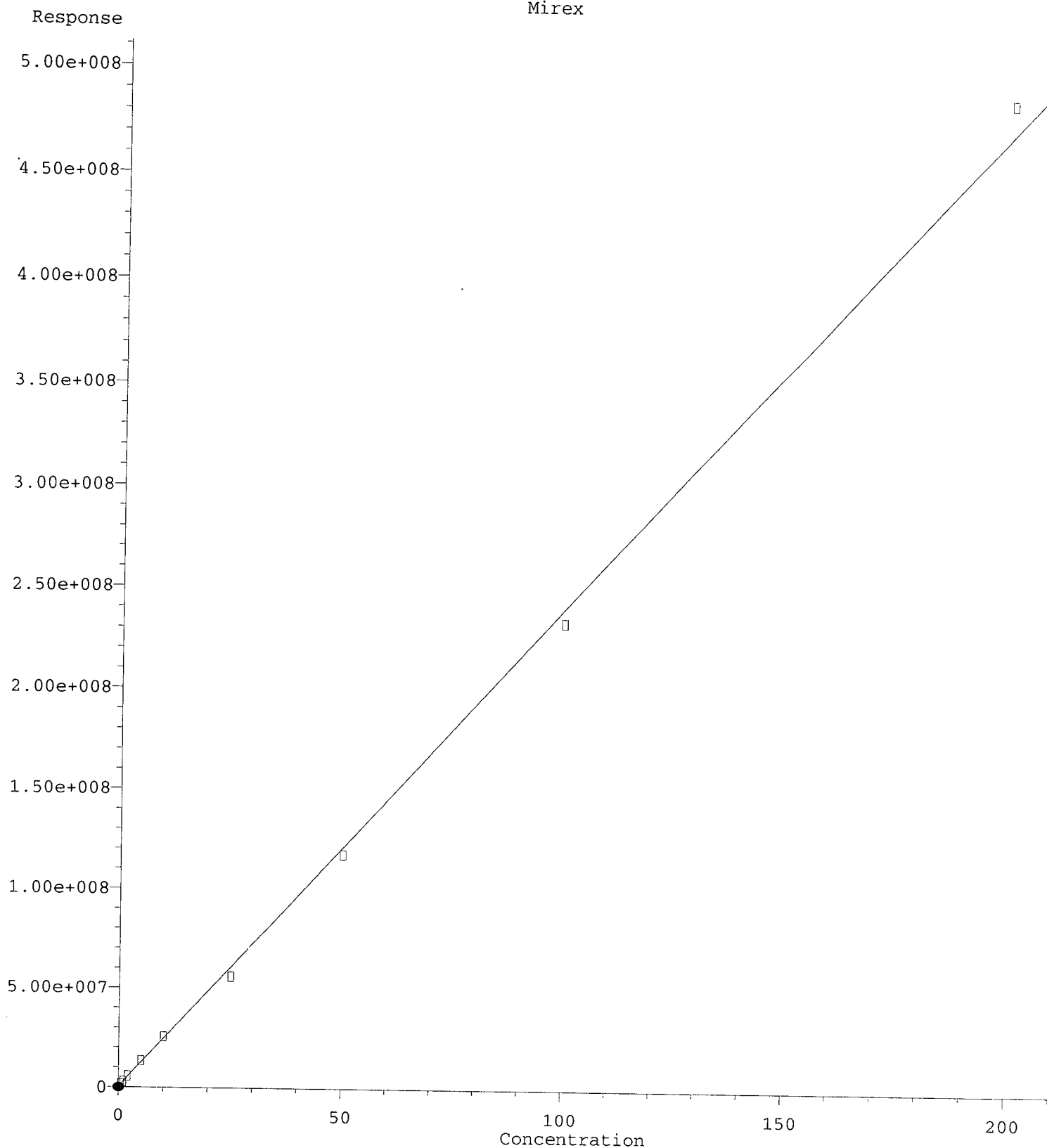


(29) 2,4'-DDT
7.797min 0.593 ng/mL
response 1418724

MJB
2/3/20

(29) 2,4'-DDT #2
8.696min -0.000 ng/mL(n)
response 104421

Mirex

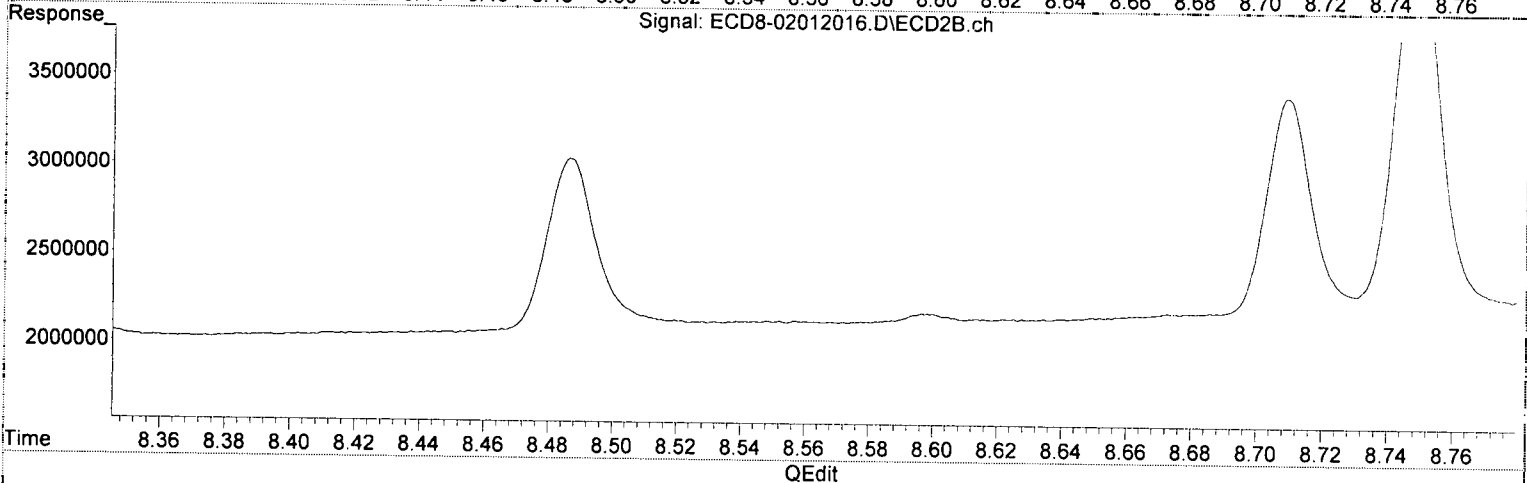
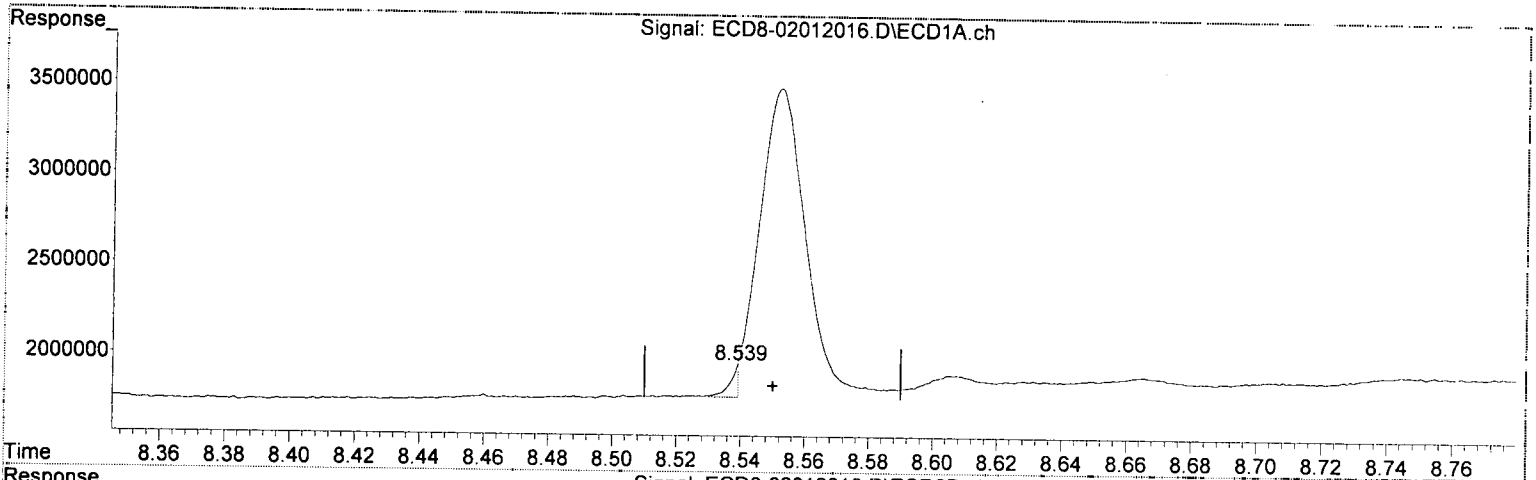


R = -2.95e+002 A*A + 2.42e+006 A + 5.00e+005
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w/(1/a^2)
04/07/20 Anchor QEA, LLC - Gasco PreRD DG 2019-4a-b-DOC-CAP Testing Cores Page 419 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:31
 Operator : MJB
 Sample : 0B01012-CALA
 Misc : A20B003, 9-42 0.5 ppb
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:49:29 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



(31) Mirex

8.539min 8199.054 ng/mL(m)

response 181602

MJB
2/3/20

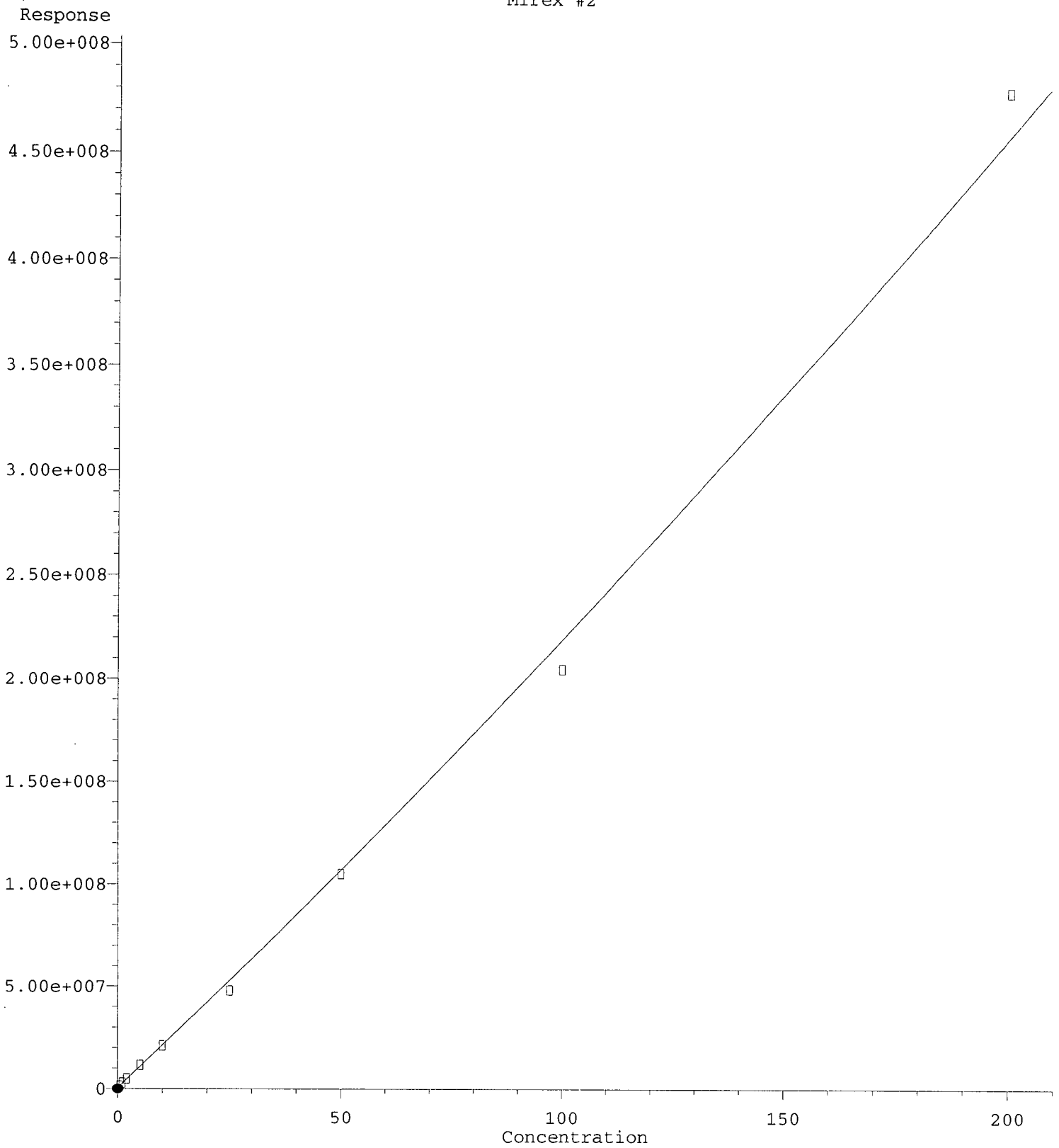
(31) Mirex #2

9.675min 0.461 ng/mL

response 1475836

(+) = Expected Retention Time

Mirex #2



$R = 1.11e+003 A^2 + 2.07e+006 A + 5.22e+005$

Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)

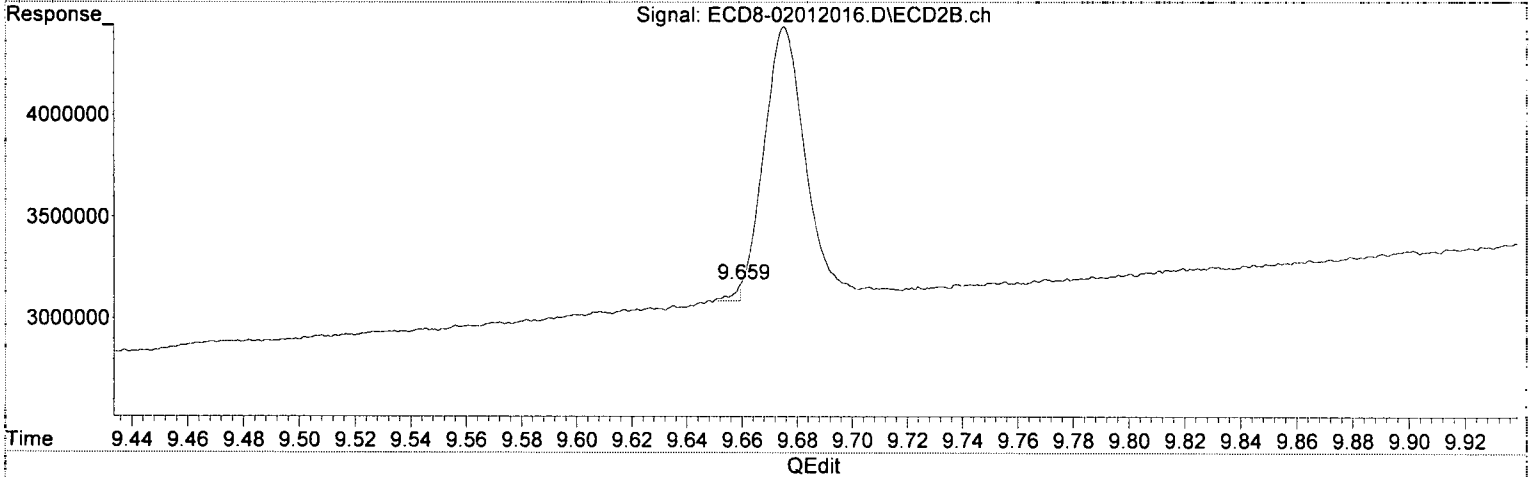
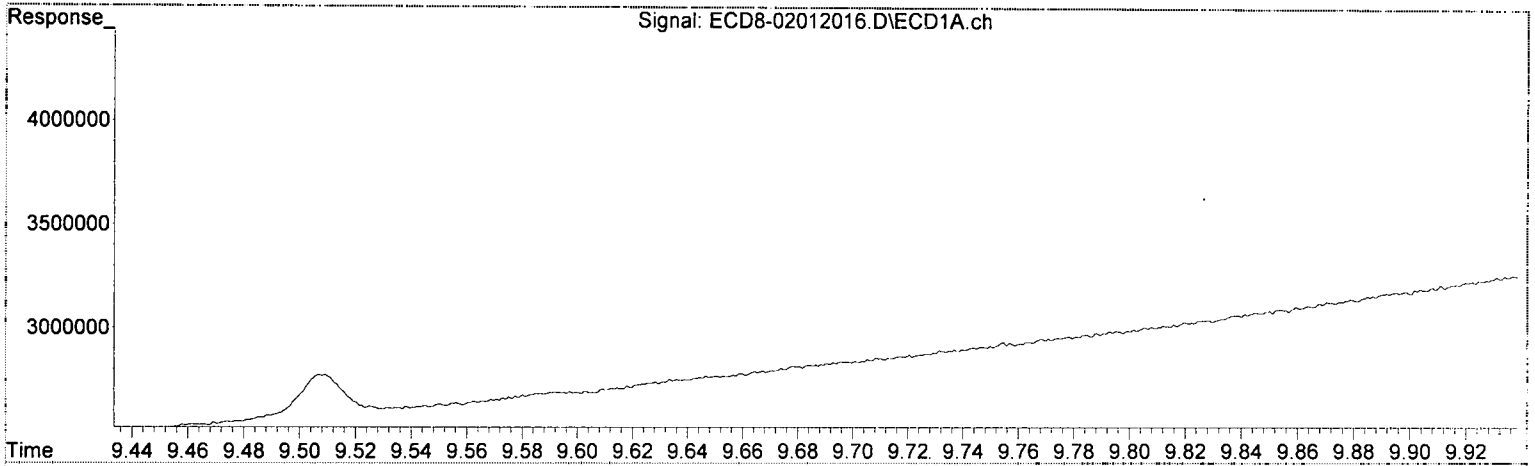
Method Name: C:\msdchem\1\methods\ECB8_QC\ANALYSIS_2019_108.M

Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation

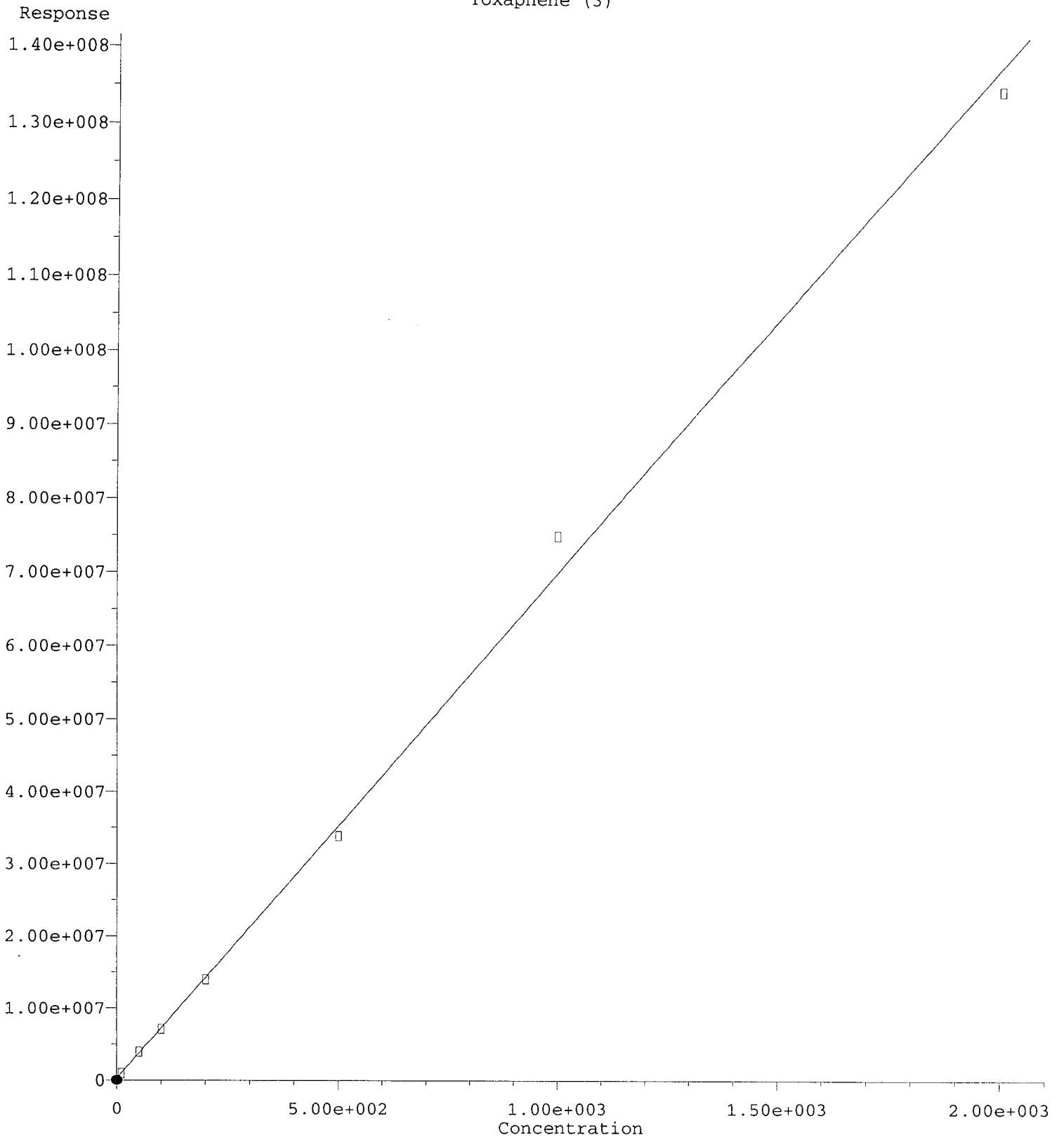


(31) Mirex
8.539min 8199.054 ng/mL m
response 181602

MJB
4/3/20

(31) Mirex #2
9.659min -0.212 ng/mL (m)
response 83389

Toxaphene (3)

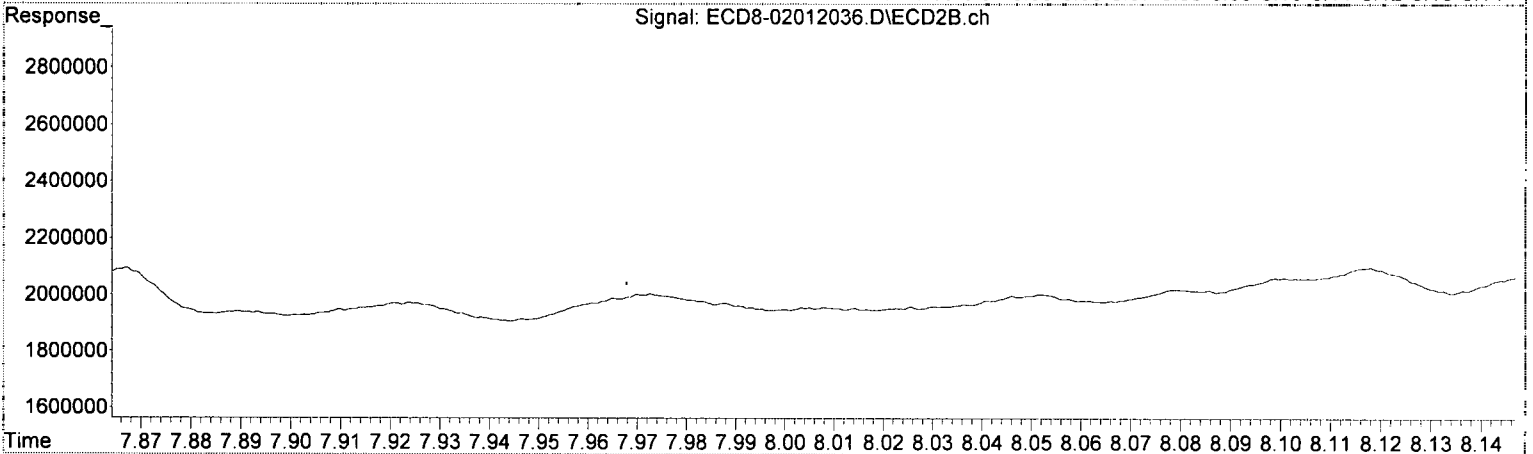
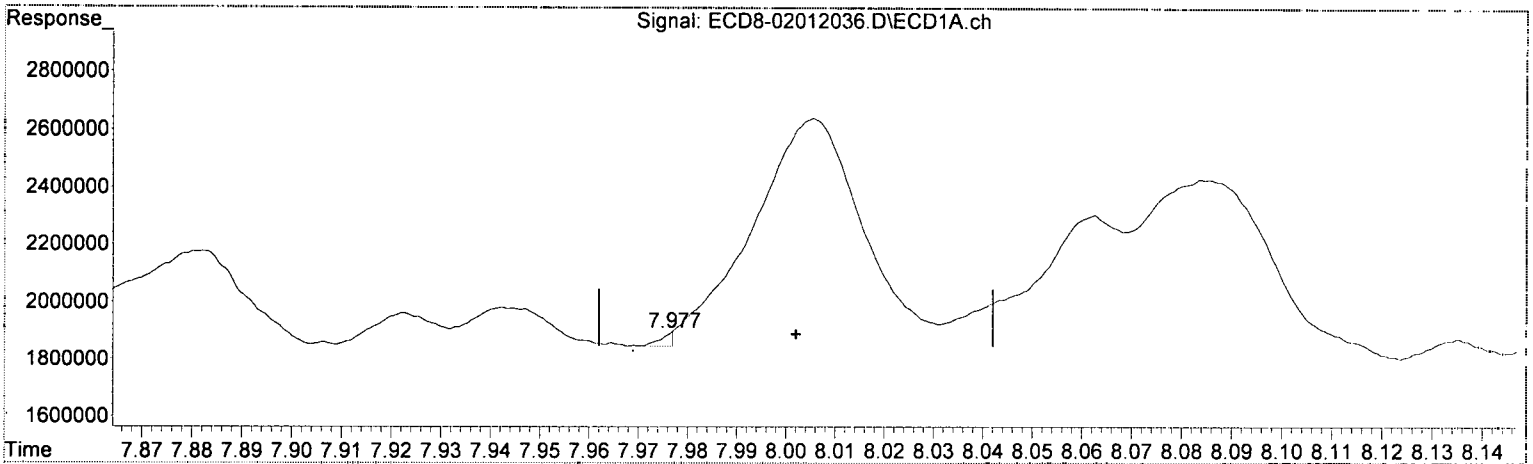


R = -7.28e-001 A*A + 7.04e+004 A + 2.22e+005
Coef of Det (r²) = 0.998 Curve Fit: Quadratic w(1/a²)
04/07/20 Anchor QFA LLC Gasco Prep DG 2019 Lab DOC CAP Testing Cores Page 423 of 731
Method Name: C:\msdchem\1\methods\ECD8_QUANT_PEST_200108.M
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



QEdit

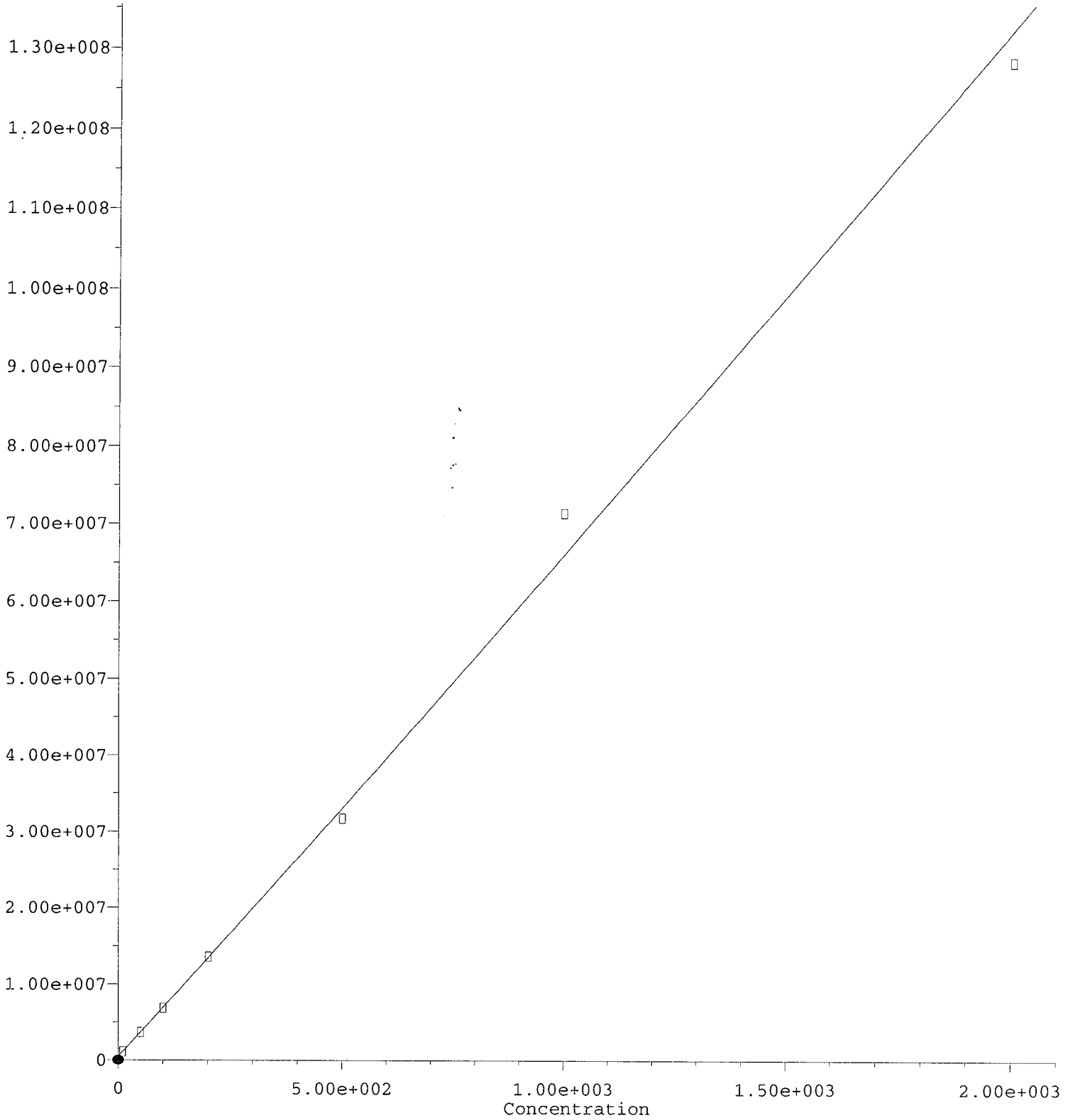
~~(38) Toxaphene (3)
7.977min 96753.255 ng/mL (m)
response 47861~~ *add*

*MJB
2/3/20*

(38) Toxaphene (3) #2
8.838min 10.732 ng/mL
response 694351

Toxaphene (4)

Response



$R = 6.76e-001 A^2 + 6.49e+004 A + 4.50e+005$

Coef of Det (r²) = 0.998 Curve Fit: Quadratic w(1/a²)

04/07/20 Anchor QEA LLC Gasco PrepD DG 2019 4a-b.DOC CAP Testing Cores Page 425 of 731

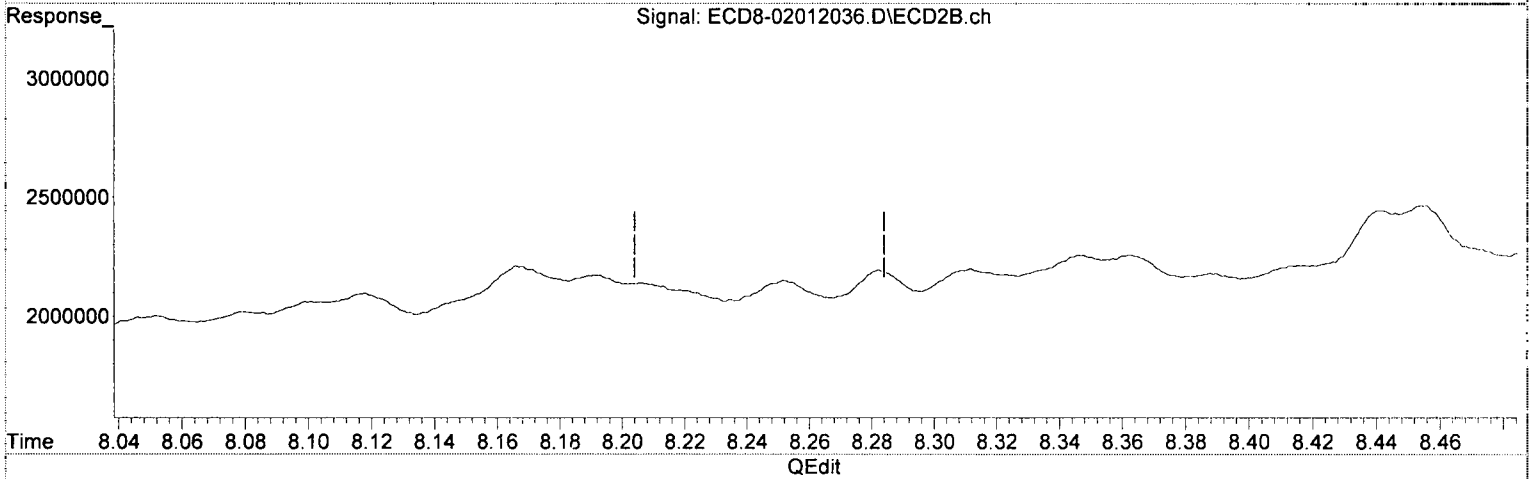
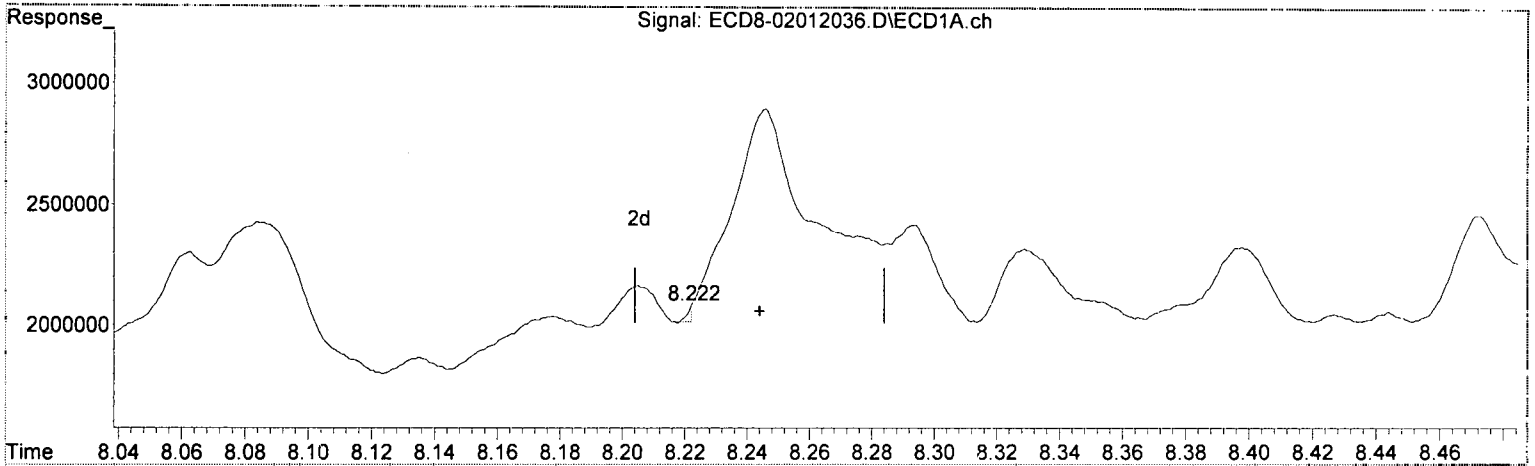
Method Name: C:\msdchem\1\methods\ECD6_QUANTPEST_200108.M

Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



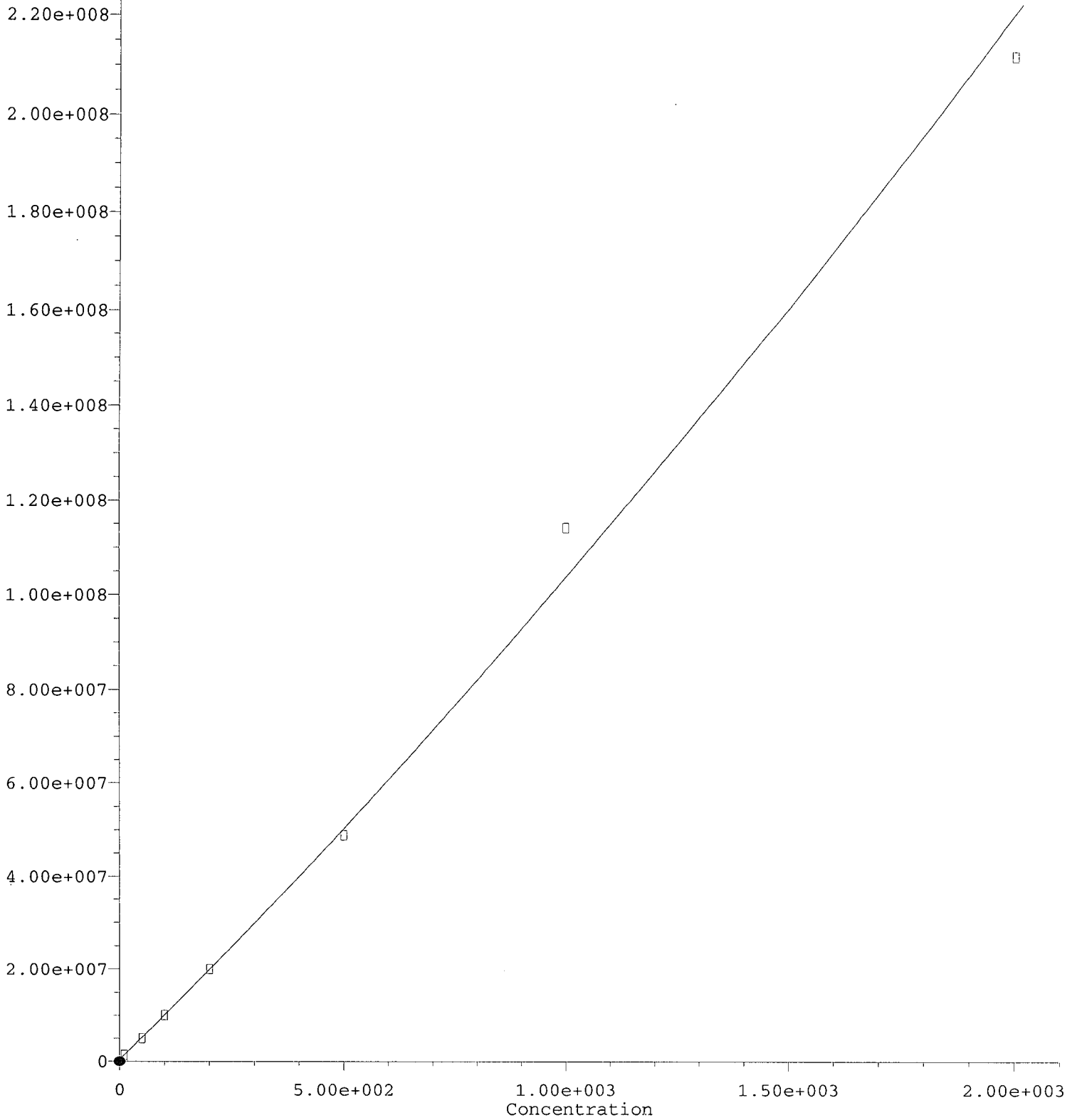
(39) Toxaphene (4)
8.222min -5.887 ng/mL (m)
response 68489

MJB
2/3/20

(39) Toxaphene (4) #2
8.907min 10.079 ng/mL
response 1372328

Toxaphene (4) #2

Response



$R = 7.17e+000 A^2 + 9.62e+004 A + 4.02e+005$

Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)

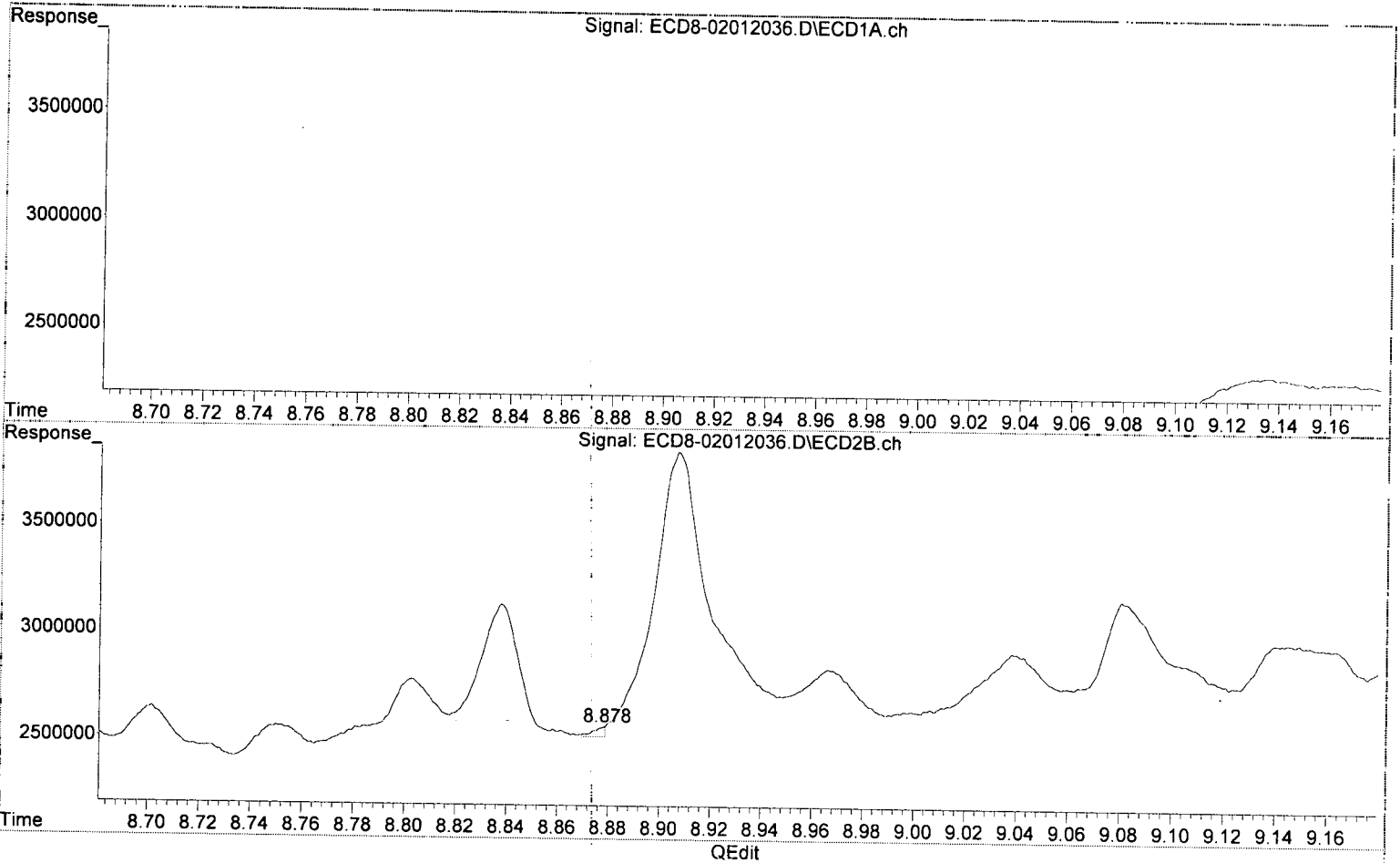
Method Name: C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M

04/07/20 Anchor QEA LLC Gasco Prep DG 2019 4a-b DOC CAP Testing Cores Page 427 of 731
Calibration Table Last Updated: Mon Feb 03 15:44:09 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(39) Toxaphene (4)
8.222min -5.887 ng/mL m
response 68489

*MJB
2/3/20*

(39) Toxaphene (4) #2
8.878min -3.705 ng/mL m
response 46228

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012004.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:09
 Operator : MJB
 Sample : 0B01012-ICB1
 Misc : A20A395
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:08 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

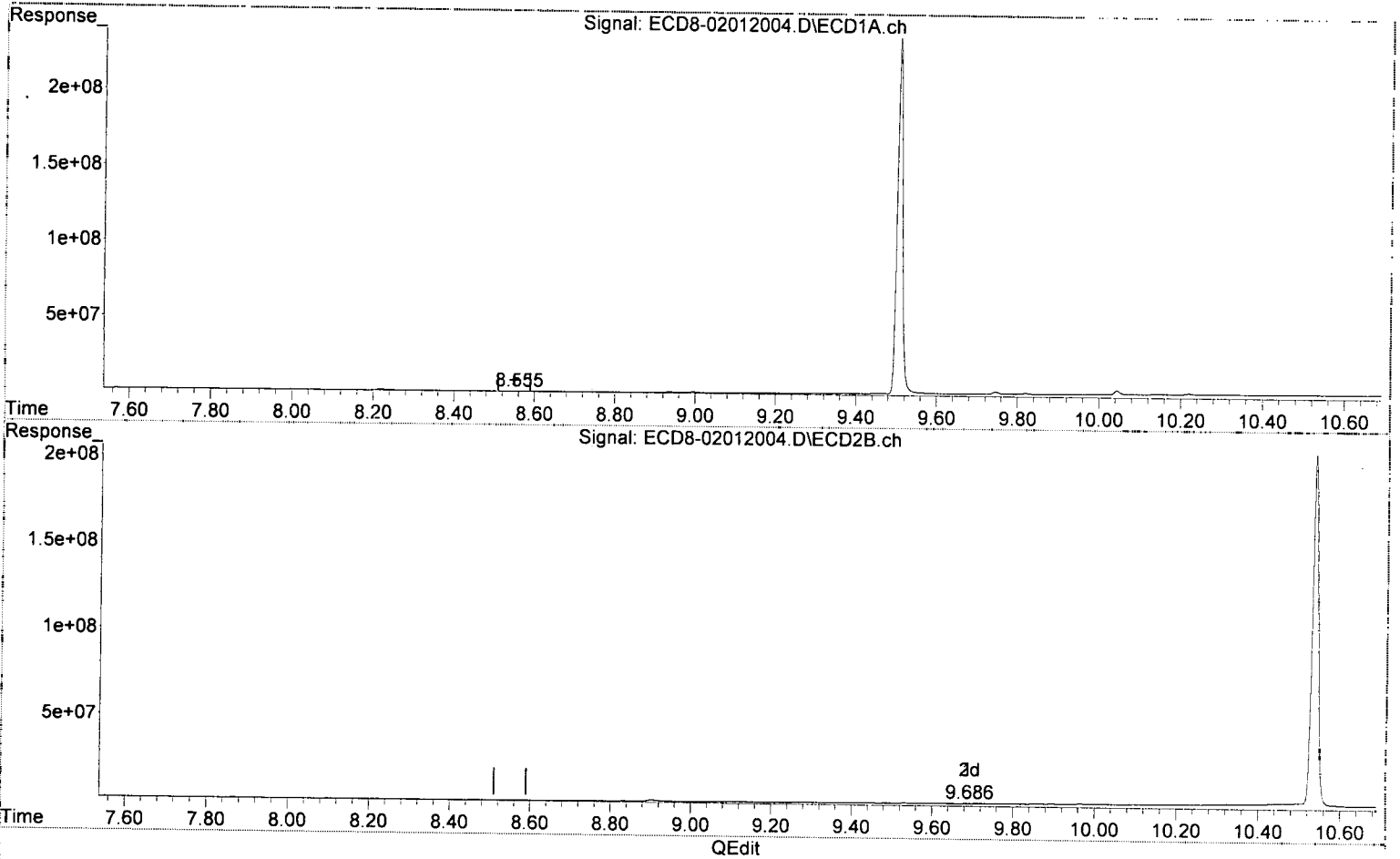
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	318.0E6	341.4E6	90.964	98.960
22) S DCBP (S)	9.506	10.536	236.5E6	202.4E6	88.597	90.949
Target Compounds						
2) a-BHC	5.840	0.000	33920	0	0.007	N.D. #
3) g-BHC	6.132	6.911	55024	6227	0.013	0.044 #
4) b-BHC	6.189	6.951	134250	10158	0.077	0.006 #
5) Heptachlor	0.000	7.277	0	8767	N.D.	0.002 #
6) d-BHC	0.000	7.220	0	43476	N.D.	0.110 #
7) Aldrin	0.000	7.552	0	217045	N.D.	0.070 #
8) Heptachlo...	7.262f	7.976	39204	10712	0.011	0.003 #
9) trans-Chl...	7.312	8.118	154215	50544	0.041	0.014 #
10) cis-Chlor...	7.413	8.216	92336	29538	0.025	0.008 #
11) Endosulfa...	0.000	8.282	0	22810	N.D.	0.007 #
12) 4,4'-DDE	7.470	8.333	62475	34538	0.019	0.099 #
13) Dieldrin	7.668f	8.482	15162	19454	0.004	0.038 #
14) Endrin	7.852	8.711	12432	86283	0.004	0.022 #
15) 4,4'-DDD	7.911	8.751	18026	44442	0.007	0.062 #
16) Endosulfa...	8.004	8.862	229792	68437	0.077	BelowCal #
17) 4,4'-DDT	8.112	8.977	42048	156623	0.016	0.038 #
18) Endrin Al...	8.300	9.087	154413	151440	0.059	0.057 #
19) Endosulfa...	8.605	9.289	68096	203844	0.024	BelowCal #
20) Methoxychlor	8.464	9.452	99388	262606	0.082	BelowCal #
21) Endrin Ke...	8.786	9.687	50943	449438	0.015	BelowCal #
23) Hexachlor...	3.090	3.697	39616	63814	0.010	0.013 #
24) Hexachlor...	5.679	6.447	458732	23069	0.136	BelowCal #
25) Oxychlordane	7.157	7.905	198607	23209	BelowCal	0.007 #
26) 2,4'-DDE	7.262f	8.118	39204	50544	0.017	0.022 #
27) trans-Non...	7.413	8.154f	92336	122733	0.025	0.034 #
28) 2,4'-DDD	7.602	8.482	9119	19454	0.005	0.010 #
29) 2,4'-DDT	7.794	8.711	20671	86283	0.009	BelowCal #
30) cis-Nonac...	7.899	8.751	14317	44442	0.004	0.011 #
31) Mirex	8.556	9.687	179129	449438	0.004 ^{0.001}	BelowCal #
32) Chlordane...	7.312	8.118	154215	50544	0.385	0.116 #
33) Chlordane...	7.413	8.216	92336	29538	0.190	0.081 #
34) Chlordane...	7.957	8.902	16279	732441	0.125	6.168 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D. #
36) Toxaphene...	7.413	8.471	92336	17547	5.641	0.595 #
37) Toxaphene...	7.668f	8.807	15162	39634	0.483	0.986 #
38) Toxaphene...	8.004	8.832	229792	160410	0.105	2.479 #
39) Toxaphene...	8.267f	8.902	188436	732441	BelowCal	3.431 #
40) Toxaphene...	8.474	9.087	94749	151440	1.748	2.642 #
41) Toxaphene...	8.536	9.452	72757	262606	0.957	3.976 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



(31) Mirex

8.556min 8199.055 ng/mL

response 179129

Q Det

MJB
2/3/20

(31) Mirex #2

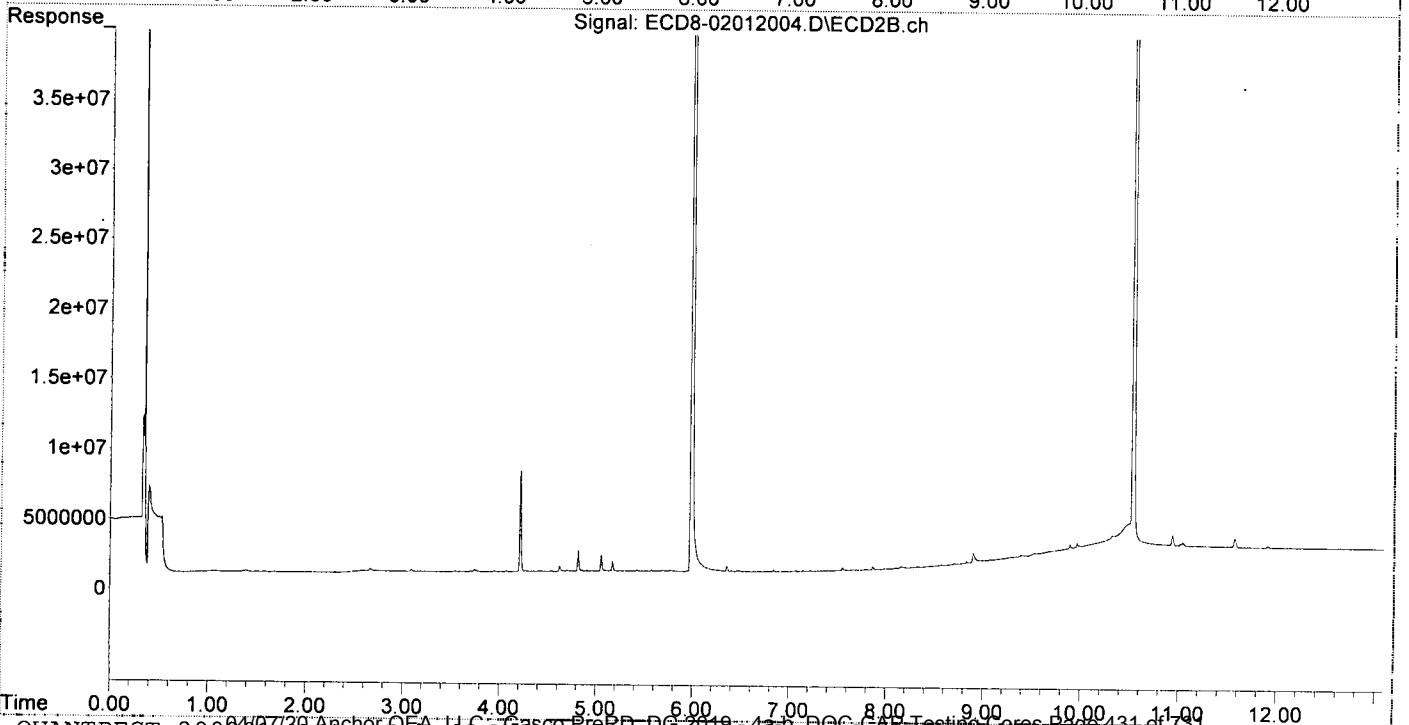
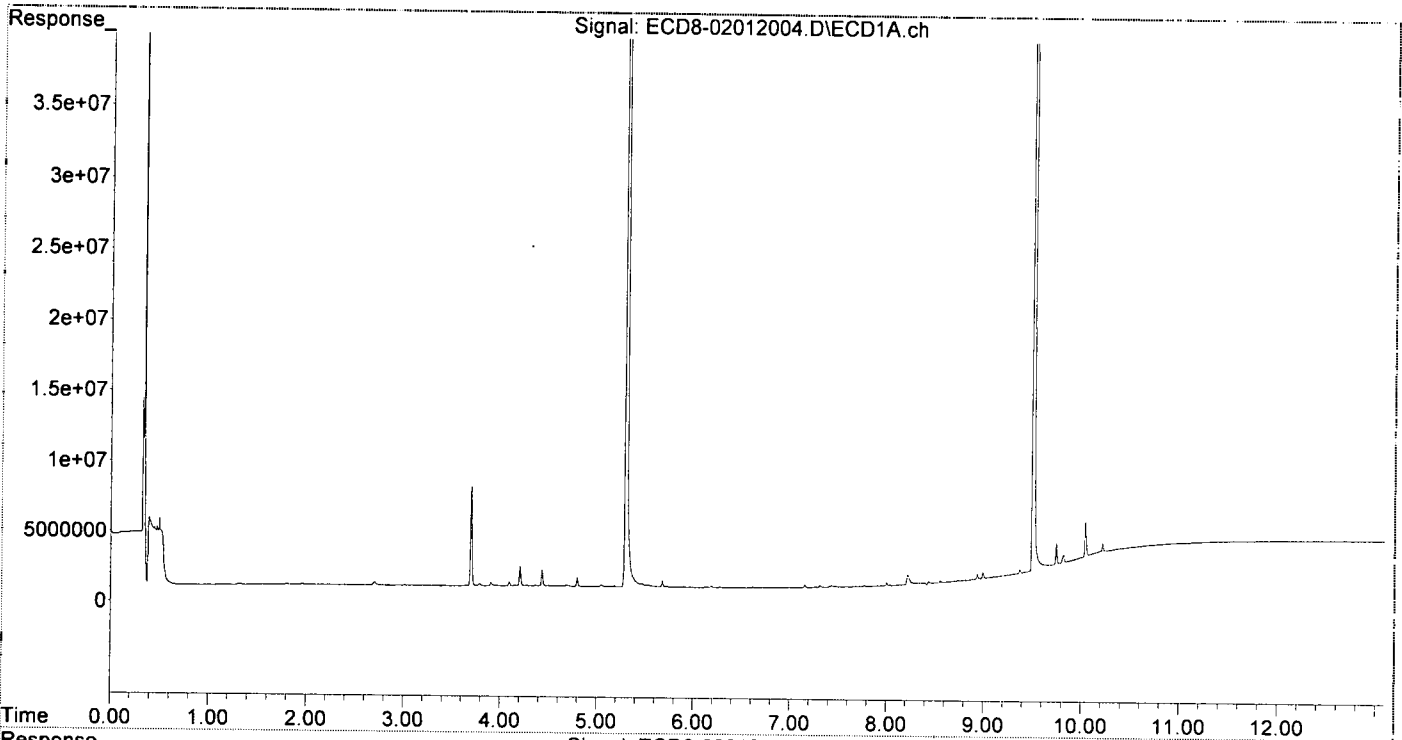
9.687min -0.035 ng/mL

response 449438

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012004.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:09
Operator : MJB
Sample : 0B01012-ICB1
Misc : A20A395
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:08 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012014.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:58
 Operator : MJB
 Sample : 0B01012-IBL1
 Misc : Instrument Blank
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:12 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

clean

*MJB
7/3/20*

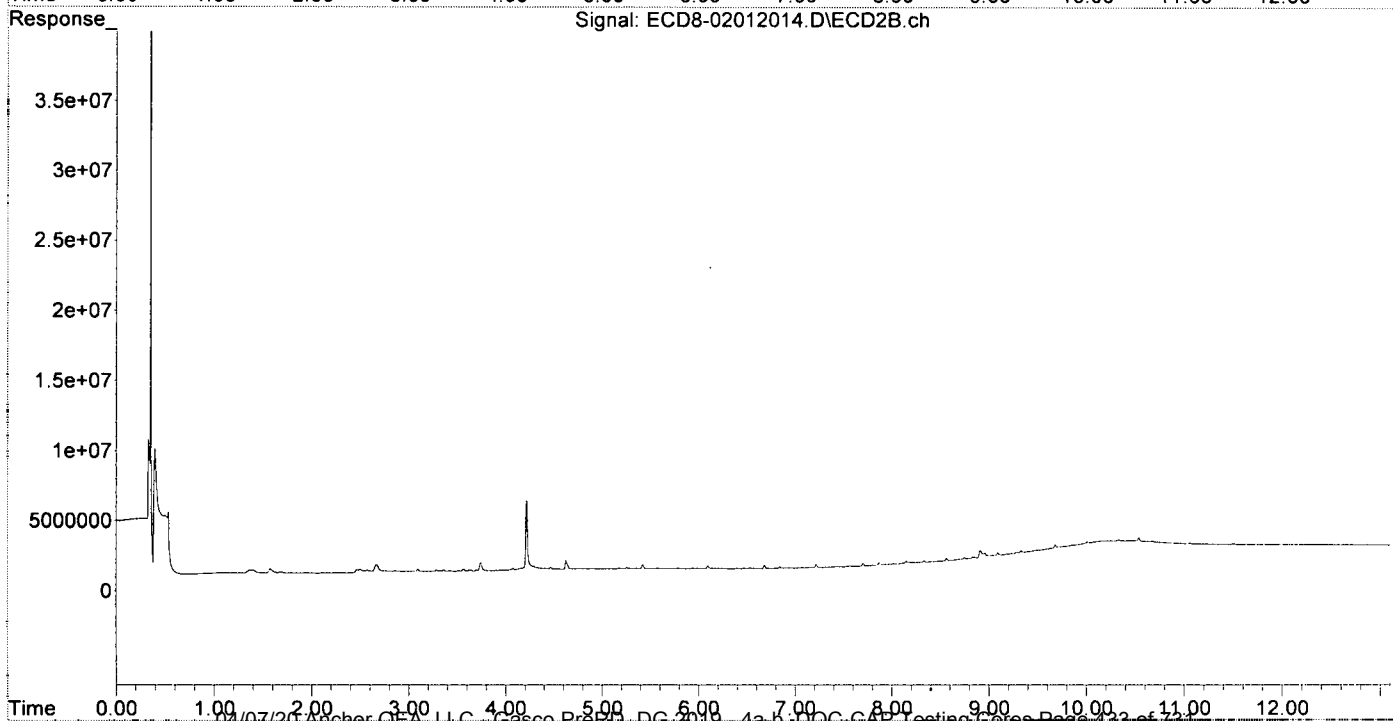
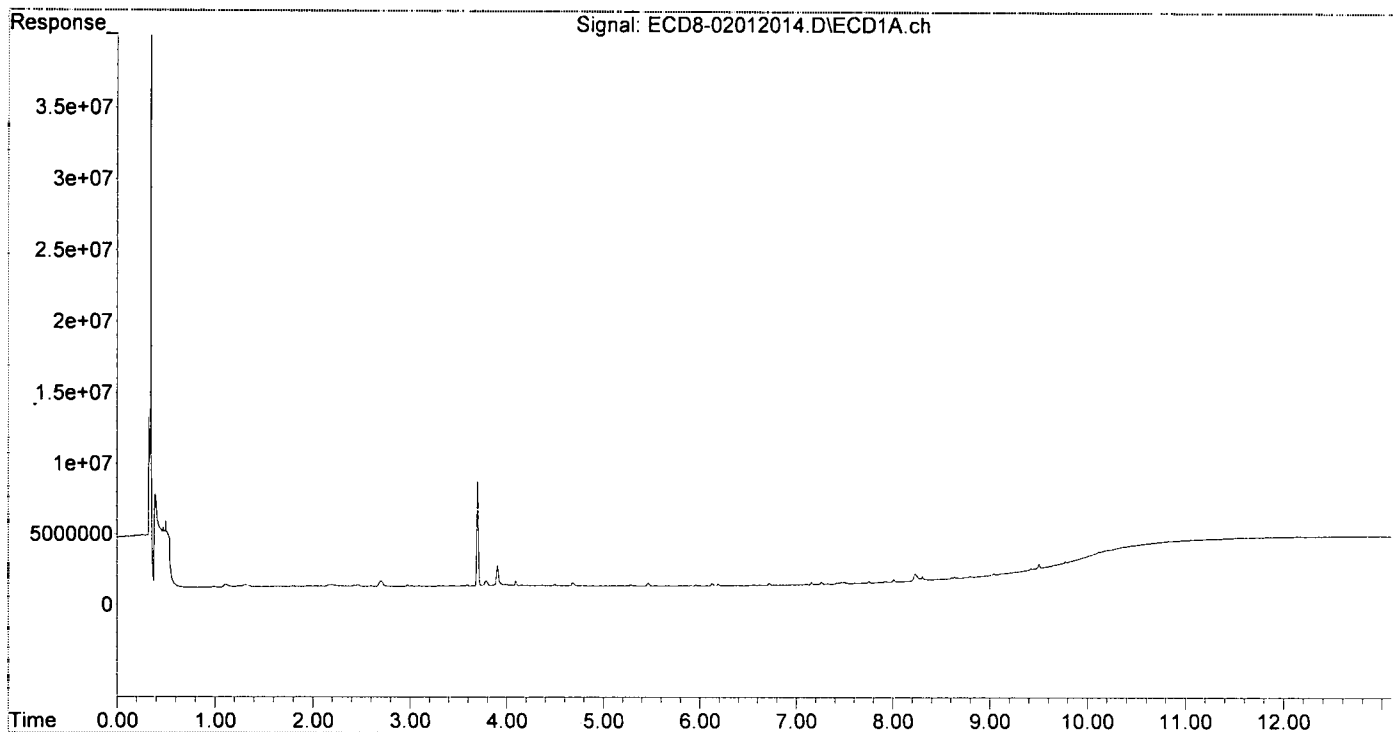
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.282	5.982	95189	41890	0.027	0.012 #
22) S DCBP (S)	9.507	10.537	492471	638877	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.841	6.586	40611	26491	0.009	0.082 #
3) g-BHC	6.125	6.905	169328	10004	0.041	0.045 #
4) b-BHC	6.187	6.971	134965	31544	0.077	0.018 #
5) Heptachlor	6.558f	7.276	59400	16903	0.014	0.004 #
6) d-BHC	6.362	7.219	23778	220481	0.113	0.160 #
7) Aldrin	6.771	7.542	15122	21973	0.004	0.018 #
8) Heptachlo...	7.230	7.979	30323	29133	0.008	0.008 #
9) trans-Chl...	7.327	8.120	42161	68307	0.011	0.018 #
10) cis-Chlor...	7.421	8.225	69327	52479	0.019	0.015 #
11) Endosulfa...	7.515	8.279	72783	42494	0.021	0.013 #
12) 4,4'-DDE	7.495	8.335	156047	124848	0.047	0.128 #
13) Dieldrin	7.692	8.481	40938	40016	0.011	0.044 #
14) Endrin	7.855	8.687	23482	32550	0.007	0.004 #
15) 4,4'-DDD	7.917	8.754	110975	131623	0.044	0.099 #
16) Endosulfa...	8.008	8.853	203315	117522	0.068	0.014 #
17) 4,4'-DDT	8.121	8.959	16693	360032	0.006	0.121 #
18) Endrin Al...	8.305	9.093	313791	318073	0.119	0.120 #
19) Endosulfa...	8.606	9.283	95656	238213	0.033	0.006 #
20) Methoxychlor	8.462	9.474f	24356	271741	0.020	BelowCal #
21) Endrin Ke...	8.798	9.683	102576	562674	0.030	BelowCal #
23) Hexachlor...	3.088	3.698	37161	78542	0.010	0.016 #
24) Hexachlor...	5.647f	6.467	15412	65013	0.005	BelowCal #
25) Oxychlordane	7.157	7.900	204406	27429	BelowCal	0.009 #
26) 2,4'-DDE	7.230	8.120	30323	68307	0.013	0.030 #
27) trans-Non...	7.421	8.148f	69327	187721	0.019	0.052 #
28) 2,4'-DDD	7.606	8.481	38787	40016	0.020	0.021 #
29) 2,4'-DDT	7.810	8.687f	10870	32550	0.005	BelowCal #
30) cis-Nonac...	7.890	8.754	27167	131623	0.007	0.033 #
31) Mirex	8.549	9.683	26934	562674	8199.118	0.020 #
32) Chlordane...	7.327	8.120	42161	68307	0.105	0.157 #
33) Chlordane...	7.421	8.225	69327	52479	0.143	0.144 #
34) Chlordane...	7.982	8.913f	31330	566953	0.241	4.774 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.378f	8.451	8568	24651	0.523	0.836 #
37) Toxaphene...	7.692	8.797	40938	54945	1.303	1.367 #
38) Toxaphene...	8.008	8.834	203315	146142	96751.049	2.259 #
39) Toxaphene...	8.230	8.913	534790	566953	1.302	1.711 #
40) Toxaphene...	8.462	9.093	24356	318073	0.449	5.548 #
41) Toxaphene...	8.549	9.474	26934	271741	0.354	4.114 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012014.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:58
Operator : MJB
Sample : 0B01012-IBL1
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:14
 Operator : MJB
 Sample : 0B01012-ICV1
 Misc : A19I209, AB 50 ppb
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:16 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

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2/3/20*

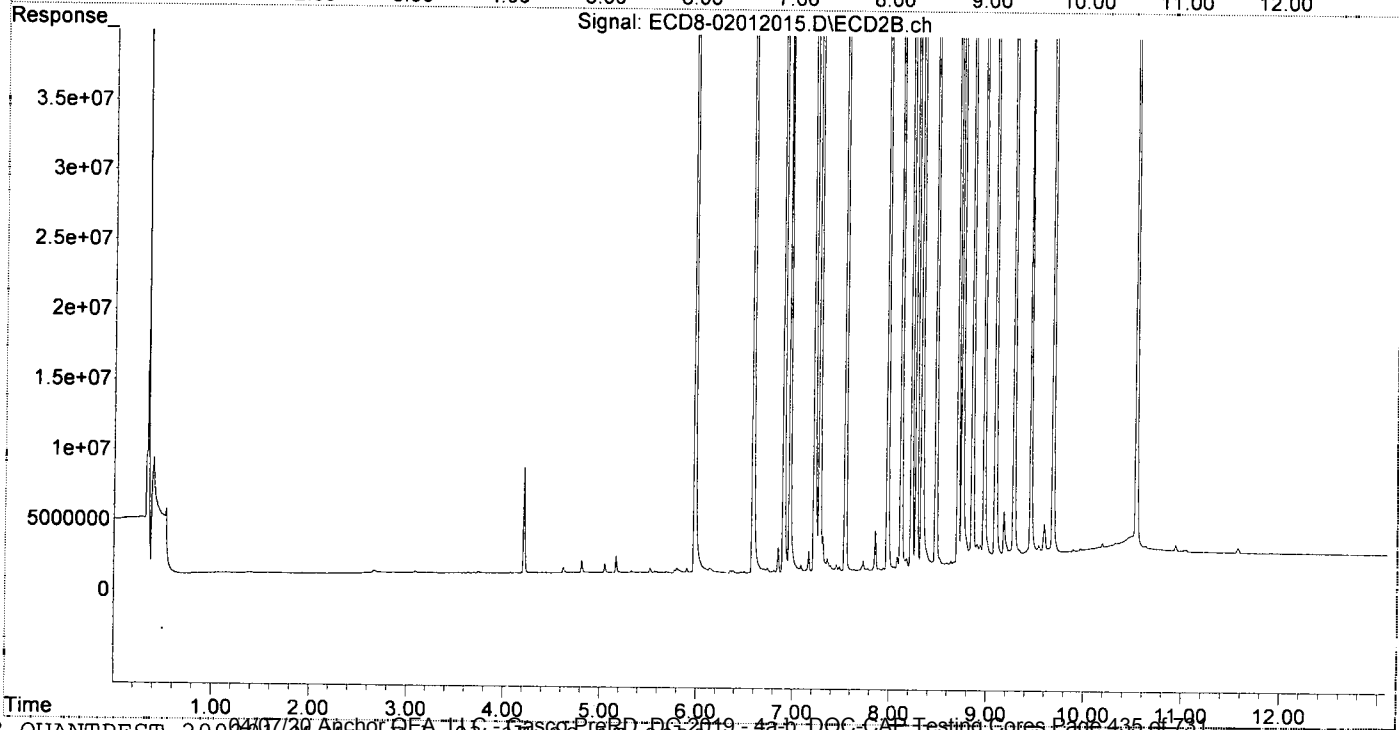
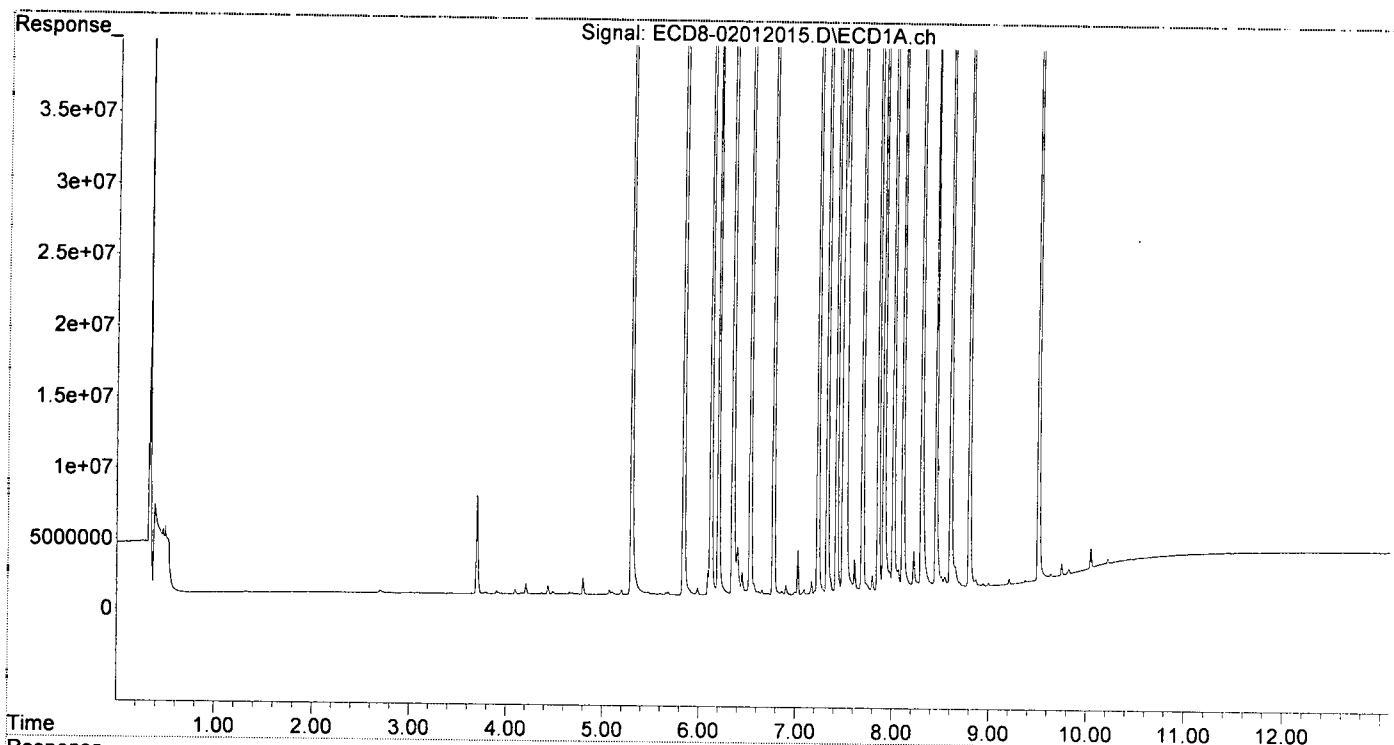
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	161.5E6	170.2E6	46.195	49.336
22) S DCBP (S)	9.507	10.537	121.2E6	103.5E6	46.127	48.299
Target Compounds						
2) a-BHC	5.836	6.585	229.8E6	234.7E6	48.636	50.205
3) g-BHC	6.119	6.902	206.9E6	218.0E6	49.693	51.692
4) b-BHC	6.197	6.965	84698578	85149025	48.631	49.048
5) Heptachlor	6.528	7.275	189.4E6	205.5E6	46.071	48.814
6) d-BHC	6.345	7.220	183.4E6	202.2E6	50.101	52.145
7) Aldrin	6.768	7.542	191.7E6	197.5E6	47.446	49.215
8) Heptachlo...	7.229	7.978	171.2E6	174.6E6	46.371	48.636
9) trans-Chl...	7.325	8.118	179.3E6	186.6E6	47.670	50.173
10) cis-Chlor...	7.422	8.226	168.4E6	171.6E6	45.853	48.724
11) Endosulfa...	7.518	8.277	162.0E6	161.8E6	46.717	48.957
12) 4,4'-DDE	7.489	8.331	165.0E6	164.8E6	49.676	48.331
13) Dieldrin	7.690	8.477	188.0E6	189.8E6	49.305	50.546
14) Endrin	7.853	8.705	164.0E6	155.5E6	50.237	50.079
15) 4,4'-DDD	7.910	8.748	129.6E6	130.8E6	50.915	49.486
16) Endosulfa...	8.011	8.853	149.5E6	151.0E6	49.958	52.295
17) 4,4'-DDT	8.108	8.975	135.9E6	147.2E6	50.543	52.860
18) Endrin Al...	8.301	9.090	136.2E6	139.5E6	51.748	52.770
19) Endosulfa...	8.602	9.281	144.2E6	144.3E6	50.385	52.603
20) Methoxychlor	8.451	9.454	57032855	59892133	47.266	49.852
21) Endrin Ke...	8.796	9.683	164.0E6	157.7E6	47.452	50.956
23) Hexachlor...	3.087	3.682	42461	16308	0.011	0.003 #
24) Hexachlor...	5.679	6.463	256563	76800	0.076	BelowCal #
25) Oxychlorane	7.166	7.887	908282	117801	0.116	0.037 #
26) 2,4'-DDE	7.229	8.118	171.2E6	186.6E6	74.063	82.078
27) trans-Non...	7.422	8.176	168.4E6	774108	45.929	0.214 #
28) 2,4'-DDD	7.610	8.477	2312332	189.8E6	1.194	99.161 #
29) 2,4'-DDT	7.794	8.705	1125090	155.5E6	0.470	64.983 #
30) cis-Nonac...	7.910f	8.748	129.6E6	130.8E6	31.842	32.820
31) Mirex	8.543	9.683	761345	157.7E6	0.108	73.098 #
32) Chlordane...	7.325	8.118	179.3E6	186.6E6	447.623	429.399
33) Chlordane...	7.422	8.226	168.4E6	171.6E6	346.239	472.112 #
34) Chlordane...	7.972	8.902	1387735	1671965	10.659	14.079 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.422f	8.477f	168.4E6	189.8E6	10286.590	6441.428 #
37) Toxaphene...	7.690	0.000	188.0E6	0	5984.930	N.D. #
38) Toxaphene...	8.011	8.853	149.5E6	151.0E6	2168.521	2334.476
39) Toxaphene...	8.222f	8.902	2723388	1671965	35.032	13.190 #
40) Toxaphene...	8.451	9.090	57032855	139.5E6	1052.221	2433.482 #
41) Toxaphene...	8.543	9.454	761345	59892133	10.011	906.717 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012015.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:14
Operator : MJB
Sample : 0B01012-ICV1
Misc : A19I209, AB 50 ppb
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:16 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012025.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:03
 Operator : MJB
 Sample : 0B01012-IBL2
 Misc : Instrument Blank
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:20 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

Clean

*MJB
2/3/20*

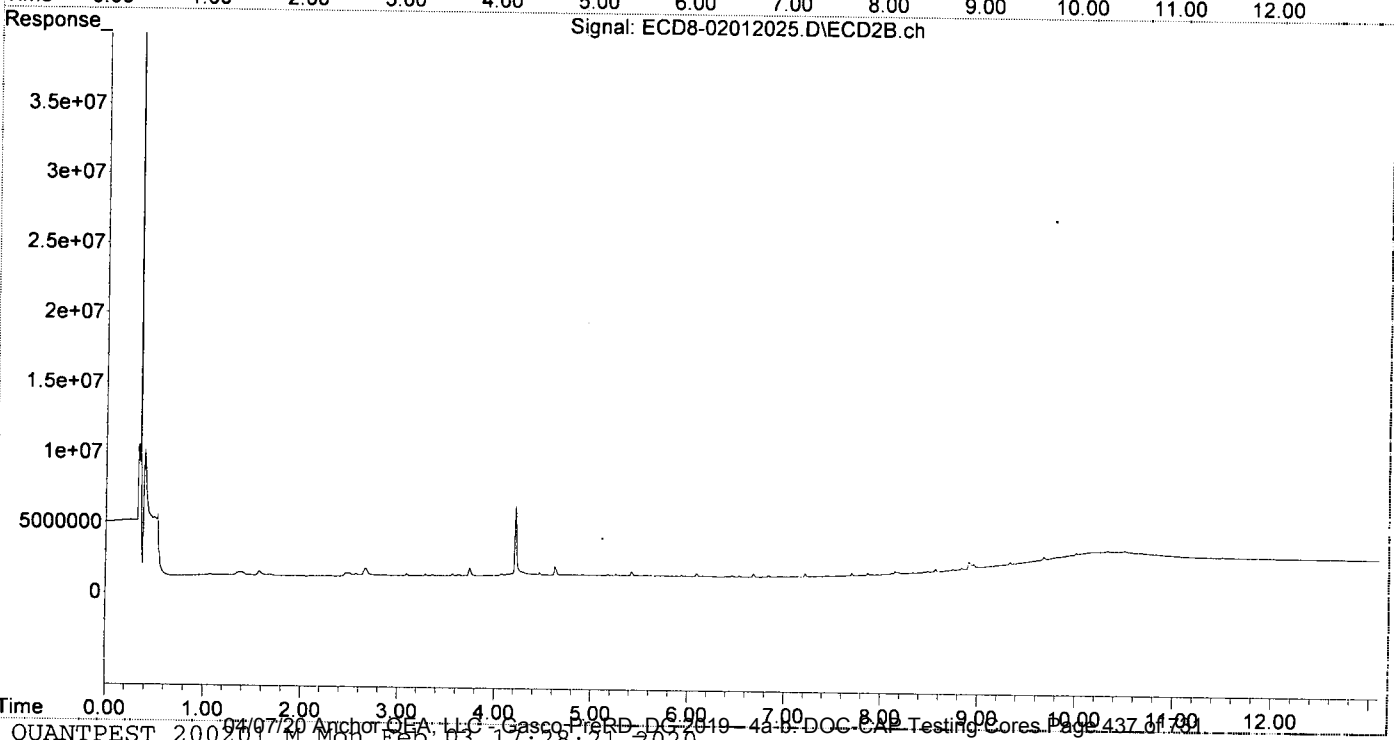
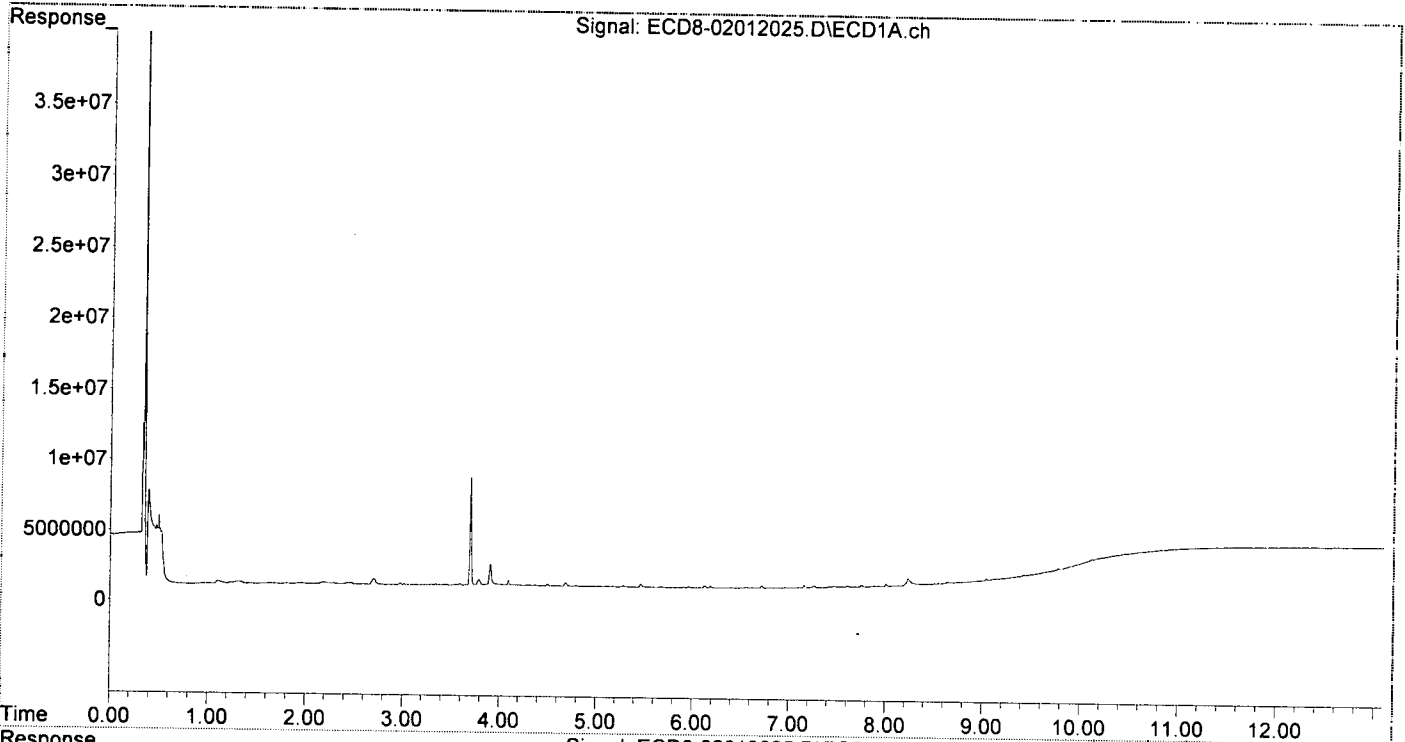
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.283	5.983	94989	23258	0.027	0.007 #
22) S DCBP (S)	9.514	10.527	177944	664094	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.844	6.576	30623	16777	0.006	0.080 #
3) g-BHC	6.127	6.894	153765	9160	0.037	0.044 #
4) b-BHC	6.188	6.967	128047	20253	0.074	0.012 #
5) Heptachlor	6.524	7.278	11922	6428	0.003	0.002 #
6) d-BHC	6.367f	7.218	11022	220592	0.110	0.161 #
7) Aldrin	0.000	7.537	0	9312	N.D.	0.015 #
8) Heptachlo...	7.210f	7.984	16052	13063	0.004	0.004 #
9) trans-Chl...	0.000	8.116	0	77139	N.D.	0.021 #
10) cis-Chlor...	7.414	8.224	80061	31717	0.022	0.009 #
11) Endosulfa...	7.553f	8.275	23890	16141	0.007	0.005 #
12) 4,4'-DDE	7.466f	8.332	82438	33244	0.025	0.099 #
13) Dieldrin	7.691	8.486	6060	76038	0.002	0.054 #
14) Endrin	7.853	8.713	11218	48797	0.003	0.009 #
15) 4,4'-DDD	7.885f	8.748	59493	109850	0.023	0.090 #
16) Endosulfa...	8.007	8.870	182279	87567	0.061	0.003 #
17) 4,4'-DDT	8.070f	8.986	31904	192313	0.012	0.053 #
18) Endrin Al...	0.000	9.095	0	186028	N.D.	0.070 #
19) Endosulfa...	8.606	9.282	15476	246717	0.005	0.010 #
20) Methoxychlor	0.000	9.452	0	315059	N.D.	BelowCal
21) Endrin Ke...	8.799	9.679	25364	645286	0.007	0.006 #
23) Hexachlor...	3.092	3.698	39190	80389	0.010	0.017 #
24) Hexachlor...	5.682	6.450	54914	66418	0.016	BelowCal #
25) Oxychlordane	7.157	7.904	214870	44528	BelowCal	0.014 #
26) 2,4'-DDE	7.260f	8.116	160074	77139	0.069	0.034 #
27) trans-Non...	7.414	8.181	80061	109331	0.022	0.030 #
28) 2,4'-DDD	7.611	8.486	83589	76038	0.043	0.040 #
29) 2,4'-DDT	7.802	8.713	12656	48797	0.005	BelowCal #
30) cis-Nonac...	7.885	8.748	59493	109850	0.015	0.028 #
31) Mirex	8.551	9.679	49750	645286	8199.108	0.059 #
32) Chlordane...	0.000	8.116	0	77139	N.D.	0.178 #
33) Chlordane...	7.414	8.224	80061	31717	0.165	0.087 #
34) Chlordane...	7.937f	8.870	16054	87567	0.123	0.737 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.414	8.448	80061	43789	4.891	1.486 #
37) Toxaphene...	7.691	8.800	6060	67393	0.193	1.677 #
38) Toxaphene...	8.007	8.833	182279	173531	96751.347	2.682 #
39) Toxaphene...	8.233	8.912	497865	586942	0.733	1.919 #
40) Toxaphene...	8.506f	9.095	24411	186028	0.450	3.245 #
41) Toxaphene...	8.551	9.471	49750	332364	0.654	5.032 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012025.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:03
Operator : MJB
Sample : 0B01012-IBL2
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012026.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:19
 Operator : MJB
 Sample : 0B01012-ICV2
 Misc : A19J410, 9-42 50 ppb
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:24 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

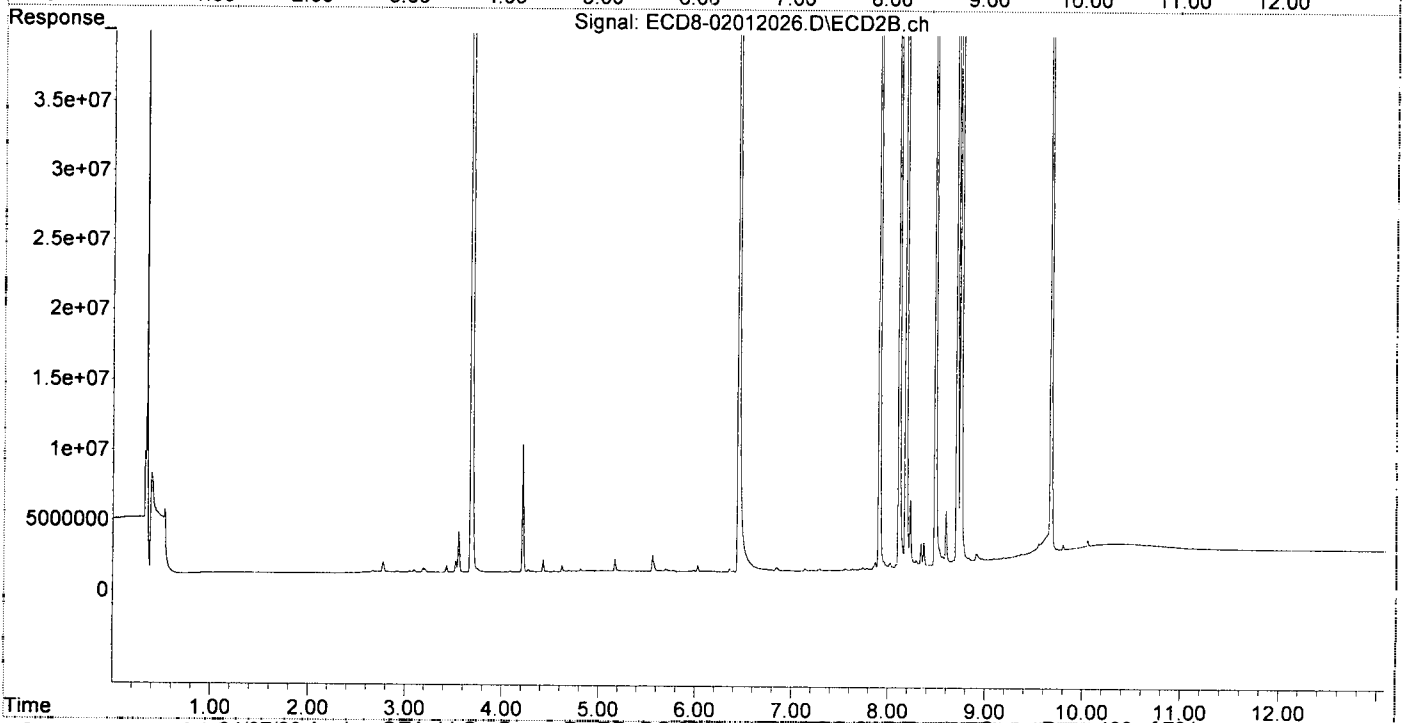
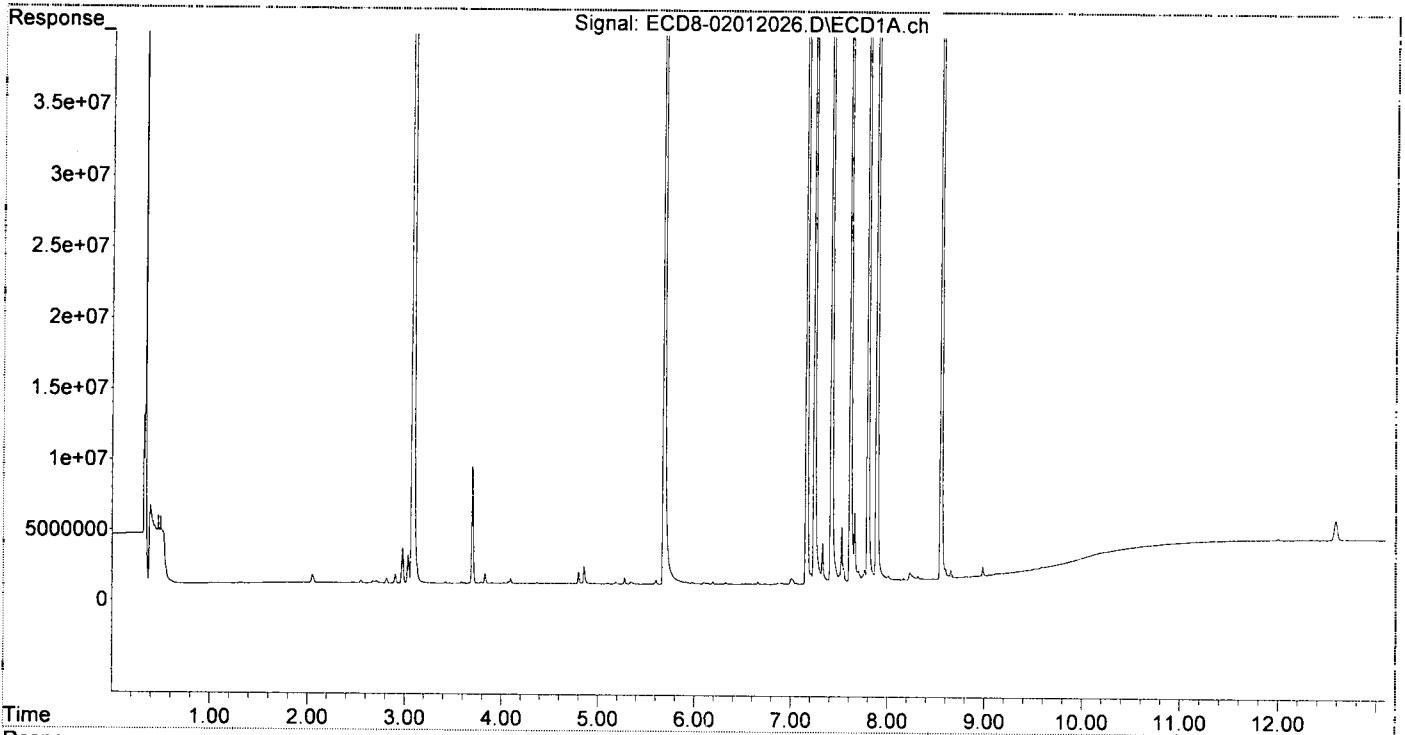
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.273f	5.985	462494	95930	0.132	0.028 #
22) S DCBP (S)	0.000	10.541	0	281717	N.D.	BelowCal
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.093f	6.930f	137773	44680	0.033	0.054 #
4) b-BHC	6.188	6.975	203773	41755	0.117	0.024 #
5) Heptachlor	6.530	7.276	90458	83748	0.022	0.020
6) d-BHC	6.350	7.226	35723	59805	0.117	0.115
7) Aldrin	6.732f	7.556	44684	118735	0.011	0.044 #
8) Heptachlo...	7.239	0.000	117.6E6	0	31.851	N.D. #
9) trans-Chl...	7.325	8.110	2935963	120.8E6	0.781	32.490 #
10) cis-Chlor...	7.415	8.226	187.6E6	4787498	51.073	1.359 #
11) Endosulfa...	7.523	8.289	3930470	430643	1.133	0.130 #
12) 4,4'-DDE	7.523f	8.338	3930470	1591170	1.184	0.599 #
13) Dieldrin	7.696	8.483	785221	103.4E6	0.206	28.389 #
14) Endrin	7.885f	8.708	202.7E6	122.2E6	62.116	39.945 #
15) 4,4'-DDD	7.885f	8.748	202.7E6	209.6E6	79.656	74.760
16) Endosulfa...	8.007	8.831f	381343	324984	0.127	0.093 #
17) 4,4'-DDT	8.111	8.972	100313	174772	0.037	0.046
18) Endrin Al...	8.313	9.096	238470	106888	0.091	0.040 #
19) Endosulfa...	8.594	9.287	696896	132261	0.243	BelowCal #
20) Methoxychlor	8.430f	0.000	7483	0	0.006	N.D. #
21) Endrin Ke...	8.799	9.674	40383	110.0E6	0.012	36.376 #
23) Hexachlor...	3.081	3.681	192.4E6	251.3E6	49.353	51.898 #
24) Hexachlor...	5.679	6.448	169.5E6	170.1E6	50.413	54.016 #
25) Oxychlordane	7.158	7.907	165.5E6	166.6E6	53.310	52.105 #
26) 2,4'-DDE	7.239	8.110	117.6E6	120.8E6	50.871	53.151 #
27) trans-Non...	7.415	8.181	187.6E6	195.5E6	51.157	54.156 #
28) 2,4'-DDD	7.611	8.483	96774391	103.4E6	49.966	53.993 #
29) 2,4'-DDT	7.793	8.708	119.4E6	122.2E6	49.908	52.169 #
30) cis-Nonac...	7.885	8.748	202.7E6	209.6E6	49.816	52.585 #
31) Mirex	8.550	9.674	122.9E6	110.0E6	50.851	51.488 #
32) Chlordane...	7.325	8.110	2935963	120.8E6	7.331	278.063 #
33) Chlordane...	7.415	8.226	187.6E6	4787498	385.650	13.169 #
34) Chlordane...	0.000	8.910f	0	567608	N.D.	4.780 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.415	8.483f	187.6E6	103.4E6	11457.489	3507.324 #
37) Toxaphene...	7.696	8.831f	785221	324984	24.995	8.086 #
38) Toxaphene...	8.007	8.831	381343	324984	2.257	5.023 #
39) Toxaphene...	8.231	8.910	516481	567608	1.020	1.718 #
40) Toxaphene...	0.000	9.096	0	106888	N.D.	1.864 #
41) Toxaphene...	8.550	0.000	122.9E6	0	1615.893	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:19
Operator : MJB
Sample : 0B01012-ICV2
Misc : A19J410, 9-42 50 ppb
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:24 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012034.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 23:34
 Operator : MJB
 Sample : 0B01012-IBL3
 Misc : Instrument Blank
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:28 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

Clean
MJB
4/4/20

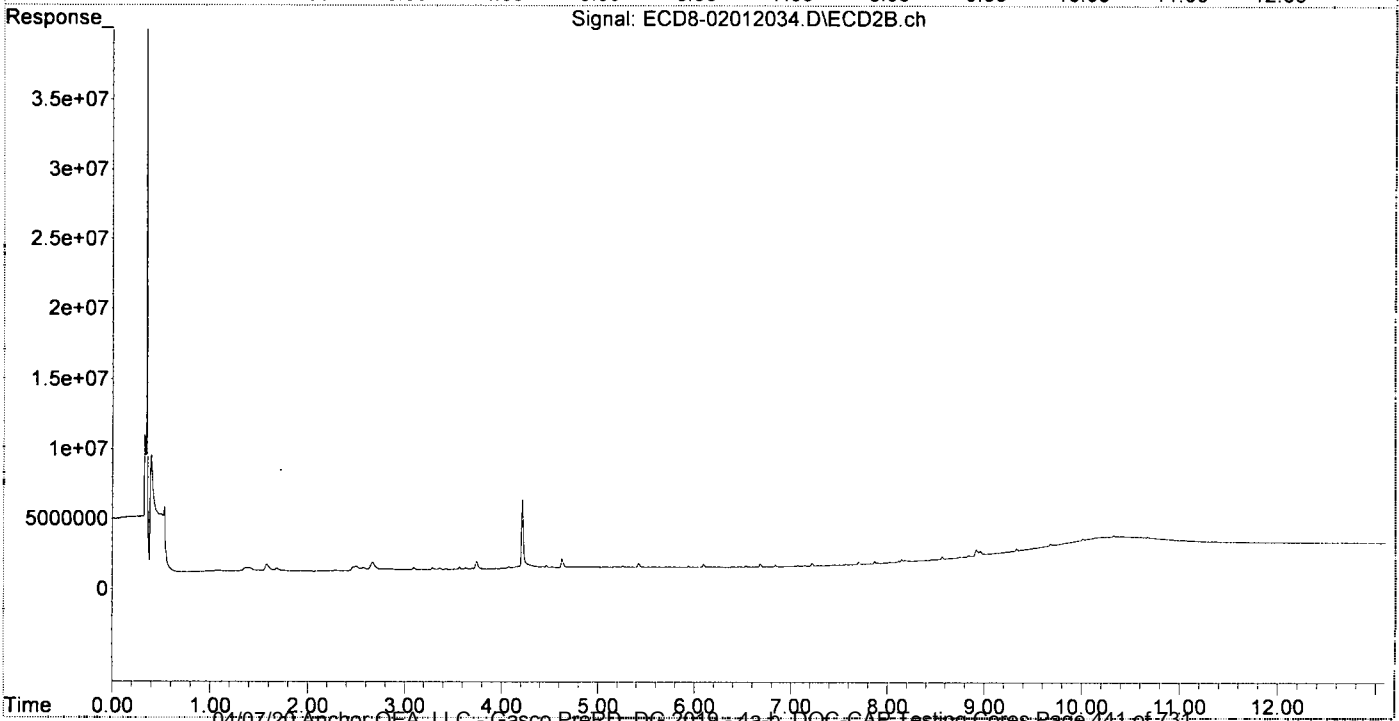
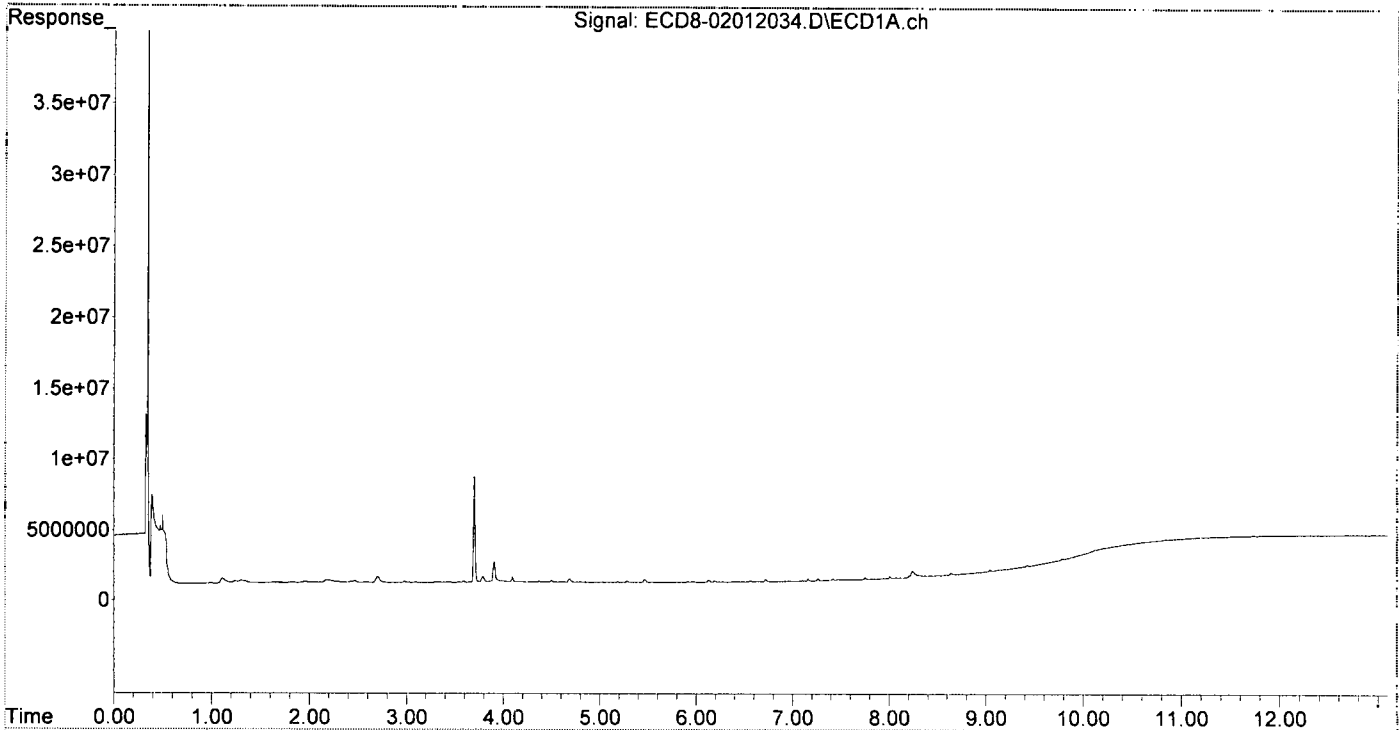
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.284	5.981	98733	19607	0.028	0.006 #
22) S DCBP (S)	9.501	10.541	43622	892875	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.843	6.582	32066	15598	0.007	0.079 #
3) g-BHC	6.127	6.895	147613	9454	0.035	0.045 #
4) b-BHC	6.189	6.970	119234	17521	0.068	0.010 #
5) Heptachlor	6.527	7.275	14667	10777	0.004	0.003 #
6) d-BHC	6.367f	7.217	10408	217359	0.110	0.160 #
7) Aldrin	0.000	7.544	0	8142	N.D.	0.014 #
8) Heptachlo...	7.236	7.986	5046	6578	0.001	0.002 #
9) trans-Chl...	7.326	8.119	53333	91075	0.014	0.024 #
10) cis-Chlor...	7.419	8.225	105017	86465	0.029	0.025
11) Endosulfa...	7.525	8.288	26172	22868	0.008	0.007
12) 4,4'-DDE	7.495	8.336	49124	41336	0.015	0.101 #
13) Dieldrin	7.698	8.484	7070	39354	0.002	0.043 #
14) Endrin	7.859	8.703	12270	79900	0.004	0.020 #
15) 4,4'-DDD	7.888f	8.743	18486	115044	0.007	0.092 #
16) Endosulfa...	8.008	8.863	170981	141352	0.057	0.023 #
17) 4,4'-DDT	8.144f	8.958	8826	502369	0.003	0.179 #
18) Endrin Al...	8.324f	9.088	70572	255337	0.027	0.097 #
19) Endosulfa...	8.612	9.258f	11851	310903	0.004	0.035 #
20) Methoxychlor	0.000	9.444	0	419254	N.D.	0.021 #
21) Endrin Ke...	8.801	9.683	24694	755300	0.007	0.045 #
23) Hexachlor...	3.089	3.699	46593	89255	0.012	0.018 #
24) Hexachlor...	5.681	6.447	17569	20176	0.005	BelowCal #
25) Oxychlordane	7.158	7.898	191148	33286	BelowCal	0.010
26) 2,4'-DDE	7.236	8.119	5046	91075	0.002	0.040 #
27) trans-Non...	7.419	8.179	105017	116839	0.029	0.032
28) 2,4'-DDD	7.606	8.484	44103	39354	0.023	0.021
29) 2,4'-DDT	7.797	8.703	7157	79900	0.003	BelowCal #
30) cis-Nonac...	7.888	8.743	18486	115044	0.005	0.029 #
31) Mirex	8.552	9.683	10661	755300	8199.124	0.113 #
32) Chlordane...	7.326	8.119	53333	91075	0.133	0.210 #
33) Chlordane...	7.419	8.225	105017	86465	0.216	0.238
34) Chlordane...	7.968	8.871	17623	139736	0.135	1.177 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.419	8.449	105017	55813	6.415	1.894 #
37) Toxaphene...	7.698	8.803	7070	116894	0.225	2.909 #
38) Toxaphene...	8.008	8.835	170981	214719	96751.508	3.319 #
39) Toxaphene...	8.238	8.917	436383	588264	BelowCal	1.932
40) Toxaphene...	8.509f	9.088	27476	255337	0.507	4.454 #
41) Toxaphene...	8.552	9.469	10661	443021	0.140	6.707 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:34
Operator : MJB
Sample : 0B01012-IBL3
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012035.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 23:51
 Operator : MJB
 Sample : 0B01012-ICV3
 Misc : A19K312, CHLOR 500 ppb
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:32 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.983	102103	114036	0.029	0.033
22) S DCBP (S)	9.509	10.549	442158	682174	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.825	6.611f	85836	3734765	0.018	0.949 #
3) g-BHC	6.136	6.910	181902	1927747	0.044	0.536 #
4) b-BHC	6.221f	6.976	2518888	174115	1.446	0.100 #
5) Heptachlor	6.528	7.274	92158802	97916408	22.423	23.254
6) d-BHC	6.339	7.208	718608	505684	0.314	0.242
7) Aldrin	6.770	7.547	1187019	921583	0.294	0.258
8) Heptachlo...	7.238	7.996	14634580	4901611	3.963	1.365 #
9) trans-Chl...	7.325	8.117	201.2E6	226.8E6	53.492	60.988
10) cis-Chlor...	7.419	8.224	236.0E6	186.7E6	64.272	52.989
11) Endosulfa...	7.517	8.297	2057409	3309611	0.593	1.001 #
12) 4,4'-DDE	7.497	8.319	3275087	4515911	0.986	1.535 #
13) Dieldrin	7.704	8.477	6365894	20372847	1.669	5.804 #
14) Endrin	7.843	8.722	3743006	2426447	1.147	0.836 #
15) 4,4'-DDD	7.884f	8.747	34316093	33227371	13.484	13.772
16) Endosulfa...	8.018	8.863	4068702	3863150	1.360	1.432
17) 4,4'-DDT	8.086f	8.984	1132289	1512448	0.421	0.591 #
18) Endrin Al...	8.326f	9.059f	1343763	1268334	0.510	0.480
19) Endosulfa...	8.608	9.284	2627202	373379	0.918	0.060 #
20) Methoxychlor	8.452	9.457	1412232	518826	1.170	0.116 #
21) Endrin Ke...	8.793	9.681	404117	2170568	0.117	0.547 #
23) Hexachlor...	3.089	3.682	49383	24358	0.013	0.005 #
24) Hexachlor...	5.655f	6.463	318404	79911	0.095	BelowCal #
25) Oxychlorane	7.152	7.920	1885219	2613453	0.434	0.817 #
26) 2,4'-DDE	7.238	8.117	14634580	226.8E6	6.330	99.769 #
27) trans-Non...	7.419	8.180	236.0E6	172.1E6	64.379	47.667 #
28) 2,4'-DDD	7.642f	8.477	25008246	20372847	12.912	10.643
29) 2,4'-DDT	7.812	8.722	5408636	2426447	2.260	1.089 #
30) cis-Nonac...	7.884	8.747	34316093	33227371	8.433	8.338
31) Mirex	8.545	9.681	466067	2170568	8198.936	0.796 #
32) Chlordane...	7.325	8.117	201.2E6	226.8E6	502.297	521.954 #
33) Chlordane...	7.419	8.224	236.0E6	186.7E6	485.318	513.436 #
34) Chlordane...	7.966	8.888	63830007	57949683	490.255	487.975 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.390	8.477f	28796553	20372847	1759.169	691.332 #
37) Toxaphene...	7.704	8.803	6365894	5219875	202.636	129.883 #
38) Toxaphene...	7.997	8.839	2979211	5324116	39.178	82.294 #
39) Toxaphene...	8.245	8.888	2823883	57949683	36.580	573.914 #
40) Toxaphene...	8.452	9.059f	1412232	1268334	26.055	22.124
41) Toxaphene...	8.545	9.457	466067	518826	6.128	7.855 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

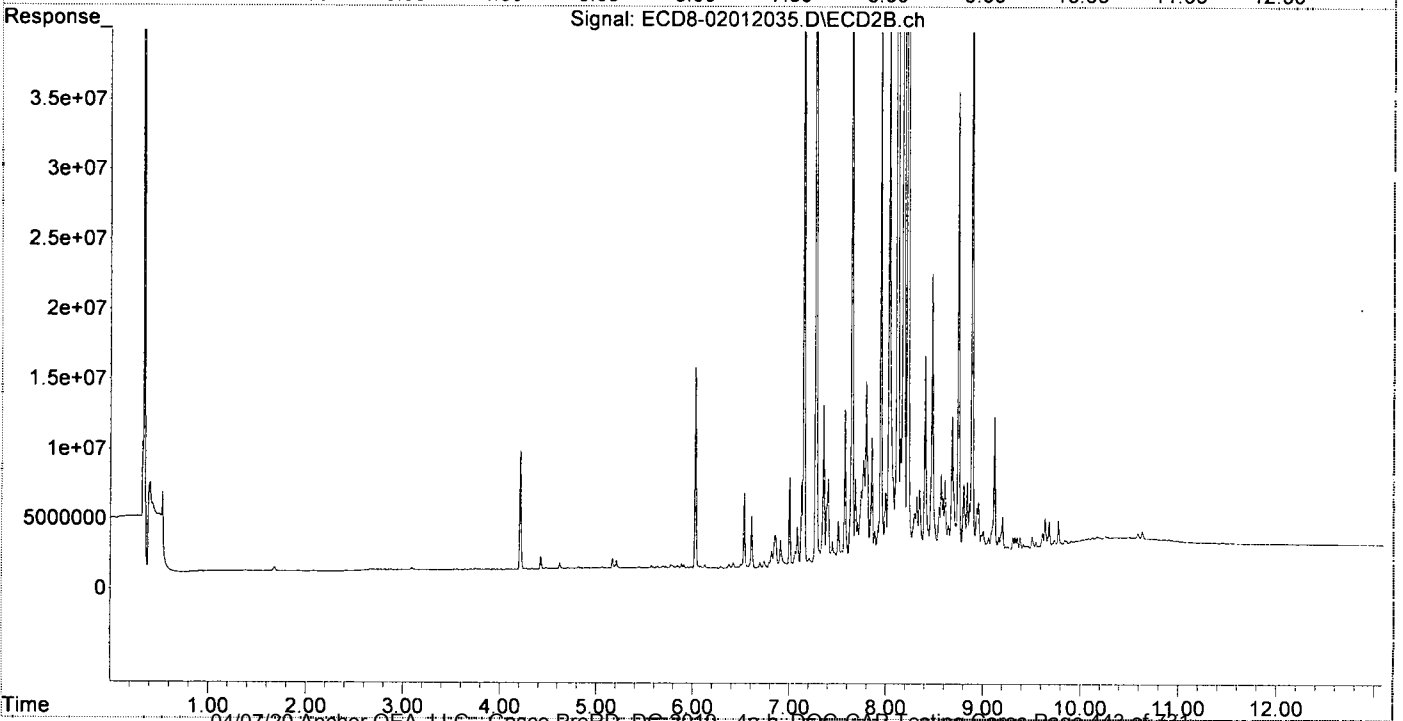
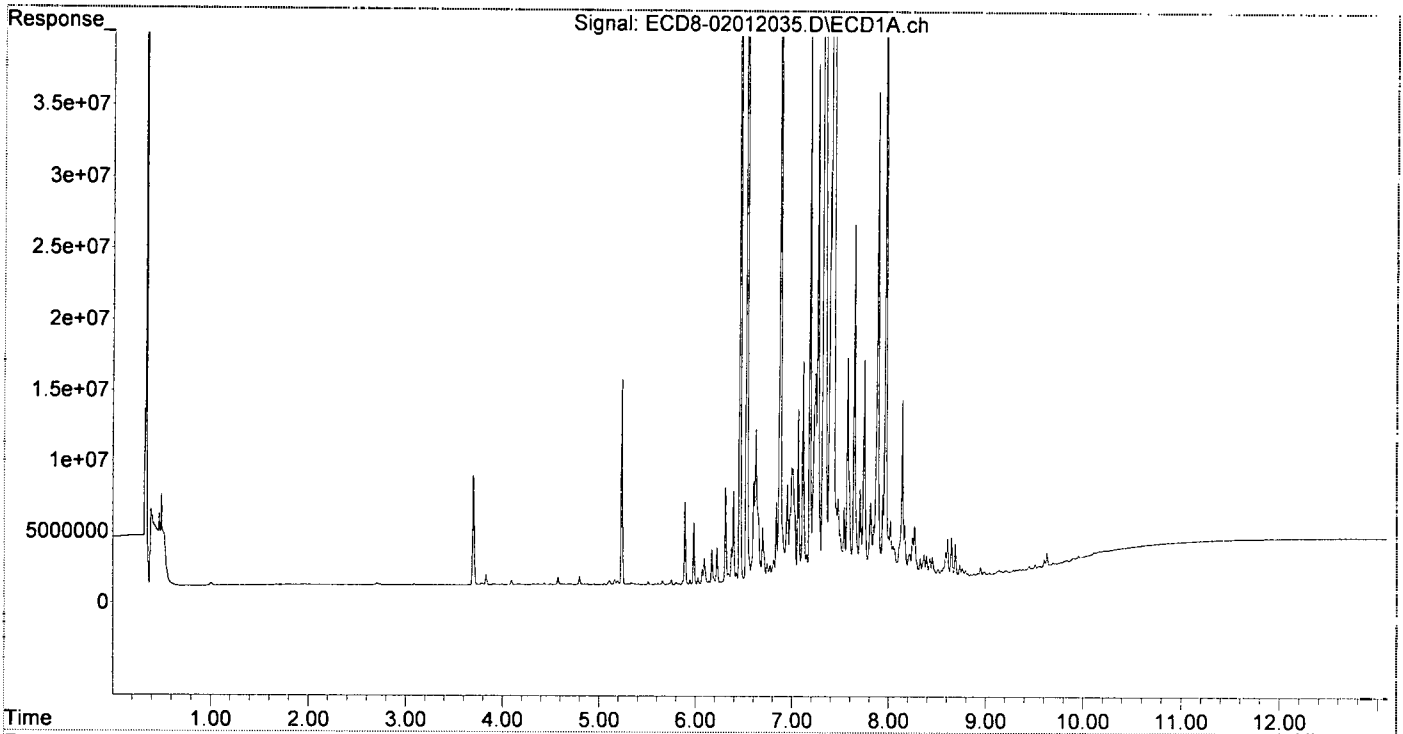
A
B
492.62
507.79

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:51
Operator : MJB
Sample : 0B01012-ICV3
Misc : A19K312, CHLOR 500 ppb
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012043.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 2:05
 Operator : MJB
 Sample : 0B01012-IBL4
 Misc : Instrument Blank
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:36 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

Clean
 MJB
 2/3/20

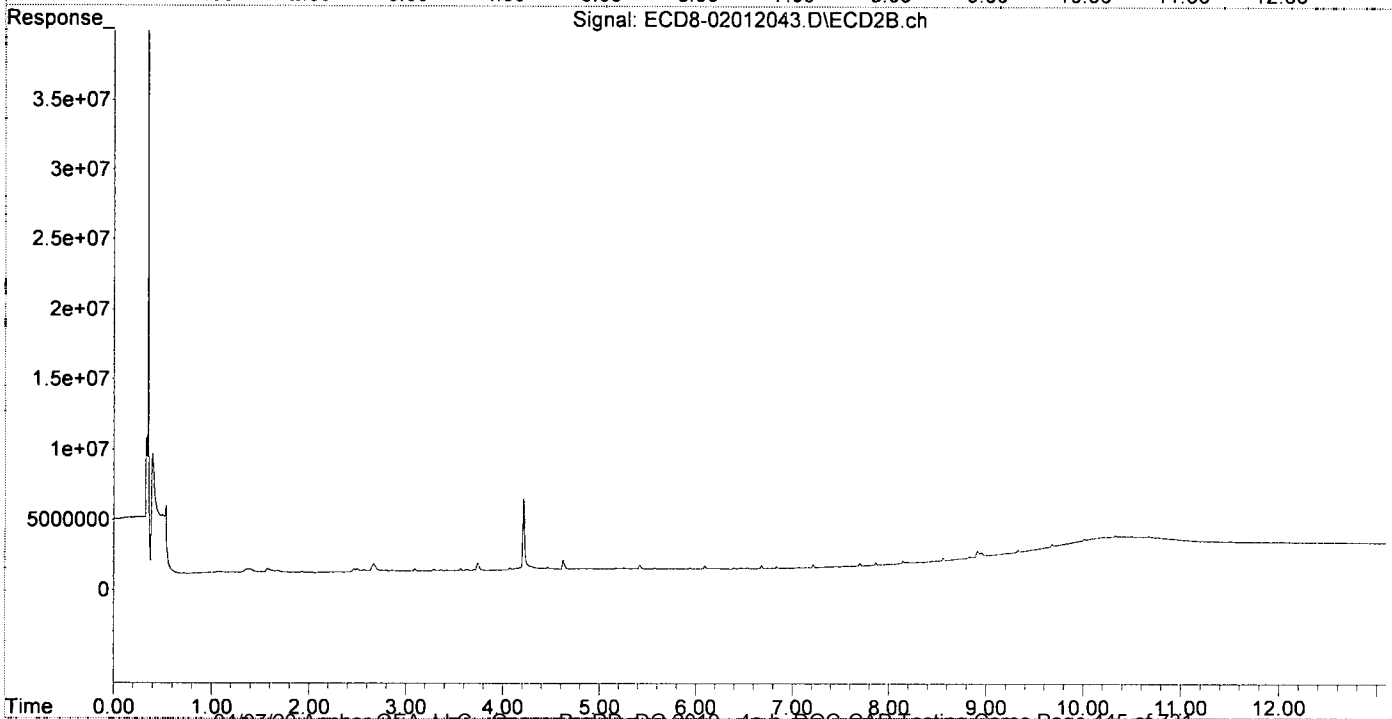
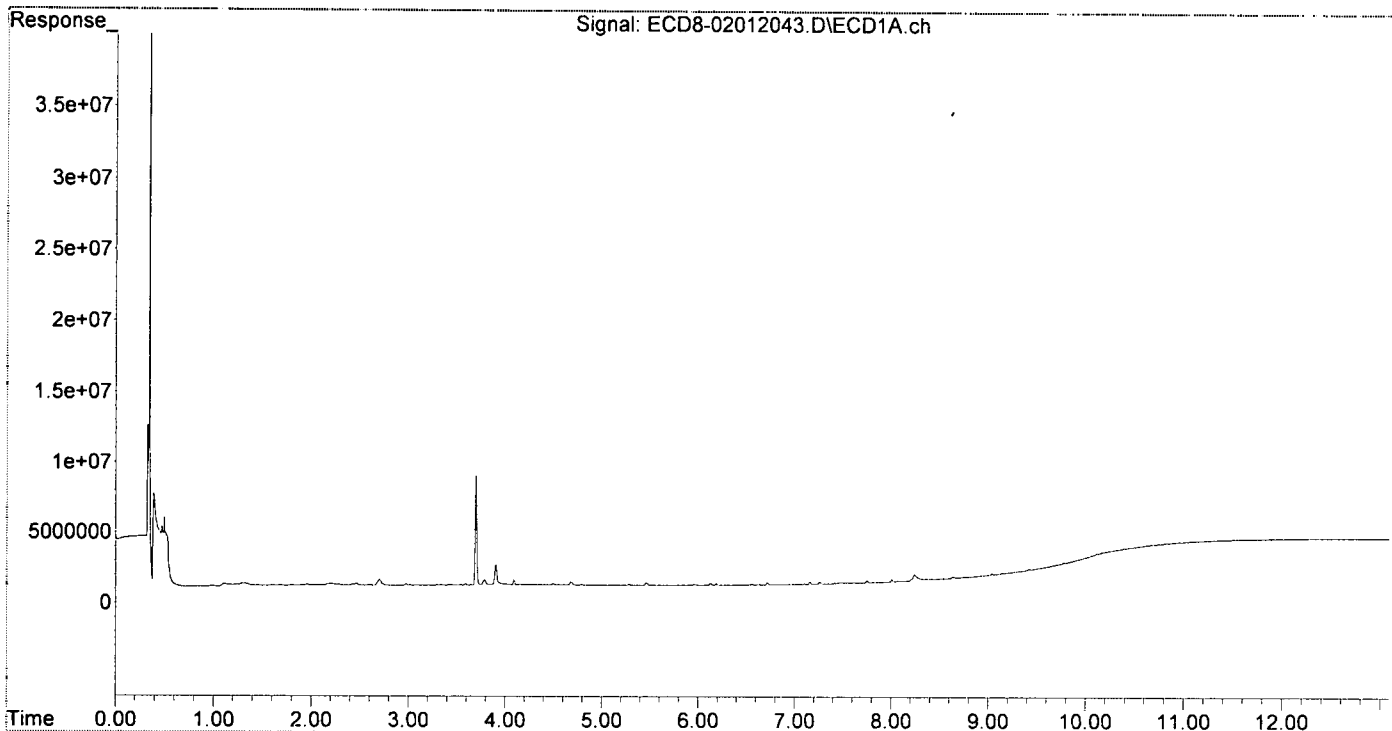
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.283	5.983	97129	10331	0.028	0.003 #
22) S DCBP (S)	9.505	10.525	158391	742061	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.841	6.573	31406	23051	0.007	0.081 #
3) g-BHC	6.129	6.892	144324	11670	0.035	0.045 #
4) b-BHC	6.189	6.979	120878	17225	0.069	0.010 #
5) Heptachlor	6.527	7.312f	11185	14708	0.003	0.003 #
6) d-BHC	6.367f	7.217	13198	216044	0.110	0.159 #
7) Aldrin	0.000	7.566f	0	50700	N.D.	0.026 #
8) Heptachlo...	7.226	7.956f	5275	8156	0.001	0.002 #
9) trans-Chl...	7.330	8.119	12534	38481	0.003	0.010 #
10) cis-Chlor...	7.416	8.253f	46476	21068	0.013	0.006 #
11) Endosulfa...	7.527	8.253f	34189	21068	0.010	0.006 #
12) 4,4'-DDE	7.483	8.332	59358	25862	0.018	0.096 #
13) Dieldrin	7.690	8.447f	8788	41379	0.002	0.044 #
14) Endrin	7.864	8.744f	6653	55434	0.002	0.012 #
15) 4,4'-DDD	7.920	8.744	5377	55434	0.002	0.067 #
16) Endosulfa...	8.008	8.832f	183369	166976	0.061	0.033 #
17) 4,4'-DDT	8.103	8.957	3941	417819	0.001	0.145 #
18) Endrin Al...	8.332f	0.000	76012	0	0.029	N.D. #
19) Endosulfa...	8.608	0.000	16050	0	0.006	N.D. #
20) Methoxychlor	8.449	0.000	14721	0	0.012	N.D. #
21) Endrin Ke...	8.799	9.682	24185	637900	0.007	0.003 #
23) Hexachlor...	3.089	3.699	38132	80810	0.010	0.017 #
24) Hexachlor...	5.674	6.467	16598	64540	0.005	BelowCal #
25) Oxychlorane	7.158	7.900	189063	29768	BelowCal	0.009
26) 2,4'-DDE	7.226	8.119	5275	38481	0.002	0.017 #
27) trans-Non...	7.416	8.186	46476	69988	0.013	0.019 #
28) 2,4'-DDD	7.605	8.447f	47788	41379	0.025	0.022
29) 2,4'-DDT	7.796	8.744f	7574	55434	0.003	BelowCal #
30) cis-Nonac...	7.883	8.744	5420	55434	0.001	0.014 #
31) Mirex	8.549	9.682	13158	637900	8199.123	0.056 #
32) Chlordane...	7.330	8.119	12534	38481	0.031	0.089 #
33) Chlordane...	7.416	8.199f	46476	58670	0.096	0.161 #
34) Chlordane...	7.968	8.915f	5752	516817	0.044	4.352 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.416	8.447	46476	41379	2.839	1.404 #
37) Toxaphene...	7.690	8.832f	8788	166976	0.280	4.155 #
38) Toxaphene...	8.008	8.832	183369	166976	96751.332	2.581 #
39) Toxaphene...	8.240	8.915	443613	516817	BelowCal	1.190
40) Toxaphene...	8.472	0.000	15357	0	0.283	N.D. #
41) Toxaphene...	8.542	0.000	12646	0	0.166	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:05
Operator : MJB
Sample : 0B01012-IBL4
Misc : Instrument Blank
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:36 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012044.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 2:22
 Operator : MJB
 Sample : 0B01012-ICV4
 Misc : A19J422, TOX 500 ppb
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 17:28:40 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

*MP
2/3/20*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.335f	5.983	110999	99182	0.032	0.029
22) S DCBP (S)	9.497	10.515f	693247	1717771	BelowCal	0.343
Target Compounds						
2) a-BHC	5.835	6.586	99095	77467	0.021	0.094 #
3) g-BHC	6.114	6.893	37764	131681	0.009	0.076 #
4) b-BHC	6.186	6.975	248202	87005	0.143	0.050 #
5) Heptachlor	6.528	7.276	319553	350072	0.078	0.083
6) d-BHC	6.329	7.219	100730	261363	0.136	0.172 #
7) Aldrin	6.766	7.566f	717392	1005500	0.178	0.281 #
8) Heptachlo...	7.231	7.970	2516758	4123931	0.682	1.149 #
9) trans-Chl...	7.312	8.098f	3488495	4637356	0.928	1.247 #
10) cis-Chlor...	7.399f	8.206f	7661138	4552878	2.086	1.292 #
11) Endosulfa...	7.521	8.281	9638582	6414998	2.779	1.941 #
12) 4,4'-DDE	7.496	8.345	5092095	7757940	1.533	2.569 #
13) Dieldrin	7.692	8.492	14272433	8195816	3.743	2.366 #
14) Endrin	7.837	8.700	12909489	16527403	3.956	5.696 #
15) 4,4'-DDD	7.921	8.750	13381873	11127699	5.258	4.751
16) Endosulfa...	8.002	8.859	33473288	8447138	11.189	3.157 #
17) 4,4'-DDT	8.132f	8.966	8361255	12980220	3.110	5.205 #
18) Endrin Al...	8.292	9.081	23426405	27489175	8.898	10.398
19) Endosulfa...	8.608	9.282	14242045	12740392	4.976	4.966
20) Methoxychlor	8.443	9.462	11306361	30731027	9.370	26.832 #
21) Endrin Ke...	8.791	9.705f	9140654	7146433	2.645	2.304
23) Hexachlor...	3.082	3.677	66915	65283	0.017	0.013
24) Hexachlor...	5.686	6.432	20834	35211	0.006	BelowCal #
25) Oxychlordane	7.160	7.923	6174300	3491517	1.831	1.092 #
26) 2,4'-DDE	7.231	8.098	2516758	4637356	1.089	2.040 #
27) trans-Non...	7.399	8.191	7661138	5108856	2.090	1.415 #
28) 2,4'-DDD	7.610	8.492	10401060	8195816	5.370	4.281
29) 2,4'-DDT	7.792	8.700	17863901	16527403	7.465	7.606
30) cis-Nonac...	7.879	8.750	21800253	11127699	5.357	2.792 #
31) Mirex	8.538	9.705f	35082093	7146433	14.303	3.197 #
32) Chlordane...	7.312	8.098	3488495	4637356	8.711	10.673
33) Chlordane...	7.399f	8.206	7661138	4552878	15.753	12.523
34) Chlordane...	7.942f	8.904	15096168	50103773	115.948	421.907 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.399	8.453	7661138	14031789	468.016	476.155
37) Toxaphene...	7.692	8.802	14272433	19300126	454.313	480.235
38) Toxaphene...	8.002	8.837	33473288	30293001	474.677	468.233
39) Toxaphene...	8.244	8.904	32680583	50103773	494.355	498.360
40) Toxaphene...	8.470	9.081	26380028	27489175	486.695	479.497
41) Toxaphene...	8.538	9.462	35082093	30731027	461.278	465.242
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

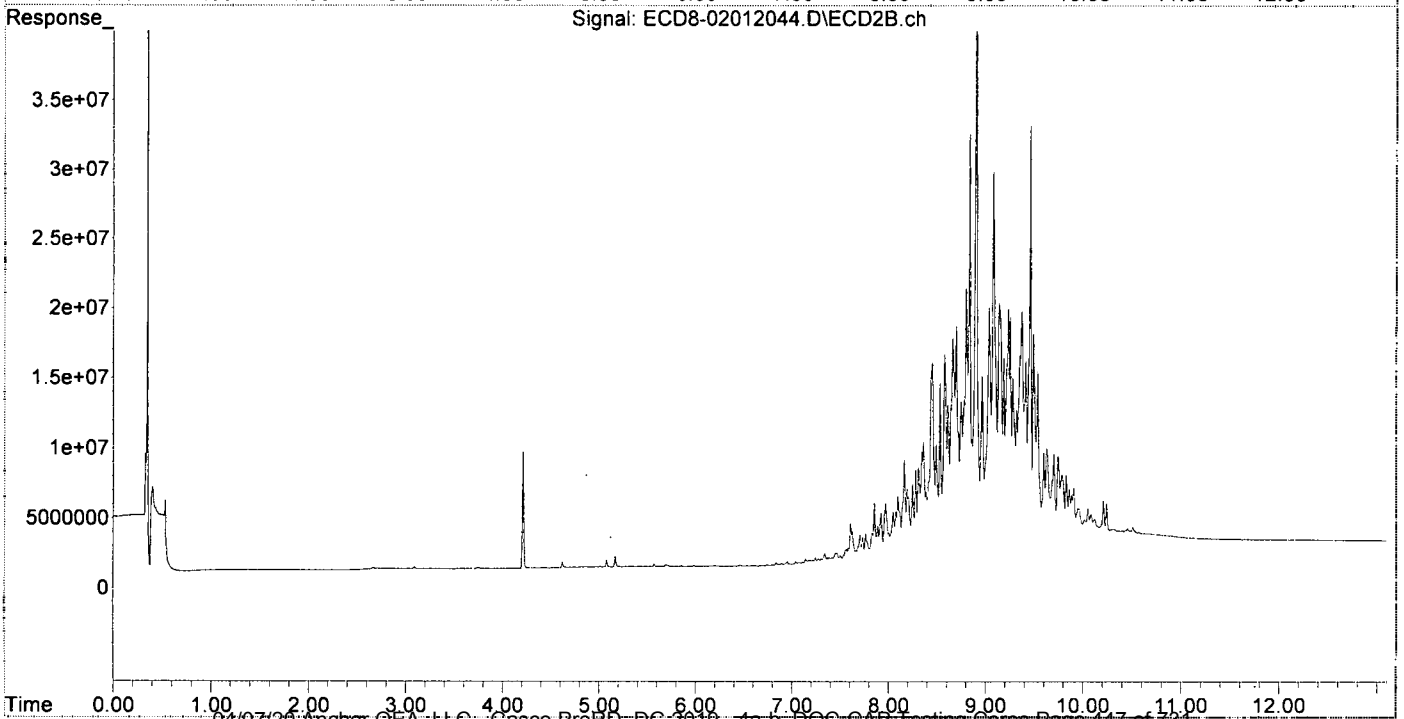
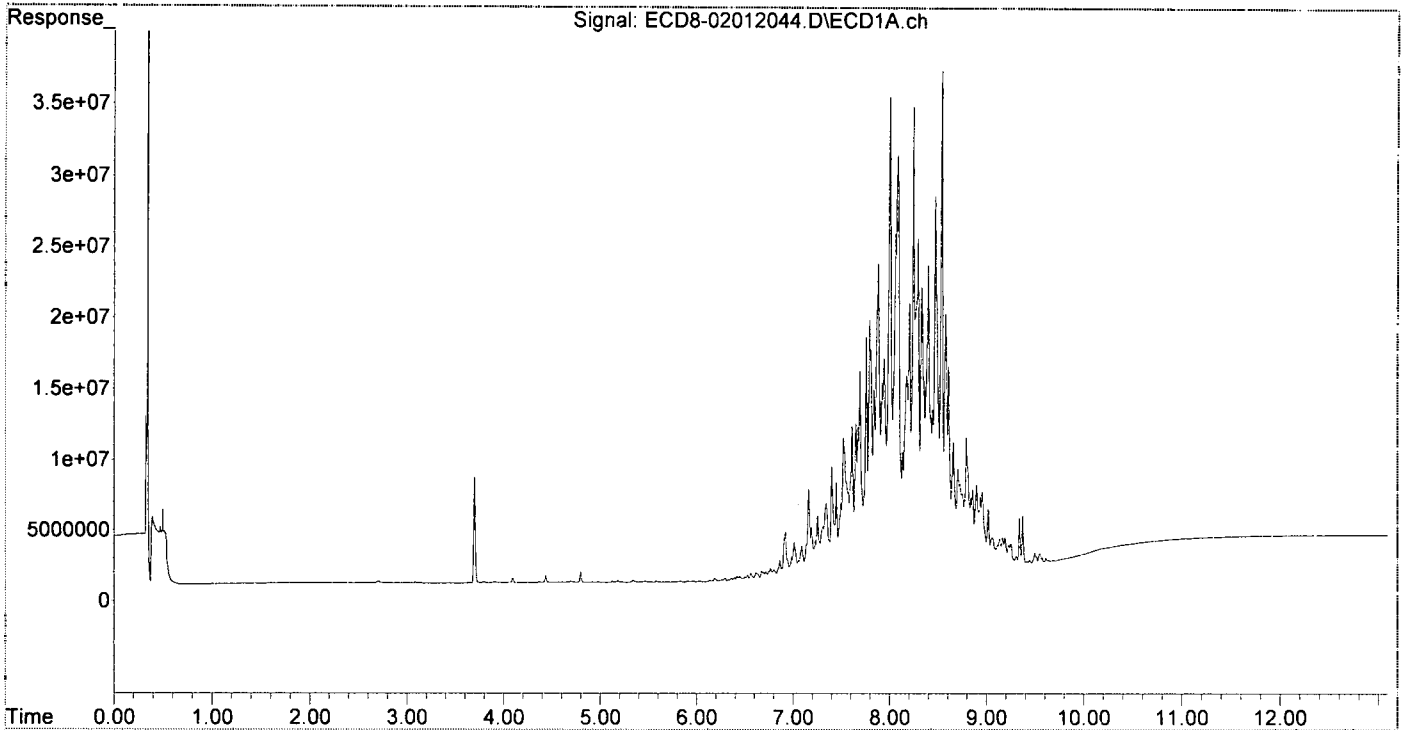
473.22 *477.95*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012044.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 2:22
Operator : MJB
Sample : 0B01012-ICV4
Misc : A19J422, TOX 500 ppb
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 17:28:40 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200201.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012005.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:26
 Operator : MJB
 Sample : 0B01012-CAL1
 Misc : A20B001, AB 0.5 ppb
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:45:47 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

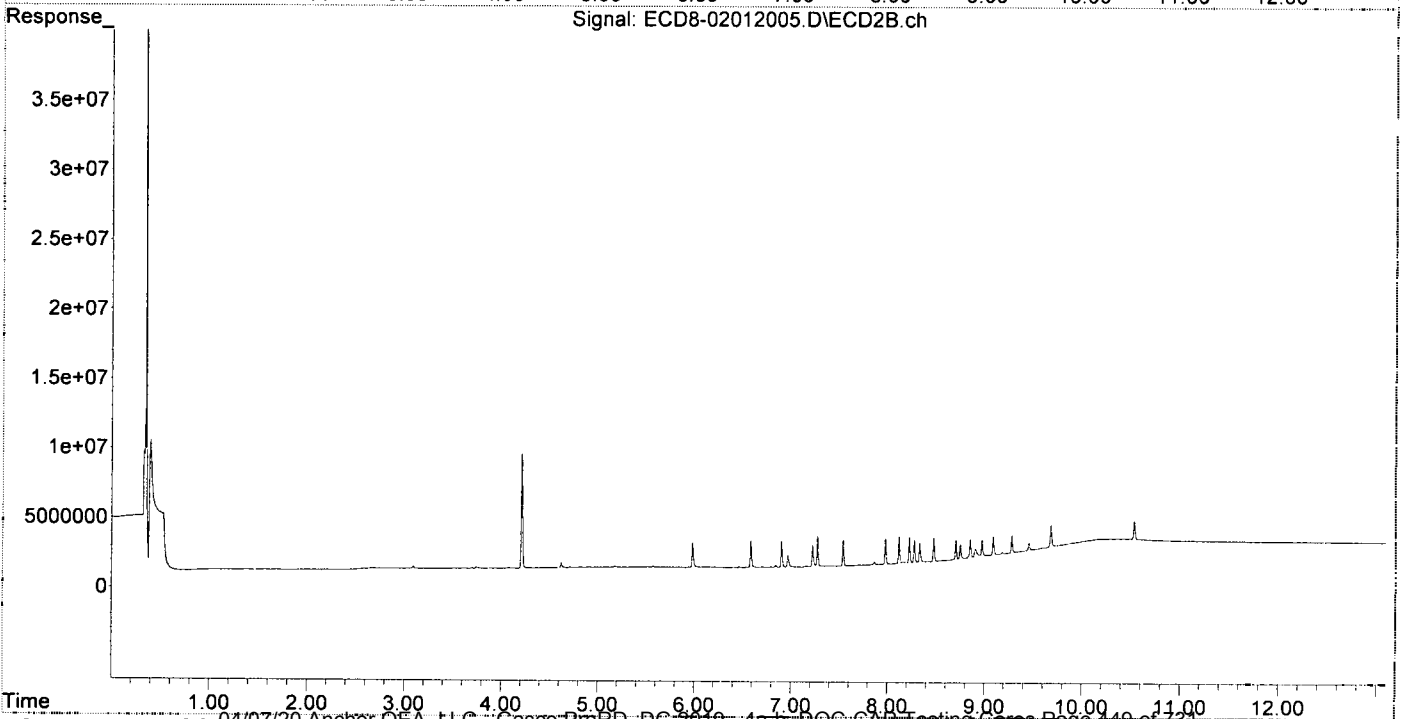
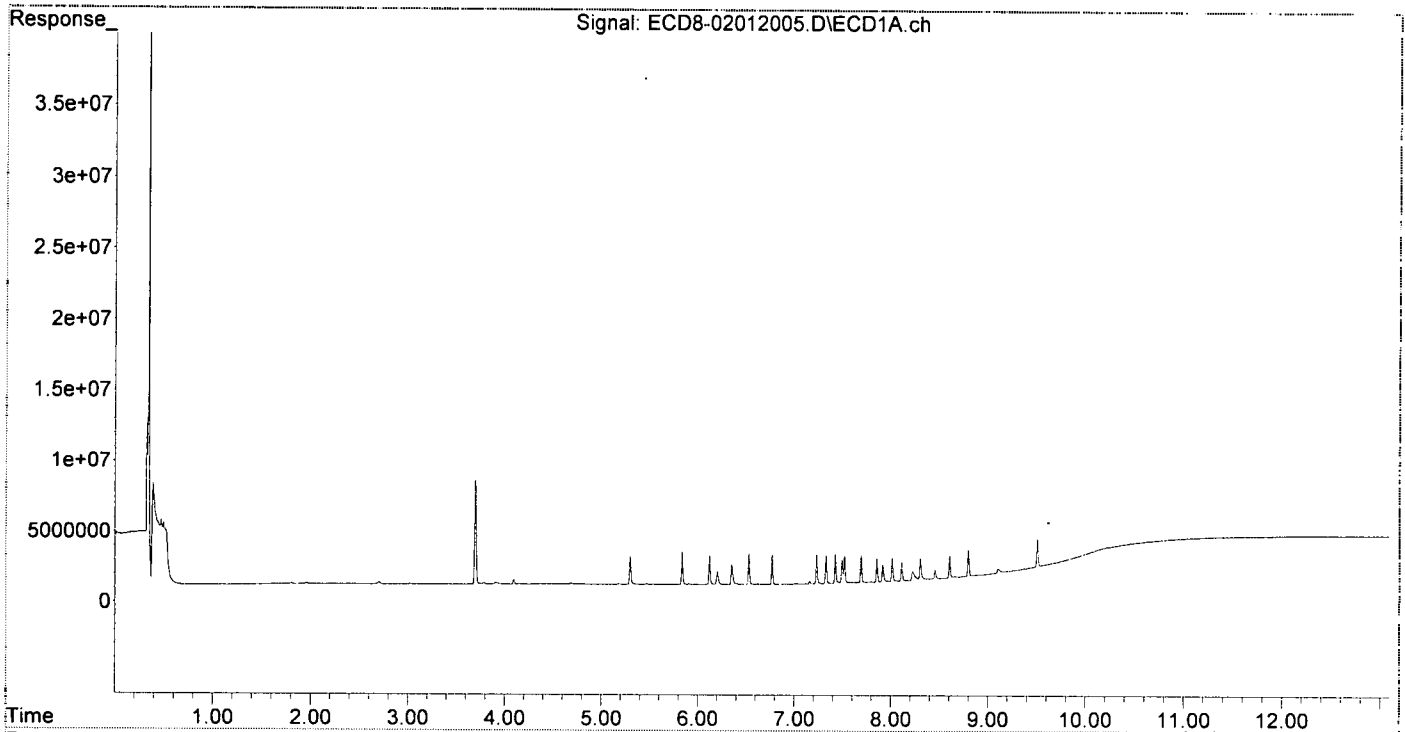
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.982	2010387	1807457	0.575	0.524
22) S DCBP (S)	9.507	10.537	2137981	2121210	0.502	0.543
Target Compounds						
2) a-BHC	5.836	6.585	2323532	1906806	0.492	0.522
3) g-BHC	6.120	6.903	2098226	1857818	0.504	0.518
4) b-BHC	6.201	6.970	943381	871353	0.542	0.502
5) Heptachlor	6.529	7.276	2213636	2166906	0.539	0.515
6) d-BHC	6.351	7.224	1446613	1525163	0.525	0.533
7) Aldrin	6.769	7.541	2117773	1887335	0.524	0.516
8) Heptachlo...	7.230	7.979	1701747	1829309	0.552	0.510
9) trans-Chl...	7.327	8.119	2006872	1923989	0.534	0.517
10) cis-Chlor...	7.424	8.226	2072536	1851957	0.564	0.526
11) Endosulfa...	7.519	8.277	1932337	1589681	0.557	0.481
12) 4,4'-DDE	7.493	8.333	1628951	1346237	0.491	0.520
13) Dieldrin	7.691	8.478	1958633	1711724	0.514	0.521
14) Endrin	7.854	8.705	1701747	1499119	0.521	0.514
15) 4,4'-DDD	7.915	8.751	1218671	1119384	0.479	0.522
16) Endosulfa...	8.013	8.854	1650694	1442453	0.552	0.516
17) 4,4'-DDT	8.110	8.975	1351757	1360505	0.503	0.529
18) Endrin Al...	8.303	9.091	1534740	1556354	0.583	0.589
19) Endosulfa...	8.604	9.282	1548557	1535031	0.541	0.525
20) Methoxychlor	8.454	9.456	650344	981544	0.539	0.552
21) Endrin Ke...	8.797	9.683	1865728	2135612	0.540	0.534
23) Hexachlor...	3.076	3.696	17677	66321	0.005	0.014 #
24) Hexachlor...	5.680	6.447	15123	21644	0.004	BelowCal #
25) Oxychlordane	7.158	7.908	207459	12353	BelowCal	0.004
26) 2,4'-DDE	7.230	8.119	2037408	1923989	0.881	0.846
27) trans-Non...	7.424	8.158f	2072536	113688	0.565	0.031 #
28) 2,4'-DDD	7.613	8.478	26854	1711724	0.014	0.894 #
29) 2,4'-DDT	7.794	8.705	41169	1499119	0.017	0.654 #
30) cis-Nonac...	7.915f	8.751	1218671	1119384	0.299	0.281
31) Mirex	8.550	9.683	18576	2135612	8199.121	0.780 #
32) Chlordane...	7.327	8.119	2006872	1923989	5.011	4.428
33) Chlordane...	7.424	8.226	2072536	1851957	4.262	5.094
34) Chlordane...	7.976	8.906	24188	731865	0.186	6.163 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.424f	8.478f	2072536	1711724	126.610	58.086 #
37) Toxaphene...	7.691	0.000	1958633	0	62.346	N.D. #
38) Toxaphene...	8.013	8.854	1650694	1442453	20.294	22.296
39) Toxaphene...	8.224	8.906	649309	731865	3.068	3.425
40) Toxaphene...	8.454	9.091	650344	1556354	11.998	27.148 #
41) Toxaphene...	8.550	9.456	18576	981544	0.244	14.860 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:45:47 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:43
 Operator : MJB
 Sample : 0B01012-CAL2
 Misc : A20B002, AB 1 ppb
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:46:01 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

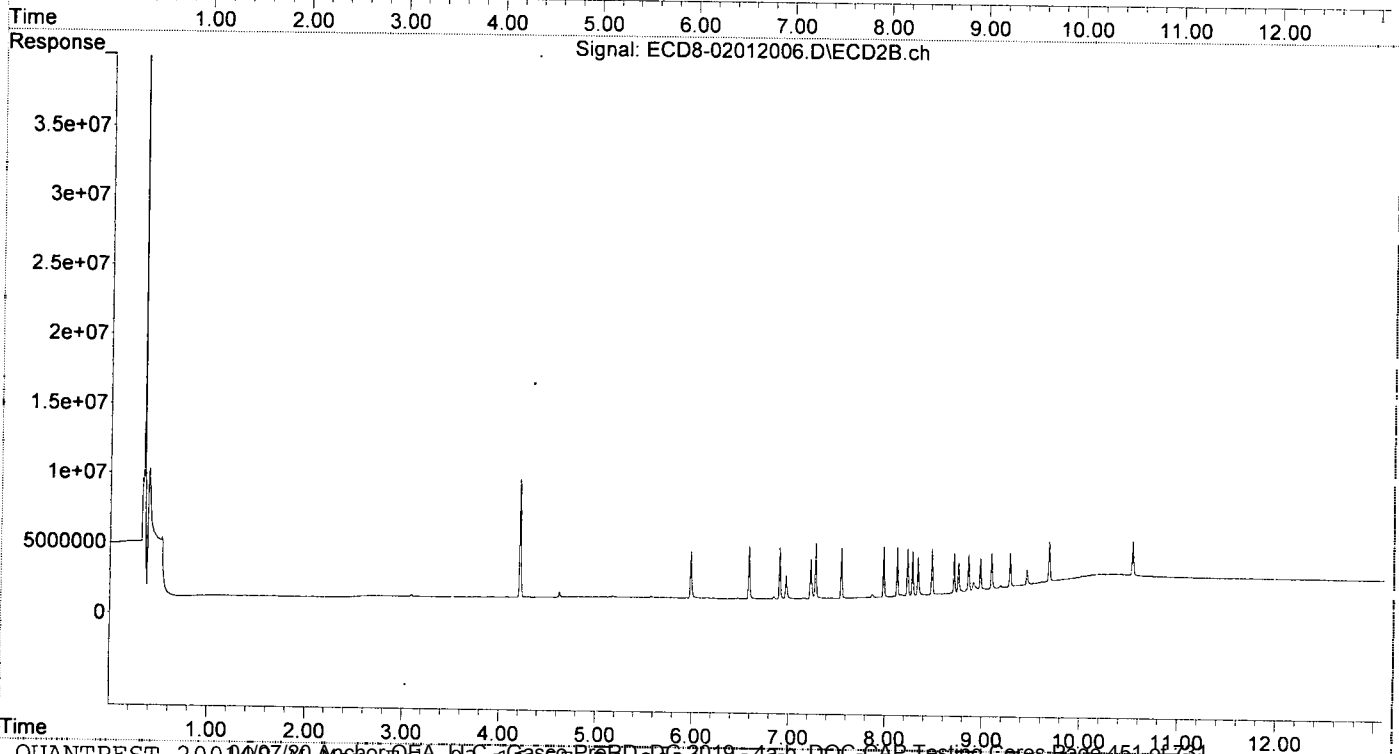
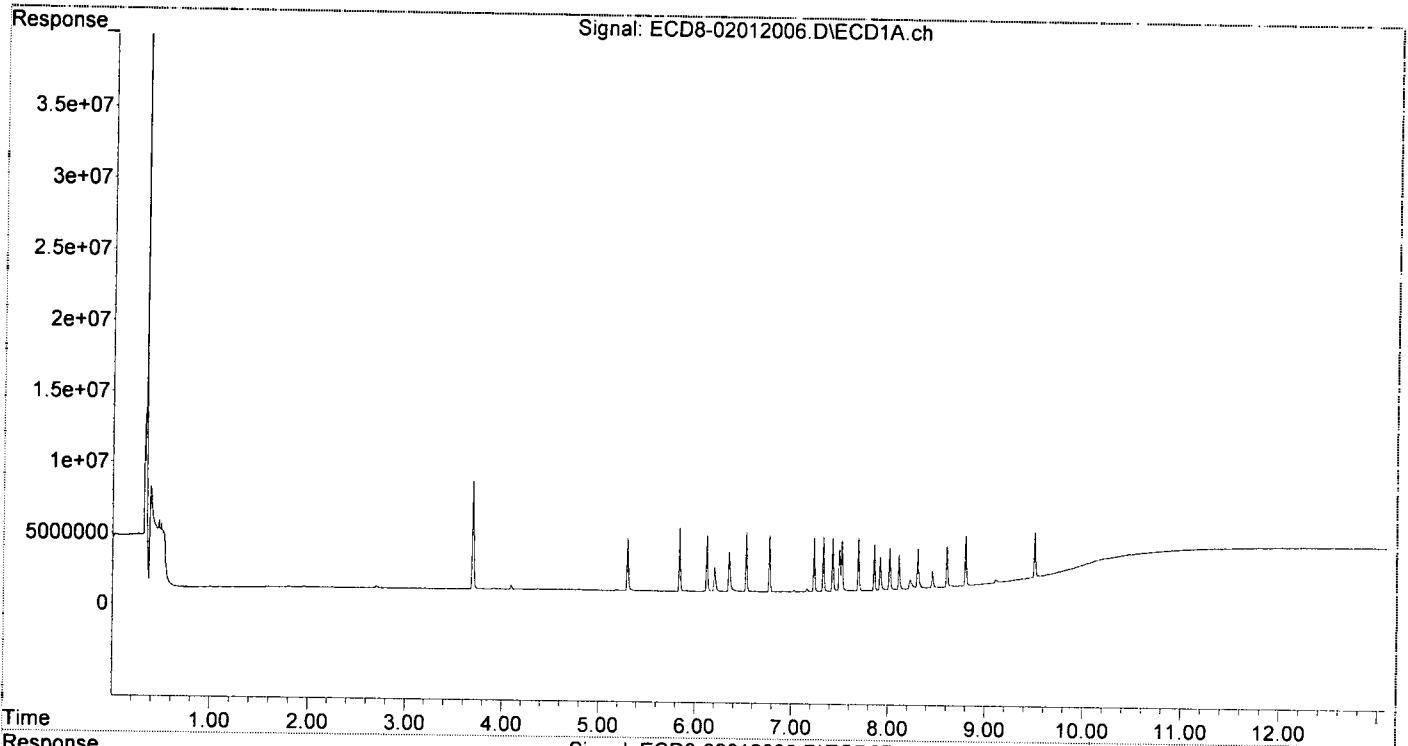
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.982	3713760	3325610	1.062	0.964
22) S DCBP (S)	9.507	10.537	3342363	2619998	0.974	0.789
Target Compounds						
2) a-BHC	5.837	6.585	4491787	3754344	0.951	0.954
3) g-BHC	6.120	6.902	3995270	3614287	0.960	0.967
4) b-BHC	6.200	6.968	1736591	1672509	0.997	0.963
5) Heptachlor	6.529	7.275	4223019	4011938	1.028	0.953
6) d-BHC	6.351	7.224	2800163	2821743	0.916	0.902
7) Aldrin	6.769	7.542	4023063	3540234	0.996	0.957
8) Heptachlo...	7.230	7.979	3849968	3563306	1.043	0.993
9) trans-Chl...	7.327	8.119	3865919	3473086	1.028	0.934
10) cis-Chlor...	7.423	8.226	3812238	3361292	1.038	0.954
11) Endosulfa...	7.519	8.277	3593891	3092501	1.036	0.936
12) 4,4'-DDE	7.493	8.333	2976091	2684993	0.896	0.950
13) Dieldrin	7.691	8.478	3771816	3204188	0.989	0.946
14) Endrin	7.854	8.705	3307872	2810308	1.014	0.970
15) 4,4'-DDD	7.914	8.751	2373048	2115078	0.932	0.947
16) Endosulfa...	8.013	8.855	3004856	2617481	1.004	0.961
17) 4,4'-DDT	8.109	8.975	2497592	2317293	0.929	0.918
18) Endrin Al...	8.303	9.091	2830842	2604623	1.075	0.985
19) Endosulfa...	8.604	9.281	2921925	2490983	1.021	0.907
20) Methoxychlor	8.454	9.454	1197106	1213779	0.992	0.771
21) Endrin Ke...	8.797	9.683	3540934	3121972	1.024	0.884
23) Hexachlor...	3.090	3.700f	34197	52265	0.009	0.011
24) Hexachlor...	5.679	6.468f	17136	67766	0.005	BelowCal #
25) Oxychlordane	7.158	7.906	229463	16925	BelowCal	0.005
26) 2,4'-DDE	7.230	8.119	3849968	3473086	1.665	1.528
27) trans-Non...	7.423	8.157f	3812238	110192	1.040	0.031 #
28) 2,4'-DDD	7.611	8.478	37705	3204188	0.019	1.674 #
29) 2,4'-DDT	7.797	8.705	35190	2810308	0.015	1.268 #
30) cis-Nonac...	7.914f	8.751	2373048	2115078	0.583	0.531
31) Mirex	8.548	9.683	21941	3121972	8199.120	1.256 #
32) Chlordane...	7.327	8.119	3865919	3473086	9.653	7.994
33) Chlordane...	7.423	8.226	3812238	3361292	7.839	9.246
34) Chlordane...	7.972	8.905	48030	675601	0.369	5.689 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.423f	8.478f	3812238	3204188	232.888	108.731 #
37) Toxaphene...	7.691	8.832f	3771816	172881	120.063	4.302 #
38) Toxaphene...	8.013	8.832	3004856	172881	39.542	2.672 #
39) Toxaphene...	8.223f	8.905	667811	675601	3.353	2.840
40) Toxaphene...	8.454	9.091	1197106	2604623	22.086	45.433 #
41) Toxaphene...	8.548	9.454	21941	1213779	0.288	18.376 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012006.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:43
Operator : MJB
Sample : 0B01012-CAL2
Misc : A20B002, AB 1 ppb
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:46:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:00
 Operator : MJB
 Sample : 0B01012-CAL3
 Misc : A19K128, AB 2 ppb
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:47:45 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

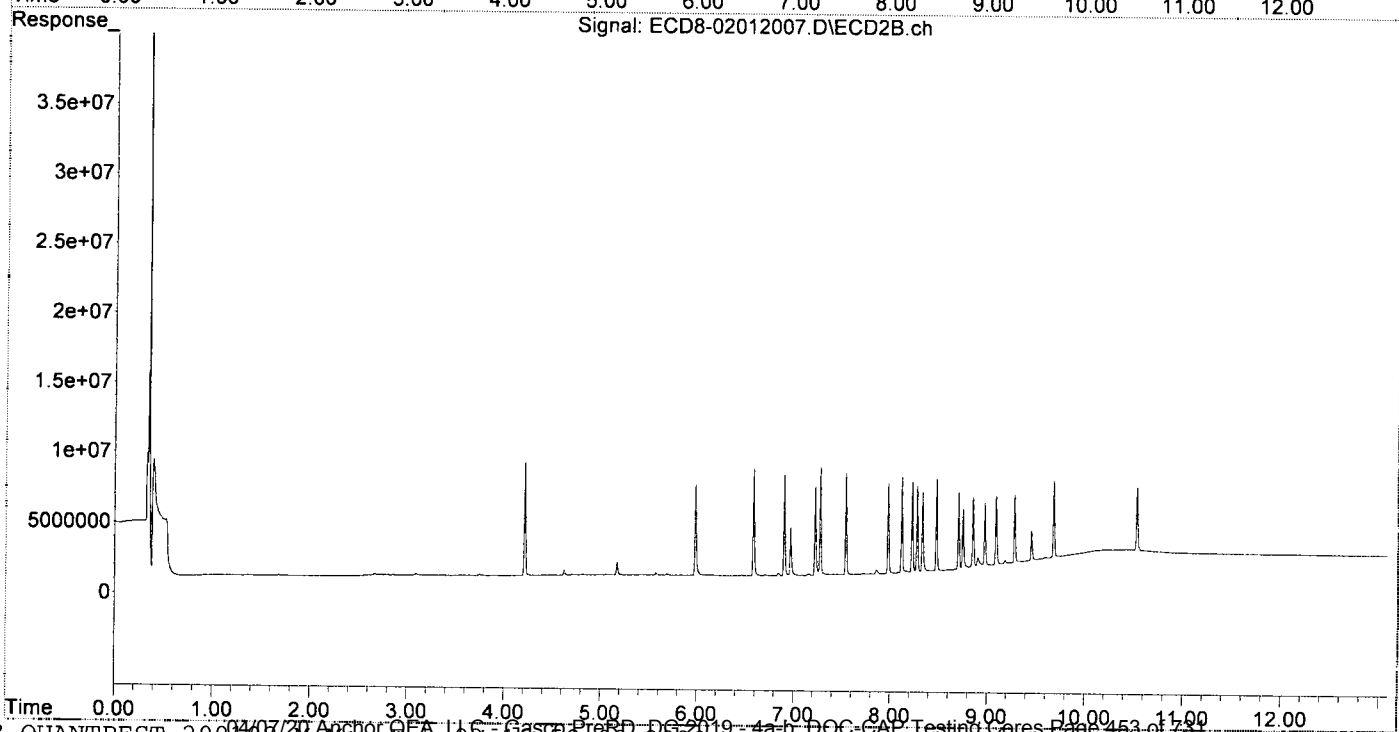
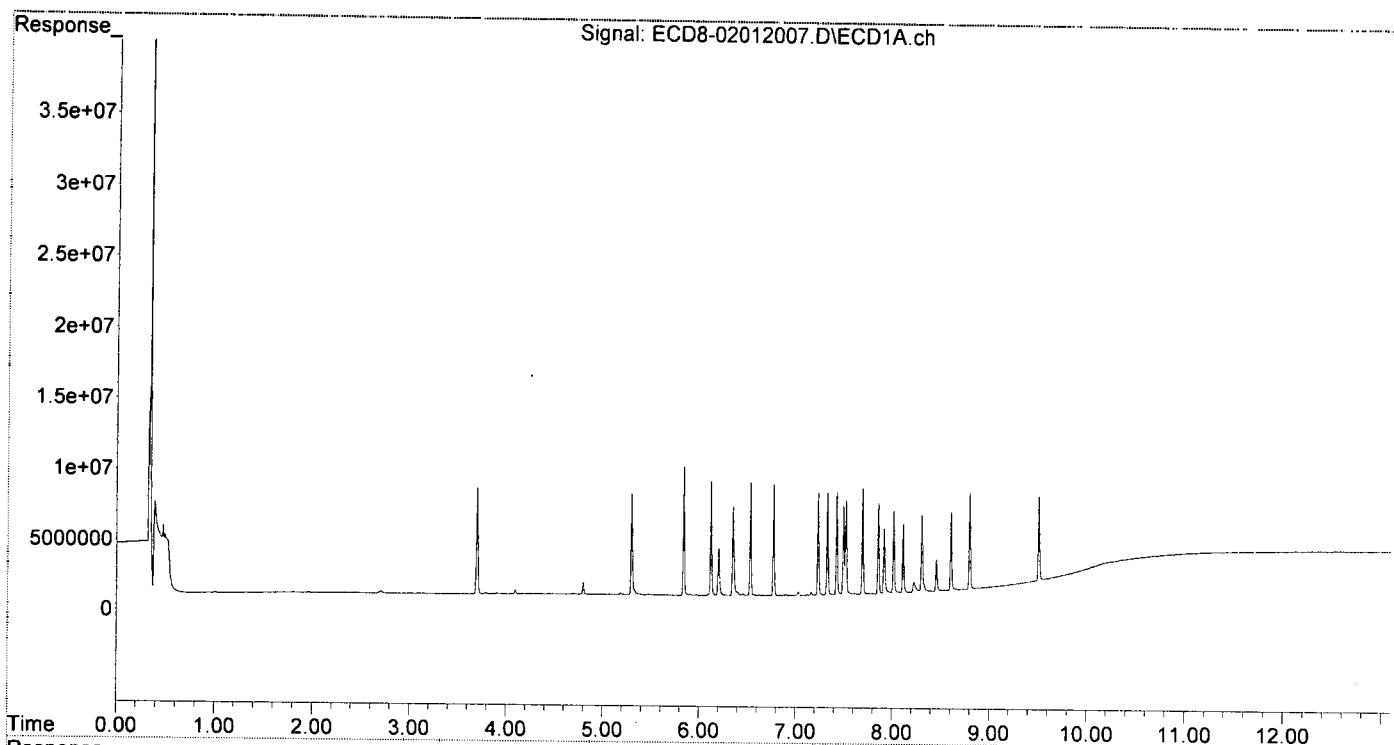
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.982	7209311	6464924	2.062	1.874
22) S DCBP (S)	9.506	10.536	6150705	5371510	2.072	2.149
Target Compounds						
2) a-BHC	5.837	6.585	9150524	7591226	1.937	1.848
3) g-BHC	6.119	6.902	8103069	7144289	1.946	1.868
4) b-BHC	6.199	6.967	3435299	3394908	1.972	1.956
5) Heptachlor	6.529	7.275	8104217	7612959	1.972	1.808
6) d-BHC	6.348	7.222	6356662	6360084	1.943	1.907
7) Aldrin	6.768	7.541	7878680	7212786	1.950	1.935
8) Heptachlo...	7.230	7.979	7310938	6383239	1.980	1.778
9) trans-Chl...	7.326	8.118	7233767	6824804	1.924	1.835
10) cis-Chlor...	7.423	8.226	7290278	6414031	1.985	1.821
11) Endosulfa...	7.518	8.277	6684329	6087483	1.927	1.842
12) 4,4'-DDE	7.492	8.332	6364080	5670683	1.916	1.904
13) Dieldrin	7.691	8.477	7527776	6556953	1.974	1.900
14) Endrin	7.854	8.705	6440400	5547721	1.973	1.919
15) 4,4'-DDD	7.912	8.750	4683505	4350712	1.840	1.898
16) Endosulfa...	8.012	8.854	5851117	5197583	1.956	1.935
17) 4,4'-DDT	8.109	8.975	4907038	4735251	1.825	1.899
18) Endrin Al...	8.302	9.091	5465292	5226313	2.076	1.977
19) Endosulfa...	8.604	9.281	5585397	5212773	1.951	1.991
20) Methoxychlor	8.453	9.455	2268598	2619150	1.880	2.091
21) Endrin Ke...	8.797	9.682	6824708	6091766	1.974	1.933
23) Hexachlor...	3.089	3.700f	46078	15667	0.012	0.003 #
24) Hexachlor...	5.679	6.464	28017	76831	0.008	BelowCal #
25) Oxylchlorane	7.157	7.909	222150	14464	BelowCal	0.005
26) 2,4'-DDE	7.230	8.118	7310938	6824804	3.162	3.003
27) trans-Non...	7.423	8.173	7290278	115022	1.989	0.032 #
28) 2,4'-DDD	7.612	8.477	46139	6556953	0.024	3.425 #
29) 2,4'-DDT	7.796	8.705	45942	5547721	0.019	2.545 #
30) cis-Nonac...	7.912f	8.750	4683505	4350712	1.151	1.092
31) Mirex	8.543	9.682	39979	6091766	8199.112	2.689 #
32) Chlordane...	7.326	8.118	7233767	6824804	18.063	15.708
33) Chlordane...	7.423	8.226	7290278	6414031	14.990	17.643
34) Chlordane...	0.000	8.904	0	888424	N.D.	7.481 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.423f	8.477f	7290278	6556953	445.360	222.504 #
37) Toxaphene...	7.691	0.000	7527776	0	239.620	N.D. #
38) Toxaphene...	8.012	8.854	5851117	5197583	80.025	80.338
39) Toxaphene...	8.221f	8.904	753222	888424	4.670	5.052
40) Toxaphene...	8.453	9.091	2268598	5226313	41.854	91.163 #
41) Toxaphene...	8.543	9.455	39979	2619150	0.526	39.652 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:47:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012008.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:16
 Operator : MJB
 Sample : 0B01012-CAL4
 Misc : A19K130, AB 5 ppb
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:48:00 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

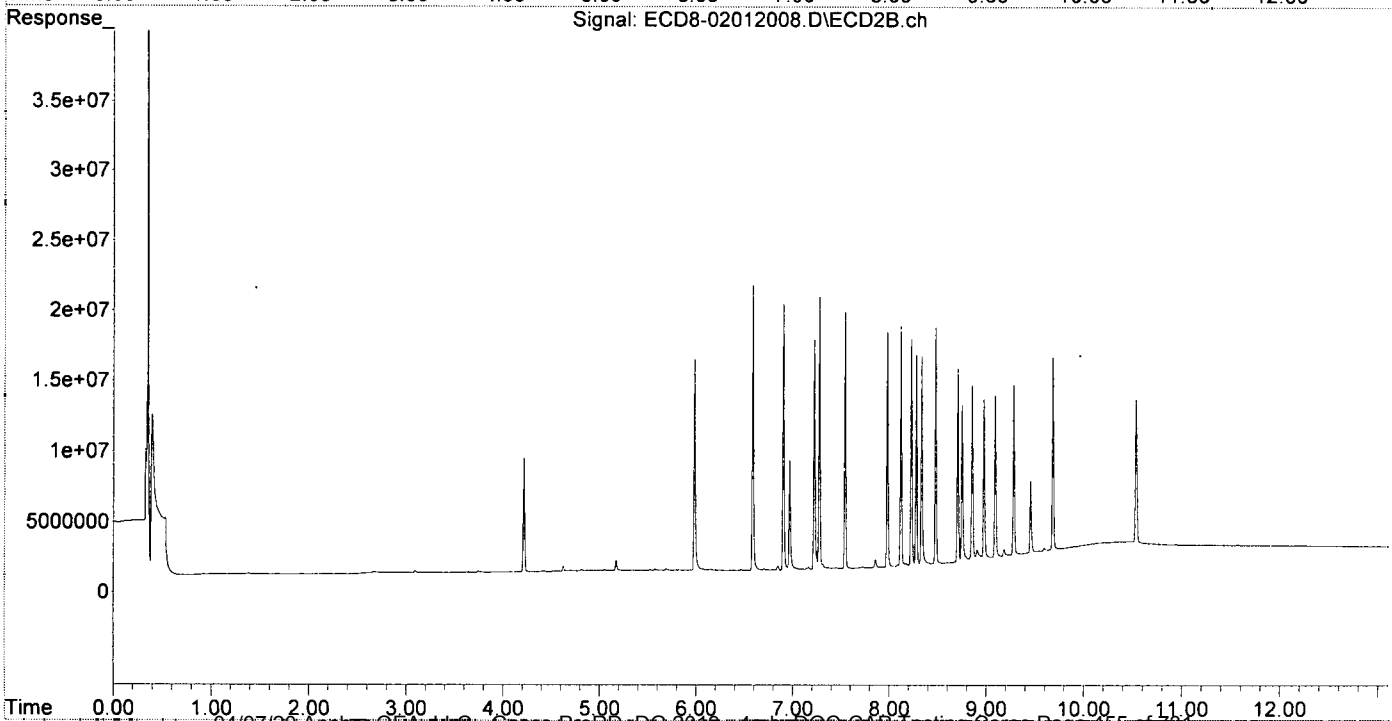
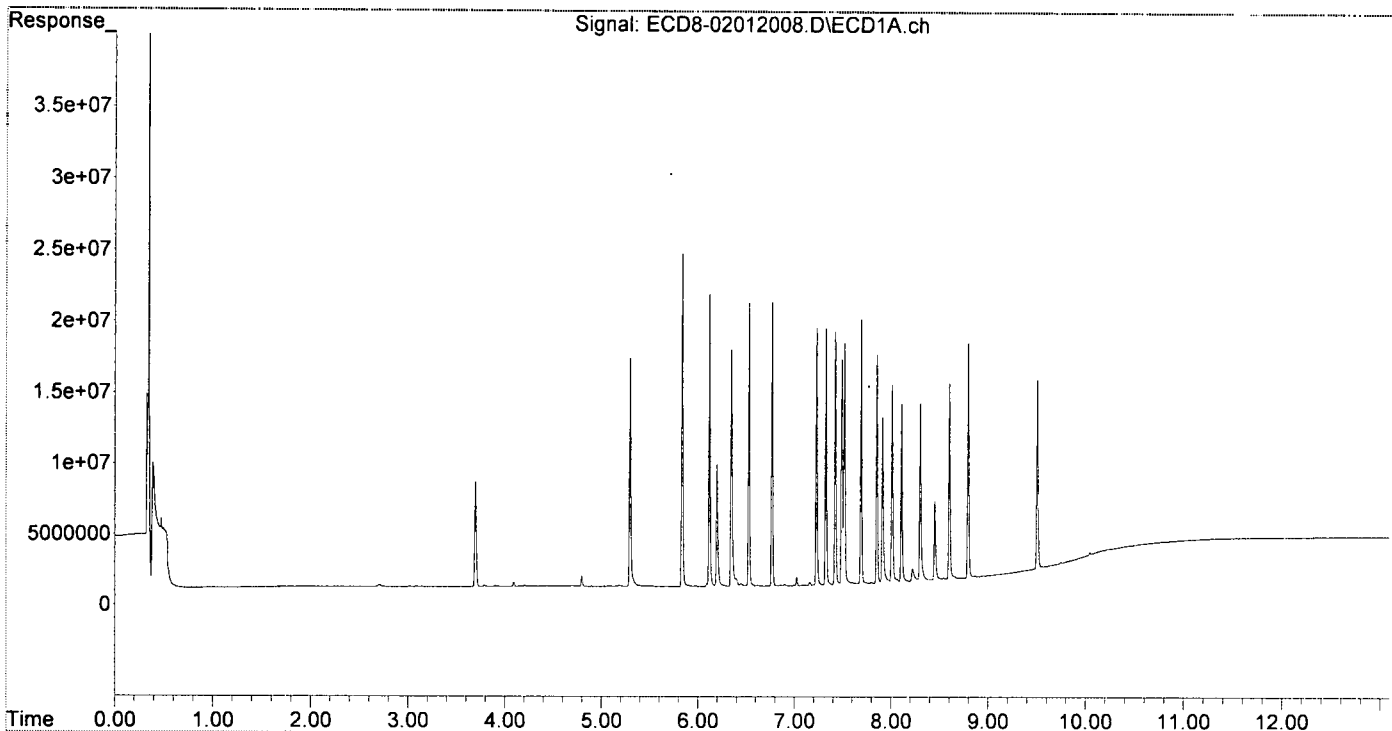
MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.981	16081203	15031272	4.600	4.357
22) S DCBP (S)	9.507	10.536	13550213	11242637	4.961	5.037
Target Compounds						
2) a-BHC	5.837	6.585	23466079	20250518	4.967	4.778
3) g-BHC	6.119	6.902	20617843	18903687	4.952	4.850
4) b-BHC	6.198	6.967	8638547	7798279	4.960	4.492
5) Heptachlor	6.529	7.275	20002736	19371564	4.867	4.600
6) d-BHC	6.347	7.222	16718254	16286148	4.918	4.704
7) Aldrin	6.769	7.542	20021477	18260292	4.955	4.858
8) Heptachlo...	7.230	7.979	18211245	16663788	4.932	4.642
9) trans-Chl...	7.327	8.118	18164041	17064405	4.830	4.589
10) cis-Chlor...	7.423	8.226	17894373	16061241	4.873	4.559
11) Endosulfa...	7.519	8.277	17033099	14978724	4.910	4.532
12) 4,4'-DDE	7.491	8.333	15902445	14859572	4.789	4.819
13) Dieldrin	7.691	8.478	18752761	16896160	4.918	4.826
14) Endrin	7.854	8.706	16153756	13876087	4.950	4.788
15) 4,4'-DDD	7.913	8.749	11737231	11254024	4.612	4.804
16) Endosulfa...	8.012	8.854	14001650	12686668	4.680	4.743
17) 4,4'-DDT	8.109	8.975	12632646	11635054	4.699	4.669
18) Endrin Al...	8.303	9.090	12590069	11838674	4.782	4.478
19) Endosulfa...	8.603	9.281	13843885	12518228	4.837	4.879
20) Methoxychlor	8.453	9.454	5565381	5652133	4.612	4.909
21) Endrin Ke...	8.797	9.683	16623046	14402455	4.809	4.847
23) Hexachlor...	3.087	3.682	36876	15974	0.009	0.003 #
24) Hexachlor...	5.682	6.466	37875	80608	0.011	BelowCal #
25) Oxychlordane	7.158	7.910	243167	27947	BelowCal	0.009
26) 2,4'-DDE	7.230	8.118	18211245	17064405	7.877	7.507
27) trans-Non...	7.423	8.178	17894373	182055	4.881	0.050 #
28) 2,4'-DDD	7.611	8.478	87247	16896160	0.045	8.826 #
29) 2,4'-DDT	7.796	8.706	107331	13876087	0.045	6.393 #
30) cis-Nonac...	7.913f	8.749	11737231	11254024	2.884	2.824
31) Mirex	8.545	9.683	90475	14402455	8199.092	6.686 #
32) Chlordane...	7.327	8.118	18164041	17064405	45.356	39.276
33) Chlordane...	7.423	8.226	17894373	16061241	36.795	44.178
34) Chlordane...	0.000	8.904	0	956307	N.D.	8.053 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.394	8.478f	19911	16896160	1.216	573.354 #
37) Toxaphene...	7.691	0.000	18752761	0	596.928	N.D. #
38) Toxaphene...	8.012	8.854	14001650	12686668	196.140	196.095
39) Toxaphene...	8.224f	8.904	868825	956307	6.452	5.758
40) Toxaphene...	8.453	9.090	5565381	11838674	102.678	206.504 #
41) Toxaphene...	8.545	9.454	90475	5652133	1.190	85.569 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:33
 Operator : MJB
 Sample : 0B01012-CAL5
 Misc : A19K131, AB 10 ppb
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:48:09 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

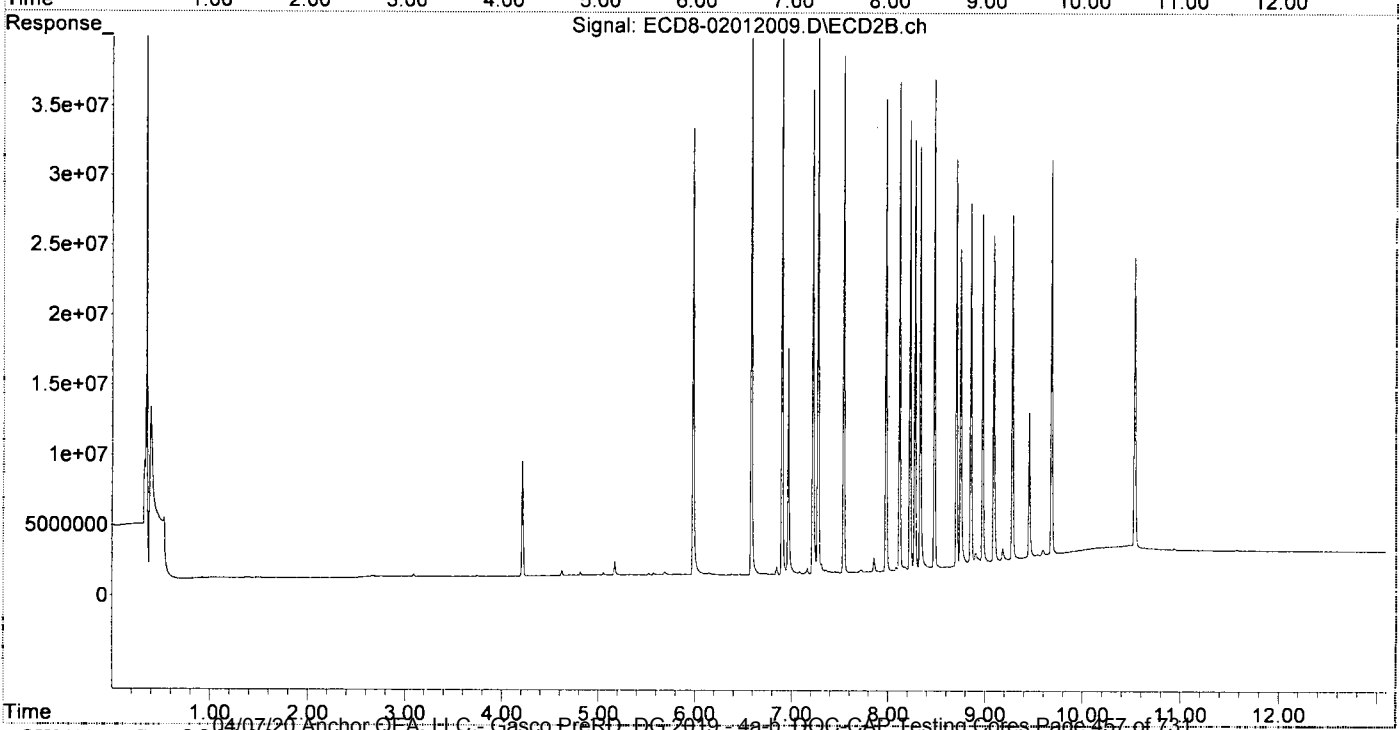
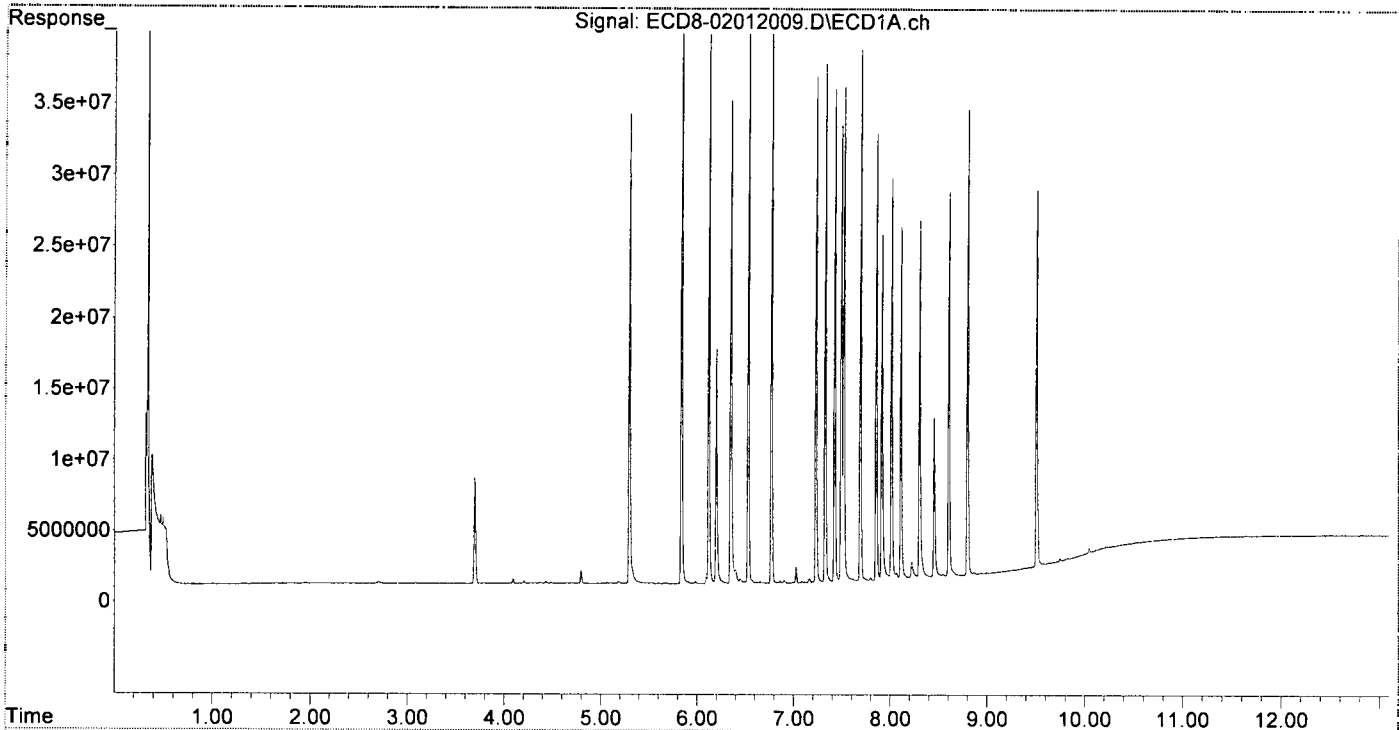
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	33031495	31880995	9.448	9.242
22) S DCBP (S)	9.507	10.537	26605868	21641632	10.038	10.109
Target Compounds						
2) a-BHC	5.836	6.585	46556069	43486995	9.854	10.072
3) g-BHC	6.119	6.902	40429962	38516992	9.711	9.763
4) b-BHC	6.198	6.967	16571546	16056619	9.515	9.249
5) Heptachlor	6.529	7.275	39900092	38743493	9.708	9.201
6) d-BHC	6.346	7.221	33972136	34556711	9.824	9.770
7) Aldrin	6.769	7.542	39553332	36952424	9.789	9.749
8) Heptachlo...	7.229	7.979	35561831	33689906	9.630	9.385
9) trans-Chl...	7.325	8.119	36451101	34945337	9.693	9.398
10) cis-Chlor...	7.423	8.226	34569322	32046693	9.414	9.097
11) Endosulfa...	7.518	8.277	34748038	30647883	10.018	9.273
12) 4,4'-DDE	7.491	8.332	32072763	30195241	9.658	9.610
13) Dieldrin	7.691	8.478	37298305	34982484	9.781	9.885
14) Endrin	7.854	8.706	31349018	29160503	9.606	9.986
15) 4,4'-DDD	7.912	8.749	24259195	22757929	9.532	9.551
16) Endosulfa...	8.012	8.854	28189352	25937677	9.423	9.643
17) 4,4'-DDT	8.108	8.975	24692282	25132611	9.185	9.980
18) Endrin Al...	8.302	9.090	25111118	23622312	9.538	8.935
19) Endosulfa...	8.604	9.282	27042784	25036220	9.448	9.760
20) Methoxychlor	8.453	9.455	11230884	10865325	9.308	9.661
21) Endrin Ke...	8.797	9.683	32676144	28830661	9.454	9.834
23) Hexachlor...	3.088	3.679	39867	14675	0.010	0.003 #
24) Hexachlor...	5.679	6.464	69319	75162	0.021	BelowCal #
25) Oxychlordane	7.163	7.907	264637	34565	BelowCal	0.011
26) 2,4'-DDE	7.229	8.119	35561831	34945337	15.381	15.374
27) trans-Non...	7.423	8.175	34569322	268385	9.429	0.074 #
28) 2,4'-DDD	7.607	8.478	166784	34982484	0.086	18.274 #
29) 2,4'-DDT	7.795	8.706	198510	29160503	0.083	13.315 #
30) cis-Nonac...	7.912f	8.749	24259195	22757929	5.961	5.711
31) Mirex	8.548	9.683	148113	28830661	8199.068	13.586 #
32) Chlordane...	7.325	8.119	36451101	34945337	91.019	80.431
33) Chlordane...	7.423	8.226	34569322	32046693	71.082	88.148
34) Chlordane...	0.000	8.904	0	1082594	N.D.	9.116 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.423f	8.478f	34569322	34982484	2111.825	1187.096 #
37) Toxaphene...	7.691	0.000	37298305	0	1187.261	N.D. #
38) Toxaphene...	8.012	8.854	28189352	25937677	398.932	400.914
39) Toxaphene...	8.223f	8.904	1161363	1082594	10.961	7.070 #
40) Toxaphene...	8.453	9.090	11230884	23622312	207.203	412.047 #
41) Toxaphene...	8.548	9.455	148113	10865325	1.947	164.492 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012010.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:50
 Operator : MJB
 Sample : 0B01012-CAL6
 Misc : A19K132, AB 25 ppb
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:48:20 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

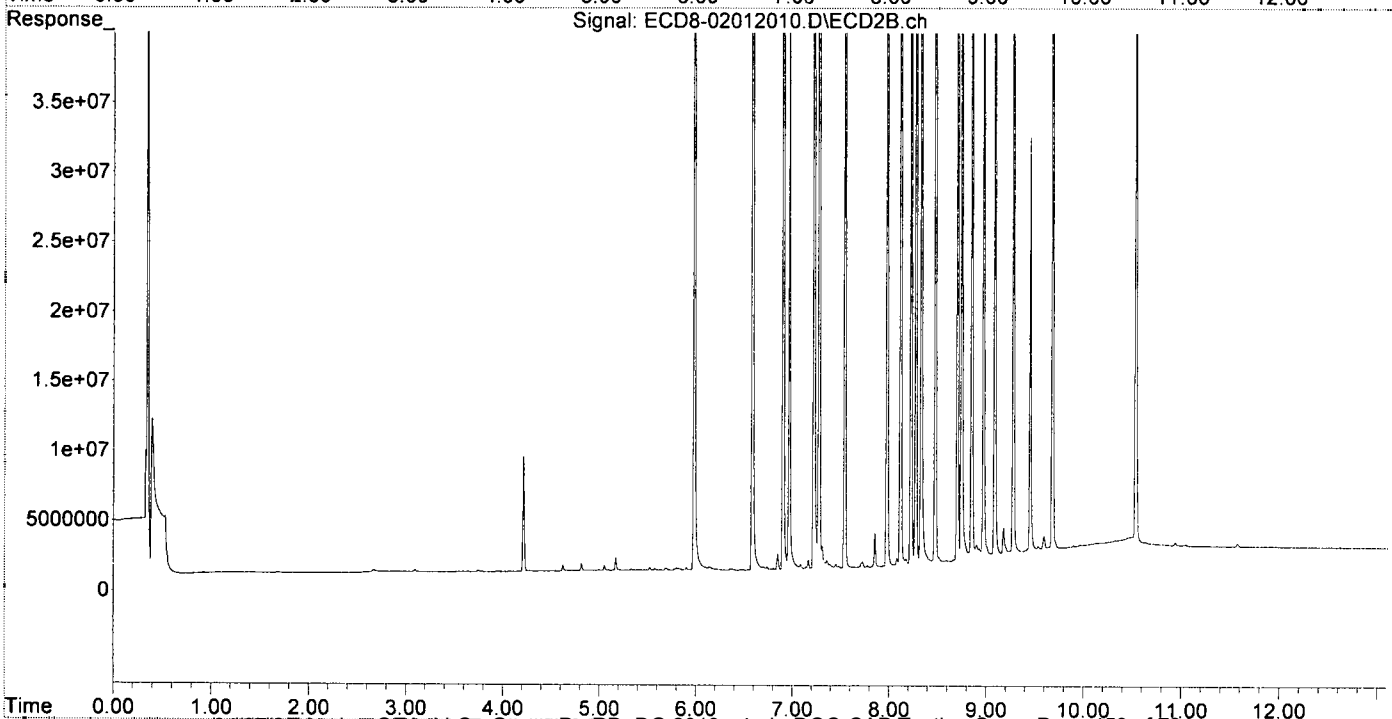
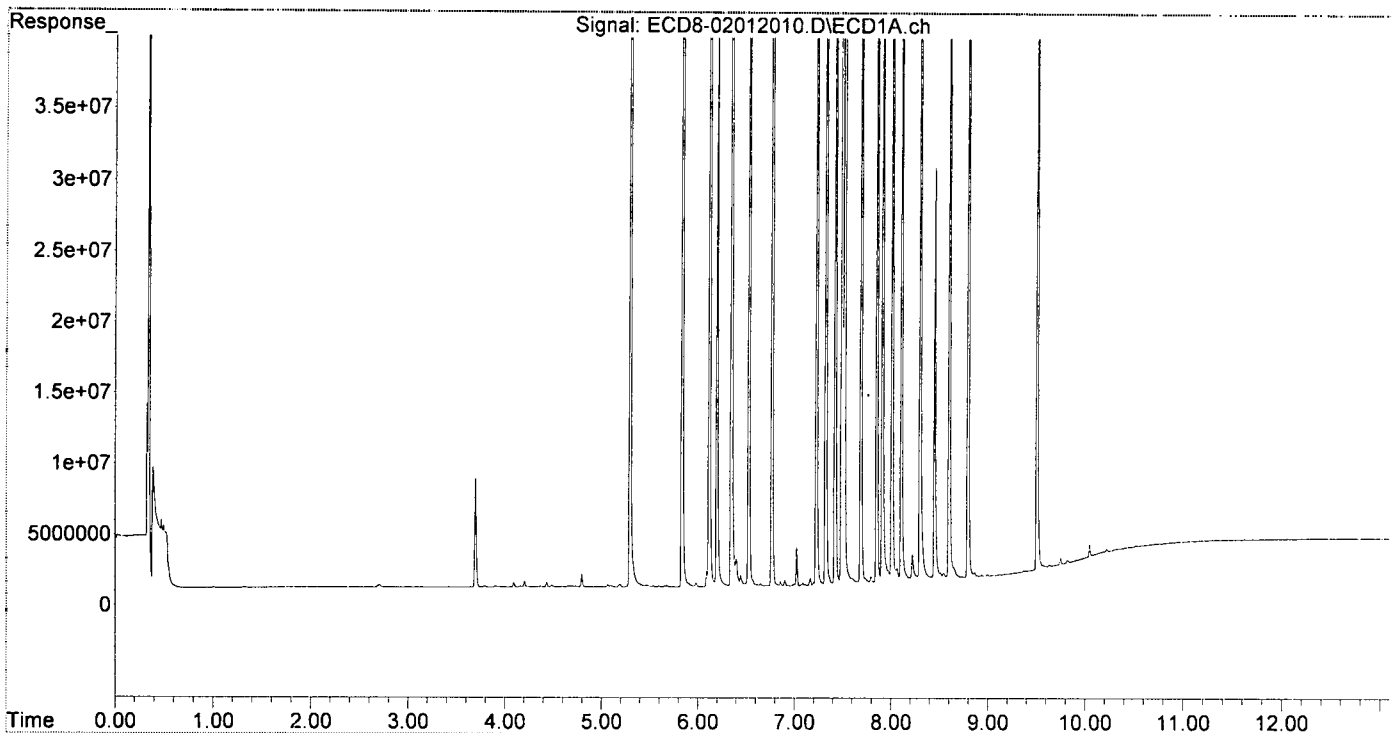
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	85829808	85149324	24.550	24.684
22) S DCBP (S)	9.507	10.537	66452642	54017910	25.390	25.564
Target Compounds						
2) a-BHC	5.836	6.583	121.6E6	119.2E6	25.743	26.638
3) g-BHC	6.118	6.901	105.7E6	107.9E6	25.393	26.571
4) b-BHC	6.197	6.966	43268809	42826341	24.844	24.669
5) Heptachlor	6.529	7.274	103.8E6	104.5E6	25.247	24.811
6) d-BHC	6.345	7.220	93700875	100.9E6	26.377	27.360
7) Aldrin	6.768	7.541	101.9E6	103.3E6	25.224	26.577
8) Heptachlo...	7.229	7.978	90603826	90693091	24.535	25.265
9) trans-Chl...	7.325	8.118	92344635	94107374	24.556	25.309
10) cis-Chlor...	7.422	8.225	91013817	90991019	24.784	25.830
11) Endosulfa...	7.518	8.277	85444422	85653357	24.633	25.916
12) 4,4'-DDE	7.490	8.331	82679641	86764148	24.898	26.554
13) Dieldrin	7.690	8.477	95868803	95883928	25.140	26.411
14) Endrin	7.854	8.706	82858624	79399830	25.388	26.501
15) 4,4'-DDD	7.911	8.749	63377806	65177226	24.903	26.133
16) Endosulfa...	8.011	8.853	73342261	73030196	24.516	26.411
17) 4,4'-DDT	8.108	8.975	68097447	70533268	25.332	26.908
18) Endrin Al...	8.302	9.089	61776811	60959956	23.466	23.058
19) Endosulfa...	8.603	9.281	70013419	70158024	24.462	26.695
20) Methoxychlor	8.452	9.454	28980569	30163827	24.018	26.360
21) Endrin Ke...	8.797	9.683	85585307	79449385	24.761	26.668
23) Hexachlor...	3.076	3.678	12851	13752	0.003	0.003
24) Hexachlor...	5.680	6.465	126605	71517	0.038	BelowCal #
25) Oxychlordane	7.165	7.903	529717	44577	BelowCal	0.014
26) 2,4'-DDE	7.229	8.118	90603826	94107374	39.187	41.402
27) trans-Non...	7.422	8.176	91013817	455515	24.825	0.126 #
28) 2,4'-DDD	7.607	8.477	330367	95883928	0.171	50.089 #
29) 2,4'-DDT	7.795	8.706	433808	79399830	0.181	34.931 #
30) cis-Nonac...	7.911f	8.749	63377806	65177226	15.574	16.355
31) Mirex	8.546	9.683	370318	79449385	8198.976	37.402 #
32) Chlordane...	7.325	8.118	92344635	94107374	230.585	216.600
33) Chlordane...	7.422	8.225	91013817	90991019	187.145	250.281 #
34) Chlordane...	7.972	8.903	775608	1271614	5.957	10.708 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.422f	8.477f	91013817	95883928	5559.995	3253.726 #
37) Toxaphene...	7.690	0.000	95868803	0	3051.647	N.D. #
38) Toxaphene...	8.011	8.853	73342261	73030196	1050.109	1128.814
39) Toxaphene...	8.223f	8.903	1815696	1271614	21.046	9.033 #
40) Toxaphene...	8.452	9.089	28980569	60959956	534.674	1063.332 #
41) Toxaphene...	8.546	9.454	370318	30163827	4.869	456.655 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:07
 Operator : MJB
 Sample : 0B01012-CAL7
 Misc : A19K133, AB 50 ppb
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:48:30 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

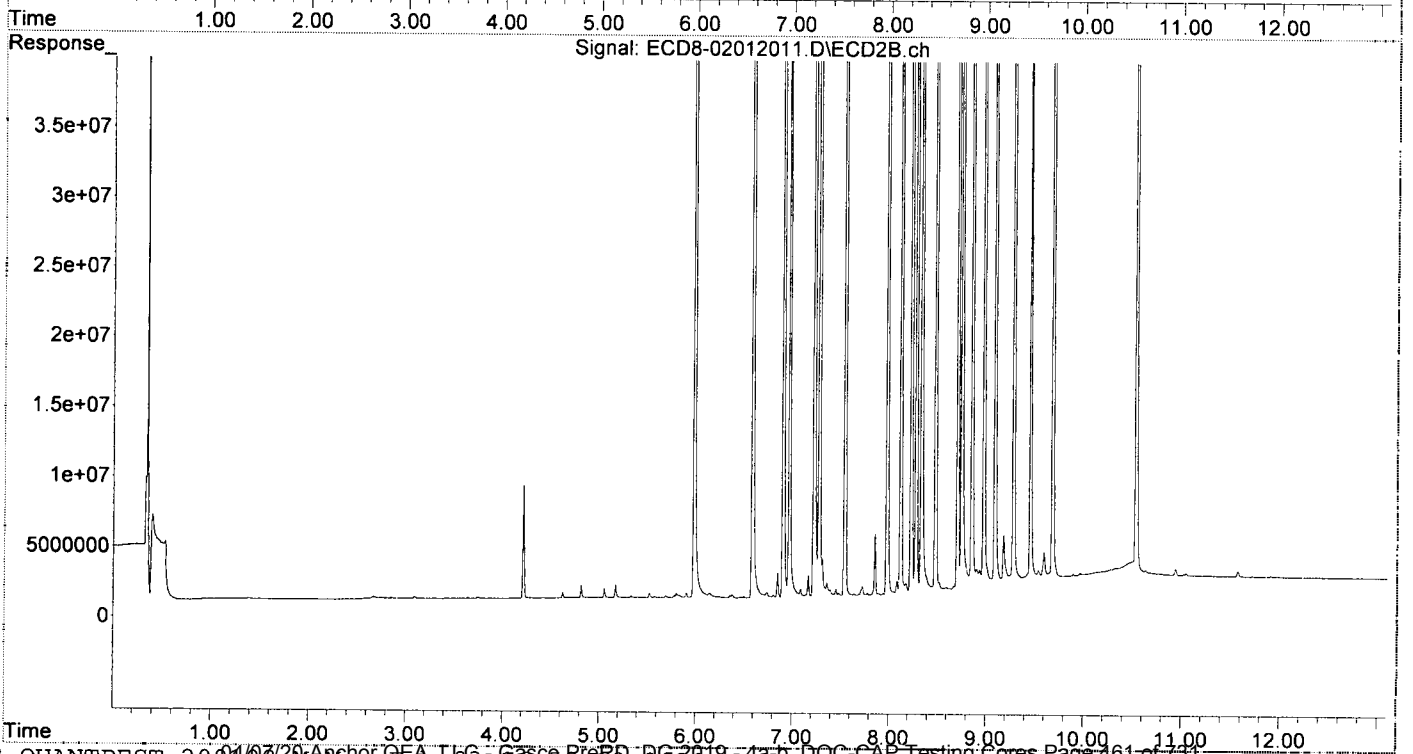
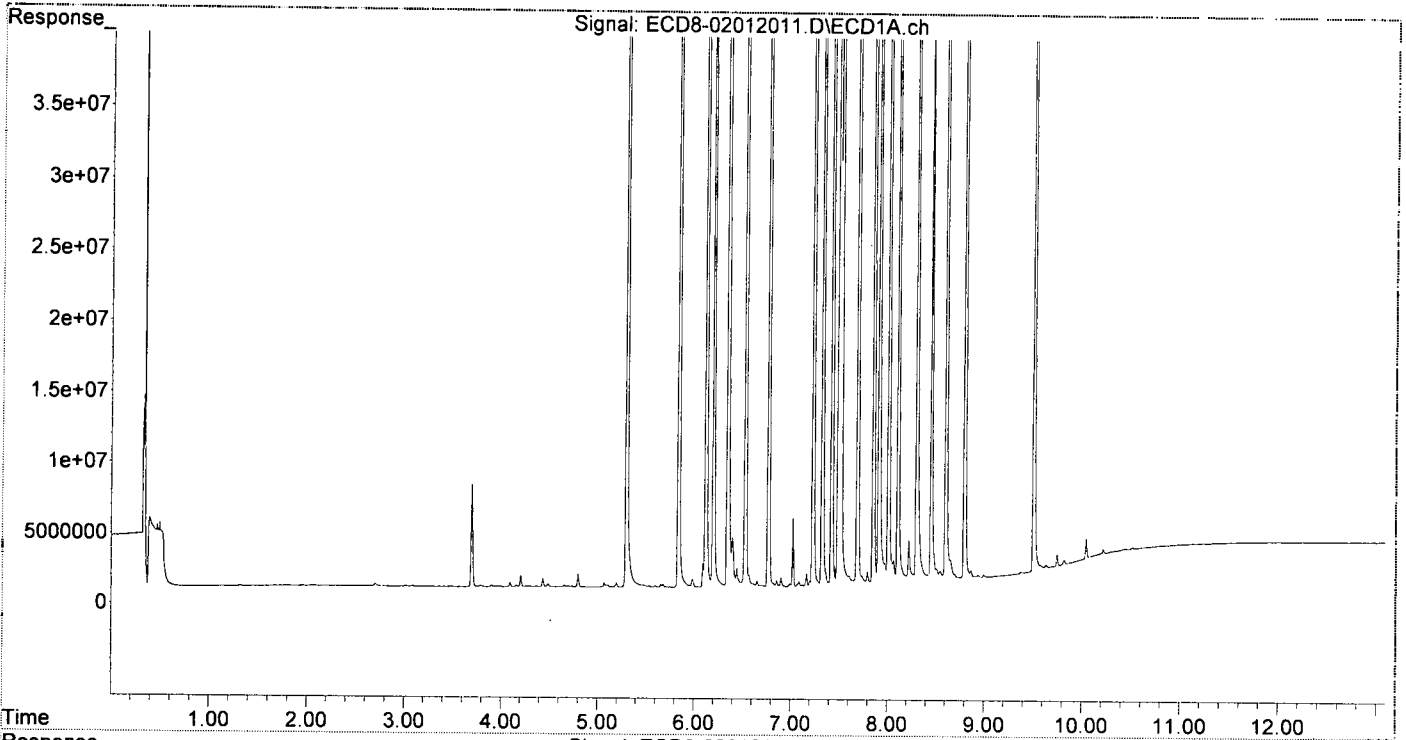
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	160.2E6	168.3E6	45.821	48.785
22) S DCBP (S)	9.507	10.537	123.4E6	103.8E6	46.953	48.422
Target Compounds						
2) a-BHC	5.837	6.585	224.9E6	233.3E6	47.596	49.927
3) g-BHC	6.119	6.902	203.3E6	211.8E6	48.823	50.337
4) b-BHC	6.197	6.966	81866401	85296235	47.005	49.132
5) Heptachlor	6.529	7.276	192.3E6	210.9E6	46.784	50.081
6) d-BHC	6.346	7.221	182.4E6	192.9E6	49.846	49.955
7) Aldrin	6.769	7.542	195.5E6	195.8E6	48.375	48.819
8) Heptachlo...	7.230	7.979	168.2E6	178.9E6	45.535	49.840
9) trans-Chl...	7.326	8.119	181.3E6	181.2E6	48.222	48.738
10) cis-Chlor...	7.423	8.226	167.4E6	173.0E6	45.590	49.120
11) Endosulfa...	7.518	8.277	163.9E6	167.4E6	47.263	50.662
12) 4,4'-DDE	7.490	8.332	168.0E6	175.2E6	50.591	51.112
13) Dieldrin	7.691	8.478	179.5E6	192.1E6	47.067	51.122
14) Endrin	7.854	8.706	155.0E6	154.0E6	47.508	49.608
15) 4,4'-DDD	7.910	8.748	125.3E6	136.5E6	49.237	51.398
16) Endosulfa...	8.011	8.854	141.9E6	146.2E6	47.418	50.735
17) 4,4'-DDT	8.109	8.975	134.8E6	138.4E6	50.144	50.032
18) Endrin Al...	8.302	9.090	118.6E6	123.5E6	45.036	46.706
19) Endosulfa...	8.603	9.281	133.9E6	135.1E6	46.769	49.502
20) Methoxychlor	8.452	9.453	56743855	60278479	47.026	50.142
21) Endrin Ke...	8.797	9.682	159.8E6	156.7E6	46.229	50.674
23) Hexachlor...	3.088	3.679	34907	16213	0.009	0.003 #
24) Hexachlor...	5.680	6.465	244410	68152	0.073	BelowCal #
25) Oxychlordane	7.167	7.887	881658	95004	0.107	0.030 #
26) 2,4'-DDE	7.230	8.119	168.2E6	181.2E6	72.728	79.730
27) trans-Non...	7.423	8.176	167.4E6	698128	45.666	0.193 #
28) 2,4'-DDD	7.607	8.478	575225	192.1E6	0.297	100.369 #
29) 2,4'-DDT	7.795	8.706	805485	154.0E6	0.337	64.391 #
30) cis-Nonac...	7.910f	8.748	125.3E6	136.5E6	30.792	34.245
31) Mirex	8.544	9.682	582639	156.7E6	0.034	72.674 #
32) Chlordane...	7.326	8.119	181.3E6	181.2E6	452.809	417.118
33) Chlordane...	7.423	8.226	167.4E6	173.0E6	344.253	475.953 #
34) Chlordane...	7.973	8.904	1354346	1354651	10.402	11.407
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.423f	8.478f	167.4E6	192.1E6	10227.614	6519.912 #
37) Toxaphene...	7.691	0.000	179.5E6	0	5713.243	N.D. #
38) Toxaphene...	8.011	8.854	141.9E6	146.2E6	2055.651	2259.027
39) Toxaphene...	8.222f	8.904	2868899	1354651	37.273	9.896 #
40) Toxaphene...	8.452	9.090	56743855	123.5E6	1046.889	2153.826 #
41) Toxaphene...	8.544	9.453	582639	60278479	7.661	912.566 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:30 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:24
 Operator : MJB
 Sample : 0B01012-CAL8
 Misc : A19K134, AB 100 ppb
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:48:39 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

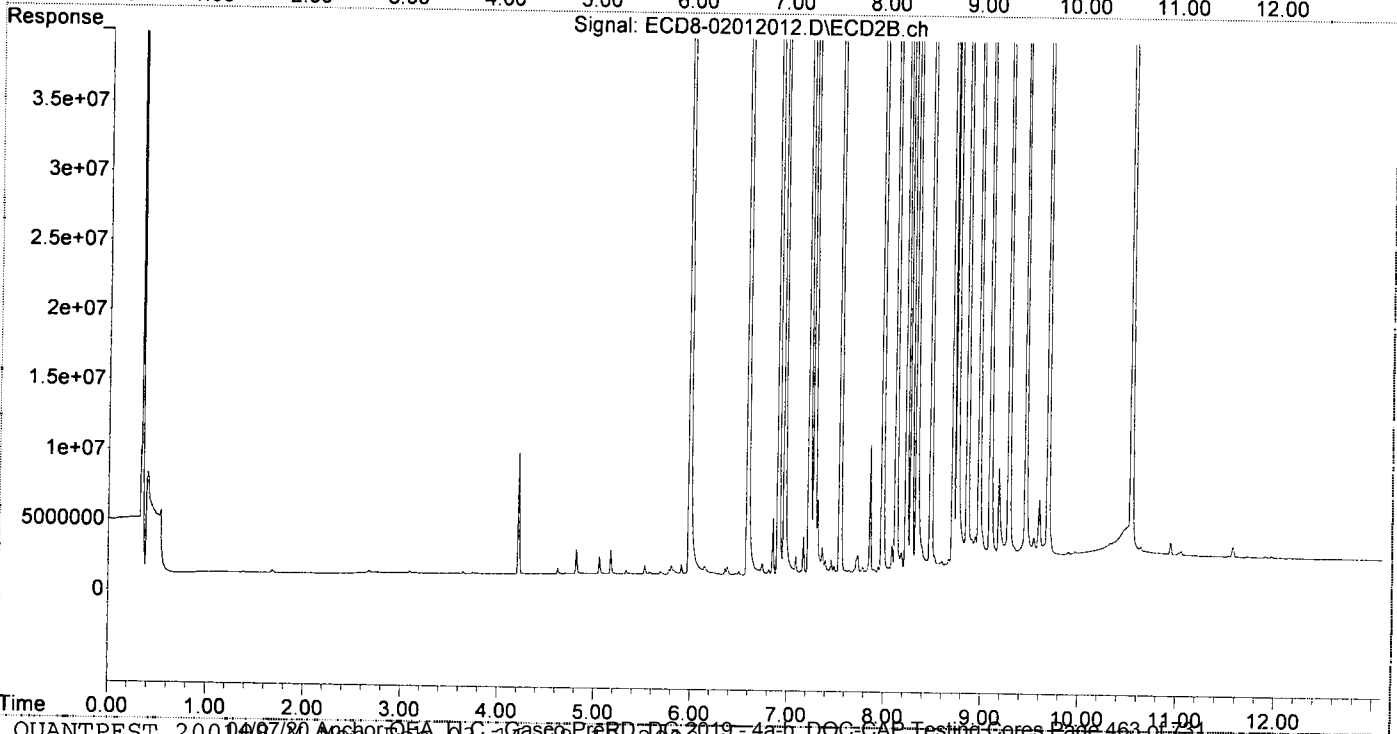
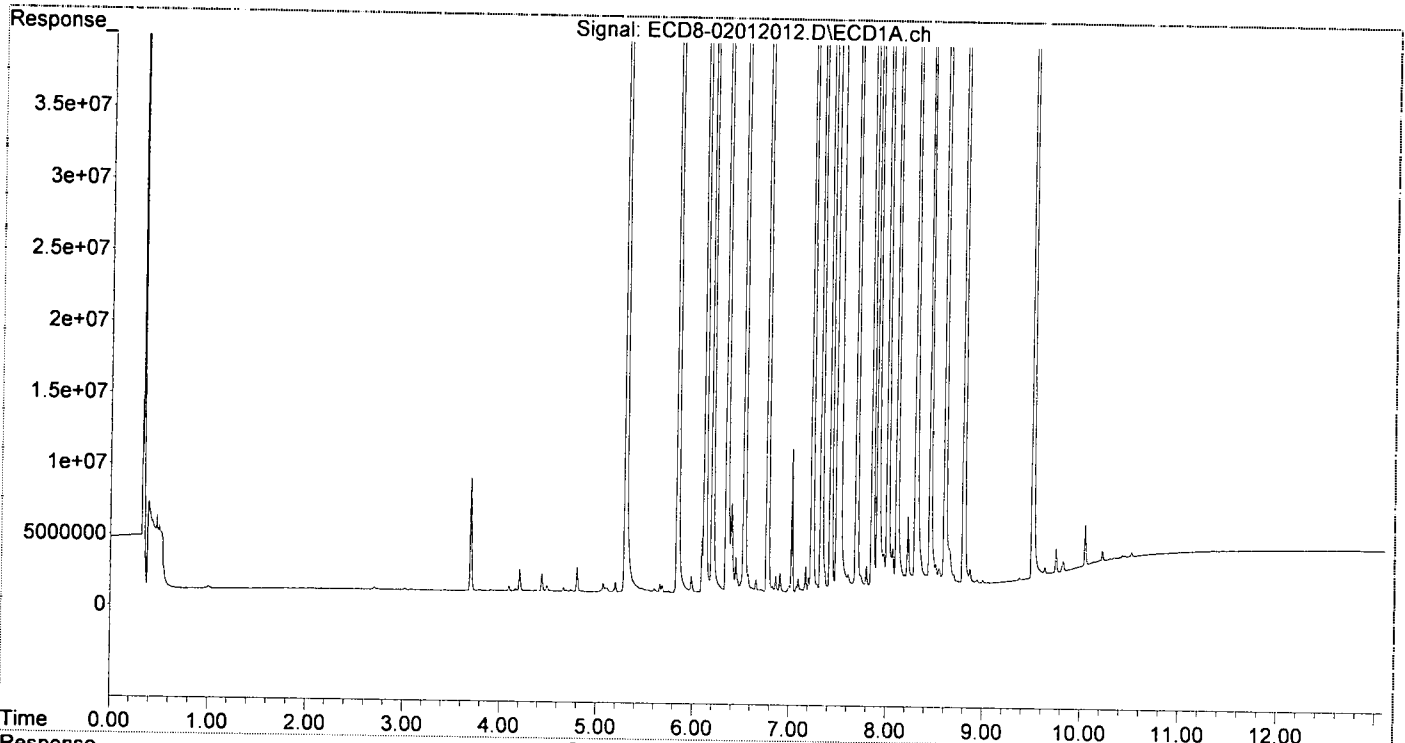
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.982	355.4E6	386.4E6	101.662	112.028
22) S DCBP (S)	9.507	10.537	280.1E6	240.0E6	104.273	106.329
Target Compounds						
2) a-BHC	5.837	6.585	509.4E6	553.7E6	107.818	107.465
3) g-BHC	6.120	6.902	435.9E6	491.3E6	104.706	107.679
4) b-BHC	6.197	6.966	185.8E6	196.8E6	106.682	113.366
5) Heptachlor	6.529	7.276	416.3E6	477.0E6	101.286	113.274
6) d-BHC	6.345	7.221	419.9E6	472.2E6	107.406	109.655
7) Aldrin	6.769	7.542	420.9E6	472.0E6	104.171	108.641
8) Heptachlo...	7.229	7.979	380.6E6	404.3E6	103.077	112.616
9) trans-Chl...	7.325	8.119	392.8E6	432.7E6	104.440	116.358
10) cis-Chlor...	7.422	8.226	377.5E6	395.1E6	102.792	112.151
11) Endosulfa...	7.517	8.277	349.5E6	392.5E6	100.755	118.767
12) 4,4'-DDE	7.489	8.331	378.7E6	405.9E6	114.052	107.249
13) Dieldrin	7.690	8.478	402.8E6	425.1E6	105.631	105.342
14) Endrin	7.854	8.706	338.4E6	354.5E6	103.699	105.353
15) 4,4'-DDD	7.909	8.747	297.7E6	330.1E6	116.957	109.252
16) Endosulfa...	8.010	8.853	331.9E6	341.9E6	110.942	108.308
17) 4,4'-DDT	8.108	8.975	298.8E6	340.3E6	111.153	108.537
18) Endrin Al...	8.301	9.090	258.6E6	290.0E6	98.229	109.684
19) Endosulfa...	8.603	9.281	304.5E6	315.4E6	106.371	105.752
20) Methoxychlor	8.450	9.453	133.1E6	149.0E6	110.323	109.548
21) Endrin Ke...	8.797	9.683	366.8E6	363.7E6	106.117	107.516
23) Hexachlor...	3.086	3.680	47052	14977	0.012	0.003 #
24) Hexachlor...	5.679	6.439	515767	48762	0.153	BelowCal #
25) Oxychlordane	7.166	7.903	1730960	151616	0.384	0.047 #
26) 2,4'-DDE	7.229	8.119	380.6E6	432.7E6	164.632	190.349
27) trans-Non...	7.422	8.176	377.5E6	1355571	102.963	0.376 #
28) 2,4'-DDD	7.607	8.478	1050133	425.1E6	0.542	222.092 #
29) 2,4'-DDT	7.793	8.706	1558722	354.5E6	0.651	132.841 #
30) cis-Nonac...	7.909f	8.747	297.7E6	330.1E6	73.144	82.821
31) Mirex	8.543	9.683	1156298	363.7E6	0.271	161.513 #
32) Chlordane...	7.325	8.119	392.8E6	432.7E6	980.700	995.831
33) Chlordane...	7.422	8.226	377.5E6	395.1E6	776.186	1086.691 #
34) Chlordane...	7.972	8.900	2415995	2205038	18.556	18.568
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.422f	8.478f	377.5E6	425.1E6	23060.121	14426.951 #
37) Toxaphene...	7.690	0.000	402.8E6	0	12822.085	N.D. #
38) Toxaphene...	8.010	8.853	331.9E6	341.9E6	4966.478	5284.613
39) Toxaphene...	8.221f	8.900	4920371	2205038	68.867	18.721 #
40) Toxaphene...	8.450f	9.090	133.1E6	290.0E6	2455.995	5058.068 #
41) Toxaphene...	8.543	9.453	1156298	149.0E6	15.204	2255.841 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012012.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:24
Operator : MJB
Sample : 0B01012-CAL8
Misc : A19K134, AB 100 ppb
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:39 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:41
 Operator : MJB
 Sample : 0B01012-CAL9
 Misc : A19K126, AB 200 ppb
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:48:52 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

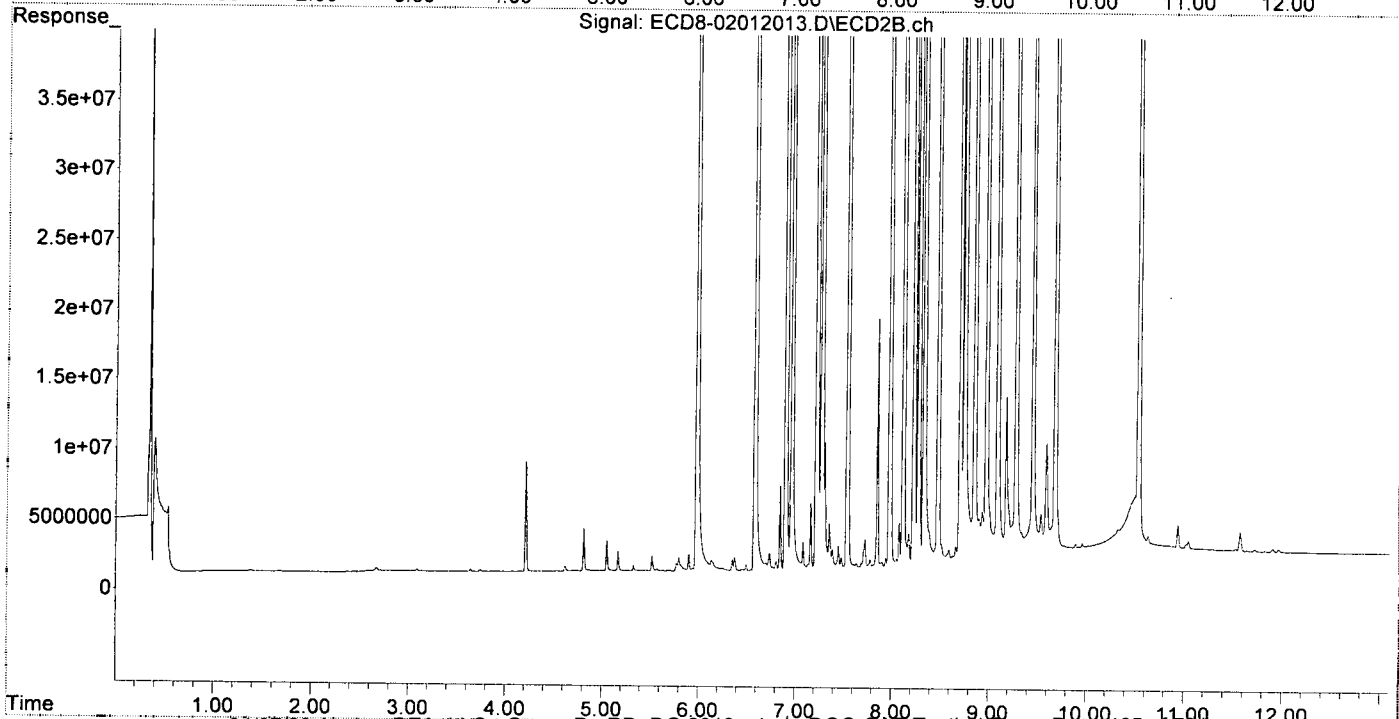
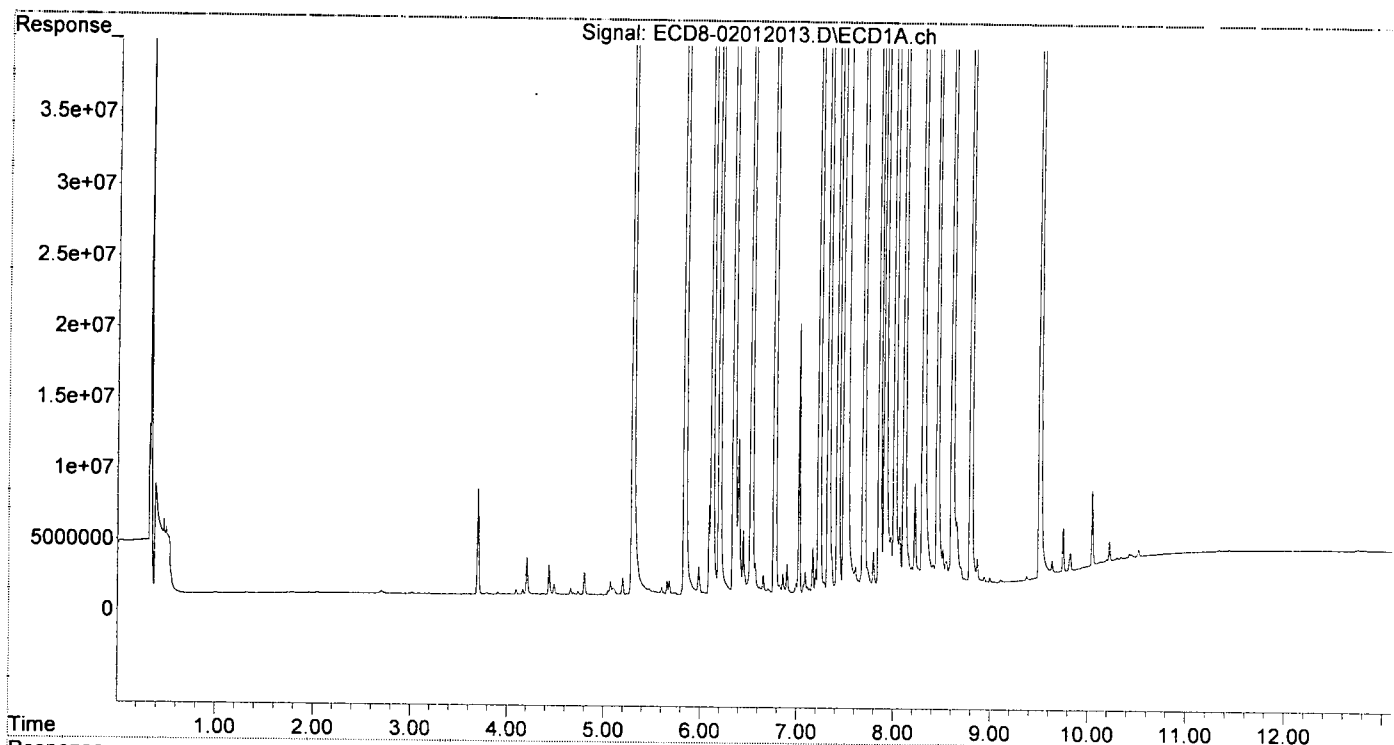
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	683.0E6	808.5E6	195.366	234.378
22) S DCBP (S)	9.507	10.537	554.4E6	477.6E6	198.363	195.289
Target Compounds						
2) a-BHC	5.837	6.585	1000.4E6	1133.4E6	211.739	193.275
3) g-BHC	6.119	6.902	881.5E6	980.3E6	211.716	192.751
4) b-BHC	6.196	6.965	344.6E6	391.9E6	197.840	225.731
5) Heptachlor	6.529	7.275	827.5E6	966.0E6	201.350	229.415
6) d-BHC	6.344	7.220	826.3E6	939.7E6	193.127	191.350
7) Aldrin	6.768	7.542	802.5E6	928.8E6	198.603	192.949
8) Heptachlo...	7.229	7.979	732.6E6	788.7E6	198.384	219.719
9) trans-Chl...	7.325	8.119	764.5E6	821.8E6	203.287	221.020
10) cis-Chlor...	7.422	8.226	729.7E6	792.8E6	198.698	225.050
11) Endosulfa...	7.517	8.277	669.0E6	733.7E6	192.854	222.006
12) 4,4'-DDE	7.488	8.331	725.7E6	835.1E6	218.544	192.970
13) Dieldrin	7.690	8.478	786.9E6	871.2E6	206.356	194.082
14) Endrin	7.854	8.705	655.2E6	738.6E6	200.748	195.142
15) 4,4'-DDD	7.909	8.749	592.3E6	679.7E6	232.738	191.866
16) Endosulfa...	8.011	8.853	596.6E6	684.8E6	199.444	192.330
17) 4,4'-DDT	8.108	8.975	627.2E6	706.5E6	233.304	192.640
18) Endrin Al...	8.301	9.090	520.7E6	585.1E6	197.778	221.305
19) Endosulfa...	8.603	9.281	590.5E6	660.6E6	206.312	194.929
20) Methoxychlor	8.450	9.453	273.2E6	304.3E6	226.447	192.101
21) Endrin Ke...	8.797	9.683	708.8E6	737.0E6	205.066	192.732
23) Hexachlor...	3.085	3.679	47773	26074	0.012	0.005 #
24) Hexachlor...	5.679	6.457	964328	108256	0.287	BelowCal #
25) Oxychlorane	7.165	7.903	3131171	344130	0.840	0.108 #
26) 2,4'-DDE	7.229	8.119	732.6E6	821.8E6	316.854	361.565
27) trans-Non...	7.422	8.177	729.7E6	2322130	199.027	0.643 #
28) 2,4'-DDD	7.607	8.478	1629132	871.2E6	0.841	455.089 #
29) 2,4'-DDT	7.792	8.705	2633301	738.6E6	1.100	238.485 #
30) cis-Nonac...	7.909f	8.749	592.3E6	679.7E6	145.551	170.546
31) Mirex	8.547	9.683	1677558	737.0E6	0.486	305.698 #
32) Chlordane...	7.325	8.119	764.5E6	821.8E6	1908.890	1891.572
33) Chlordane...	7.422	8.226	729.7E6	792.8E6	1500.369	2180.621 #
34) Chlordane...	7.971	8.900	3592037	3270989	27.589	27.544
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.422f	8.478f	729.7E6	871.2E6	44575.283	29562.245 #
37) Toxaphene...	7.690	0.000	786.9E6	0	25048.714	N.D. #
38) Toxaphene...	8.011	8.853	596.6E6	684.8E6	9382.458	10584.537
39) Toxaphene...	8.263	8.900	1249823	3270989	12.325	29.766 #
40) Toxaphene...	8.450f	9.090	273.2E6	585.1E6	5041.110	10205.432 #
41) Toxaphene...	8.547	9.453	1677558	304.3E6	22.057	4607.332 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:48:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:31
 Operator : MJB
 Sample : 0B01012-CALA
 Misc : A20B003, 9-42 0.5 ppb
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:49:29 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJR
2/3/20

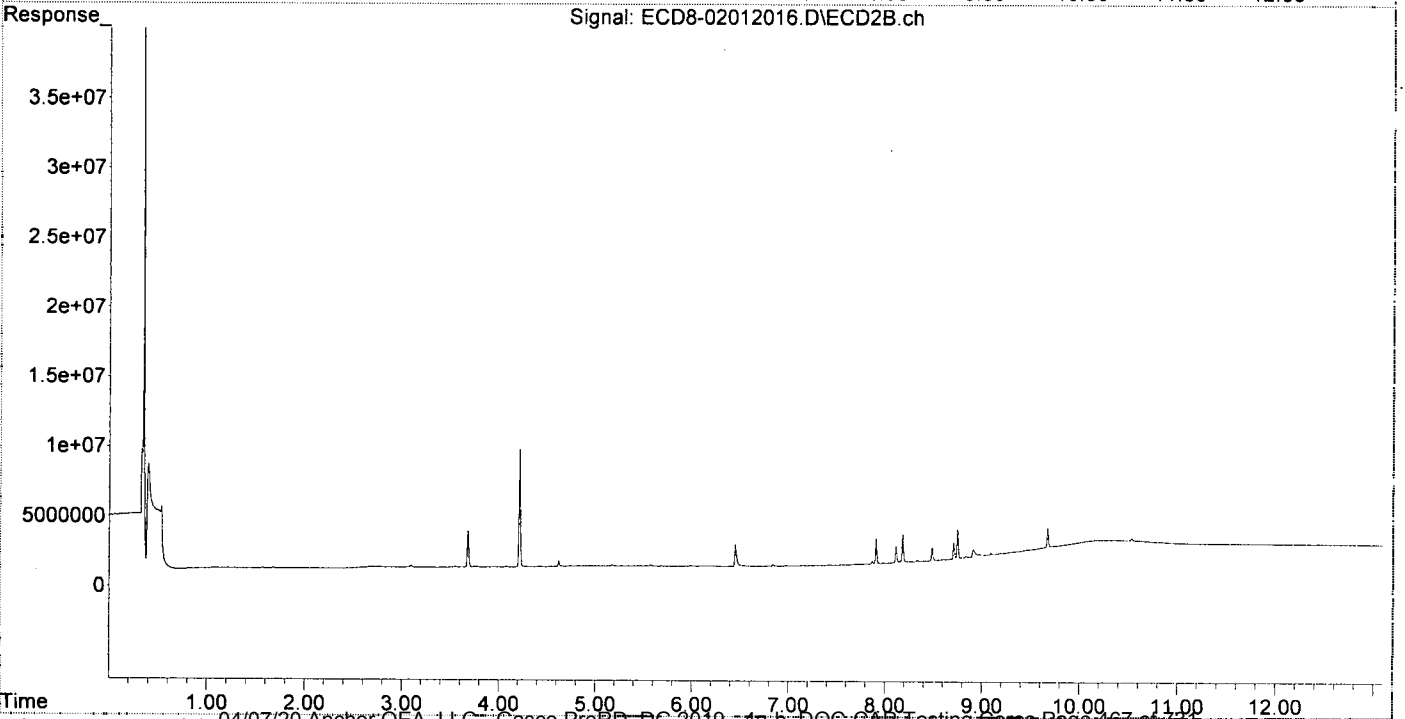
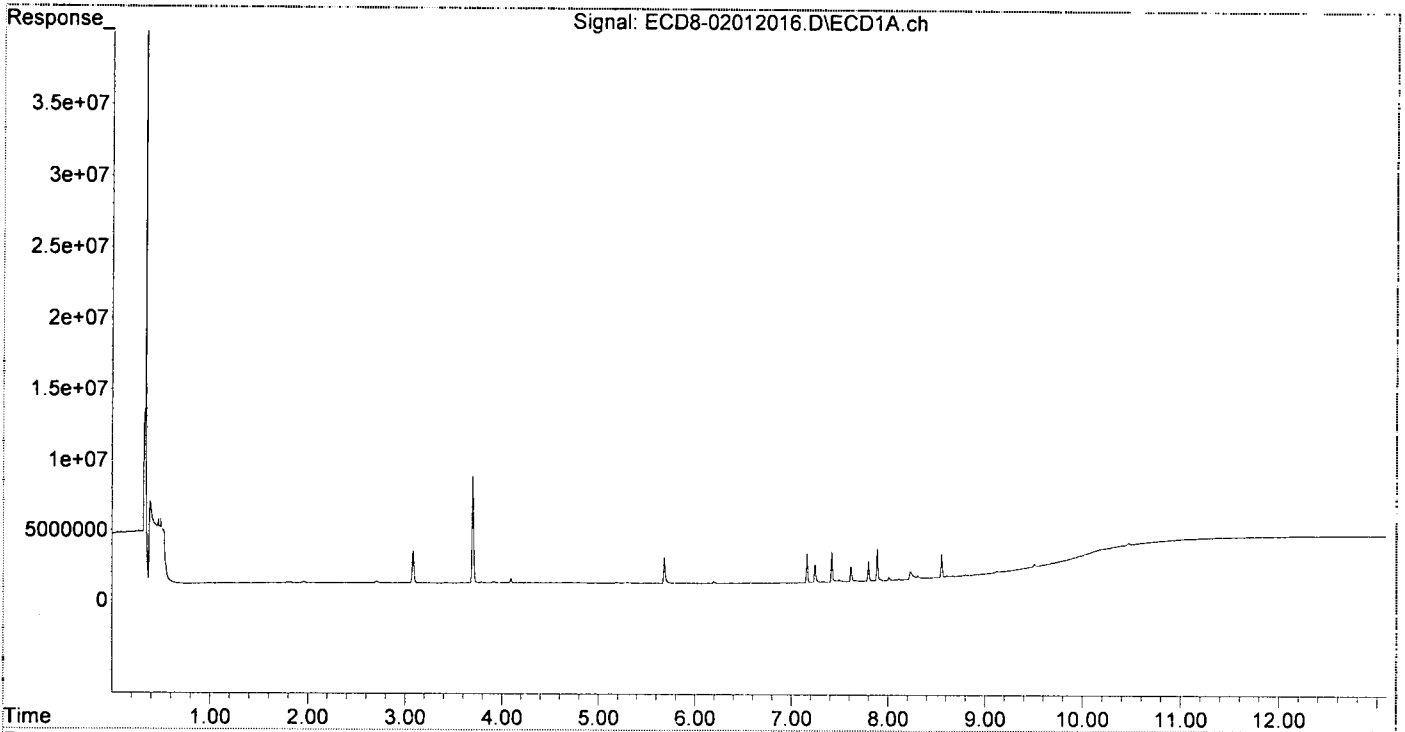
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.299	5.985	68485	103337	0.020	0.030 #
22) S DCBP (S)	9.508	10.537	377603	163698	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.846	6.582	35427	35202	0.007	0.084 #
3) g-BHC	6.146f	6.904	28094	12379	0.007	0.045 #
4) b-BHC	6.193	6.975	143092	58075	0.082	0.033 #
5) Heptachlor	6.531	7.280	17250	20742	0.004	0.005
6) d-BHC	6.357	7.227	20258	37306	0.112	0.108
7) Aldrin	6.775	7.548	10239	18189	0.003	0.017 #
8) Heptachlo...	7.243	7.979	1290069	40076	0.349	0.011 #
9) trans-Chl...	7.327	8.113	59794	1200073	0.016	0.323 #
10) cis-Chlor...	7.417	8.227	2168811	70400	0.591	0.020 #
11) Endosulfa...	7.495f	8.280	168196	39614	0.048	0.012 #
12) 4,4'-DDE	7.495	8.335	168196	125822	0.051	0.129 #
13) Dieldrin	7.694	8.487	42766	960869	0.011	0.307 #
14) Endrin	7.854	8.710	28556	1210132	0.009	0.414 #
15) 4,4'-DDD	7.917	8.749	109926	2084280	0.043	0.934 #
16) Endosulfa...	8.008	8.854	228510	57189	0.076	BelowCal #
17) 4,4'-DDT	8.112	8.975	68721	149567	0.026	0.035 #
18) Endrin Al...	8.305	9.092	231531	174162	0.088	0.066 #
19) Endosulfa...	8.607	9.283	82250	99005	0.029	BelowCal #
20) Methoxychlor	8.460	9.444	20527	73043	0.017	BelowCal #
21) Endrin Ke...	8.799	9.675	76798	1475836	0.022	0.300 #
23) Hexachlor...	3.080	3.680	2278541	2594123	0.585	0.536
24) Hexachlor...	5.681	6.450	1894604	1616133	0.564	0.508
25) Oxychlordane	7.160	7.908	2078442	1817597	0.497	0.568
26) 2,4'-DDE	7.243	8.113	1290069	1200073	0.558	0.528
27) trans-Non...	7.417	8.182	2168811	2004659	0.592	0.555
28) 2,4'-DDD	7.615	8.487	1111537	960869	0.574	0.502
29) 2,4'-DDT	7.797	8.710	1418724	1210132	0.593	0.519
30) cis-Nonac...	7.887	8.749	2296885	2084280	0.564	0.523
31) Mirex	8.552	9.675	1693083	1475836	0.493	0.461
32) Chlordane...	7.327	8.113	59794	1200073	0.149	2.762 #
33) Chlordane...	7.417	8.227	2168811	70400	4.460	0.194 #
34) Chlordane...	7.982	8.876	14747	7431	0.113	0.063 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.417	8.487f	2168811	960869	132.492	32.606 #
37) Toxaphene...	7.694	8.804	42766	22811	1.361	0.568 #
38) Toxaphene...	8.008	8.834	228510	136988	0.086	2.117 #
39) Toxaphene...	8.229	8.911	543902	552632	1.443	1.562
40) Toxaphene...	8.460	9.092	20527	174162	0.379	3.038 #
41) Toxaphene...	8.552	9.478	1693083	93249	22.262	1.412 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQQUANT\
 Data File : ECD8-02012016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:31
 Operator : MJB
 Sample : 0B01012-CALA
 Misc : A20B003, 9-42 0.5 ppb
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:49:29 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012017.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:48
 Operator : MJB
 Sample : 0B01012-CALB
 Misc : A19K263, 9-42 1 ppb
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:49:45 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJD
2/3/20

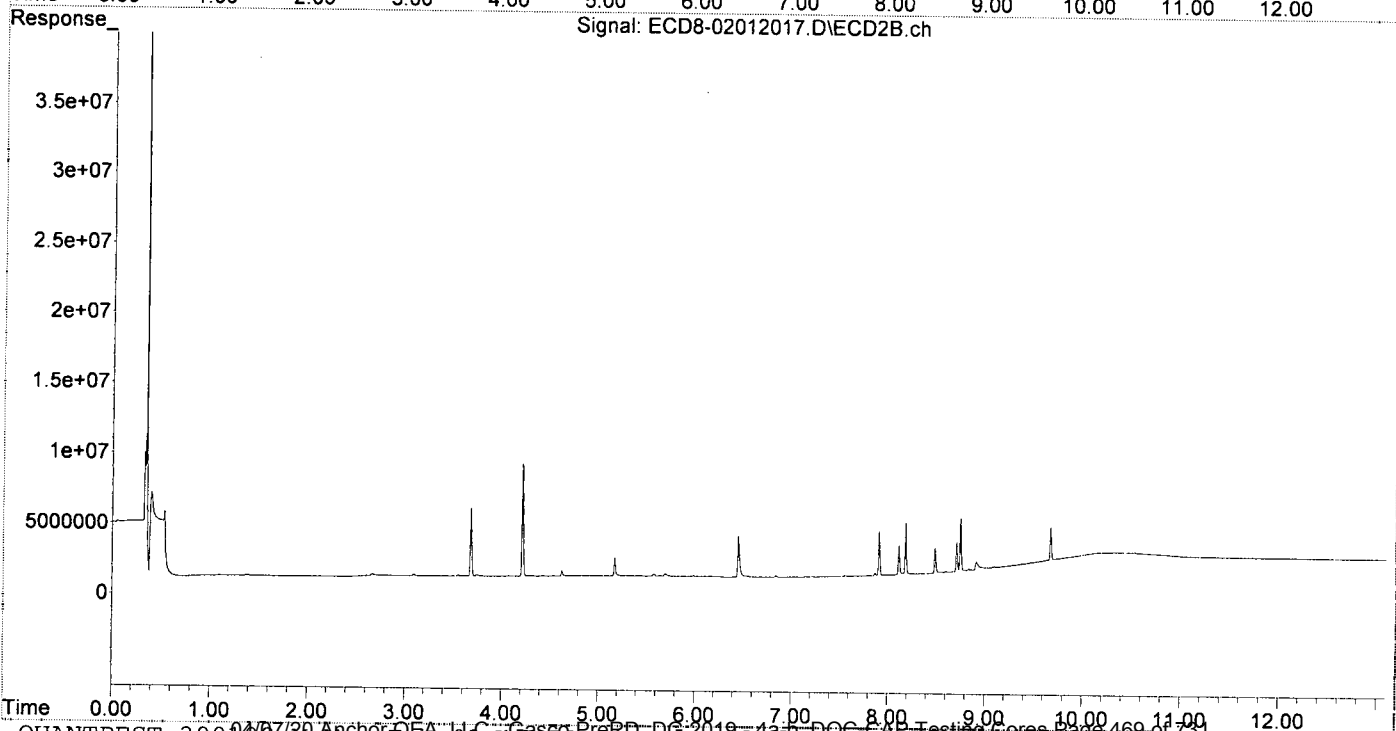
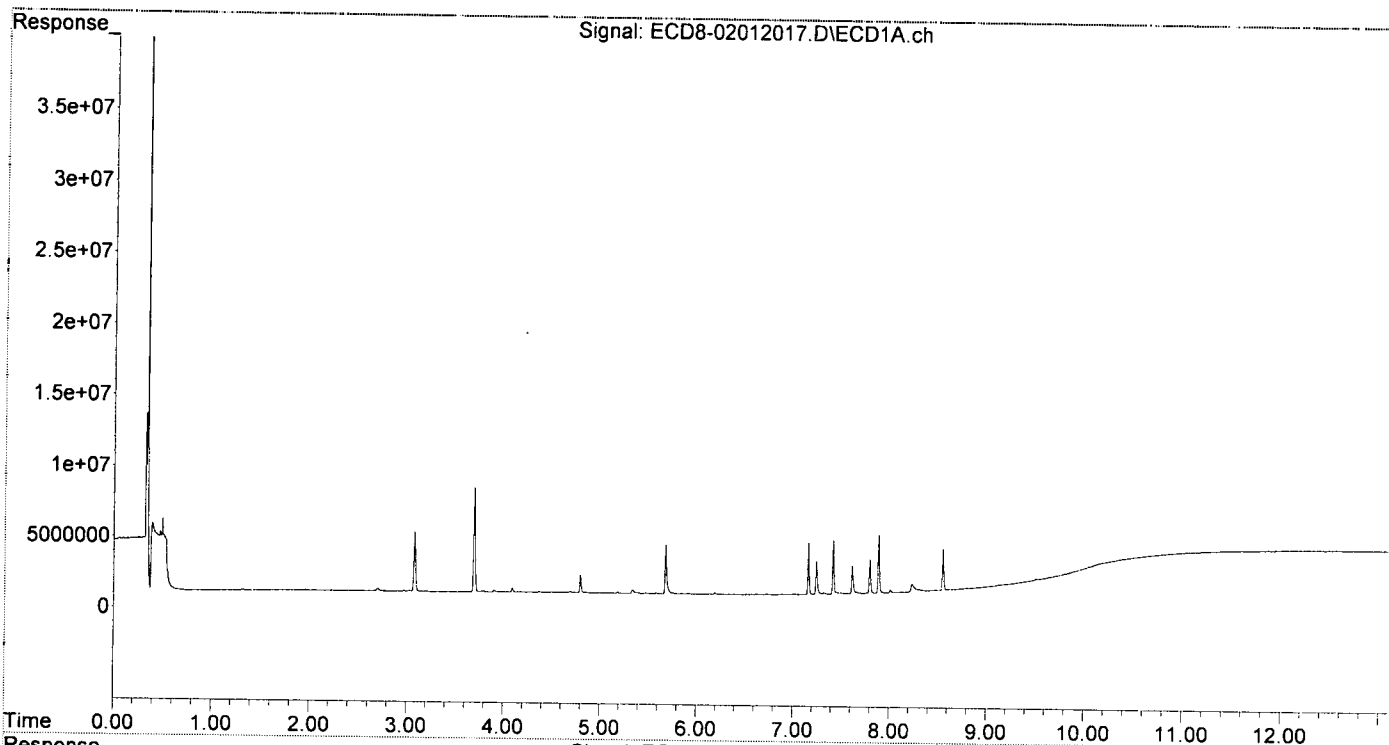
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.337f	5.984	229364	104783	0.066	0.030 #
22) S DCBP (S)	9.508	10.536	256145	681144	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.844	6.579	36088	42418	0.008	0.086 #
3) g-BHC	6.136	6.938f	33688	6890	0.008	0.044 #
4) b-BHC	6.192	6.967	137751	14912	0.079	0.009 #
5) Heptachlor	6.526	7.277	7914	16707	0.002	0.004 #
6) d-BHC	0.000	7.226	0	35191	N.D.	0.108 #
7) Aldrin	0.000	7.557	0	84669	N.D.	0.035 #
8) Heptachlo...	7.243	7.981	2295081	34781	0.621	0.010 #
9) trans-Chl...	7.327	8.112	93035	2104301	0.025	0.566 #
10) cis-Chlor...	7.417	0.000	3768972	0	1.026	N.D. #
11) Endosulfa...	7.490f	8.284	80461	28347	0.023	0.009 #
12) 4,4'-DDE	7.490	8.336	80461	36515	0.024	0.100 #
13) Dieldrin	7.688	8.486	25217	1795089	0.007	0.545 #
14) Endrin	7.852	8.709	24371	2100185	0.007	0.723 #
15) 4,4'-DDD	7.886f	8.748	4089263	3801985	1.607	1.665 #
16) Endosulfa...	8.009	8.857	200043	97288	0.067	0.006 #
17) 4,4'-DDT	8.126	0.000	8508	0	0.003	N.D. #
18) Endrin Al...	8.304	9.092	165249	236794	0.063	0.090 #
19) Endosulfa...	8.605	9.283	50108	268280	0.018	0.018 #
20) Methoxychlor	8.444	0.000	9771	0	0.008	N.D. #
21) Endrin Ke...	8.801	9.674	31647	2854711	0.009	0.789 #
23) Hexachlor...	3.080	3.679	4206156	4878910	1.079	1.008 #
24) Hexachlor...	5.680	6.450	3451879	2946247	1.027	0.971 #
25) Oxychlorthane	7.159	7.908	3626338	3174792	1.001	0.993 #
26) 2,4'-DDE	7.243	8.112	2295081	2104301	0.993	0.926 #
27) trans-Non...	7.417	8.182	3768972	3680280	1.028	1.020 #
28) 2,4'-DDD	7.614	8.486	1934222	1795089	0.999	0.938 #
29) 2,4'-DDT	7.796	8.709	2374152	2100185	0.992	0.936 #
30) cis-Nonac...	7.886	8.748	4089263	3801985	1.005	0.954 #
31) Mirex	8.552	9.674	2918797	2854711	0.999	1.127 #
32) Chlordane...	7.327	8.112	93035	2104301	0.232	4.843 #
33) Chlordane...	7.417	0.000	3768972	0	7.750	N.D. #
34) Chlordane...	7.969	8.911f	12864	628571	0.099	5.293 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D. #
36) Toxaphene...	7.417	8.486f	3768972	1795089	230.245	60.915 #
37) Toxaphene...	7.688	8.794	25217	83988	0.803	2.090 #
38) Toxaphene...	8.009	8.833	200043	184780	96751.095	2.856 #
39) Toxaphene...	8.231	8.911	549160	628571	1.524	2.352 #
40) Toxaphene...	8.466	9.092	12477	236794	0.230	4.130 #
41) Toxaphene...	8.552	0.000	2918797	0	38.378	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012018.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:05
 Operator : MJB
 Sample : 0B01012-CALC
 Misc : A19K264, 9-42 2 ppb
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:49:58 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DüaleCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

NR
2/3/20

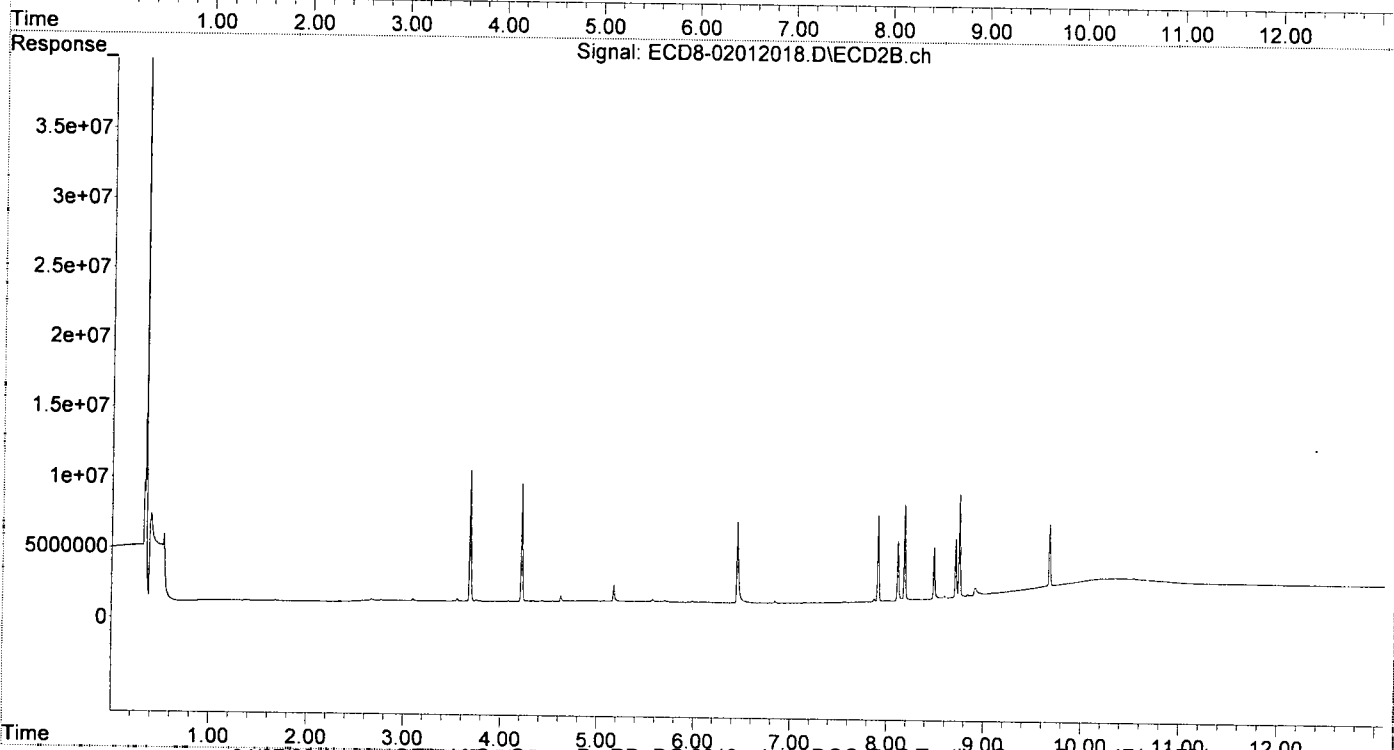
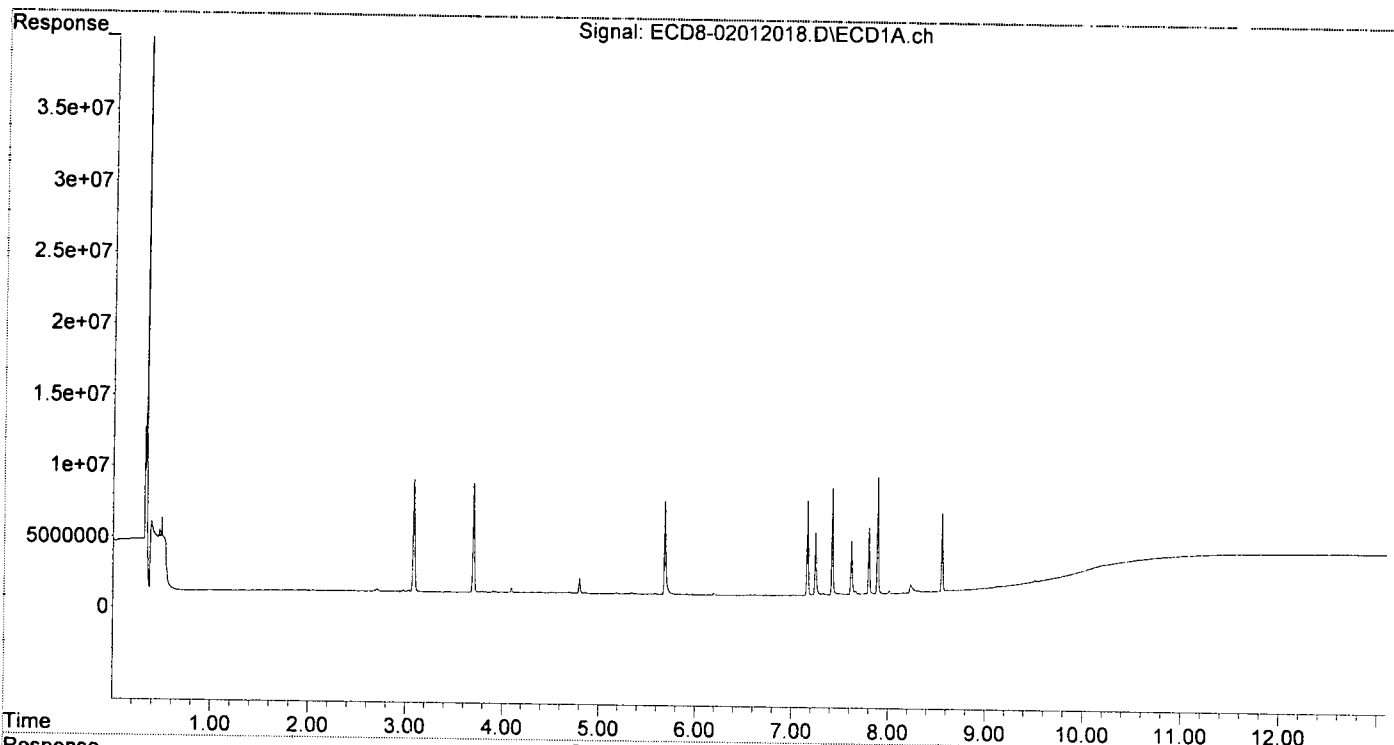
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.299	5.983	19602	101756	0.006	0.029 #
22) S DCBP (S)	9.506	10.538	109381	596649	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.841	6.584	55246	56316	0.012	0.089 #
3) g-BHC	6.138	6.904	39150	10198	0.009	0.045 #
4) b-BHC	6.189	6.970	159134	16074	0.091	0.009 #
5) Heptachlor	6.529	7.273	21454	20040	0.005	0.005 #
6) d-BHC	0.000	7.224	0	30748	N.D.	0.106 #
7) Aldrin	0.000	7.557	0	61303	N.D.	0.028 #
8) Heptachlo...	7.241	7.981	4488919	38565	1.216	0.011 #
9) trans-Chl...	7.326	8.112	113780	4260806	0.030	1.146 #
10) cis-Chlor...	7.416	0.000	7569675	0	2.061	N.D. #
11) Endosulfa...	7.492f	8.290	75226	31629	0.022	0.010 #
12) 4,4'-DDE	7.492	8.334	75226	29813	0.023	0.098 #
13) Dieldrin	7.691	8.485	47941	3680145	0.013	1.082 #
14) Endrin	7.848	8.709	44345	4187285	0.014	1.447 #
15) 4,4'-DDD	7.886f	8.748	8283514	7352547	3.255	3.167 #
16) Endosulfa...	8.007	8.833f	224082	186026	0.075	0.040 #
17) 4,4'-DDT	8.110	8.970	12299	196449	0.005	0.055 #
18) Endrin Al...	8.306	9.092	138044	196872	0.052	0.074 #
19) Endosulfa...	8.604	9.284	56452	243989	0.020	0.009 #
20) Methoxychlor	8.462	0.000	13865	0	0.011	N.D. #
21) Endrin Ke...	8.800	9.674	36340	4870687	0.011	1.502 #
23) Hexachlor...	3.080	3.680	7973044	9306742	2.045	1.922 #
24) Hexachlor...	5.680	6.449	6640927	5773353	1.976	1.952 #
25) Oxychlordane	7.158	7.907	6769962	6050162	2.025	1.892 #
26) 2,4'-DDE	7.241	8.112	4488919	4260806	1.941	1.875 #
27) trans-Non...	7.416	8.182	7569675	6830472	2.065	1.892 #
28) 2,4'-DDD	7.614	8.485	3838920	3680145	1.982	1.922 #
29) 2,4'-DDT	7.795	8.709	4727347	4187285	1.975	1.911 #
30) cis-Nonac...	7.886	8.748	8283514	7352547	2.036	1.845 #
31) Mirex	8.551	9.674	5534484	4870687	2.079	2.100 #
32) Chlordane...	7.326	8.112	113780	4260806	0.284	9.807 #
33) Chlordane...	7.416	0.000	7569675	0	15.565	N.D. #
34) Chlordane...	7.969	8.910f	15517	609465	0.119	5.132 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D. #
36) Toxaphene...	7.382	8.485f	5267	3680145	0.322	124.882 #
37) Toxaphene...	7.691	8.833f	47941	186026	1.526	4.629 #
38) Toxaphene...	8.007	8.833	224082	186026	0.023	2.875 #
39) Toxaphene...	8.229	8.910	567766	609465	1.811	2.153 #
40) Toxaphene...	8.474	9.092	10619	196872	0.196	3.434 #
41) Toxaphene...	8.551	0.000	5534484	0	72.770	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:49:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012019.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:22
 Operator : MJB
 Sample : 0B01012-CALD
 Misc : A19K265, 9-42 5 ppb
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:12 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

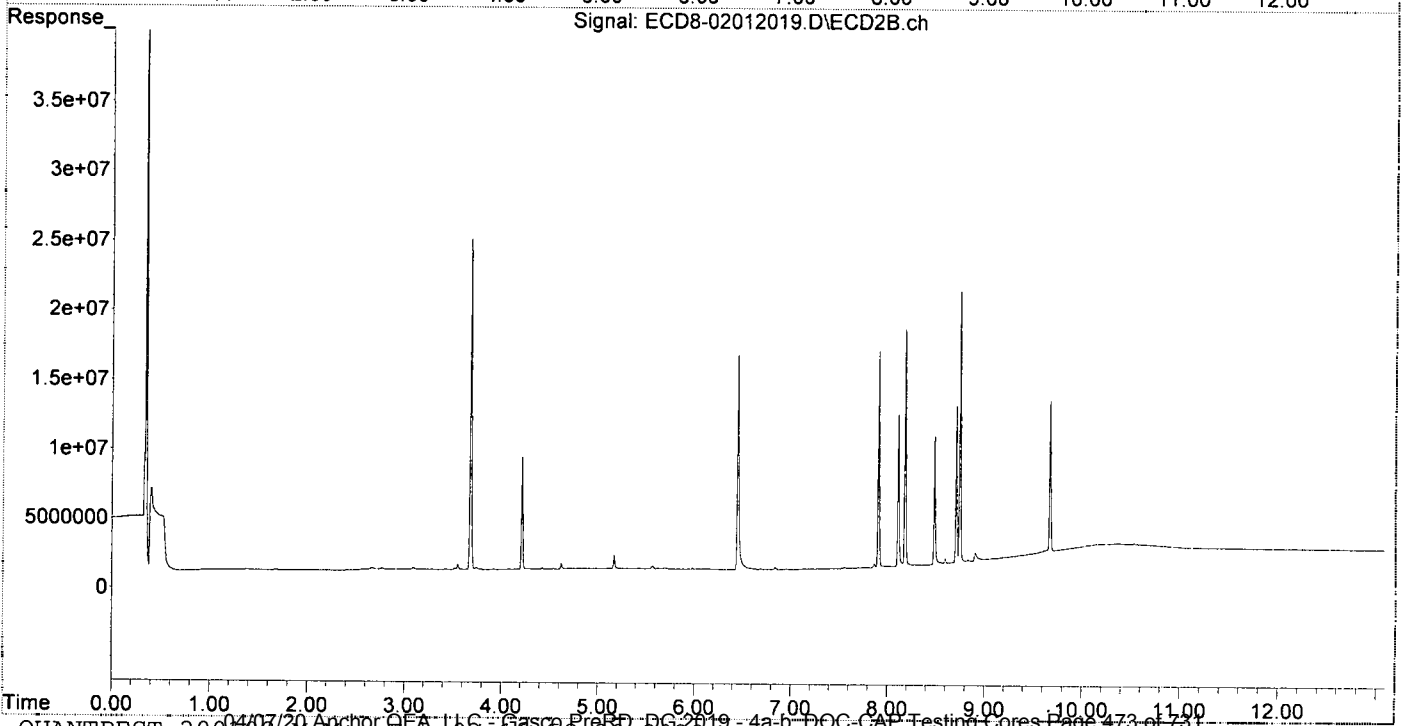
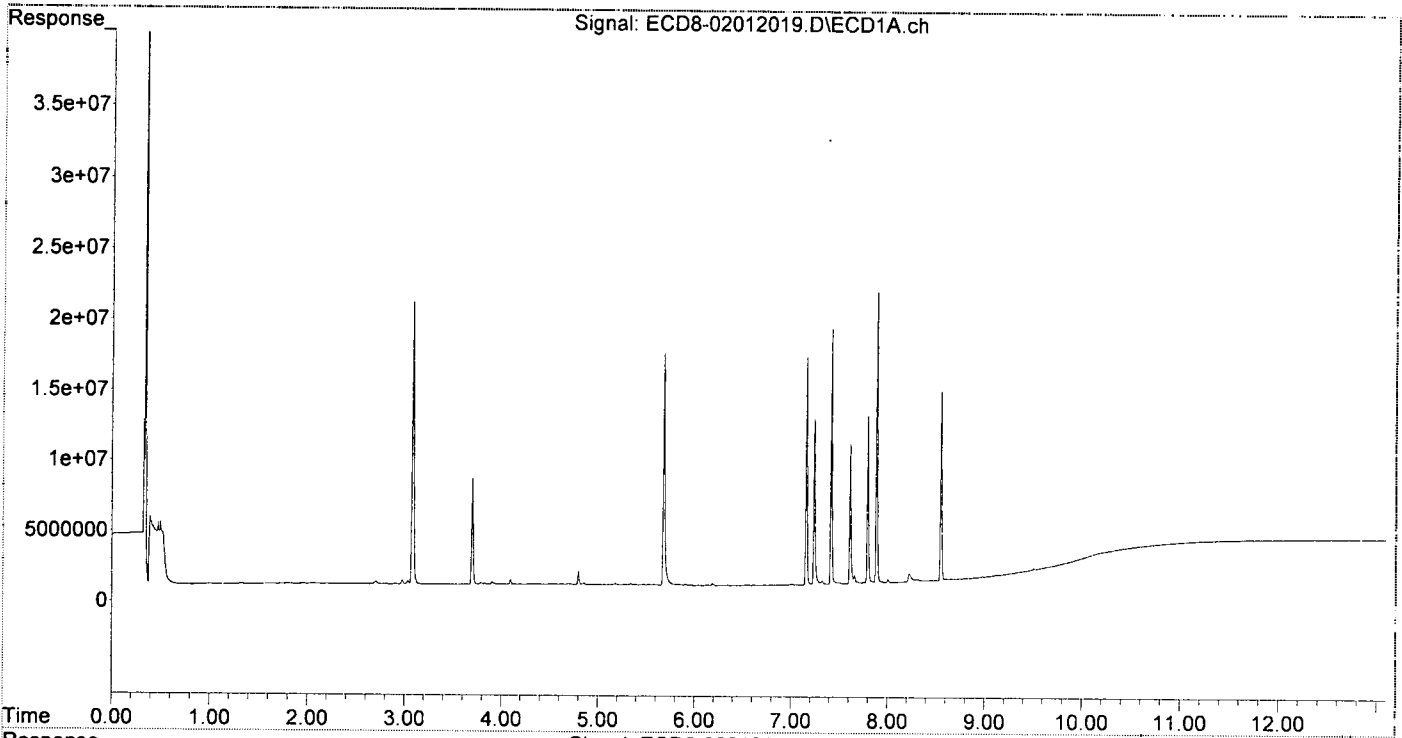
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.274f	5.983	35388	75103	0.010	0.022 #
22) S DCBP (S)	9.508	10.536	305584	1041976	BelowCal	0.008
Target Compounds						
2) a-BHC	5.838	6.580	105593	130785	0.022	0.106 #
3) g-BHC	6.134	6.903	74335	44969	0.018	0.054 #
4) b-BHC	6.187	6.973	184071	49848	0.106	0.029 #
5) Heptachlor	6.530	7.277	50239	54821	0.012	0.013
6) d-BHC	6.348	7.223	30064	74225	0.115	0.119
7) Aldrin	6.770	7.532	15293	16328	0.004	0.016 #
8) Heptachlo...	7.241	7.979	11743726	97727	3.180	0.027 #
9) trans-Chl...	7.326	8.111	245682	10906405	0.065	2.933 #
10) cis-Chlor...	7.416	0.000	18115649	0	4.933	N.D. #
11) Endosulfa...	7.496f	8.278	95554	92988	0.028	0.028
12) 4,4'-DDE	7.496	8.334	95554	71774	0.029	0.111 #
13) Dieldrin	7.692	8.485	108385	9298557	0.028	2.678 #
14) Endrin	7.886f	8.709	20605958	11358035	6.314	3.923 #
15) 4,4'-DDD	7.886f	8.748	20605958	19585336	8.097	8.253
16) Endosulfa...	8.005	8.857	242760	228631	0.081	0.056 #
17) 4,4'-DDT	8.113	8.961	20866	342806	0.008	0.114 #
18) Endrin Al...	8.305	9.090	152427	376004	0.058	0.142 #
19) Endosulfa...	8.605	9.284	78575	449522	0.027	0.091 #
20) Methoxychlor	0.000	9.449	0	532881	N.D.	0.129 #
21) Endrin Ke...	8.799	9.674	48323	11467148	0.014	3.821 #
23) Hexachlor...	3.081	3.680	20008341	23748664	5.133	4.905
24) Hexachlor...	5.680	6.449	16447257	15411069	4.893	5.270
25) Oxylchlorane	7.159	7.908	16184302	15509955	5.088	4.850
26) 2,4'-DDE	7.241	8.111	11743726	10906405	5.079	4.798
27) trans-Non...	7.416	8.182	18115649	16987074	4.941	4.706
28) 2,4'-DDD	7.613	8.485	9882639	9298557	5.103	4.857
29) 2,4'-DDT	7.795	8.709	11872885	11358035	4.961	5.235
30) cis-Nonac...	7.886	8.748	20605958	19585336	5.064	4.914
31) Mirex	8.551	9.674	13322527	11467148	5.298	5.276
32) Chlordane...	7.326	8.111	245682	10906405	0.613	25.102 #
33) Chlordane...	7.416	0.000	18115649	0	37.250	N.D. #
34) Chlordane...	8.005f	8.870	242760	201713	1.865	1.699
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.416	8.436	18115649	51655	1106.677	1.753 #
37) Toxaphene...	7.692	8.831f	108385	327973	3.450	8.161 #
38) Toxaphene...	8.005	8.831	242760	327973	0.289	5.069 #
39) Toxaphene...	8.224	8.908	579745	764477	1.995	3.764 #
40) Toxaphene...	0.000	9.090	0	376004	N.D.	6.559 #
41) Toxaphene...	8.551	9.449	13322527	532881	175.172	8.067 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:12 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012020.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:38
 Operator : MJB
 Sample : 0B01012-CALE
 Misc : A19K266, 9-42 10 ppb
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:25 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

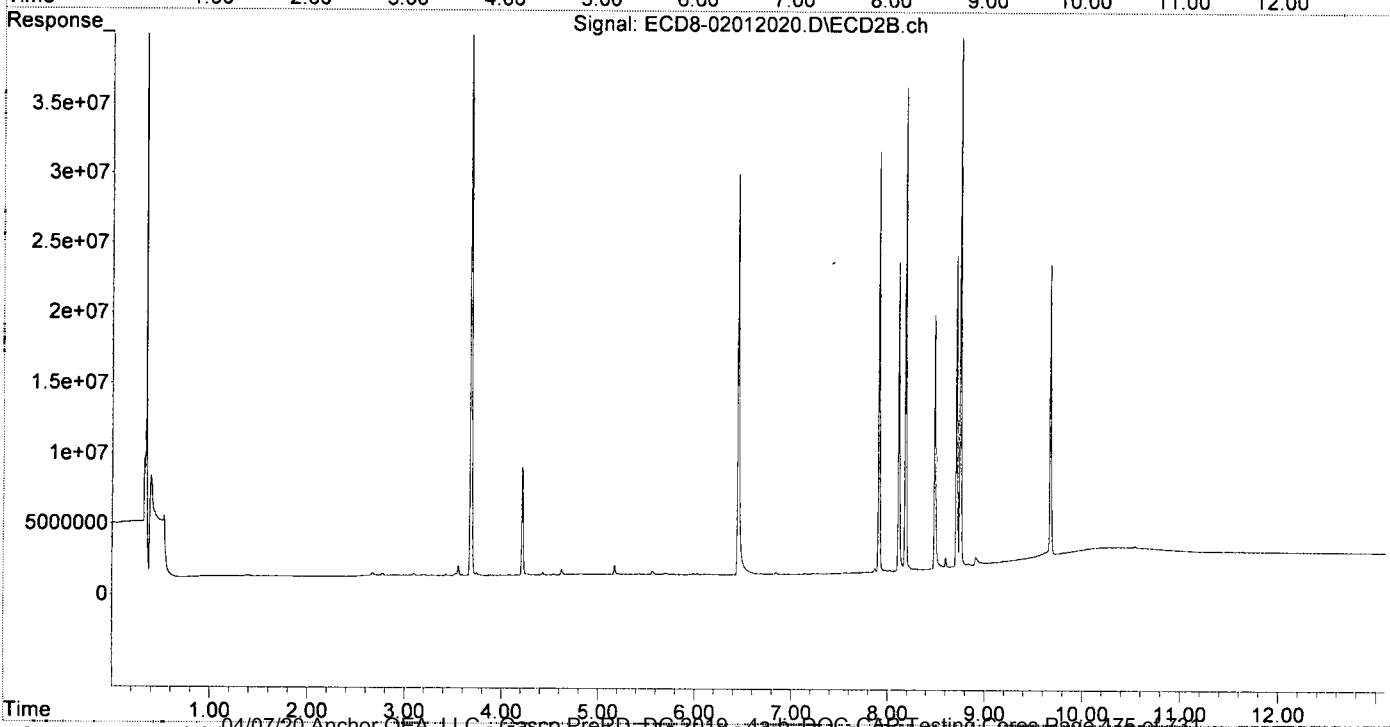
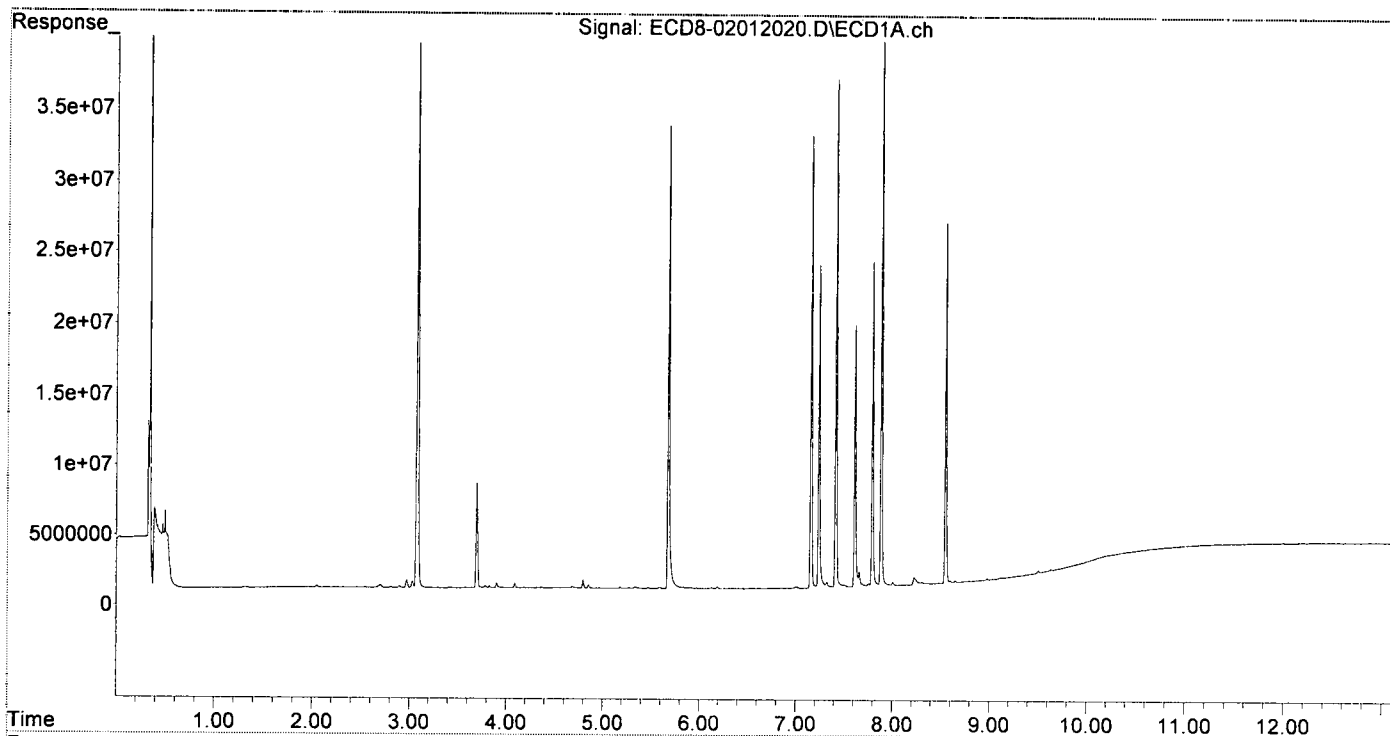
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.274f	5.986	81445	79788	0.023	0.023
22) S DCBP (S)	9.507	10.538	324289	369785	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.841	0.000	99883	0	0.021	N.D. #
3) g-BHC	6.109	6.902	26027	16767	0.006	0.046 #
4) b-BHC	6.189	6.972	154156	28647	0.089	0.017 #
5) Heptachlor	6.529	7.275	55254	58281	0.013	0.014 #
6) d-BHC	6.352	7.224	28919	70939	0.115	0.118 #
7) Aldrin	0.000	7.557	0	78398	N.D.	0.033 #
8) Heptachlo...	7.240	7.979	22804364	134761	6.175	0.038 #
9) trans-Chl...	7.326	8.112	424054	21958095	0.113	5.905 #
10) cis-Chlor...	7.416	0.000	35883154	0	9.771	N.D. #
11) Endosulfa...	7.502	8.288	143488	113190	0.041	0.034 #
12) 4,4'-DDE	7.502	8.332	143488	48480	0.043	0.104 #
13) Dieldrin	7.695	8.484	189402	18062773	0.050	5.154 #
14) Endrin	7.886f	8.708	40436692	22137862	12.390	7.608 #
15) 4,4'-DDD	7.886f	8.748	40436692	38325797	15.889	15.796 #
16) Endosulfa...	8.007	8.849	248978	86088	0.083	0.002 #
17) 4,4'-DDT	8.112	8.962	24555	161224	0.009	0.040 #
18) Endrin Al...	8.306	9.092	135738	111834	0.052	0.042 #
19) Endosulfa...	8.602	9.284	111359	140116	0.039	BelowCal #
20) Methoxychlor	8.459	9.469	12577	212566	0.010	BelowCal #
21) Endrin Ke...	8.799	9.673	39505	20962075	0.011	7.125 #
23) Hexachlor...	3.081	3.680	38377580	47088422	9.845	9.725 #
24) Hexachlor...	5.679	6.449	32647902	28525390	9.712	9.723 #
25) Oxychlorane	7.158	7.908	31984005	29890292	10.223	9.346 #
26) 2,4'-DDE	7.240	8.112	22804364	21958095	9.863	9.660 #
27) trans-Non...	7.416	8.182	35883154	34402162	9.788	9.531 #
28) 2,4'-DDD	7.613	8.484	18534620	18062773	9.570	9.436 #
29) 2,4'-DDT	7.795	8.708	22928210	22137862	9.581	10.156 #
30) cis-Nonac...	7.886	8.748	40436692	38325797	9.937	9.617 #
31) Mirex	8.551	9.673	25430296	20962075	10.306	9.829 #
32) Chlordane...	7.326	8.112	424054	21958095	1.059	50.539 #
33) Chlordane...	7.416	0.000	35883154	0	73.784	N.D. #
34) Chlordane...	7.949	8.908	124496	582747	0.956	4.907 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D. #
36) Toxaphene...	7.416	8.449	35883154	6615	2192.086	0.224 #
37) Toxaphene...	7.695	8.832f	189402	185152	6.029	4.607 #
38) Toxaphene...	8.007	8.832	248978	185152	0.377	2.862 #
39) Toxaphene...	8.228	8.908	542657	582747	1.424	1.875 #
40) Toxaphene...	8.475	9.092	7218	111834	0.133	1.951 #
41) Toxaphene...	8.551	9.469	25430296	212566	334.371	3.218 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:25 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012021.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:55
 Operator : MJB
 Sample : 0B01012-CALF
 Misc : A19J407, 9-42 25 ppb
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:38 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

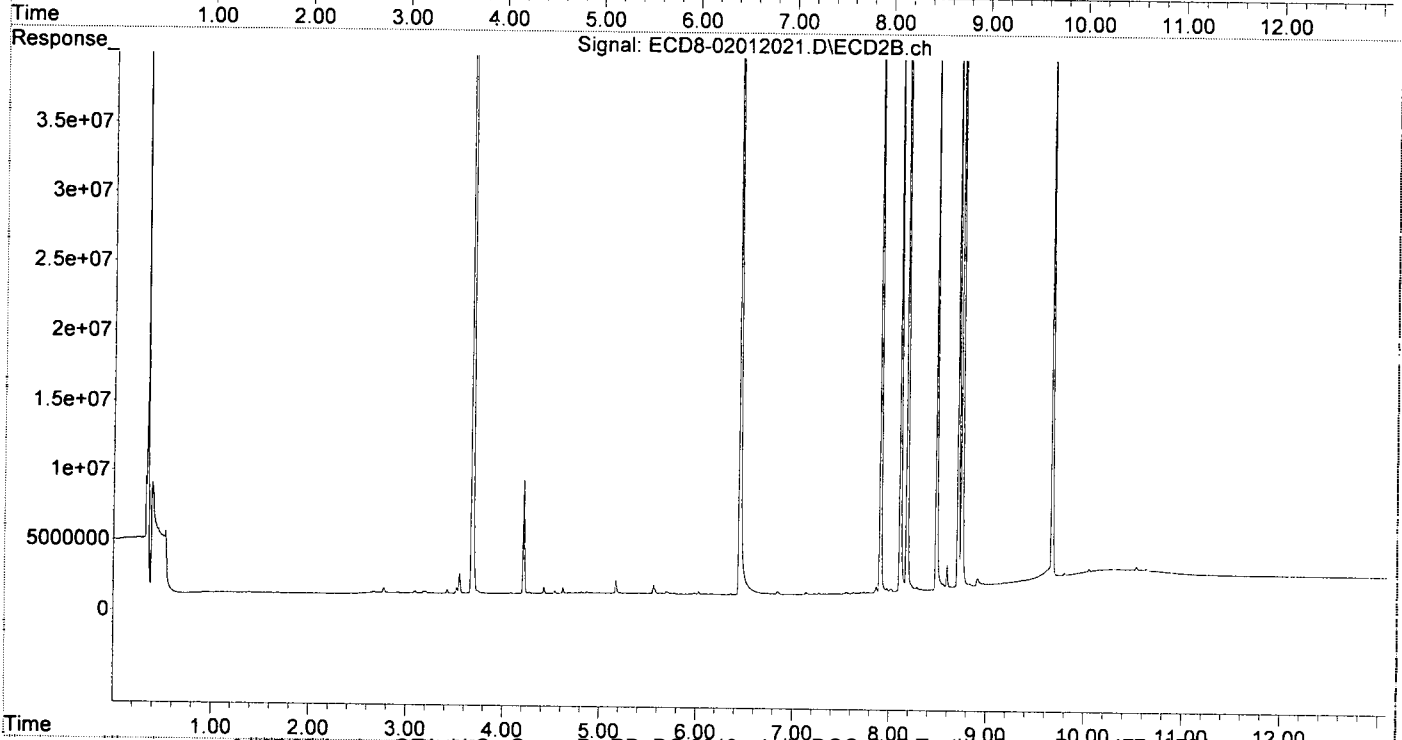
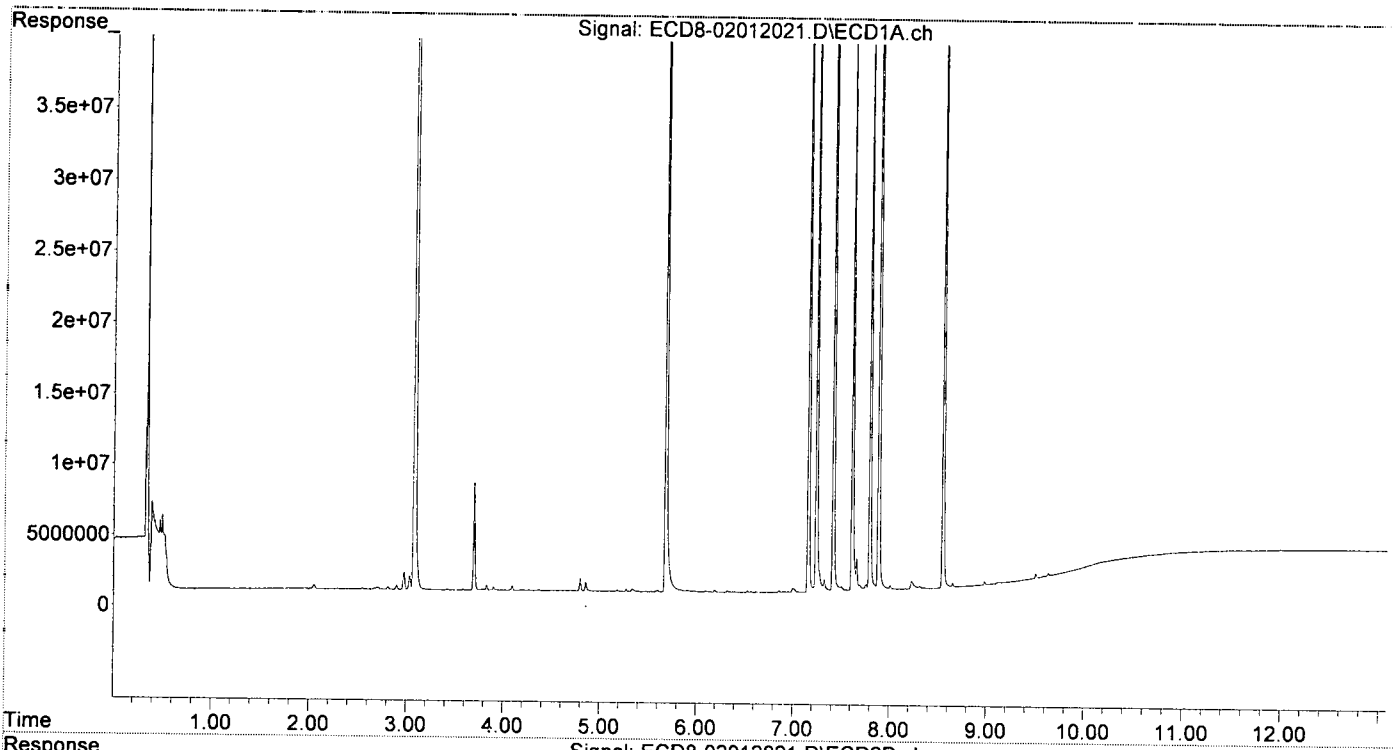
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.273f	5.983	172543	81641	0.049	0.024 #
22) S DCBP (S)	9.507	10.536	471771	879618	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.839	0.000	166681	0	0.035	N.D. #
3) g-BHC	6.135	6.933f	51177	19174	0.012	0.047 #
4) b-BHC	6.190	6.974	158842	20783	0.091	0.012 #
5) Heptachlor	6.530	7.275	101574	94681	0.025	0.022
6) d-BHC	6.364	7.227	19134	49353	0.112	0.112
7) Aldrin	6.782	7.536	7177	17598	0.002	0.017 #
8) Heptachlo...	7.240	7.978	52202377	268492	14.136	0.075 #
9) trans-Chl...	7.326	8.111	841486	51113359	0.224	13.746 #
10) cis-Chlor...	7.416	0.000	81812536	0	22.279	N.D. #
11) Endosulfa...	7.504	8.288	332530	253043	0.096	0.077
12) 4,4'-DDE	7.504	0.000	332530	0	0.100	N.D. #
13) Dieldrin	7.696	8.485	387193	42962025	0.102	12.094 #
14) Endrin	7.887f	8.708	91550344	53723446	28.052	18.166 #
15) 4,4'-DDD	7.887f	8.748	91550344	90384875	35.973	35.397
16) Endosulfa...	8.008	8.833	293687	303094	0.098	0.085
17) 4,4'-DDT	8.112	8.975	49514	242900	0.018	0.073 #
18) Endrin Al...	8.315	9.089	178794	212447	0.068	0.080
19) Endosulfa...	0.000	9.283	0	293817	N.D.	0.029 #
20) Methoxychlor	8.454	0.000	8593	0	0.007	N.D. #
21) Endrin Ke...	8.800	9.673	37765	47784220	0.011	16.253 #
23) Hexachlor...	3.081	3.680	87282581	109.6E6	22.391	22.635
24) Hexachlor...	5.679	6.449	77942708	72282140	23.186	24.106
25) Oxychlordane	7.158	7.908	72990996	71584795	23.514	22.383
26) 2,4'-DDE	7.240	8.111	52202377	51113359	22.578	22.487
27) trans-Non...	7.416	8.181	81812536	80789047	22.315	22.382
28) 2,4'-DDD	7.612	8.485	42203429	42962025	21.790	22.443
29) 2,4'-DDT	7.794	8.708	53607879	53723446	22.401	24.087
30) cis-Nonac...	7.887	8.748	91550344	90384875	22.497	22.680
31) Mirex	8.552	9.673	55829392	47784220	22.909	22.573
32) Chlordane...	7.326	8.111	841486	51113359	2.101	117.644 #
33) Chlordane...	7.416	0.000	81812536	0	168.225	N.D. #
34) Chlordane...	0.000	8.911f	0	672731	N.D.	5.665 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.416	8.450	81812536	4689	4997.892	0.159 #
37) Toxaphene...	7.696	8.833f	387193	303094	12.325	7.542 #
38) Toxaphene...	8.008	8.833	293687	303094	1.012	4.685 #
39) Toxaphene...	8.230	8.911	559144	672731	1.678	2.811 #
40) Toxaphene...	8.460	9.089	8766	212447	0.162	3.706 #
41) Toxaphene...	8.552	0.000	55829392	0	734.075	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012021.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:55
 Operator : MJB
 Sample : 0B01012-CALF
 Misc : A19J407, 9-42 25 ppb
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:38 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012022.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:12
 Operator : MJB
 Sample : 0B01012-CALG
 Misc : A19J408, 9-42 50 ppb
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:49 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

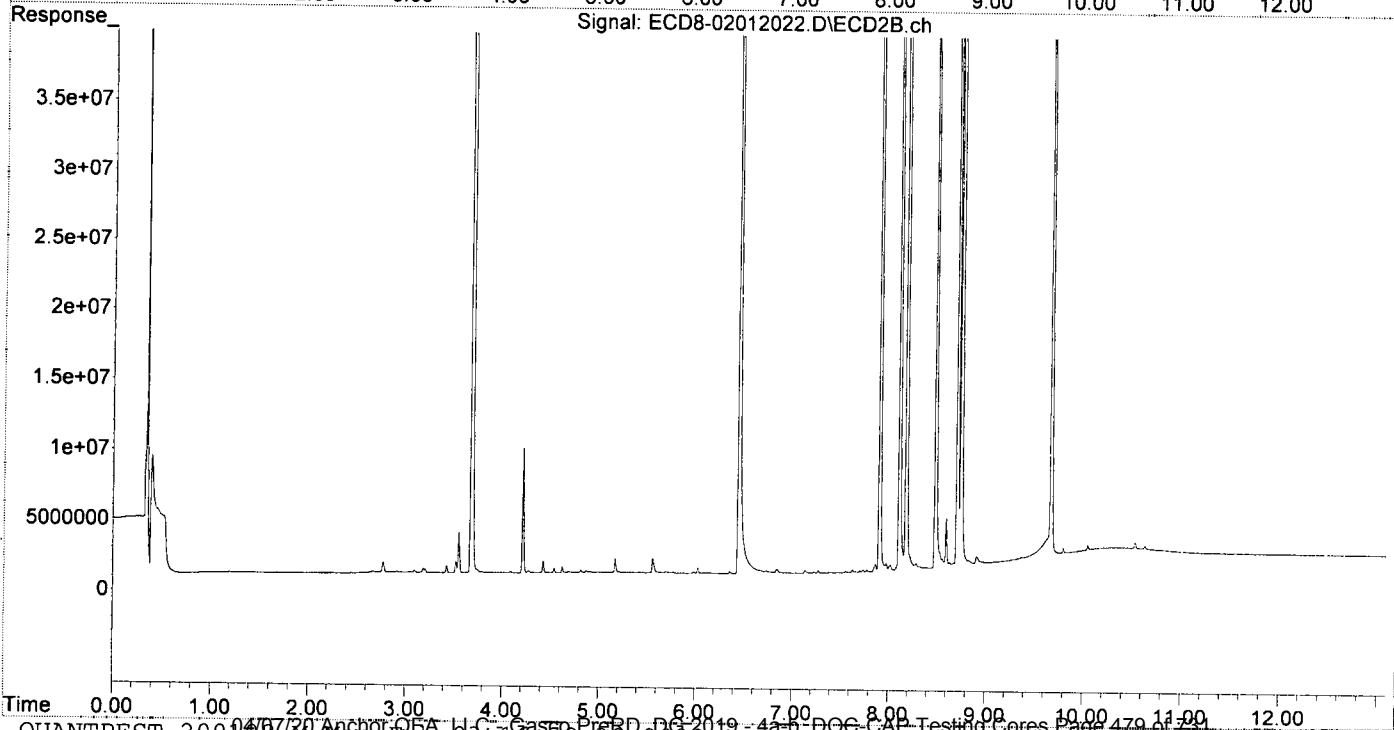
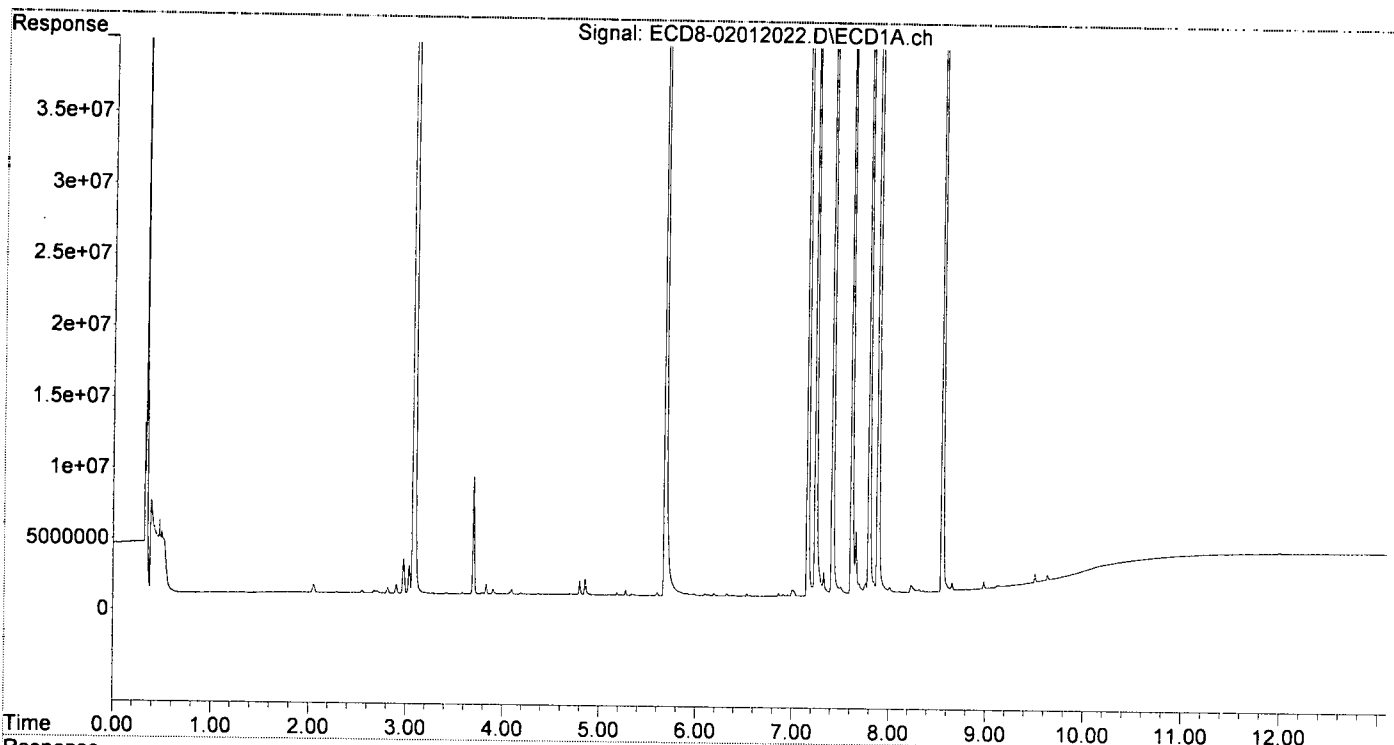
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.273f	5.983	378443	98341	0.108	0.029 #
22) S DCBP (S)	9.507	10.537	770659	1505892	BelowCal	0.238
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.131	6.921	42529	49908	0.010	0.055 #
4) b-BHC	6.189	6.974	171138	62085	0.098	0.036 #
5) Heptachlor	6.529	7.276	180574	174281	0.044	0.041
6) d-BHC	6.321f	7.226	158264	70228	0.152	0.118
7) Aldrin	6.771	7.557	14501	78174	0.004	0.033 #
8) Heptachlo...	7.239	7.977	116.4E6	566399	31.510	0.158 #
9) trans-Chl...	7.325	8.110	1613637	117.1E6	0.429	31.503 #
10) cis-Chlor...	7.415	0.000	177.0E6	0	48.205	N.D. #
11) Endosulfa...	7.503	8.288	545619	524397	0.157	0.159
12) 4,4'-DDE	7.503	0.000	545619	0	0.164	N.D. #
13) Dieldrin	7.693	8.484	740452	99247235	0.194	27.303 #
14) Endrin	7.885f	8.708	200.1E6	122.8E6	61.309	40.122 #
15) 4,4'-DDD	7.885f	8.748	200.1E6	209.3E6	78.621	74.665
16) Endosulfa...	8.009	8.832f	417201	627725	0.139	0.208 #
17) 4,4'-DDT	8.109	8.975	105504	496555	0.039	0.177 #
18) Endrin Al...	8.314	9.094	228342	448426	0.087	0.170 #
19) Endosulfa...	0.000	9.285	0	572993	N.D.	0.140 #
20) Methoxychlor	8.452	0.000	11810	0	0.010	N.D. #
21) Endrin Ke...	8.799	9.674	56595	104.8E6	0.016	34.762 #
23) Hexachlor...	3.080	3.680	186.6E6	249.2E6	47.861	51.461
24) Hexachlor...	5.679	6.448	165.7E6	168.5E6	49.297	53.551
25) Oxychlordane	7.158	7.907	160.5E6	160.7E6	51.703	50.251
26) 2,4'-DDE	7.239	8.110	116.4E6	117.1E6	50.326	51.536
27) trans-Non...	7.415	8.182	177.0E6	179.2E6	48.284	49.647
28) 2,4'-DDD	7.611	8.484	93133543	99247235	48.086	51.846
29) 2,4'-DDT	7.793	8.708	117.1E6	122.8E6	48.936	52.394
30) cis-Nonac...	7.885	8.748	200.1E6	209.3E6	49.169	52.507
31) Mirex	8.551	9.674	117.1E6	104.8E6	48.444	49.128
32) Chlordane...	7.325	8.110	1613637	117.1E6	4.029	269.615 #
33) Chlordane...	7.415	0.000	177.0E6	0	363.993	N.D. #
34) Chlordane...	0.000	8.913f	0	865676	N.D.	7.290 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.415	8.452	177.0E6	154019	10814.060	5.226 #
37) Toxaphene...	7.693	8.832f	740452	627725	23.570	15.619 #
38) Toxaphene...	8.009	8.832	417201	627725	2.767	9.703 #
39) Toxaphene...	8.232	8.913	504733	865676	0.839	4.816 #
40) Toxaphene...	8.469	9.094	6969	448426	0.129	7.822 #
41) Toxaphene...	8.551	0.000	117.1E6	0	1540.175	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:12
Operator : MJB
Sample : 0B01012-CALG
Misc : A19J408, 9-42 50 ppb
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:50:49 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012023.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:29
 Operator : MJB
 Sample : 0B01012-CALH
 Misc : A19J409, 9-42 100 ppb
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:59 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

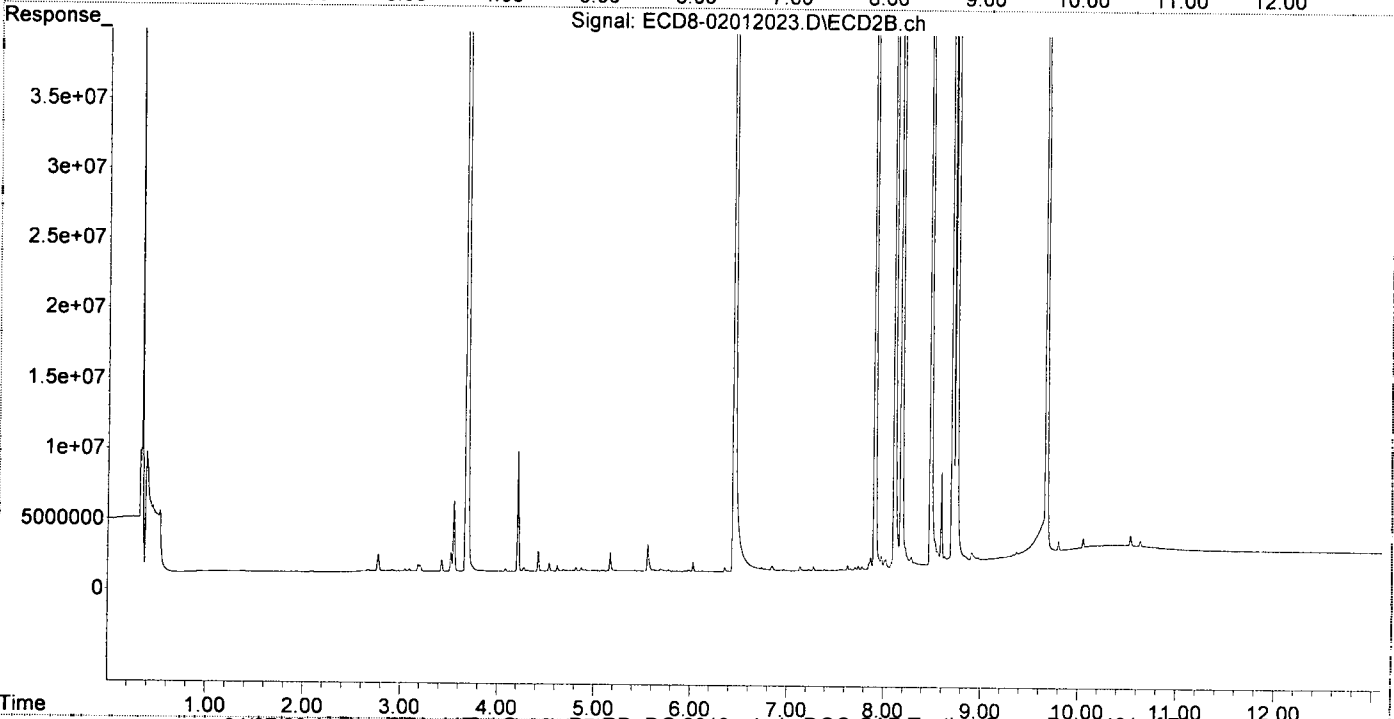
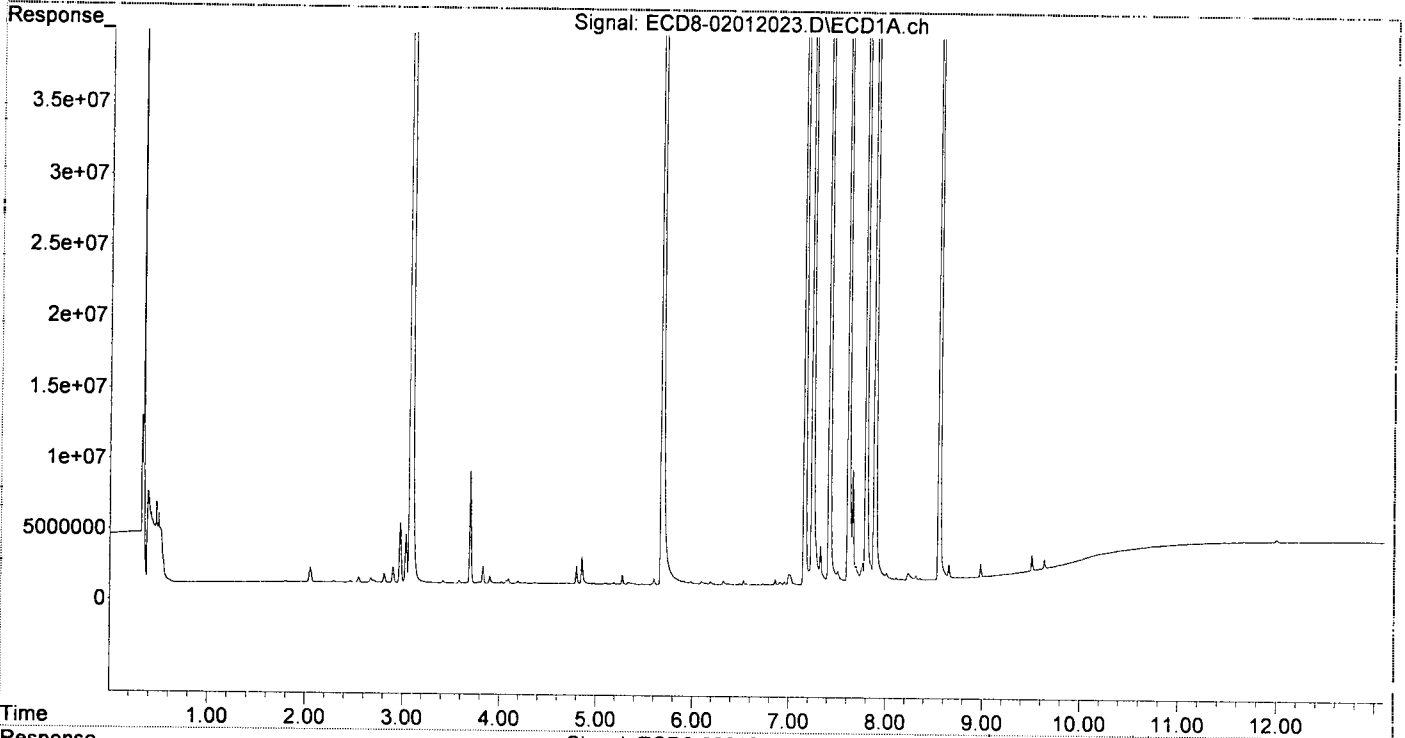
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.273f	5.983	681545	104717	0.195	0.030	#
22) S DCBP (S)	9.508	10.537	1256804	1267933	0.157	0.120	
Target Compounds							
2) a-BHC	5.837	0.000	374614	0	0.079	N.D.	#
3) g-BHC	6.138	6.931f	45065	89708	0.011	0.065	#
4) b-BHC	6.186	6.971	172901	114755	0.099	0.066	#
5) Heptachlor	6.529	7.275	322869	310060	0.079	0.074	#
6) d-BHC	6.319f	7.227	263775	105240	0.183	0.128	#
7) Aldrin	6.768	7.558	20849	77251	0.005	0.033	#
8) Heptachlo...	7.239	7.977	223.0E6	906878	60.400	0.253	#
9) trans-Chl...	7.325	8.110	2691889	238.4E6	0.716	64.125	#
10) cis-Chlor...	7.415	0.000	344.0E6	0	93.675	N.D.	#
11) Endosulfa...	7.504	8.287	863087	682627	0.249	0.207	#
12) 4,4'-DDE	7.504	0.000	863087	0	0.260	N.D.	#
13) Dieldrin	7.694	8.484	1164282	195.5E6	0.305	51.969	#
14) Endrin	7.885f	8.708	379.3E6	253.6E6	116.233	78.307	#
15) 4,4'-DDD	7.885f	8.748	379.3E6	398.9E6	149.055	127.265	#
16) Endosulfa...	8.009	8.851	576299	460137	0.193	0.144	#
17) 4,4'-DDT	8.110	8.974	227388	354632	0.085	0.119	#
18) Endrin Al...	8.296	9.091	137967	218650	0.052	0.083	#
19) Endosulfa...	0.000	9.284	0	311998	N.D.	0.036	#
20) Methoxychlor	8.466	0.000	13853	0	0.011	N.D.	#
21) Endrin Ke...	8.798	9.674	67455	204.2E6	0.020	64.560	#
23) Hexachlor...	3.081	3.681	351.0E6	469.1E6	90.046	96.874	#
24) Hexachlor...	5.679	6.448	320.6E6	327.6E6	95.359	97.177	#
25) Oxychlordane	7.158	7.907	299.8E6	312.8E6	96.097	97.799	#
26) 2,4'-DDE	7.239	8.110	223.0E6	238.4E6	96.469	104.901	#
27) trans-Non...	7.415	8.181	344.0E6	367.6E6	93.831	101.831	#
28) 2,4'-DDD	7.611	8.484	188.9E6	195.5E6	97.532	102.152	#
29) 2,4'-DDT	7.794	8.708	229.9E6	253.6E6	96.052	100.011	#
30) cis-Nonac...	7.885	8.748	379.3E6	398.9E6	93.217	100.107	#
31) Mirex	8.551	9.674	232.7E6	204.2E6	97.034	93.726	#
32) Chlordane...	7.325	8.110	2691889	238.4E6	6.722	548.802	#
33) Chlordane...	7.415	0.000	344.0E6	0	707.341	N.D.	#
34) Chlordane...	0.000	8.910f	0	734821	N.D.	6.188	#
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.	#
36) Toxaphene...	7.415	8.484f	344.0E6	195.5E6	21014.795	6635.699	#
37) Toxaphene...	7.694	0.000	1164282	0	37.061	N.D.	#
38) Toxaphene...	8.009	8.851	576299	460137	5.027	7.112	#
39) Toxaphene...	8.235	8.910	520931	734821	1.089	3.456	#
40) Toxaphene...	8.466	9.091	13853	218650	0.256	3.814	#
41) Toxaphene...	8.551	0.000	232.7E6	0	3060.097	N.D.	#
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012023.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:29
 Operator : MJB
 Sample : 0B01012-CALH
 Misc : A19J409, 9-42 100 ppb
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:50:59 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:46
 Operator : MJB
 Sample : 0B01012-CALI
 Misc : A19K262, 9-42 200 ppb
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:51:11 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

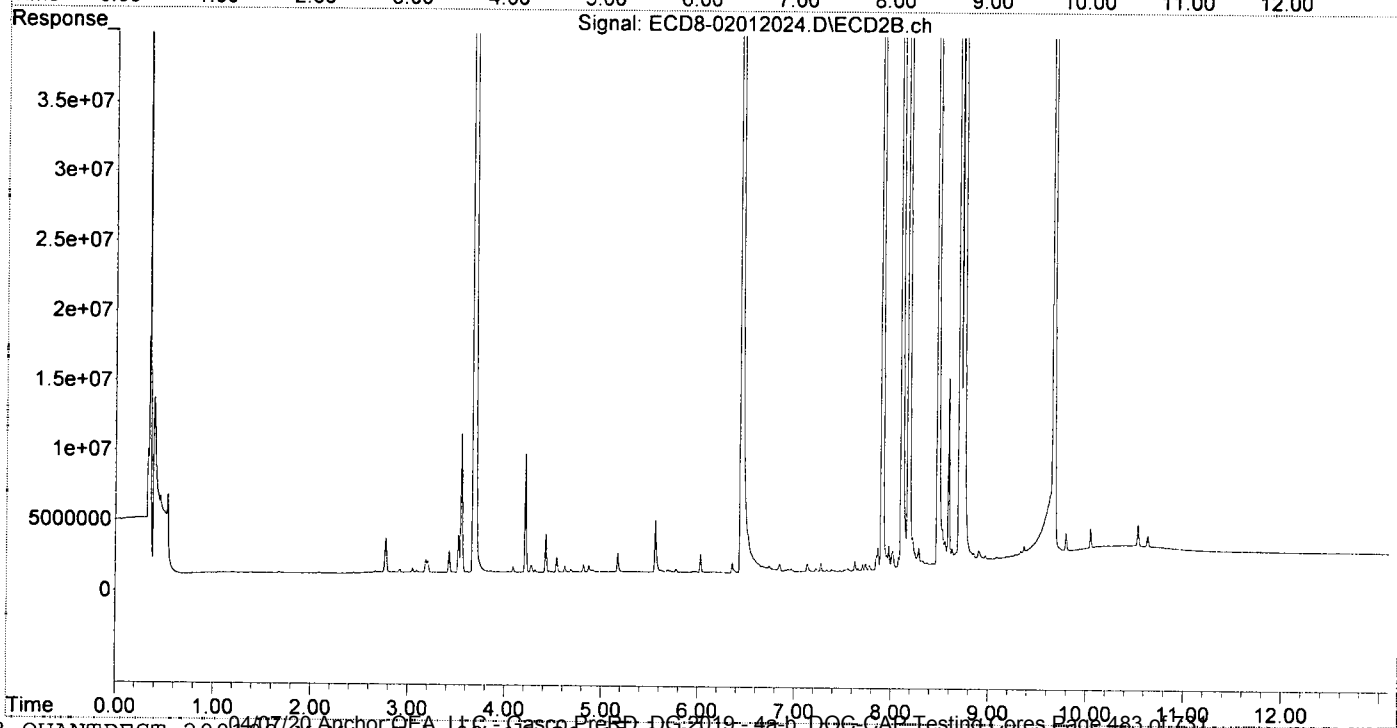
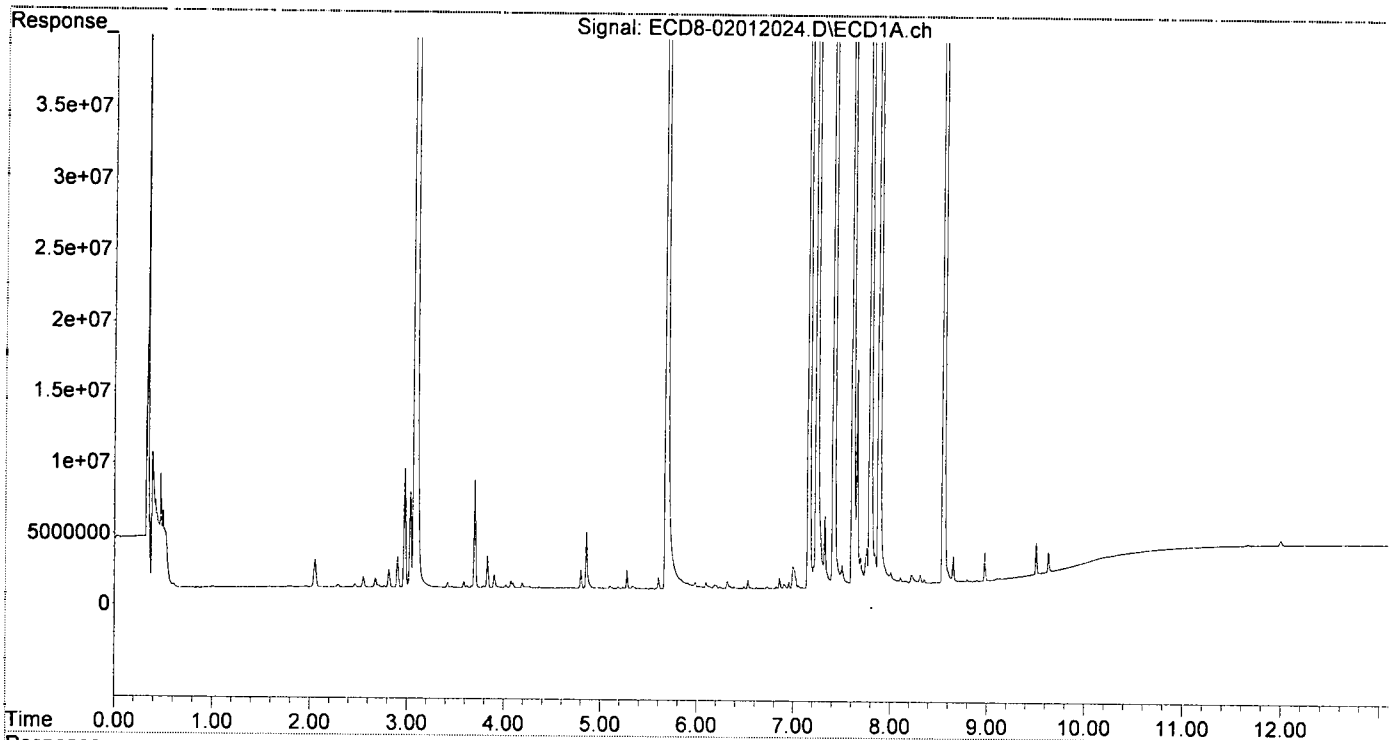
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.273f	5.979	1304536	82402	0.373	0.024 #
22) S DCBP (S)	9.506	10.535	2233814	2678724	0.540	0.818 #
Target Compounds						
2) a-BHC	5.833	0.000	700515	0	0.148	N.D. #
3) g-BHC	6.117	6.904	203946	144858	0.049	0.079 #
4) b-BHC	6.199	6.967	250195	234291	0.144	0.135 #
5) Heptachlor	6.528	7.274	650259	607091	0.158	0.144 #
6) d-BHC	6.347	7.224	167146	248468	0.155	0.168 #
7) Aldrin	6.768	7.551	62352	176516	0.015	0.059 #
8) Heptachlo...	7.238	7.976	482.9E6	1706342	130.754	0.475 #
9) trans-Chl...	7.324	8.109	5059668	534.7E6	1.345	143.794 #
10) cis-Chlor...	7.415	8.223	728.0E6	2252124	198.236	0.639 #
11) Endosulfa...	7.502	8.286	1539983	1482912	0.444	0.449 #
12) 4,4'-DDE	7.502	8.324	1539983	554799	0.464	0.266 #
13) Dieldrin	7.693	8.483	2009203	469.3E6	0.527	114.904 #
14) Endrin	7.844	8.707	2157901	583.6E6	0.661	160.991 #
15) 4,4'-DDD	7.884f	8.747	835.6E6	936.1E6	328.347	242.433 #
16) Endosulfa...	8.008	8.853	873285	1023893	0.292	0.358 #
17) 4,4'-DDT	8.108	8.973	498317	837452	0.185	0.316 #
18) Endrin Al...	8.312	9.091	664130	693413	0.252	0.262 #
19) Endosulfa...	0.000	9.282	0	830775	N.D.	0.243 #
20) Methoxychlor	8.454	0.000	71534	0	0.059	N.D. #
21) Endrin Ke...	8.797	9.673	169181	479.6E6	0.049	135.887 #
23) Hexachlor...	3.081	3.681	752.3E6	1068.1E6	192.979	220.589 #
24) Hexachlor...	5.679	6.449	700.2E6	782.5E6	208.297	200.388 #
25) Oxychlorane	7.157	7.907	643.7E6	730.3E6	203.252	228.367 #
26) 2,4'-DDE	7.238	8.109	482.9E6	534.7E6	208.837	235.231 #
27) trans-Non...	7.415	8.181	728.0E6	810.4E6	198.564	224.514 #
28) 2,4'-DDD	7.610	8.483	416.9E6	469.3E6	215.266	245.182 #
29) 2,4'-DDT	7.792	8.707	502.1E6	583.6E6	209.798	198.781 #
30) cis-Nonac...	7.884	8.747	835.6E6	936.1E6	205.344	234.897 #
31) Mirex	8.550	9.673	487.2E6	479.6E6	206.142	208.232 #
32) Chlordane...	7.324	8.109	5059668	534.7E6	12.634	1230.638 #
33) Chlordane...	7.415	8.223	728.0E6	2252124	1496.878	6.195 #
34) Chlordane...	0.000	8.906	0	1179129	N.D.	9.929 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D. #
36) Toxaphene...	7.415	8.435	728.0E6	319855	44471.567	10.854 #
37) Toxaphene...	7.693	8.829f	2009203	1065509	63.956	26.512 #
38) Toxaphene...	8.008	8.829	873285	1065509	9.247	16.469 #
39) Toxaphene...	8.223f	8.906	651403	1179129	3.100	8.073 #
40) Toxaphene...	8.454	9.091	71534	693413	1.320	12.095 #
41) Toxaphene...	8.550	0.000	487.2E6	0	6406.202	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:36
 Operator : MJB
 Sample : 0B01012-CALJ
 Misc : A20B004, CHLOR 10 ppb
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:51:48 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

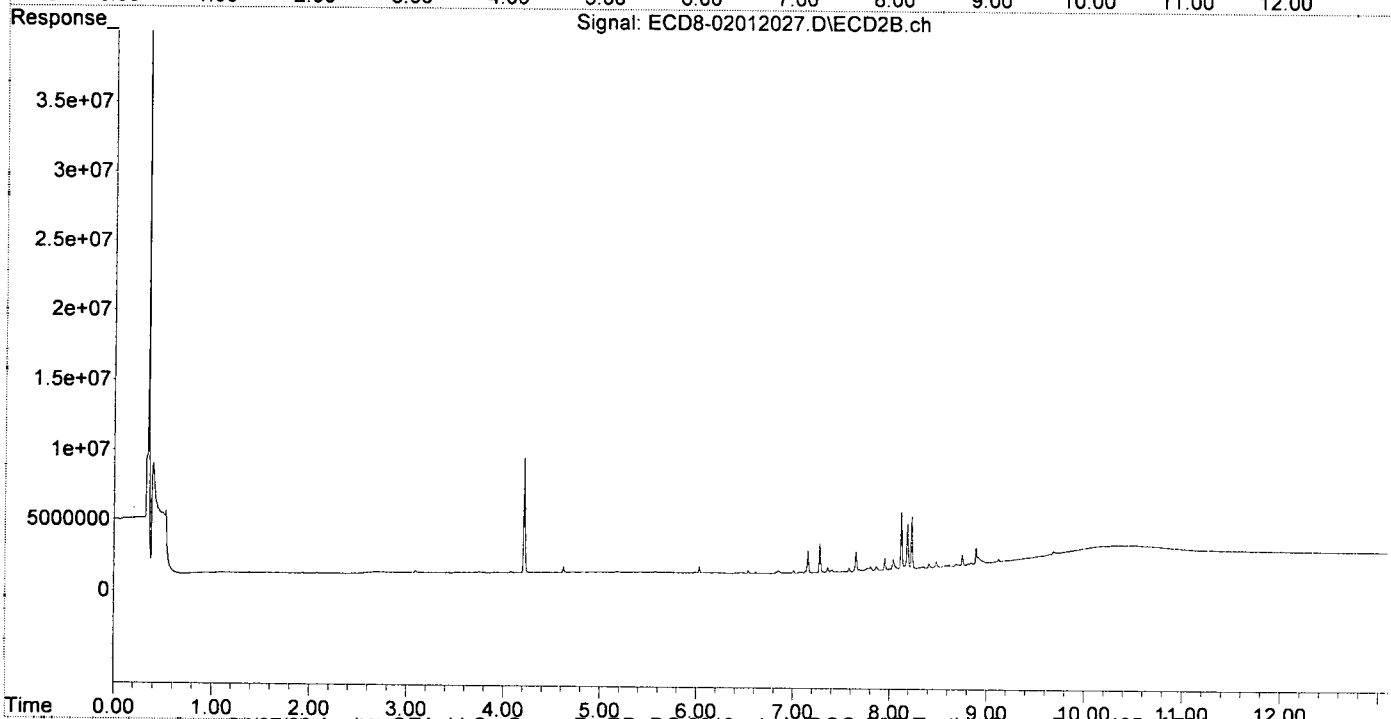
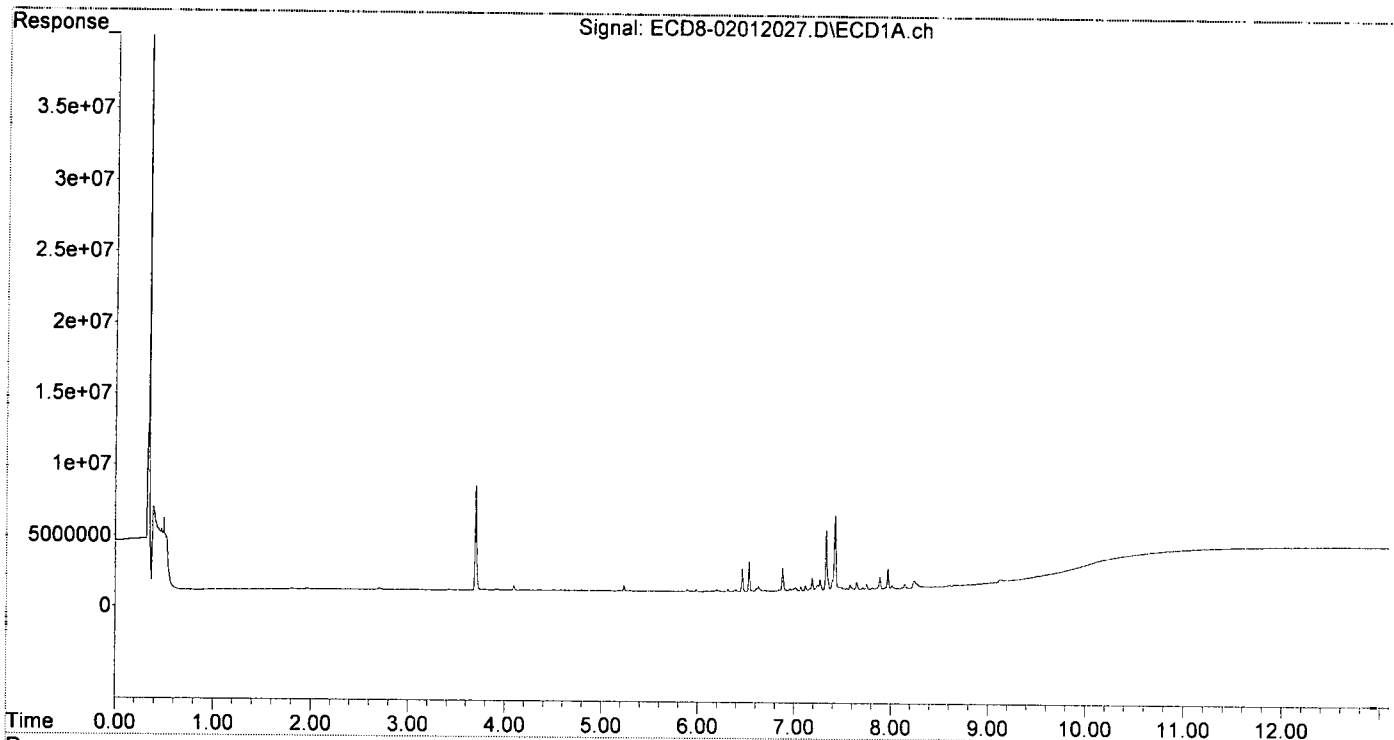
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.983	37371	62991	0.011	0.018 #
22) S DCBP (S)	9.509	10.536	201674	561115	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.846	6.611f	24343	115221	0.005	0.103 #
3) g-BHC	6.091f	6.912	65256	42857	0.016	0.053 #
4) b-BHC	6.192	6.975	131243	9022	0.075	0.005 #
5) Heptachlor	6.530	7.275	2107581	2035440	0.513	0.483
6) d-BHC	6.344	7.226	18860	19583	0.112	0.103
7) Aldrin	6.771	7.544	16577	11449	0.004	0.015 #
8) Heptachlo...	7.242	7.998	419725	96230	0.114	0.027 #
9) trans-Chl...	7.328	8.118	4222162	4084683	1.123	1.099
10) cis-Chlor...	7.421	8.226	5231315	3718290	1.425	1.056 #
11) Endosulfa...	7.496f	8.299f	160618	53549	0.046	0.016 #
12) 4,4'-DDE	7.496	8.324	160618	95889	0.048	0.119 #
13) Dieldrin	7.706	8.480	150581	430611	0.039	0.155 #
14) Endrin	7.847	8.703	61204	105733	0.019	0.029 #
15) 4,4'-DDD	7.919	8.749	40077	799079	0.016	0.385 #
16) Endosulfa...	8.010	8.866	225869	100611	0.076	0.008 #
17) 4,4'-DDT	8.113	9.005f	70129	131307	0.026	0.028
18) Endrin Al...	8.302	9.091	112075	133185	0.043	0.050
19) Endosulfa...	8.609	9.286	82500	173859	0.029	BelowCal #
20) Methoxychlor	8.453	9.468	39001	252366	0.032	BelowCal #
21) Endrin Ke...	8.801	9.683	28305	567675	0.008	BelowCal #
23) Hexachlor...	3.091	3.698	34892	72700	0.009	0.015 #
24) Hexachlor...	5.679	6.452	35544	42391	0.011	BelowCal #
25) Oxychlorane	7.160	7.922	206052	36715	BelowCal	0.011
26) 2,4'-DDE	7.242	8.118	419725	4084683	0.182	1.797 #
27) trans-Non...	7.421	8.182	5231315	3231178	1.427	0.895 #
28) 2,4'-DDD	7.620	8.480	55279	430611	0.029	0.225 #
29) 2,4'-DDT	7.815f	8.703	116578	105733	0.049	0.000 #
30) cis-Nonac...	7.886	8.749	866535	799079	0.213	0.201
31) Mirex	8.553	9.683	31646	567675	8199.116	0.022 #
32) Chlordane...	7.328	8.118	4222162	4084683	10.543	9.401
33) Chlordane...	7.421	8.226	5231315	3718290	10.757	10.228
34) Chlordane...	7.968	8.889	1477991	1246903	11.352	10.500
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.393	8.438	748729	25541	45.740	0.867 #
37) Toxaphene...	7.706	8.806	150581	119727	4.793	2.979 #
38) Toxaphene...	8.010	8.836	225869	193404	0.049	2.989 #
39) Toxaphene...	8.240	8.914	513164	548095	0.969	1.515 #
40) Toxaphene...	8.475	9.091	17982	133185	0.332	2.323 #
41) Toxaphene...	8.553	9.468	31646	252366	0.416	3.821 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:36
 Operator : MJB
 Sample : 0B01012-CALJ
 Misc : A20B004, CHLOR 10 ppb
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:51:48 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012028.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:53
 Operator : MJB
 Sample : 0B01012-CALK
 Misc : A19K307, CHLOR 50 ppb
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:51:59 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

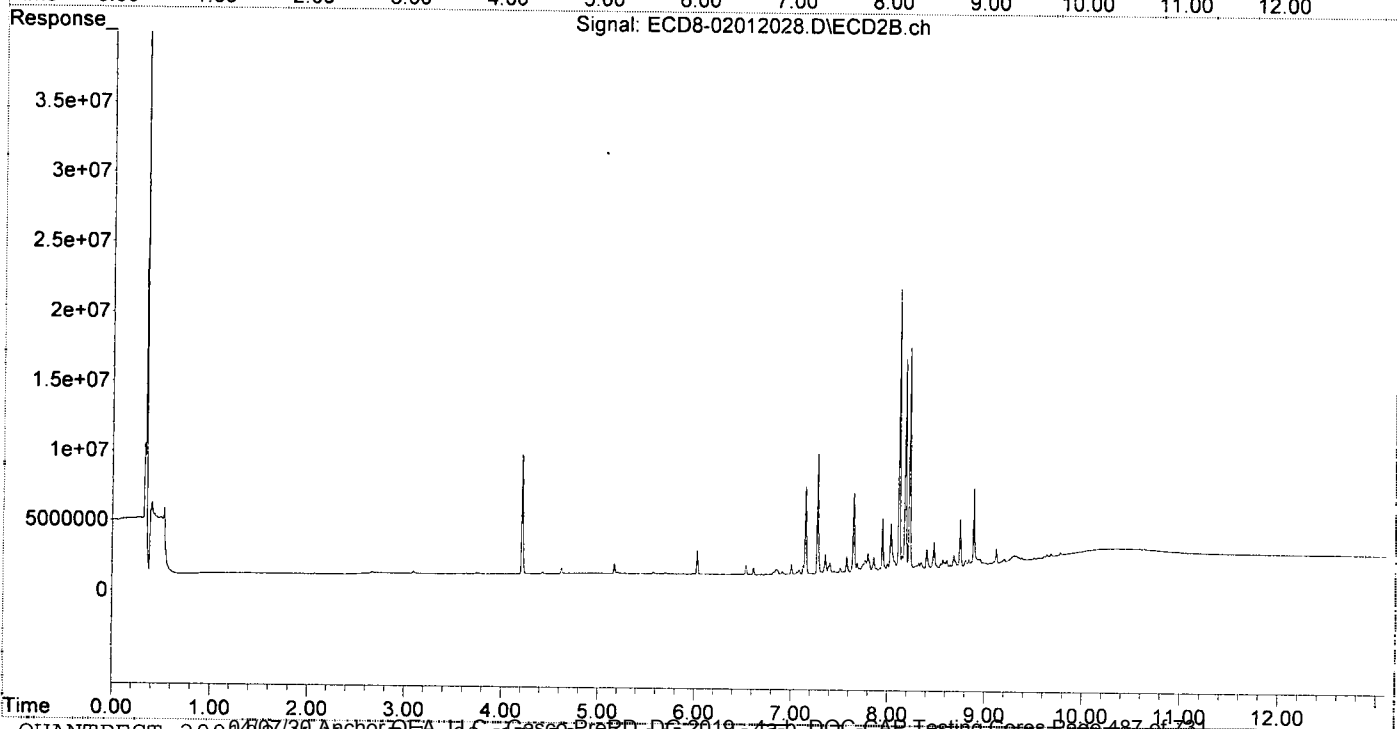
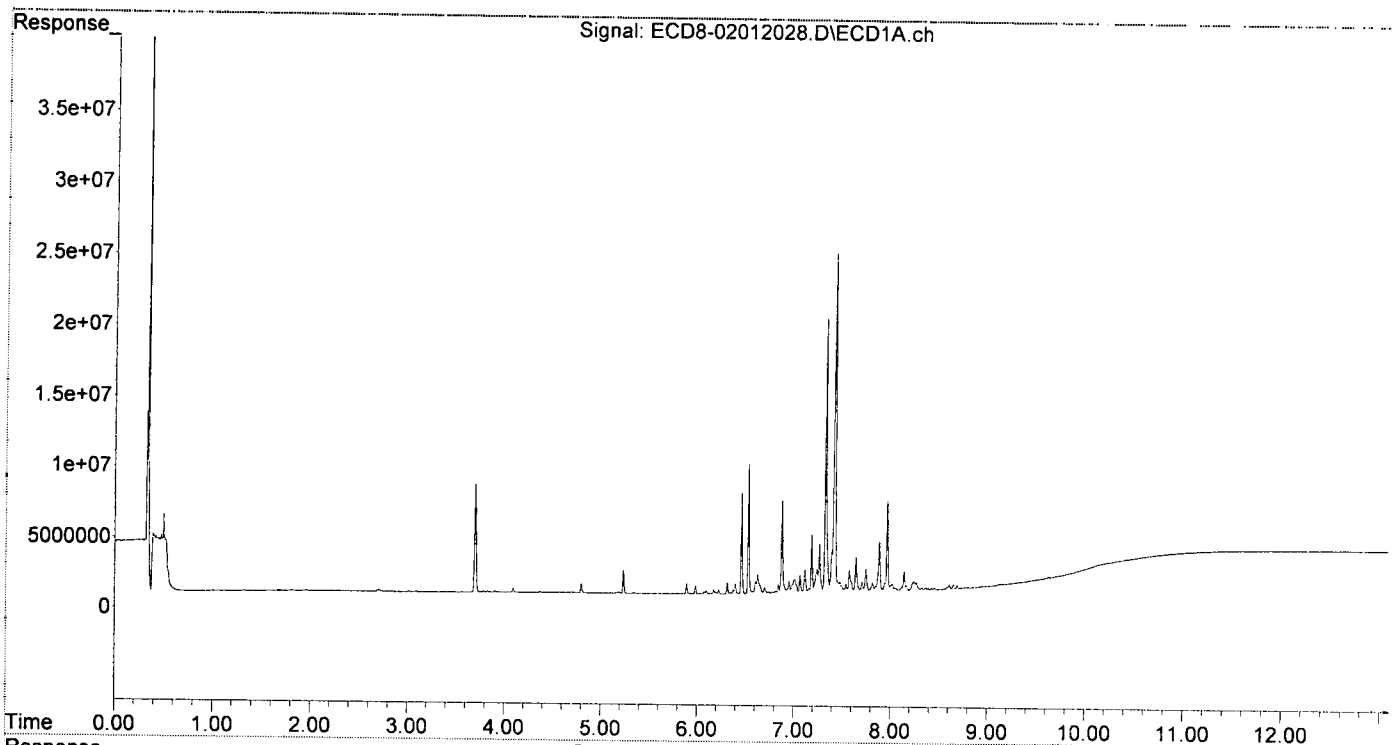
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.987	0	80767	N.D.	0.023 #
22) S DCBP (S)	9.510	10.540	186477	988312	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.843	6.611f	34117	507112	0.007	0.195 #
3) g-BHC	6.138	6.911	45252	221321	0.011	0.099 #
4) b-BHC	6.191	7.004f	172351	727005	0.099	0.419 #
5) Heptachlor	6.530	7.275	9157180	8589063	2.228	2.040
6) d-BHC	6.341	7.223	91148	33385	0.133	0.107
7) Aldrin	6.773	7.510f	77130	341414	0.019	0.103 #
8) Heptachlo...	7.241	7.998	1647301	548429	0.446	0.153 #
9) trans-Chl...	7.327	8.119	19331862	20134199	5.141	5.415
10) cis-Chlor...	7.421	8.226	23846059	15910016	6.494	4.516 #
11) Endosulfa...	7.540f	8.298f	550631	346159	0.159	0.105 #
12) 4,4'-DDE	7.477	8.321	688155	520445	0.207	0.255
13) Dieldrin	7.706	8.478	680405	2005172	0.178	0.605 #
14) Endrin	7.846	8.721	347516	319957	0.106	0.104
15) 4,4'-DDD	7.885f	8.748	3528543	3553430	1.386	1.559
16) Endosulfa...	8.017	8.864	468453	520859	0.157	0.167
17) 4,4'-DDT	8.142f	8.984	1378170	395270	0.513	0.136 #
18) Endrin Al...	8.327f	9.061f	156187	346462	0.059	0.131 #
19) Endosulfa...	8.609	9.310f	322890	828646	0.113	0.243 #
20) Methoxychlor	8.453	9.417f	125281	534442	0.104	0.130 #
21) Endrin Ke...	8.796	9.683	51993	887354	0.015	0.092 #
23) Hexachlor...	3.088	3.701f	40987	32368	0.011	0.007 #
24) Hexachlor...	5.655f	6.446	32910	29391	0.010	BelowCal #
25) Oxychlordane	7.157	7.921	305840	265124	BelowCal	0.083
26) 2,4'-DDE	7.241	8.119	1647301	20134199	0.712	8.858 #
27) trans-Non...	7.421	8.181	23846059	15111519	6.504	4.187 #
28) 2,4'-DDD	7.644f	8.478	2451266	2005172	1.266	1.047
29) 2,4'-DDT	7.815f	8.721	559527	319957	0.234	0.101 #
30) cis-Nonac...	7.885	8.748	3528543	3553430	0.867	0.892
31) Mirex	8.549	9.683	37685	887354	8199.113	0.176 #
32) Chlordane...	7.327	8.119	19331862	20134199	48.272	46.341
33) Chlordane...	7.421	8.226	23846059	15910016	49.033	43.762
34) Chlordane...	7.967	8.889	6361865	5712561	48.863	48.104
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.392	8.438	2982328	236518	182.189	8.026 #
37) Toxaphene...	7.706	8.805	680405	635837	21.658	15.821 #
38) Toxaphene...	8.017	8.839	468453	689146	3.495	10.652 #
39) Toxaphene...	8.243	8.889	609400	5712561	2.453	54.998 #
40) Toxaphene...	8.453	9.061	125281	346462	2.311	6.043 #
41) Toxaphene...	8.549	0.000	37685	0	0.496	N.D. #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 21:53
Operator : MJB
Sample : 0B01012-CALK
Misc : A19K307, CHLOR 50 ppb
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:51:59 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012029.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 22:10
 Operator : MJB
 Sample : 0B01012-CALL
 Misc : A19K308, CHLOR 100 ppb
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:52:07 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

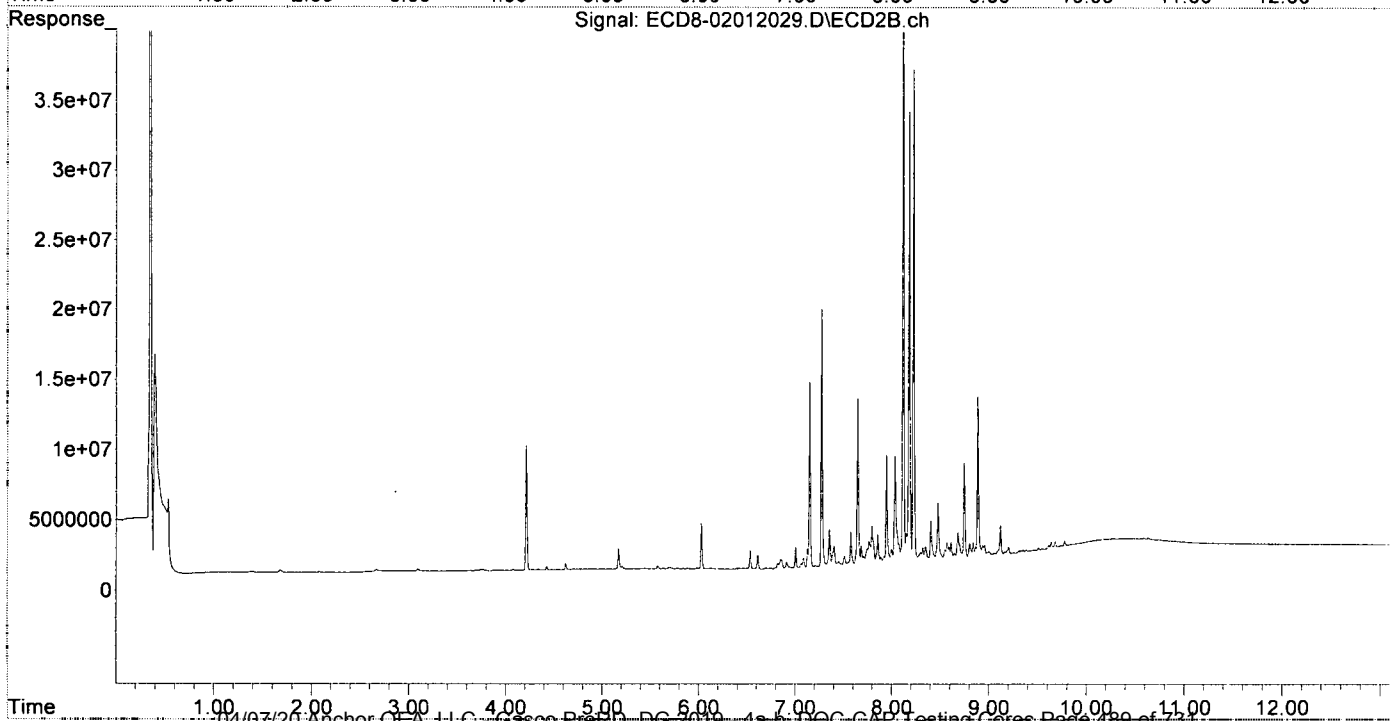
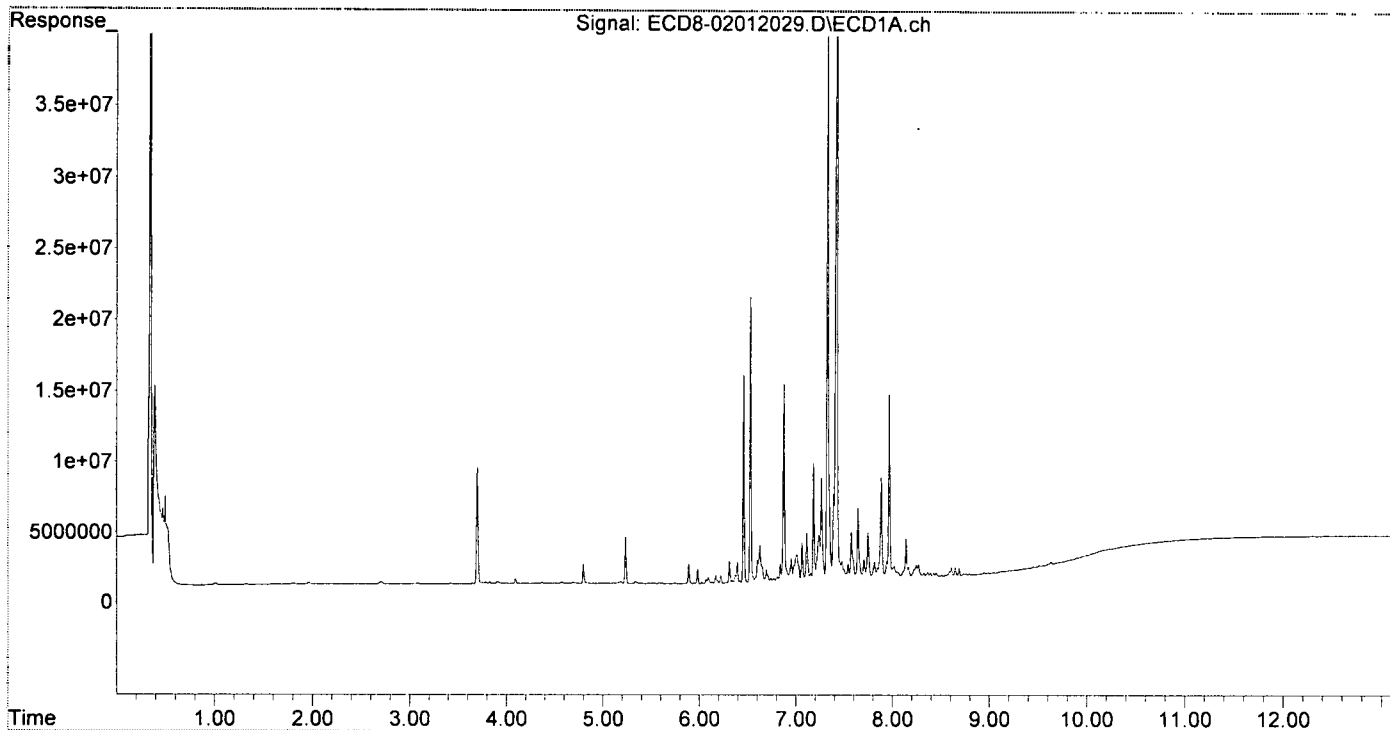
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.296	5.981	18285	139852	0.005	0.041 #
22) S DCBP (S)	9.511	10.548	233812	955797	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.836	6.559f	40233	71861	0.009	0.093 #
3) g-BHC	6.137	6.910	63520	453479	0.015	0.158 #
4) b-BHC	6.187	7.003f	199442	1492404	0.115	0.860 #
5) Heptachlor	6.528	7.274	20207396	18318616	4.917	4.350
6) d-BHC	6.339	7.224	174122	50713	0.157	0.112 #
7) Aldrin	6.772	7.553	226592	217485	0.056	0.070 #
8) Heptachlo...	7.241	7.998	3250852	1031319	0.880	0.287 #
9) trans-Chl...	7.326	8.118	40982018	43332192	10.898	11.653
10) cis-Chlor...	7.420	8.225	50068645	35221978	13.634	9.999 #
11) Endosulfa...	7.497f	8.297f	736681	699574	0.212	0.212
12) 4,4'-DDE	7.497	8.321	736681	1037434	0.222	0.421 #
13) Dieldrin	7.705	8.478	1396635	4214502	0.366	1.234 #
14) Endrin	7.845	8.721	786672	558747	0.241	0.187
15) 4,4'-DDD	7.886f	8.748	7145830	6934194	2.808	2.991
16) Endosulfa...	8.018	8.864	864677	919897	0.289	0.318
17) 4,4'-DDT	8.087f	8.985	168344	497955	0.063	0.178 #
18) Endrin Al...	8.327f	9.060f	300248	431257	0.114	0.163 #
19) Endosulfa...	8.610	9.289	620034	357172	0.217	0.054 #
20) Methoxychlor	8.452	9.458	275018	479698	0.228	0.079 #
21) Endrin Ke...	8.795	9.683	93003	1040090	0.027	0.146 #
23) Hexachlor...	3.084	3.681	60843	45754	0.016	0.009 #
24) Hexachlor...	5.675	6.441	20347	54798	0.006	BelowCal #
25) Oxychlorane	7.154	7.920	536974	556603	BelowCal	0.174
26) 2,4'-DDE	7.241	8.118	3250852	43332192	1.406	19.064 #
27) trans-Non...	7.420	8.181	50068645	32197131	13.657	8.920 #
28) 2,4'-DDD	7.644f	8.478	5091456	4214502	2.629	2.202
29) 2,4'-DDT	7.813f	8.721	1174381	558747	0.491	0.213 #
30) cis-Nonac...	7.886	8.748	7145830	6934194	1.756	1.740
31) Mirex	8.547	9.683	65030	1040090	8199.102	0.250 #
32) Chlordane...	7.326	8.118	40982018	43332192	102.332	99.734 ✓
33) Chlordane...	7.420	8.225	50068645	35221978	102.952	96.882 ✓
34) Chlordane...	7.968	8.889	13031823	11647984	100.093	98.084 ✓
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.392	8.478f	6131421	4214502	374.566	143.015 #
37) Toxaphene...	7.705	8.804	1396635	1182984	44.457	29.436 #
38) Toxaphene...	8.000	8.840	701406	1251261	6.805	19.341 #
39) Toxaphene...	8.245	8.889	862024	11647984	6.347	115.948 #
40) Toxaphene...	8.452	9.060f	275018	431257	5.074	7.522 #
41) Toxaphene...	8.547	9.458	65030	479698	0.855	7.262 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012030.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 22:27
 Operator : MJB
 Sample : 0B01012-CALM
 Misc : A19K309, CHLOR 200 ppb
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:52:17 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

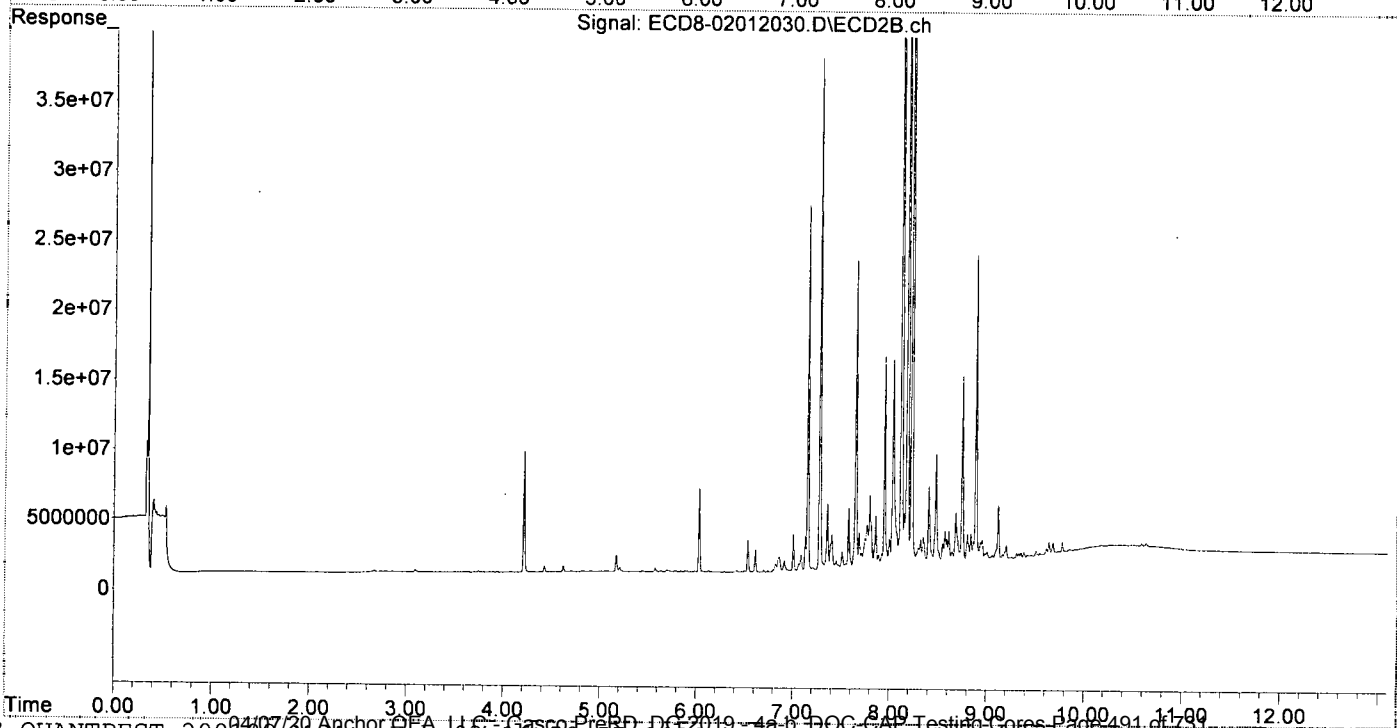
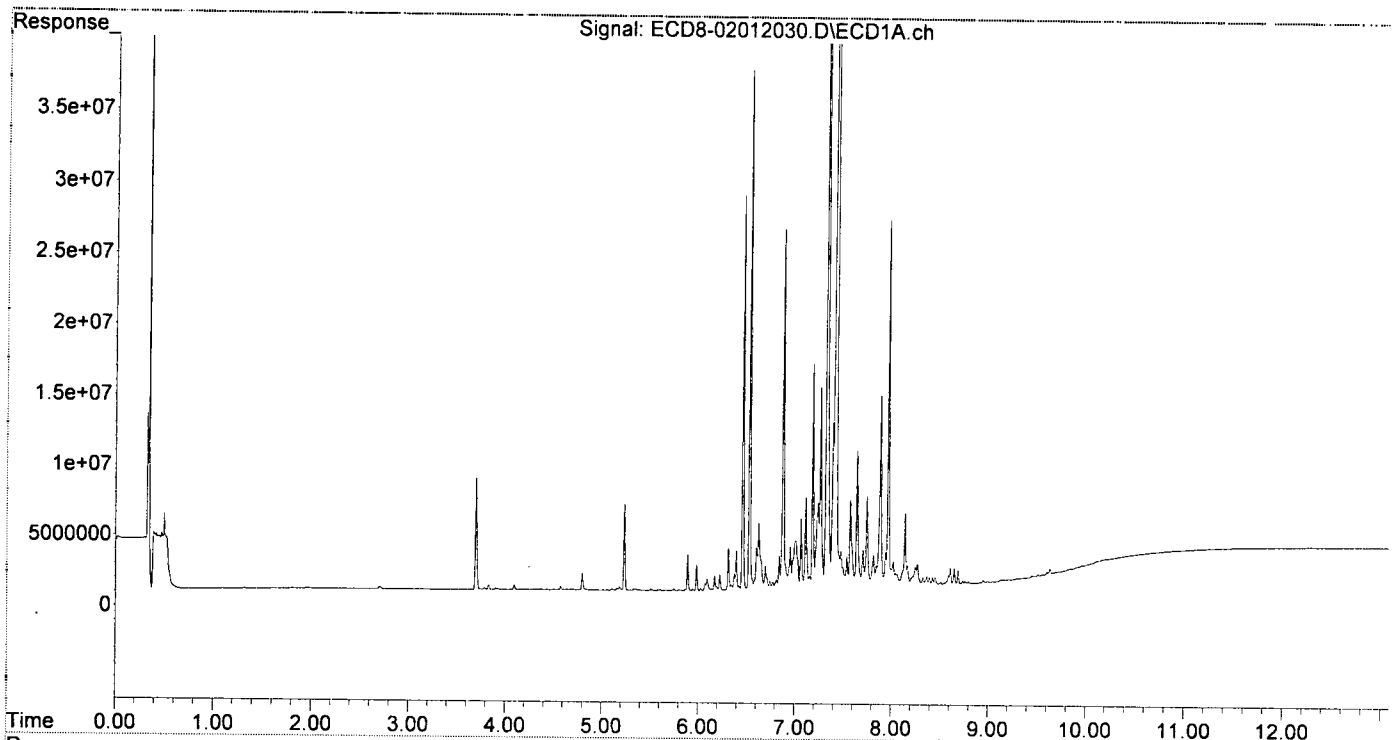
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.985	47307	82645	0.014	0.024 #
22) S DCBP (S)	9.511	10.540	261414	1006590	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.844	6.612f	28614	1618187	0.006	0.455 #
3) g-BHC	6.136	6.911	96732	803515	0.023	0.248 #
4) b-BHC	6.188	7.004f	236177	2646179	0.136	1.524 #
5) Heptachlor	6.529	7.275	36635645	36599791	8.914	8.692
6) d-BHC	6.339	7.208	360238	227832	0.211	0.163
7) Aldrin	6.772	7.551	462178	409648	0.114	0.122
8) Heptachlo...	7.239	7.997	6047845	2063683	1.638	0.575 #
9) trans-Chl...	7.326	8.118	79833983	83675101	21.229	22.503
10) cis-Chlor...	7.420	8.225	97470804	70682705	26.542	20.065
11) Endosulfa...	7.520	8.298f	852473	1384541	0.246	0.419 #
12) 4,4'-DDE	7.497	8.321	1403732	1966053	0.423	0.719 #
13) Dieldrin	7.705	8.478	2595526	8029127	0.681	2.318 #
14) Endrin	7.845	8.722	1495100	1090549	0.458	0.372
15) 4,4'-DDD	7.885f	8.748	13532749	13519868	5.317	5.748
16) Endosulfa...	8.018	8.865	1716081	1735572	0.574	0.627
17) 4,4'-DDT	8.141f	8.985	5103729	801564	1.899	0.301 #
18) Endrin Al...	8.327f	9.060f	540492	666830	0.205	0.252
19) Endosulfa...	8.609	9.262	1134315	470085	0.396	0.099 #
20) Methoxychlor	8.453	9.460	509291	551943	0.422	0.147 #
21) Endrin Ke...	8.795	9.682	165163	1404203	0.048	0.275 #
23) Hexachlor...	3.088	3.680	42365	7312	0.011	0.002 #
24) Hexachlor...	5.670	6.467f	36523	59797	0.011	BelowCal #
25) Oxychlorane	7.154	7.921	828720	1106402	0.090	0.346 #
26) 2,4'-DDE	7.239	8.118	6047845	83675101	2.616	36.812 #
27) trans-Non...	7.420	8.181	97470804	64146004	26.586	17.771 #
28) 2,4'-DDD	7.643f	8.478	9626732	8029127	4.970	4.194
29) 2,4'-DDT	7.813f	8.722	2172447	1090549	0.908	0.463 #
30) cis-Nonac...	7.885	8.748	13532749	13519868	3.325	3.393
31) Mirex	8.547	9.682	127683	1404203	8199.076	0.426 #
32) Chlordane...	7.326	8.118	79833983	83675101	199.346	192.589
33) Chlordane...	7.420	8.225	97470804	70682705	200.422	194.421
34) Chlordane...	7.967	8.889	25873455	22148725	198.725	186.507
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.391	8.478f	11738098	8029127	717.075	272.460 #
37) Toxaphene...	7.705	8.804	2595526	2252914	82.619	56.058 #
38) Toxaphene...	7.997	8.840	1230596	2268109	14.324	35.058 #
39) Toxaphene...	8.245	8.889	1314715	22148725	13.325	222.465 #
40) Toxaphene...	8.453	9.060f	509291	666830	9.396	11.632
41) Toxaphene...	8.547	9.460	127683	551943	1.679	8.356 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012031.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 22:43
 Operator : MJB
 Sample : 0B01012-CALN
 Misc : A19K310, CHLOR 500 ppb
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:52:26 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

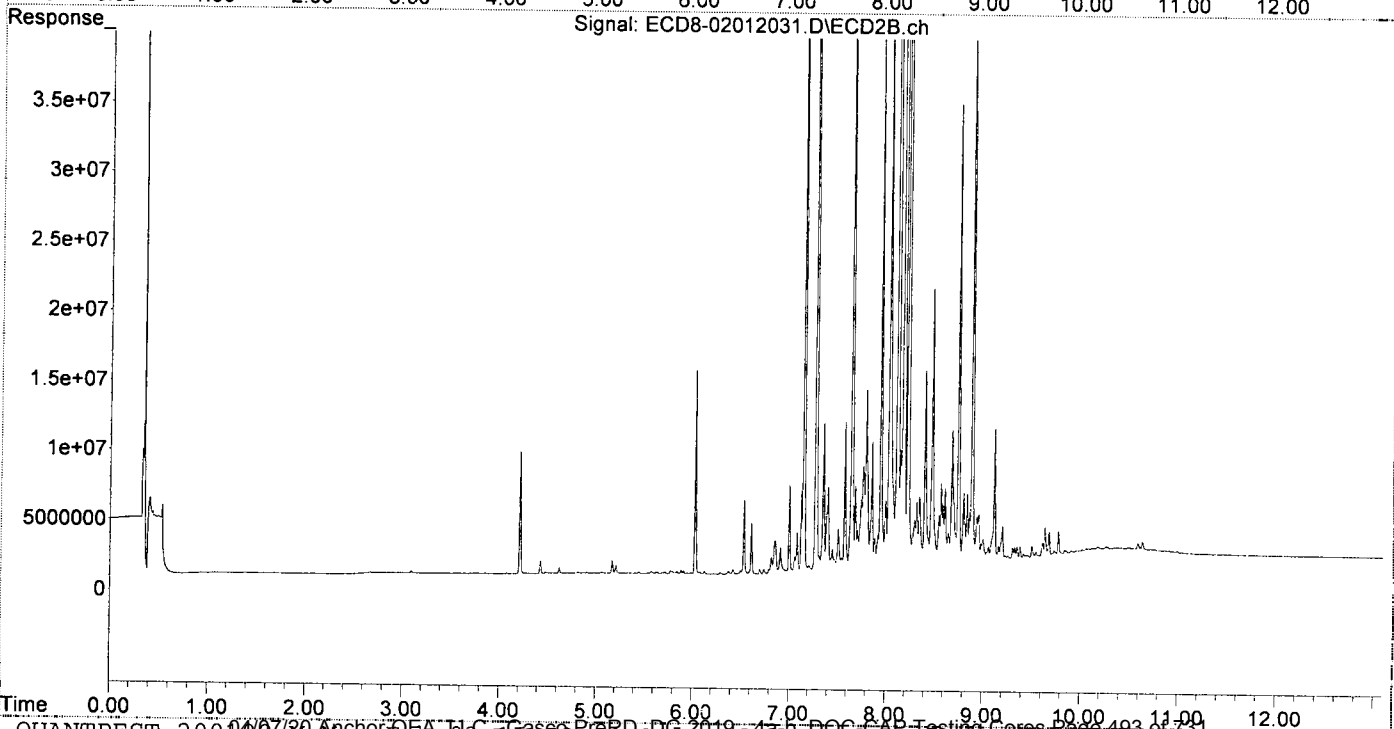
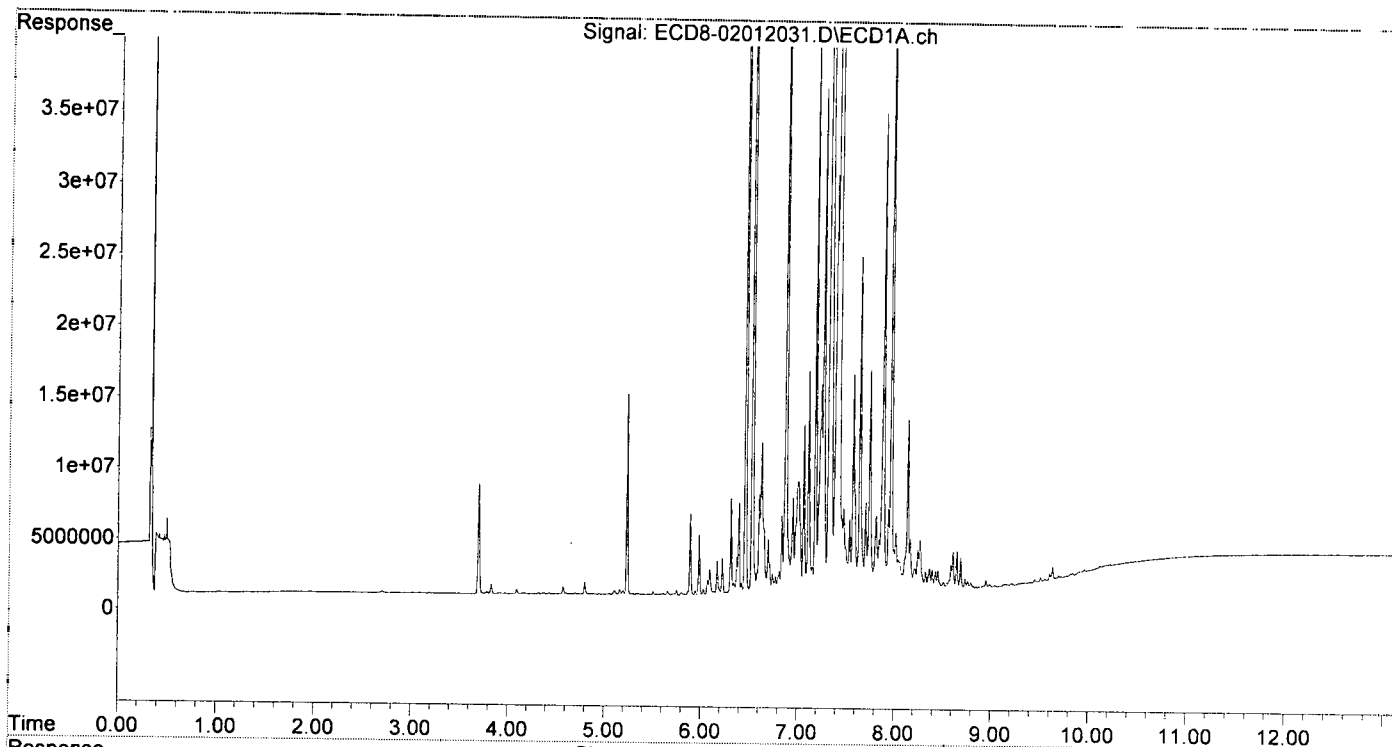
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.984	109867	106671	0.031	0.031
22) S DCBP (S)	9.512	10.555	403486	1150905	BelowCal	0.062
Target Compounds						
2) a-BHC	5.842	6.611f	42377	3578554	0.009	0.913 #
3) g-BHC	6.136	6.911	205837	1873297	0.049	0.522 #
4) b-BHC	6.222f	7.003f	2546716	6255390	1.462	3.603 #
5) Heptachlor	6.529	7.275	90317006	93074444	21.975	22.104
6) d-BHC	6.339	7.208	792770	548028	0.336	0.254
7) Aldrin	6.772	7.544	1162442	975925	0.288	0.273
8) Heptachlo...	7.240	7.997	14641114	4963440	3.965	1.383 #
9) trans-Chl...	7.326	8.117	194.2E6	218.0E6	51.650	58.620
10) cis-Chlor...	7.419	8.225	234.2E6	182.0E6	63.770	51.657
11) Endosulfa...	7.518	8.297	2055816	3534365	0.593	1.069 #
12) 4,4'-DDE	7.497	8.320	3139123	4767148	0.945	1.616 #
13) Dieldrin	7.705	8.478	6264702	20031674	1.643	5.708 #
14) Endrin	7.845	8.721	3653470	2598641	1.119	0.896
15) 4,4'-DDD	7.885f	8.748	33602500	33177553	13.203	13.752
16) Endosulfa...	8.018	8.864	4049327	4007404	1.354	1.486
17) 4,4'-DDT	8.086f	8.985	1101022	1752843	0.410	0.689 #
18) Endrin Al...	8.326f	9.061f	1266260	1526727	0.481	0.577
19) Endosulfa...	8.609	9.286	2599391	679252	0.908	0.183 #
20) Methoxychlor	8.452	9.460	1320684	852256	1.095	0.430 #
21) Endrin Ke...	8.795	9.682	396697	2481189	0.115	0.657 #
23) Hexachlor...	3.091	3.701f	44969	25180	0.012	0.005 #
24) Hexachlor...	5.656f	6.467f	280051	54827	0.083	BelowCal #
25) Oxylchlorane	7.151	7.920	1812015	2689234	0.410	0.841 #
26) 2,4'-DDE	7.240	8.117	14641114	218.0E6	6.332	95.897 #
27) trans-Non...	7.419	8.181	234.2E6	164.1E6	63.876	45.459 #
28) 2,4'-DDD	7.643f	8.478	23582099	20031674	12.176	10.464
29) 2,4'-DDT	7.813	8.721	5289165	2598641	2.210	1.169 #
30) cis-Nonac...	7.885	8.748	33602500	33177553	8.257	8.325
31) Mirex	8.547	9.682	428754	2481189	8198.952	0.947 #
32) Chlordane...	7.326	8.117	194.2E6	218.0E6	485.002	501.695
33) Chlordane...	7.419	8.225	234.2E6	182.0E6	481.528	500.533
34) Chlordane...	7.966	8.889	61785001	58496819	474.548	492.582
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.391	8.478f	29361049	20031674	1793.654	679.755 #
37) Toxaphene...	7.705	8.804	6264702	5397700	199.415	134.308 #
38) Toxaphene...	7.996	8.840	2898693	5313123	38.033	82.124 #
39) Toxaphene...	8.245	8.889	2776612	58496819	35.852	579.153 #
40) Toxaphene...	8.452	9.061f	1320684	1526727	24.366	26.631
41) Toxaphene...	8.547	9.460	428754	852256	5.637	12.902 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:26 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012032.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 23:00
 Operator : MJB
 Sample : 0B01012-CALO
 Misc : A19K311, CHLOR 1000 ppb
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:52:34 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

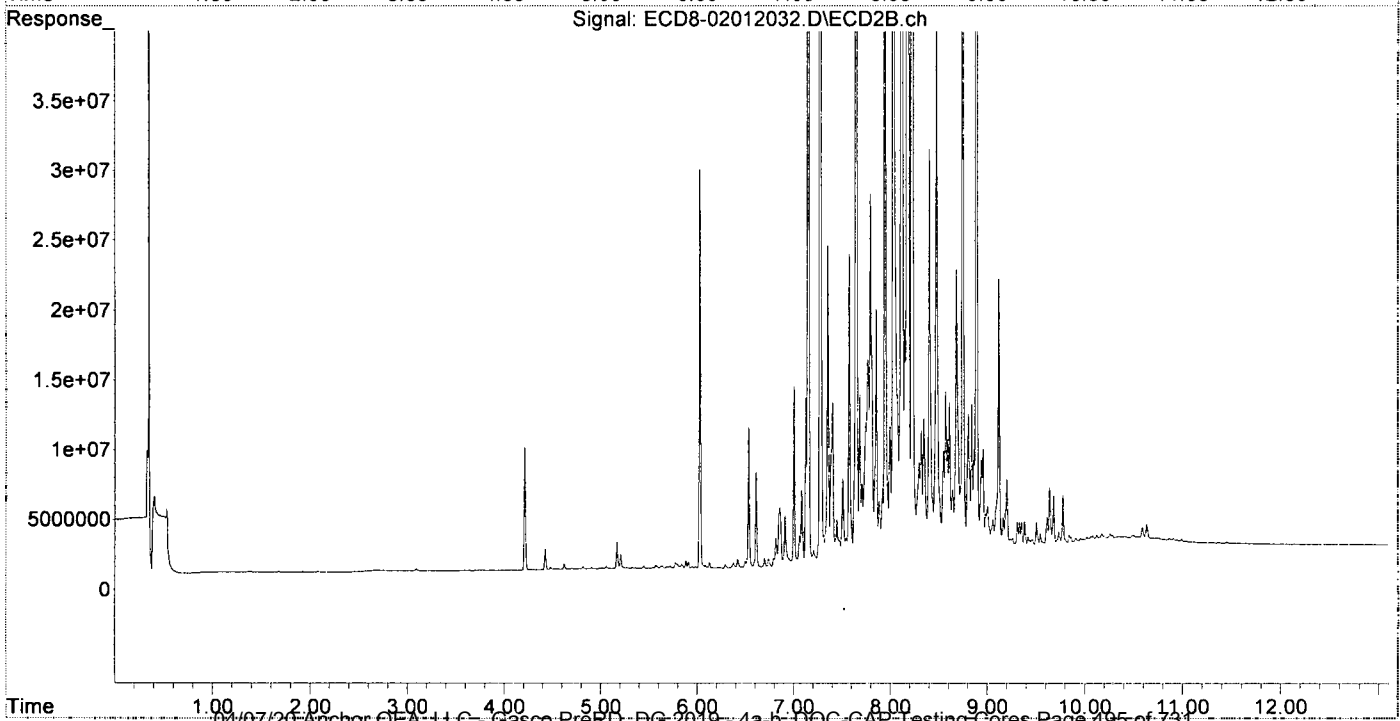
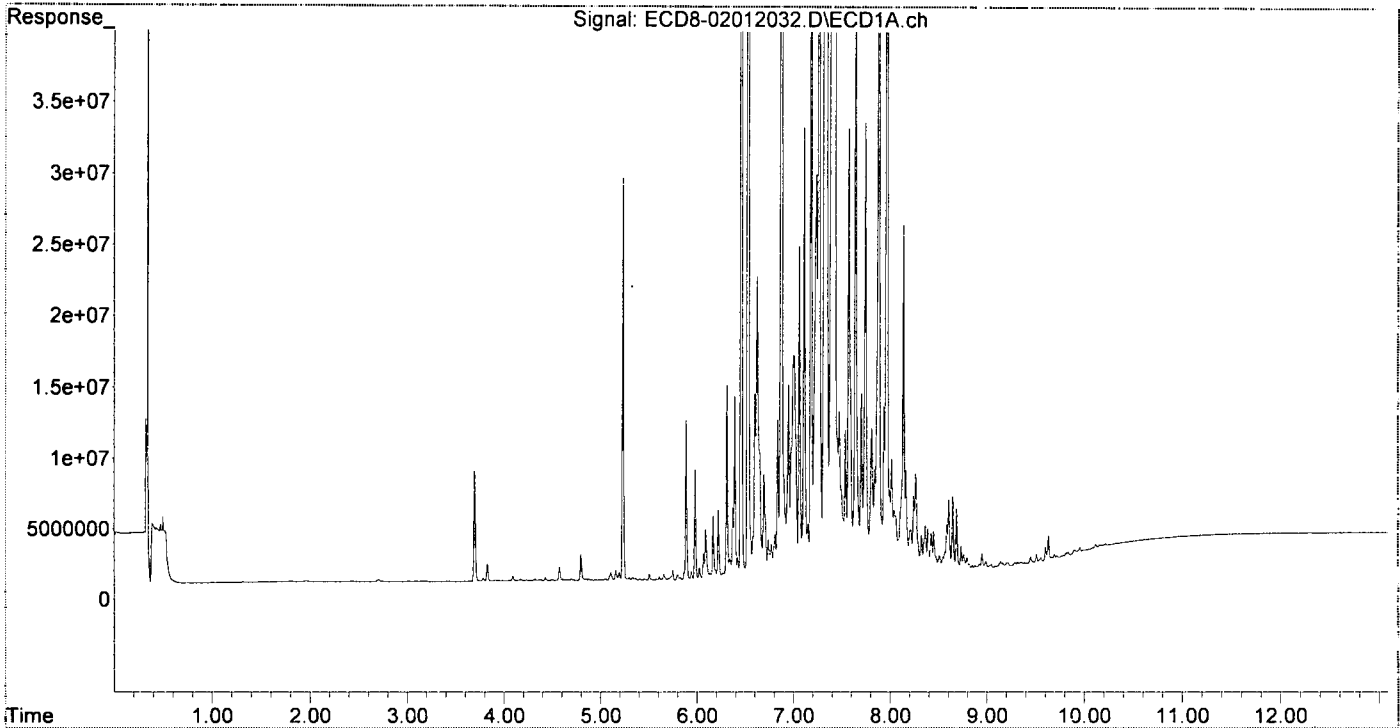
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	206224	122190	0.059	0.035 #
22) S DCBP (S)	9.510	10.547	660494	961665	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.824	6.611f	187012	6740232	0.040	1.650 #
3) g-BHC	6.136	6.910	387178	3574704	0.093	0.957 #
4) b-BHC	6.221f	6.979	4874664	395853	2.799	0.228 #
5) Heptachlor	6.529	7.274	183.6E6	195.9E6	44.674	46.522 #
6) d-BHC	6.339	7.226	1376061	611948	0.505	0.272 #
7) Aldrin	6.770	7.546	2275193	1813532	0.563	0.496 #
8) Heptachlo...	7.238	7.997	28209573	9618764	7.639	2.680 #
9) trans-Chl...	7.325	8.118	407.1E6	461.1E6	108.247	124.010 #
10) cis-Chlor...	7.419	8.226	468.0E6	384.8E6	127.430	109.237 #
11) Endosulfa...	7.516	8.298f	3909946	6920995	1.127	2.094 #
12) 4,4'-DDE	7.496	8.321	5965358	9206495	1.796	3.030 #
13) Dieldrin	7.704	8.478	12680776	43861813	3.325	12.342 #
14) Endrin	7.844	8.722	7267481	5105052	2.227	1.765 #
15) 4,4'-DDD	7.885f	8.748	68409568	68082411	26.880	27.221 #
16) Endosulfa...	8.018	8.864	7933861	7721187	2.652	2.884 #
17) 4,4'-DDT	8.140f	8.986	24425440	3056450	9.086	1.219 #
18) Endrin Al...	8.326f	9.060f	2488539	2615287	0.945	0.989 #
19) Endosulfa...	8.609	9.285	4963470	861427	1.734	0.256 #
20) Methoxychlor	8.452	9.466	2726788	1086967	2.260	0.652 #
21) Endrin Ke...	8.794	9.682	781850	4108753	0.226	1.233 #
23) Hexachlor...	3.071	3.699	14573	34979	0.004	0.007 #
24) Hexachlor...	5.655f	6.464	402456	62089	0.120	BelowCal #
25) Oxychlordane	7.151	7.920	3627381	5233846	1.002	1.637 #
26) 2,4'-DDE	7.238	8.118	28209573	461.1E6	12.201	202.866 #
27) trans-Non...	7.419	8.181	468.0E6	340.8E6	127.641	94.407 #
28) 2,4'-DDD	7.642f	8.478	50345506	43861813	25.994	22.913 #
29) 2,4'-DDT	7.812	8.722	10255127	5105052	4.285	2.339 #
30) cis-Nonac...	7.885	8.748	68409568	68082411	16.811	17.084 #
31) Mirex	8.547	9.682	918194	4108753	0.173	1.732 #
32) Chlordane...	7.325	8.118	407.1E6	461.1E6	1016.452	1061.320 #
33) Chlordane...	7.419	8.226	468.0E6	384.8E6	962.225	1058.450 #
34) Chlordane...	7.966	8.890	126.5E6	118.8E6	971.773	1000.759 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D. #
36) Toxaphene...	7.390	8.478f	56502268	43861813	3451.699	1488.407 #
37) Toxaphene...	7.704	8.805	12680776	10263488	403.648	255.381 #
38) Toxaphene...	7.995	8.840	5827238	10916602	79.685	168.736 #
39) Toxaphene...	8.245	8.890	5284639	118.8E6	74.474	1135.609 #
40) Toxaphene...	8.452	9.060f	2726788	2615287	50.308	45.619 #
41) Toxaphene...	8.547	9.466	918194	1086967	12.073	16.456 #
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D. #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:34 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012033.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 23:17
 Operator : MJB
 Sample : 0B01012-CALP
 Misc : A19K306, CHLOR 2000 ppb
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:52:45 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

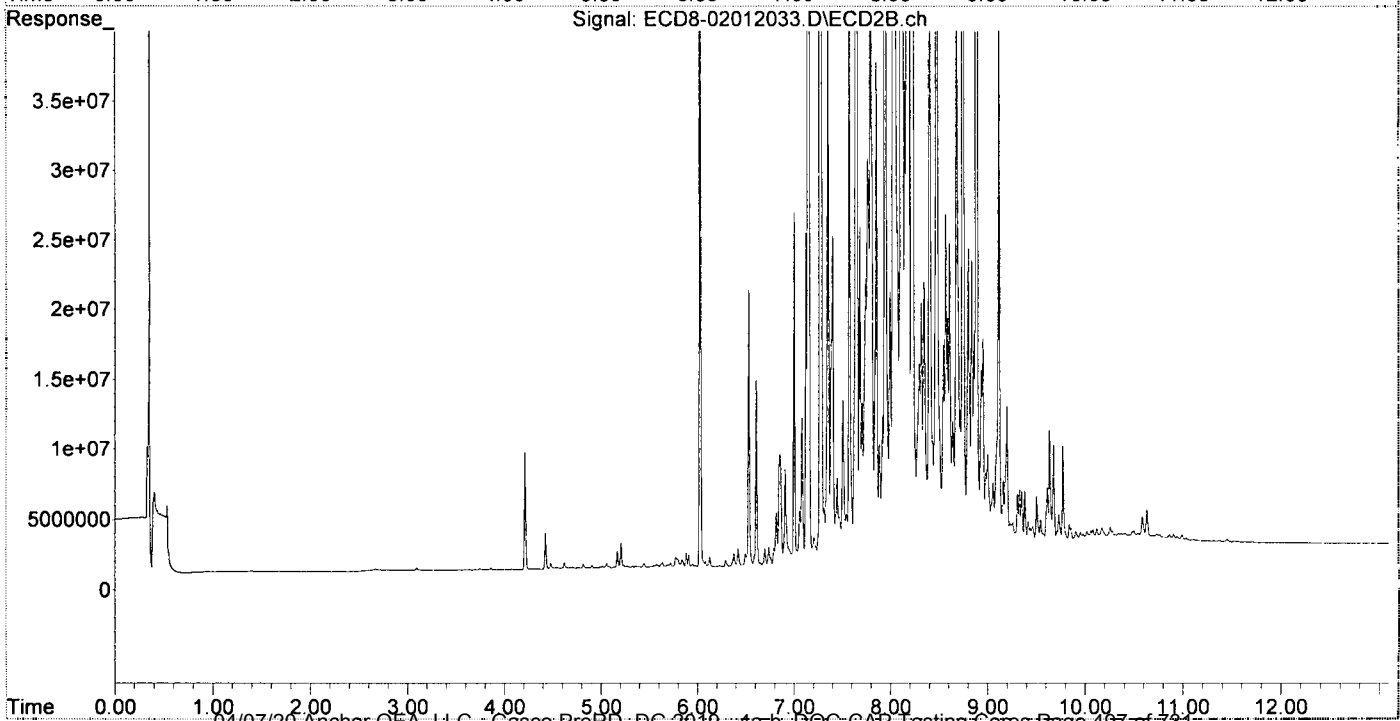
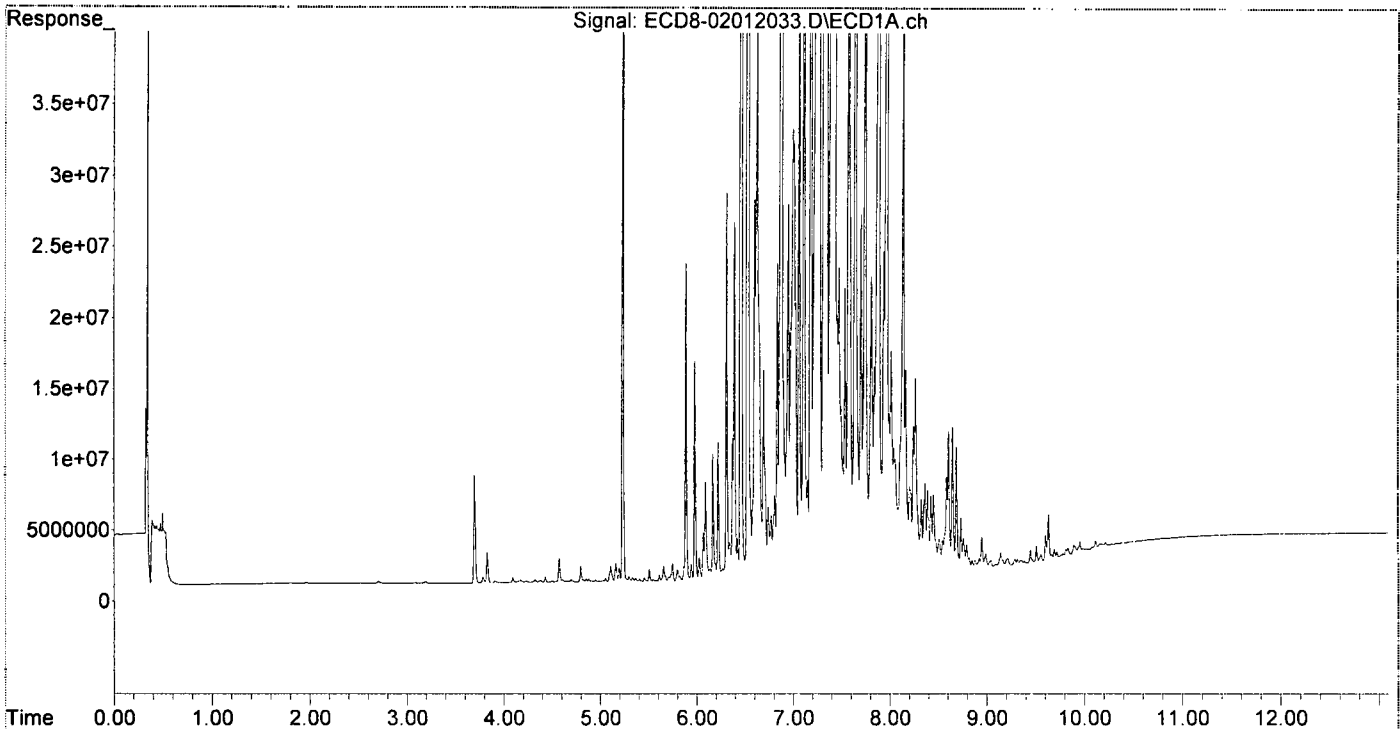
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.980	386961	124322	0.111	0.036 #
22) S DCBP (S)	9.511	10.548	1159083	1147394	0.119	0.060 #
Target Compounds						
2) a-BHC	5.824	6.611f	357462	13261627	0.076	3.165 #
3) g-BHC	6.137	6.910	720392	6754311	0.173	1.768 #
4) b-BHC	6.222f	6.978	9624376	781936	5.526	0.450 #
5) Heptachlor	6.529	7.275	360.1E6	396.7E6	87.605	94.215
6) d-BHC	6.339	7.226	2521384	1196993	0.836	0.439 #
7) Aldrin	6.771	7.546	4273588	3424384	1.058	0.926
8) Heptachlo...	7.239	7.996	56691957	19134242	15.352	5.330 #
9) trans-Chl...	7.325	8.118	780.0E6	962.8E6	207.406	258.937
10) cis-Chlor...	7.420	8.225	959.8E6	801.0E6	261.356	227.371
11) Endosulfa...	7.538	8.299f	20165895	13926309	5.814	4.214 #
12) 4,4'-DDE	7.497	8.321	11803551	18201193	3.554	5.871 #
13) Dieldrin	7.704	8.478	25213282	89897819	6.612	24.820 #
14) Endrin	7.844	8.721	14531095	10503711	4.452	3.629
15) 4,4'-DDD	7.885f	8.748	130.7E6	146.5E6	51.352	54.753
16) Endosulfa...	8.018	8.863	15569981	15841682	5.205	5.917
17) 4,4'-DDT	8.086f	8.984	4459244	5944192	1.659	2.387 #
18) Endrin Al...	8.327f	9.059f	4980847	5206868	1.892	1.970
19) Endosulfa...	8.609	9.284	9654587	1569721	3.373	0.539 #
20) Methoxychlor	8.452	9.467	5212320	1964697	4.320	1.478 #
21) Endrin Ke...	8.794	9.682	1616801	7713606	0.468	2.504 #
23) Hexachlor...	3.087	3.680	42512	11195	0.011	0.002 #
24) Hexachlor...	5.656f	6.462	1057378	74636	0.315	BelowCal #
25) Oxychlordane	7.151	7.920	6735744	10344973	2.014	3.235 #
26) 2,4'-DDE	7.239	8.118	56691957	962.8E6	24.520	423.592 #
27) trans-Non...	7.420	8.181	959.8E6	730.0E6	261.789	202.243
28) 2,4'-DDD	7.643f	8.478	99644686	89897819	51.448	46.962
29) 2,4'-DDT	7.812	8.721	20874974	10503711	8.723	4.842 #
30) cis-Nonac...	7.885	8.748	130.7E6	146.5E6	32.115	36.772
31) Mirex	8.547	9.682	1984719	7713606	0.613	3.470 #
32) Chlordane...	7.325	8.118	780.0E6	962.8E6	1947.564	2216.071
33) Chlordane...	7.420	8.225	959.8E6	801.0E6	1973.498	2203.116
34) Chlordane...	7.966	8.889	253.1E6	258.6E6	1944.246	2177.312
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.390	8.478f	111.9E6	89897819	6838.359	3050.593 #
37) Toxaphene...	7.704	8.804	25213282	21968333	802.576	546.626 #
38) Toxaphene...	7.996	8.840	11180820	21091744	155.922	326.011 #
39) Toxaphene...	8.245	8.889	10122748	258.6E6	148.891	2292.826 #
40) Toxaphene...	8.452	9.059f	5212320	5206868	96.164	90.824
41) Toxaphene...	8.547	9.467	1984719	1964697	26.096	29.744
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:52:45 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012036.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:08
 Operator : MJB
 Sample : 0B01012-CALQ
 Misc : A20B005, TOX 10 ppb
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:53:18 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

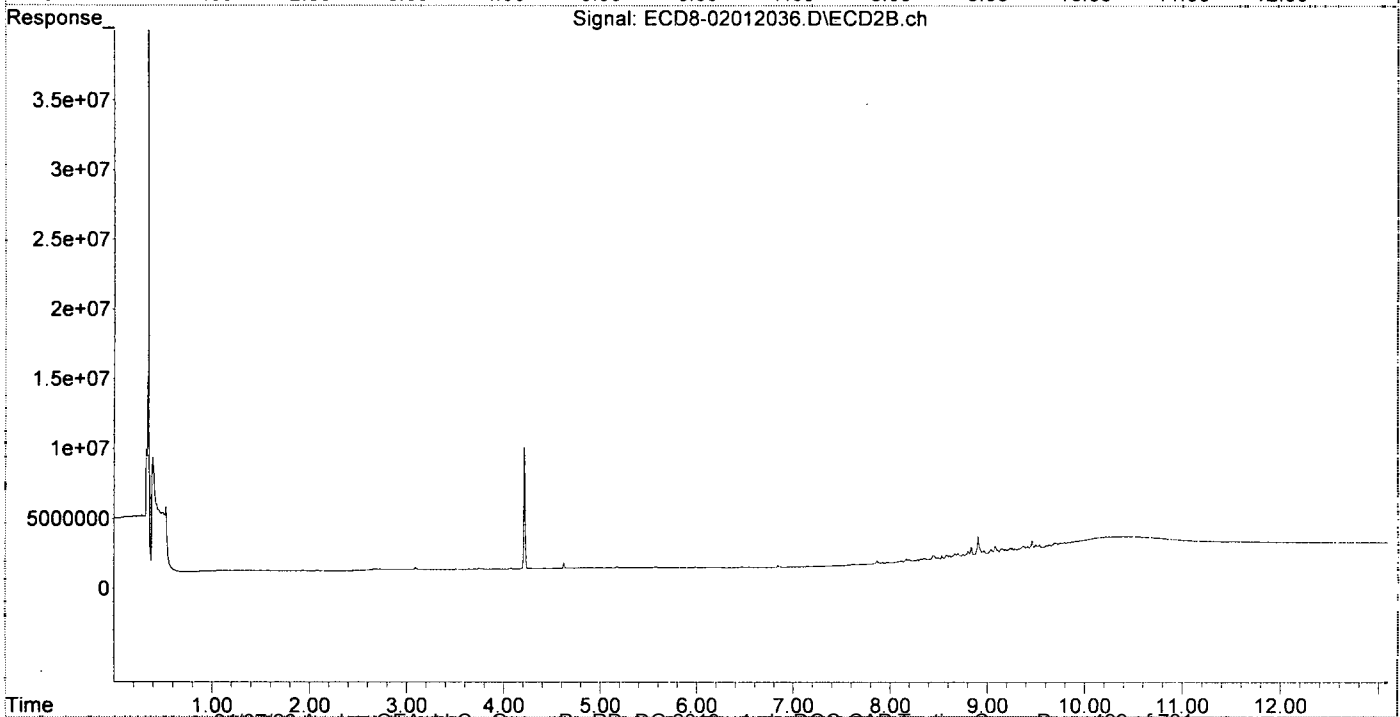
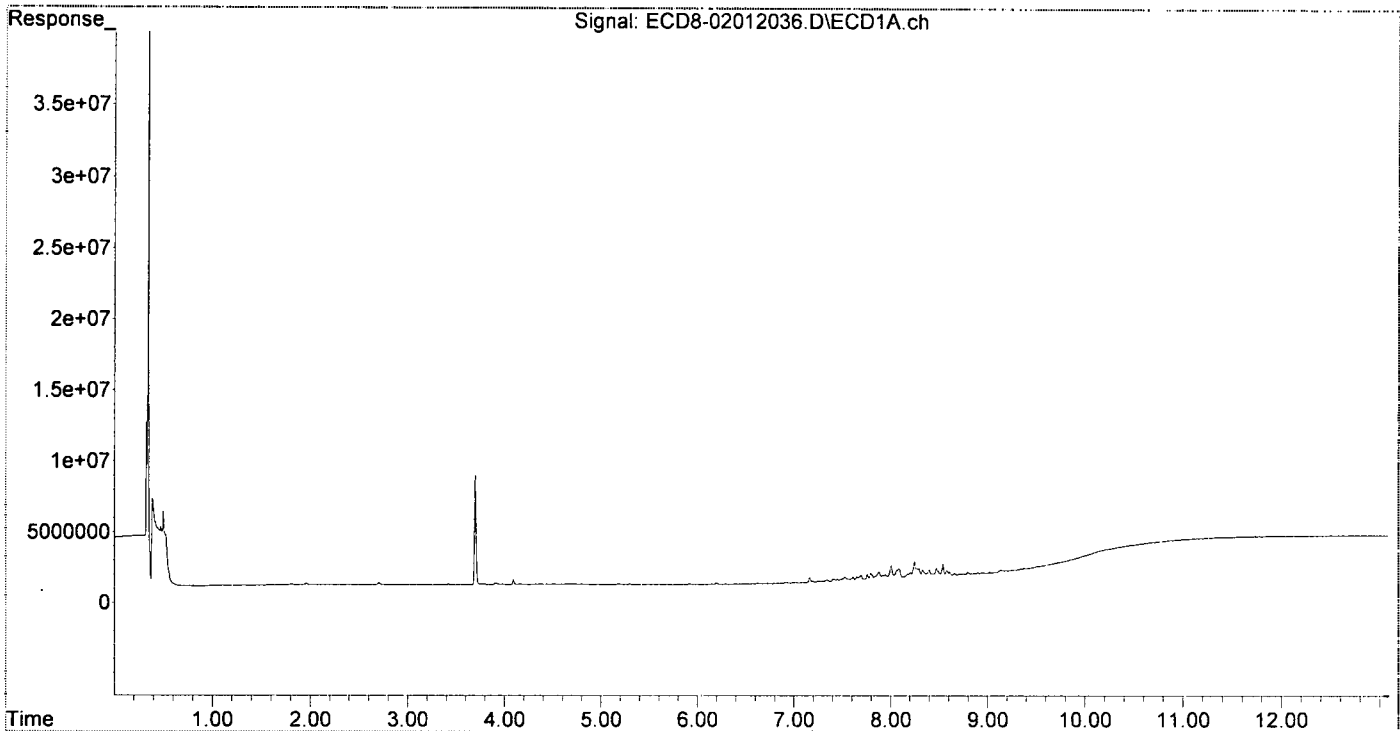
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.983	28712	46121	0.008	0.013 #
22) S DCBP (S)	9.508	10.533	128410	317278	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.850	6.577	30270	18605	0.006	0.080 #
3) g-BHC	6.149f	6.894	24417	14094	0.006	0.046 #
4) b-BHC	6.193	6.958	125309	12830	0.072	0.007 #
5) Heptachlor	6.529	7.275	12310	10539	0.003	0.003
6) d-BHC	0.000	7.223	0	22208	N.D.	0.104 #
7) Aldrin	6.769	7.541	9112	11869	0.002	0.015 #
8) Heptachlo...	7.256f	7.973	95672	80946	0.026	0.023
9) trans-Chl...	7.335	8.118	100371	99692	0.027	0.027
10) cis-Chlor...	7.412	8.206	163780	94248	0.045	0.027 #
11) Endosulfa...	7.524	8.283	260752	107672	0.075	0.033 #
12) 4,4'-DDE	7.498	8.347	146908	129158	0.044	0.130 #
13) Dieldrin	7.694	8.495	357259	113639	0.094	0.065 #
14) Endrin	7.840	8.702	193265	291525	0.066	0.094 #
15) 4,4'-DDD	7.923	8.751	275869	173974	0.108	0.117
16) Endosulfa...	8.006	8.838	923034	694351	0.309	0.233
17) 4,4'-DDT	8.085f	8.967	684810	319385	0.255	0.105 #
18) Endrin Al...	8.294	9.081	605182	574323	0.230	0.217
19) Endosulfa...	8.609	9.283	273945	270709	0.096	0.019 #
20) Methoxychlor	8.444	9.463	193265	749407	0.160	0.333 #
21) Endrin Ke...	8.792	9.688	172825	386660	0.050	BelowCal #
23) Hexachlor...	3.074	3.699	21692	65726	0.006	0.014 #
24) Hexachlor...	5.682	6.448	19881	34257	0.006	BelowCal #
25) Oxychlorane	7.161	7.924	362444	73186	BelowCal	0.023
26) 2,4'-DDE	7.256	8.118	95672	99692	0.041	0.044
27) trans-Non...	7.412	8.192	163780	133847	0.045	0.037
28) 2,4'-DDD	7.611	8.495	233550	113639	0.121	0.059 #
29) 2,4'-DDT	7.793	8.702	443186	291525	0.185	0.088 #
30) cis-Nonac...	7.882	8.751	503875	173974	0.124	0.044 #
31) Mirex	8.541	9.688	844549	386660	0.142	BelowCal #
32) Chlordane...	7.335	8.118	100371	99692	0.251	0.229
33) Chlordane...	7.412	8.206	163780	94248	0.337	0.259
34) Chlordane...	7.943f	8.907	287963	1372328	2.212	11.556 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.402	8.455	169507	273928	10.355	9.295
37) Toxaphene...	7.694	8.803	357259	364064	11.372	9.059
38) Toxaphene...	8.006	8.838	923034	694351	9.953	10.732
39) Toxaphene...	8.246	8.907	1100625	1372328	10.025	10.079
40) Toxaphene...	8.472	9.081	585949	574323	10.810	10.018
41) Toxaphene...	8.541	9.463	844549	749407	11.105	11.345
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:18 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:24
 Operator : MJB
 Sample : 0B01012-CALR
 Misc : A19J417, TOX 50 ppb
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:53:30 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

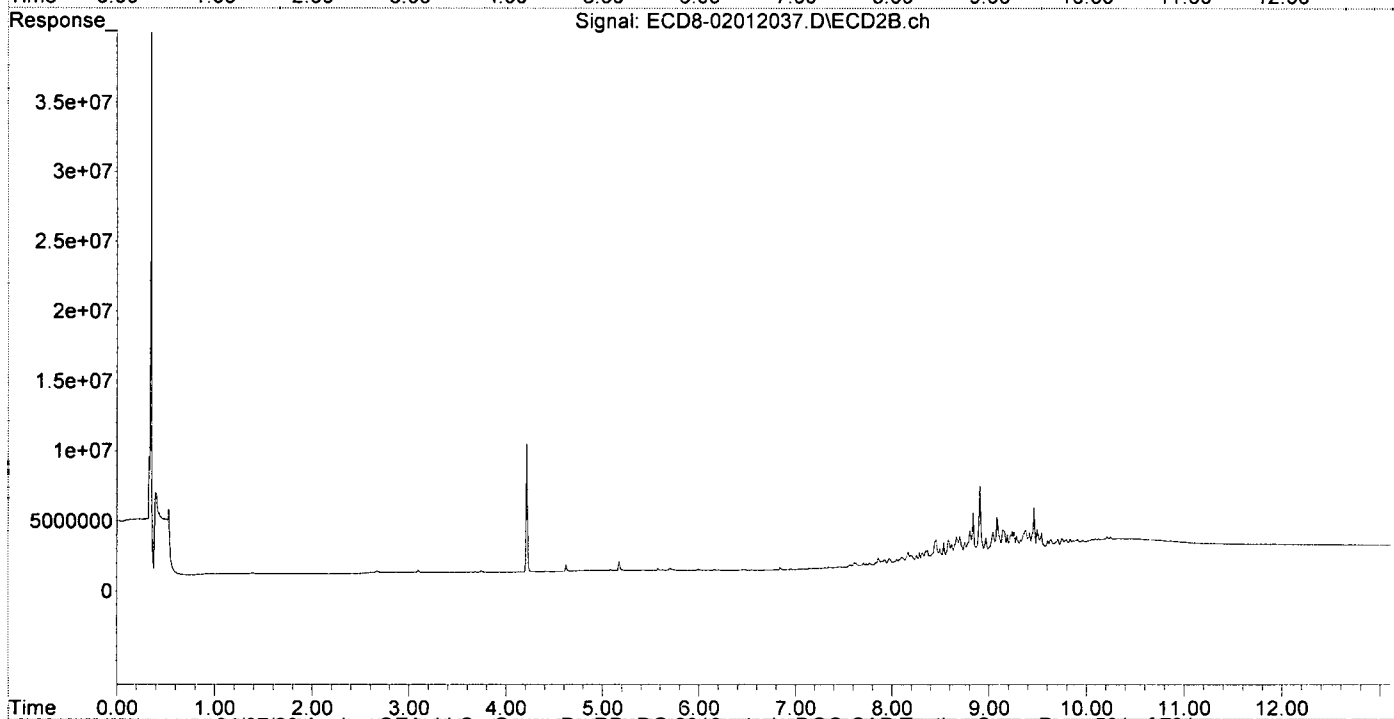
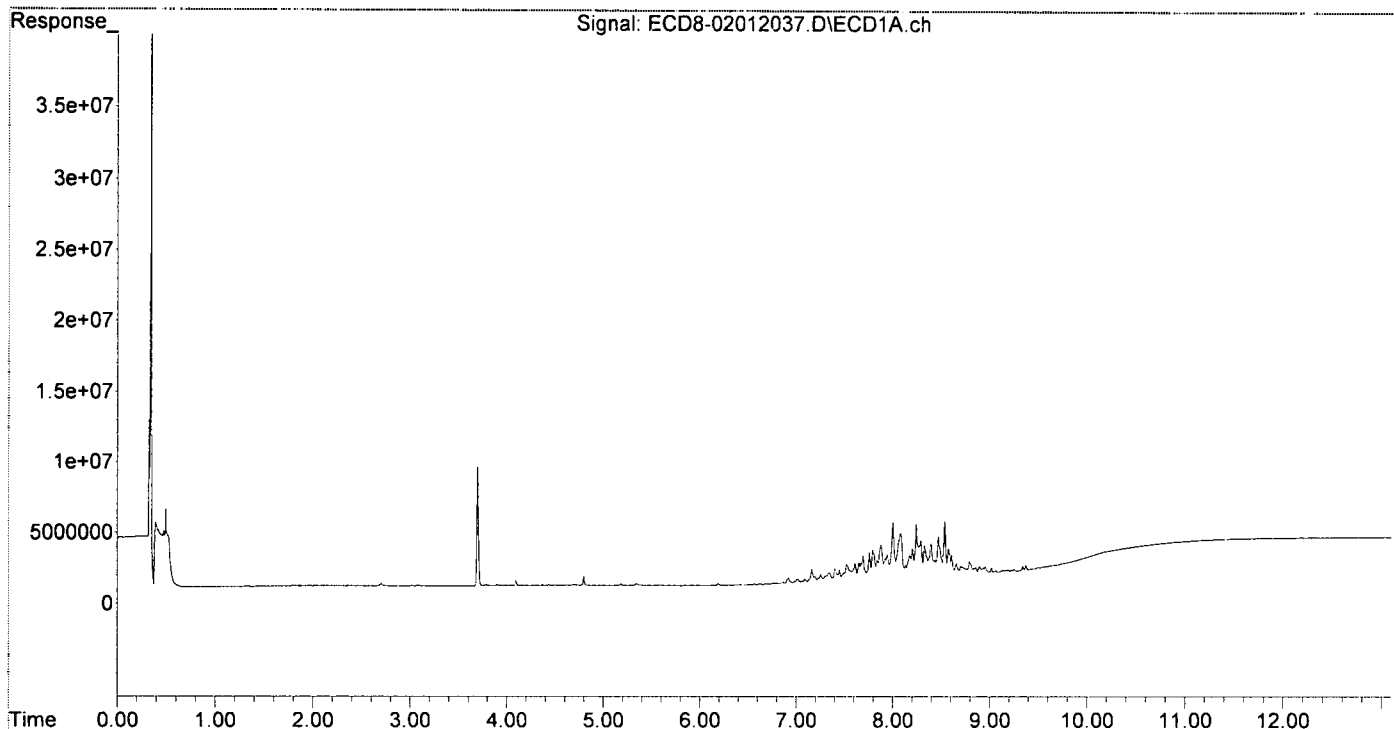
MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.986	0	80701	N.D.	0.023 #
22) S DCBP (S)	9.501	10.538	123893	268561	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.850	6.585	34223	12874	0.007	0.079 #
3) g-BHC	6.144f	6.891	32070	17922	0.008	0.047 #
4) b-BHC	6.191	6.955	153691	30896	0.088	0.018 #
5) Heptachlor	6.528	7.280	30551	22684	0.007	0.005 #
6) d-BHC	6.368f	7.224	15502	35717	0.111	0.108
7) Aldrin	6.768	7.566f	57242	145324	0.014	0.051 #
8) Heptachlo...	7.233	7.973	272107	386153	0.074	0.108 #
9) trans-Chl...	7.312	8.100	380254	414869	0.101	0.112
10) cis-Chlor...	7.400f	8.206	862137	427444	0.235	0.121 #
11) Endosulfa...	7.524	8.283	1126334	609838	0.325	0.185 #
12) 4,4'-DDE	7.482	8.347	442853	712924	0.133	0.317 #
13) Dieldrin	7.693	8.494	1682151	768101	0.441	0.252 #
14) Endrin	7.840	8.701	1294727	1523241	0.397	0.523 #
15) 4,4'-DDD	7.922	8.750	1429529	1057977	0.562	0.496
16) Endosulfa...	8.004	8.839	3882297	3122967	1.298	1.152
17) 4,4'-DDT	8.087f	8.968	3122037	1285216	1.161	0.498 #
18) Endrin Al...	8.293	9.083	2551552	2697421	0.969	1.020
19) Endosulfa...	8.609	9.283	1408400	1217934	0.492	0.398
20) Methoxychlor	8.444	9.464	1103179	3159313	0.914	2.596 #
21) Endrin Ke...	8.793	9.707f	873614	745112	0.253	0.041 #
23) Hexachlor...	3.084	3.679	67660	55651	0.017	0.011 #
24) Hexachlor...	5.682	6.450	56647	61848	0.017	BelowCal #
25) Oxychlorane	7.160	7.922	925553	316825	0.122	0.099
26) 2,4'-DDE	7.233	8.100	272107	414869	0.118	0.183 #
27) trans-Non...	7.400	8.192	862137	491663	0.235	0.136 #
28) 2,4'-DDD	7.610	8.494	1169752	768101	0.604	0.401 #
29) 2,4'-DDT	7.793	8.701	2020564	1523241	0.844	0.666
30) cis-Nonac...	7.882	8.750	2370728	1057977	0.583	0.265 #
31) Mirex	8.539	9.707f	3790810	745112	1.359	0.108 #
32) Chlordane...	7.312	8.100	380254	414869	0.949	0.955
33) Chlordane...	7.400	8.206	862137	427444	1.773	1.176 #
34) Chlordane...	7.943f	8.907	1620848	5032751	12.449	42.379 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.400	8.455	862137	1457893	52.668	49.472
37) Toxaphene...	7.693	8.804	1682151	1899624	53.545	47.267
38) Toxaphene...	8.004	8.839	3882297	3122967	52.019	48.271
39) Toxaphene...	8.246	8.907	3672237	5032751	49.647	47.982
40) Toxaphene...	8.473	9.083	2698036	2697421	49.777	47.051
41) Toxaphene...	8.539	9.464	3790810	3159313	49.844	47.829
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:24
 Operator : MJB
 Sample : 0B01012-CALR
 Misc : A19J417, TOX 50 ppb
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:53:30 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:41
 Operator : MJB
 Sample : 0B01012-CALS
 Misc : A19J418, TOX 100 ppb
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:53:42 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

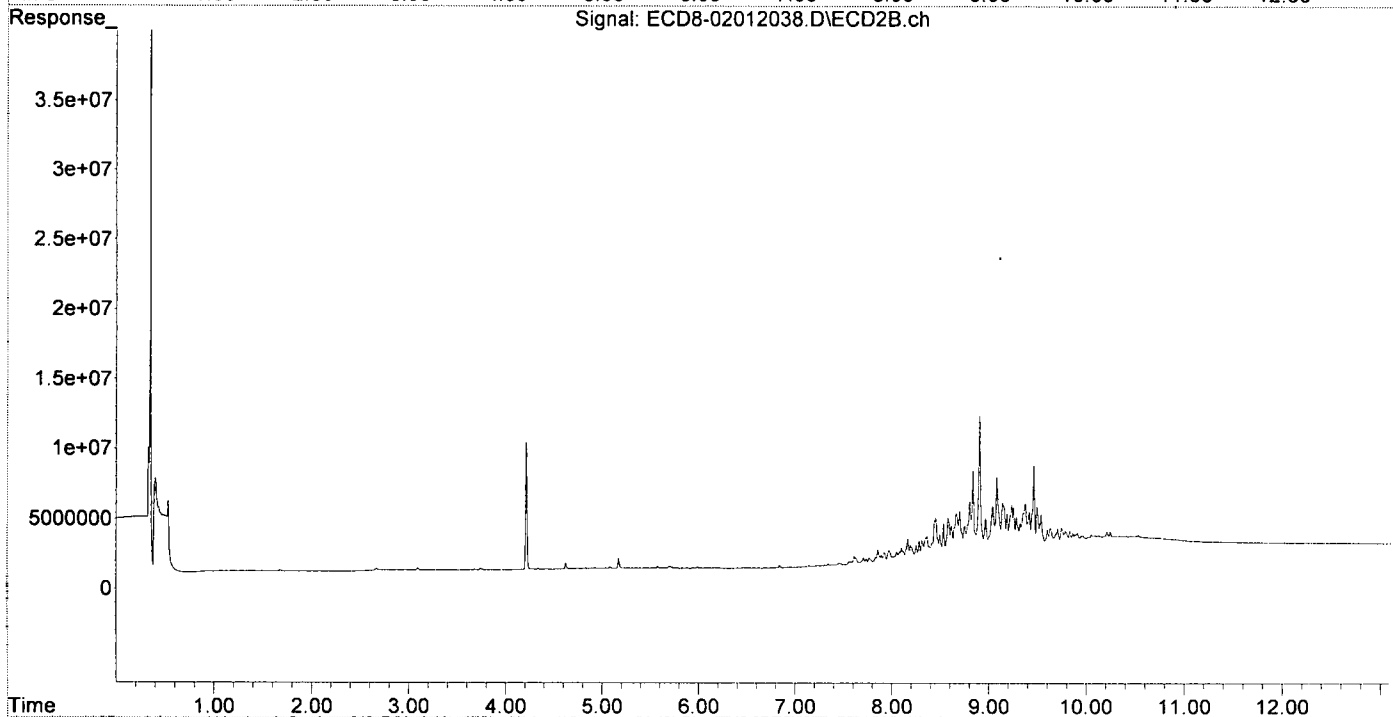
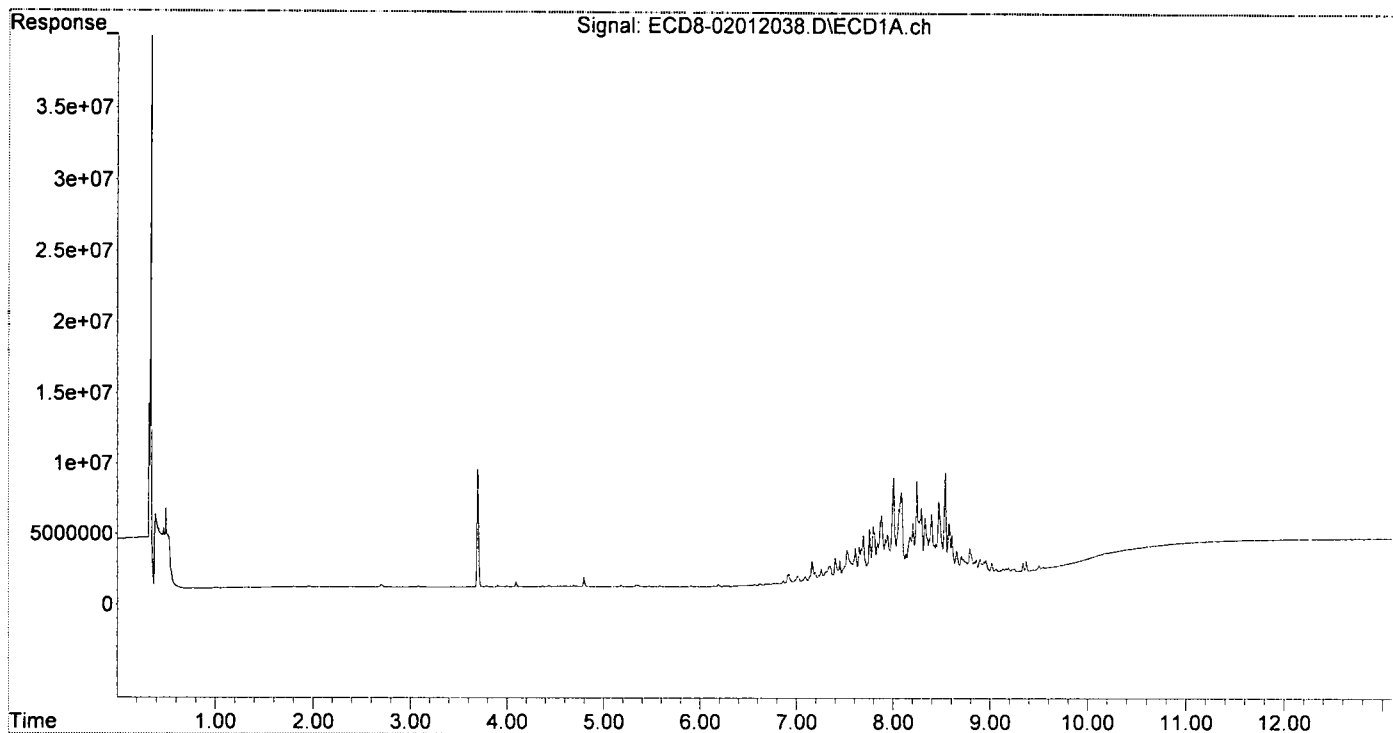
MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.337f	5.984	125814	111210	0.036	0.032
22) S DCBP (S)	9.506	10.535	295577	948995	BelowCal	BelowCal
Target Compounds						
2) a-BHC	5.838	6.581	57804	42176	0.012	0.086 #
3) g-BHC	6.137	6.907	65176	16875	0.016	0.046 #
4) b-BHC	6.188	6.975	184796	21326	0.106	0.012 #
5) Heptachlor	6.527	7.279	61015	47680	0.015	0.011
6) d-BHC	6.353	7.221	41432	60629	0.119	0.115
7) Aldrin	6.766	7.567f	128145	224119	0.032	0.072 #
8) Heptachlo...	7.232	7.973	547277	868398	0.148	0.242 #
9) trans-Chl...	7.313	8.117	760167	729820	0.202	0.196
10) cis-Chlor...	7.428	8.207	808635	1016295	0.220	0.289 #
11) Endosulfa...	7.523	8.282	2141456	1440157	0.617	0.436 #
12) 4,4'-DDE	7.498	8.347	1076140	1632568	0.324	0.612 #
13) Dieldrin	7.693	8.495	3171817	1816907	0.832	0.551 #
14) Endrin	7.837	8.701	2591666	3356589	0.794	1.159 #
15) 4,4'-DDD	7.921	8.750	2761819	2311026	1.085	1.031
16) Endosulfa...	8.004	8.838	7108085	6231660	2.376	2.325
17) 4,4'-DDT	8.086f	8.967	6054794	2779527	2.252	1.106 #
18) Endrin Al...	8.293	9.083	4910937	5637073	1.865	2.132
19) Endosulfa...	8.608	9.283	2795889	2773397	0.977	1.019
20) Methoxychlor	8.443	9.463	2273398	6347466	1.884	5.549 #
21) Endrin Ke...	8.792	9.705f	1806739	1761161	0.523	0.402
23) Hexachlor...	3.084	3.679	76523	68887	0.020	0.014 #
24) Hexachlor...	5.681	6.445	14947	39804	0.004	BelowCal #
25) Oxychlordane	7.160	7.923	1515082	758340	0.314	0.237
26) 2,4'-DDE	7.232	8.117	547277	729820	0.237	0.321 #
27) trans-Non...	7.400	8.193	1687426	1125647	0.460	0.312 #
28) 2,4'-DDD	7.610	8.495	2248412	1816907	1.161	0.949
29) 2,4'-DDT	7.793	8.701	3773923	3356589	1.577	1.524
30) cis-Nonac...	7.880	8.750	4501580	2311026	1.106	0.580 #
31) Mirex	8.539	9.705f	7293127	1761161	2.806	0.599 #
32) Chlordane...	7.313	8.117	760167	729820	1.898	1.680
33) Chlordane...	7.428	8.207	808635	1016295	1.663	2.795 #
34) Chlordane...	7.943f	8.906	3109836	10075815	23.886	84.845 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.400	8.455	1687426	3039636	103.084	103.147
37) Toxaphene...	7.693	8.803	3171817	4024499	100.964	100.139
38) Toxaphene...	8.004	8.838	7108085	6231660	97.914	96.322
39) Toxaphene...	8.245	8.906	6856793	10075815	98.669	99.857
40) Toxaphene...	8.472	9.083	5268375	5637073	97.198	98.328
41) Toxaphene...	8.539	9.463	7293127	6347466	95.894	96.095
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:41
 Operator : MJB
 Sample : 0B01012-CALS
 Misc : A19J418, TOX 100 ppb
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:53:42 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012039.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:58
 Operator : MJB
 Sample : 0B01012-CALT
 Misc : A19J419, TOX 200 ppb
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:53:52 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

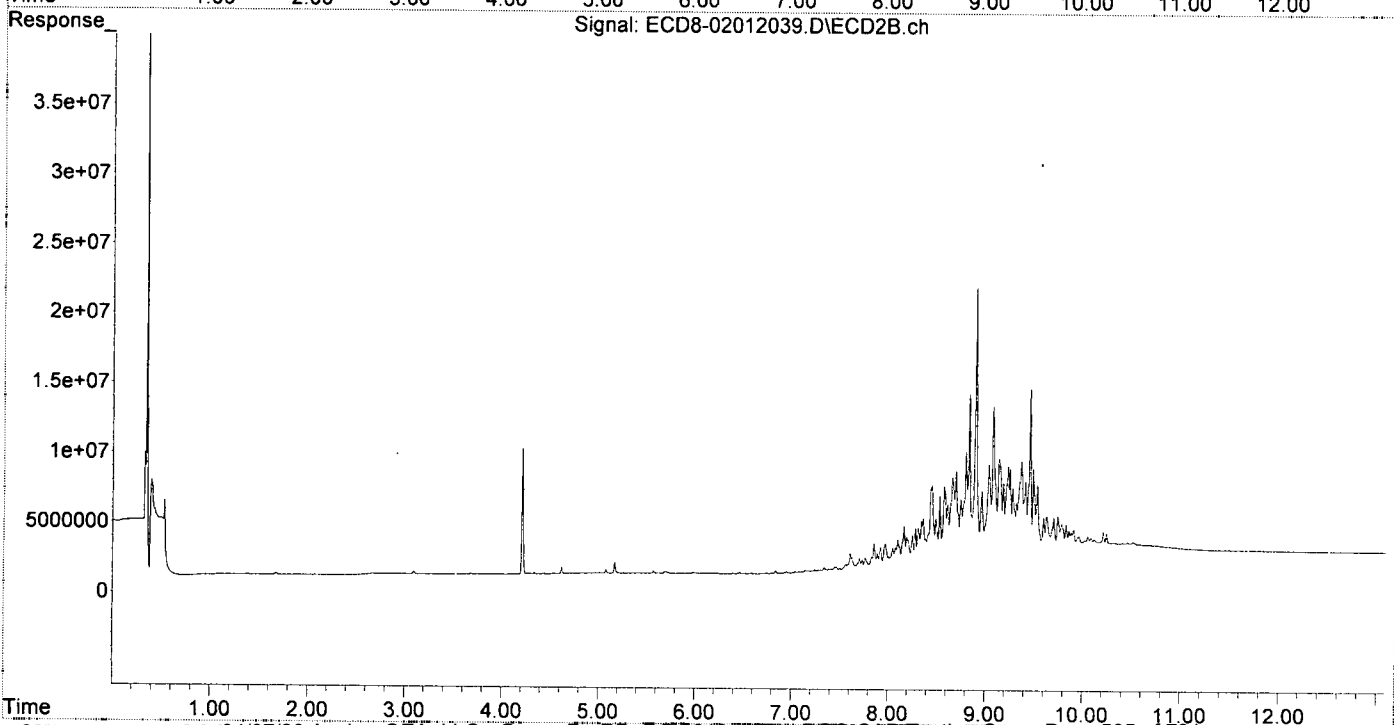
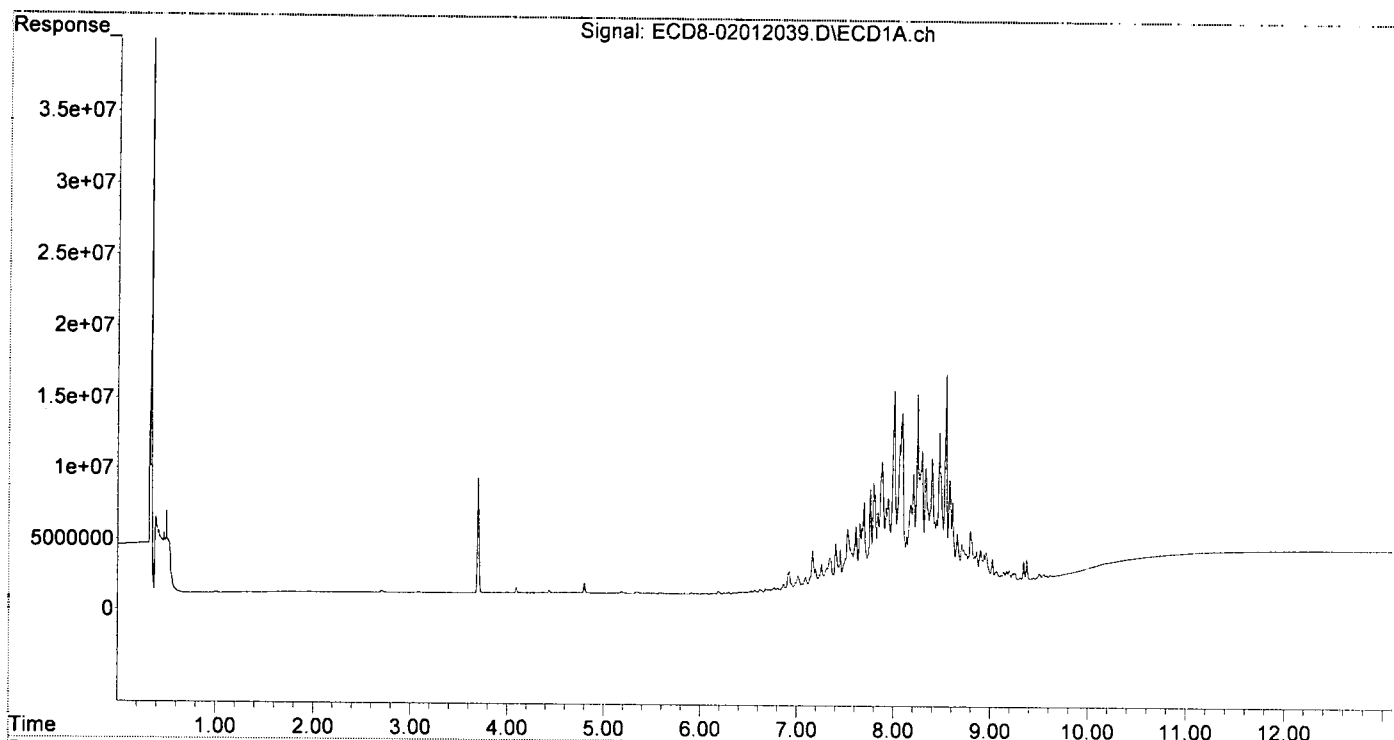
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.335f	5.983	123217	122865	0.035	0.036
22) S DCBP (S)	9.501	10.534	298320	1363903	BelowCal	0.167
Target Compounds						
2) a-BHC	5.835	6.585	73051	60242	0.015	0.090 #
3) g-BHC	6.109	6.906	43247	28398	0.010	0.049 #
4) b-BHC	6.187	6.974	212263	37354	0.122	0.022 #
5) Heptachlor	6.527	7.277	132508	157291	0.032	0.037
6) d-BHC	6.328	7.220	43616	120052	0.119	0.132
7) Aldrin	6.767	7.566f	295018	508920	0.073	0.148 #
8) Heptachlo...	7.231	7.972	1115354	1855621	0.302	0.517 #
9) trans-Chl...	7.310	8.100	1526316	2157258	0.406	0.580 #
10) cis-Chlor...	7.398f	8.206f	3210991	2125651	0.874	0.603 #
11) Endosulfa...	7.522	8.282	4257071	2971466	1.227	0.899 #
12) 4,4'-DDE	7.495	8.345	2150202	3467118	0.647	1.200 #
13) Dieldrin	7.692	8.493	6077785	3606437	1.594	1.061 #
14) Endrin	7.837	8.700	5309717	6956419	1.627	2.406 #
15) 4,4'-DDD	7.920	8.750	5639872	4908688	2.216	2.135
16) Endosulfa...	8.003	8.860	13955658	3801613	4.665	1.409 #
17) 4,4'-DDT	8.086f	8.966	12260352	5462595	4.561	2.193 #
18) Endrin Al...	8.291	9.082	9528641	11485592	3.619	4.344
19) Endosulfa...	8.608	9.282	5751213	5577948	2.009	2.136
20) Methoxychlor	8.443	9.464	4632463	12675921	3.839	11.286 #
21) Endrin Ke...	8.792	9.705f	3675410	3363935	1.063	0.969
23) Hexachlor...	3.082	3.679	83118	81321	0.021	0.017
24) Hexachlor...	5.683	6.464	15191	103458	0.005	BelowCal #
25) Oxychlordane	7.160	7.923	2838980	1590223	0.745	0.497 #
26) 2,4'-DDE	7.231	8.100	1115354	2157258	0.482	0.949 #
27) trans-Non...	7.398	8.192	3210991	2311635	0.876	0.640 #
28) 2,4'-DDD	7.609	8.493	4374168	3606437	2.258	1.884
29) 2,4'-DDT	7.792	8.700	7396159	6956419	3.091	3.200
30) cis-Nonac...	7.880	8.750	8829364	4908688	2.170	1.232 #
31) Mirex	8.539	9.705f	14823031	3363935	5.918	1.373 #
32) Chlordane...	7.310	8.100	1526316	2157258	3.811	4.965 #
33) Chlordane...	7.398f	8.206	3210991	2125651	6.603	5.847
34) Chlordane...	7.943f	8.905	6267582	19955192	48.139	168.036 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.398	8.454	3210991	5983532	196.158	203.045
37) Toxaphene...	7.692	8.803	6077785	8295354	193.465	206.409
38) Toxaphene...	8.003	8.838	13955658	12406840	195.484	191.770
39) Toxaphene...	8.245	8.905	13559149	19955192	201.678	200.350
40) Toxaphene...	8.471	9.082	10723722	11485592	197.846	200.345
41) Toxaphene...	8.539	9.464	14823031	12675921	194.901	191.903
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:53:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012040.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:15
 Operator : MJB
 Sample : 0B01012-CALU
 Misc : A19J420, TOX 500 ppb
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:54:01 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

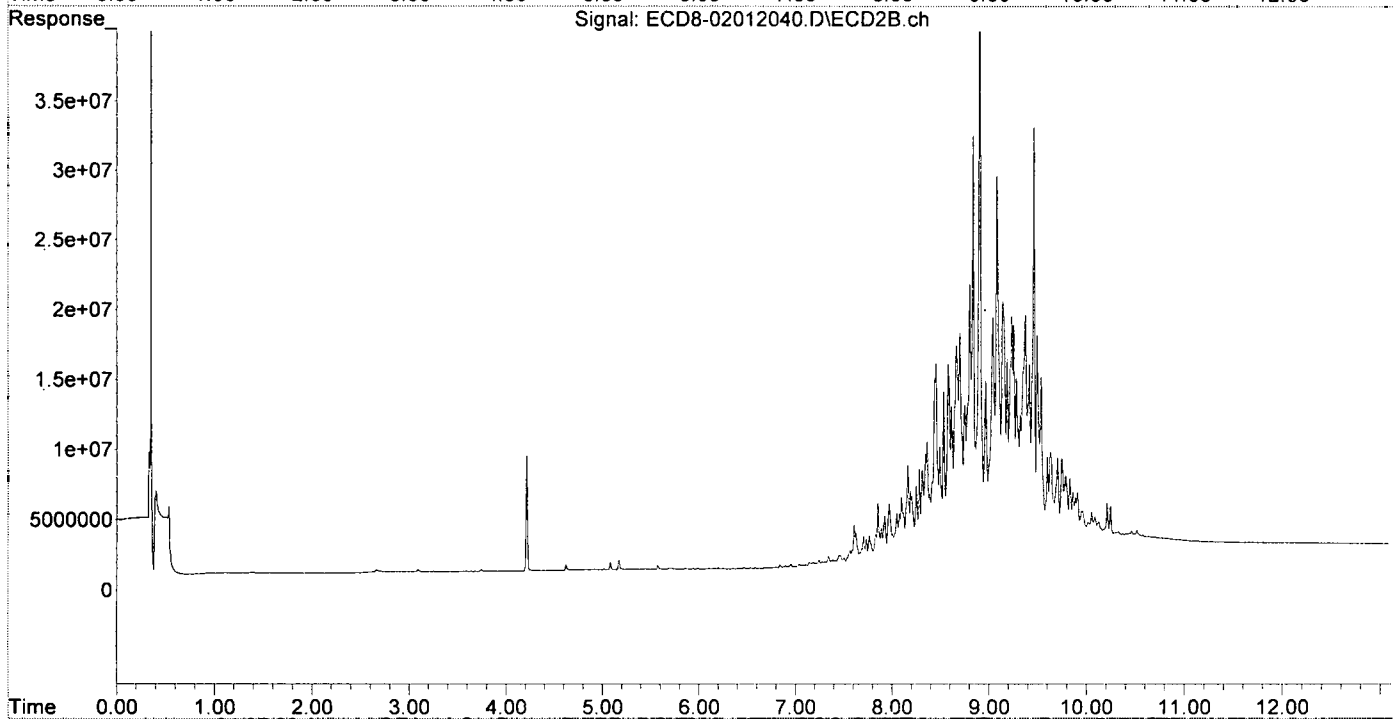
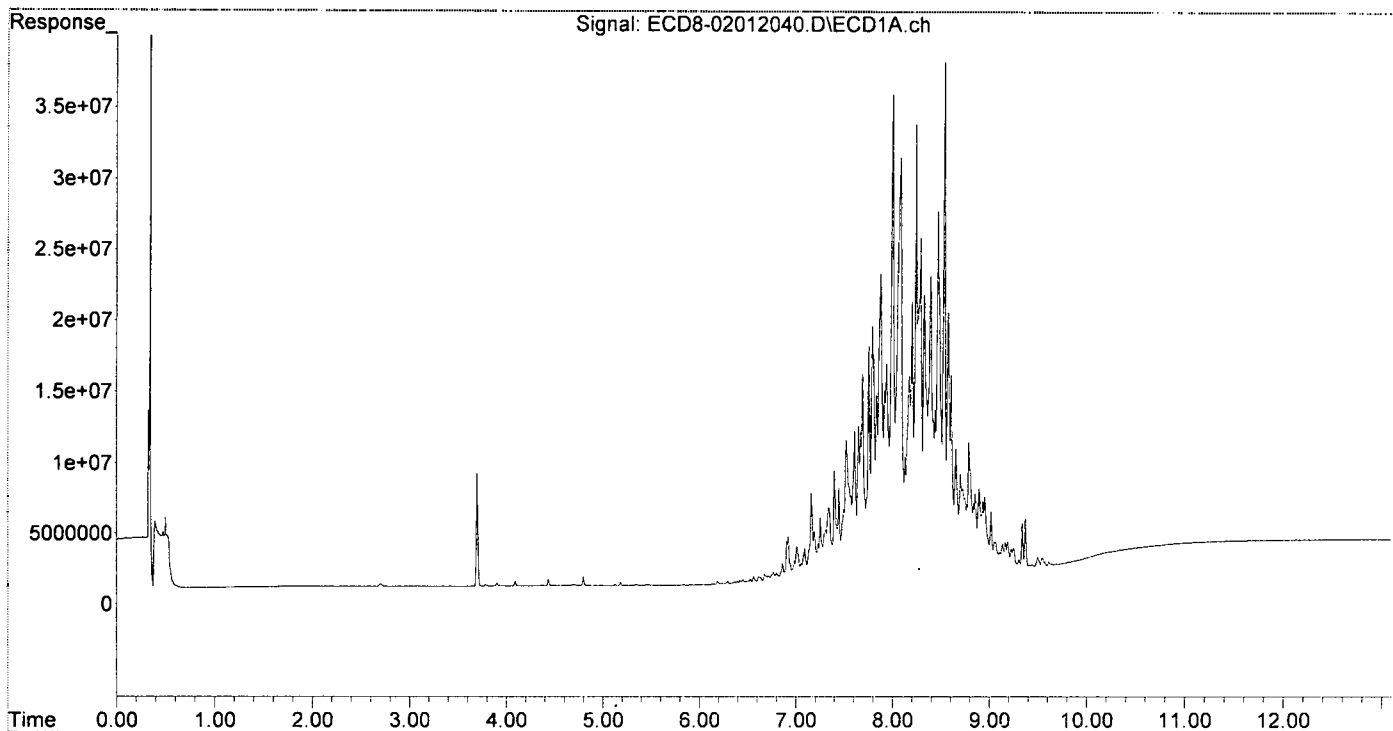
MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	67232	N.D.	0.019 #
22) S DCBP (S)	9.498	10.516f	663992	1308073	BelowCal	0.140
Target Compounds						
2) a-BHC	5.836	6.585	76051	56797	0.016	0.089 #
3) g-BHC	6.107	6.892	24897	108271	0.006	0.070 #
4) b-BHC	6.189	6.973	212064	50794	0.122	0.029 #
5) Heptachlor	6.529	7.277	270194	277882	0.066	0.066
6) d-BHC	6.328	7.221	54685	203406	0.122	0.156 #
7) Aldrin	6.767	7.567f	664250	928101	0.164	0.260 #
8) Heptachlo...	7.231	7.971	2526905	4130605	0.684	1.151 #
9) trans-Chl...	7.311	8.114	3466352	3397407	0.922	0.914
10) cis-Chlor...	7.430	8.206f	3487116	4551586	0.950	1.292 #
11) Endosulfa...	7.522	8.282	9694049	6473882	2.795	1.959 #
12) 4,4'-DDE	7.496	8.346	4872356	7560471	1.467	2.506 #
13) Dieldrin	7.692	8.493	14283516	8007139	3.746	2.312 #
14) Endrin	7.837	8.701	12730407	15998632	3.901	5.515 #
15) 4,4'-DDD	7.921	8.750	13086619	10853860	5.142	4.637
16) Endosulfa...	8.002	8.860	33827874	8270665	11.308	3.091 #
17) 4,4'-DDT	8.086f	8.967	29386681	12522091	10.932	5.023 #
18) Endrin Al...	8.292	9.082	23653936	27050867	8.985	10.232
19) Endosulfa...	8.608	9.282	13882162	12650660	4.850	4.931
20) Methoxychlor	8.442	9.463	11479871	30451142	9.514	26.599 #
21) Endrin Ke...	8.791	9.704f	9014181	6779793	2.608	2.175
23) Hexachlor...	3.083	3.678	53097	37879	0.014	0.008 #
24) Hexachlor...	5.717f	6.467f	25603	83921	0.008	BelowCal #
25) Oxychlorane	7.160	7.922	6059995	3262469	1.794	1.020 #
26) 2,4'-DDE	7.231	8.114	2526905	3397407	1.093	1.495 #
27) trans-Non...	7.399	8.191	7624274	4942774	2.080	1.369 #
28) 2,4'-DDD	7.609	8.493	10357973	8007139	5.348	4.183
29) 2,4'-DDT	7.792	8.701	17601445	15998632	7.355	7.365
30) cis-Nonac...	7.879	8.750	21268594	10853860	5.226	2.724 #
31) Mirex	8.538	9.704f	35990464	6779793	14.680	3.020 #
32) Chlordane...	7.311	8.114	3466352	3397407	8.655	7.820
33) Chlordane...	7.430	8.206	3487116	4551586	7.170	12.520 #
34) Chlordane...	7.941f	8.905	14882734	48832915	114.309	411.206 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.399	8.454	7624274	13991055	465.764	474.773
37) Toxaphene...	7.692	8.802	14283516	19375133	454.666	482.101
38) Toxaphene...	8.002	8.837	33827874	30083885	479.765	465.001
39) Toxaphene...	8.245	8.905	31701311	48832915	479.409	486.047
40) Toxaphene...	8.471	9.082	25454970	27050867	469.629	471.852
41) Toxaphene...	8.538	9.463	35990464	30451142	473.222	461.005
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012040.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:15
 Operator : MJB
 Sample : 0B01012-CALU
 Misc : A19J420, TOX 500 ppb
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:54:01 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012041.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:32
 Operator : MJB
 Sample : 0B01012-CALV
 Misc : A19J421, TOX 1000 ppb
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:54:11 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

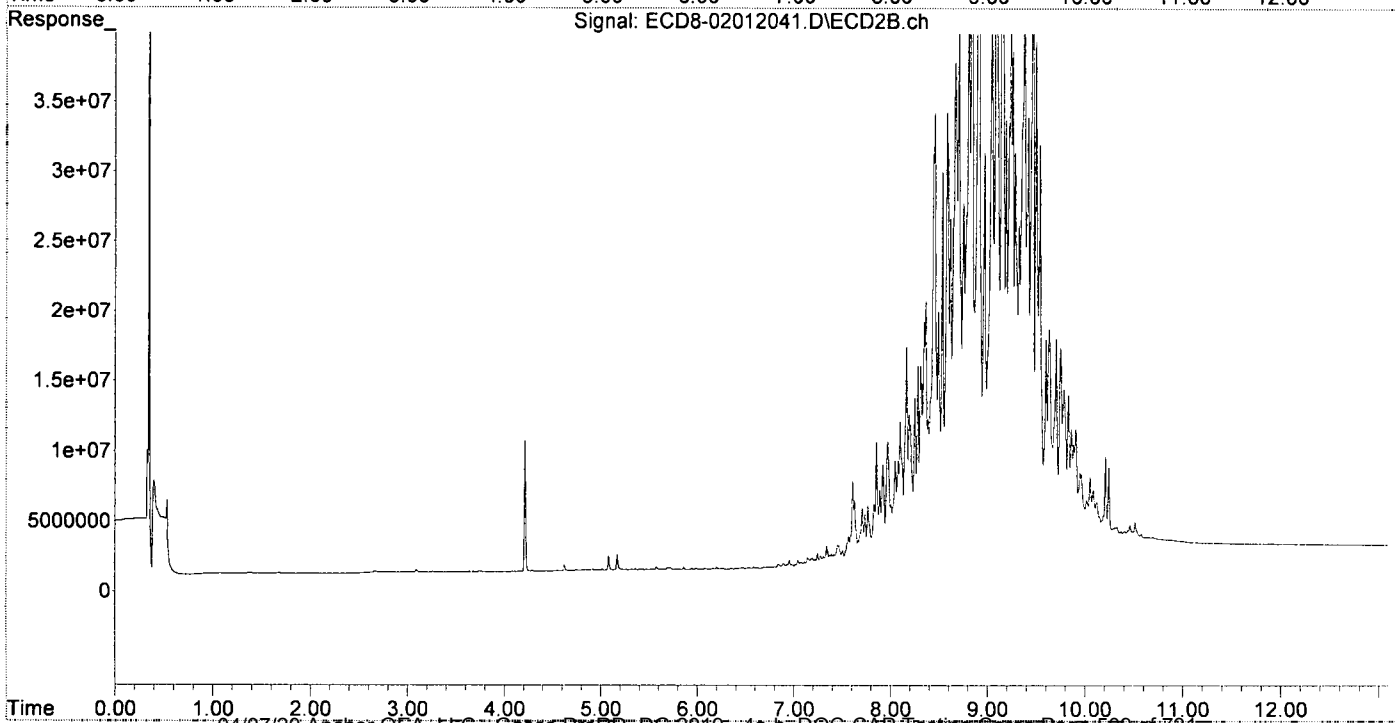
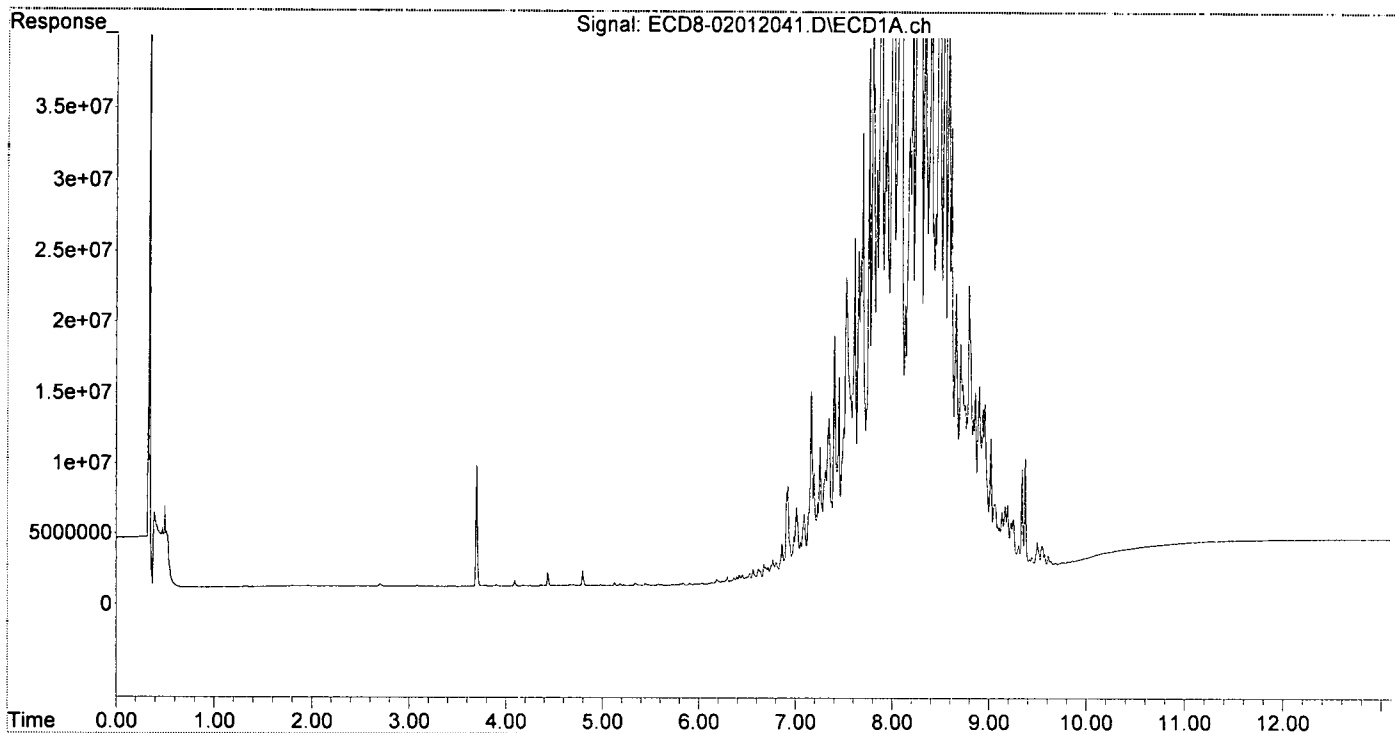
MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.302	5.986	16607	100445	0.005	0.029 #
22) S DCBP (S)	9.499	10.516f	1649629	2332562	0.311	0.647 #
Target Compounds						
2) a-BHC	5.836	6.585	166844	115621	0.035	0.103 #
3) g-BHC	6.106	6.894	61658	294713	0.015	0.118 #
4) b-BHC	6.188	6.975	309269	181982	0.178	0.105 #
5) Heptachlor	6.528	7.276	627923	724657	0.153	0.172
6) d-BHC	6.350	7.217	185088	504638	0.160	0.242 #
7) Aldrin	6.767	7.567f	1497579	2036963	0.371	0.556 #
8) Heptachlo...	7.231	7.971	5365604	8737584	1.453	2.434 #
9) trans-Chl...	7.311	8.099f	7651919	10181490	2.035	2.738 #
10) cis-Chlor...	7.427	8.205f	7608852	9894908	2.072	2.809 #
11) Endosulfa...	7.522	8.281	21178196	14026371	6.105	4.244 #
12) 4,4'-DDE	7.496	8.345	10579053	17160701	3.186	5.544 #
13) Dieldrin	7.691	8.492	31270534	17845581	8.205	5.093 #
14) Endrin	7.836	8.700	28664598	38302390	8.783	13.055 #
15) 4,4'-DDD	7.921	8.750	29841618	25476144	11.726	10.655
16) Endosulfa...	8.002	8.860	74869389	18631269	25.027	6.952 #
17) 4,4'-DDT	8.086f	8.967	65351702	29100556	24.310	11.515 #
18) Endrin Al...	8.290	9.081	52158812	63084241	19.812	23.862
19) Endosulfa...	8.607	9.281	31270534	28984869	10.925	11.282
20) Methoxychlor	8.443	9.463	25312073	70673400	20.977	57.829 #
21) Endrin Ke...	8.791	9.705f	20114389	15575717	5.819	5.255
23) Hexachlor...	3.082	3.678	64091	55233	0.016	0.011 #
24) Hexachlor...	5.679	6.436	24017	45780	0.007	BelowCal #
25) Oxylchlordane	7.160	7.922	13266192	7080465	4.139	2.214 #
26) 2,4'-DDE	7.231	8.099	5365604	10181490	2.321	4.479 #
27) trans-Non...	7.427	8.191	7608852	10587314	2.075	2.933 #
28) 2,4'-DDD	7.609	8.492	23887614	17845581	12.334	9.322
29) 2,4'-DDT	7.792	8.700	39311588	38302390	16.427	17.373
30) cis-Nonac...	7.880	8.750	47923221	25476144	11.776	6.393 #
31) Mirex	8.538	9.705f	80425541	15575717	33.134	7.249 #
32) Chlordane...	7.311	8.099	7651919	10181490	19.107	23.434
33) Chlordane...	7.427	8.205	7608852	9894908	15.646	27.217 #
34) Chlordane...	7.941f	8.905	33595938	114.1E6	258.038	960.856 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.399	8.453	17126108	32020907	1046.226	1086.598
37) Toxaphene...	7.691	8.802	31290692	44952411	996.029	1118.527
38) Toxaphene...	8.002	8.837	74869389	70006747	1072.289	1082.081
39) Toxaphene...	8.245	8.905	71267141	114.1E6	1079.654	1093.352
40) Toxaphene...	8.471	9.081	57604978	63084241	1062.776	1100.387
41) Toxaphene...	8.538	9.463	80425541	70673400	1057.478	1069.936
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:11 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
 Data File : ECD8-02012042.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:48
 Operator : MJB
 Sample : 0B01012-CALW
 Misc : A19J416, TOX 200 ppb
 ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:54:20 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument:DualECD8
 QLast Update : Mon Feb 03 15:36:51 2020
 Response via : Initial Calibration
 Integrator: ChemStation

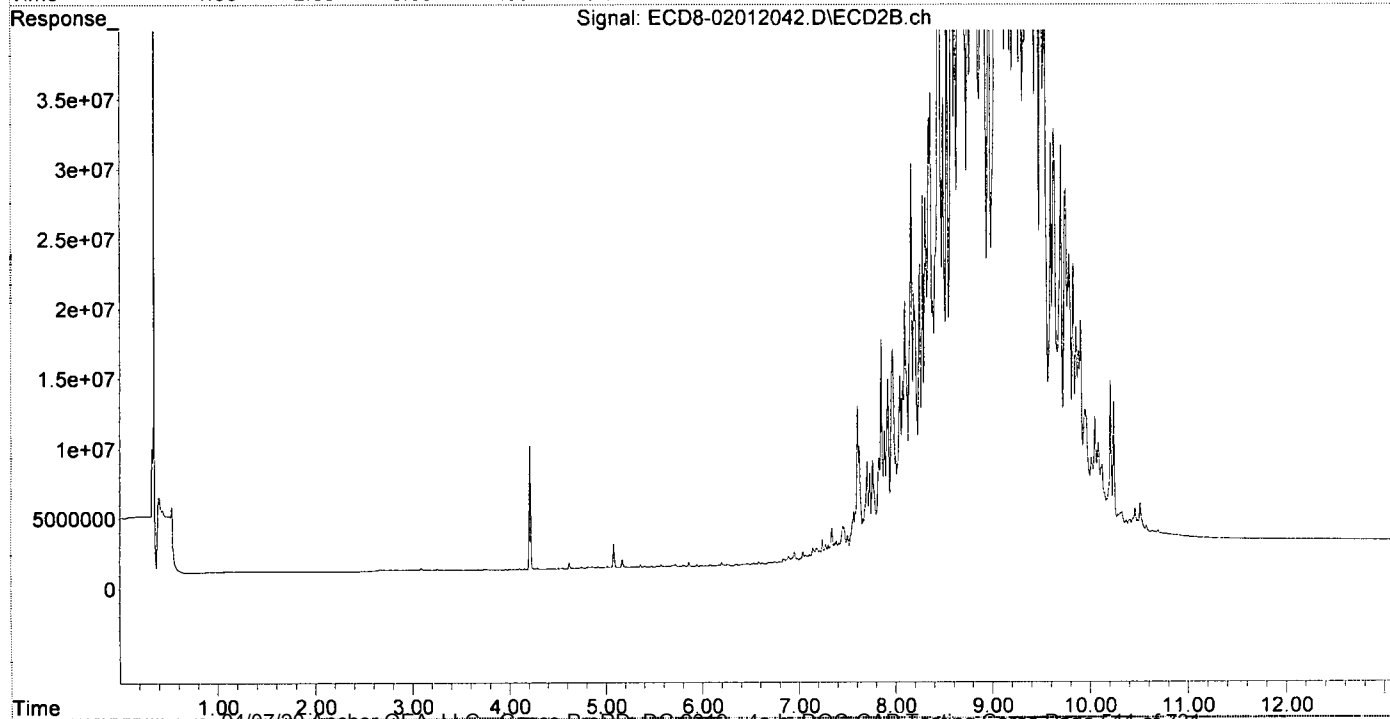
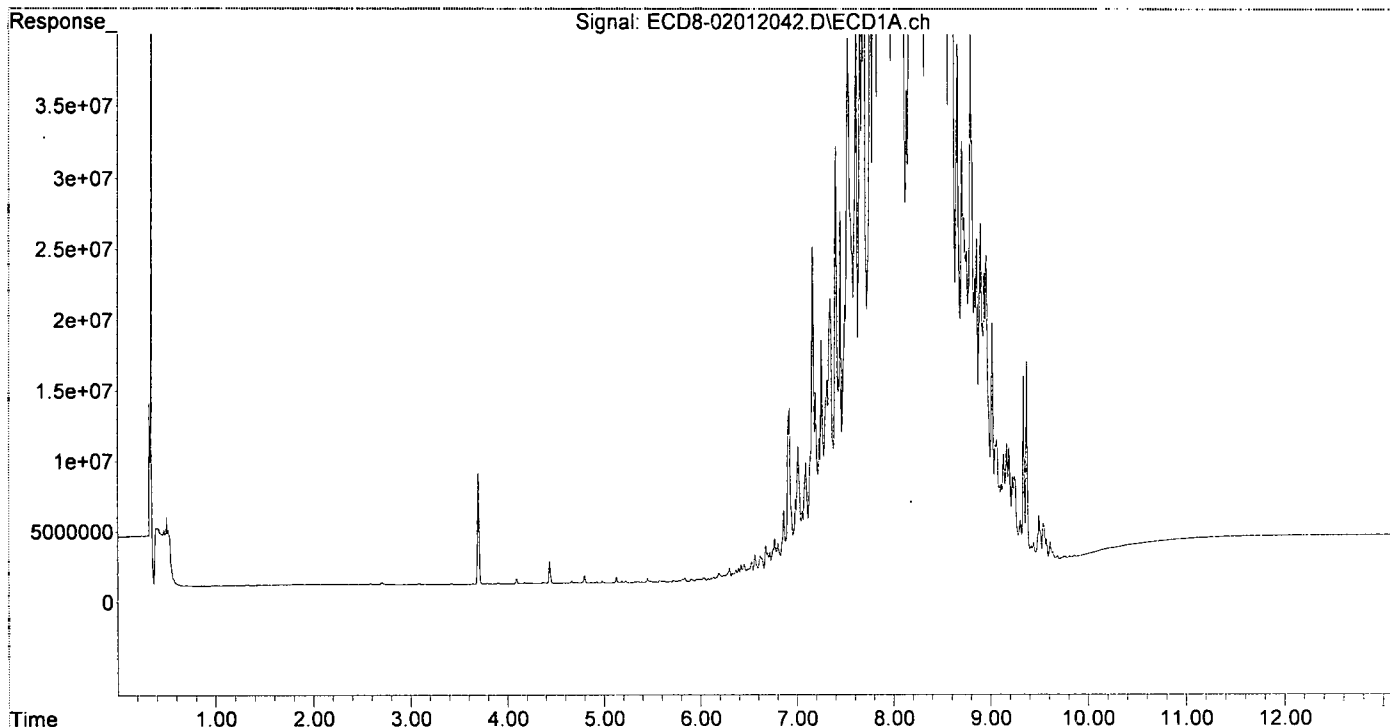
MJB
2/3/20

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.279	5.985	23392	70189	0.007	0.020 #
22) S DCBP (S)	9.497	10.515f	3160340	2729530	0.903	0.844
Target Compounds						
2) a-BHC	5.835	6.585	278100	197970	0.059	0.122 #
3) g-BHC	6.133	6.893	210680	476559	0.051	0.164 #
4) b-BHC	6.188	6.975	460960	290996	0.265	0.168 #
5) Heptachlor	6.528	7.276	1139038	1138068	0.277	0.270
6) d-BHC	6.328	7.218	411368	746437	0.226	0.311 #
7) Aldrin	6.767	7.535	2652776	1663406	0.657	0.456 #
8) Heptachlo...	7.231	7.970	9598272	14788527	2.599	4.120 #
9) trans-Chl...	7.311	8.098f	13687265	18209884	3.640	4.897 #
10) cis-Chlor...	7.427	8.205f	12990010	17418779	3.537	4.945 #
11) Endosulfa...	7.520	8.282	37628400	25656494	10.848	7.763 #
12) 4,4'-DDE	7.495	8.345	18930646	31159611	5.701	9.908 #
13) Dieldrin	7.691	8.493	57148633	32537162	14.986	9.205 #
14) Endrin	7.836	8.700	52527984	72409723	16.095	24.253 #
15) 4,4'-DDD	7.920	8.750	53971774	47193248	21.207	19.267
16) Endosulfa...	8.003	8.859	134.9E6	34109250	45.079	12.623 #
17) 4,4'-DDT	8.131f	8.966	33820069	53128545	12.581	20.577 #
18) Endrin Al...	8.290	9.082	94278993	117.9E6	35.811	44.588
19) Endosulfa...	8.607	9.282	56874670	53457856	19.871	20.540
20) Methoxychlor	8.442	9.462	46714915	131.6E6	38.715	98.872 #
21) Endrin Ke...	8.790	9.704f	37377099	28668518	10.814	9.778
23) Hexachlor...	3.081	3.679	62396	46375	0.016	0.010 #
24) Hexachlor...	5.677	6.433	36317	78535	0.011	BelowCal #
25) Oxychlorthane	7.160	7.922	23154517	12678184	7.355	3.964 #
26) 2,4'-DDE	7.231	8.098	9598272	18209884	4.151	8.011 #
27) trans-Non...	7.427	8.191	12990010	18718915	3.543	5.186 #
28) 2,4'-DDD	7.608	8.493	41463942	32537162	21.409	16.997
29) 2,4'-DDT	7.791	8.700	71100081	72409723	29.710	32.019
30) cis-Nonac...	7.879	8.750	87530613	47193248	21.509	11.842 #
31) Mirex	8.537	9.704f	145.3E6	28668518	60.232	13.508 #
32) Chlordane...	7.311	8.098	13687265	18209884	34.177	41.912
33) Chlordane...	7.427	8.205f	12990010	17418779	26.710	47.912 #
34) Chlordane...	7.941f	8.905	61742354	212.6E6	474.221	1790.459 #
35) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36) Toxaphene...	7.398	8.453	30177110	58830123	1843.507	1996.342
37) Toxaphene...	7.691	8.802	57148633	82998661	1819.126	2065.211
38) Toxaphene...	8.003	8.837	134.9E6	132.9E6	1951.936	2054.370
39) Toxaphene...	8.243	8.905	128.9E6	212.6E6	1941.789	1929.462
40) Toxaphene...	8.471	9.082	104.1E6	117.9E6	1920.344	2056.150
41) Toxaphene...	8.537	9.462	145.3E6	131.6E6	1910.606	1992.916
42) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\2020-02\0B01012\REQUANT\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:54:20 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:36:51 2020
Response via : Initial Calibration
Integrator: ChemStation



Sequence Name: C:\msdchem\1\sequence\0B01012.s

Comment: Pesticides

Operator: MJB

Data Path: C:\MSDCHEM\1\DATA\2020-02\0B01012\

Instrument Control Pre-Seq Cmd:

Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:

Data Analysis Post-Seq Cmd:

Method Sections To Run Sequence Barcode Options
(X) Full Method (X) On Mismatch, Inject Anyway
() Reprocessing Only () On Mismatch, Don't Inject
 () Barcode Disabled

Line Sample Name/Misc Info
1) Sample 1 Hexane
 Datafile ECD8-02012001
 Method ECD8_AQUPEST_190925
2) Sample 1 Hexane
 Datafile ECD8-02012002
 Method ECD8_AQUPEST_190925
3) Sample 2 0B01012-BKD1
 Datafile ECD8-02012003
 Method ECD8_AQUPEST_190925
4) Sample 3 0B01012-ICB1
 Datafile ECD8-02012004
 Method ECD8_AQUPEST_190925
5) Sample 4 0B01012-CAL1
 Datafile ECD8-02012005
 Method ECD8_AQUPEST_190925
6) Sample 5 0B01012-CAL2
 Datafile ECD8-02012006
 Method ECD8_AQUPEST_190925
7) Sample 6 0B01012-CAL3
 Datafile ECD8-02012007
 Method ECD8_AQUPEST_190925
8) Sample 7 0B01012-CAL4
 Datafile ECD8-02012008
 Method ECD8_AQUPEST_190925
9) Sample 8 0B01012-CAL5
 Datafile ECD8-02012009
 Method ECD8_AQUPEST_190925
10) Sample 9 0B01012-CAL6
 Datafile ECD8-02012010
 Method ECD8_AQUPEST_190925
11) Sample 10 0B01012-CAL7
 Datafile ECD8-02012011
 Method ECD8_AQUPEST_190925
12) Sample 11 0B01012-CAL8
 Datafile ECD8-02012012
 Method ECD8_AQUPEST_190925
13) Sample 12 0B01012-CAL9
 Datafile ECD8-02012013
 Method ECD8_AQUPEST_190925
14) Sample 1 0B01012-IBL1
 Datafile ECD8-02012014
 Method ECD8_AQUPEST_190925
15) Sample 13 0B01012-ICV1
 Datafile ECD8-02012015
 Method ECD8_AQUPEST_190925
16) Sample 14 0B01012-CALA
 Datafile ECD8-02012016
 Method ECD8_AQUPEST_190925
17) Sample 15 0B01012-CALB
 Datafile ECD8-02012017
 Method ECD8_AQUPEST_190925
18) Sample 16 0B01012-CALC
 Datafile ECD8-02012018
 Method ECD8_AQUPEST_190925
19) Sample 17 0B01012-CALD
 Datafile ECD8-02012019
 Method ECD8_AQUPEST_190925
20) Sample 18 0B01012-CALE

MJB
2/3/20

	Datafile		ECD8-02012020
	Method		ECD8_AQUPEST_190925
21)	Sample	19	0B01012-CALF
	Datafile		ECD8-02012021
	Method		ECD8_AQUPEST_190925
22)	Sample	20	0B01012-CALG
	Datafile		ECD8-02012022
	Method		ECD8_AQUPEST_190925
23)	Sample	21	0B01012-CALH
	Datafile		ECD8-02012023
	Method		ECD8_AQUPEST_190925
24)	Sample	22	0B01012-CALI
	Datafile		ECD8-02012024
	Method		ECD8_AQUPEST_190925
25)	Sample	1	0B01012-IBL2
	Datafile		ECD8-02012025
	Method		ECD8_AQUPEST_190925
26)	Sample	23	0B01012-ICV2
	Datafile		ECD8-02012026
	Method		ECD8_AQUPEST_190925
27)	Sample	24	0B01012-CALJ
	Datafile		ECD8-02012027
	Method		ECD8_AQUPEST_190925
28)	Sample	25	0B01012-CALK
	Datafile		ECD8-02012028
	Method		ECD8_AQUPEST_190925
29)	Sample	26	0B01012-CALL
	Datafile		ECD8-02012029
	Method		ECD8_AQUPEST_190925
30)	Sample	27	0B01012-CALM
	Datafile		ECD8-02012030
	Method		ECD8_AQUPEST_190925
31)	Sample	28	0B01012-CALN
	Datafile		ECD8-02012031
	Method		ECD8_AQUPEST_190925
32)	Sample	29	0B01012-CALO
	Datafile		ECD8-02012032
	Method		ECD8_AQUPEST_190925
33)	Sample	30	0B01012-CALP
	Datafile		ECD8-02012033
	Method		ECD8_AQUPEST_190925
34)	Sample	1	0B01012-IBL3
	Datafile		ECD8-02012034
	Method		ECD8_AQUPEST_190925
35)	Sample	31	0B01012-ICV3
	Datafile		ECD8-02012035
	Method		ECD8_AQUPEST_190925
36)	Sample	32	0B01012-CALQ
	Datafile		ECD8-02012036
	Method		ECD8_AQUPEST_190925
37)	Sample	33	0B01012-CALR
	Datafile		ECD8-02012037
	Method		ECD8_AQUPEST_190925
38)	Sample	34	0B01012-CALS
	Datafile		ECD8-02012038
	Method		ECD8_AQUPEST_190925
39)	Sample	35	0B01012-CALT
	Datafile		ECD8-02012039
	Method		ECD8_AQUPEST_190925
40)	Sample	36	0B01012-CALU
	Datafile		ECD8-02012040
	Method		ECD8_AQUPEST_190925
41)	Sample	37	0B01012-CALV
	Datafile		ECD8-02012041
	Method		ECD8_AQUPEST_190925
42)	Sample	38	0B01012-CALW
	Datafile		ECD8-02012042
	Method		ECD8_AQUPEST_190925
43)	Sample	1	0B01012-IBL4
	Datafile		ECD8-02012043
	Method		ECD8_AQUPEST_190925

Sequence Name: C:\msdchem\1\sequence\0B01012.s

Line Type	Vial	DataFile	Method	Sample Name
44) Sample	39	0B01012-ICV4		
Datafile		ECD8-02012044		
Method		ECD8_AQUPEST_190925		

Pesticide BKD

Pesticide Breakdown Check (Validated 8/8/2013)

Sequence: 0B01012 BKD1
Data File: ECD8-02012003.D

First Column Area Counts		Percent Breakdown	
DDE	14726696		
DDD	41771993		
DDT	2413043961	2.29	PASS
Endrin	1457300057	7.93	PASS
Endrin Aldehyde	61356077		
Endrin Ketone	64185001		

Second Column Area Counts		Percent Breakdown	
DDE	16962656		
DDD	42718820		
DDT	2637052504	2.21	PASS
Endrin	1408511020	7.21	PASS
Endrin Aldehyde	40978971		
Endrin Ketone	68527902		

Breakdown must be less than 15% to accept sample data.

*MB
2/5/20*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 14:52
 Operator : MJB
 Sample : 0B01012-BKD1
 Misc : A20A019
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:38:46 2020
 Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201.M
 Quant Title : Pesticides
 QLast Update : Fri Nov 09 13:28:51 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) 4,4'-DDE	7.491	14726696	NoCal	ng/mL
2) Endrin	7.854	1457300057	NoCal	ng/mL
3) 4,4'-DDD	7.912	41771993	NoCal	ng/mL
4) 4,4'-DDT	8.108	2413043961	NoCal	ng/mL
5) Endrin Aldehyde	8.302	61356077	NoCal	ng/mL
6) Endrin Ketone	8.798	64185001	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.333	16962656	NoCal	ng/mL
9) Endrin [2C]	8.706	1408511020	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.749	42718820	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.090	40978971	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.975	2637052504	NoCal	ng/mL
13) Endrin Ketone [2C]	9.683	68527902	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

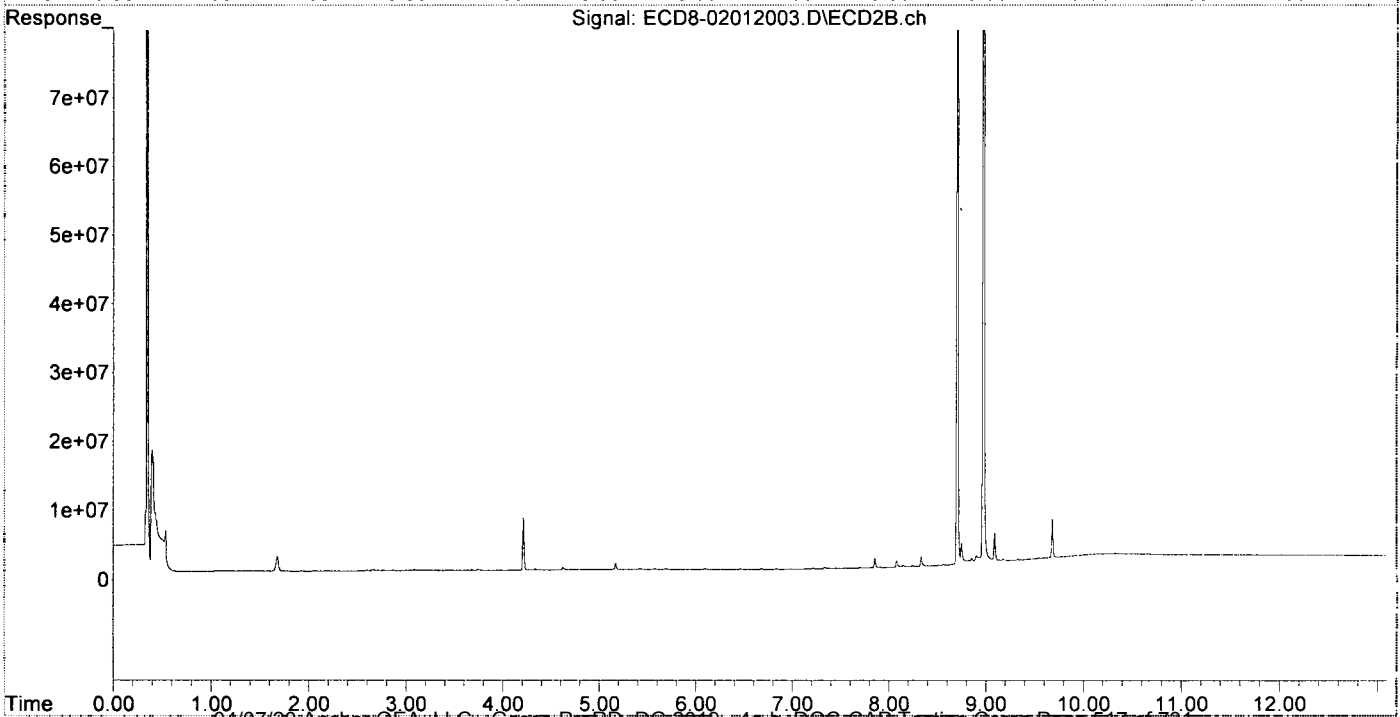
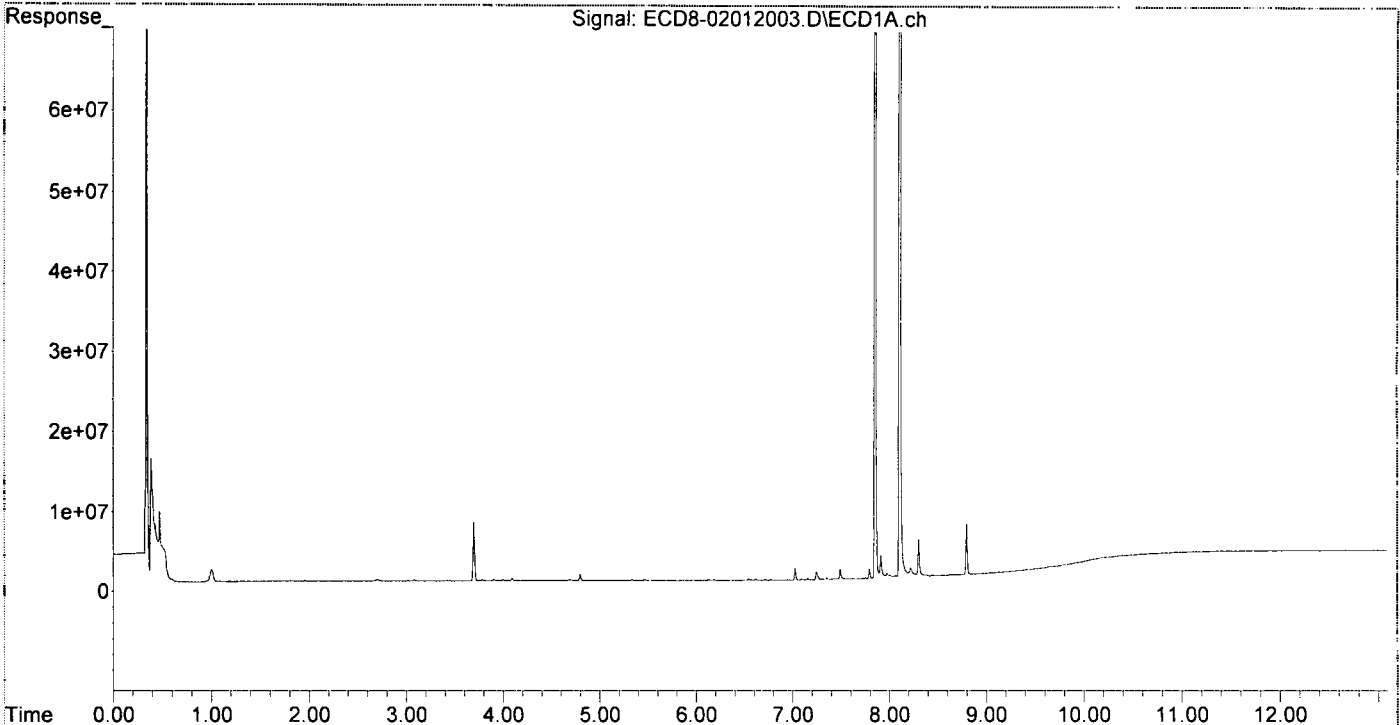
(m)=manual int.

MJB
2/3/20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012003.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 14:52
Operator : MJB
Sample : 0B01012-BKD1
Misc : A20A019
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:38:46 2020
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK_200201.M
Quant Title : Pesticides
QLast Update : Fri Nov 09 13:28:51 2018
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012005.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:26
 Operator : MJB
 Sample : 0B01012-CAL1
 Misc : A20B001, AB 0.5 ppb
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:44:02 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MFB
2/3/20

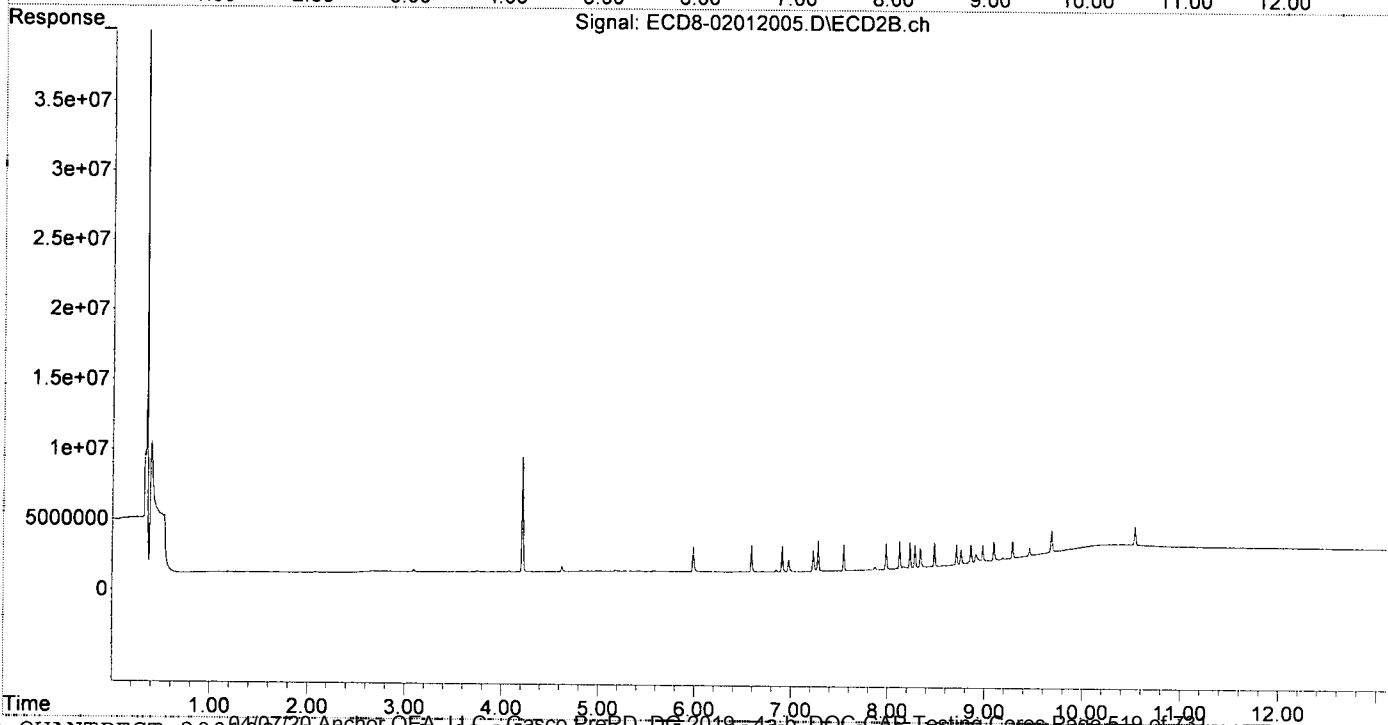
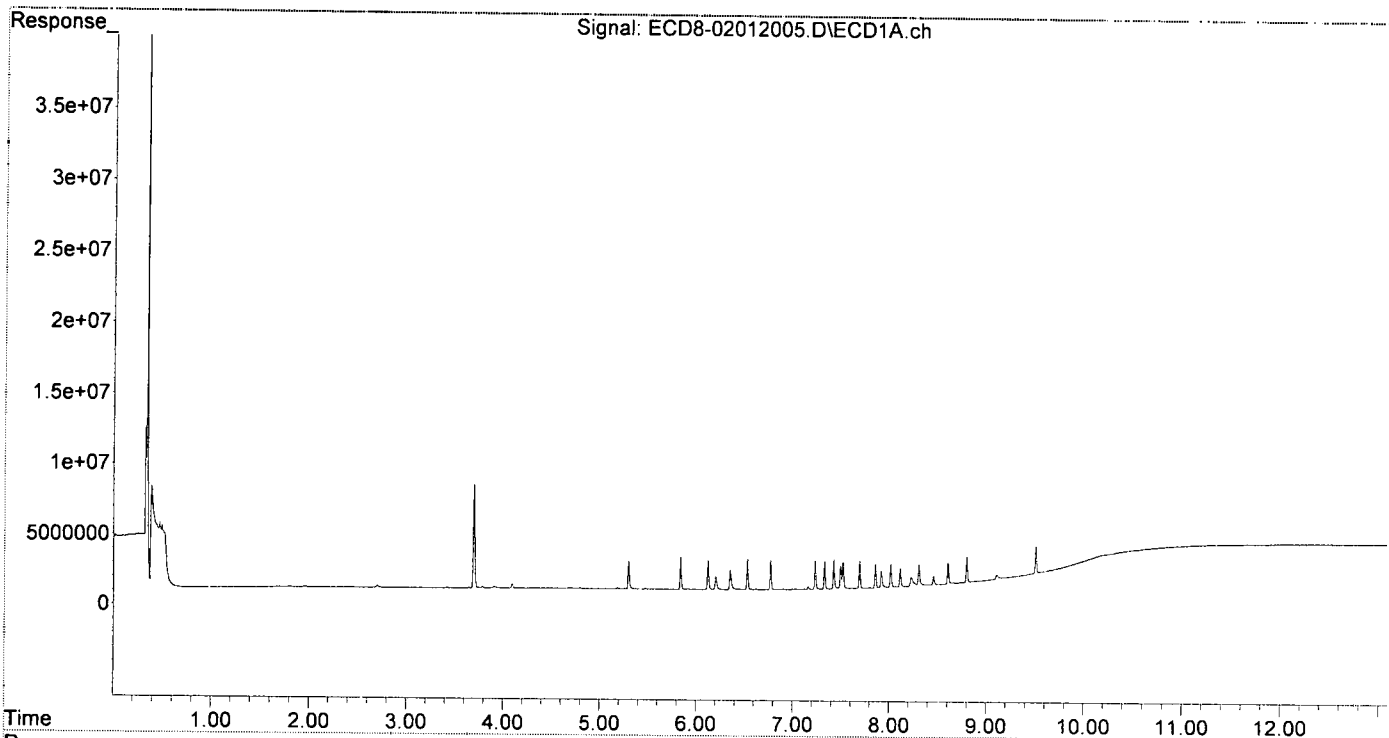
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.982	2010387	1807457	0.600	0.498
22) S DCBP (S)	9.507	10.537	2137981	2121210	0.670	0.752
Target Compounds						
2) a-BHC	5.836	6.585	2323532	1906806	0.622	0.645
3) g-BHC	6.120	6.903	2098226	1857818	0.657	0.659
4) b-BHC	6.201	6.970	943381	871353	0.671	0.593
5) Heptachlor	6.529	7.276	2213636	2166906	0.742	0.715
6) d-BHC	6.351	7.224	1446613	1525163	0.641	0.667
7) Aldrin	6.769	7.541	2117773	1887335	0.632	0.601
8) Heptachlo...	7.230	7.979	2037408	1829309	0.666	0.579
9) trans-Chl...	7.327	8.119	2006872	1923989	0.634	0.589
10) cis-Chlor...	7.424	8.226	2072536	1851957	0.661	0.563
11) Endosulfa...	7.519	8.277	1932337	1589681	0.656	0.531
12) 4,4'-DDE	7.493	8.333	1628951	1346237	0.619	0.542
13) Dieldrin	7.691	8.478	1958633	1711724	0.613	0.608
14) Endrin	7.854	8.705	1701747	1499119	0.689	0.755
15) 4,4'-DDD	7.915	8.751	1218671	1119384	0.587	0.615
16) Endosulfa...	8.013	8.854	1650694	1442453	0.661	0.599
17) 4,4'-DDT	8.110	8.975	1351757	1360505	0.609	0.679
18) Endrin Al...	8.303	9.091	1534740	1556354	0.673	0.643
19) Endosulfa...	8.604	9.282	1548557	1535031	0.630	0.627
20) Methoxychlor	8.454	9.456	650344	981544	0.576	0.860 #
21) Endrin Ke...	8.797	9.683	1865728	2135612	0.639	0.729
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012005.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 15:26
Operator : MJB
Sample : 0B01012-CAL1
Misc : A20B001, AB 0.5 ppb
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:44:02 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:43
 Operator : MJB
 Sample : 0B01012-CAL2
 Misc : A20B002, AB 1 ppb
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:45:57 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

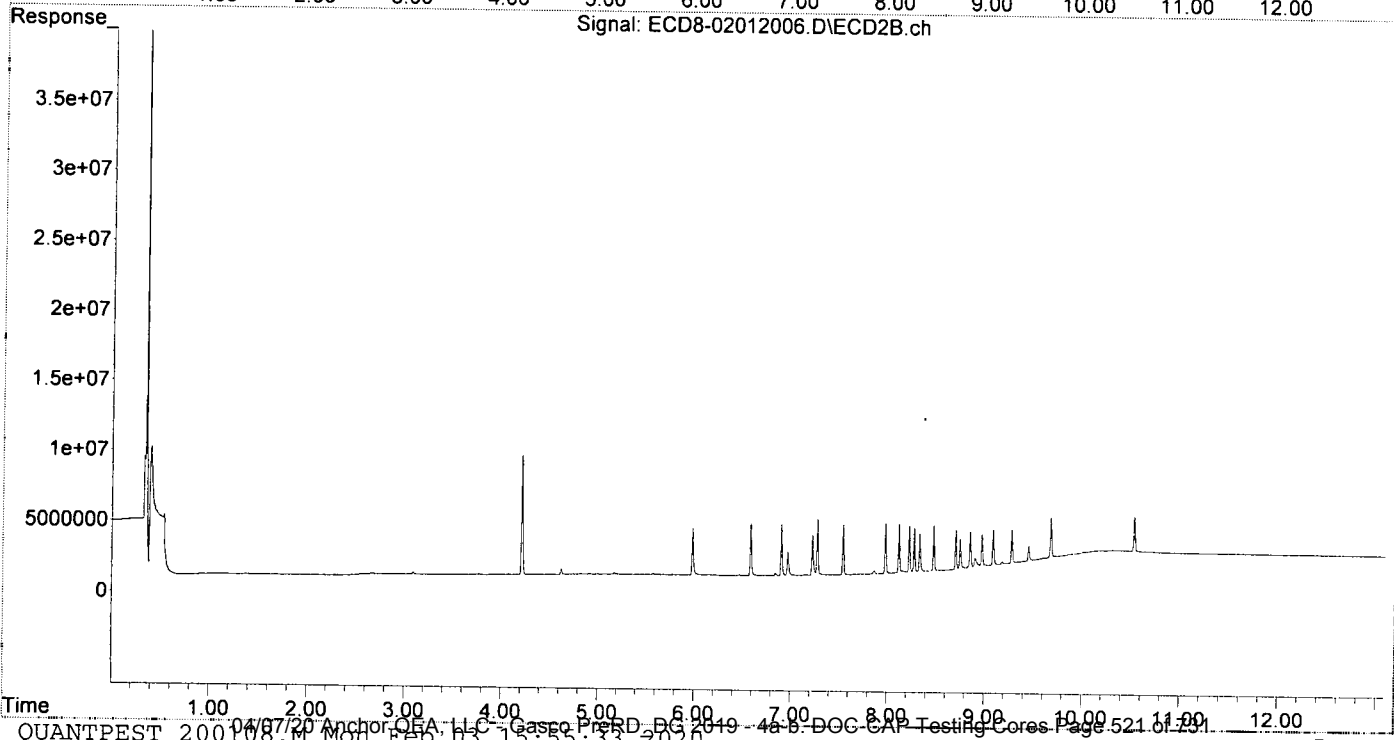
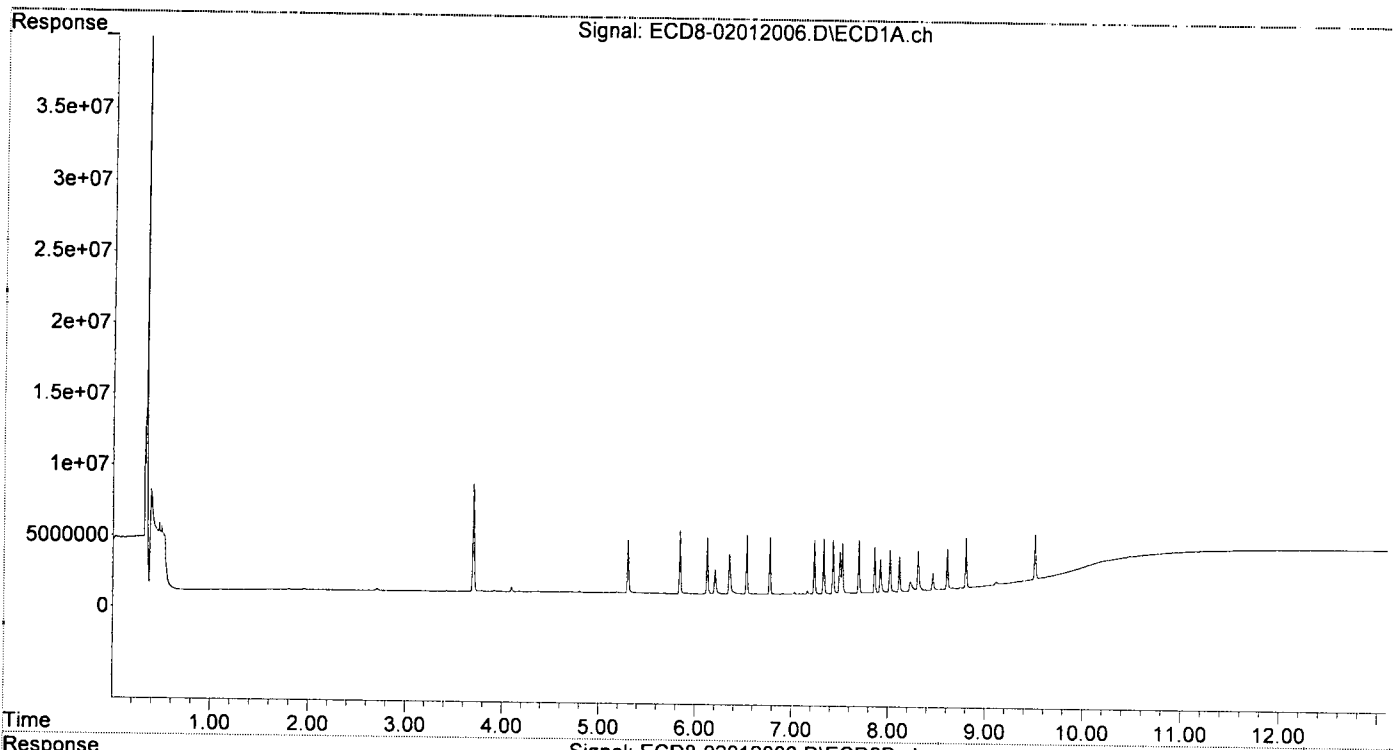
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.982	3713760	3325610	1.108	0.916
22) S DCBP (S)	9.507	10.537	3342363	2619998	1.179	0.998
Target Compounds						
2) a-BHC	5.837	6.585	4491787	3754344	1.203	1.159
3) g-BHC	6.120	6.902	3995270	3614287	1.251	1.216
4) b-BHC	6.200	6.968	1736591	1672509	1.235	1.138
5) Heptachlor	6.529	7.275	4223019	4011938	1.415	1.324
6) d-BHC	6.351	7.224	2800163	2821743	1.098	1.098
7) Aldrin	6.769	7.542	4023063	3540234	1.201	1.096
8) Heptachlo...	7.230	7.979	3849968	3563306	1.258	1.129
9) trans-Chl...	7.327	8.119	3865919	3473086	1.220	1.064
10) cis-Chlor...	7.423	8.226	3812238	3361292	1.217	1.021
11) Endosulfa...	7.519	8.277	3593891	3092501	1.220	1.034
12) 4,4'-DDE	7.493	8.333	2976091	2684993	1.065	0.983
13) Dieldrin	7.691	8.478	3771816	3204188	1.180	1.084
14) Endrin	7.854	8.705	3307872	2810308	1.339	1.364
15) 4,4'-DDD	7.914	8.751	2373048	2115078	1.742	1.128
16) Endosulfa...	8.013	8.855	3004856	2617481	1.203	1.110
17) 4,4'-DDT	8.109	8.975	2497592	2317293	1.126	1.148
18) Endrin Al...	8.303	9.091	2830842	2604623	1.241	1.076
19) Endosulfa...	8.604	9.281	2921925	2490983	1.188	1.052
20) Methoxychlor	8.454	9.454	1197106	1213779	1.060	1.103
21) Endrin Ke...	8.797	9.683	3540934	3121972	1.213	1.128
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 15:43
 Operator : MJB
 Sample : 0B01012-CAL2
 Misc : A20B002, AB 1 ppb
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:45:57 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:00
 Operator : MJB
 Sample : 0B01012-CAL3
 Misc : A19K128, AB 2 ppb
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:46:32 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

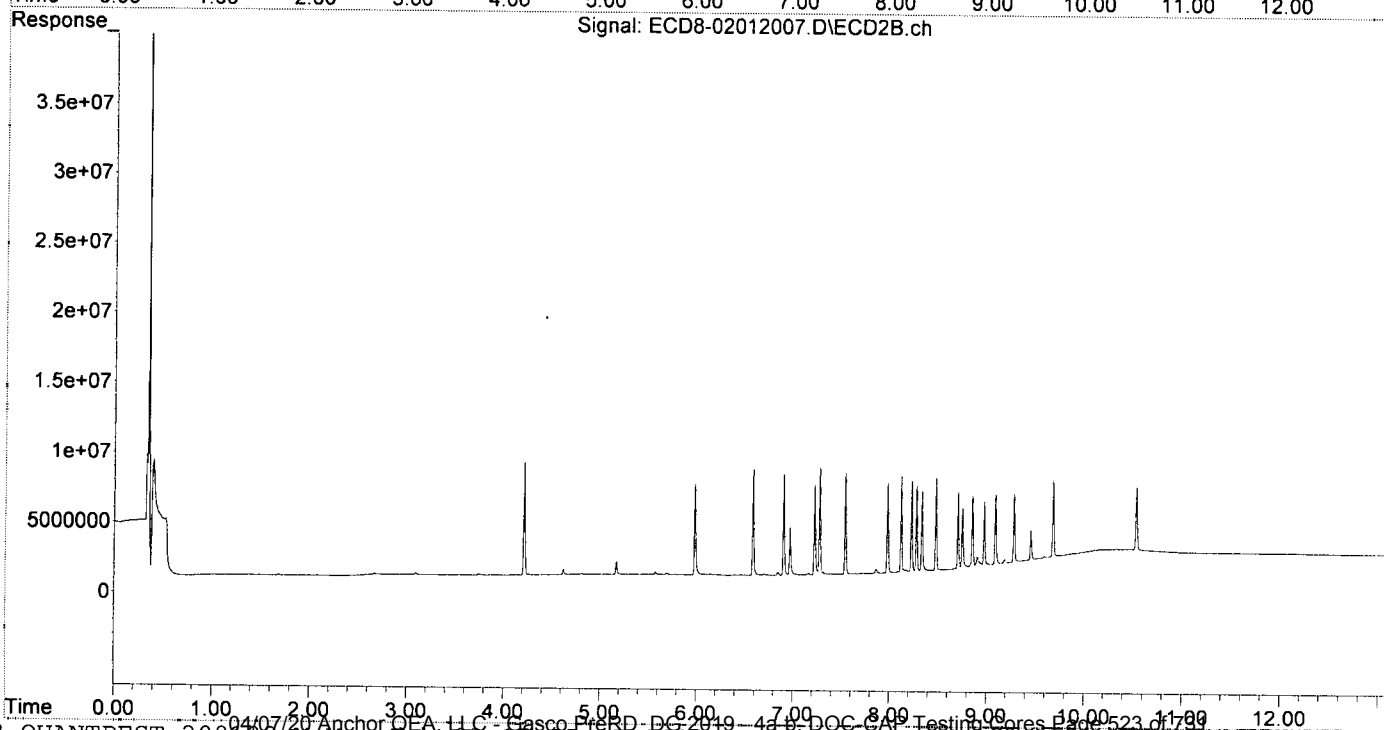
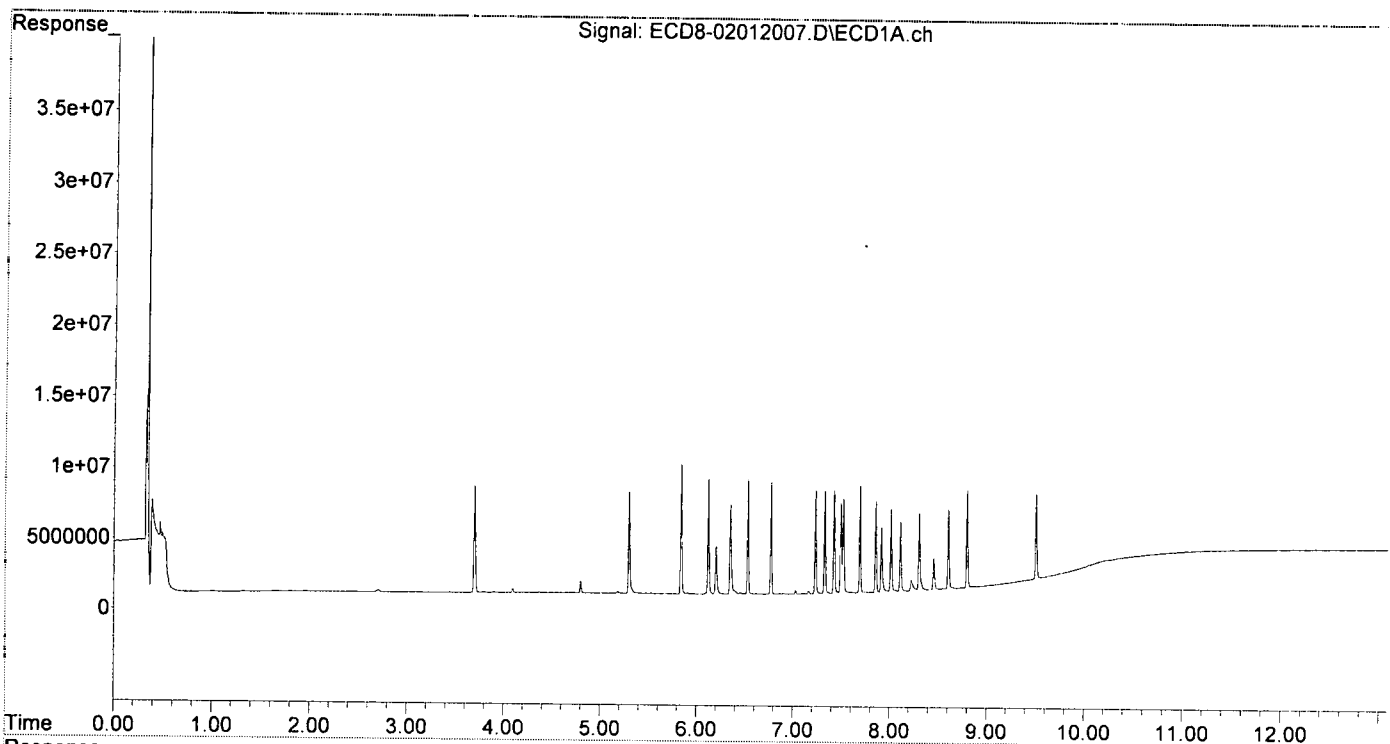
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.982	7209311	6464924	2.152	1.780
22) S DCBP (S)	9.506	10.536	6150705	5371510	2.366	2.349
Target Compounds						
2) a-BHC	5.837	6.585	9150524	7591226	2.450	2.224
3) g-BHC	6.119	6.902	8103069	7144289	2.537	2.332
4) b-BHC	6.199	6.967	3435299	3394908	2.443	2.310
5) Heptachlor	6.529	7.275	8104217	7612959	2.716	2.512
6) d-BHC	6.348	7.222	6356662	6360084	2.296	2.270
7) Aldrin	6.768	7.541	7878680	7212786	2.351	2.192
8) Heptachlo...	7.230	7.979	7310938	6383239	2.389	2.022
9) trans-Chl...	7.326	8.118	7233767	6824804	2.284	2.091
10) cis-Chlor...	7.423	8.226	7290278	6414031	2.327	1.949
11) Endosulfa...	7.518	8.277	6684329	6087483	2.269	2.035
12) 4,4'-DDE	7.492	8.332	6364080	5670683	2.190	1.962
13) Dieldrin	7.691	8.477	7527776	6556953	2.355	2.151
14) Endrin	7.854	8.705	6440400	5547721	2.607	2.630
15) 4,4'-DDD	7.912	8.750	4683505	4350712	2.255	2.275
16) Endosulfa...	8.012	8.854	5851117	5197583	2.343	2.230
17) 4,4'-DDT	8.109	8.975	4907038	4735251	2.212	2.330
18) Endrin Al...	8.302	9.091	5465292	5226313	2.397	2.160
19) Endosulfa...	8.604	9.281	5585397	5212773	2.271	2.259
20) Methoxychlor	8.453	9.455	2268598	2619150	2.009	2.567 #
21) Endrin Ke...	8.797	9.682	6824708	6091766	2.338	2.327
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012007.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:00
Operator : MJB
Sample : 0B01012-CAL3
Misc : A19K128, AB 2 ppb
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:46:32 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012008.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:16
 Operator : MJB
 Sample : 0B01012-CAL4
 Misc : A19K130, AB 5 ppb
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:47:43 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

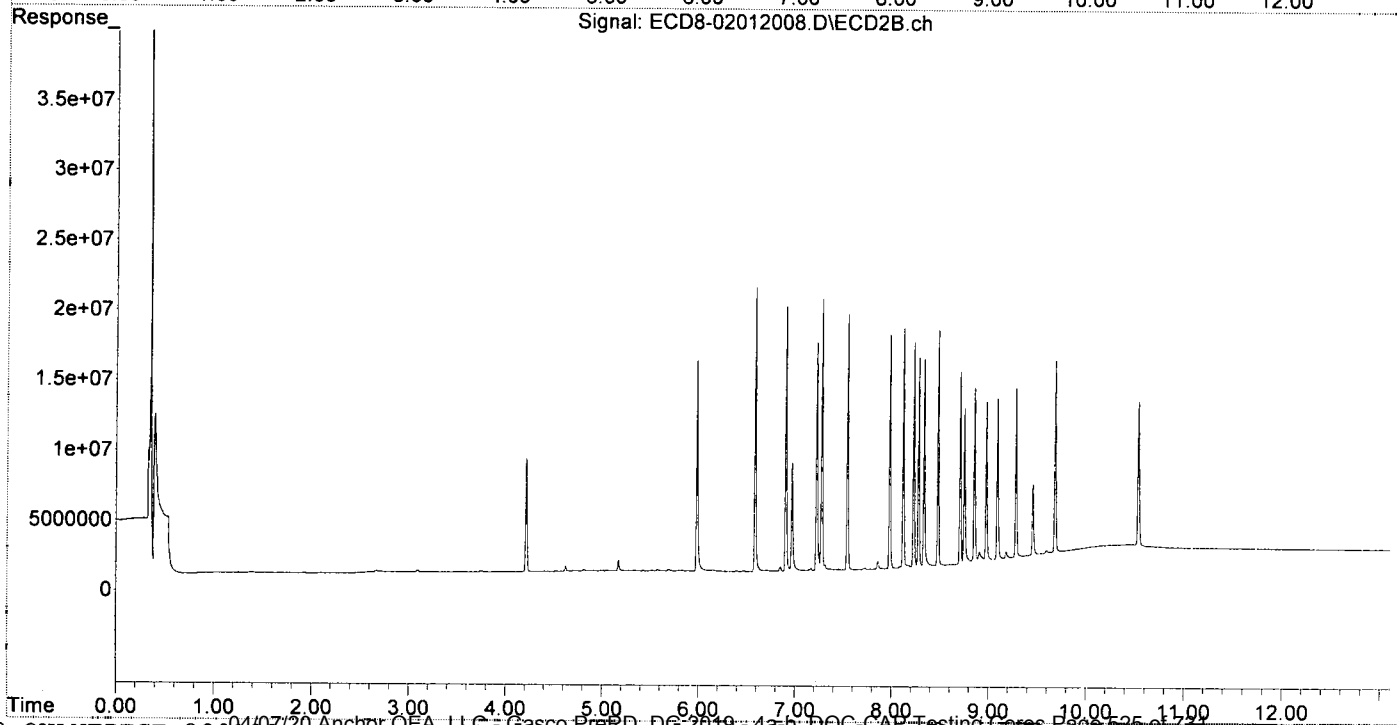
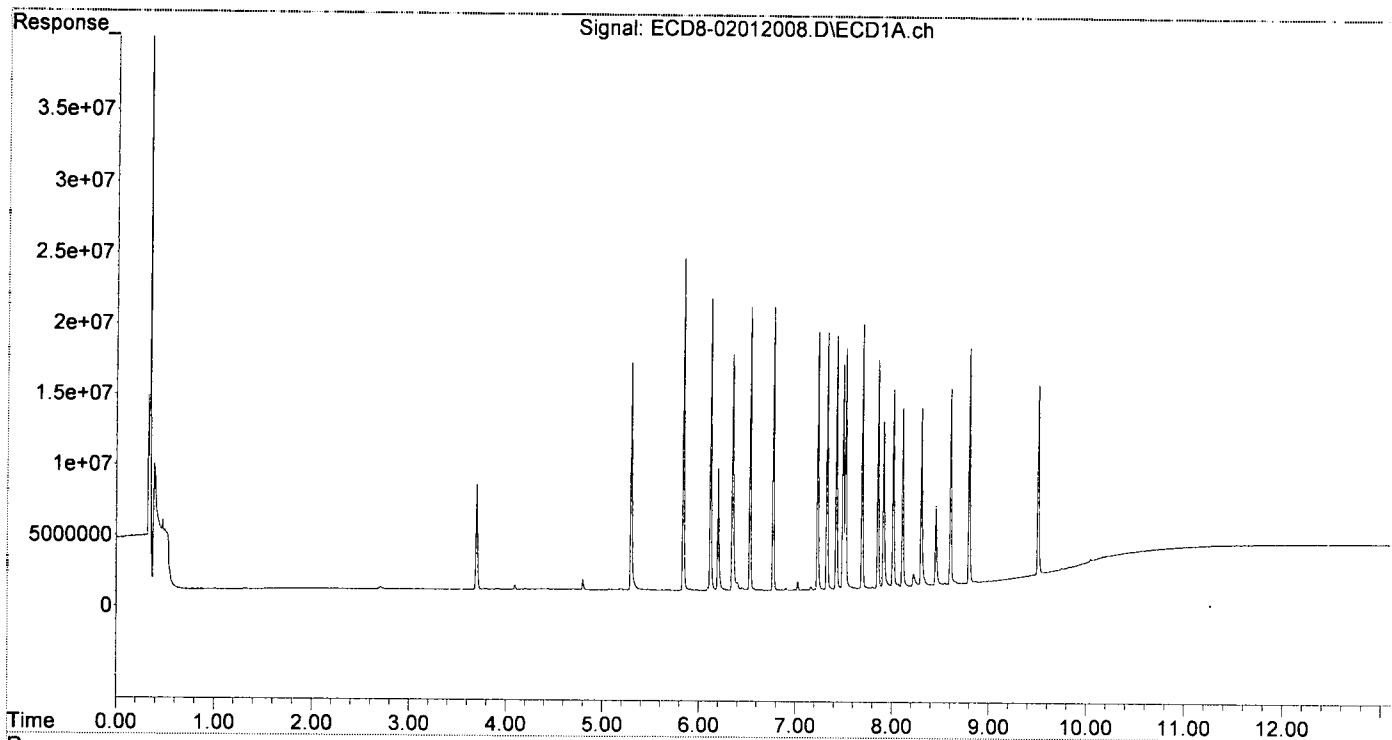
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.981	16081203	15031272	4.800	4.139
22) S DCBP (S)	9.507	10.536	13550213	11242637	5.488	5.219
Target Compounds						
2) a-BHC	5.837	6.585	23466079	20250518	6.283	5.703
3) g-BHC	6.119	6.902	20617843	18903687	6.456	6.022
4) b-BHC	6.198	6.967	8638547	7798279	6.142	5.306
5) Heptachlor	6.529	7.275	20002736	19371564	6.704	6.391
6) d-BHC	6.347	7.222	16718254	16286148	5.770	5.526
7) Aldrin	6.769	7.542	20021477	18260292	5.976	5.470
8) Heptachlo...	7.230	7.979	18211245	16663788	5.950	5.279
9) trans-Chl...	7.327	8.118	18164041	17064405	5.734	5.227
10) cis-Chlor...	7.423	8.226	17894373	16061241	5.711	4.881
11) Endosulfa...	7.519	8.277	17033099	14978724	5.782	5.008
12) 4,4'-DDE	7.491	8.333	15902445	14859572	5.344	4.949
13) Dieldrin	7.691	8.478	18752761	16896160	5.867	5.420
14) Endrin	7.854	8.706	16153756	13876087	6.539	6.445
15) 4,4'-DDD	7.913	8.749	11737231	11254024	5.650	5.777
16) Endosulfa...	8.012	8.854	14001650	12686668	5.607	5.453
17) 4,4'-DDT	8.109	8.975	12632646	11635054	5.694	5.665
18) Endrin Al...	8.303	9.090	12590069	11838674	5.521	4.893
19) Endosulfa...	8.603	9.281	13843885	12518228	5.628	5.469
20) Methoxychlor	8.453	9.454	5565381	5652133	4.929	5.697
21) Endrin Ke...	8.797	9.683	16623046	14402455	5.695	5.653
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012008.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:16
Operator : MJB
Sample : 0B01012-CAL4
Misc : A19K130, AB 5 ppb
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:47:43 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012009.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:33
 Operator : MJB
 Sample : 0B01012-CAL5
 Misc : A19K131, AB 10 ppb
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:48:28 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

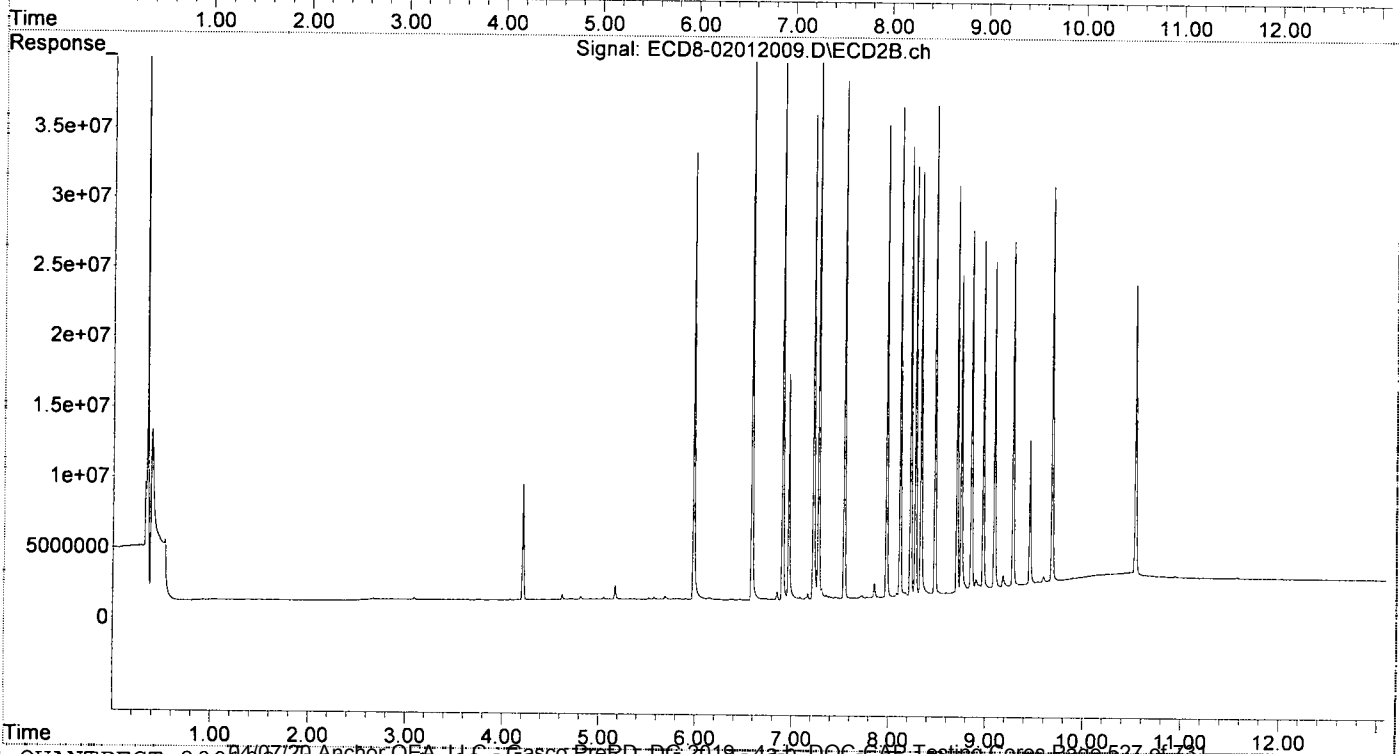
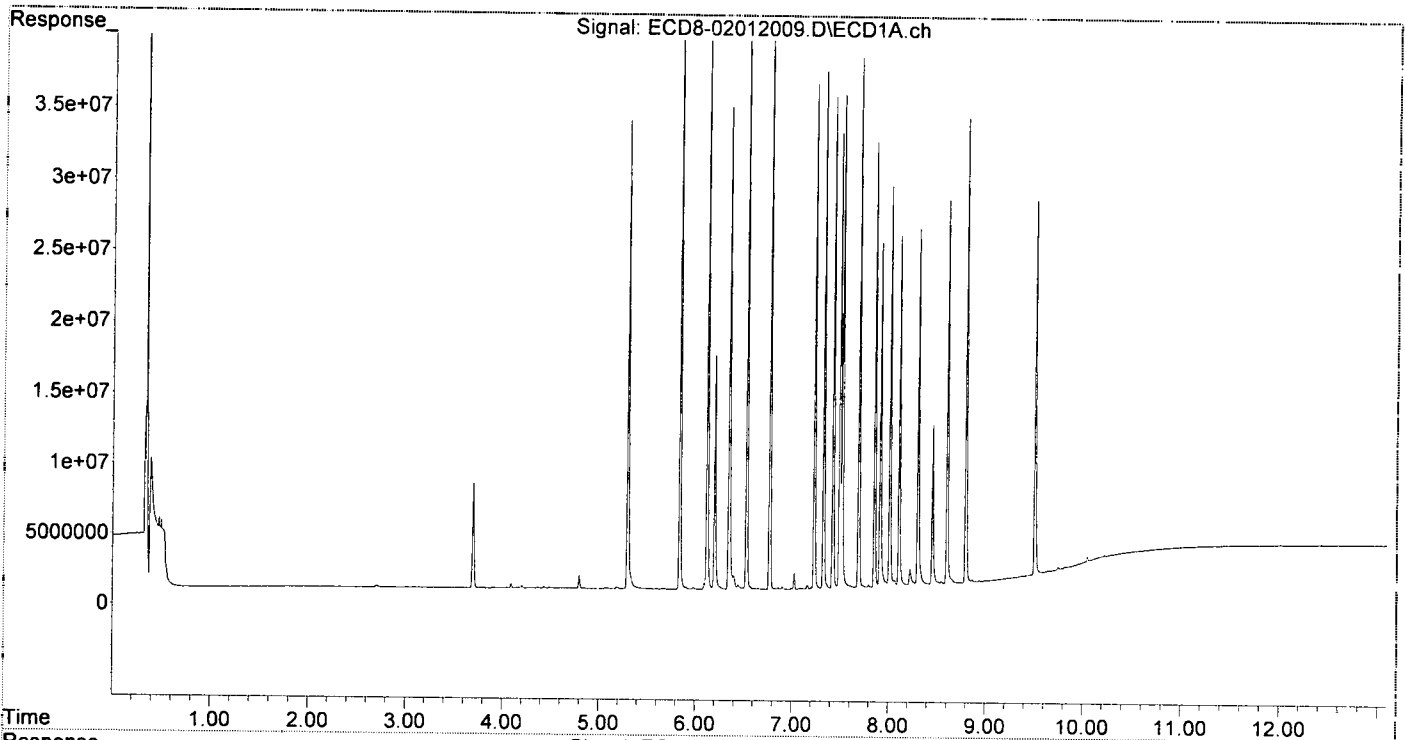
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	33031495	31880995	9.859	8.779
22) S DCBP (S)	9.507	10.537	26605868	21641632	10.977	10.254
Target Compounds						
2) a-BHC	5.836	6.585	46556069	43486995	12.465	11.969
3) g-BHC	6.119	6.902	40429962	38516992	12.660	12.087
4) b-BHC	6.198	6.967	16571546	16056619	11.782	10.924
5) Heptachlor	6.529	7.275	39900092	38743493	13.373	12.783
6) d-BHC	6.346	7.221	33972136	34556711	11.498	11.406
7) Aldrin	6.769	7.542	39553332	36952424	11.805	10.947
8) Heptachlo...	7.229	7.979	35561831	33689906	11.619	10.672
9) trans-Chl...	7.325	8.119	36451101	34945337	11.507	10.705
10) cis-Chlor...	7.423	8.226	34569322	32046693	11.034	9.739
11) Endosulfa...	7.518	8.277	34748038	30647883	11.795	10.246
12) 4,4'-DDE	7.491	8.332	32072763	30195241	10.656	9.852
13) Dieldrin	7.691	8.478	37298305	34982484	11.669	11.066
14) Endrin	7.854	8.706	31349018	29160503	12.690	13.309
15) 4,4'-DDD	7.912	8.749	24259195	22757929	11.678	11.485
16) Endosulfa...	8.012	8.854	28189352	25937677	11.288	11.067
17) 4,4'-DDT	8.108	8.975	24692282	25132611	11.129	12.043
18) Endrin Al...	8.302	9.090	25111118	23622312	11.012	9.763
19) Endosulfa...	8.604	9.282	27042784	25036220	10.994	10.878
20) Methoxychlor	8.453	9.455	11230884	10865325	9.947	10.983
21) Endrin Ke...	8.797	9.683	32676144	28830661	11.195	11.338
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012009.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:33
Operator : MJB
Sample : 0B01012-CAL5
Misc : A19K131, AB 10 ppb
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:48:28 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012010.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 16:50
 Operator : MJB
 Sample : 0B01012-CAL6
 Misc : A19K132, AB 25 ppb
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:49:00 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

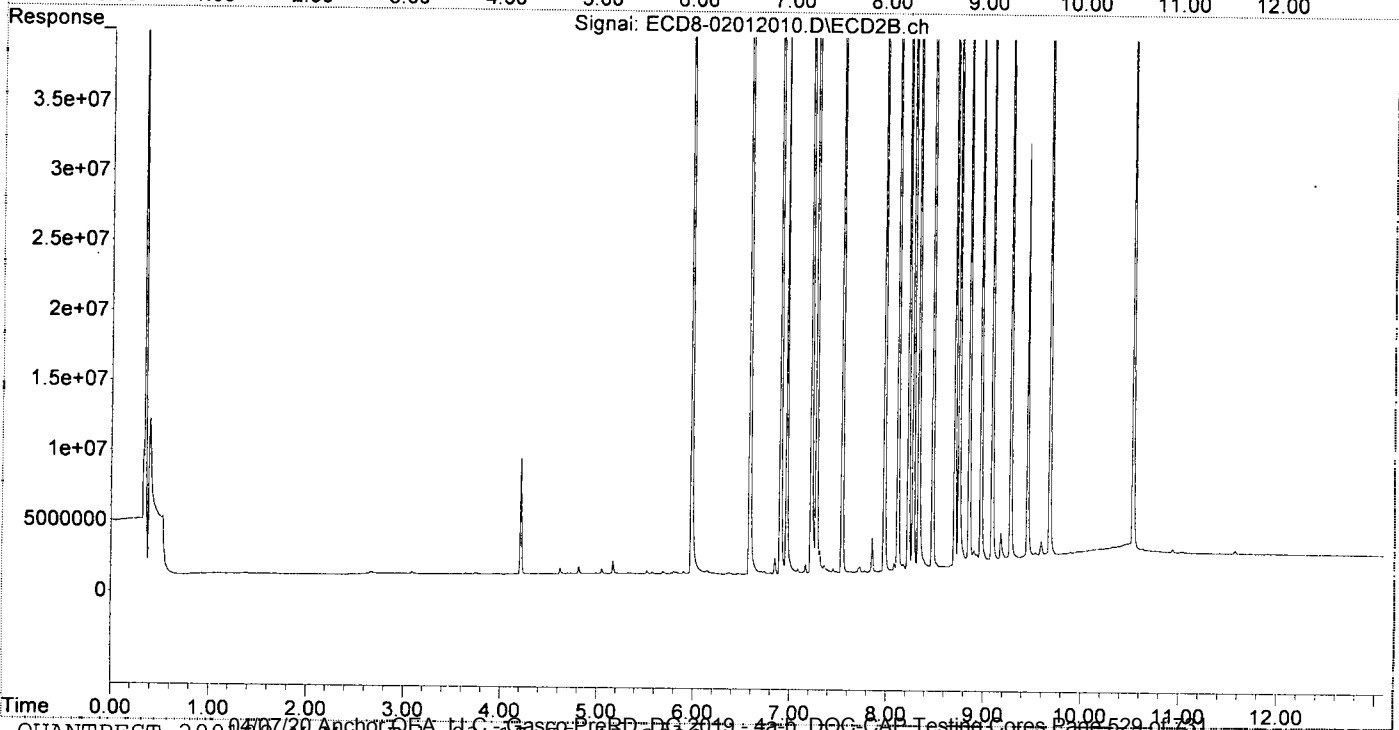
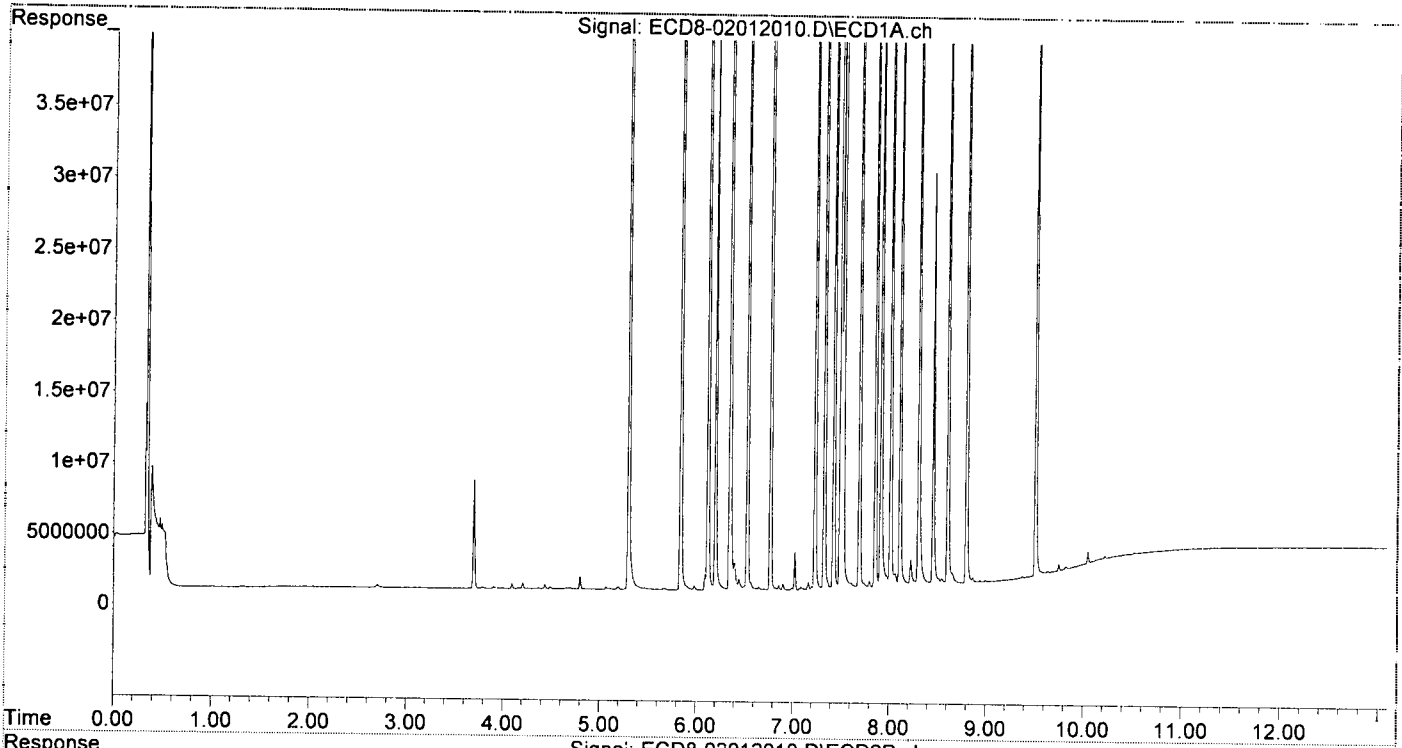
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	85829808	85149324	25.617	23.448
22) S DCBP (S)	9.507	10.537	66452642	54017910	27.578	25.565
Target Compounds						
2) a-BHC	5.836	6.583	121.6E6	119.2E6	32.565	31.414
3) g-BHC	6.118	6.901	105.7E6	107.9E6	33.104	32.700
4) b-BHC	6.197	6.966	43268809	42826341	30.764	29.138
5) Heptachlor	6.529	7.274	103.8E6	104.5E6	34.777	34.470
6) d-BHC	6.345	7.220	93700875	100.9E6	30.815	31.663
7) Aldrin	6.768	7.541	101.9E6	103.3E6	30.419	29.748
8) Heptachlo...	7.229	7.978	90603826	90693091	29.603	28.728
9) trans-Chl...	7.325	8.118	92344635	94107374	29.151	28.828
10) cis-Chlor...	7.422	8.225	91013817	90991019	29.049	27.652
11) Endosulfa...	7.518	8.277	85444422	85653357	29.003	28.636
12) 4,4'-DDE	7.490	8.331	82679641	86764148	27.009	27.132
13) Dieldrin	7.690	8.477	95868803	95883928	29.993	29.444
14) Endrin	7.854	8.706	82858624	79399830	33.541	34.752
15) 4,4'-DDD	7.911	8.749	63377806	65177226	30.509	31.320
16) Endosulfa...	8.011	8.853	73342261	73030196	29.368	30.180
17) 4,4'-DDT	8.108	8.975	68097447	70533268	30.692	32.246
18) Endrin Al...	8.302	9.089	61776811	60959956	27.091	25.194
19) Endosulfa...	8.603	9.281	70013419	70158024	28.463	29.519
20) Methoxychlor	8.452	9.454	28980569	30163827	25.668	29.626
21) Endrin Ke...	8.797	9.683	85585307	79449385	29.321	30.468
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012010.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 16:50
Operator : MJB
Sample : 0B01012-CAL6
Misc : A19K132, AB 25 ppb
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:49:00 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:07
 Operator : MJB
 Sample : 0B01012-CAL7
 Misc : A19K133, AB 50 ppb
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:42:57 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Thu Jan 09 17:17:47 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

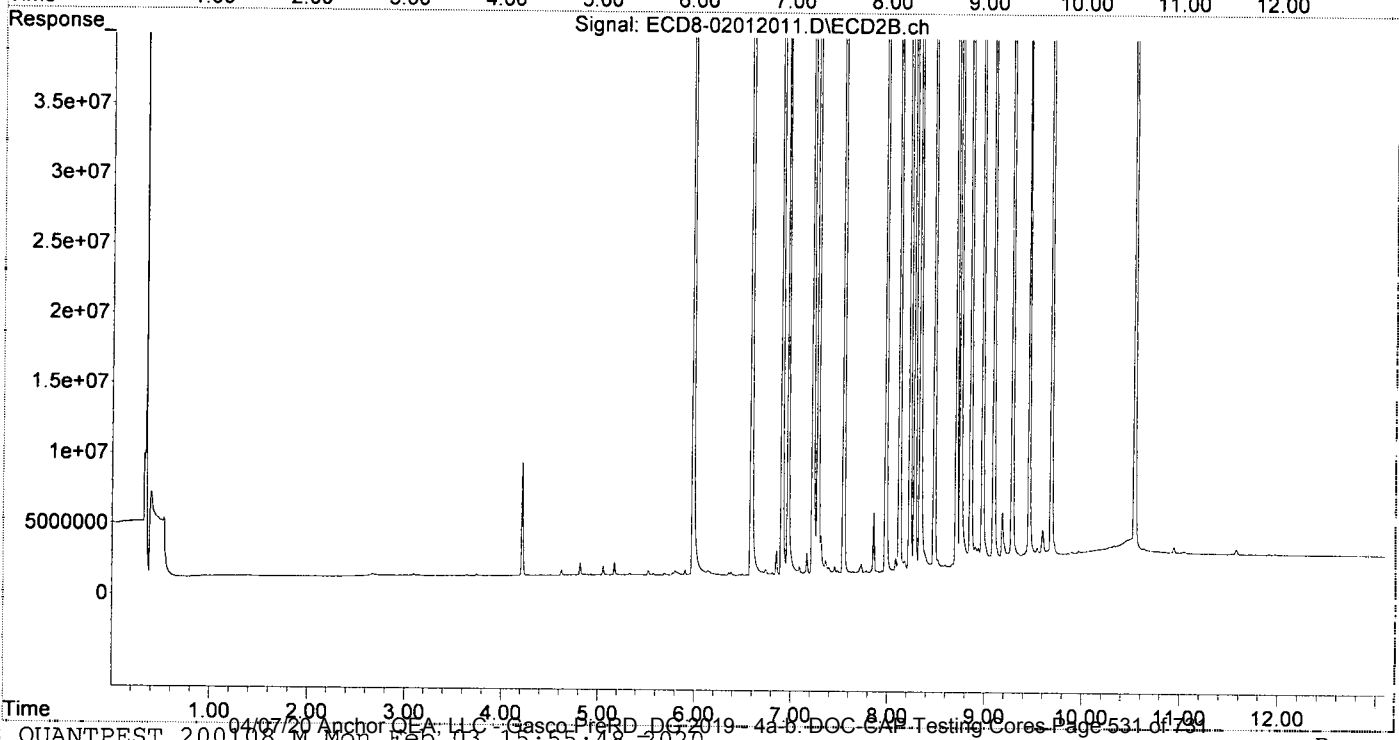
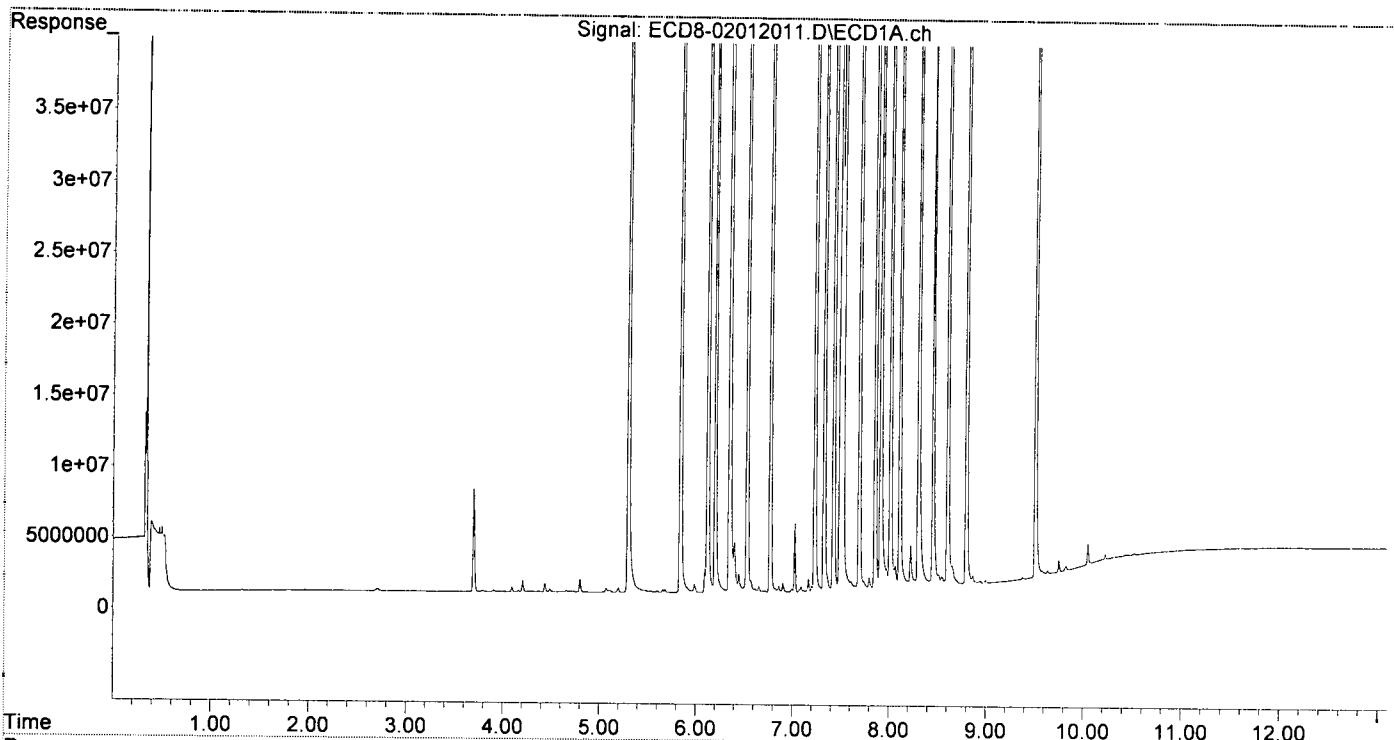
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	160.2E6	168.3E6	47.813	46.342
22) S DCBP (S)	9.507	10.537	123.4E6	103.8E6	50.912	48.124
Target Compounds						
2) a-BHC	5.837	6.585	224.9E6	233.3E6	60.209	58.407
3) g-BHC	6.119	6.902	203.3E6	211.8E6	63.651	61.548
4) b-BHC	6.197	6.966	81866401	85296235	58.207	58.033
5) Heptachlor	6.529	7.276	192.3E6	210.9E6	64.444	69.577
6) d-BHC	6.346	7.221	182.4E6	192.9E6	58.189	57.382
7) Aldrin	6.769	7.542	195.5E6	195.8E6	58.338	54.502
8) Heptachlo...	7.230	7.979	168.2E6	178.9E6	54.941	56.674
9) trans-Chl...	7.326	8.119	181.3E6	181.2E6	57.246	55.515
10) cis-Chlor...	7.423	8.226	167.4E6	173.0E6	53.486	52.585
11) Endosulfa...	7.518	8.277	163.9E6	167.4E6	55.647	55.978
12) 4,4'-DDE	7.490	8.332	168.0E6	175.2E6	53.709	52.032
13) Dieldrin	7.691	8.478	179.5E6	192.1E6	56.152	56.758
14) Endrin	7.854	8.706	155.0E6	154.0E6	62.763	63.992
15) 4,4'-DDD	7.910	8.748	125.3E6	136.5E6	60.321	61.291
16) Endosulfa...	8.011	8.854	141.9E6	146.2E6	56.802	57.675
17) 4,4'-DDT	8.109	8.975	134.8E6	138.4E6	60.756	59.598
18) Endrin Al...	8.302	9.090	118.6E6	123.5E6	51.995	51.032
19) Endosulfa...	8.603	9.281	133.9E6	135.1E6	54.419	54.356
20) Methoxychlor	8.452	9.453	56743855	60278479	50.258	56.326
21) Endrin Ke...	8.797	9.682	159.8E6	156.7E6	54.742	57.609
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012011.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:07
Operator : MJB
Sample : 0B01012-CAL7
Misc : A19K133, AB 50 ppb
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:42:57 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Thu Jan 09 17:17:47 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:24
 Operator : MJB
 Sample : 0B01012-CAL8
 Misc : A19K134, AB 100 ppb
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:49:32 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

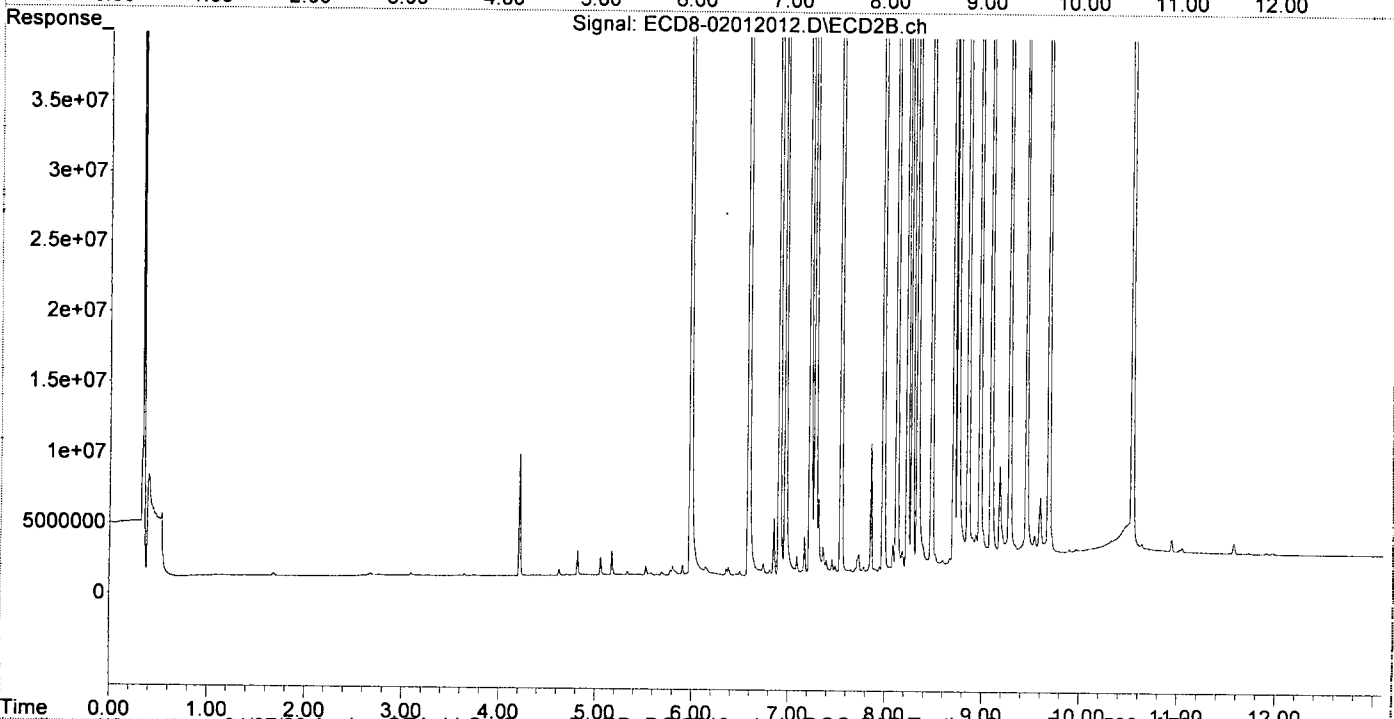
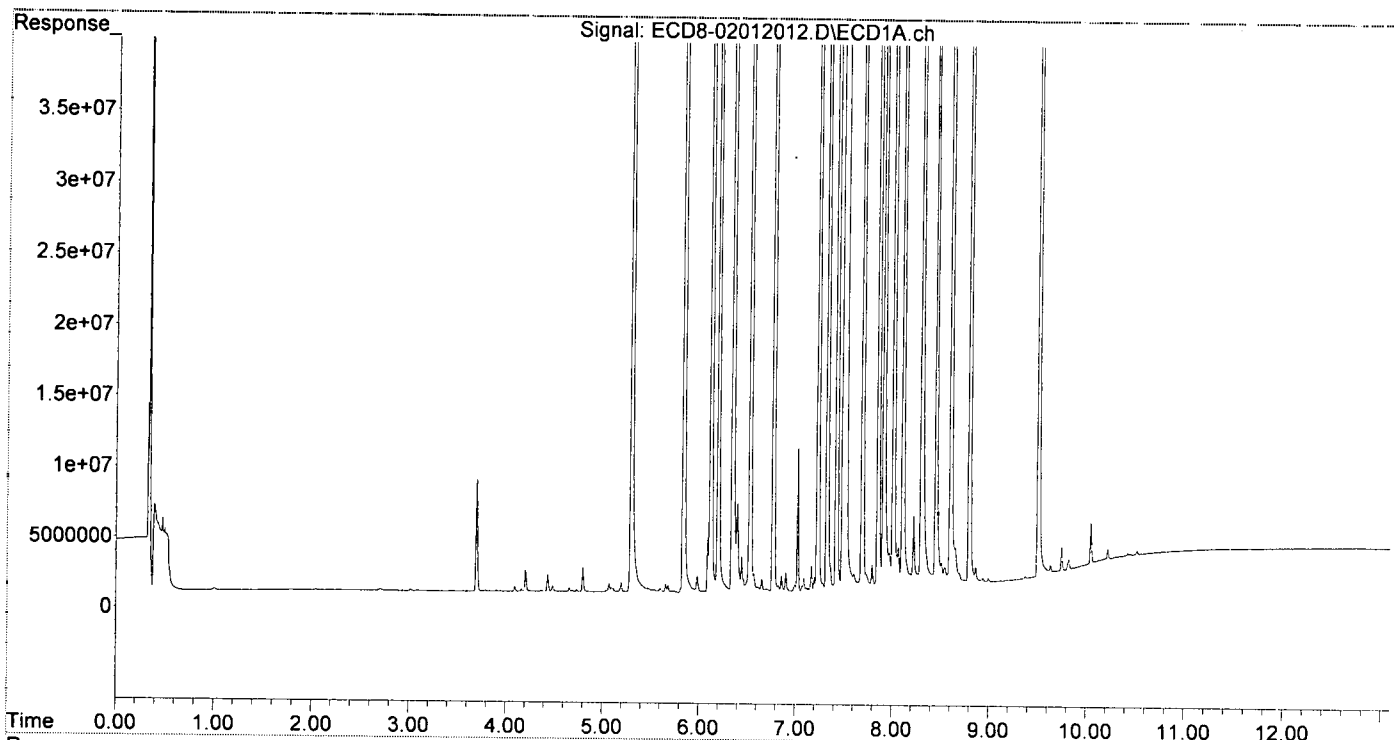
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.298	5.982	355.4E6	386.4E6	106.080	106.420
22) S DCBP (S)	9.507	10.537	280.1E6	240.0E6	113.028	104.904
Target Compounds						
2) a-BHC	5.837	6.585	509.4E6	553.7E6	136.390	123.895
3) g-BHC	6.120	6.902	435.9E6	491.3E6	136.505	130.080
4) b-BHC	6.197	6.966	185.8E6	196.8E6	132.106	133.903
5) Heptachlor	6.529	7.276	416.3E6	477.0E6	139.520	157.372
6) d-BHC	6.345	7.221	419.9E6	472.2E6	125.268	124.232
7) Aldrin	6.769	7.542	420.9E6	472.0E6	125.625	120.670
8) Heptachlo...	7.229	7.979	380.6E6	404.3E6	124.368	128.057
9) trans-Chl...	7.325	8.119	392.8E6	432.7E6	123.984	132.537
10) cis-Chlor...	7.422	8.226	377.5E6	395.1E6	120.481	120.061
11) Endosulfa...	7.517	8.277	349.5E6	392.5E6	118.629	131.230
12) 4,4'-DDE	7.489	8.331	378.7E6	405.9E6	115.636	108.497
13) Dieldrin	7.690	8.478	402.8E6	425.1E6	126.020	116.163
14) Endrin	7.854	8.706	338.4E6	354.5E6	136.997	131.983
15) 4,4'-DDD	7.909	8.747	297.7E6	330.1E6	143.286	129.196
16) Endosulfa...	8.010	8.853	331.9E6	341.9E6	132.896	121.974
17) 4,4'-DDT	8.108	8.975	298.8E6	340.3E6	134.676	127.973
18) Endrin Al...	8.301	9.090	258.6E6	290.0E6	113.407	119.845
19) Endosulfa...	8.603	9.281	304.5E6	315.4E6	123.771	114.670
20) Methoxychlor	8.450	9.453	133.1E6	149.0E6	117.904	123.547
21) Endrin Ke...	8.797	9.683	366.8E6	363.7E6	125.660	121.406
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorthane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:24
 Operator : MJB
 Sample : 0B01012-CAL8
 Misc : A19K134, AB 100 ppb
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:49:32 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 17:41
 Operator : MJB
 Sample : 0B01012-CAL9
 Misc : A19K126, AB 200 ppb
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:50:01 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

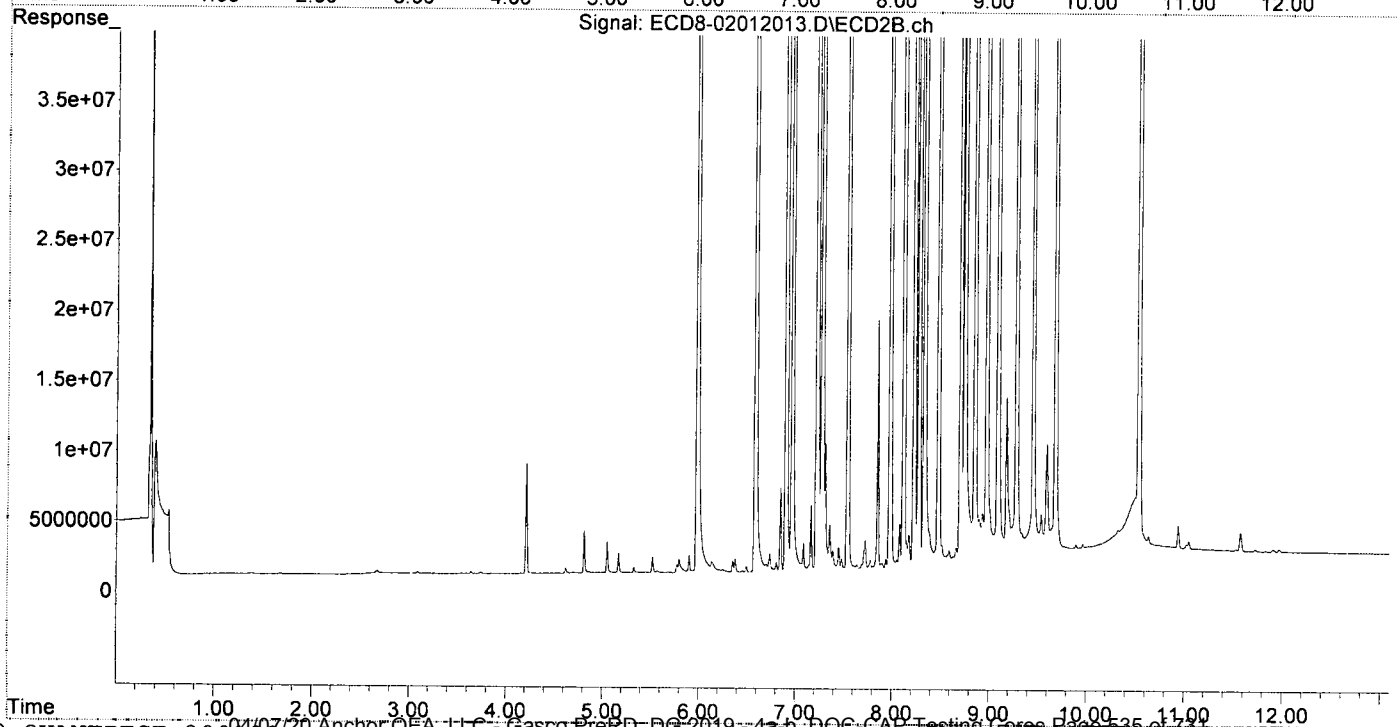
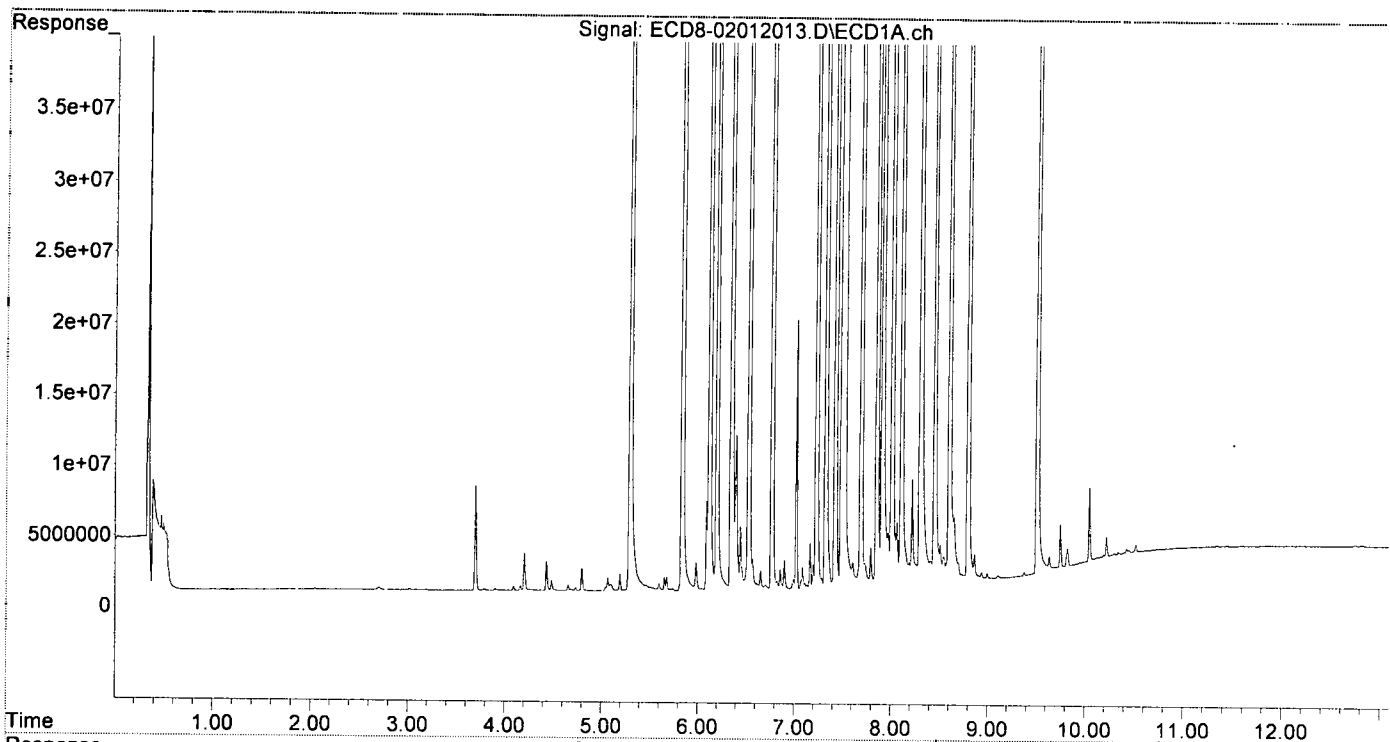
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.297	5.981	683.0E6	808.5E6	203.858	222.644
22) S DCBP (S)	9.507	10.537	554.4E6	477.6E6	215.222	191.382
Target Compounds						
2) a-BHC	5.837	6.585	1000.4E6	1133.4E6	267.852	219.660
3) g-BHC	6.119	6.902	881.5E6	980.3E6	276.016	229.963
4) b-BHC	6.196	6.965	344.6E6	391.9E6	244.988	266.622
5) Heptachlor	6.529	7.275	827.5E6	966.0E6	277.356	318.726
6) d-BHC	6.344	7.220	826.3E6	939.7E6	225.053	214.181
7) Aldrin	6.768	7.542	802.5E6	928.8E6	239.505	213.235
8) Heptachlo...	7.229	7.979	732.6E6	788.7E6	239.361	249.844
9) trans-Chl...	7.325	8.119	764.5E6	821.8E6	241.328	251.753
10) cis-Chlor...	7.422	8.226	729.7E6	792.8E6	232.891	240.922
11) Endosulfa...	7.517	8.277	669.0E6	733.7E6	227.067	245.303
12) 4,4'-DDE	7.488	8.331	725.7E6	835.1E6	207.825	193.980
13) Dieldrin	7.690	8.478	786.9E6	871.2E6	246.188	212.340
14) Endrin	7.854	8.705	655.2E6	738.6E6	265.209	237.000
15) 4,4'-DDD	7.909	8.749	592.3E6	679.7E6	285.131	225.207
16) Endosulfa...	8.011	8.853	596.6E6	684.8E6	238.912	214.590
17) 4,4'-DDT	8.108	8.975	627.2E6	706.5E6	282.677	225.118
18) Endrin Al...	8.301	9.090	520.7E6	585.1E6	228.338	241.805
19) Endosulfa...	8.603	9.281	590.5E6	660.6E6	240.060	208.614
20) Methoxychlor	8.450	9.453	273.2E6	304.3E6	242.007	217.690
21) Endrin Ke...	8.797	9.683	708.8E6	737.0E6	242.831	216.273
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012013.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 17:41
Operator : MJB
Sample : 0B01012-CAL9
Misc : A19K126, AB 200 ppb
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:50:01 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:43:43 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:31
 Operator : MJB
 Sample : 0B01012-CALA
 Misc : A20B003, 9-42 0.5 ppb
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:52:38 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

*MJB
2/3/20*

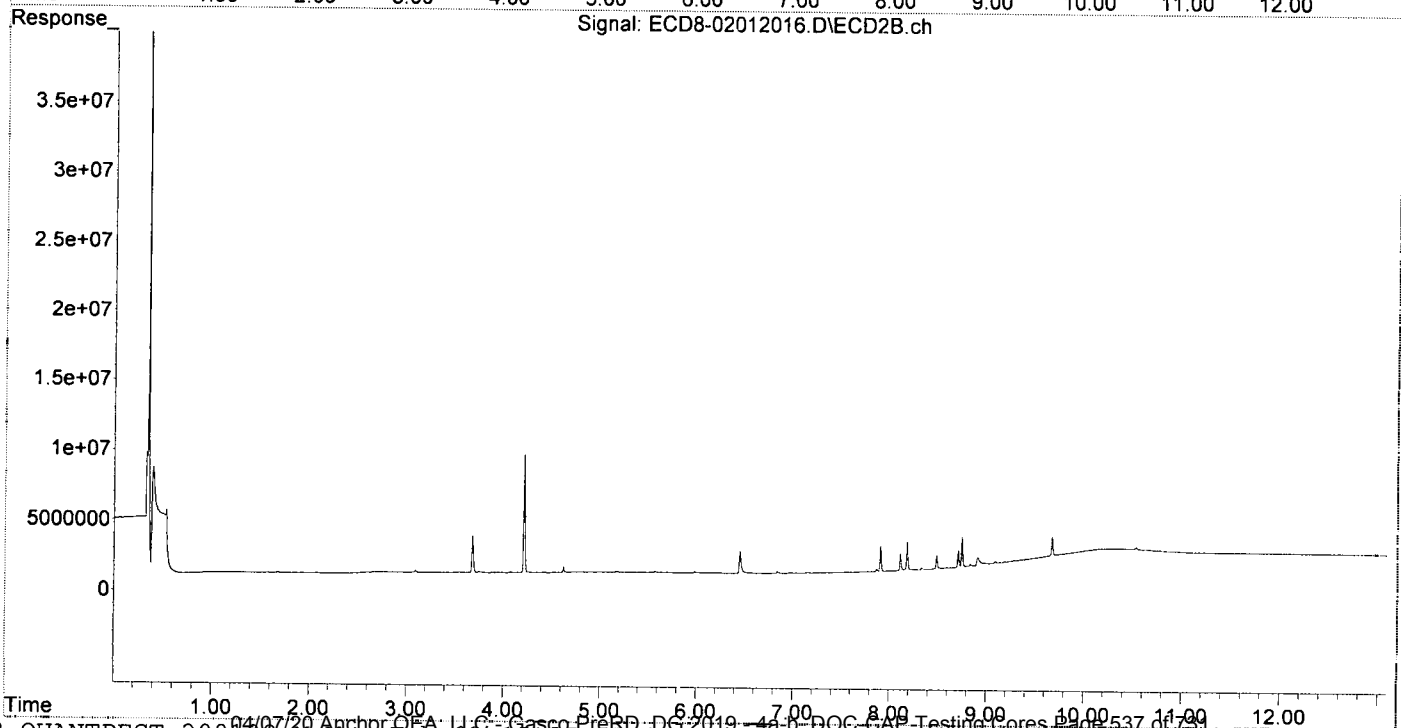
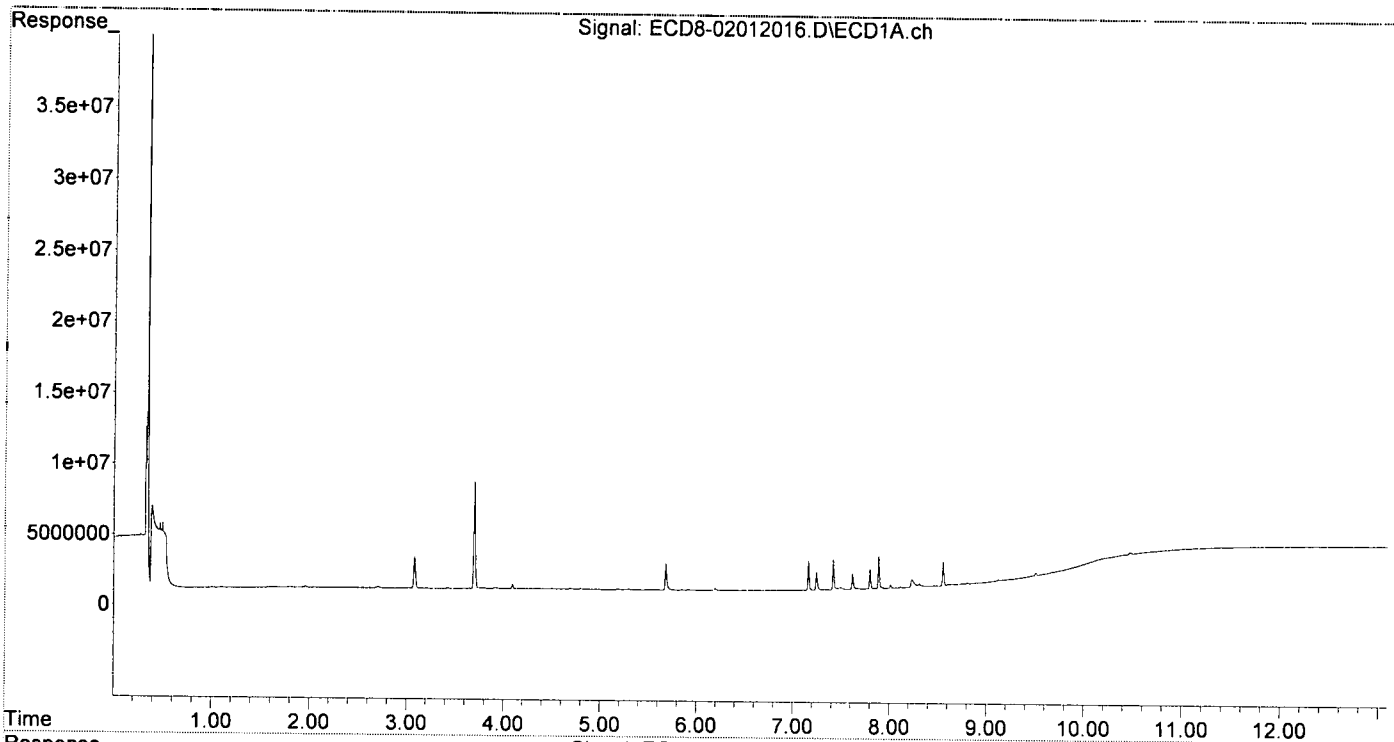
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.080	3.680	2278541	2594123	0.590	0.586
24) Hexachlor...	5.681	6.450	1894604	1616133	0.448	0.363
25) Oxychlordane	7.160	7.908	2078442	1817597	0.589	0.503
26) 2,4'-DDE	7.243	8.113	1290069	1200073	0.472	0.516
27) trans-Non...	7.417	8.182	2168811	2004659	0.563	0.512
28) 2,4'-DDD	7.615	8.487	1111537	960869	0.540	0.423
29) 2,4'-DDT	7.797	8.710	1418724	1210132	0.588	0.501
30) cis-Nonac...	7.887	8.749	2296885	2084280	0.629	0.570
31) Mirex	8.552	9.675	1693083	1475836	0.543	0.334 #
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012016.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:31
Operator : MJB
Sample : 0B01012-CALA
Misc : A20B003, 9-42 0.5 ppb
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:52:38 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualeCD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012017.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 18:48
 Operator : MJB
 Sample : 0B01012-CALB
 Misc : A19K263, 9-42 1 ppb
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:53:21 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

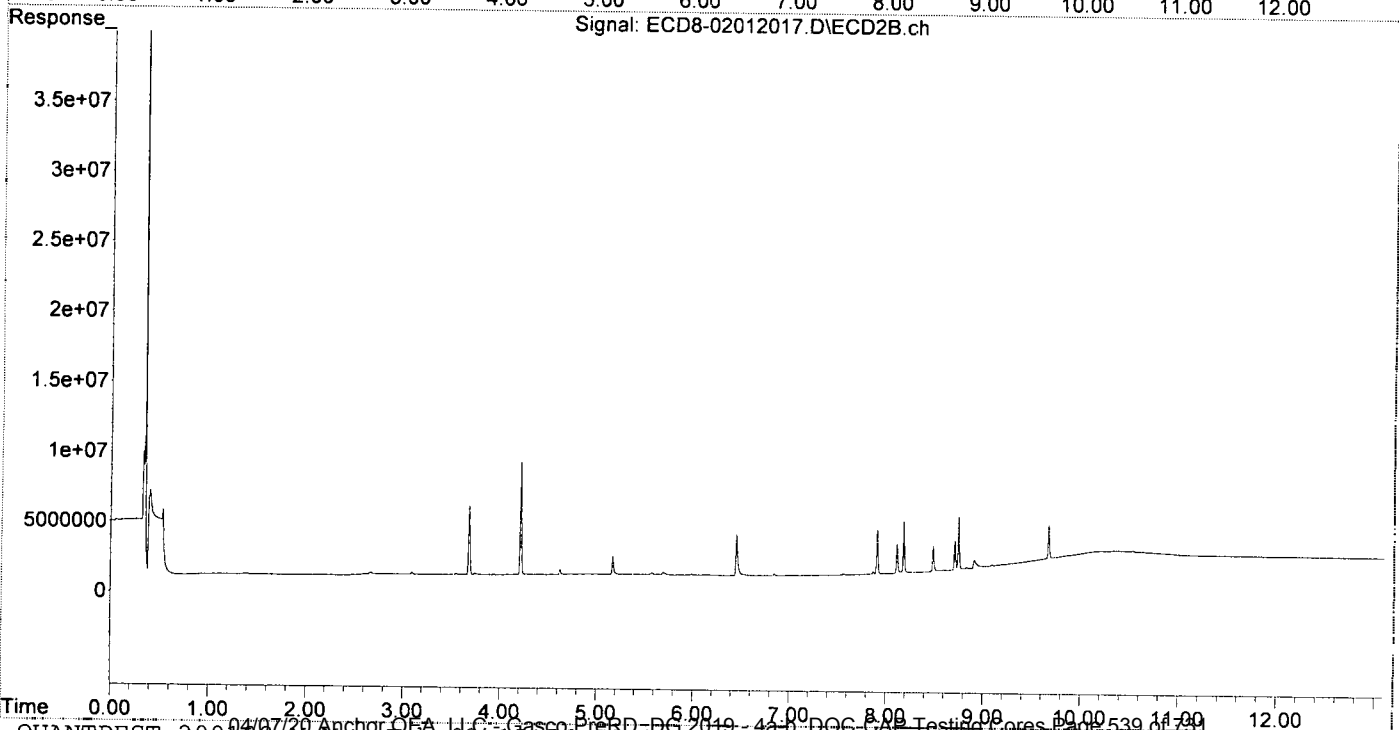
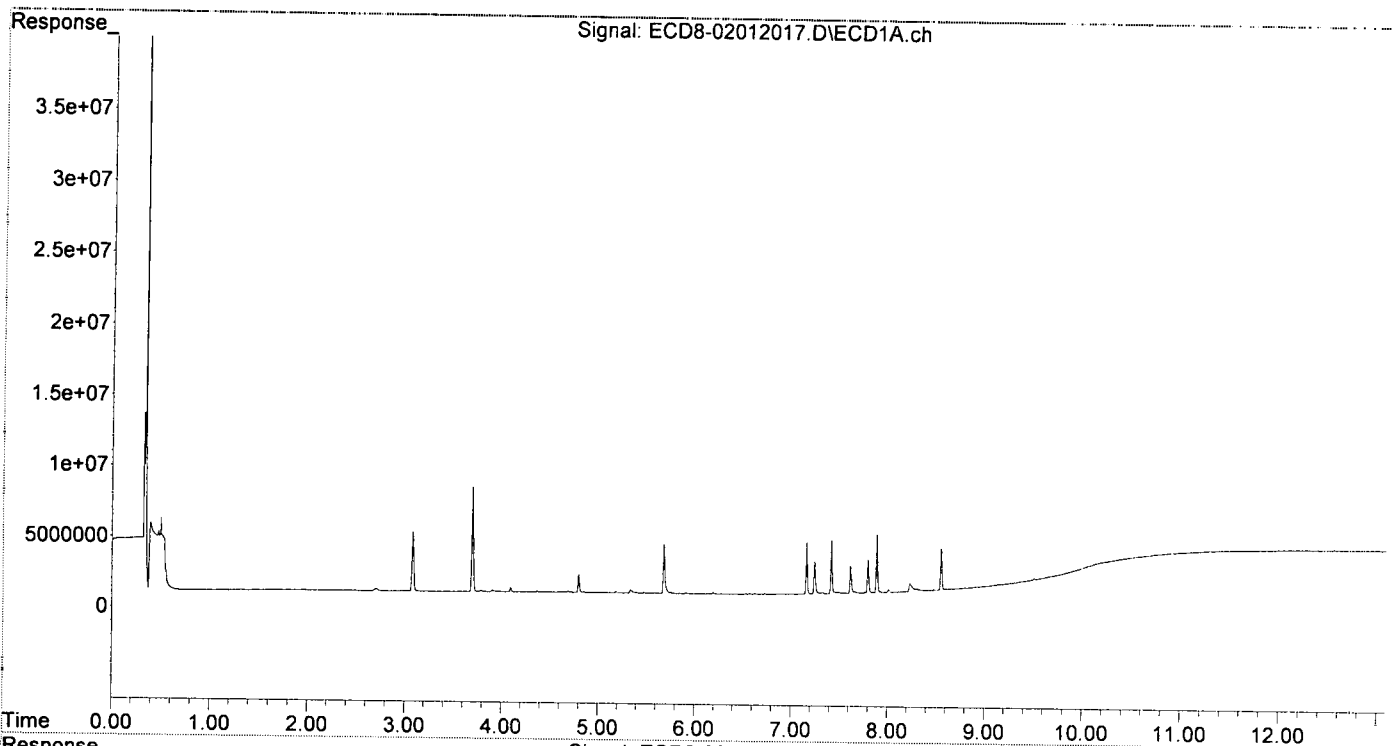
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.080	3.679	4206156	4878910	1.189	1.102
24) Hexachlor...	5.680	6.450	3451879	2946247	0.938	0.794
25) Oxychlordane	7.159	7.908	3626338	3174792	1.171	1.036
26) 2,4'-DDE	7.243	8.112	2295081	2104301	0.943	0.904
27) trans-Non...	7.417	8.182	3768972	3680280	1.101	1.087
28) 2,4'-DDD	7.614	8.486	1934222	1795089	1.062	0.972
29) 2,4'-DDT	7.796	8.709	2374152	2100185	1.103	1.012
30) cis-Nonac...	7.886	8.748	4089263	3801985	1.137	1.039
31) Mirex	8.552	9.674	2918797	2854711	1.138	1.077
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012017.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 18:48
Operator : MJB
Sample : 0B01012-CALB
Misc : A19K263, 9-42 1 ppb
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 14:53:21 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012018.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:05
 Operator : MJB
 Sample : 0B01012-CALC
 Misc : A19K264, 9-42 2 ppb
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:17:29 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

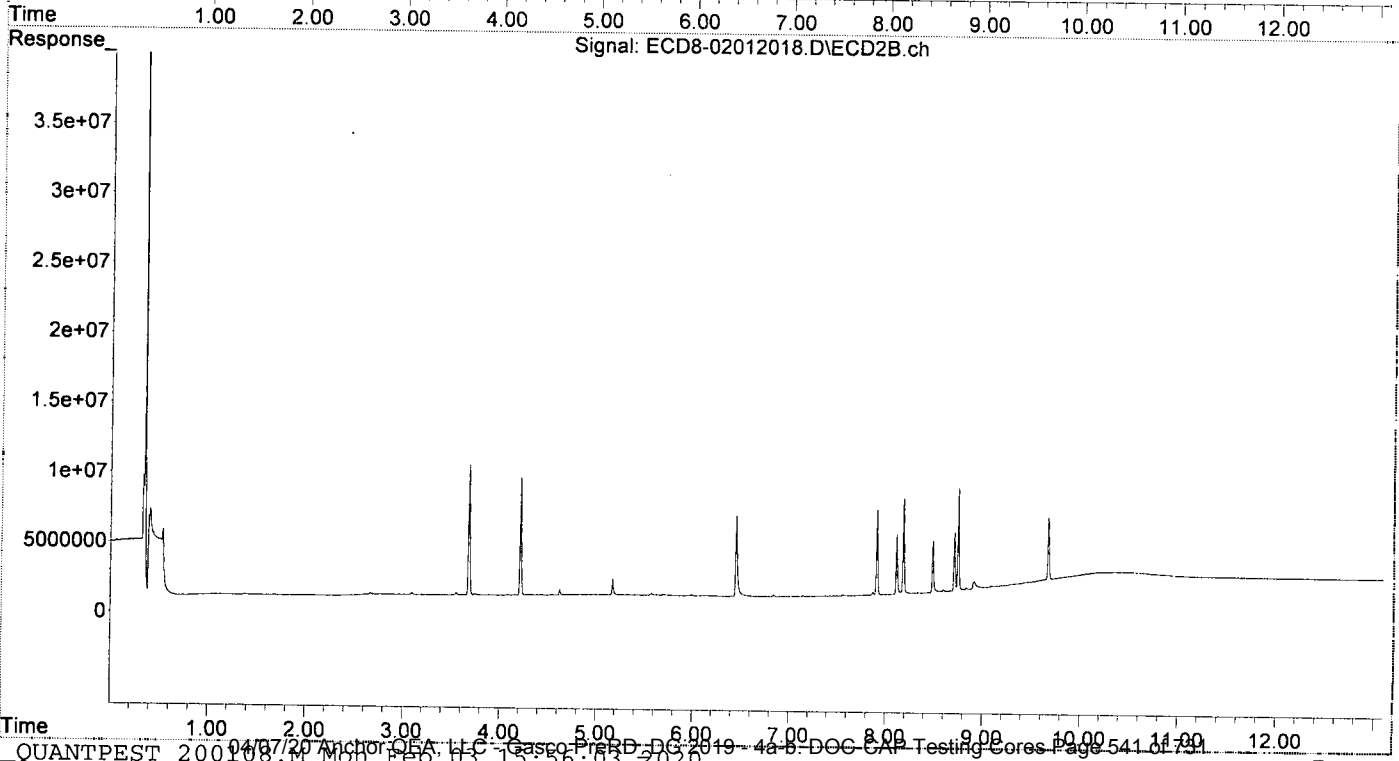
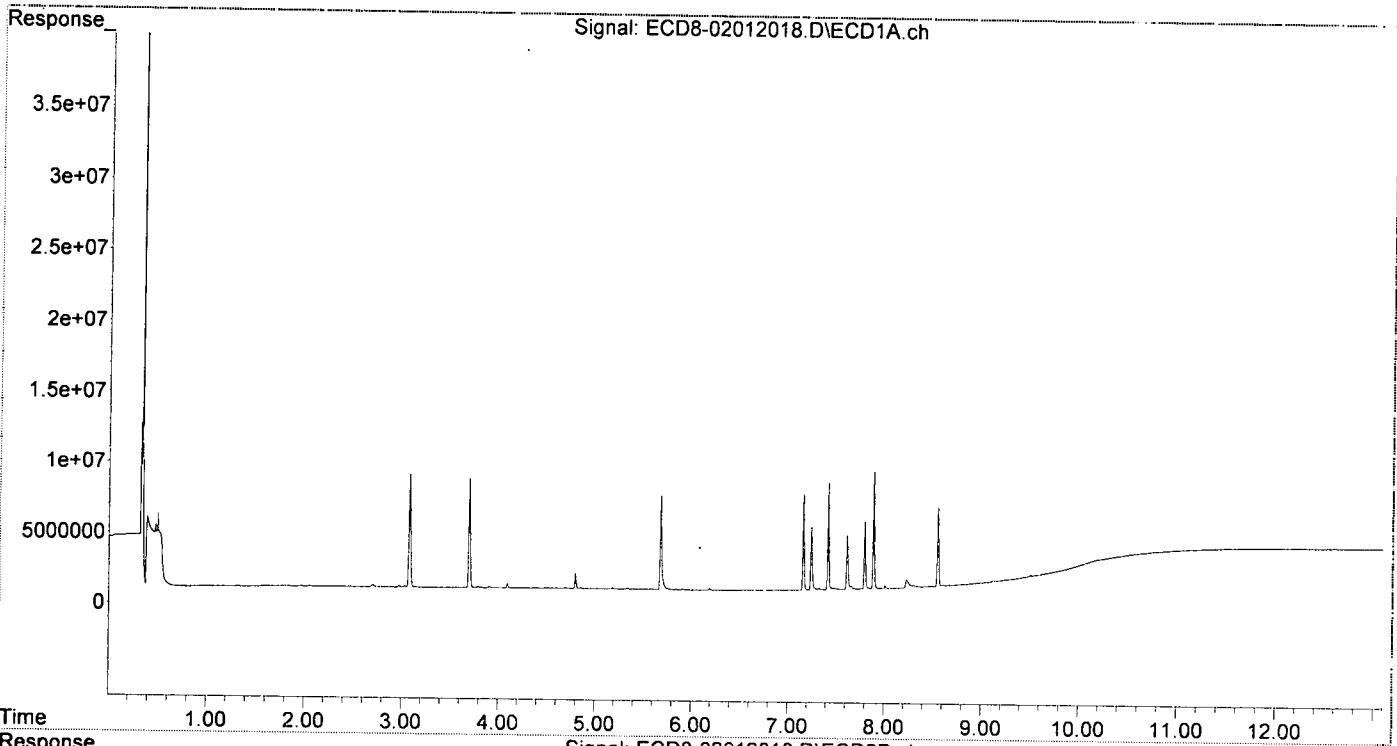
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.080	3.680	7973044	9306742	2.362	2.102
24) Hexachlor...	5.680	6.449	6640927	5773353	1.943	1.709
25) Oxychlordane	7.158	7.907	6769962	6050162	2.356	2.165
26) 2,4'-DDE	7.241	8.112	4488919	4260806	1.970	1.831
27) trans-Non...	7.416	8.182	7569675	6830472	2.379	2.166
28) 2,4'-DDD	7.614	8.485	3838920	3680145	2.272	2.211
29) 2,4'-DDT	7.795	8.709	4727347	4187285	2.371	2.209
30) cis-Nonac...	7.886	8.748	8283514	7352547	2.303	2.009
31) Mirex	8.551	9.674	5534484	4870687	2.406	2.161
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:05
Operator : MJB
Sample : 0B01012-CALC
Misc : A19K264, 9-42 2 ppb
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:17:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012019.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:22
 Operator : MJB
 Sample : 0B01012-CALD
 Misc : A19K265, 9-42 5 ppb
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:18:09 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

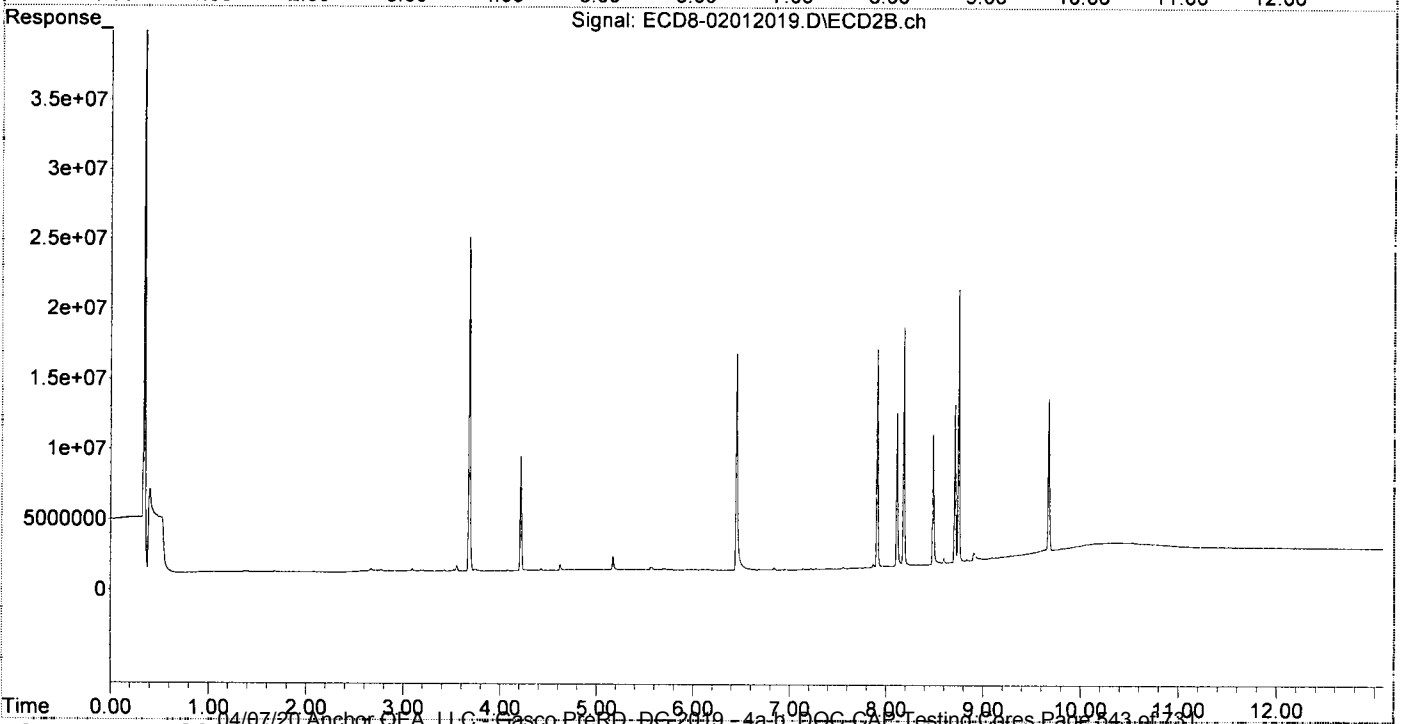
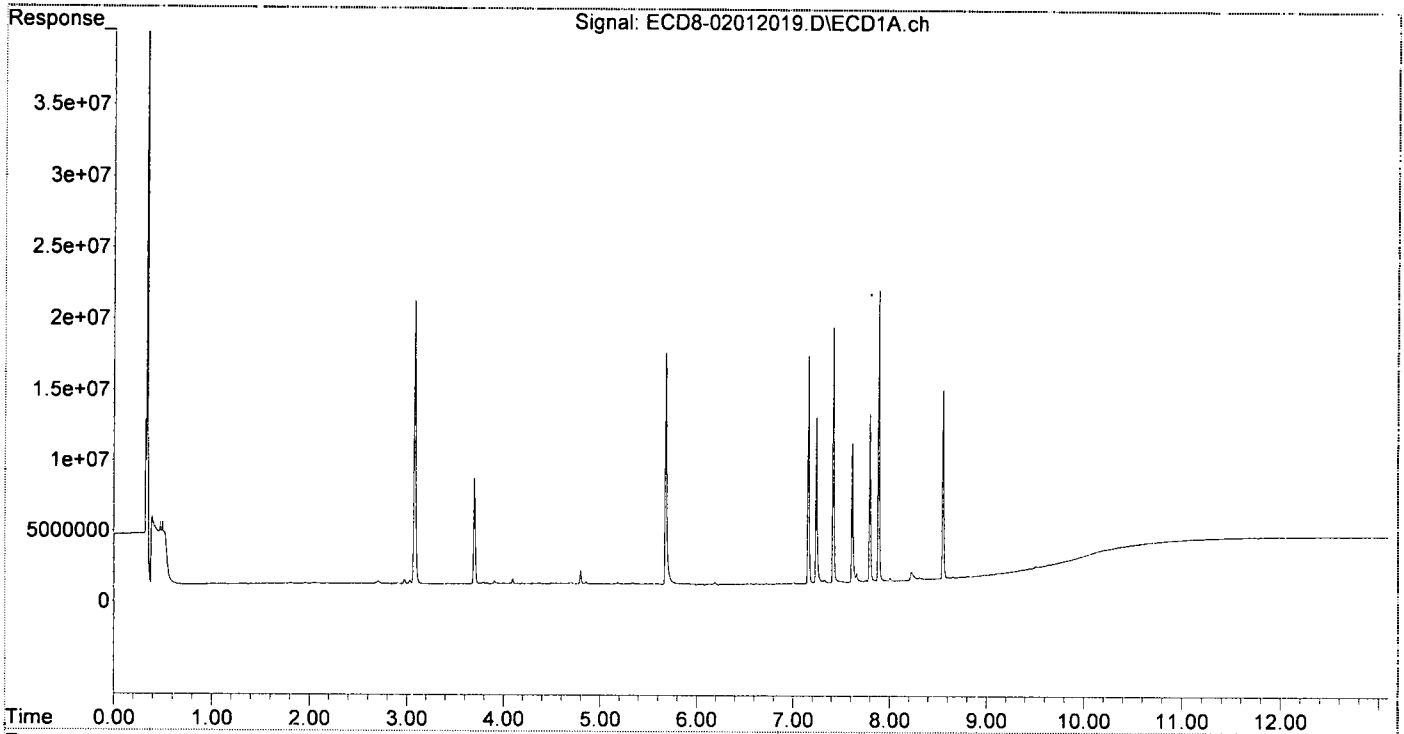
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.081	3.680	20008341	23748664	6.117	5.363
24) Hexachlor...	5.680	6.449	16447257	15411069	5.038	4.817
25) Oxychlordane	7.159	7.908	16184302	15509955	5.911	5.869
26) 2,4'-DDE	7.241	8.111	11743726	10906405	5.373	4.686
27) trans-Non...	7.416	8.182	18115649	16987074	5.929	5.638
28) 2,4'-DDD	7.613	8.485	9882639	9298557	6.114	5.886
29) 2,4'-DDT	7.795	8.709	11872885	11358035	6.227	6.298
30) cis-Nonac...	7.886	8.748	20605958	19585336	5.730	5.353
31) Mirex	8.551	9.674	13322527	11467148	6.181	5.694
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012019.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:22
Operator : MJB
Sample : 0B01012-CALD
Misc : A19K265, 9-42 5 ppb
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:09 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012020.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:38
 Operator : MJB
 Sample : 0B01012-CALE
 Misc : A19K266, 9-42 10 ppb
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:18:44 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

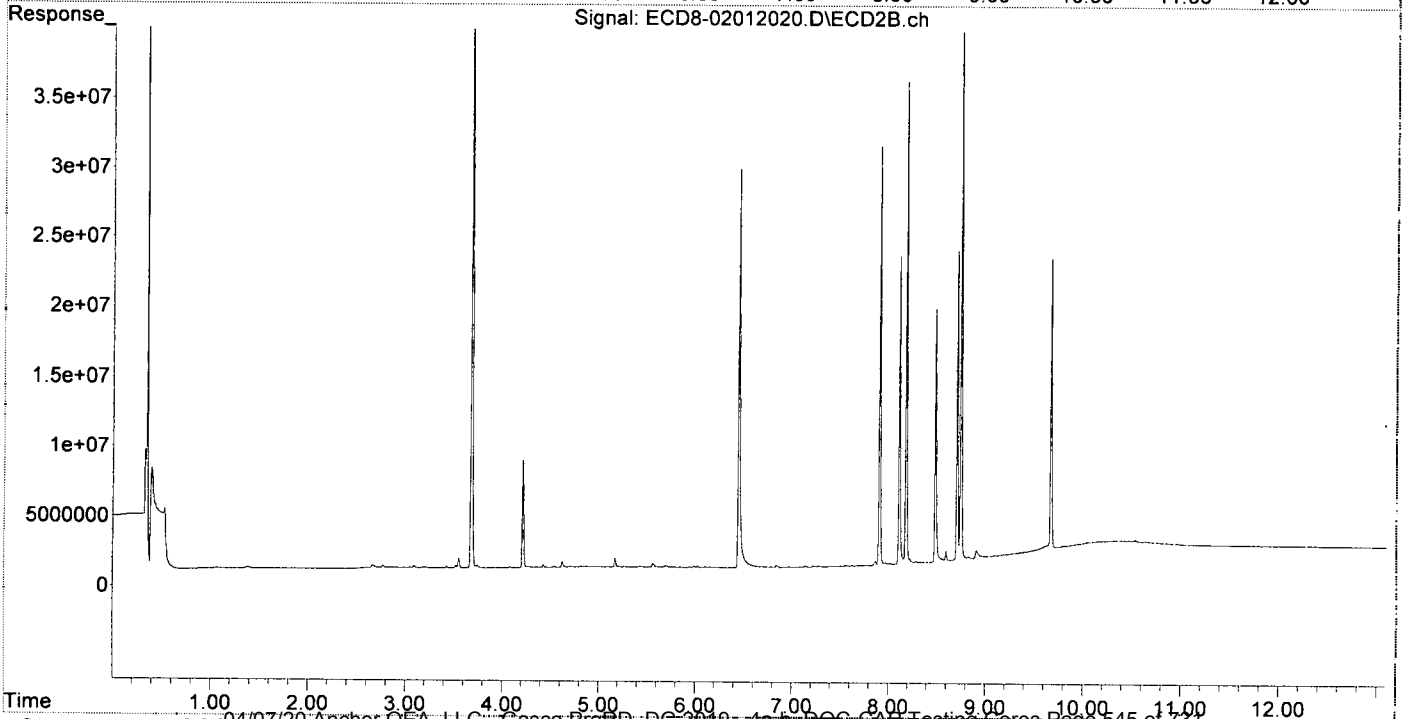
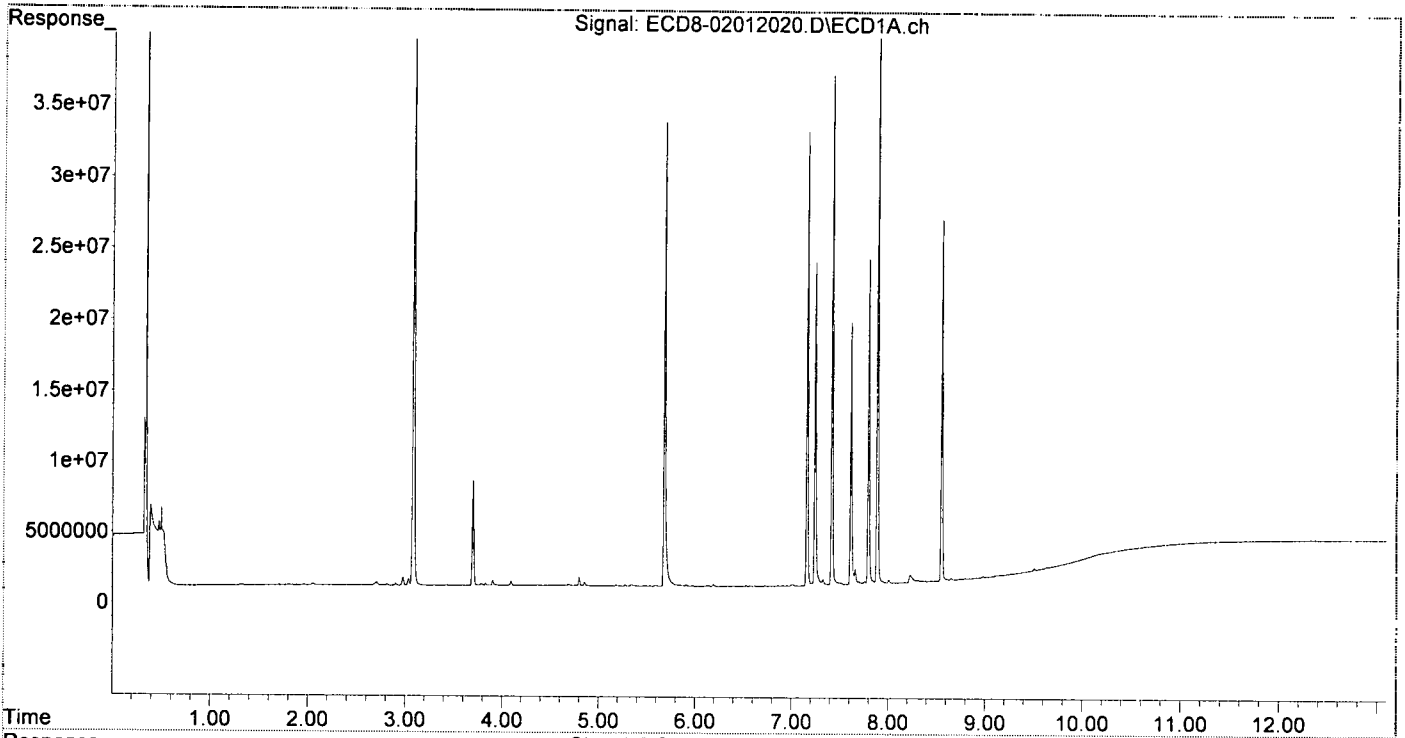
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.081	3.680	38377580	47088422	11.877	10.633
24) Hexachlor...	5.679	6.449	32647902	28525390	10.167	9.020
25) Oxychlordane	7.158	7.908	31984005	29890292	11.910	11.474
26) 2,4'-DDE	7.240	8.112	22804364	21958095	10.576	9.435
27) trans-Non...	7.416	8.182	35883154	34402162	11.922	11.557
28) 2,4'-DDD	7.613	8.484	18534620	18062773	11.622	11.566
29) 2,4'-DDT	7.795	8.708	22928210	22137862	12.206	12.378
30) cis-Nonac...	7.886	8.748	40436692	38325797	11.245	10.474
31) Mirex	8.551	9.673	25430296	20962075	12.052	10.743
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:38
Operator : MJB
Sample : 0B01012-CALE
Misc : A19K266, 9-42 10 ppb
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:18:44 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012021.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 19:55
 Operator : MJB
 Sample : 0B01012-CALF
 Misc : A19J407, 9-42 25 ppb
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:19:17 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

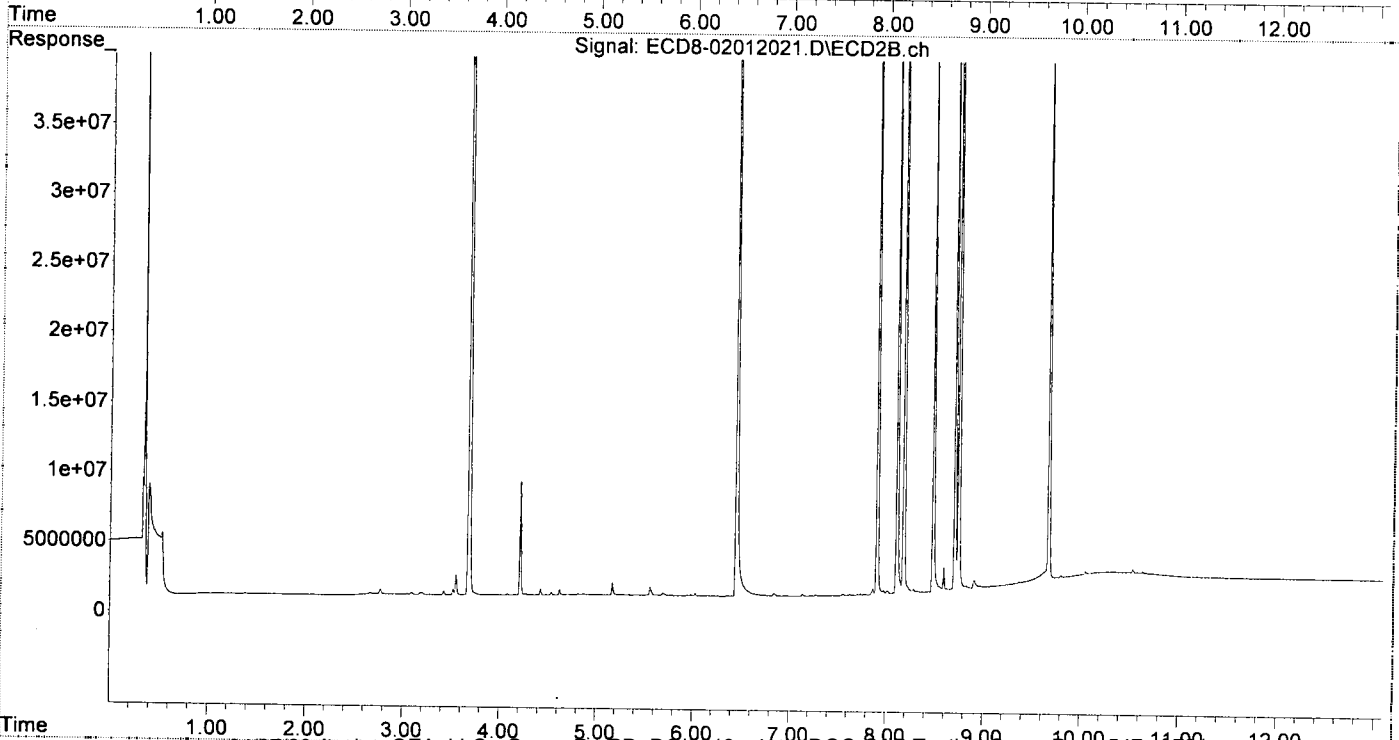
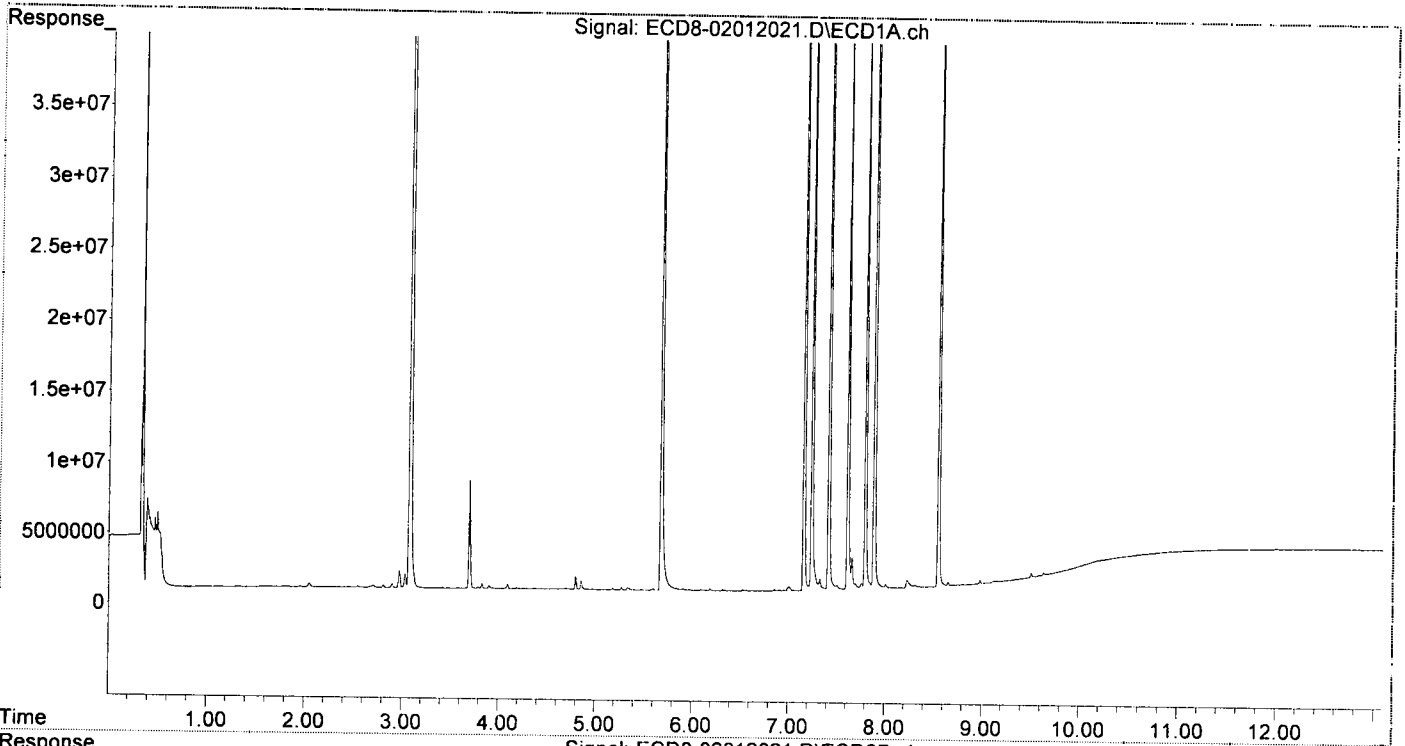
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.081	3.680	87282581	109.6E6	27.383	24.749
24) Hexachlor...	5.679	6.449	77942708	72282140	24.622	22.836
25) Oxychlordane	7.158	7.908	72990996	71584795	27.667	27.556
26) 2,4'-DDE	7.240	8.111	52202377	51113359	24.496	21.963
27) trans-Non...	7.416	8.181	81812536	80789047	27.484	27.123
28) 2,4'-DDD	7.612	8.485	42203429	42962025	26.742	27.382
29) 2,4'-DDT	7.794	8.708	53607879	53723446	28.889	29.763
30) cis-Nonac...	7.887	8.748	91550344	90384875	25.458	24.702
31) Mirex	8.552	9.673	55829392	47784220	26.793	24.787
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 19:55
Operator : MJB
Sample : 0B01012-CALF
Misc : A19J407, 9-42 25 ppb
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:19:17 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualeCD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012022.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:12
 Operator : MJB
 Sample : 0B01012-CALG
 Misc : A19J408, 9-42 50 ppb
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:51:48 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation

*WB
2/3/20*

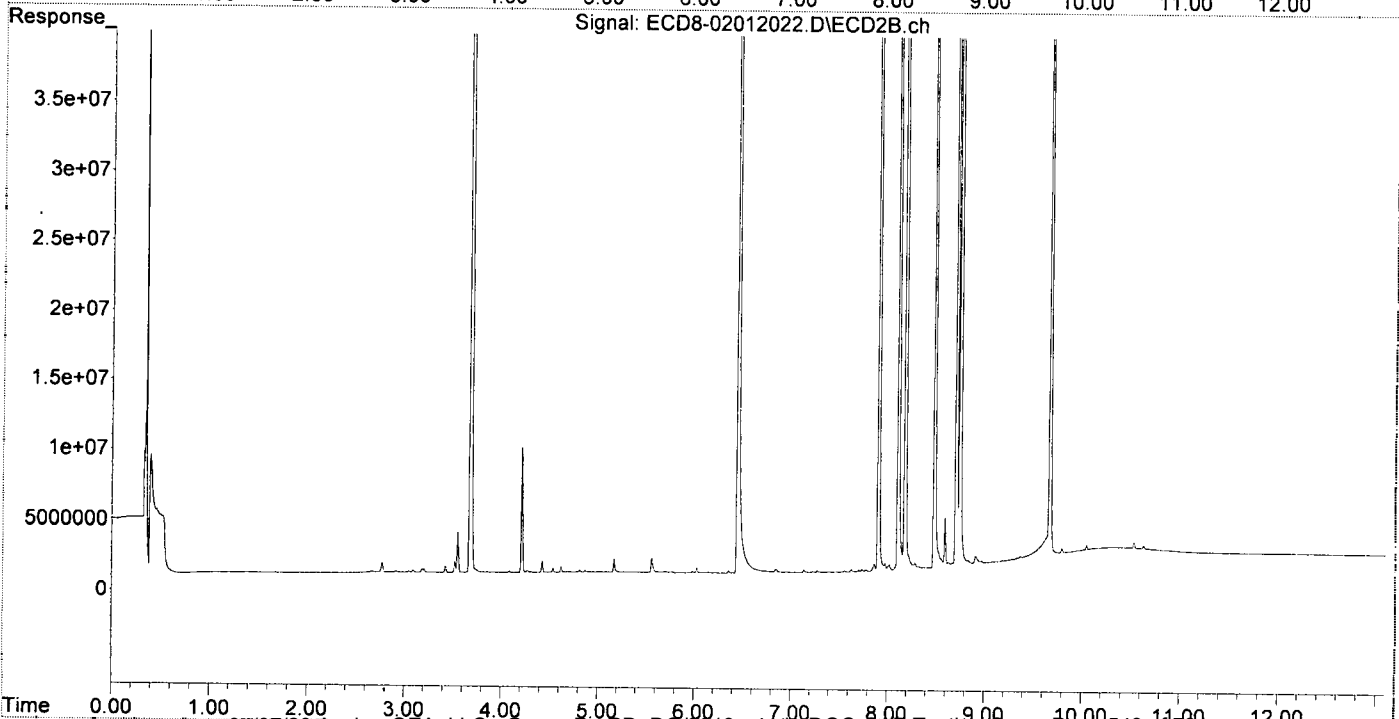
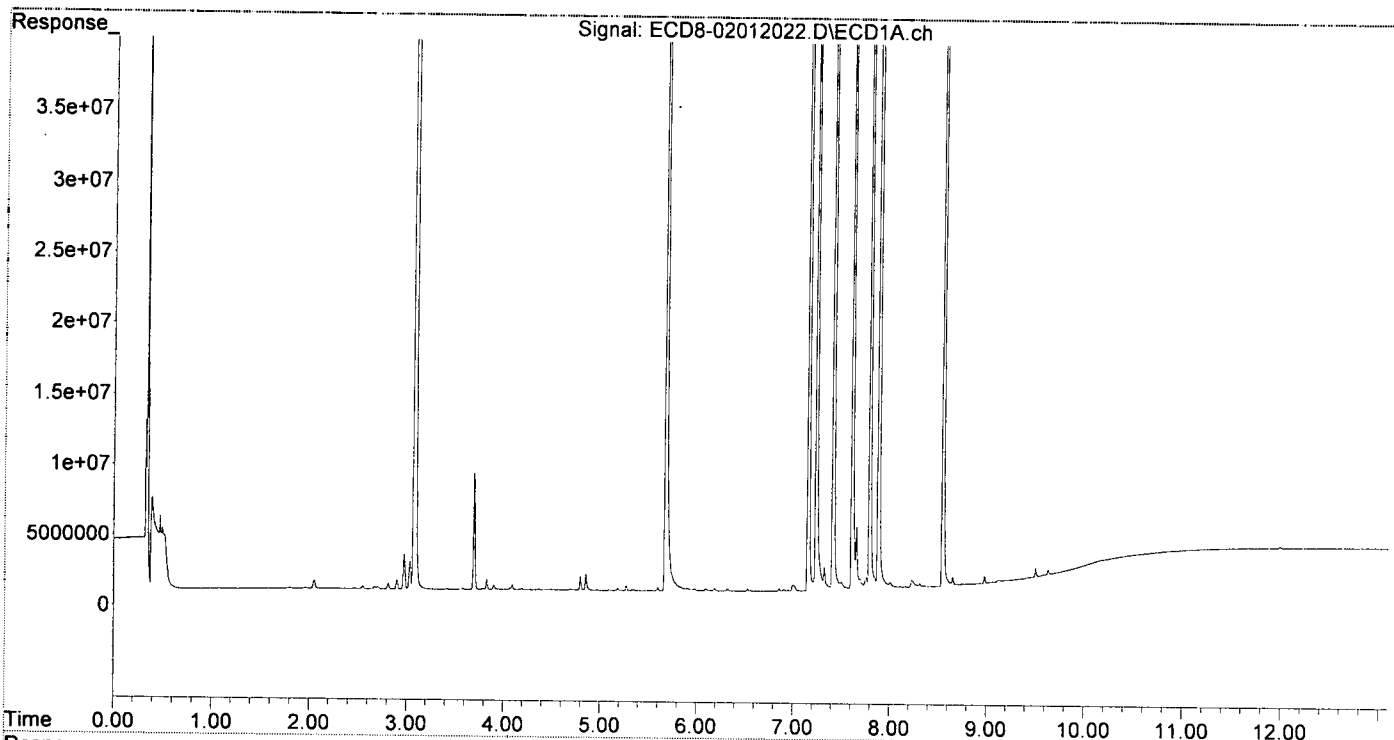
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.080	3.680	186.6E6	249.2E6	59.677	56.267
24) Hexachlor...	5.679	6.448	165.7E6	168.5E6	53.128	52.182
25) Oxychlordane	7.158	7.907	160.5E6	160.7E6	62.259	61.123
26) 2,4'-DDE	7.239	8.110	116.4E6	117.1E6	55.345	50.334
27) trans-Non...	7.415	8.182	177.0E6	179.2E6	60.066	59.244
28) 2,4'-DDD	7.611	8.484	93133543	99247235	59.533	61.540
29) 2,4'-DDT	7.793	8.708	117.1E6	122.8E6	63.857	65.773
30) cis-Nonac...	7.885	8.748	200.1E6	209.3E6	55.640	57.189
31) Mirex	8.551	9.674	117.1E6	104.8E6	56.532	53.655
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012022.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:12
 Operator : MJB
 Sample : 0B01012-CALG
 Misc : A19J408, 9-42 50 ppb
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 14:51:48 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:43:43 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012023.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:29
 Operator : MJB
 Sample : 0B01012-CALH
 Misc : A19J409, 9-42 100 ppb
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:19:50 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

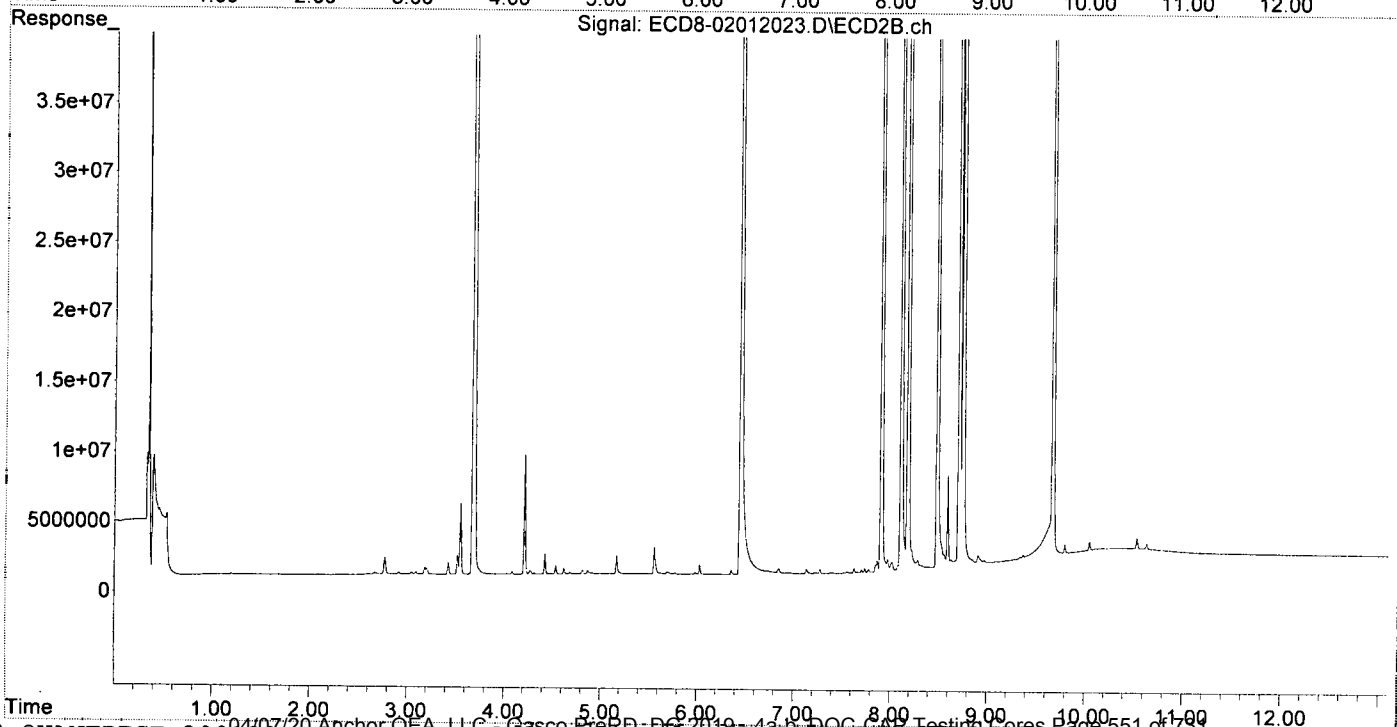
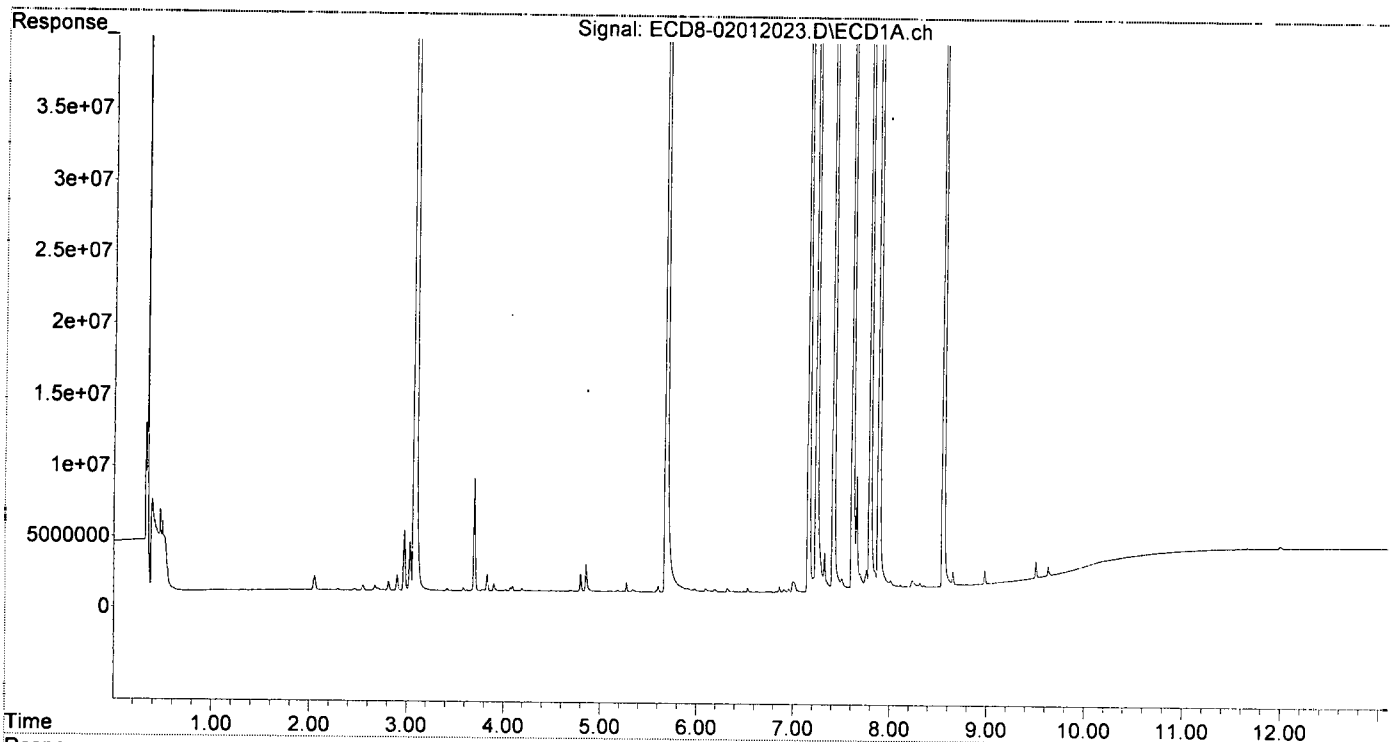
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.081	3.681	351.0E6	469.1E6	115.847	105.921
24) Hexachlor...	5.679	6.448	320.6E6	327.6E6	105.137	97.947
25) Oxychlordane	7.158	7.907	299.8E6	312.8E6	120.398	116.095
26) 2,4'-DDE	7.239	8.110	223.0E6	238.4E6	108.176	102.455
27) trans-Non...	7.415	8.181	344.0E6	367.6E6	118.318	117.687
28) 2,4'-DDD	7.611	8.484	188.9E6	195.5E6	122.173	115.717
29) 2,4'-DDT	7.794	8.708	229.9E6	253.6E6	127.470	128.024
30) cis-Nonac...	7.885	8.748	379.3E6	398.9E6	105.487	109.031
31) Mirex	8.551	9.674	232.7E6	204.2E6	112.646	101.092
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012023.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:29
 Operator : MJB
 Sample : 0B01012-CALH
 Misc : A19J409, 9-42 100 ppb
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:19:50 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 20:46
 Operator : MJB
 Sample : 0B01012-CALI
 Misc : A19K262, 9-42 200 ppb
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:20:23 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

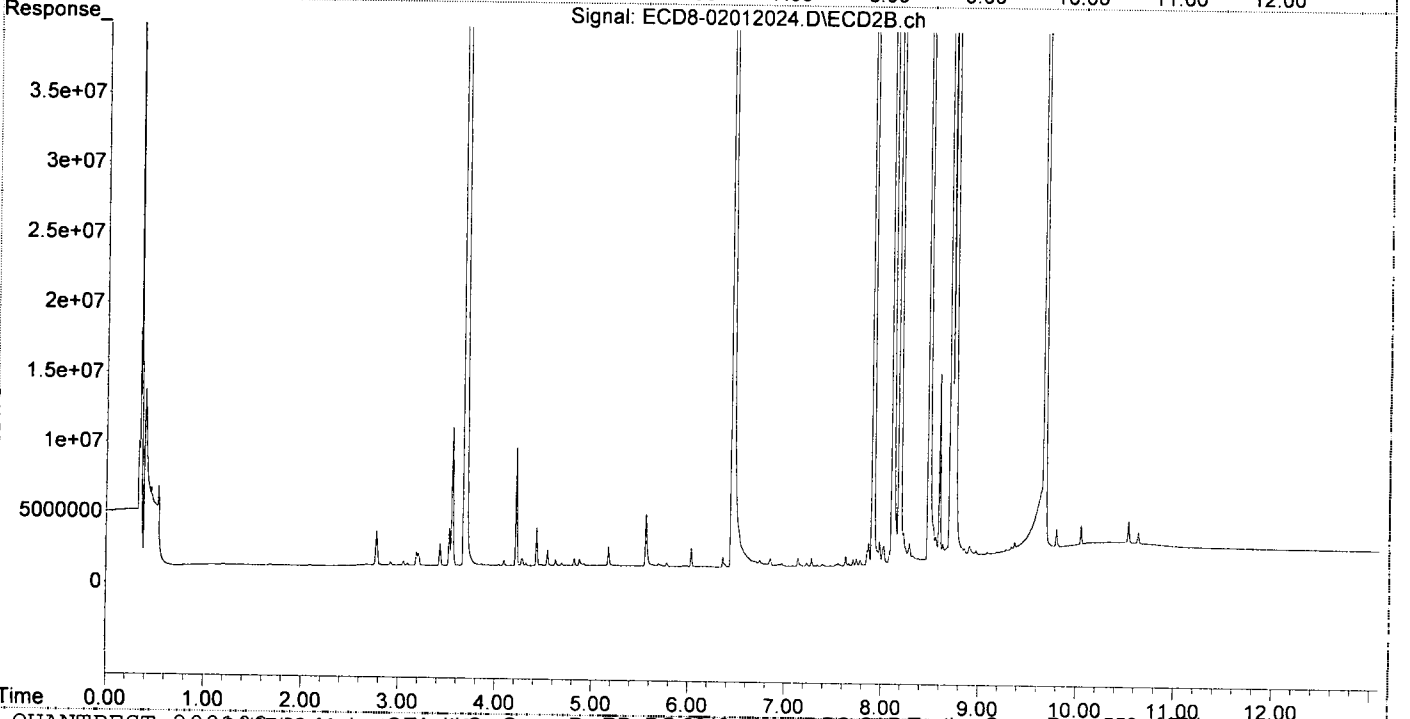
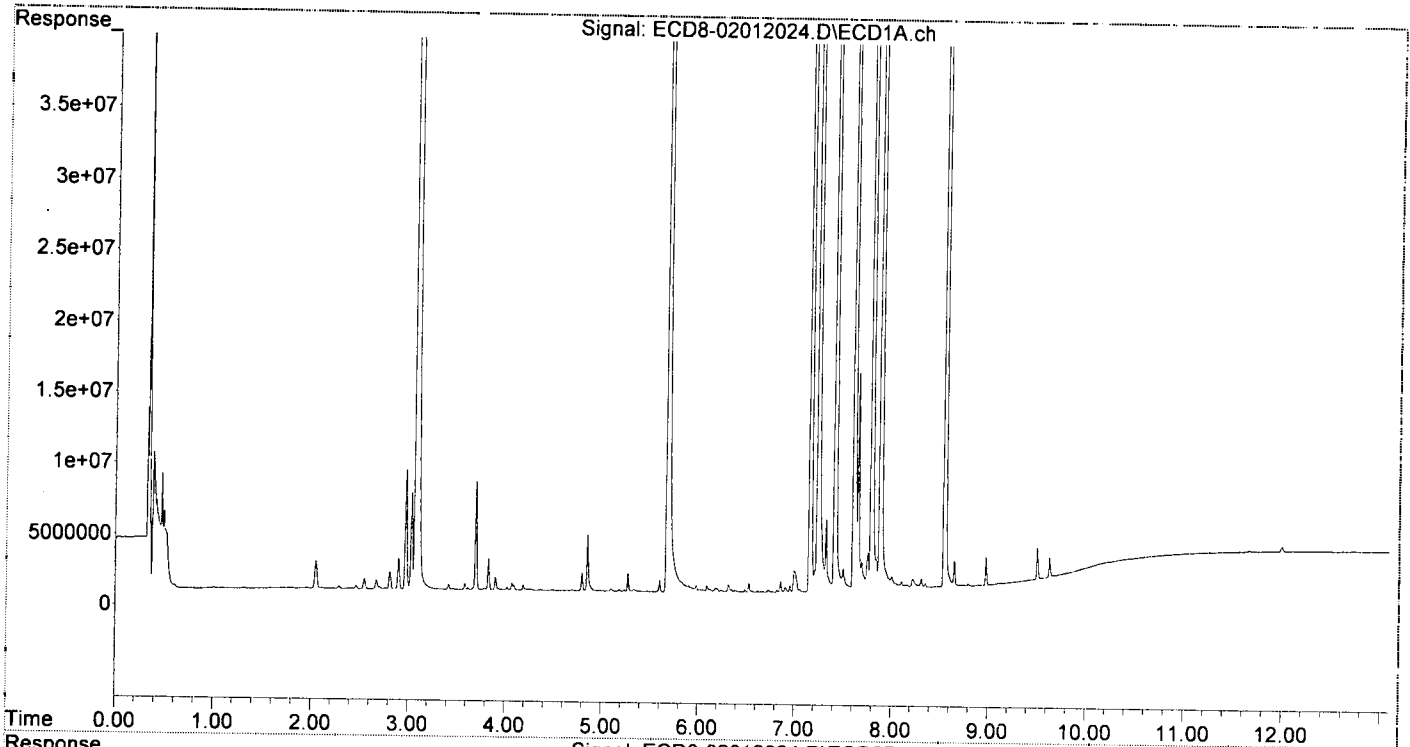
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	3.081	3.681	752.3E6	1068.1E6	271.631	241.188
24) Hexachlor...	5.679	6.449	700.2E6	782.5E6	243.921	214.523
25) Oxychlordane	7.157	7.907	643.7E6	730.3E6	286.187	254.848
26) 2,4'-DDE	7.238	8.109	482.9E6	534.7E6	246.236	229.746
27) trans-Non...	7.415	8.181	728.0E6	810.4E6	258.179	242.594
28) 2,4'-DDD	7.610	8.483	416.9E6	469.3E6	276.948	249.082
29) 2,4'-DDT	7.792	8.707	502.1E6	583.6E6	290.241	261.709
30) cis-Nonac...	7.884	8.747	835.6E6	936.1E6	232.372	255.838
31) Mirex	8.550	9.673	487.2E6	479.6E6	236.360	218.311
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 20:46
Operator : MJB
Sample : 0B01012-CALI
Misc : A19K262, 9-42 200 ppb
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:20:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:36
 Operator : MJB
 Sample : 0B01012-CALJ
 Misc : A20B004, CHLOR 10 ppb
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:22:42 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:32 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

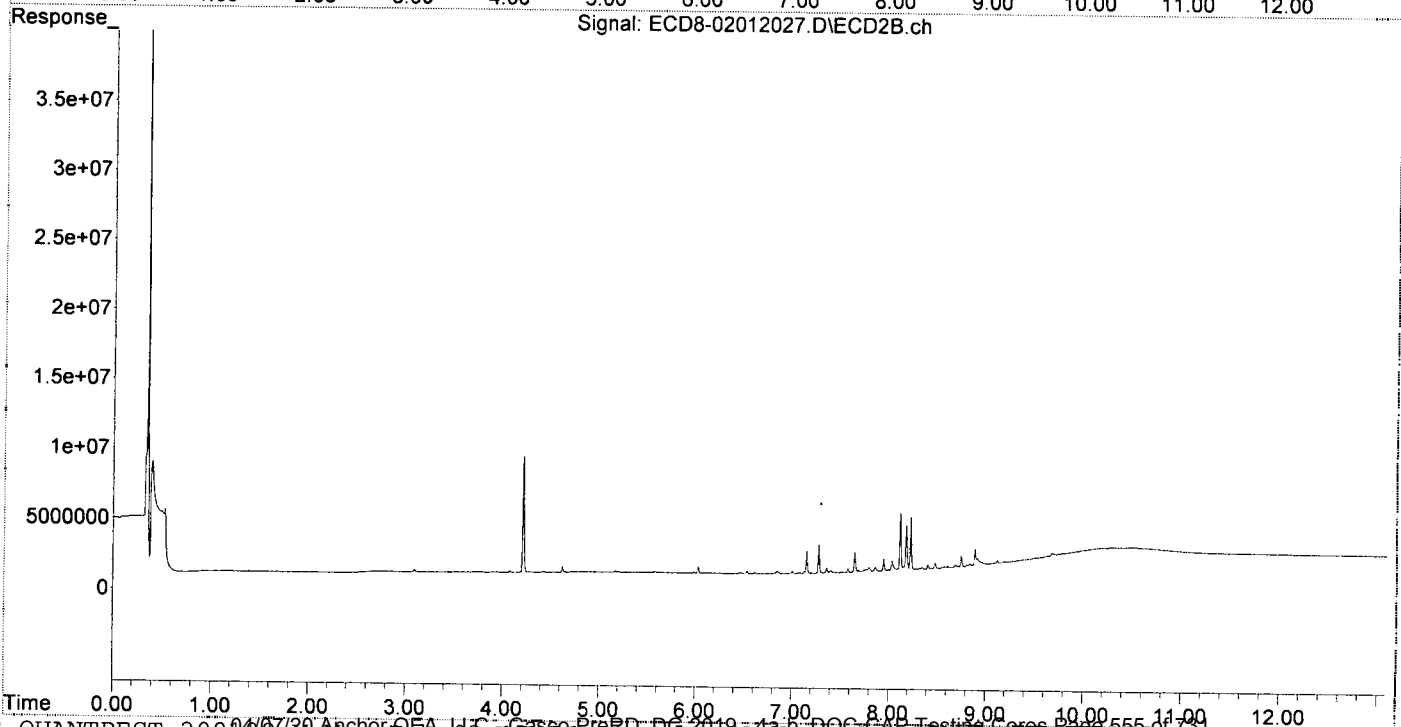
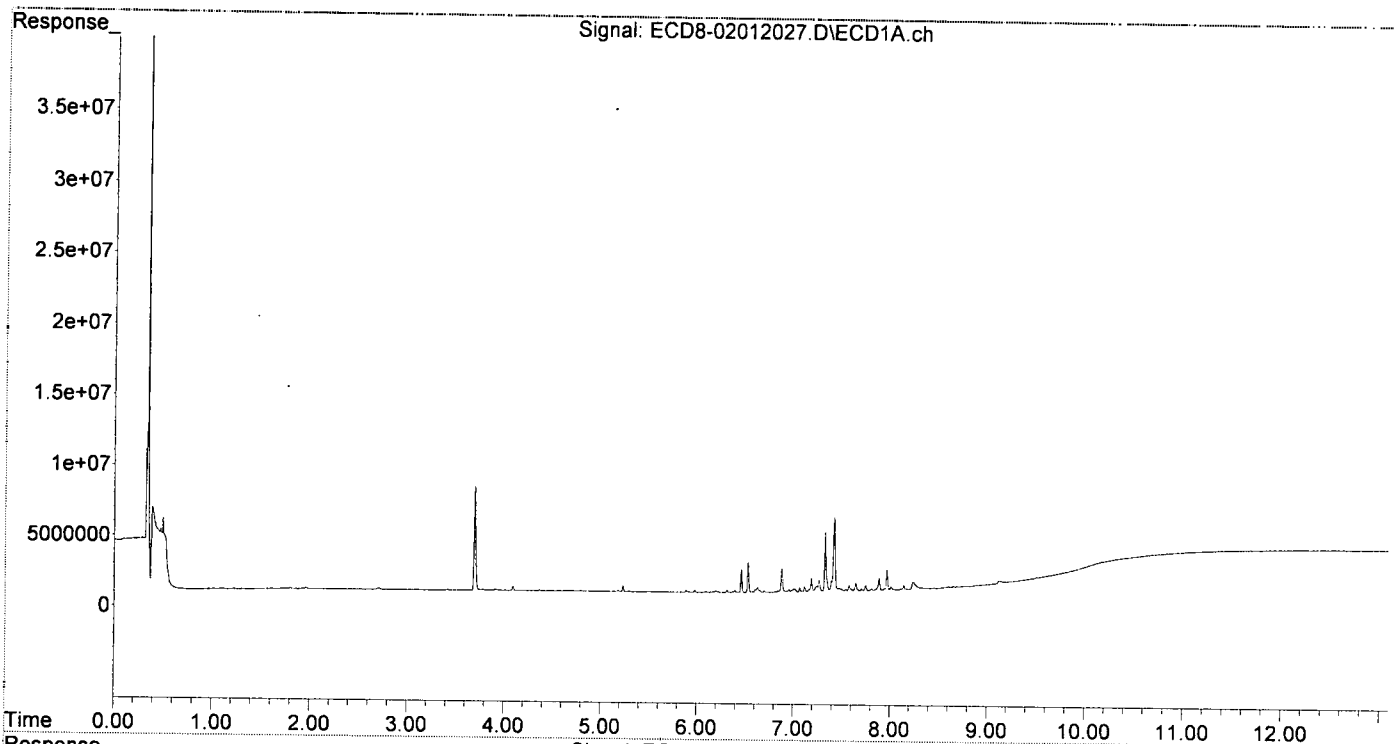
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.328	8.118	4222162	4084683	11.307	9.494
33) Chlordane...	7.421	8.226	5231315	3718290	11.424	10.313
34) Chlordane...	7.968	8.889	1477991	1246903	12.619	11.399
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:36
 Operator : MJB
 Sample : 0B01012-CALJ
 Misc : A20B004, CHLOR 10 ppb
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:22:42 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:32 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012028.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:53
 Operator : MJB
 Sample : 0B01012-CALK
 Misc : A19K307, CHLOR 50 ppb
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:23:18 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

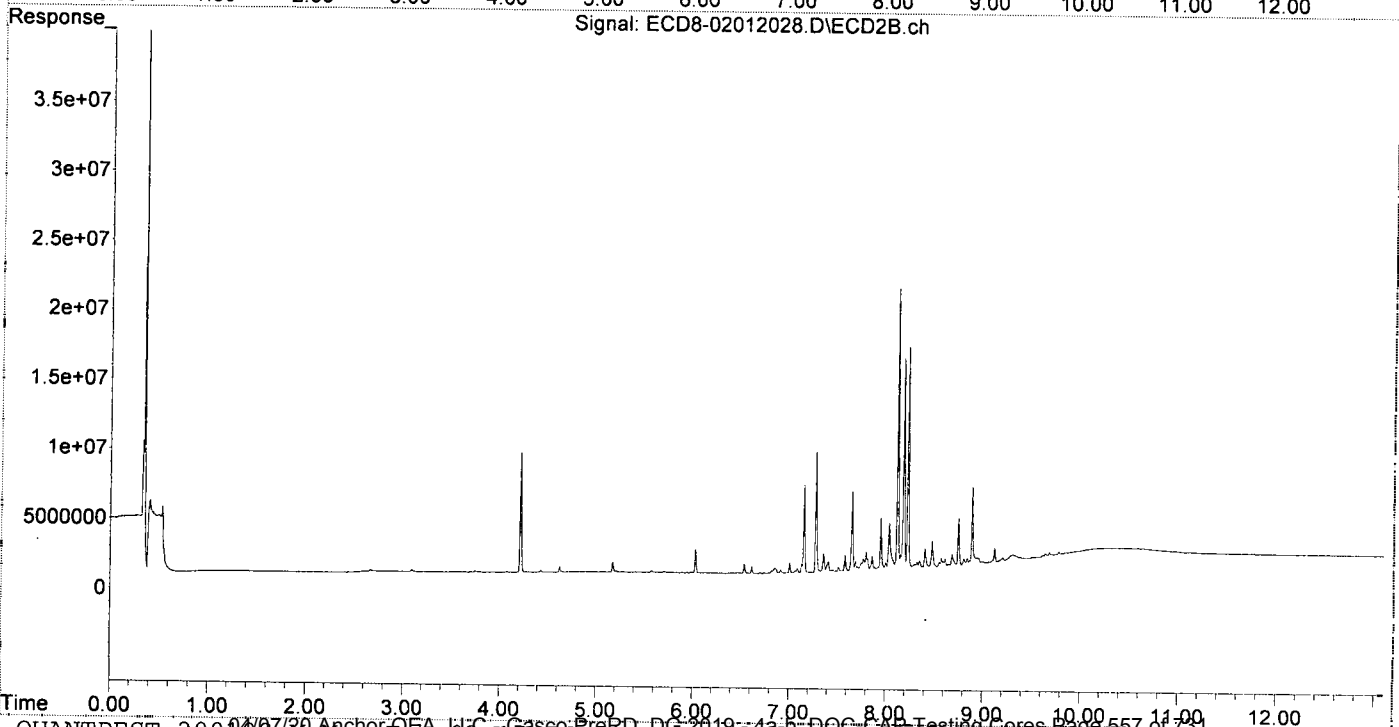
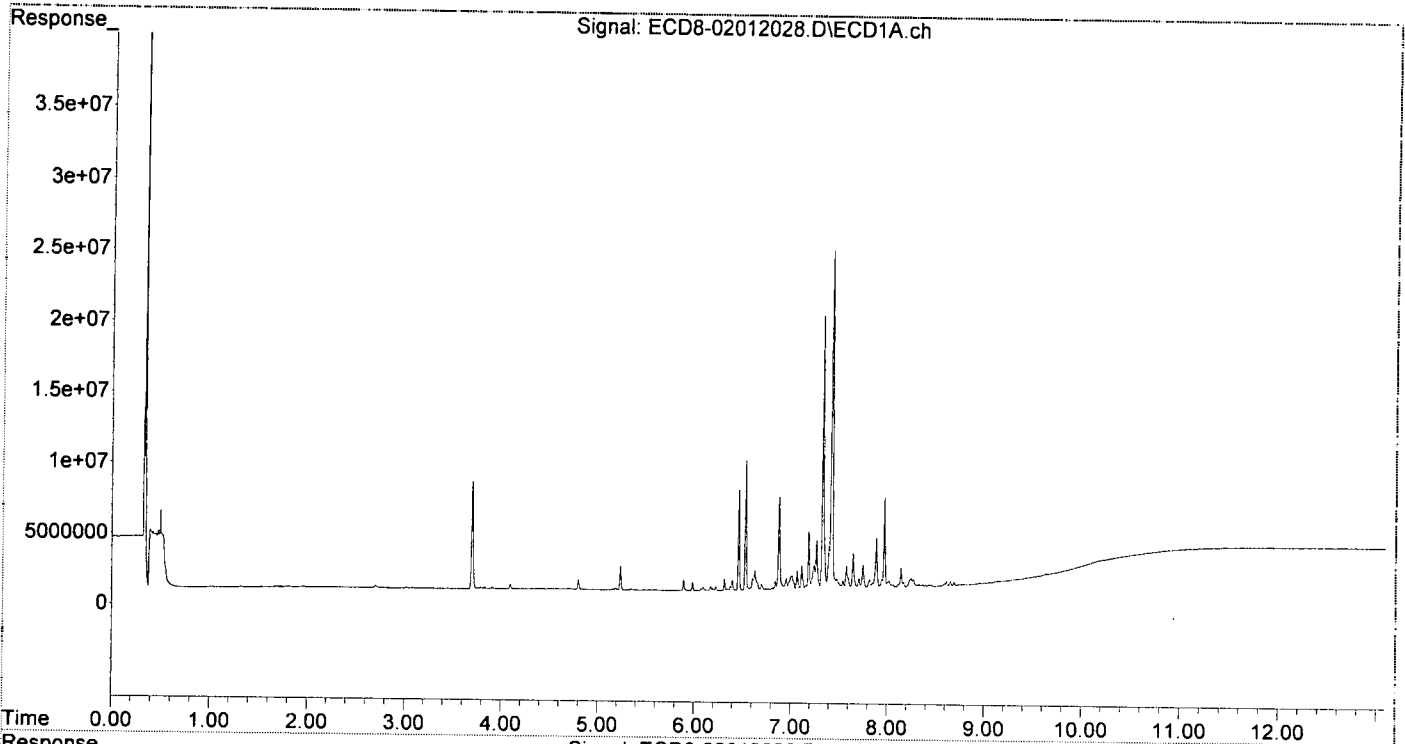
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.327	8.119	19331862	20134199	51.772	46.798
33) Chlordane...	7.421	8.226	23846059	15910016	52.075	44.127
34) Chlordane...	7.967	8.889	6361865	5712561	54.318	52.226
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012028.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 21:53
 Operator : MJB
 Sample : 0B01012-CALK
 Misc : A19K307, CHLOR 50 ppb
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:23:18 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012029.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 22:10
 Operator : MJB
 Sample : 0B01012-CALL
 Misc : A19K308, CHLOR 100 ppb
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:23:48 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualeCD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation

*MJB
2/3/20*

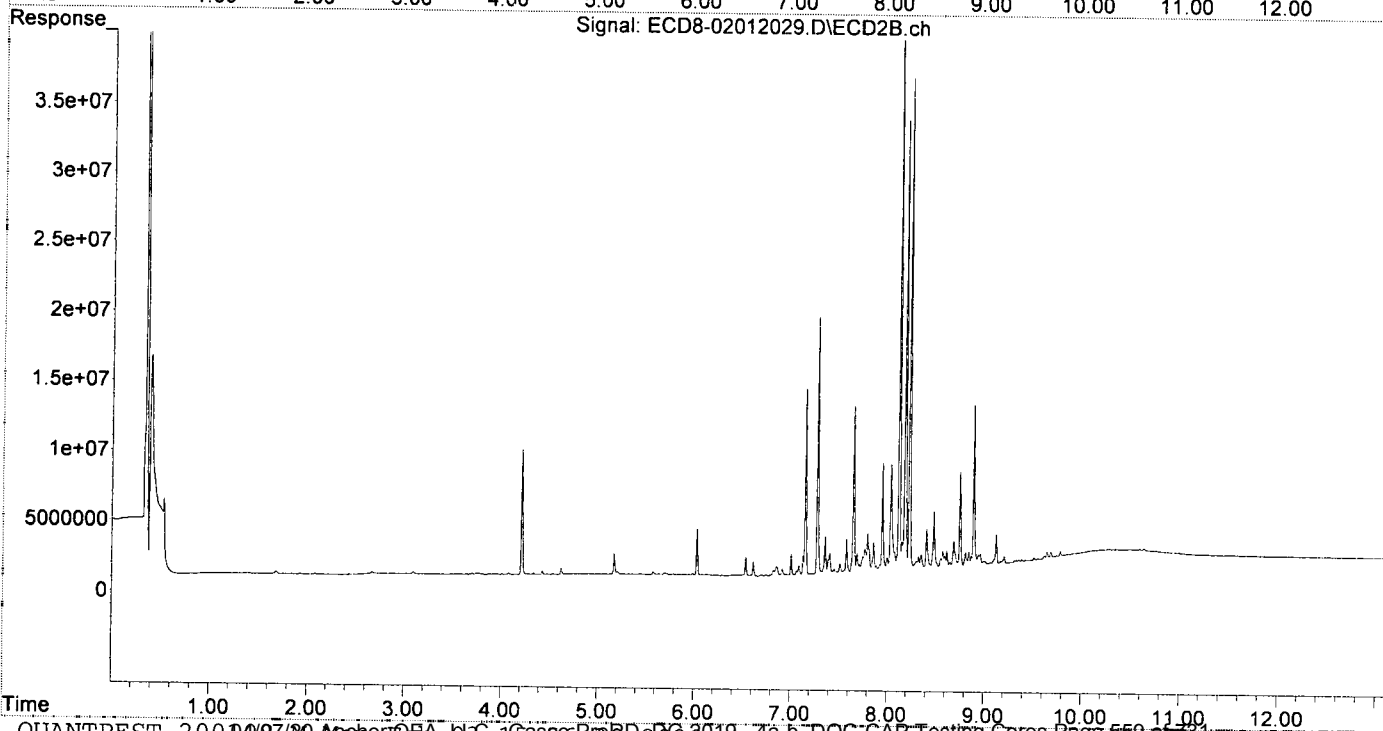
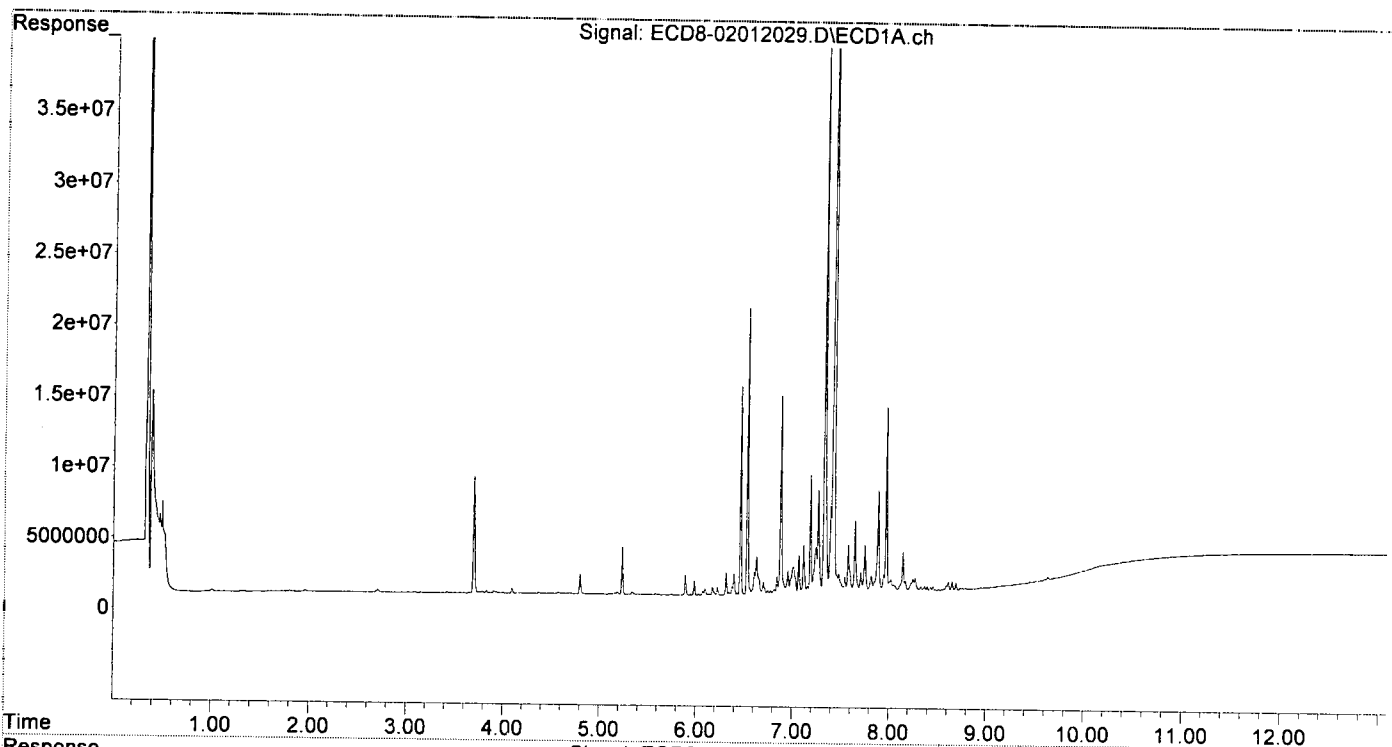
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.326	8.118	40982018	43332192	109.752	100.718
33) Chlordane...	7.420	8.225	50068645	35221978	109.340	97.689
34) Chlordane...	7.968	8.889	13031823	11647984	111.267	106.489
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:10
Operator : MJB
Sample : 0B01012-CALL
Misc : A19K308, CHLOR 100 ppb
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:23:48 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012030.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 22:27
 Operator : MJB
 Sample : 0B01012-CALM
 Misc : A19K309, CHLOR 200 ppb
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:24:19 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

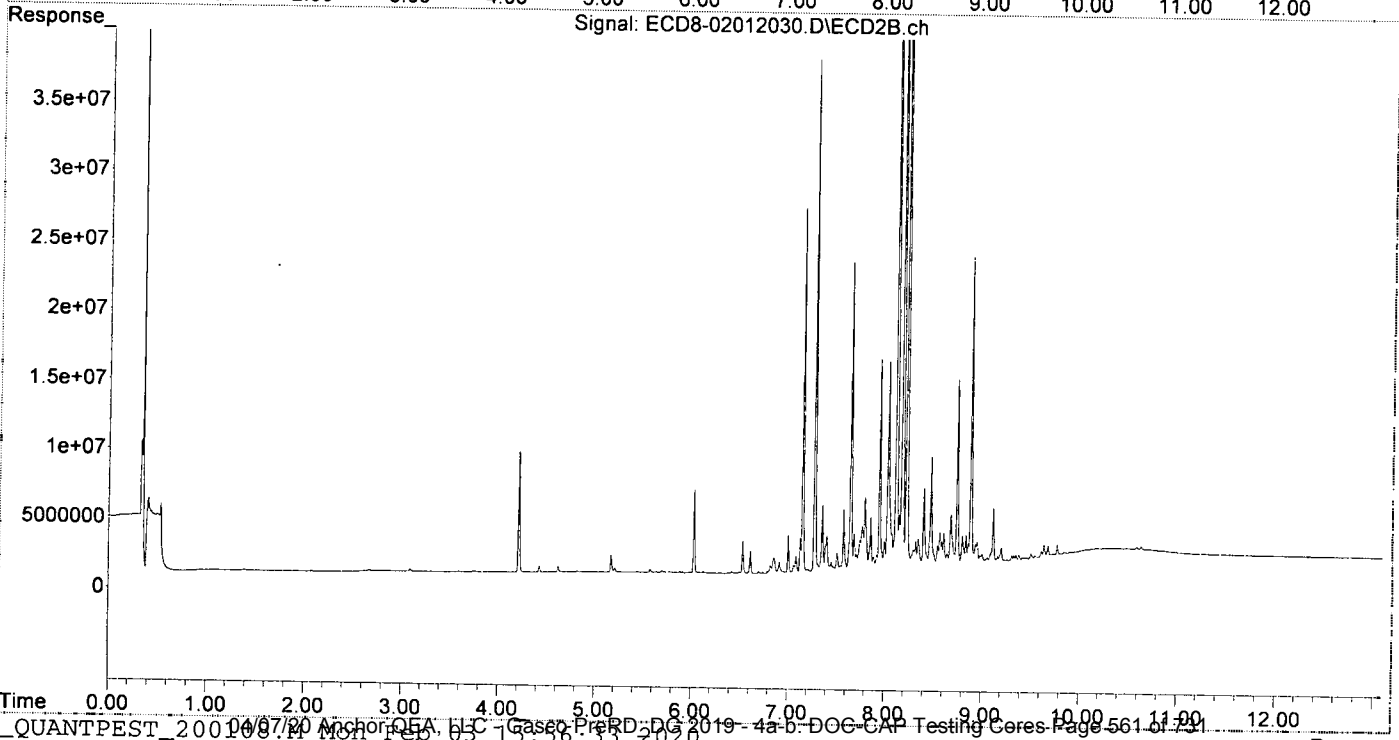
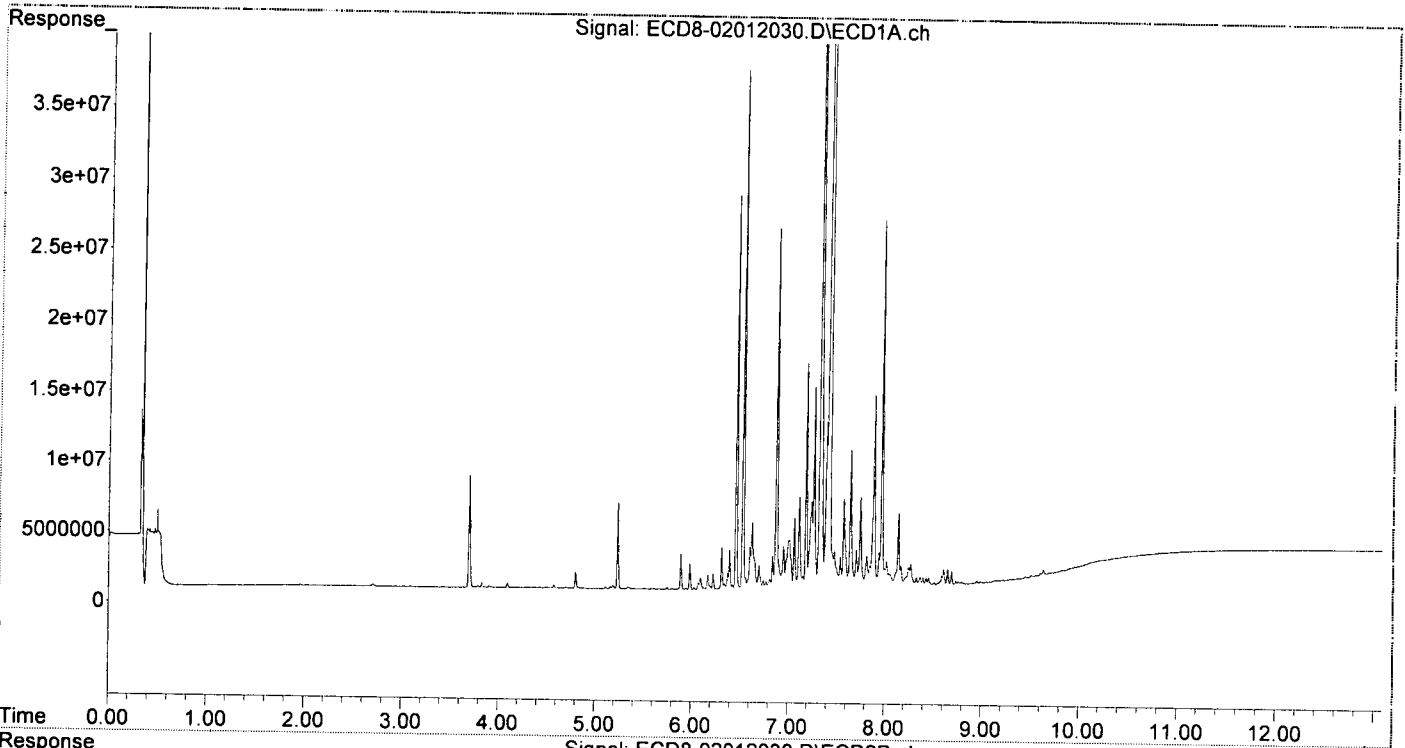
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.326	8.118	79833983	83675101	213.799	194.488
33) Chlordane...	7.420	8.225	97470804	70682705	212.857	196.040
34) Chlordane...	7.967	8.889	25873455	22148725	220.911	202.489
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:27
Operator : MJB
Sample : 0B01012-CALM
Misc : A19K309, CHLOR 200 ppb
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:19 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012031.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 22:43
 Operator : MJB
 Sample : 0B01012-CALN
 Misc : A19K310, CHLOR 500 ppb
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:21:54 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 14:52:24 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

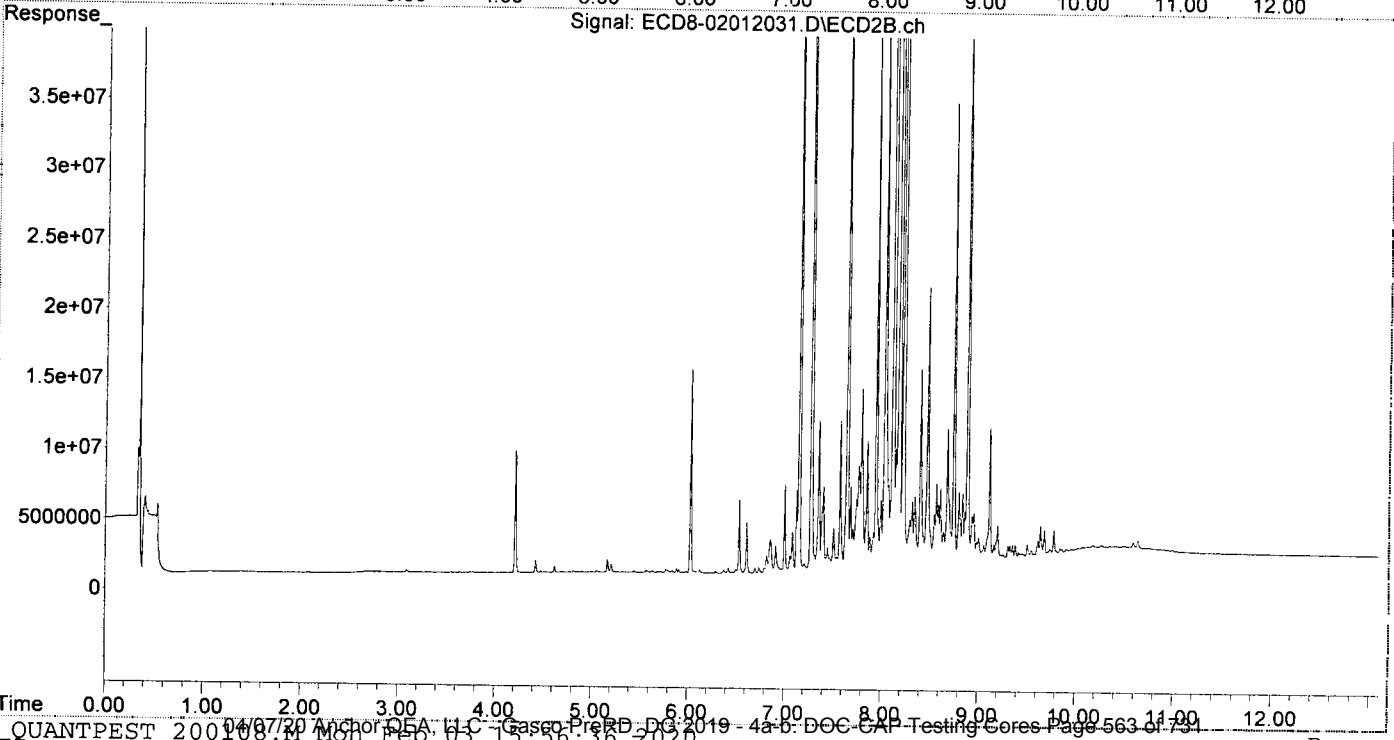
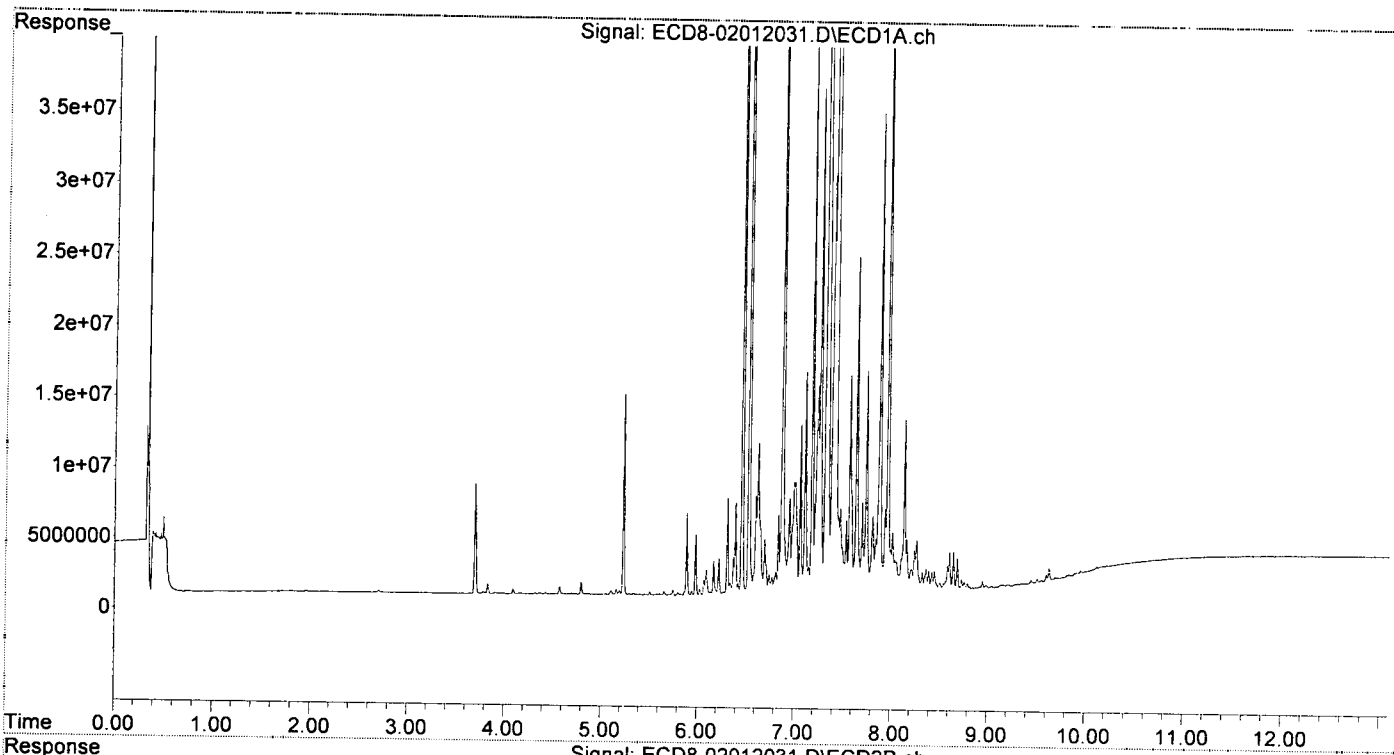
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.326	8.117	194.2E6	218.0E6	520.166	506.642
33) Chlordane...	7.419	8.225	234.2E6	182.0E6	511.405	504.702
34) Chlordane...	7.966	8.889	61785001	58496819	527.529	534.792
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 22:43
Operator : MJB
Sample : 0B01012-CALN
Misc : A19K310, CHLOR 500 ppb
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:21:54 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 14:52:24 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012032.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 23:00
 Operator : MJB
 Sample : 0B01012-CALO
 Misc : A19K311, CHLOR 1000 ppb
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:24:53 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

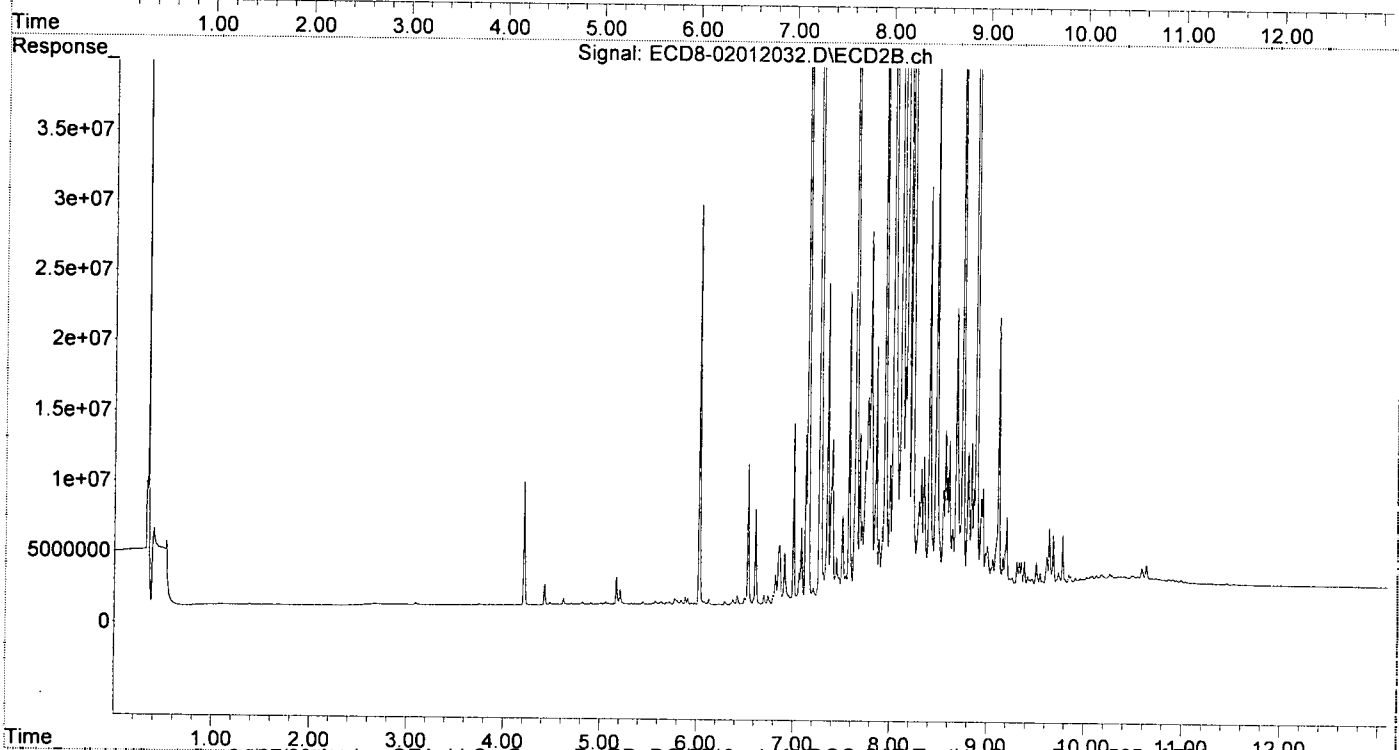
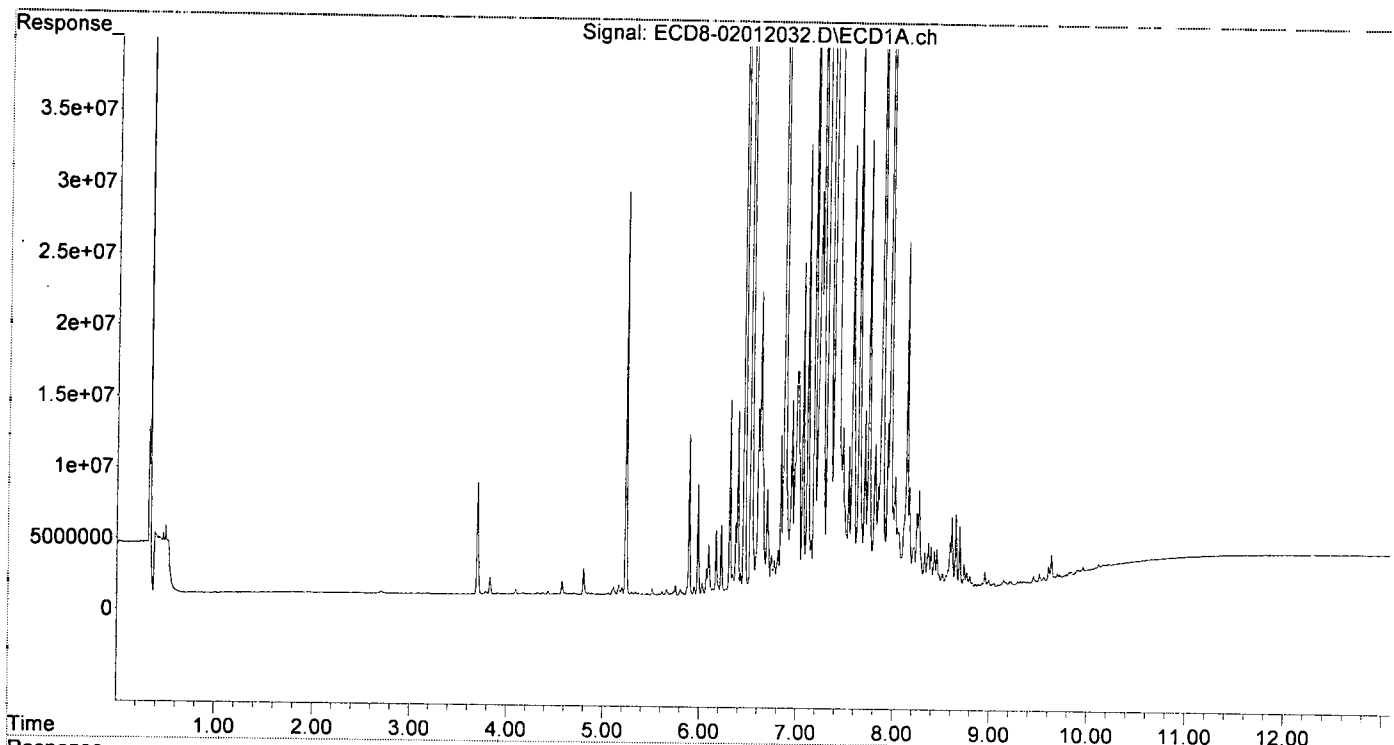
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.325	8.118	407.1E6	461.1E6	1090.148	1071.785
33) Chlordane...	7.419	8.226	468.0E6	384.8E6	1021.927	1067.266
34) Chlordane...	7.966	8.890	126.5E6	118.8E6	1080.265	1086.515
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:00
Operator : MJB
Sample : 0B01012-CALO
Misc : A19K311, CHLOR 1000 ppb
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:24:53 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012033.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 1 Feb 2020 23:17
 Operator : MJB
 Sample : 0B01012-CALP
 Misc : A19K306, CHLOR 2000 ppb
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:25:23 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

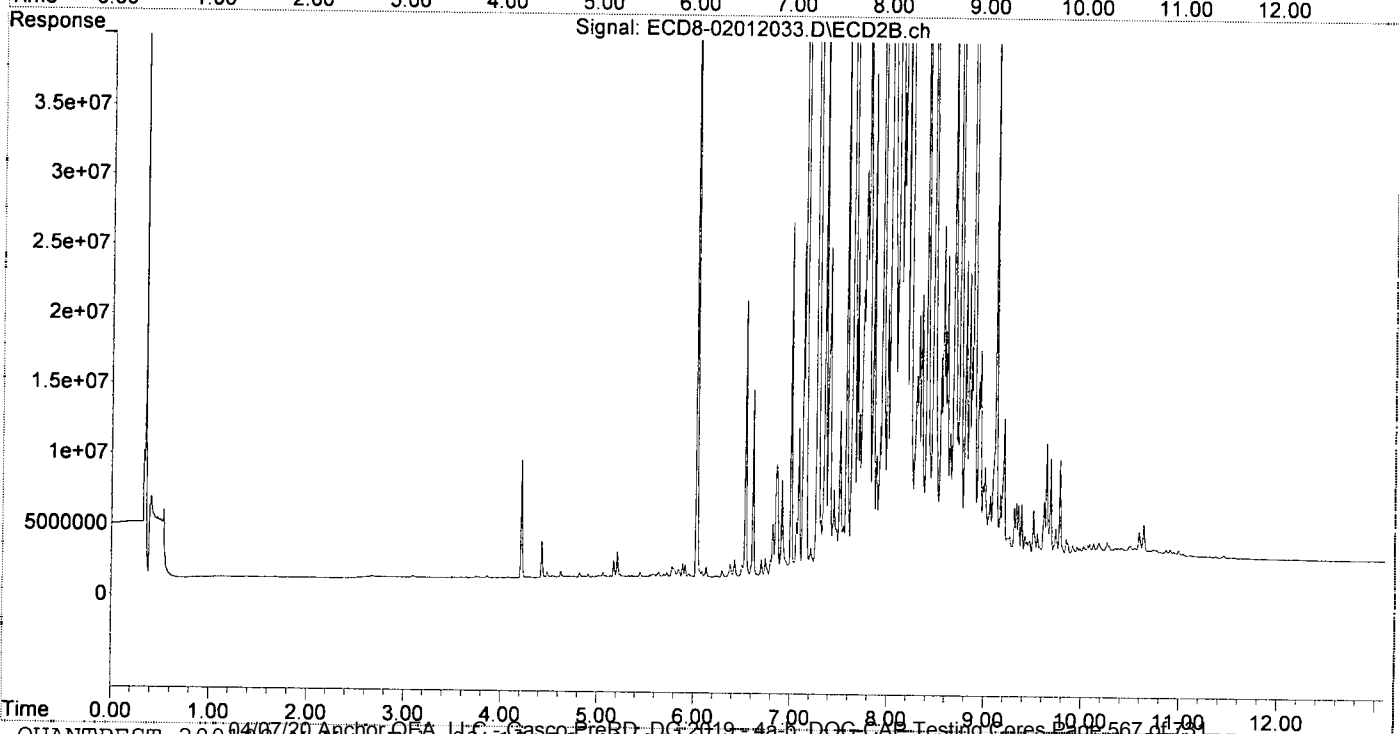
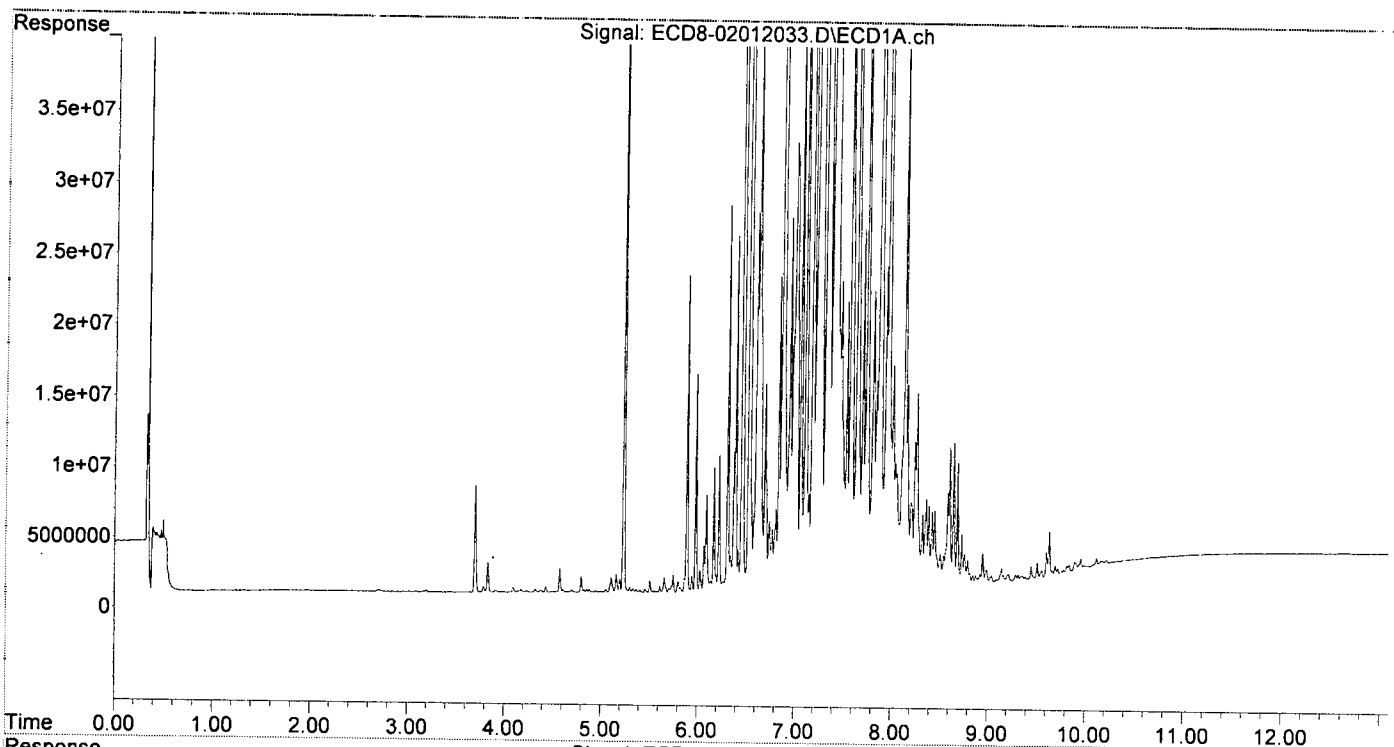
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	7.325	8.118	780.0E6	962.8E6	2088.768	2237.923
33) Chlordane...	7.420	8.225	959.8E6	801.0E6	2095.944	2221.464
34) Chlordane...	7.966	8.889	253.1E6	258.6E6	2161.308	2363.887
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2020 23:17
Operator : MJB
Sample : 0B01012-CALP
Misc : A19K306, CHLOR 2000 ppb
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:25:23 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012036.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:08
 Operator : MJB
 Sample : 0B01012-CALQ
 Misc : A20B005, TOX 10 ppb
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:27:58 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

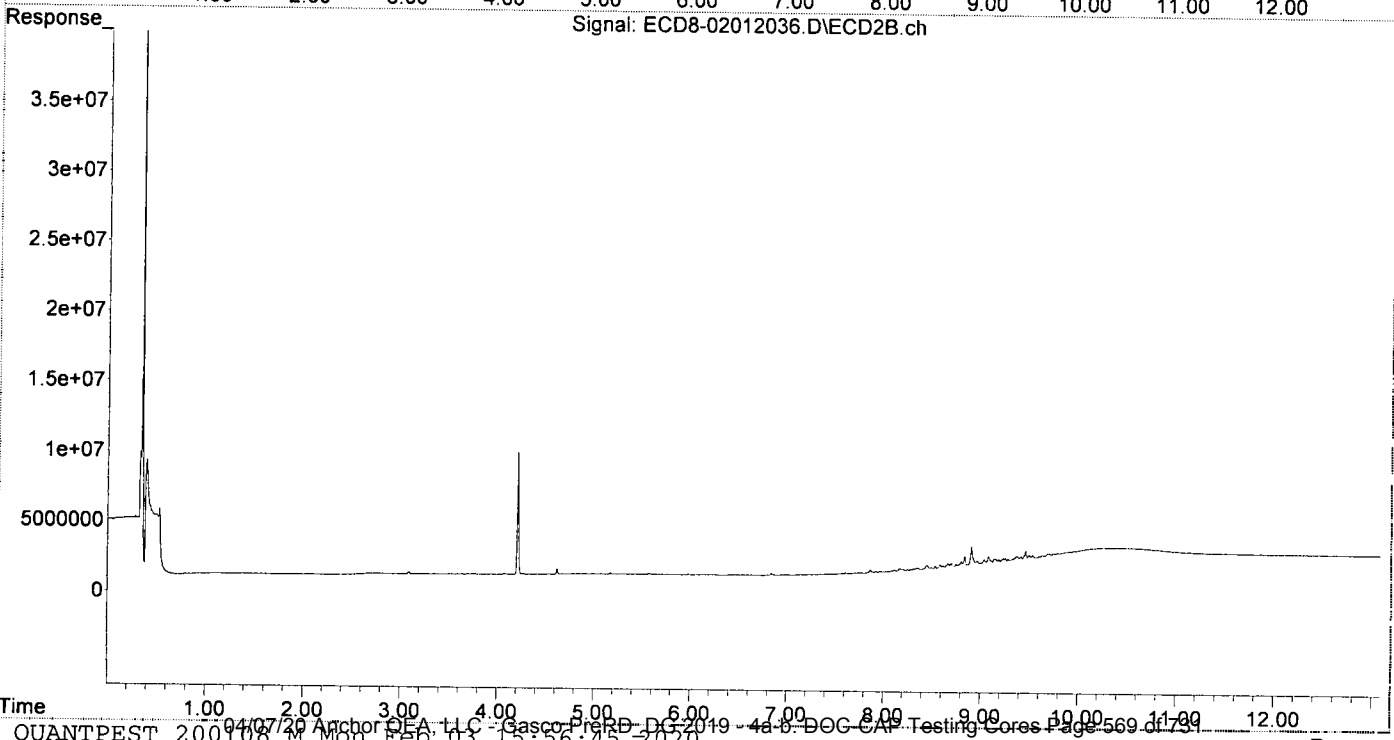
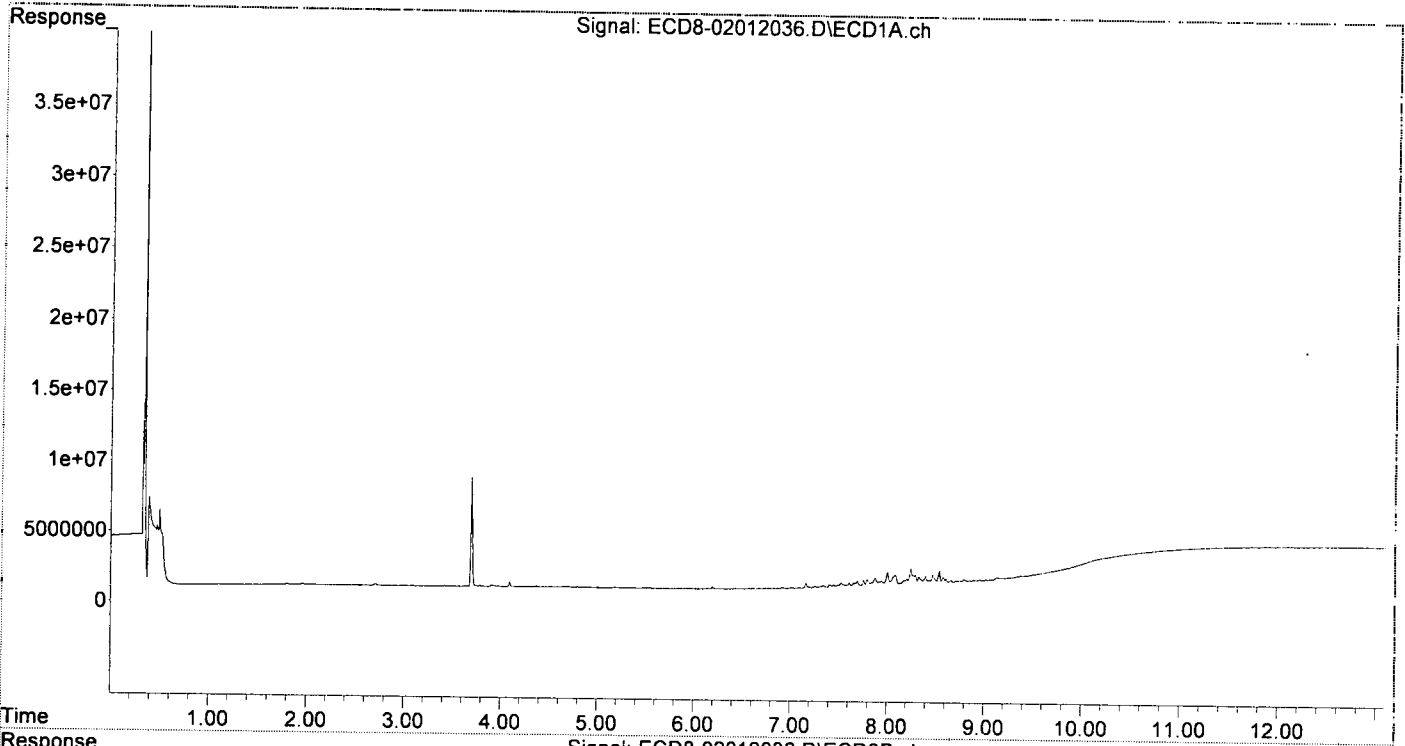
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.402	8.455	169507	273928	11.912	7.110 #
37) Toxaphene...	7.694	8.803	357259	364064	10.115	7.494 #
38) Toxaphene...	8.006	8.838	923034	694351	9.582	8.052
39) Toxaphene...	8.246	8.907	1100625	1372328	18.534	13.315 #
40) Toxaphene...	8.472	9.081	585949	574323	12.388	8.643 #
41) Toxaphene...	8.541	9.463	844549	749407	12.729	12.944
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:08
Operator : MJB
Sample : 0B01012-CALQ
Misc : A20B005, TOX 10 ppb
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:58 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:24
 Operator : MJB
 Sample : 0B01012-CALR
 Misc : A19J417, TOX 50 ppb
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:28:39 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

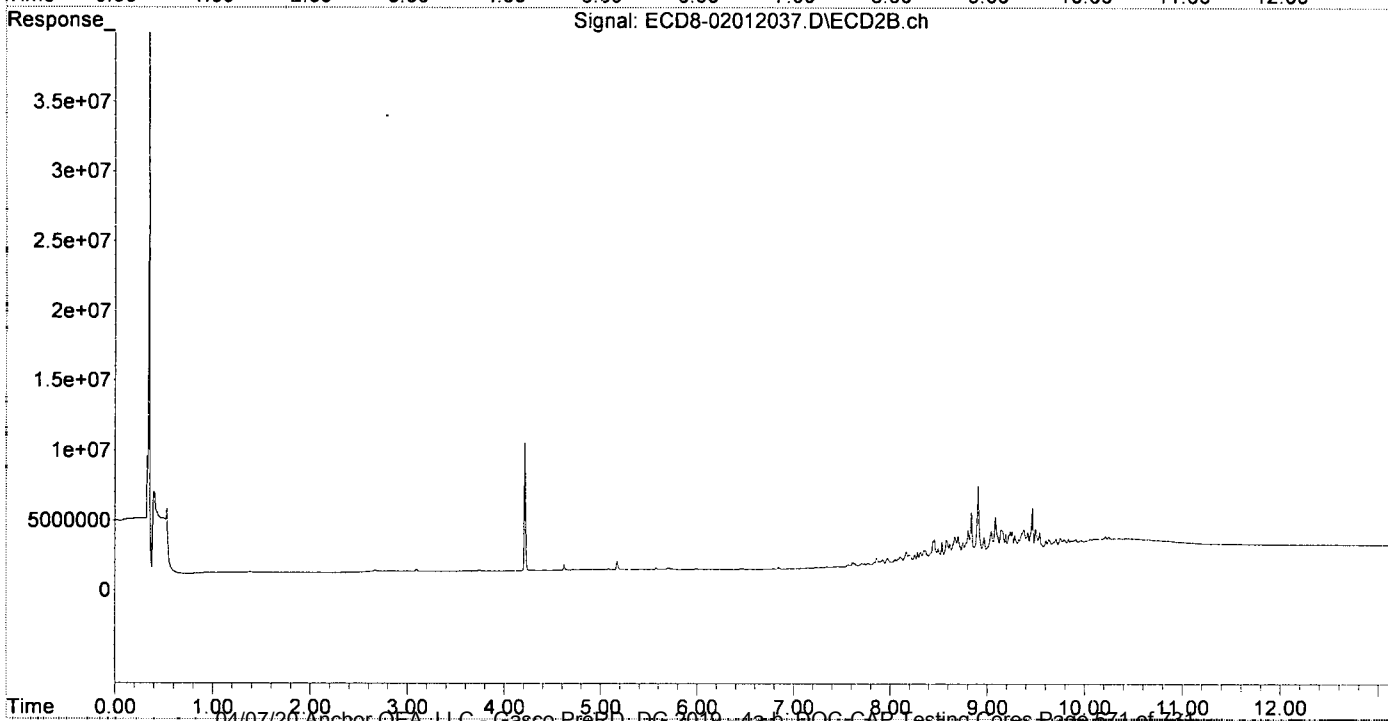
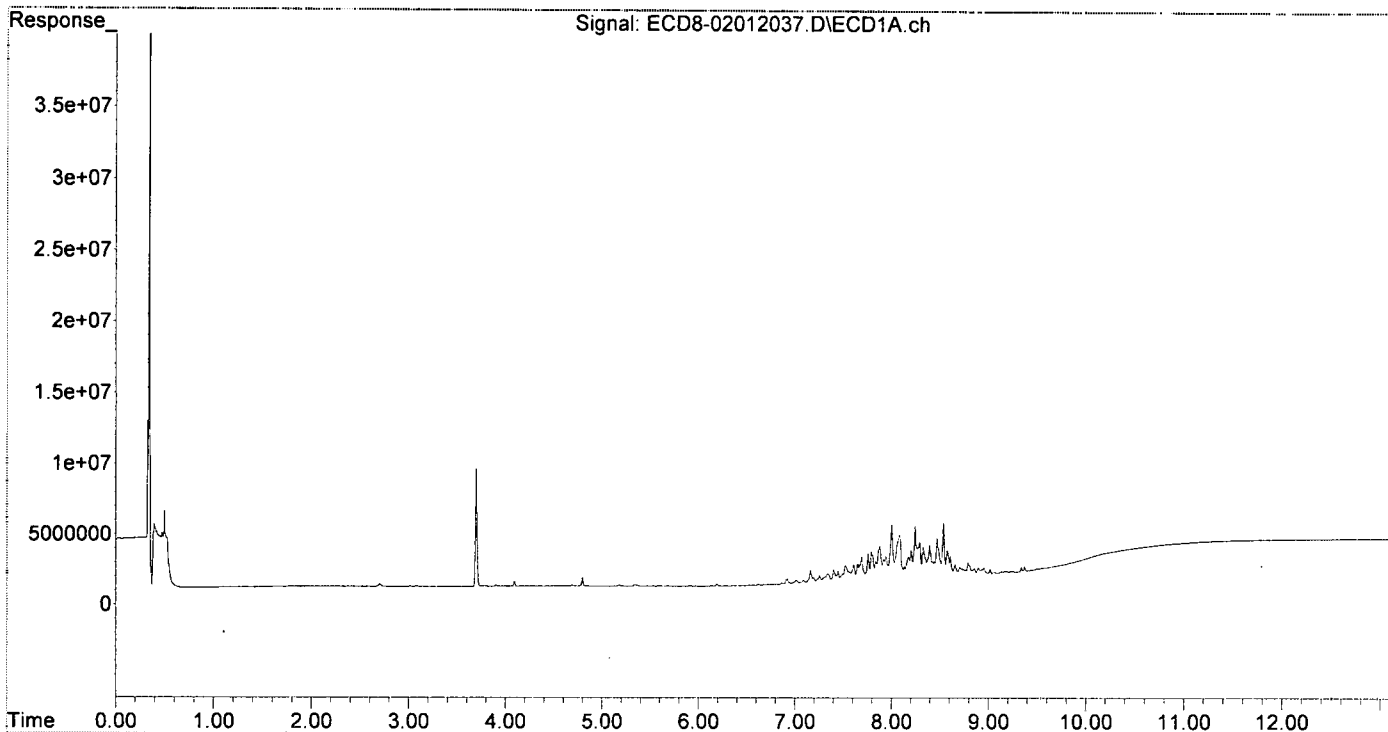
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.400	8.455	862137	1457893	60.587	50.306
37) Toxaphene...	7.693	8.804	1682151	1899624	55.373	50.936
38) Toxaphene...	8.004	8.839	3882297	3122967	59.396	53.665
39) Toxaphene...	8.246	8.907	3672237	5032751	61.839	57.160
40) Toxaphene...	8.473	9.083	2698036	2697421	57.043	51.780
41) Toxaphene...	8.539	9.464	3790810	3159313	57.136	54.567
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:24
 Operator : MJB
 Sample : 0B01012-CALR
 Misc : A19J417, TOX 50 ppb
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:28:39 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:41
 Operator : MJB
 Sample : 0B01012-CALS
 Misc : A19J418, TOX 100 ppb
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:29:16 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation

*MJB
2/3/20*

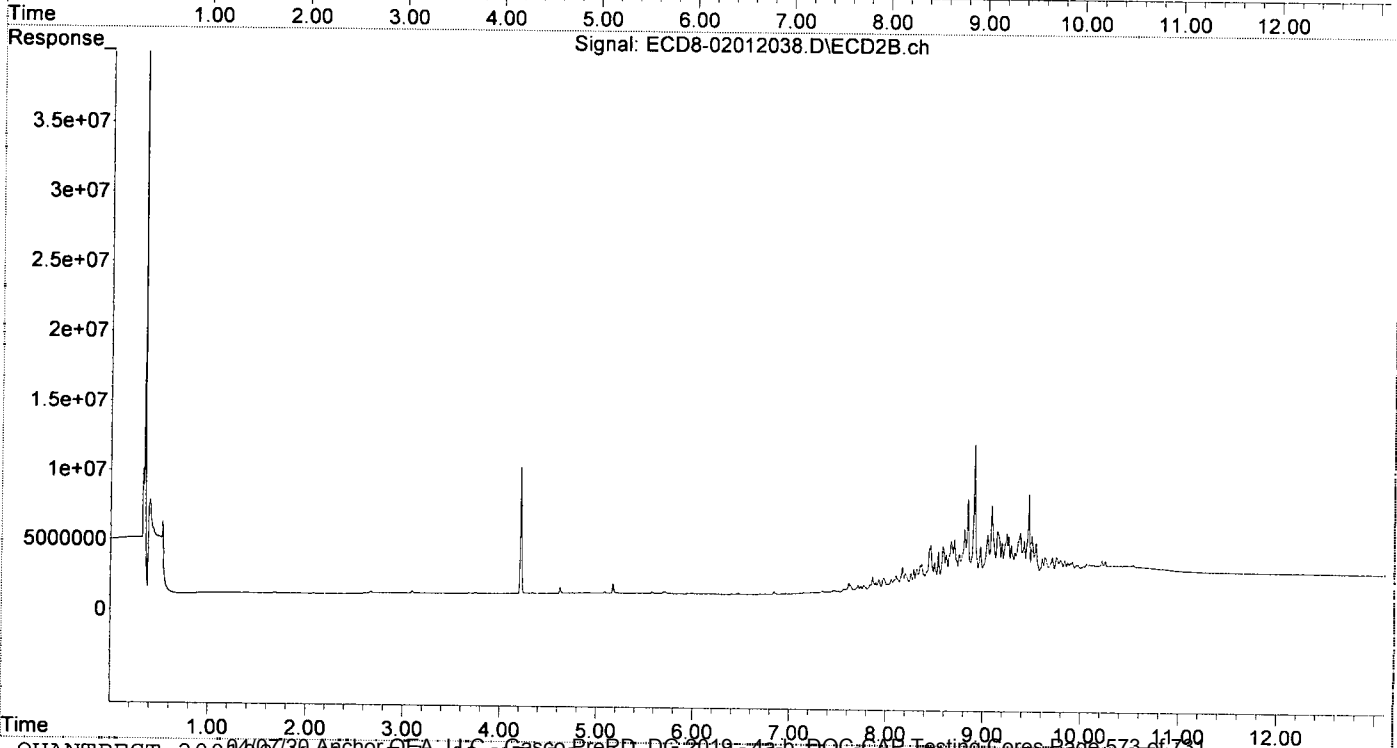
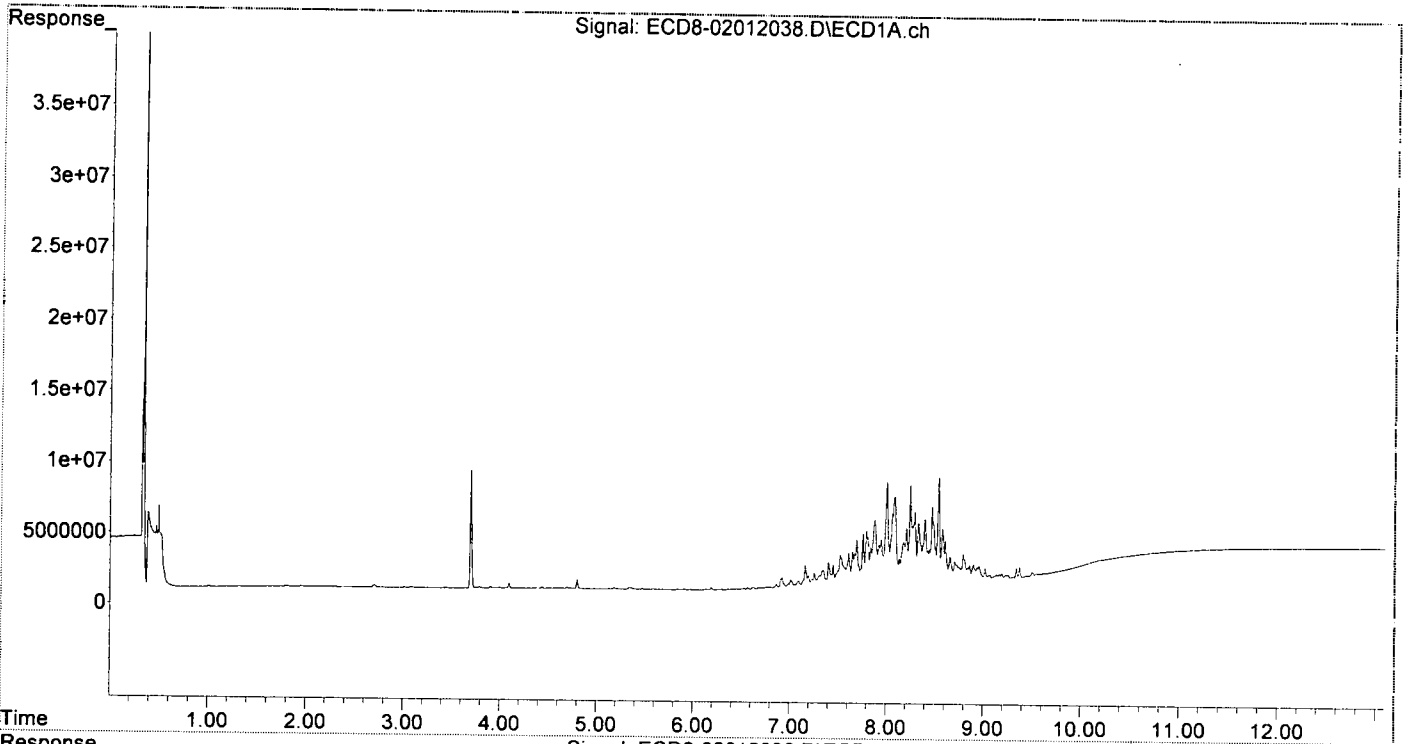
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.400	8.455	1687426	3039636	118.585	108.365
37) Toxaphene...	7.693	8.803	3171817	4024499	106.680	111.161
38) Toxaphene...	8.004	8.838	7108085	6231660	113.854	111.998
39) Toxaphene...	8.245	8.906	6856793	10075815	115.465	117.279
40) Toxaphene...	8.472	9.083	5268375	5637073	111.387	111.355
41) Toxaphene...	8.539	9.463	7293127	6347466	108.923	109.632
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:41
 Operator : MJB
 Sample : 0B01012-CALS
 Misc : A19J418, TOX 100 ppb
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:29:16 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012039.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 00:58
 Operator : MJB
 Sample : 0B01012-CALT
 Misc : A19J419, TOX 200 ppb
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:29:52 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation

*MJB
2/3/20*

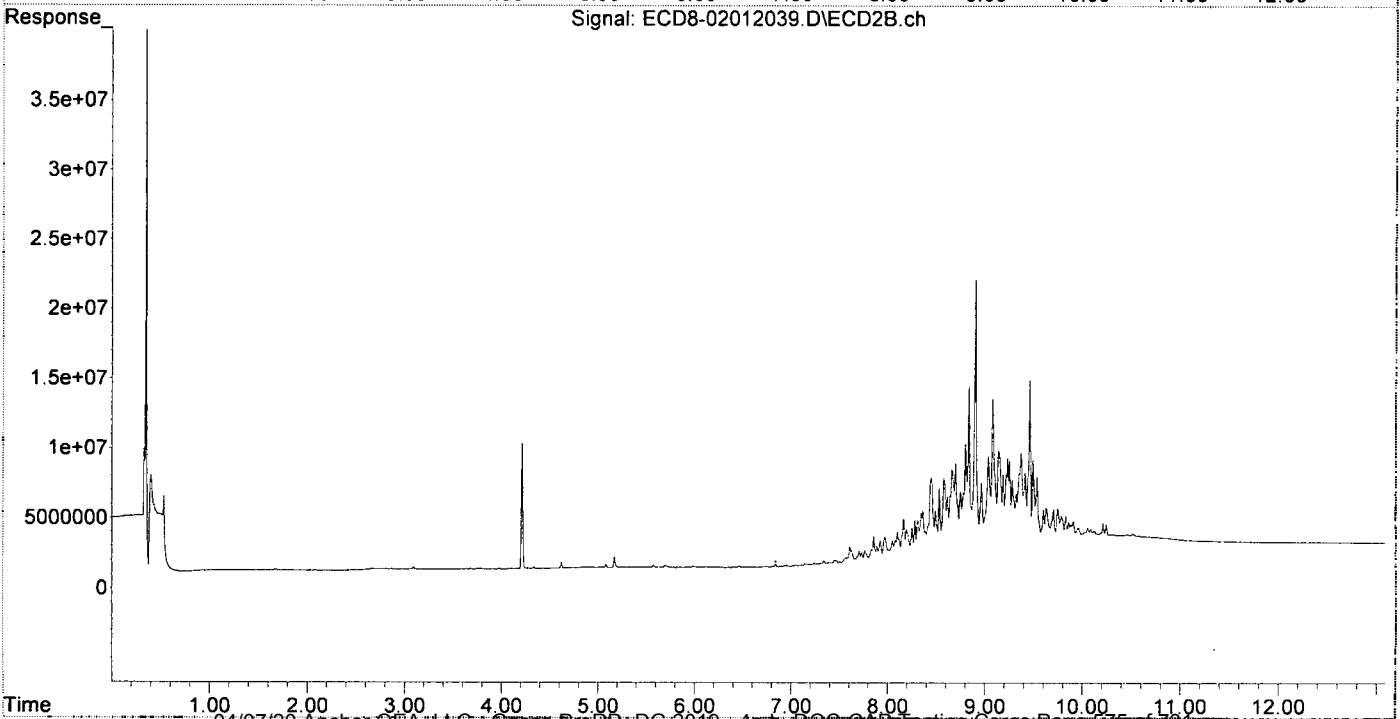
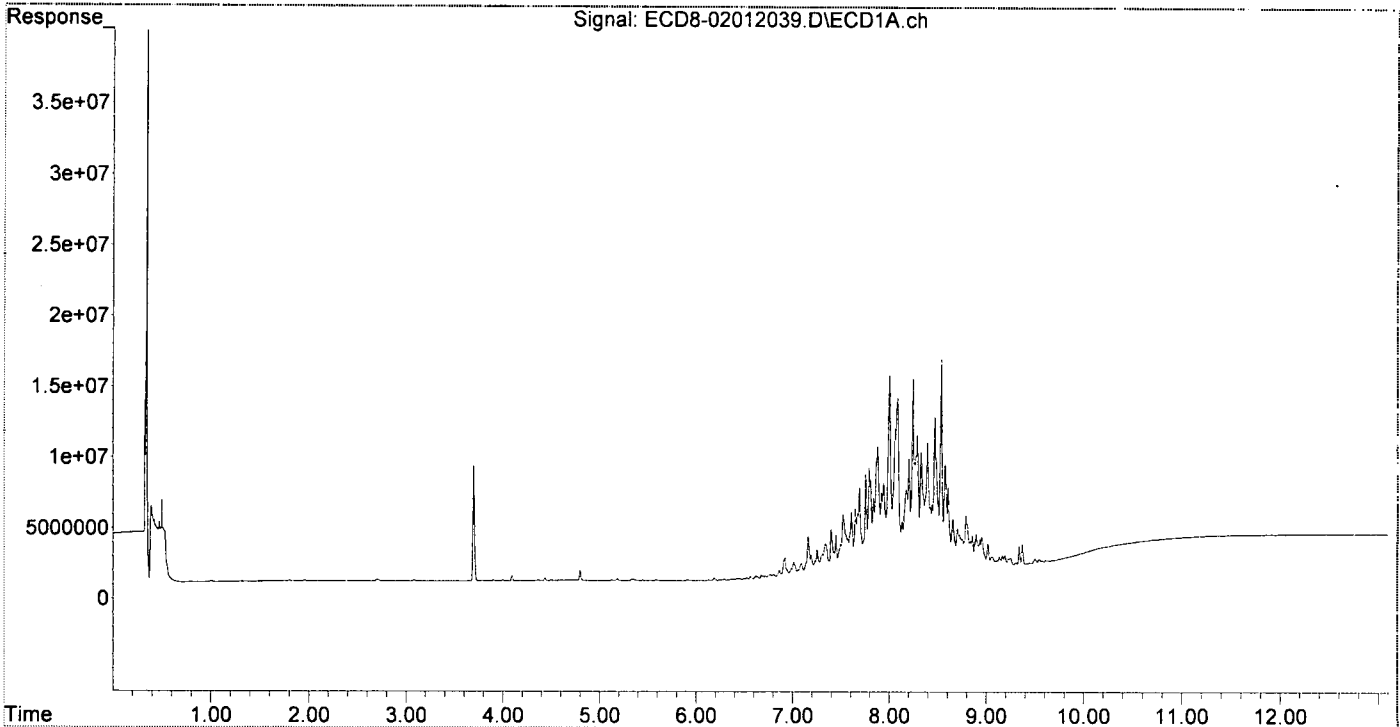
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlordane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.398	8.454	3210991	5983532	225.654	217.519
37) Toxaphene...	7.692	8.803	6077785	8295354	208.090	232.604
38) Toxaphene...	8.003	8.838	13955658	12406840	230.011	227.700
39) Toxaphene...	8.245	8.905	13559149	19955192	228.329	234.111
40) Toxaphene...	8.471	9.082	10723722	11485592	226.727	229.366
41) Toxaphene...	8.539	9.464	14823031	12675921	228.416	218.935
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 00:58
Operator : MJB
Sample : 0B01012-CALT
Misc : A19J419, TOX 200 ppb
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:29:52 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation



Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012040.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:15
 Operator : MJB
 Sample : 0B01012-CALU
 Misc : A19J420, TOX 500 ppb
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant. Time: Feb 03 15:27:06 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:22:31 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

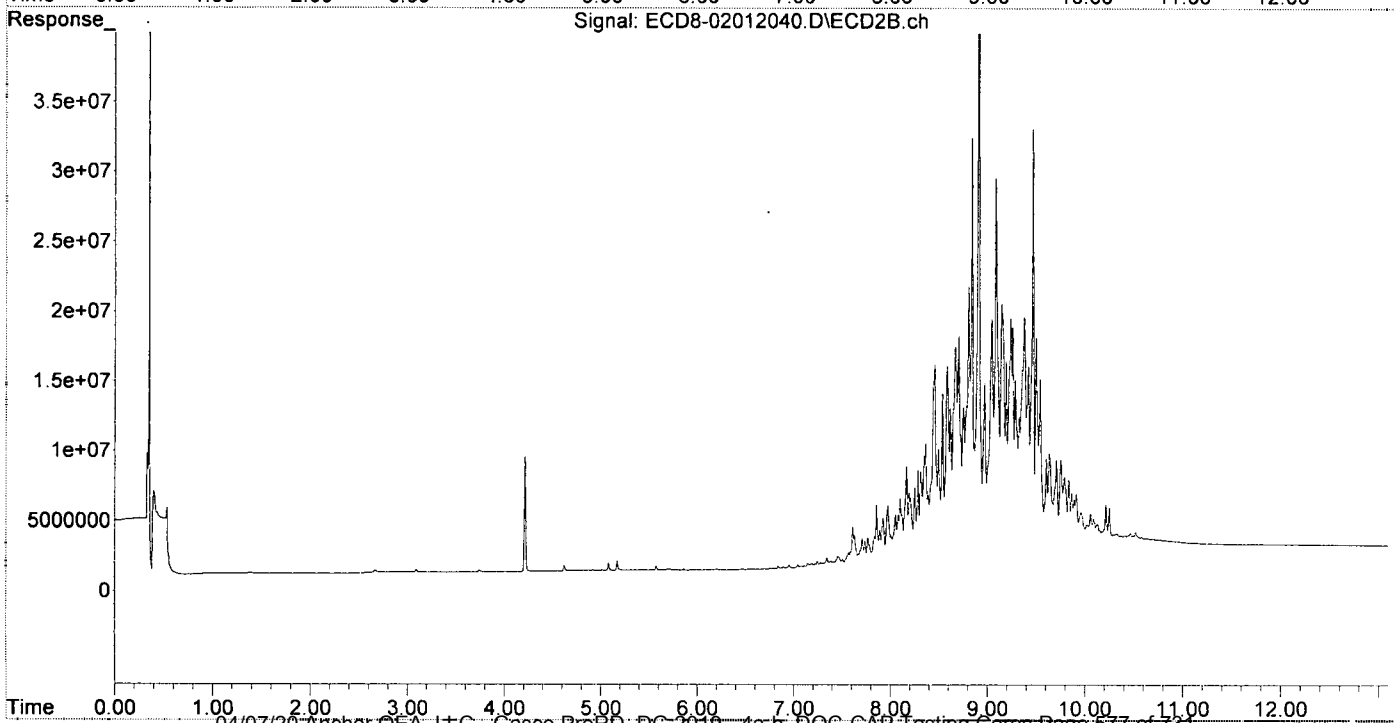
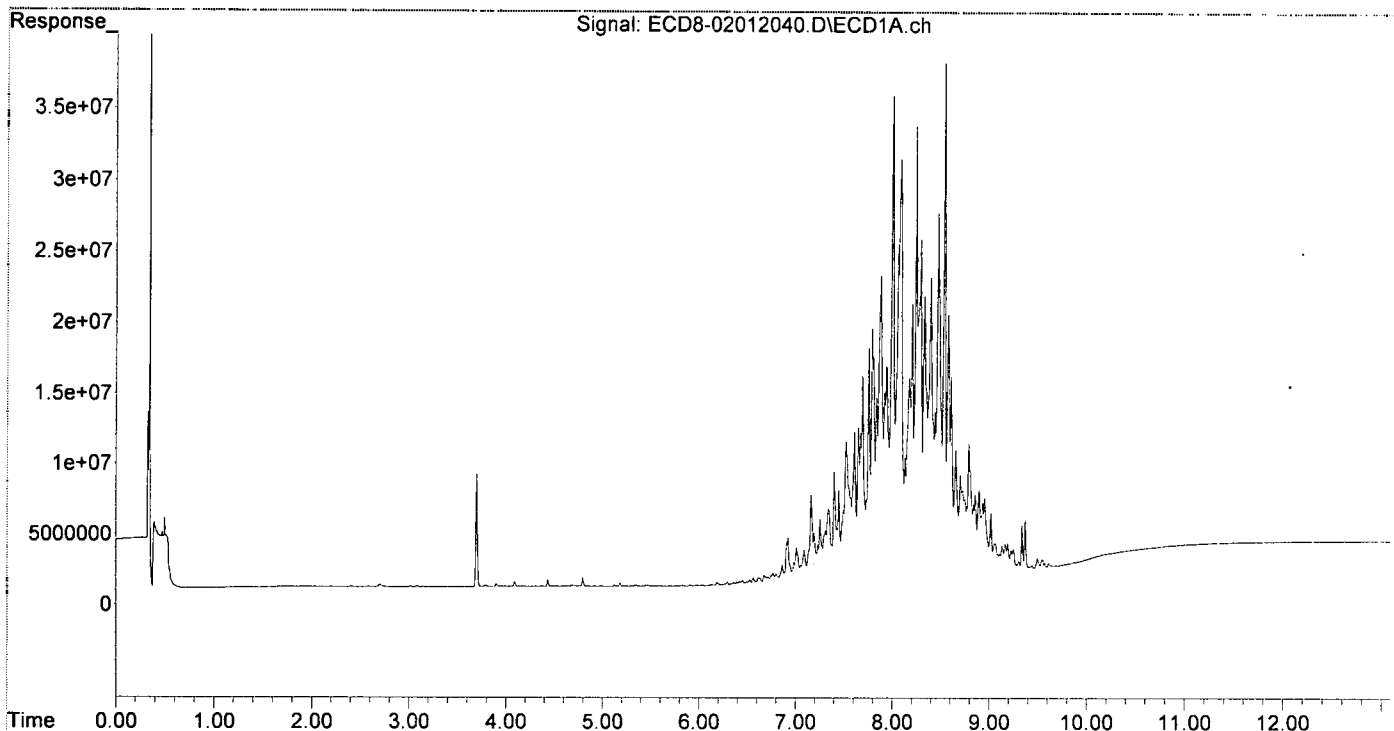
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.399	8.454	7624274	13991055	535.799	522.065
37) Toxaphene...	7.692	8.802	14283516	19375133	504.670	550.161
38) Toxaphene...	8.002	8.837	33827874	30083885	571.498	557.645
39) Toxaphene...	8.245	8.905	31701311	48832915	533.834	568.777
40) Toxaphene...	8.471	9.082	25454970	27050867	538.183	540.168
41) Toxaphene...	8.538	9.463	35990464	30451142	542.455	525.944
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:15
Operator : MJB
Sample : 0B01012-CALU
Misc : A19J420, TOX 500 ppb
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:27:06 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:22:31 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012041.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:32
 Operator : MJB
 Sample : 0B01012-CALV
 Misc : A19J421, TOX 1000 ppb
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:30:29 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MJB
2/3/20

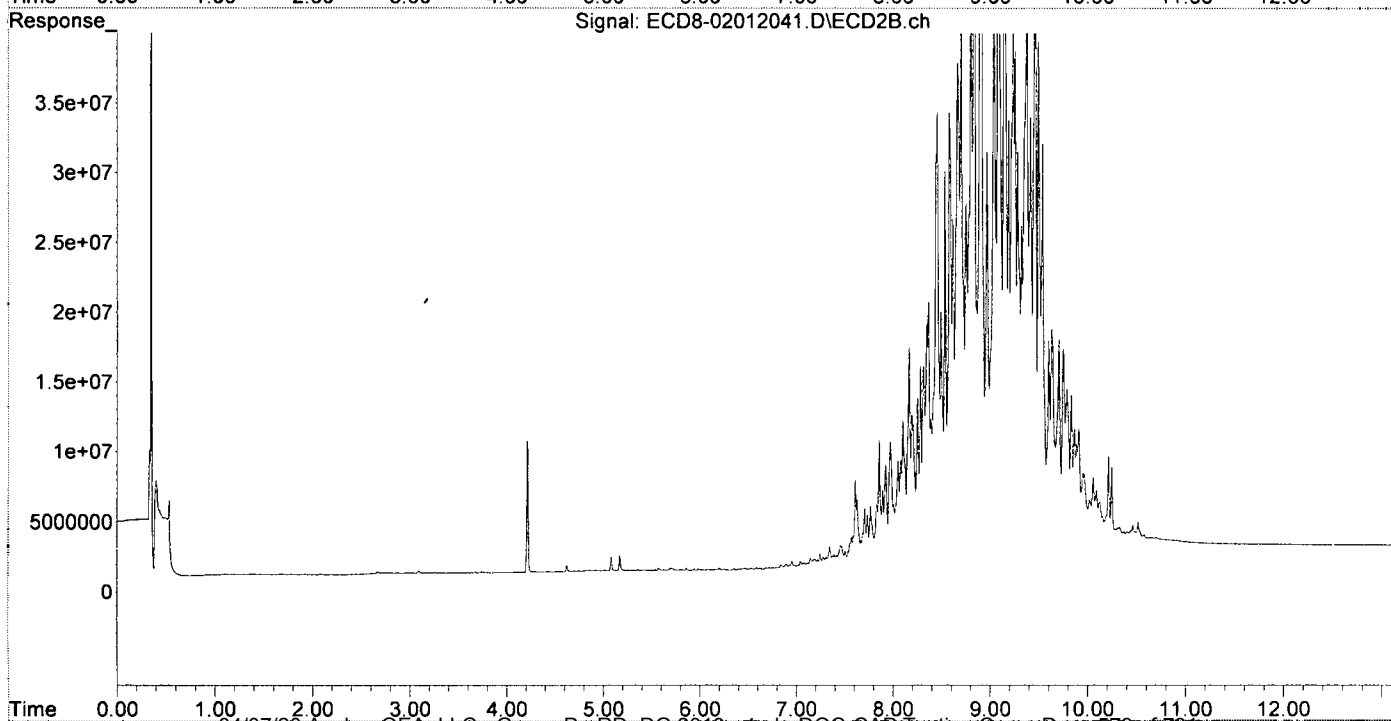
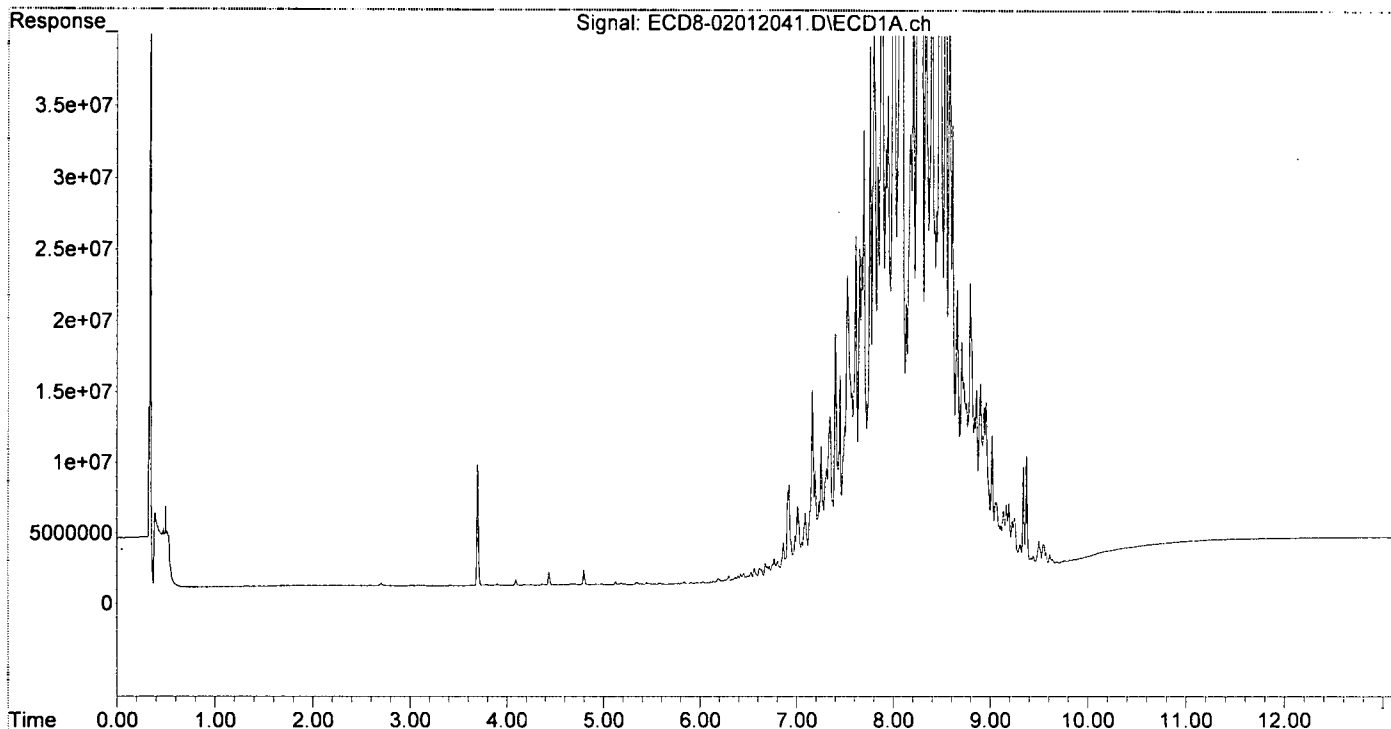
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.399	8.453	17126108	32020907	1203.545	1255.115
37) Toxaphene...	7.691	8.802	31290692	44952411	1177.930	1297.613
38) Toxaphene...	8.002	8.837	74869389	70006747	1298.898	1296.068
39) Toxaphene...	8.245	8.905	71267141	114.1E6	1200.102	1291.377
40) Toxaphene...	8.471	9.081	57604978	63084241	1217.916	1242.380
41) Toxaphene...	8.538	9.463	80425541	70673400	1212.189	1220.652
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012041.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:32
Operator : MJB
Sample : 0B01012-CALV
Misc : A19J421, TOX 1000 ppb
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:30:29 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
 Data File : ECD8-02012042.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 2 Feb 2020 1:48
 Operator : MJB
 Sample : 0B01012-CALW
 Misc : A19J416, TOX 200 ppb
 ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
 Integration File signal 2: PEST2.e
 Quant Time: Feb 03 15:31:07 2020
 Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
 Quant Title : Instrument: DualECD8
 QLast Update : Mon Feb 03 15:27:40 2020
 Response via : Initial Calibration
 Integrator: ChemStation

MVB
2/3/20

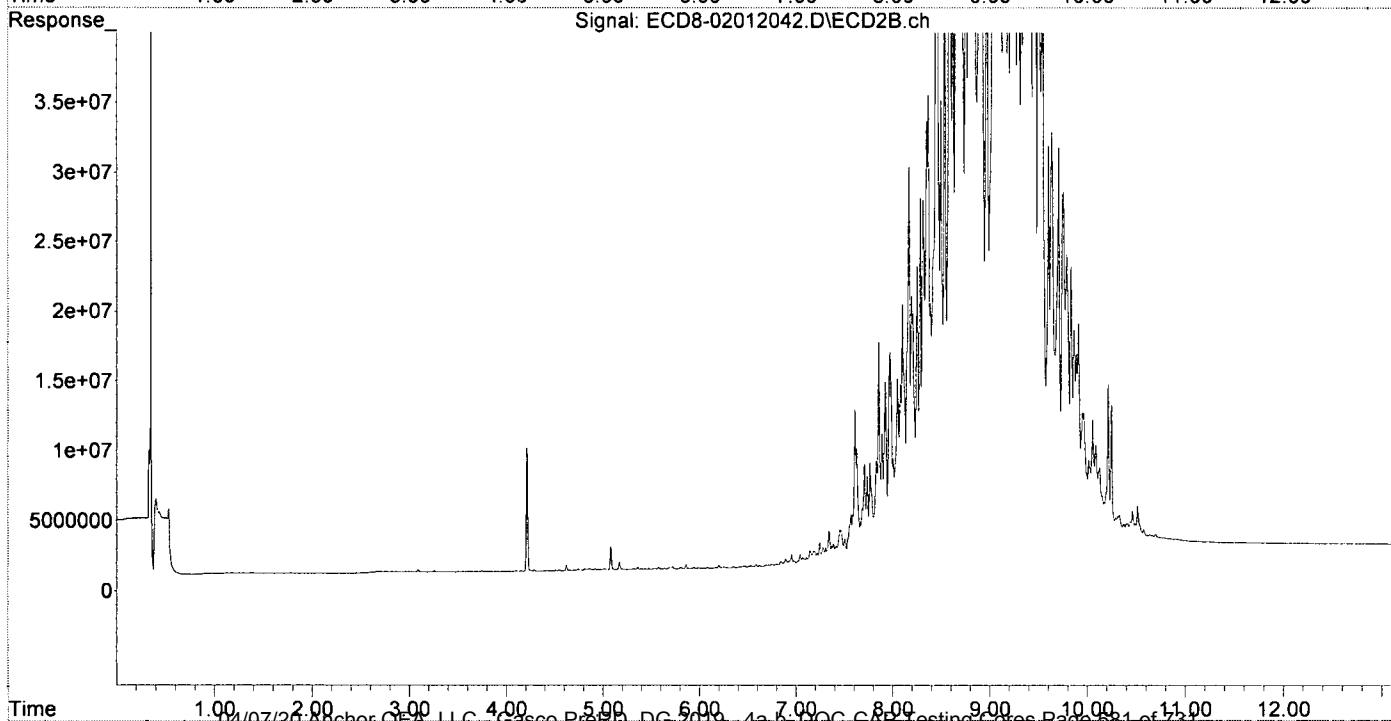
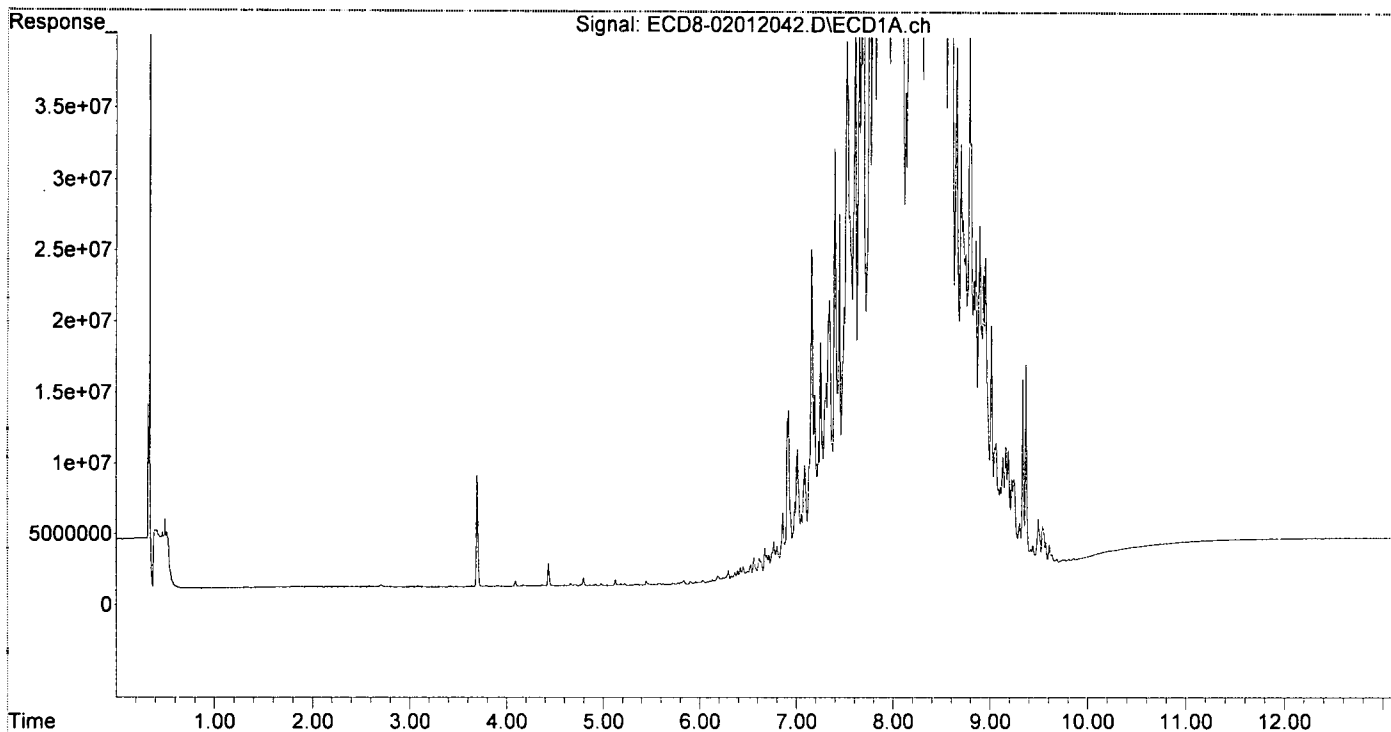
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
30) cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31) Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35) Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36) Toxaphene...	7.398	8.453	30177110	58830123	2120.709	2511.348
37) Toxaphene...	7.691	8.802	57148633	82998661	2442.230	2449.774
38) Toxaphene...	8.003	8.837	134.9E6	132.9E6	2423.208	2441.276
39) Toxaphene...	8.243	8.905	128.9E6	212.6E6	2171.417	2307.234
40) Toxaphene...	8.471	9.082	104.1E6	117.9E6	2200.668	2268.137
41) Toxaphene...	8.537	9.462	145.3E6	131.6E6	2190.132	2273.646
42) Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-02\0B01012\
Data File : ECD8-02012042.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 2 Feb 2020 1:48
Operator : MJB
Sample : 0B01012-CALW
Misc : A19J416, TOX 200 ppb
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e
Integration File signal 2: PEST2.e
Quant Time: Feb 03 15:31:07 2020
Quant Method : C:\msdchem\1\methods\ECD8_QUANTPEST_200108.M
Quant Title : Instrument: DualECD8
QLast Update : Mon Feb 03 15:27:40 2020
Response via : Initial Calibration
Integrator: ChemStation



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data**

Batch 0020423
Sequence 0B13031 (A0B0288-01RE1)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020423 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	one	>11
	0020423-BLK1	QC	02/13/20 11:25	11	5				100					
	0020423-BLK2	QC	02/13/20 11:25	11	5				100		Added 2/14/2020 by DTH			
	0020423-BS1	QC	02/13/20 11:25	10	5	A20B016		100	100					
	A0B0288-01	A 8270D LL PAH Only (Scan)	02/13/20 11:25	10.15	5				100	PDI-077SC-A-02-03-191014				
	0020423-DUP1	QC	02/13/20 11:25	10.09	5		A0B0288-01		100					
	0020423-MS1	QC	02/13/20 11:25	10.19	5	A20B016	A0B0288-01	100	100					
	A0B0288-01RE1	A 8270D LL PAH Only (Scan)	02/13/20 11:25	10.15	5				100	PDI-077SC-A-02-03-191014	Added 2/14/2020 by DTH			
	0020423-DUP2	QC	02/13/20 11:25	10.09	5		A0B0288-01RE1		100		Added 2/14/2020 by DTH			
	0020423-MS2	QC	02/13/20 11:25	10.19	5	A20B016	A0B0288-01RE1	100	100					

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20B016	08/01/20	LVI PAH Spike @2000ng/ml	A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A20A282	07/19/21	Sodium Sulfate Lot # 194865						

Method 3546 digestion time and temperture achieved.
Initial: _____

Witness: _____

Prepared By: _____ Date: _____
Reviewed By: DTH Date: 2/14/20



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020423 (Sediment)

Prep Method: EPA 3546

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	5-9	>11	
6	0020423-BLK1	QC	02/13/20 11:25	10.11	5 ✓				100						
7	0020423-BS1	QC	02/13/20 11:25	10	5 ✓	A20B016		100	100						
8	A0B0288-01	A 8270D LL PAH Only (Scan)	02/13/20 11:25	10.15	5 ✓				100	PDI-077SC-A-02-03-191014	nd				
9	0020423-DUPI	QC	02/13/20 11:25	10.09	5 ✓		A0B0288-01		100						
10	0020423-MS1	QC	02/13/20 11:25	10.19	5 ✓	A20B016	A0B0288-01	100	100						

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20B016	08/01/20	LVI PAH Spike @2000ng/ml	A19L265	06/07/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A20A281	07/19/21	Sodium Sulfate Lot # 196883						
A20A282								

Method 3546 digestion time and temperature achieved.

Initial: *cm*

Witness: *CAH 02/13/20*

Prepared By: *cm* Date: *02-13-20*

Reviewed By: *CAS* Date: *02/13/2020*



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B13031**

Instrument: **SV-GCMS14**

Date: **02/13/20 12:12**

Calibration: **A911001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B13031-IBL1	Sediment	QC	QC			A19K048	
2	0B13031-TUN1	Sediment	QC	QC			A19K048	A20B032
3	0B13031-CCV1	Sediment	QC	QC			A19K048	A19K012
4	0B13031-CCB1	Sediment	QC	QC			A19K048	
5	0B13031-IBL2	Sediment	QC	QC			A19K048	
6	0B13031-TUN2	Sediment	QC	QC			A19K048	A20B032
7	0B13031-CCV2	Sediment	QC	QC			A19K048	A19K012
8	0B13031-CCB2	Sediment	QC	QC			A19K048	
9	0020423-BLK1	Sediment	QC	QC		0020423	A19K048	
10	0020423-BLK2	Sediment	QC	QC		0020423	A19K048	
11	0020423-BS1	Sediment	QC	QC		0020423	A19K048	
12	A0B0288-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/25/20	0020423	A19K048	
13	A0B0288-01RE1	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	02/25/20	0020423	A19K048	
14	0020423-DUP1	Sediment	QC	QC		0020423	A19K048	
15	0020423-DUP2	Sediment	QC	QC		0020423	A19K048	
16	0020423-MS1	Sediment	QC	QC		0020423	A19K048	

Data Entered By: DH 2/14/20

Comments:

Data Reviewed By: Ma 2/17/20

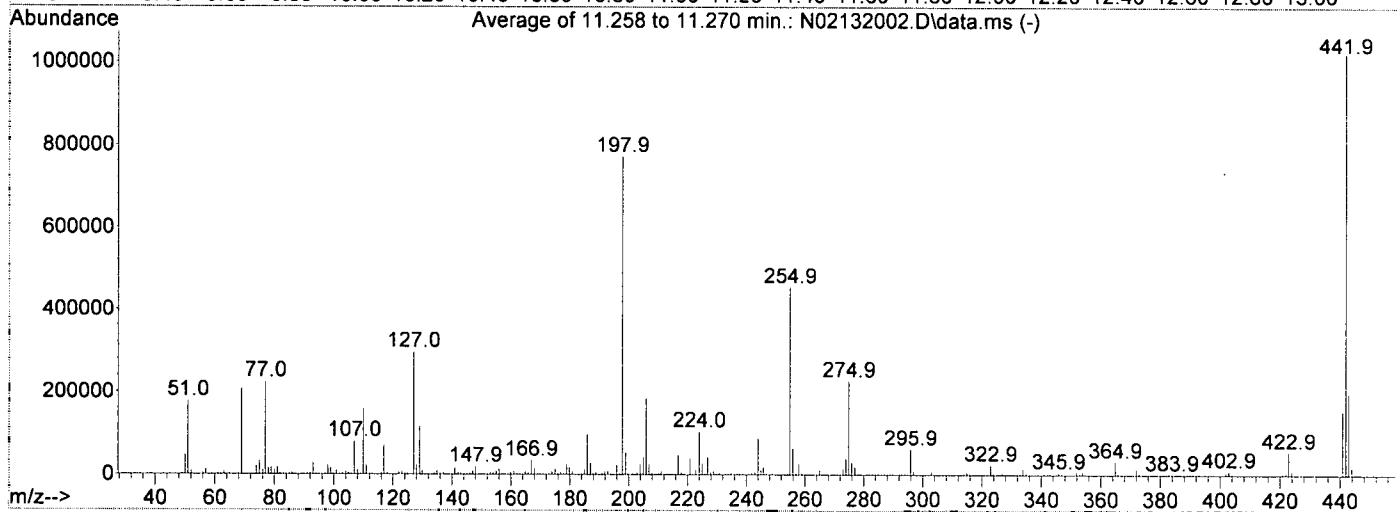
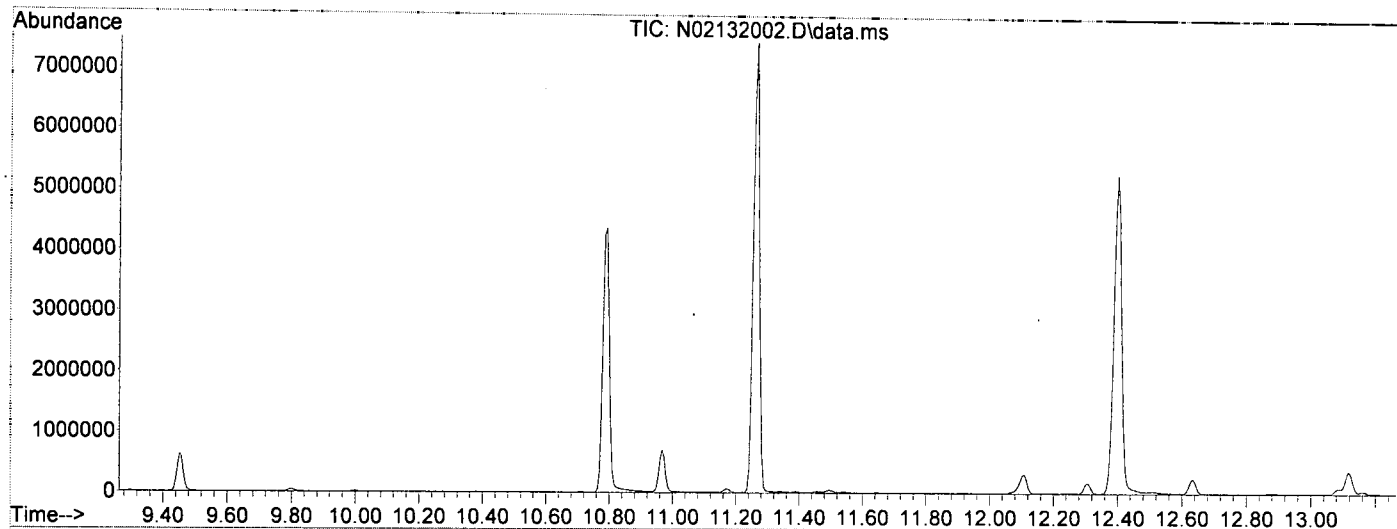
Data Path : U:\data\2020-02\0B13031\
 Data File : N02132002.D
 Acq On : 13 Feb 2020 12:56
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-TUN1
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1

Q14

MH 2/14/20

Integration File: rteint.p

Method : U:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Tue Feb 04 07:34:06 2020



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3303	PASS
69	69	100	100	100.0	206594	PASS
70	69	0.00	2	0.5	1071	PASS
197	198	0.00	2	0.5	3786	PASS
198	198	100	100	100.0	770453	PASS
199	198	5	9	6.8	52547	PASS
365	198	1	100	4.1	31520	PASS
441	443	0.01	150	77.5	152960	PASS
442	198	0.10	200	132.4	1020117	PASS
443	442	15	24	19.4	197440	PASS

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132002.D
 Acq On : 13 Feb 2020 12:56
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-TUN1
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 13 14:36:38 2020
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14

Q14
 DTH 2/14/20

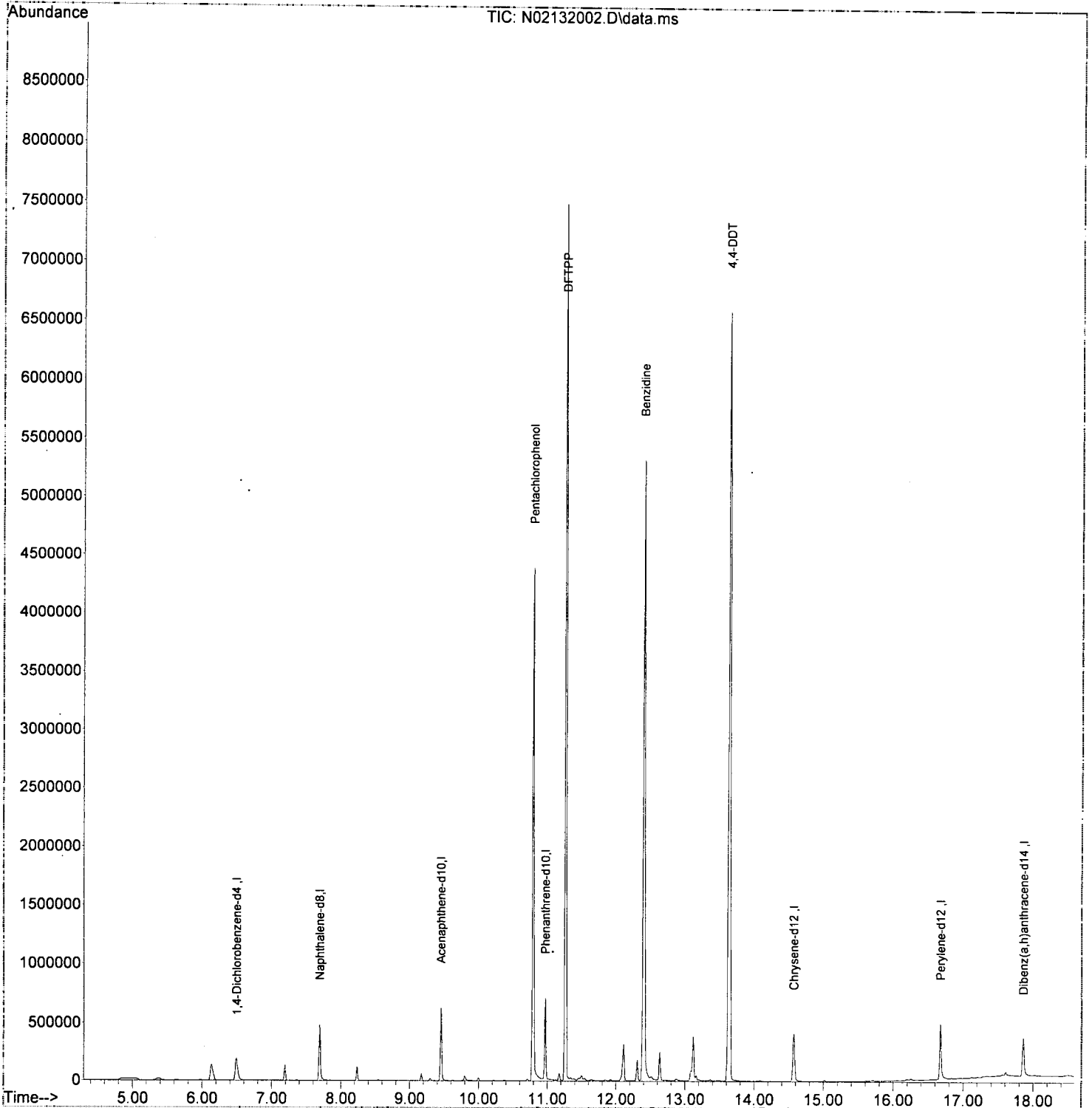
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.490	150	134975	2.00	ug/mL	0.00
2) Naphthalene-d8	7.691	136	371023	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.451	162	195555	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.966	188	366046	2.00	ug/mL	0.00
11) Chrysene-d12	14.569	240	299854	2.00	ug/mL	0.00
12) Perylene-d12	16.673	264	285910	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.856	292	256898	2.00	ug/mL	# 0.00
Target Compounds						
4) Pentachlorophenol	10.792	266	898060	48.63	ug/mL	Qvalue 81
6) DFTPP	11.264	442	1544834	52.28	ug/mL	77
7) Benzidine	12.400	184	3830837	29.42	ug/mL	97
8) 4,4-DDE	12.633	TIC	343142	No Calib		
9) 4,4-DDD	13.117	TIC	584328	No Calib		
10) 4,4-DDT	13.642	TIC	12279732	32.71	ug/mL	95

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132002.D
Acq On : 13 Feb 2020 12:56
Operator : JK/ AMS/ DTH
Sample : 0B13031-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 13 14:36:38 2020
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132003.D
 Acq On : 13 Feb 2020 13:23
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCV1
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:50:21 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

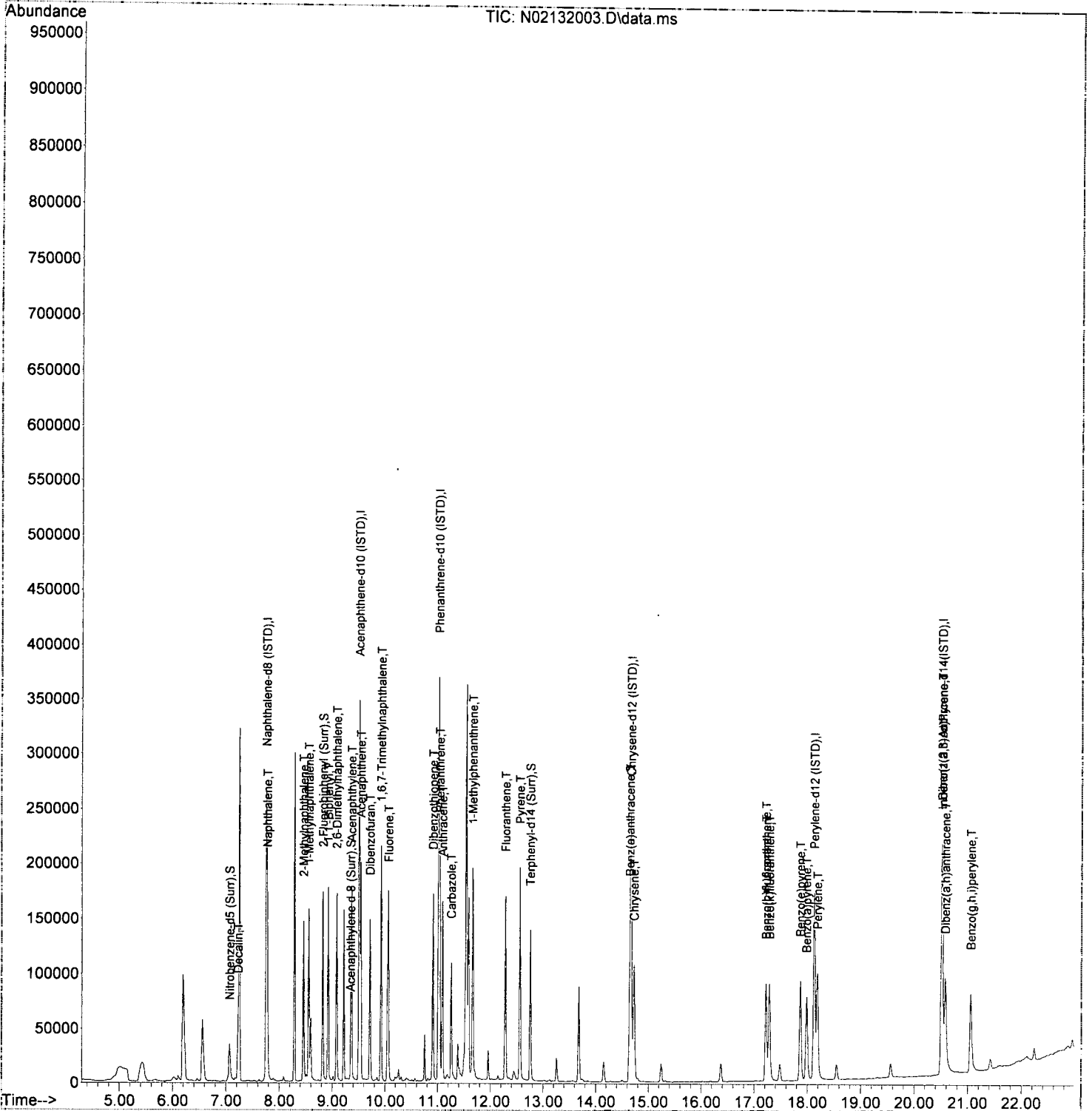
Q14
 01/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	190064	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.503	162	108593	100.00	ng/ml	-0.01	
17) Phenanthrene-d10 (ISTD)	11.013	188	200162	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.668	240	166928	100.00	ng/ml	-0.02	
29) Perylene-d12 (ISTD)	18.130	264	160360	100.00	ng/ml	-0.01	
37) Dibenz(a,h)Anthracene-d...	20.514	292	136850	100.00	ng/ml	-0.02	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.067	82	26982	42.72	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.821	172	84942	52.43	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.346	160	7572	2.03	ng/ml	-0.01	
26) Terphenyl-d14 (Surr)	12.756	244	82379	46.92	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.224	138	7418	52.42	ng/ml		87
4) Naphthalene	7.772	128	103560	49.40	ng/ml		100
5) 2-Methylnaphthalene	8.454	142	69504	39.13	ng/ml		98
6) 1-Methylnaphthalene	8.553	142	69645	39.21	ng/ml		97
7) 1,1'-Biphenyl	8.921	154	89422	37.43	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.084	156	63391	36.33	ng/ml		98
12) Acenaphthylene	9.364	152	116205	49.29	ng/ml		99
13) Acenaphthene	9.538	153	73089	47.33	ng/ml		99
14) Dibenzofuran	9.713	168	95971	49.62	ng/ml		96
15) 1,6,7-Trimethylnaphtha...	9.923	170	60707	46.88	ng/ml		96
16) Fluorene	10.063	166	72202	45.69	ng/ml		99
18) Dibenzothiopene	10.908	184	101775	48.62	ng/ml		96
19) Phenanthrene	11.036	178	113207	48.33	ng/ml		99
20) Anthracene	11.089	178	100902	46.31	ng/ml		98
21) Carbazole	11.252	167	75942	43.08	ng/ml		98
22) 1-Methylphenanthrene	11.660	192	79663	48.96	ng/ml		97
23) Fluoranthene	12.284	202	114565	48.55	ng/ml		96
25) Pyrene	12.558	202	119015	45.63	ng/ml		100
27) Benz(a)anthracene	14.644	228	84871	43.79	ng/ml		99
28) Chrysene	14.726	228	86068	46.93	ng/ml		100
30) Benzo(b)fluoranthene	17.221	252	83483	45.12	ng/ml		92
31) Benzo(k)fluoranthene	17.285	252	85446	46.90	ng/ml		93
32) Benzo(b+k)fluoranthene	17.221	252	176878	93.45	ng/ml		90
34) Benzo(e)pyrene	17.867	252	84419	45.12	ng/ml		97
35) Benzo(a)pyrene	17.984	252	73585	46.46	ng/ml		96
36) Perylene	18.188	252	94749	48.57	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	74871	44.36	ng/ml		80
39) Dibenz(a,h)anthracene	20.578	278	77153	48.65	ng/ml		83
40) Benzo(g,h,i)perylene	21.056	276	78324	43.75	ng/ml		98

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

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132003.D
 Acq On : 13 Feb 2020 13:23
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCV1
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:50:21 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132004.D
 Acq On : 13 Feb 2020 13:55
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:50:44 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

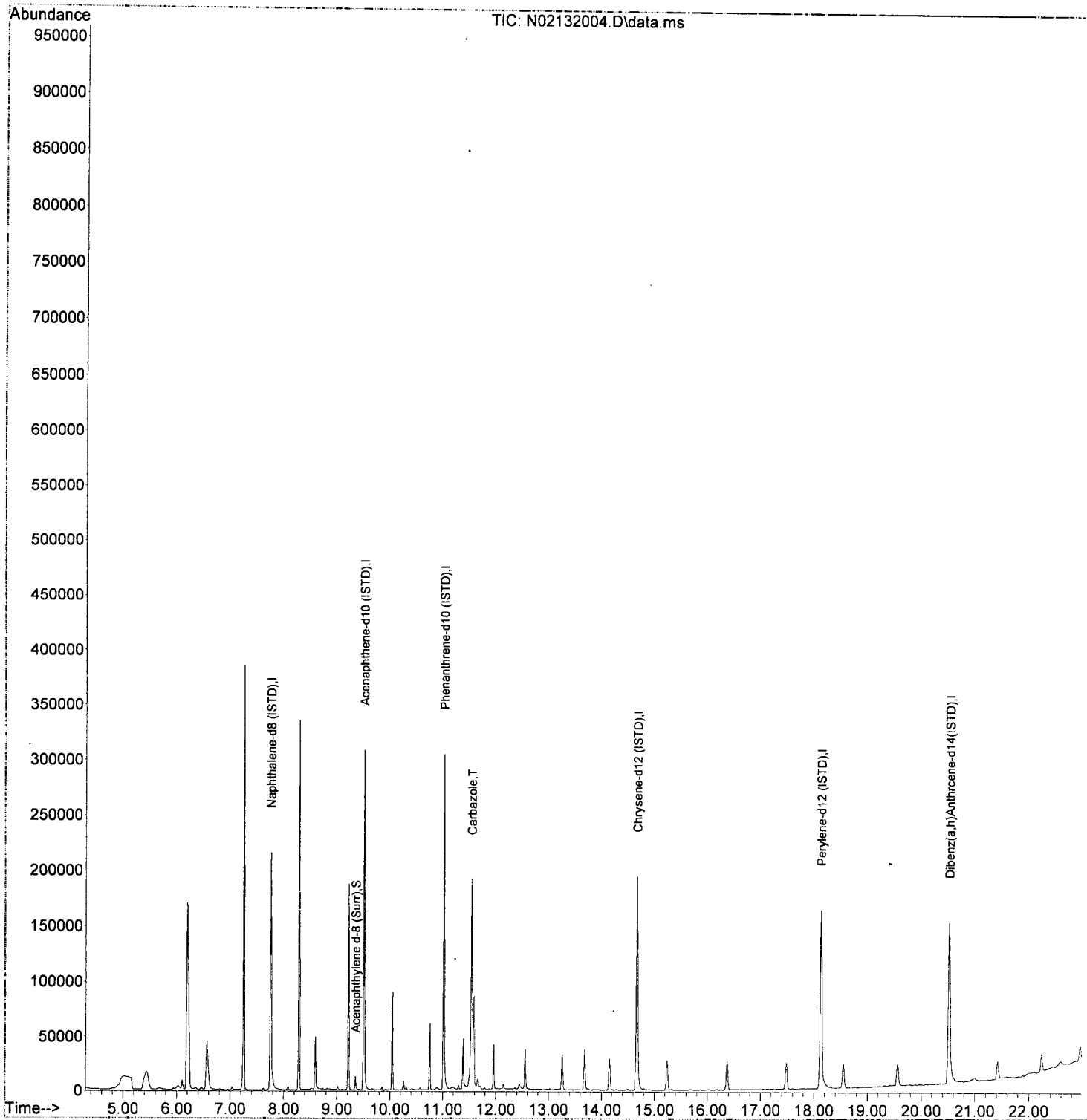
Q14
MT 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	177486	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.503	162	101291	100.00	ng/ml	-0.01	
17) Phenanthrene-d10 (ISTD)	11.013	188	181056	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.668	240	158484	100.00	ng/ml	-0.02	
29) Perylene-d12 (ISTD)	18.124	264	152382	100.00	ng/ml	-0.02	
37) Dibenz(a,h)Anthracene-d...	20.514	292	137166	100.00	ng/ml	-0.02	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml		
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.352	160	8608	2.80	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.762	244	70	0.04	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0		N.D.		Qvalue
4) Naphthalene	7.778	128	125		N.D.		
5) 2-Methylnaphthalene	0.000		0		N.D.		
6) 1-Methylnaphthalene	0.000		0		N.D.		
7) 1,1'-Biphenyl	8.932	154	53		N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0		N.D.		
12) Acenaphthylene	0.000		0		N.D.		
13) Acenaphthene	0.000		0		N.D.		
14) Dibenzofuran	0.000		0		N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.		
16) Fluorene	0.000		0		N.D.		
18) Dibenzothiopene	0.000		0		N.D.		
19) Phenanthrene	11.036	178	92		N.D.		
20) Anthracene	11.036	178	92		N.D.		
21) Carbazole	11.538	167	1156	0.72	ng/ml	84	
22) 1-Methylphenanthrene	0.000		0		N.D.		
23) Fluoranthene	0.000		0		N.D.		
25) Pyrene	12.569	202	97		N.D.		
27) Benz(a)anthracene	14.662	228	493		N.D.		
28) Chrysene	14.720	228	71		N.D.		
30) Benzo(b)fluoranthene	0.000		0		N.D.		
31) Benzo(k)fluoranthene	0.000		0		N.D.		
32) Benzo(b+k)fluoranthene	0.000		0		N.D.		
34) Benzo(e)pyrene	18.130	252	447		N.D.		
35) Benzo(a)pyrene	0.000		0		N.D.		
36) Perylene	18.130	252	507		N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.520	276	50		N.D.		
39) Dibenz(a,h)anthracene	20.590	278	64		N.D.		
40) Benzo(g,h,i)perylene	0.000		0		N.D.		

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132004.D
Acq On : 13 Feb 2020 13:55
Operator : JK/ AMS/ DTH
Sample : 0B13031-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:50:44 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



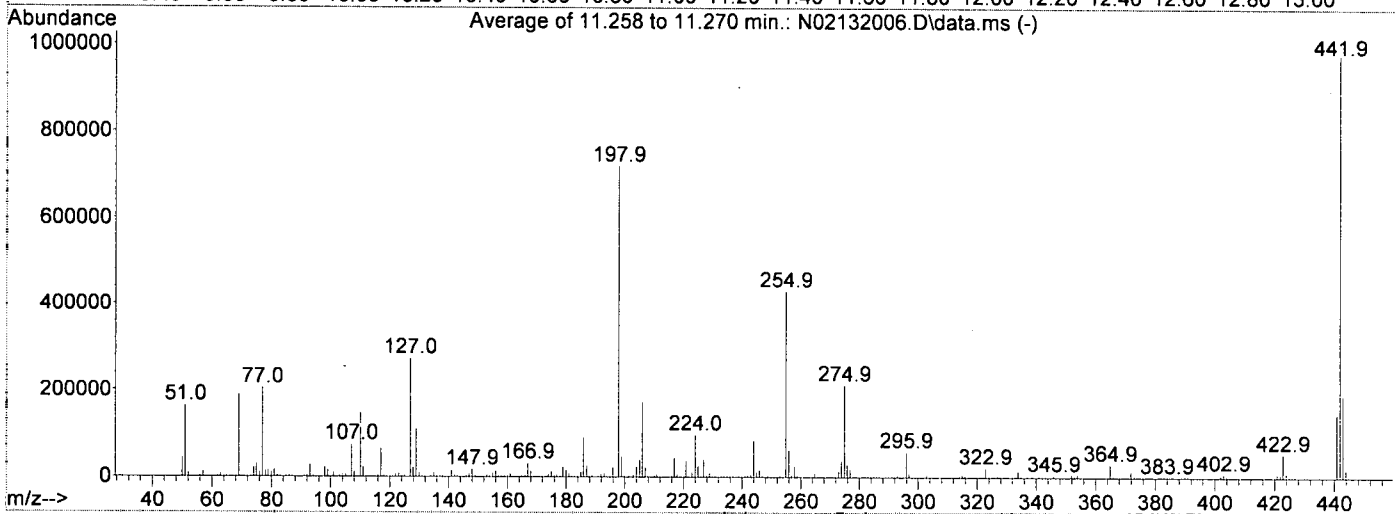
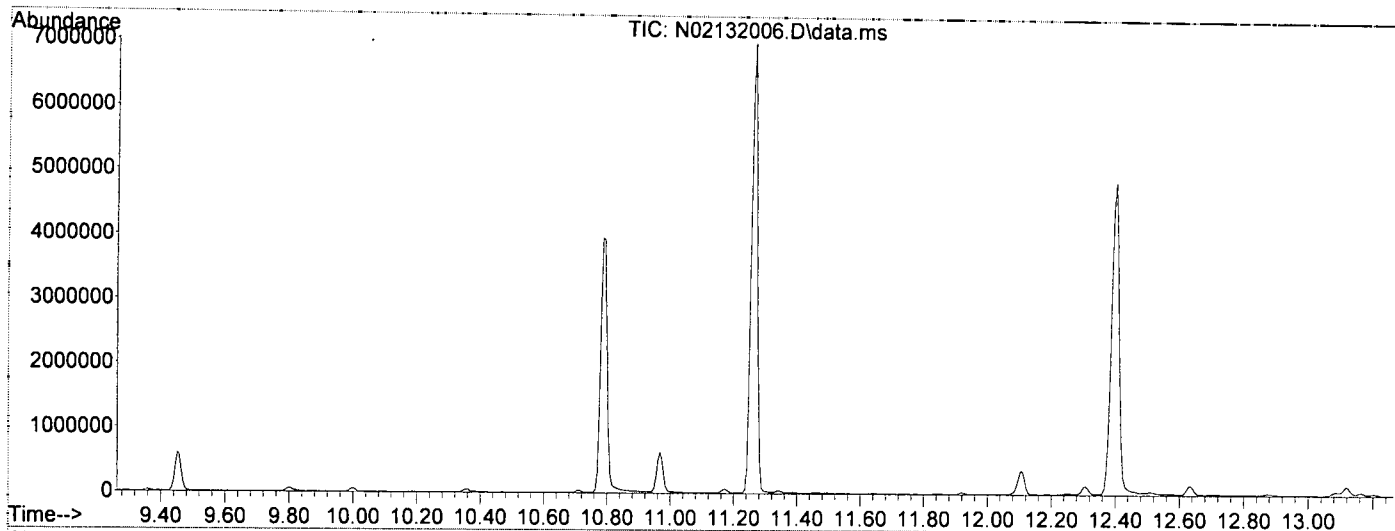
Data Path : U:\data\2020-02\0B13031\
 Data File : N02132006.D
 Acq On : 13 Feb 2020 15:10
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-TUN2
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1

Replaced liner ✓

Integration File: rteint.p

Method : U:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Tue Feb 04 07:34:06 2020

01/2/14/20 ✓



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.7	3207	PASS
69	69	100	100	100.0	189047	PASS
70	69	0.00	2	0.5	990	PASS
197	198	0.00	2	0.2	1395	PASS
198	198	100	100	100.0	718464	PASS
199	198	5	9	6.7	47824	PASS
365	198	1	100	4.1	29104	PASS
441	443	0.01	150	77.2	145837	PASS
442	198	0.10	200	136.0	977109	PASS
443	442	15	24	19.3	188992	PASS

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132006.D
 Acq On : 13 Feb 2020 15:10
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-TUN2
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 14 14:31:56 2020
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14

OK 2/14/20

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.490	150	122109	2.00	ug/mL	0.00
2) Naphthalene-d8	7.691	136	337361	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.451	162	189889	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.966	188	331461	2.00	ug/mL	0.00
11) Chrysene-d12	14.569	240	284702	2.00	ug/mL	0.00
12) Perylene-d12	16.673	264	279748	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.856	292	258256	2.00	ug/mL	# 0.00

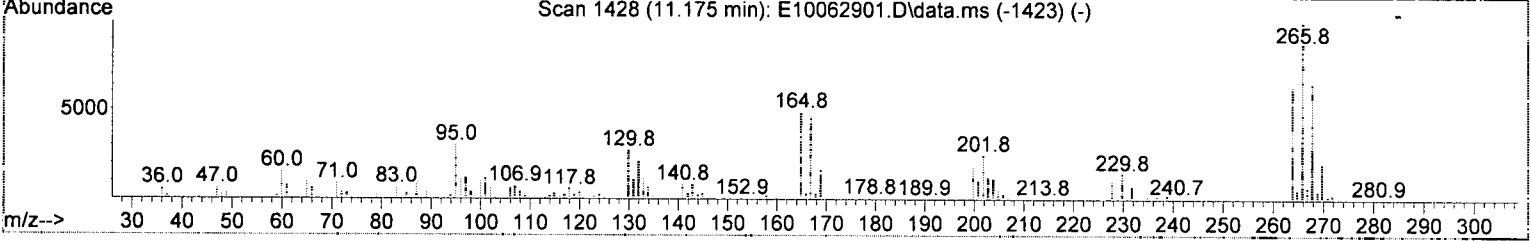
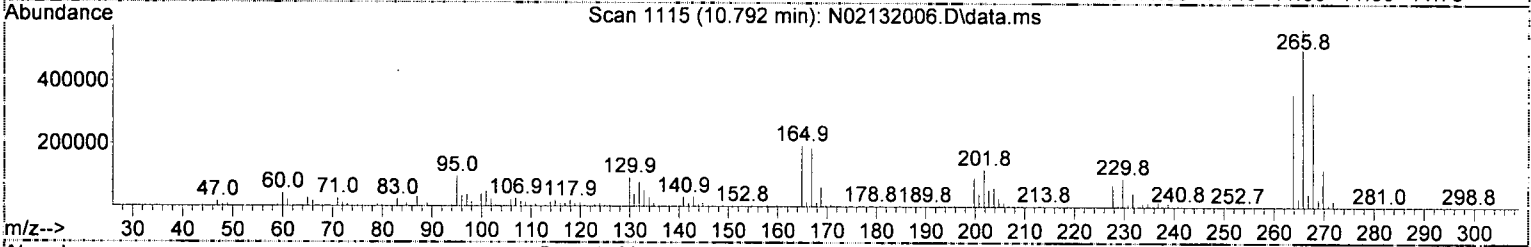
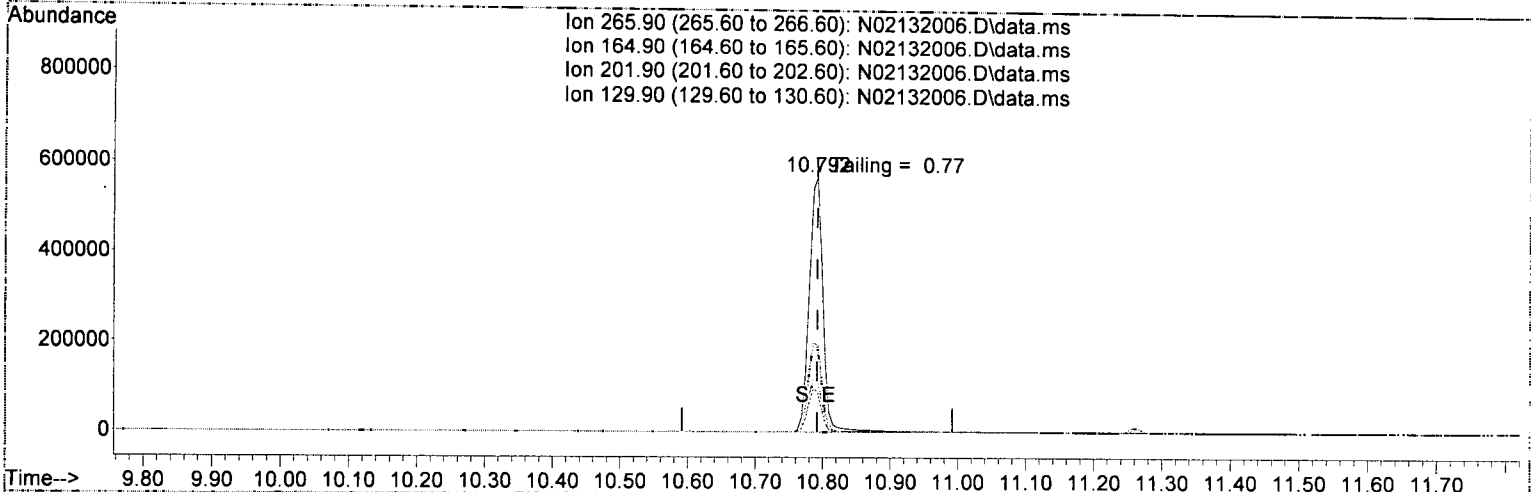
Target Compounds						
4) Pentachlorophenol	10.792	266	781215	43.57	ug/mL	Qvalue 80
6) DFTPP	11.264	442	1467562	54.84	ug/mL	75
7) Benzidine	12.400	184	3539897	30.02	ug/mL	97
8) 4,4-DDE	12.633	TIC	191157	No Calib		
9) 4,4-DDD	13.117	TIC	206312	No Calib		
10) 4,4-DDT	13.642	TIC	12263760	36.08	ug/mL	95

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132006.D
 Acq On : 13 Feb 2020 15:10
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-TUN2
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 14 14:31:56 2020
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132006.D\data.ms

(4) Pentachlorophenol

10.792min (+ 0.000) 43.57 ug/mL

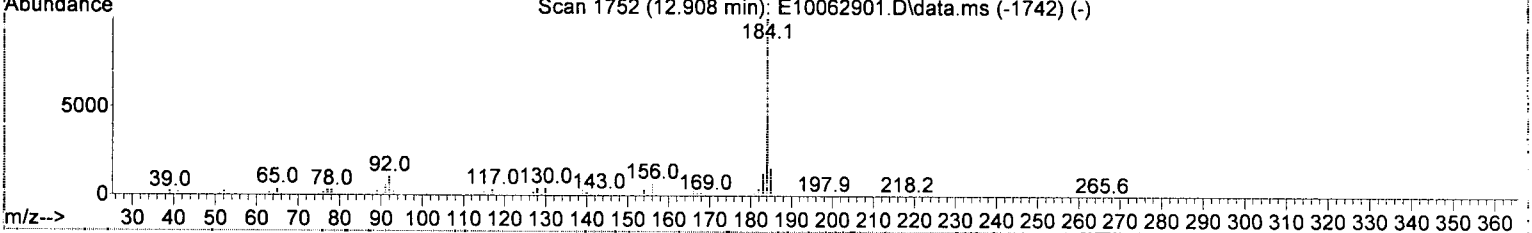
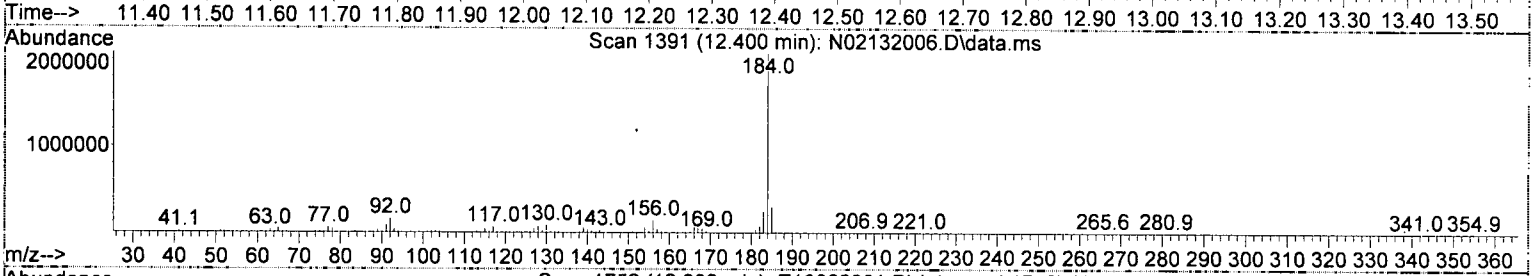
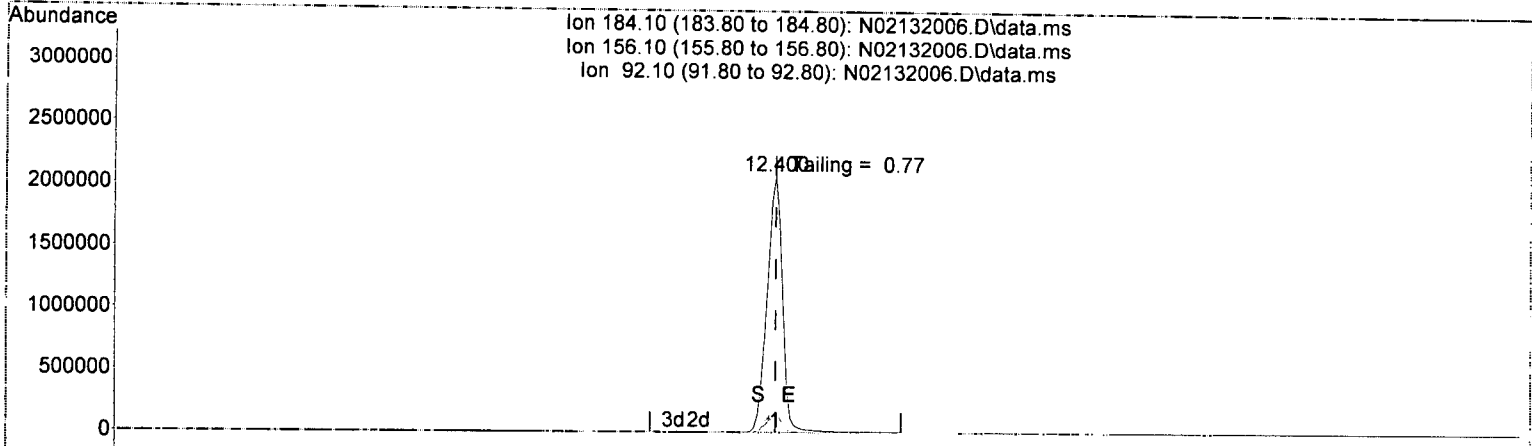
response 781215

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	34.05
201.90	25.80	20.74
129.90	27.30	15.99

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132006.D
 Acq On : 13 Feb 2020 15:10
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-TUN2
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 14 14:31:56 2020
 Quant Method : U:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132006.D\data.ms

(7) Benzidine

12.400min (+ 0.000) 30.02 ug/mL

response 3539897 ✓

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.92
92.10	8.20	7.64
0.00	0.00	0.00

DDT Breakdown Check (Validated 5/1/2013)

From:

0B13031-TUN¹² *mx 2/14/20*
SV-GCMS14

First Column Area Counts J Percent Breakdown

DDE 191157

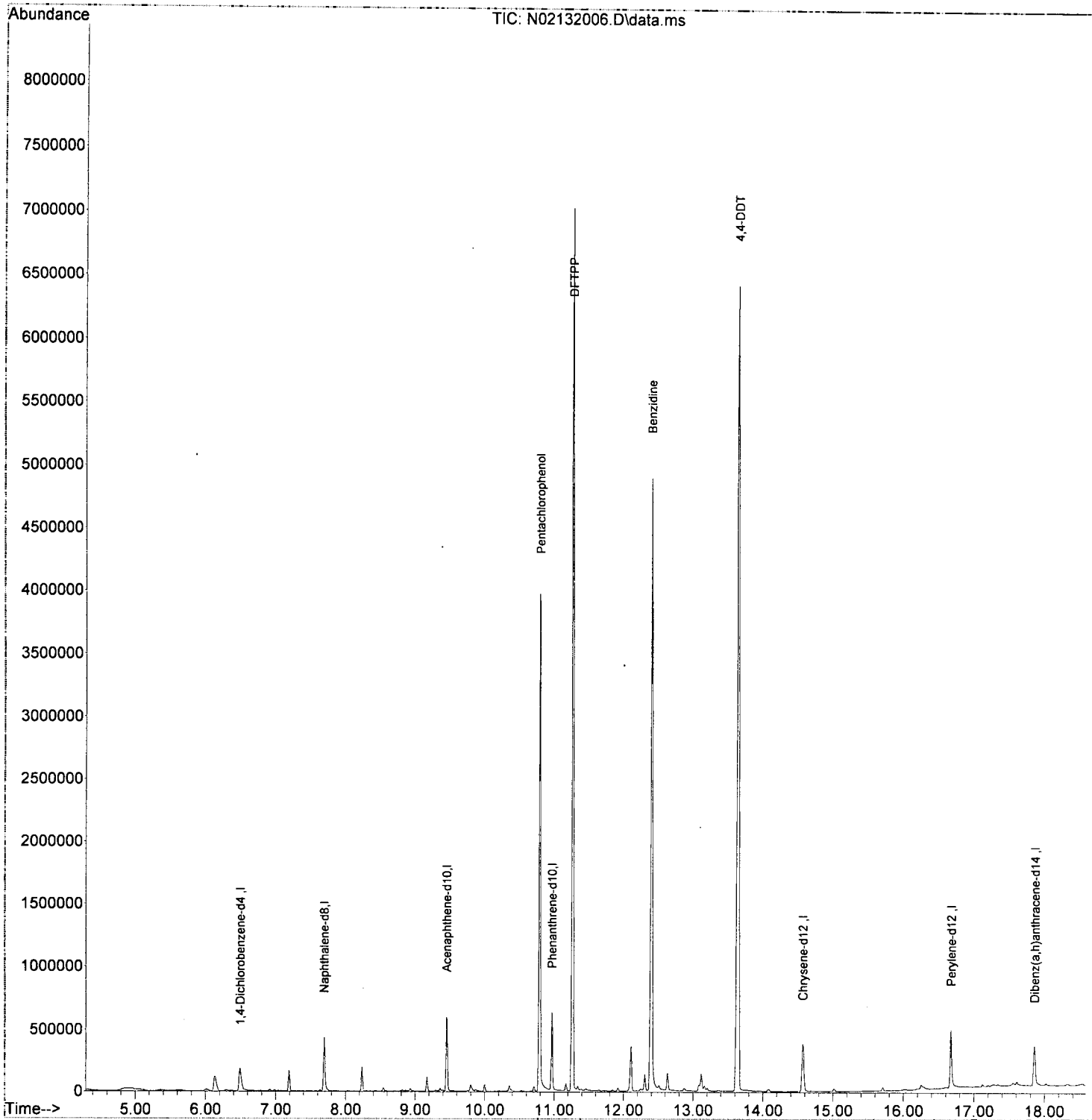
DDD 206312

DDT 12263760 3.14 PASS

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2020-02\0B13031\
Data File : N02132006.D
Acq On : 13 Feb 2020 15:10
Operator : JK/ AMS/ DTH
Sample : 0B13031-TUN2
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 14 14:31:56 2020
Quant Method : U:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132007.D
 Acq On : 13 Feb 2020 15:37
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCV2
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:29 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

DTH 2/14/20

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Naphthalene-d8 (ISTD)	100.000	100.000	0.0	120	0.00
2 S Nitrobenzene-d5 (Surr)	50.000	44.803	10.4	110	0.00
3 T Decalin	50.000	22.048	55.9#	52	0.00
4 T Naphthalene	50.000	49.064	1.9	120	0.00
5 T 2-Methylnaphthalene	50.000	43.613	12.8	104	0.00
6 T 1-Methylnaphthalene	50.000	41.730	16.5	97	0.00
7 T 1,1'-Biphenyl	50.000	41.140	17.7	99	0.00
8 T 2,6-Dimethylnaphthalene	50.000	40.749	18.5	95	0.00
9 I Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	99	0.00
10 S 2-Fluorobiphenyl (Surr)	50.000	49.968	0.1	100	0.00
11 S Acenaphthylene d-8 (Surr)	50.000	-1.000	102.0#	2	0.00
12 T Acenaphthylene	50.000	45.751	8.5	91	0.00
13 T Acenaphthene	50.000	47.747	4.5	96	0.00
14 T Dibenzofuran	50.000	47.807	4.4	95	0.00
15 T 1,6,7-Trimethylnaphthalene	50.000	46.912	6.2	95	0.00
16 T Fluorene	50.000	47.729	4.5	95	0.00
17 I Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	92	0.00
18 T Dibenzothiopene	50.000	48.952	2.1	91	0.00
19 T Phenanthrene	50.000	47.492	5.0	88	0.00
20 T Anthracene	50.000	46.389	7.2	86	0.00
21 T Carbazole	50.000	44.055	11.9	82	0.00
22 T 1-Methylphenanthrene	50.000	47.426	5.1	88	0.00
23 T Fluoranthene	50.000	46.102	7.8	85	0.00
24 I Chrysene-d12 (ISTD)	100.000	100.000	0.0	92	-0.01
25 T Pyrene	50.000	46.288	7.4	84	0.00
26 S Terphenyl-d14 (Surr)	50.000	47.231	5.5	87	0.00
27 T Benz(a)anthracene	50.000	43.658	12.7	85	-0.01
28 T Chrysene	50.000	46.187	7.6	86	-0.01
29 I Perylene-d12 (ISTD)	100.000	100.000	0.0	100	-0.01
30 T Benzo(b)fluoranthene	50.000	46.227	7.5	92	0.00
31 T Benzo(k)fluoranthene	50.000	47.450	5.1	96	0.00
32 T Benzo(b+k)fluoranthene	100.000	94.938	5.1	95	0.00
33 S Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34 T Benzo(e)pyrene	50.000	45.748	8.5	93	-0.01
35 T Benzo(a)pyrene	50.000	46.661	6.7	92	0.00
36 T Perylene	50.000	48.795	2.4	97	0.00
37 I Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	124	-0.01
38 T Indeno(1,2,3-cd)Pyrene	50.000	44.515	11.0	111	-0.01
39 T Dibenz(a,h)anthracene	50.000	46.053	7.9	115	-0.02
40 T Benzo(g,h,i)perylene	50.000	44.934	10.1	109	0.00

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

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132007.D
 Acq On : 13 Feb 2020 15:37
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCV2
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:29 2020

Quant Method : U:\methods\SV14_090619_PAHR7.M

Quant Title : EPA 8270D: Semivolatile Organics

QLast Update : Fri Dec 20 12:46:03 2019

Response via : Initial Calibration

InstName : SV-GCMS14

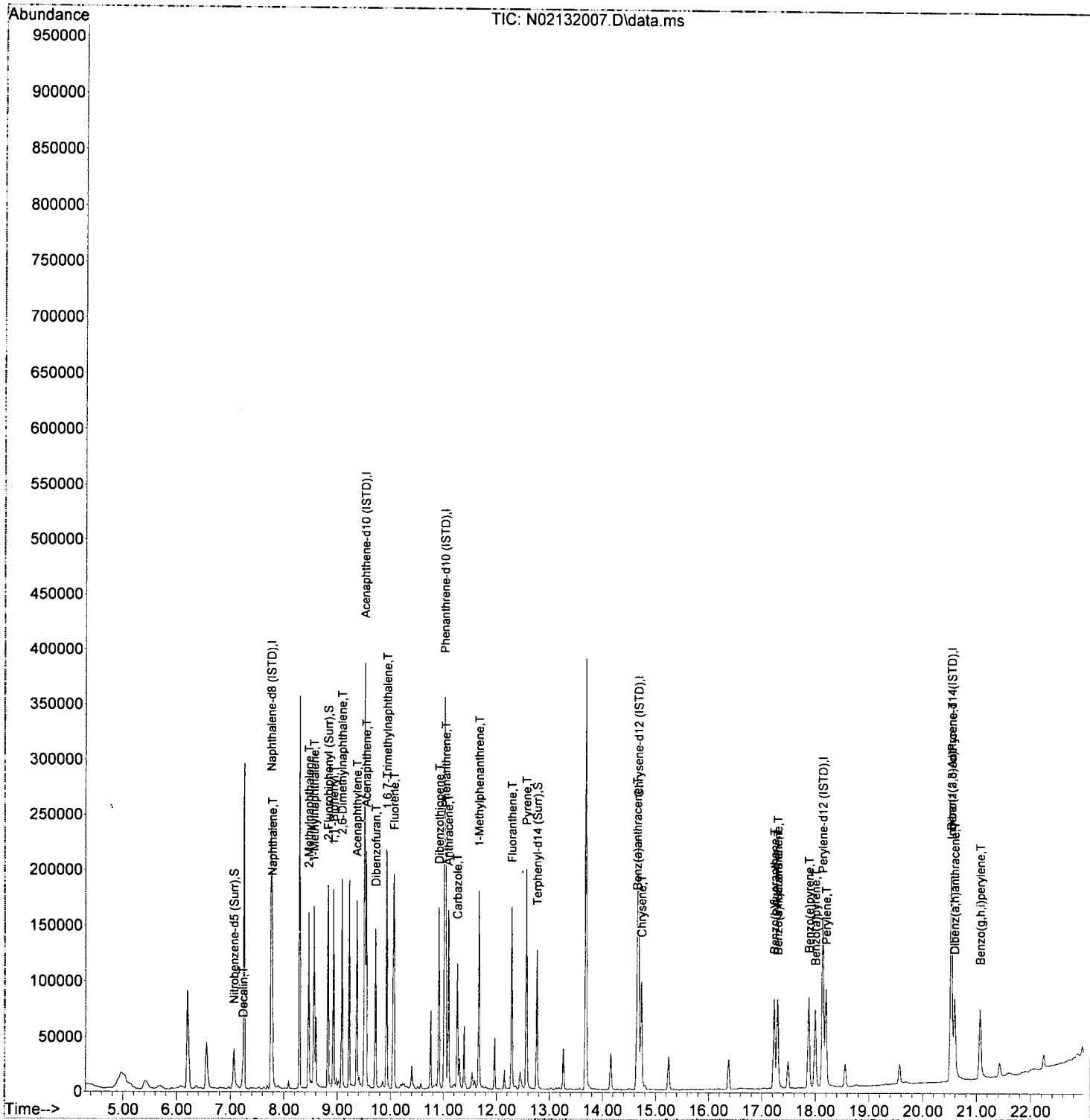
PAH 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	178010	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	116846	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.013	188	201094	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.674	240	155839	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.130	264	142507	100.00	ng/ml	-0.01	
37) Dibenz(a,h)Anthracene-d...	20.520	292	115258	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.061	82	26502	44.80	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.822	172	87102	49.97	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.352	160	2010	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.762	244	77412	47.23	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.230	138	2922	22.05	ng/ml		85
4) Naphthalene	7.778	128	96329	49.06	ng/ml		98
5) 2-Methylnaphthalene	8.460	142	72559	43.61	ng/ml		98
6) 1-Methylnaphthalene	8.559	142	69414	41.73	ng/ml		97
7) 1,1'-Biphenyl	8.927	154	92055	41.14	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.084	156	66590	40.75	ng/ml		98
12) Acenaphthylene	9.364	152	116056	45.75	ng/ml		98
13) Acenaphthene	9.539	153	79331	47.75	ng/ml		100
14) Dibenzofuran	9.719	168	99491	47.81	ng/ml		95
15) 1,6,7-Trimethylnaphtha...	9.929	170	65368	46.91	ng/ml		98
16) Fluorene	10.063	166	81150	47.73	ng/ml		99
18) Dibenzothiopene	10.914	184	102956	48.95	ng/ml		95
19) Phenanthrene	11.036	178	111756	47.49	ng/ml		99
20) Anthracene	11.089	178	101537	46.39	ng/ml		100
21) Carbazole	11.258	167	78026	44.06	ng/ml		99
22) 1-Methylphenanthrene	11.666	192	77526	47.43	ng/ml		99
23) Fluoranthene	12.284	202	109301	46.10	ng/ml		95
25) Pyrene	12.564	202	112698	46.29	ng/ml		99
27) Benz(a)anthracene	14.650	228	78991	43.66	ng/ml		100
28) Chrysene	14.732	228	79082	46.19	ng/ml		98
30) Benzo(b)fluoranthene	17.227	252	76015	46.23	ng/ml		93
31) Benzo(k)fluoranthene	17.291	252	76822	47.45	ng/ml		91
32) Benzo(b+k)fluoranthene	17.291	252	159682	94.94	ng/ml		91
34) Benzo(e)pyrene	17.873	252	76066	45.75	ng/ml		98
35) Benzo(a)pyrene	17.996	252	65674	46.66	ng/ml		97
36) Perylene	18.194	252	84587	48.80	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.526	276	63278	44.52	ng/ml		79
39) Dibenz(a,h)anthracene	20.584	278	61512	46.05	ng/ml		83
40) Benzo(g,h,i)perylene	21.062	276	67757	44.93	ng/ml		98

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

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132007.D
 Acq On : 13 Feb 2020 15:37
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCV2
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:29 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132008.D
 Acq On : 13 Feb 2020 16:09
 Operator : JK/ AMS/ DTH
 Sample : 0B13031-CCB2
 Misc : 1x, DCM + ISTD
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:32 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

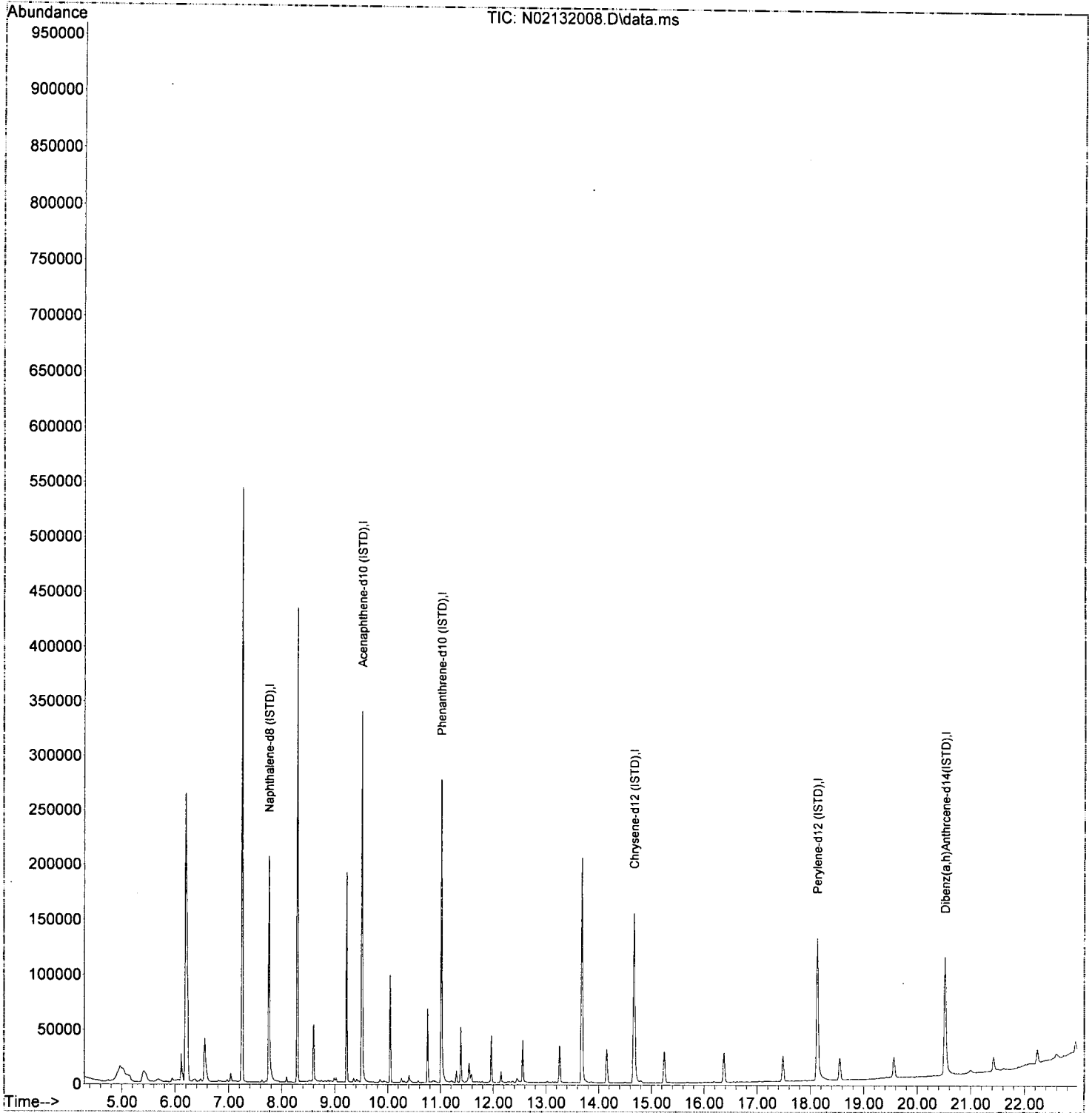
DM 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	175092	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	108842	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.013	188	174626	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.673	240	131593	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.130	264	121695	100.00	ng/ml	-0.01	
37) Dibenz(a,h)Anthracene-d...	20.520	292	99239	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.085	82	50	0.09	ng/ml	0.02	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.358	160	2793	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.773	244	69	0.05	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	0.000		0		N.D.		
4) Naphthalene	7.784	128	380		N.D.		
5) 2-Methylnaphthalene	0.000		0		N.D.		
6) 1-Methylnaphthalene	0.000		0		N.D.		
7) 1,1'-Biphenyl	8.932	154	161		N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0		N.D.		
12) Acenaphthylene	9.375	152	50		N.D.		
13) Acenaphthene	0.000		0		N.D.		
14) Dibenzofuran	0.000		0		N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.		
16) Fluorene	0.000		0		N.D.		
18) Dibenzothiopene	0.000		0		N.D.		
19) Phenanthrene	11.036	178	158		N.D.		
20) Anthracene	11.036	178	158		N.D.		
21) Carbazole	11.299	167	140		N.D.		
22) 1-Methylphenanthrene	0.000		0		N.D.		
23) Fluoranthene	12.289	202	63		N.D.		
25) Pyrene	12.569	202	59		N.D.		
27) Benz(a)anthracene	14.673	228	322		N.D.		
28) Chrysene	14.732	228	67		N.D.		
30) Benzo(b)fluoranthene	0.000		0		N.D.		
31) Benzo(k)fluoranthene	0.000		0		N.D.		
32) Benzo(b+k)fluoranthene	0.000		0		N.D.		
34) Benzo(e)pyrene	18.130	252	305		N.D.		
35) Benzo(a)pyrene	0.000		0		N.D.		
36) Perylene	18.130	252	371		N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.525	276	111		N.D.		
39) Dibenz(a,h)anthracene	0.000		0		N.D.		
40) Benzo(g,h,i)perylene	0.000		0		N.D.		

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132008.D
Acq On : 13 Feb 2020 16:09
Operator : JK/ AMS/ DTH
Sample : 0B13031-CCB2
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:32 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132009.D
 Acq On : 13 Feb 2020 16:41
 Operator : JK/ AMS/ DTH
 Sample : 0020423-BLK1
 Misc : 1x, 8270D PAH LL
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

*Mis injection
Do not use*

Quant Time: Feb 14 13:51:35 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

DN 2/14/20

*B
DN 2/14/20*

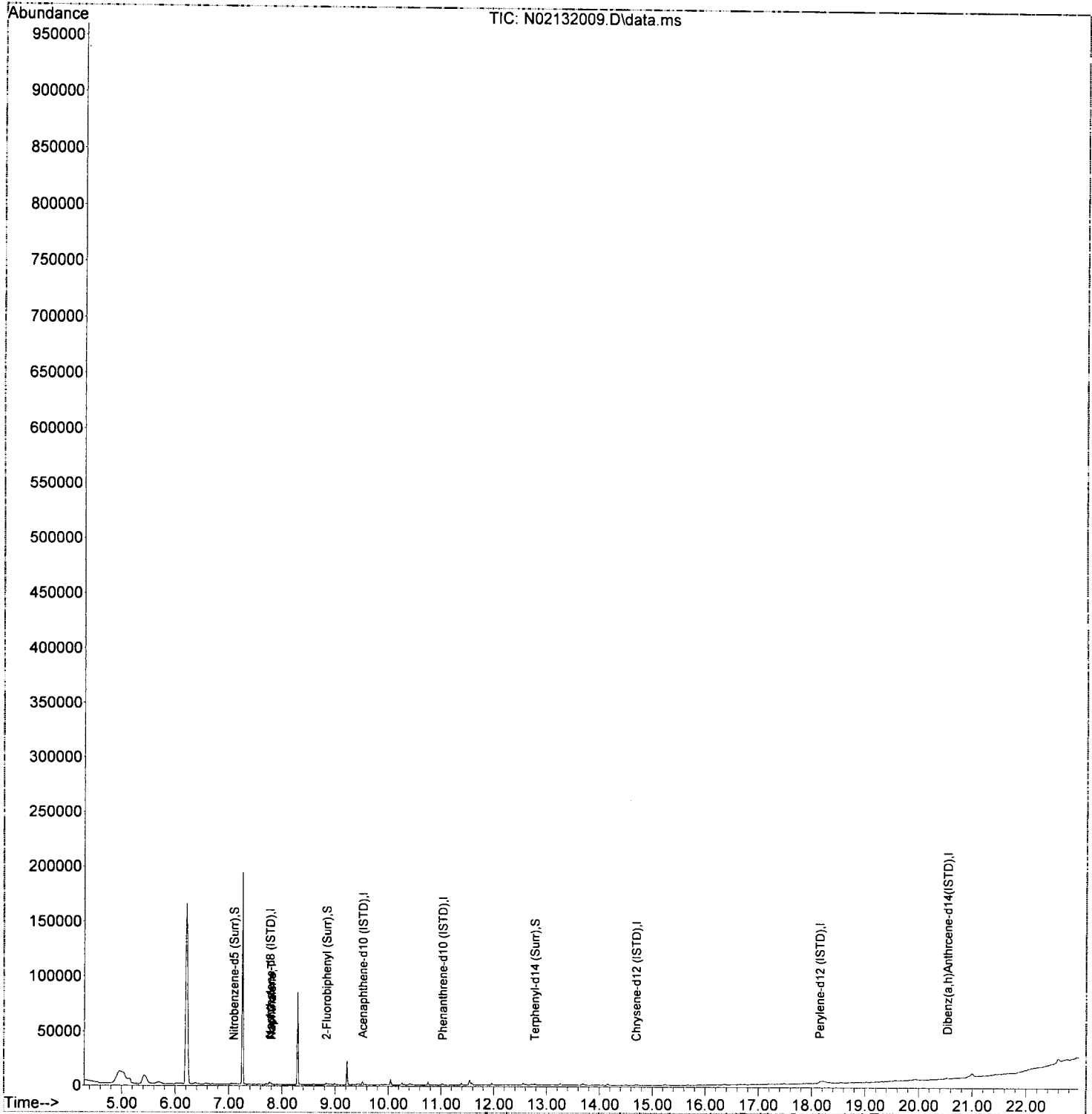
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.767	136	2796	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.515	162	1226	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.025	188	1606	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.691	240	1148	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.147	264	1080	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.531	292	876	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.090	82	478	51.45	ng/ml	0.02
10) 2-Fluorobiphenyl (Surr)	8.833	172	1508	82.45	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	0.000	160	0	0.00	ng/ml	
26) Terphenyl-d14 (Surr)	12.768	244	1215	100.63	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.796	128	261	8.46	ng/ml	68
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.		
12) Acenaphthylene	0.000		0	N.D.		
13) Acenaphthene	0.000		0	N.D.		
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	0.000		0	N.D.		
19) Phenanthrene	0.000		0	N.D.		
20) Anthracene	0.000		0	N.D.		
21) Carbazole	0.000		0	N.D.		
22) 1-Methylphenanthrene	0.000		0	N.D.		
23) Fluoranthene	0.000		0	N.D.		
25) Pyrene	0.000		0	N.D.		
27) Benz(a)anthracene	0.000		0	N.D.		
28) Chrysene	0.000		0	N.D.		
30) Benzo(b)fluoranthene	0.000		0	N.D.		
31) Benzo(k)fluoranthene	0.000		0	N.D.		
32) Benzo(b+k)fluoranthene	0.000		0	N.D.		
34) Benzo(e)pyrene	0.000		0	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	0.000		0	N.D.		
38) Indeno(1,2,3-cd)Pyrene	0.000		0	N.D.		
39) Dibenz(a,h)anthracene	0.000		0	N.D.		
40) Benzo(g,h,i)perylene	0.000		0	N.D.		

DN 2/14/20

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132009.D
Acq On : 13 Feb 2020 16:41
Operator : JK/ AMS/ DTH
Sample : 0020423-BLK1
Misc : 1x, 8270D PAH LL
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:35 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132010.D
 Acq On : 13 Feb 2020 17:13
 Operator : JK/ AMS/ DTH
 Sample : 0020423-BLK2
 Misc : 1x, 8270D PAH LL
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:38 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

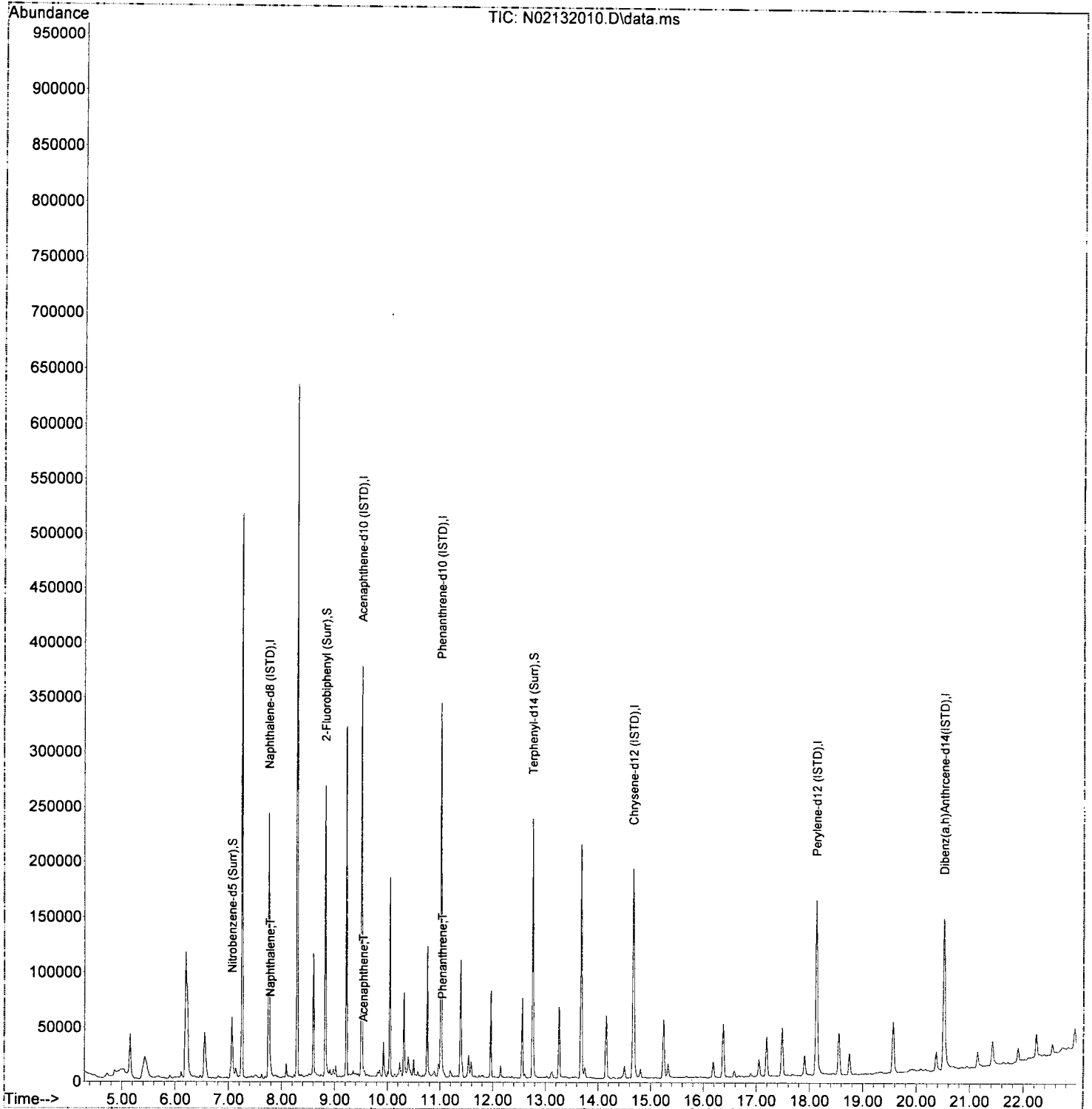
ATA 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	185468	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	115433	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.013	188	196413	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.668	240	154942	100.00	ng/ml	-0.02	
29) Perylene-d12 (ISTD)	18.130	264	145536	100.00	ng/ml	-0.01	
37) Dibenz(a,h)Anthracene-d...	20.514	292	118265	100.00	ng/ml	-0.02	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.061	82	41518	67.37	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.822	172	130997	76.07	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.352	160	3191	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.756	244	140376	86.14	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0		N.D.		Qvalue
4) Naphthalene	7.778	128	1799	0.88	ng/ml	96	
5) 2-Methylnaphthalene	8.460	142	548		N.D.		
6) 1-Methylnaphthalene	8.559	142	281		N.D.		
7) 1,1'-Biphenyl	8.927	154	437		N.D.		
8) 2,6-Dimethylnaphthalene	9.090	156	186		N.D.		
12) Acenaphthylene	9.370	152	155		N.D.		
13) Acenaphthene	9.539	153	669	0.41	ng/ml	96	
14) Dibenzofuran	9.719	168	96		N.D.		
15) 1,6,7-Trimethylnaphtha...	9.929	170	78		N.D.		
16) Fluorene	10.069	166	327		N.D.		
18) Dibenzothiopene	10.914	184	224		N.D.		
19) Phenanthrene	11.037	178	1648	0.72	ng/ml	98	
20) Anthracene	11.089	178	195		N.D.		
21) Carbazole	11.264	167	106		N.D.		
22) 1-Methylphenanthrene	11.666	192	252		N.D.		
23) Fluoranthene	12.284	202	619		N.D.		
25) Pyrene	12.564	202	775		N.D.		
27) Benz(a)anthracene	14.668	228	609		N.D.		
28) Chrysene	14.726	228	390		N.D.		
30) Benzo(b)fluoranthene	17.227	252	308		N.D.		
31) Benzo(k)fluoranthene	17.302	252	58		N.D.		
32) Benzo(b+k)fluoranthene	17.227	252	401		N.D.		
34) Benzo(e)pyrene	17.874	252	255		N.D.		
35) Benzo(a)pyrene	17.990	252	198		N.D.		
36) Perylene	18.130	252	534		N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.526	276	129		N.D.		
39) Dibenz(a,h)anthracene	0.000		0		N.D.		
40) Benzo(g,h,i)perylene	21.068	276	132		N.D.		

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132010.D
Acq On : 13 Feb 2020 17:13
Operator : JK/ AMS/ DTH
Sample : 0020423-BLK2
Misc : 1x, 8270D PAH LL
ALS Vial : 4 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:38 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132011.D
 Acq On : 13 Feb 2020 17:45
 Operator : JK/ AMS/ DTH
 Sample : 0020423-BS1
 Misc : 1x, 8270D PAH LL
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:41 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

mt 2/14/20

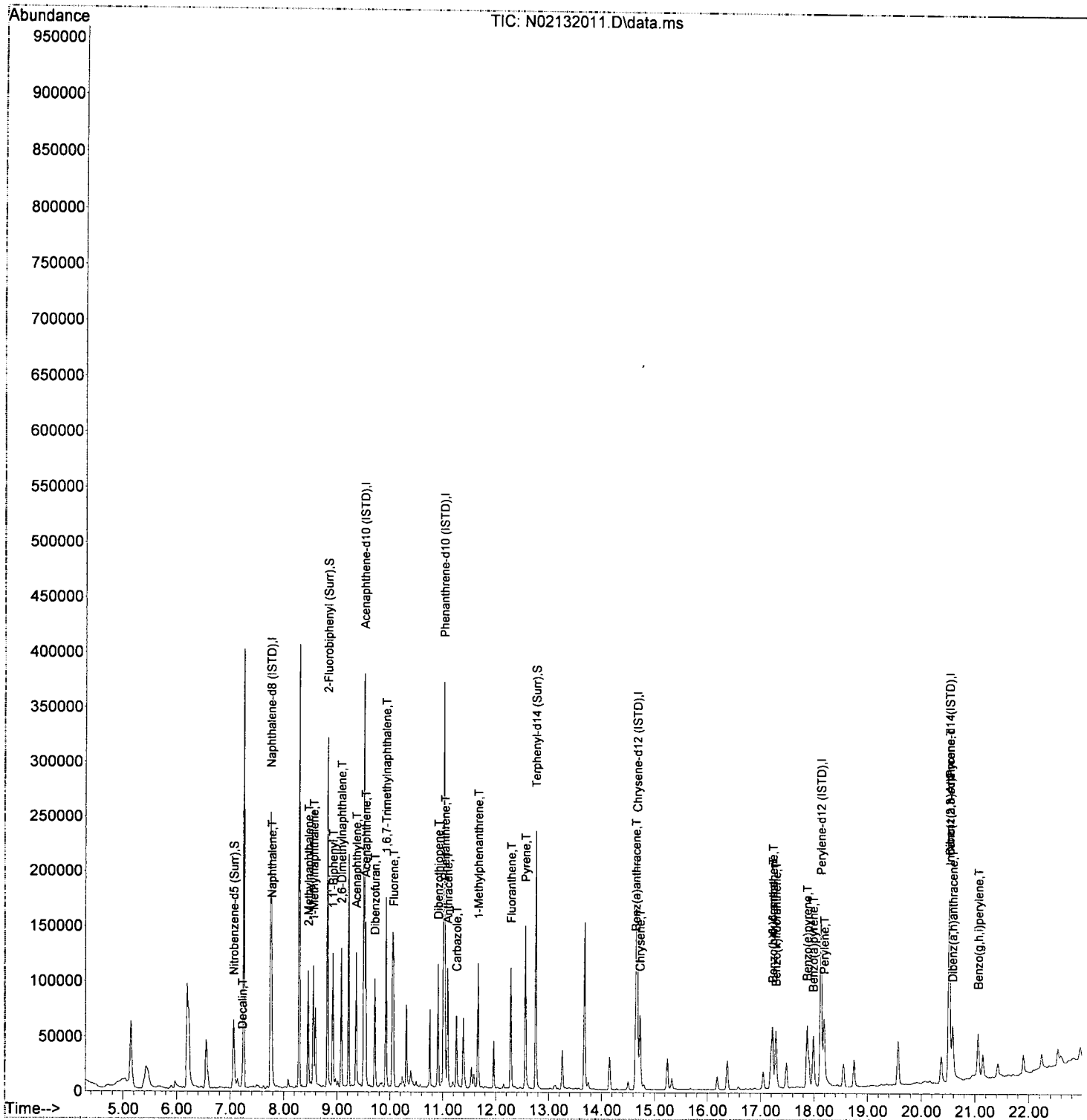
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	181260	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	117325	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.013	188	201024	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.668	240	152324	100.00	ng/ml	-0.02	
29) Perylene-d12 (ISTD)	18.124	264	139603	100.00	ng/ml	-0.02	
37) Dibenz(a,h)Anthracene-d...	20.514	292	112623	100.00	ng/ml	-0.02	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.061	82	45211	75.06	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.822	172	152191	86.95	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.352	160	3280	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.756	244	137369	85.75	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.224	138	1834	13.59	ng/ml		86
4) Naphthalene	7.772	128	65955	32.99	ng/ml		100
5) 2-Methylnaphthalene	8.460	142	49048	28.95	ng/ml		98
6) 1-Methylnaphthalene	8.559	142	48490	28.63	ng/ml		97
7) 1,1'-Biphenyl	8.921	154	59733	26.22	ng/ml		95
8) 2,6-Dimethylnaphthalene	9.084	156	44294	26.62	ng/ml		97
12) Acenaphthylene	9.364	152	79652	31.27	ng/ml		99
13) Acenaphthene	9.538	153	54412	32.62	ng/ml		98
14) Dibenzofuran	9.713	168	63869	30.56	ng/ml		97
15) 1,6,7-Trimethylnaphtha...	9.923	170	44344	31.69	ng/ml		96
16) Fluorene	10.063	166	52619	30.82	ng/ml		97
18) Dibenzothiopene	10.908	184	66516	31.64	ng/ml		96
19) Phenanthrene	11.036	178	76576	32.55	ng/ml		100
20) Anthracene	11.089	178	65276	29.83	ng/ml		99
21) Carbazole	11.258	167	46769	26.42	ng/ml		99
22) 1-Methylphenanthrene	11.666	192	51905	31.76	ng/ml		98
23) Fluoranthene	12.284	202	74316	31.36	ng/ml		96
25) Pyrene	12.558	202	76881	32.31	ng/ml		99
27) Benz(a)anthracene	14.644	228	51553	29.15	ng/ml		99
28) Chrysene	14.726	228	53711	32.09	ng/ml		100
30) Benzo(b)fluoranthene	17.221	252	50833	31.56	ng/ml		93
31) Benzo(k)fluoranthene	17.285	252	50203	31.65	ng/ml		92
32) Benzo(b+k)fluoranthene	17.221	252	106428	64.59	ng/ml		91
34) Benzo(e)pyrene	17.868	252	50929	31.27	ng/ml		98
35) Benzo(a)pyrene	17.984	252	43117	31.27	ng/ml		96
36) Perylene	18.188	252	54386	32.03	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	41836	30.12	ng/ml		79
39) Dibenz(a,h)anthracene	20.578	278	40058	30.69	ng/ml		84
40) Benzo(g,h,i)perylene	21.056	276	44280	30.05	ng/ml		97

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

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132011.D
 Acq On : 13 Feb 2020 17:45
 Operator : JK/ AMS/ DTH
 Sample : 0020423-BS1
 Misc : 1x, 8270D PAH LL
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:41 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132012.D
 Acq On : 13 Feb 2020 18:17
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01@1000
 Misc : 1000x, 8270D PAH LL
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:44 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

RM

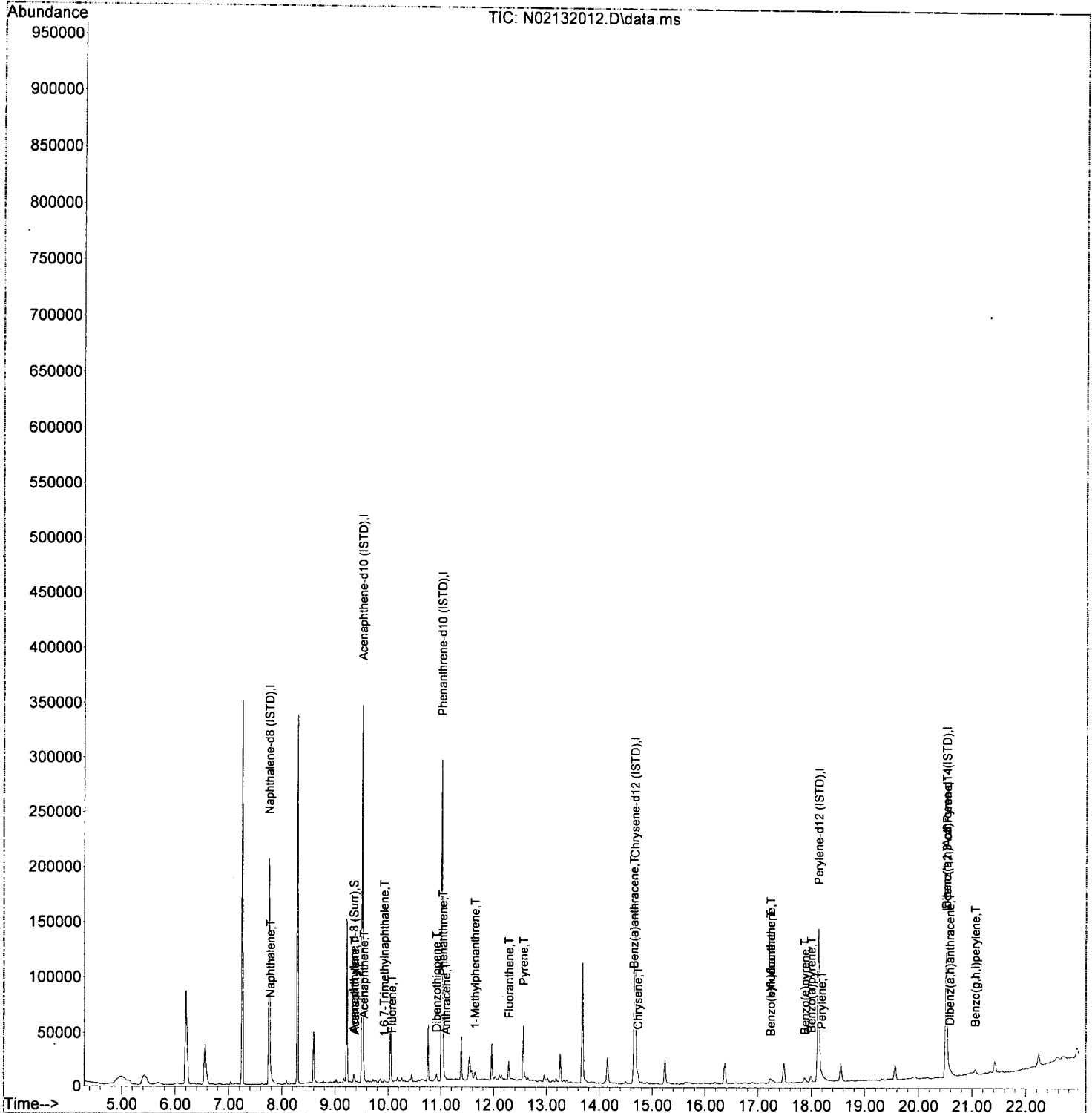
not 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	169053	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	108761	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	169107	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	134423	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.130	264	128170	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthracene-d...	20.514	292	107077	100.00	ng/ml	-0.02
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.102	82	72	0.13	ng/ml	0.03
10) 2-Fluorobiphenyl (Surr)	8.827	172	200	0.12	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	4176	0.46	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.762	244	230	0.16	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		
4) Naphthalene	7.778	128	2944	1.58	ng/ml	95
5) 2-Methylnaphthalene	8.466	142	563	N.D.		
6) 1-Methylnaphthalene	8.565	142	364	N.D.		
7) 1,1'-Biphenyl	8.932	154	257	N.D.		
8) 2,6-Dimethylnaphthalene	9.090	156	375	N.D.		
12) Acenaphthylene	9.369	152	2074	0.88	ng/ml	94
13) Acenaphthene	9.538	153	3863	2.50	ng/ml	97
14) Dibenzofuran	9.719	168	397	N.D.		
15) 1,6,7-Trimethylnaphtha...	9.923	170	625	0.48	ng/ml	88
16) Fluorene	10.069	166	2207	1.39	ng/ml	99
18) Dibenzothiopene	10.914	184	2004	1.13	ng/ml	97
19) Phenanthrene	11.036	178	16762	8.47	ng/ml	98
20) Anthracene	11.095	178	1516	0.82	ng/ml	91
21) Carbazole	11.270	167	173	N.D.		
22) 1-Methylphenanthrene	11.643	192	1018	0.74	ng/ml	75
23) Fluoranthene	12.284	202	11892	5.96	ng/ml	96
25) Pyrene	12.563	202	15624	7.44	ng/ml	98
27) Benz(a)anthracene	14.650	228	5737	3.68	ng/ml	69
28) Chrysene	14.726	228	6775	4.59	ng/ml	92
30) Benzo(b)fluoranthene	17.232	252	5918	4.00	ng/ml	92
31) Benzo(k)fluoranthene	17.232	252	7249	4.98	ng/ml	90
32) Benzo(b+k)fluoranthene	17.232	252	8178	5.41	ng/ml	90
34) Benzo(e)pyrene	17.873	252	4475	2.99	ng/ml	98
35) Benzo(a)pyrene	17.990	252	5884	4.65	ng/ml	95
36) Perylene	18.188	252	1869	1.20	ng/ml	96
38) Indeno(1,2,3-cd)Pyrene	20.520	276	4287	3.25	ng/ml	90
39) Dibenz(a,h)anthracene	20.578	278	614	0.49	ng/ml	85
40) Benzo(g,h,i)perylene	21.056	276	5257	3.75	ng/ml	96

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132012.D
Acq On : 13 Feb 2020 18:17
Operator : JK/ AMS/ DTH
Sample : AOB0288-01@1000
Misc : 1000x, 8270D PAH LL
ALS Vial : 6 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:44 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

DTH 2/14/20

MOS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	170423	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	114449	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.013	188	203638	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.673	240	166155	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.130	264	161474	100.00	ng/ml	-0.01	
37) Dibenz(a,h)Anthracene-d...	20.520	292	125231	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.079	82	449	0.79	ng/ml	0.01	
10) 2-Fluorobiphenyl (Surr)	8.827	172	1197	0.70	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.352	160	3459	0.05	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.756	244	1549	0.89	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.778	128	16902	8.99	ng/ml		99
5) 2-Methylnaphthalene	8.466	142	3900	2.45	ng/ml		97
6) 1-Methylnaphthalene	8.565	142	1926	1.21	ng/ml		90
7) 1,1'-Biphenyl	8.926	154	1384	0.65	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.090	156	2184	1.40	ng/ml		96
12) Acenaphthylene	9.369	152	13307	5.36	ng/ml		95
13) Acenaphthene	9.538	153	25755	15.83	ng/ml		98
14) Dibenzofuran	9.719	168	2345	1.15	ng/ml		68
15) 1,6,7-Trimethylnaphtha...	9.923	170	4223	3.09	ng/ml		87
16) Fluorene	10.063	166	14709	8.83	ng/ml		97
18) Dibenzothiopene	10.914	184	15024	7.05	ng/ml		97
19) Phenanthrene	11.036	178	127397	53.46	ng/ml		99
20) Anthracene	11.095	178	10152	4.58	ng/ml		95
21) Carbazole	11.264	167	1354	0.75	ng/ml#		30
22) 1-Methylphenanthrene	11.643	192	9376	5.66	ng/ml		79
23) Fluoranthene	12.284	202	98413	40.99	ng/ml		97
25) Pyrene	12.563	202	126655	48.79	ng/ml		99
27) Benz(a)anthracene	14.650	228	44534	23.09	ng/ml		70
28) Chrysene	14.732	228	55088	30.18	ng/ml		95
30) Benzo(b)fluoranthene	17.226	252	47295	25.38	ng/ml		94
31) Benzo(k)fluoranthene	17.226	252	60845	33.17	ng/ml		92
32) Benzo(b+k)fluoranthene	17.226	252	67636	35.49	ng/ml		92
34) Benzo(e)pyrene	17.873	252	34903	18.53	ng/ml		99
35) Benzo(a)pyrene	17.990	252	46918	29.42	ng/ml		97
36) Perylene	18.188	252	13475	6.86	ng/ml		98
38) Indeno(1,2,3-cd)Pyrene	20.525	276	31231	20.22	ng/ml		80
39) Dibenz(a,h)anthracene	20.578	278	4077	2.81	ng/ml		94
40) Benzo(g,h,i)perylene	21.056	276	38491	23.49	ng/ml		97

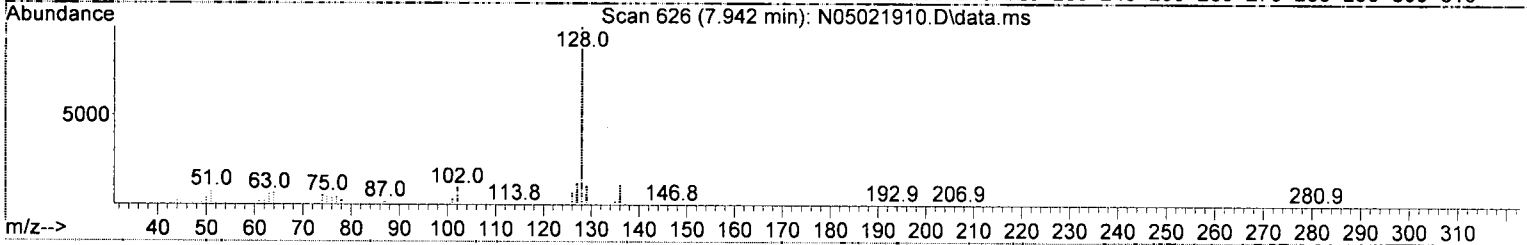
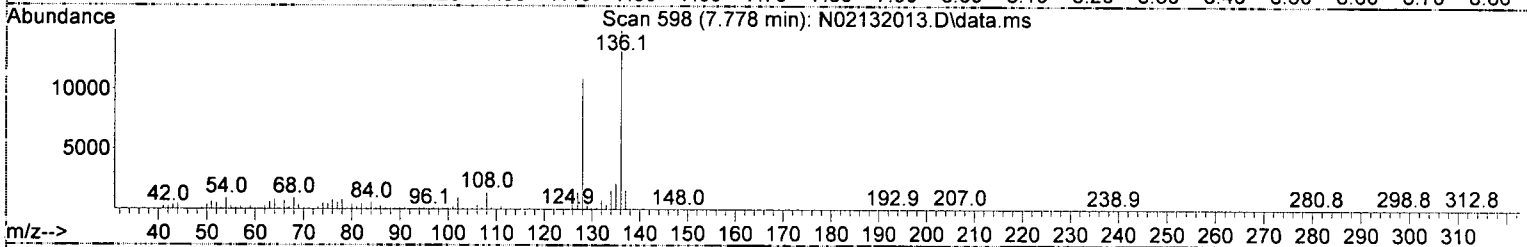
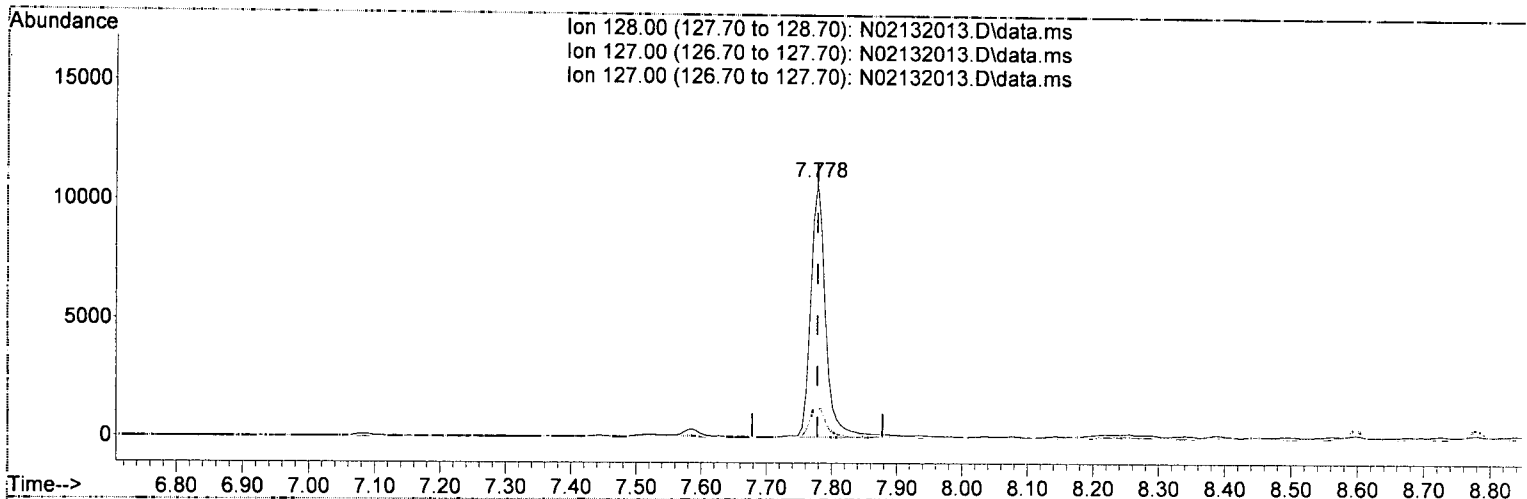
MI HA MOS

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(4) Naphthalene (T)

7.778min (-0.000) 8.99 ng/ml

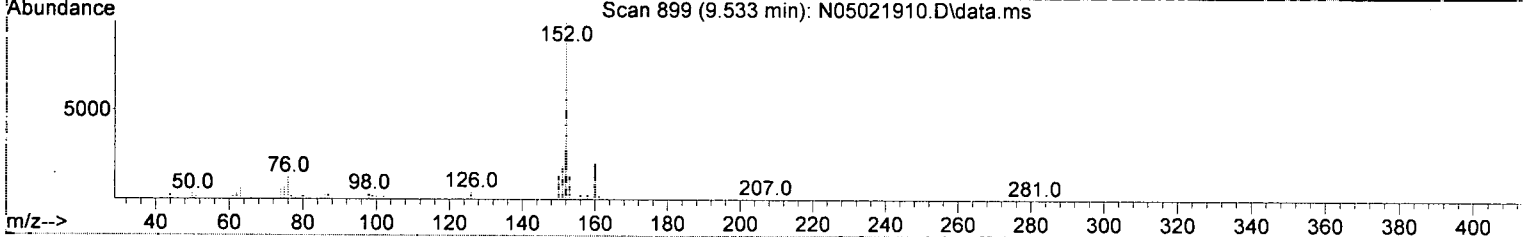
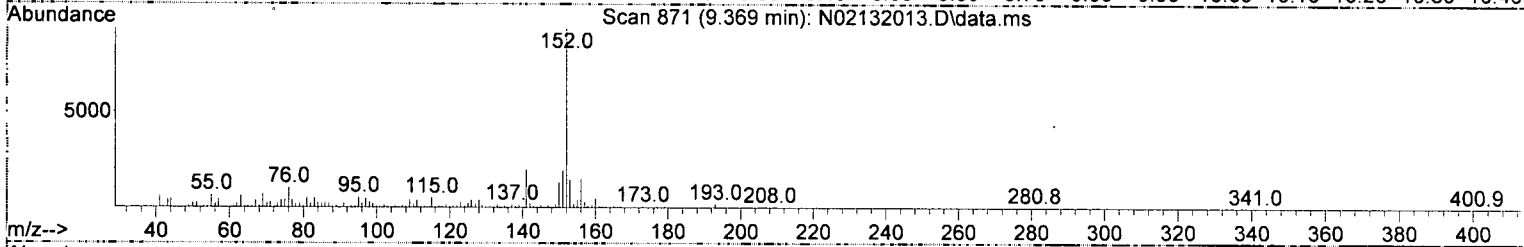
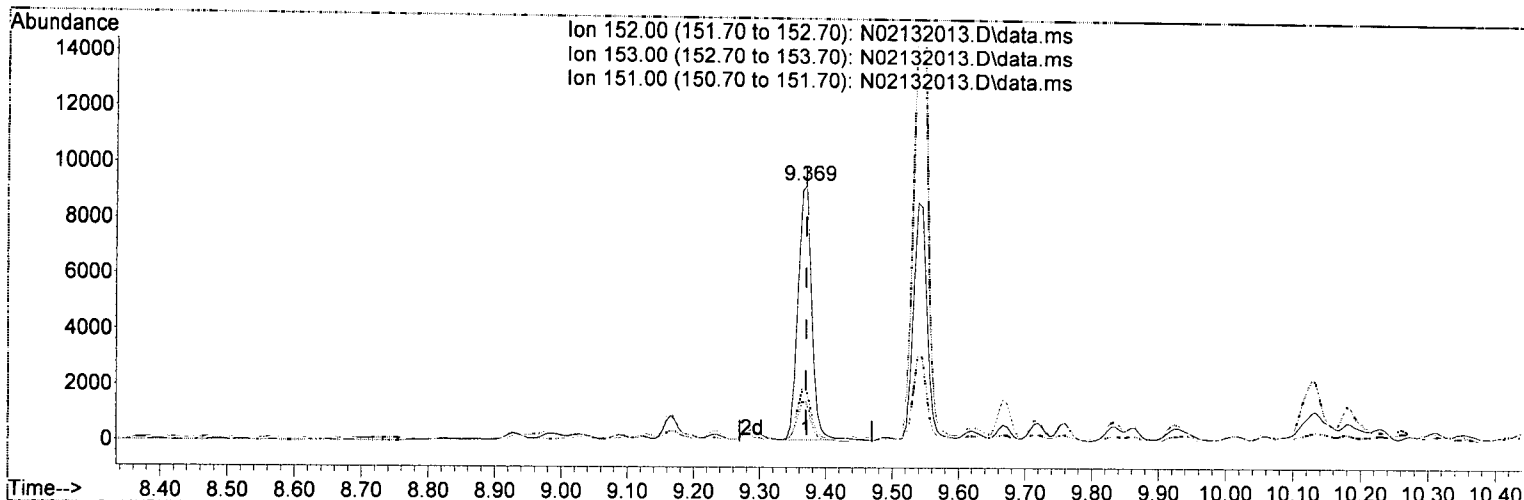
response 16902

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.12
127.00	12.60	13.12
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : N02132013.D
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 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
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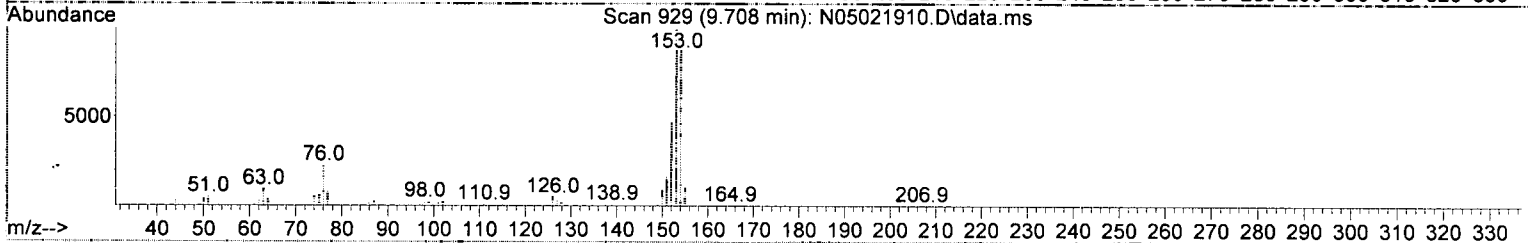
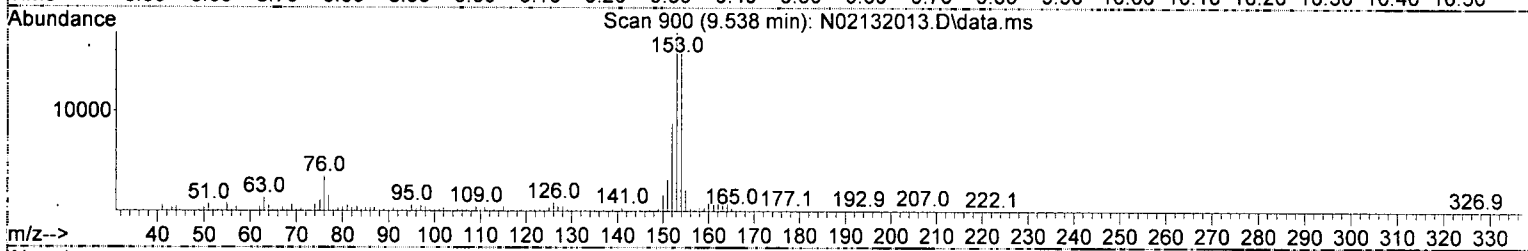
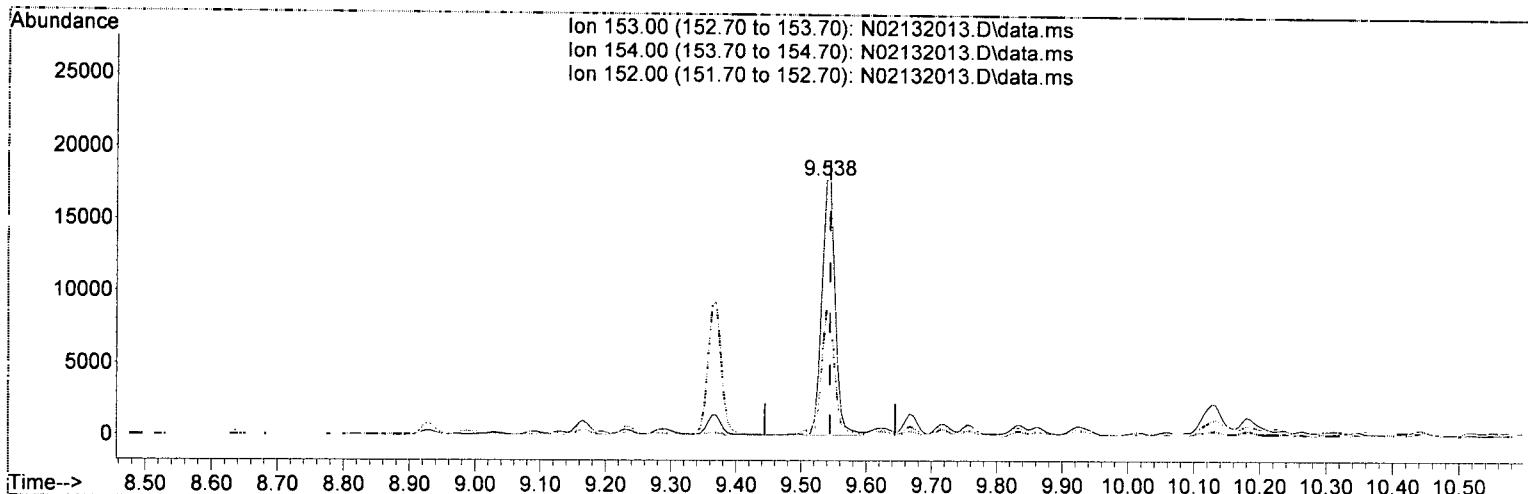
TIC: N02132013.D\data.ms

(12) Acenaphthylene (T)		
Retention Time (min)	Concentration (ng/ml)	Response
9.369min (-0.000)	5.36	13307
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.57
151.00	19.30	20.73
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
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 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(13) Acenaphthene (T)

9.538min (-0.006) 15.83 ng/ml

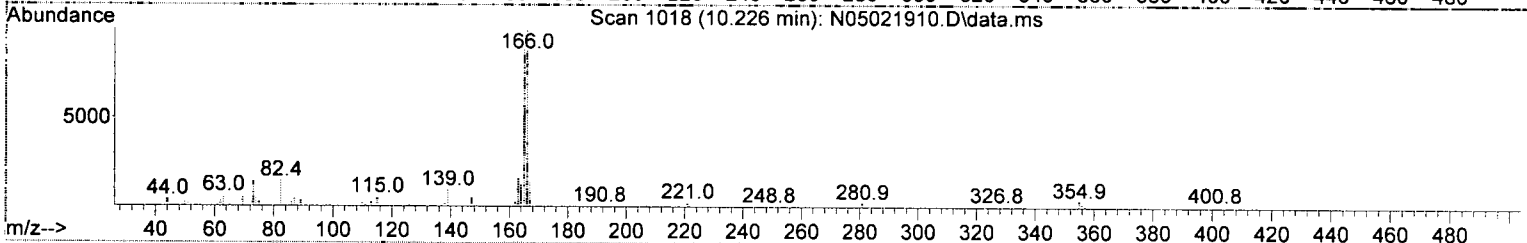
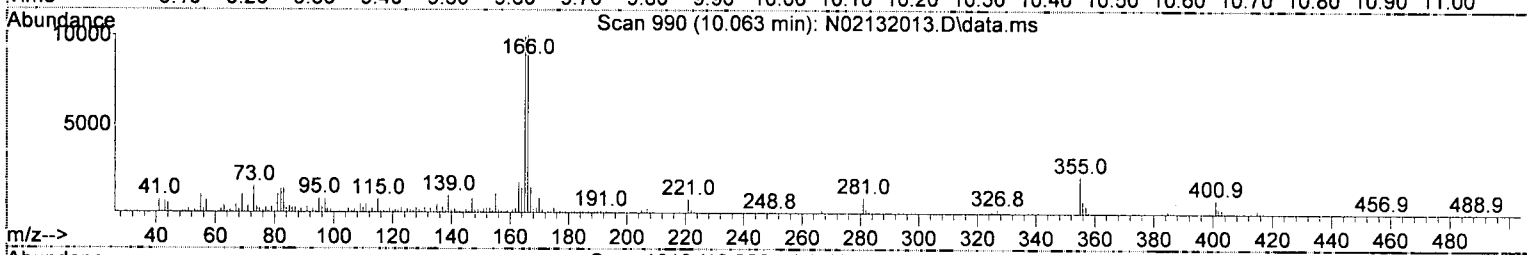
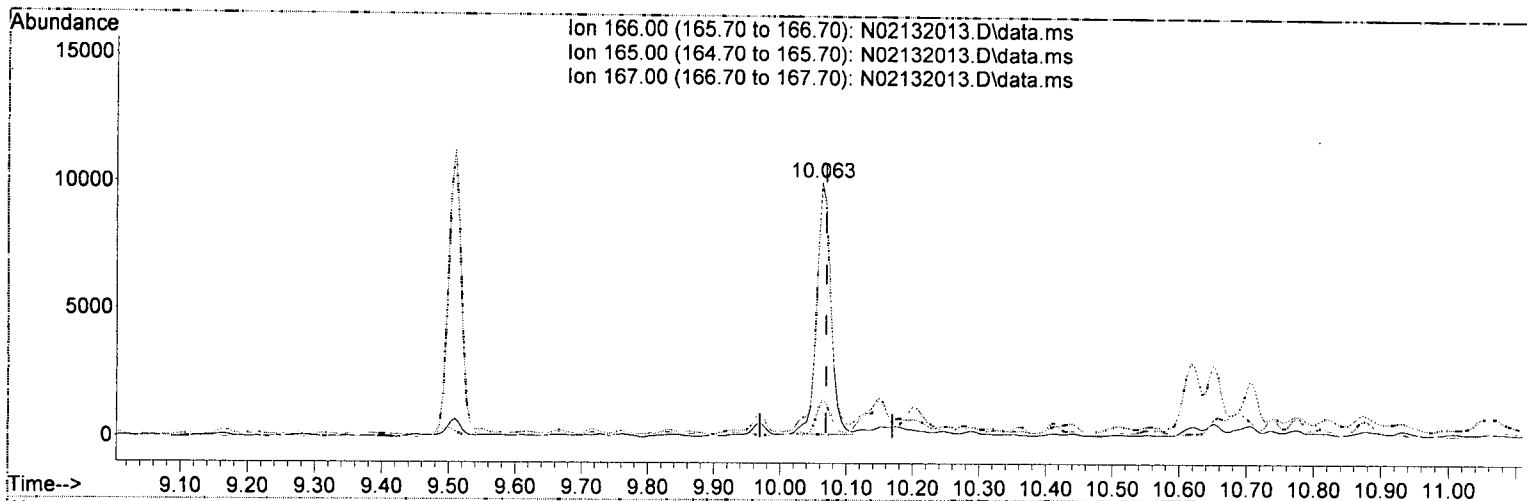
response 25755

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	92.79
152.00	46.80	48.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
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 QLast Update : Fri Dec 20 12:46:03 2019
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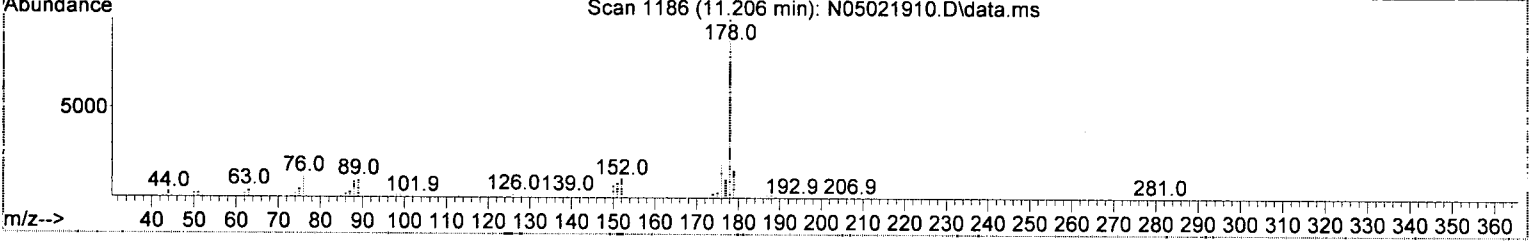
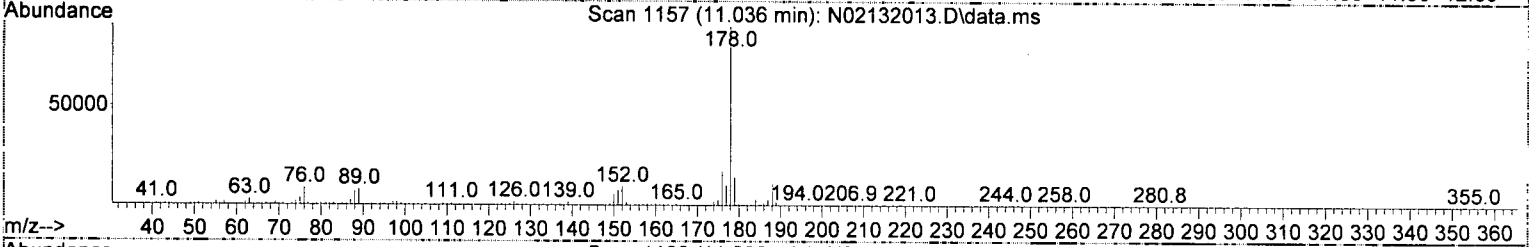
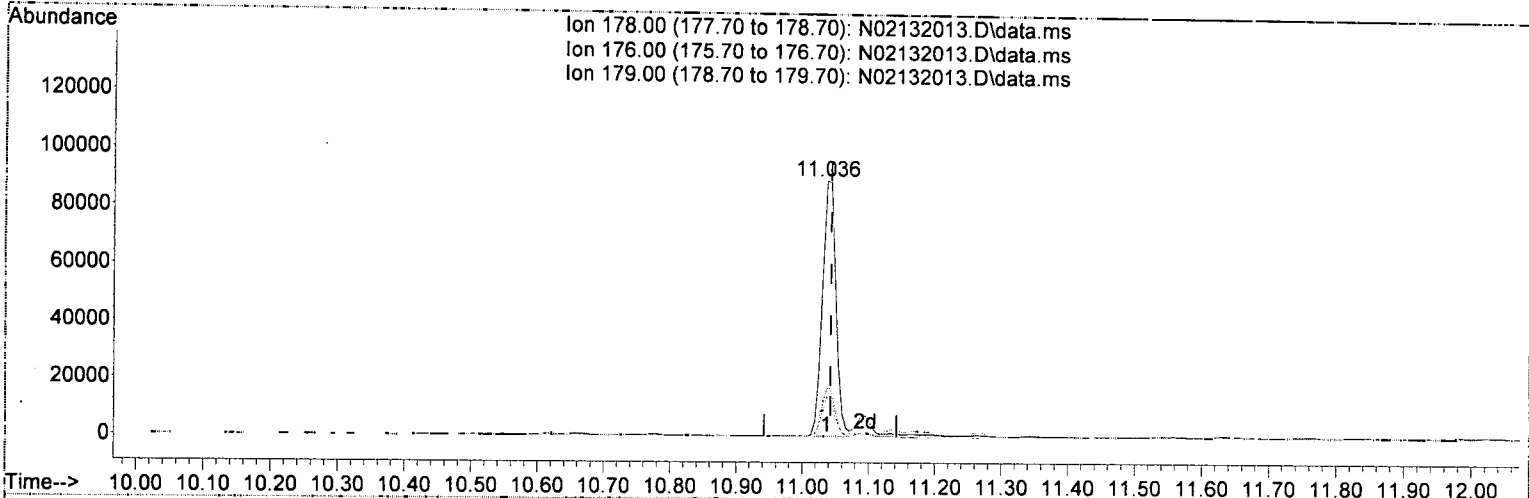
TIC: N02132013.D\data.ms

(16) Fluorene (T)		
10.063min (-0.006)	8.83 ng/ml	
response	14709	
Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	98.64
167.00	13.60	14.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
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 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
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TIC: N02132013.D\data.ms

(19) Phenanthrene (T)

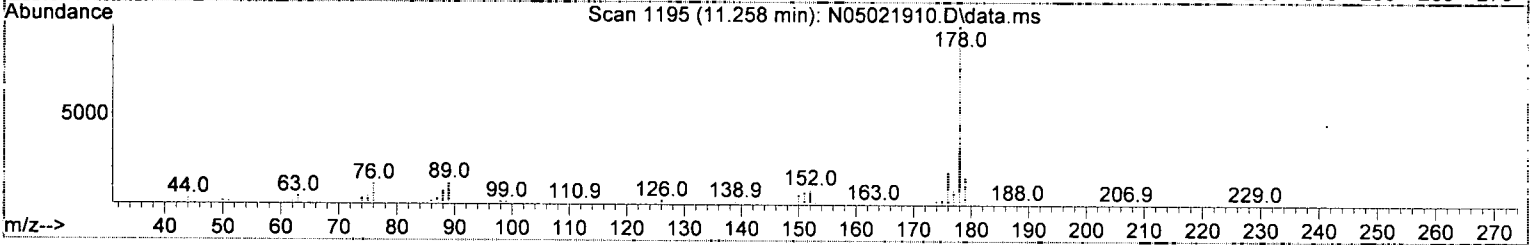
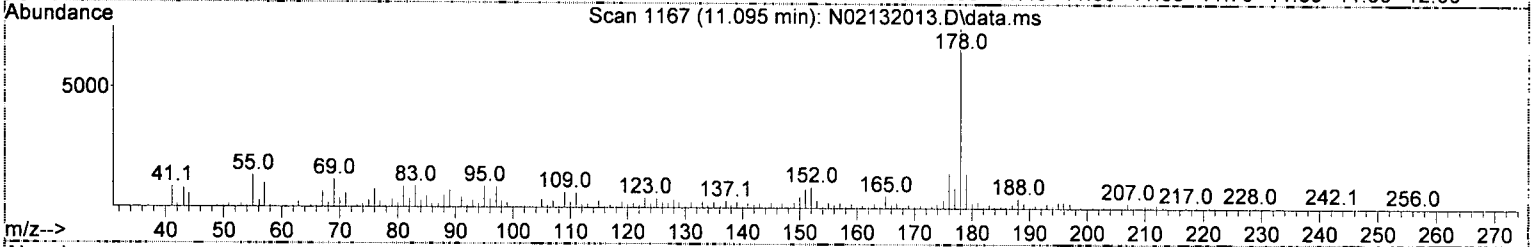
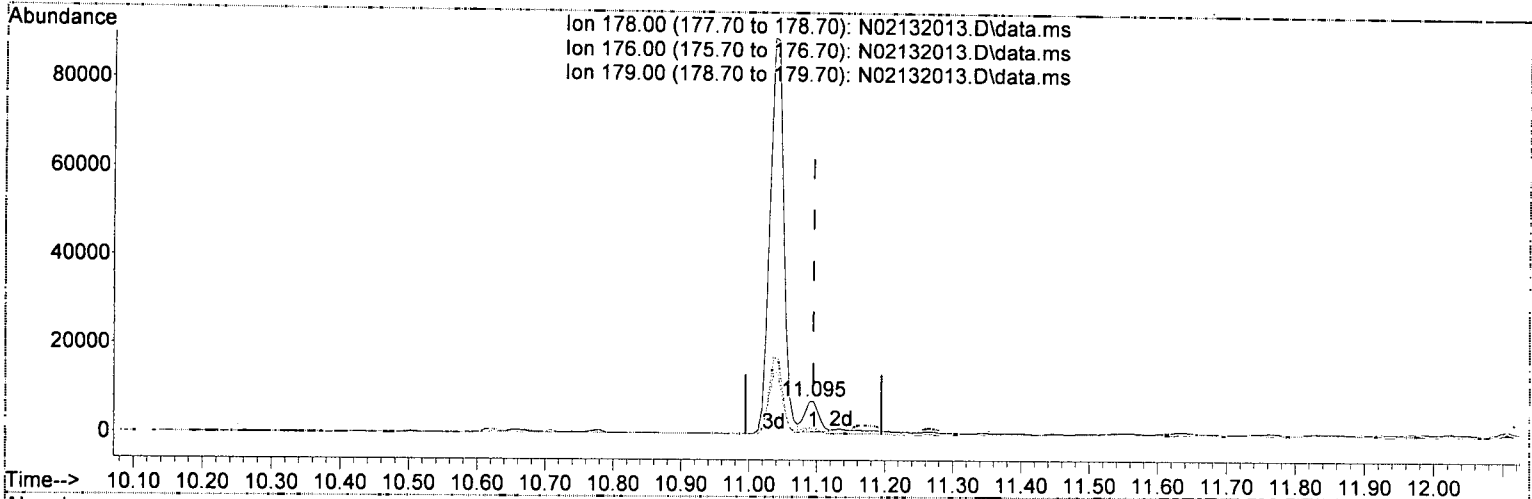
11.036min (-0.006) 53.46 ng/ml

response	127397
Ion	Exp% Act%
178.00	100.00 100.00
176.00	19.00 19.19
179.00	15.10 15.76
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(20) Anthracene (T)

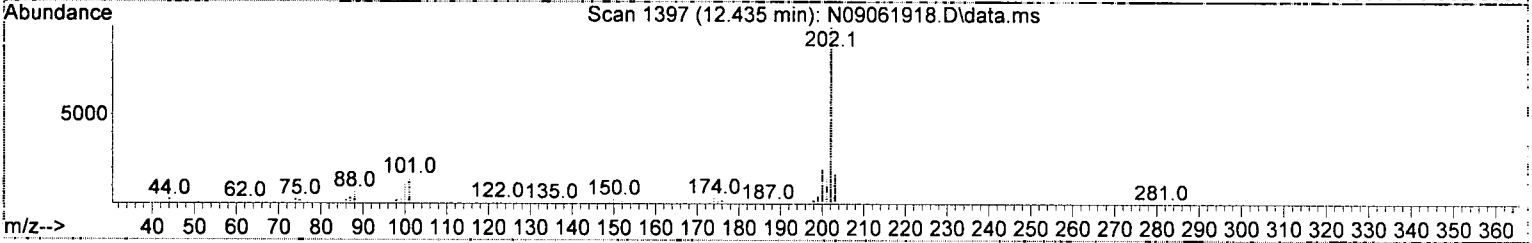
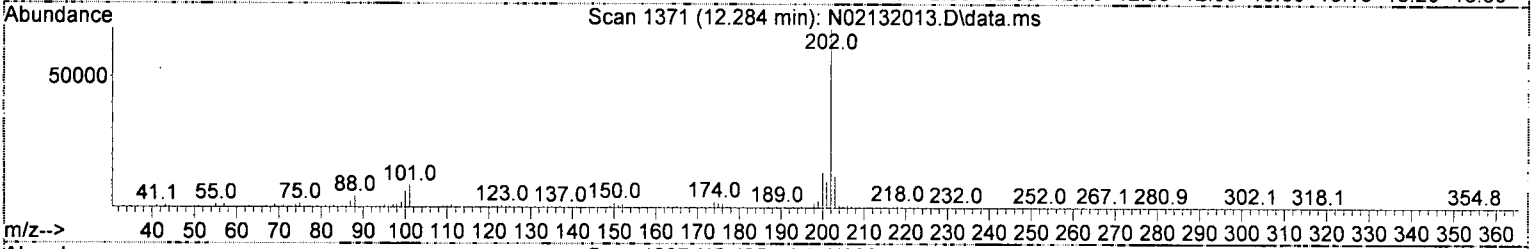
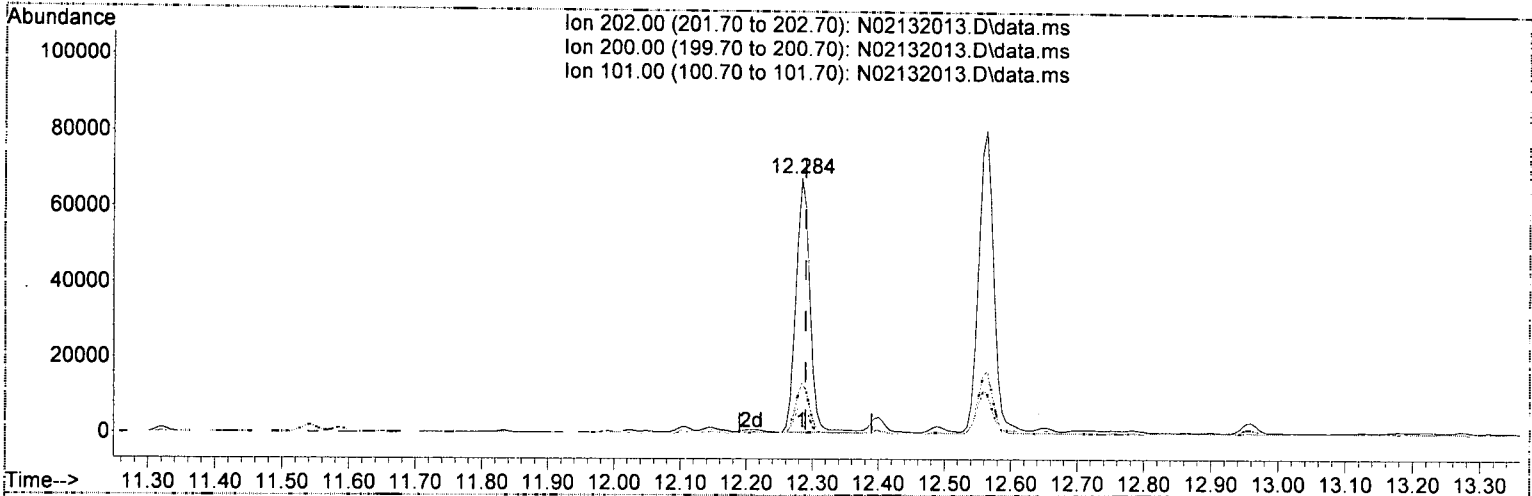
11.095min (-0.000) 4.58 ng/ml *J*

response	10152	
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	19.39
179.00	15.30	19.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 40.99 ng/ml

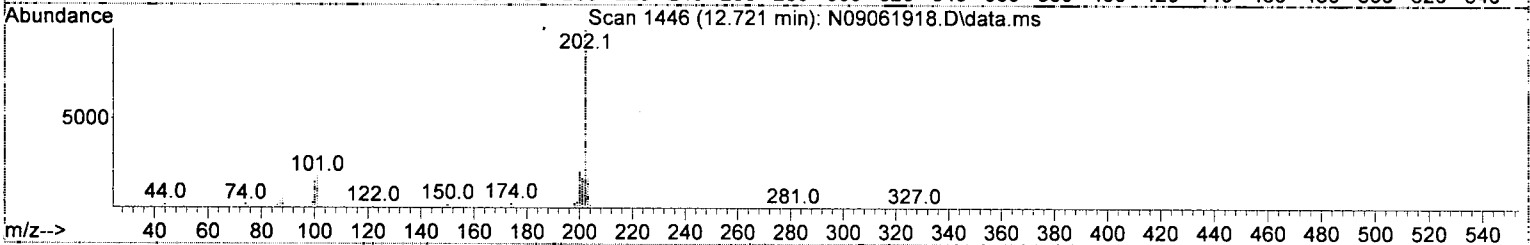
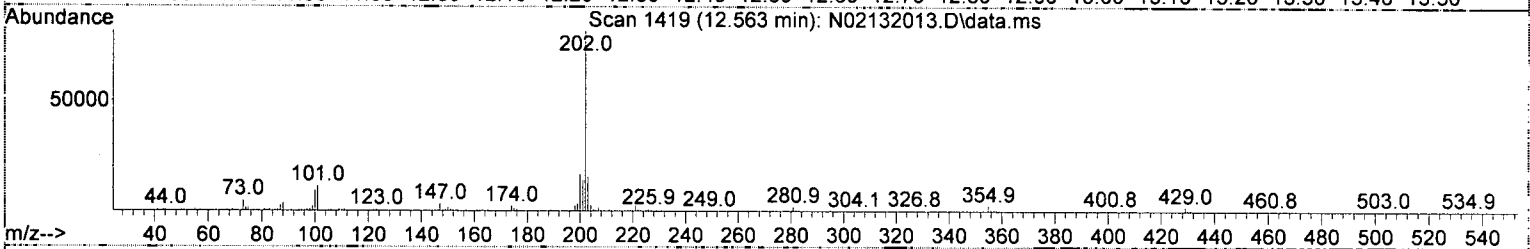
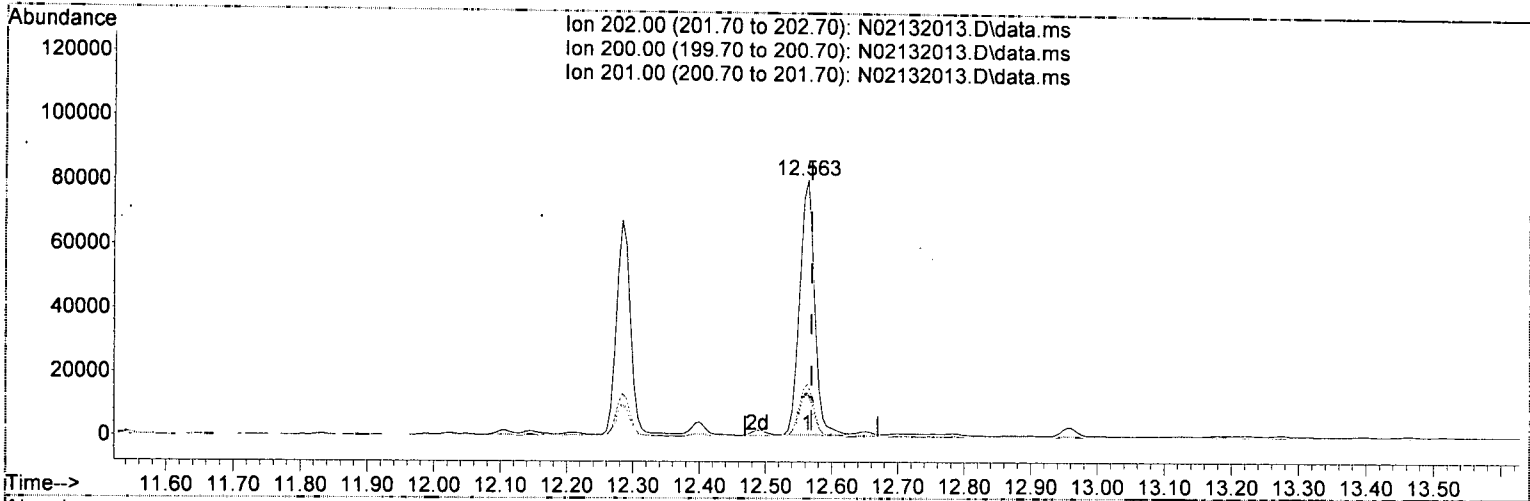
response 98413

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.76
101.00	15.30	12.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
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 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(25) Pyrene (T)

12.563min (-0.006) 48.79 ng/ml

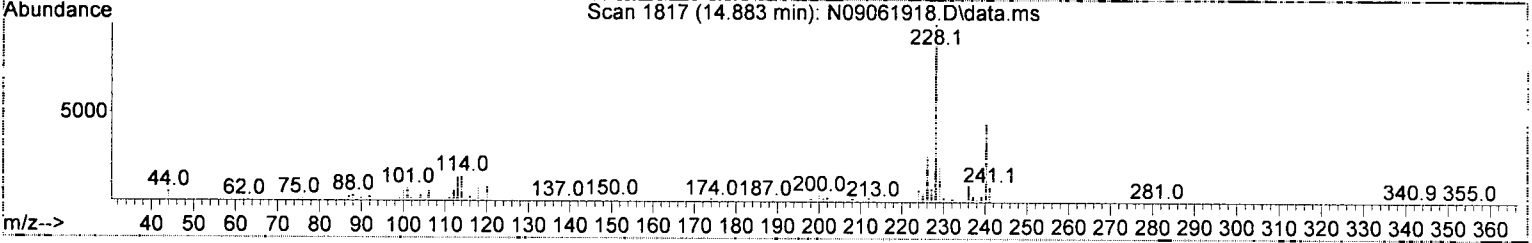
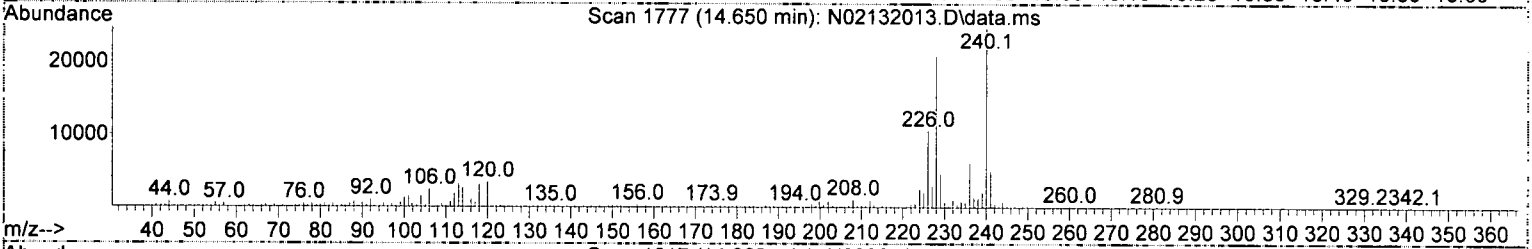
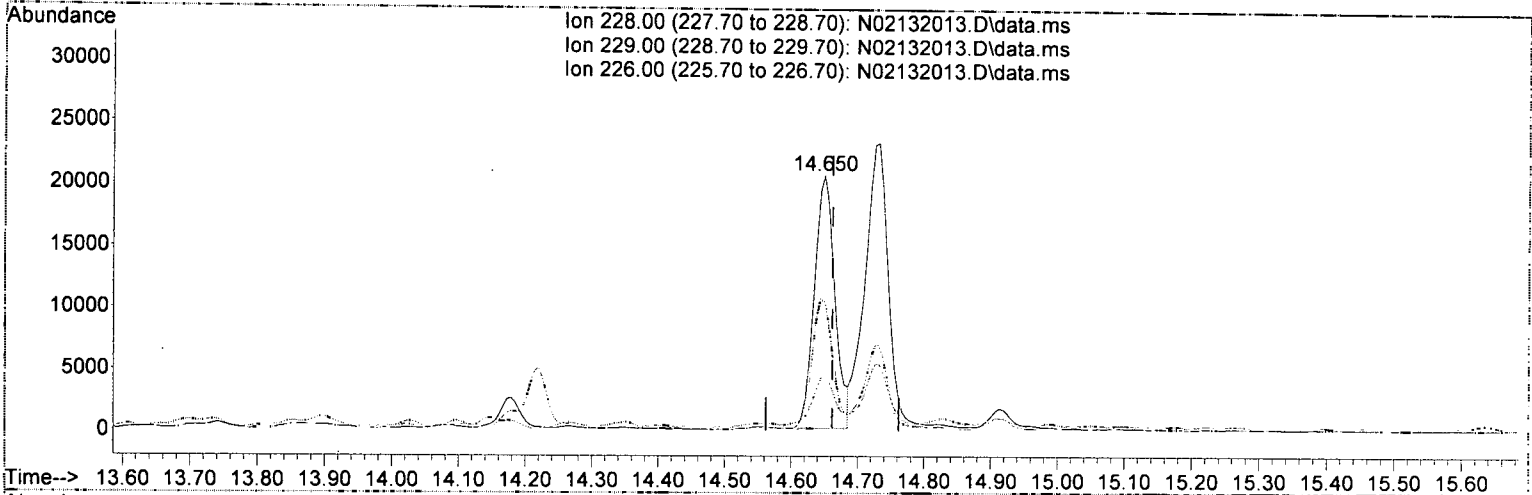
response 126655

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.57
201.00	16.80	17.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



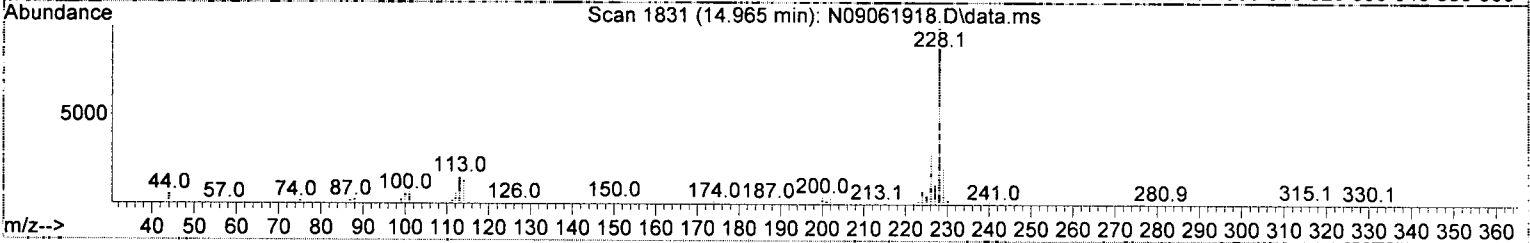
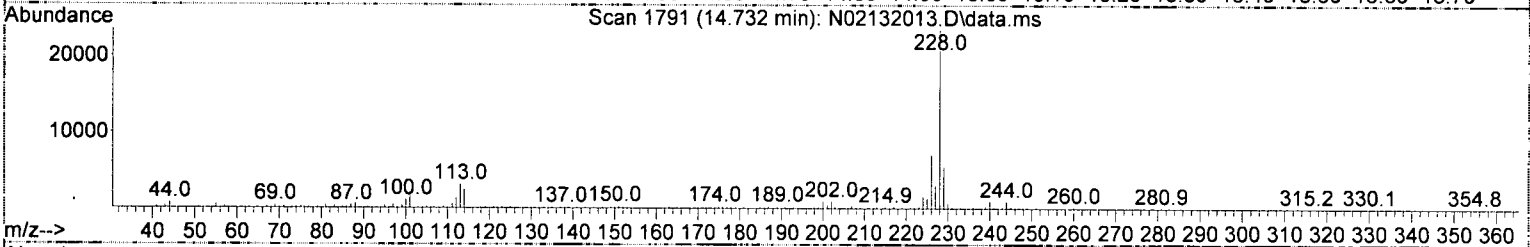
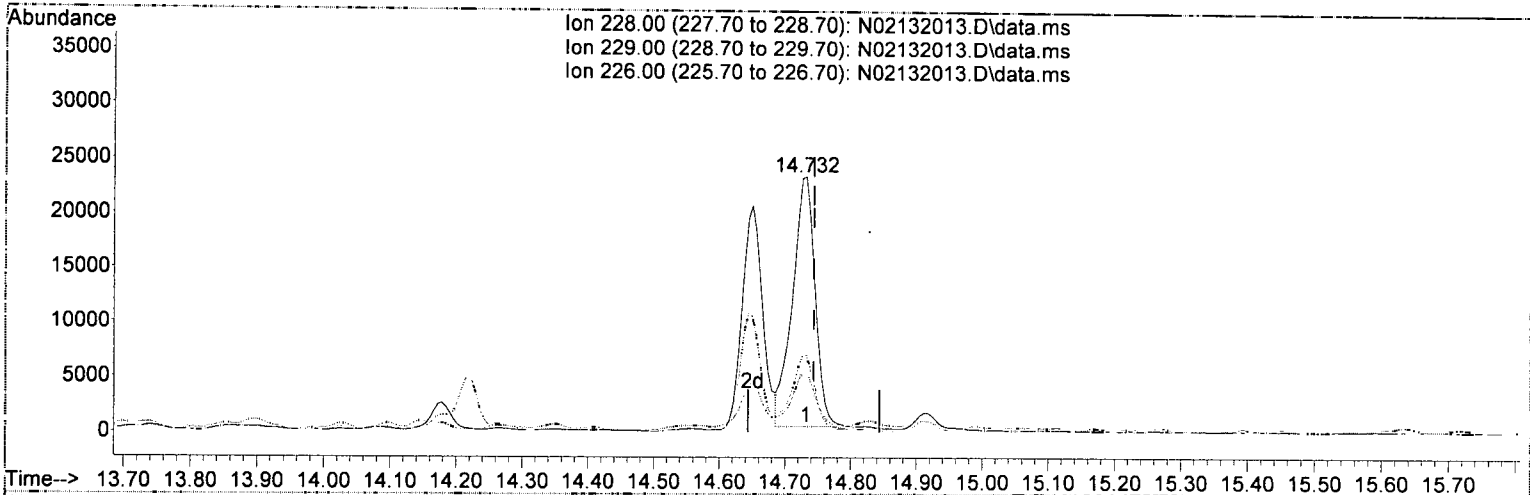
TIC: N02132013.D\data.ms

(27) Benz(a)anthracene (T)		
14.650min (-0.012)	23.09 ng/ml	
response	44534	
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	22.02
226.00	26.20	50.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



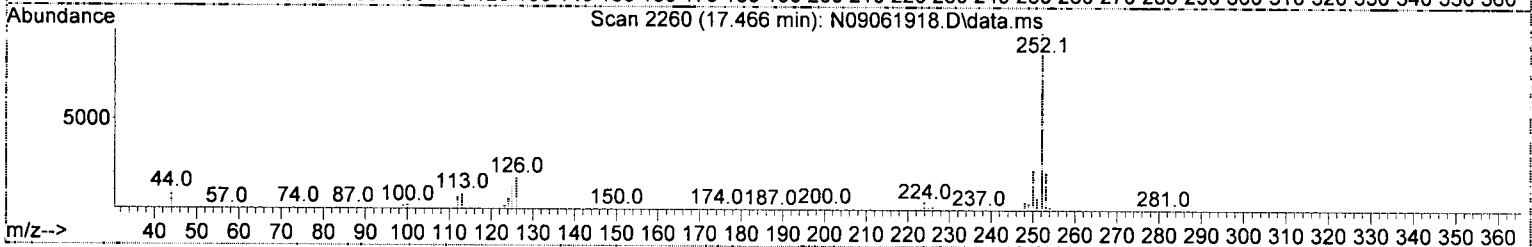
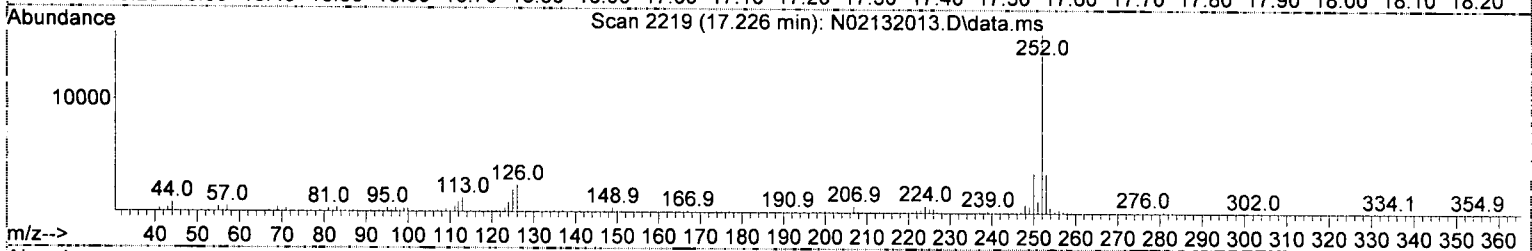
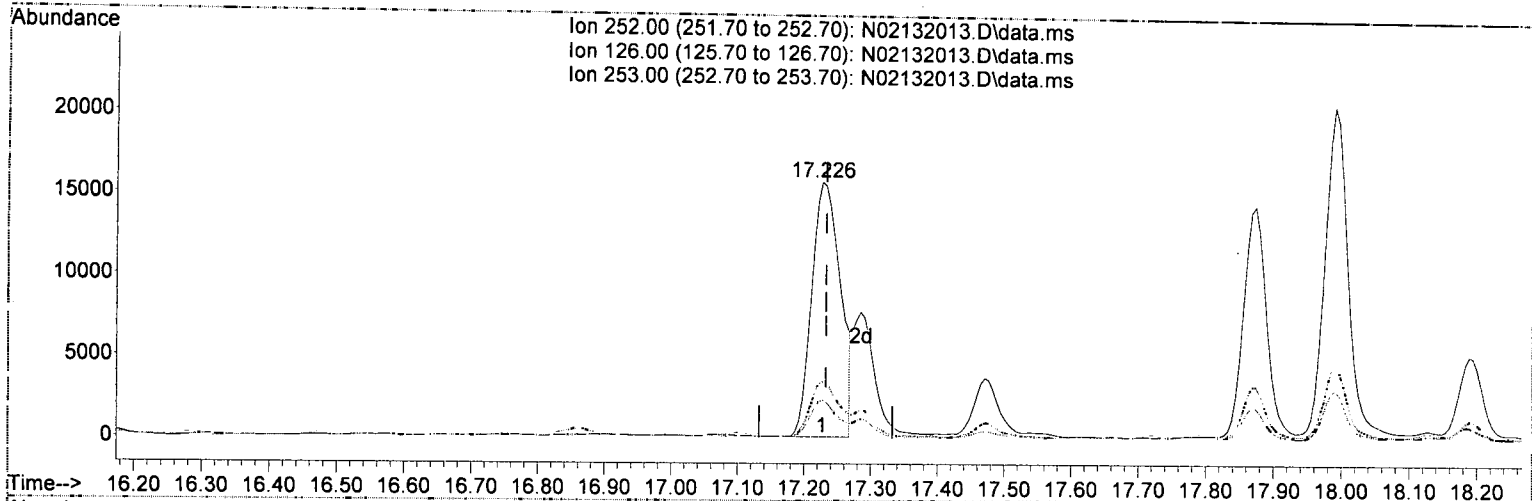
TIC: N02132013.D\data.ms

(28) Chrysene (T)		
14.732min (-0.012)	30.18 ng/ml	
response	55088	
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	23.36
226.00	28.60	29.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
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 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



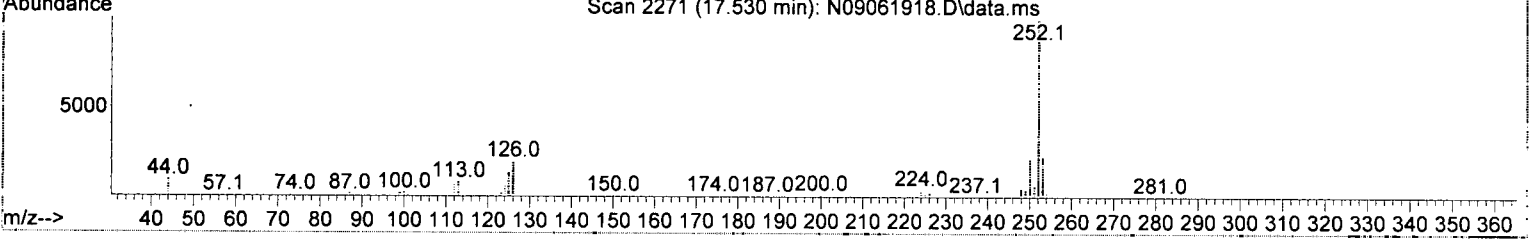
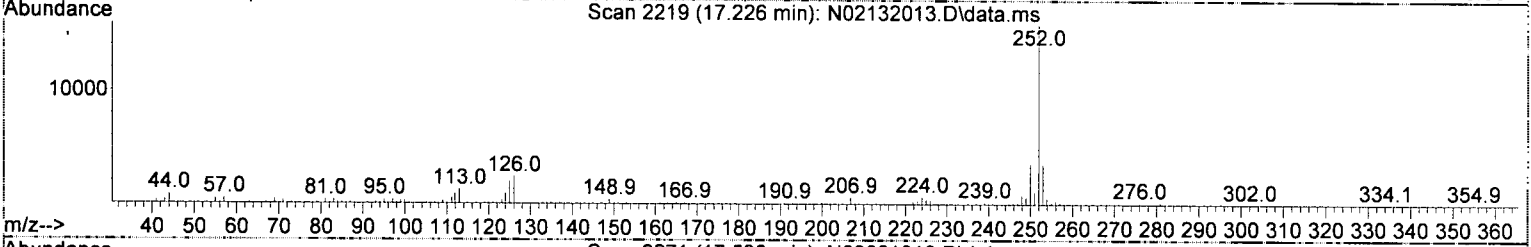
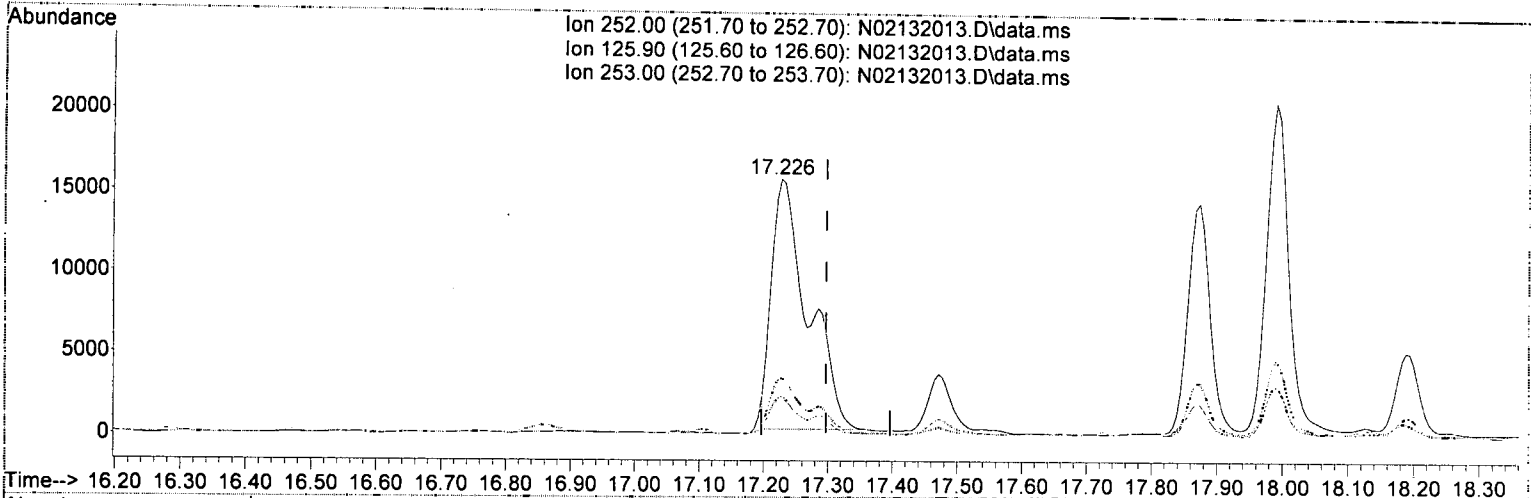
TIC: N02132013.D\data.ms

(30) Benzo(b)fluoranthene (T)		
Retention Time	Concentration	Response
17.226min (-0.006)	25.38 ng/ml	47295
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	15.16
253.00	21.10	22.30
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : N02132013.D
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 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
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 Response via : Initial Calibration
 InstName : SV-GCMS14



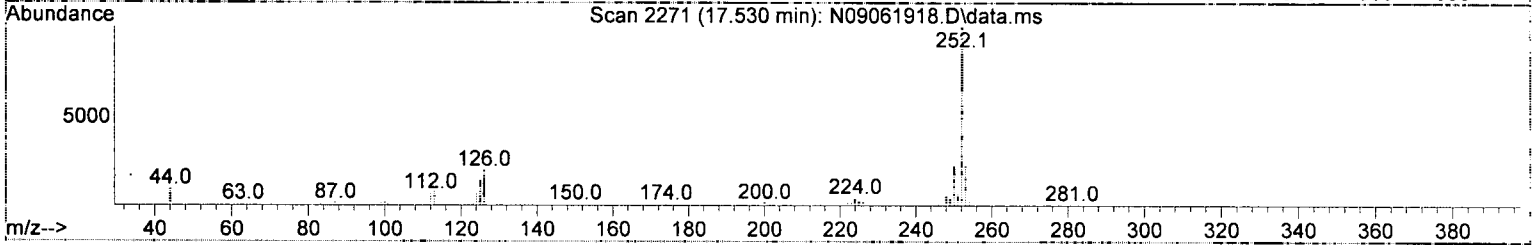
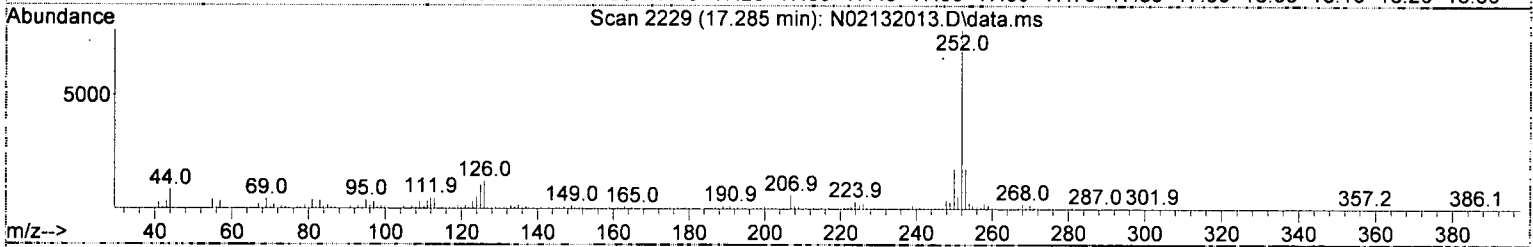
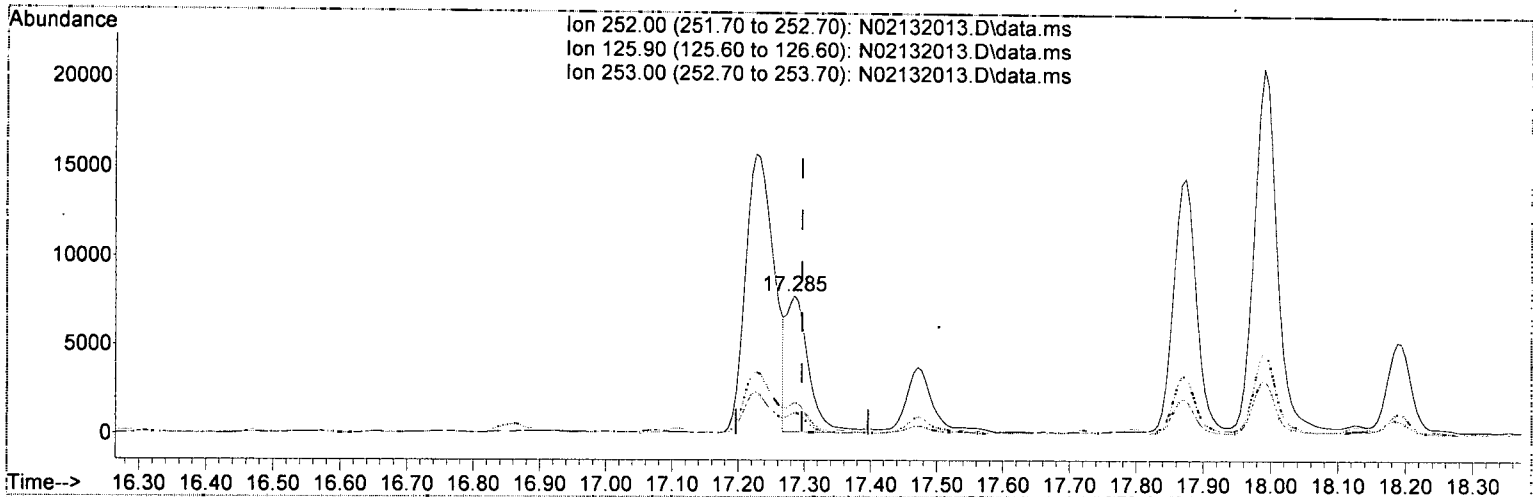
TIC: N02132013.D\data.ms

(31) Benzo(k)fluoranthene (F)		
17.226min (-0.070)	33.17 ng/ml	<i>MT</i>
response	60845	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.16
253.00	21.50	22.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.285min (-0.012) 9.62 ng/ml (m)

response 17653

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.74
253.00	21.50	22.95
0.00	0.00	0.00

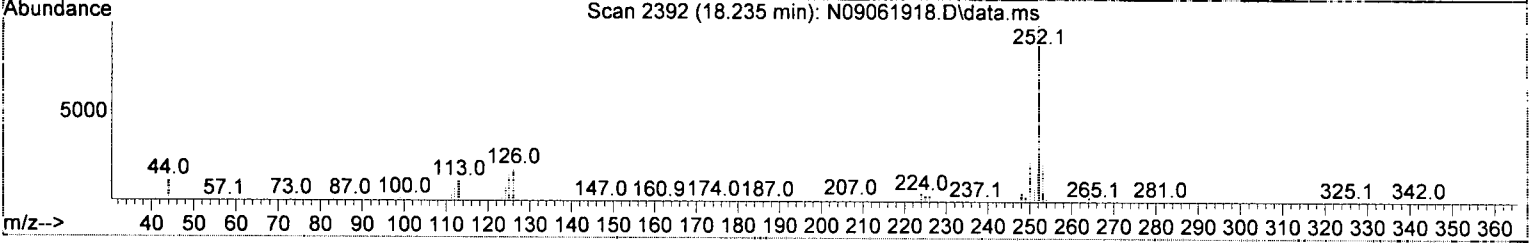
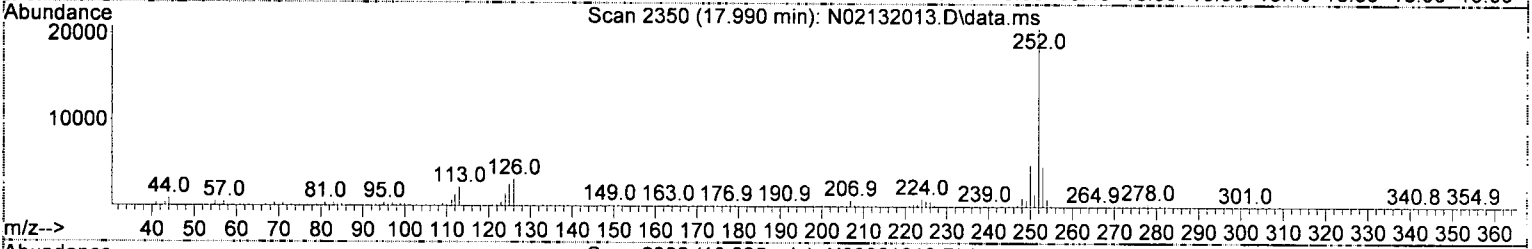
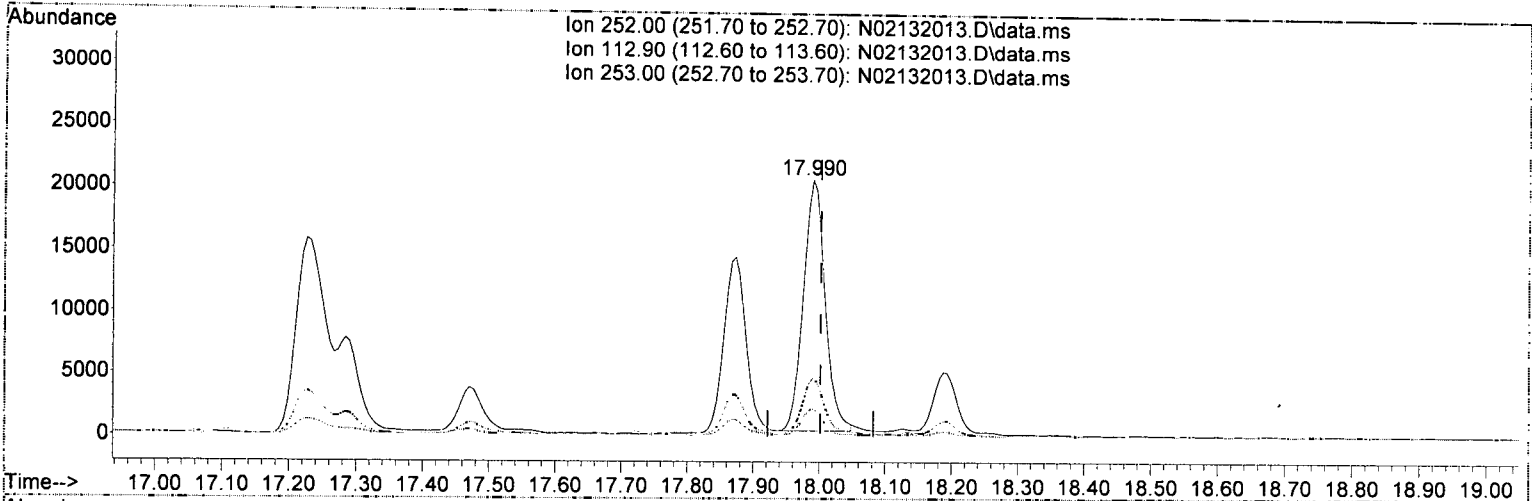
mos
DTH 2/14/20

J

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



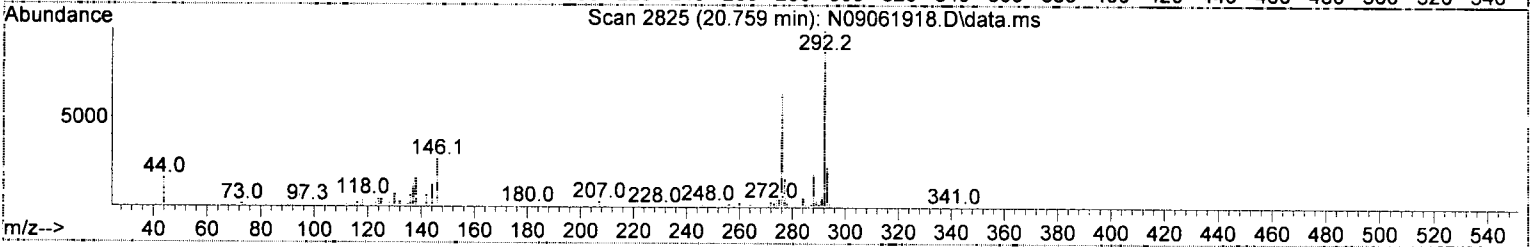
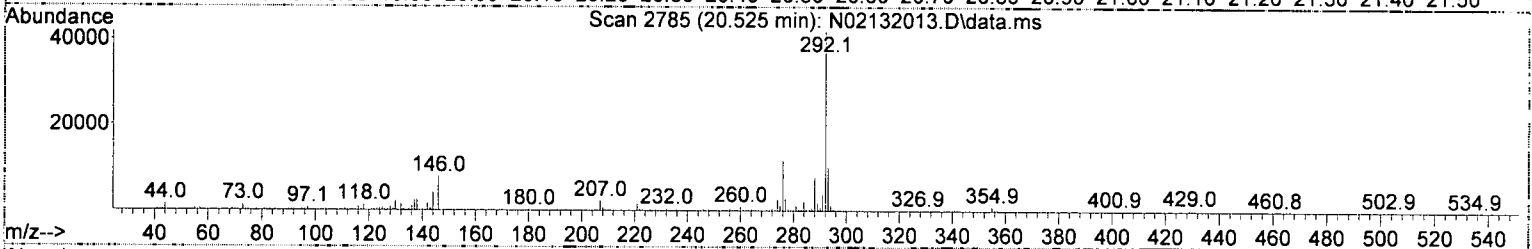
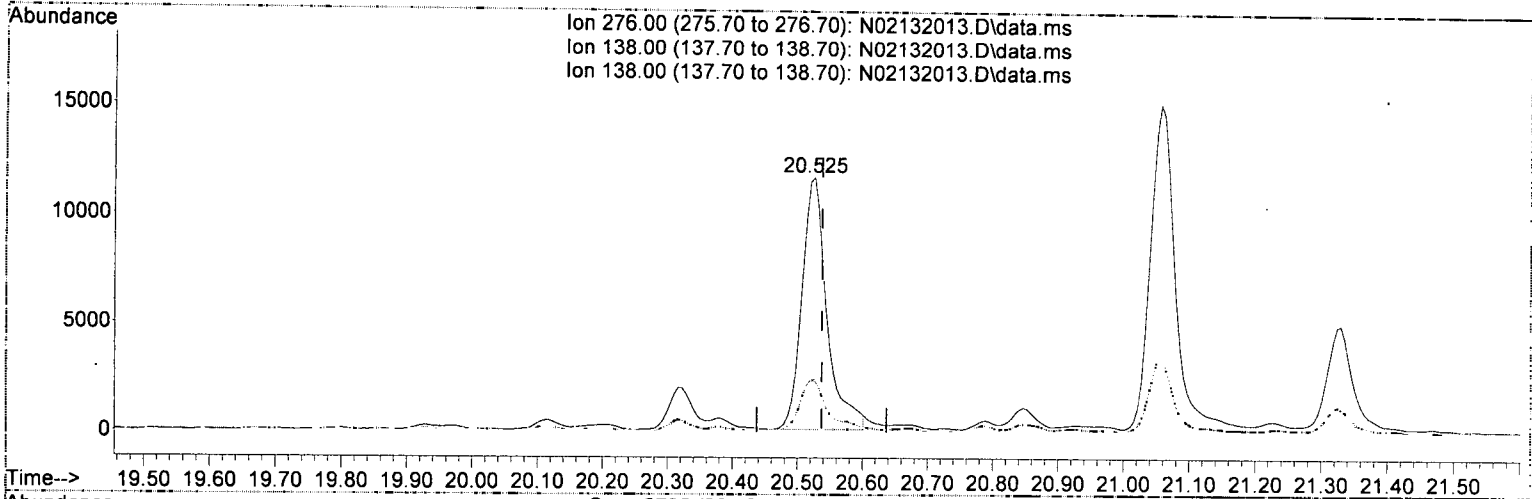
TIC: N02132013.D\data.ms

(35) Benzo(a)pyrene (T)		
Retention Time	Concentration	Response
17.990min (-0.012)	29.42 ng/ml	46918
Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	10.53
253.00	21.90	22.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.525min (-0.012) 20.22 ng/ml

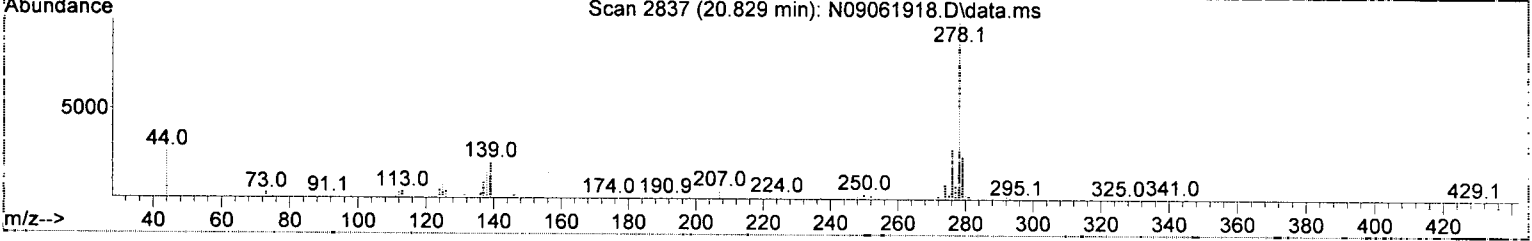
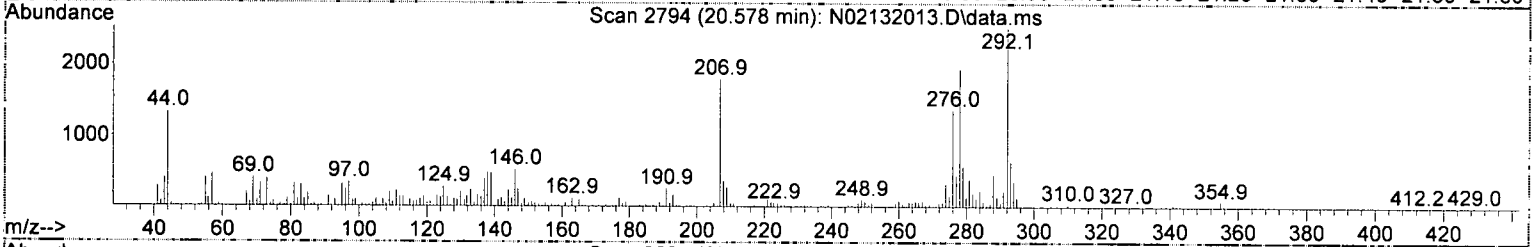
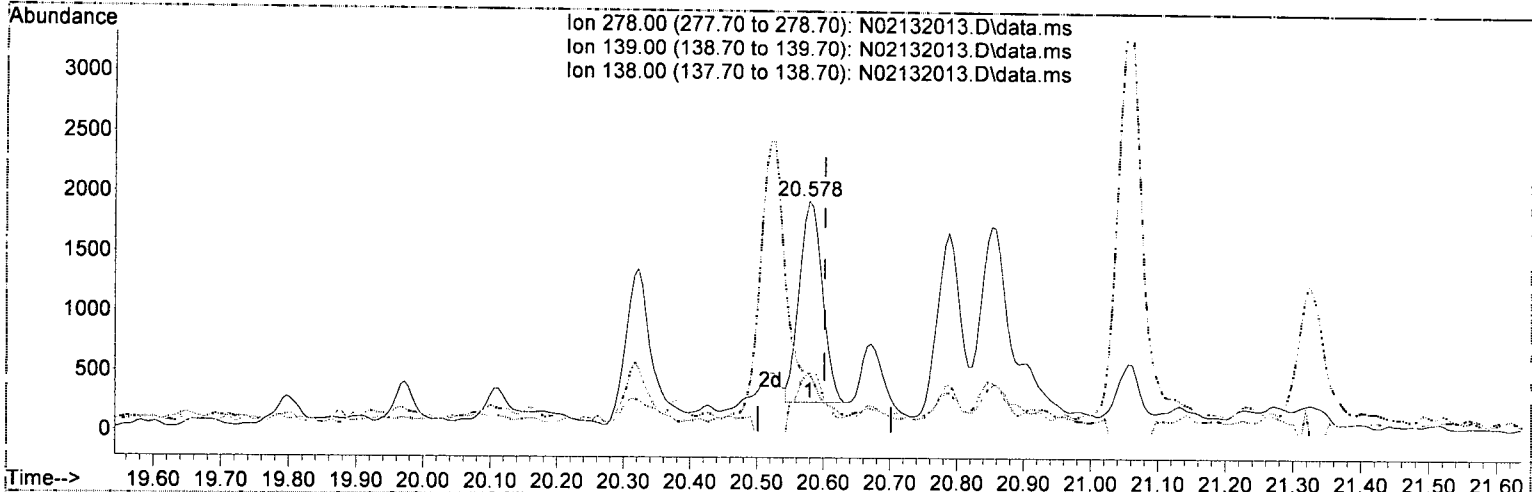
response 31231

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.75
138.00	31.60	20.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132013.D\data.ms

(39) Dibenz(a,h)anthracene (T)

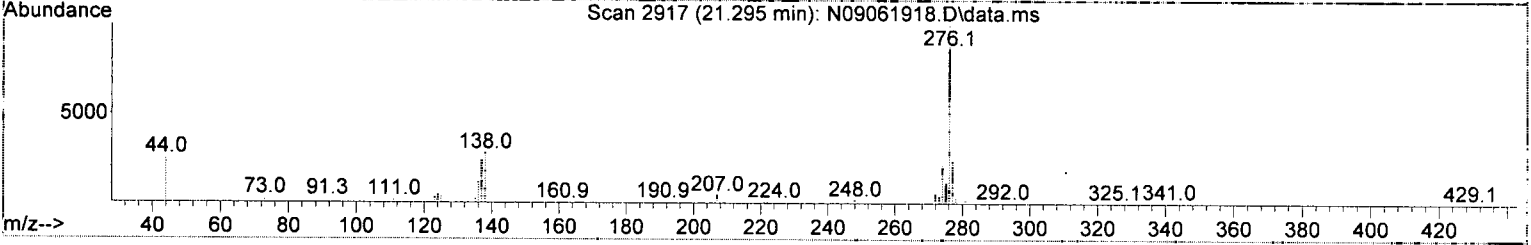
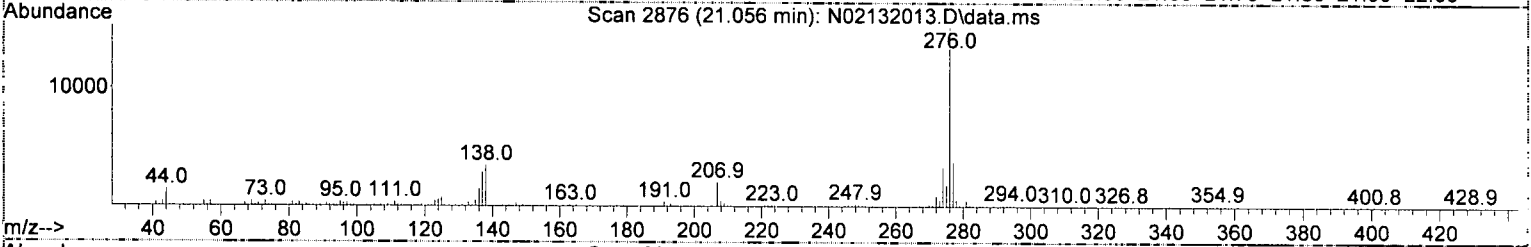
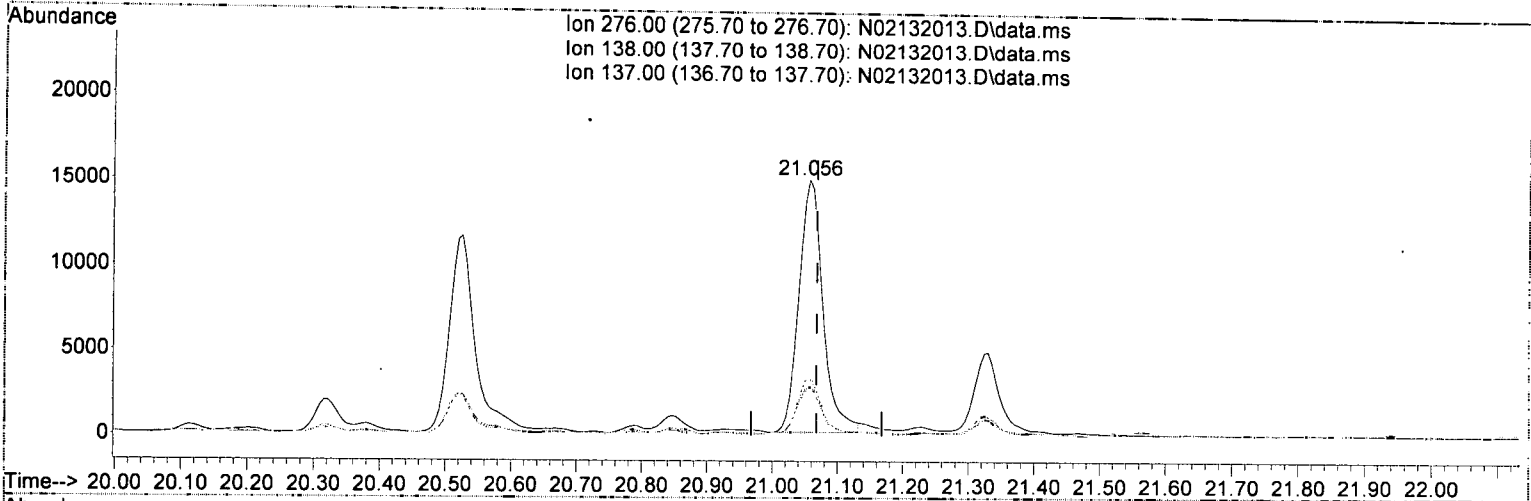
20.578min (-0.024) 2.81 ng/ml J

response	4077
Ion	Exp% Act%
278.00	100.00 100.00
139.00	26.00 25.17
138.00	19.90 25.32
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

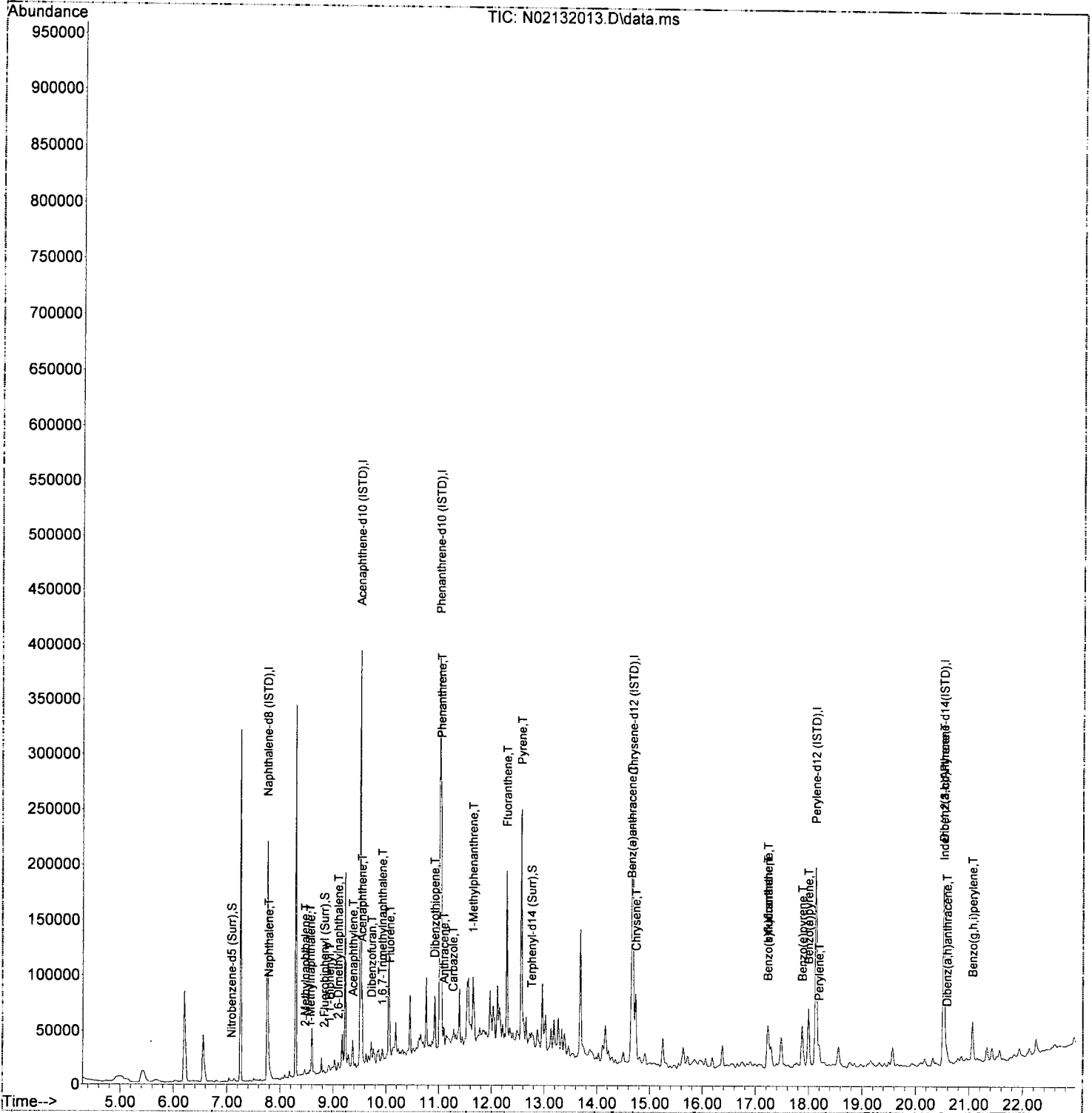


TIC: N02132013.D\data.ms

(40) Benzo(g,h,i)perylene (T)		
21.056min (-0.012)	23.49 ng/ml	
response	38491	
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	23.07
137.00	18.60	19.30
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132013.D
 Acq On : 13 Feb 2020 18:48
 Operator : JK/ AMS/ DTH
 Sample : A0B0288-01RE1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:47 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132014.D
 Acq On : 13 Feb 2020 19:20
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

*Miss injection
 Do not use.*

Quant Time: Feb 14 13:51:50 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

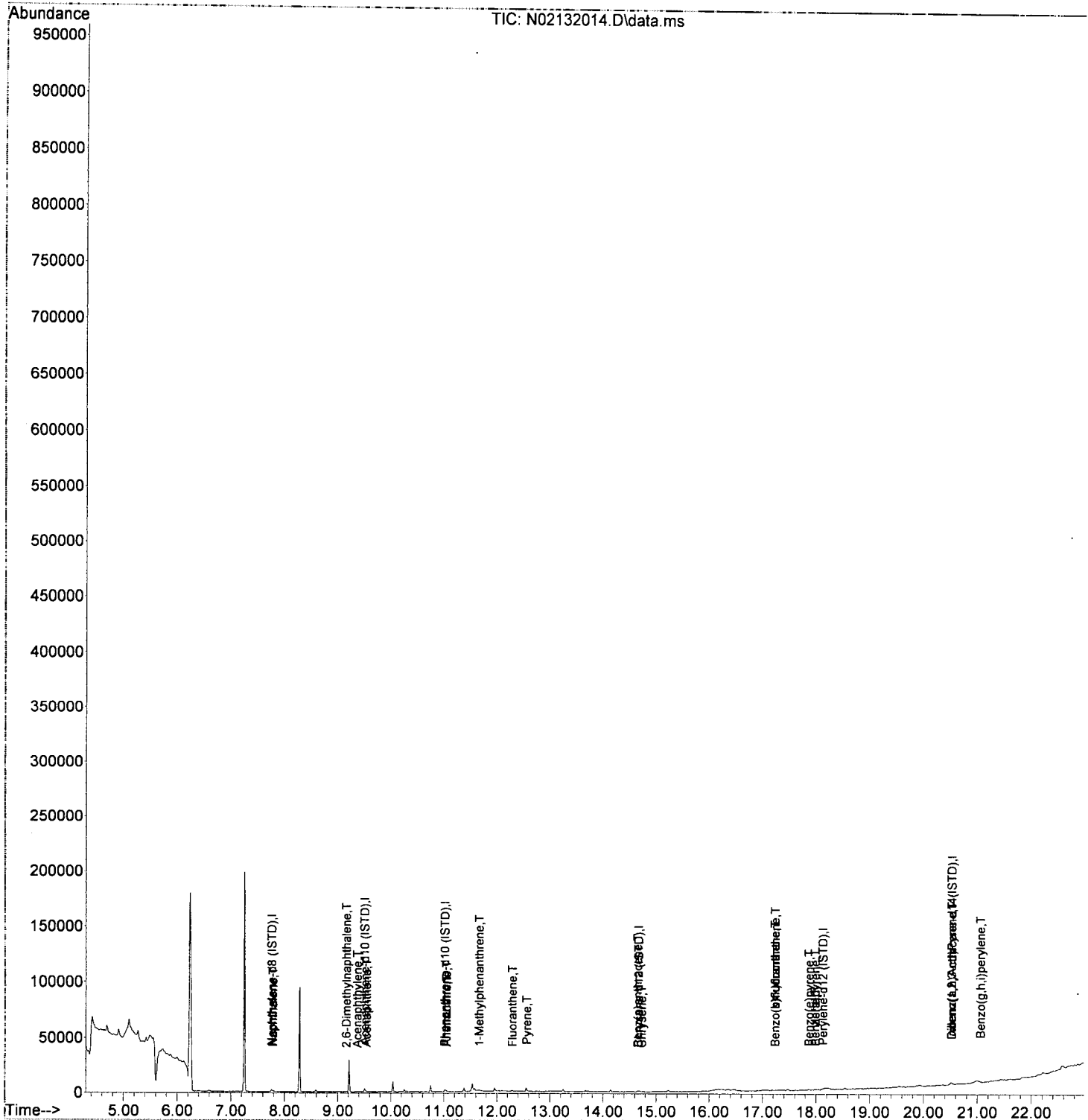
DTH 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.761	136	2530	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.503	162	1202	100.00	ng/ml	-0.01
17) Phenanthrene-d10 (ISTD)	11.013	188	1626	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.668	240	1478	100.00	ng/ml	-0.02
29) Perylene-d12 (ISTD)	18.124	264	1358	100.00	ng/ml	-0.02
37) Dibenz(a,h)Anthracene-d...	20.520	292	1308	100.00	ng/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	0.000	160	0	0.00	ng/ml	
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.784	128	208	7.45	ng/ml	68
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	9.160	156	59	2.54	ng/ml#	79
12) Acenaphthylene	9.364	152	152	5.82	ng/ml	62
13) Acenaphthene	9.538	153	215	12.58	ng/ml	90
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	0.000		0	N.D.		
18) Dibenzothiopene	0.000		0	N.D.		
19) Phenanthrene	11.042	178	1117	58.71	ng/ml	99
20) Anthracene	11.042	178	1206	68.14	ng/ml	99
21) Carbazole	0.000		0	N.D.		
22) 1-Methylphenanthrene	11.660	192	162	12.26	ng/ml	64
23) Fluoranthene	12.284	202	788	41.11	ng/ml	100
25) Pyrene	12.558	202	1021	44.22	ng/ml	98
27) Benz(a)anthracene	14.650	228	325	18.94	ng/ml	84
28) Chrysene	14.726	228	455	28.02	ng/ml	93
30) Benzo(b)fluoranthene	17.232	252	368	23.48	ng/ml	74
31) Benzo(k)fluoranthene	17.232	252	514	33.32	ng/ml	72
32) Benzo(b+k)fluoranthene	17.232	252	514	32.07	ng/ml	72
34) Benzo(e)pyrene	17.868	252	308	19.44	ng/ml	52
35) Benzo(a)pyrene	17.984	252	335	24.98	ng/ml	74
36) Perylene	17.984	252	335	20.28	ng/ml	56
38) Indeno(1,2,3-cd)Pyrene	20.520	276	233	14.44	ng/ml	89
39) Dibenz(a,h)anthracene	0.000		0	N.D.		
40) Benzo(g,h,i)perylene	21.056	276	328	19.17	ng/ml	77

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132014.D
Acq On : 13 Feb 2020 19:20
Operator : JK/ AMS/ DTH
Sample : 0020423-DUP1@100
Misc : 100x, 8270D PAH LL
ALS Vial : 8 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:50 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

DTH 2/14/20

MOS

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	185262	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	117571	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	209099	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.674	240	172653	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.130	264	168173	100.00	ng/ml	-0.01
37) Dibenz(a,h)Anthracene-d...	20.520	292	134112	100.00	ng/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.079	82	354	0.58	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.828	172	1365	0.78	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	4031	0.26	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.762	244	1607	0.88	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.025	264	57	0.04	ng/ml	0.06
Target Compounds						
3) Decalin	0.000		0	N.D		
4) Naphthalene	7.778	128	13786	6.75	ng/ml	97
5) 2-Methylnaphthalene	8.466	142	3134	1.81	ng/ml	97
6) 1-Methylnaphthalene	8.565	142	1641	0.95	ng/ml	95
7) 1,1'-Biphenyl	8.927	154	1019	0.44	ng/ml	89
8) 2,6-Dimethylnaphthalene	9.090	156	1966	1.16	ng/ml	93
12) Acenaphthylene	9.370	152	14597	5.72	ng/ml	96
13) Acenaphthene	9.544	153	25085	15.00	ng/ml	99
14) Dibenzofuran	9.719	168	2098	1.00	ng/ml#	63
15) 1,6,7-Trimethylnaphtha...	9.923	170	4827	3.44	ng/ml	87
16) Fluorene	10.063	166	15589	9.11	ng/ml	96
18) Dibenzothiopene	10.914	184	17432	7.97	ng/ml	96
19) Phenanthrene	11.042	178	151600	61.96	ng/ml	100
20) Anthracene	11.089	178	10642	4.68	ng/ml	93
21) Carbazole	11.264	167	1094	0.59	ng/ml#	13
22) 1-Methylphenanthrene	11.666	192	12265	7.22	ng/ml	93
23) Fluoranthene	12.284	202	122450	49.67	ng/ml	96
25) Pyrene	12.564	202	154978	57.45	ng/ml	99
27) Benz(a)anthracene	14.650	228	43318	21.61	ng/ml	71
28) Chrysene	14.732	228	52582	27.72	ng/ml	94
30) Benzo(b)fluoranthene	17.227	252	49174	25.34	ng/ml	92
31) Benzo(k)fluoranthene	17.227	252	63190	33.07	ng/ml	90
32) Benzo(b+k)fluoranthene	17.227	252	70074	35.30	ng/ml	90
34) Benzo(e)pyrene	17.874	252	34244	17.45	ng/ml	96
35) Benzo(a)pyrene	17.990	252	48384	29.13	ng/ml	96
36) Perylene	18.188	252	14106	6.90	ng/ml	96
38) Indeno(1,2,3-cd)Pyrene	20.526	276	33041	19.98	ng/ml	78
39) Dibenz(a,h)anthracene	20.578	278	4651	12.99	ng/ml	91
40) Benzo(g,h,i)perylene	21.056	276	41635	23.73	ng/ml	97

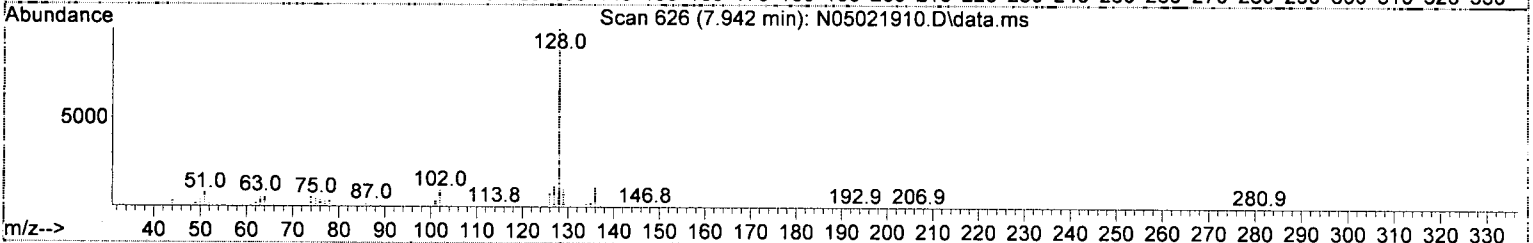
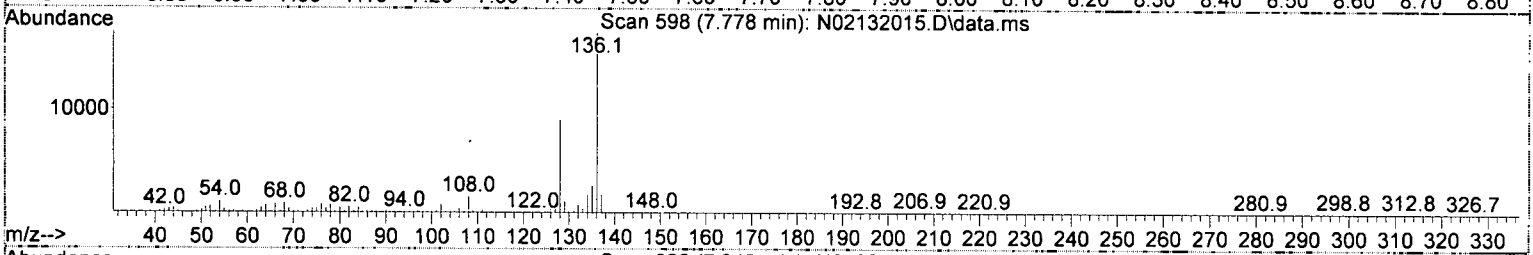
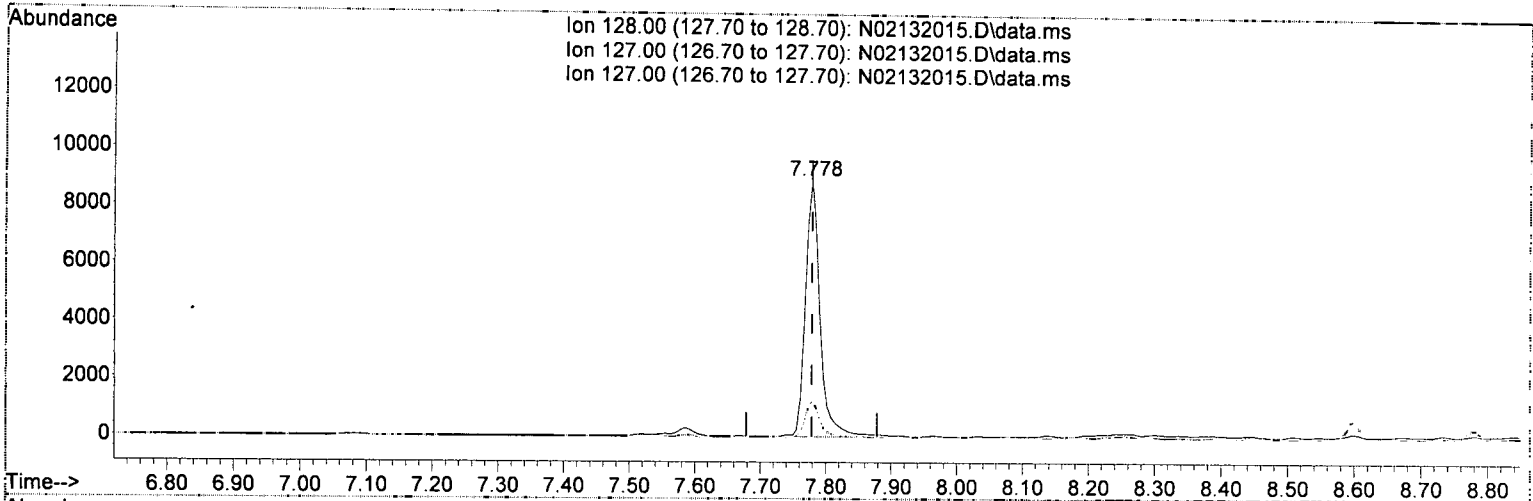
MI Hit MOS

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(4) Naphthalene (T)

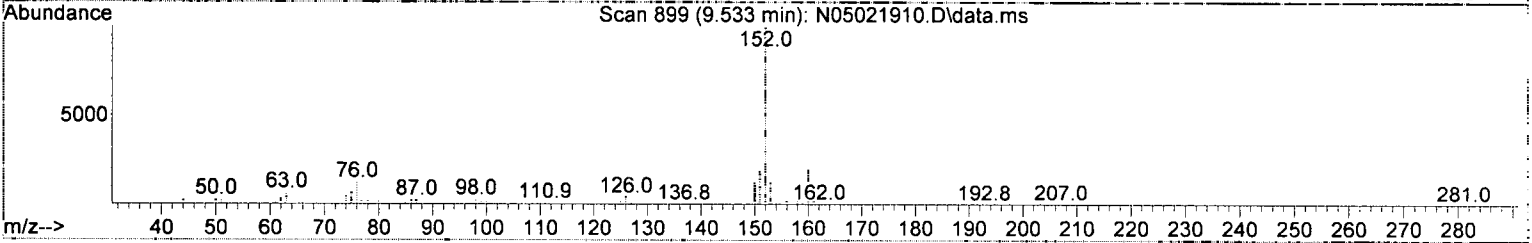
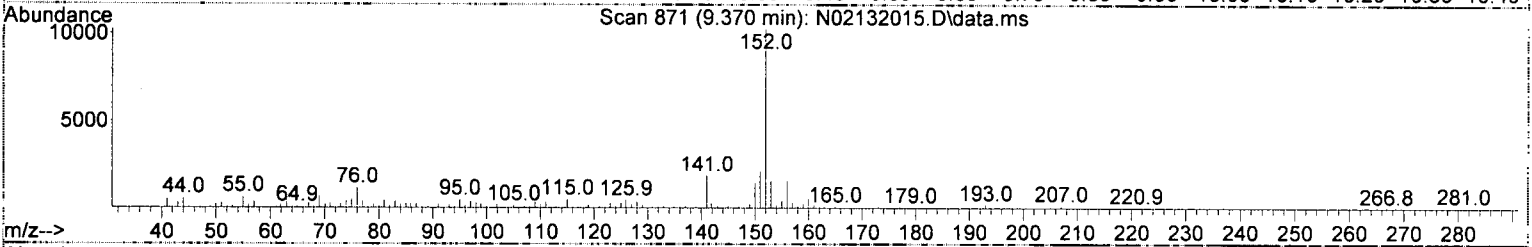
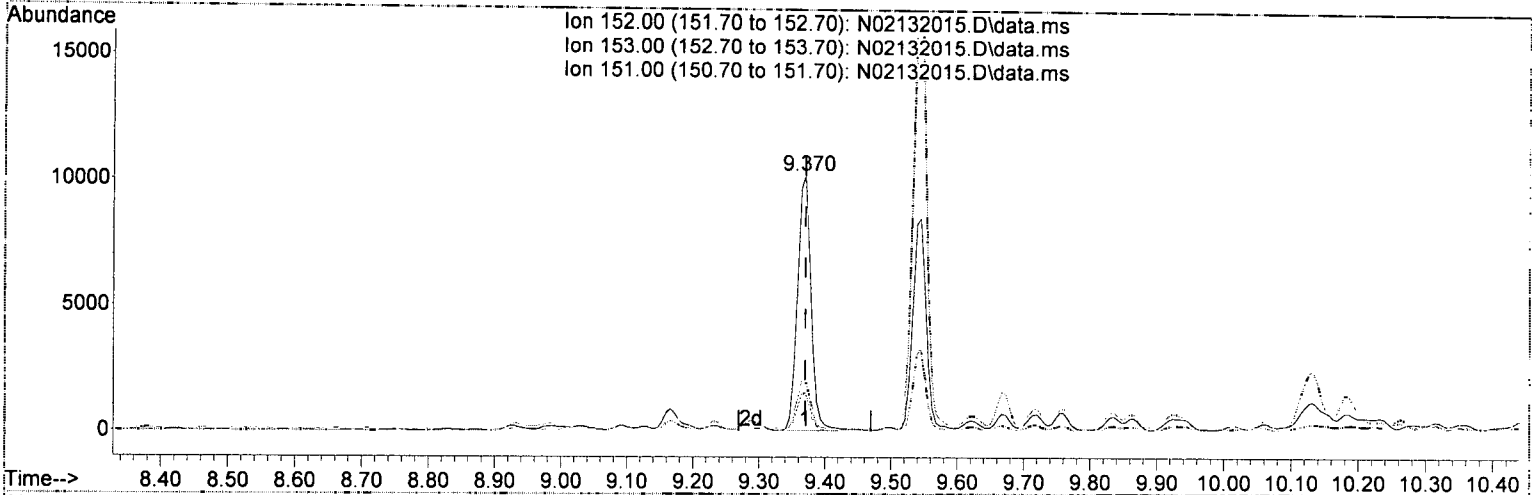
7.778min (+ 0.000) 6.75 ng/ml

response	13786
Ion	Exp% Act%
128.00	100.00 100.00
127.00	12.60 13.90
127.00	12.60 13.90
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(12) Acenaphthylene (T)

9.370min (+ 0.000) 5.72 ng/ml

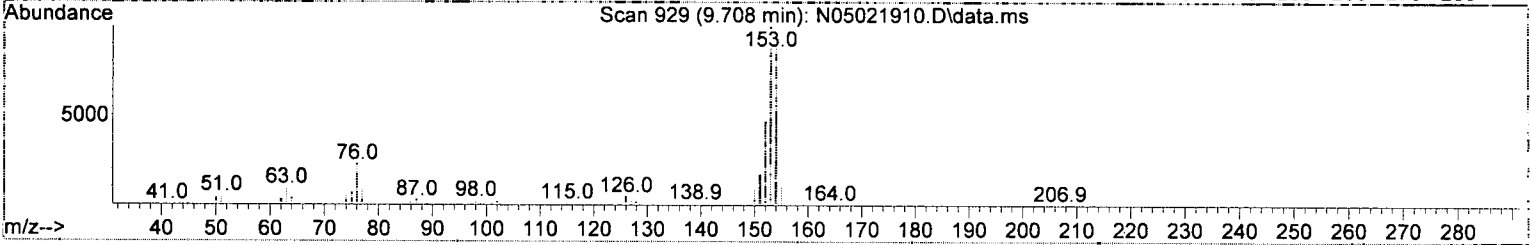
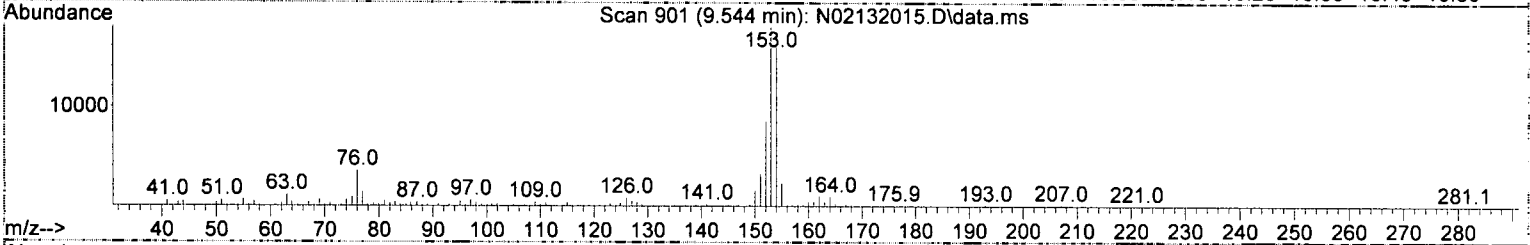
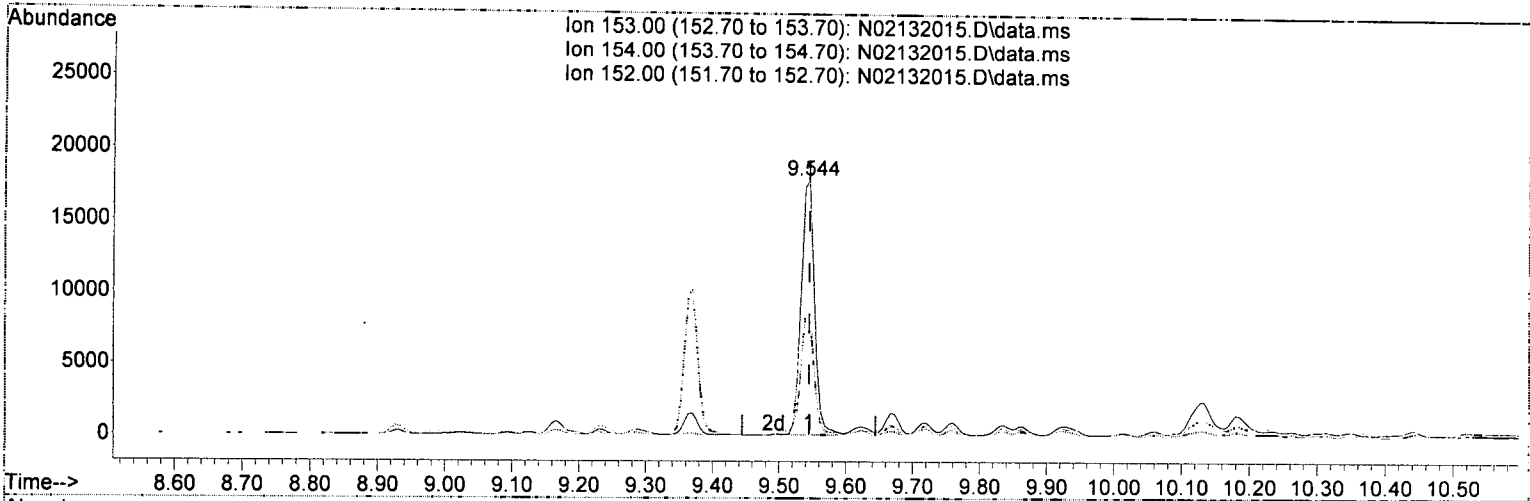
response 14597

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.13
151.00	19.30	20.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(13) Acenaphthene (T)

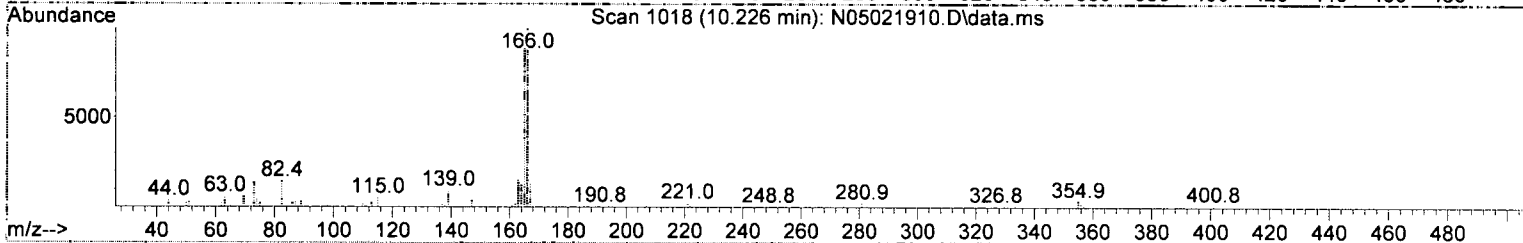
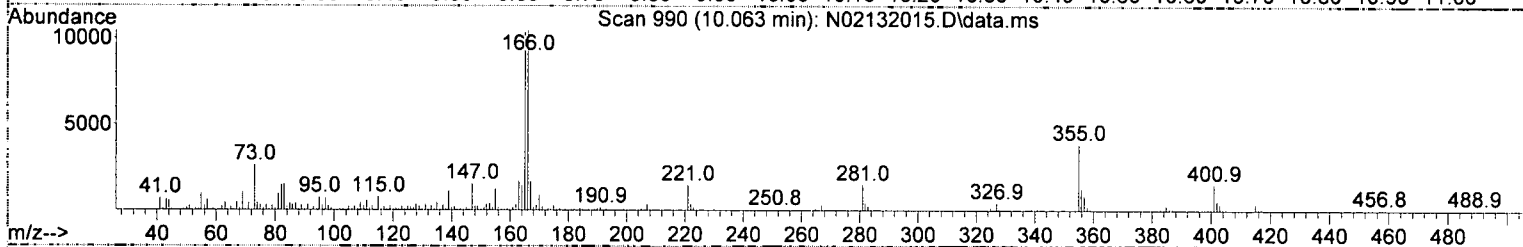
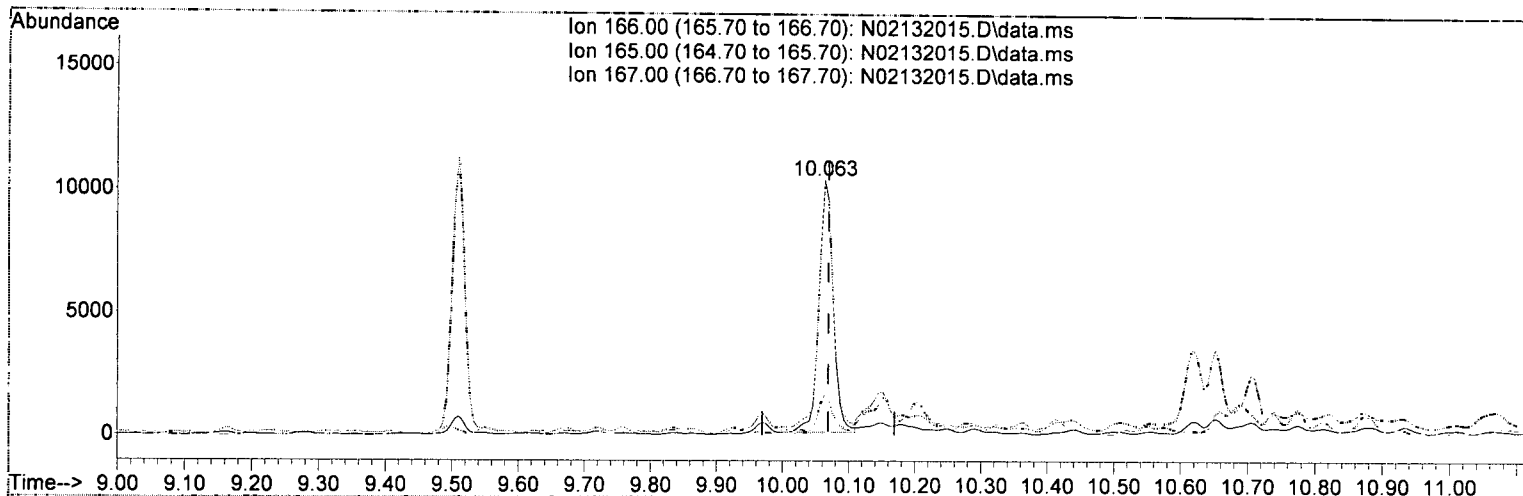
9.544min (+ 0.000) 15.00 ng/ml

response	25085
Ion	Exp% Act%
153.00	100.00 100.00
154.00	90.70 91.16
152.00	46.80 47.68
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(16) Fluorene (T)

10.063min (-0.006) 9.11 ng/ml

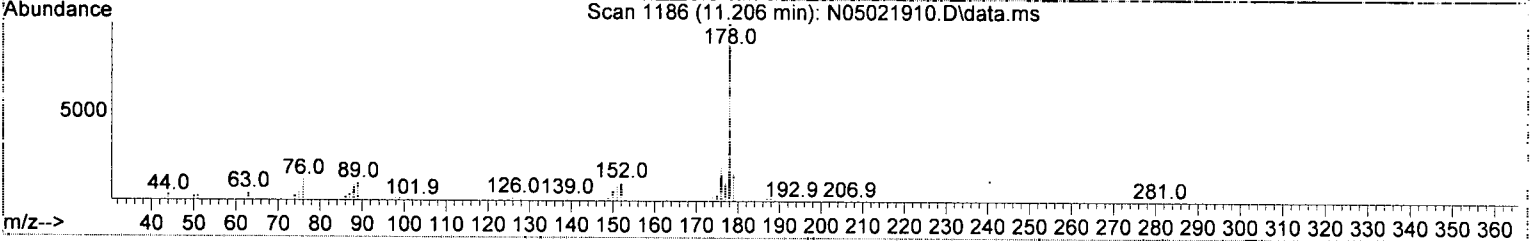
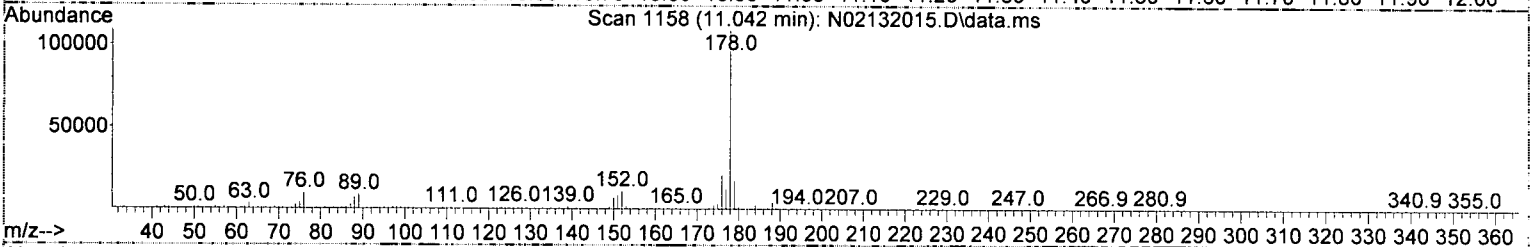
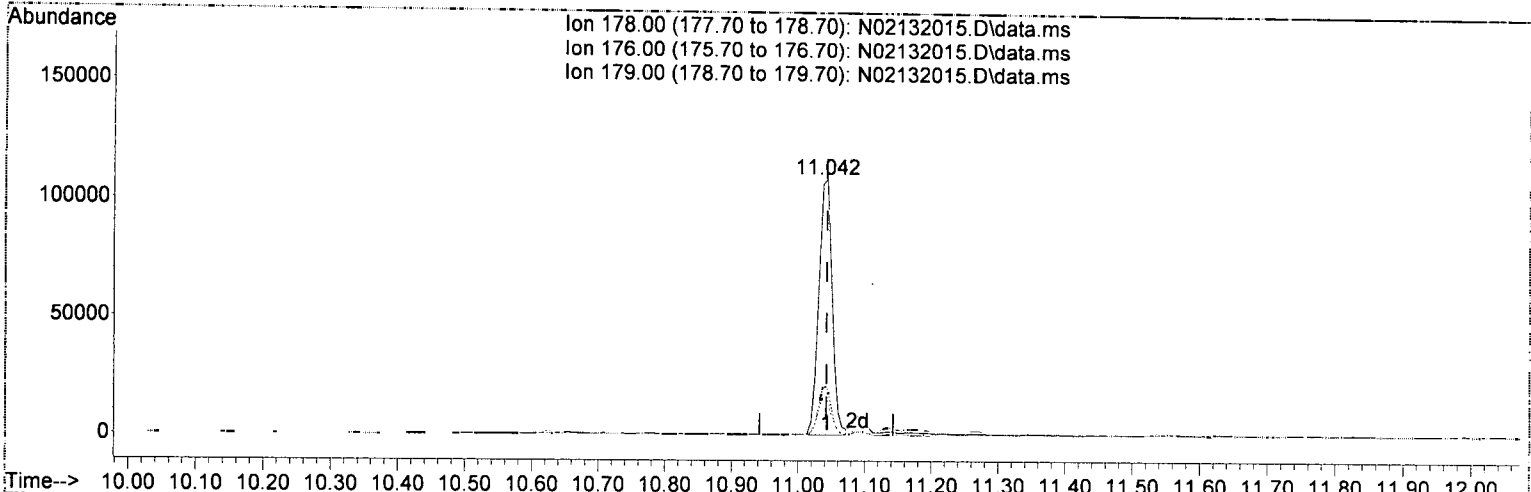
response 15589

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	98.76
167.00	13.60	16.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(19) Phenanthrene (T)

11.042min (0.000) 61.96 ng/ml

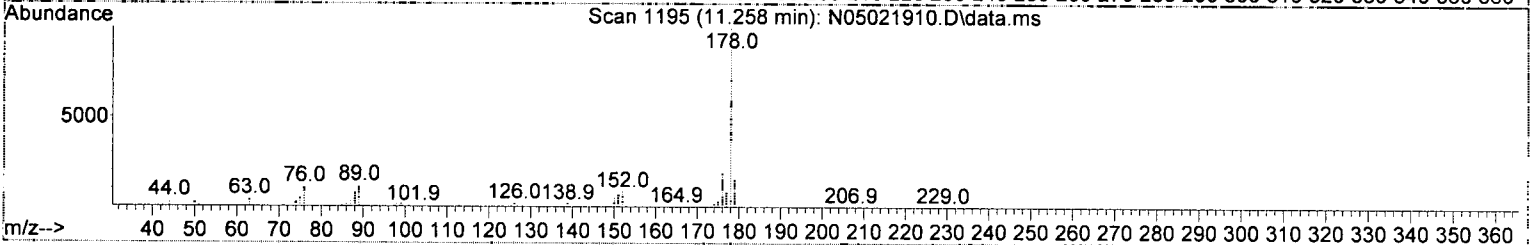
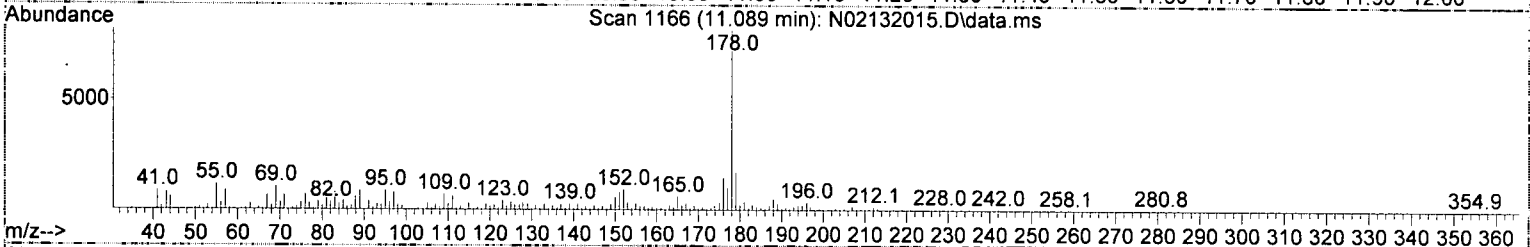
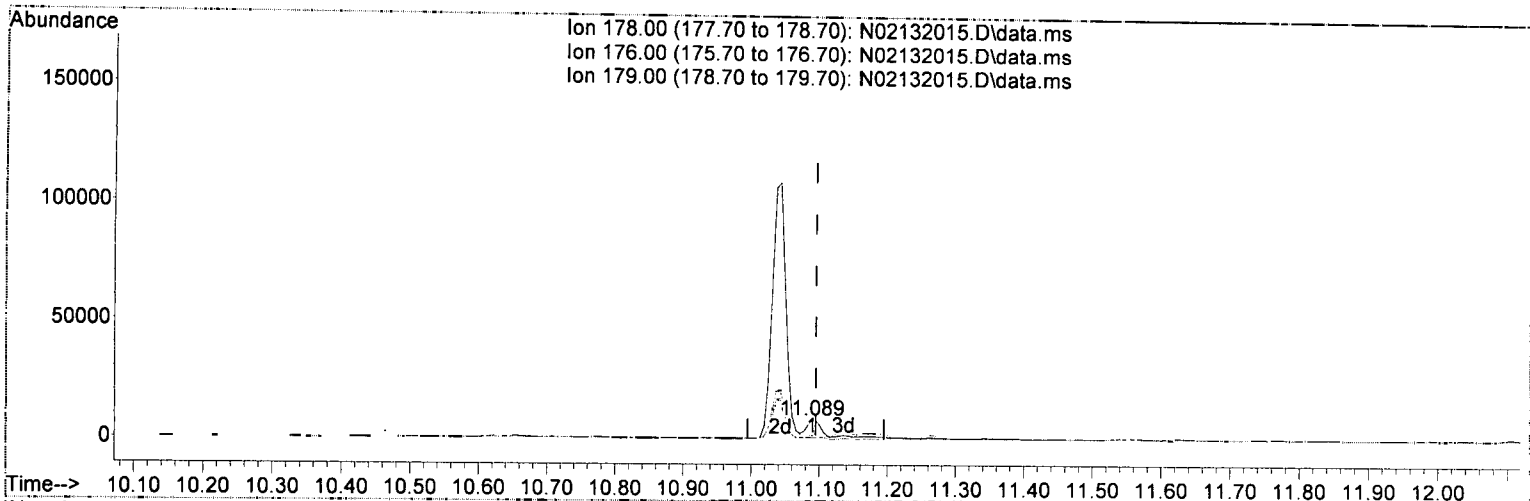
response 151600

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.02
179.00	15.10	15.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(20) Anthracene (T)

11.089min (-0.006) 4.68 ng/ml

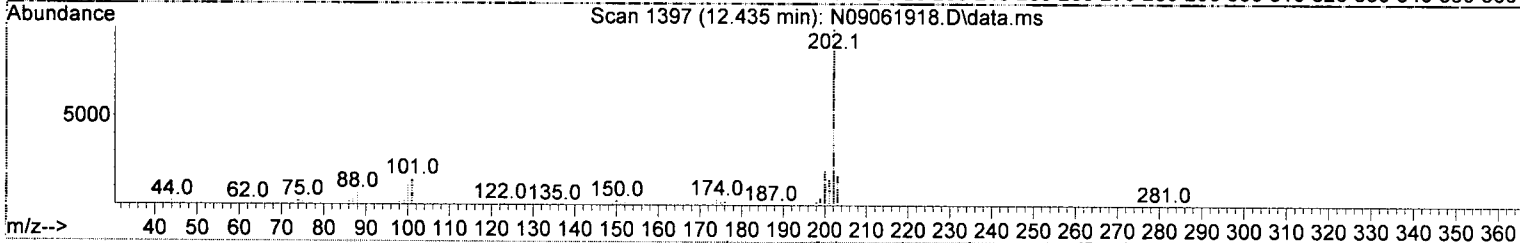
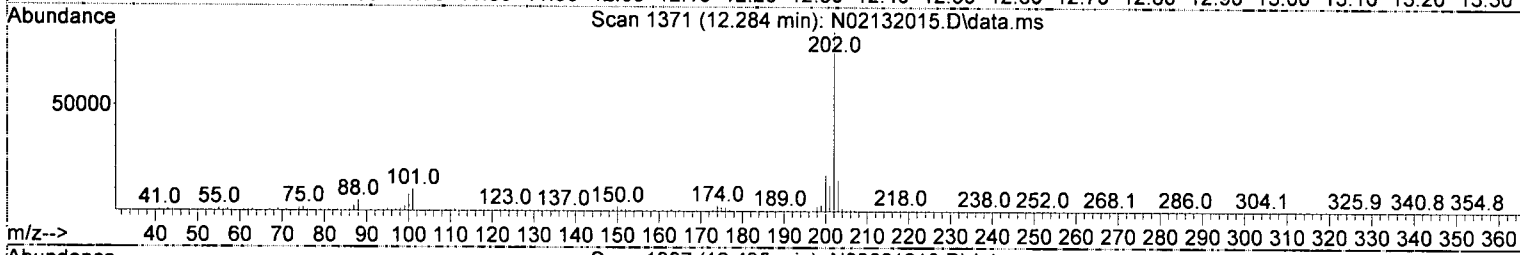
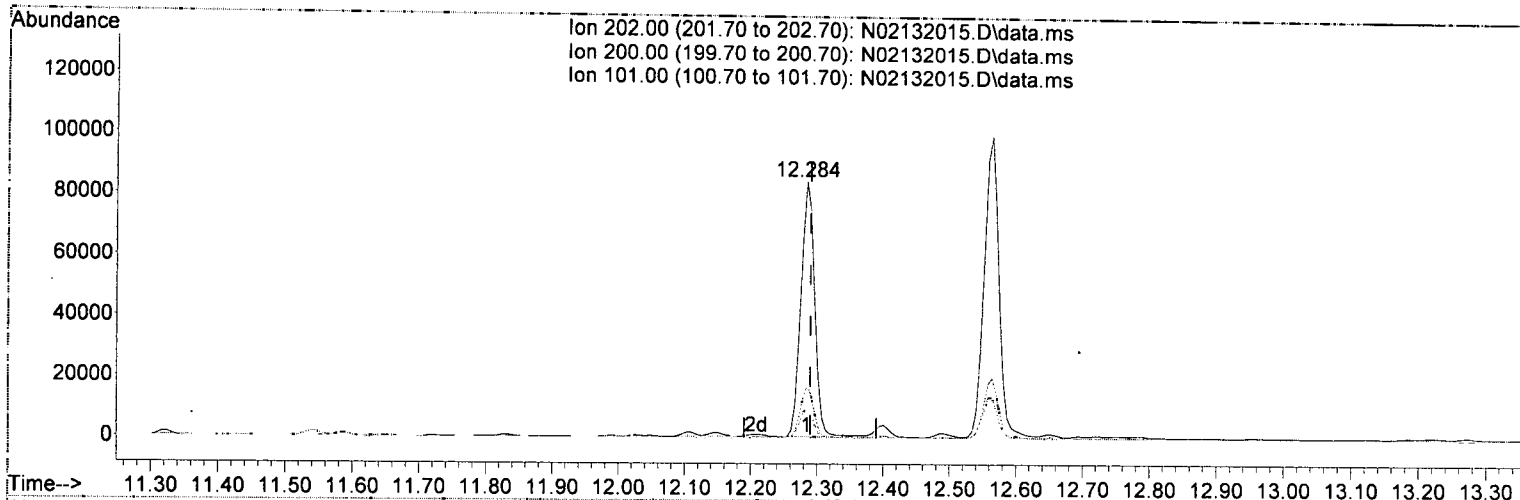
response 10642

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.87
179.00	15.30	21.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(23) Fluoranthene (T)

12.284min (-0.006) 49.67 ng/ml

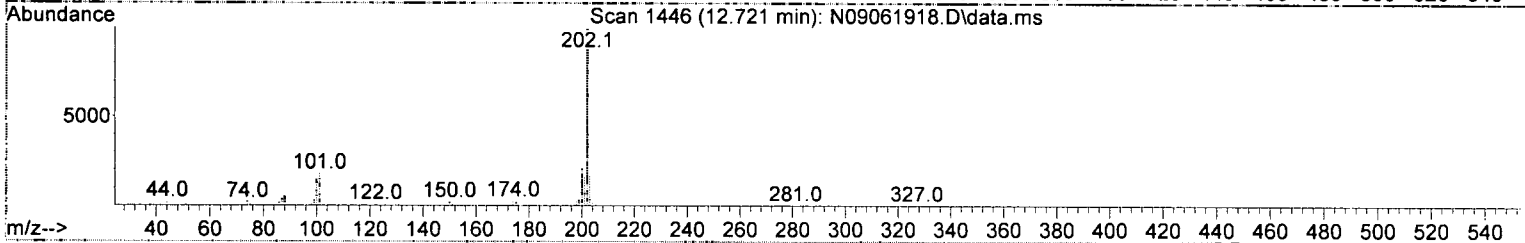
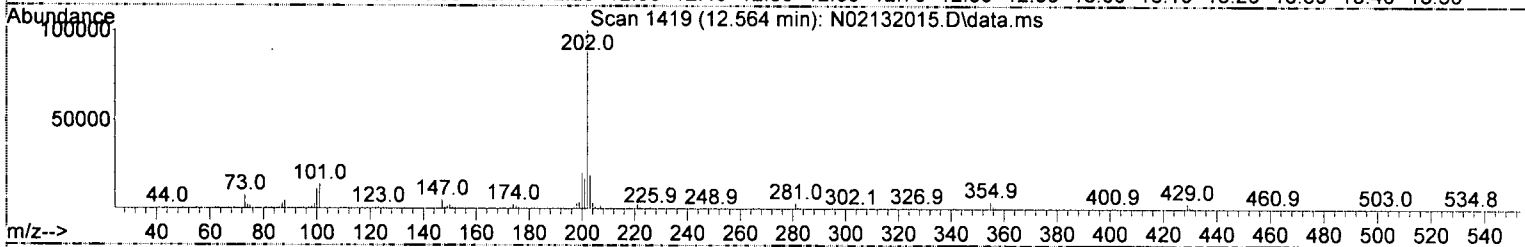
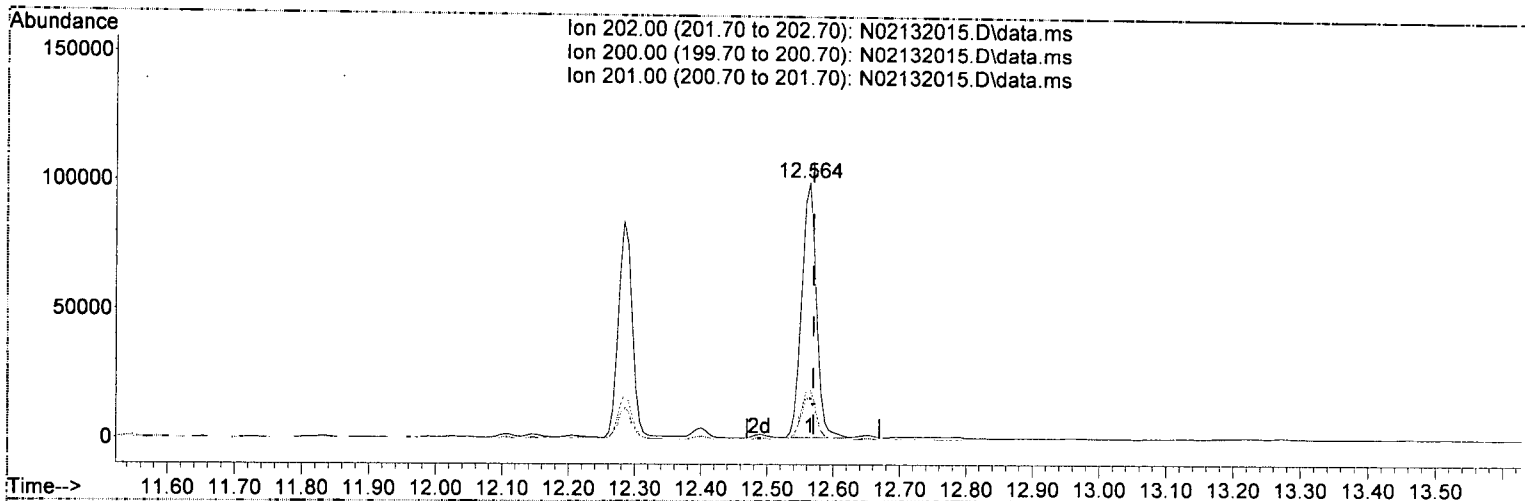
response 122450

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.11
101.00	15.30	11.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(25) Pyrene (T)

12.564min (-0.006) 57.45 ng/ml

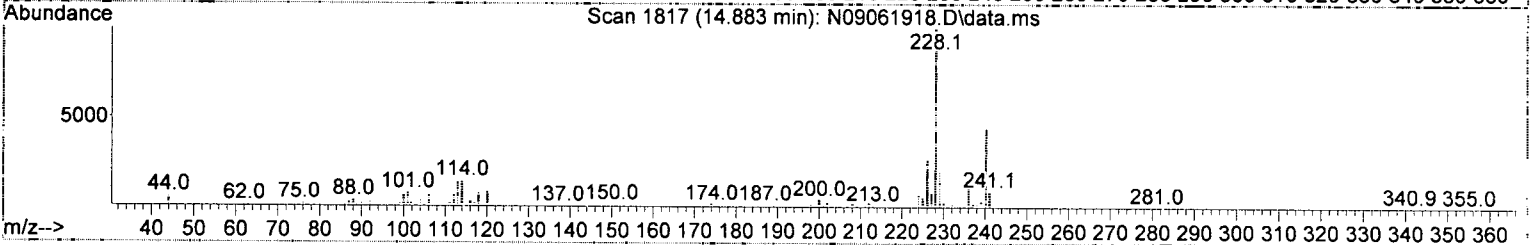
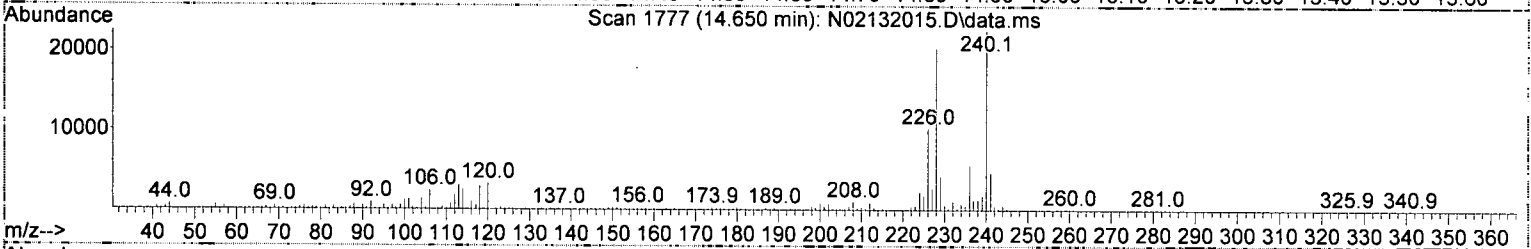
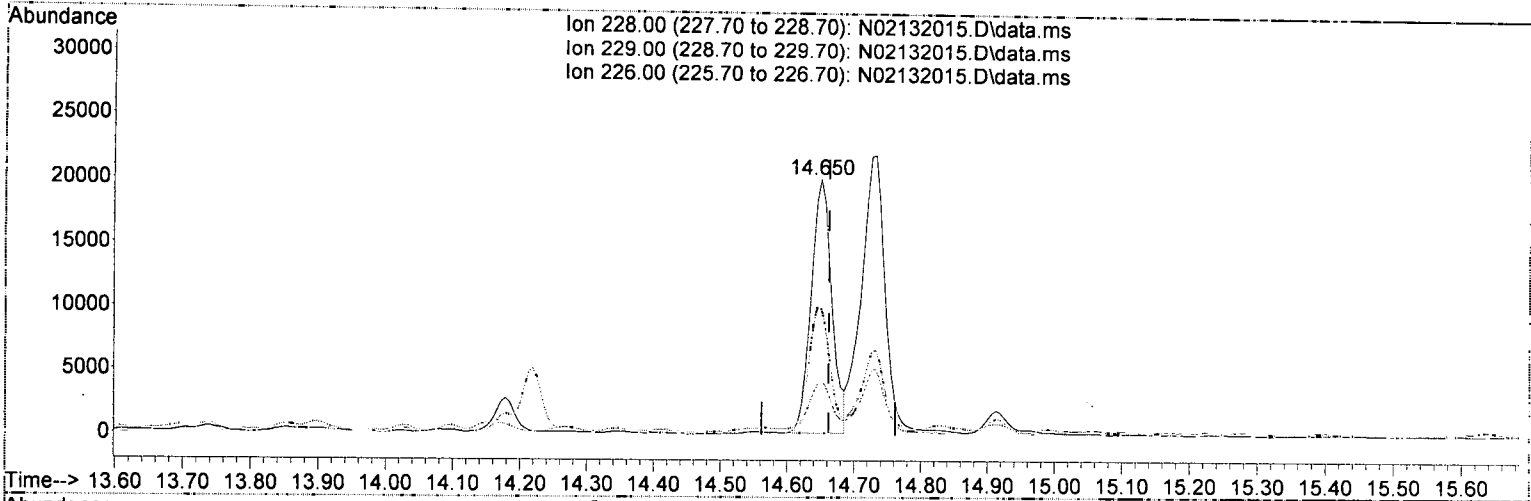
response 154978

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.09
201.00	16.80	16.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



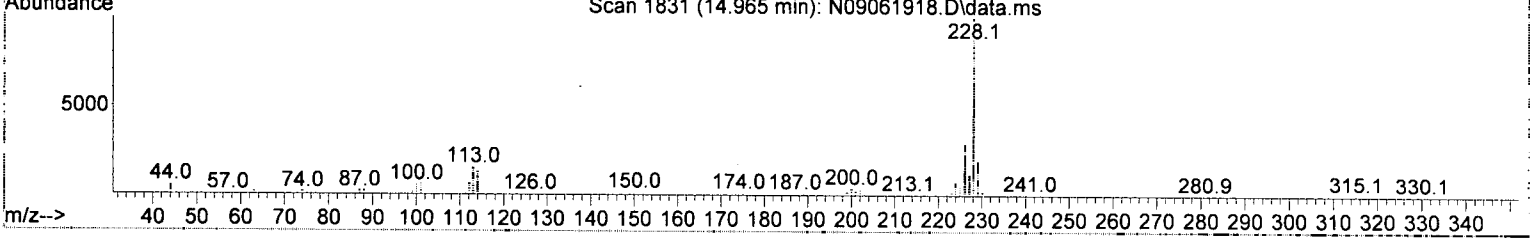
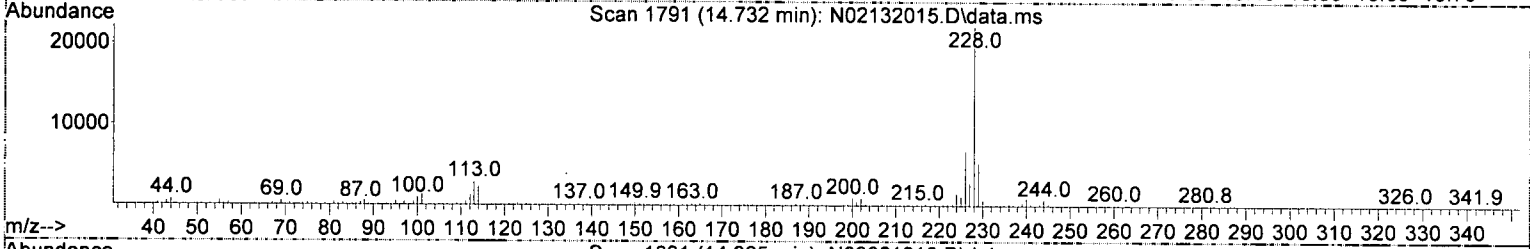
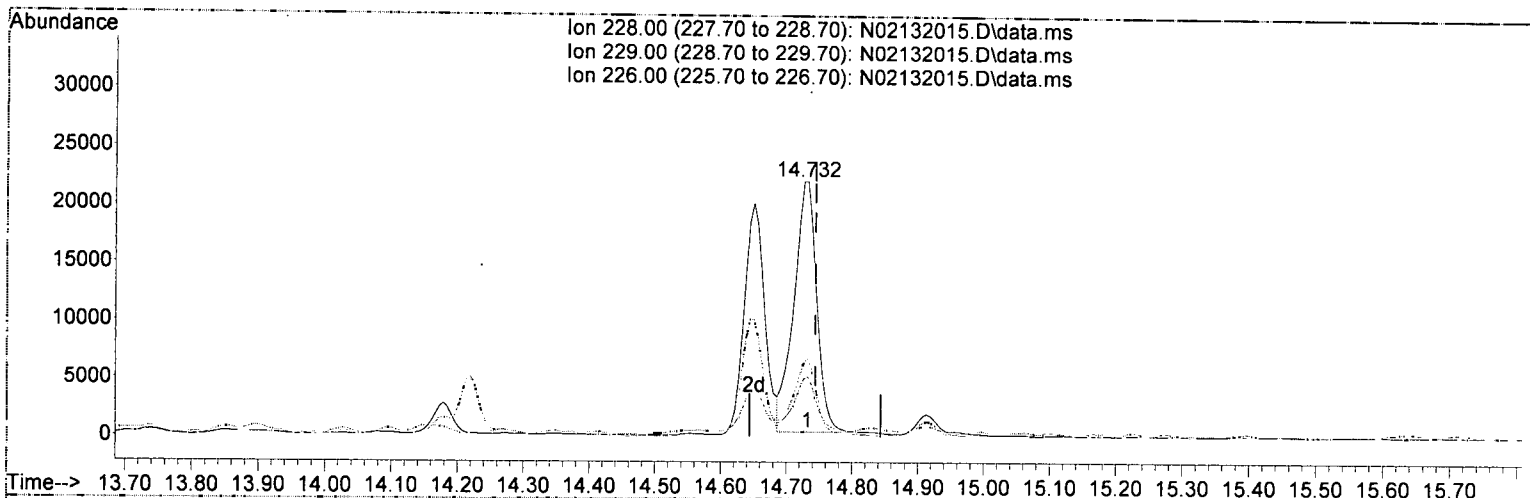
TIC: N02132015.D\data.ms

(27) Benz(a)anthracene (T)		
Time	Response	Concentration
14.650min (-0.012)	43318	21.61 ng/ml
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.95
226.00	26.20	50.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



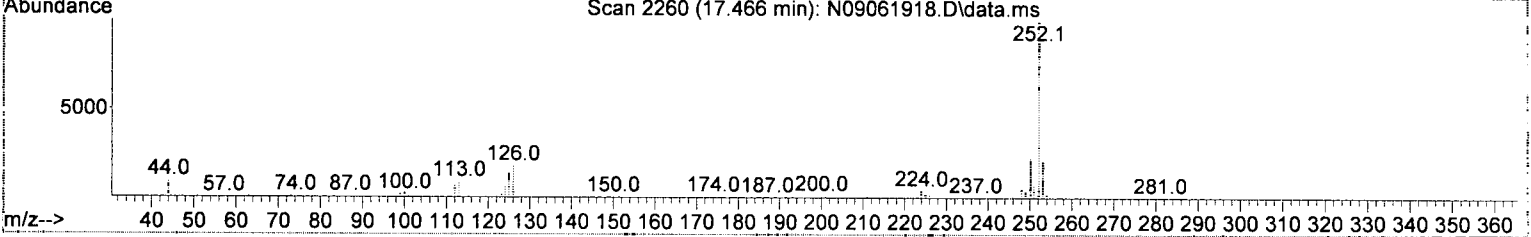
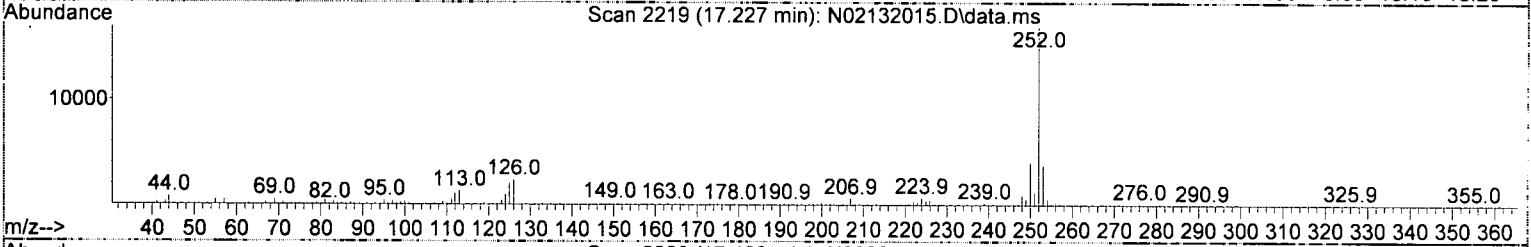
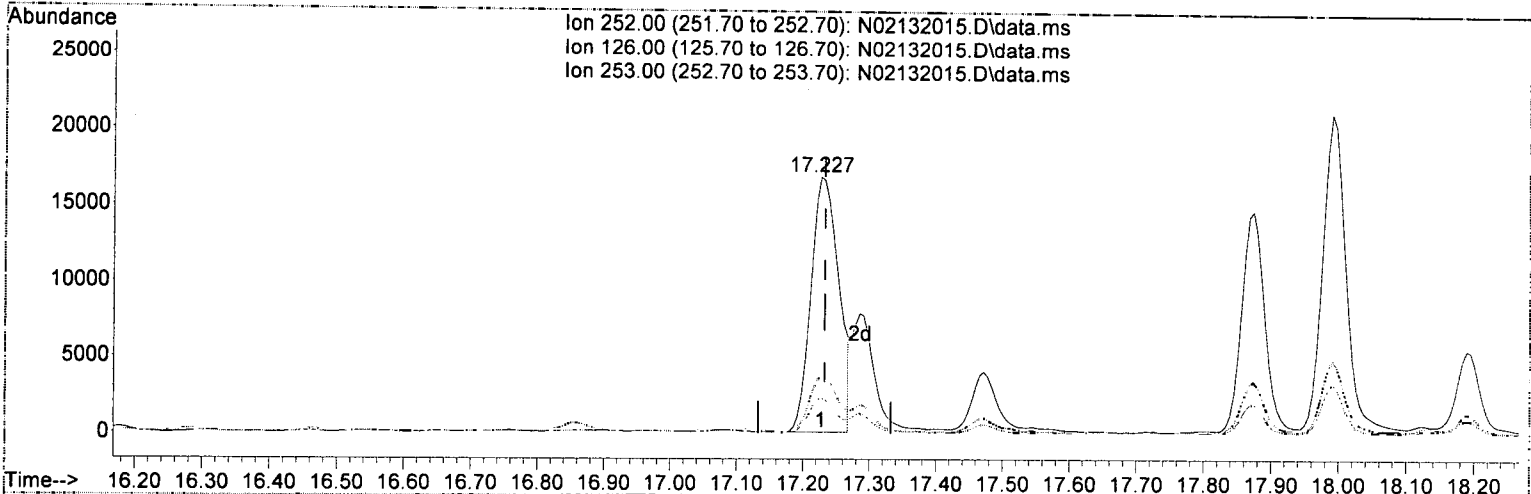
TIC: N02132015.D\data.ms

(28) Chrysene (T)		
14.732min (-0.012)	27.72 ng/ml	
response	52582	
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	23.64
226.00	28.60	30.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(30) Benzo(b)fluoranthene (T)

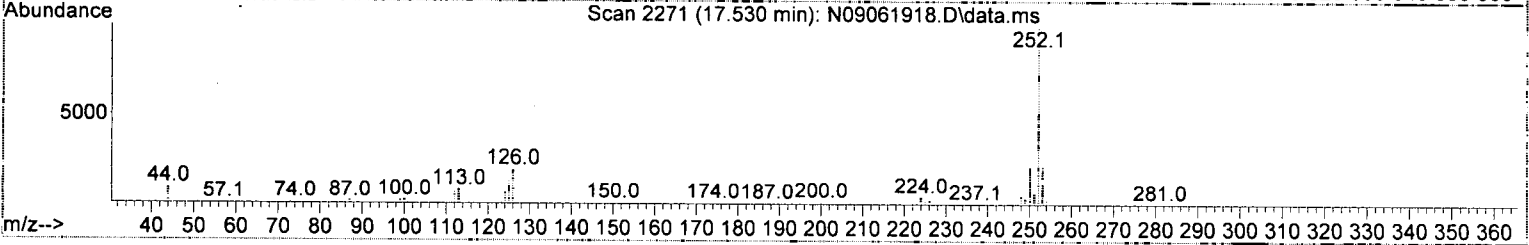
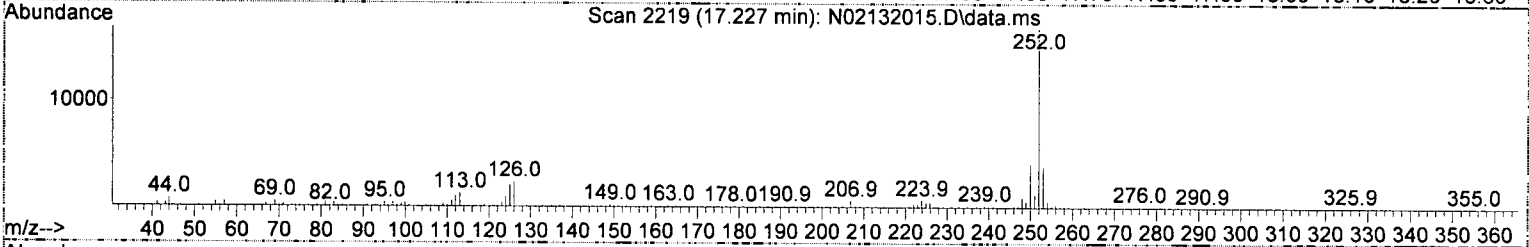
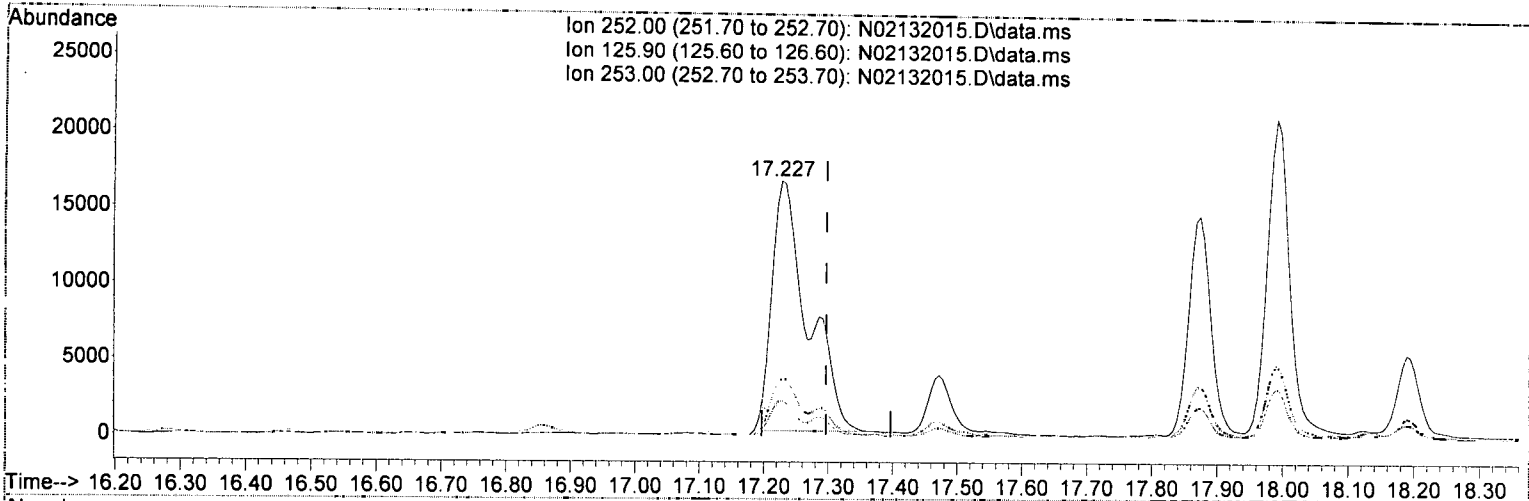
17.227min (-0.006) 25.34 ng/ml

response	49174
Ion	Exp% Act%
252.00	100.00 100.00
126.00	20.00 13.78
253.00	21.10 22.34
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

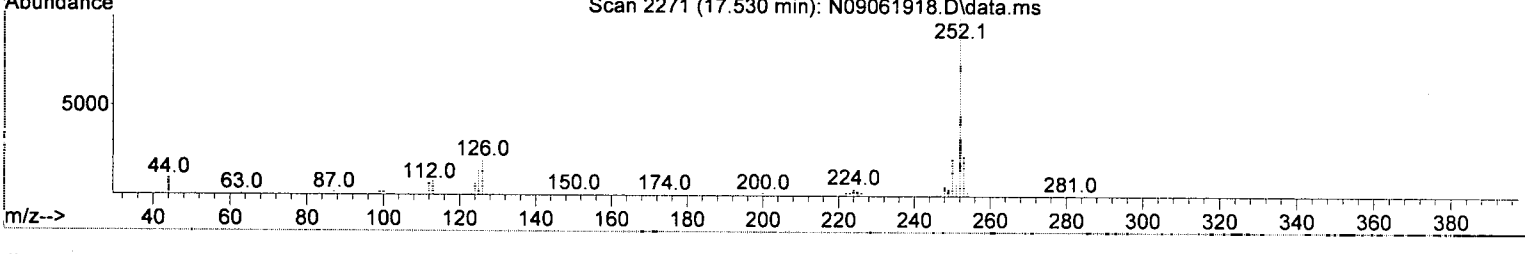
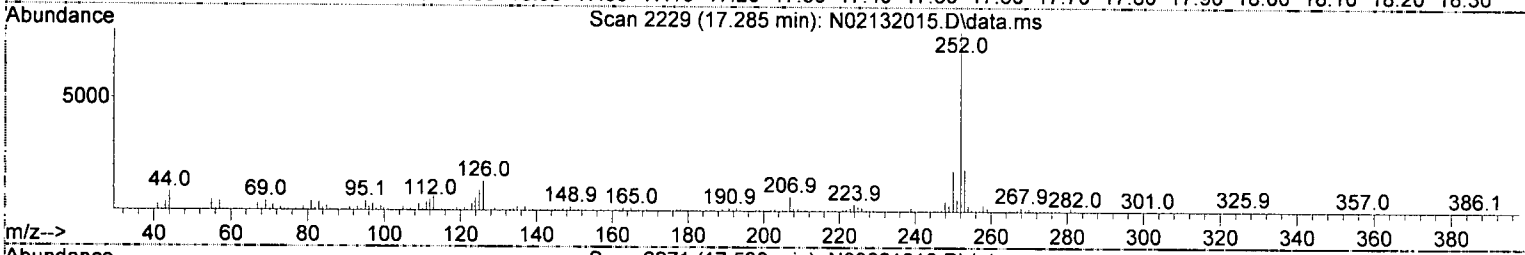
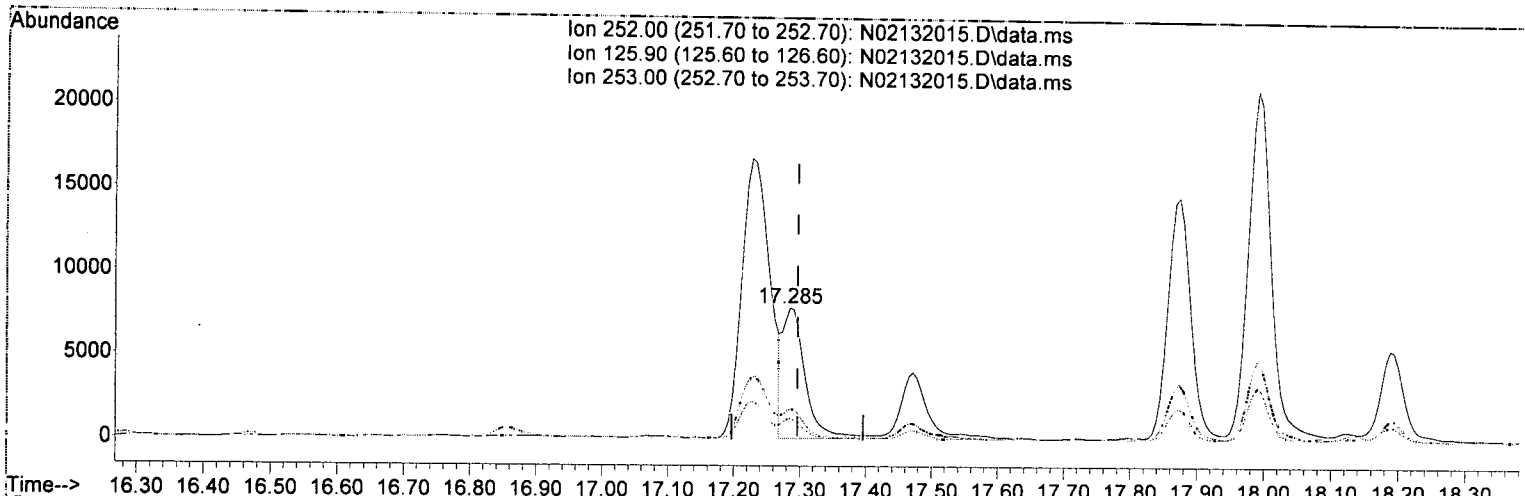
(31) Benzo(k)fluoranthene (T)		
17.227min (-0.070)	33.07	ng/ml
response	63190	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.78
253.00	21.50	22.34
0.00	0.00	0.00

MT

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

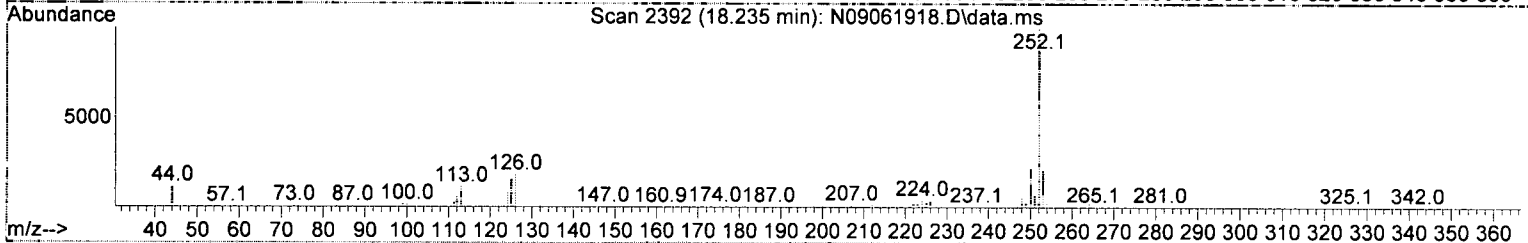
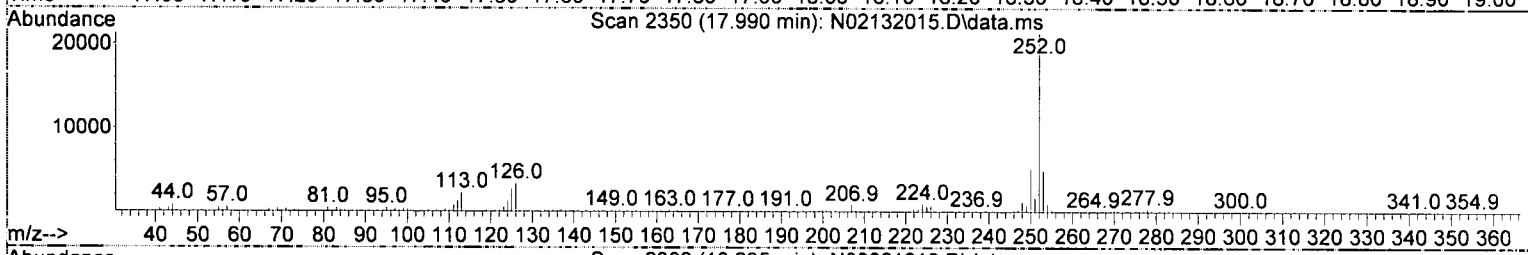
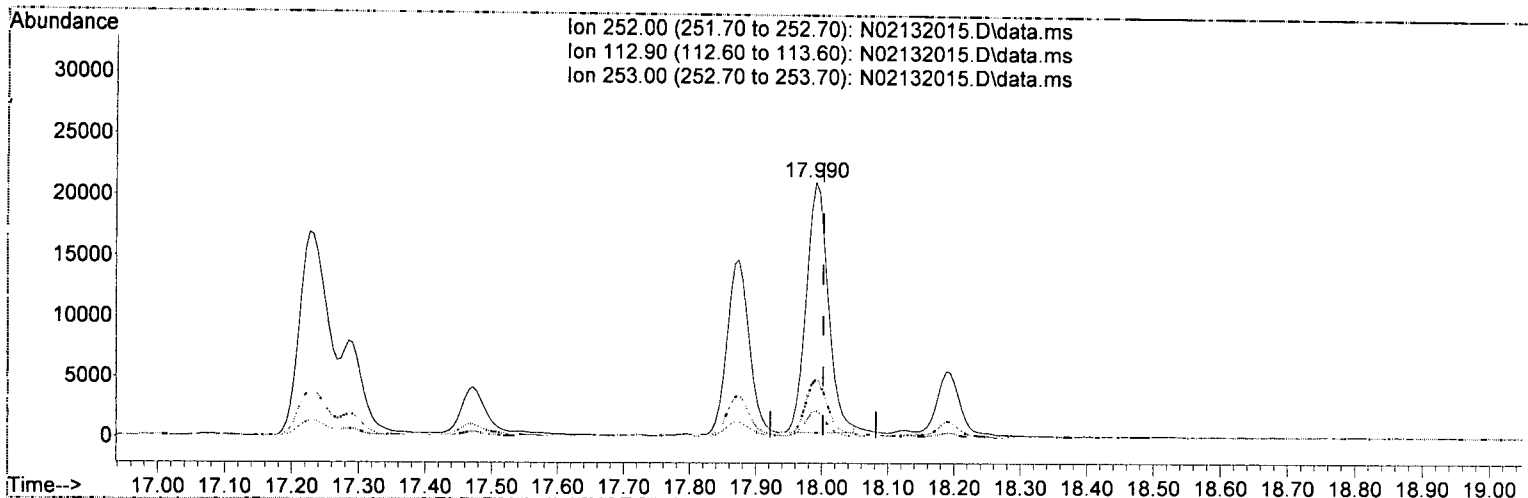
(31) Benzo(k)fluoranthene (T)		
17.285min (-0.012)	9.70 ng/ml	(m)
response	18533	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.55
253.00	21.50	23.63
0.00	0.00	0.00

Handwritten notes: MOS, DTH 2/14/20, ✓

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(35) Benzo(a)pyrene (T)

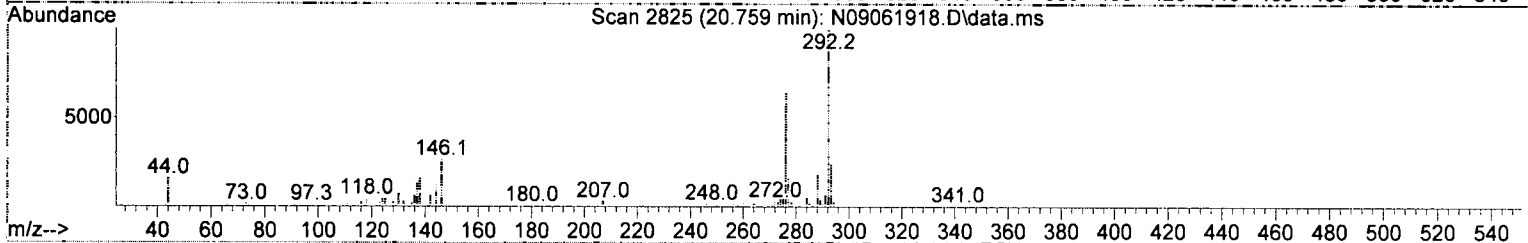
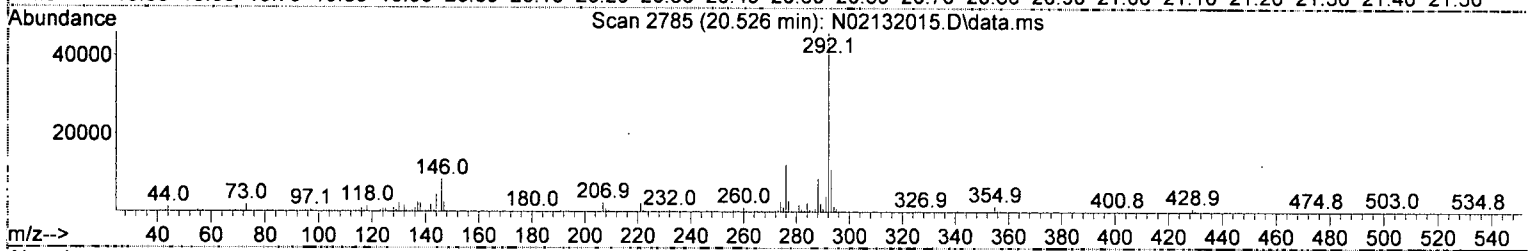
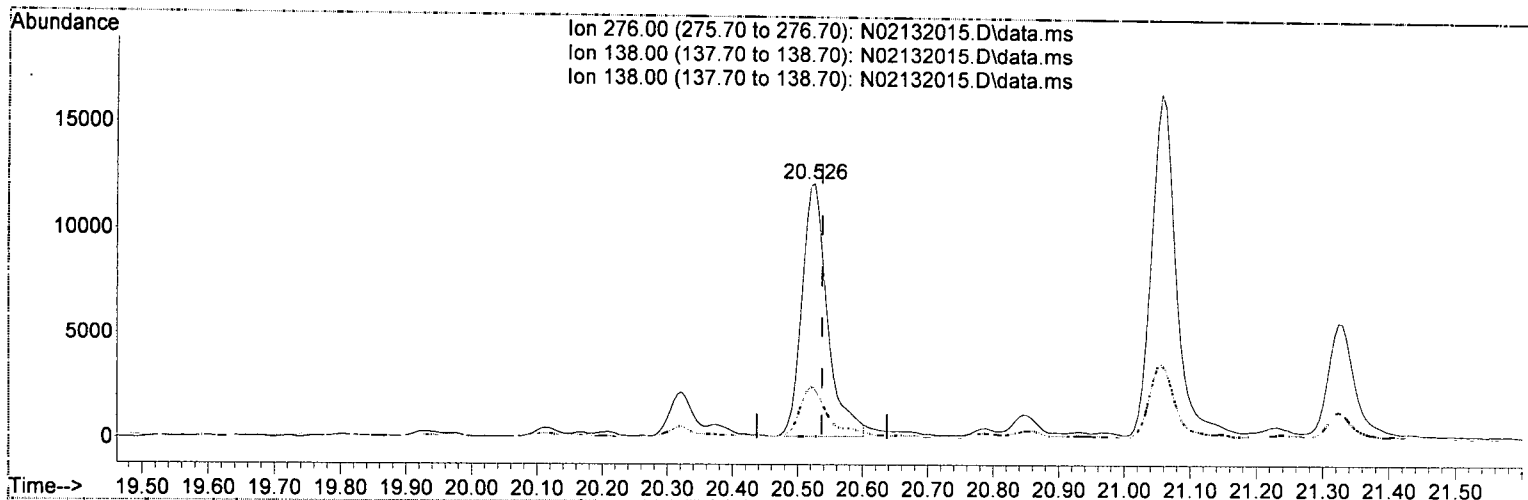
17.990min (-0.012) 29.13 ng/ml

response	48384
Ion	Exp% Act%
252.00	100.00 100.00
112.90	12.70 10.32
253.00	21.90 22.91
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.526min (-0.012) 19.98 ng/ml

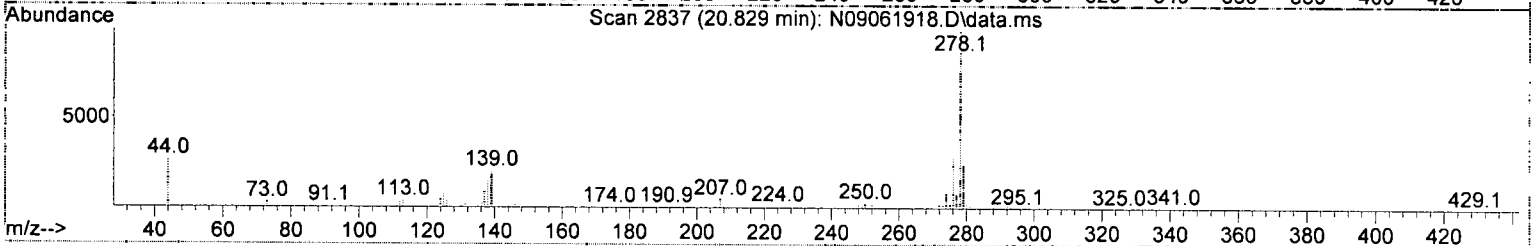
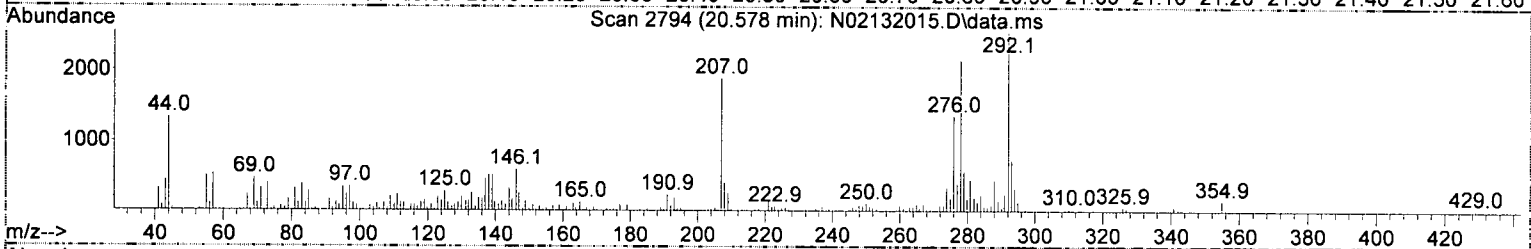
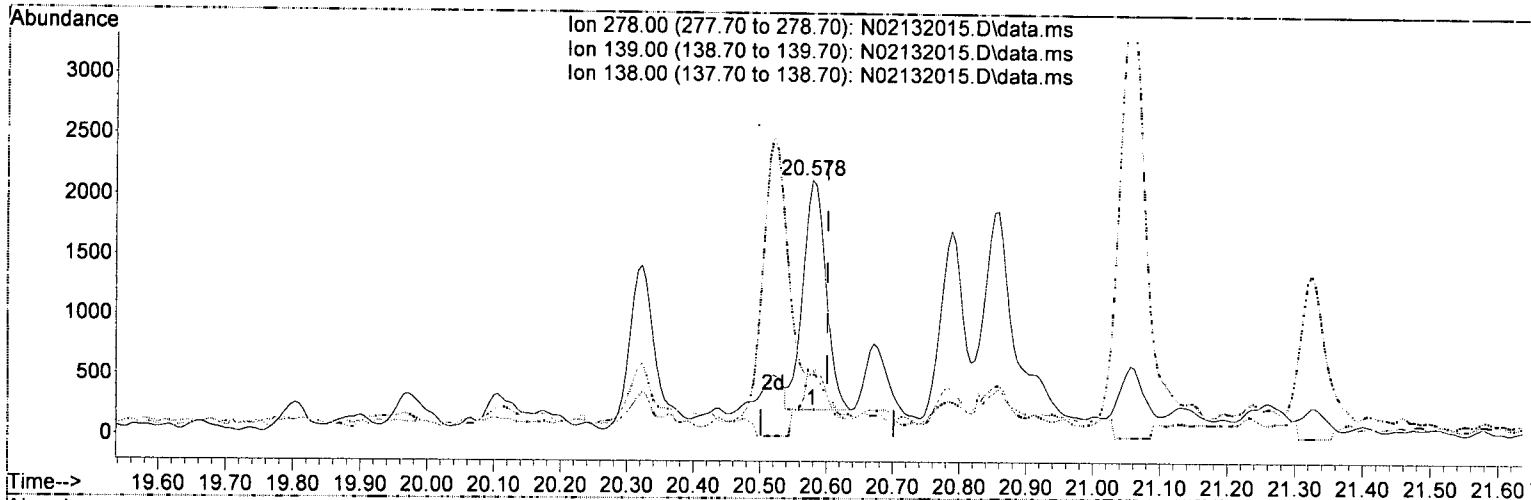
response 33041

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	19.63
138.00	31.60	19.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

(39) Dibenz(a,h)anthracene (T)

20.578min (-0.023) 2.99 ng/ml

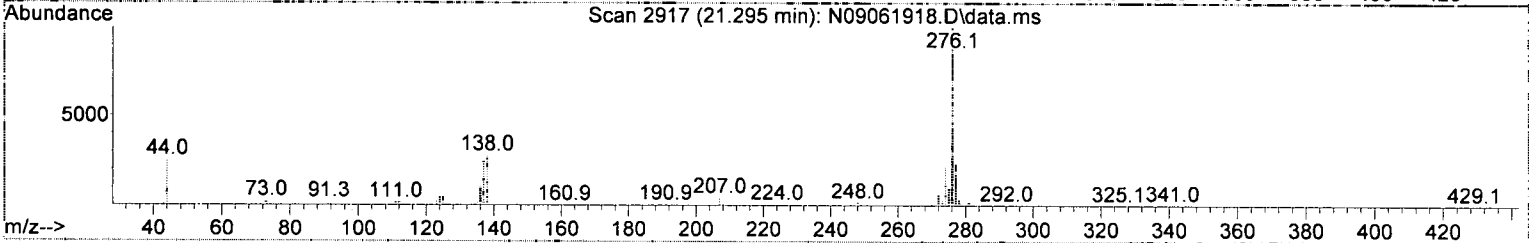
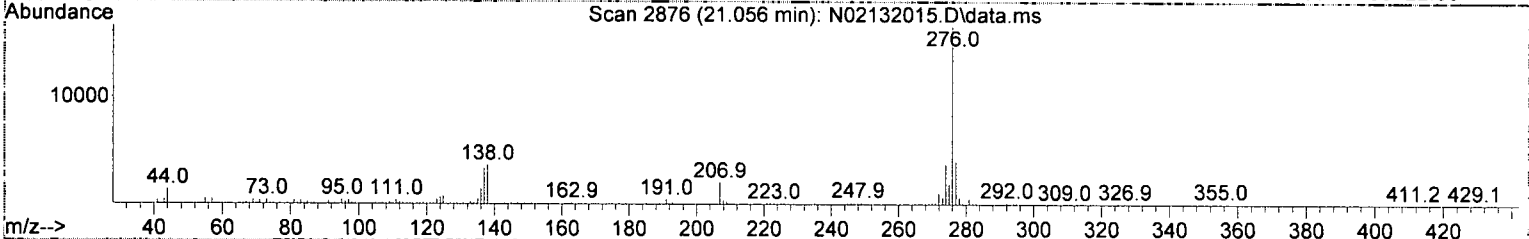
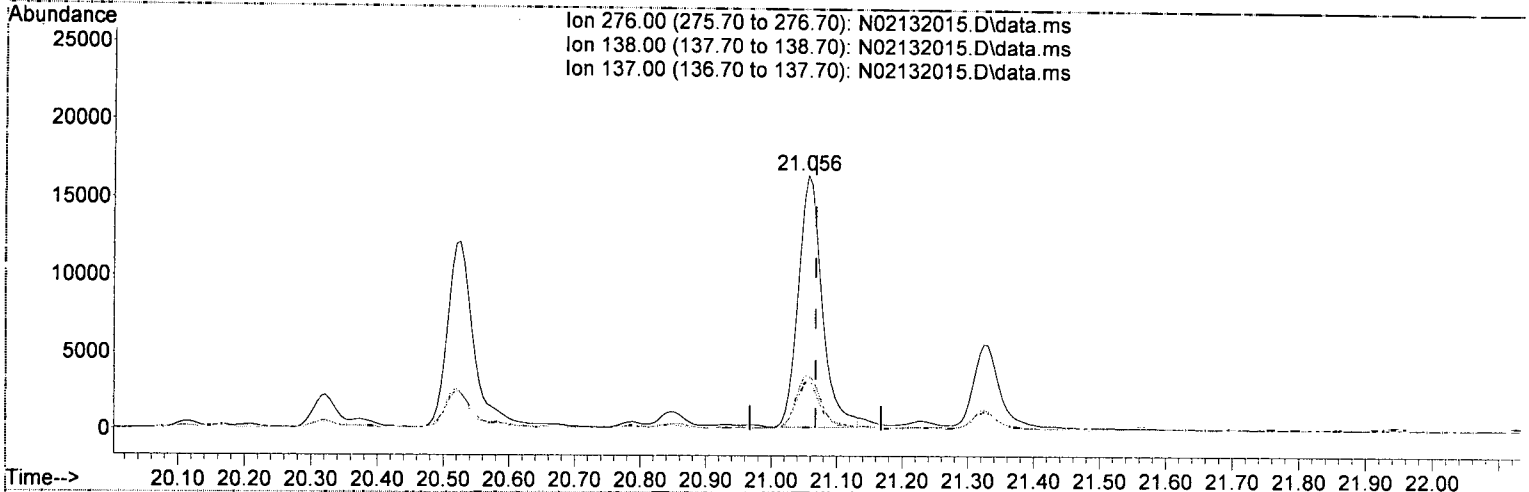
response 4651

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	30.32
138.00	19.90	23.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02132015.D\data.ms

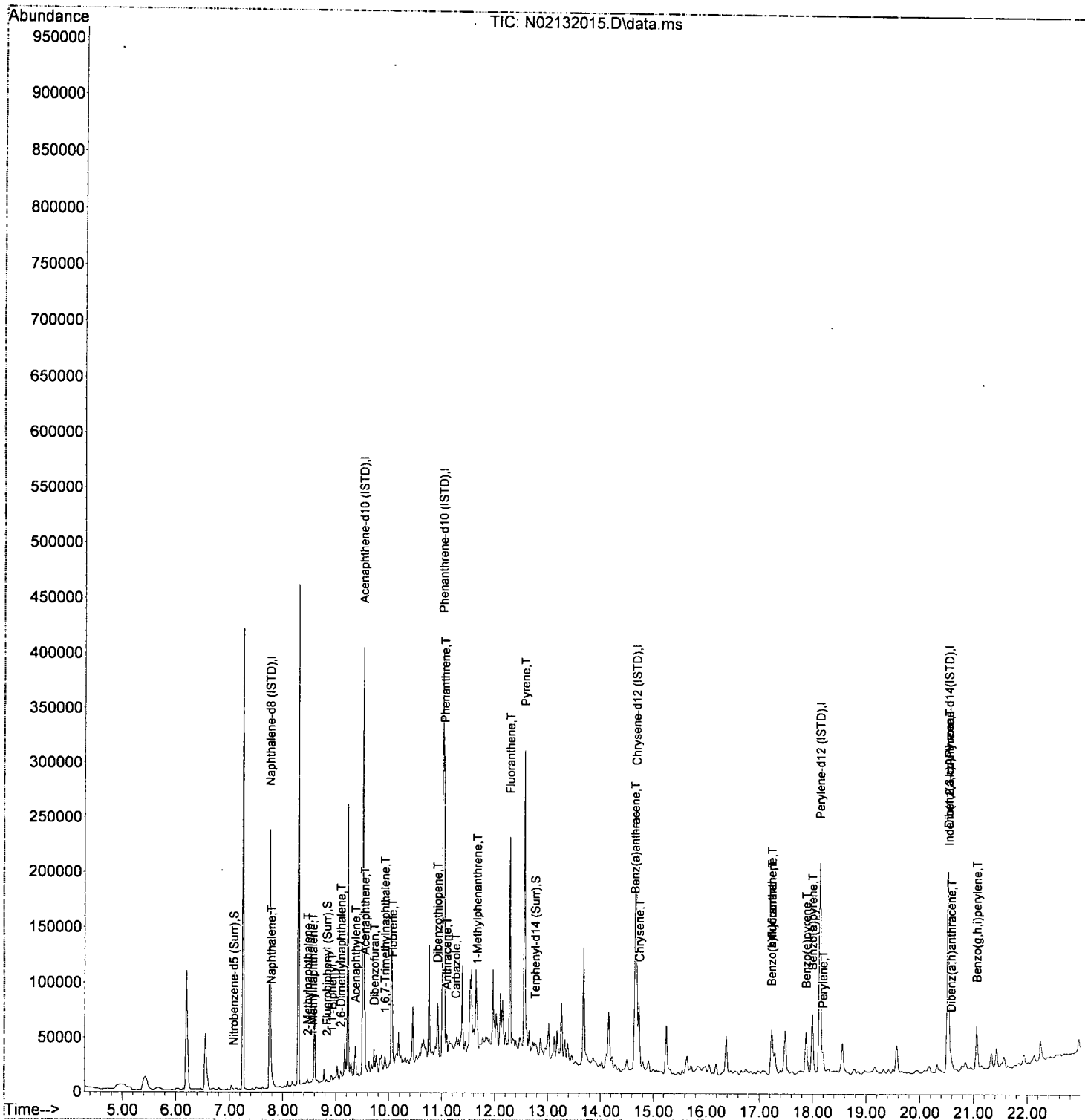
(40) Benzo(g,h,i)perylene (T)

21.056min (-0.012) 23.73 ng/ml

response	41635
Ion	Exp% Act%
276.00	100.00 100.00
138.00	21.00 21.90
137.00	18.60 20.03
0.00	0.00 0.00

Data Path : U:\data\2020-02\0B13031\
 Data File : N02132015.D
 Acq On : 13 Feb 2020 19:53
 Operator : JK/ AMS/ DTH
 Sample : 0020423-DUP2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:53 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B13031\
 Data File : N02132016.D
 Acq On : 13 Feb 2020 20:24
 Operator : JK/ AMS/ DTH
 Sample : 0020423-MS1@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:57 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

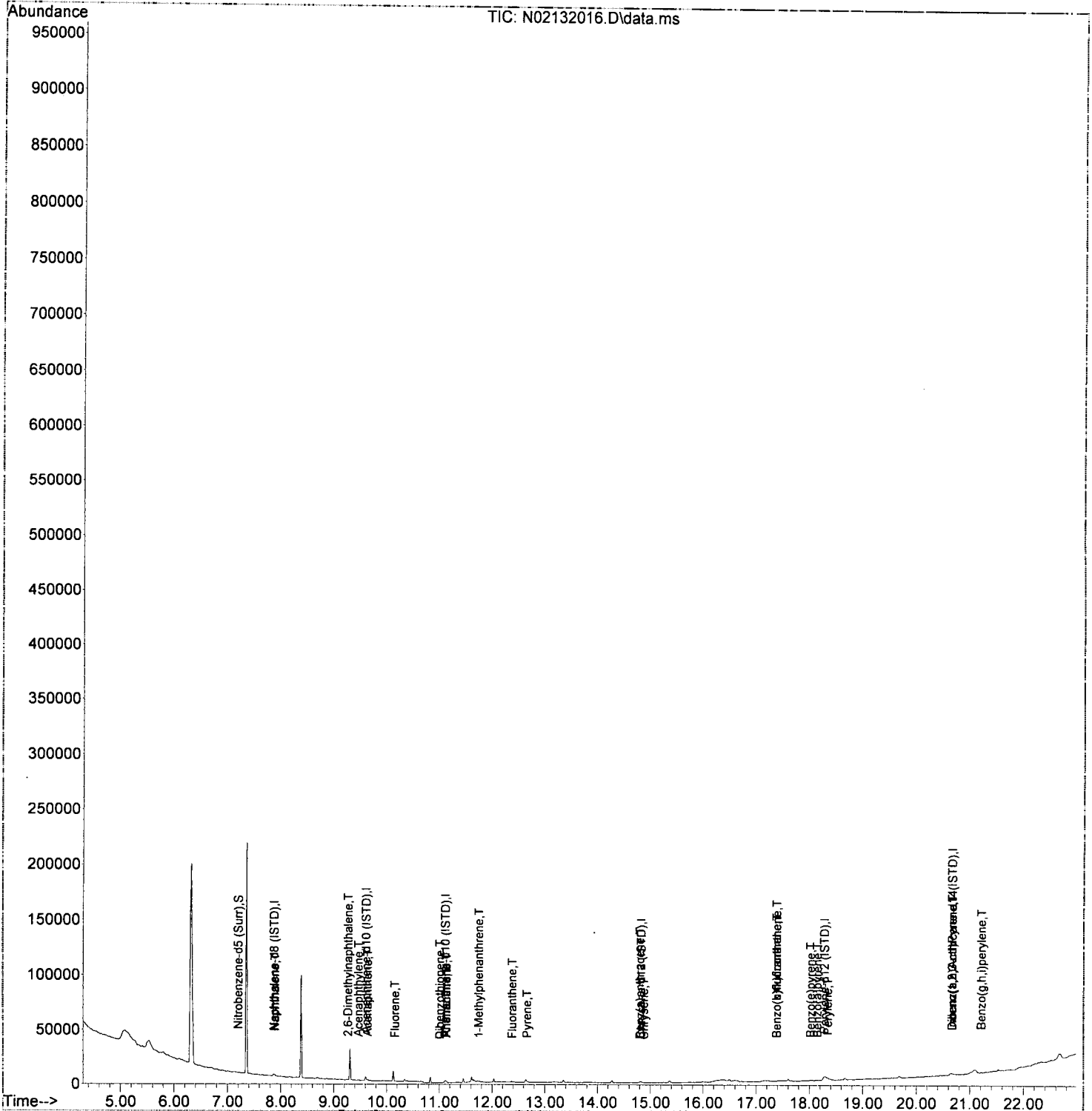
*Mis injection
 Do not use
 DTH 2/14/20*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.872	136	2449	100.00	ng/ml	0.11
9) Acenaphthene-d10 (ISTD)	9.603	162	1472	100.00	ng/ml	0.09
17) Phenanthrene-d10 (ISTD)	11.106	188	1913	100.00	ng/ml	0.09
24) Chrysene-d12 (ISTD)	14.819	240	1719	100.00	ng/ml	0.13
29) Perylene-d12 (ISTD)	18.276	264	1838	100.00	ng/ml	0.13
37) Dibenz(a,h)Anthracene-d...	20.665	292	1622	100.00	ng/ml	0.13
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.195	82	106	13.03	ng/ml	0.13
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	0.000	160	0	0.00	ng/ml	
26) Terphenyl-d14 (Surr)	0.000	244	0	0.00	ng/ml	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.889	128	302	11.18	ng/ml	68
5) 2-Methylnaphthalene	0.000		0	N.D.		
6) 1-Methylnaphthalene	0.000		0	N.D.		
7) 1,1'-Biphenyl	0.000		0	N.D.		
8) 2,6-Dimethylnaphthalene	9.265	156	108	4.80	ng/ml#	76
12) Acenaphthylene	9.463	152	165	5.16	ng/ml	72
13) Acenaphthene	9.638	153	331	15.81	ng/ml	82
14) Dibenzofuran	0.000		0	N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.		
16) Fluorene	10.156	166	156	7.28	ng/ml	78
18) Dibenzothiopene	11.002	184	103	5.15	ng/ml	66
19) Phenanthrene	11.130	178	1408	62.90	ng/ml	97
20) Anthracene	11.130	178	1467	70.45	ng/ml	97
21) Carbazole	0.000		0	N.D.		
22) 1-Methylphenanthrene	11.742	192	78	5.02	ng/ml#	48
23) Fluoranthene	12.377	202	805	35.69	ng/ml	92
25) Pyrene	12.657	202	954	35.52	ng/ml	93
27) Benz(a)anthracene	14.796	228	146	7.32	ng/ml	66
28) Chrysene	14.872	228	287	15.20	ng/ml	64
30) Benzo(b)fluoranthene	17.378	252	301	14.19	ng/ml	56
31) Benzo(k)fluoranthene	17.378	252	448	21.45	ng/ml	54
32) Benzo(b+k)fluoranthene	17.378	252	448	20.65	ng/ml	54
34) Benzo(e)pyrene	18.019	252	220	10.26	ng/ml	83
35) Benzo(a)pyrene	18.142	252	259	14.27	ng/ml	62
36) Perylene	18.340	252	78	3.49	ng/ml	50
38) Indeno(1,2,3-cd)Pyrene	20.665	276	166	8.30	ng/ml	77
39) Dibenz(a,h)anthracene	0.000		0	N.D.		
40) Benzo(g,h,i)perylene	21.207	276	254	11.97	ng/ml#	29

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

Data Path : U:\data\2020-02\0B13031\
Data File : N02132016.D
Acq On : 13 Feb 2020 20:24
Operator : JK/ AMS/ DTH
Sample : 0020423-MS1@100
Misc : 100x, 8270D PAH LL
ALS Vial : 9 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 13:51:57 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Benchsheet & Analysis Sequence Data**

Sequence 0B14025 (QC Only)



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0B14025**

Instrument: **SV-GCMS14**

Date: **02/14/20 12:11**

Calibration: **A911001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B14025-TUN1	Sediment	QC	QC			A19K048	A20B032
2	0B14025-CCV1	Sediment	QC	QC			A19K048	A19K012
3	0B14025-CCB1	Sediment	QC	QC			A19K048	
4	0020423-MS2	Sediment	QC	QC		0020423	A19K048	
5	0B14025-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: DT 2/14/20

Comments:

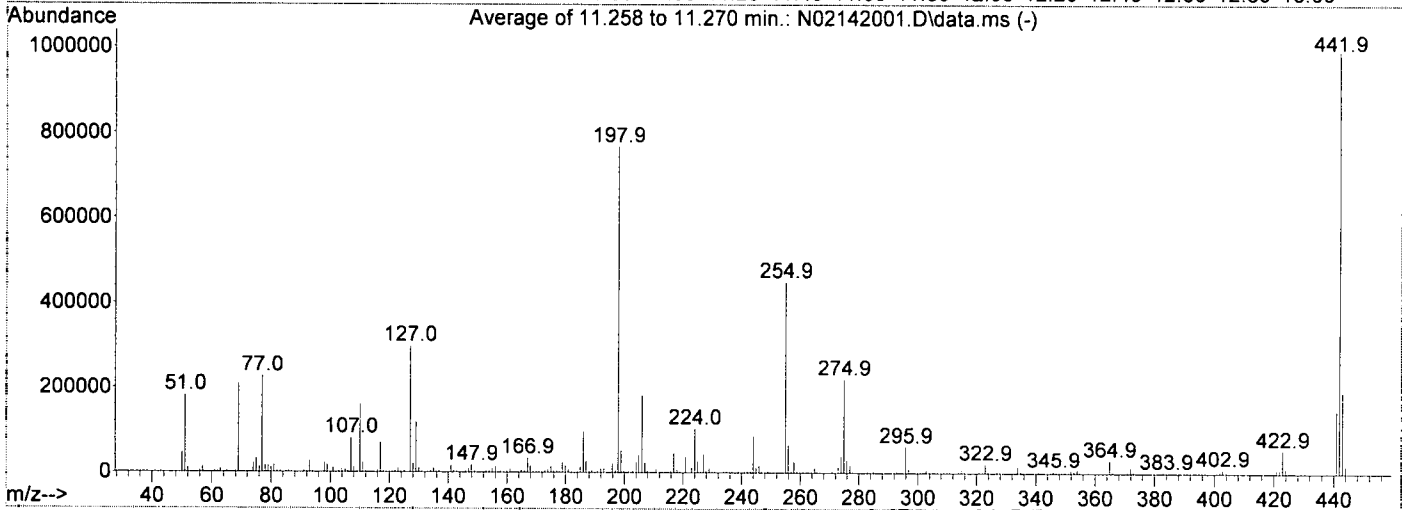
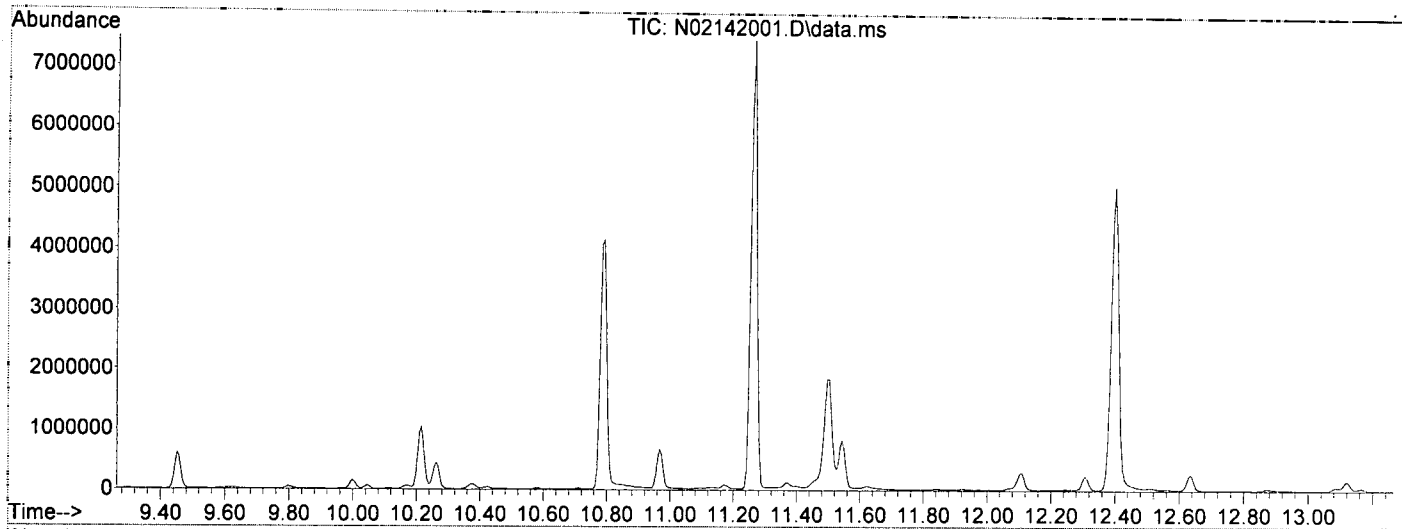
Data Reviewed By: QD 2/17/20

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142001.D
 Acq On : 14 Feb 2020 12:16
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-TUN1
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

OK 2/14/20

Method : U:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Tue Feb 04 07:34:06 2020



AutoFind: Scans 1195, 1196, 1197; Background Corrected with Scan 1189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3332	PASS
69	69	100	100	100.0	209445	PASS
70	69	0.00	2	0.5	1074	PASS
197	198	0.00	2	0.5	3989	PASS
198	198	100	100	100.0	766208	PASS
199	198	5	9	6.8	51919	PASS
365	198	1	100	4.0	30685	PASS
441	443	0.01	150	77.7	148947	PASS
442	198	0.10	200	129.3	990357	PASS
443	442	15	24	19.4	191787	PASS



Data Path : U:\data\2020-02\0B14025\
 Data File : N02142001.D
 Acq On : 14 Feb 2020 12:16
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-TUN1
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 14 12:37:28 2020
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14

777 2/14/20

Compound	R.T.	QI	Ion	Response	Conc	Units	Dev (Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.490	150		129710	2.00	ug/mL	0.00
2) Naphthalene-d8	7.691	136		341577	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.451	162		188514	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.967	188		348890	2.00	ug/mL	0.00
11) Chrysene-d12	14.569	240		289280	2.00	ug/mL	0.00
12) Perylene-d12	16.679	264		281970	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.862	292		253618	2.00	ug/mL	# 0.00
Target Compounds							
4) Pentachlorophenol	10.792	266		842776	47.34	ug/mL	Qvalue 82
6) DFTPP	11.264	442		1504599	53.42	ug/mL	79
7) Benzidine	12.400	184		3574062	28.80	ug/mL	98
8) 4,4-DDE	12.634	TIC		368556	No Calib		
9) 4,4-DDD	13.117	TIC		255225	No Calib		
10) 4,4-DDT	13.642	TIC		12470975	34.86	ug/mL	95

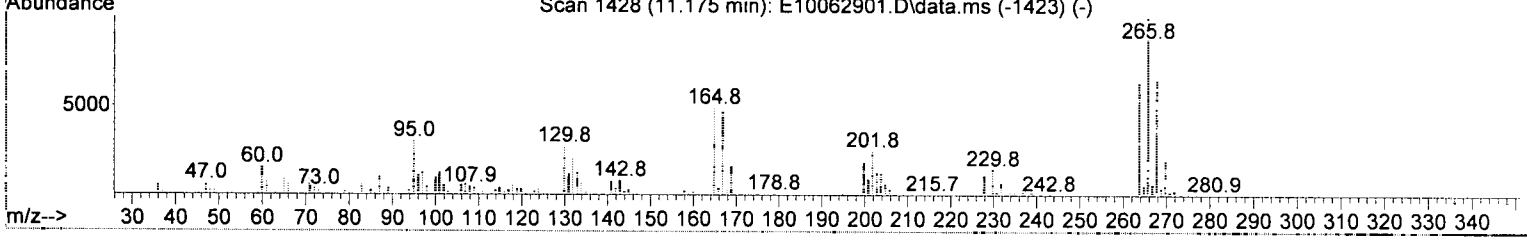
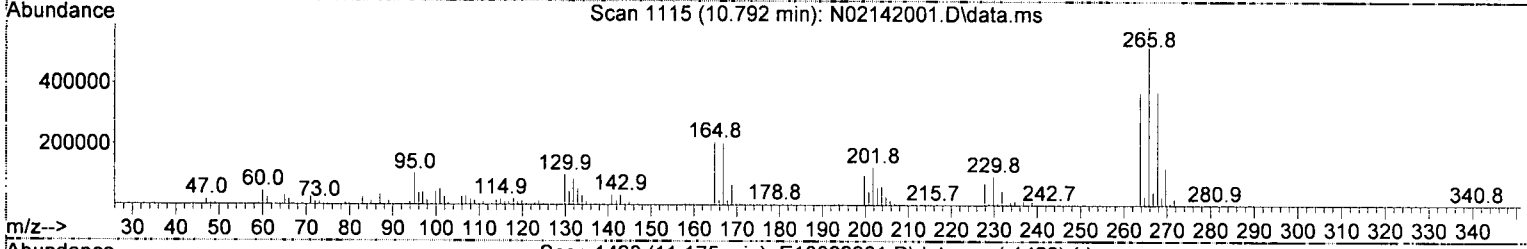
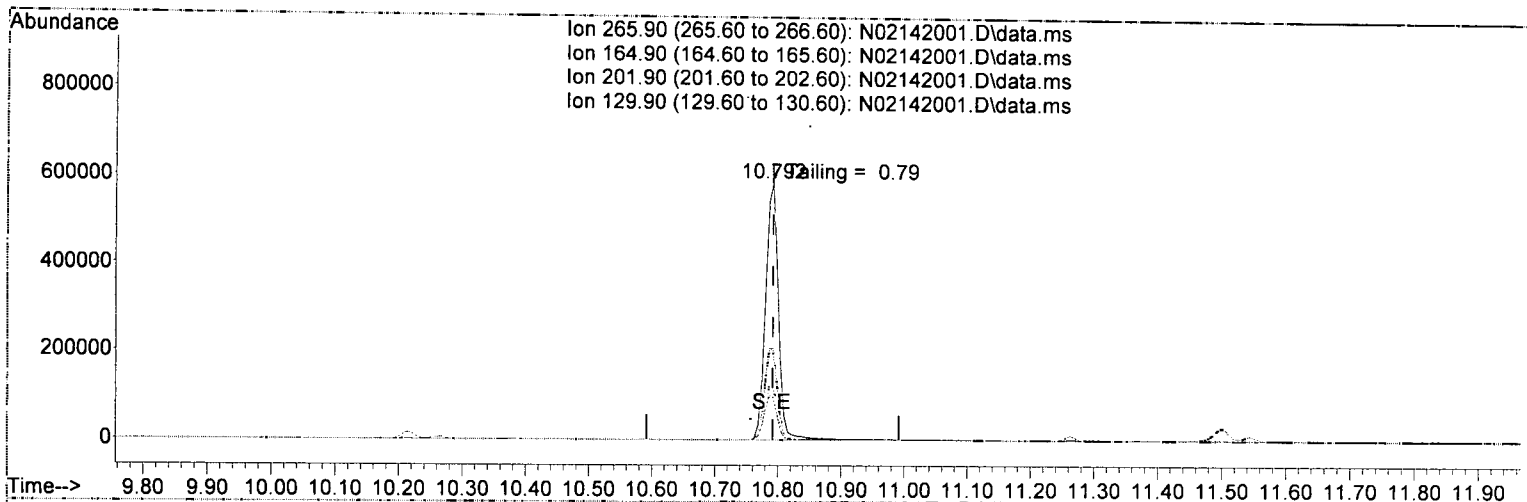
(#) = qualifier out of range (m) = manual integration (+) = signals summed

✓

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142001.D
 Acq On : 14 Feb 2020 12:16
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-TUN1
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 14 12:37:28 2020
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02142001.D\data.ms

(4) Pentachlorophenol

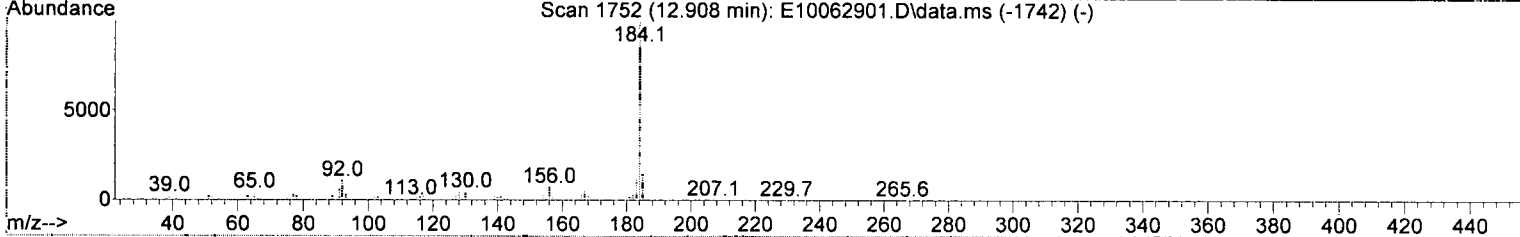
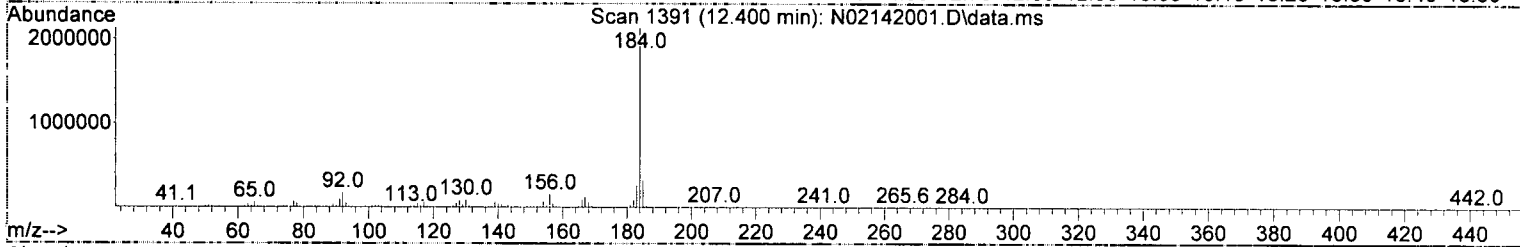
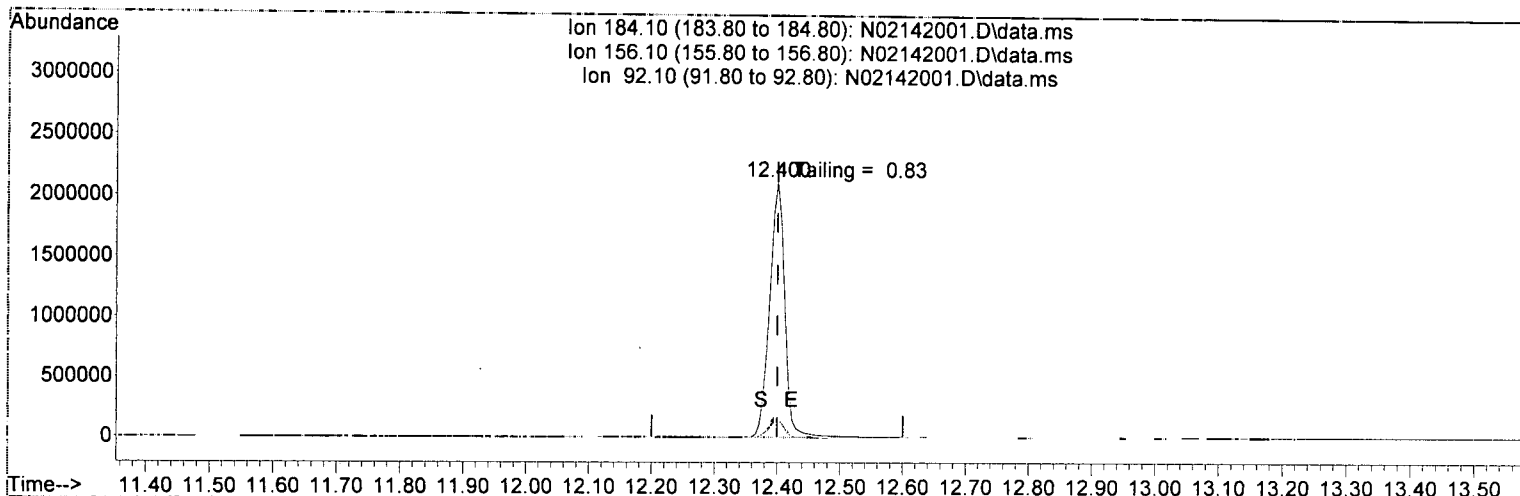
10.792min (+ 0.000) 47.34 ug/mL

response	842776
Ion	Exp% Act%
265.90	100.00 100.00
164.90	50.60 35.27
201.90	25.80 21.16
129.90	27.30 16.75

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142001.D
 Acq On : 14 Feb 2020 12:16
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-TUN1
 Misc : 1x, A20B032 DFTPP
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Feb 14 12:37:28 2020
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Tue Feb 04 07:34:06 2020
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02142001.D\data.ms

(7) Benzidine

12.400min (+ 0.000) 28.80 ug/mL

response 3574062

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.04
92.10	8.20	7.96
0.00	0.00	0.00

✓

DDT Breakdown Check (Validated 5/1/2013)

From:

OB14025-TUN1

SV-GCMS14

First Column Area Counts	Percent Breakdown
--------------------------	-------------------

DDE	368556
-----	--------

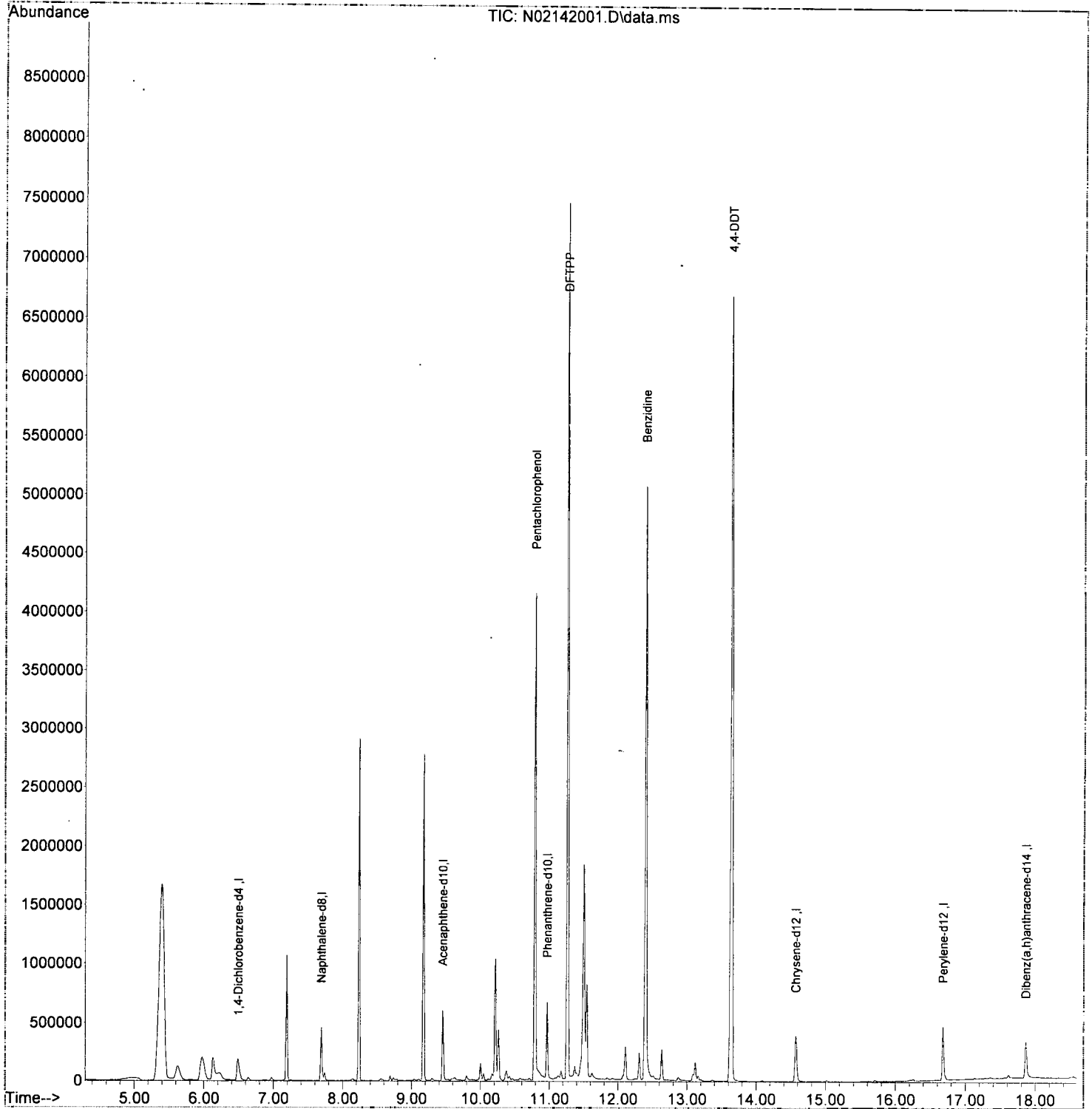
DDD	255225
-----	--------

DDT	12470975	4.76	PASS
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Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2020-02\0B14025\
Data File : N02142001.D
Acq On : 14 Feb 2020 12:16
Operator : JK/ AMS/ DTH
Sample : 0B14025-TUN1
Misc : 1x, A20B032 DFTPP
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Feb 14 12:37:28 2020
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Tue Feb 04 07:34:06 2020
Response via : Initial Calibration
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142002.D
 Acq On : 14 Feb 2020 12:44
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-CCV1
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:29:49 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

DTH 2/14/20

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I Naphthalene-d8 (ISTD)	100.000	100.000	0.0	120	0.00
2 S Nitrobenzene-d5 (Surr)	50.000	46.594	6.8	115	0.00
3 T Decalin	50.000	22.911	54.2#	55	0.00
4 T Naphthalene	50.000	48.749	2.5	119	0.00
5 T 2-Methylnaphthalene	50.000	41.213	17.6	98	0.00
6 T 1-Methylnaphthalene	50.000	41.504	17.0	97	0.00
7 T 1,1'-Biphenyl	50.000	38.604	22.8#	93	0.00
8 T 2,6-Dimethylnaphthalene	50.000	38.674	22.7#	91	0.00
9 I Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	93	0.00
10 S 2-Fluorobiphenyl (Surr)	50.000	51.973	-3.9	97	0.00
11 S Acenaphthylene d-8 (Surr)	50.000	1.293	97.4#	5	0.00
12 T Acenaphthylene	50.000	47.788	4.4	89	0.00
13 T Acenaphthene	50.000	48.131	3.7	91	0.00
14 T Dibenzofuran	50.000	48.454	3.1	90	0.00
15 T 1,6,7-Trimethylnaphthalene	50.000	47.588	4.8	90	0.00
16 T Fluorene	50.000	46.781	6.4	88	0.00
17 I Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	90	0.00
18 T Dibenzothiopene	50.000	48.467	3.1	88	0.00
19 T Phenanthrene	50.000	47.358	5.3	87	0.00
20 T Anthracene	50.000	46.151	7.7	84	0.00
21 T Carbazole	50.000	42.634	14.7	78	0.00
22 T 1-Methylphenanthrene	50.000	47.790	4.4	87	0.00
23 T Fluoranthene	50.000	47.092	5.8	85	0.00
24 I Chrysene-d12 (ISTD)	100.000	100.000	0.0	91	-0.02
25 T Pyrene	50.000	47.550	4.9	86	0.00
26 S Terphenyl-d14 (Surr)	50.000	46.493	7.0	85	-0.01
27 T Benz(a)anthracene	50.000	43.591	12.8	84	-0.01
28 T Chrysene	50.000	46.981	6.0	86	-0.02
29 I Perylene-d12 (ISTD)	100.000	100.000	0.0	99	-0.01
30 T Benzo(b)fluoranthene	50.000	46.650	6.7	92	-0.01
31 T Benzo(k)fluoranthene	50.000	47.026	5.9	95	-0.01
32 T Benzo(b+k)fluoranthene	100.000	95.360	4.6	95	-0.01
33 S Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-17.96#
34 T Benzo(e)pyrene	50.000	46.630	6.7	94	-0.01
35 T Benzo(a)pyrene	50.000	46.334	7.3	90	-0.01
36 T Perylene	50.000	48.938	2.1	97	-0.01
37 I Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	120	-0.02
38 T Indeno(1,2,3-cd)Pyrene	50.000	44.427	11.1	107	-0.02
39 T Dibenz(a,h)anthracene	50.000	49.174	1.7	120	-0.02
40 T Benzo(g,h,i)perylene	50.000	45.449	9.1	107	-0.01

(#) = Out of Range

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

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142002.D
 Acq On : 14 Feb 2020 12:44
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-CCV1
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:29:49 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

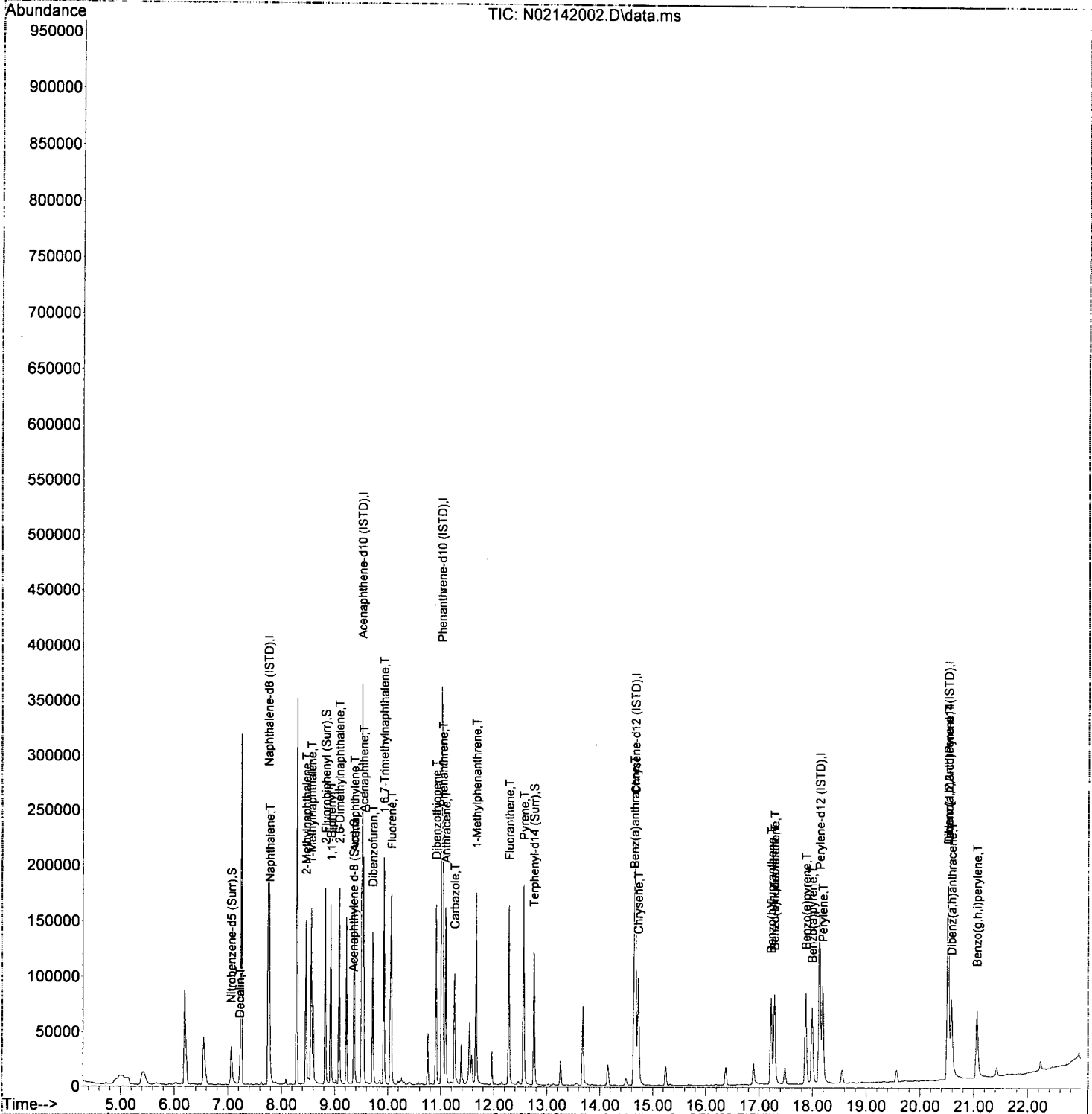
OK 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.755	136	178454	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	109790	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.013	188	197889	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.668	240	153903	100.00	ng/ml	-0.02	
29) Perylene-d12 (ISTD)	18.130	264	141423	100.00	ng/ml	-0.01	
37) Dibenz(a,h)Anthracene-d...	20.514	292	111873	100.00	ng/ml	-0.02	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.061	82	27630	46.59	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.821	172	85126	51.97	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.352	160	6037	1.29	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.756	244	75256	46.49	ng/ml	-0.01	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.224	138	3044	22.91	ng/ml		93
4) Naphthalene	7.778	128	95949	48.75	ng/ml		100
5) 2-Methylnaphthalene	8.460	142	68738	41.21	ng/ml		97
6) 1-Methylnaphthalene	8.559	142	69210	41.50	ng/ml		96
7) 1,1'-Biphenyl	8.926	154	86596	38.60	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.084	156	63356	38.67	ng/ml		98
12) Acenaphthylene	9.364	152	113904	47.79	ng/ml		98
13) Acenaphthene	9.538	153	75140	48.13	ng/ml		99
14) Dibenzofuran	9.713	168	94748	48.45	ng/ml		97
15) 1,6,7-Trimethylnaphtha...	9.923	170	62306	47.59	ng/ml		96
16) Fluorene	10.063	166	74734	46.78	ng/ml		99
18) Dibenzothiopene	10.908	184	100311	48.47	ng/ml		96
19) Phenanthrene	11.036	178	109663	47.36	ng/ml		100
20) Anthracene	11.089	178	99405	46.15	ng/ml		99
21) Carbazole	11.258	167	74305	42.63	ng/ml		98
22) 1-Methylphenanthrene	11.666	192	76876	47.79	ng/ml		99
23) Fluoranthene	12.284	202	109869	47.09	ng/ml		96
25) Pyrene	12.563	202	114333	47.55	ng/ml		99
27) Benz(a)anthracene	14.650	228	77891	43.59	ng/ml		100
28) Chrysene	14.726	228	79442	46.98	ng/ml		100
30) Benzo(b)fluoranthene	17.221	252	76126	46.65	ng/ml		93
31) Benzo(k)fluoranthene	17.285	252	75557	47.03	ng/ml		93
32) Benzo(b+k)fluoranthene	17.285	252	159172	95.36	ng/ml		93
34) Benzo(e)pyrene	17.873	252	76944	46.63	ng/ml		97
35) Benzo(a)pyrene	17.990	252	64717	46.33	ng/ml		96
36) Perylene	18.188	252	84190	48.94	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.520	276	61298	44.43	ng/ml		80
39) Dibenz(a,h)anthracene	20.584	278	63751	49.17	ng/ml		82
40) Benzo(g,h,i)perylene	21.056	276	66521	45.45	ng/ml		98

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

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142002.D
 Acq On : 14 Feb 2020 12:44
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-CCV1
 Misc : 1x, A19K012@50
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LV114_BNA_ACQ.M

Quant Time: Feb 14 17:29:49 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B14025\
 Data File : N02142003.D
 Acq On : 14 Feb 2020 13:16
 Operator : JK/ AMS/ DTH
 Sample : 0B14025-CCB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:30:28 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

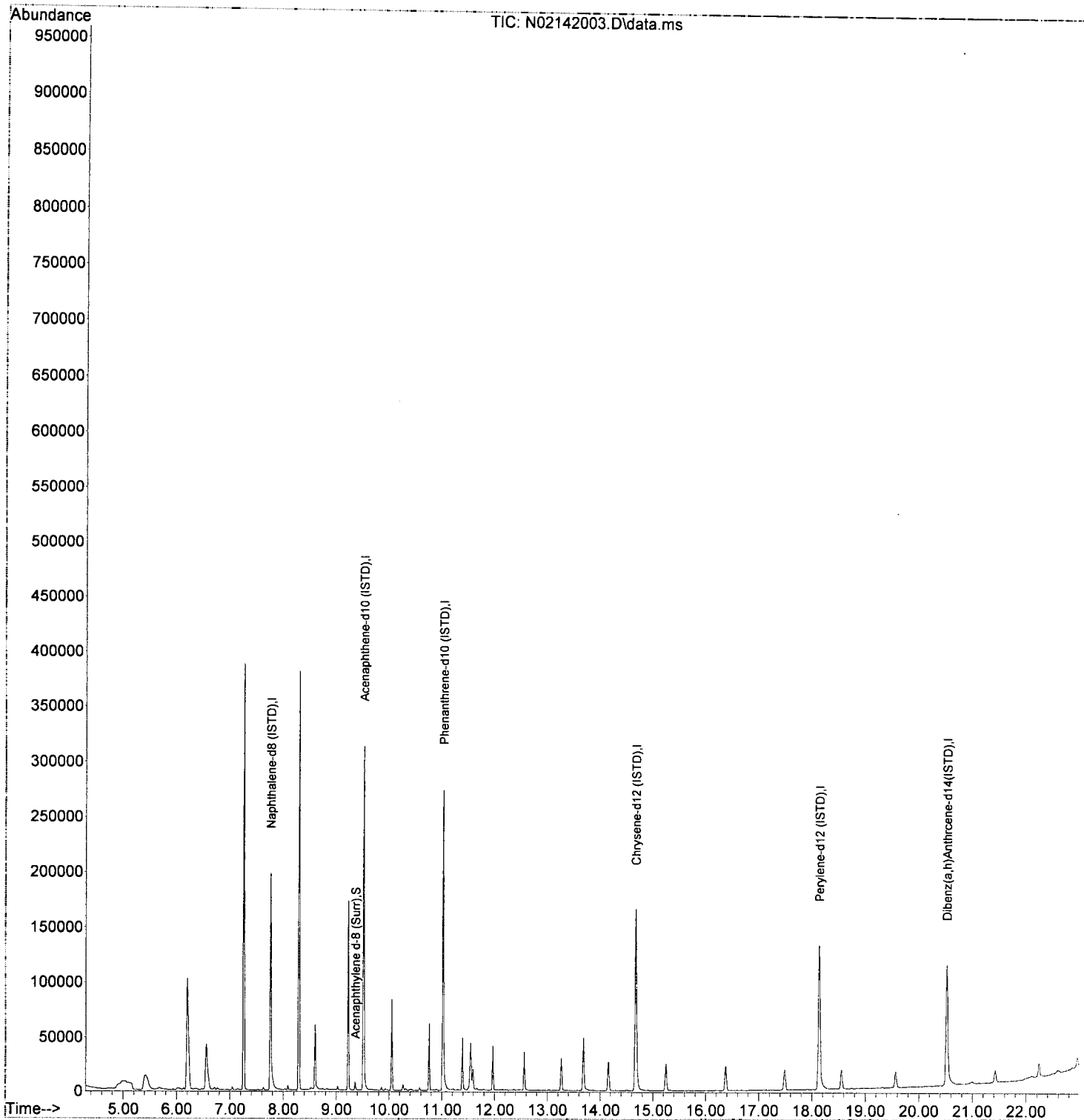
OK 2/14/20

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.761	136	163061	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.509	162	101683	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.019	188	169464	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.674	240	136821	100.00	ng/ml	-0.01	
29) Perylene-d12 (ISTD)	18.136	264	125758	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.520	292	104517	100.00	ng/ml	-0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	0.000	82	0	0.00	ng/ml		
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.358	160	5338	1.17	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.768	244	61	0.04	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0		N.D.		Qvalue
4) Naphthalene	7.784	128	102		N.D.		
5) 2-Methylnaphthalene	0.000		0		N.D.		
6) 1-Methylnaphthalene	0.000		0		N.D.		
7) 1,1'-Biphenyl	0.000		0		N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0		N.D.		
12) Acenaphthylene	0.000		0		N.D.		
13) Acenaphthene	0.000		0		N.D.		
14) Dibenzofuran	0.000		0		N.D.		
15) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.		
16) Fluorene	0.000		0		N.D.		
18) Dibenzothiopene	0.000		0		N.D.		
19) Phenanthrene	11.019	178	62		N.D.		
20) Anthracene	0.000		0		N.D.		
21) Carbazole	11.544	167	238		N.D.		
22) 1-Methylphenanthrene	0.000		0		N.D.		
23) Fluoranthene	0.000		0		N.D.		
25) Pyrene	0.000		0		N.D.		
27) Benz(a)anthracene	14.674	228	368		N.D.		
28) Chrysene	14.674	228	357		N.D.		
30) Benzo(b)fluoranthene	0.000		0		N.D.		
31) Benzo(k)fluoranthene	0.000		0		N.D.		
32) Benzo(b+k)fluoranthene	0.000		0		N.D.		
34) Benzo(e)pyrene	18.130	252	395		N.D.		
35) Benzo(a)pyrene	0.000		0		N.D.		
36) Perylene	18.130	252	416		N.D.		
38) Indeno(1,2,3-cd)Pyrene	0.000		0		N.D.		
39) Dibenz(a,h)anthracene	0.000		0		N.D.		
40) Benzo(g,h,i)perylene	0.000		0		N.D.		

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

Data Path : U:\data\2020-02\0B14025\
Data File : N02142003.D
Acq On : 14 Feb 2020 13:16
Operator : JK/ AMS/ DTH
Sample : 0B14025-CCB1
Misc : 1x, DCM + ISTD
ALS Vial : 3 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:30:28 2020
Quant Method : U:\methods\SV14_090619_PAHR7.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Fri Dec 20 12:46:03 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : U:\data\2020-02\0B14025\
 Data File : N02142004.D
 Acq On : 14 Feb 2020 14:13
 Operator : JK/ AMS/ DTH
 Sample : 0020423-MS2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:30:31 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

DTH 2/14/20

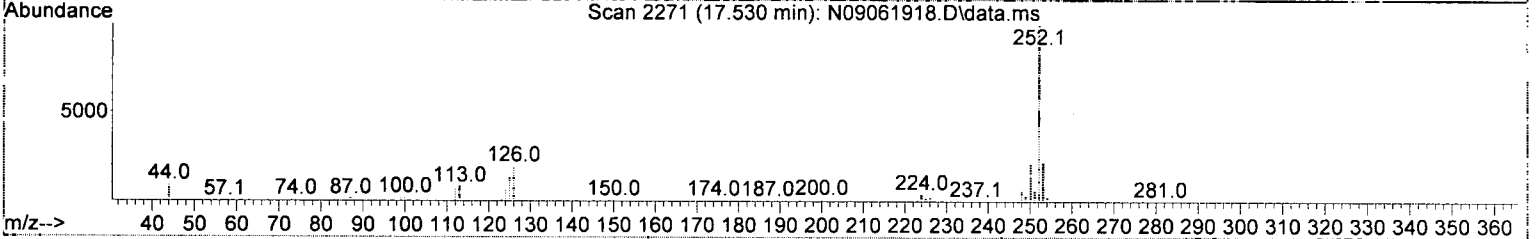
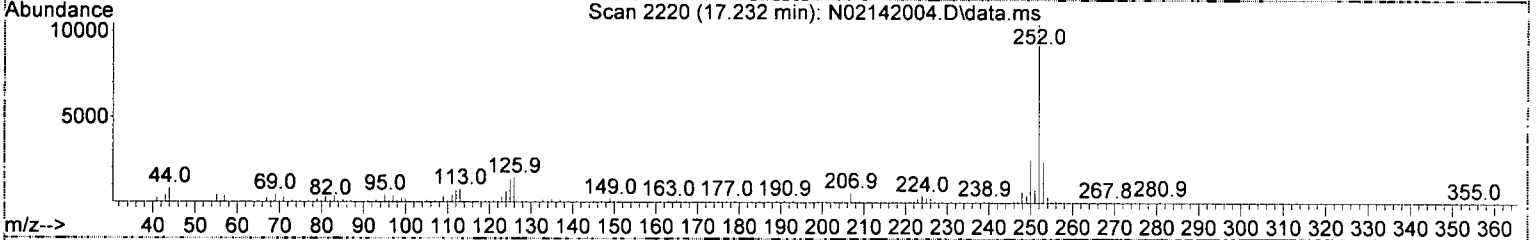
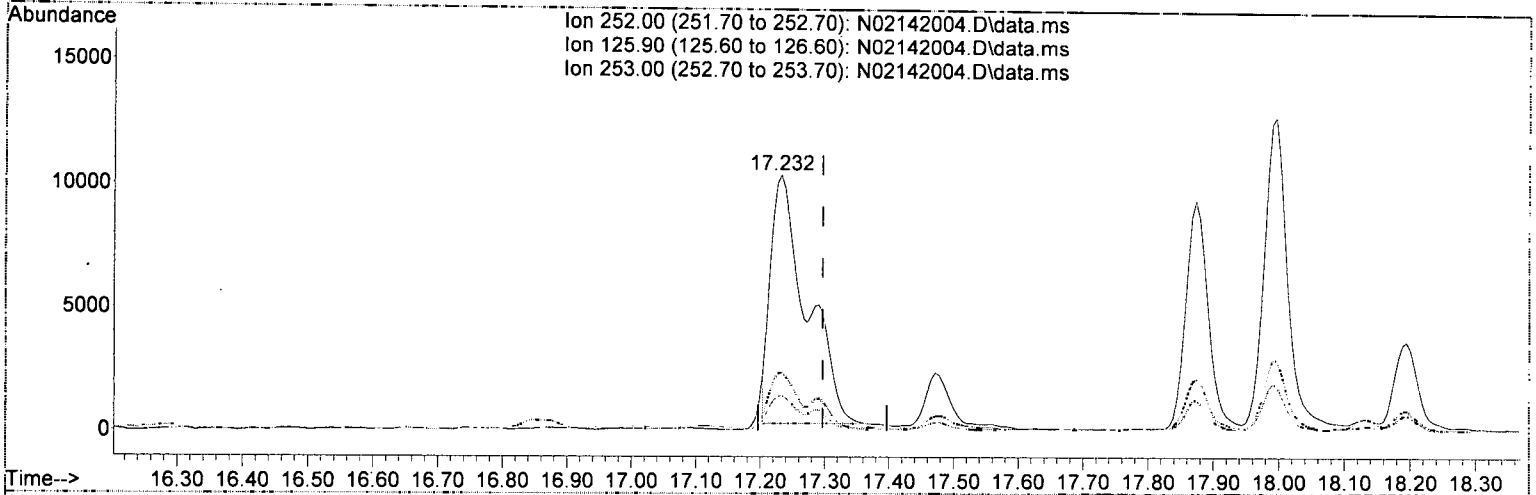
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.755	136	189035	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.509	162	115281	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.013	188	217497	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.673	240	192564	100.00	ng/ml	-0.01
29) Perylene-d12 (ISTD)	18.136	264	189489	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.520	292	153267	100.00	ng/ml	-0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.073	82	596	0.95	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.827	172	1350	0.78	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.352	160	4749	0.60	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.762	244	1782	0.88	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.778	128	17799	8.54	ng/ml	100
5) 2-Methylnaphthalene	8.460	142	4416	2.50	ng/ml	99
6) 1-Methylnaphthalene	8.559	142	2916	1.65	ng/ml	96
7) 1,1'-Biphenyl	8.926	154	1949	0.82	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.090	156	2805	1.62	ng/ml	95
12) Acenaphthylene	9.364	152	10946	4.37	ng/ml	94
13) Acenaphthene	9.538	153	25913	15.81	ng/ml	100
14) Dibenzofuran	9.719	168	3354	1.63	ng/ml	82
15) 1,6,7-Trimethylnaphtha...	9.929	170	4645	3.38	ng/ml	94
16) Fluorene	10.063	166	15706	9.36	ng/ml	98
18) Dibenzothiopene	10.914	184	17370	7.64	ng/ml	97
19) Phenanthrene	11.042	178	142455	55.97	ng/ml	100
20) Anthracene	11.095	178	12204	5.16	ng/ml	95
21) Carbazole	11.264	167	1818	0.95	ng/ml	62
22) 1-Methylphenanthrene	11.666	192	10125	5.73	ng/ml	94
23) Fluoranthene	12.284	202	98479	38.40	ng/ml	97
25) Pyrene	12.563	202	122208	40.62	ng/ml	99
27) Benz(a)anthracene	14.650	228	28328	12.67	ng/ml	74
28) Chrysene	14.732	228	35306	16.69	ng/ml	95
30) Benzo(b)fluoranthene	17.232	252	31694	14.50	ng/ml	91
31) Benzo(k)fluoranthene	17.232	252	39601	18.40	ng/ml	90 <i>mf</i>
32) Benzo(b+k)fluoranthene	17.232	252	45805	20.48	ng/ml	90
34) Benzo(e)pyrene	17.873	252	22574	10.21	ng/ml	98
35) Benzo(a)pyrene	17.996	252	30073	16.07	ng/ml	96
36) Perylene	18.194	252	9298	4.03	ng/ml	96
38) Indeno(1,2,3-cd)Pyrene	20.525	276	22276	11.78	ng/ml	85
39) Dibenz(a,h)anthracene	20.584	278	3139	1.77	ng/ml	93
40) Benzo(g,h,i)perylene	21.062	276	27549	13.74	ng/ml	95

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

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142004.D
 Acq On : 14 Feb 2020 14:13
 Operator : JK/ AMS/ DTH
 Sample : 0020423-MS2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:30:31 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



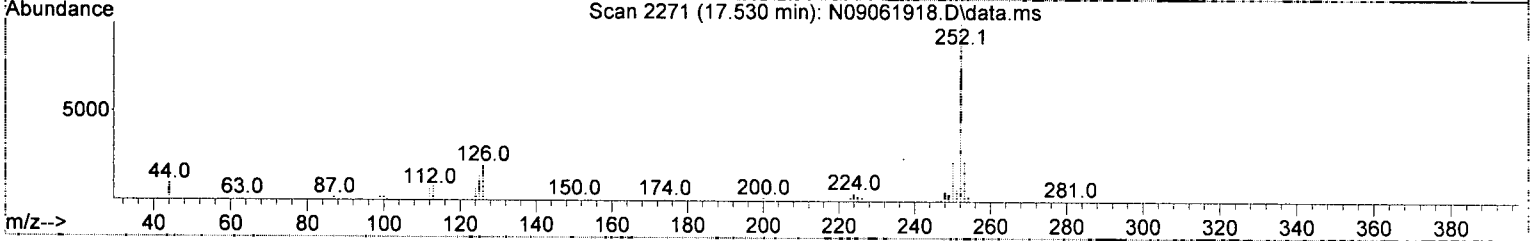
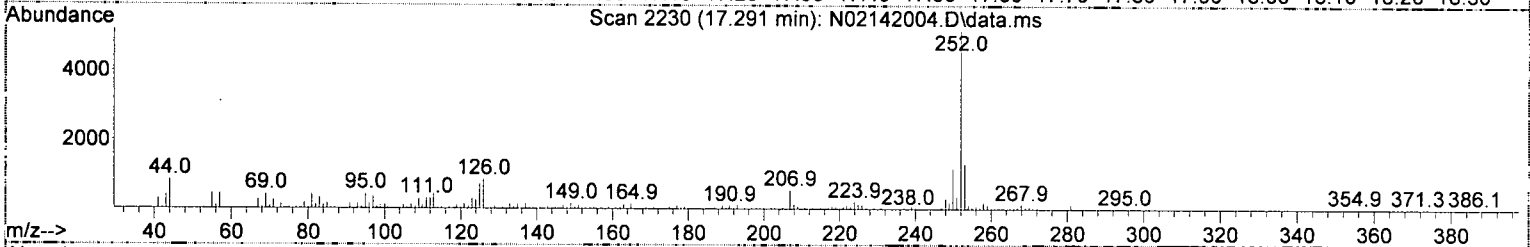
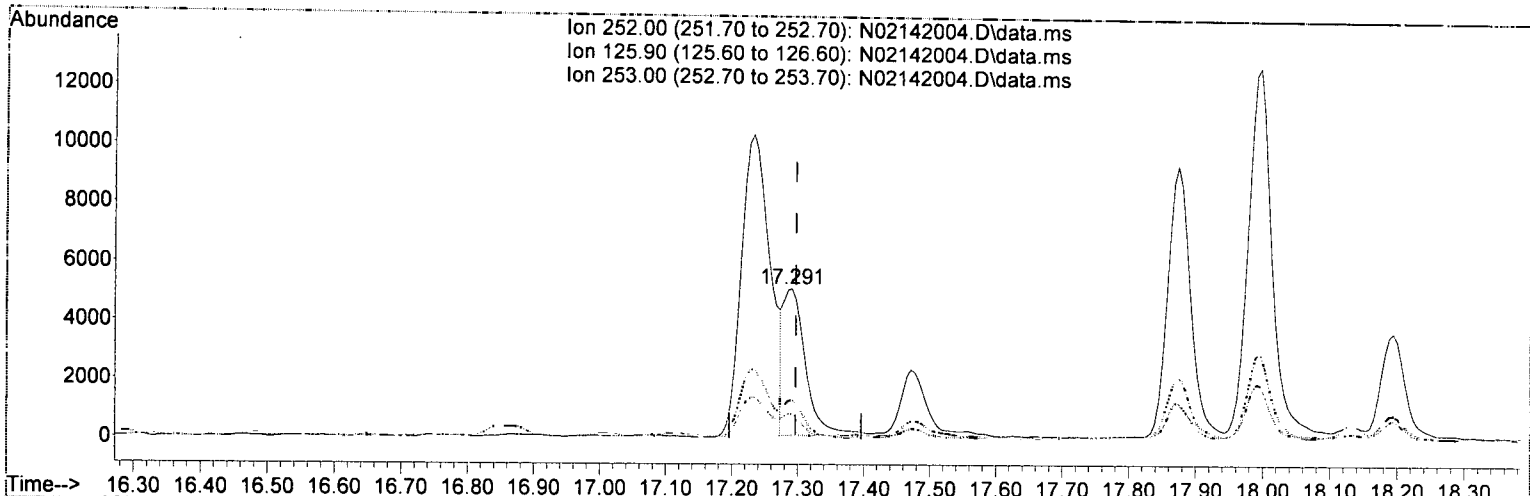
TIC: N02142004.D\data.ms

(31) Benzo(k)fluoranthene (T)		
17.232min (-0.064)	18.40 ng/ml	<i>MSI</i>
response	39601	✓
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.69
253.00	21.50	22.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142004.D
 Acq On : 14 Feb 2020 14:13
 Operator : JK/ AMS/ DTH
 Sample : 0020423-MS2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:30:31 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N02142004.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.291min (-0.006) 5.40 ng/ml ^(m)

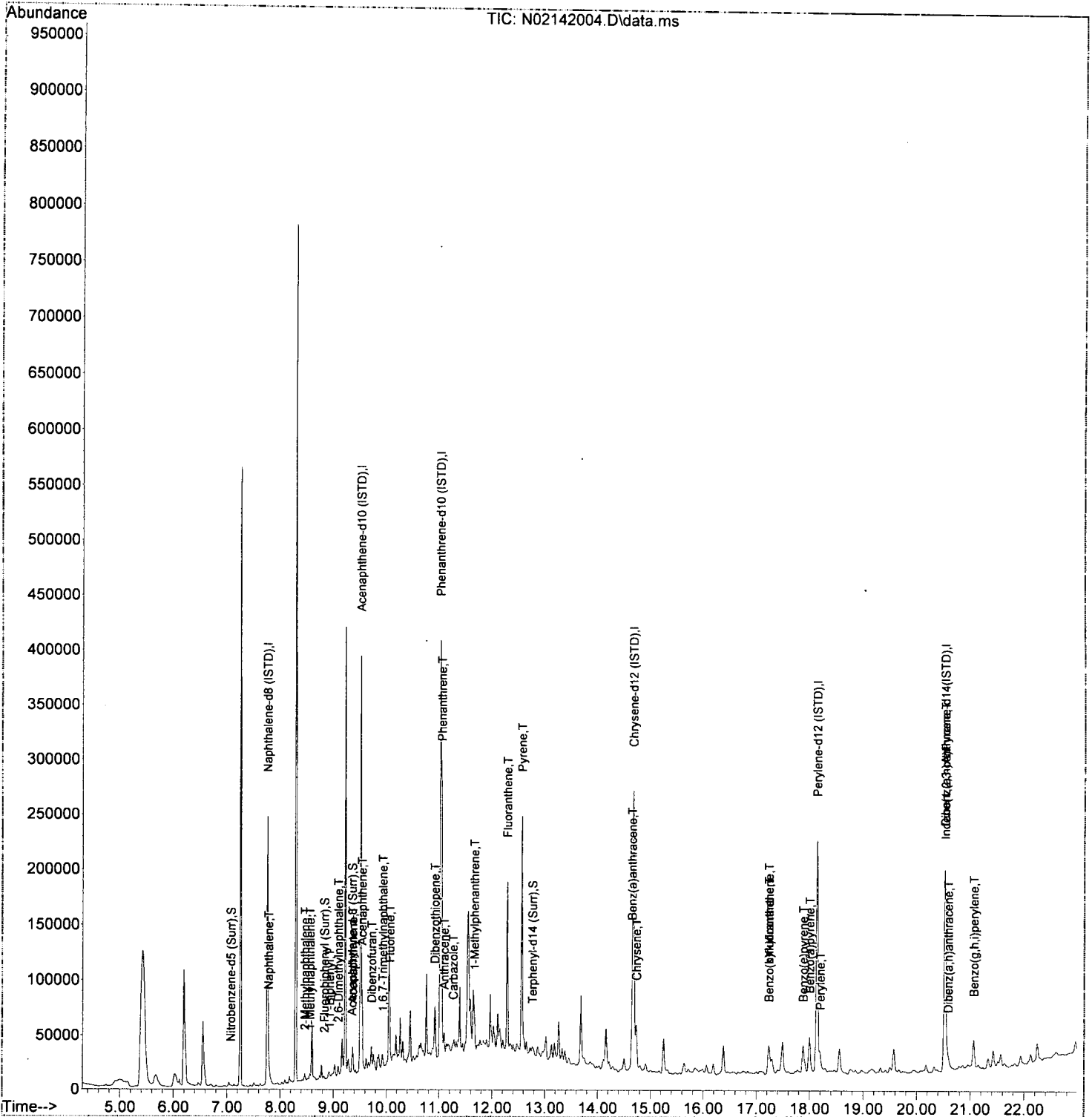
response 11627

DTH 2/14/20 ✓

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.63
253.00	21.50	25.74
0.00	0.00	0.00

Data Path : U:\data\2020-02\0B14025\
 Data File : N02142004.D
 Acq On : 14 Feb 2020 14:13
 Operator : JK/ AMS/ DTH
 Sample : 0020423-MS2@100
 Misc : 100x, 8270D PAH LL
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Feb 14 17:30:31 2020
 Quant Method : U:\methods\SV14_090619_PAHR7.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Fri Dec 20 12:46:03 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



**Semivolatile Organic Compounds (PAHs) by EPA 8270D
Calibration Data**

Sequence 9106028 (Cal ID A9I1001) SV-GCMS14



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9I06028**

Instrument: **SV-GCMS14**

Date: **09/06/19 15:37**

Calibration: **A9I1001**

#	<u>Lab Number</u>	<u>Matrix</u>	<u>Analysis</u>	<u>Client</u>	<u>Due</u>	<u>Batch</u>	<u>ISTD ID</u>	<u>STD ID</u>
1	9I06028-TUN1	Sediment	QC	QC			A19I102	A19H414
2	9I06028-ICB1	Sediment	QC	QC			A19I102	
3	9I06028-CAL1	Sediment	QC	QC			A19I102	A19I015
4	9I06028-CAL2	Sediment	QC	QC			A19I102	A19I016
5	9I06028-CAL3	Sediment	QC	QC			A19I102	A19I017
6	9I06028-CAL4	Sediment	QC	QC			A19I102	A19I018
7	9I06028-CAL5	Sediment	QC	QC			A19I102	A19I019
8	9I06028-CAL6	Sediment	QC	QC			A19I102	A19I020
9	9I06028-CAL7	Sediment	QC	QC			A19I102	A19I021
10	9I06028-CAL8	Sediment	QC	QC			A19I102	A19I022
11	9I06028-CAL9	Sediment	QC	QC			A19I102	A19I023
12	9I06028-CALA	Sediment	QC	QC			A19I102	A19I024
13	9I06028-IBL1	Sediment	QC	QC			A19I102	
14	9I06028-ICV1	Sediment	QC	QC			A19I102	A19I025
15	9I06028-IBL2	Sediment	QC	QC			A19I102	

Data Entered By: JD 9/10/19

Comments:

Data Reviewed By: MKT 9/10/19

Calibration Status Report SV-GCMS14

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics
 Last Update : Mon Sep 09 14:58:53 2019
 Response Via : Initial Calibration

A 9 ± 1001
PH 9/9/19

#	ID	Conc	ISTD Conc	Path\File
1	1.0	1	100	N:\data\2019-09\9I06028\N09061913.D
2	2.5	3	100	N:\data\2019-09\9I06028\N09061914.D
3	5.0	5	100	N:\data\2019-09\9I06028\N09061915.D
4	10.0	10	100	N:\data\2019-09\9I06028\N09061916.D
5	25.0	25	100	N:\data\2019-09\9I06028\N09061917.D
6	50.0	50	100	N:\data\2019-09\9I06028\N09061918.D
7	100	100	100	N:\data\2019-09\9I06028\N09061919.D
8	200	200	100	N:\data\2019-09\9I06028\N09061920.D
9	300	300	100	N:\data\2019-09\9I06028\N09061921.D
10	400	400	100	N:\data\2019-09\9I06028\N09061922.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1.0	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 04:51 pm
2	2.5	Sep 09 14:58 2019	Sep 09 14:46 2019	06 Sep 2019 05:23 pm
3	5.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 05:55 pm
4	10.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 06:27 pm
5	25.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:00 pm
6	50.0	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 07:32 pm
7	100	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:04 pm
8	200	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 08:37 pm
9	300	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:09 pm
10	400	Sep 09 14:58 2019	Sep 09 14:47 2019	06 Sep 2019 09:41 pm

SV14_090619_PAH.M Mon Sep 09 15:05:37 2019

Compound List Report SV-GCMS14

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics
 Last Update : Mon Sep 09 14:58:53 2019
 Response Via : Initial Calibration

JM 9/9/19

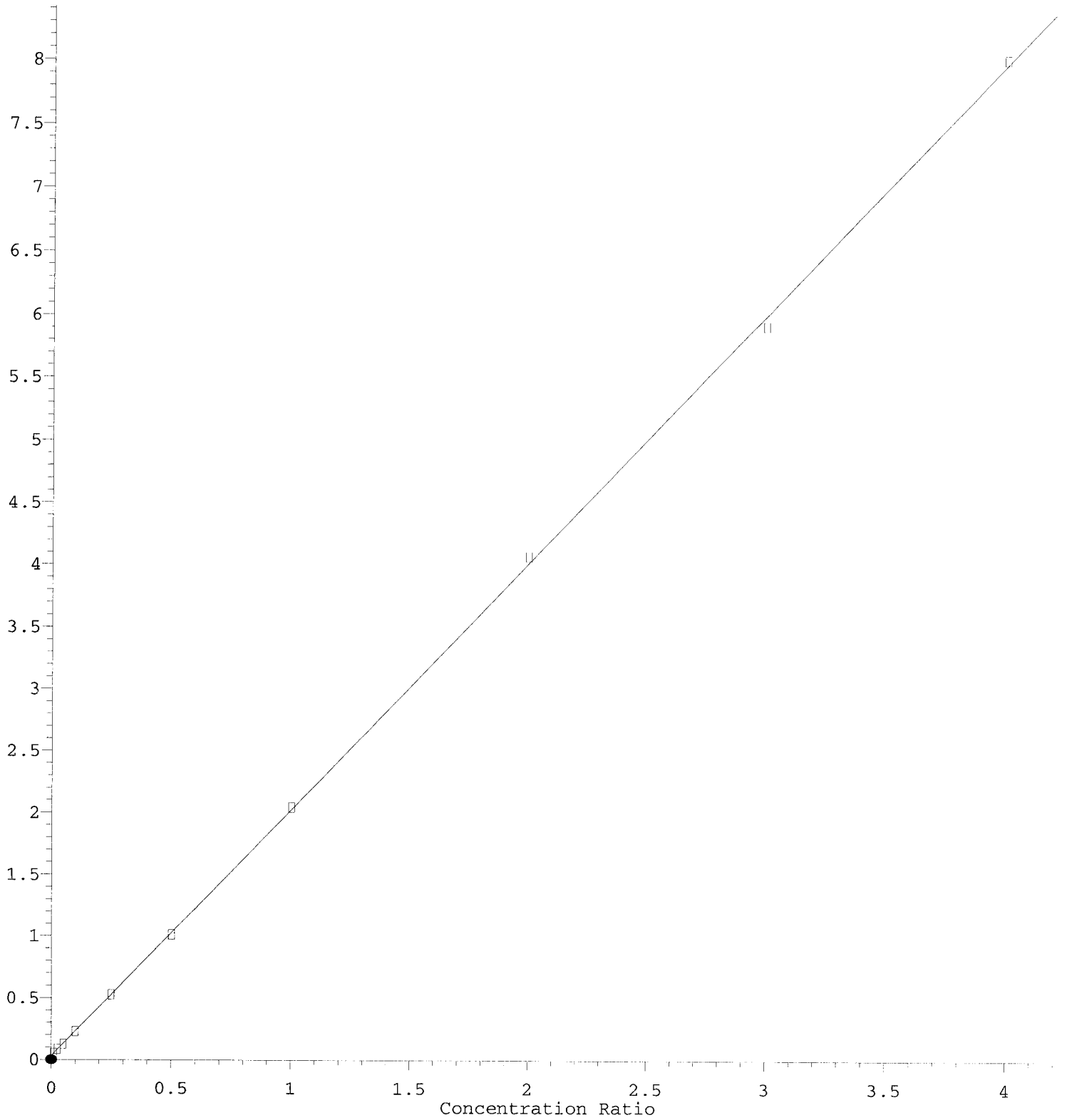
Total Cpnds : 40

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8 (ISTD)	136	7.883	1.000	A	2	A	B
2	S	Nitrobenzene-d5 (Surr)	82	7.184	0.911	A	1	A	R
3	T	Decalin	138	7.364	0.934	A	2	A	B
4	T	Naphthalene	128	7.907	1.003	A	2	A	R
5	T	2-Methylnaphthalene	142	8.589	1.089	A	2	A	R
6	T	1-Methylnaphthalene	142	8.688	1.102	A	2	A	R
7	T	1,1'-Biphenyl	154	9.055	1.149	A	2	A	B
8	T	2,6-Dimethylnaphthalene	156	9.212	1.169	A	2	A	R
9	I	Acenaphthene-d10 (ISTD)	162	9.638	1.000	A	2	A	R
10	S	2-Fluorobiphenyl (Surr)	172	8.950	0.929	A	2	A	R
11	S	Acenaphthylene d-8 (Surr)	160	9.480	0.984	Q	2	A	R
12	T	Acenaphthylene	152	9.498	0.985	A	2	A	R
13	T	Acenaphthene	153	9.673	1.004	A	2	A	R
14	T	Dibenzofuran	168	9.848	1.022	A	2	A	R
15	T	1,6,7-Trimethylnaphthalene	170	10.057	1.044	A	2	A	R
16	T	Fluorene	166	10.191	1.057	A	2	A	R
17	I	Phenanthrene-d10 (ISTD)	188	11.147	1.000	A	2	A	R
18	T	Dibenzothiopene	184	11.042	0.991	A	3	A	R
19	T	Phenanthrene	178	11.171	1.002	A	2	A	R
20	T	Anthracene	178	11.223	1.007	A	2	A	R
21	T	Carbazole	167	11.390	1.022	A	2	A	R
22	T	1-Methylphenanthrene	192	11.794	1.058	A	2	A	R
23	T	Fluoranthene	202	12.435	1.116	A	2	A	R
24	I	Chrysene-d12 (ISTD)	240	14.906	1.000	A	2	A	R
25	T	Pyrene	202	12.721	0.853	A	2	A	R
26	S	Terphenyl-d14 (Surr)	244	12.930	0.867	A	2	A	R
27	T	Benz(a)anthracene	228	14.883	0.998	A	2	A	R
28	T	Chrysene	228	14.965	1.004	A	2	A	R
29	I	Perylene-d12 (ISTD)	264	18.374	1.000	A	2	A	R
30	T	Benzo(b)fluoranthene	252	17.465	0.951	A	2	A	R
31	T	Benzo(k)fluoranthene	252	17.529	0.954	A	2	A	R
32	T	Benzo(b+k)fluoranthene	252	17.529	0.954	A	2	A	R
33	S	Benzo(a)pyrene d-12 (Surr)	264	18.176	0.989	A	2	A	B
34	T	Benzo(e)pyrene	252	18.118	0.986	A	2	A	R
35	T	Benzo(a)pyrene	252	18.234	0.992	A	2	A	R
36	T	Perylene	252	18.433	1.003	A	2	A	R
37	I	Dibenz(a,h)Anthracene-d14 (ISTD)	292	20.764	1.000	A	2	A	R
38	T	Indeno(1,2,3-cd)Pyrene	276	20.758	1.000	A	2	A	R
39	T	Dibenz(a,h)anthracene	278	20.828	1.003	A	2	A	R
40	T	Benzo(g,h,i)perylene	276	21.294	1.026	A	2	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
 #Qual = number of qualifiers
 A/H = Area or Height
 ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

Acenaphthylene d-8 (Surr)

Response Ratio



$R = -2.27e-003 A^2 + 2.00e+000 A + 2.92e-002$

Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a²)

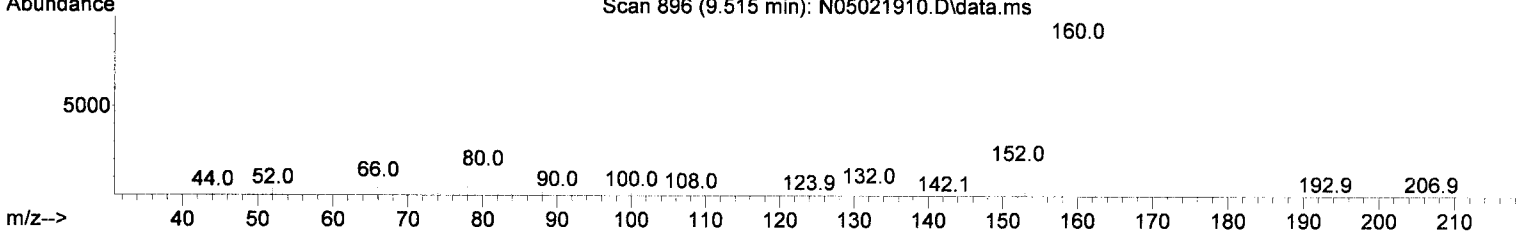
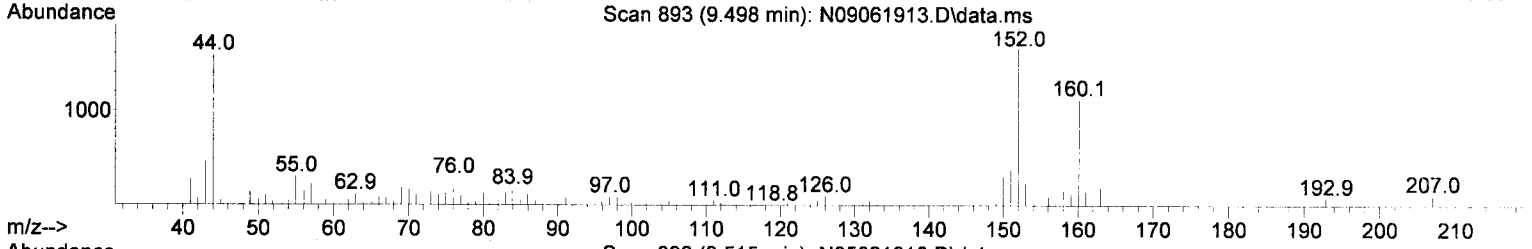
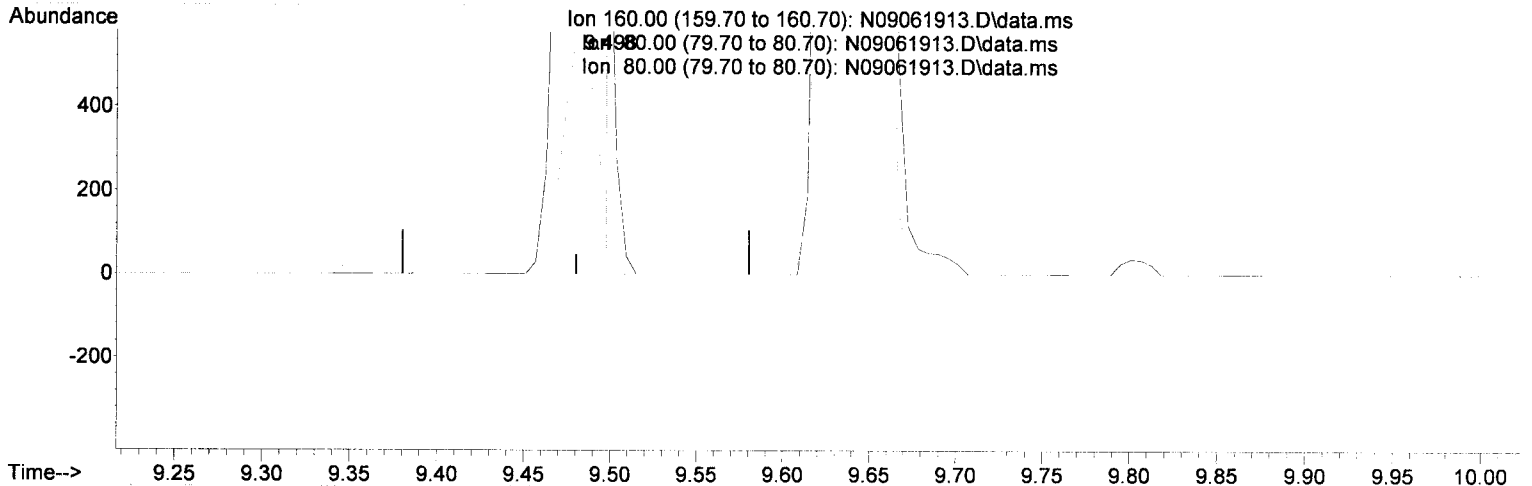
Method Name: N:\methods\SV14_09619_PAN.m 04/07/20 Anchor QEA LLC Gas Prep DG 2019 - 4a-b. DOC-CAP Testing Cores Page 675 of 731

Calibration Table Last Updated: Mon Sep 09 15:00:15 2019

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\REQUANT\
 Data File : N09061913.D
 Acq On : 06 Sep 2019 04:51 pm
 Operator :
 Sample : 9I06028-CAL1
 Misc : 1x, A19I015@1
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 15:06:04 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N09061913.D\data.ms

(11) Acenaphthylene d-8 (Surr) (S)

9.498min (+ 0.017) -1.00 ng/ml m

response	111	
Ion	Exp%	Act%
160.00	100.00	100.00
80.00	14.40	12.44
80.00	14.40	12.44
0.00	0.00	0.00

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics
 Last Update : Mon Sep 09 14:58:53 2019
 Response Via : Initial Calibration

JK 9/9/19

Calibration Files

1.0 =N09061913.D 2.5 =N09061914.D 5.0 =N09061915.D 10.0=N09061916.D 25.0=N09061917.D 50.0=N09061918.D 100 =N09061919.D
 200 =N09061920.D 300 =N09061921.D 400 =N09061922.D

Compound	1.0	2.5	5.0	10.0	25.0	50.0	100	200	300	400	Avg	%RSD
1) I Naphthalene-d8 (ISTD)	-----ISTD-----											
2) S Nitrobenzene-d...	0.391	0.340	0.316	0.315	0.306	0.324	0.323	0.334	0.338	0.337	0.332	7.09 <i>Not used</i>
3) T Decalin		0.076	0.070	0.069	0.070	0.075	0.077	0.077	0.075	0.081	0.074	5.47 <i>Not used</i>
4) T Naphthalene	1.158	1.135	1.098	1.123	1.090	1.083	1.082	1.092	1.078	1.090	1.103	2.42 ✓
5) T 2-Methylnaphth...	0.893	0.907	0.881	0.886	0.895	0.941	0.965	1.001	1.001	0.975	0.935	5.16 ✓
6) T 1-Methylnaphth...	0.821	0.875	0.837	0.916	0.923	0.964	0.986	1.025	1.016	0.981	0.934	7.70 ✓
7) T 1,1'-Biphenyl	1.222	1.201	1.123	1.186	1.195	1.259	1.326	1.389	1.390	1.279	1.257	7.10 <i>Not used</i>
8) T 2,6-Dimethylna...	0.823	0.850	0.815	0.851	0.892	0.943	0.994	1.034	1.033	0.946	0.918	9.12 <i>Not used</i>
9) I Acenaphthene-d10 (...)	-----ISTD-----											
10) S 2-Fluorobiphen...	1.424	1.562	1.481	1.499	1.500	1.482	1.499	1.496	1.477	1.498	1.492	2.26 ✓
11) S Acenaphthylene...	4.877	3.301	2.497	2.282	2.108	2.021	2.043	2.031	1.970	2.004	2.513	36.74 <i>Not used (Surrogate)</i>
12) T Acenaphthylene	2.050	2.174	2.139	2.171	2.195	2.172	2.248	2.243	2.161	2.158	2.171	2.55 ✓
13) T Acenaphthene	1.439	1.487	1.404	1.417	1.419	1.394	1.443	1.431	1.388	1.396	1.422	2.10 ✓
14) T Dibenzofuran	1.760	1.773	1.736	1.780	1.790	1.777	1.831	1.827	1.771	1.765	1.781	1.63 ✓
15) T 1,6,7-Trimethy...	1.249	1.207	1.173	1.178	1.169	1.168	1.213	1.212	1.178	1.178	1.193	2.23 <i>Not used</i>
16) T Fluorene	1.369	1.405	1.409	1.422	1.461	1.447	1.526	1.545	1.493	1.476	1.455	3.85 ✓
17) I Phenanthrene-d10 (...)	-----ISTD-----											
18) T Dibenzothiopene	1.030	1.080	1.056	1.038	1.030	1.033	1.050	1.056	1.042	1.043	1.046	1.46 <i>Not used</i>
19) T Phenanthrene	1.287	1.194	1.137	1.165	1.154	1.152	1.158	1.178	1.134	1.143	1.170	3.85 ✓
20) T Anthracene	1.097	1.089	1.049	1.062	1.069	1.076	1.110	1.115	1.102	1.115	1.088	2.16 ✓
21) T Carbazole	0.872	0.830	0.810	0.818	0.866	0.871	0.905	0.945	0.940	0.950	0.881	5.99 ✓
22) T 1-Methylphenan...	0.803	0.804	0.781	0.794	0.802	0.805	0.824	0.842	0.826	0.847	0.813	2.60 <i>Not used</i>
23) T Fluoranthene	1.194	1.127	1.104	1.124	1.162	1.171	1.202	1.227	1.218	1.261	1.179	4.30 ✓
24) I Chrysene-d12 (ISTD)	-----ISTD-----											
25) T Pyrene	1.634	1.742	1.585	1.636	1.580	1.571	1.560	1.478	1.416	1.421	1.562	6.48 ✓
26) S Terphenyl-d14 ...	1.150	1.092	1.037	1.058	1.060	1.046	1.049	1.021	0.993	1.012	1.052	4.22 ✓
27) T Benz(a)anthracene	1.394	1.221	1.088	1.093	1.114	1.098	1.142	1.149	1.139	1.173	1.161	7.87 ✓
28) T Chrysene	1.134	1.107	1.087	1.087	1.098	1.082	1.095	1.103	1.080	1.114	1.099	1.52 ✓
29) I Perylene-d12 (ISTD)	-----ISTD-----											
30) T Benzo(b)fluora...	1.117	1.085	1.065	1.092	1.128	1.164	1.194	1.231	1.217	1.246	1.154	5.68 ✓
31) T Benzo(k)fluora...	1.067	1.082	1.086	1.036	1.128	1.118	1.196	1.221	1.198	1.228	1.136	6.13 ✓
32) T Benzo(b+k)fluo...	2.224	2.236	2.233	2.230	2.344	2.357	2.457	2.518	2.473	2.532	2.361	5.36 ✓
33) S Benzo(a)pyrene...	0.639	0.751	0.745	0.759	0.782	0.808	0.845	0.885	0.880	0.902	0.800	10.15 <i>Not used (Surrogate)</i>
34) T Benzo(e)pyrene	1.244	1.173	1.075	1.091	1.139	1.151	1.184	1.213	1.188	1.210	1.167	4.61 <i>Not used</i>
35) T Benzo(a)pyrene	0.983	0.860	0.859	0.902	0.977	1.004	1.043	1.085	1.068	1.095	0.988	9.00 ✓
36) T Perylene	1.038	1.226	1.199	1.189	1.232	1.218	1.248	1.282	1.254	1.278	1.216	5.74 <i>Not used</i>

Method Path : N:\methods\
 Method File : SV14_090619_PAH.M
 Title : EPA 8270D: Semivolatile Organics

37)	I	Dibenz(a,h)Anthrce...												
38)	T	Indeno(1,2,3-c...	1.208	1.280	1.185	1.191	1.192	1.223	1.260	1.262	1.249	1.283	1.233	3.08'
39)	T	Dibenz(a,h)ant...	1.173	1.144	1.121	1.116	1.120	1.144	1.178	1.194	1.182	1.217	1.159	3.01'
40)	T	Benzo(g,h,i)pe...	1.245	1.185	1.241	1.251	1.289	1.328	1.388	1.395	1.368	1.394	1.308	5.85'

Handwritten: 21.60 21.60 9/10/19

(#) = Out of Range

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analysis Included

8270D LL PAH Only (Scan)

INSTRUMENT SEQUENCE LOG

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>STDID</u>	<u>ISTD_ID</u>	<u>Analyzed</u>
9I06028-TUN1	MS Tune	Sediment	A19H414	A19I102	9/6/2019 3:51:00PM
9I06028-ICB1	Initial Cal Blank	Sediment		A19I102	9/6/2019 4:18:00PM
9I06028-CAL1	Cal Standard	Sediment	A19I015	"	9/6/2019 4:51:00PM
9I06028-CAL2	Cal Standard	Sediment	A19I016	"	9/6/2019 5:23:00PM
9I06028-CAL3	Cal Standard	Sediment	A19I017	"	9/6/2019 5:55:00PM
9I06028-CAL4	Cal Standard	Sediment	A19I018	"	9/6/2019 6:27:00PM
9I06028-CAL5	Cal Standard	Sediment	A19I019	"	9/6/2019 7:00:00PM
9I06028-CAL6	Cal Standard	Sediment	A19I020	"	9/6/2019 7:32:00PM
9I06028-CAL7	Cal Standard	Sediment	A19I021	"	9/6/2019 8:04:00PM
9I06028-CAL8	Cal Standard	Sediment	A19I022	"	9/6/2019 8:37:00PM
9I06028-CAL9	Cal Standard	Sediment	A19I023	"	9/6/2019 9:09:00PM
9I06028-CALA	Cal Standard	Sediment	A19I024	"	9/6/2019 9:41:00PM
9I06028-ICV1	Initial Cal Check	Sediment	A19I025	"	9/6/2019 10:45:00PM

CALIBRATION STANDARD RECOVERIES

Calibration: **A9I1001**

Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan)

Sequence: **9I06028**

Matrix: **Sediment**

	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9I06028-CAL1					
9I06028-CAL2					
9I06028-CAL3					
9I06028-CAL4					
9I06028-CAL5					
9I06028-CAL6					
9I06028-CAL7					
9I06028-CAL8					
9I06028-CAL9					
9I06028-CALA					

Compounds listed above have recalculated recoveries outside 70-130% of the true values, and the calibration levels are above the reporting level. If no compounds are listed, all are OK. Please see the next section for quadratic fit compounds.

CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9I06028

Analytes With Quadratic Curve Fits

<u>Qualifier</u>	<u>iMDL</u>	<u>iMRL</u>	<u>Spike Amt</u>	<u>%Difference</u>	<u>OK?</u>	<u>Raise MRL to ?</u>
				_____	□	□ _____

Analytes listed above have quadratic curve fits. If they are using a weighting option, they must be checked against the requested curve points to determine if the recalculated results are within limits (70-130 or as specified).

ICV RECOVERIES

Calibration: **A9I1001**

Instrument: **SV-GCMS14**

8270D LL PAH Only (Scan)

Sequence: **9I06028**

Matrix: **Sediment**

9I06028-ICV1

Inst. MRL

ICV Level

Result

%Rec.

Qual

Compounds listed above have Initial Calibration Verification standard recoveries outside 70-130% of the true values. If no compounds are listed, all have passing recoveries.

Evaluate Continuing Calibration Report

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

JK 9/10/19

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Naphthalene-d8 (ISTD)	100.000	100.000	0.0	123	0.00
2 S	Nitrobenzene-d5 (Surr)	50.000	46.212	7.6	116	0.00
3 T	Decalin	50.000	48.753	2.5	118	0.00
4 T	Naphthalene	50.000	49.942	0.1	125	0.00
5 T	2-Methylnaphthalene	50.000	46.827	6.3	114	0.00
6 T	1-Methylnaphthalene	50.000	47.766	4.5	113	0.00
7 T	1,1'-Biphenyl	50.000	46.341	7.3	113	0.00
8 T	2,6-Dimethylnaphthalene	50.000	45.797	8.4	109	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	106	0.00
10 S	2-Fluorobiphenyl (Surr)	50.000	49.669	0.7	106	0.00
11 S	Acenaphthylene d-8 (Surr)	50.000	49.308	1.4	106	0.00
12 T	Acenaphthylene	50.000	51.950	-3.9	110	0.00
13 T	Acenaphthene	50.000	50.335	-0.7	109	0.00
14 T	Dibenzofuran	50.000	50.914	-1.8	108	0.00
15 T	1,6,7-Trimethylnaphthalene	50.000	50.151	-0.3	109	0.00
16 T	Fluorene	50.000	50.867	-1.7	109	0.00
17 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	107	0.00
18 T	Dibenzothiopene	50.000	49.794	0.4	108	0.00
19 T	Phenanthrene	50.000	50.398	-0.8	110	0.00
20 T	Anthracene	50.000	51.792	-3.6	112	0.00
21 T	Carbazole	50.000	50.683	-1.4	110	-0.02
22 T	1-Methylphenanthrene	50.000	51.441	-2.9	111	0.00
23 T	Fluoranthene	50.000	50.556	-1.1	109	0.00
24 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	111	0.00
25 T	Pyrene	50.000	49.139	1.7	109	0.00
26 S	Terphenyl-d14 (Surr)	50.000	48.699	2.6	109	0.00
27 T	Benzo(a)anthracene	50.000	48.477	3.0	114	0.00
28 T	Chrysene	50.000	52.375	-4.8	118	0.00
29 I	Perylene-d12 (ISTD)	100.000	100.000	0.0	114	0.00
30 T	Benzo(b)fluoranthene	50.000	50.587	-1.2	115	0.00
31 T	Benzo(k)fluoranthene	50.000	49.972	0.1	116	0.00
32 T	Benzo(b+k)fluoranthene	100.000	100.734	-0.7	115	0.00
33 S	Benzo(a)pyrene d-12 (Surr)	50.000	53.210	-6.4	120	0.00
34 T	Benzo(e)pyrene	50.000	50.277	-0.6	117	0.00
35 T	Benzo(a)pyrene	50.000	51.177	-2.4	115	0.00
36 T	Perylene	50.000	50.891	-1.8	116	0.00
37 I	Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	117	0.00
38 T	Indeno(1,2,3-cd)Pyrene	50.000	49.977	0.0	118	0.00
39 T	Dibenz(a,h)anthracene	50.000	49.339	1.3	117	0.00
40 T	Benzo(g,h,i)perylene	50.000	53.580	-7.2	123	0.00

(#) = Out of Range

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

Qtd 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.613	150	163761	2.00	ug/mL	# 0.00
2) Naphthalene-d8	7.825	136	486548	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.585	162	255378	2.00	ug/mL	0.00
5) Phenanthrene-d10	11.101	188	470705	2.00	ug/mL	0.00
11) Chrysene-d12	14.779	240	413133	2.00	ug/mL	# 0.00
12) Perylene-d12	16.830	264	372325	2.00	ug/mL	# 0.00
13) Dibenz(a,h)anthracene-...	18.060	292	295670	2.00	ug/mL	0.00
Target Compounds						
4) Pentachlorophenol	10.920	266	1134816	47.06	ug/mL	Qvalue 93
6) DFTPP	11.404	442	1326743	34.91	ug/mL	90
7) Benzidine	12.558	184	4304187	25.70	ug/mL	97
8) 4,4-DDE	12.808	TIC	375170	No Calib		
9) 4,4-DDD	13.310	TIC	188617	No Calib		
10) 4,4-DDT	13.869	TIC	15944082	33.03	ug/mL	98

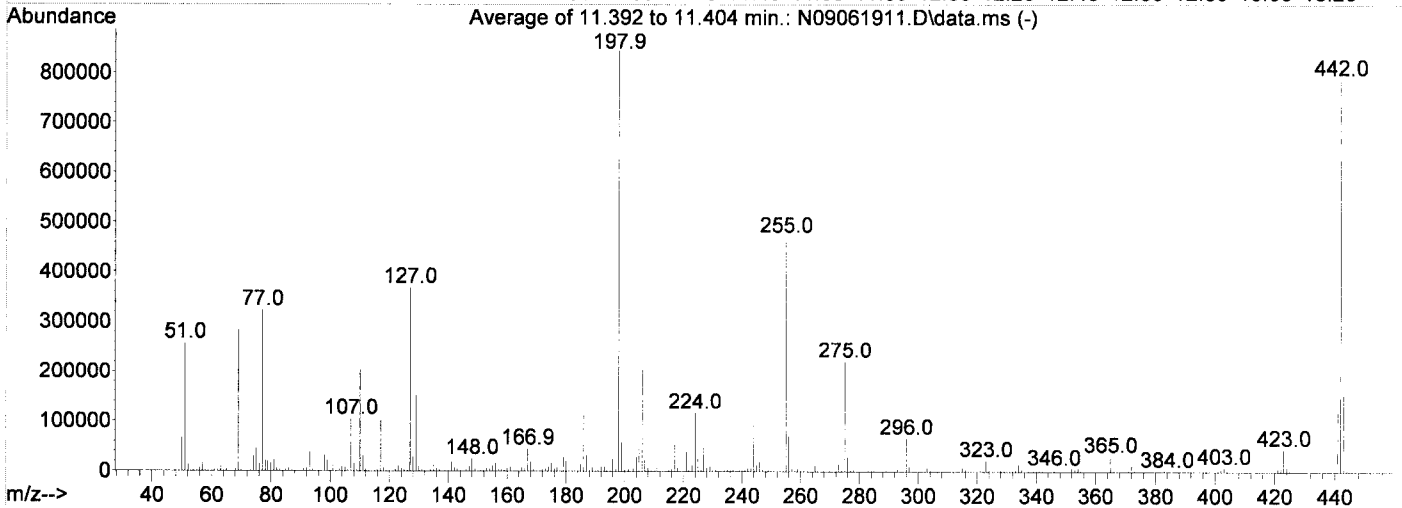
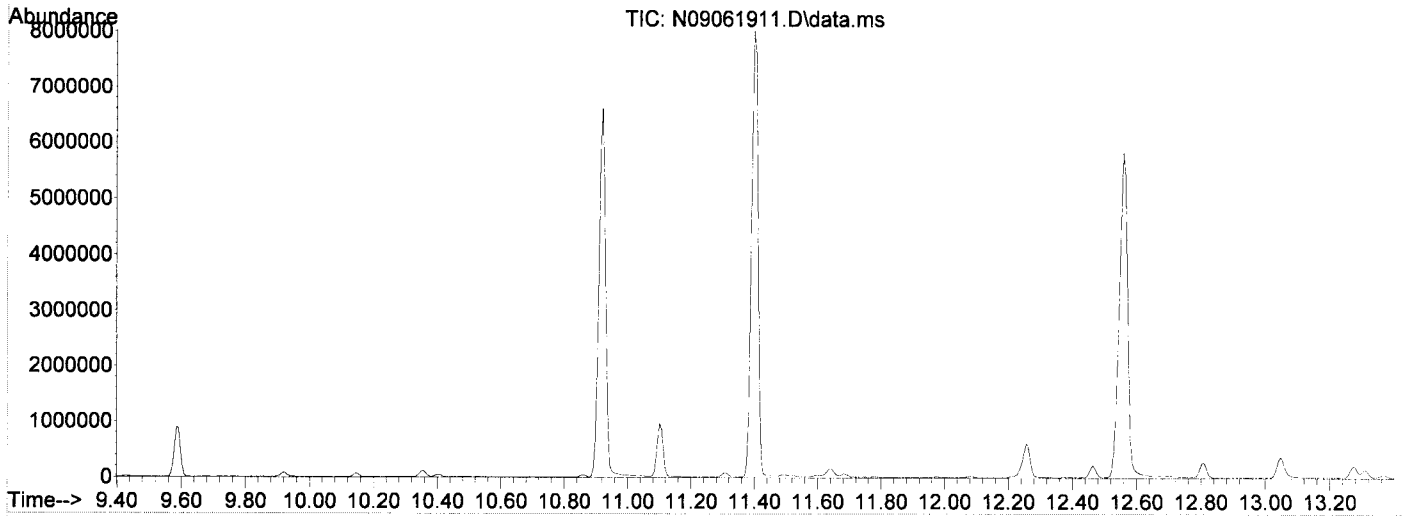
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : N:\methods\DFTPP.M
 Title : 8270 DFTPP Tune Method
 Last Update : Thu Sep 05 08:50:46 2019

9/9/19



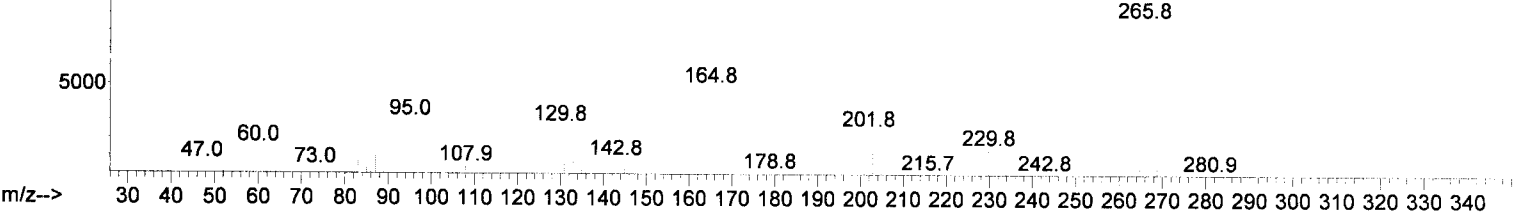
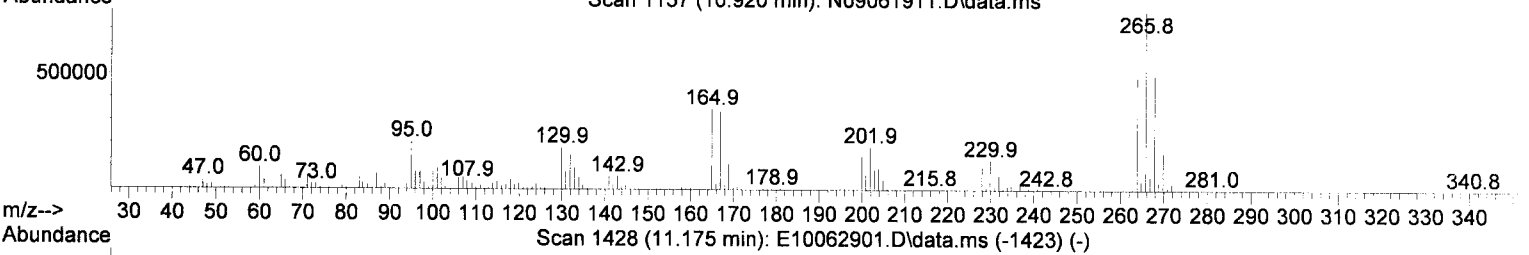
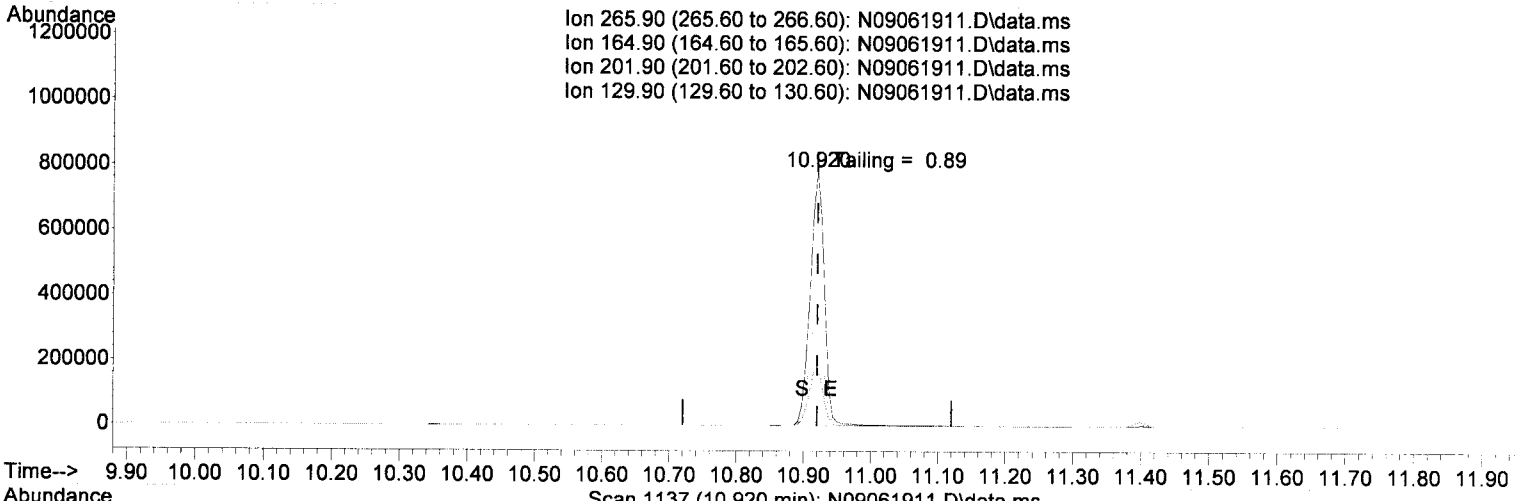
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	4348	PASS
69	69	100	100	100.0	283608	PASS
70	69	0.00	2	0.5	1319	PASS
197	198	0.00	2	0.5	4054	PASS
198	198	100	100	100.0	845182	PASS
199	198	5	9	6.9	57976	PASS
365	198	1	100	3.6	30576	PASS
441	443	0.01	150	78.0	120320	PASS
442	198	0.10	200	93.1	787179	PASS
443	442	15	24	19.6	154213	PASS

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(4) Pentachlorophenol

10.920min (+ 0.000) 47.06 ug/mL

response 1134816

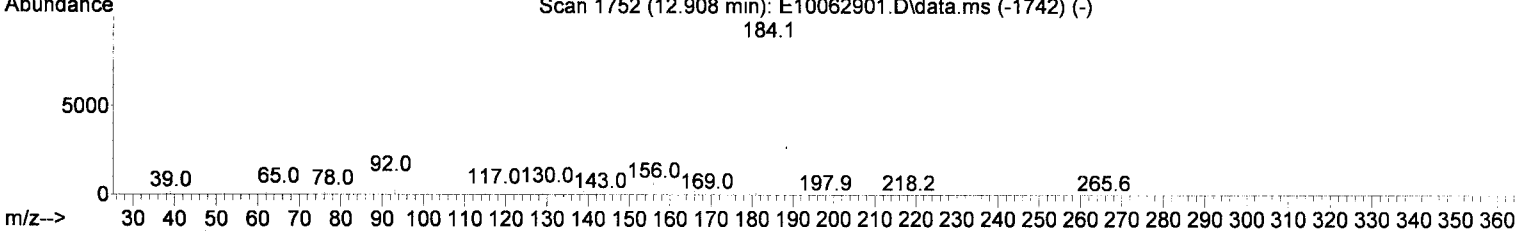
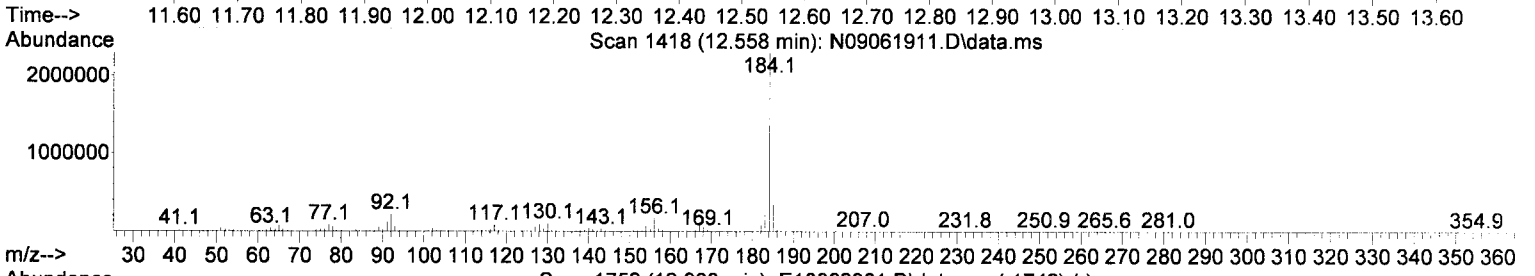
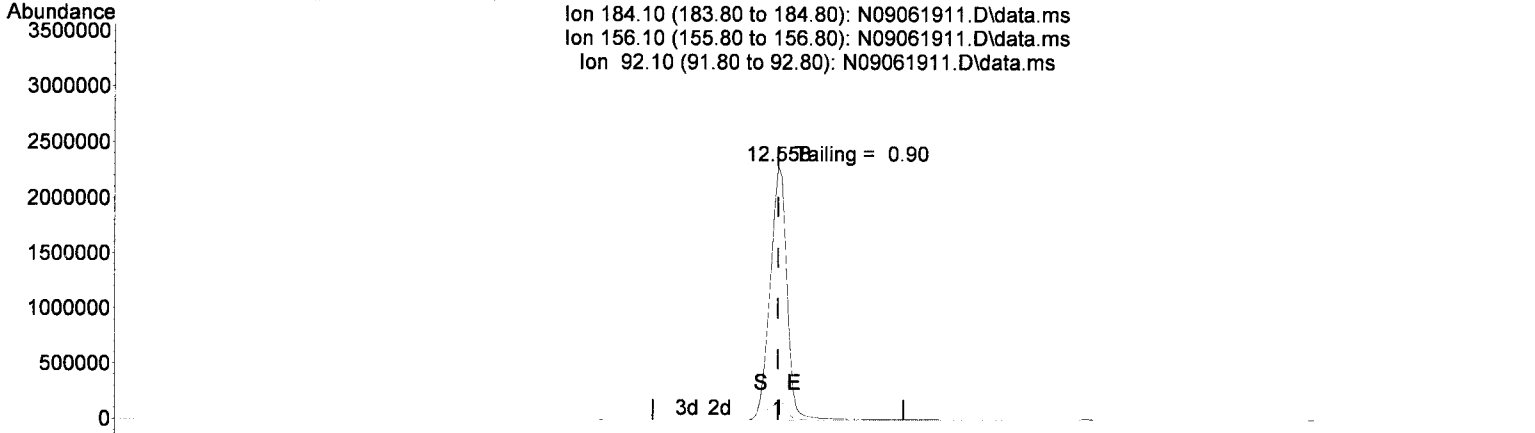
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

Handwritten signature and date: 9/9/19

Quantitation Report (Qedit)

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061911.D
 Acq On : 06 Sep 2019 03:51 pm
 Operator :
 Sample : 9I06028-TUN1
 Misc : 1x, A19H414 DFTPP@45
 ALS Vial : 1 Sample Multiplier: 1
 DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
 Quant Method : N:\methods\DFTPP.M
 Quant Title : 8270 DFTPP Tune Method
 QLast Update : Thu Sep 05 08:50:46 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



TIC: N09061911.D\data.ms

(7) Benzidine

12.558min (+ 0.000) 25.70 ug/mL

response 4304187

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	7.39
92.10	8.20	9.56
0.00	0.00	0.00

Handwritten signature and date: 9/9/19

DDT Breakdown Check (Validated 5/1/2013)

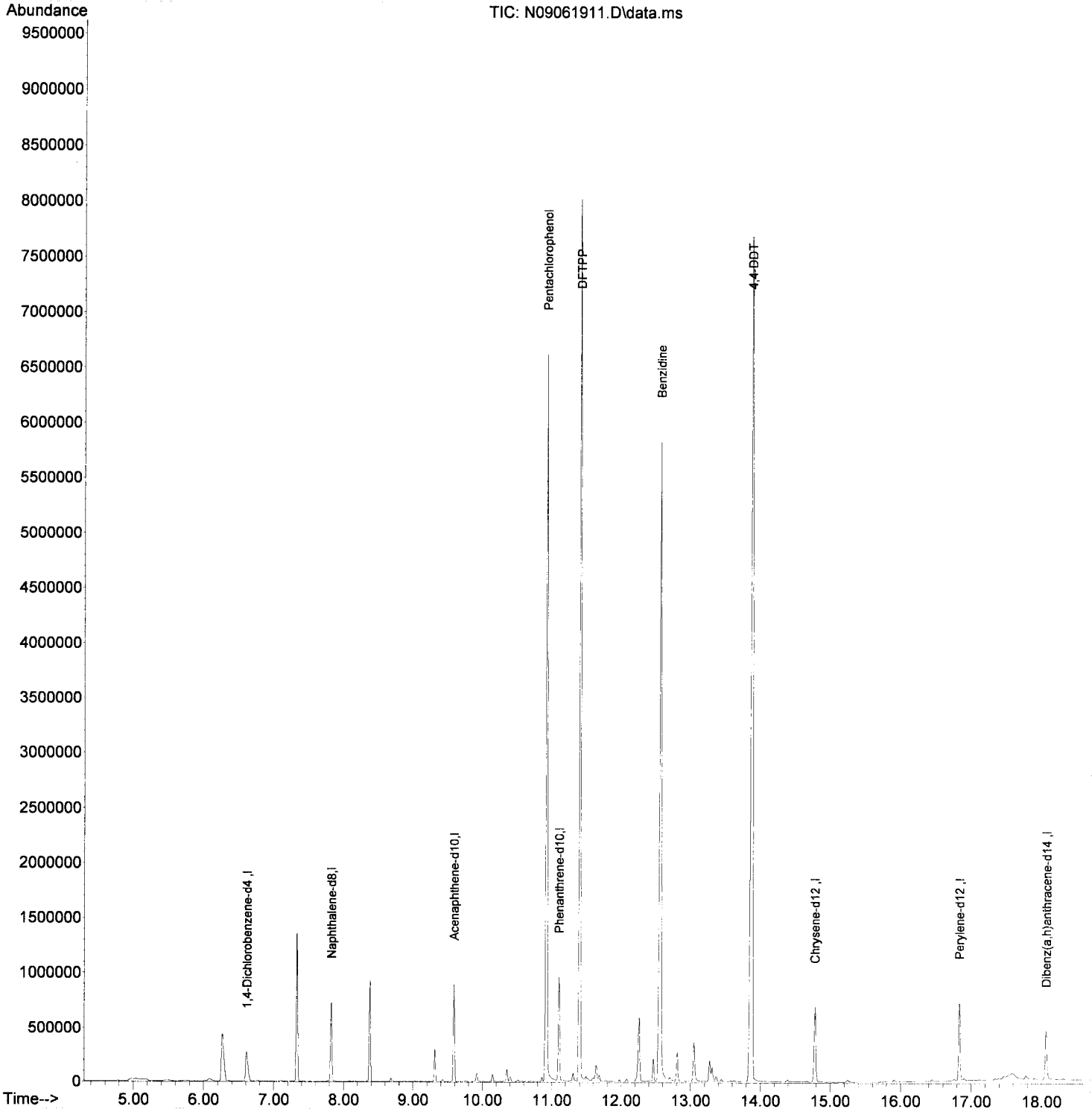
From:
9I06028-TUN1
SV-GCMS14

First Column Area Counts	Percent Breakdown	
DDE 375170		✓
DDD 188617		
DDT 15944082	3.42	PASS

Breakdown must be less than 20% to accept sample data.

Data Path : N:\data\2019-09\9I06028\
Data File : N09061911.D
Acq On : 06 Sep 2019 03:51 pm
Operator :
Sample : 9I06028-TUN1
Misc : 1x, A19H414 DFTPP@45
ALS Vial : 1 Sample Multiplier: 1
DataAcq Meth:DFTPP.M

Quant Time: Sep 06 17:15:52 2019
Quant Method : N:\methods\DFTPP.M
Quant Title : 8270 DFTPP Tune Method
QLast Update : Thu Sep 05 08:50:46 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061912.D
 Acq On : 06 Sep 2019 04:18 pm
 Operator :
 Sample : 9I06028-ICB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

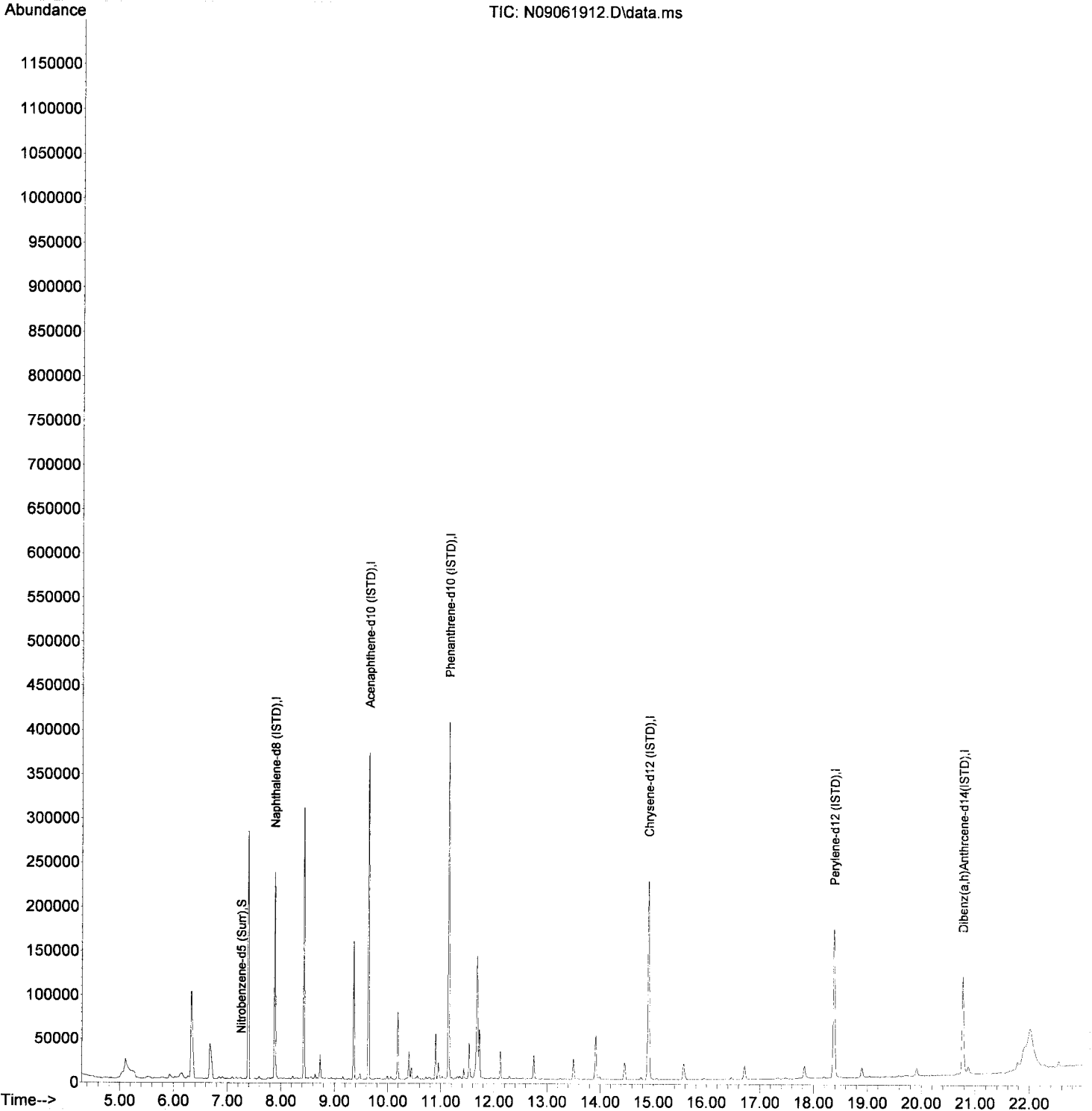
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.765	292	95634	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.907	128	157	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	0.000		0	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.498	152	86	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	11.042	184	87	N.D.			
19) Phenanthrene	11.171	178	288	N.D.			
20) Anthracene	11.223	178	75	N.D.			
21) Carbazole	11.380	167	333	No Calib			
22) 1-Methylphenanthrene	11.800	192	131	N.D.			
23) Fluoranthene	12.435	202	251	N.D.			
25) Pyrene	12.727	202	195	N.D.			
27) Benz(a)anthracene	14.901	228	646	N.D.			
28) Chrysene	14.965	228	290	N.D.			
30) Benzo(b)fluoranthene	17.466	252	208	N.D.			
31) Benzo(k)fluoranthene	17.524	252	168	N.D.			
32) Benzo(e+k)fluoranthene	17.524	252	168	N.D.			
34) Benzo(e)pyrene	18.113	252	178	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.439	252	178	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.			
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.			
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.			

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

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:43 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061912.D
 Acq On : 06 Sep 2019 04:18 pm
 Operator :
 Sample : 9I06028-ICB1
 Misc : 1x, DCM + ISTD
 ALS Vial : 2 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Final Request

Quant Time: Sep 10 10:28:34 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

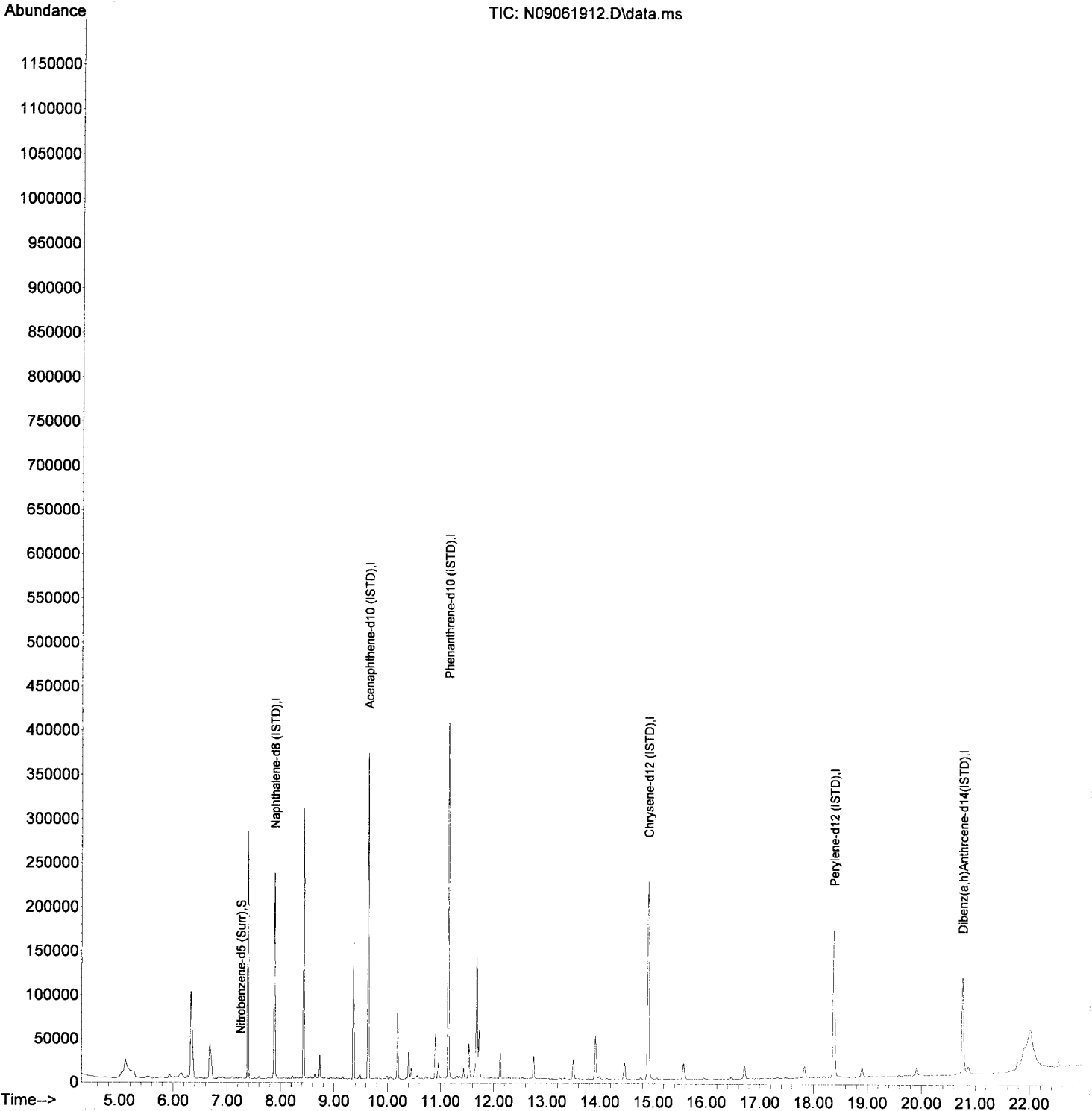
9/10/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	156122	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	131660	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	95634	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.254	82	241	0.47	ng/ml	0.07	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.486	160	3573	0.17	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	228	0.14	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.907	128	157	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	0.000		0	N.D.			
7) 1,1'-Biphenyl	0.000		0	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.498	152	86	N.D.			
13) Acenaphthene	0.000		0	N.D.			
14) Dibenzofuran	0.000		0	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	0.000		0	N.D.			
18) Dibenzothiopene	11.042	184	87	N.D.			
19) Phenanthrene	11.171	178	288	N.D.			
20) Anthracene	11.223	178	75	N.D.			
21) Carbazole	11.380	167	333	N.D.			
22) 1-Methylphenanthrene	11.800	192	131	N.D.			
23) Fluoranthene	12.435	202	251	N.D.			
25) Pyrene	12.727	202	195	N.D.			
27) Benz(a)anthracene	14.901	228	646	N.D.			
28) Chrysene	14.965	228	290	N.D.			
30) Benzo(b)fluoranthene	17.466	252	208	N.D.			
31) Benzo(k)fluoranthene	17.524	252	168	N.D.			
32) Benzo(b+k)fluoranthene	17.524	252	168	N.D.			
34) Benzo(e)pyrene	18.113	252	178	N.D.			
35) Benzo(a)pyrene	0.000		0	N.D.			
36) Perylene	18.439	252	178	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.770	276	158	N.D.			
39) Dibenz(a,h)anthracene	20.834	278	121	N.D.			
40) Benzo(g,h,i)perylene	21.301	276	89	N.D.			

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

Data Path : N:\data\2019-09\9I06028\
Data File : N09061912.D
Acq On : 06 Sep 2019 04:18 pm
Operator :
Sample : 9I06028-ICB1
Misc : 1x, DCM + ISTD
ALS Vial : 2 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:34 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 14:58:53 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061913.D
 Acq On : 06 Sep 2019 04:51 pm
 Operator :
 Sample : 9I06028-CAL1
 Misc : 1x, A19I015@1
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

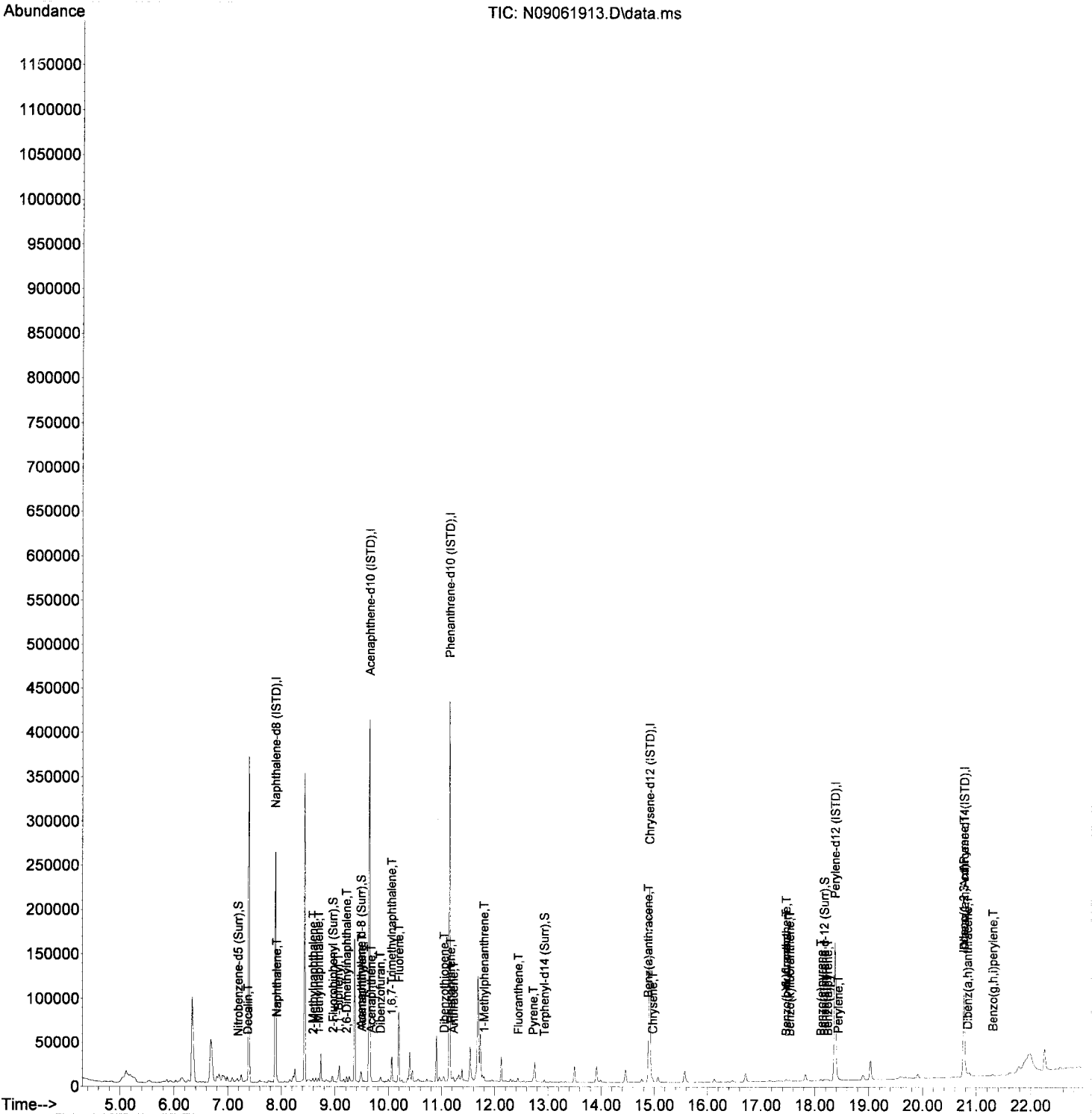
GK 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	173610	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	119749	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	214815	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	149008	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	120943	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.764	292	80323	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.189	82	679	1.18	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.956	172	1705	0.95	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.486	160	5840	0.98	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	1714	1.09	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.176	264	773	0.80	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	87	0.67	ng/ml#		38
4) Naphthalene	7.906	128	2011	1.05	ng/ml		99
5) 2-Methylnaphthalene	8.588	142	1551	0.96	ng/ml		94
6) 1-Methylnaphthalene	8.687	142	1426	0.88	ng/ml		100
7) 1,1'-Biphenyl	9.055	154	2122	0.97	ng/ml		93
8) 2,6-Dimethylnaphthalene	9.212	156	1429	0.90	ng/ml		93
12) Acenaphthylene	9.498	152	2455	0.94	ng/ml		98
13) Acenaphthene	9.672	153	1723	1.01	ng/ml		97
14) Dibenzofuran	9.847	168	2108	0.99	ng/ml		91
15) 1,6,7-Trimethylnaphtha...	10.057	170	1496	1.05	ng/ml		75
16) Fluorene	10.197	166	1639	0.94	ng/ml		98
18) Dibenzothiopene	11.042	184	2213	0.99	ng/ml		95
19) Phenanthrene	11.170	178	2765	1.10	ng/ml		99
20) Anthracene	11.223	178	2357	1.01	ng/ml		97
21) Carbazole	11.380	167	1874	No Calib			
22) 1-Methylphenanthrene	11.794	192	1725	0.99	ng/ml		92
23) Fluoranthene	12.435	202	2565	1.01	ng/ml		98
25) Pyrene	12.721	202	2435	1.05	ng/ml		96
27) Benz(a)anthracene	14.883	228	2077	1.20	ng/ml		98
28) Chrysene	14.965	228	1690	1.03	ng/ml		96
30) Benzo(b)fluoranthene	17.465	252	1351	0.97	ng/ml		95
31) Benzo(k)fluoranthene	17.529	252	1291	0.94	ng/ml		96
32) Benzo(b+k)fluoranthene	17.465	252	2690	0.94	ng/ml		97
34) Benzo(e)pyrene	18.112	252	1505	1.07	ng/ml		94
35) Benzo(a)pyrene	18.235	252	1189	1.00	ng/ml		99
36) Perylene	18.433	252	1255	0.85	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	970	0.98	ng/ml		74
39) Dibenz(a,h)anthracene	20.828	278	942	1.01	ng/ml		86
40) Benzo(g,h,i)perylene	21.295	276	1000	0.95	ng/ml		93

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061913.D
 Acq On : 06 Sep 2019 04:51 pm
 Operator :
 Sample : 9I06028-CAL1
 Misc : 1x, A19I015@1
 ALS Vial : 3 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:51 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061914.D
 Acq On : 06 Sep 2019 05:23 pm
 Operator :
 Sample : 9I06028-CAL2
 Misc : 1x, A19I016@2.5
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

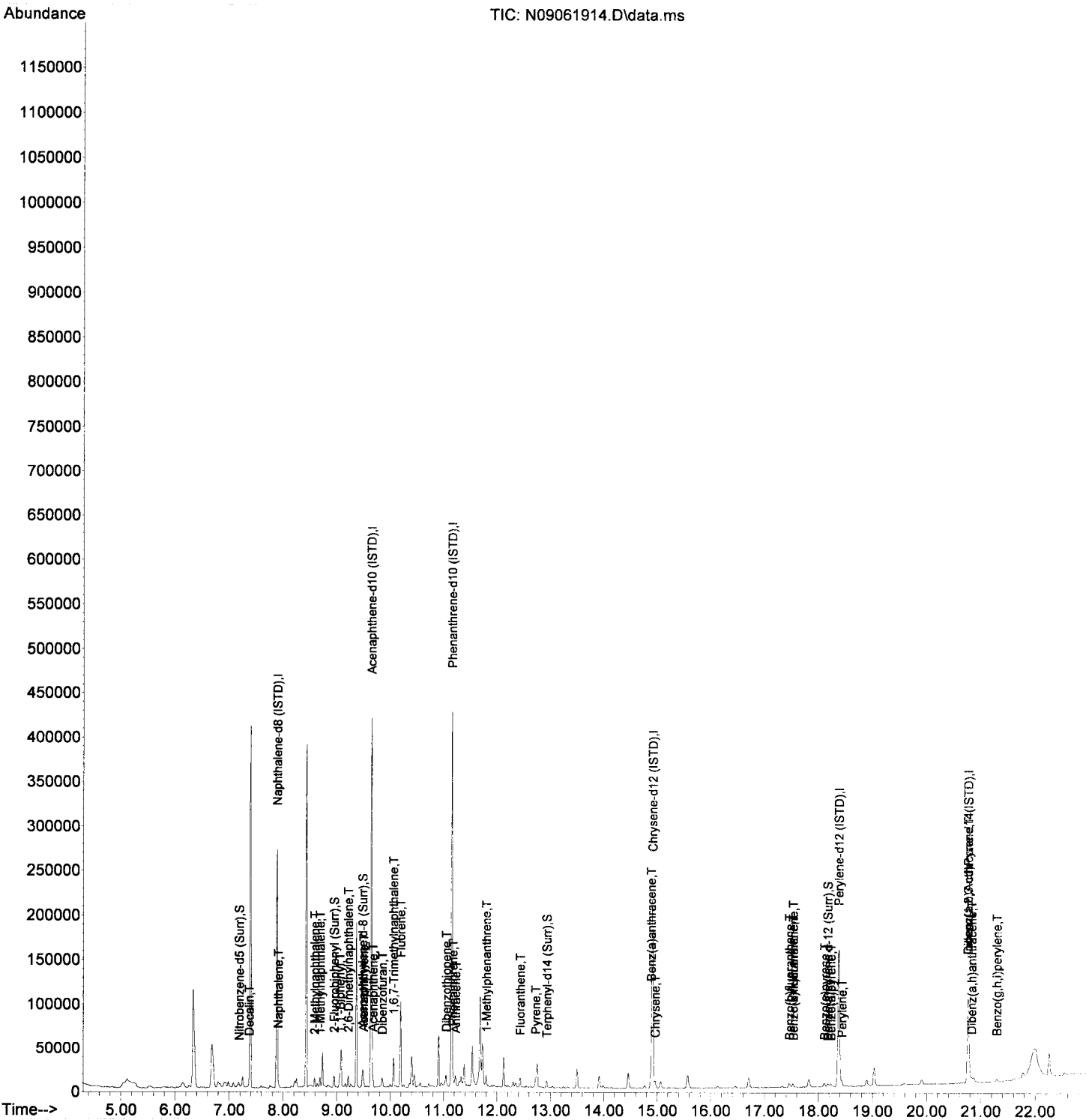
GR 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	170471	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	119278	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	215482	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	151986	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	123595	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	82584	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	1447	2.55	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	4658	2.62	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	9843	2.67	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	4151	2.60	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	2322	2.35	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	323	2.54	ng/ml		87
4) Naphthalene	7.906	128	4837	2.57	ng/ml		98
5) 2-Methylnaphthalene	8.588	142	3865	2.43	ng/ml		96
6) 1-Methylnaphthalene	8.688	142	3730	2.34	ng/ml		97
7) 1,1'-Biphenyl	9.055	154	5118	2.39	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.212	156	3622	2.31	ng/ml		97
12) Acenaphthylene	9.498	152	6483	2.50	ng/ml		98
13) Acenaphthene	9.673	153	4435	2.61	ng/ml		96
14) Dibenzofuran	9.847	168	5286	2.49	ng/ml		95
15) 1,6,7-Trimethylnaphtha...	10.057	170	3598	2.53	ng/ml		87
16) Fluorene	10.191	166	4189	2.41	ng/ml		94
18) Dibenzothiopene	11.042	184	5817	2.58	ng/ml		97
19) Phenanthrene	11.171	178	6430	2.55	ng/ml		99
20) Anthracene	11.223	178	5868	2.50	ng/ml		98
21) Carbazole	11.380	167	4473	No Calib			
22) 1-Methylphenanthrene	11.794	192	4331	2.47	ng/ml		98
23) Fluoranthene	12.429	202	6070	2.39	ng/ml		95
25) Pyrene	12.721	202	6620	2.79	ng/ml		98
27) Benz(a)anthracene	14.883	228	4639	2.63	ng/ml		97
28) Chrysene	14.959	228	4207	2.52	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	3353	2.35	ng/ml		96
31) Benzo(k)fluoranthene	17.530	252	3343	2.38	ng/ml		93
32) Benzo(b+k)fluoranthene	17.530	252	6909	2.37	ng/ml		93
34) Benzo(e)pyrene	18.112	252	3623	2.51	ng/ml		97
35) Benzo(a)pyrene	18.229	252	2658	2.18	ng/ml		100
36) Perylene	18.433	252	3787	2.52	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.759	276	2642	2.59	ng/ml		100
39) Dibenz(a,h)anthracene	20.823	278	2361	2.47	ng/ml		87
40) Benzo(g,h,i)perylene	21.289	276	2446	2.26	ng/ml		97

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061914.D
 Acq On : 06 Sep 2019 05:23 pm
 Operator :
 Sample : 9I06028-CAL2
 Misc : 1x, A19I016@2.5
 ALS Vial : 4 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:46:55 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061915.D
 Acq On : 06 Sep 2019 05:55 pm
 Operator :
 Sample : 9I06028-CAL3
 Misc : 1x, A19I017@5
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

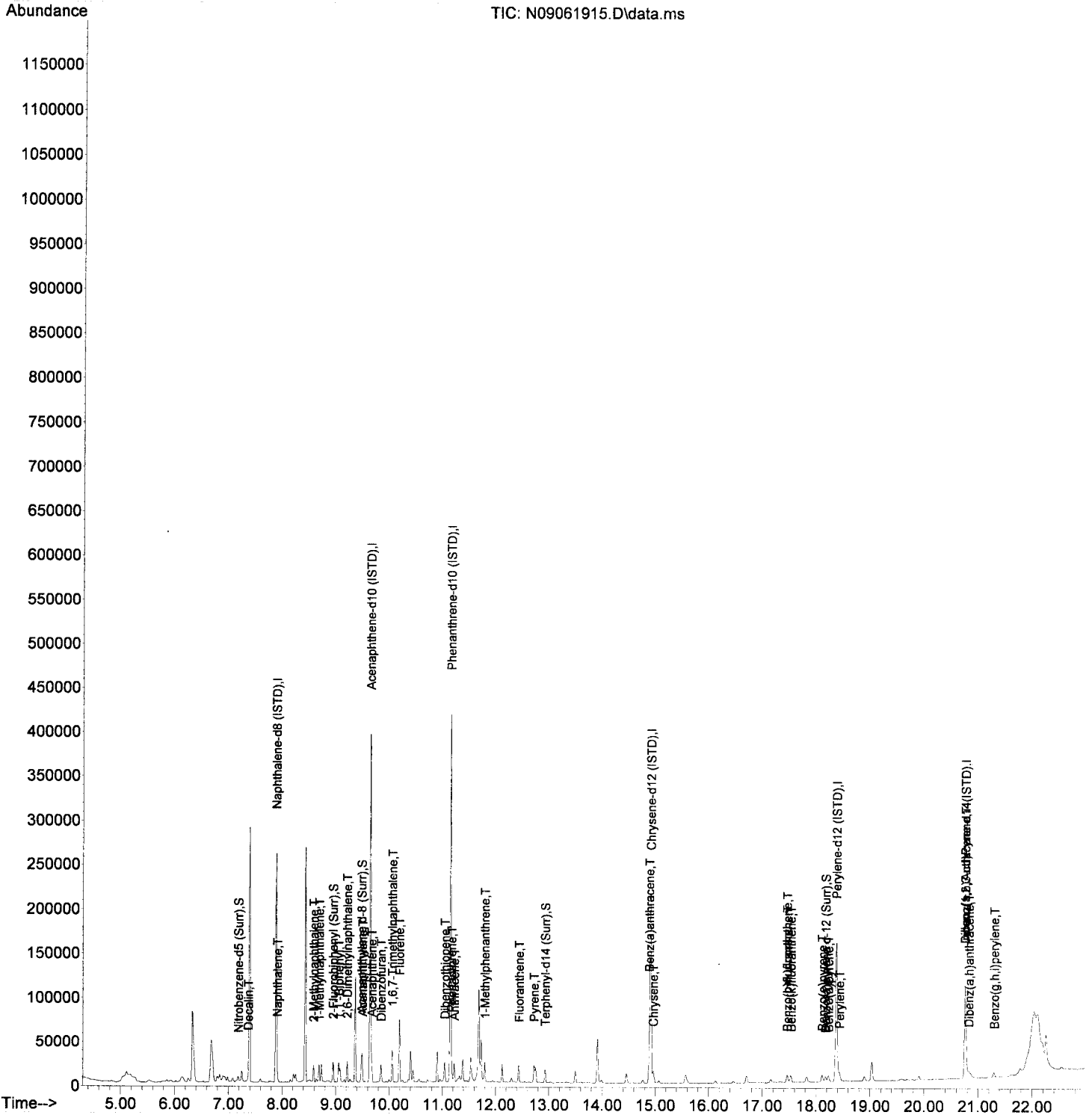
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	165670	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	115422	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	210311	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	150233	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	124460	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	83358	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	2621	4.76	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	8548	4.96	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	14409	4.79	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	7787	4.93	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	4638	4.66	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	582	4.72	ng/ml		91
4) Naphthalene	7.906	128	9092	4.93	ng/ml		99
5) 2-Methylnaphthalene	8.588	142	7294	4.71	ng/ml		97
6) 1-Methylnaphthalene	8.688	142	6937	4.48	ng/ml		96
7) 1,1'-Biphenyl	9.055	154	9300	4.47	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.212	156	6755	4.44	ng/ml		99
12) Acenaphthylene	9.498	152	12342	4.93	ng/ml		99
13) Acenaphthene	9.673	153	8103	4.94	ng/ml		98
14) Dibenzofuran	9.847	168	10021	4.87	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.057	170	6769	4.92	ng/ml		98
16) Fluorene	10.191	166	8130	4.84	ng/ml		99
18) Dibenzothiopene	11.042	184	11105	5.05	ng/ml		97
19) Phenanthrene	11.171	178	11957	4.86	ng/ml		98
20) Anthracene	11.223	178	11026	4.82	ng/ml		99
21) Carbazole	11.380	167	8513	No Calib			
22) 1-Methylphenanthrene	11.794	192	8212	4.80	ng/ml		99
23) Fluoranthene	12.435	202	11610	4.68	ng/ml		98
25) Pyrene	12.721	202	11908	5.07	ng/ml		100
27) Benz(a)anthracene	14.883	228	8173	4.69	ng/ml		96
28) Chrysene	14.959	228	8164	4.95	ng/ml		96
30) Benzo(b)fluoranthene	17.460	252	6625	4.61	ng/ml		95
31) Benzo(k)fluoranthene	17.530	252	6760	4.78	ng/ml		96
32) Benzo(b+k)fluoranthene	17.460	252	13896	4.73	ng/ml		93
34) Benzo(e)pyrene	18.112	252	6692	4.61	ng/ml		98
35) Benzo(a)pyrene	18.229	252	5344	4.35	ng/ml		99
36) Perylene	18.433	252	7462	4.93	ng/ml		97
38) Indeno(1,2,3-cd)Pyrene	20.759	276	4940	4.80	ng/ml		95
39) Dibenz(a,h)anthracene	20.829	278	4673	4.84	ng/ml		98
40) Benzo(g,h,i)perylene	21.295	276	5171	4.74	ng/ml		92

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061915.D
 Acq On : 06 Sep 2019 05:55 pm
 Operator :
 Sample : 9I06028-CAL3
 Misc : 1x, A19I017@5
 ALS Vial : 5 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:00 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061916.D
 Acq On : 06 Sep 2019 06:27 pm
 Operator :
 Sample : 9I06028-CAL4
 Misc : 1x, A19I018@10
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

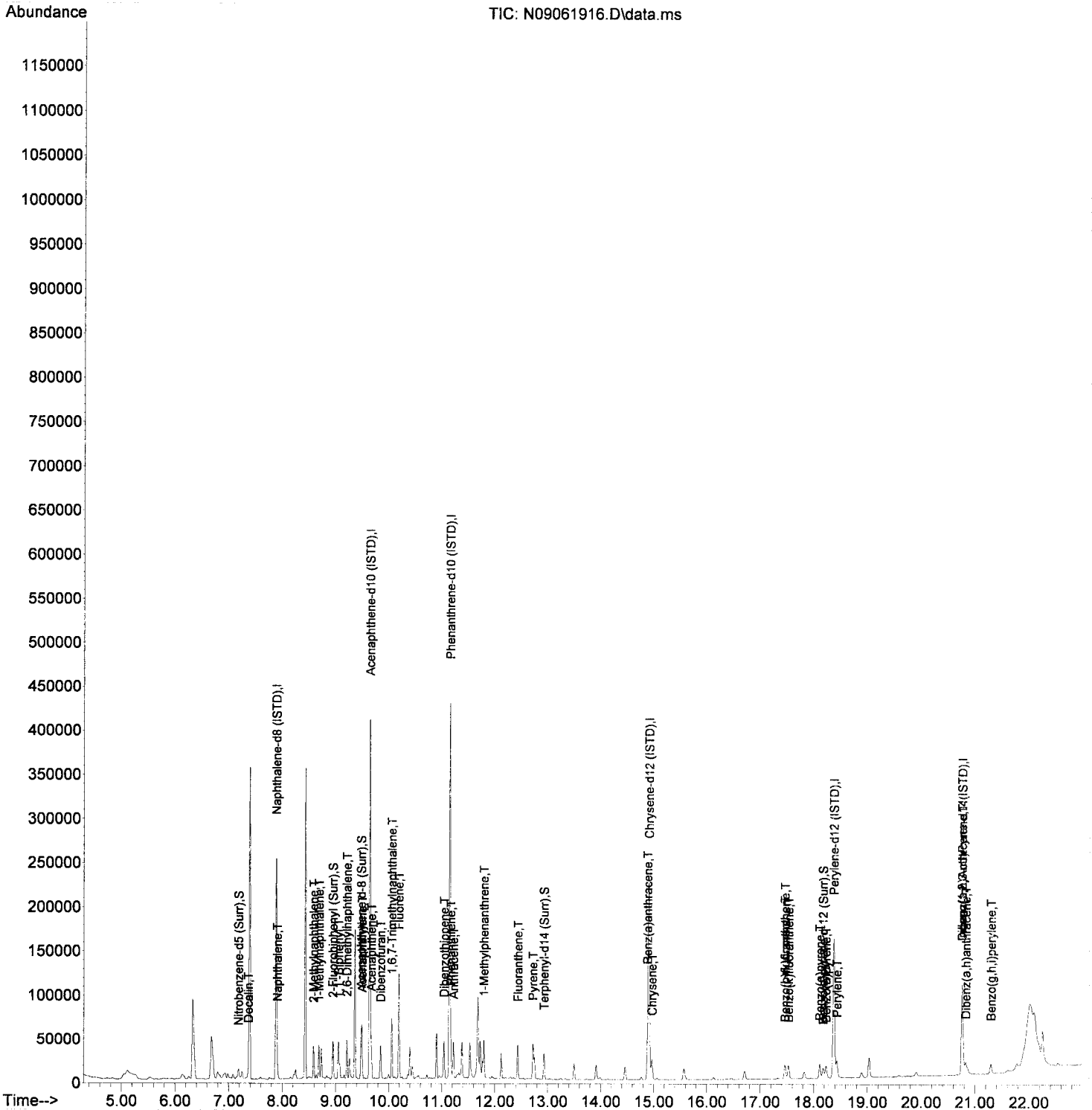
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	153303	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	125859	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	82058	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	5073	9.49	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	17737	10.05	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	27001	9.97	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	16215	10.06	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	9551	9.49	ng/ml	0.00	
Target Compounds							
3) Decalin	7.365	138	1106	9.23	ng/ml	96	Qvalue
4) Naphthalene	7.907	128	18065	10.18	ng/ml	98	
5) 2-Methylnaphthalene	8.589	142	14250	9.48	ng/ml	98	
6) 1-Methylnaphthalene	8.688	142	14747	9.81	ng/ml	97	
7) 1,1'-Biphenyl	9.055	154	19088	9.44	ng/ml	99	
8) 2,6-Dimethylnaphthalene	9.212	156	13690	9.27	ng/ml	97	
12) Acenaphthylene	9.498	152	25683	10.00	ng/ml	98	
13) Acenaphthene	9.673	153	16768	9.97	ng/ml	99	
14) Dibenzofuran	9.848	168	21062	10.00	ng/ml	97	
15) 1,6,7-Trimethylnaphtha...	10.057	170	13937	9.88	ng/ml	99	
16) Fluorene	10.191	166	16819	9.77	ng/ml	100	
18) Dibenzothiopene	11.042	184	22465	9.93	ng/ml	98	
19) Phenanthrene	11.171	178	25204	9.95	ng/ml	100	
20) Anthracene	11.223	178	22988	9.76	ng/ml	100	
21) Carbazole	11.380	167	17697	No Calib			
22) 1-Methylphenanthrene	11.794	192	17190	9.77	ng/ml	100	
23) Fluoranthene	12.435	202	24321	9.53	ng/ml	98	
25) Pyrene	12.721	202	25073	10.47	ng/ml	99	
27) Benz(a)anthracene	14.883	228	16760	9.42	ng/ml	97	
28) Chrysene	14.965	228	16658	9.89	ng/ml	99	
30) Benzo(b)fluoranthene	17.466	252	13743	9.46	ng/ml	97	
31) Benzo(k)fluoranthene	17.530	252	13038	9.12	ng/ml	95	
32) Benzo(b+k)fluoranthene	17.466	252	28065	9.45	ng/ml	95	
34) Benzo(e)pyrene	18.113	252	13726	9.35	ng/ml	98	
35) Benzo(a)pyrene	18.229	252	11353	9.13	ng/ml	99	
36) Perylene	18.433	252	14964	9.77	ng/ml	97	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	9774	9.66	ng/ml	91	
39) Dibenz(a,h)anthracene	20.829	278	9159	9.63	ng/ml	90	
40) Benzo(g,h,i)perylene	21.295	276	10267	9.56	ng/ml	92	

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061916.D
 Acq On : 06 Sep 2019 06:27 pm
 Operator :
 Sample : 9I06028-CAL4
 Misc : 1x, A19I018@10
 ALS Vial : 6 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:05 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061917.D
 Acq On : 06 Sep 2019 07:00 pm
 Operator :
 Sample : 9I06028-CAL5
 Misc : 1x, A19I019@25
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LV114_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

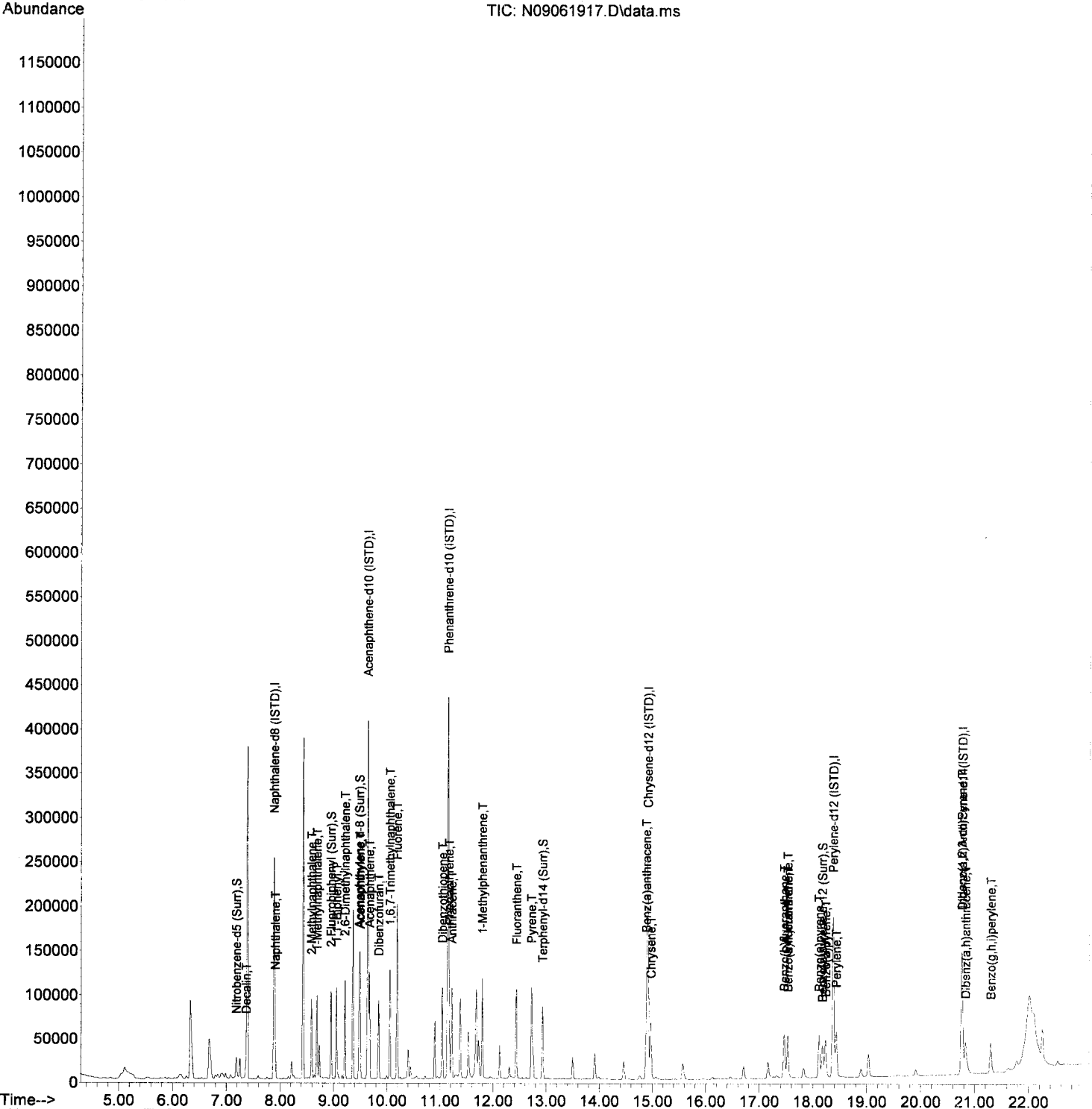
Handwritten: Jd 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	158689	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	118239	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	219818	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	167298	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	142122	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	96960	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	12124	22.99	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	44333	25.13	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	62320	24.95	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	44339	25.20	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	27791	24.45	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.365	138	2777	23.50	ng/ml		94
4) Naphthalene	7.907	128	43246	24.71	ng/ml		99
5) 2-Methylnaphthalene	8.589	142	35507	23.94	ng/ml		98
6) 1-Methylnaphthalene	8.688	142	36615	24.69	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	47414	23.77	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	35377	24.28	ng/ml		98
12) Acenaphthylene	9.498	152	64887	25.28	ng/ml		98
13) Acenaphthene	9.673	153	41951	24.95	ng/ml	100	
14) Dibenzofuran	9.848	168	52926	25.13	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.057	170	34543	24.50	ng/ml		99
16) Fluorene	10.191	166	43186	25.10	ng/ml		99
18) Dibenzothiopene	11.042	184	56622	24.63	ng/ml		98
19) Phenanthrene	11.171	178	63419	24.66	ng/ml	100	
20) Anthracene	11.223	178	58731	24.55	ng/ml		99
21) Carbazole	11.380	167	47604	No Calib			
22) 1-Methylphenanthrene	11.794	192	44094	24.68	ng/ml		99
23) Fluoranthene	12.435	202	63845	24.64	ng/ml		99
25) Pyrene	12.721	202	66093	25.29	ng/ml		99
27) Benz(a)anthracene	14.883	228	46578	23.98	ng/ml		99
28) Chrysene	14.965	228	45910	24.98	ng/ml		99
30) Benzo(b)fluoranthene	17.466	252	40093	24.45	ng/ml		97
31) Benzo(k)fluoranthene	17.530	252	40088	24.83	ng/ml		98
32) Benzo(b+k)fluoranthene	17.530	252	83294	24.83	ng/ml		98
34) Benzo(e)pyrene	18.113	252	40463	24.40	ng/ml		98
35) Benzo(a)pyrene	18.235	252	34709	24.73	ng/ml		99
36) Perylene	18.433	252	43783	25.33	ng/ml	100	
38) Indeno(1,2,3-cd)Pyrene	20.759	276	28895	24.16	ng/ml		94
39) Dibenz(a,h)anthracene	20.829	278	27156	24.16	ng/ml		92
40) Benzo(g,h,i)perylene	21.295	276	31234	24.62	ng/ml		92

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061917.D
 Acq On : 06 Sep 2019 07:00 pm
 Operator :
 Sample : 9I06028-CAL5
 Misc : 1x, A19I019@25
 ALS Vial : 7 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:10 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061918.D
 Acq On : 06 Sep 2019 07:32 pm
 Operator :
 Sample : 9I06028-CAL6
 Misc : 1x, A19I020@50
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

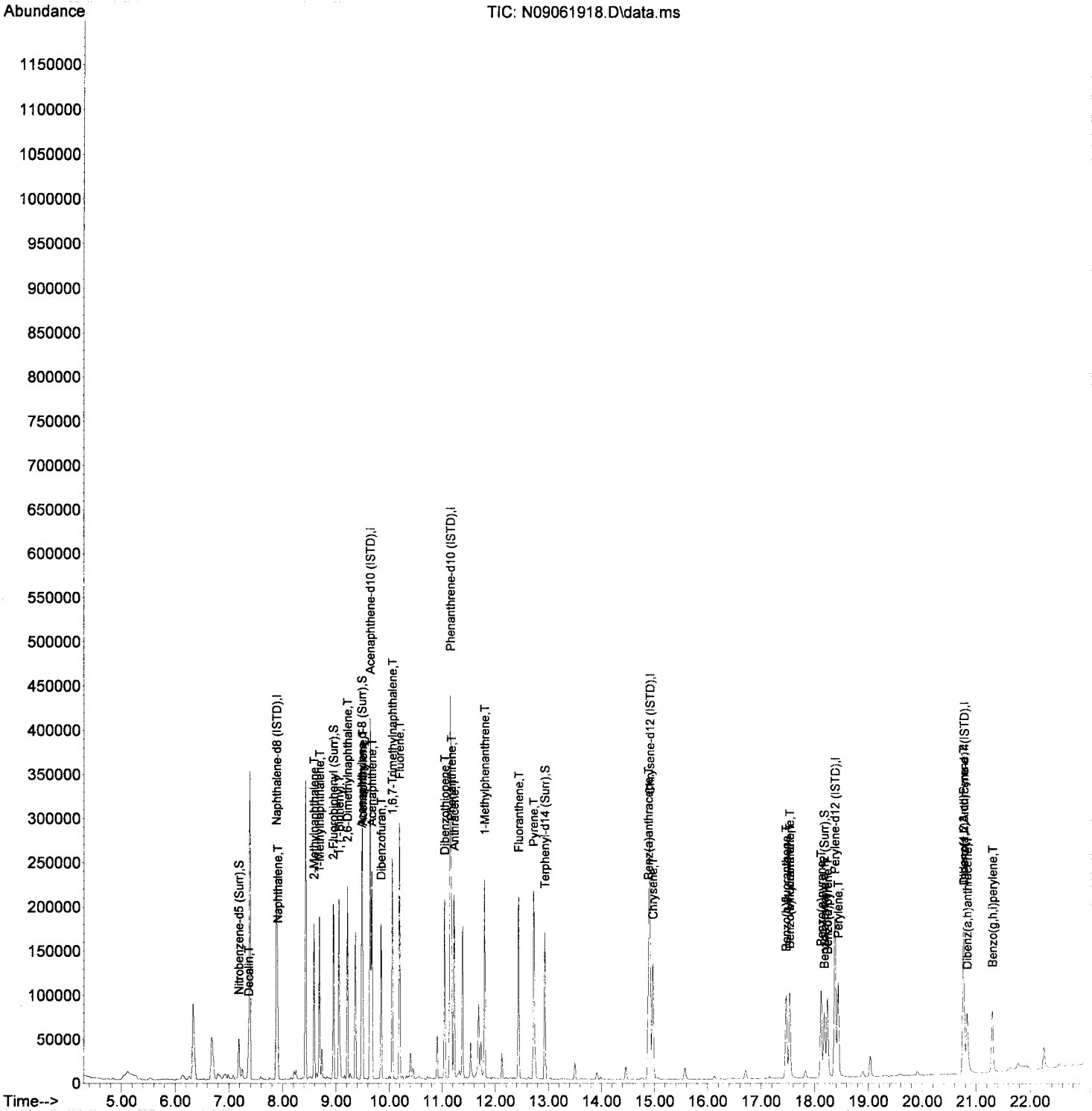
JD 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	148351	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	117951	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	219661	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	169841	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.375	264	142416	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.765	292	93265	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	23996	48.68	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	87417	49.68	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	119179	49.18	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	88785	49.70	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.177	264	57544	50.53	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	5568	50.41	ng/ml		97
4) Naphthalene	7.907	128	80326	49.09	ng/ml		99
5) 2-Methylnaphthalene	8.589	142	69811	50.35	ng/ml		98
6) 1-Methylnaphthalene	8.688	142	71477	51.56	ng/ml		97
7) 1,1'-Biphenyl	9.055	154	93359	50.06	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	69912	51.34	ng/ml		97
12) Acenaphthylene	9.498	152	128075	50.02	ng/ml		99
13) Acenaphthene	9.673	153	82212	49.02	ng/ml		100
14) Dibenzofuran	9.848	168	104783	49.88	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.057	170	68907	48.99	ng/ml		99
16) Fluorene	10.191	166	85319	49.71	ng/ml		100
18) Dibenzothiopene	11.042	184	113451	49.38	ng/ml		98
19) Phenanthrene	11.171	178	126501	49.21	ng/ml		100
20) Anthracene	11.223	178	118187	49.43	ng/ml		99
21) Carbazole	11.380	167	95634	No Calib			
22) 1-Methylphenanthrene	11.794	192	88417	49.52	ng/ml		99
23) Fluoranthene	12.435	202	128587	49.65	ng/ml		99
25) Pyrene	12.721	202	133393	50.27	ng/ml		100
27) Benz(a)anthracene	14.883	228	93207	47.27	ng/ml		100
28) Chrysene	14.965	228	91866	49.23	ng/ml		99
30) Benzo(b)fluoranthene	17.466	252	82867	50.43	ng/ml		98
31) Benzo(k)fluoranthene	17.530	252	79638	49.22	ng/ml		97
32) Benzo(b+k)fluoranthene	17.530	252	167848	49.93	ng/ml		97
34) Benzo(e)pyrene	18.118	252	81957	49.32	ng/ml		99
35) Benzo(a)pyrene	18.235	252	71520	50.85	ng/ml		98
36) Perylene	18.433	252	86757	50.08	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	57046	49.59	ng/ml		90
39) Dibenz(a,h)anthracene	20.829	278	53335	49.34	ng/ml		90
40) Benzo(g,h,i)perylene	21.295	276	61905	50.73	ng/ml		90

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061918.D
 Acq On : 06 Sep 2019 07:32 pm
 Operator :
 Sample : 9I06028-CAL6
 Misc : 1x, A19I020@50
 ALS Vial : 8 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:15 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061919.D
 Acq On : 06 Sep 2019 08:04 pm
 Operator :
 Sample : 9I06028-CAL7
 Misc : 1x, A19I021@100
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

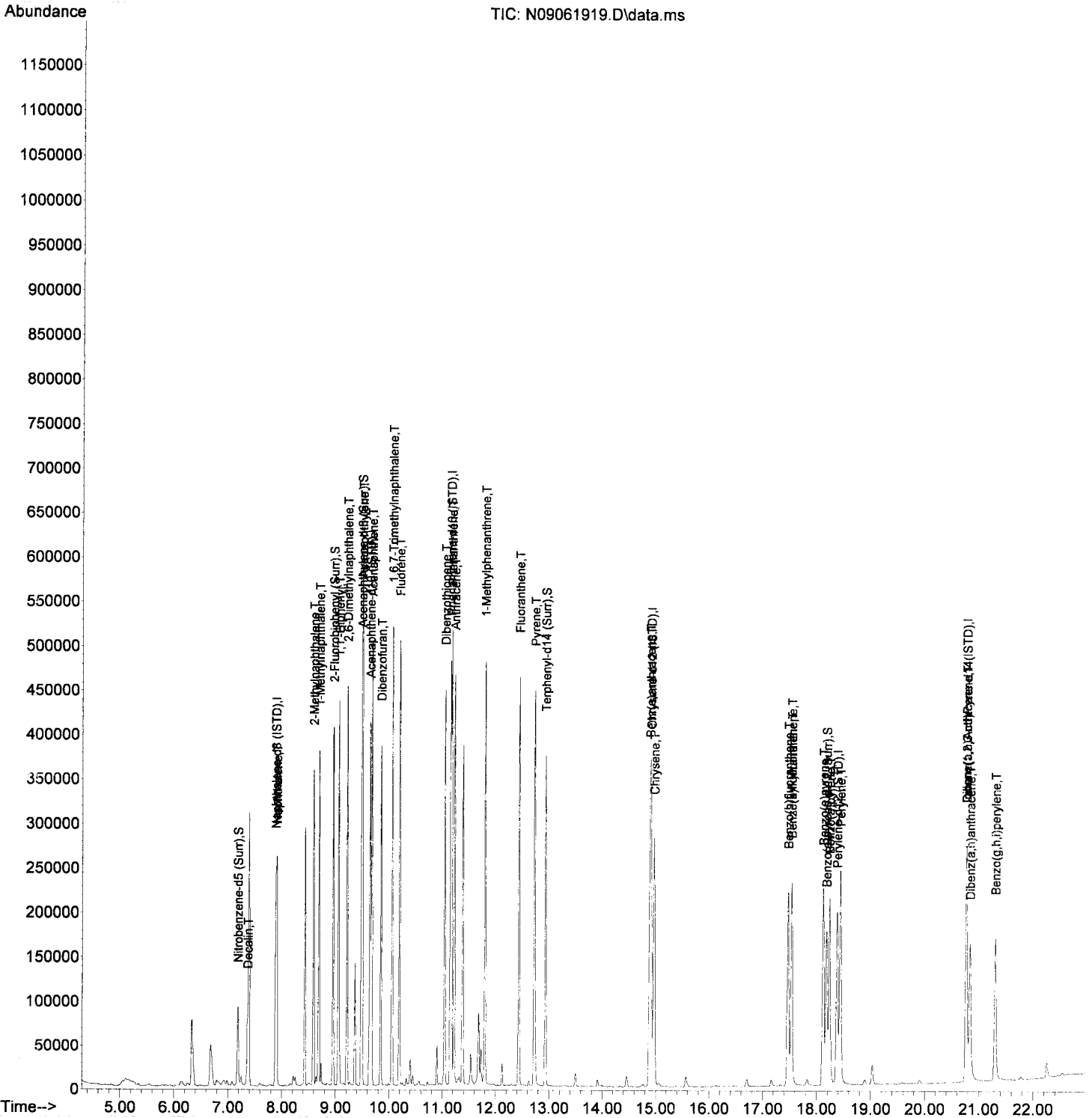
JD 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	148917	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	121411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	233582	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	240	187274	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	159070	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.764	292	103600	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	48056	97.11	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.956	172	182001	100.48	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	248072	101.01	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	196418	99.72	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.182	264	134446	105.69	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	11430	103.09	ng/ml		94
4) Naphthalene	7.906	128	161201	98.15	ng/ml		100
5) 2-Methylnaphthalene	8.588	142	143766	103.29	ng/ml		99
6) 1-Methylnaphthalene	8.687	142	146804	105.50	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	197491	105.50	ng/ml		99
8) 2,6-Dimethylnaphthalene	9.212	156	148070	108.31	ng/ml		97
12) Acenaphthylene	9.498	152	272913	103.54	ng/ml		99
13) Acenaphthene	9.672	153	175245	101.51	ng/ml		100
14) Dibenzofuran	9.847	168	222327	102.81	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.057	170	147218	101.68	ng/ml		100
16) Fluorene	10.191	166	185216	104.84	ng/ml		99
18) Dibenzothiopene	11.042	184	245278	100.40	ng/ml		98
19) Phenanthrene	11.170	178	270427	98.94	ng/ml		100
20) Anthracene	11.223	178	259236	101.96	ng/ml		99
21) Carbazole	11.380	167	211369	No Calib			
22) 1-Methylphenanthrene	11.794	192	192550	101.41	ng/ml		98
23) Fluoranthene	12.435	202	280652	101.91	ng/ml		99
25) Pyrene	12.727	202	292089	99.83	ng/ml		99
27) Benz(a)anthracene	14.889	228	213884	98.37	ng/ml		99
28) Chrysene	14.971	228	205074	99.67	ng/ml		99
30) Benzo(b)fluoranthene	17.471	252	189979	103.50	ng/ml		97
31) Benzo(k)fluoranthene	17.535	252	190175	105.23	ng/ml		97
32) Benzo(b+k)fluoranthene	17.535	252	390913	104.11	ng/ml		97
34) Benzo(e)pyrene	18.124	252	188367	101.49	ng/ml		98
35) Benzo(a)pyrene	18.241	252	165951	105.68	ng/ml		99
36) Perylene	18.439	252	198533	102.60	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.764	276	130568	102.18	ng/ml		90
39) Dibenz(a,h)anthracene	20.834	278	122057	101.65	ng/ml		90
40) Benzo(g,h,i)perylene	21.301	276	143780	106.06	ng/ml		91

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061919.D
 Acq On : 06 Sep 2019 08:04 pm
 Operator :
 Sample : 9I06028-CAL7
 Misc : 1x, A19I021@100
 ALS Vial : 9 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:19 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061920.D
 Acq On : 06 Sep 2019 08:37 pm
 Operator :
 Sample : 9I06028-CAL8
 Misc : 1x, A19I022@200
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

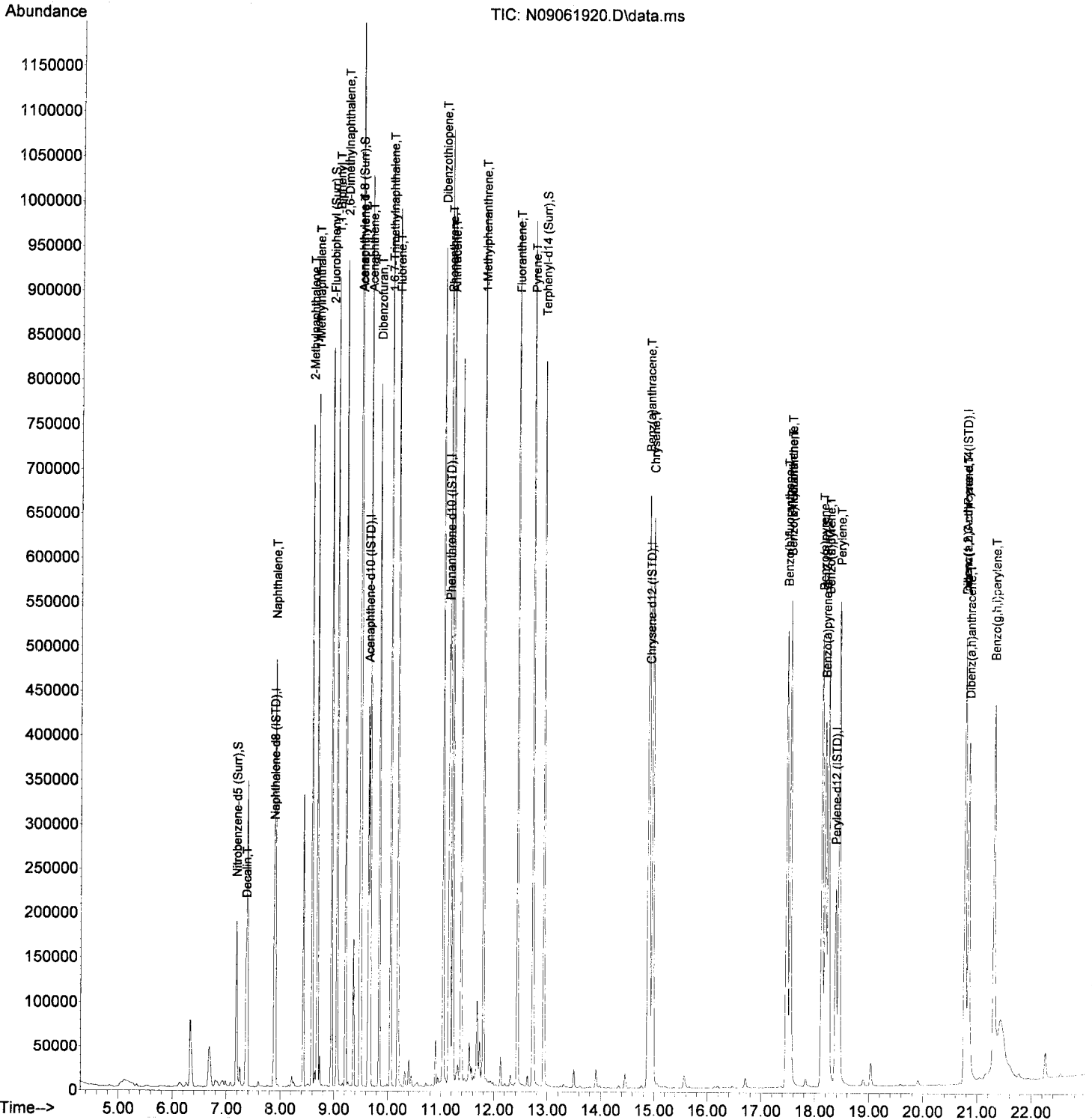
JK 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.913	240	211033	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.381	264	182214	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.770	292	126578	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	99288	200.83	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.956	172	378966	200.57	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.486	160	514554	202.58	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	430770	194.09	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.188	264	322602	221.39	ng/ml	0.01	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	22829	206.09	ng/ml		95
4) Naphthalene	7.907	128	324908	198.00	ng/ml		100
5) 2-Methylnaphthalene	8.588	142	297992	214.30	ng/ml		98
6) 1-Methylnaphthalene	8.688	142	304942	219.34	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	413306	220.99	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	307564	225.18	ng/ml		99
12) Acenaphthylene	9.498	152	568160	206.64	ng/ml		99
13) Acenaphthene	9.673	153	362489	201.28	ng/ml		100
14) Dibenzofuran	9.848	168	462691	205.12	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.057	170	307091	203.33	ng/ml		98
16) Fluorene	10.197	166	391380	212.38	ng/ml		99
18) Dibenzothiopene	11.042	184	515882	201.91	ng/ml		98
19) Phenanthrene	11.171	178	575793	201.42	ng/ml		100
20) Anthracene	11.223	178	544931	204.94	ng/ml		99
21) Carbazole	11.380	167	461912	No Calib			
22) 1-Methylphenanthrene	11.800	192	411489	207.21	ng/ml		99
23) Fluoranthene	12.435	202	599723	208.23	ng/ml		99
25) Pyrene	12.727	202	623857	189.22	ng/ml		100
27) Benz(a)anthracene	14.889	228	484834	197.88	ng/ml		99
28) Chrysene	14.971	228	465584	200.80	ng/ml		99
30) Benzo(b)fluoranthene	17.477	252	448476	213.30	ng/ml		96
31) Benzo(k)fluoranthene	17.541	252	445148	215.03	ng/ml		97
32) Benzo(b+k)fluoranthene	17.541	252	917698	213.36	ng/ml		97
34) Benzo(e)pyrene	18.130	252	441980	207.89	ng/ml		99
35) Benzo(a)pyrene	18.247	252	395245	219.68	ng/ml		98
36) Perylene	18.451	252	467343	210.85	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.770	276	319524	204.65	ng/ml		89
39) Dibenz(a,h)anthracene	20.840	278	302142	205.95	ng/ml		89
40) Benzo(g,h,i)perylene	21.307	276	353209	213.26	ng/ml		90

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061920.D
 Acq On : 06 Sep 2019 08:37 pm
 Operator :
 Sample : 9I06028-CAL8
 Misc : 1x, A19I022@200
 ALS Vial : 10 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:30 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061921.D
 Acq On : 06 Sep 2019 09:09 pm
 Operator :
 Sample : 9I06028-CAL9
 Misc : 1x, A19I023@300
 ALS Vial : 11 Sample Multiplier: 1
 DataAcqMeth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

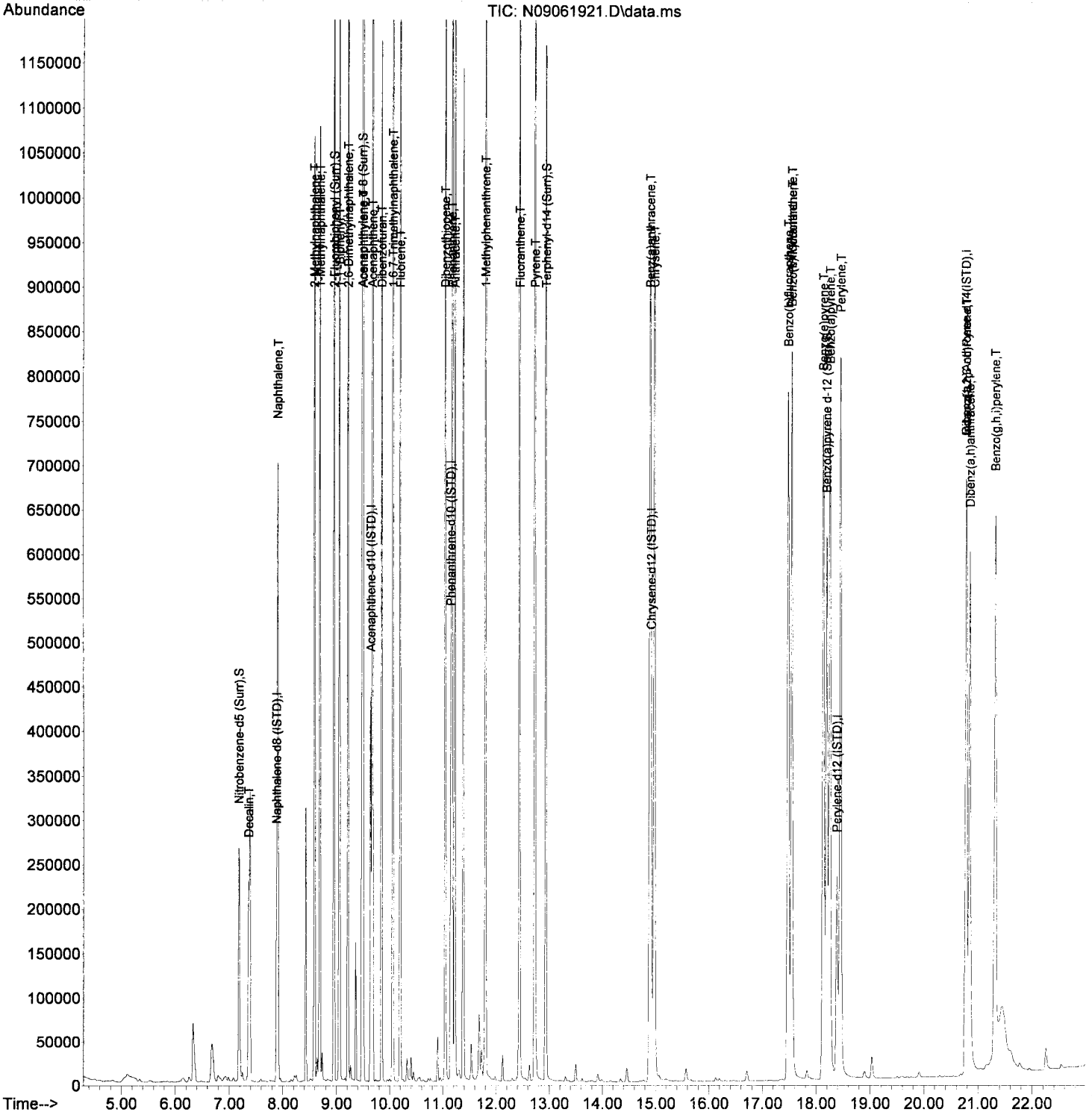
9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.883	136	144322	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	126204	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	242216	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.918	240	215566	100.00	ng/ml	0.01	
29) Perylene-d12 (ISTD)	18.386	264	189767	100.00	ng/ml	0.01	
37) Dibenz(a,h)Anthracene-d...	20.776	292	133133	100.00	ng/ml	0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.184	82	146381	305.23	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.955	172	559316	297.07	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.486	160	745779	295.55	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.936	244	642064	283.20	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.194	264	500951	330.10	ng/ml	0.02	
Target Compounds							
							Qvalue
3) Decalin	7.364	138	32583	303.24	ng/ml		97
4) Naphthalene	7.906	128	466678	293.18	ng/ml		100
5) 2-Methylnaphthalene	8.588	142	433604	321.46	ng/ml		99
6) 1-Methylnaphthalene	8.693	142	439781	326.10	ng/ml		99
7) 1,1'-Biphenyl	9.055	154	601929	331.80	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.218	156	447080	337.45	ng/ml		99
12) Acenaphthylene	9.498	152	818063	298.58	ng/ml		99
13) Acenaphthene	9.672	153	525474	292.81	ng/ml		99
14) Dibenzofuran	9.847	168	670519	298.30	ng/ml		100
15) 1,6,7-Trimethylnaphtha...	10.057	170	446194	296.47	ng/ml		97
16) Fluorene	10.197	166	565155	307.76	ng/ml		99
18) Dibenzothiopene	11.042	184	757296	298.94	ng/ml		98
19) Phenanthrene	11.170	178	823752	290.63	ng/ml		99
20) Anthracene	11.223	178	800967	303.81	ng/ml		100
21) Carbazole	11.380	167	683176	No Calib			
22) 1-Methylphenanthrene	11.800	192	600130	304.80	ng/ml		99
23) Fluoranthene	12.441	202	885026	309.92	ng/ml		98
25) Pyrene	12.727	202	915663	271.88	ng/ml		100
27) Benz(a)anthracene	14.895	228	736689	294.35	ng/ml		100
28) Chrysene	14.976	228	698605	294.96	ng/ml		99
30) Benzo(b)fluoranthene	17.483	252	692733	316.36	ng/ml		96
31) Benzo(k)fluoranthene	17.547	252	681890	316.29	ng/ml		97
32) Benzo(b+k)fluoranthene	17.547	252	1407871	314.29	ng/ml		97
34) Benzo(e)pyrene	18.136	252	676479	305.53	ng/ml		99
35) Benzo(a)pyrene	18.258	252	607972	324.39	ng/ml		98
36) Perylene	18.456	252	713926	309.27	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	498760	303.72	ng/ml		88
39) Dibenz(a,h)anthracene	20.846	278	471957	305.86	ng/ml		90
40) Benzo(g,h,i)perylene	21.318	276	546350	313.63	ng/ml		89

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061921.D
 Acq On : 06 Sep 2019 09:09 pm
 Operator :
 Sample : 9I06028-CAL9
 Misc : 1x, A19I023@300
 ALS Vial : 11 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:34 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061922.D
 Acq On : 06 Sep 2019 09:41 pm
 Operator :
 Sample : 9I06028-CALA
 Misc : 1x, A19I024@400
 ALS Vial : 12 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

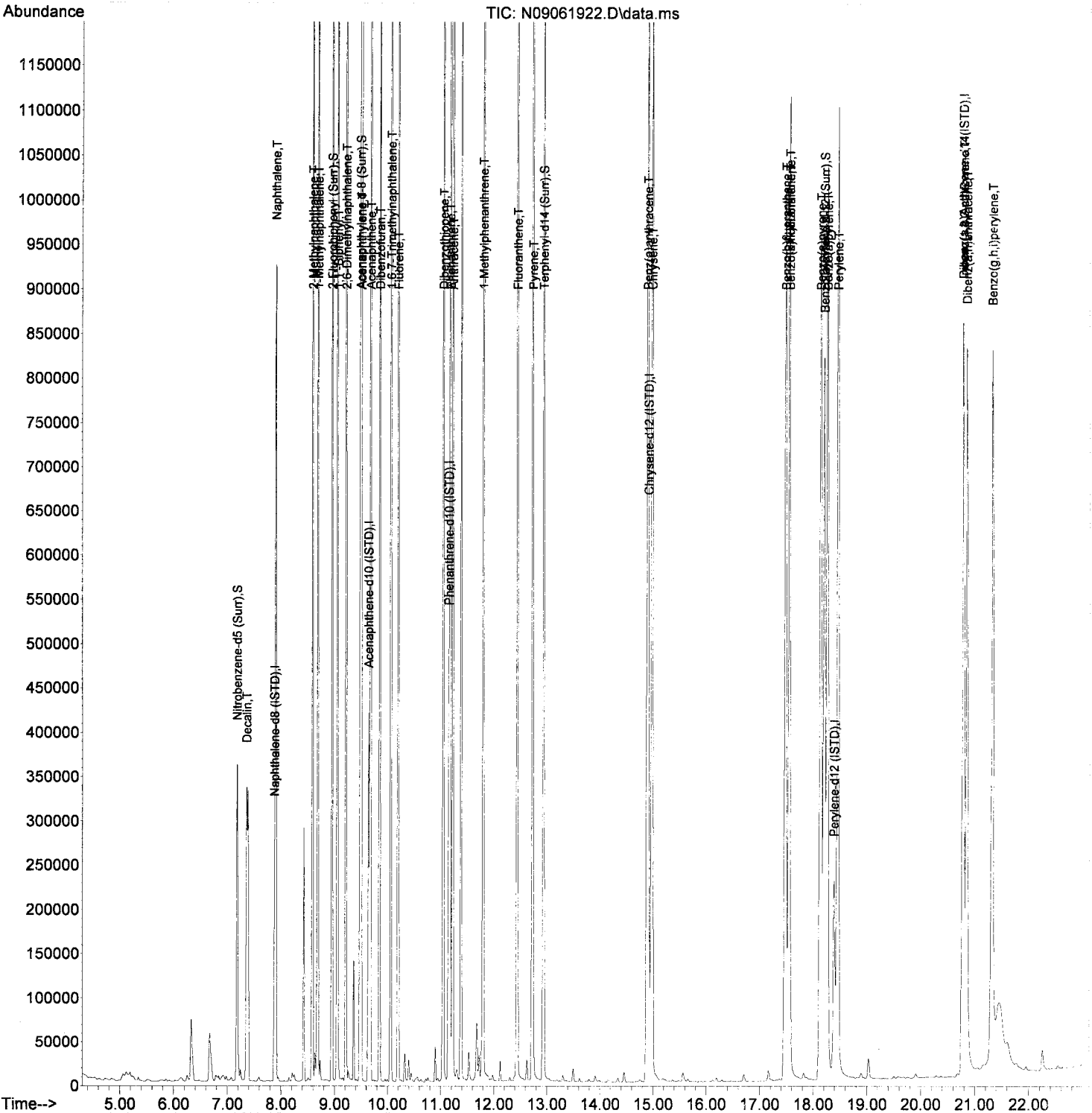
Handwritten signature and date: 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	151798	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	120378	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	227701	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.913	240	211373	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.387	264	191099	100.00	ng/ml	0.01	
37) Dibenz(a,h)Anthracene-d...	20.776	292	134738	100.00	ng/ml	0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	204654	405.72	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	721151	401.56	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.480	160	964800	401.86	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.931	244	855839	384.98	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.200	264	689197	450.98	ng/ml	0.02	
Target Compounds							
							Qvalue
3) Decalin	7.359	138	49479	437.80	ng/ml		96
4) Naphthalene	7.901	128	662079	395.46	ng/ml		100
5) 2-Methylnaphthalene	8.589	142	592165	417.39	ng/ml		99
6) 1-Methylnaphthalene	8.688	142	595669	419.94	ng/ml		98
7) 1,1'-Biphenyl	9.055	154	776505	406.95	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.212	156	574431	412.22	ng/ml		99
12) Acenaphthylene	9.498	152	1039006	397.57	ng/ml		99
13) Acenaphthene	9.673	153	672408	392.83	ng/ml		99
14) Dibenzofuran	9.848	168	849810	396.36	ng/ml		99
15) 1,6,7-Trimethylnaphtha...	10.057	170	567245	395.14	ng/ml		98
16) Fluorene	10.191	166	710688	405.74	ng/ml		99
18) Dibenzothiopene	11.042	184	950081	398.95	ng/ml		98
19) Phenanthrene	11.171	178	1041489	390.88	ng/ml		99
20) Anthracene	11.223	178	1015402	409.70	ng/ml		100
21) Carbazole	11.380	167	865078	No Calib			
22) 1-Methylphenanthrene	11.794	192	771189	416.65	ng/ml		99
23) Fluoranthene	12.435	202	1148955	427.99	ng/ml		98
25) Pyrene	12.727	202	1201811	363.93	ng/ml		100
27) Benz(a)anthracene	14.889	228	991720	404.11	ng/ml		99
28) Chrysene	14.977	228	942172	405.69	ng/ml		99
30) Benzo(b)fluoranthene	17.483	252	952609	432.01	ng/ml		96
31) Benzo(k)fluoranthene	17.553	252	938589	432.32	ng/ml		96
32) Benzo(b+k)fluoranthene	17.553	252	1935514	429.07	ng/ml		96
34) Benzo(e)pyrene	18.136	252	924774	414.75	ng/ml		99
35) Benzo(a)pyrene	18.258	252	837229	443.59	ng/ml		98
36) Perylene	18.456	252	976822	420.21	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.782	276	691371	416.00	ng/ml		88
39) Dibenz(a,h)anthracene	20.846	278	656172	420.18	ng/ml		89
40) Benzo(g,h,i)perylene	21.318	276	751545	426.28	ng/ml		89

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061922.D
 Acq On : 06 Sep 2019 09:41 pm
 Operator :
 Sample : 9I06028-CALA
 Misc : 1x, A19I024@400
 ALS Vial : 12 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 10:14:28 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

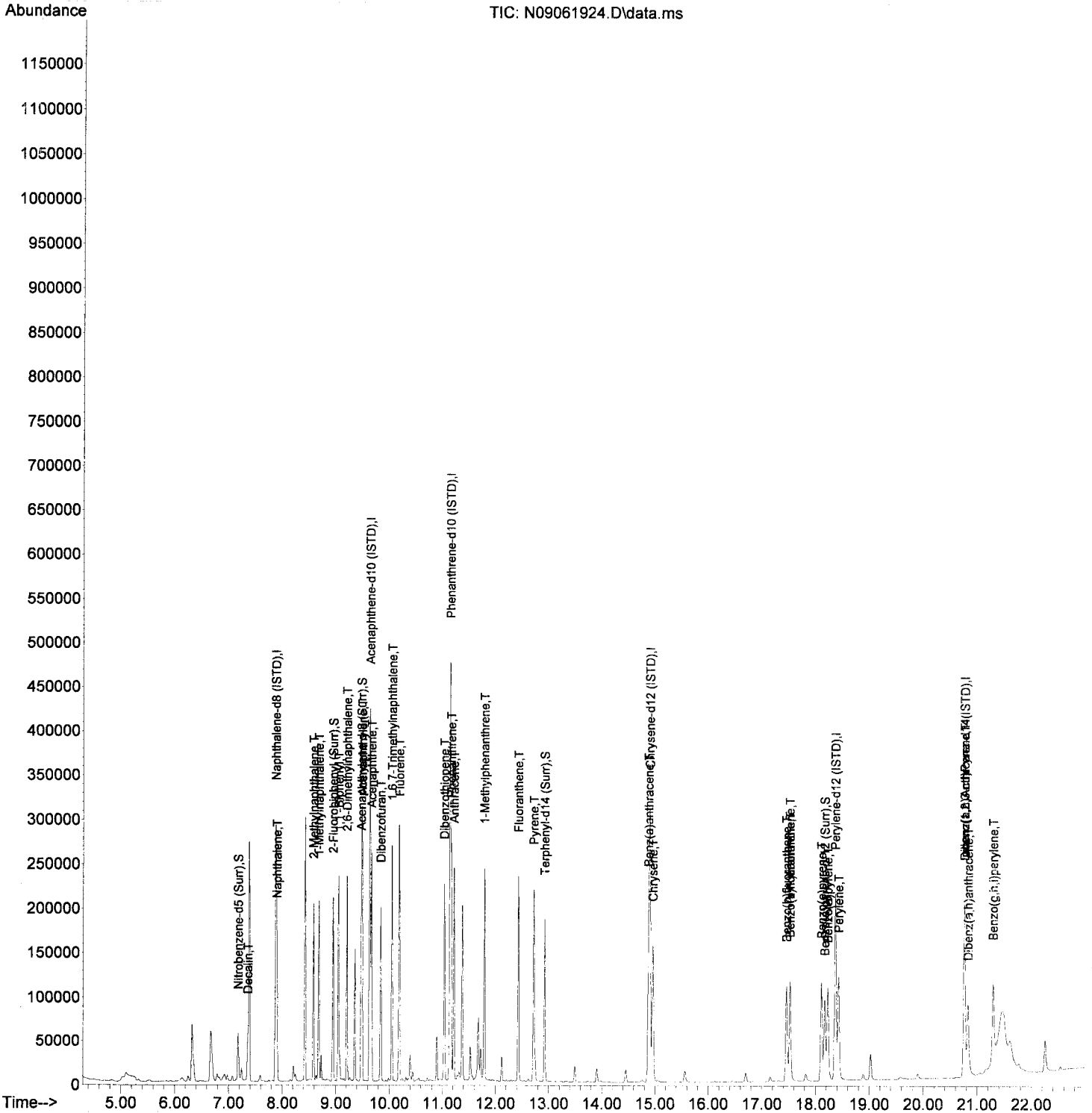
Handwritten signature/initials
 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.759	292	108931	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00	
Target Compounds							
3) Decalin	7.359	138	6597	48.75	ng/ml		Qvalue 96
4) Naphthalene	7.901	128	100112	49.94	ng/ml		99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml		98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml		99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml		100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml		99
16) Fluorene	10.191	166	92650	50.87	ng/ml		98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml		98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml		100
20) Anthracene	11.217	178	132505	51.79	ng/ml		99
21) Carbazole	11.375	167	104923	No Calib			
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml		100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml		99
25) Pyrene	12.721	202	144864	49.14	ng/ml		99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml		99
28) Chrysene	14.959	228	108583	52.38	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml		97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml		97
32) Benzo(b+k)fluoranthene	17.524	252	193724	50.37	ng/ml		97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml		98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml		99
36) Perylene	18.427	252	100869	50.89	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.97	ng/ml		89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.33	ng/ml		90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.57	ng/ml		91

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

Data Path : N:\data\2019-09\9I06028\
Data File : N09061924.D
Acq On : 06 Sep 2019 10:45 pm
Operator :
Sample : 9I06028-ICV1
Misc : 1x, A19I025@50
ALS Vial : 13 Sample Multiplier: 1
DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 09 14:47:49 2019
Quant Method : N:\methods\SV14_090619_PAH.M
Quant Title : EPA 8270D: Semivolatile Organics
QLast Update : Mon Sep 09 10:14:28 2019
Response via : Initial Calibration
InstName : SV-GCMS14



Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Final Request

Quant Time: Sep 10 10:28:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14

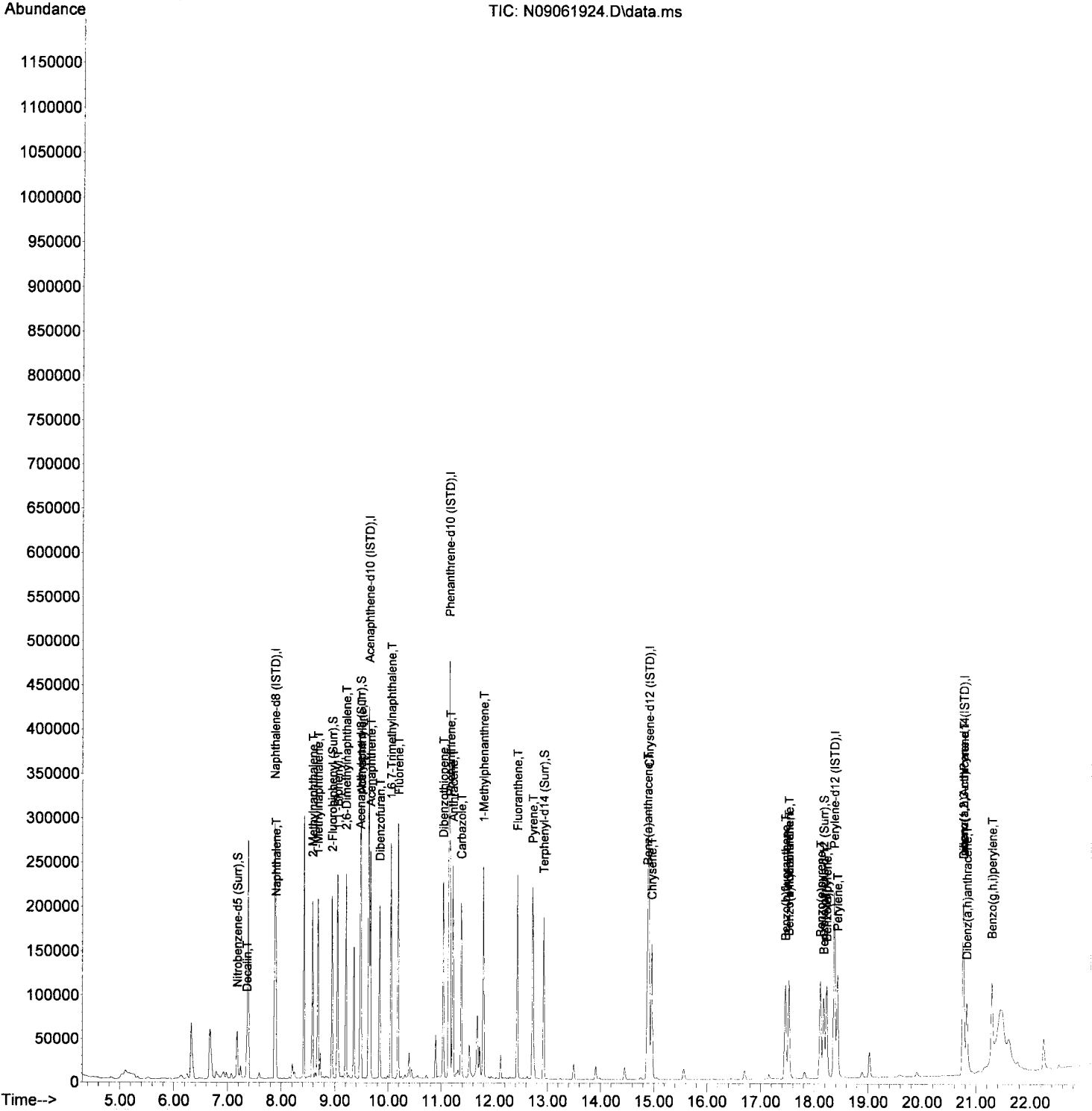
JD 9/10/19

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	240	188693	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.369	264	162940	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.759	292	108931	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.178	82	27909	46.21	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.950	172	92755	49.67	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.474	160	126796	49.31	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.925	244	96645	48.70	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	18.171	264	69335	53.21	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.359	138	6597	48.75	ng/ml		96
4) Naphthalene	7.901	128	100112	49.94	ng/ml		99
5) 2-Methylnaphthalene	8.583	142	79542	46.83	ng/ml		99
6) 1-Methylnaphthalene	8.682	142	81122	47.77	ng/ml		98
7) 1,1'-Biphenyl	9.049	154	105870	46.34	ng/ml		98
8) 2,6-Dimethylnaphthalene	9.206	156	76410	45.80	ng/ml		98
12) Acenaphthylene	9.492	152	141177	51.95	ng/ml		99
13) Acenaphthene	9.667	153	89594	50.33	ng/ml		100
14) Dibenzofuran	9.842	168	113513	50.91	ng/ml		98
15) 1,6,7-Trimethylnaphtha...	10.052	170	74864	50.15	ng/ml		99
16) Fluorene	10.191	166	92650	50.87	ng/ml		98
18) Dibenzothiopene	11.037	184	122412	49.79	ng/ml		98
19) Phenanthrene	11.165	178	138621	50.40	ng/ml		100
20) Anthracene	11.217	178	132505	51.79	ng/ml		99
21) Carbazole	11.375	167	104923	50.68	ng/ml		99
22) 1-Methylphenanthrene	11.788	192	98289	51.44	ng/ml		100
23) Fluoranthene	12.430	202	140103	50.56	ng/ml		99
25) Pyrene	12.721	202	144864	49.14	ng/ml		99
27) Benz(a)anthracene	14.878	228	106201	48.48	ng/ml		99
28) Chrysene	14.959	228	108583	52.38	ng/ml		99
30) Benzo(b)fluoranthene	17.460	252	95110	50.59	ng/ml		97
31) Benzo(k)fluoranthene	17.524	252	92505	49.97	ng/ml		97
32) Benzo(b+k)fluoranthene	17.524	252	193724	100.73	ng/ml		97
34) Benzo(e)pyrene	18.113	252	95583	50.28	ng/ml		98
35) Benzo(a)pyrene	18.229	252	82357	51.18	ng/ml		99
36) Perylene	18.427	252	100869	50.89	ng/ml		100
38) Indeno(1,2,3-cd)Pyrene	20.759	276	67142	49.98	ng/ml		89
39) Dibenz(a,h)anthracene	20.823	278	62283	49.34	ng/ml		90
40) Benzo(g,h,i)perylene	21.289	276	76359	53.58	ng/ml		91

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

Data Path : N:\data\2019-09\9I06028\
 Data File : N09061924.D
 Acq On : 06 Sep 2019 10:45 pm
 Operator :
 Sample : 9I06028-ICV1
 Misc : 1x, A19I025@50
 ALS Vial : 13 Sample Multiplier: 1
 DataAcq Meth:LVI14_BNA_ACQ.M

Quant Time: Sep 10 10:28:40 2019
 Quant Method : N:\methods\SV14_090619_PAH.M
 Quant Title : EPA 8270D: Semivolatile Organics
 QLast Update : Mon Sep 09 14:58:53 2019
 Response via : Initial Calibration
 InstName : SV-GCMS14



**Conventional Chemistry Parameters
Benchsheet & Analysis Sequence Data**

Total Organic Carbon- Soil (5310 B)

Batch 0020404
Sequence 0B17050 (A0B0288-01)



Apex Laboratories
PREPARATION BENCH SHEET

BATCH #: 0020404 (Soil)

Prep Method: PSEP-5310B TOC

#	Lab Number	Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	8	>11
	0020404-BLK1	QC	02/12/20 18:30	0.2	0.2									
	0020404-BS1	QC	02/12/20 18:30	0.2	0.2	A19K246		1						
	A0B0288-01	A Total Organic Carbon - Soil (5310 B)	02/12/20 18:30	0.2	0.2					PDI-077SC-A-02-03-191014				
	0020404-DUP1	QC	02/12/20 18:30	0.2	0.2		A0B0288-01							
	0020404-DUP2	QC	02/12/20 18:30	0.2	0.2		A0B0288-01				triplicate			

Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19F020	06/03/29	TOC Soil Drying Oven @70oC	A19K246	05/12/20	TOC 10k ppm secondary			
A19J023	11/30/23	Wet Chem Balance 4						
A19J145	05/30/22	TOC Soil Blank Matrix						
A19L107	06/06/20	10% Phosphoric Acid						

Prepared By:

Date

CMR 2/18/2020

Reviewed By:

Date

SLUF 2/19/20

Batch 0020404

MAS
2-13-20 TOC PSEP preweigh
1658

Analyst DAS

Date/Time:	2-13-20/11:03	2-13-20/1758	2-14-20/1147		Effervesces?	Comments
T(°C) IN / OUT:	70.7 / 70.7	71.2 / 71.5	71.5 / 71.5	1		
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
A0B0288-01	5.9616	5.9671	5.9609	.	NO	
0020404-DUP1	4.1975	4.1995			NO	
						NO 1/17/2020

In oven @ 70.7°C 2/12/2020 1830
2/13/2020



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0B17050
Date: 02/17/20 15:37

Instrument: TOC6
Calibration: A0A0805

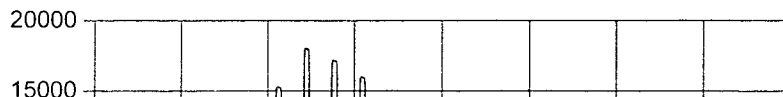
#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0B17050-CCV1	Soil	QC	QC				A20B041
2	0B17050-CCB1	Soil	QC	QC				
3	0020346-BLK1	Soil	QC	QC		0020346		
4	0020346-BS1	Soil	QC	QC		0020346		
5	A0B0203-01	Soil	Total Organic Carbon - Soil (5310 B)		02/20/20	0020346		
6	0020346-DUP1	Soil	QC	QC		0020346		
7	0020346-DUP2	Soil	QC	QC		0020346		
8	A0B0203-02	Soil	Total Organic Carbon - Soil (5310 B)		02/20/20	0020346		
9	A0B0203-03	Soil	Total Organic Carbon - Soil (5310 B)		02/20/20	0020346		
10	A0B0203-04	Soil	Total Organic Carbon - Soil (5310 B)		02/20/20	0020346		
11	A0B0203-05	Soil	Total Organic Carbon - Soil (5310 B)		02/20/20	0020346		
12	A0B0203-06	Soil	Total Organic Carbon - Soil (5310 B)		02/20/20	0020346		
13	0B17050-CCV2	Soil	QC	QC				A20B041
14	0B17050-CCB2	Soil	QC	QC				
15	0020404-BLK1	Soil	QC	QC		0020404		
16	0020404-BS1	Soil	QC	QC		0020404		
17	A0B0288-01	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	02/25/20	0020404		
18	0020404-DUP1	Soil	QC	QC		0020404		
19	0020404-DUP2	Soil	QC	QC		0020404		
20	0B17050-CCV3	Soil	QC	QC				A20B041
21	0B17050-CCB3	Soil	QC	QC				

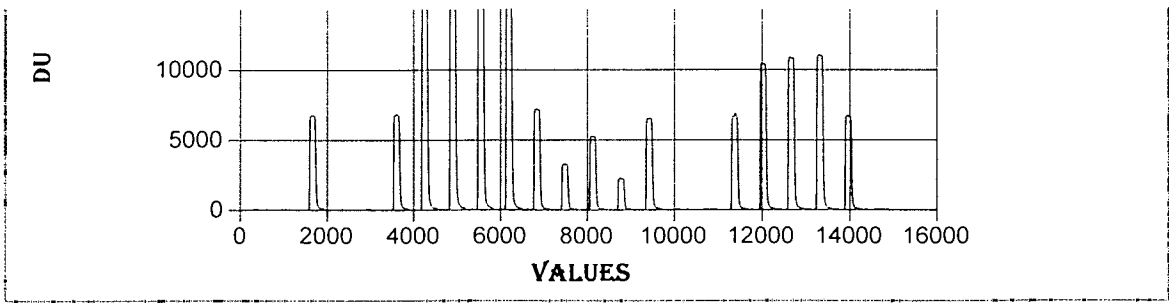
Data Entered By: *CMA 2/18/2020* Comments:

Data Reviewed By: *ALF 2/19/20*

Method: TCDirect Run Start Time: 2/17/2020 4:22:55 P
 Method Type: TC_DIRECT Run End Time: 2/17/2020 8:36:56 P
 Table: 0b17050 ✓ Device ID: TOC6 ✓
 Analyst: Administrator Run Name: SN10020200217A1

Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A99	Prime	200	51.097	0.01	4477.305	2/17/2020 4:23:08 PM
A2	Blank	200	30.176	0.006	2276	2/17/2020 4:34:08 PM
A1	0B17050-CCV1	200	9459.103✓	1.892	994381.015	2/17/2020 4:45:01 PM
A2	0B17050-CCB1	200	47.877✓	0.01	4138.46	2/17/2020 4:55:47 PM
A3	0020346-BLK1	210.4	75.716✓	0.016	7481.94	2/17/2020 5:06:34 PM
A4	0020346-BS1	200	9639.27	1.928	1013338.105	2/17/2020 5:17:21 PM
A5	A0B0203-01	103.1	41526.984	4.281	2251547.18	2/17/2020 5:28:08 PM
A6	0020346-DUP1	100.9	50272.074	5.072	2667700.1	2/17/2020 5:38:55 PM
A7	0020346-DUP2	104.5	46365.095	4.845	2548118.435	2/17/2020 5:49:42 PM
A8	A0B0203-02	107.6	42032.613	4.523	2378482.185	2/17/2020 6:00:29 PM
A9	A0B0203-03	105.6	19482.44	2.057	1081463.19	2/17/2020 6:11:16 PM
A10	A0B0203-04	104.4	9009.35	0.941	493934.68	2/17/2020 6:22:03 PM
A11	A0B0203-05	102.5	14729.399	1.51	793382.105	2/17/2020 6:32:49 PM
A12	A0B0203-06	105.9	6167.606	0.653	342720.53	2/17/2020 6:43:37 PM
A13	0B17050-CCV2	200	9561.389✓	1.912	1005143.445	2/17/2020 6:54:23 PM
A2	0B17050-CCB2	200	58.087✓	0.012	5212.805	2/17/2020 7:05:11 PM
A14	0020404-BLK1	212	65.882✓	0.014	6448.91	2/17/2020 7:16:05 PM
A15	0020404-BS1	200	9732.623	1.947	1023160.63	2/17/2020 7:26:59 PM
A16	A0B0288-01	201.4	14955.338	3.012	1583706.12	2/17/2020 7:37:46 PM
A17	0020404-DUP1	206.4	15209.514	3.139	1650645.9	2/17/2020 7:48:32 PM
A18	0020404-DUP2	205.5	15513.925	3.188	1676355.16	2/17/2020 7:59:19 PM
A19	0B17050-CCV3	200	9768.109✓	1.954	1026894.41	2/17/2020 8:10:06 PM
A2	0B17050-CCB3	200	64.476✓	0.013	5885.01	2/17/2020 8:20:53 PM





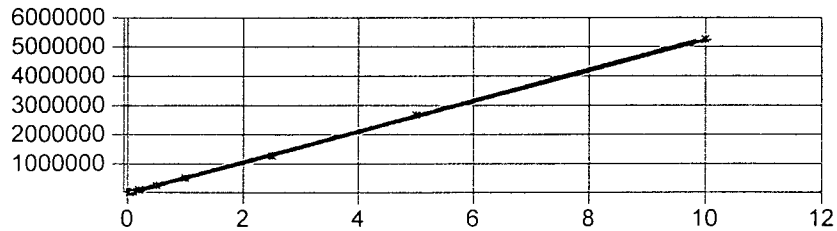
SNACCESS

RUN NAME : SN10020200108A1 METHOD NAME : TCDIRECT CALIBRATION TYPE : ISO

FIRST ORDER GROUP : 1

A = -899.10605459823300 B = 526096.46424181900000 R = 0.99994117364848 R-

SQUARED = 0.99988235075750



**Conventional Chemistry Parameters
Calibration Data**

Sequence 0A08052 (Cal ID A0A0805) TOC6



ELEMENT SEQUENCE LOG

Apex Laboratories

JAN 13 2020

Sequence: 0A08052

Instrument: TOC6

Date: 01/08/20 16:29

Calibration: A0A0805

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A08052-CAL1	Sediment	QC	QC				
2	0A08052-CAL2	Sediment	QC	QC				A20A053
3	0A08052-CAL3	Sediment	QC	QC				A20A054
4	0A08052-CAL4	Sediment	QC	QC				A20A056
5	0A08052-CAL5	Sediment	QC	QC				A20A057
6	0A08052-CAL6	Sediment	QC	QC				A20A058
7	0A08052-CAL7	Sediment	QC	QC				A20A059
8	0A08052-CAL8	Sediment	QC	QC				A20A060
9	0A08052-CAL9	Sediment	QC	QC				A20A061
10	0A08052-ICV1	Sediment	QC	QC				A19K246
11	0A08052-ICB1	Sediment	QC	QC				

Data Entered By: *CLM* 1/9/2020

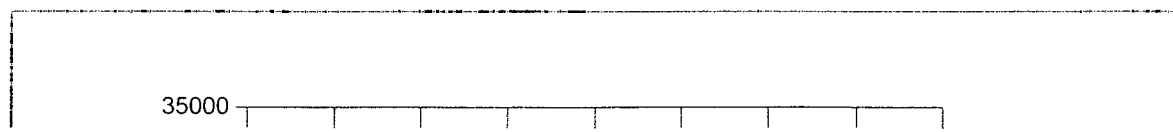
Comments: *SKalar ID SAN10020200108A1*
aw
1/9/2020

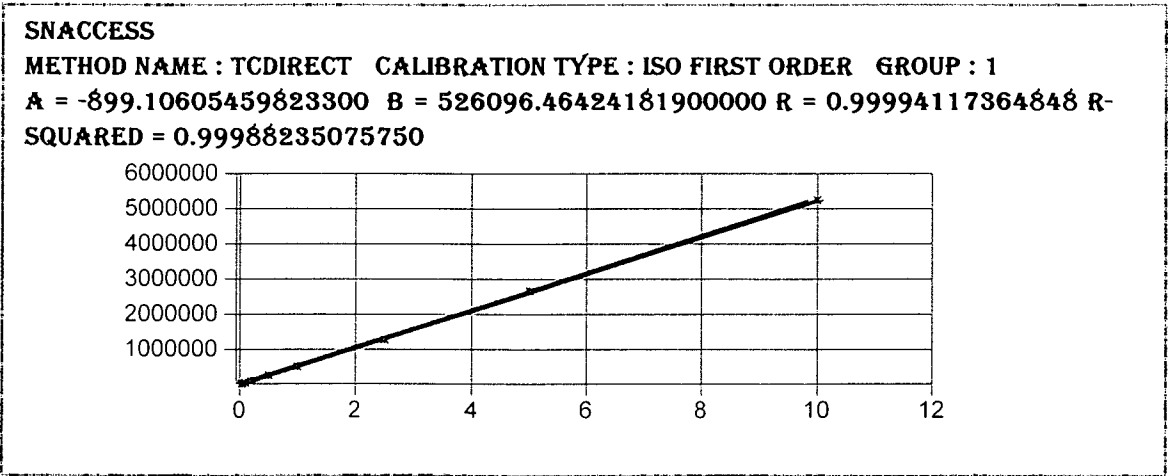
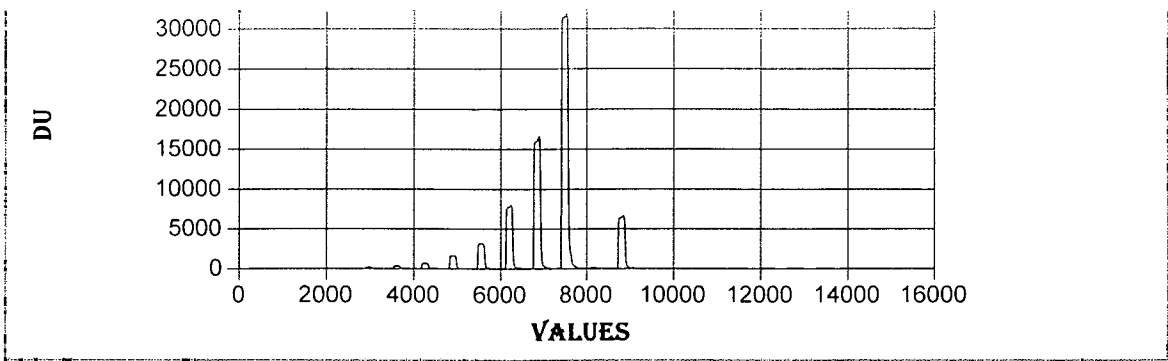
Data Reviewed By: *DMF* 1/10/20

Method: TCDirect Run Start Time: 1/8/2020 6:15:14 PM
 Method Type: TC_DIRECT Run End Time: 1/8/2020 10:40:22 P
 Table: OA08052 Device ID: TOC6
 Analyst: Administrator Run Name: SN10020200108A1

Cup Position	Sample ID	Weight (mg)	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A98	prime	200	32.359	0.006	2505.73	1/8/2020 6:15:28 PM
A1	blank	200	8.545	0.002	0	1/8/2020 6:26:29 PM
A11	blank	200	8.545	0.002	0	1/8/2020 6:37:23 PM
A1	OA08052-CAL1	200	8.545	0.002	0	1/8/2020 6:48:17 PM
A2	OA08052-CAL2	40	1132.086	0.045/0.0002 = 225	22924.35	1/8/2020 6:59:11 PM
A3	OA08052-CAL3	100	1063.227	0.106 = 590	55036.88	1/8/2020 7:09:58 PM
A4	OA08052-CAL4	200	1039.388	0.208 = 1040	108464.545	1/8/2020 7:20:45 PM
A5	OA08052-CAL5	50	10075.077	0.504 = 2520	264124.015	1/8/2020 7:31:32 PM
A6	OA08052-CAL6	100	9827.481	0.983 = 4915	516121.2	1/8/2020 7:42:18 PM
A7	OA08052-CAL7	250	9761.05	2.44 = 12200	1282914.36	1/8/2020 7:53:05 PM
A8	OA08052-CAL8	500	10150.088	5.075 = 25375	2669063.5	1/8/2020 8:03:52 PM
A9	OA08052-CAL9	1000	9978.708	9.979 = 49895	5248863.92	1/8/2020 8:14:39 PM
A97	OA08052-IBL1	200	175.463	0.035	17562.96	1/8/2020 8:25:25 PM
A10	OA08052-ICV1	200	10013.587✓	2.003✓	1052723.4	1/8/2020 8:36:26 PM
A11	OA08052-ICB1	200	64.139✓	0.013✓	5849.56	1/8/2020 8:47:20 PM
A2	clean2	200	8.545	0.002	0	1/8/2020 8:58:06 PM
A3	clean3	200	8.545	0.002	0	1/8/2020 9:09:00 PM
A4	clean4	200	8.545	0.002	0	1/8/2020 9:19:46 PM
A5	clean5	200	8.545	0.002	0	1/8/2020 9:30:33 PM
A6	clean6	200	8.545	0.002	0	1/8/2020 9:41:20 PM
A7	clean7	200	8.545	0.002	0	1/8/2020 9:52:06 PM
A8	clean8	200	8.545	0.002	0	1/8/2020 10:02:53 PM
A9	clean9	200	49.259	0.01	4283.87	1/8/2020 10:13:40 PM
A10	clean10	200	8.545	0.002	0	1/8/2020 10:24:26 PM

Handwritten notes in the table:
 = 225
 = 590
 = 1040
 = 2520
 = 4915
 = 12200
 = 25375
 = 49895
 1/9/2020





**Total Solids by SM2540G
Benchsheet Data**

Batch 0020362 (A0B0288-01)



Apex Laboratories
PREPARATION BENCH SHEET

Percent Solids + Dry Weight Worksheet

BATCH #: 0020362 (Matrix: Sediment)

Lab Number	Analysis	QC Source ID	Prepared (Time In)	Weighed (Time Out)	Tare Wt. (g)	Wet Weight (+Tare) (g)	Dry Weight (+Tare) (g)	% Solids (Calc)	LogComments
A0B0288-01	Dry Weight		02/12/20 10:33		1.26	26.52	15.9	58.0	Use Results from TS.. Make NR once completed.
A0B0288-01	Solids, Total (SM 254		02/12/20 10:33		1.26	26.52	15.9	58.0	Use Results for Dry Weight (Not for Waters)
020362-DUP1	QC	A0B0288-01	02/12/20 10:33		1.27	28.99	17.31	57.9	

NRP
Prepared By: _____
2/13/20
Date

James S. Johnson
Reviewed By: _____
02/14/20
Date

Batch #: 0020362

Total Solids Worksheet

Date: 2/12/2020

Analyst: nrp

Method: SM 2540 G

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g)			Comments
				1 st weighing	2nd Weighing	3rd Weighing	
A0B0288-01	1.260	288-01	26.520	15.900	15.900		
0020362-DUP1	1.270	288-01Dup	28.990	17.320	17.310		source: A0B0288-01
Date/time first in oven: 2/13/20@11:05		Oven temp. (°C; in/out): 97.7/103.1		101.2/104.7	/		
		Time of weighing: 2/13@16:22		2/13@18:25			

Balance Checksheets

Extractions February 2020
Wet Chem February 2020

Balance Challenge Log

Extractions

AND FX-2000
ID# 5210177

Weight ID	weight (g)	acceptance range (g)	
	=/<1g	± 0.02g	
	>1g	± 2%	
10077	0.5g	0.48	0.52
1000143395	300g	294.00	306.00

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Alternate Weight/ID used:

Date Range:

Month: February
Year: 2020

Day/Time	Initials
1	
2	
3 0722	AJJ
4 0723	AJJ
5 0739	CAH
6 0725	CAH
7 0731	CAH
8	
9	
10 07120	JAG
11 07:15	CAH
12 07:25	JAG
13 11:35	CAH
14 07:23	JAG
15	
16	
17 7:17	CAH
18 ^{MS} 07:22 1040	AJJ
19 09:25	JAG
20 0831	AJJ
21 0914	AJJ
22	
23	
24 07:05	JAG
25 07:40	JAG
26 07:15	JAG
27 07:30	CAH
28 07:20	JAG
29	
30	
31	

Weight One	Observed
	0.50
	0.49
	0.50
	0.49
	0.50
	.51
	.50
	.51
	.50
	.51
0.50g	
	0.50
	0.50
	.50
	0.50
	0.49
	.50
	.49
	.50
	0.51
	.51

Weight Two	Observed
	299.97
	299.99
	299.98
	299.99
	299.98
	299.98
	299.99
	299.99
	299.99
	299.97
	299.97
	299.98
	299.97
	299.98
	299.99
	299.99

Balance Challenge Log

Wet Chem Balance 1
 Ohaus Adventurer Pro
 ID# 8C30461093

Weight ID	weight (g)	acceptance range (g)	
	<0.5000g	± 0.5mg	
	>=0.5000g	± 0.1%	
1000015949	0.005g	0.0045	0.0055
66067	0.100g	0.0995	0.1005
66067	100g	99.9000	100.1000

If other than as listed above, the weight and tracking ID of the mass used to challenge the balance must be recorded.

Month: February
 Year: 2020

Alternate Weight/ID used: _____ Date Range: _____

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2							
3	10:10 MAS		99.9999	MAS 2-4-20 0.0998	0.9998		0.0050
4	10:40 MAS		99.9997		0.0999		0.0050
5	10:25 MAS		99.9997		0.0998		0.0050
6	10:15 MAS		99.9999		0.0999		0.0050
7	13:13 MAS		100.0002		0.1000		0.0048
8							
9							
10	11:42 MAS		99.9998		0.1000		0.0050
11	13:39 MAS		99.9997		0.0997		0.0051
12	11:36 MAS		99.9993		0.0999		0.0051
13	I						
14	10:36 MAS		99.9996		0.1002		0.0050
15							
16		100.0000g		0.1000g		.0050g	
17	10:16 MAS		99.9993		0.1000		0.0051
18	9:56 AMB		99.9990		0.0999		0.0049
19	8:07 AMB		99.9989		0.1001		0.0051
20	11:50 MAS		99.9985		0.0998		0.0053
21	11:13 MAS		99.9982		0.0998		0.0049
22							
23							
24	10:40 MAS		99.9981		0.0999		0.0050
25	10:40 MAS		99.9981		0.1000		0.0050
26	10:32 MAS		99.9981		0.1000		0.0050
27	10:50 MAS		99.9982		0.1000		0.0047
28	12:30 MAS		99.9985		0.0999		0.0048
29							
30							
31							