



**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 #:  
A9I0890**

***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**  
**A9I0890**  
(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 9120609  
Sequence 9L16015 (A9I0890-17,18)

Batch 9121399  
Sequence 0A02025 (A9I0890-03RE1,04RE1)

**Calibration Data**  
Sequence 9L03052 (Cal ID A9L0407) DUALECD2F

**Organochloride Pesticides by EPA 8081B**  
**Benchsheet & Analysis Sequence Data**  
Batch 9120511  
Sequence 9L09034 (A9I0890-04RE1)  
Sequence 9L10037 (A9I0890-03RE1)

Batch 9120780  
Sequence 9L13033 (A9I0890-17RE1,18RE1)  
Sequence 9L12029 (QC Only)

**Calibration Data**  
Sequence 9H23034 (Cal ID A9H2608) DualECD5

**Semivolatile Organic Compounds (PAHs) by EPA 8270D**  
**Benchsheet & Analysis Sequence Data**  
Batch 9111215  
Sequence 9K26030 (A9I0890-03,04)

Batch 9120480  
Sequence 9L04042 (A9I0890-17,18)



**Table of Contents**  
**A9I0890**  
(page 2 of 2)

**Calibration Data**

Sequence 9I06028 (Cal ID A9I1001) SV-GCMS14

**Conventional Chemistry Parameters**

**Benchsheet & Analysis Sequence Data**

**Total Organic Carbon- Soil (5310 B)**

Batch 9111270

Sequence 9L03043 (A9I0890-03,04)

Batch 9120591

Sequence 9L12028 (A9I0890-17,18)

**Calibration Data**

Sequence 8B02022 (Cal ID A8B0203) TOC

Sequence 9K22043 (Cal ID A9K2205) TOC6

**Total Solids by SM2540/PSEP**

**Benchsheet Data**

Batch 9111229 (A9I0890-03,04)

Batch 9120500 (A9I0890-17,18)

**Balance Checksheets**

Extractions November 2019

Extractions December 2019

Wet Chem November 2019

Wet Chem December 2019

## **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: A9I0890

Date: 01/29/2020

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



Thursday, January 9, 2020

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

RE: A910890 - 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 A910890, which was received by the laboratory on 9/27/2019 at 10:25:00AM.

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](mailto: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.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	2.1 degC	Cooler #2	1.4 degC
Cooler #3	1.1 degC	Cooler #4	1.0 degC

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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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**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:**

**A9I0890 - 01 09 20 1416**

**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PDI-013SC-A-02-03-190925	A9I0890-03	Sediment	09/25/19 13:51	09/27/19 10:25
PDI-013SC-A-03-04-190925	A9I0890-04	Sediment	09/25/19 13:51	09/27/19 10:25
PDI-018SC-A-06-07-190926	A9I0890-17	Sediment	09/26/19 08:54	09/27/19 10:25
PDI-018SC-A-07-08-190926	A9I0890-18	Sediment	09/26/19 08:54	09/27/19 10:25

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Darwin Thomas, Business Development Director



<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: Ryan Barth	<b>Report ID:</b> A910890 - 01 09 20 1416
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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
<b>PDI-013SC-A-02-03-190925 (A910890-03RE1)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9121399</b>		<b>C-07, R-04</b>	
Aroclor 1016	ND	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
Aroclor 1221	ND	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
Aroclor 1232	ND	4.51	4.51	ug/kg dry	1	01/02/20 14:19	EPA 8082A	R-02
Aroclor 1242	ND	3.75	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
Aroclor 1248	ND	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
Aroclor 1254	ND	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
<b>Aroclor 1260</b>	<b>4.68</b>	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
Aroclor 1262	ND	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
Aroclor 1268	ND	1.89	3.75	ug/kg dry	1	01/02/20 14:19	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 52 %</i>		<i>Limits: 43-120 %</i>		<i>1</i>	<i>01/02/20 14:19</i>	<i>EPA 8082A</i>
<b>PDI-013SC-A-03-04-190925 (A910890-04RE1)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9121399</b>		<b>C-07</b>	
Aroclor 1016	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1221	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1232	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1242	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1248	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1254	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1260	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1262	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
Aroclor 1268	ND	0.841	1.67	ug/kg dry	1	01/02/20 14:54	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 69 %</i>		<i>Limits: 43-120 %</i>		<i>1</i>	<i>01/02/20 14:54</i>	<i>EPA 8082A</i>
<b>PDI-018SC-A-06-07-190926 (A910890-17)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120609</b>		<b>C-07</b>	
Aroclor 1016	ND	1.23	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42
Aroclor 1221	ND	2.43	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42
Aroclor 1232	ND	5.67	5.67	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42, R-02
Aroclor 1242	ND	2.43	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42
Aroclor 1248	ND	3.29	3.29	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42, R-02
Aroclor 1254	ND	1.23	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42
<b>Aroclor 1260</b>	<b>28.4</b>	1.23	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	<b>Q-42</b>
Aroclor 1262	ND	1.23	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42
Aroclor 1268	ND	1.23	2.43	ug/kg dry	1	12/16/19 09:26	EPA 8082A	Q-42

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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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
<b>PDI-018SC-A-06-07-190926 (A910890-17)</b>				<b>Matrix: Sediment</b>		<b>Batch: 9120609</b>		<b>C-07</b>
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 60 %</i>		<i>Limits: 43-120 %</i>		<i>1</i>	<i>12/16/19 09:26</i>	<i>EPA 8082A</i>
<b>PDI-018SC-A-07-08-190926 (A910890-18)</b>				<b>Matrix: Sediment</b>		<b>Batch: 9120609</b>		<b>C-07</b>
Aroclor 1016	ND	0.847	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
Aroclor 1221	ND	0.847	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
Aroclor 1232	ND	2.40	2.40	ug/kg dry	1	12/16/19 11:12	EPA 8082A	R-02
Aroclor 1242	ND	1.68	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
Aroclor 1248	ND	1.68	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
Aroclor 1254	ND	0.847	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
<b>Aroclor 1260</b>	<b>23.3</b>	0.847	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
Aroclor 1262	ND	0.847	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
Aroclor 1268	ND	0.847	1.68	ug/kg dry	1	12/16/19 11:12	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 43-120 %</i>		<i>1</i>	<i>12/16/19 11:12</i>	<i>EPA 8082A</i>

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> <b>A910890 - 01 09 20 1416</b>
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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
<b>PDI-013SC-A-02-03-190925 (A910890-03RE1)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120511</b>		<b>C-05, H-08</b>	
2,4'-DDD	ND	13.5	13.5	ug/kg dry	5	12/10/19 13:16	EPA 8081B	R-02
2,4'-DDE	ND	19.2	19.2	ug/kg dry	5	12/10/19 13:16	EPA 8081B	R-02
2,4'-DDT	ND	16.9	16.9	ug/kg dry	5	12/10/19 13:16	EPA 8081B	R-02
<b>4,4'-DDD</b>	<b>35.7</b>	5.65	11.3	ug/kg dry	5	12/10/19 13:16	EPA 8081B	
4,4'-DDE	ND	16.4	16.4	ug/kg dry	5	12/10/19 13:16	EPA 8081B	R-02
4,4'-DDT	ND	55.9	55.9	ug/kg dry	5	12/10/19 13:16	EPA 8081B	R-02
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 42-129 %</i>		<i>5</i>	<i>12/10/19 13:16</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>114 %</i>		<i>55-130 %</i>		<i>5</i>	<i>12/10/19 13:16</i>	<i>EPA 8081B</i>

<b>PDI-013SC-A-03-04-190925 (A910890-04RE1)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120511</b>		<b>C-05, H-08, R-04</b>	
2,4'-DDD	ND	2.38	4.76	ug/kg dry	2	12/09/19 19:39	EPA 8081B	
2,4'-DDE	ND	2.38	4.76	ug/kg dry	2	12/09/19 19:39	EPA 8081B	
2,4'-DDT	ND	2.38	4.76	ug/kg dry	2	12/09/19 19:39	EPA 8081B	
4,4'-DDD	ND	2.38	4.76	ug/kg dry	2	12/09/19 19:39	EPA 8081B	
4,4'-DDE	ND	2.38	4.76	ug/kg dry	2	12/09/19 19:39	EPA 8081B	
4,4'-DDT	ND	7.13	7.13	ug/kg dry	2	12/09/19 19:39	EPA 8081B	R-02
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 42-129 %</i>		<i>2</i>	<i>12/09/19 19:39</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>113 %</i>		<i>55-130 %</i>		<i>2</i>	<i>12/09/19 19:39</i>	<i>EPA 8081B</i>

<b>PDI-018SC-A-06-07-190926 (A910890-17RE1)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120780</b>		<b>R-04, C-05, H-08</b>	
2,4'-DDD	ND	18.2	18.2	ug/kg dry	5	12/13/19 13:04	EPA 8081B	
2,4'-DDE	ND	18.2	18.2	ug/kg dry	5	12/13/19 13:04	EPA 8081B	
2,4'-DDT	ND	27.3	27.3	ug/kg dry	5	12/13/19 13:04	EPA 8081B	R-02
4,4'-DDD	ND	9.09	18.2	ug/kg dry	5	12/13/19 13:04	EPA 8081B	
4,4'-DDE	ND	9.09	18.2	ug/kg dry	5	12/13/19 13:04	EPA 8081B	
4,4'-DDT	ND	25.5	25.5	ug/kg dry	5	12/13/19 13:04	EPA 8081B	R-02
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 42-129 %</i>		<i>5</i>	<i>12/13/19 13:04</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>130 %</i>		<i>55-130 %</i>		<i>5</i>	<i>12/13/19 13:04</i>	<i>EPA 8081B</i>

<b>PDI-018SC-A-07-08-190926 (A910890-18RE1)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120780</b>		<b>C-05, H-08, R-04</b>	
2,4'-DDD	ND	14.6	14.6	ug/kg dry	2	12/13/19 14:57	EPA 8081B	R-02
2,4'-DDE	ND	6.21	6.21	ug/kg dry	2	12/13/19 14:57	EPA 8081B	R-02
2,4'-DDT	ND	12.9	12.9	ug/kg dry	2	12/13/19 14:57	EPA 8081B	R-02
4,4'-DDD	ND	8.12	8.12	ug/kg dry	2	12/13/19 14:57	EPA 8081B	R-02

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Darwin Thomas, Business Development Director



**Apex Laboratories, LLC**

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

<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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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
<b>PDI-018SC-A-07-08-190926 (A910890-18RE1)</b>				<b>Matrix: Sediment</b>		<b>Batch: 9120780</b>	<b>C-05, H-08, R-04</b>	
4,4'-DDE	ND	6.69	6.69	ug/kg dry	2	12/13/19 14:57	EPA 8081B	R-02
4,4'-DDT	ND	15.3	15.3	ug/kg dry	2	12/13/19 14:57	EPA 8081B	R-02
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 113 %</i>		<i>Limits: 42-129 %</i>		<i>12/13/19 14:57</i>	<i>EPA 8081B</i>	
<i>Decachlorobiphenyl (Surr)</i>		<i>107 %</i>		<i>55-130 %</i>		<i>12/13/19 14:57</i>	<i>EPA 8081B</i>	

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> <b>A9I0890 - 01 09 20 1416</b>
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**ANALYTICAL SAMPLE RESULTS**

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>PDI-013SC-A-02-03-190925 (A9I0890-03)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9111215</b>		<b>H-08</b>		
Acenaphthene	220000	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Acenaphthylene	23100	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D	J	
Anthracene	102000	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Benz(a)anthracene	76700	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Benzo(a)pyrene	104000	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Benzo(b)fluoranthene	86700	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Benzo(k)fluoranthene	29100	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D	M-05	
Benzo(g,h,i)perylene	79900	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Chrysene	94300	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Dibenz(a,h)anthracene	ND	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Fluoranthene	307000	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Fluorene	94600	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Indeno(1,2,3-cd)pyrene	68500	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
2-Methylnaphthalene	20500	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D	J	
Naphthalene	ND	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Phenanthrene	545000	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
Pyrene	325000	13900	27900	ug/kg dry	10000	11/26/19 17:24	EPA 8270D		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-115 %</i>		<i>10000</i>	<i>11/26/19 17:24</i>	<i>EPA 8270D</i>	<i>S-01</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>%</i>		<i>54-127 %</i>		<i>10000</i>	<i>11/26/19 17:24</i>	<i>EPA 8270D</i>	<i>S-01</i>

<b>PDI-013SC-A-03-04-190925 (A9I0890-04)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9111215</b>		<b>H-08</b>	
Acenaphthene	8740	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Acenaphthylene	2300	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	J
Anthracene	ND	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Benz(a)anthracene	7550	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Benzo(a)pyrene	11000	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Benzo(b)fluoranthene	9230	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Benzo(k)fluoranthene	3350	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	M-05
Benzo(g,h,i)perylene	8800	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Chrysene	8590	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Dibenz(a,h)anthracene	ND	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Fluoranthene	16700	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	
Fluorene	ND	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	

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**ANALYTICAL SAMPLE RESULTS**

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>PDI-013SC-A-03-04-190925 (A9I0890-04)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9111215</b>		<b>H-08</b>		
Indeno(1,2,3-cd)pyrene	7420	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D		
2-Methylnaphthalene	ND	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D		
Naphthalene	ND	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D		
Phenanthrene	2550	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D	J	
Pyrene	36100	1520	3040	ug/kg dry	1000	11/26/19 17:56	EPA 8270D		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 44-115 %</i>		<i>1000</i>	<i>11/26/19 17:56</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>122 %</i>		<i>54-127 %</i>		<i>1000</i>	<i>11/26/19 17:56</i>	<i>EPA 8270D</i>	<i>S-05</i>

<b>PDI-018SC-A-06-07-190926 (A9I0890-17)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120480</b>		<b>H-08</b>		
Acenaphthene	51300	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Acenaphthylene	8710	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Anthracene	45600	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Benz(a)anthracene	44600	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Benzo(a)pyrene	67300	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Benzo(b)fluoranthene	58600	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Benzo(k)fluoranthene	19600	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D	M-05	
Benzo(g,h,i)perylene	53200	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Chrysene	58000	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Dibenz(a,h)anthracene	5540	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Fluoranthene	180000	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Fluorene	31500	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Indeno(1,2,3-cd)pyrene	45100	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
2-Methylnaphthalene	46900	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Naphthalene	23600	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Phenanthrene	243000	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
Pyrene	215000	2230	4470	ug/kg dry	1000	12/04/19 16:26	EPA 8270D		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 44-115 %</i>		<i>1000</i>	<i>12/04/19 16:26</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>196 %</i>		<i>54-127 %</i>		<i>1000</i>	<i>12/04/19 16:26</i>	<i>EPA 8270D</i>	<i>S-05</i>

<b>PDI-018SC-A-07-08-190926 (A9I0890-18)</b>			<b>Matrix: Sediment</b>		<b>Batch: 9120480</b>		<b>H-08</b>	
Acenaphthene	12200	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D	
Acenaphthylene	1800	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D	J
Anthracene	7980	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D	

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**ANALYTICAL SAMPLE RESULTS**

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
<b>PDI-018SC-A-07-08-190926 (A910890-18)</b>				<b>Matrix: Sediment</b>		<b>Batch: 9120480</b>		<b>H-08</b>	
<b>Benz(a)anthracene</b>	<b>10400</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Benzo(a)pyrene</b>	<b>14500</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Benzo(b)fluoranthene</b>	<b>12800</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Benzo(k)fluoranthene</b>	<b>4430</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D	<b>M-05</b>	
<b>Benzo(g,h,i)perylene</b>	<b>11400</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Chrysene</b>	<b>13600</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
Dibenz(a,h)anthracene	ND	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Fluoranthene</b>	<b>41000</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Fluorene</b>	<b>6740</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Indeno(1,2,3-cd)pyrene</b>	<b>9890</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>2-Methylnaphthalene</b>	<b>5990</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Naphthalene</b>	<b>3740</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Phenanthrene</b>	<b>45900</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<b>Pyrene</b>	<b>52300</b>	1580	3150	ug/kg dry	1000	12/04/19 18:03	EPA 8270D		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 44-115 %</i>		<i>1000</i>	<i>12/04/19 18:03</i>	<i>EPA 8270D</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>182 %</i>		<i>54-127 %</i>		<i>1000</i>	<i>12/04/19 18:03</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
<b>PDI-013SC-A-02-03-190925 (A910890-03)</b>				<b>Matrix: Sediment</b>				
Batch: 9111270								
<b>Total Organic Carbon</b>	<b>1.2</b>	---	0.020	% by Weight	1	12/03/19 18:33	SM 5310 B MOD	<b>H-08</b>
<b>PDI-013SC-A-03-04-190925 (A910890-04)</b>				<b>Matrix: Sediment</b>				
Batch: 9111270								
<b>Total Organic Carbon</b>	<b>0.39</b>	---	0.020	% by Weight	1	12/03/19 18:55	SM 5310 B MOD	<b>H-08</b>
<b>PDI-018SC-A-06-07-190926 (A910890-17)</b>				<b>Matrix: Sediment</b>				
Batch: 9120591								
<b>Total Organic Carbon</b>	<b>5.6</b>	---	0.020	% by Weight	1	12/12/19 11:41	SM 5310 B MOD	<b>H-08</b>
<b>PDI-018SC-A-07-08-190926 (A910890-18)</b>				<b>Matrix: Sediment</b>				
Batch: 9120591								
<b>Total Organic Carbon</b>	<b>0.86</b>	---	0.020	% by Weight	1	12/12/19 13:00	SM 5310 B MOD	<b>A-01, H-08</b>

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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
<b>PDI-013SC-A-02-03-190925 (A910890-03)</b>				<b>Matrix: Sediment</b>				
Batch: 9111229								
<b>Total Solids</b>	<b>87.3</b>	1.00	1.00	% by Weight	1	11/27/19 18:30	SM 2540 G	
<b>PDI-013SC-A-03-04-190925 (A910890-04)</b>				<b>Matrix: Sediment</b>				
Batch: 9111229								
<b>Total Solids</b>	<b>79.4</b>	1.00	1.00	% by Weight	1	11/27/19 18:30	SM 2540 G	
<b>PDI-018SC-A-06-07-190926 (A910890-17)</b>				<b>Matrix: Sediment</b>				
Batch: 9120500								
<b>Total Solids</b>	<b>53.9</b>	1.00	1.00	% by Weight	1	12/09/19 17:08	SM 2540 G	
<b>PDI-018SC-A-07-08-190926 (A910890-18)</b>				<b>Matrix: Sediment</b>				
Batch: 9120500								
<b>Total Solids</b>	<b>78.0</b>	1.00	1.00	% by Weight	1	12/09/19 17:08	SM 2540 G	

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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
<b>Batch 9120382 - EPA 3546</b>												
<b>Sediment</b>												
<b>Blank (9120382-BLK1)</b> Prepared: 12/02/19 10:09 Analyzed: 12/09/19 09:03 <span style="float: right;">C-07</span>												
<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	---	---	---	---	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 43-120 %</i>		<i>Dilution: 1x</i>						
<b>LCS (9120382-BS1)</b> Prepared: 12/02/19 10:09 Analyzed: 12/09/19 09:21 <span style="float: right;">C-07</span>												
<u>EPA 8082A</u>												
Aroclor 1016	43.5	0.670	1.33	ug/kg wet	1	83.3	---	52	47-134%	---	---	
Aroclor 1260	63.3	0.670	1.33	ug/kg wet	1	83.3	---	76	53-140%	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 43-120 %</i>		<i>Dilution: 1x</i>						
<b>Matrix Spike (9120382-MS2)</b> Prepared: 12/02/19 10:09 Analyzed: 12/12/19 09:19 <span style="float: right;">C-07</span>												
<u>QC Source Sample: Non-SDG (A9J0360-01)</u>												
<u>EPA 8082A</u>												
Aroclor 1016	54.4	1.19	2.37	ug/kg dry	1	148	ND	37	47-134%	---	---	Q-01
Aroclor 1260	45.9	1.19	2.37	ug/kg dry	1	148	ND	31	53-140%	---	---	Q-01
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 29 %</i>		<i>Limits: 43-120 %</i>		<i>Dilution: 1x</i>						S-03
<b>Matrix Spike Dup (9120382-MSD2)</b> Prepared: 12/02/19 10:09 Analyzed: 12/12/19 09:54 <span style="float: right;">C-07</span>												
<u>QC Source Sample: Non-SDG (A9J0360-01)</u>												
Aroclor 1016	45.8	1.20	2.37	ug/kg dry	1	149	ND	31	47-134%	17	30%	Q-01
Aroclor 1260	36.0	1.20	2.37	ug/kg dry	1	149	ND	24	53-140%	24	30%	Q-01
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 25 %</i>		<i>Limits: 43-120 %</i>		<i>Dilution: 1x</i>						S-03
<b>Batch 9120609 - EPA 3546</b>												
<b>Soil</b>												

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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
<b>Batch 9120609 - EPA 3546</b>												
<b>Soil</b>												
<b>Blank (9120609-BLK1)</b> Prepared: 12/06/19 10:18 Analyzed: 12/16/19 08:51 <span style="float: right;">C-07</span>												
<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	---	---	---	---	---	---	
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 99 % Limits: 43-120 % Dilution: 1x</i>												
<b>LCS (9120609-BS1)</b> Prepared: 12/06/19 10:18 Analyzed: 12/16/19 09:08 <span style="float: right;">C-07</span>												
<u>EPA 8082A</u>												
Aroclor 1016	55.4	0.670	1.33	ug/kg wet	1	83.3	---	66	47-134%	---	---	
Aroclor 1260	71.2	0.670	1.33	ug/kg wet	1	83.3	---	85	53-140%	---	---	
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 105 % Limits: 43-120 % Dilution: 1x</i>												
<b>Matrix Spike (9120609-MS1)</b> Prepared: 12/06/19 10:18 Analyzed: 12/16/19 10:01 <span style="float: right;">C-07</span>												
<u>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17)</u>												
<u>EPA 8082A</u>												
Aroclor 1016	68.7	1.22	2.42	ug/kg dry	1	152	ND	45	47-134%	---	---	Q-01
Aroclor 1260	94.9	1.22	2.42	ug/kg dry	1	152	28.4	44	53-140%	---	---	Q-01
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 62 % Limits: 43-120 % Dilution: 1x</i>												
<b>Matrix Spike Dup (9120609-MSD1)</b> Prepared: 12/06/19 10:18 Analyzed: 12/16/19 10:36 <span style="float: right;">C-07</span>												
<u>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17)</u>												
<u>EPA 8082A</u>												
Aroclor 1016	59.1	1.22	2.43	ug/kg dry	1	152	ND	39	47-134%	15	30%	Q-01
Aroclor 1260	84.9	1.22	2.43	ug/kg dry	1	152	28.4	37	53-140%	11	30%	Q-01
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 55 % Limits: 43-120 % Dilution: 1x</i>												

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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
<b>Batch 9121399 - EPA 3546</b>												
<b>Sediment</b>												
<b>Blank (9121399-BLK1)</b>												
Prepared: 12/30/19 09:02 Analyzed: 01/02/20 13:26 <span style="float: right;">C-07</span>												
<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	---	---	---	---	---	---	
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 100 % Limits: 43-120 % Dilution: 1x</i>												
<b>LCS (9121399-BS1)</b>												
Prepared: 12/30/19 09:02 Analyzed: 01/02/20 13:44 <span style="float: right;">C-07</span>												
<u>EPA 8082A</u>												
Aroclor 1016	60.1	0.670	1.33	ug/kg wet	1	83.3	---	72	47-134%	---	---	
Aroclor 1260	79.1	0.670	1.33	ug/kg wet	1	83.3	---	95	53-140%	---	---	
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 100 % Limits: 43-120 % Dilution: 1x</i>												
<b>LCS Dup (9121399-BSD1)</b>												
Prepared: 12/30/19 09:02 Analyzed: 01/02/20 14:01 <span style="float: right;">C-07, Q-19</span>												
<u>EPA 8082A</u>												
Aroclor 1016	58.1	0.670	1.33	ug/kg wet	1	83.3	---	70	47-134%	3	30%	
Aroclor 1260	77.2	0.670	1.33	ug/kg wet	1	83.3	---	93	53-140%	2	30%	
<i>Surr: Decachlorobiphenyl (Surr) Recovery: 102 % Limits: 43-120 % 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
<b>Batch 9120511 - EPA 3546/3640A (GPC) Soil</b>												
<b>Blank (9120511-BLK1)</b> Prepared: 11/26/19 11:20 Analyzed: 12/09/19 13:24 <b>C-05</b>												
<u>EPA 8081B</u>												
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: 63 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		91 %		55-130 %		"						
<b>LCS (9120511-BS1)</b> Prepared: 11/26/19 11:20 Analyzed: 12/09/19 13:41 <b>C-05</b>												
<u>EPA 8081B</u>												
2,4'-DDD	44.1	1.00	2.00	ug/kg wet	1	50.0	---	88	75-130%	---	---	
2,4'-DDE	38.2	1.00	2.00	ug/kg wet	1	50.0	---	76	74-131%	---	---	
2,4'-DDT	48.8	1.00	2.00	ug/kg wet	1	50.0	---	98	64-136%	---	---	
4,4'-DDD	47.6	1.00	2.00	ug/kg wet	1	50.0	---	95	56-139%	---	---	
4,4'-DDE	43.6	1.00	2.00	ug/kg wet	1	50.0	---	87	56-134%	---	---	
4,4'-DDT	59.9	1.00	2.00	ug/kg wet	1	50.0	---	120	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 57 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		94 %		55-130 %		"						
<b>Matrix Spike (9120511-MS1)</b> Prepared: 11/26/19 11:20 Analyzed: 12/10/19 15:48 <b>C-05, H-08</b>												
<u>QC Source Sample: Non-SDG (A9J0360-01RE1)</u>												
<u>EPA 8081B</u>												
2,4'-DDD	104	18.2	18.2	ug/kg dry	5	91.1	ND	114	50-150%	---	---	
2,4'-DDE	116	18.2	18.2	ug/kg dry	5	91.1	ND	128	50-150%	---	---	
2,4'-DDT	99.4	18.2	18.2	ug/kg dry	5	91.1	ND	109	50-150%	---	---	
4,4'-DDD	134	9.11	18.2	ug/kg dry	5	91.1	37.8	106	50-150%	---	---	
4,4'-DDE	119	18.2	18.2	ug/kg dry	5	91.1	ND	131	50-150%	---	---	
4,4'-DDT	129	25.5	25.5	ug/kg dry	5	91.1	ND	142	50-150%	---	---	R-02
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 116 %		Limits: 42-129 %		Dilution: 5x						
Decachlorobiphenyl (Surr)		112 %		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	
<b>Batch 9120511 - EPA 3546/3640A (GPC)</b>						<b>Soil</b>							
<b>Matrix Spike Dup (9120511-MSD1)</b>						Prepared: 11/26/19 11:20 Analyzed: 12/10/19 16:25						C-05, H-08	
<b>QC Source Sample: Non-SDG (A9J0360-01RE1)</b>													
2,4'-DDD	90.2	18.2	18.2	ug/kg dry	5	91.1	ND	99	50-150%	14	200%		
2,4'-DDE	109	18.2	18.2	ug/kg dry	5	91.1	ND	120	50-150%	6	200%		
2,4'-DDT	92.4	18.2	18.2	ug/kg dry	5	91.1	ND	101	50-150%	7	200%		
4,4'-DDD	117	9.11	18.2	ug/kg dry	5	91.1	37.8	87	50-150%	14	30%		
4,4'-DDE	89.7	18.2	18.2	ug/kg dry	5	91.1	ND	98	50-150%	28	30%		
4,4'-DDT	106	25.5	25.5	ug/kg dry	5	91.1	ND	117	50-150%	19	30%	R-02	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 5x</i>							
<i>Decachlorobiphenyl (Surr)</i>		<i>79 %</i>		<i>55-130 %</i>		<i>"</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
<b>Batch 9120780 - EPA 3546/3640A (GPC)</b>						<b>Sediment</b>						
<b>Blank (9120780-BLK1)</b>						Prepared: 12/05/19 08:35 Analyzed: 12/12/19 18:32						<b>C-05</b>
<b>EPA 8081B</b>												
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	---	---	---	---	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 61 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>105 %</i>		<i>55-130 %</i>		<i>"</i>						
<b>LCS (9120780-BS1)</b>						Prepared: 12/05/19 08:35 Analyzed: 12/12/19 18:50						<b>C-05</b>
<b>EPA 8081B</b>												
2,4'-DDD	46.8	1.00	2.00	ug/kg wet	1	50.0	---	94	50-150%	---	---	
2,4'-DDE	43.7	1.00	2.00	ug/kg wet	1	50.0	---	87	50-150%	---	---	
2,4'-DDT	51.4	1.00	2.00	ug/kg wet	1	50.0	---	103	50-150%	---	---	
4,4'-DDD	49.3	1.00	2.00	ug/kg wet	1	50.0	---	99	50-150%	---	---	
4,4'-DDE	48.4	1.00	2.00	ug/kg wet	1	50.0	---	97	50-150%	---	---	
4,4'-DDT	59.9	1.00	2.00	ug/kg wet	1	50.0	---	120	50-150%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>113 %</i>		<i>55-130 %</i>		<i>"</i>						
<b>Matrix Spike (9120780-MS1)</b>						Prepared: 12/05/19 08:35 Analyzed: 12/13/19 13:41						<b>C-05, H-08, R-04</b>
<b>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17RE1)</b>												
<b>EPA 8081B</b>												
2,4'-DDD	88.7	18.1	18.1	ug/kg dry	5	90.5	ND	98	50-150%	---	---	
2,4'-DDE	107	18.1	18.1	ug/kg dry	5	90.5	ND	118	50-150%	---	---	
2,4'-DDT	127	27.1	27.1	ug/kg dry	5	90.5	ND	141	50-150%	---	---	R-02
4,4'-DDD	91.2	9.05	18.1	ug/kg dry	5	90.5	ND	101	50-150%	---	---	
4,4'-DDE	107	9.05	18.1	ug/kg dry	5	90.5	ND	119	50-150%	---	---	
4,4'-DDT	129	25.3	25.3	ug/kg dry	5	90.5	ND	142	50-150%	---	---	R-02
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 114 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 5x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>138 %</i>		<i>55-130 %</i>		<i>"</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	
<b>Batch 9120780 - EPA 3546/3640A (GPC)</b>						<b>Sediment</b>							
<b>Matrix Spike Dup (9120780-MSD1)</b>						Prepared: 12/05/19 08:36 Analyzed: 12/13/19 14:19						C-05, H-08, R-04	
<b>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17RE1)</b>													
<b>EPA 8081B</b>													
2,4'-DDD	83.5	18.2	18.2	ug/kg dry	5	91.1	ND	92	50-150%	6	35%		
2,4'-DDE	105	18.2	18.2	ug/kg dry	5	91.1	ND	115	50-150%	2	35%		
2,4'-DDT	123	27.3	27.3	ug/kg dry	5	91.1	ND	135	50-150%	3	35%	R-02	
4,4'-DDD	88.2	9.11	18.2	ug/kg dry	5	91.1	ND	97	50-150%	3	30%		
4,4'-DDE	101	9.11	18.2	ug/kg dry	5	91.1	ND	111	50-150%	6	30%		
4,4'-DDT	118	25.5	25.5	ug/kg dry	5	91.1	ND	130	50-150%	8	30%	R-02	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 108 %		Limits: 42-129 %		Dilution: 5x							
Decachlorobiphenyl (Surr)		124 %		55-130 %		"							

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 9111215 - EPA 3546</b>												
<b>Sediment</b>												
<b>Blank (9111215-BLK1)</b>												
Prepared: 11/26/19 10:06 Analyzed: 11/26/19 14:42												
<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: 89 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>98 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>LCS (9111215-BS1)</b>												
Prepared: 11/26/19 10:06 Analyzed: 11/26/19 15:15												
<u>EPA 8270D</u>												
Acenaphthene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	85	40-122%	---	---	
Acenaphthylene	15.6	1.25	2.50	ug/kg wet	1	20.0	---	78	32-132%	---	---	
Anthracene	16.2	1.25	2.50	ug/kg wet	1	20.0	---	81	47-123%	---	---	
Benz(a)anthracene	17.3	1.25	2.50	ug/kg wet	1	20.0	---	87	49-126%	---	---	
Benzo(a)pyrene	18.4	1.25	2.50	ug/kg wet	1	20.0	---	92	45-129%	---	---	
Benzo(b)fluoranthene	18.2	1.25	2.50	ug/kg wet	1	20.0	---	91	45-132%	---	---	
Benzo(k)fluoranthene	18.4	1.25	2.50	ug/kg wet	1	20.0	---	92	47-132%	---	---	
Benzo(g,h,i)perylene	17.6	1.25	2.50	ug/kg wet	1	20.0	---	88	43-134%	---	---	
Chrysene	18.6	1.25	2.50	ug/kg wet	1	20.0	---	93	50-124%	---	---	
Dibenz(a,h)anthracene	17.0	1.25	2.50	ug/kg wet	1	20.0	---	85	45-134%	---	---	
Fluoranthene	19.4	1.25	2.50	ug/kg wet	1	20.0	---	97	50-127%	---	---	

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Darwin Thomas, Business Development Director



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**QUALITY CONTROL (QC) SAMPLE RESULTS**

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 9111215 - EPA 3546</b>												
<b>Sediment</b>												
<b>LCS (9111215-BS1)</b>												
Prepared: 11/26/19 10:06 Analyzed: 11/26/19 15:15												
Fluorene	15.5	1.25	2.50	ug/kg wet	1	20.0	---	77	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	17.3	1.25	2.50	ug/kg wet	1	20.0	---	87	45-133%	---	---	
2-Methylnaphthalene	14.0	1.25	2.50	ug/kg wet	1	20.0	---	70	38-122%	---	---	
Naphthalene	17.0	1.25	2.50	ug/kg wet	1	20.0	---	85	35-123%	---	---	
Phenanthrene	18.4	1.25	2.50	ug/kg wet	1	20.0	---	92	50-121%	---	---	
Pyrene	21.7	1.25	2.50	ug/kg wet	1	20.0	---	108	47-127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>Matrix Spike (9111215-MS1)</b>												
Prepared: 11/26/19 10:06 Analyzed: 11/26/19 16:19												
<b>H-08</b>												
<b>QC Source Sample: Non-SDG (A9J0360-01)</b>												
<b>EPA 8270D</b>												
Acenaphthene	24200	2170	4340	ug/kg dry	1000	34.7	42800	-53700	40-122%	---	---	Q-11
Acenaphthylene	3850	2170	4340	ug/kg dry	1000	34.7	5000	-3300	32-132%	---	---	Q-11, J
Anthracene	15700	2170	4340	ug/kg dry	1000	34.7	25900	-29200	47-123%	---	---	Q-11
Benz(a)anthracene	33000	2170	4340	ug/kg dry	1000	34.7	36000	-8550	49-126%	---	---	Q-11
Benzo(a)pyrene	43400	2170	4340	ug/kg dry	1000	34.7	46600	-9250	45-129%	---	---	Q-11
Benzo(b)fluoranthene	42500	2170	4340	ug/kg dry	1000	34.7	42700	-461	45-132%	---	---	Q-11
Benzo(k)fluoranthene	15300	2170	4340	ug/kg dry	1000	34.7	16200	-2560	47-132%	---	---	Q-11
Benzo(g,h,i)perylene	31600	2170	4340	ug/kg dry	1000	34.7	33800	-6360	43-134%	---	---	Q-11
Chrysene	40100	2170	4340	ug/kg dry	1000	34.7	47200	-20700	50-124%	---	---	Q-11
Dibenz(a,h)anthracene	4500	2170	4340	ug/kg dry	1000	34.7	5400	-2590	45-134%	---	---	Q-11
Fluoranthene	89200	2170	4340	ug/kg dry	1000	34.7	109000	-58200	50-127%	---	---	Q-11
Fluorene	13400	2170	4340	ug/kg dry	1000	34.7	23100	-27800	43-125%	---	---	Q-11
Indeno(1,2,3-cd)pyrene	28600	2170	4340	ug/kg dry	1000	34.7	29600	-2710	45-133%	---	---	Q-11
2-Methylnaphthalene	ND	2170	4340	ug/kg dry	1000	34.7	ND		38-122%	---	---	Q-11
Naphthalene	6530	2170	4340	ug/kg dry	1000	34.7	5560	2800	35-123%	---	---	Q-11
Phenanthrene	95300	2170	4340	ug/kg dry	1000	34.7	149000	-153000	50-121%	---	---	Q-11
Pyrene	100000	2170	4340	ug/kg dry	1000	34.7	134000	-96500	47-127%	---	---	Q-11
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 122 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1000x</i>		<i>S-05</i>				
<i>p-Terphenyl-d14 (Surr)</i>		<i>150 %</i>		<i>54-127 %</i>		<i>"</i>		<i>S-05</i>				

<b>Matrix Spike Dup (9111215-MSD1)</b>												
Prepared: 11/26/19 10:06 Analyzed: 11/26/19 16:52												
<b>H-08</b>												

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Darwin Thomas, Business Development Director





<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: Ryan Barth	<b>Report ID:</b> A910890 - 01 09 20 1416
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**QUALITY CONTROL (QC) SAMPLE RESULTS**

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
<b>Batch 9111215 - EPA 3546</b>													
<b>Sediment</b>													
<b>Matrix Spike Dup (9111215-MSD1)</b>													
Prepared: 11/26/19 10:06 Analyzed: 11/26/19 16:52													
<b>QC Source Sample: Non-SDG (A9J0360-01)</b>													
Acenaphthene	19100	2140	4280	ug/kg dry	1000	34.2	42800	-69500	40-122%	24	30%	Q-11	
Acenaphthylene	4290	2140	4280	ug/kg dry	1000	34.2	5000	-2050	32-132%	11	30%	Q-11	
Anthracene	13500	2140	4280	ug/kg dry	1000	34.2	25900	-36100	47-123%	15	30%	Q-11	
Benz(a)anthracene	27900	2140	4280	ug/kg dry	1000	34.2	36000	-23600	49-126%	17	30%	Q-11	
Benzo(a)pyrene	37500	2140	4280	ug/kg dry	1000	34.2	46600	-26600	45-129%	15	30%	Q-11	
Benzo(b)fluoranthene	36300	2140	4280	ug/kg dry	1000	34.2	42700	-18700	45-132%	16	30%	Q-11	
Benzo(k)fluoranthene	13000	2140	4280	ug/kg dry	1000	34.2	16200	-9430	47-132%	17	30%	Q-11	
Benzo(g,h,i)perylene	29800	2140	4280	ug/kg dry	1000	34.2	33800	-11800	43-134%	6	30%	Q-11	
Chrysene	34700	2140	4280	ug/kg dry	1000	34.2	47200	-36700	50-124%	14	30%	Q-11	
Dibenz(a,h)anthracene	3980	2140	4280	ug/kg dry	1000	34.2	5400	-4130	45-134%	12	30%	Q-11, J	
Fluoranthene	82200	2140	4280	ug/kg dry	1000	34.2	109000	-79400	50-127%	8	30%	Q-11	
Fluorene	11100	2140	4280	ug/kg dry	1000	34.2	23100	-35100	43-125%	19	30%	Q-11	
Indeno(1,2,3-cd)pyrene	26900	2140	4280	ug/kg dry	1000	34.2	29600	-7890	45-133%	6	30%	Q-11	
2-Methylnaphthalene	ND	2140	4280	ug/kg dry	1000	34.2	ND		38-122%		30%	Q-11	
Naphthalene	7280	2140	4280	ug/kg dry	1000	34.2	5560	5020	35-123%	11	30%	Q-11	
Phenanthrene	82600	2140	4280	ug/kg dry	1000	34.2	149000	-193000	50-121%	14	30%	Q-11	
Pyrene	89100	2140	4280	ug/kg dry	1000	34.2	134000	-131000	47-127%	12	30%	Q-11	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1000x</i>							S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>140 %</i>		<i>54-127 %</i>		<i>"</i>							S-05

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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**QUALITY CONTROL (QC) SAMPLE RESULTS**

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 9120480 - EPA 3546</b>												
<b>Sediment</b>												
<b>Blank (9120480-BLK1)</b>												
Prepared: 12/04/19 10:11 Analyzed: 12/04/19 15:21												
<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: 87 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>95 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>LCS (9120480-BS1)</b>												
Prepared: 12/04/19 10:11 Analyzed: 12/04/19 15:53												
<u>EPA 8270D</u>												
Acenaphthene	16.8	1.25	2.50	ug/kg wet	1	20.0	---	84	40-122%	---	---	
Acenaphthylene	15.9	1.25	2.50	ug/kg wet	1	20.0	---	80	32-132%	---	---	
Anthracene	16.6	1.25	2.50	ug/kg wet	1	20.0	---	83	47-123%	---	---	
Benz(a)anthracene	16.7	1.25	2.50	ug/kg wet	1	20.0	---	84	49-126%	---	---	
Benzo(a)pyrene	18.2	1.25	2.50	ug/kg wet	1	20.0	---	91	45-129%	---	---	
Benzo(b)fluoranthene	18.0	1.25	2.50	ug/kg wet	1	20.0	---	90	45-132%	---	---	
Benzo(k)fluoranthene	17.7	1.25	2.50	ug/kg wet	1	20.0	---	88	47-132%	---	---	
Benzo(g,h,i)perylene	16.5	1.25	2.50	ug/kg wet	1	20.0	---	83	43-134%	---	---	
Chrysene	17.6	1.25	2.50	ug/kg wet	1	20.0	---	88	50-124%	---	---	
Dibenz(a,h)anthracene	17.0	1.25	2.50	ug/kg wet	1	20.0	---	85	45-134%	---	---	
Fluoranthene	17.7	1.25	2.50	ug/kg wet	1	20.0	---	89	50-127%	---	---	

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Darwin Thomas, Business Development Director



<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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**QUALITY CONTROL (QC) SAMPLE RESULTS**

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 9120480 - EPA 3546</b>												
<b>Sediment</b>												
<b>LCS (9120480-BS1)</b>												
Prepared: 12/04/19 10:11 Analyzed: 12/04/19 15:53												
Fluorene	16.1	1.25	2.50	ug/kg wet	1	20.0	---	81	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	16.4	1.25	2.50	ug/kg wet	1	20.0	---	82	45-133%	---	---	
2-Methylnaphthalene	15.4	1.25	2.50	ug/kg wet	1	20.0	---	77	38-122%	---	---	
Naphthalene	17.5	1.25	2.50	ug/kg wet	1	20.0	---	87	35-123%	---	---	
Phenanthrene	17.4	1.25	2.50	ug/kg wet	1	20.0	---	87	50-121%	---	---	
Pyrene	16.9	1.25	2.50	ug/kg wet	1	20.0	---	84	47-127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>90 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>Matrix Spike (9120480-MS1)</b>												
Prepared: 12/04/19 10:11 Analyzed: 12/04/19 16:58												
<b>H-08</b>												
<b>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17)</b>												
<b>EPA 8270D</b>												
Acenaphthene	45600	2220	4440	ug/kg dry	1000	35.5	51300	-15800	40-122%	---	---	Q-11
Acenaphthylene	6170	2220	4440	ug/kg dry	1000	35.5	8710	-7160	32-132%	---	---	Q-11
Anthracene	40700	2220	4440	ug/kg dry	1000	35.5	45600	-13600	47-123%	---	---	Q-11
Benz(a)anthracene	38000	2220	4440	ug/kg dry	1000	35.5	44600	-18400	49-126%	---	---	Q-11
Benzo(a)pyrene	59000	2220	4440	ug/kg dry	1000	35.5	67300	-23300	45-129%	---	---	Q-11
Benzo(b)fluoranthene	49800	2220	4440	ug/kg dry	1000	35.5	58600	-24900	45-132%	---	---	Q-11
Benzo(k)fluoranthene	16900	2220	4440	ug/kg dry	1000	35.5	19600	-7870	47-132%	---	---	Q-11
Benzo(g,h,i)perylene	45900	2220	4440	ug/kg dry	1000	35.5	53200	-20600	43-134%	---	---	Q-11
Chrysene	50700	2220	4440	ug/kg dry	1000	35.5	58000	-20600	50-124%	---	---	Q-11
Dibenz(a,h)anthracene	4900	2220	4440	ug/kg dry	1000	35.5	5540	-1780	45-134%	---	---	Q-11
Fluoranthene	154000	2220	4440	ug/kg dry	1000	35.5	180000	-73900	50-127%	---	---	Q-11
Fluorene	28300	2220	4440	ug/kg dry	1000	35.5	31500	-9020	43-125%	---	---	Q-11
Indeno(1,2,3-cd)pyrene	39200	2220	4440	ug/kg dry	1000	35.5	45100	-16500	45-133%	---	---	Q-11
2-Methylnaphthalene	44200	2220	4440	ug/kg dry	1000	35.5	46900	-7750	38-122%	---	---	Q-11
Naphthalene	20000	2220	4440	ug/kg dry	1000	35.5	23600	-10300	35-123%	---	---	Q-11
Phenanthrene	211000	2220	4440	ug/kg dry	1000	35.5	243000	-92100	50-121%	---	---	Q-11
Pyrene	166000	2220	4440	ug/kg dry	1000	35.5	215000	-136000	47-127%	---	---	Q-11
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 125 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1000x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>194 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>Matrix Spike Dup (9120480-MSD1)</b>												
Prepared: 12/04/19 10:11 Analyzed: 12/04/19 17:31												
<b>H-08</b>												

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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:**

**A910890 - 01 09 20 1416**

**QUALITY CONTROL (QC) SAMPLE RESULTS**

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
<b>Batch 9120480 - EPA 3546</b>													
<b>Sediment</b>													
<b>Matrix Spike Dup (9120480-MSD1)</b>													
Prepared: 12/04/19 10:11 Analyzed: 12/04/19 17:31													
<b>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17)</b>													
<b>EPA 8270D</b>													
Acenaphthene	51500	2210	4420	ug/kg dry	1000	35.4	51300	<b>690</b>	<b>40-122%</b>	12	30%	Q-11	
Acenaphthylene	5910	2210	4420	ug/kg dry	1000	35.4	8710	<b>-7930</b>	<b>32-132%</b>	4	30%	Q-11	
Anthracene	41400	2210	4420	ug/kg dry	1000	35.4	45600	<b>-11600</b>	<b>47-123%</b>	2	30%	Q-11	
Benz(a)anthracene	38900	2210	4420	ug/kg dry	1000	35.4	44600	<b>-16000</b>	<b>49-126%</b>	2	30%	Q-11	
Benzo(a)pyrene	59300	2210	4420	ug/kg dry	1000	35.4	67300	<b>-22600</b>	<b>45-129%</b>	0.5	30%	Q-11	
Benzo(b)fluoranthene	50700	2210	4420	ug/kg dry	1000	35.4	58600	<b>-22300</b>	<b>45-132%</b>	2	30%	Q-11	
Benzo(k)fluoranthene	17300	2210	4420	ug/kg dry	1000	35.4	19600	<b>-6690</b>	<b>47-132%</b>	3	30%	Q-11	
Benzo(g,h,i)perylene	46500	2210	4420	ug/kg dry	1000	35.4	53200	<b>-19000</b>	<b>43-134%</b>	1	30%	Q-11	
Chrysene	51600	2210	4420	ug/kg dry	1000	35.4	58000	<b>-18000</b>	<b>50-124%</b>	2	30%	Q-11	
Dibenz(a,h)anthracene	4720	2210	4420	ug/kg dry	1000	35.4	5540	<b>-2300</b>	<b>45-134%</b>	4	30%	Q-11	
Fluoranthene	159000	2210	4420	ug/kg dry	1000	35.4	180000	<b>-59100</b>	<b>50-127%</b>	3	30%	Q-11	
Fluorene	31200	2210	4420	ug/kg dry	1000	35.4	31500	<b>-901</b>	<b>43-125%</b>	10	30%	Q-11	
Indeno(1,2,3-cd)pyrene	39800	2210	4420	ug/kg dry	1000	35.4	45100	<b>-15000</b>	<b>45-133%</b>	1	30%	Q-11	
2-Methylnaphthalene	51600	2210	4420	ug/kg dry	1000	35.4	46900	<b>13100</b>	<b>38-122%</b>	15	30%	Q-11	
Naphthalene	23100	2210	4420	ug/kg dry	1000	35.4	23600	<b>-1370</b>	<b>35-123%</b>	15	30%	Q-11	
Phenanthrene	222000	2210	4420	ug/kg dry	1000	35.4	243000	<b>-59900</b>	<b>50-121%</b>	5	30%	Q-11	
Pyrene	180000	2210	4420	ug/kg dry	1000	35.4	215000	<b>-97200</b>	<b>47-127%</b>	8	30%	Q-11	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 145 %</i>		<i>Limits: 44-115 %</i>		<i>Dilution: 1000x</i>							S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>182 %</i>		<i>54-127 %</i>		<i>"</i>							S-05

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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:**  
**A910890 - 01 09 20 1416**

**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
<b>Batch 9111270 - PSEP-5310B TOC</b>						<b>Solid</b>						
<b>Blank (9111270-BLK1)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 18:11									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	ND	---	0.020	% by Weight	1	---	---	---	---	---	---	B-02
<b>LCS (9111270-BS1)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 18:22									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	10000	---		mg/kg	1	10000	---	104	85-115%	---	---	
<b>Duplicate (9111270-DUP1)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 18:44									
<u>QC Source Sample: PDI-013SC-A-02-03-190925 (A910890-03)</u>												
<u>SM 5310 B MOD</u>												
Total Organic Carbon	0.92	---	0.020	% by Weight	1	---	1.2	---	---	29	20%	Q-04
<b>Duplicate (9111270-DUP2)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 19:16									
<u>QC Source Sample: Non-SDG (A9J0033-16)</u>												
Total Organic Carbon	1.2	---	0.020	% by Weight	1	---	0.88	---	---	31	20%	Q-04
<b>Duplicate (9111270-DUP3)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 21:04									
<u>QC Source Sample: Non-SDG (A9J0096-01)</u>												
Total Organic Carbon	0.75	---	0.020	% by Weight	1	---	0.41	---	---	58	20%	Q-04
<b>Duplicate (9111270-DUP4)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 21:58									
<u>QC Source Sample: Non-SDG (A9J0353-07)</u>												
Total Organic Carbon	3.2	---	0.020	% by Weight	1	---	3.5	---	---	8	20%	
<b>Duplicate (9111270-DUP5)</b>			Prepared: 11/27/19 08:40 Analyzed: 12/03/19 22:31									
<u>QC Source Sample: Non-SDG (A9J0353-07)</u>												
Total Organic Carbon	2.2	---	0.020	% by Weight	1	---	3.5	---	---	46	20%	Q-04

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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
<b>Batch 9120591 - PSEP-5310B TOC</b>						<b>Soil</b>						
<b>Blank (9120591-BLK1)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/12/19 10:51									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	ND	---	0.020	% by Weight	1	---	---	---	---	---	---	
<b>LCS (9120591-BS1)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/12/19 10:59									
<u>SM 5310 B MOD</u>												
Total Organic Carbon	10000	---		mg/kg	1	10000	---	104	90-110%	---	---	
<b>Duplicate (9120591-DUP1)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/12/19 12:38									
<u>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17)</u>												
<u>SM 5310 B MOD</u>												
Total Organic Carbon	5.8	---	0.020	% by Weight	1	---	5.6	---	---	3	20%	
<b>Duplicate (9120591-DUP2)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/12/19 16:38									
<u>QC Source Sample: Non-SDG (A9J0033-50)</u>												
Total Organic Carbon	3.3	---	0.020	% by Weight	1	---	3.5	---	---	6	20%	
<b>Duplicate (9120591-DUP3)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/12/19 18:00									
<u>QC Source Sample: Non-SDG (A9J0095-02)</u>												
Total Organic Carbon	0.13	---	0.020	% by Weight	1	---	0.23	---	---	56	20%	Q-17
<b>Duplicate (9120591-DUP4)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/13/19 12:00									
<u>QC Source Sample: Non-SDG (A9J0096-23)</u>												
Total Organic Carbon	0.40	---	0.020	% by Weight	1	---	0.34	---	---	17	20%	
<b>Duplicate (9120591-DUP5)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/13/19 14:12									
<u>QC Source Sample: Non-SDG (A9J0353-41RE1)</u>												
Total Organic Carbon	0.30	---	0.020	% by Weight	1	---	0.18	---	---	50	20%	Q-04
<b>Duplicate (9120591-DUP6)</b>			Prepared: 12/05/19 11:39 Analyzed: 12/13/19 16:50									
<u>QC Source Sample: Non-SDG (A9J0463-39)</u>												
Total Organic Carbon	0.58	---	0.020	% by Weight	1	---	0.56	---	---	4	20%	

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**Apex Laboratories, LLC**

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

<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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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
<b>Batch 9111229 - Total Solids (SM2540G/PSEP)</b>						<b>Sediment</b>						
<b>Duplicate (9111229-DUP1)</b>						Prepared: 11/26/19 12:48 Analyzed: 11/27/19 18:30						
<u>QC Source Sample: PDI-013SC-A-02-03-190925 (A910890-03)</u>												
<u>SM 2540 G</u>												
Total Solids	87.1	1.00	1.00	% by Weight	1	---	87.3	---	---	0.3	10%	

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 503-718-2323  
 EPA ID: OR01039

<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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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
<b>Batch 9120500 - Total Solids (SM2540G/PSEP)</b>						<b>Sediment</b>						
<b>Duplicate (9120500-DUP1)</b>						Prepared: 12/06/19 17:00 Analyzed: 12/09/19 17:08						
<u>QC Source Sample: PDI-018SC-A-06-07-190926 (A910890-17)</u>												
<u>SM 2540 G</u>												
Total Solids	54.1	1.00	1.00	% by Weight	1	---	53.9	---	---	0.2	10%	

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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:**  
A910890 - 01 09 20 1416

**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
<u>Batch: 9120609</u>							
A910890-17	Sediment	EPA 8082A	09/26/19 08:54	12/06/19 10:18	30.43g/2mL	30g/2mL	0.99
A910890-18	Sediment	EPA 8082A	09/26/19 08:54	12/06/19 10:18	30.41g/2mL	30g/2mL	0.99
<u>Batch: 9121399</u>							
A910890-03RE1	Sediment	EPA 8082A	09/25/19 13:51	12/30/19 09:02	30.44g/5mL	30g/2mL	2.46
A910890-04RE1	Sediment	EPA 8082A	09/25/19 13:51	12/30/19 09:02	30.11g/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
<u>Batch: 9120511</u>							
A910890-03RE1	Sediment	EPA 8081B	09/25/19 13:51	11/26/19 11:20	10.14g/10mL	10g/5mL	1.97
A910890-04RE1	Sediment	EPA 8081B	09/25/19 13:51	11/26/19 11:20	10.59g/10mL	10g/5mL	1.89
<u>Batch: 9120780</u>							
A910890-17RE1	Sediment	EPA 8081B	09/26/19 08:54	12/05/19 08:35	10.2g/10mL	10g/5mL	1.96
A910890-18RE1	Sediment	EPA 8081B	09/26/19 08:54	12/05/19 08:35	10.74g/10mL	10g/5mL	1.86

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

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9111215</u>							
A910890-03	Sediment	EPA 8270D	09/25/19 13:51	11/26/19 10:06	10.27g/5mL	10g/5mL	0.97
A910890-04	Sediment	EPA 8270D	09/25/19 13:51	11/26/19 10:06	10.35g/5mL	10g/5mL	0.97
<u>Batch: 9120480</u>							
A910890-17	Sediment	EPA 8270D	09/26/19 08:54	12/04/19 10:11	10.38g/5mL	10g/5mL	0.96
A910890-18	Sediment	EPA 8270D	09/26/19 08:54	12/04/19 10:11	10.17g/5mL	10g/5mL	0.98

**Demand Parameters**

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9111270</u>							
A910890-03	Sediment	SM 5310 B MOD	09/25/19 13:51	11/27/19 08:40			NA
A910890-04	Sediment	SM 5310 B MOD	09/25/19 13:51	11/27/19 08:40			NA

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Darwin Thomas, Business Development Director



<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A9I0890 - 01 09 20 1416
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**SAMPLE PREPARATION INFORMATION**

**Demand Parameters**

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 9120591</u>							
A9I0890-17	Sediment	SM 5310 B MOD	09/26/19 08:54	12/05/19 11:39			NA
A9I0890-18	Sediment	SM 5310 B MOD	09/26/19 08:54	12/05/19 11:39			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
<u>Batch: 9111229</u>							
A9I0890-03	Sediment	SM 2540 G	09/25/19 13:51	11/26/19 12:48			NA
A9I0890-04	Sediment	SM 2540 G	09/25/19 13:51	11/26/19 12:48			NA
<u>Batch: 9120500</u>							
A9I0890-17	Sediment	SM 2540 G	09/26/19 08:54	12/06/19 17:00			NA
A9I0890-18	Sediment	SM 2540 G	09/26/19 08:54	12/06/19 17:00			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:**
**A910890 - 01 09 20 1416**

## QUALIFIER DEFINITIONS

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

#### Apex Laboratories

- A-01** Sample replicate RSD >30% indicating a non-homogenous matrix. Confirmed by re-analysis.
- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- 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.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-11** Spike recovery cannot be accurately quantified due to sample dilution required for high analyte concentration and/or matrix interference.
- Q-17** RPD between original and duplicate sample is outside of established control limits.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-03** Reextraction and analysis, or analysis of laboratory duplicate, confirms surrogate failure due to sample matrix effect.
- S-04** Surrogate recovery is outside of established control limits due to a sample matrix effect.
- 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

01/30/20 Anchor QEA, LLC - Gasco PreRD\_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 37 of 1075



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:  
A910890 - 01 09 20 1416

**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.

Apex Laboratories

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> A910890 - 01 09 20 1416
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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

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**Apex Laboratories, LLC**

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

<b><u>Anchor QEA, LLC</u></b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b><u>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</u></b> Project Number: [none] Project Manager: <b>Ryan Barth</b>	<b>Report ID:</b> <b>A910890 - 01 09 20 1416</b>
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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

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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:**  
A910890 - 01 09 20 1416

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

**Anchor QEA**  
 1201 3rd Avenue, Suite 200, Seattle, WA 98101  
 POC: \* Delaney Peterson (360-715-2707)  
 1605 Cornwell Avenue, Bellingham, WA 98225  
 Project: Gasco PDI  
 Client: NW Natural

COC ID: **A910890**  
 Sample Custodian: **dep**  
 Lab: **Apex - Archive**

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab #	Lab OC	Test Request	Method	TAT**	Preservative
001	PDI-013SC-A-00-01-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-013SC-A-01-02-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-013SC-A-02-03-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-013SC-A-03-04-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-013SC-A-04-05-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-013SC-A-05-06-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-013SC-A-06-07-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-013SC-A-07-08-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-013SC-A-08-09-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-013SC-A-09-10-190925	N	SE	09/25/2019	13:51	1			Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-018SC-A-00-01-190928	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Received By	Relinquished By	Received By	Relinquished By
Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Delaney Peterson	Delaney Peterson	Delaney Peterson	Delaney Peterson
Anchor QEA	Anchor QEA	Anchor QEA	Anchor QEA
9/27/19 10:25	9/27/19 10:25	9/27/19 10:25	9/27/19 10:25

Date Printed: 9/26/2019

\* Lab QC Requested for sample when box is checked \*\* TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Page 1 of 5

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*[Signature]*





**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:**  
A910890 - 01 09 20 1416

COC ID: **A910890**  
APEX1-20190926-165106  
Sample Custodian: dep  
Lab: Apex - Archive

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**



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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab #	OC*	Test Request	Method	TAT**	Preservative
011	PDI-0185C-A-00-01-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
012	PDI-0185C-A-01-02-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-0185C-A-02-03-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-0185C-A-03-04-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-0185C-A-04-05-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-0185C-A-05-06-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-0185C-A-06-07-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-0185C-A-07-08-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-0185C-A-08-09-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-0185C-A-09-10-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-0185C-A-10-11-190926	N	SE	09/26/2019	8:54	1			Archive (APEX)	ARCHIVE	-1	-10°C

Received By	Signature	Print Name	Company	Date/Time	Retained By	Signature	Print Name	Company	Date/Time
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				
<i>[Signature]</i>					<i>[Signature]</i>				

\* Lab OC Requested for sample when box is checked \*\* TAT = Turn Around Time in DAYS # POC = Project Point of Contact

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.

*[Signature]*





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:  
A910890 - 01 09 20 1416

COC ID: A910890  
APEX1-20190926-165106  
Sample Custodian: dep  
Lab: Apex - Archive

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab #	CC*	Test Request	Method	TAT**	Preservative
021	PDI-018SC-A-10-11-190926	N	SE	09/26/2019	8:54	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-100SC-J-04-05-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-100SC-J-05-06-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-100SC-J-06-07-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-100SC-J-07-08-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-100SC-J-08-09-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-100SC-J-09-10-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-100SC-J-10-11-190926	N	SE	09/26/2019	11:11	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-100SC-J-11-16-190926	N	SE	09/26/2019	12:20	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-101SC-J-04-05-190926	N	SE	09/26/2019	14:54	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1		<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C

Requested By	Received By	Requested By	Received By	Requested By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: Delaney Peterson	Print Name: E. J. [Name]	Print Name: E. J. [Name]	Print Name: E. J. [Name]	Print Name: E. J. [Name]	Print Name: E. J. [Name]
Company: APEX LABS	Company: APEX LABS	Company: APEX LABS	Company: APEX LABS	Company: APEX LABS	Company: APEX LABS
Date/Time: 9/27/19 10:25	Date/Time: 9/27/19 10:25	Date/Time: 9/27/19 10:25	Date/Time: 9/27/19 10:25	Date/Time: 9/27/19 10:25	Date/Time: 9/27/19 10:25

\* Lab OC Requested for sample when box is checked \*\* TAT = Turn Around Time in DAYS # POC = Project Point of Contact

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.

*[Signature]*



**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:**  
A910890 - 01 09 20 1416

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**



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

Project: Gasco PDI  
Client: NW Natural

COC ID: **A910890**  
APEX1-20190926-165106  
Sample Custodian: dep  
Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab QC #	Test Request	Method	TAI**	Preservative
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
032	PDI-101SC-J-06-07-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
033	PDI-101SC-J-07-08-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
034	PDI-101SC-J-08-09-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
035	PDI-101SC-J-09-10-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
036	PDI-101SC-J-10-11-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
037	PDI-101SC-J-11-12-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
038	PDI-101SC-J-12-13-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
039	PDI-101SC-J-13-14-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
040	PDI-101SC-J-14-15-190926	N	SE	09/26/2019	14:54	1		Archive (APEX)	ARCHIVE	-1	-10°C
041	PDI-101SC-J-15-16-190926	N	SE	09/26/2019	15:50	1		Archive (APEX)	ARCHIVE	-1	-10°C

Relinquished By	Received By	Relinquished By	Received By
Delaney Peterson	Eli Joyner	Delaney Peterson	Eli Joyner
APEX LABS	APEX LABS	APEX LABS	APEX LABS
9/27/19 10:25	9/27/19 10:25	9/27/19 10:25	9/27/19 10:25

Date Printed: 9/26/2019  
\* Lab QC Requested for sample when box is checked. \*\* TAI = Turn Around Time in DAYS # POC = Project Point of Contact  
Page 4 of 5





<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Cores</b> Project Number: [none] Project Manager: Ryan Barth	<b>Report ID:</b> A910890 - 01 09 20 1416
--	--	--

**APEX LABS COOLER RECEIPT FORM**

Client: Anchor QEA Element WO#: A910890

Project/Project #: Gasco PPI

**Delivery Info:**  
 Date/time received: 9-27-19 @ 1025 By: EJ  
 Delivered by: Apex  Client  ESS  FedEx  UPS  Swift  Senvoy  SDS  Other

**Cooler Inspection** Date/time inspected: 9-27-19 @ 1127 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>2.1</u>	<u>1.4</u>	<u>1.1</u>	<u>NO</u>			
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>			
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>			
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>	<u>Real</u>	<u>Real</u>			
Condition:	<u>Good</u>	<u>Good</u>	<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: 9-26-19 @ 16:10 By: TAC

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: TAC Witness: dm Cooler Inspected by: TAC See Project Contact Form: Y



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

**A9I0890**

**Apex Laboratories**

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

<p><b>Report To:</b>                  Anchor QEA, LLC                  Ryan Barth                  6720 SW Macadam Ave. Suite 125                  Portland, OR 97219                  Phone: (503) 670-1108                  Fax: na</p>	<p><b>Invoice To:</b>                  Anchor QEA, LLC Seattle                  Accounts Payable                  1201 3rd Avenue, Suite 2600                  Seattle, WA 98101                  Phone : (206) 287-9130                  Fax: (206) 287-9131</p>
---	---

Date Due: 02/03/20 17:00 (86 day TAT)	
Received By: Eli S. Joyner	Date Received: 09/27/19 10:25
Logged In By: Cameron L O'Brien	Date Logged In: 09/27/19 16:12

<b>Cooler #1 received at 2.1°C</b>									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								
<b>Cooler #2 received at 1.4°C</b>									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								
<b>Cooler #3 received at 1.1°C</b>									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								
<b>Cooler #4 received at 1.0°C</b>									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
<b>A9I0890-01 PDI-013SC-A-00-01-190925 [Sediment] Sampled 09/25/19 13:51</b>				<b>HOLD</b>
<b>(GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>A9I0890-02 PDI-013SC-A-01-02-190925 [Sediment] Sampled 09/25/19 13:51</b>				<b>HOLD</b>
<b>(GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	

A9I0890

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
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**A9I0890-03 PDI-013SC-A-02-03-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	12/11/19 17:00	3	03/23/20 13:51	Use Results from TS.. Make NR once completed.
<b>Project Mgmt</b>				
Data Package	01/30/20 17:00	20	01/02/20 13:51	
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	12/11/19 17:00	10	10/09/19 13:51	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/11/19 17:00	10	09/24/20 13:51	+1262,1268
<b>Semivols (Scan)</b>				
8270D LL PAH Only (Scan)	12/11/19 17:00	10	10/09/19 13:51	
<b>Wet Chem</b>				
Solids, Total (SM 2540 G,B)	12/11/19 17:00	10	03/23/20 13:51	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	12/11/19 17:00	10	10/23/19 13:51	

**A9I0890-04 PDI-013SC-A-03-04-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	12/11/19 17:00	3	03/23/20 13:51	Use Results from TS.. Make NR once completed.
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	12/11/19 17:00	10	10/09/19 13:51	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/11/19 17:00	10	09/24/20 13:51	+1262,1268
<b>Semivols (Scan)</b>				
8270D LL PAH Only (Scan)	12/11/19 17:00	10	10/09/19 13:51	
<b>Wet Chem</b>				
Solids, Total (SM 2540 G,B)	12/11/19 17:00	10	03/23/20 13:51	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	12/11/19 17:00	10	10/23/19 13:51	

**A9I0890-05 PDI-013SC-A-04-05-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US & Canada) 1 Containers** **Relogged as A0A0633-01**

Analysis	Due	TAT	Expires	Comments
<b>Sample Control</b>				
Archive Samples - Frozen	11/06/19 17:00	28	09/26/19 13:51	

**A9I0890**

**Apex Laboratories**

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

Analysis	Due	TAT	Expires	Comments
<b>A9I0890-06 PDI-013SC-A-05-06-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>A9I0890-07 PDI-013SC-A-06-07-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>A9I0890-08 PDI-013SC-A-07-08-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>A9I0890-09 PDI-013SC-A-08-09-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>A9I0890-10 PDI-013SC-A-09-10-190925 [Sediment] Sampled 09/25/19 13:51 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/26/19 13:51	
<b>A9I0890-11 PDI-018SC-A-00-01-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-12 PDI-018SC-A-01-02-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-13 PDI-018SC-A-02-03-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-14 PDI-018SC-A-03-04-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	



A9I0890

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
<b>A9I0890-15 PDI-018SC-A-04-05-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-16 PDI-018SC-A-05-06-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-17 PDI-018SC-A-06-07-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				
<b>Dry Weight</b>				
Dry Weight	12/16/19 17:00	3	03/24/20 08:54	Use Results from TS.. Make NR once completed.
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	12/16/19 17:00	10	10/10/19 08:54	MS/MSD, MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/16/19 17:00	10	09/25/20 08:54	MS/MSD, +1262,1268
<b>Semivols (Scan)</b>				
8270D LL PAH Only (Scan)	12/16/19 17:00	10	10/10/19 08:54	MS/MSD
<b>Wet Chem</b>				
Solids, Total (SM 2540 G,B)	12/16/19 17:00	10	03/24/20 08:54	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	12/16/19 17:00	10	10/24/19 08:54	MS/MSD
<b>A9I0890-18 PDI-018SC-A-07-08-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				
<b>Dry Weight</b>				
Dry Weight	12/16/19 17:00	3	03/24/20 08:54	Use Results from TS.. Make NR once completed.
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	12/16/19 17:00	10	10/10/19 08:54	MDL. Use Custom Spike.
8082 PCBs - Low Level (30g/2mL)	12/16/19 17:00	10	09/25/20 08:54	+1262,1268
<b>Semivols (Scan)</b>				
8270D LL PAH Only (Scan)	12/16/19 17:00	10	10/10/19 08:54	
<b>Wet Chem</b>				
Solids, Total (SM 2540 G,B)	12/16/19 17:00	10	03/24/20 08:54	Use Results for Dry Weight (Not for Waters)
Total Organic Carbon - Soil (5310 B)	12/16/19 17:00	10	10/24/19 08:54	

**A9I0890**

**Apex Laboratories**

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

Analysis	Due	TAT	Expires	Comments
<b>A9I0890-19 PDI-018SC-A-08-09-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				Relogged as A0A0633-02
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-20 PDI-018SC-A-09-10-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				Relogged as A0A0633-03
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-21 PDI-018SC-A-10-11-190926 [Sediment] Sampled 09/26/19 08:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 08:54	
<b>A9I0890-22 PDI-100SC-J-04-05-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	
<b>A9I0890-23 PDI-100SC-J-05-06-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	
<b>A9I0890-24 PDI-100SC-J-06-07-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	
<b>A9I0890-25 PDI-100SC-J-07-08-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	
<b>A9I0890-26 PDI-100SC-J-08-09-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	
<b>A9I0890-27 PDI-100SC-J-09-10-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				HOLD
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	

**A9I0890**

**Apex Laboratories**

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

Analysis	Due	TAT	Expires	Comments
<b>A9I0890-28 PDI-100SC-J-10-11-190926 [Sediment] Sampled 09/26/19 11:11 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 11:11	
<b>A9I0890-29 PDI-100SC-J-11-11.6-190926 [Sediment] Sampled 09/26/19 12:20 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 12:20	
<b>A9I0890-30 PDI-101SC-J-04-05-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	
<b>A9I0890-31 PDI-101SC-J-05-06-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	
<b>A9I0890-32 PDI-101SC-J-06-07-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	
<b>A9I0890-33 PDI-101SC-J-07-08-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	
<b>A9I0890-34 PDI-101SC-J-08-09-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	
<b>A9I0890-35 PDI-101SC-J-09-10-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	
<b>A9I0890-36 PDI-101SC-J-10-11-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US &amp; Canada) 1 Containers</b>				<b>HOLD</b>
<b>Sample Control</b>				
Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54	

A9I0890

Apex Laboratories

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

Analysis	Due	TAT	Expires	Comments
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**A9I0890-37 PDI-101SC-J-11-12-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US & Canada) 1 Containers** **HOLD**  
**Sample Control**

Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54
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**A9I0890-38 PDI-101SC-J-12-13-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US & Canada) 1 Containers** **HOLD**  
**Sample Control**

Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54
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**A9I0890-39 PDI-101SC-J-13-14-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US & Canada) 1 Containers** **HOLD**  
**Sample Control**

Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54
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**A9I0890-40 PDI-101SC-J-14-15-190926 [Sediment] Sampled 09/26/19 14:54 (GMT-08:00) Pacific Time (US & Canada) 1 Containers** **HOLD**  
**Sample Control**

Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 14:54
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**A9I0890-41 PDI-101SC-J-15-15.6-190926 [Sediment] Sampled 09/26/19 15:50 (GMT-08:00) Pacific Time (US & Canada) 1 Containers** **HOLD**  
**Sample Control**

Archive Samples - Frozen	09/30/19 17:00	1	09/27/19 15:50
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**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

*A910890*

POC: \* Delaney Peterson (360-715-2707)

Project: Gasco PDI

COC ID: APEX1-20190926-165106

1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

Sample Custodian: dep

Lab: Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-013SC-A-00-01-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
002	PDI-013SC-A-01-02-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
003	PDI-013SC-A-02-03-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
004	PDI-013SC-A-03-04-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
005	PDI-013SC-A-04-05-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
006	PDI-013SC-A-05-06-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
007	PDI-013SC-A-06-07-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
008	PDI-013SC-A-07-08-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
009	PDI-013SC-A-08-09-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
010	PDI-013SC-A-09-10-190925	N	SE	09/25/2019	13:51	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C
011	PDI-018SC-A-00-01-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>				
								Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature <i>[Signature]</i>	Received By: Signature <i>[Signature]</i>	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name D Peterson	Print Name Eri Joyner	Print Name	Print Name	Print Name	Print Name
Company AQ	Company APEX LABS	Company	Company	Company	Company
Date/Time 9-27-19 1025	Date/Time 9-27-19 1025	Date/Time	Date/Time	Date/Time	Date/Time

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

*A910890*

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

**Project:** Gasco PDI  
**Client:** NW Natural

**COC ID:** APEX1-20190926-165106  
**Sample Custodian:** dep  
**Lab:** Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
011	PDI-018SC-A-00-01-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
012	PDI-018SC-A-01-02-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
013	PDI-018SC-A-02-03-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
014	PDI-018SC-A-03-04-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
015	PDI-018SC-A-04-05-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
016	PDI-018SC-A-05-06-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
017	PDI-018SC-A-06-07-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
018	PDI-018SC-A-07-08-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
019	PDI-018SC-A-08-09-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
020	PDI-018SC-A-09-10-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
021	PDI-018SC-A-10-11-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Comment:					
Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
<i>D. Peterson</i>	<i>E. Joyner</i>				
<i>AQ</i>	<i>APEX LABS</i>				
<i>9-27-19 1025</i>	<i>9-27-19 1025</i>				

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

*AP110890*

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

**Project:** Gasco PDI  
**Client:** NW Natural

**COC ID:** APEX1-20190926-165106  
**Sample Custodian:** dep  
**Lab:** Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
021	PDI-018SC-A-10-11-190926	N	SE	09/26/2019	8:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
022	PDI-100SC-J-04-05-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
023	PDI-100SC-J-05-06-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
024	PDI-100SC-J-06-07-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
025	PDI-100SC-J-07-08-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
026	PDI-100SC-J-08-09-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
027	PDI-100SC-J-09-10-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
028	PDI-100SC-J-10-11-190926	N	SE	09/26/2019	11:11	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
029	PDI-100SC-J-11-11.6-190926	N	SE	09/26/2019	12:20	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
030	PDI-101SC-J-04-05-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Relinquished By:						Received By:					
Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature
<i>[Signature]</i>	<i>[Signature]</i>										
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
D Peterson	Eli Jaynes										
Company	Company	Company	Company	Company	Company	Company	Company	Company	Company	Company	Company
AQ	APEX LABS										
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
9.27.19 1025	9-27-19 1025										

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

*A910890*

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

**Project:** Gasco PDI  
**Client:** NW Natural

**COC ID:** APEX1-20190926-165106  
**Sample Custodian:** dep  
**Lab:** Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
031	PDI-101SC-J-05-06-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
032	PDI-101SC-J-06-07-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
033	PDI-101SC-J-07-08-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
034	PDI-101SC-J-08-09-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
035	PDI-101SC-J-09-10-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
036	PDI-101SC-J-10-11-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
037	PDI-101SC-J-11-12-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
038	PDI-101SC-J-12-13-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
039	PDI-101SC-J-13-14-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
040	PDI-101SC-J-14-15-190926	N	SE	09/26/2019	14:54	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C
041	PDI-101SC-J-15-15.6-190926	N	SE	09/26/2019	15:50	1	<input type="checkbox"/>	Archive (APEX)	ARCHIVE	-1	-10°C

Comment:

Comment:							
Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature
<i>D. Peterson</i>	<i>EL Joyvel</i>						
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
D. Peterson	EL Joyvel						
Company	Company	Company	Company	Company	Company	Company	Company
AQ	APEX LABS						
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
9.27.19 1025	9-27-19 1025						



**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

A910890

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

**Project:** Gasco PDI  
**Client:** NW Natural

**COC ID:** APEX1-20190926-165106  
**Sample Custodian:** dep  
**Lab:** Apex - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
041	PDI-101SC-J-15-15.6-190926	N	SE	09/26/2019	15:50	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	D. Peterson	Print Name	E. Joyner	Print Name		Print Name		Print Name		Print Name	
Company	AQ	Company	APEX LABS	Company		Company		Company		Company	
Date/Time	9-27-19 1025	Date/Time	9-27-19 1025	Date/Time		Date/Time		Date/Time		Date/Time	

**APEX LABS COOLER RECEIPT FORM**

Client: Anchor QEA Element WO#: A9 I0890

Project/Project #: Gasco PDI

**Delivery Info:**

Date/time received: 9-27-19 @ 1025 By: ET

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

**Cooler Inspection** Date/time inspected: 9-27-19 @ 1127 By: ET

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>2.1</u>	<u>1.4</u>	<u>1.1</u>	<u>NO</u>			
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>			
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>			
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>	<u>Real</u>	<u>Real</u>			
Condition:	<u>Good</u>	<u>Good</u>	<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: 9-26-19 @ 16:10 By: TAL

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: TAL Witness: dm Cooler Inspected by: TAL 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 Co

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<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>PDI-013SC-A-02-03-190925</u>	<u>A9I0890-03</u>	<u>Sediment</u>
<u>PDI-013SC-A-03-04-190925</u>	<u>A9I0890-04</u>	<u>Sediment</u>
<u>PDI-018SC-A-06-07-190926</u>	<u>A9I0890-17</u>	<u>Sediment</u>
<u>PDI-018SC-A-07-08-190926</u>	<u>A9I0890-18</u>	<u>Sediment</u>

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: \_\_\_\_\_

1/21/2020 4:33PM

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 .

# 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: Soil

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-013SC-A-02-03-190925

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>A9I0890-03RE1</u>	File ID: <u>ECD2F016.D</u>
Sampled: <u>09/25/19 13:51</u>	Prepared: <u>12/30/19 09:02</u>	Analyzed: <u>01/02/20 14:19</u>
Solids: <u>87.34</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>30.44 g / 5 mL</u>
Batch: <u>9121399</u>	Sequence: <u>0A02025</u>	Calibration: <u>A9L0407</u>
		Instrument: <u>DUALECD2F</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.89	U
11104-28-2	Aroclor 1221	1	1.89	U
11141-16-5	Aroclor 1232	1	4.51	U
53469-21-9	Aroclor 1242	1	3.75	U
12672-29-6	Aroclor 1248	1	1.89	U
11097-69-1	Aroclor 1254	1	1.89	U
11096-82-5	Aroclor 1260	1	4.68	
37324-23-5	Aroclor 1262	1	1.89	U
11100-14-4	Aroclor 1268	1	1.89	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	18.8	9.74	52	43 - 120	

\* Values outside of QC limits



# ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-013SC-A-03-04-190925

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>A9I0890-04RE1</u>	File ID: <u>ECD2F018.D</u>
Sampled: <u>09/25/19 13:51</u>	Prepared: <u>12/30/19 09:02</u>	Analyzed: <u>01/02/20 14:54</u>
Solids: <u>79.42</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>30.11 g / 2 mL</u>
Batch: <u>9121399</u>	Sequence: <u>0A02025</u>	Calibration: <u>A9L0407</u> Instrument: <u>DUALECD2F</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.841	U
11104-28-2	Aroclor 1221	1	0.841	U
11141-16-5	Aroclor 1232	1	0.841	U
53469-21-9	Aroclor 1242	1	0.841	U
12672-29-6	Aroclor 1248	1	0.841	U
11097-69-1	Aroclor 1254	1	0.841	U
11096-82-5	Aroclor 1260	1	0.841	U
37324-23-5	Aroclor 1262	1	0.841	U
11100-14-4	Aroclor 1268	1	0.841	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	20.9	14.5	69	43 - 120	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-018SC-A-06-07-190926

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>A9I0890-17</u>	File ID: <u>ECD2F007.D</u>
Sampled: <u>09/26/19 08:54</u>	Prepared: <u>12/06/19 10:18</u>	Analyzed: <u>12/16/19 09:26</u>
Solids: <u>53.92</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>30.43 g / 2 mL</u>
Batch: <u>9120609</u>	Sequence: <u>9L16015</u>	Calibration: <u>A9L0407</u> Instrument: <u>DUALECD2F</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	1.23	U
11104-28-2	Aroclor 1221	1	2.43	U
11141-16-5	Aroclor 1232	1	5.67	U
53469-21-9	Aroclor 1242	1	2.43	U
12672-29-6	Aroclor 1248	1	3.29	U
11097-69-1	Aroclor 1254	1	1.23	U
11096-82-5	Aroclor 1260	1	28.4	
37324-23-5	Aroclor 1262	1	1.23	U
11100-14-4	Aroclor 1268	1	1.23	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	30.5	18.2	60	43 - 120	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8082A

PDI-018SC-A-07-08-190926

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>A9I0890-18</u>	File ID: <u>ECD2F013.D</u>
Sampled: <u>09/26/19 08:54</u>	Prepared: <u>12/06/19 10:18</u>	Analyzed: <u>12/16/19 11:12</u>
Solids: <u>77.99</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>30.41 g / 2 mL</u>
Batch: <u>9120609</u>	Sequence: <u>9L16015</u>	Calibration: <u>A9L0407</u>
		Instrument: <u>DUALECD2F</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.847	U
11104-28-2	Aroclor 1221	1	0.847	U
11141-16-5	Aroclor 1232	1	2.40	U
53469-21-9	Aroclor 1242	1	1.68	U
12672-29-6	Aroclor 1248	1	1.68	U
11097-69-1	Aroclor 1254	1	0.847	U
11096-82-5	Aroclor 1260	1	23.3	
37324-23-5	Aroclor 1262	1	0.847	U
11100-14-4	Aroclor 1268	1	0.847	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl (Surr)	21.1	14.4	68	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: 9120609 Batch Matrix: Soil

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120609-BLK1	ECD2F005.D	12/06/19 10:18	
LCS	9120609-BS1	ECD2F006.D	12/06/19 10:18	
PDI-018SC-A-06-07-190926 (MS)	9120609-MS1	ECD2F009.D	12/06/19 10:18	
PDI-018SC-A-06-07-190926 (MSD)	9120609-MSD1	ECD2F011.D	12/06/19 10:18	
PDI-018SC-A-06-07-190926	A9I0890-17	ECD2F007.D	12/06/19 10:18	
PDI-018SC-A-07-08-190926	A9I0890-18	ECD2F013.D	12/06/19 10:18	

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.

# 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: 9121399

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9121399-BLK1	ECD2F013.D	12/30/19 09:02	
LCS	9121399-BS1	ECD2F014.D	12/30/19 09:02	
LCS Dup	9121399-BSD1	ECD2F015.D	12/30/19 09:02	
PDI-013SC-A-02-03-190925	A9I0890-03RE1	ECD2F016.D	12/30/19 09:02	
PDI-013SC-A-03-04-190925	A9I0890-04RE1	ECD2F018.D	12/30/19 09:02	

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.



# METHOD BLANK DATA SHEET

**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>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>9121399-BLK1</u>	File ID: <u>ECD2F013.D</u>
Prepared: <u>12/30/19 09:02</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>31 g / 2 mL</u>
Analyzed: <u>01/02/20 13:26</u>	Instrument: <u>DUALECD2F</u>	
Batch: <u>9121399</u>	Sequence: <u>0A02025</u>	Calibration: <u>A9L0407</u>

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	16.1	100	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: Soil

Batch: 9120609

Laboratory ID: 9120609-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	55.4	66	47 - 134
Aroclor 1260	83.3	71.2	85	53 - 140

\* = Values outside of QC limits



# 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: 9121399

Laboratory ID: 9121399-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	60.1	72	47 - 134
Aroclor 1260	83.3	79.1	95	53 - 140

\* = Values outside of QC limits



# MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

PDI-018SC-A-06-07-190926

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: Soil

Batch: 9120609

Laboratory ID: 9120609-MS1

Preparation: EPA 3546

Initial/Final: 30.54 g / 2 mL

Source Sample Name: PDI-018SC-A-06-07-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (* = Out)	QC LIMITS REC.
Aroclor 1016	152	ND	68.7	45 *	47 - 134
Aroclor 1260	152	28.4	94.9	44 *	53 - 140

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

**EPA 8082A**

**PDI-018SC-A-06-07-190926**

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: 9120609

Laboratory ID: 9120609-MSD1

Preparation: EPA 3546

Initial/Final: 30.47 g / 2 mL

Source Sample Name: PDI-018SC-A-06-07-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS	
					RPD	REC.
Aroclor 1016	152	59.1	39 *	15	30	47 - 134
Aroclor 1260	152	84.9	37 *	11	30	53 - 140

# 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: 0A02025

Instrument: DUALECD2F

Matrix: Sediment

Calibration: A9L0407

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0A02025-CCV2	ECD2F011.D	01/02/20 12:43
Calibration Blank	0A02025-CCB2	ECD2F012.D	01/02/20 13:01
Blank	9121399-BLK1	ECD2F013.D	01/02/20 13:26
LCS	9121399-BS1	ECD2F014.D	01/02/20 13:44
LCS Dup	9121399-BSD1	ECD2F015.D	01/02/20 14:01
PDI-013SC-A-02-03-190925	A9I0890-03RE1	ECD2F016.D	01/02/20 14:19
PDI-013SC-A-03-04-190925	A9I0890-04RE1	ECD2F018.D	01/02/20 14:54
Calibration Check	0A02025-CCV3	ECD2F025.D	01/02/20 16:47
Calibration Blank	0A02025-CCB3	ECD2F026.D	01/02/20 17:05

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: 9L03052

Instrument: DUALECD2F

Matrix: Sediment

Calibration: A9L0407

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9L03052-ICB1	ECD2F002.D	12/03/19 16:47
Cal Standard	9L03052-CAL1	ECD2F003.D	12/03/19 17:04
Cal Standard	9L03052-CAL2	ECD2F004.D	12/03/19 17:22
Cal Standard	9L03052-CAL3	ECD2F005.D	12/03/19 17:40
Cal Standard	9L03052-CAL4	ECD2F006.D	12/03/19 17:57
Cal Standard	9L03052-CAL5	ECD2F007.D	12/03/19 18:15
Cal Standard	9L03052-CAL6	ECD2F008.D	12/03/19 18:32
Cal Standard	9L03052-CAL7	ECD2F009.D	12/03/19 18:50
Initial Cal Check	9L03052-ICV1	ECD2F011.D	12/03/19 19:25
Cal Standard	9L03052-CAL8	ECD2F012.D	12/03/19 19:43
Cal Standard	9L03052-CAL9	ECD2F013.D	12/03/19 20:01
Cal Standard	9L03052-CALA	ECD2F014.D	12/03/19 20:18
Cal Standard	9L03052-CALB	ECD2F015.D	12/03/19 20:36
Cal Standard	9L03052-CALC	ECD2F016.D	12/03/19 20:53
Cal Standard	9L03052-CALD	ECD2F017.D	12/03/19 21:11
Cal Standard	9L03052-CALE	ECD2F018.D	12/03/19 21:29
Initial Cal Check	9L03052-ICV2	ECD2F019.D	12/03/19 21:46
Initial Cal Check	9L03052-ICV3	ECD2F020.D	12/03/19 22:04
Initial Cal Check	9L03052-ICV4	ECD2F021.D	12/03/19 22:21
Initial Cal Check	9L03052-ICV5	ECD2F022.D	12/03/19 22:39

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: <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>9L16015</u>	Instrument: <u>DUALECD2F</u>
Matrix: <u>Soil</u>	Calibration: <u>A9L0407</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L16015-CCV1	ECD2F003.D	12/16/19 08:14
Calibration Blank	9L16015-CCB1	ECD2F004.D	12/16/19 08:32
Blank	9120609-BLK1	ECD2F005.D	12/16/19 08:51
LCS	9120609-BS1	ECD2F006.D	12/16/19 09:08
PDI-018SC-A-06-07-190926	A9I0890-17	ECD2F007.D	12/16/19 09:26
PDI-018SC-A-06-07-190926 (MS)	9120609-MS1	ECD2F009.D	12/16/19 10:01
PDI-018SC-A-06-07-190926 (MSD)	9120609-MSD1	ECD2F011.D	12/16/19 10:36
PDI-018SC-A-07-08-190926	A9I0890-18	ECD2F013.D	12/16/19 11:12
Calibration Check	9L16015-CCV2	ECD2F015.D	12/16/19 11:47
Calibration Blank	9L16015-CCB2	ECD2F016.D	12/16/19 12:04

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: A9L0407

Date: 12/04/19 16:35

Instrument: DUALECD2F

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)	111675.2	Ave	5.500462	9.577571	1.534808E-02			20	

Note: \*\* Quad COD may be incorrect if weighting (1/a) or (1/a<sup>2</sup>) 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: A9L0407

Instrument: DUALECD2F

Calibration Date: 12/04/19 16:35

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	4495.2	50	3868.58	100	3742.24	200	3518.675	500	3742.964	1000	3364.096
1016 (2)	20	8055.7	50	7041.6	100	7109.24	200	6629.815	500	7719.472	1000	6834.377
1016 (3)	20	4743.3	50	3989.8	100	3902.73	200	3716.885	500	4044.31	1000	3751.237
1016 (4)	20	4367.6	50	3817.86	100	3564.25	200	3253.31	500	3640.01	1000	3257.104
1016 (5)	20	4872.4	50	4418.04	100	4040.11	200	3837.1	500	4384.308	1000	3740.486
1016 (6)	20	3414.35	50	3075.66	100	2907.89	200	2718.155	500	2968.966	1000	2774.363
Aroclor 1016	20	θ	50	θ	100	θ	200	θ	500	θ	1000	θ
1260 (1)	20	9305.95	50	8378.72	100	8424.4	200	7900.825	500	8847.398	1000	7808.345
1260 (2)	20	11265.7	50	10133.76	100	10128.79	200	9613.795	500	10650.27	1000	9589.273
1260 (3)	20	8938.8	50	8042.48	100	8021.99	200	7279.085	500	7995.658	1000	7355.01
1260 (4)	20	18701.5	50	18890.76	100	18328.8	200	18081.26	500	20178.5	1000	17708.5
1260 (5)	20	12705.3	50	12305.94	100	12216.37	200	11356.71	500	12577.89	1000	11580.15
1260 (6)	20	5766.1	50	5178.38	100	5114.87	200	4648.95	500	5398.078	1000	4725.786
Aroclor 1260	20	θ	50	θ	100	θ	200	θ	500	θ	1000	θ
Decachlorobiphenyl (Surr)	10	108539.5	25	107985.3	50	113778.6	100	105778.6	250	124333.5	500	109807.6

# 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: A9L0407

Instrument: DUALECD2F

Matrix:

Calibration Date: 12/04/19 16:35

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	3433.924										
1016 (2)	1500	6967.146										
1016 (3)	1500	3662.205										
1016 (4)	1500	3141.323										
1016 (5)	1500	3767.969										
1016 (6)	1500	2673.243										
Aroclor 1016	1500	ϕ										
1254 (1)											500	5998.118
1254 (2)											500	7287.568
1254 (3)											500	11209.97
1254 (4)											500	7130.028
1254 (5)											500	7658.99
1254 (6)											500	2493.888
Aroclor 1254											500	ϕ
1260 (1)	1500	7628.894										
1260 (2)	1500	10035.16										
1260 (3)	1500	7423.086										
1260 (4)	1500	18439.97										
1260 (5)	1500	11929.48										
1260 (6)	1500	4970.047										
Aroclor 1260	1500	ϕ										
Decachlorobiphenyl (Surr)	800	111502.9	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: A9L0407

Instrument: DUALECD2F

Matrix:

Calibration Date: 12/04/19 16:35

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	8046.414										
1262 (2)	500	11225.07										
1262 (3)	500	9704.932										
1262 (4)	500	20660.1										
1262 (5)	500	13082.36										
1262 (6)	500	6676.638										
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: DUALECD2F Calibration: A9L0407  
Lab File ID: ECD2F011.D  
Sequence: 9L03052 Inject Date: 12/03/19  
Lab Sample ID: 9L03052-ICV1 Inject Time: 19:25

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1016	500	434	-13.1	70 - 130
Aroclor 1260	500	429	-14.1	70 - 130
Decachlorobiphenyl (Surr)	200	184	-7.8	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: DUALECD2F Calibration: A9L0407  
Lab File ID: ECD2F019.D  
Sequence: 9L03052 Inject Date: 12/03/19  
Lab Sample ID: 9L03052-ICV2 Inject Time: 21:46

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1221	1000	923	-7.7	70 - 130
Aroclor 1254	500	507	1.3	70 - 130
Decachlorobiphenyl (Surr)	80.0	81.5	1.8	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: DUALECD2F Calibration: A9L0407  
Lab File ID: ECD2F020.D  
Sequence: 9L03052 Inject Date: 12/03/19  
Lab Sample ID: 9L03052-ICV3 Inject Time: 22:04

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1232	500	541	8.2	70 - 130
Aroclor 1262	500	492	-1.6	70 - 130
Decachlorobiphenyl (Surr)	80.0	83.5	4.4	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: DUALECD2F Calibration: A9L0407  
Lab File ID: ECD2F021.D  
Sequence: 9L03052 Inject Date: 12/03/19  
Lab Sample ID: 9L03052-ICV4 Inject Time: 22:21

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Aroclor 1242	500	523	4.6	70 - 130
Aroclor 1268	500	490	-1.9	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>DUALECD2F</u>	Calibration: <u>A9L0407</u>
Lab File ID: <u>ECD2F011.D</u>	Calibration Date: <u>12/04/19 16:35</u>
Sequence: <u>0A02025</u>	Injection Date: <u>01/02/20</u>
Lab Sample ID: <u>0A02025-CCV2</u>	Injection Time: <u>12:43</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	535				7.0	20
Aroclor 1260	Ave	500	557				11.3	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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>DUALECD2F</u>	Calibration: <u>A9L0407</u>
Lab File ID: <u>ECD2F025.D</u>	Calibration Date: <u>12/04/19 16:35</u>
Sequence: <u>0A02025</u>	Injection Date: <u>01/02/20</u>
Lab Sample ID: <u>0A02025-CCV3</u>	Injection Time: <u>16:47</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	555				10.9	20
Aroclor 1260	Ave	500	545				9.1	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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>DUALECD2F</u>	Calibration: <u>A9L0407</u>
Lab File ID: <u>ECD2F003.D</u>	Calibration Date: <u>12/04/19 16:35</u>
Sequence: <u>9L16015</u>	Injection Date: <u>12/16/19</u>
Lab Sample ID: <u>9L16015-CCV1</u>	Injection Time: <u>08:14</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				-6.9	20
Aroclor 1260	Ave	500	511				2.3	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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>DUALECD2F</u>	Calibration: <u>A9L0407</u>
Lab File ID: <u>ECD2F015.D</u>	Calibration Date: <u>12/04/19 16:35</u>
Sequence: <u>9L16015</u>	Injection Date: <u>12/16/19</u>
Lab Sample ID: <u>9L16015-CCV2</u>	Injection Time: <u>11:47</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	484				-3.2	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>0A02025</u>	Instrument: <u>DUALECD2F</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9L0407</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (0A02025-CCV2 )</b>			Lab File ID: ECD2F011.D		Analyzed: 01/02/20 12:43			
Decachlorobiphenyl (Surr)	250	111	80 - 120	9.556	9.577571	-0.0216	+/-1.0	
<b>Calibration Blank (0A02025-CCB2 )</b>			Lab File ID: ECD2F012.D		Analyzed: 01/02/20 13:01			
Decachlorobiphenyl (Surr)	100	110	43 - 120	9.555	9.577571	-0.0226	+/-1.0	
<b>Blank (9121399-BLK1 )</b>			Lab File ID: ECD2F013.D		Analyzed: 01/02/20 13:26			
Decachlorobiphenyl (Surr)	16.1	100	43 - 120	9.558	9.577571	-0.0196	+/-1.0	
<b>LCS (9121399-BS1 )</b>			Lab File ID: ECD2F014.D		Analyzed: 01/02/20 13:44			
Decachlorobiphenyl (Surr)	16.7	100	43 - 120	9.556	9.577571	-0.0216	+/-1.0	
<b>LCS Dup (9121399-BSD1 )</b>			Lab File ID: ECD2F015.D		Analyzed: 01/02/20 14:01			
Decachlorobiphenyl (Surr)	16.7	102	43 - 120	9.556	9.577571	-0.0216	+/-1.0	
<b>PDI-013SC-A-02-03-190925 (A9I0890-03RE1 )</b>			Lab File ID: ECD2F016.D		Analyzed: 01/02/20 14:19			
Decachlorobiphenyl (Surr)	18.8	52	43 - 120	9.557	9.577571	-0.0206	+/-1.0	
<b>PDI-013SC-A-03-04-190925 (A9I0890-04RE1 )</b>			Lab File ID: ECD2F018.D		Analyzed: 01/02/20 14:54			
Decachlorobiphenyl (Surr)	20.9	69	43 - 120	9.555	9.577571	-0.0226	+/-1.0	
<b>Calibration Check (0A02025-CCV3 )</b>			Lab File ID: ECD2F025.D		Analyzed: 01/02/20 16:47			
Decachlorobiphenyl (Surr)	250	112	80 - 120	9.554	9.577571	-0.0236	+/-1.0	
<b>Calibration Blank (0A02025-CCB3 )</b>			Lab File ID: ECD2F026.D		Analyzed: 01/02/20 17:05			
Decachlorobiphenyl (Surr)	100	113	43 - 120	9.553	9.577571	-0.0246	+/-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>9L03052</u>	Instrument: <u>DUALECD2F</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9L0407</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (9L03052-ICV1)</b>			Lab File ID: ECD2F011.D		Analyzed: 12/03/19 19:25			
Decachlorobiphenyl (Surr)	200	92	70 - 130	9.577	9.577571	-0.0006	+/-1.0	
<b>Initial Cal Check (9L03052-ICV2)</b>			Lab File ID: ECD2F019.D		Analyzed: 12/03/19 21:46			
Decachlorobiphenyl (Surr)	80.0	102	70 - 130	9.576	9.577571	-0.0016	+/-1.0	
<b>Initial Cal Check (9L03052-ICV3)</b>			Lab File ID: ECD2F020.D		Analyzed: 12/03/19 22:04			
Decachlorobiphenyl (Surr)	80.0	104	70 - 130	9.577	9.577571	-0.0006	+/-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>9L16015</u>	Instrument: <u>DUALECD2F</u>
Matrix: <u>Soil</u>	Calibration: <u>A9L0407</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L16015-CCV1)</b>			Lab File ID: ECD2F003.D		Analyzed: 12/16/19 08:14			
Decachlorobiphenyl (Surr)	250	109	80 - 120	9.582	9.577571	0.0044	+/-1.0	
<b>Calibration Blank (9L16015-CCB1)</b>			Lab File ID: ECD2F004.D		Analyzed: 12/16/19 08:32			
Decachlorobiphenyl (Surr)	100	112	43 - 120	9.581	9.577571	0.0034	+/-1.0	
<b>Blank (9120609-BLK1)</b>			Lab File ID: ECD2F005.D		Analyzed: 12/16/19 08:51			
Decachlorobiphenyl (Surr)	16.1	99	43 - 120	9.582	9.577571	0.0044	+/-1.0	
<b>LCS (9120609-BS1)</b>			Lab File ID: ECD2F006.D		Analyzed: 12/16/19 09:08			
Decachlorobiphenyl (Surr)	16.7	105	43 - 120	9.582	9.577571	0.0044	+/-1.0	
<b>PDI-018SC-A-06-07-190926 (A910890-17)</b>			Lab File ID: ECD2F007.D		Analyzed: 12/16/19 09:26			
Decachlorobiphenyl (Surr)	30.5	60	43 - 120	9.584	9.577571	0.0064	+/-1.0	
<b>Matrix Spike (9120609-MS1)</b>			Lab File ID: ECD2F009.D		Analyzed: 12/16/19 10:01			
Decachlorobiphenyl (Surr)	30.4	62	43 - 120	9.582	9.577571	0.0044	+/-1.0	
<b>Matrix Spike Dup (9120609-MSD1)</b>			Lab File ID: ECD2F011.D		Analyzed: 12/16/19 10:36			
Decachlorobiphenyl (Surr)	30.4	55	43 - 120	9.583	9.577571	0.0054	+/-1.0	
<b>PDI-018SC-A-07-08-190926 (A910890-18)</b>			Lab File ID: ECD2F013.D		Analyzed: 12/16/19 11:12			
Decachlorobiphenyl (Surr)	21.1	68	43 - 120	9.581	9.577571	0.0034	+/-1.0	
<b>Calibration Check (9L16015-CCV2)</b>			Lab File ID: ECD2F015.D		Analyzed: 12/16/19 11:47			
Decachlorobiphenyl (Surr)	250	110	80 - 120	9.579	9.577571	0.0014	+/-1.0	
<b>Calibration Blank (9L16015-CCB2)</b>			Lab File ID: ECD2F016.D		Analyzed: 12/16/19 12:04			
Decachlorobiphenyl (Surr)	100	110	43 - 120	9.578	9.577571	0.0004	+/-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-013SC-A-02-03-190925	09/25/19 13:51	09/27/19 10:25	12/30/19 09:02	95.80	365.00	01/02/20 14:19	3.22	40.00	
PDI-013SC-A-03-04-190925	09/25/19 13:51	09/27/19 10:25	12/30/19 09:02	95.80	365.00	01/02/20 14:54	3.24	40.00	
PDI-018SC-A-06-07-190926	09/26/19 08:54	09/27/19 10:25	12/06/19 10:18	71.06	365.00	12/16/19 09:26	9.96	40.00	
PDI-018SC-A-07-08-190926	09/26/19 08:54	09/27/19 10:25	12/06/19 10:18	71.06	365.00	12/16/19 11:12	10.04	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 C

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<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>PDI-013SC-A-02-03-190925</u>	<u>A9I0890-03</u>	<u>Sediment</u>
<u>PDI-013SC-A-03-04-190925</u>	<u>A9I0890-04</u>	<u>Sediment</u>
<u>PDI-018SC-A-06-07-190926</u>	<u>A9I0890-17</u>	<u>Sediment</u>
<u>PDI-018SC-A-07-08-190926</u>	<u>A9I0890-18</u>	<u>Sediment</u>

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:

1/21/2020 4:33PM

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 [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 .

# 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: Soil

Analyte	MDL	MRL	Units
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-013SC-A-02-03-190925

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>A9I0890-03RE1</u>	File ID: <u>ECD5-12101907.D</u>
Sampled: <u>09/25/19 13:51</u>	Prepared: <u>11/26/19 11:20</u>	Analyzed: <u>12/10/19 13:16</u>
Solids: <u>87.34</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.14 g / 10 mL</u>
Batch: <u>9120511</u>	Sequence: <u>9L10037</u>	Calibration: <u>A9H2608</u> Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	13.5	U
3424-82-6	2,4'-DDE	5	19.2	U
789-02-6	2,4'-DDT [2C]	5	16.9	U
72-54-8	4,4'-DDD	5	35.7	D
72-55-9	4,4'-DDE	5	16.4	U
50-29-3	4,4'-DDT [2C]	5	55.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr)	56.5	50.6	90	42 - 129	
Decachlorobiphenyl (Surr)	56.5	64.4	114	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-013SC-A-03-04-190925

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>A9I0890-04RE1</u>	File ID: <u>ECD5-12091930.D</u>
Sampled: <u>09/25/19 13:51</u>	Prepared: <u>11/26/19 11:20</u>	Analyzed: <u>12/09/19 19:39</u>
Solids: <u>79.42</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.59 g / 10 mL</u>
Batch: <u>9120511</u>	Sequence: <u>9L09034</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	2.38	U
3424-82-6	2,4'-DDE [2C]	2	2.38	U
789-02-6	2,4'-DDT [2C]	2	2.38	U
72-54-8	4,4'-DDD [2C]	2	2.38	U
72-55-9	4,4'-DDE [2C]	2	2.38	U
50-29-3	4,4'-DDT	2	7.13	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	59.5	44.4	75	42 - 129	
Decachlorobiphenyl (Surr) [2C]	59.5	67.3	113	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-018SC-A-06-07-190926

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>A9I0890-17RE1</u>	File ID: <u>ECD5-12131907.D</u>
Sampled: <u>09/26/19 08:54</u>	Prepared: <u>12/05/19 08:35</u>	Analyzed: <u>12/13/19 13:04</u>
Solids: <u>53.92</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.2 g / 10 mL</u>
Batch: <u>9120780</u>	Sequence: <u>9L13033</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	5	18.2	U
3424-82-6	2,4'-DDE	5	18.2	U
789-02-6	2,4'-DDT	5	27.3	U
72-54-8	4,4'-DDD [2C]	5	9.09	U
72-55-9	4,4'-DDE	5	9.09	U
50-29-3	4,4'-DDT [2C]	5	25.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr)	90.9	94.7	104	42 - 129	
Decachlorobiphenyl (Surr)	90.9	118	130	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

PDI-018SC-A-07-08-190926

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>A9I0890-18RE1</u>	File ID: <u>ECD5-12131913.D</u>
Sampled: <u>09/26/19 08:54</u>	Prepared: <u>12/05/19 08:35</u>	Analyzed: <u>12/13/19 14:57</u>
Solids: <u>77.99</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>10.74 g / 10 mL</u>
Batch: <u>9120780</u>	Sequence: <u>9L13033</u>	Calibration: <u>A9H2608</u>
		Instrument: <u>DUALECD5</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD [2C]	2	14.6	U
3424-82-6	2,4'-DDE	2	6.21	U
789-02-6	2,4'-DDT	2	12.9	U
72-54-8	4,4'-DDD	2	8.12	U
72-55-9	4,4'-DDE	2	6.69	U
50-29-3	4,4'-DDT	2	15.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	59.7	67.6	113	42 - 129	
Decachlorobiphenyl (Surr)	59.7	64.0	107	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: 9120511 Batch Matrix: Soil

Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120511-BLK1	ECD5-12091909.D	11/26/19 11:20	
LCS	9120511-BS1	ECD5-12091910.D	11/26/19 11:20	
PDI-013SC-A-02-03-190925	A9I0890-03RE1	ECD5-12101907.D	11/26/19 11:20	
PDI-013SC-A-03-04-190925	A9I0890-04RE1	ECD5-12091930.D	11/26/19 11:20	

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.

# 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: 9120780

Batch Matrix: Sediment

Preparation: EPA 3546/3640A (GPC)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120780-BLK1	ECD5-12121925.D	12/05/19 08:35	
LCS	9120780-BS1	ECD5-12121926.D	12/05/19 08:35	
PDI-018SC-A-06-07-190926 (MS)	9120780-MS1	ECD5-12131909.D	12/05/19 08:35	
PDI-018SC-A-06-07-190926 (MSD)	9120780-MSD1	ECD5-12131911.D	12/05/19 08:36	
PDI-018SC-A-06-07-190926	A9I0890-17RE1	ECD5-12131907.D	12/05/19 08:35	
PDI-018SC-A-07-08-190926	A9I0890-18RE1	ECD5-12131913.D	12/05/19 08:35	

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: <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>9120780-BLK1</u>	File ID: <u>ECD5-12121925.D</u>
Prepared: <u>12/05/19 08:35</u>	Preparation: <u>EPA 3546/3640A (GPC)</u>	Initial/Final: <u>11 g / 10 mL</u>
Analyzed: <u>12/12/19 18:32</u>	Instrument: <u>DUALECD5</u>	
Batch: <u>9120780</u>	Sequence: <u>9L12029</u>	Calibration: <u>A9H2608</u>

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	27.8	61	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	47.6	105	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: Soil

Batch: 9120511

Laboratory ID: 9120511-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	44.1	88	75 - 130
2,4'-DDE [2C]	50.0	38.2	76	74 - 131
2,4'-DDT [2C]	50.0	48.8	98	64 - 136
4,4'-DDD [2C]	50.0	47.6	95	56 - 139
4,4'-DDE [2C]	50.0	43.6	87	56 - 134
4,4'-DDT [2C]	50.0	59.9	120	50 - 141

\* = Values outside of QC limits

# 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: 9120780

Laboratory ID: 9120780-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	46.8	94	50 - 150
2,4'-DDE [2C]	50.0	43.7	87	50 - 150
2,4'-DDT [2C]	50.0	51.4	103	50 - 150
4,4'-DDD [2C]	50.0	49.3	99	50 - 150
4,4'-DDE [2C]	50.0	48.4	97	50 - 150
4,4'-DDT [2C]	50.0	59.9	120	50 - 150

\* = Values outside of QC limits

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY****PDI-018SC-A-06-07-190926****EPA 8081B**Laboratory: Apex LaboratoriesSDG: Gasco PreRD\_DG 2019Client: Anchor QEA, LLCProject: Gasco PreRD\_DG 2019 - 4a-b. DOC-CAP Testing CMatrix: SedimentBatch: 9120780Laboratory ID: 9120780-MS1Preparation: EPA 3546/3640A (GPC)Initial/Final: 10.25 g / 10 mLSource Sample Name: PDI-018SC-A-06-07-190926

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 [2C]	90.5	ND	88.7	98	50 - 150
2,4'-DDE	90.5	ND	107	118	50 - 150
2,4'-DDT	90.5	ND	127	141	50 - 150
4,4'-DDD [2C]	90.5	ND	91.2	101	50 - 150
4,4'-DDE	90.5	ND	107	119	50 - 150
4,4'-DDT [2C]	90.5	ND	129	142	50 - 150

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

**EPA 8081B**

**PDI-018SC-A-06-07-190926**

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: 9120780

Laboratory ID: 9120780-MSD1

Preparation: EPA 3546/3640A (GPC)

Initial/Final: 10.18 g / 10 mL

Source Sample Name: PDI-018SC-A-06-07-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS	
					RPD	REC.
2,4'-DDD [2C]	91.1	83.5	92	6	35	50 - 150
2,4'-DDE	91.1	105	115	2	35	50 - 150
2,4'-DDT	91.1	123	135	3	35	50 - 150
4,4'-DDD [2C]	91.1	88.2	97	3	30	50 - 150
4,4'-DDE	91.1	101	111	6	30	50 - 150
4,4'-DDT [2C]	91.1	118	130	8	30	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: 9H23034

Instrument: DUALECD5

Matrix: Sediment

Calibration: A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	9H23034-ICB1	ECD5-08231907.D	08/23/19 13:33
Cal Standard	9H23034-CAL1	ECD5-08231908.D	08/23/19 13:51
Cal Standard	9H23034-CAL2	ECD5-08231909.D	08/23/19 14:08
Cal Standard	9H23034-CAL3	ECD5-08231910.D	08/23/19 14:25
Cal Standard	9H23034-CAL4	ECD5-08231911.D	08/23/19 14:42
Cal Standard	9H23034-CAL5	ECD5-08231912.D	08/23/19 15:00
Cal Standard	9H23034-CAL6	ECD5-08231913.D	08/23/19 15:17
Cal Standard	9H23034-CAL7	ECD5-08231914.D	08/23/19 15:34
Cal Standard	9H23034-CAL8	ECD5-08231915.D	08/23/19 15:52
Initial Cal Check	9H23034-ICV1	ECD5-08231917.D	08/23/19 16:26
Cal Standard	9H23034-CAL9	ECD5-08231918.D	08/23/19 16:44
Cal Standard	9H23034-CALA	ECD5-08231919.D	08/23/19 17:01
Cal Standard	9H23034-CALB	ECD5-08231920.D	08/23/19 17:18
Cal Standard	9H23034-CALC	ECD5-08231921.D	08/23/19 17:35
Cal Standard	9H23034-CALD	ECD5-08231922.D	08/23/19 17:53
Cal Standard	9H23034-CALE	ECD5-08231923.D	08/23/19 18:10
Cal Standard	9H23034-CALF	ECD5-08231924.D	08/23/19 18:27
Cal Standard	9H23034-CALG	ECD5-08231925.D	08/23/19 18:45
Initial Cal Check	9H23034-ICV2	ECD5-08231927.D	08/23/19 19:19

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: Apex Laboratories

SDG: Gasco PreRD\_DG 2019

Client: Anchor QEA, LLC

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

Sequence: 9L09034

Instrument: DUALECD5

Matrix: Soil

Calibration: A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L09034-CCV1	ECD5-12091906.D	12/09/19 12:33
Calibration Check	9L09034-CCV2	ECD5-12091907.D	12/09/19 12:50
Calibration Blank	9L09034-CCB1	ECD5-12091908.D	12/09/19 13:07
Blank	9120511-BLK1	ECD5-12091909.D	12/09/19 13:24
LCS	9120511-BS1	ECD5-12091910.D	12/09/19 13:41
Calibration Check	9L09034-CCV3	ECD5-12091919.D	12/09/19 16:16
Calibration Check	9L09034-CCV4	ECD5-12091920.D	12/09/19 16:34
Calibration Blank	9L09034-CCB2	ECD5-12091921.D	12/09/19 16:51
PDI-013SC-A-03-04-190925	A9I0890-04RE1	ECD5-12091930.D	12/09/19 19:39
Calibration Check	9L09034-CCV5	ECD5-12091938.D	12/09/19 22:10
Calibration Check	9L09034-CCV6	ECD5-12091939.D	12/09/19 22:28
Calibration Blank	9L09034-CCB3	ECD5-12091940.D	12/09/19 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.

# 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: 9L10037

Instrument: DUALECD5

Matrix: Soil

Calibration: A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L10037-CCV1	ECD5-12101904.D	12/10/19 12:25
Calibration Check	9L10037-CCV2	ECD5-12101905.D	12/10/19 12:42
Calibration Blank	9L10037-CCB1	ECD5-12101906.D	12/10/19 12:59
PDI-013SC-A-02-03-190925	A9I0890-03RE1	ECD5-12101907.D	12/10/19 13:16
Calibration Check	9L10037-CCV3	ECD5-12101919.D	12/10/19 17:03
Calibration Check	9L10037-CCV4	ECD5-12101920.D	12/10/19 17:21
Calibration Blank	9L10037-CCB2	ECD5-12101921.D	12/10/19 17:38
Calibration Check	9L10037-CCV5	ECD5-12101932.D	12/10/19 20:47
Calibration Check	9L10037-CCV6	ECD5-12101933.D	12/10/19 21:04
Calibration Blank	9L10037-CCB3	ECD5-12101934.D	12/10/19 21:21

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: Apex Laboratories

SDG: Gasco PreRD\_DG 2019

Client: Anchor QEA, LLC

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

Sequence: 9L12029

Instrument: DUALECD5

Matrix: Sediment

Calibration: A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L12029-CCV3	ECD5-12121916.D	12/12/19 15:42
Calibration Check	9L12029-CCV4	ECD5-12121917.D	12/12/19 15:59
Calibration Blank	9L12029-CCB3	ECD5-12121918.D	12/12/19 16:16
Blank	9120780-BLK1	ECD5-12121925.D	12/12/19 18:32
LCS	9120780-BS1	ECD5-12121926.D	12/12/19 18:50
Calibration Check	9L12029-CCV5	ECD5-12121937.D	12/12/19 22:16
Calibration Check	9L12029-CCV6	ECD5-12121938.D	12/12/19 22:33
Calibration Blank	9L12029-CCB4	ECD5-12121939.D	12/12/19 22:50

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: Apex Laboratories

SDG: Gasco PreRD\_DG 2019

Client: Anchor QEA, LLC

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

Sequence: 9L13033

Instrument: DUALECD5

Matrix: Sediment

Calibration: A9H2608

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L13033-CCV1	ECD5-12131904.D	12/13/19 12:12
Calibration Check	9L13033-CCV2	ECD5-12131905.D	12/13/19 12:29
Calibration Blank	9L13033-CCB1	ECD5-12131906.D	12/13/19 12:46
PDI-018SC-A-06-07-190926	A9I0890-17RE1	ECD5-12131907.D	12/13/19 13:04
PDI-018SC-A-06-07-190926 (MS)	9120780-MS1	ECD5-12131909.D	12/13/19 13:41
PDI-018SC-A-06-07-190926 (MSD)	9120780-MSD1	ECD5-12131911.D	12/13/19 14:19
PDI-018SC-A-07-08-190926	A9I0890-18RE1	ECD5-12131913.D	12/13/19 14:57
Calibration Check	9L13033-CCV3	ECD5-12131924.D	12/13/19 18:20
Calibration Check	9L13033-CCV4	ECD5-12131925.D	12/13/19 18:37
Calibration Blank	9L13033-CCB2	ECD5-12131926.D	12/13/19 18:55
Calibration Check	9L13033-CCV5	ECD5-12131938.D	12/13/19 22:34
Calibration Check	9L13033-CCV6	ECD5-12131939.D	12/13/19 22:51
Calibration Blank	9L13033-CCB3	ECD5-12131940.D	12/13/19 23:08

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: A9H2608

Date: 08/26/19 15:54

Instrument: DUALECD5

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD [2C]	188863.5	Ave	5.468165	8.495	9.988916E-03			20	
2,4'-DDE	128261.1	Ave	4.012395	7.333375	2.067566E-02			20	
2,4'-DDT	109687.6	Ave	4.881428	7.888375	4.012057E-03			20	
2,4'-DDT [2C]	178339.3	Ave	6.244514	8.719	1.272704E-02			20	
4,4'-DDD	157140.6	Ave	3.110384	8.004875	2.289486E-02			20	
4,4'-DDD [2C]	256213.9	Ave	7.371719	8.758875	1.283137E-02			20	
4,4'-DDE	188529.8	Ave	2.915791	7.584	2.433162E-02			20	
4,4'-DDT	119560.1	Ave	9.715941	8.202875	1.981001E-02			20	
4,4'-DDT [2C]	189158.9	XXX	11.87705	8.98525	9.169041E-03				
2,4,5,6-TCMX (Surr)	165975.6	Ave	3.999025	5.39525	2.207219E-02			20	
2,4,5,6-TCMX (Surr) [2C]	293366.8	Ave	3.539338	5.98975	1.128579E-02			20	
Decachlorobiphenyl (Surr)	141098.6	Ave	8.332442	9.5925	1.576214E-03			20	

Note: \*\* Quad COD may be incorrect if weighting (1/a) or (1/a<sup>2</sup>) 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: A9H2608

Instrument: DUALECD5

Calibration Date: 08/26/19 15:54

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	1	164956	2	157311	5	158099.6	10	156597.4	25	149081.4	50	154523.9
4,4'-DDD [2C]	1	251549	2	244060	5	241728.4	10	242549.6	25	245858.8	50	263189
4,4'-DDE	1	193435	2	194309	5	190670.2	10	189093.1	25	182842.6	50	183547.8
4,4'-DDE [2C]	1	298463	2	299033	5	297599.8	10	304979.2	25	300041.9	50	311094.2
4,4'-DDT	1	113897	2	109095	5	110601.8	10	114655.6	25	116978.7	50	124107.4
4,4'-DDT [2C]	1	179700	2	170891	5	174730.6	10	184111.9	25	179215.5	50	185709.8
2,4,5,6-TCMX (Surr)	1	176748	2	174986	5	166841.2	10	164444.7	25	160633.3	50	161429.6
2,4,5,6-TCMX (Surr) [2C]	1	300053	2	300383	5	287575.2	10	286585.4	25	282916.9	50	283935
Decachlorobiphenyl (Surr)	1	163865	2	154952	5	140210	10	133546.8	25	133705.4	50	133579.8
Decachlorobiphenyl (Surr) [2C]	1	191572	2	195003	5	174184.2	10	167872.8	25	166529.2	50	174613.8

# 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: A9H2608

Instrument: DUALECD5

Matrix:

Calibration Date: 08/26/19 15:54

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					1	120240	2	116544.5	5	112188.4	10	110358.7
2,4'-DDD [2C]					1	192040	2	186798	5	179739.4	10	177879
2,4'-DDE					1	137947	2	132606	5	126633.6	10	124526.5
2,4'-DDE [2C]					1	219164	2	205906	5	205937.4	10	201833.1
2,4'-DDT					1	107110	2	102104.5	5	107393.4	10	105156.5
2,4'-DDT [2C]					1	173338	2	166085	5	174614.8	10	170256.8
4,4'-DDD	100	154371.5	200	162184								
4,4'-DDD [2C]	100	262974.8	200	297801.4								
4,4'-DDE	100	180525.5	200	193815.4								
4,4'-DDE [2C]	100	324996	200	349211.8								
4,4'-DDT	100	121769.6	200	145376.1								
4,4'-DDT [2C]	100	197895	200	241017.2								
2,4,5,6-TCMX (Surr)	100	158509.2	200	164212.7								
2,4,5,6-TCMX (Surr) [2C]	100	292563.3	200	312922.3								
Decachlorobiphenyl (Surr)	100	134054	200	134876.2								
Decachlorobiphenyl (Surr) [2C]	100	177840.7	200	190488.9								



# 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: A9H2608

Instrument: DUALECD5

Matrix:

Calibration Date: 08/26/19 15:54

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	25	109807.1	50	118401.9	100	115875.5	200	109584.8				
2,4'-DDD [2C]	25	175567.4	50	198498.7	100	201189.2	200	199196.5				
2,4'-DDE	25	122376.8	50	130211.8	100	127690.7	200	124096				
2,4'-DDE [2C]	25	199969.3	50	220128	100	221644	200	222523				
2,4'-DDT	25	109151.8	50	113746.5	100	117713.5	200	115124.8				
2,4'-DDT [2C]	25	176222.2	50	176211.8	100	189989.7	200	199996.2				

## 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>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-08231917.D</u>	
Sequence: <u>9H23034</u>	Inject Date: <u>08/23/19</u>
Lab Sample ID: <u>9H23034-ICV1</u>	Inject Time: <u>16:26</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	51.2	2.4	70 - 130
4,4'-DDD [2C]	50.0	55.1	10.2	70 - 130
4,4'-DDE	50.0	51.3	2.6	70 - 130
4,4'-DDE [2C]	50.0	52.7	5.3	70 - 130
4,4'-DDT	50.0	53.8	7.5	70 - 130
4,4'-DDT [2C]	50.0	54.1	8.2	70 - 130
2,4,5,6-TCMX (Surr)	50.0	49.5	-1.1	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	49.3	-1.4	70 - 130
Decachlorobiphenyl (Surr)	50.0	49.1	-1.8	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	48.2	-3.6	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: DUALECD5 Calibration: A9H2608  
Lab File ID: ECD5-08231927.D  
Sequence: 9H23034 Inject Date: 08/23/19  
Lab Sample ID: 9H23034-ICV2 Inject Time: 19:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	47.7	-4.7	70 - 130
2,4'-DDD [2C]	50.0	48.8	-2.4	70 - 130
2,4'-DDE	50.0	47.1	-5.7	70 - 130
2,4'-DDE [2C]	50.0	47.9	-4.3	70 - 130
2,4'-DDT	50.0	48.6	-2.8	70 - 130
2,4'-DDT [2C]	50.0	47.1	-5.8	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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12091906.D

Calibration Date: 08/26/19 15:54

Sequence: 9L09034

Injection Date: 12/09/19

Lab Sample ID: 9L09034-CCV1

Injection Time: 12:33

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	47.1		157140.6	147994.8	-5.8	20
4,4'-DDD [2C]	Ave	50.0	45.4		256213.9	232648.2	-9.2	20
4,4'-DDE	Ave	50.0	47.1		188529.8	177655.5	-5.8	20
4,4'-DDE [2C]	Ave	50.0	49.0		310677.4	304559	-2.0	20
4,4'-DDT	Ave	50.0	55.4		119560.1	132438.3	10.8	20
4,4'-DDT [2C]	XXX	50.0	51.7	3.3				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12091907.D

Calibration Date: 08/26/19 15:54

Sequence: 9L09034

Injection Date: 12/09/19

Lab Sample ID: 9L09034-CCV2

Injection Time: 12:50

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	41.8		114125.1	95372.96	-16.4	20
2,4'-DDD [2C]	Ave	50.0	40.6		188863.5	153167.9	-18.9	20
2,4'-DDE	Ave	50.0	41.4		128261.1	106146.4	-17.2	20
2,4'-DDE [2C]	Ave	50.0	42.8		212138.1	181513.9	-14.4	20
2,4'-DDT	Ave	50.0	47.6		109687.6	104406.7	-4.8	20
2,4'-DDT [2C]	Ave	50.0	43.8		178339.3	156385	-12.3	20

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

\* = Values outside of QC limits

# CONTINUING CALIBRATION CHECK

## 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>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-12091919.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9L09034</u>	Injection Date: <u>12/09/19</u>
Lab Sample ID: <u>9L09034-CCV3</u>	Injection Time: <u>16:16</u>

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	91.8		157140.6	144287.6	-8.2	20
4,4'-DDD [2C]	Ave	100	98.0		256213.9	251056.8	-2.0	20
4,4'-DDE	Ave	100	97.0		188529.8	182799.2	-3.0	20
4,4'-DDE [2C]	Ave	100	100		310677.4	311242.2	0.2	20
4,4'-DDT	Ave	100	117		119560.1	139953.3	17.1	20
4,4'-DDT [2C]	XXX	100	105	5.3				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12091920.D

Calibration Date: 08/26/19 15:54

Sequence: 9L09034

Injection Date: 12/09/19

Lab Sample ID: 9L09034-CCV4

Injection Time: 16:34

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	88.4		114125.1	100836.3	-11.6	20
2,4'-DDD [2C]	Ave	100	90.4		188863.5	170649.5	-9.6	20
2,4'-DDE	Ave	100	88.9		128261.1	114046.3	-11.1	20
2,4'-DDE [2C]	Ave	100	94.1		212138.1	199520.2	-5.9	20
2,4'-DDT	Ave	100	101		109687.6	110901.2	1.1	20
2,4'-DDT [2C]	Ave	100	99.2		178339.3	176933.1	-0.8	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = Values outside of QC limits

# CONTINUING CALIBRATION CHECK

## 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>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-12091938.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9L09034</u>	Injection Date: <u>12/09/19</u>
Lab Sample ID: <u>9L09034-CCV5</u>	Injection Time: <u>22:10</u>

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	41.8		157140.6	131337.3	-16.4	20
4,4'-DDD [2C]	Ave	50.0	42.5		256213.9	217614	-15.1	20
4,4'-DDE	Ave	50.0	43.6		188529.8	164574.9	-12.7	20
4,4'-DDE [2C]	Ave	50.0	41.6		310677.4	258381	-16.8	20
4,4'-DDT	Ave	50.0	51.3		119560.1	122692.3	2.6	20
4,4'-DDT [2C]	XXX	50.0	49.7	-0.7				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12091939.D

Calibration Date: 08/26/19 15:54

Sequence: 9L09034

Injection Date: 12/09/19

Lab Sample ID: 9L09034-CCV6

Injection Time: 22:28

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	40.5		114125.1	92337.32	-19.1	20
2,4'-DDD [2C]	Ave	50.0	40.9		188863.5	154445.6	-18.2	20
2,4'-DDE	Ave	50.0	41.0		128261.1	105121.9	-18.0	20
2,4'-DDE [2C]	Ave	50.0	40.4		212138.1	171440.5	-19.2	20
2,4'-DDT	Ave	50.0	48.4		109687.6	106175.3	-3.2	20
2,4'-DDT [2C]	Ave	50.0	46.5		178339.3	165723.9	-7.1	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12101904.D

Calibration Date: 08/26/19 15:54

Sequence: 9L10037

Injection Date: 12/10/19

Lab Sample ID: 9L10037-CCV1

Injection Time: 12:25

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	47.3		157140.6	148517.3	-5.5	20
4,4'-DDD [2C]	Ave	50.0	45.3		256213.9	232244	-9.4	20
4,4'-DDE	Ave	50.0	46.0		188529.8	173303.7	-8.1	20
4,4'-DDE [2C]	Ave	50.0	44.6		310677.4	276895.6	-10.9	20
4,4'-DDT	Ave	50.0	53.5		119560.1	127990.9	7.1	20
4,4'-DDT [2C]	XXX	50.0	49.0	-2.0				20

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

\* = Values outside of QC limits

# CONTINUING CALIBRATION CHECK

## 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>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-12101905.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9L10037</u>	Injection Date: <u>12/10/19</u>
Lab Sample ID: <u>9L10037-CCV2</u>	Injection Time: <u>12:42</u>

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	43.6		114125.1	99588.26	-12.7	20
2,4'-DDD [2C]	Ave	50.0	41.8		188863.5	158052.3	-16.3	20
2,4'-DDE	Ave	50.0	42.2		128261.1	108295.2	-15.6	20
2,4'-DDE [2C]	Ave	50.0	44.1		212138.1	187201.6	-11.8	20
2,4'-DDT	Ave	50.0	49.4		109687.6	108297.4	-1.3	20
2,4'-DDT [2C]	Ave	50.0	44.0		178339.3	156838.3	-12.1	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12101919.D

Calibration Date: 08/26/19 15:54

Sequence: 9L10037

Injection Date: 12/10/19

Lab Sample ID: 9L10037-CCV3

Injection Time: 17:03

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	93.1		157140.6	146257.1	-6.9	20
4,4'-DDD [2C]	Ave	100	94.4		256213.9	241971.1	-5.6	20
4,4'-DDE	Ave	100	91.1		188529.8	171804	-8.9	20
4,4'-DDE [2C]	Ave	100	94.1		310677.4	292432.6	-5.9	20
4,4'-DDT	Ave	100	120		119560.1	143409.8	19.9	20
4,4'-DDT [2C]	XXX	100	105	5.4				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12101920.D

Calibration Date: 08/26/19 15:54

Sequence: 9L10037

Injection Date: 12/10/19

Lab Sample ID: 9L10037-CCV4

Injection Time: 17:21

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	88.1		114125.1	100528.9	-11.9	20
2,4'-DDD [2C]	Ave	100	88.5		188863.5	167122.9	-11.5	20
2,4'-DDE	Ave	100	85.5		128261.1	109688.8	-14.5	20
2,4'-DDE [2C]	Ave	100	92.9		212138.1	197141.1	-7.1	20
2,4'-DDT	Ave	100	108		109687.6	118105.4	7.7	20
2,4'-DDT [2C]	Ave	100	103		178339.3	182965	2.6	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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12101932.D

Calibration Date: 08/26/19 15:54

Sequence: 9L10037

Injection Date: 12/10/19

Lab Sample ID: 9L10037-CCV5

Injection Time: 20:47

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	44.0		157140.6	138273.8	-12.0	20
4,4'-DDD [2C]	Ave	50.0	45.7		256213.9	234077.6	-8.6	20
4,4'-DDE	Ave	50.0	44.7		188529.8	168490.3	-10.6	20
4,4'-DDE [2C]	Ave	50.0	45.7		310677.4	283957.6	-8.6	20
4,4'-DDT	Ave	50.0	55.7		119560.1	133176.9	11.4	20
4,4'-DDT [2C]	XXX	50.0	53.4	6.7				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12101933.D

Calibration Date: 08/26/19 15:54

Sequence: 9L10037

Injection Date: 12/10/19

Lab Sample ID: 9L10037-CCV6

Injection Time: 21:04

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	43.7		114125.1	99775.14	-12.6	20
2,4'-DDD [2C]	Ave	50.0	42.1		188863.5	159189.8	-15.7	20
2,4'-DDE	Ave	50.0	43.0		128261.1	110360.4	-14.0	20
2,4'-DDE [2C]	Ave	50.0	45.3		212138.1	192127.9	-9.4	20
2,4'-DDT	Ave	50.0	52.2		109687.6	114439.5	4.3	20
2,4'-DDT [2C]	Ave	50.0	50.4		178339.3	179744.5	0.8	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12121916.D

Calibration Date: 08/26/19 15:54

Sequence: 9L12029

Injection Date: 12/12/19

Lab Sample ID: 9L12029-CCV3

Injection Time: 15:42

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	110		157140.6	172633.1	9.9	20
4,4'-DDD [2C]	Ave	100	108		256213.9	277532.6	8.3	20
4,4'-DDE	Ave	100	106		188529.8	199887.6	6.0	20
4,4'-DDE [2C]	Ave	100	109		310677.4	340133.3	9.5	20
4,4'-DDT	Ave	100	110		119560.1	132056.8	10.5	20
4,4'-DDT [2C]	XXX	100	96.1	-3.9				20

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

\* = Values outside of QC limits



# CONTINUING CALIBRATION CHECK

## 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>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-12121917.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9L12029</u>	Injection Date: <u>12/12/19</u>
Lab Sample ID: <u>9L12029-CCV4</u>	Injection Time: <u>15:59</u>

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	101		114125.1	115768.7	1.4	20
2,4'-DDD [2C]	Ave	100	101		188863.5	191323.6	1.3	20
2,4'-DDE	Ave	100	100		128261.1	128432.6	0.1	20
2,4'-DDE [2C]	Ave	100	105		212138.1	223482.8	5.3	20
2,4'-DDT	Ave	100	102		109687.6	112087.2	2.2	20
2,4'-DDT [2C]	Ave	100	96.2		178339.3	171536.9	-3.8	20

\*\* Quadratic Curve fit may be weighted (1/a or 1/a<sup>2</sup>).

\* = 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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12121937.D

Calibration Date: 08/26/19 15:54

Sequence: 9L12029

Injection Date: 12/12/19

Lab Sample ID: 9L12029-CCV5

Injection Time: 22:16

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	40.9		157140.6	128461.9	-18.3	20
4,4'-DDD [2C]	Ave	50.0	43.5		256213.9	222876.4	-13.0	20
4,4'-DDE	Ave	50.0	41.9		188529.8	157952.9	-16.2	20
4,4'-DDE [2C]	Ave	50.0	42.6		310677.4	264521.2	-14.9	20
4,4'-DDT	Ave	50.0	51.0		119560.1	122040.9	2.1	20
4,4'-DDT [2C]	XXX	50.0	45.8	-8.4				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12121938.D

Calibration Date: 08/26/19 15:54

Sequence: 9L12029

Injection Date: 12/12/19

Lab Sample ID: 9L12029-CCV6

Injection Time: 22:33

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	40.9		114125.1	93359.18	-18.2	20
2,4'-DDD [2C]	Ave	50.0	41.3		188863.5	155878.8	-17.5	20
2,4'-DDE	Ave	50.0	39.7		128261.1	101941.5	-20.5*	20
2,4'-DDE [2C]	Ave	50.0	42.6		212138.1	180737.4	-14.8	20
2,4'-DDT	Ave	50.0	47.5		109687.6	104098.2	-5.1	20
2,4'-DDT [2C]	Ave	50.0	44.2		178339.3	157472.6	-11.7	20

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

\* = Values outside of QC limits

# CONTINUING CALIBRATION CHECK

## 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>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-12131904.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9L13033</u>	Injection Date: <u>12/13/19</u>
Lab Sample ID: <u>9L13033-CCV1</u>	Injection Time: <u>12:12</u>

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	42.6		157140.6	134009.9	-14.7	20
4,4'-DDD [2C]	Ave	50.0	43.3		256213.9	222032.6	-13.3	20
4,4'-DDE	Ave	50.0	43.6		188529.8	164283.3	-12.9	20
4,4'-DDE [2C]	Ave	50.0	44.4		310677.4	275856.2	-11.2	20
4,4'-DDT	Ave	50.0	52.0		119560.1	124356.4	4.0	20
4,4'-DDT [2C]	XXX	50.0	46.7	-6.6				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12131905.D

Calibration Date: 08/26/19 15:54

Sequence: 9L13033

Injection Date: 12/13/19

Lab Sample ID: 9L13033-CCV2

Injection Time: 12:29

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	41.7		114125.1	95289.6	-16.5	20
2,4'-DDD [2C]	Ave	50.0	42.5		188863.5	160642.8	-14.9	20
2,4'-DDE	Ave	50.0	40.7		128261.1	104503.4	-18.5	20
2,4'-DDE [2C]	Ave	50.0	44.5		212138.1	188775	-11.0	20
2,4'-DDT	Ave	50.0	47.4		109687.6	104061.7	-5.1	20
2,4'-DDT [2C]	Ave	50.0	43.8		178339.3	156055.2	-12.5	20

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

\* = Values outside of QC limits

# CONTINUING CALIBRATION CHECK

## 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>
Instrument ID: <u>DUALECD5</u>	Calibration: <u>A9H2608</u>
Lab File ID: <u>ECD5-12131924.D</u>	Calibration Date: <u>08/26/19 15:54</u>
Sequence: <u>9L13033</u>	Injection Date: <u>12/13/19</u>
Lab Sample ID: <u>9L13033-CCV3</u>	Injection Time: <u>18:20</u>

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	87.0		157140.6	136636.9	-13.0	20
4,4'-DDD [2C]	Ave	100	96.2		256213.9	246471.6	-3.8	20
4,4'-DDE	Ave	100	88.6		188529.8	167059.2	-11.4	20
4,4'-DDE [2C]	Ave	100	93.4		310677.4	290064.9	-6.6	20
4,4'-DDT	Ave	100	113		119560.1	135679.1	13.5	20
4,4'-DDT [2C]	XXX	100	106	6.2				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12131925.D

Calibration Date: 08/26/19 15:54

Sequence: 9L13033

Injection Date: 12/13/19

Lab Sample ID: 9L13033-CCV4

Injection Time: 18:37

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	85.6		114125.1	97741.75	-14.4	20
2,4'-DDD [2C]	Ave	100	91.1		188863.5	172066.4	-8.9	20
2,4'-DDE	Ave	100	84.3		128261.1	108143.4	-15.7	20
2,4'-DDE [2C]	Ave	100	92.3		212138.1	195830.7	-7.7	20
2,4'-DDT	Ave	100	109		109687.6	119680.4	9.1	20
2,4'-DDT [2C]	Ave	100	107		178339.3	190263.9	6.7	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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12131938.D

Calibration Date: 08/26/19 15:54

Sequence: 9L13033

Injection Date: 12/13/19

Lab Sample ID: 9L13033-CCV5

Injection Time: 22:34

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	38.1		157140.6	119823.7	-23.7*	20
4,4'-DDD [2C]	Ave	50.0	41.2		256213.9	210913.2	-17.7	20
4,4'-DDE	Ave	50.0	39.0		188529.8	146884.7	-22.1*	20
4,4'-DDE [2C]	Ave	50.0	39.0		310677.4	242321.8	-22.0*	20
4,4'-DDT	Ave	50.0	46.4		119560.1	110844.8	-7.3	20
4,4'-DDT [2C]	XXX	50.0	43.6	-12.9				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: DUALECD5

Calibration: A9H2608

Lab File ID: ECD5-12131939.D

Calibration Date: 08/26/19 15:54

Sequence: 9L13033

Injection Date: 12/13/19

Lab Sample ID: 9L13033-CCV6

Injection Time: 22:51

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	36.6		114125.1	83536	-26.8*	20
2,4'-DDD [2C]	Ave	50.0	39.5		188863.5	149036.8	-21.1*	20
2,4'-DDE	Ave	50.0	37.5		128261.1	96270.3	-24.9*	20
2,4'-DDE [2C]	Ave	50.0	40.7		212138.1	172858.4	-18.5	20
2,4'-DDT	Ave	50.0	45.2		109687.6	99265.58	-9.5	20
2,4'-DDT [2C]	Ave	50.0	44.1		178339.3	157238.1	-11.8	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>9H23034</u>	Instrument: <u>DUALECD5</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9H2608</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (9H23034-ICV1 )</b>			Lab File ID: ECD5-08231917.D		Analyzed: 08/23/19 16:26			
2,4,5,6-TCMX (Surr)	50.0	99	70 - 130	5.395	5.39525	-0.0003	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	99	70 - 130	5.989	5.98975	-0.0008	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	98	70 - 130	9.589	9.5925	-0.0035	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	96	70 - 130	10.539	10.54062	-0.0016	+/-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: 9L09034

Instrument: DUALECD5

Matrix: Soil

Calibration: A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L09034-CCV1)</b> Lab File ID: ECD5-12091906.D Analyzed: 12/09/19 12:33								
2,4,5,6-TCMX (Surr)	50.0	101	80 - 120	5.182	5.39525	-0.2132	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	97	80 - 120	5.772	5.98975	-0.2178	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	96	80 - 120	9.366	9.5925	-0.2265	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	110	80 - 120	10.278	10.54062	-0.2626	+/-1.0	
<b>Calibration Blank (9L09034-CCB1)</b> Lab File ID: ECD5-12091908.D Analyzed: 12/09/19 13:07								
2,4,5,6-TCMX (Surr) [2C]	100	103	42 - 129	5.772	5.98975	-0.2178	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	111	55 - 130	10.277	10.54062	-0.2636	+/-1.0	
<b>Blank (9120511-BLK1)</b> Lab File ID: ECD5-12091909.D Analyzed: 12/09/19 13:24								
2,4,5,6-TCMX (Surr) [2C]	45.5	63	42 - 129	5.772	5.98975	-0.2178	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	91	55 - 130	10.277	10.54062	-0.2636	+/-1.0	
<b>LCS (9120511-BS1)</b> Lab File ID: ECD5-12091910.D Analyzed: 12/09/19 13:41								
2,4,5,6-TCMX (Surr) [2C]	50.0	57	42 - 129	5.77	5.98975	-0.2198	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	94	55 - 130	10.275	10.54062	-0.2656	+/-1.0	
<b>Calibration Check (9L09034-CCV3)</b> Lab File ID: ECD5-12091919.D Analyzed: 12/09/19 16:16								
2,4,5,6-TCMX (Surr)	100	103	80 - 120	5.18	5.39525	-0.2153	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	102	80 - 120	5.77	5.98975	-0.2198	+/-1.0	
Decachlorobiphenyl (Surr)	100	99	80 - 120	9.364	9.5925	-0.2285	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	113	80 - 120	10.275	10.54062	-0.2656	+/-1.0	
<b>Calibration Blank (9L09034-CCB2)</b> Lab File ID: ECD5-12091921.D Analyzed: 12/09/19 16:51								
2,4,5,6-TCMX (Surr) [2C]	100	99	42 - 129	5.771	5.98975	-0.2188	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	112	55 - 130	10.276	10.54062	-0.2646	+/-1.0	
<b>PDI-013SC-A-03-04-190925 (A910890-04RE1)</b> Lab File ID: ECD5-12091930.D Analyzed: 12/09/19 19:39								
2,4,5,6-TCMX (Surr) [2C]	59.5	75	42 - 129	5.768	5.98975	-0.2218	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	59.5	113	55 - 130	10.27	10.54062	-0.2706	+/-1.0	
<b>Calibration Check (9L09034-CCV5)</b> Lab File ID: ECD5-12091938.D Analyzed: 12/09/19 22:10								
2,4,5,6-TCMX (Surr)	50.0	104	80 - 120	5.176	5.39525	-0.2193	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	89	80 - 120	5.767	5.98975	-0.2228	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	92	80 - 120	9.36	9.5925	-0.2325	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	115	80 - 120	10.269	10.54062	-0.2716	+/-1.0	
<b>Calibration Blank (9L09034-CCB3)</b> Lab File ID: ECD5-12091940.D Analyzed: 12/09/19 22:45								
2,4,5,6-TCMX (Surr) [2C]	100	104	42 - 129	5.766	5.98975	-0.2238	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	122	55 - 130	10.27	10.54062	-0.2706	+/-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: 9L10037

Instrument: DUALECD5

Matrix: Soil

Calibration: A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L10037-CCV1)</b> Lab File ID: ECD5-12101904.D Analyzed: 12/10/19 12:25								
2,4,5,6-TCMX (Surr)	50.0	100	80 - 120	5.177	5.39525	-0.2183	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	92	80 - 120	5.766	5.98975	-0.2238	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	80 - 120	9.36	9.5925	-0.2325	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	105	80 - 120	10.268	10.54062	-0.2726	+/-1.0	
<b>Calibration Blank (9L10037-CCB1)</b> Lab File ID: ECD5-12101906.D Analyzed: 12/10/19 12:59								
2,4,5,6-TCMX (Surr) [2C]	100	102	42 - 129	5.765	5.98975	-0.2248	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	113	55 - 130	10.268	10.54062	-0.2726	+/-1.0	
<b>PDI-013SC-A-02-03-190925 (A910890-03RE1)</b> Lab File ID: ECD5-12101907.D Analyzed: 12/10/19 13:16								
2,4,5,6-TCMX (Surr)	56.5	90	42 - 129	5.179	5.39525	-0.2163	+/-1.0	
Decachlorobiphenyl (Surr)	56.5	114	55 - 130	9.36	9.5925	-0.2325	+/-1.0	
<b>Calibration Check (9L10037-CCV3)</b> Lab File ID: ECD5-12101919.D Analyzed: 12/10/19 17:03								
2,4,5,6-TCMX (Surr)	100	100	80 - 120	5.171	5.39525	-0.2243	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	95	80 - 120	5.761	5.98975	-0.2288	+/-1.0	
Decachlorobiphenyl (Surr)	100	97	80 - 120	9.354	9.5925	-0.2385	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	118	80 - 120	10.264	10.54062	-0.2766	+/-1.0	
<b>Calibration Blank (9L10037-CCB2)</b> Lab File ID: ECD5-12101921.D Analyzed: 12/10/19 17:38								
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	5.76	5.98975	-0.2298	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	118	55 - 130	10.263	10.54062	-0.2776	+/-1.0	
<b>Calibration Check (9L10037-CCV5)</b> Lab File ID: ECD5-12101932.D Analyzed: 12/10/19 20:47								
2,4,5,6-TCMX (Surr)	50.0	101	80 - 120	5.171	5.39525	-0.2243	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	91	80 - 120	5.759	5.98975	-0.2308	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	80 - 120	9.355	9.5925	-0.2375	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	109	80 - 120	10.262	10.54062	-0.2786	+/-1.0	
<b>Calibration Blank (9L10037-CCB3)</b> Lab File ID: ECD5-12101934.D Analyzed: 12/10/19 21:21								
2,4,5,6-TCMX (Surr) [2C]	100	101	42 - 129	5.759	5.98975	-0.2308	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	118	55 - 130	10.261	10.54062	-0.2796	+/-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: 9L12029

Instrument: DUALECD5

Matrix: Water

Calibration: A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L12029-CCV3)</b>			Lab File ID: ECD5-12121916.D		Analyzed: 12/12/19 15:42			
2,4,5,6-TCMX (Surr)	100	107	80 - 120	5.157	5.39525	-0.2383	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	106	80 - 120	5.743	5.98975	-0.2468	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	106	80 - 120	5.743	5.98975	-0.2468	+/-1.0	
Decachlorobiphenyl (Surr)	100	96	80 - 120	9.341	9.5925	-0.2515	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	115	80 - 120	10.246	10.54062	-0.2946	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	115	80 - 120	10.246	10.54062	-0.2946	+/-1.0	
<b>Calibration Blank (9L12029-CCB3)</b>			Lab File ID: ECD5-12121918.D		Analyzed: 12/12/19 16:16			
2,4,5,6-TCMX (Surr) [2C]	100	111	25 - 140	5.744	5.98975	-0.2458	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	111	25 - 140	5.744	5.98975	-0.2458	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	116	30 - 135	10.245	10.54062	-0.2956	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	116	30 - 135	10.245	10.54062	-0.2956	+/-1.0	
<b>Blank (9120780-BLK1)</b>			Lab File ID: ECD5-12121925.D		Analyzed: 12/12/19 18:32			
2,4,5,6-TCMX (Surr) [2C]	45.5	61	42 - 129	5.742	5.98975	-0.2478	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	45.5	61	42 - 129	5.742	5.98975	-0.2478	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	105	55 - 130	10.243	10.54062	-0.2976	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	105	55 - 130	10.243	10.54062	-0.2976	+/-1.0	
<b>LCS (9120780-BS1)</b>			Lab File ID: ECD5-12121926.D		Analyzed: 12/12/19 18:50			
2,4,5,6-TCMX (Surr) [2C]	50.0	82	42 - 129	5.741	5.98975	-0.2488	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	82	42 - 129	5.741	5.98975	-0.2488	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	113	55 - 130	10.243	10.54062	-0.2976	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	113	55 - 130	10.243	10.54062	-0.2976	+/-1.0	
<b>Calibration Check (9L12029-CCV5)</b>			Lab File ID: ECD5-12121937.D		Analyzed: 12/12/19 22:16			
2,4,5,6-TCMX (Surr)	50.0	99	80 - 120	5.154	5.39525	-0.2413	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	87	80 - 120	5.741	5.98975	-0.2488	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	87	80 - 120	5.741	5.98975	-0.2488	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	96	80 - 120	9.338	9.5925	-0.2545	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	110	80 - 120	10.242	10.54062	-0.2986	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	110	80 - 120	10.242	10.54062	-0.2986	+/-1.0	
<b>Calibration Blank (9L12029-CCB4)</b>			Lab File ID: ECD5-12121939.D		Analyzed: 12/12/19 22:50			
2,4,5,6-TCMX (Surr) [2C]	100	103	25 - 140	5.74	5.98975	-0.2498	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	103	25 - 140	5.74	5.98975	-0.2498	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	118	30 - 135	10.243	10.54062	-0.2976	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	118	30 - 135	10.243	10.54062	-0.2976	+/-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: 9L13033

Instrument: DUALECD5

Matrix: Sediment

Calibration: A9H2608

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L13033-CCV1)</b> Lab File ID: ECD5-12131904.D Analyzed: 12/13/19 12:12								
2,4,5,6-TCMX (Surr)	50.0	100	80 - 120	5.156	5.39525	-0.2393	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	96	80 - 120	5.743	5.98975	-0.2468	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	80 - 120	9.341	9.5925	-0.2515	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	108	80 - 120	10.244	10.54062	-0.2966	+/-1.0	
<b>Calibration Blank (9L13033-CCB1)</b> Lab File ID: ECD5-12131906.D Analyzed: 12/13/19 12:46								
2,4,5,6-TCMX (Surr) [2C]	100	102	42 - 129	5.741	5.98975	-0.2488	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	116	55 - 130	10.242	10.54062	-0.2986	+/-1.0	
<b>PDI-018SC-A-06-07-190926 (A910890-17RE1)</b> Lab File ID: ECD5-12131907.D Analyzed: 12/13/19 13:04								
2,4,5,6-TCMX (Surr)	90.9	104	42 - 129	5.154	5.39525	-0.2413	+/-1.0	
Decachlorobiphenyl (Surr)	90.9	130	55 - 130	9.338	9.5925	-0.2545	+/-1.0	
<b>Matrix Spike (9120780-MS1)</b> Lab File ID: ECD5-12131909.D Analyzed: 12/13/19 13:41								
2,4,5,6-TCMX (Surr)	90.5	114	42 - 129	5.154	5.39525	-0.2413	+/-1.0	
Decachlorobiphenyl (Surr)	90.5	138	55 - 130	9.336	9.5925	-0.2565	+/-1.0	*
<b>Matrix Spike Dup (9120780-MSD1)</b> Lab File ID: ECD5-12131911.D Analyzed: 12/13/19 14:19								
2,4,5,6-TCMX (Surr)	91.1	108	42 - 129	5.153	5.39525	-0.2423	+/-1.0	
Decachlorobiphenyl (Surr)	91.1	124	55 - 130	9.336	9.5925	-0.2565	+/-1.0	
<b>PDI-018SC-A-07-08-190926 (A910890-18RE1)</b> Lab File ID: ECD5-12131913.D Analyzed: 12/13/19 14:57								
2,4,5,6-TCMX (Surr) [2C]	59.7	113	42 - 129	5.74	5.98975	-0.2498	+/-1.0	
Decachlorobiphenyl (Surr)	59.7	107	55 - 130	9.336	9.5925	-0.2565	+/-1.0	
<b>Calibration Check (9L13033-CCV3)</b> Lab File ID: ECD5-12131924.D Analyzed: 12/13/19 18:20								
2,4,5,6-TCMX (Surr)	100	101	80 - 120	5.152	5.39525	-0.2433	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	96	80 - 120	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr)	100	101	80 - 120	9.338	9.5925	-0.2545	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	113	80 - 120	10.24	10.54062	-0.3006	+/-1.0	
<b>Calibration Blank (9L13033-CCB2)</b> Lab File ID: ECD5-12131926.D Analyzed: 12/13/19 18:55								
2,4,5,6-TCMX (Surr) [2C]	100	99	42 - 129	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	121	55 - 130	10.241	10.54062	-0.2996	+/-1.0	
<b>Calibration Check (9L13033-CCV5)</b> Lab File ID: ECD5-12131938.D Analyzed: 12/13/19 22:34								
2,4,5,6-TCMX (Surr)	50.0	94	80 - 120	5.152	5.39525	-0.2433	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	81	80 - 120	5.739	5.98975	-0.2508	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	94	80 - 120	9.336	9.5925	-0.2565	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	109	80 - 120	10.238	10.54062	-0.3026	+/-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>9L13033</u>	Instrument: <u>DUALECD5</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9H2608</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Blank (9L13033-CCB3 )</b>			Lab File ID: ECD5-12131940.D		Analyzed: 12/13/19 23:08			
2,4,5,6-TCMX (Surr) [2C]	100	94	42 - 129	5.737	5.98975	-0.2528	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	115	55 - 130	10.239	10.54062	-0.3016	+/-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-013SC-A-02-03-190925	09/25/19 13:51	09/27/19 10:25	11/26/19 11:20	61.90	14.00	12/10/19 13:16	14.08	40.00	*
PDI-013SC-A-03-04-190925	09/25/19 13:51	09/27/19 10:25	11/26/19 11:20	61.90	14.00	12/09/19 19:39	13.35	40.00	*
PDI-018SC-A-06-07-190926	09/26/19 08:54	09/27/19 10:25	12/05/19 08:35	69.99	14.00	12/13/19 13:04	8.19	40.00	*
PDI-018SC-A-07-08-190926	09/26/19 08:54	09/27/19 10:25	12/05/19 08:35	69.99	14.00	12/13/19 14:57	8.27	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 C

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<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>PDI-013SC-A-02-03-190925</u>	<u>A9I0890-03</u>	<u>Sediment</u>
<u>PDI-013SC-A-03-04-190925</u>	<u>A9I0890-04</u>	<u>Sediment</u>
<u>PDI-018SC-A-06-07-190926</u>	<u>A9I0890-17</u>	<u>Sediment</u>
<u>PDI-018SC-A-07-08-190926</u>	<u>A9I0890-18</u>	<u>Sediment</u>

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:

1/21/2020 4:33PM

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-013SC-A-02-03-190925

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>A910890-03</u>	File ID: <u>N11261909.D</u>
Sampled: <u>09/25/19 13:51</u>	Prepared: <u>11/26/19 10:06</u>	Analyzed: <u>11/26/19 17:24</u>
Solids: <u>87.34</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.27 g / 5 mL</u>
Batch: <u>9111215</u>	Sequence: <u>9K26030</u>	Calibration: <u>A911001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	10000	220000	D
208-96-8	Acenaphthylene	10000	23100	JD
120-12-7	Anthracene	10000	102000	D
56-55-3	Benz(a)anthracene	10000	76700	D
50-32-8	Benzo(a)pyrene	10000	104000	D
205-99-2	Benzo(b)fluoranthene	10000	86700	D
207-08-9	Benzo(k)fluoranthene	10000	29100	D
191-24-2	Benzo(g,h,i)perylene	10000	79900	D
218-01-9	Chrysene	10000	94300	D
53-70-3	Dibenz(a,h)anthracene	10000	13900	U
206-44-0	Fluoranthene	10000	307000	D
86-73-7	Fluorene	10000	94600	D
193-39-5	Indeno(1,2,3-cd)pyrene	10000	68500	D
91-57-6	2-Methylnaphthalene	10000	20500	JD
91-20-3	Naphthalene	10000	13900	U
85-01-8	Phenanthrene	10000	545000	D
129-00-0	Pyrene	10000	325000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	55.7	0.00		44 - 115	D
p-Terphenyl-d14 (Surr)	55.7	0.00		54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	172869	7.784	176693	7.784	
Acenaphthene-d10 (ISTD)	105555	9.538	104958	9.538	
Phenanthrene-d10 (ISTD)	171321	11.042	170868	11.042	
Chrysene-d12 (ISTD)	153062	14.726	134797	14.732	
Perylene-d12 (ISTD)	151052	18.194	128221	18.194	
Dibenz(a,h)anthracene-d14 (ISTD)	132025	20.584	109858	20.584	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-013SC-A-03-04-190925

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>A9I0890-04</u>	File ID: <u>N11261910.D</u>
Sampled: <u>09/25/19 13:51</u>	Prepared: <u>11/26/19 10:06</u>	Analyzed: <u>11/26/19 17:56</u>
Solids: <u>79.42</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.35 g / 5 mL</u>
Batch: <u>9111215</u>	Sequence: <u>9K26030</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	8740	D
208-96-8	Acenaphthylene	1000	2300	JD
120-12-7	Anthracene	1000	1520	U
56-55-3	Benz(a)anthracene	1000	7550	D
50-32-8	Benzo(a)pyrene	1000	11000	D
205-99-2	Benzo(b)fluoranthene	1000	9230	D
207-08-9	Benzo(k)fluoranthene	1000	3350	D
191-24-2	Benzo(g,h,i)perylene	1000	8800	D
218-01-9	Chrysene	1000	8590	D
53-70-3	Dibenz(a,h)anthracene	1000	1520	U
206-44-0	Fluoranthene	1000	16700	D
86-73-7	Fluorene	1000	1520	U
193-39-5	Indeno(1,2,3-cd)pyrene	1000	7420	D
91-57-6	2-Methylnaphthalene	1000	1520	U
91-20-3	Naphthalene	1000	1520	U
85-01-8	Phenanthrene	1000	2550	JD
129-00-0	Pyrene	1000	36100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	60.8	53.5	88	44 - 115	D
p-Terphenyl-d14 (Surr)	60.8	74.2	122	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	163743	7.784	176693	7.784	
Acenaphthene-d10 (ISTD)	95985	9.539	104958	9.538	
Phenanthrene-d10 (ISTD)	143372	11.042	170868	11.042	
Chrysene-d12 (ISTD)	115785	14.732	134797	14.732	
Perylene-d12 (ISTD)	111335	18.194	128221	18.194	
Dibenz(a,h)anthracene-d14 (ISTD)	94114	20.584	109858	20.584	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-018SC-A-06-07-190926

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>A9I0890-17</u>	File ID: <u>N12041906.D</u>
Sampled: <u>09/26/19 08:54</u>	Prepared: <u>12/04/19 10:11</u>	Analyzed: <u>12/04/19 16:26</u>
Solids: <u>53.92</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.38 g / 5 mL</u>
Batch: <u>9120480</u>	Sequence: <u>9L04042</u>	Calibration: <u>A9I1001</u> Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	51300	D
208-96-8	Acenaphthylene	1000	8710	D
120-12-7	Anthracene	1000	45600	D
56-55-3	Benz(a)anthracene	1000	44600	D
50-32-8	Benzo(a)pyrene	1000	67300	D
205-99-2	Benzo(b)fluoranthene	1000	58600	D
207-08-9	Benzo(k)fluoranthene	1000	19600	D
191-24-2	Benzo(g,h,i)perylene	1000	53200	D
218-01-9	Chrysene	1000	58000	D
53-70-3	Dibenz(a,h)anthracene	1000	5540	D
206-44-0	Fluoranthene	1000	180000	D
86-73-7	Fluorene	1000	31500	D
193-39-5	Indeno(1,2,3-cd)pyrene	1000	45100	D
91-57-6	2-Methylnaphthalene	1000	46900	D
91-20-3	Naphthalene	1000	23600	D
85-01-8	Phenanthrene	1000	243000	D
129-00-0	Pyrene	1000	215000	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	89.3	98.3	110	44 - 115	D
p-Terphenyl-d14 (Surr)	89.3	175	196	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	166737	7.784	178988	7.784	
Acenaphthene-d10 (ISTD)	105695	9.539	112457	9.538	
Phenanthrene-d10 (ISTD)	178711	11.048	202757	11.048	
Chrysene-d12 (ISTD)	136439	14.732	179678	14.732	
Perylene-d12 (ISTD)	126907	18.194	175627	18.2	
Dibenz(a,h)anthracene-d14 (ISTD)	103203	20.584	152999	20.59	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8270D

PDI-018SC-A-07-08-190926

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>A9I0890-18</u>	File ID: <u>N12041909.D</u>
Sampled: <u>09/26/19 08:54</u>	Prepared: <u>12/04/19 10:11</u>	Analyzed: <u>12/04/19 18:03</u>
Solids: <u>77.99</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.17 g / 5 mL</u>
Batch: <u>9120480</u>	Sequence: <u>9L04042</u>	Calibration: <u>A9I1001</u>
		Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	1000	12200	D
208-96-8	Acenaphthylene	1000	1800	JD
120-12-7	Anthracene	1000	7980	D
56-55-3	Benz(a)anthracene	1000	10400	D
50-32-8	Benzo(a)pyrene	1000	14500	D
205-99-2	Benzo(b)fluoranthene	1000	12800	D
207-08-9	Benzo(k)fluoranthene	1000	4430	D
191-24-2	Benzo(g,h,i)perylene	1000	11400	D
218-01-9	Chrysene	1000	13600	D
53-70-3	Dibenz(a,h)anthracene	1000	1580	U
206-44-0	Fluoranthene	1000	41000	D
86-73-7	Fluorene	1000	6740	D
193-39-5	Indeno(1,2,3-cd)pyrene	1000	9890	D
91-57-6	2-Methylnaphthalene	1000	5990	D
91-20-3	Naphthalene	1000	3740	D
85-01-8	Phenanthrene	1000	45900	D
129-00-0	Pyrene	1000	52300	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	63.0	64.3	102	44 - 115	D
p-Terphenyl-d14 (Surr)	63.0	115	182	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	171291	7.784	178988	7.784	
Acenaphthene-d10 (ISTD)	108014	9.538	112457	9.538	
Phenanthrene-d10 (ISTD)	165546	11.042	202757	11.048	
Chrysene-d12 (ISTD)	122950	14.726	179678	14.732	
Perylene-d12 (ISTD)	115700	18.194	175627	18.2	
Dibenz(a,h)anthracene-d14 (ISTD)	96017	20.584	152999	20.59	

\* 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: 9111215

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9111215-BLK1	N11261904.D	11/26/19 10:06	
LCS	9111215-BS1	N11261905.D	11/26/19 10:06	
PDI-013SC-A-02-03-190925	A9I0890-03	N11261909.D	11/26/19 10:06	
PDI-013SC-A-03-04-190925	A9I0890-04	N11261910.D	11/26/19 10:06	

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.



# 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 Cc

Batch: 9120480

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120480-BLK1	N12041904.D	12/04/19 10:11	
LCS	9120480-BS1	N12041905.D	12/04/19 10:11	
PDI-018SC-A-06-07-190926 (MS)	9120480-MS1	N12041907.D	12/04/19 10:11	
PDI-018SC-A-06-07-190926 (MSD)	9120480-MSD1	N12041908.D	12/04/19 10:11	
PDI-018SC-A-06-07-190926	A9I0890-17	N12041906.D	12/04/19 10:11	
PDI-018SC-A-07-08-190926	A9I0890-18	N12041909.D	12/04/19 10:11	

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>9111215-BLK1</u>
Prepared: <u>11/26/19 10:06</u>	Preparation: <u>EPA 3546</u>
Analyzed: <u>11/26/19 14:42</u>	Instrument: <u>SV-GCMS14</u>
Batch: <u>9111215</u>	Sequence: <u>9K26030</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	40.3	89	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	44.8	98	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	171700	7.784	176693	7.784	
Acenaphthene-d10 (ISTD)	100280	9.539	104958	9.538	
Phenanthrene-d10 (ISTD)	154881	11.048	170868	11.042	
Chrysene-d12 (ISTD)	115436	14.732	134797	14.732	
Perylene-d12 (ISTD)	103339	18.2	128221	18.194	
Dibenz(a,h)anthracene-d14 (ISTD)	89187	20.59	109858	20.584	

# 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>9120480-BLK1</u>	File ID: <u>N12041904.D</u>
Prepared: <u>12/04/19 10:11</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 5 mL</u>
Analyzed: <u>12/04/19 15:21</u>	Instrument: <u>SV-GCMS14</u>	
Batch: <u>9120480</u>	Sequence: <u>9L04042</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	39.5	87	44 - 115	
p-Terphenyl-d14 (Surr)	45.5	43.1	95	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	169208	7.784	178988	7.784	
Acenaphthene-d10 (ISTD)	103829	9.538	112457	9.538	
Phenanthrene-d10 (ISTD)	160887	11.042	202757	11.048	
Chrysene-d12 (ISTD)	124248	14.726	179678	14.732	
Perylene-d12 (ISTD)	114157	18.194	175627	18.2	
Dibenz(a,h)anthracene-d14 (ISTD)	100580	20.584	152999	20.59	

# 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: 9111215

Laboratory ID: 9111215-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	16.9	85	40 - 122
Acenaphthylene	20.0	15.6	78	32 - 132
Anthracene	20.0	16.2	81	47 - 123
Benz(a)anthracene	20.0	17.3	87	49 - 126
Benzo(a)pyrene	20.0	18.4	92	45 - 129
Benzo(b)fluoranthene	20.0	18.2	91	45 - 132
Benzo(k)fluoranthene	20.0	18.4	92	47 - 132
Benzo(g,h,i)perylene	20.0	17.6	88	43 - 134
Chrysene	20.0	18.6	93	50 - 124
Dibenz(a,h)anthracene	20.0	17.0	85	45 - 134
Fluoranthene	20.0	19.4	97	50 - 127
Fluorene	20.0	15.5	77	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.3	87	45 - 133
2-Methylnaphthalene	20.0	14.0	70	38 - 122
Naphthalene	20.0	17.0	85	35 - 123
Phenanthrene	20.0	18.4	92	50 - 121
Pyrene	20.0	21.7	108	47 - 127

\* = Values outside of QC limits

# 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: 9120480

Laboratory ID: 9120480-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	16.8	84	40 - 122
Acenaphthylene	20.0	15.9	80	32 - 132
Anthracene	20.0	16.6	83	47 - 123
Benz(a)anthracene	20.0	16.7	84	49 - 126
Benzo(a)pyrene	20.0	18.2	91	45 - 129
Benzo(b)fluoranthene	20.0	18.0	90	45 - 132
Benzo(k)fluoranthene	20.0	17.7	88	47 - 132
Benzo(g,h,i)perylene	20.0	16.5	83	43 - 134
Chrysene	20.0	17.6	88	50 - 124
Dibenz(a,h)anthracene	20.0	17.0	85	45 - 134
Fluoranthene	20.0	17.7	89	50 - 127
Fluorene	20.0	16.1	81	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	16.4	82	45 - 133
2-Methylnaphthalene	20.0	15.4	77	38 - 122
Naphthalene	20.0	17.5	87	35 - 123
Phenanthrene	20.0	17.4	87	50 - 121
Pyrene	20.0	16.9	84	47 - 127

\* = Values outside of QC limits

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

**PDI-018SC-A-06-07-190926**

**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: 9120480

Laboratory ID: 9120480-MS1

Preparation: EPA 3546

Initial/Final: 10.45 g / 5 mL

Source Sample Name: PDI-018SC-A-06-07-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	MS CONCENTRATION (ug/kg dry)	MS % REC. (*=Out)	QC LIMITS REC.
Acenaphthene	35.5	51300	45600	-15800 *	40 - 122
Acenaphthylene	35.5	8710	6170	-7160 *	32 - 132
Anthracene	35.5	45600	40700	-13600 *	47 - 123
Benz(a)anthracene	35.5	44600	38000	-18400 *	49 - 126
Benzo(a)pyrene	35.5	67300	59000	-23300 *	45 - 129
Benzo(b)fluoranthene	35.5	58600	49800	-24900 *	45 - 132
Benzo(k)fluoranthene	35.5	19600	16900	-7870 *	47 - 132
Benzo(g,h,i)perylene	35.5	53200	45900	-20600 *	43 - 134
Chrysene	35.5	58000	50700	-20600 *	50 - 124
Dibenz(a,h)anthracene	35.5	5540	4900	-1780 *	45 - 134
Fluoranthene	35.5	180000	154000	-73900 *	50 - 127
Fluorene	35.5	31500	28300	-9020 *	43 - 125
Indeno(1,2,3-cd)pyrene	35.5	45100	39200	-16500 *	45 - 133
2-Methylnaphthalene	35.5	46900	44200	-7750 *	38 - 122
Naphthalene	35.5	23600	20000	-10300 *	35 - 123
Phenanthrene	35.5	243000	211000	-92100 *	50 - 121
Pyrene	35.5	215000	166000	-136000 *	47 - 127

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY**

**PDI-018SC-A-06-07-190926**

**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: 9120480

Laboratory ID: 9120480-MSD1

Preparation: EPA 3546

Initial/Final: 10.49 g / 5 mL

Source Sample Name: PDI-018SC-A-06-07-190926

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	MSD % RECOVERY	% RPD	QC LIMITS	
					RPD	REC.
Acenaphthene	35.4	51500	690 *	12	30	40 - 122
Acenaphthylene	35.4	5910	-7930 *	4	30	32 - 132
Anthracene	35.4	41400	-11600 *	2	30	47 - 123
Benz(a)anthracene	35.4	38900	-16000 *	2	30	49 - 126
Benzo(a)pyrene	35.4	59300	-22600 *	0.5	30	45 - 129
Benzo(b)fluoranthene	35.4	50700	-22300 *	2	30	45 - 132
Benzo(k)fluoranthene	35.4	17300	-6690 *	3	30	47 - 132
Benzo(g,h,i)perylene	35.4	46500	-19000 *	1	30	43 - 134
Chrysene	35.4	51600	-18000 *	2	30	50 - 124
Dibenz(a,h)anthracene	35.4	4720	-2300 *	4	30	45 - 134
Fluoranthene	35.4	159000	-59100 *	3	30	50 - 127
Fluorene	35.4	31200	-901 *	10	30	43 - 125
Indeno(1,2,3-cd)pyrene	35.4	39800	-15000 *	1	30	45 - 133
2-Methylnaphthalene	35.4	51600	13100 *	15	30	38 - 122
Naphthalene	35.4	23100	-1370 *	15	30	35 - 123
Phenanthrene	35.4	222000	-59900 *	5	30	50 - 121
Pyrene	35.4	180000	-97200 *	8	30	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: 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.



# 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: 9K26030

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9K26030-TUN1	N11261901.D	11/26/19 13:10
Calibration Check	9K26030-CCV1	N11261902.D	11/26/19 13:38
Calibration Blank	9K26030-CCB1	N11261903.D	11/26/19 14:10
Blank	9111215-BLK1	N11261904.D	11/26/19 14:42
LCS	9111215-BS1	N11261905.D	11/26/19 15:15
PDI-013SC-A-02-03-190925	A9I0890-03	N11261909.D	11/26/19 17:24
PDI-013SC-A-03-04-190925	A9I0890-04	N11261910.D	11/26/19 17:56

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: 9L04042

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	9L04042-TUN1	N12041901.D	12/04/19 13:48
Calibration Check	9L04042-CCV1	N12041902.D	12/04/19 14:16
Calibration Blank	9L04042-CCB1	N12041903.D	12/04/19 14:48
Blank	9120480-BLK1	N12041904.D	12/04/19 15:21
LCS	9120480-BS1	N12041905.D	12/04/19 15:53
PDI-018SC-A-06-07-190926	A9I0890-17	N12041906.D	12/04/19 16:26
PDI-018SC-A-06-07-190926 (MS)	9120480-MS1	N12041907.D	12/04/19 16:58
PDI-018SC-A-06-07-190926 (MSD)	9120480-MSD1	N12041908.D	12/04/19 17:31
PDI-018SC-A-07-08-190926	A9I0890-18	N12041909.D	12/04/19 18:03

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 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

# 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: N11261901.D

Injection Date: 11/26/19

Instrument ID: SV-GCMS14

Injection Time: 13:10

Sequence: 9K26030

Lab Sample ID: 9K26030-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.62	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.48	PASS
m/z 197	Less than 2% of m/z 198	0.56	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	3.76	PASS
m/z 441	Less than 150% of m/z 443	76.64	PASS
m/z 442	0.1 - 200% of m/z 198	122.45	PASS
m/z 443	15 - 24% of m/z 442	19.62	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: N12041901.D

Injection Date: 12/04/19

Instrument ID: SV-GCMS14

Injection Time: 13:48

Sequence: 9L04042

Lab Sample ID: 9L04042-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.83	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.53	PASS
m/z 197	Less than 2% of m/z 198	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.77	PASS
m/z 365	1 - 100% of m/z 198	4.09	PASS
m/z 441	Less than 150% of m/z 443	77.71	PASS
m/z 442	0.1 - 200% of m/z 198	137.86	PASS
m/z 443	15 - 24% of m/z 442	19.36	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/a<sup>2</sup>) used. Weighting not shown here. Please see instrument calibration printouts for validation.

# INITIAL CALIBRATION DATA

## 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

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: A911001

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: N11261902.D

Calibration Date: 09/10/19 10:37

Sequence: 9K26030

Injection Date: 11/26/19

Lab Sample ID: 9K26030-CCV1

Injection Time: 13:38

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	47.9		1.421956	1.362945	-4.1	20
Acenaphthylene	Ave	50.0	45.9		2.170985	1.992797	-8.2	20
Anthracene	Ave	50.0	45.9		1.088444	0.99897	-8.2	20
Benz(a)anthracene	Ave	50.0	45.4		1.161023	1.053703	-9.2	20
Benzo(a)pyrene	Ave	50.0	48.4		0.9876419	0.9554753	-3.3	20
Benzo(b)fluoranthene	Ave	50.0	47.1		1.153887	1.086608	-5.8	20
Benzo(k)fluoranthene	Ave	50.0	47.3		1.136093	1.074707	-5.4	20
Benzo(g,h,i)perylene	Ave	50.0	45.2		1.308305	1.181562	-9.7	20
Chrysene	Ave	50.0	46.8		1.098706	1.027293	-6.5	20
Dibenz(a,h)anthracene	Ave	50.0	47.3		1.158853	1.095232	-5.5	20
Fluoranthene	Ave	50.0	48.3		1.178979	1.13916	-3.4	20
Fluorene	Ave	50.0	45.4		1.455085	1.320261	-9.3	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	44.5		1.233305	1.0988	-10.9	20
2-Methylnaphthalene	Ave	50.0	39.8		0.9346173	0.743459	-20.5*	20
Naphthalene	Ave	50.0	48.3		1.102926	1.064717	-3.5	20
Phenanthrene	Ave	50.0	48.1		1.170171	1.12598	-3.8	20
Pyrene	Ave	50.0	47.9		1.562337	1.496398	-4.2	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: N12041902.D

Calibration Date: 09/10/19 10:37

Sequence: 9L04042

Injection Date: 12/04/19

Lab Sample ID: 9L04042-CCV1

Injection Time: 14:16

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	47.9		1.421956	1.361391	-4.3	20
Acenaphthylene	Ave	50.0	46.7		2.170985	2.027299	-6.6	20
Anthracene	Ave	50.0	47.7		1.088444	1.037981	-4.6	20
Benz(a)anthracene	Ave	50.0	46.1		1.161023	1.069435	-7.9	20
Benzo(a)pyrene	Ave	50.0	50.3		0.9876419	0.9930933	0.6	20
Benzo(b)fluoranthene	Ave	50.0	48.9		1.153887	1.129473	-2.1	20
Benzo(k)fluoranthene	Ave	50.0	48.3		1.136093	1.096346	-3.5	20
Benzo(g,h,i)perylene	Ave	50.0	45.2		1.308305	1.18321	-9.6	20
Chrysene	Ave	50.0	46.1		1.098706	1.012934	-7.8	20
Dibenz(a,h)anthracene	Ave	50.0	49.7		1.158853	1.151916	-0.6	20
Fluoranthene	Ave	50.0	49.9		1.178979	1.177104	-0.2	20
Fluorene	Ave	50.0	48.6		1.455085	1.41487	-2.8	20
Indeno(1,2,3-cd)pyrene	Ave	50.0	45.9		1.233305	1.130975	-8.3	20
2-Methylnaphthalene	Ave	50.0	42.9		0.9346173	0.8026683	-14.1	20
Naphthalene	Ave	50.0	48.6		1.102926	1.072318	-2.8	20
Phenanthrene	Ave	50.0	47.8		1.170171	1.119005	-4.4	20
Pyrene	Ave	50.0	43.9		1.562337	1.372099	-12.2	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>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
<b>Initial Cal Check (9I06028-ICV1)</b>			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	

# SURROGATE STANDARD RECOVERY 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: 9K26030

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9K26030-CCV1)</b>			Lab File ID: N11261902.D		Analyzed: 11/26/19 13:38			
2-Fluorobiphenyl (Surr)	50.0	104	80 - 120	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	94	80 - 120	12.797	12.9315	-0.1345	+/-1.0	
<b>Calibration Blank (9K26030-CCB1)</b>			Lab File ID: N11261903.D		Analyzed: 11/26/19 14:10			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.803	12.9315	-0.1285	+/-1.0	
<b>Blank (9111215-BLK1)</b>			Lab File ID: N11261904.D		Analyzed: 11/26/19 14:42			
2-Fluorobiphenyl (Surr)	45.5	89	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	98	54 - 127	12.803	12.9315	-0.1285	+/-1.0	
<b>LCS (9111215-BS1)</b>			Lab File ID: N11261905.D		Analyzed: 11/26/19 15:15			
2-Fluorobiphenyl (Surr)	50.0	89	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	94	54 - 127	12.797	12.9315	-0.1345	+/-1.0	
<b>PDI-013SC-A-02-03-190925 (A9I0890-03)</b>			Lab File ID: N11261909.D		Analyzed: 11/26/19 17:24			
2-Fluorobiphenyl (Surr)	55.7		44 - 115	0	8.9523	-8.9523	+/-1.0	*
p-Terphenyl-d14 (Surr)	55.7		54 - 127	0	12.9315	-12.9315	+/-1.0	*
<b>PDI-013SC-A-03-04-190925 (A9I0890-04)</b>			Lab File ID: N11261910.D		Analyzed: 11/26/19 17:56			
2-Fluorobiphenyl (Surr)	60.8	88	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	60.8	122	54 - 127	12.797	12.9315	-0.1345	+/-1.0	

# SURROGATE STANDARD RECOVERY 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: 9L04042

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L04042-CCV1)</b>			Lab File ID: N12041902.D		Analyzed: 12/04/19 14:16			
2-Fluorobiphenyl (Surr)	50.0	104	80 - 120	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	94	80 - 120	12.797	12.9315	-0.1345	+/-1.0	
<b>Calibration Blank (9L04042-CCB1)</b>			Lab File ID: N12041903.D		Analyzed: 12/04/19 14:48			
2-Fluorobiphenyl (Surr)			44 - 115	0	8.9523	-8.9523	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	0	12.9315	-12.9315	+/-1.0	
<b>Blank (9120480-BLK1)</b>			Lab File ID: N12041904.D		Analyzed: 12/04/19 15:21			
2-Fluorobiphenyl (Surr)	45.5	87	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	95	54 - 127	12.797	12.9315	-0.1345	+/-1.0	
<b>LCS (9120480-BS1)</b>			Lab File ID: N12041905.D		Analyzed: 12/04/19 15:53			
2-Fluorobiphenyl (Surr)	50.0	90	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	90	54 - 127	12.797	12.9315	-0.1345	+/-1.0	
<b>PDI-018SC-A-06-07-190926 (A9I0890-17)</b>			Lab File ID: N12041906.D		Analyzed: 12/04/19 16:26			
2-Fluorobiphenyl (Surr)	89.3	110	44 - 115	8.851	8.9523	-0.1013	+/-1.0	
p-Terphenyl-d14 (Surr)	89.3	196	54 - 127	12.797	12.9315	-0.1345	+/-1.0	*
<b>Matrix Spike (9120480-MS1)</b>			Lab File ID: N12041907.D		Analyzed: 12/04/19 16:58			
2-Fluorobiphenyl (Surr)	88.7	125	44 - 115	8.851	8.9523	-0.1013	+/-1.0	*
p-Terphenyl-d14 (Surr)	88.7	194	54 - 127	12.797	12.9315	-0.1345	+/-1.0	*
<b>Matrix Spike Dup (9120480-MSD1)</b>			Lab File ID: N12041908.D		Analyzed: 12/04/19 17:31			
2-Fluorobiphenyl (Surr)	88.4	145	44 - 115	8.851	8.9523	-0.1013	+/-1.0	*
p-Terphenyl-d14 (Surr)	88.4	182	54 - 127	12.797	12.9315	-0.1345	+/-1.0	*
<b>PDI-018SC-A-07-08-190926 (A9I0890-18)</b>			Lab File ID: N12041909.D		Analyzed: 12/04/19 18:03			
2-Fluorobiphenyl (Surr)	63.0	102	44 - 115	8.857	8.9523	-0.0953	+/-1.0	
p-Terphenyl-d14 (Surr)	63.0	182	54 - 127	12.797	12.9315	-0.1345	+/-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: 9K26030

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9K26030-CCV1 )</b>			Lab File ID: N11261902.D			Analyzed: 11/26/19 13:38			
Naphthalene-d8 (ISTD)	176693	7.784	148351	7.883	119	50 - 200	-0.0990	+/-0.50	
Acenaphthene-d10 (ISTD)	104958	9.538	117951	9.638	89	50 - 200	-0.1000	+/-0.50	
Phenanthrene-d10 (ISTD)	170868	11.042	219661	11.147	78	50 - 200	-0.1050	+/-0.50	
Chrysene-d12 (ISTD)	134797	14.732	169841	14.907	79	50 - 200	-0.1750	+/-0.50	
Perylene-d12 (ISTD)	128221	18.194	142416	18.375	90	50 - 200	-0.1810	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	109858	20.584	93265	20.765	118	50 - 200	-0.1810	+/-0.50	
<b>Calibration Blank (9K26030-CCB1 )</b>			Lab File ID: N11261903.D			Analyzed: 11/26/19 14:10			
Naphthalene-d8 (ISTD)	160482	7.784	176693	7.784	91	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	93543	9.539	104958	9.538	89	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	131601	11.042	170868	11.042	77	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	96465	14.732	134797	14.732	72	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	90843	18.2	128221	18.194	71	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	78035	20.584	109858	20.584	71	50 - 200	0.0000	+/-0.50	
<b>Blank (9111215-BLK1 )</b>			Lab File ID: N11261904.D			Analyzed: 11/26/19 14:42			
Naphthalene-d8 (ISTD)	171700	7.784	176693	7.784	97	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	100280	9.539	104958	9.538	96	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	154881	11.048	170868	11.042	91	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (ISTD)	115436	14.732	134797	14.732	86	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	103339	18.2	128221	18.194	81	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	89187	20.59	109858	20.584	81	50 - 200	0.0060	+/-0.50	
<b>LCS (9111215-BS1 )</b>			Lab File ID: N11261905.D			Analyzed: 11/26/19 15:15			
Naphthalene-d8 (ISTD)	179760	7.784	176693	7.784	102	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	107744	9.538	104958	9.538	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	168664	11.048	170868	11.042	99	50 - 200	0.0060	+/-0.50	
Chrysene-d12 (ISTD)	120426	14.732	134797	14.732	89	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	110197	18.2	128221	18.194	86	50 - 200	0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	95679	20.584	109858	20.584	87	50 - 200	0.0000	+/-0.50	
<b>Matrix Spike (9111215-MS1 )</b>			Lab File ID: N11261907.D			Analyzed: 11/26/19 16:19			
Naphthalene-d8 (ISTD)	174114	7.784	176693	7.784	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	105276	9.539	104958	9.538	100	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	170606	11.042	170868	11.042	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	137782	14.732	134797	14.732	102	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	132607	18.194	128221	18.194	103	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	108651	20.584	109858	20.584	99	50 - 200	0.0000	+/-0.50	

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

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 9K26030  
 Matrix: Sediment

SDG: Gasco PreRD\_DG 2019  
 Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co  
 Instrument: SV-GCMS14  
 Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Matrix Spike Dup (9111215-MSD1)</b>			Lab File ID: N11261908.D			Analyzed: 11/26/19 16:52			
Naphthalene-d8 (ISTD)	172455	7.784	176693	7.784	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	104373	9.538	104958	9.538	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	167412	11.042	170868	11.042	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	144351	14.732	134797	14.732	107	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	141138	18.194	128221	18.194	110	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	119599	20.584	109858	20.584	109	50 - 200	0.0000	+/-0.50	
<b>PDI-013SC-A-02-03-190925 (A9I0890-03)</b>			Lab File ID: N11261909.D			Analyzed: 11/26/19 17:24			
Naphthalene-d8 (ISTD)	172869	7.784	176693	7.784	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	105555	9.538	104958	9.538	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	171321	11.042	170868	11.042	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	153062	14.726	134797	14.732	114	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	151052	18.194	128221	18.194	118	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	132025	20.584	109858	20.584	120	50 - 200	0.0000	+/-0.50	
<b>PDI-013SC-A-03-04-190925 (A9I0890-04)</b>			Lab File ID: N11261910.D			Analyzed: 11/26/19 17:56			
Naphthalene-d8 (ISTD)	163743	7.784	176693	7.784	93	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	95985	9.539	104958	9.538	91	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	143372	11.042	170868	11.042	84	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	115785	14.732	134797	14.732	86	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	111335	18.194	128221	18.194	87	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	94114	20.584	109858	20.584	86	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 C

Sequence: 9L04042

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (9L04042-CCV1 )</b>			Lab File ID: N12041902.D			Analyzed: 12/04/19 14:16			
Naphthalene-d8 (ISTD)	178988	7.784	148351	7.883	121	50 - 200	-0.0990	+/-0.50	
Acenaphthene-d10 (ISTD)	112457	9.538	117951	9.638	95	50 - 200	-0.1000	+/-0.50	
Phenanthrene-d10 (ISTD)	202757	11.048	219661	11.147	92	50 - 200	-0.0990	+/-0.50	
Chrysene-d12 (ISTD)	179678	14.732	169841	14.907	106	50 - 200	-0.1750	+/-0.50	
Perylene-d12 (ISTD)	175627	18.2	142416	18.375	123	50 - 200	-0.1750	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	152999	20.59	93265	20.765	164	50 - 200	-0.1750	+/-0.50	
<b>Calibration Blank (9L04042-CCB1 )</b>			Lab File ID: N12041903.D			Analyzed: 12/04/19 14:48			
Naphthalene-d8 (ISTD)	175268	7.784	178988	7.784	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	100979	9.539	112457	9.538	90	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	142533	11.042	202757	11.048	70	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	98609	14.726	179678	14.732	55	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	94371	18.194	175627	18.2	54	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	81259	20.584	152999	20.59	53	50 - 200	-0.0060	+/-0.50	
<b>Blank (9120480-BLK1 )</b>			Lab File ID: N12041904.D			Analyzed: 12/04/19 15:21			
Naphthalene-d8 (ISTD)	169208	7.784	178988	7.784	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	103829	9.538	112457	9.538	92	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	160887	11.042	202757	11.048	79	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	124248	14.726	179678	14.732	69	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	114157	18.194	175627	18.2	65	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	100580	20.584	152999	20.59	66	50 - 200	-0.0060	+/-0.50	
<b>LCS (9120480-BS1 )</b>			Lab File ID: N12041905.D			Analyzed: 12/04/19 15:53			
Naphthalene-d8 (ISTD)	173408	7.784	178988	7.784	97	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	112058	9.539	112457	9.538	100	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	186301	11.042	202757	11.048	92	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	153877	14.732	179678	14.732	86	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	145524	18.194	175627	18.2	83	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	130668	20.584	152999	20.59	85	50 - 200	-0.0060	+/-0.50	
<b>PDI-018SC-A-06-07-190926 (A9I0890-17 )</b>			Lab File ID: N12041906.D			Analyzed: 12/04/19 16:26			
Naphthalene-d8 (ISTD)	166737	7.784	178988	7.784	93	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	105695	9.539	112457	9.538	94	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10 (ISTD)	178711	11.048	202757	11.048	88	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	136439	14.732	179678	14.732	76	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	126907	18.194	175627	18.2	72	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	103203	20.584	152999	20.59	67	50 - 200	-0.0060	+/-0.50	

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

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 9L04042  
 Matrix: Sediment

SDG: Gasco PreRD\_DG 2019  
 Project: Gasco PreRD DG 2019 - 4a-b. DOC-CAP Testing Co  
 Instrument: SV-GCMS14  
 Calibration: A9I1001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Matrix Spike (9120480-MS1)</b>			Lab File ID: N12041907.D			Analyzed: 12/04/19 16:58			
Naphthalene-d8 (ISTD)	177180	7.784	178988	7.784	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	114467	9.538	112457	9.538	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	192148	11.042	202757	11.048	95	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	160110	14.726	179678	14.732	89	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	153458	18.194	175627	18.2	87	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	128085	20.584	152999	20.59	84	50 - 200	-0.0060	+/-0.50	
<b>Matrix Spike Dup (9120480-MSD1)</b>			Lab File ID: N12041908.D			Analyzed: 12/04/19 17:31			
Naphthalene-d8 (ISTD)	173743	7.784	178988	7.784	97	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	114557	9.538	112457	9.538	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	196250	11.042	202757	11.048	97	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	157855	14.726	179678	14.732	88	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	151917	18.194	175627	18.2	86	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	124987	20.584	152999	20.59	82	50 - 200	-0.0060	+/-0.50	
<b>PDI-018SC-A-07-08-190926 (A9I0890-18)</b>			Lab File ID: N12041909.D			Analyzed: 12/04/19 18:03			
Naphthalene-d8 (ISTD)	171291	7.784	178988	7.784	96	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	108014	9.538	112457	9.538	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	165546	11.042	202757	11.048	82	50 - 200	-0.0060	+/-0.50	
Chrysene-d12 (ISTD)	122950	14.726	179678	14.732	68	50 - 200	-0.0060	+/-0.50	
Perylene-d12 (ISTD)	115700	18.194	175627	18.2	66	50 - 200	-0.0060	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	96017	20.584	152999	20.59	63	50 - 200	-0.0060	+/-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-013SC-A-02-03-190925	09/25/19 13:51	09/27/19 10:25	11/26/19 10:06	61.84	14.00	11/26/19 17:24	0.30	40.00	*
PDI-013SC-A-03-04-190925	09/25/19 13:51	09/27/19 10:25	11/26/19 10:06	61.84	14.00	11/26/19 17:56	0.33	40.00	*
PDI-018SC-A-06-07-190926	09/26/19 08:54	09/27/19 10:25	12/04/19 10:11	69.05	14.00	12/04/19 16:26	0.26	40.00	*
PDI-018SC-A-07-08-190926	09/26/19 08:54	09/27/19 10:25	12/04/19 10:11	69.05	14.00	12/04/19 18:03	0.33	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

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<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>PDI-013SC-A-02-03-190925</u>	<u>A9I0890-03</u>	<u>Sediment</u>
<u>PDI-013SC-A-03-04-190925</u>	<u>A9I0890-04</u>	<u>Sediment</u>
<u>PDI-018SC-A-06-07-190926</u>	<u>A9I0890-17</u>	<u>Sediment</u>
<u>PDI-018SC-A-07-08-190926</u>	<u>A9I0890-18</u>	<u>Sediment</u>

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: \_\_\_\_\_

1/21/2020 4:33PM

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

<b>Analyte</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>
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 .

# 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:** Solid

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-013SC-A-02-03-190925

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: A9I0890-03

File ID: 9L03043.txt-007

Sampled: 09/25/19 13:51

Prepared: 11/27/19 08:40

Analyzed: 12/03/19 18:33

Solids: 87.34

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9111270

Sequence: 9L03043

Calibration: A9K2205

Instrument: TOC6

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	1.2	1		SM 5310 B MOD



# INORGANIC ANALYSIS DATA SHEET

SM 5310 B MOD

PDI-018SC-A-06-07-190926

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: A9I0890-17

Sampled: 09/26/19 08:54

Prepared: 12/05/19 11:39

Analyzed: 12/12/19 11:41

Solids: 53.92

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9120591

Sequence: 9L12028

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	5.6	1	E	SM 5310 B MOD

# INORGANIC ANALYSIS DATA SHEET

**SM 5310 B MOD**

PDI-018SC-A-07-08-190926
--------------------------

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: A9I0890-18

Sampled: 09/26/19 08:54

Prepared: 12/05/19 11:39

Analyzed: 12/12/19 13:00

Solids: 77.99

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

Batch: 9120591

Sequence: 9L12028

Calibration: A8B0203

Instrument: TOC

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	0.86	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: 9111270 Batch Matrix: Solid

Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9111270-BLK1	9L03043.txt-005	11/27/19 08:40	
LCS	9111270-BS1	9L03043.txt-006	11/27/19 08:40	
PDI-013SC-A-02-03-190925 (Dup)	9111270-DUP1	9L03043.txt-008	11/27/19 08:40	
PDI-013SC-A-02-03-190925	A9I0890-03	9L03043.txt-007	11/27/19 08:40	
PDI-013SC-A-03-04-190925	A9I0890-04	9L03043.txt-009	11/27/19 08:40	

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.

# 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: 9120591 Batch Matrix: Soil

Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	9120591-BLK1		12/05/19 11:39	
LCS	9120591-BS1		12/05/19 11:39	
PDI-018SC-A-06-07-190926 (Dup)	9120591-DUP1		12/05/19 11:39	
PDI-018SC-A-06-07-190926	A9I0890-17		12/05/19 11:39	
PDI-018SC-A-07-08-190926	A9I0890-18		12/05/19 11:39	

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>Solid</u>	Laboratory ID: <u>9111270-BLK1</u>	File ID: <u>9L03043.txt-005</u>
Prepared: <u>11/27/19 08:40</u>	Preparation: <u>PSEP-5310B TOC</u>	Initial/Final: <u>5 N/A / 5 N/A</u>
Analyzed: <u>12/03/19 18:11</u>	Instrument: <u>TOC6</u>	
Batch: <u>9111270</u>	Sequence: <u>9L03043</u>	Calibration: <u>A9K2205</u>

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

**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>9120591-BLK1</u>	File ID:
Prepared: <u>12/05/19 11:39</u>	Preparation: <u>PSEP-5310B TOC</u>	Initial/Final: <u>5 N/A / 5 N/A</u>
Analyzed: <u>12/12/19 10:51</u>	Instrument: <u>TOC</u>	
Batch: <u>9120591</u>	Sequence: <u>9L12028</u>	Calibration: <u>A8B0203</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: Solid

Batch: 9111270

Laboratory ID: 9111270-BS1

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (* = Out)	QC LIMITS REC.
Total Organic Carbon	10000	10000	104	85 - 115

\* = Values outside of QC limits

# 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: 9120591

Laboratory ID: 9120591-BS1

Preparation: PSEP-5310B TOC

Initial/Final: 5 N/A / 5 N/A

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (* = Out)	QC LIMITS REC.
Total Organic Carbon	10000	10000	104	90 - 110

\* = Values outside of QC limits

**DUPLICATES**  
**SM 5310 B MOD**

**PDI-013SC-A-02-03-190925**

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Matrix: Solid  
 Batch: 9111270  
 Preparation: PSEP-5310B TOC  
 Source Sample Name: PDI-013SC-A-02-03-190925

SDG: Gasco PreRD\_DG 2019  
 Project: Gasco PreRD\_DG 2019 - 4a-b. DOC-CAP  
 Laboratory ID: 9111270-DUP1  
 Lab Source ID: A9I0890-03  
 Initial/Final: 5 N/A / 5 N/A  
 % Solids: 87.34

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	1.2		0.92		29	*	SM 5310 B MOD

\* Values outside of QC limits

**DUPLICATES**  
**SM 5310 B MOD**

**PDI-018SC-A-06-07-190926**

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Matrix: Soil  
 Batch: 9120591  
 Preparation: PSEP-5310B TOC  
 Source Sample Name: PDI-018SC-A-06-07-190926

SDG: Gasco PreRD\_DG 2019  
 Project: Gasco PreRD\_DG 2019 - 4a-b. DOC-CAP  
 Laboratory ID: 9120591-DUP1  
 Lab Source ID: A9I0890-17  
 Initial/Final: 5 N/A / 5 N/A  
 % Solids: 53.92

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Organic Carbon	20	5.6		5.8		3		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: 8B02022

Instrument: TOC

Matrix: Sediment

Calibration: A8B0203

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	8B02022-CAL2		02/02/18 17:35
Cal Standard	8B02022-CAL3		02/02/18 17:35
Cal Standard	8B02022-CAL4		02/02/18 17:35
Cal Standard	8B02022-CAL5		02/02/18 17:35
Cal Standard	8B02022-CAL6		02/02/18 17:35
Cal Standard	8B02022-CAL7		02/02/18 17:35
Cal Standard	8B02022-CAL8		02/02/18 17:35
Cal Standard	8B02022-CAL9		02/02/18 17:35
Cal Standard	8B02022-CALA		02/02/18 17:35
Cal Standard	8B02022-CALB		02/02/18 17:35
Initial Cal Check	8B02022-ICV2		02/02/18 17:35
Initial Cal Blank	8B02022-ICB2		02/02/18 17:35

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: <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>9K22043</u>	Instrument: <u>TOC6</u>
Matrix: <u>Sediment</u>	Calibration: <u>A9K2205</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	9K22043-CAL2	9K22043.txt-005	11/22/19 16:52
Cal Standard	9K22043-CAL3	9K22043.txt-006	11/22/19 17:03
Cal Standard	9K22043-CAL4	9K22043.txt-007	11/22/19 17:14
Cal Standard	9K22043-CAL5	9K22043.txt-008	11/22/19 17:25
Cal Standard	9K22043-CAL6	9K22043.txt-009	11/22/19 17:35
Cal Standard	9K22043-CAL7	9K22043.txt-010	11/22/19 17:46
Cal Standard	9K22043-CAL8	9K22043.txt-011	11/22/19 17:57
Cal Standard	9K22043-CAL9	9K22043.txt-012	11/22/19 18:08
Initial Cal Check	9K22043-ICV1	9K22043.txt-013	11/22/19 18:18
Initial Cal Blank	9K22043-ICB1	9K22043.txt-014	11/22/19 18:29

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 C

Sequence: 9L03043

Instrument: TOC6

Matrix: Solid

Calibration: A9K2205

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L03043-CCV1	9L03043.txt-003	12/03/19 17:50
Calibration Blank	9L03043-CCB1	9L03043.txt-004	12/03/19 18:01
Blank	9111270-BLK1	9L03043.txt-005	12/03/19 18:11
LCS	9111270-BS1	9L03043.txt-006	12/03/19 18:22
PDI-013SC-A-02-03-190925	A9I0890-03	9L03043.txt-007	12/03/19 18:33
PDI-013SC-A-02-03-190925 (Dup)	9111270-DUP1	9L03043.txt-008	12/03/19 18:44
PDI-013SC-A-03-04-190925	A9I0890-04	9L03043.txt-009	12/03/19 18:55
Calibration Check	9L03043-CCV2	9L03043.txt-015	12/03/19 19:59
Calibration Blank	9L03043-CCB2	9L03043.txt-016	12/03/19 20:10
Calibration Check	9L03043-CCV3	9L03043.txt-027	12/03/19 22:09
Calibration Blank	9L03043-CCB3	9L03043.txt-028	12/03/19 22:20
Calibration Check	9L03043-CCV4	9L03043.txt-039	12/04/19 00:19
Calibration Blank	9L03043-CCB4	9L03043.txt-040	12/04/19 00:29
Calibration Check	9L03043-CCV5	9L03043.txt-051	12/04/19 02:29
Calibration Blank	9L03043-CCB5	9L03043.txt-052	12/04/19 02:40
Calibration Check	9L03043-CCV6	9L03043.txt-063	12/04/19 04:40
Calibration Blank	9L03043-CCB6	9L03043.txt-064	12/04/19 04:51
Calibration Check	9L03043-CCV7	9L03043.txt-075	12/04/19 06:51
Calibration Blank	9L03043-CCB7	9L03043.txt-076	12/04/19 07:02
Calibration Check	9L03043-CCV8	9L03043.txt-085	12/04/19 08:40
Calibration Blank	9L03043-CCB8	9L03043.txt-086	12/04/19 08:51

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 C

Sequence: 9L12028

Instrument: TOC

Matrix: Soil

Calibration: A8B0203

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	9L12028-CCV1		12/12/19 10:30
Calibration Blank	9L12028-CCB1		12/12/19 10:41
Blank	9120591-BLK1		12/12/19 10:51
LCS	9120591-BS1		12/12/19 10:59
PDI-018SC-A-06-07-190926	A9I0890-17		12/12/19 11:41
PDI-018SC-A-06-07-190926 (Dup)	9120591-DUP1		12/12/19 12:38
PDI-018SC-A-07-08-190926	A9I0890-18		12/12/19 13:00
Calibration Check	9L12028-CCV2		12/12/19 13:52
Calibration Blank	9L12028-CCB2		12/12/19 14:13
Calibration Check	9L12028-CCV3		12/12/19 15:40
Calibration Blank	9L12028-CCB3		12/12/19 15:58
Calibration Check	9L12028-CCV4		12/12/19 19:39
Calibration Blank	9L12028-CCB4		12/12/19 20:01

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: A8B0203

Date: 02/02/18 15:56

Instrument: TOC

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon		Lin				0.00000			

Note: \*\* Quad COD may be incorrect if weighting (1/a) or (1/a<sup>2</sup>) 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: A8B0203

Instrument: TOC

Calibration Date: 02/02/18 15:56

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	1000		2500		5000		10000		15000		20000	

# 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: A8B0203

Instrument: TOC

Matrix:

Calibration Date: 02/02/18 15:56

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		30000		35000		40000					

# 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: A9K2205

Date: 11/22/19 16:02

Instrument: TOC6

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon	94.60773	Lin	2.898205			0.99994			

Note: \*\* Quad COD may be incorrect if weighting (1/a) or (1/a<sup>2</sup>) 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: A9K2205

Instrument: TOC6

Calibration Date: 11/22/19 16:02

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	93.18835	500	91.1335	1000	92.96722	2500	94.3752	5000	92.28256	12500	98.10536

# 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: A9K2205

Instrument: TOC6

Matrix:

Calibration Date: 11/22/19 16:02

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	96.2846	50000	98.52502								

# 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: TOC

Calibration: A8B0203

Control Limit: +/- 10.00%

Sequence: 8B02022

Lab Sample ID	Analyte	True	Found	%R	Units	Method
8B02022-ICV2	Total Organic Carbon	10000	10000	104	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: A9K2205

Control Limit: +/- 10.00%

Sequence: 9K22043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
9K22043-ICV1	Total Organic Carbon	10000	10000	101	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: A9K2205

Control Limit: +/- 10.00%

Sequence: 9L03043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
9L03043-CCV1	Total Organic Carbon	10000	10000	102	mg/kg	SM 5310 B MOD
9L03043-CCV2	Total Organic Carbon	10000	10000	102	mg/kg	SM 5310 B MOD
9L03043-CCV3	Total Organic Carbon	10000	10000	103	mg/kg	SM 5310 B MOD
9L03043-CCV4	Total Organic Carbon	10000	10000	104	mg/kg	SM 5310 B MOD
9L03043-CCV5	Total Organic Carbon	10000	10000	103	mg/kg	SM 5310 B MOD
9L03043-CCV6	Total Organic Carbon	10000	10000	102	mg/kg	SM 5310 B MOD
9L03043-CCV7	Total Organic Carbon	10000	11000	105	mg/kg	SM 5310 B MOD
9L03043-CCV8	Total Organic Carbon	10000	11000	106	mg/kg	SM 5310 B MOD

\* Values outside of OC 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: TOC

Calibration: A8B0203

Control Limit: +/- 10.00%

Sequence: 9L12028

Lab Sample ID	Analyte	True	Found	%R	Units	Method
9L12028-CCV1	Total Organic Carbon	10000	10000	101	mg/kg	SM 5310 B MOD
9L12028-CCV2	Total Organic Carbon	10000	10000	102	mg/kg	SM 5310 B MOD
9L12028-CCV3	Total Organic Carbon	10000	10000	103	mg/kg	SM 5310 B MOD
9L12028-CCV4	Total Organic Carbon	10000	9100	91	mg/kg	SM 5310 B MOD

\* Values outside of OC 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: TOC

Calibration: A8B0203

Control Limit: +/- 10.00%

Sequence: 9L13026

Lab Sample ID	Analyte	True	Found	%R	Units	Method
9L13026-CCV1	Total Organic Carbon	10000	9200	92	mg/kg	SM 5310 B MOD
9L13026-CCV2	Total Organic Carbon	10000	9100	91	mg/kg	SM 5310 B MOD
9L13026-CCV3	Total Organic Carbon	10000	9200	92	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: TOC

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

Sequence: 8B02022

Calibration: A8B0203

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>RL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
8B02022-ICB2	Total Organic Carbon	260	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: 9K22043

Calibration: A9K2205

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>RL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
9K22043-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: 9L03043

Calibration: A9K2205

Lab Sample ID	Analyte	Found	RL	Units	C	Method
9L03043-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB4	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB5	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB6	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB7	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L03043-CCB8	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: TOC

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

Sequence: 9L12028

Calibration: A8B0203

<b>Lab Sample ID</b>	<b>Analyte</b>	<b>Found</b>	<b>RL</b>	<b>Units</b>	<b>C</b>	<b>Method</b>
9L12028-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L12028-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L12028-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		SM 5310 B MOD
9L12028-CCB4	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-013SC-A-02-03-190925	09/25/19 13:51	09/27/19 10:25	11/27/19 08:40	62.78	28.00	12/03/19 18:33	69.20	28.00	*
PDI-013SC-A-03-04-190925	09/25/19 13:51	09/27/19 10:25	11/27/19 08:40	62.78	28.00	12/03/19 18:55	69.21	28.00	*
PDI-018SC-A-06-07-190926	09/26/19 08:54	09/27/19 10:25	12/05/19 11:39	70.11	28.00	12/12/19 11:41	77.12	28.00	*
PDI-018SC-A-07-08-190926	09/26/19 08:54	09/27/19 10:25	12/05/19 11:39	70.11	28.00	12/12/19 13:00	77.17	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 C

---

<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>PDI-013SC-A-02-03-190925</u>	<u>A9I0890-03</u>	<u>Sediment</u>
<u>PDI-013SC-A-03-04-190925</u>	<u>A9I0890-04</u>	<u>Sediment</u>
<u>PDI-018SC-A-06-07-190926</u>	<u>A9I0890-17</u>	<u>Sediment</u>
<u>PDI-018SC-A-07-08-190926</u>	<u>A9I0890-18</u>	<u>Sediment</u>

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:

1/21/2020 4:33PM

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-013SC-A-02-03-190925

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: A9I0890-03

Sampled: 09/25/19 13:51

Prepared: 11/26/19 12:48

Analyzed: 11/27/19 18:30

Solids: 87.34

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 9111229

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	87.3	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-013SC-A-03-04-190925

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: A9I0890-04

Sampled: 09/25/19 13:51

Prepared: 11/26/19 12:48

Analyzed: 11/27/19 18:30

Solids: 79.42

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 9111229

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	79.4	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-018SC-A-06-07-190926
--------------------------

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: A9I0890-17

Sampled: 09/26/19 08:54

Prepared: 12/06/19 17:00

Analyzed: 12/09/19 17:08

Solids: 53.92

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 9120500

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	53.9	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

PDI-018SC-A-07-08-190926

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: A9I0890-18

Sampled: 09/26/19 08:54

Prepared: 12/06/19 17:00

Analyzed: 12/09/19 17:08

Solids: 77.99

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 9120500

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (% by Weight)	Dilution Factor	Q	Method
TS	Total Solids	78.0	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: 9111229

Batch Matrix: Sediment

Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PDI-013SC-A-02-03-190925 (Dup)	9111229-DUP1		11/26/19 12:48	
PDI-013SC-A-02-03-190925	A9I0890-03		11/26/19 12:48	
PDI-013SC-A-03-04-190925	A9I0890-04		11/26/19 12:48	

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-013SC-A-02-03-190925

## 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: 9111229-DUP1

Batch: 9111229

Lab Source ID: A9I0890-03

Preparation: Total Solids (SM2540G/PSEP)

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

Source Sample Name: PDI-013SC-A-02-03-190925

% Solids: 87.34

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	87.3		87.1		0.3		SM 2540 G

\* Values outside of QC limits

# DUPLICATES

PDI-018SC-A-06-07-190926

## 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: 9120500-DUP1

Batch: 9120500

Lab Source ID: A9I0890-17

Preparation: Total Solids (SM2540G/PSEP)

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

Source Sample Name: PDI-018SC-A-06-07-190926

% Solids: 53.92

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% by Weight)	C	DUPLICATE CONCENTRATION (% by Weight)	C	RPD %	Q	METHOD
Total Solids	10	53.9		54.1		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-013SC-A-02-03-190925	09/25/19 13:51	09/27/19 10:25	11/26/19 12:48	61.96	180.00	11/27/19 18:30	1.24		
PDI-013SC-A-03-04-190925	09/25/19 13:51	09/27/19 10:25	11/26/19 12:48	61.96	180.00	11/27/19 18:30	1.24		
PDI-018SC-A-06-07-190926	09/26/19 08:54	09/27/19 10:25	12/06/19 17:00	71.34	180.00	12/09/19 17:08	3.01		
PDI-018SC-A-07-08-190926	09/26/19 08:54	09/27/19 10:25	12/06/19 17:00	71.34	180.00	12/09/19 17:08	3.01		

**Raw Data**

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

Batch 9120609  
Sequence 9L16015 (A9I0890-17,18)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120609 (Soil)**

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	>11
	9120609-BLK1	QC	12/06/19 10:18	31	2				100					
	9120609-BS1	QC	12/06/19 10:18	30	2	A19K318		100	100					
	A910890-17	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.43	2				100	PDI-018SC-A-06-07-190926	MS/MSD, +1262,1268			
	9120609-MS1	QC	12/06/19 10:18	30.54	2	A19K318	A910890-17	100	100					
	9120609-MSD1	QC	12/06/19 10:18	30.47	2	A19K318	A910890-17	100	100					
	A910890-18	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.41	2				100	PDI-018SC-A-07-08-190926	+1262,1268			
	A9J0033-50	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.18	2				100	PDI-064SC-A-00-01-190929	+1262,1268			
	A9J0033-51	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.51	2				100	PDI-064SC-A-01-02-190929	+1262,1268			
	A9J0095-02	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.17	2				100	PDI-046SC-A-01-02-191001	+1262,1268			
	A9J0095-03	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.54	2				100	PDI-046SC-A-02-03-191001	+1262,1268			
	A9J0095-14	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.86	2				100	PDI-047SC-A-01-02-191001	+1262,1268			
	A9J0095-14RE1	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.86	2				100	PDI-047SC-A-01-02-191001	5x Added 12/27/2019 By KAK			
	A9J0095-15	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.66	2				100	PDI-047SC-A-02-03-191001	+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	A19K318	02/28/20	8082 PCB Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisil Lot 817211-CM						
A19G280	01/18/20	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						
A19L058	06/01/22	Sodium Sulfate Lot # Q183003						

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

  
 Reviewed By: \_\_\_\_\_ Date: 11/7/20

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120609 (Soil)**

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	>11

Method 3546 digestion time and temperture achieved.

Initial:

Witness: \_\_\_\_\_

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_





**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9120609 (Soil)

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	5-8	>11
1/2	9120609-BLK1	QC	12/06/19 10:18	30.31	2				100					
3/4	9120609-BS1	QC	12/06/19 10:18	30	2	A19K318		100	100					
5/6	A910890-17	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.43	2				100	PDI-018SC-A-06-07-190926	MS/MSD, +1262,1268 Mud Odor #			
7/8	9120609-MS1	QC	12/06/19 10:18	30.54	2	A19K318	A910890-17	100	100					
9/10	9120609-MSD1	QC	12/06/19 10:18	30.47	2	A19K318	A910890-17	100	100					
11/12	A910890-18	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.41	2				100	PDI-018SC-A-07-08-190926	+1262,1268 Mud #			
13/14	A9J0033-50	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.18	2				100	PDI-064SC-A-00-01-190929	+1262,1268 Mud #			
15/16	A9J0033-51	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.51	2				100	PDI-064SC-A-01-02-190929	+1262,1268 Mud Odor #			
17/18	A9J0095-02	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.17	2				100	PDI-046SC-A-01-02-191001	+1262,1268 dirt #			
19/20	A9J0095-03	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.54	2				100	PDI-046SC-A-02-03-191001	+1262,1268 dirt #			
21/22	A9J0095-14	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.86	2				100	PDI-047SC-A-01-02-191001	+1262,1268 Mud #			
23/24	A9J0095-15	A 8082 PCBs - Low Level (30g/2mL)	12/06/19 10:18	30.66	2				100	PDI-047SC-A-02-03-191001	+1262,1268 dirt #			

**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	A19K318	02/28/20	8082 PCB Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisil Lot 817211-CM						
A19G280	01/18/20	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						
A19L058	06/01/22	Sodium Sulfate Lot # Q183003						

# = Sticking On Turbo Vap  
# = Precipitate Formed

Prepared By: Gretz Date: 12/6/19

Reviewed By: CAS Date: 12/06/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120609 (Soil)**

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	5/6	>11

Method 3546 digestion time and temperture achieved.

Initial: *AW*

Witness: *AW 12/6/19*

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 9L16015

Instrument: DUALECD2F

Date: 12/16/19 07:23

Calibration: A9L0407

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L16015-CCV1	Soil	QC	QC				
2	9L16015-CCB1	Soil	QC	QC				A19K315
3	9120609-BLK1	Soil	QC	QC				A19L018
4	9120609-BS1	Soil	QC	QC		9120609		
5	A9I0890-17	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC		9120609		
6	9L16015-IBL1	Soil	QC	QC	12/16/19	9120609		
7	9120609-MS1	Soil	QC	QC		9120609		
8	9L16015-IBL2	Soil	QC	QC				
9	9120609-MSD1	Soil	QC	QC		9120609		
10	9L16015-IBL3	Soil	QC	QC				
11	A9I0890-18	Soil	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/16/19	9120609		
12	9L16015-IBL4	Soil	QC	QC				
13	9L16015-CCV2	Soil	QC	QC				A19K315
14	9L16015-CCB2	Soil	QC	QC				A19L018

Comments:

Data Entered By: *[Signature]* 12/18/19

Data Reviewed By: *[Signature]* 12/18/19

## 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.

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### 9L16015-CCV1

#### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	442.64
1016 (2)	476.88
1016 (3)	453.38
1016 (4)	469.43
1016 (5)	478.01
1016 (6)	474.05
<b>Average:</b>	<b>465.73</b>

#### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	515.92
1260 (2)	503.69
1260 (3)	499.65
1260 (4)	512.13
1260 (5)	524.99
1260 (6)	511.29
<b>Average:</b>	<b>511.28</b>

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### 9120609-BS1

#### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	760.66
1016 (2)	902.06
1016 (3)	791.17
1016 (4)	885.70
1016 (5)	831.64
1016 (6)	813.43
<b>Average:</b>	<b>830.78</b>

#### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	1,026.54
1260 (2)	1,069.74
1260 (3)	1,049.66
1260 (4)	1,100.82
1260 (5)	1,064.78
1260 (6)	1,097.23
<b>Average:</b>	<b>1,068.13</b>

## 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.

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### 9120609-MS1

#### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	544.74
1016 (2)	656.76
1016 (3)	588.20
1016 (4)	561.07
1016 (5)	538.23
1016 (6)	506.23
<b>Average:</b>	<b>565.87</b>

#### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	795.24
1260 (2)	868.95
1260 (3)	715.23
1260 (4)	813.22
1260 (5)	803.48
1260 (6)	689.46
<b>Average:</b>	<b>780.93</b>

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### 9120609-MSD1

#### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	471.78
1016 (2)	571.67
1016 (3)	484.00
1016 (4)	491.38
1016 (5)	453.94
1016 (6)	440.62
<b>Average:</b>	<b>485.57</b>

#### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	696.46
1260 (2)	815.62
1260 (3)	621.59
1260 (4)	743.23
1260 (5)	691.40
1260 (6)	617.37
<b>Average:</b>	<b>697.61</b>

## 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.

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<b>9L16015-CCV2</b>
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### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	441.82
1016 (2)	474.79
1016 (3)	449.30
1016 (4)	477.35
1016 (5)	484.05
1016 (6)	468.48
<b>Average:</b>	<b>465.97</b>

### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	490.96
1260 (2)	489.25
1260 (3)	484.02
1260 (4)	490.27
1260 (5)	485.69
1260 (6)	464.20
<b>Average:</b>	<b>484.07</b>

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 8:14  
 Operator : MJB / KAK  
 Sample : 9L16015-CCV1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:13:26 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 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)	4.815	14772206	221.846	ng/ml
62) S DCBP (S)	9.582	30352873	271.796	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	5.731	1654553	442.636	ng/ml
3) Aroclor 1016 (2)	6.145	3430617	476.878	ng/ml
4) Aroclor 1016 (3)	6.227	1801226	453.375	ng/ml
5) Aroclor 1016 (4)	6.383	1679319	469.430	ng/ml
6) Aroclor 1016 (5)	6.605	1984433	478.005	ng/ml
7) Aroclor 1016 (6)	6.732	1390493	474.049	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.170	156060	144.176	ng/ml
10) Aroclor 1221 (2)	5.289	169434	236.122	ng/ml
11) Aroclor 1221 (3)	5.370	729042	311.541	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.370	729042	410.457	ng/ml
14) Aroclor 1232 (2)	6.145	3430617	1233.954	ng/ml
15) Aroclor 1232 (3)	6.227	1801226	1227.879	ng/ml
16) Aroclor 1232 (4)	6.383	1679319	1473.908	ng/ml
17) Aroclor 1232 (5)	6.605	1984433	1381.937	ng/ml
18) Aroclor 1232 (6)	6.732	1390493	1160.561	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.731	1654553	622.943	ng/ml
21) Aroclor 1242 (2)	6.145	3430617	661.377	ng/ml
22) Aroclor 1242 (3)	6.227	1801226	638.694	ng/ml
23) Aroclor 1242 (4)	6.383	1679319	733.589	ng/ml
24) Aroclor 1242 (5)	6.605	1984433	664.867	ng/ml
25) Aroclor 1242 (6)	6.732	1390493	554.153	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.145	3430617	1008.028	ng/ml
28) Aroclor 1248 (2)	6.383	1679319	371.924	ng/ml
29) Aroclor 1248 (3)	6.605	1984433	380.243	ng/ml
30) Aroclor 1248 (4)	6.899	373421	64.326	ng/ml
31) Aroclor 1248 (5)	6.933	1372451	222.826	ng/ml
32) Aroclor 1248 (6)	7.419	3144562	920.157	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.933	1372451	228.814	ng/ml
35) Aroclor 1254 (2)	7.043	1444164	198.168	ng/ml
36) Aroclor 1254 (3)	7.419	3144562	280.515	ng/ml
37) Aroclor 1254 (4)	7.581	425799	59.719	ng/ml
38) Aroclor 1254 (5)	7.960	4072970	531.789	ng/ml
39) Aroclor 1254 (6)	8.252	441206	176.915	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.532	4296491	515.922	ng/ml
42) Aroclor 1260 (2)	7.665	5138881	503.694	ng/ml
43) Aroclor 1260 (3)	8.223	3929818	499.649	ng/ml
44) Aroclor 1260 (4)	8.393	9535156	512.134	ng/ml
45) Aroclor 1260 (5)	8.692	6350240	524.988	ng/ml
46) Aroclor 1260 (6)	9.084	2615052	511.291	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 8:14  
 Operator : MJB / KAK  
 Sample : 9L16015-CCV1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:13:26 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.665	5138881	638.655	ng/ml
49) Aroclor 1262 (2)	7.990	3939645	350.968	ng/ml
50) Aroclor 1262 (3)	8.223	3929818	404.930	ng/ml
51) Aroclor 1262 (4)	8.393	9535156	461.525	ng/ml
52) Aroclor 1262 (5)	8.692	6350240	485.405	ng/ml
53) Aroclor 1262 (6)	9.084	2615052	391.672	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.223	3929818	769.913	ng/ml
56) Aroclor 1268 (2)	8.640	2201143	89.749	ng/ml
57) Aroclor 1268 (3)	8.692	6350240	311.070	ng/ml
58) Aroclor 1268 (4)	8.867	231271	12.075	ng/ml
59) Aroclor 1268 (5)	9.084	2615052	337.438	ng/ml
60) Aroclor 1268 (6)	9.344	656846	12.563	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

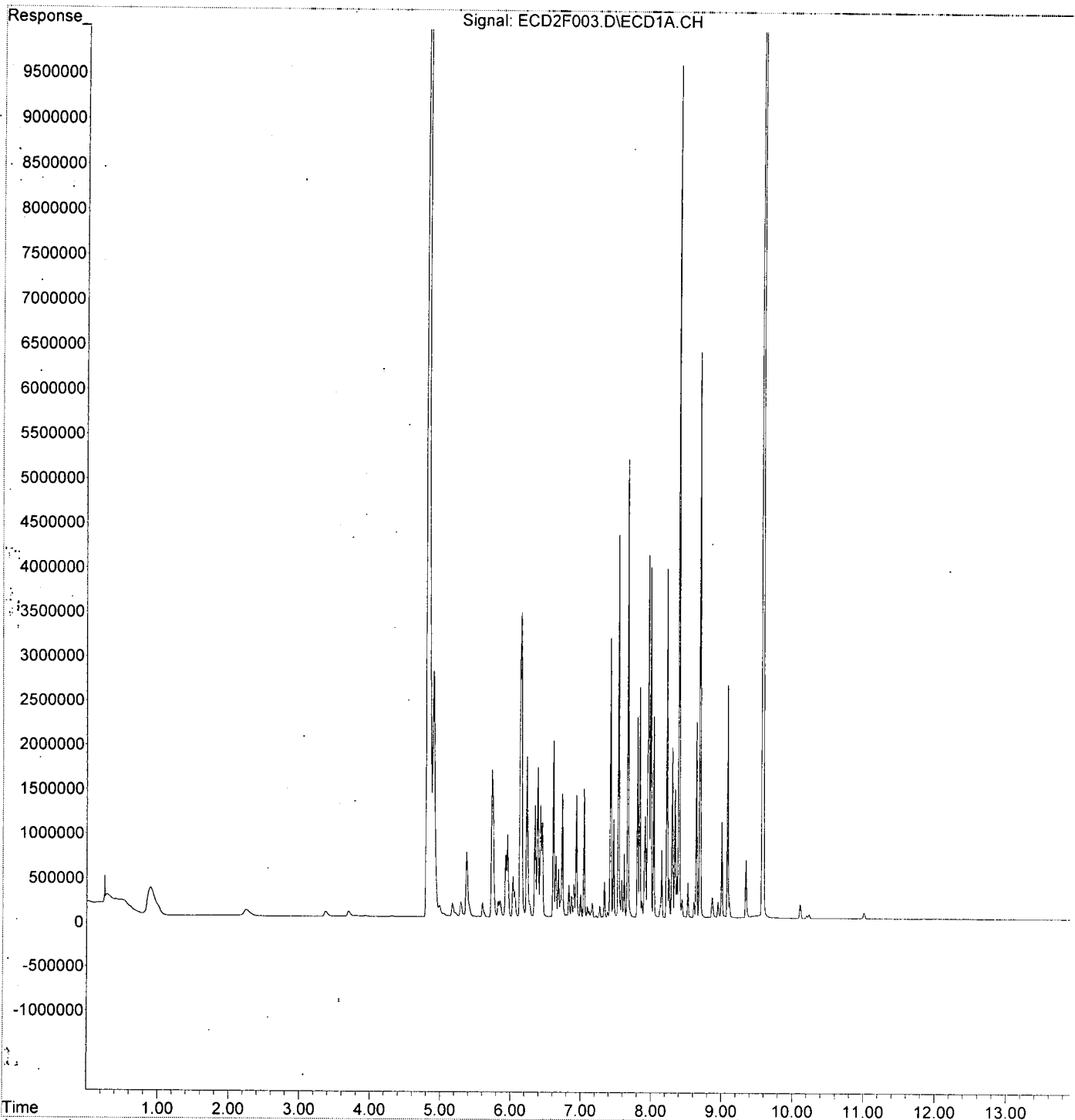
(f)=RT Delta > 1/2 Window

(m)=manual int.



Data Path : K:\DATA\9L16015\  
Data File : ECD2F003.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 8:14  
Operator : MJB / KAK  
Sample : 9L16015-CCV1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:13:26 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 8:32  
 Operator : MJB / KAK  
 Sample : 9L16015-CCB1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:13:47 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.812	5997912	90.075 ng/ml
62) S DCBP (S)	9.581	12533025	112.228 ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.733	3136	0.839 ng/ml
3) Aroclor 1016 (2)	6.150	4405	0.612 ng/ml
4) Aroclor 1016 (3)	6.217	1146	0.289 ng/ml
5) Aroclor 1016 (4)	6.392	2704	0.756 ng/ml
6) Aroclor 1016 (5)	6.611	2853	0.687 ng/ml
7) Aroclor 1016 (6)	6.736	2256	0.769 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.171	8930	8.250 ng/ml
10) Aroclor 1221 (2)	5.317	7516	10.474 ng/ml
11) Aroclor 1221 (3)	5.370	7307	3.123 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.370	7307	4.114 ng/ml
14) Aroclor 1232 (2)	6.150	4405	1.585 ng/ml
15) Aroclor 1232 (3)	6.217	1146	0.781 ng/ml
16) Aroclor 1232 (4)	6.392	2704	2.373 ng/ml
17) Aroclor 1232 (5)	6.611	2853	1.987 ng/ml
18) Aroclor 1232 (6)	6.736	2256	1.883 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.724	3132	1.179 ng/ml
21) Aroclor 1242 (2)	6.150	4405	0.849 ng/ml
22) Aroclor 1242 (3)	6.217	1146	0.407 ng/ml
23) Aroclor 1242 (4)	6.392	2704	1.181 ng/ml
24) Aroclor 1242 (5)	6.611	2853	0.956 ng/ml
25) Aroclor 1242 (6)	6.736	2256	0.899 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.125	1007	0.296 ng/ml
28) Aroclor 1248 (2)	6.392	2704	0.599 ng/ml
29) Aroclor 1248 (3)	6.611	2853	0.547 ng/ml
30) Aroclor 1248 (4)	6.903	819	0.141 ng/ml
31) Aroclor 1248 (5)	6.938	1184	0.192 ng/ml
32) Aroclor 1248 (6)	7.420	2952	0.864 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.938	1184	0.197 ng/ml
35) Aroclor 1254 (2)	7.045	1903	0.261 ng/ml
36) Aroclor 1254 (3)	7.420	2952	0.263 ng/ml
37) Aroclor 1254 (4)	7.580	1516	0.213 ng/ml
38) Aroclor 1254 (5)	7.968	5820	0.760 ng/ml
39) Aroclor 1254 (6)	8.257	629	0.252 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.534	3250	0.390 ng/ml
42) Aroclor 1260 (2)	7.667	5831	0.572 ng/ml
43) Aroclor 1260 (3)	8.223	2194	0.279 ng/ml
44) Aroclor 1260 (4)	8.393	13924	0.748 ng/ml
45) Aroclor 1260 (5)	8.694	5102	0.422 ng/ml
46) Aroclor 1260 (6)	9.087	4654	0.910 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 8:32  
 Operator : MJB / KAK  
 Sample : 9L16015-CCB1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:13:47 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

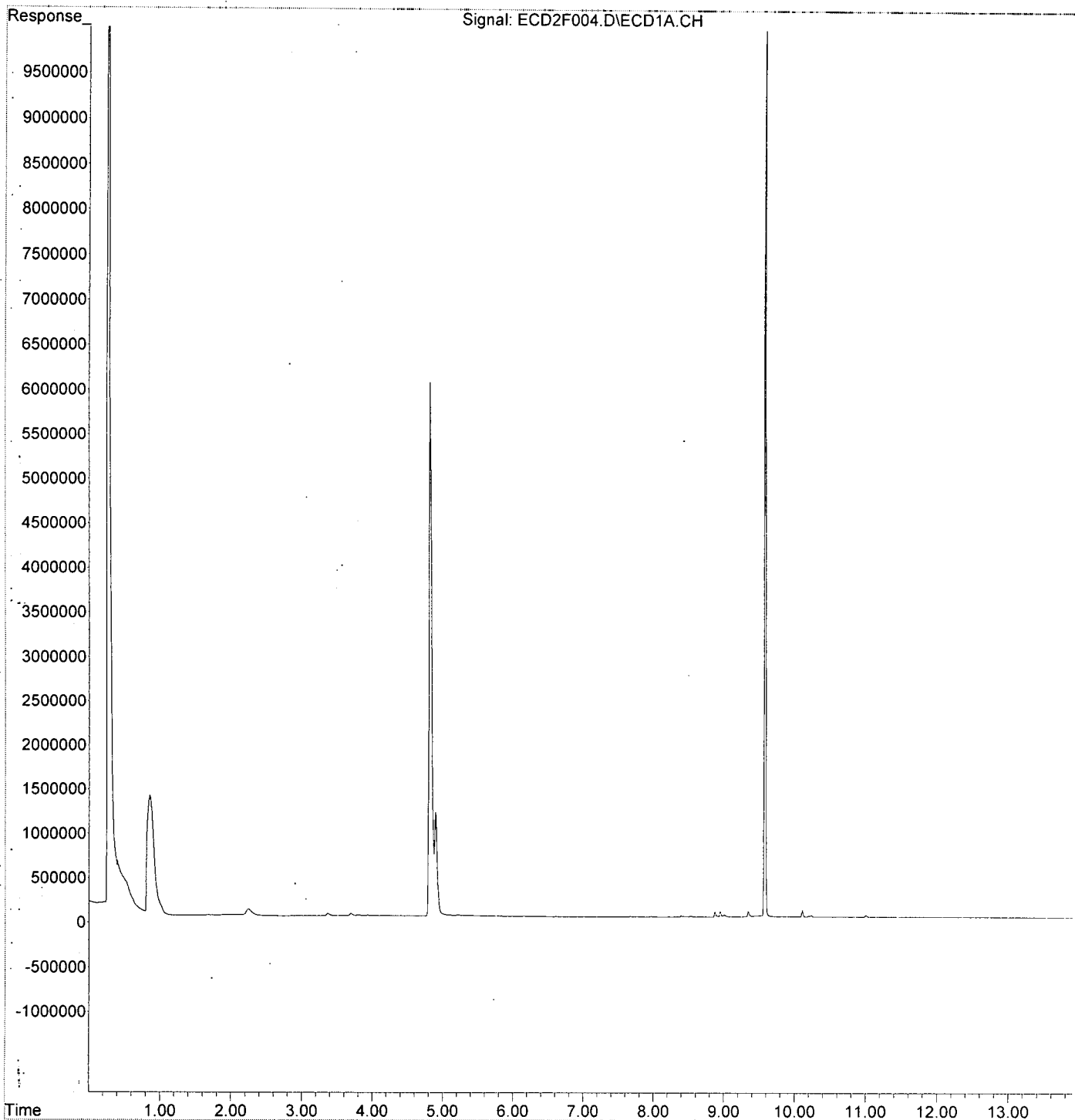
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.667	5831	0.725	ng/ml
49) Aroclor 1262 (2)	7.991	3885	0.346	ng/ml
50) Aroclor 1262 (3)	8.223	2194	0.226	ng/ml
51) Aroclor 1262 (4)	8.393	13924	0.674	ng/ml
52) Aroclor 1262 (5)	8.694	5102	0.390	ng/ml
53) Aroclor 1262 (6)	9.087	4654	0.697	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.223	2194	0.430	ng/ml
56) Aroclor 1268 (2)	8.642	2627	0.107	ng/ml
57) Aroclor 1268 (3)	8.694	5102	0.250	ng/ml
58) Aroclor 1268 (4)	8.873	56474	2.949	ng/ml
59) Aroclor 1268 (5)	9.087	4654	0.601	ng/ml
60) Aroclor 1268 (6)	9.347	63413	1.213	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\9L16015\  
Data File : ECD2F004.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 8:32  
Operator : MJB / KAK  
Sample : 9L16015-CCB1  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:13:47 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 8:51  
 Operator : MJB / KAK  
 Sample : 9120609-BLK1  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:14:09 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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*Clean*

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.814	10428444	156.612 ng/ml
62) S DCBP (S)	9.582	27628073	247.397 ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.728	4530	1.212 ng/ml
3) Aroclor 1016 (2)	6.148	2980	0.414 ng/ml
4) Aroclor 1016 (3)	6.225	1186	0.299 ng/ml
5) Aroclor 1016 (4)	6.385	1774	0.496 ng/ml
6) Aroclor 1016 (5)	6.610	1869	0.450 ng/ml
7) Aroclor 1016 (6)	6.736	1482	0.505 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.168	9294	8.586 ng/ml
10) Aroclor 1221 (2)	5.260	10254	14.290 ng/ml
11) Aroclor 1221 (3)	5.366	9064	3.873 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.366	9064	5.103 ng/ml
14) Aroclor 1232 (2)	6.148	2980	1.072 ng/ml
15) Aroclor 1232 (3)	6.225	1186	0.808 ng/ml
16) Aroclor 1232 (4)	6.385	1774	1.557 ng/ml
17) Aroclor 1232 (5)	6.610	1869	1.301 ng/ml
18) Aroclor 1232 (6)	6.736	1482	1.237 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.728	4530	1.706 ng/ml
21) Aroclor 1242 (2)	6.148	2980	0.575 ng/ml
22) Aroclor 1242 (3)	6.225	1186	0.421 ng/ml
23) Aroclor 1242 (4)	6.385	1774	0.775 ng/ml
24) Aroclor 1242 (5)	6.610	1869	0.626 ng/ml
25) Aroclor 1242 (6)	6.736	1482	0.590 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.148	2980	0.876 ng/ml
28) Aroclor 1248 (2)	6.385	1774	0.393 ng/ml
29) Aroclor 1248 (3)	6.610	1869	0.358 ng/ml
30) Aroclor 1248 (4)	6.900	654	0.113 ng/ml
31) Aroclor 1248 (5)	6.935	1335	0.217 ng/ml
32) Aroclor 1248 (6)	7.420	3135	0.917 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.935	1335	0.223 ng/ml
35) Aroclor 1254 (2)	7.045	1898	0.260 ng/ml
36) Aroclor 1254 (3)	7.420	3135	0.280 ng/ml
37) Aroclor 1254 (4)	7.580	2402	0.337 ng/ml
38) Aroclor 1254 (5)	7.969	6764	0.883 ng/ml
39) Aroclor 1254 (6)	8.252	647	0.259 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.535	3391	0.407 ng/ml
42) Aroclor 1260 (2)	7.667	4358	0.427 ng/ml
43) Aroclor 1260 (3)	8.222	1709	0.217 ng/ml
44) Aroclor 1260 (4)	8.391	9774	0.525 ng/ml
45) Aroclor 1260 (5)	8.693	4561	0.377 ng/ml
46) Aroclor 1260 (6)	9.082	6398	1.251 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 8:51  
 Operator : MJB / KAK  
 Sample : 9120609-BLK1  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:14:09 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

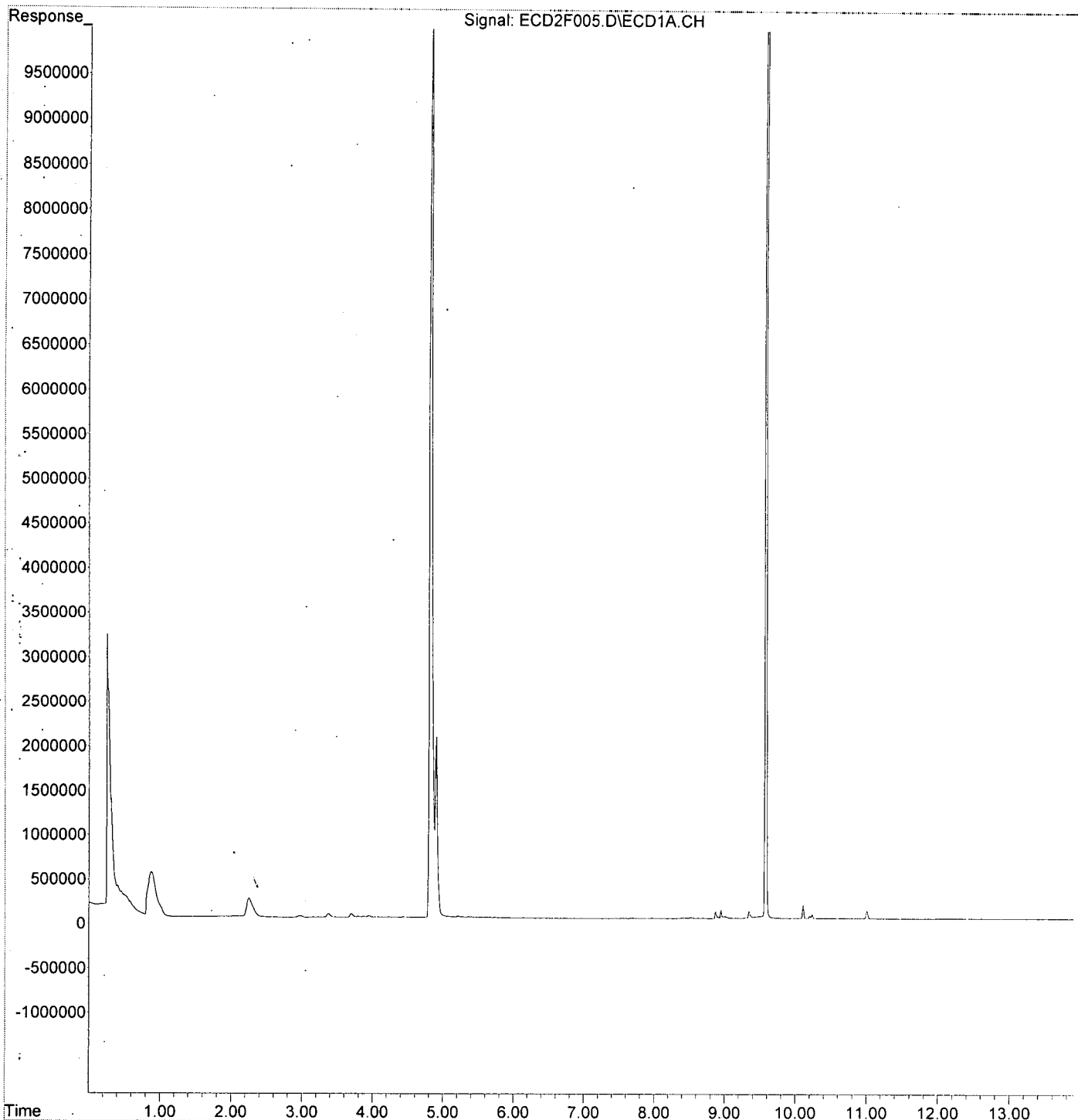
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.667	4358	0.542 ng/ml
49)	Aroclor 1262 (2)	7.994	3088	0.275 ng/ml
50)	Aroclor 1262 (3)	8.222	1709	0.176 ng/ml
51)	Aroclor 1262 (4)	8.391	9774	0.473 ng/ml
52)	Aroclor 1262 (5)	8.693	4561	0.349 ng/ml
53)	Aroclor 1262 (6)	9.082	6398	0.958 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.222	1709	0.335 ng/ml
56)	Aroclor 1268 (2)	8.644	3416	0.139 ng/ml
57)	Aroclor 1268 (3)	8.693	4561	0.223 ng/ml
58)	Aroclor 1268 (4)	8.873	78924	4.121 ng/ml
59)	Aroclor 1268 (5)	9.082	6398	0.826 ng/ml
60)	Aroclor 1268 (6)	9.347	80858	1.547 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\9L16015\  
Data File : ECD2F005.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 8:51  
Operator : MJB / KAK  
Sample : 9120609-BLK1  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:14:09 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 9:08  
 Operator : MJB / KAK  
 Sample : 9120609-BS1  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:14:30 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten Signature]*  
 12/18/19

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	4.815	10778509	161.869	ng/ml
62) S DCBP (S)	9.582	29281759	262.205	ng/ml
<b>Target Compounds</b>				
2) Aroclor 1016 (1)	5.730	2843303	760.657	ng/ml
3) Aroclor 1016 (2)	6.143	6489315	902.057	ng/ml
4) Aroclor 1016 (3)	6.225	3143258	791.169	ng/ml
5) Aroclor 1016 (4)	6.382	3168474	885.703	ng/ml
6) Aroclor 1016 (5)	6.604	3452537	831.639	ng/ml
7) Aroclor 1016 (6)	6.731	2385977	813.430	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.167	238561	220.393	ng/ml
10) Aroclor 1221 (2)	5.288	274434	382.450	ng/ml
11) Aroclor 1221 (3)	5.369	1242217	530.836	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.369	1242217	699.379	ng/ml
14) Aroclor 1232 (2)	6.143	6489315	2334.132	ng/ml
15) Aroclor 1232 (3)	6.225	3143258	2142.729	ng/ml
16) Aroclor 1232 (4)	6.382	3168474	2780.912	ng/ml
17) Aroclor 1232 (5)	6.604	3452537	2404.308	ng/ml
18) Aroclor 1232 (6)	6.731	2385977	1991.432	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.730	2843303	1070.510	ng/ml
21) Aroclor 1242 (2)	6.143	6489315	1251.053	ng/ml
22) Aroclor 1242 (3)	6.225	3143258	1114.563	ng/ml
23) Aroclor 1242 (4)	6.382	3168474	1384.108	ng/ml
24) Aroclor 1242 (5)	6.604	3452537	1156.743	ng/ml
25) Aroclor 1242 (6)	6.731	2385977	950.883	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.143	6489315	1906.774	ng/ml
28) Aroclor 1248 (2)	6.382	3168474	701.733	ng/ml
29) Aroclor 1248 (3)	6.604	3452537	661.550	ng/ml
30) Aroclor 1248 (4)	6.898	702970	121.094	ng/ml
31) Aroclor 1248 (5)	6.932	2550656	414.114	ng/ml
32) Aroclor 1248 (6)	7.419	6087810	1781.407	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.932	2550656	425.243	ng/ml
35) Aroclor 1254 (2)	7.042	3037718	416.836	ng/ml
36) Aroclor 1254 (3)	7.419	6087810	543.071	ng/ml
37) Aroclor 1254 (4)	7.578	860250	120.652	ng/ml
38) Aroclor 1254 (5)	7.960	8041084	1049.888	ng/ml
39) Aroclor 1254 (6)	8.251	774286	310.473	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.531	8548802	1026.539	ng/ml
42) Aroclor 1260 (2)	7.666	10913944	1069.743	ng/ml
43) Aroclor 1260 (3)	8.222	8255710	1049.656	ng/ml
44) Aroclor 1260 (4)	8.392	20495569	1100.819	ng/ml
45) Aroclor 1260 (5)	8.691	12879544	1064.779	ng/ml
46) Aroclor 1260 (6)	9.083	5611894	1097.230	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

✓

✓



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 9:08  
 Operator : MJB / KAK  
 Sample : 9120609-BS1  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:14:30 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

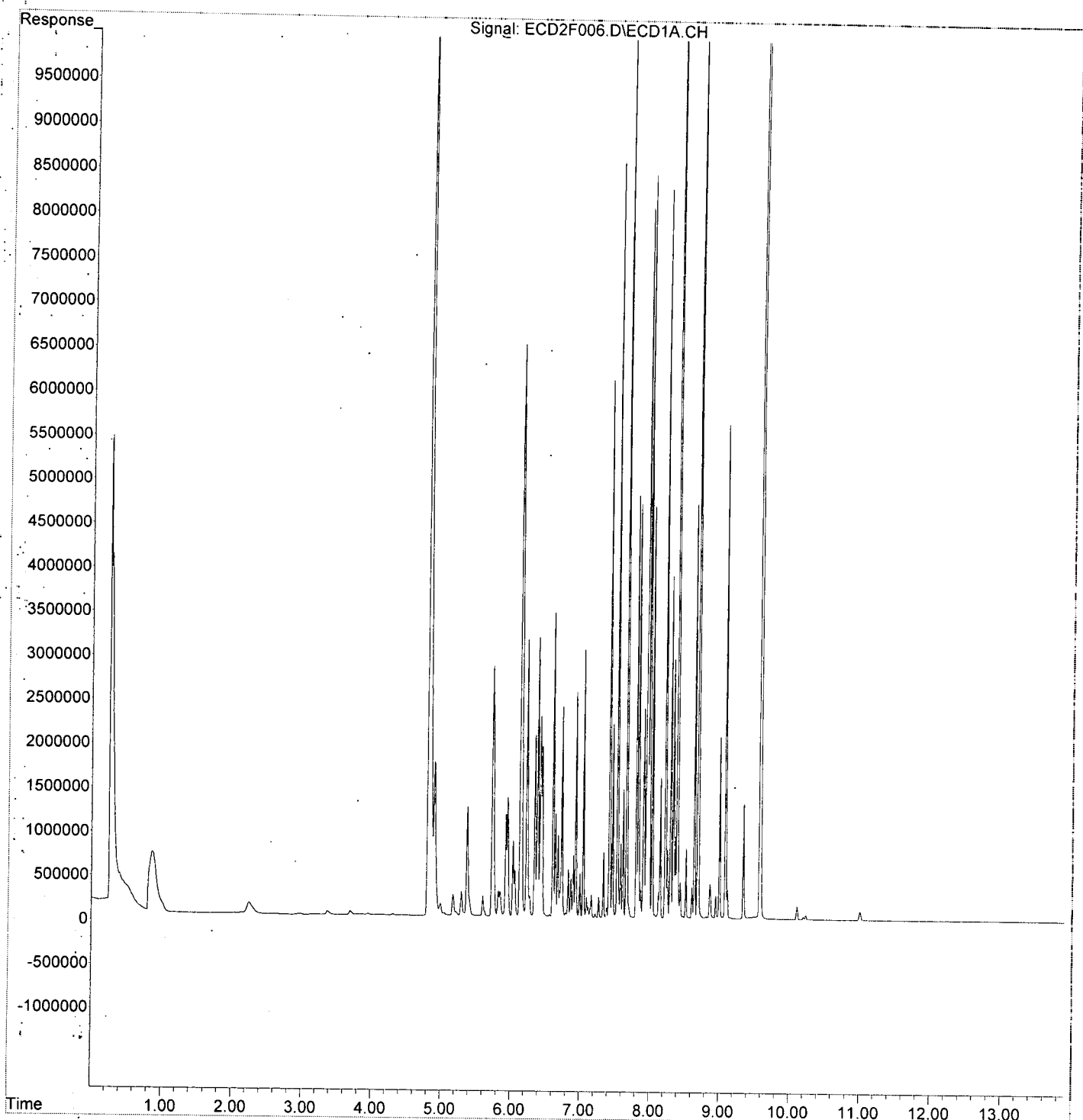
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.666	10913944	1356.374	ng/ml
49) Aroclor 1262 (2)	7.989	8398118	748.157	ng/ml
50) Aroclor 1262 (3)	8.222	8255710	850.672	ng/ml
51) Aroclor 1262 (4)	8.392	20495569	992.037	ng/ml
52) Aroclor 1262 (5)	8.691	12879544	984.497	ng/ml
53) Aroclor 1262 (6)	9.083	5611894	840.527	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.222	8255710	1617.423	ng/ml
56) Aroclor 1268 (2)	8.640	4698487	191.574	ng/ml
57) Aroclor 1268 (3)	8.691	12879544	630.911	ng/ml
58) Aroclor 1268 (4)	8.863	389539	20.338	ng/ml
59) Aroclor 1268 (5)	9.083	5611894	724.140	ng/ml
60) Aroclor 1268 (6)	9.343	1307366	25.005	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\9L16015\  
Data File : ECD2F006.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 9:08  
Operator : MJB / KAK  
Sample : 9120609-BS1  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:14:30 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path: K:\DATA\9L16015\  
 Data File: ECD2F007.D  
 Signal(s): ECD1A.CH  
 Acq On: 16 Dec 2019 9:26  
 Operator: MJB / KAK  
 Sample: A9I0890-17  
 Misc:  
 ALS Vial: 6 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:14:51 2019  
 Quant Method: K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title: PCB Data Analysis  
 QLast Update: Wed Dec 04 15:29:22 2019  
 Response via: Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/18/19*  
*1260 P.09*  
*12/18/19*  
*Q-42*

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	4.807	11975064	179.839	ng/ml
62) S DCBP (S)	9.584	16660779	149.190	ng/ml
<b>Target Compounds</b>				
2) Aroclor 1016 (1)	<del>5.765</del> 5.733	<del>52621</del>	<del>14.078</del>	ng/ml 2.190MI
3) Aroclor 1016 (2)	6.139	48961	6.806	ng/ml
4) Aroclor 1016 (3)	6.235	31182	7.849	ng/ml
5) Aroclor 1016 (4)	6.379	160805	44.951	ng/ml
6) Aroclor 1016 (5)	6.606	137001	33.001	ng/ml
7) Aroclor 1016 (6)	6.727	55767	19.012	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.161	12373	11.431	ng/ml
10) Aroclor 1221 (2)	5.285	11175	15.573	ng/ml
11) Aroclor 1221 (3)	5.376	82403	35.213	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.376	82403	46.394	ng/ml
14) Aroclor 1232 (2)	6.139	48961	17.611	ng/ml
15) Aroclor 1232 (3)	6.235	31182	21.256	ng/ml
16) Aroclor 1232 (4)	6.379	160805	141.136	ng/ml
17) Aroclor 1232 (5)	6.606	137001	95.406	ng/ml
18) Aroclor 1232 (6)	6.727	55767	46.545	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	<del>5.765</del> 5.727	<del>52621</del>	<del>19.812</del>	ng/ml 3.075MI
21) Aroclor 1242 (2)	6.139	48961	9.439	ng/ml
22) Aroclor 1242 (3)	6.235	31182	11.057	ng/ml
23) Aroclor 1242 (4)	6.379	160805	70.246	ng/ml
24) Aroclor 1242 (5)	6.606	137001	45.901	ng/ml
25) Aroclor 1242 (6)	6.727	55767	22.225	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.139	48961	14.386	ng/ml
28) Aroclor 1248 (2)	6.379	160805	35.614	ng/ml
29) Aroclor 1248 (3)	6.606	137001	26.251	ng/ml
30) Aroclor 1248 (4)	6.897	125206	21.568	ng/ml
31) Aroclor 1248 (5)	6.930	684564	111.143	ng/ml
32) Aroclor 1248 (6)	7.417	1452147	424.925	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.930	684564	114.130	ng/ml
35) Aroclor 1254 (2)	7.042	978939	134.330	ng/ml
36) Aroclor 1254 (3)	7.417	1452147	129.541	ng/ml
37) Aroclor 1254 (4)	7.583	651954	91.438	ng/ml
38) Aroclor 1254 (5)	7.958	2563039	334.644	ng/ml
39) Aroclor 1254 (6)	8.251	299184	119.967	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.530	2104961	252.763	ng/ml
42) Aroclor 1260 (2)	7.665	3186386	312.317	ng/ml
43) Aroclor 1260 (3)	8.223	1463622	186.089	ng/ml
44) Aroclor 1260 (4)	8.393	4581015	246.047	ng/ml
45) Aroclor 1260 (5)	8.692	2849387	235.565	ng/ml
46) Aroclor 1260 (6)	9.086	868570	169.822	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

↑ MDL

R-02

↑ MDL

R-02

232.767

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F007.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 9:26  
 Operator : MJB / KAK  
 Sample : A9I0890-17  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:14:51 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.665	3186386	396.001 ng/ml
49) Aroclor 1262 (2)	7.989	1533386	136.604 ng/ml
50) Aroclor 1262 (3)	8.223	1463622	150.812 ng/ml
51) Aroclor 1262 (4)	8.393	4581015	221.733 ng/ml
52) Aroclor 1262 (5)	8.692	2849387	217.804 ng/ml
53) Aroclor 1262 (6)	9.086	868570	130.091 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.223	1463622	286.747 ng/ml
56) Aroclor 1268 (2)	8.641	900254	36.707 ng/ml
57) Aroclor 1268 (3)	8.692	2849387	139.579 ng/ml
58) Aroclor 1268 (4)	8.853	887415	46.332 ng/ml
59) Aroclor 1268 (5)	9.086	868570	112.077 ng/ml
60) Aroclor 1268 (6)	9.346	1062901	20.330 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

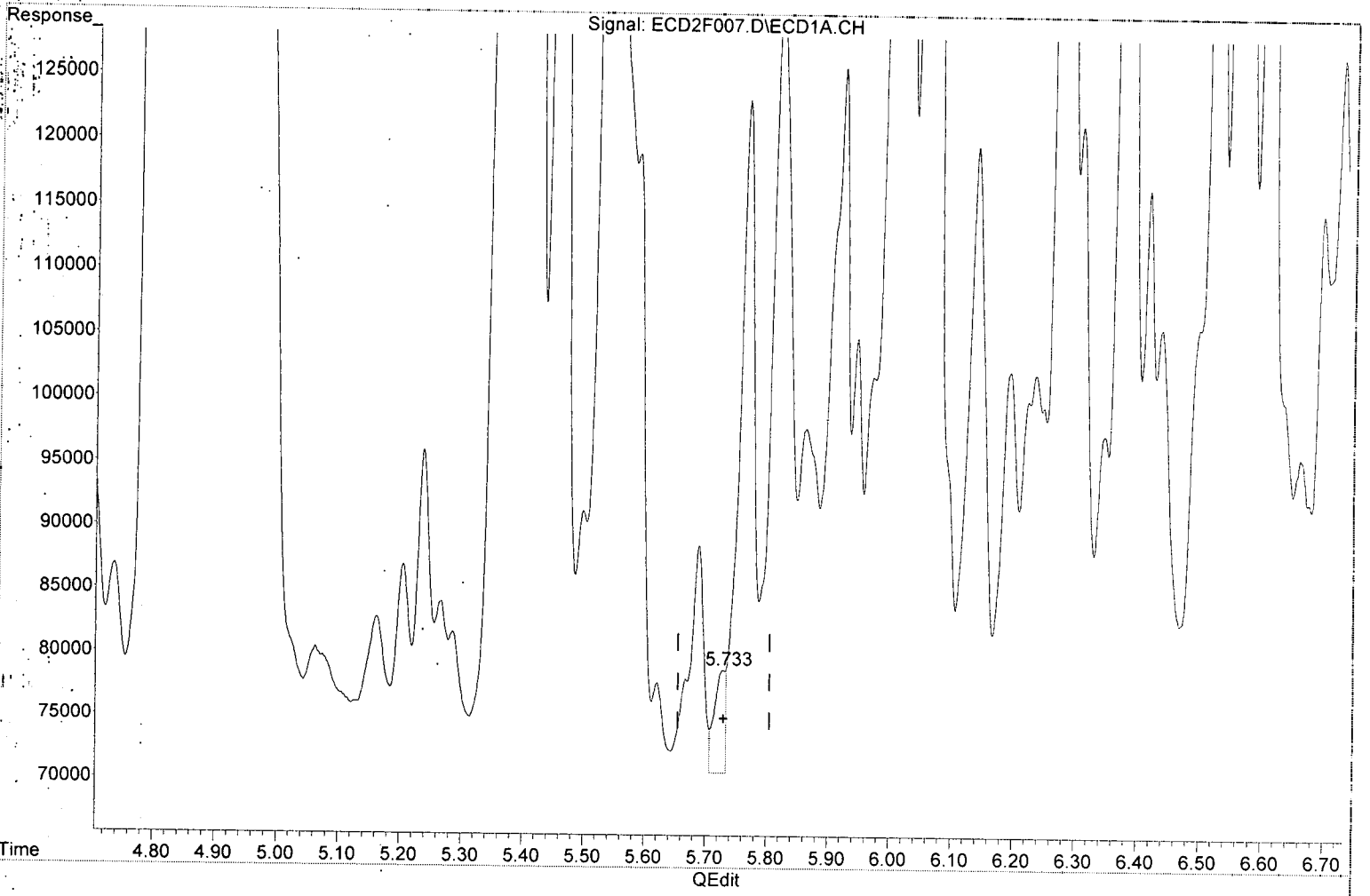
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Qedit)

Data Path : K:\DATA\9L16015\  
Data File : ECD2F007.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 9:26  
Operator : MJB / KAK  
Sample : A9I0890-17  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:14:51 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(2) Aroclor 1016 (1)

5.733min 2.190 ng/ml

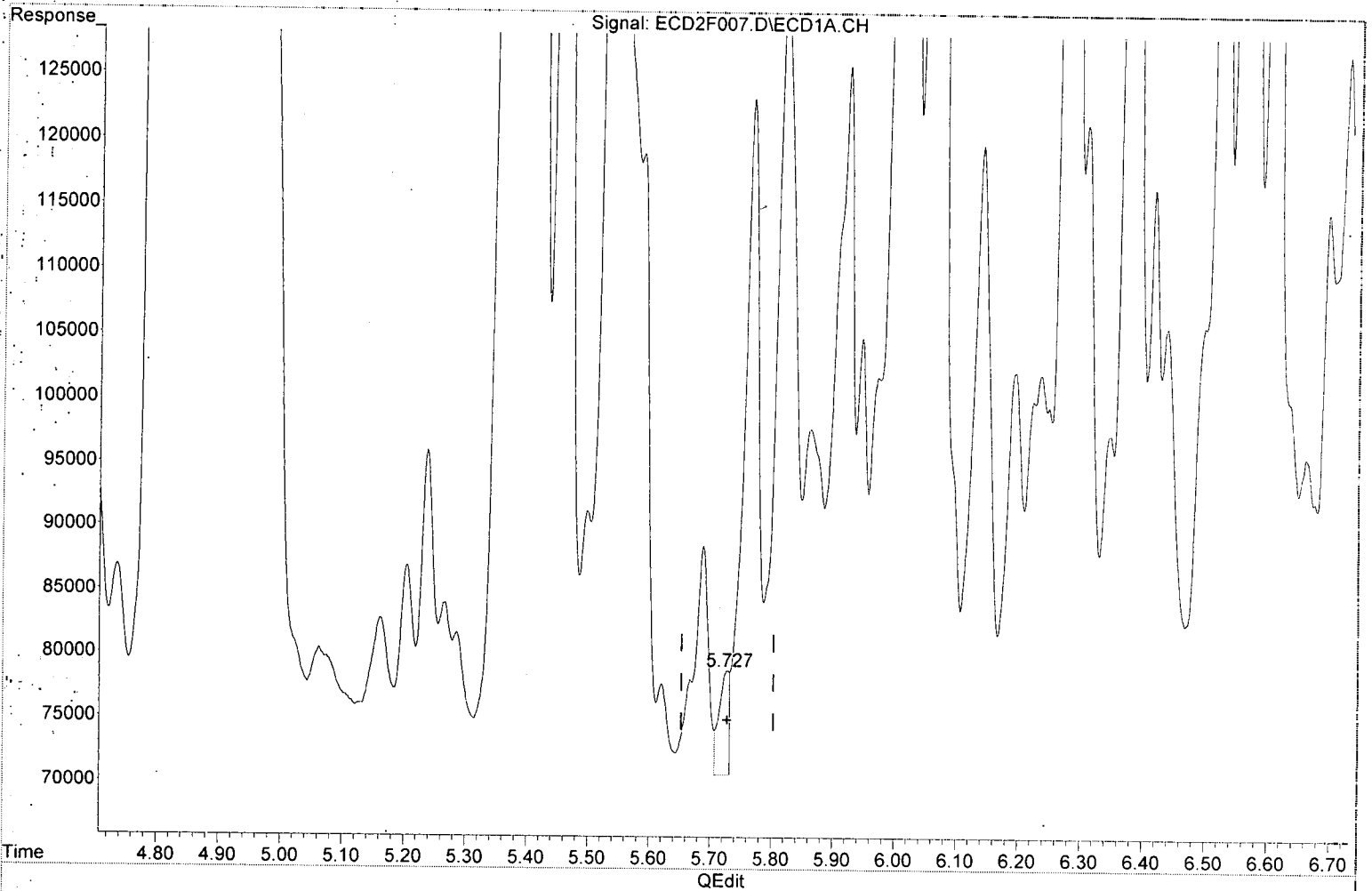
response 8186

*MJB* 12/18/19

Quantitation Report (Qedit)

Data Path : K:\DATA\9L16015\  
Data File : ECD2F007.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 9:26  
Operator : MJB / KAK  
Sample : A9I0890-17  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:14:51 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Aroclor 1242 (1)

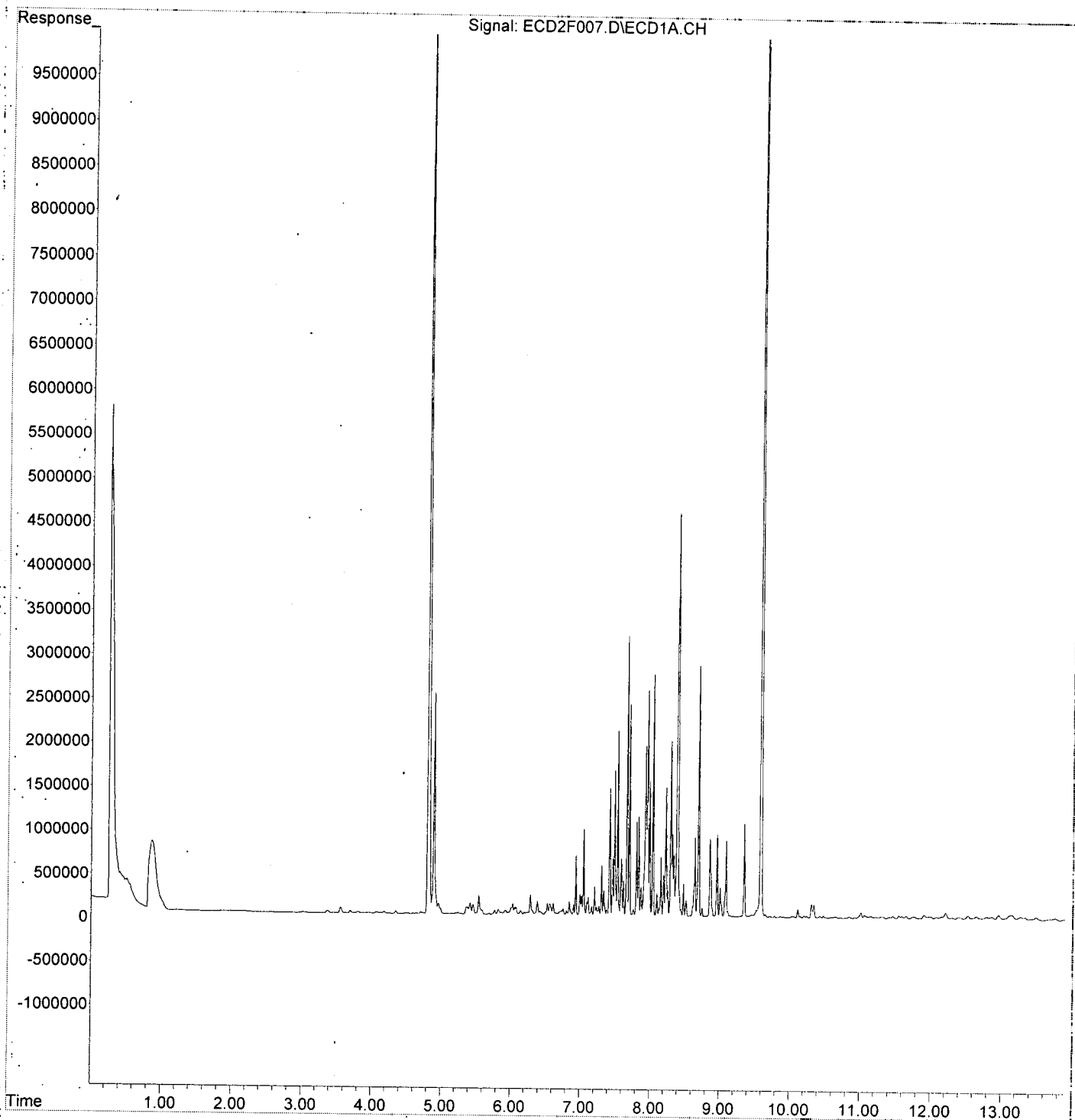
5.727min 3.075 ng/ml

response 8167

*MJB* 12/18/19

Data Path : K:\DATA\9L16015\  
Data File : ECD2F007.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 9:26  
Operator : MJB / KAK  
Sample : A9I0890-17  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:14:51 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
Last Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path: K:\DATA\9L16015\  
 Data File: ECD2F009.D  
 Signal(s): ECD1A.CH  
 Acq On : 16 Dec 2019 10:01  
 Operator : MJB / KAK  
 Sample : 9120609-MS1  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:15:12 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 12/18/19

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	4.808	11718515	175.986	ng/ml
62) S DCBP (S)	9.582	17281811	154.751	ng/ml
<b>Target Compounds</b>				
2) Aroclor 1016 (1)	5.727	2036213	544.739	ng/ml
3) Aroclor 1016 (2)	6.138	4724646	656.757	ng/ml
4) Aroclor 1016 (3)	6.221	2336862	588.197	ng/ml
5) Aroclor 1016 (4)	6.380	2007150	561.071	ng/ml
6) Aroclor 1016 (5)	6.602	2234457	538.231	ng/ml
7) Aroclor 1016 (6)	6.727	1484876	506.226	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.163	201471	186.128	ng/ml
10) Aroclor 1221 (2)	5.283	218924	305.092	ng/ml
11) Aroclor 1221 (3)	5.363	1158657	495.128	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.363	1158657	652.334	ng/ml
14) Aroclor 1232 (2)	6.138	4724646	1699.401	ng/ml
15) Aroclor 1232 (3)	6.221	2336862	1593.017	ng/ml
16) Aroclor 1232 (4)	6.380	2007150	1761.639	ng/ml
17) Aroclor 1232 (5)	6.602	2234457	1556.051	ng/ml
18) Aroclor 1232 (6)	6.727	1484876	1239.337	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.727	2036213	766.639	ng/ml
21) Aroclor 1242 (2)	6.138	4724646	910.848	ng/ml
22) Aroclor 1242 (3)	6.221	2336862	828.624	ng/ml
23) Aroclor 1242 (4)	6.380	2007150	876.798	ng/ml
24) Aroclor 1242 (5)	6.602	2234457	748.636	ng/ml
25) Aroclor 1242 (6)	6.727	1484876	591.768	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.138	4724646	1388.256	ng/ml
28) Aroclor 1248 (2)	6.380	2007150	444.530	ng/ml
29) Aroclor 1248 (3)	6.602	2234457	428.150	ng/ml
30) Aroclor 1248 (4)	6.897	501262	86.348	ng/ml
31) Aroclor 1248 (5)	6.930	2175470	353.201	ng/ml
32) Aroclor 1248 (6)	7.418	4503297	1317.749	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.930	2175470	362.692	ng/ml
35) Aroclor 1254 (2)	7.041	2537284	348.166	ng/ml
36) Aroclor 1254 (3)	7.418	4503297	401.722	ng/ml
37) Aroclor 1254 (4)	7.579	914800	128.302	ng/ml
38) Aroclor 1254 (5)	7.959	6527793	852.305	ng/ml
39) Aroclor 1254 (6)	8.250	651566	261.265	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.531	6622569	795.237	ng/ml
42) Aroclor 1260 (2)	7.666	8865389	868.952	ng/ml
43) Aroclor 1260 (3)	8.222	5625386	715.229	ng/ml
44) Aroclor 1260 (4)	8.394	15140978	813.224	ng/ml
45) Aroclor 1260 (5)	8.692	9718908	803.483	ng/ml
46) Aroclor 1260 (6)	9.085	3526315	689.460	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Q-01 ✓

Q-01 ✓



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F009.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 10:01  
 Operator : MJB / KAK  
 Sample : 9120609-MS1  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:15:12.2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

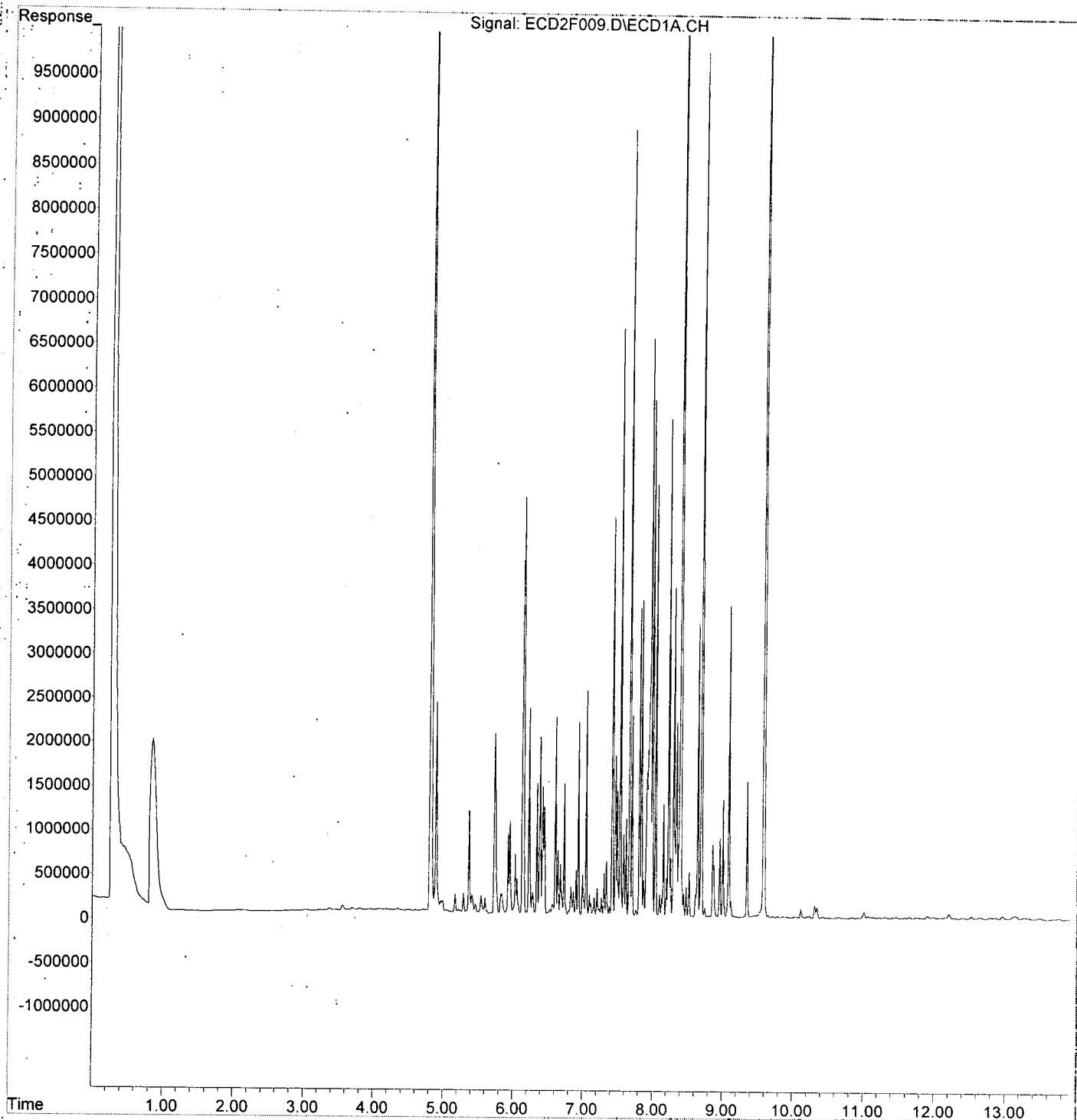
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.666	8865389	1101.782 ng/ml
49) Aroclor 1262 (2)	7.989	5838187	520.102 ng/ml
50) Aroclor 1262 (3)	8.222	5625386	579.642 ng/ml
51) Aroclor 1262 (4)	8.394	15140978	732.861 ng/ml
52) Aroclor 1262 (5)	8.692	9718908	742.902 ng/ml
53) Aroclor 1262 (6)	9.085	3526315	528.157 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.222	5625386	1102.101 ng/ml
56) Aroclor 1268 (2)	8.641	3309566	134.943 ng/ml
57) Aroclor 1268 (3)	8.692	9718908	476.086 ng/ml
58) Aroclor 1268 (4)	8.853	815455	42.575 ng/ml
59) Aroclor 1268 (5)	9.085	3526315	455.024 ng/ml
60) Aroclor 1268 (6)	9.346	1536738	29.392 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\9L16015\  
Data File : ECD2F009.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 10:01  
Operator : MJB / KAK  
Sample : 9120609-MS1  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:15:12 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path: K:\DATA\9L16015\  
 Data File: ECD2F011.D  
 Signal(s): ECD1A.CH  
 Acq On: 16 Dec 2019 10:36  
 Operator: MJB / KAK  
 Sample: 9120609-MSD1  
 Misc:  
 ALS Vial: 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:15:34 2019  
 Quant Method: K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title: PCB Data Analysis  
 QLast Update: Wed Dec 04 15:29:22 2019  
 Response via: Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten Signature]*  
 12/18/19

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	4.807	10222795	153.524	ng/ml
62) S DCBP (S)	9.583	15260181	136.648	ng/ml
<b>Target Compounds</b>				
2) Aroclor 1016 (1)	5.727	1763490	471.779	ng/ml
3) Aroclor 1016 (2)	6.138	4112570	571.674	ng/ml
4) Aroclor 1016 (3)	6.220	1922898	484.000	ng/ml
5) Aroclor 1016 (4)	6.380	1757839	491.380	ng/ml
6) Aroclor 1016 (5)	6.601	1884534	453.942	ng/ml
7) Aroclor 1016 (6)	6.726	1292444	440.621	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.163	181428	167.611	ng/ml
10) Aroclor 1221 (2)	5.283	192110	267.723	ng/ml
11) Aroclor 1221 (3)	5.362	1003508	428.829	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.362	1003508	564.984	ng/ml
14) Aroclor 1232 (2)	6.138	4112570	1479.245	ng/ml
15) Aroclor 1232 (3)	6.220	1922898	1310.822	ng/ml
16) Aroclor 1232 (4)	6.380	1757839	1542.824	ng/ml
17) Aroclor 1232 (5)	6.601	1884534	1312.369	ng/ml
18) Aroclor 1232 (6)	6.726	1292444	1078.725	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.727	1763490	663.958	ng/ml
21) Aroclor 1242 (2)	6.138	4112570	792.848	ng/ml
22) Aroclor 1242 (3)	6.220	1922898	681.838	ng/ml
23) Aroclor 1242 (4)	6.380	1757839	767.890	ng/ml
24) Aroclor 1242 (5)	6.601	1884534	631.397	ng/ml
25) Aroclor 1242 (6)	6.726	1292444	515.078	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.138	4112570	1208.409	ng/ml
28) Aroclor 1248 (2)	6.380	1757839	389.315	ng/ml
29) Aroclor 1248 (3)	6.601	1884534	361.101	ng/ml
30) Aroclor 1248 (4)	6.897	460963	79.406	ng/ml
31) Aroclor 1248 (5)	6.929	1908182	309.805	ng/ml
32) Aroclor 1248 (6)	7.418	3993253	1168.500	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.929	1908182	318.130	ng/ml
35) Aroclor 1254 (2)	7.041	2304701	316.251	ng/ml
36) Aroclor 1254 (3)	7.418	3993253	356.223	ng/ml
37) Aroclor 1254 (4)	7.578	831418	116.608	ng/ml
38) Aroclor 1254 (5)	7.958	6177427	806.559	ng/ml
39) Aroclor 1254 (6)	8.250	553742	222.040	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.530	5800006	696.464	ng/ml
42) Aroclor 1260 (2)	7.664	8321259	815.618	ng/ml
43) Aroclor 1260 (3)	8.221	4888901	621.590	ng/ml
44) Aroclor 1260 (4)	8.392	13837725	743.226	ng/ml
45) Aroclor 1260 (5)	8.691	8363208	691.404	ng/ml
46) Aroclor 1260 (6)	9.085	3157621	617.374	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

✓ Q-01

✓ Q-01

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F011.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 10:36  
 Operator : MJB / KAK  
 Sample : 9120609-MSD1  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:15:34 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

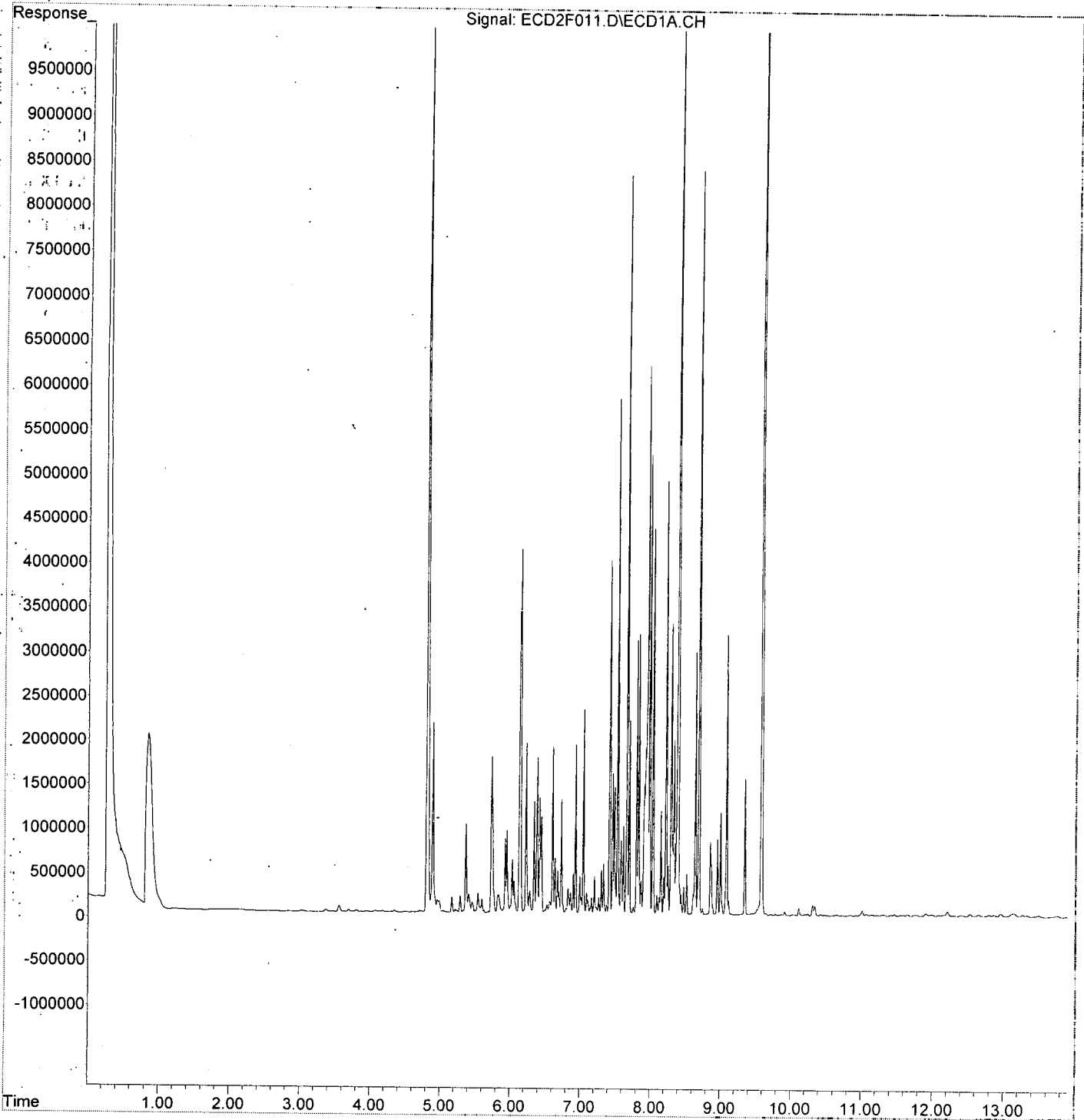
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.664	8321259	1034.158 ng/ml
49) Aroclor 1262 (2)	7.989	5191846	462.522 ng/ml
50) Aroclor 1262 (3)	8.221	4888901	503.754 ng/ml
51) Aroclor 1262 (4)	8.392	13837725	669.780 ng/ml
52) Aroclor 1262 (5)	8.691	8363208	639.274 ng/ml
53) Aroclor 1262 (6)	9.085	3157621	472.936 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.221	4888901	957.812 ng/ml
56) Aroclor 1268 (2)	8.640	2963251	120.823 ng/ml
57) Aroclor 1268 (3)	8.691	8363208	409.676 ng/ml
58) Aroclor 1268 (4)	8.853	823128	42.976 ng/ml
59) Aroclor 1268 (5)	9.085	3157621	407.449 ng/ml
60) Aroclor 1268 (6)	9.345	1538415	29.424 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\9L16015\  
Data File : ECD2F011.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 10:36  
Operator : MJB / KAK  
Sample : 9120609-MSD1  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:15:34 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F013.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 11:12  
 Operator : MJB / KAK  
 Sample : A9I0890-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:15:55 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 12/18/19  
 1266  
 P-09

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	4.807	12785161	192.005	ng/ml
62) S DCBP (S)	9.581	19101856	171.048	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	<del>5.766</del> 5.743	64910	<del>17.365</del>	ng/ml <del>2.605MI</del> 12/18/19
3) Aroclor 1016 (2)	6.138	50846	7.068	ng/ml 2.065MI
4) Aroclor 1016 (3)	6.230	33902	8.533	ng/ml
5) Aroclor 1016 (4)	6.379	110687	30.941	ng/ml
6) Aroclor 1016 (5)	6.605	89370	21.527	ng/ml
7) Aroclor 1016 (6)	6.723	32727	11.157	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.163	7502	6.931	ng/ml
10) Aroclor 1221 (2)	5.283	8798	12.261	ng/ml
11) Aroclor 1221 (3)	5.376	95196	40.680	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.376	95196	53.596	ng/ml
14) Aroclor 1232 (2)	6.138	50846	18.289	ng/ml
15) Aroclor 1232 (3)	6.230	33902	23.110	ng/ml
16) Aroclor 1232 (4)	6.379	110687	97.148	ng/ml
17) Aroclor 1232 (5)	6.605	89370	62.236	ng/ml
18) Aroclor 1232 (6)	6.723	32727	27.315	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	<del>5.766</del> 5.737	<del>64910</del>	<del>24.439</del>	ng/ml 2.351MI
21) Aroclor 1242 (2)	6.138	50846	9.802	ng/ml
22) Aroclor 1242 (3)	6.230	33902	12.021	ng/ml
23) Aroclor 1242 (4)	6.379	110687	48.352	ng/ml
24) Aroclor 1242 (5)	6.605	89370	29.943	ng/ml
25) Aroclor 1242 (6)	6.723	32727	13.043	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.138	50846	14.940	ng/ml
28) Aroclor 1248 (2)	6.379	110687	24.514	ng/ml
29) Aroclor 1248 (3)	6.605	89370	17.124	ng/ml
30) Aroclor 1248 (4)	6.897	80944	13.944	ng/ml
31) Aroclor 1248 (5)	6.929	626738	101.755	ng/ml
32) Aroclor 1248 (6)	7.417	1528767	447.346	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.929	626738	104.489	ng/ml
35) Aroclor 1254 (2)	7.042	1050140	144.100	ng/ml
36) Aroclor 1254 (3)	7.417	1528767	136.376	ng/ml
37) Aroclor 1254 (4)	7.580	461814	64.770	ng/ml
38) Aroclor 1254 (5)	7.958	3252085	424.610	ng/ml
39) Aroclor 1254 (6)	8.249	335208	134.412	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.530	2447124	293.850	ng/ml
42) Aroclor 1260 (2)	7.664	3860460	378.388	ng/ml
43) Aroclor 1260 (3)	8.221	1687500	214.554	ng/ml
44) Aroclor 1260 (4)	8.391	5506041	295.730	ng/ml
45) Aroclor 1260 (5)	8.691	3471172	286.969	ng/ml
46) Aroclor 1260 (6)	9.084	950881	185.915	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

P-02  
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275.901

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F013.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 11:12  
 Operator : MJB / KAK  
 Sample : A9I0890-18  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:15:55 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.664	3860460	479.774	ng/ml
49) Aroclor 1262 (2)	7.989	1713958	152.690	ng/ml
50) Aroclor 1262 (3)	8.221	1687500	173.881	ng/ml
51) Aroclor 1262 (4)	8.391	5506041	266.506	ng/ml
52) Aroclor 1262 (5)	8.691	3471172	265.332	ng/ml
53) Aroclor 1262 (6)	9.084	950881	142.419	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.221	1687500	330.608	ng/ml
56) Aroclor 1268 (2)	8.639	823422	33.574	ng/ml
57) Aroclor 1268 (3)	8.691	3471172	170.037	ng/ml
58) Aroclor 1268 (4)	8.867	382217	19.956	ng/ml
59) Aroclor 1268 (5)	9.084	950881	122.698	ng/ml
60) Aroclor 1268 (6)	9.344	818955	15.664	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

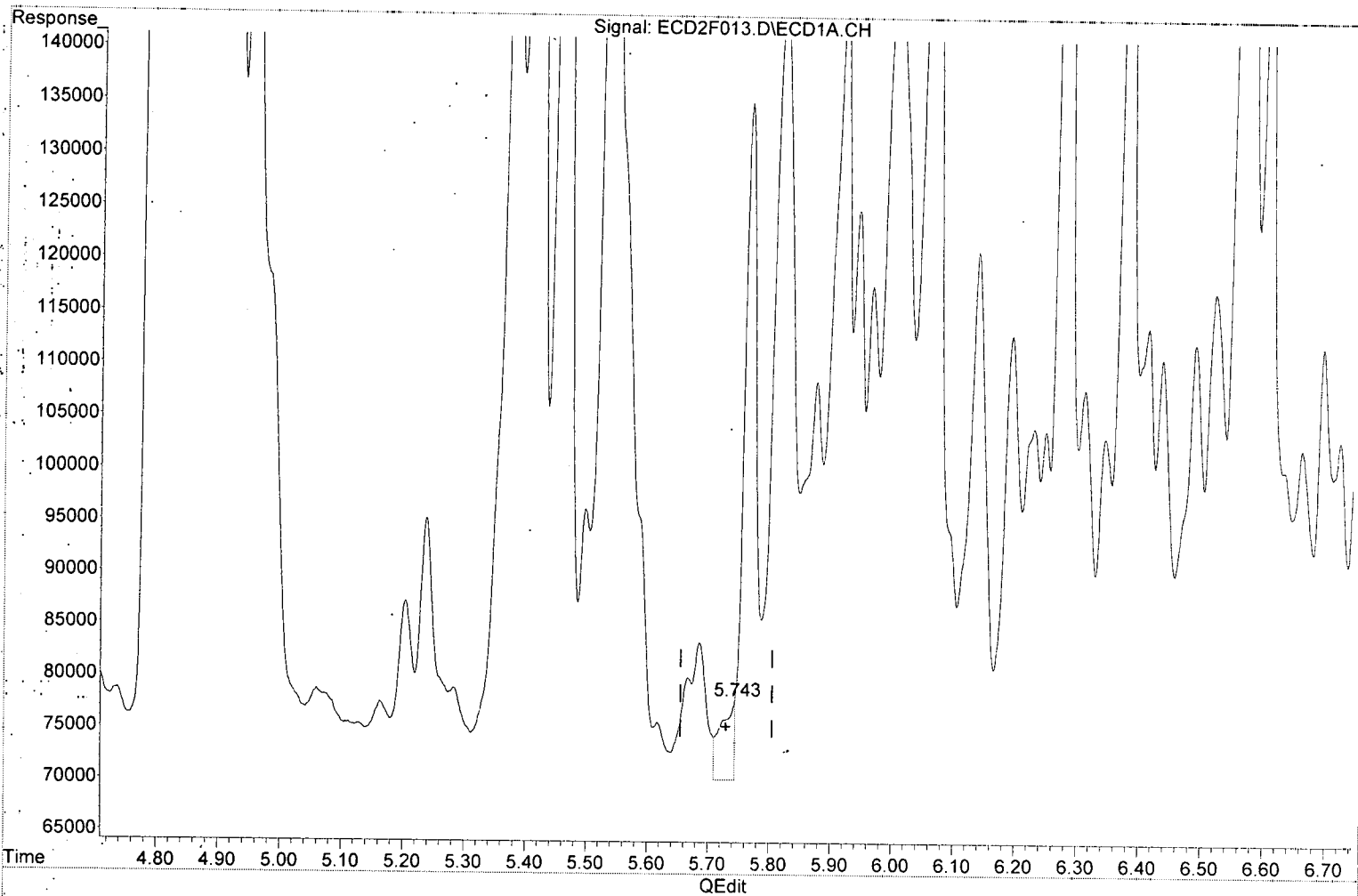
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Qedit)

Data Path : K:\DATA\9L16015\  
Data File : ECD2F013.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 11:12  
Operator : MJB / KAK  
Sample : A9I0890-18  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:15:55 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(2) Aroclor 1016 (1)

5.743min 2.065 ng/ml

response 7719

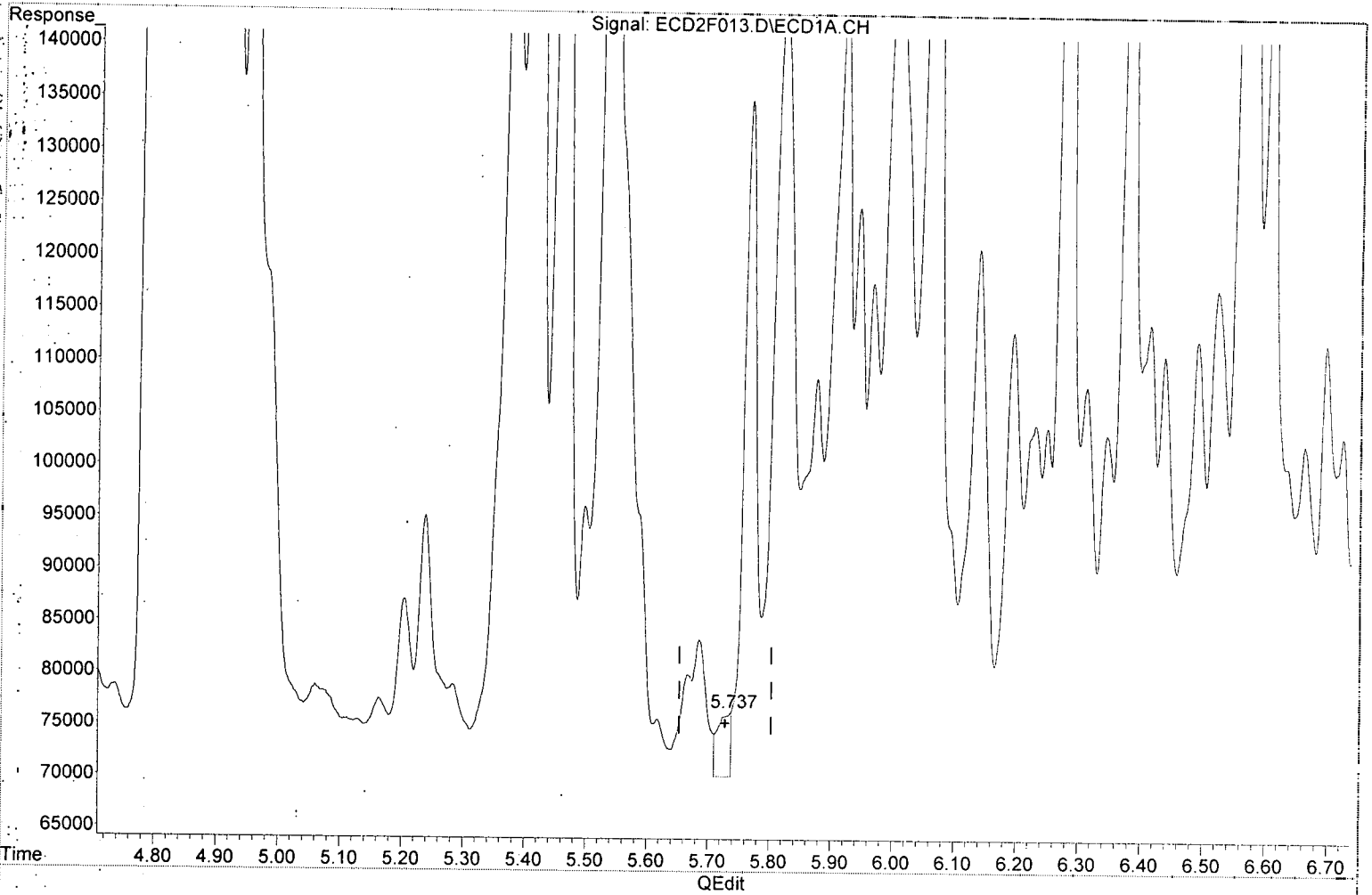
*MJB* 12/18/19



Quantitation Report (Qedit)

Data Path : K:\DATA\9L16015\  
Data File : ECD2F013.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 11:12  
Operator : MJB / KAK  
Sample : A9I0890-18  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:15:55 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Aroclor 1242 (1)

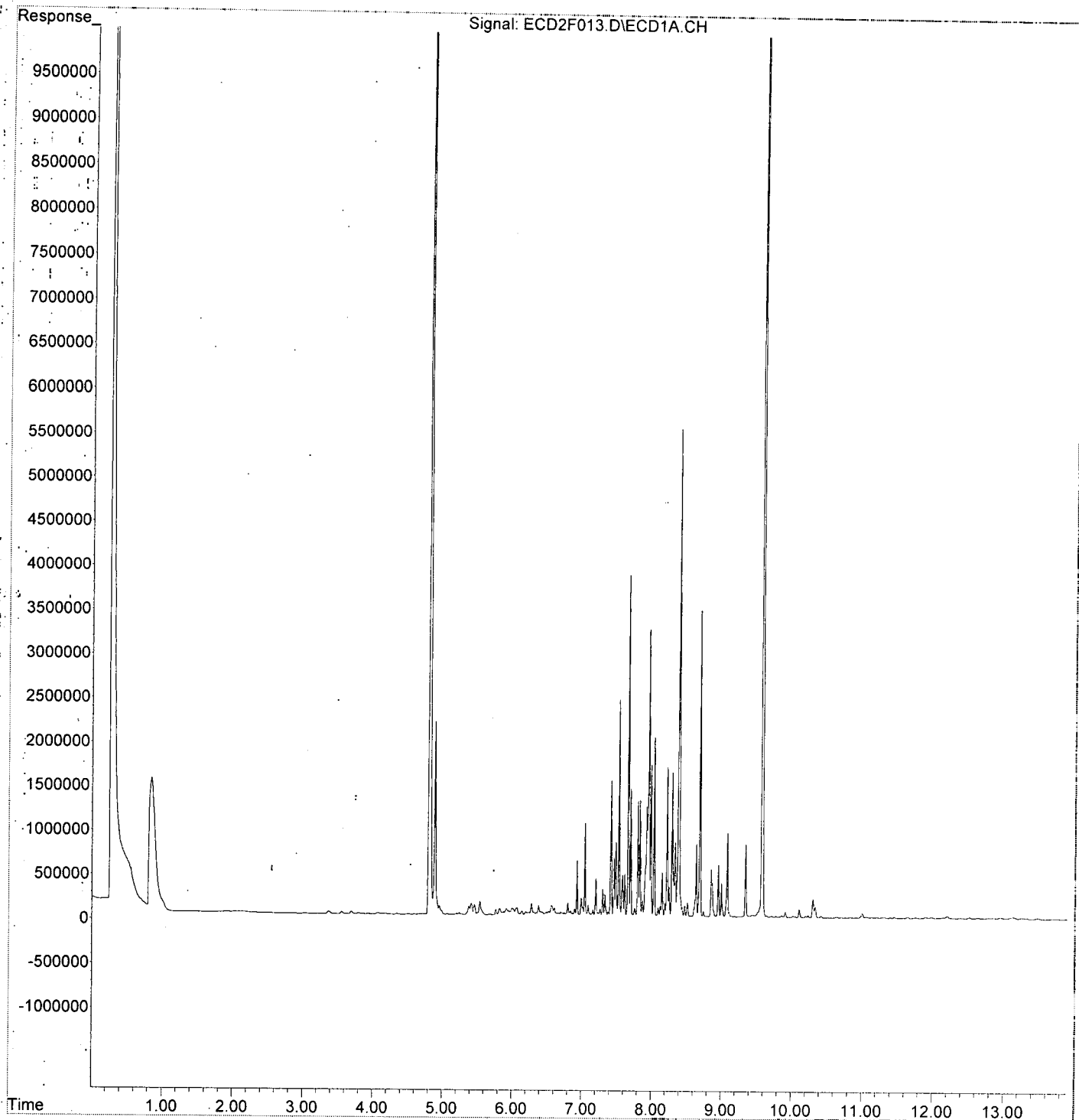
5.737min 2.351 ng/ml

response 6243

*MJB*  
12/18/19

Data Path : K:\DATA\9L16015\  
Data File : ECD2F013.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 11:12  
Operator : MJB / KAK  
Sample : A9I0890-18  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:15:55 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F015.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 11:47  
 Operator : MJB / KAK  
 Sample : 9L16015-CCV2  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:16:17 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/18/19*

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.811	14976985	224.921 ng/ml
62) S DCBP (S)	9.579	30845661	276.209 ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.729	1651503	441.820 ng/ml
3) Aroclor 1016 (2)	6.143	3415586	474.789 ng/ml
4) Aroclor 1016 (3)	6.225	1785038	449.301 ng/ml
5) Aroclor 1016 (4)	6.380	1707649	477.350 ng/ml
6) Aroclor 1016 (5)	6.603	2009532	484.051 ng/ml
7) Aroclor 1016 (6)	6.729	1374167	468.483 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.167	155148	143.333 ng/ml
10) Aroclor 1221 (2)	5.286	170645	237.810 ng/ml
11) Aroclor 1221 (3)	5.368	717093	306.435 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.368	717093	403.730 ng/ml
14) Aroclor 1232 (2)	6.143	3415586	1228.547 ng/ml
15) Aroclor 1232 (3)	6.225	1785038	1216.844 ng/ml
16) Aroclor 1232 (4)	6.380	1707649	1498.773 ng/ml
17) Aroclor 1232 (5)	6.603	2009532	1399.415 ng/ml
18) Aroclor 1232 (6)	6.729	1374167	1146.934 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.729	1651503	621.795 ng/ml
21) Aroclor 1242 (2)	6.143	3415586	658.479 ng/ml
22) Aroclor 1242 (3)	6.225	1785038	632.954 ng/ml
23) Aroclor 1242 (4)	6.380	1707649	745.965 ng/ml
24) Aroclor 1242 (5)	6.603	2009532	673.276 ng/ml
25) Aroclor 1242 (6)	6.729	1374167	547.647 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.143	3415586	1003.612 ng/ml
28) Aroclor 1248 (2)	6.380	1707649	378.199 ng/ml
29) Aroclor 1248 (3)	6.603	2009532	385.052 ng/ml
30) Aroclor 1248 (4)	6.897	384455	66.227 ng/ml
31) Aroclor 1248 (5)	6.930	1358803	220.610 ng/ml
32) Aroclor 1248 (6)	7.418	3020690	883.910 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.930	1358803	226.538 ng/ml
35) Aroclor 1254 (2)	7.040	1418227	194.609 ng/ml
36) Aroclor 1254 (3)	7.418	3020690	269.464 ng/ml
37) Aroclor 1254 (4)	7.578	416863	58.466 ng/ml
38) Aroclor 1254 (5)	7.958	3939316	514.339 ng/ml
39) Aroclor 1254 (6)	8.249	408028	163.611 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.530	4088579	490.956 ng/ml
42) Aroclor 1260 (2)	7.664	4991540	489.252 ng/ml
43) Aroclor 1260 (3)	8.220	3806892	484.020 ng/ml
44) Aroclor 1260 (4)	8.390	9128118	490.272 ng/ml
45) Aroclor 1260 (5)	8.690	5874904	485.691 ng/ml
46) Aroclor 1260 (6)	9.081	2374191	464.199 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

✓

✓

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F015.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 11:47  
 Operator : MJB / KAK  
 Sample : 9L16015-CCV2  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:16:17 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

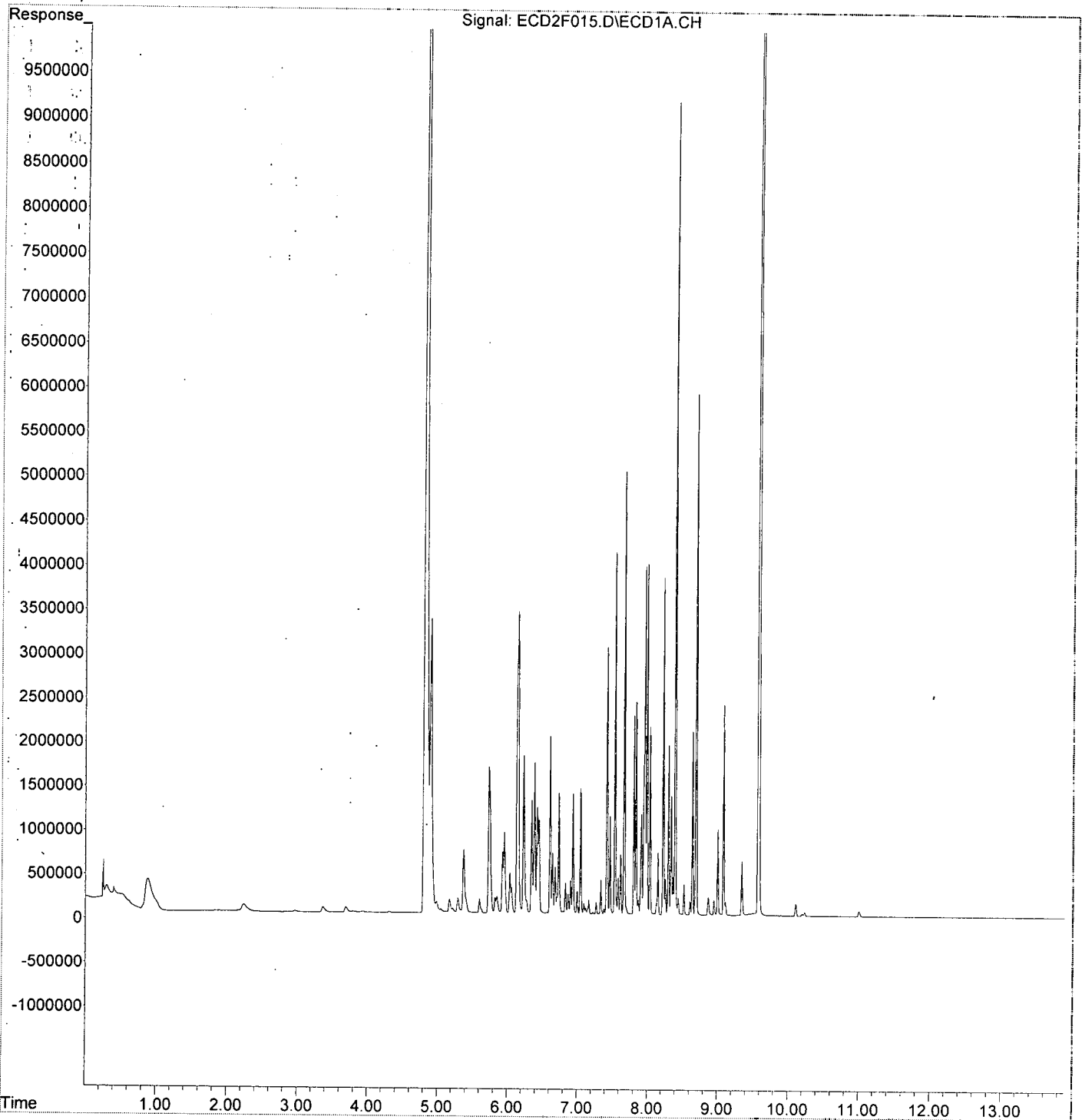
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.664	4991540	620.343 ng/ml
49) Aroclor 1262 (2)	7.988	3956520	352.472 ng/ml
50) Aroclor 1262 (3)	8.220	3806892	392.264 ng/ml
51) Aroclor 1262 (4)	8.390	9128118	441.824 ng/ml
52) Aroclor 1262 (5)	8.690	5874904	449.071 ng/ml
53) Aroclor 1262 (6)	9.081	2374191	355.597 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.220	3806892	745.830 ng/ml
56) Aroclor 1268 (2)	8.638	2070586	84.425 ng/ml
57) Aroclor 1268 (3)	8.690	5874904	287.785 ng/ml
58) Aroclor 1268 (4)	8.865	202438	10.569 ng/ml
59) Aroclor 1268 (5)	9.081	2374191	306.358 ng/ml
60) Aroclor 1268 (6)	9.341	608235	11.633 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\9L16015\  
Data File : ECD2F015.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 11:47  
Operator : MJB / KAK  
Sample : 9L16015-CCV2  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:16:17 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L16015\  
 Data File : ECD2F016.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 12:04  
 Operator : MJB / KAK  
 Sample : 9L16015-CCB2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:16:38 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 Quant Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 12/18/19  
 Clean

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.813	6016911	90.361 ng/ml
62) S DCBP (S)	9.578	12302053	110.159 ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.723	4163	1.114 ng/ml
3) Aroclor 1016 (2)	6.148	6169	0.858 ng/ml
4) Aroclor 1016 (3)	6.238	4783	1.204 ng/ml
5) Aroclor 1016 (4)	6.375	2010	0.562 ng/ml
6) Aroclor 1016 (5)	6.611	3557	0.857 ng/ml
7) Aroclor 1016 (6)	6.735	2997	1.022 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.169	9694	8.956 ng/ml
10) Aroclor 1221 (2)	5.292	8887	12.384 ng/ml
11) Aroclor 1221 (3)	5.359	8617	3.682 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.359	8617	4.851 ng/ml
14) Aroclor 1232 (2)	6.148	6169	2.219 ng/ml
15) Aroclor 1232 (3)	6.238	4783	3.261 ng/ml
16) Aroclor 1232 (4)	6.375	2010	1.764 ng/ml
17) Aroclor 1232 (5)	6.611	3557	2.477 ng/ml
18) Aroclor 1232 (6)	6.735	2997	2.501 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.723	4163	1.567 ng/ml
21) Aroclor 1242 (2)	6.148	6169	1.189 ng/ml
22) Aroclor 1242 (3)	6.238	4783	1.696 ng/ml
23) Aroclor 1242 (4)	6.375	2010	0.878 ng/ml
24) Aroclor 1242 (5)	6.611	3557	1.192 ng/ml
25) Aroclor 1242 (6)	6.735	2997	1.194 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.119	2239	0.658 ng/ml
28) Aroclor 1248 (2)	6.375	2010	0.445 ng/ml
29) Aroclor 1248 (3)	6.611	3557	0.682 ng/ml
30) Aroclor 1248 (4)	6.901	1774	0.306 ng/ml
31) Aroclor 1248 (5)	6.938	1990	0.323 ng/ml
32) Aroclor 1248 (6)	7.417	3992	1.168 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.938	1990	0.332 ng/ml
35) Aroclor 1254 (2)	7.044	2831	0.388 ng/ml
36) Aroclor 1254 (3)	7.417	3992	0.356 ng/ml
37) Aroclor 1254 (4)	7.579	3222	0.452 ng/ml
38) Aroclor 1254 (5)	7.963	5531	0.722 ng/ml
39) Aroclor 1254 (6)	8.252	949	0.380 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.531	3799	0.456 ng/ml
42) Aroclor 1260 (2)	7.666	6598	0.647 ng/ml
43) Aroclor 1260 (3)	8.221	1439	0.183 ng/ml
44) Aroclor 1260 (4)	8.391	10154	0.545 ng/ml
45) Aroclor 1260 (5)	8.692	3758	0.311 ng/ml
46) Aroclor 1260 (6)	9.079	3070	0.600 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\9L16015\  
 Data File : ECD2F016.D  
 Signal(s) : ECD1A.CH  
 Acq On : 16 Dec 2019 12:04  
 Operator : MJB / KAK  
 Sample : 9L16015-CCB2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 18 09:16:38 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

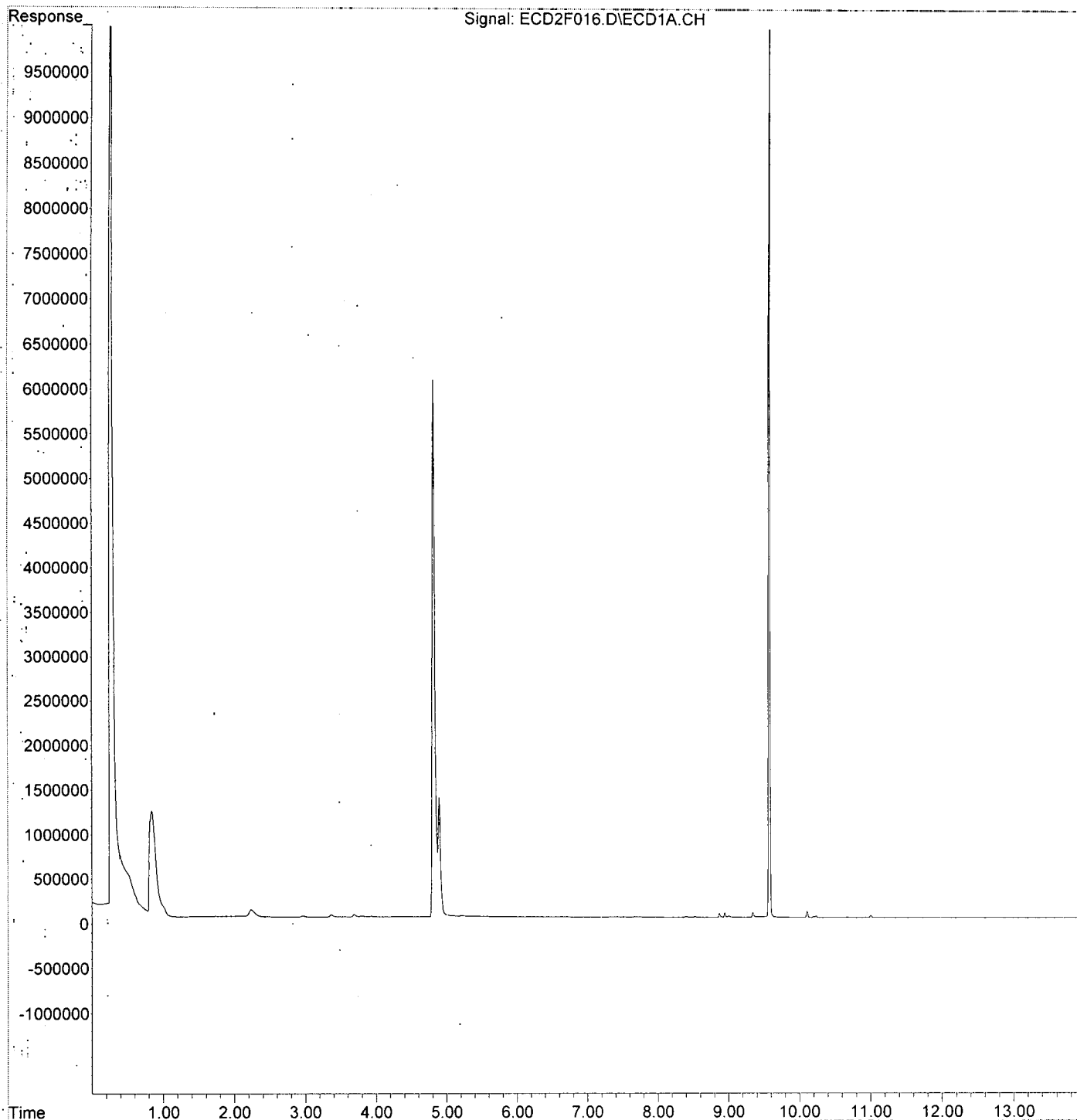
	Compound	R.T.	Response	Conc Units
48)	Aroclor 1262 (1)	7.666	6598	0.820 ng/ml
49)	Aroclor 1262 (2)	7.988	3596	0.320 ng/ml
50)	Aroclor 1262 (3)	8.221	1439	0.148 ng/ml
51)	Aroclor 1262 (4)	8.391	10154	0.491 ng/ml
52)	Aroclor 1262 (5)	8.692	3758	0.287 ng/ml
53)	Aroclor 1262 (6)	9.079	3070	0.460 ng/ml
54)	Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55)	Aroclor 1268 (1)	8.221	1439	0.282 ng/ml
56)	Aroclor 1268 (2)	8.640	1908	0.078 ng/ml
57)	Aroclor 1268 (3)	8.692	3758	0.184 ng/ml
58)	Aroclor 1268 (4)	8.871	48904	2.553 ng/ml
59)	Aroclor 1268 (5)	9.079	3070	0.396 ng/ml
60)	Aroclor 1268 (6)	9.345	55266	1.057 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\9L16015\  
Data File : ECD2F016.D  
Signal(s) : ECD1A.CH  
Acq On : 16 Dec 2019 12:04  
Operator : MJB / KAK  
Sample : 9L16015-CCB2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 18 09:16:38 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





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

Batch 9121399  
Sequence 0A02025 (A9I0890-03RE1,04RE1)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

JAN 16 2020

BATCH #: 9121399 (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	5-11	>11
	9121399-BLK1	QC	12/30/19 09:02	31	2				100					
	9121399-BSD1	QC	12/30/19 09:02	30	2	A19L171		100	100					
	9121399-BS1	QC	12/30/19 09:02	30	2	A19L171		100	100					
	A910890-03RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.44	5				100	PDI-013SC-A-02-03-190925	Re-extract added 12/27/2019 by KAK			
	A910890-04RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.11	2				100	PDI-013SC-A-03-04-190925	Re-extract added 12/27/2019 by KAK			
	A9J0033-16RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.08	2				100	PDI-024SC-A-02-03-190927	Re-extract added 12/27/2019 by KAK			
	A9J0033-17RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.2	5				100	PDI-024SC-A-03-04-190927	Re-extract added 12/27/2019 by KAK			
	A9J0033-26RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.26	5				100	PDI-025SC-A-02-03-190927	Re-extract added 12/27/2019 by KAK			
	A9J0033-26RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.26	5				100	PDI-025SC-A-02-03-190927	Re-extract added 12/27/2019 by KAK			
	A9J0033-40RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.15	2				100	PDI-036SC-A-01-02-190929	Re-extract added 12/27/2019 by KAK			
	A9J0033-40RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.15	2				100	PDI-036SC-A-01-02-190929	Re-extract added 12/27/2019 by KAK			
	A9J0353-41RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.42	2				100	PDI-043SC-A-02-03-191008	Re-extract added 12/27/2019 by KAK			
	A9J0353-41RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.42	2				100	PDI-043SC-A-02-03-191008	Re-extract added 12/27/2019 by KAK			
	A9J0360-23RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.37	5				100	PDI-023SC-A-04-05-191009	Re-extract added 12/27/2019 by KAK			
	A9J0360-23RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.37	5				100	PDI-023SC-A-04-05-191009	Re-extract added 12/27/2019 by KAK			
	A9J0360-24RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.66	5				100	PDI-023SC-A-05-06-191009	Re-extract added 12/27/2019 by KAK			
	A9J0360-24RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.66	5				100	PDI-023SC-A-05-06-191009	Re-extract added 12/27/2019 by KAK			
	A9J0553-08RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.51	5				100	PDI-015SC-A-07-08-191012	Re-extract added 12/27/2019 by KAK			
	A9J0553-08RE3	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.51	5				100	PDI-015SC-A-07-08-191012	Re-extract added 12/27/2019 by KAK			

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

*[Signature]*  
Reviewed By: \_\_\_\_\_ Date 1/16/20

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9121399 (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
	A9J0594-05RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.17	2				100	PDI-026SC-A-04-05-191014	Re-extract added 12/27/2019 by KAK			
	A9J0594-16RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30.78	2				100	PDI-077SC-A-00-01-191014	Re-extract added 12/27/2019 by KAK			
	A9J0599-33	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.73	2				100	PDI-052SC-B-06-08-191015	+1262,1268			
	A9J0599-45	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.11	2				100	PDI-055SC-B-00-02-191015	+1262,1268			
	A9J0599-46	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.12	2				100	PDI-055SC-B-02-04-191015	+1262,1268			
	A9J0599-47	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.6	2				100	PDI-055SC-B-04-06-191015	+1262,1268			
	A9J0599-48	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.57	2				100	PDI-055SC-B-06-08-191015	+1262,1268			
	A9J0716-25	B 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.8	2				100	PDI-059SC-B-00-02-191016	+1262,1268			
	A9J0716-26	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.62	2				100	PDI-059SC-B-02-04-191016	+1262,1268			
	A9J0716-27	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30.11	2				100	PDI-059SC-B-04-06-191016	+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	A19L171	02/28/20	8082 PCB Matrix Spike	A19L272	06/20/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisil Lot 817211-CM						
A19G279	01/18/20	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						
A19L136	06/06/20	Sodium Sulfate Lot # 194950						

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_

# Apex Laboratories

## PREPARATION BENCH SHEET

**BATCH #: 9121399 (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	>11	
Method 3546 digestion time and temperture achieved.														
Initial:														
Witness: _____														

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**  
**BATCH #: 9121399 (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	8	>11
1	9121399-BLK1	QC	12/30/19 09:02	30.31	2 ✓				100					
3	9121399-BSD1	QC	12/30/19 09:02	30	2 ✓	A19L171		100	100					
5	9121399-BS1	QC	12/30/19 09:02	30	2 ✓	A19L171		100	100					
7	A9I0890-03RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.44	2 ✓ 5				100	PDI-013SC-A-02-03-190925	Re-extract added 12/27/2019 by KAK Sand, product sheet, odor			
9	A9I0890-04RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.11	2 ✓				100	PDI-013SC-A-03-04-190925	Re-extract added 12/27/2019 by KAK Sand			
11	A9J0033-16RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.08	2 ✓				100	PDI-024SC-A-02-03-190927	Re-extract added 12/27/2019 by KAK Sand, product, odor			
13	A9J0033-17RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.20	2 ✓ 5				100	PDI-024SC-A-03-04-190927	Re-extract added 12/27/2019 by KAK Sand			
15	A9J0033-26RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.26	2 ✓ 5				100	PDI-025SC-A-02-03-190927	Re-extract added 12/27/2019 by KAK Sand, odor			
17	A9J0033-40RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.15	2 ✓				100	PDI-036SC-A-01-02-190929	Re-extract added 12/27/2019 by KAK Sand			
19	A9J0353-41RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.42	2 ✓				100	PDI-043SC-A-02-03-191008	Re-extract added 12/27/2019 by KAK Sand, odor			
21	A9J0360-23RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.37	2 ✓ 5				100	PDI-023SC-A-04-05-191009	Re-extract added 12/27/2019 by KAK Sand/mud, odor			
23	A9J0360-24RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.66	2 ✓ 5				100	PDI-023SC-A-05-06-191009	Re-extract added 12/27/2019 by KAK Sand, odor			
25	A9J0553-08RE2	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.51	2 ✓ 5				100	PDI-015SC-A-07-08-191012	Re-extract added 12/27/2019 by KAK Sand, product sheet, odor			
27	A9J0594-05RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.17	2 ✓				100	PDI-026SC-A-04-05-191014	Re-extract added 12/27/2019 by KAK Sand, odor			
29	A9J0594-16RE1	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:02	30 30.78	2 ✓				100	PDI-077SC-A-00-01-191014	Re-extract added 12/27/2019 by KAK MUD			
31	A9J0599-33	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.73	2 ✓				100	PDI-052SC-B-06-08-191015	+1262,1268 MUD/Sand			
33	A9J0599-45	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.11	2 ✓				100	PDI-055SC-B-00-02-191015	+1262,1268 MUD			
35	A9J0599-46	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.12	2 ✓				100	PDI-055SC-B-02-04-191015	+1262,1268 MUD			
37	A9J0599-47	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.60	2 ✓				100	PDI-055SC-B-04-06-191015	+1262,1268 MUD/Sand			

Prepared By: [Signature] Date: 12/30/19

Reviewed By: SCG Date: 12/30/2019

# Apex Laboratories

## PREPARATION BENCH SHEET

BATCH #: 9121399 (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	2-6	>11
39 40	A9J0599-48	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.57	2	/			100	PDI-055SC-B-06-08-191015	+1262,1268 Sand			
41 42	A9J0716-25	A/B 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.80	2	/			100	PDI-059SC-B-00-02-191016	+1262,1268 Mud ##			
43 44	A9J0716-26	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.62	2	/			100	PDI-059SC-B-02-04-191016	+1262,1268 Sand, odor ##			
45 46	A9J0716-27	A 8082 PCBs - Low Level (30g/2mL)	12/30/19 09:52	30 30.11	2	/			100	PDI-059SC-B-04-06-191016	+1262,1268 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	A19L171	02/28/20	8082 PCB Matrix Spike	A19L272	06/20/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool						
A19C104	09/03/23	Florisil Lot 817211-CM						
A19G279	01/18/20	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						
A19L136	06/06/20	Sodium Sulfate Lot # 194950						

Method 3546 digestion time and temperature achieved.

Initial: *S*

Witness: *Luett 12/30/19*

*\* = Heavy staining on Turbo Vap.*

*# = precipitant formed after hexane exchange.*

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **0A02025**

Instrument: **DUALECD2F**

Date: **01/02/20 09:20**

Calibration: **A9L0407**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0A02025-CCV1	Sediment	QC	QC				
2	0A02025-CCB1	Sediment	QC	QC				A19L338
3	9121377-BLK1	Sediment	QC	QC				A19L339
4	9121377-BS1	Sediment	QC	QC		9121377		
5	A9I0172-09	Sediment	8082 PCBs - Low Level (2mL FV)	Anchor QEA, LLC	01/03/20	9121377		
6	0A02025-IBL1	Sediment	QC	QC				
7	9121377-DUP1	Sediment	QC	QC		9121377		
8	0A02025-IBL2	Sediment	QC	QC				
9	0A02025-CCV2	Sediment	QC	QC				A19L338
10	0A02025-CCB2	Sediment	QC	QC				A19L339
11	9121399-BLK1	Sediment	QC	QC		9121399		
12	9121399-BS1	Sediment	QC	QC		9121399		
13	9121399-BSD1	Sediment	QC	QC		9121399		
14	A9I0890-03RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/11/19	9121399		
15	0A02025-IBL3	Sediment	QC	QC				
16	A9I0890-04RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/11/19	9121399		
17	0A02025-IBL4	Sediment	QC	QC				
18	A9J0033-16RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/11/19	9121399		
19	0A02025-IBL5	Sediment	QC	QC				
20	A9J0033-17RE1	Sediment	8082 PCBs - Low Level (30g/2mL)	Anchor QEA, LLC	12/11/19	9121399		
21	0A02025-IBL6	Sediment	QC	QC				
22	0A02025-CCV3	Sediment	QC	QC				A19L338
23	0A02025-CCB3	Sediment	QC	QC				A19L339

Data Entered By: *[Signature]* 1/7/20

Comments:

Data Reviewed By: *[Signature]* 1/7/20

## 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.

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**0A02025-CCV1**

### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	483.42
1016 (2)	540.40
1016 (3)	505.91
1016 (4)	525.60
1016 (5)	527.55
1016 (6)	531.99

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**Average: 519.15**

### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	532.57
1260 (2)	540.30
1260 (3)	550.02
1260 (4)	546.78
1260 (5)	551.66
1260 (6)	505.29

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**Average: 537.77**

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**9121377-BS1**

### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	868.86
1016 (2)	1,035.60
1016 (3)	959.44
1016 (4)	1,007.22
1016 (5)	1,007.49
1016 (6)	1,003.55

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**Average: 980.36**

### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	1,159.59
1260 (2)	1,181.42
1260 (3)	1,160.58
1260 (4)	1,337.56
1260 (5)	1,312.55
1260 (6)	1,234.42

---

**Average: 1,231.02**



## 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.

**0A02025-CCV2**

### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	508.74
1016 (1)	508.74
1016 (2)	544.89
1016 (2)	544.89
1016 (3)	522.84
1016 (3)	522.84
1016 (4)	543.79
1016 (4)	543.79
1016 (5)	538.30
1016 (5)	538.30
1016 (6)	552.62
1016 (6)	552.62
<b>Average:</b>	<b>535.20</b>

### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	550.35
1260 (1)	550.35
1260 (2)	552.44
1260 (2)	552.44
1260 (3)	548.81
1260 (3)	548.81
1260 (4)	581.68
1260 (4)	581.68
1260 (5)	581.87
1260 (5)	581.87
1260 (6)	524.00
1260 (6)	524.00
<b>Average:</b>	<b>556.53</b>

**9121399-BS1**

### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	820.59
1016 (2)	992.52
1016 (3)	873.16
1016 (4)	995.36
1016 (5)	898.20
1016 (6)	832.49
<b>Average:</b>	<b>902.05</b>

## 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.

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<b>9121399-BS1</b>
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Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	1,069.74
1260 (2)	1,200.86
1260 (3)	1,173.94
1260 (4)	1,284.32
1260 (5)	1,196.82
1260 (6)	1,195.60
<b>Average:</b>	<b>1,186.88</b>

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<b>9121399-BSD1</b>
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Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	825.78
1016 (2)	961.90
1016 (3)	811.15
1016 (4)	978.32
1016 (5)	858.85
1016 (6)	793.16
<b>Average:</b>	<b>871.53</b>

Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	1,099.96
1260 (2)	1,122.69
1260 (3)	1,092.87
1260 (4)	1,238.73
1260 (5)	1,206.79
1260 (6)	1,188.40
<b>Average:</b>	<b>1,158.24</b>

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<b>0A02025-CCV3</b>
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## 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.

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**0A02025-CCV3**

### Aroclor 1016

<u>Peak</u>	<u>Initial Res</u>
1016 (1)	529.06
1016 (2)	584.75
1016 (3)	544.36
1016 (4)	548.17
1016 (5)	557.60
1016 (6)	563.32
<b>Average:</b>	<b>554.54</b>

### Aroclor 1260

<u>Peak</u>	<u>Initial Res</u>
1260 (1)	534.97
1260 (2)	554.34
1260 (3)	549.89
1260 (4)	548.65
1260 (5)	567.46
1260 (6)	516.99
<b>Average:</b>	<b>545.38</b>

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 10:08  
 Operator : MJB / KAK  
 Sample : 0A02025-CCV1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:43:35 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten signature]*  
 1/7/20

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.808	17674369	265.430 ng/ml
62) S DCBP (S)	9.554	31567368	282.671 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.721	1807018	483.424 ng/ml
3) Aroclor 1016 (2)	6.133	3887580	540.399 ng/ml
4) Aroclor 1016 (3)	6.215	2009958	505.914 ng/ml
5) Aroclor 1016 (4)	6.371	1880260	525.601 ng/ml
6) Aroclor 1016 (5)	6.593	2190126	527.552 ng/ml
7) Aroclor 1016 (6)	6.718	1560461	531.994 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.160	168119	155.316 ng/ml
10) Aroclor 1221 (2)	5.279	186905	260.470 ng/ml
11) Aroclor 1221 (3)	5.361	815874	348.647 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.361	815874	459.344 ng/ml
14) Aroclor 1232 (2)	6.133	3887580	1398.318 ng/ml
15) Aroclor 1232 (3)	6.215	2009958	1370.169 ng/ml
16) Aroclor 1232 (4)	6.371	1880260	1650.270 ng/ml
17) Aroclor 1232 (5)	6.593	2190126	1525.179 ng/ml
18) Aroclor 1232 (6)	6.718	1560461	1302.423 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.721	1807018	680.347 ng/ml
21) Aroclor 1242 (2)	6.133	3887580	749.473 ng/ml
22) Aroclor 1242 (3)	6.215	2009958	712.708 ng/ml
23) Aroclor 1242 (4)	6.371	1880260	821.368 ng/ml
24) Aroclor 1242 (5)	6.593	2190126	733.783 ng/ml
25) Aroclor 1242 (6)	6.718	1560461	621.890 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.133	3887580	1142.299 ng/ml
28) Aroclor 1248 (2)	6.371	1880260	416.428 ng/ml
29) Aroclor 1248 (3)	6.593	2190126	419.656 ng/ml
30) Aroclor 1248 (4)	6.885	398872	68.710 ng/ml
31) Aroclor 1248 (5)	6.918	1511878	245.463 ng/ml
32) Aroclor 1248 (6)	7.404	3399951	994.889 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.918	1511878	252.059 ng/ml
35) Aroclor 1254 (2)	7.028	1602339	219.873 ng/ml
36) Aroclor 1254 (3)	7.404	3399951	303.297 ng/ml
37) Aroclor 1254 (4)	7.563	451999	63.394 ng/ml
38) Aroclor 1254 (5)	7.943	4355836	568.722 ng/ml
39) Aroclor 1254 (6)	8.234	471266	188.968 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.516	4435134	532.570 ng/ml
42) Aroclor 1260 (2)	7.649	5512341	540.299 ng/ml
43) Aroclor 1260 (3)	8.205	4326004	550.021 ng/ml
44) Aroclor 1260 (4)	8.374	10180247	546.782 ng/ml
45) Aroclor 1260 (5)	8.673	6672809	551.655 ng/ml
46) Aroclor 1260 (6)	9.062	2584333	505.285 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 10:08  
 Operator : MJB / KAK  
 Sample : 0A02025-CCV1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:43:35 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

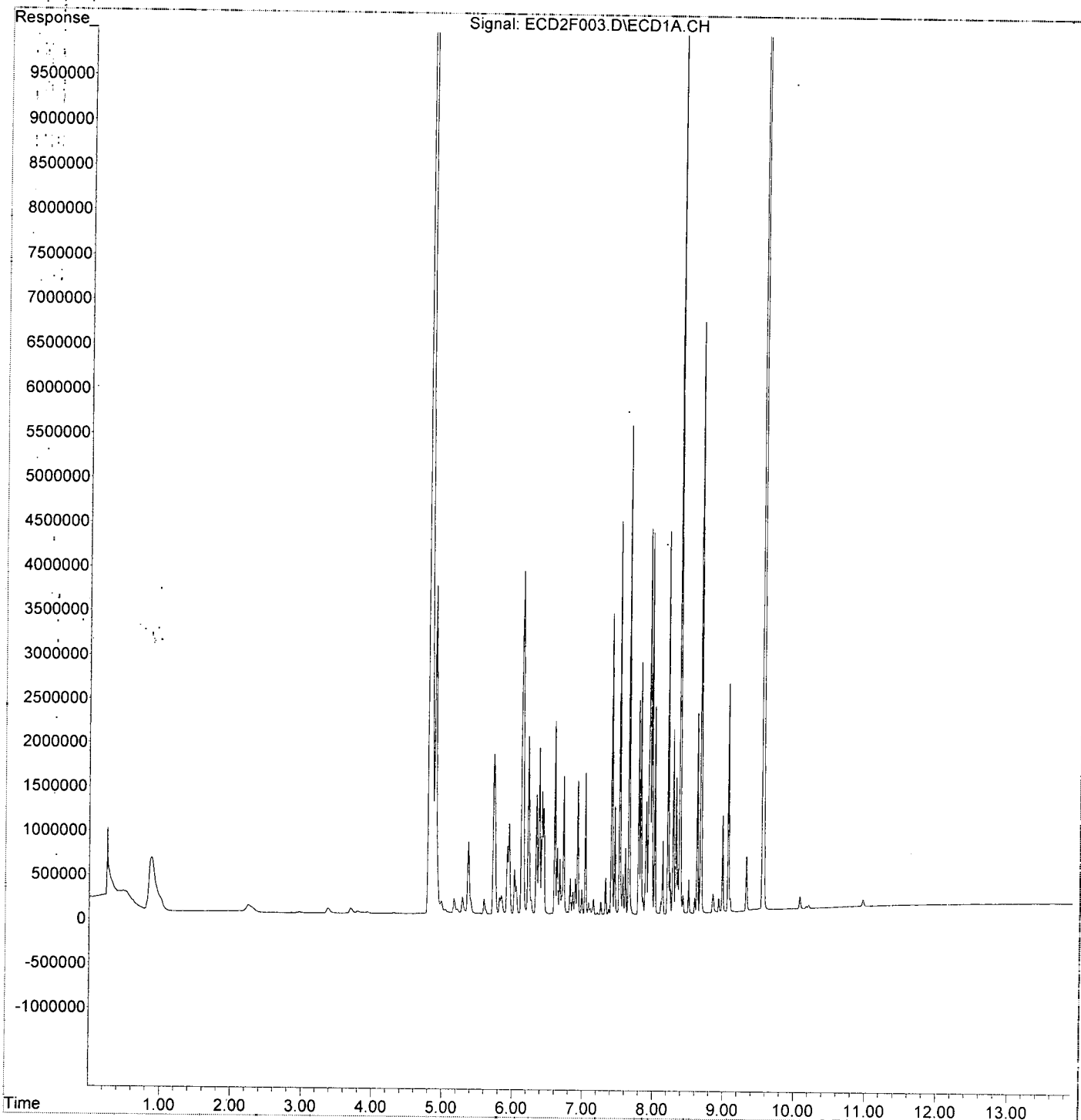
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.649	5512341	685.068 ng/ml
49) Aroclor 1262 (2)	7.972	4308795	383.855 ng/ml
50) Aroclor 1262 (3)	8.205	4326004	445.753 ng/ml
51) Aroclor 1262 (4)	8.374	10180247	492.749 ng/ml
52) Aroclor 1262 (5)	8.673	6672809	510.061 ng/ml
53) Aroclor 1262 (6)	9.062	2584333	387.071 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.205	4326004	847.532 ng/ml
56) Aroclor 1268 (2)	8.621	2266017	92.394 ng/ml
57) Aroclor 1268 (3)	8.673	6672809	326.871 ng/ml
58) Aroclor 1268 (4)	8.846	206485	10.781 ng/ml
59) Aroclor 1268 (5)	9.062	2584333	333.474 ng/ml
60) Aroclor 1268 (6)	9.319	619749	11.854 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\0A02025\  
Data File : ECD2F003.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 10:08  
Operator : MJB / KAK  
Sample : 0A02025-CCV1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:43:35 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A02025\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 10:26  
 Operator : MJB / KAK  
 Sample : 0A02025-CCB1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:43:57 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten Signature]*  
 1/7/20

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.810	7474292	112.247 ng/ml
62) S DCBP (S)	9.554	13202182	118.220 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.719	1128	0.302 ng/ml
3) Aroclor 1016 (2)	6.139	5468	0.760 ng/ml
4) Aroclor 1016 (3)	6.207	1016	0.256 ng/ml
5) Aroclor 1016 (4)	6.366	831	0.232 ng/ml
6) Aroclor 1016 (5)	6.599	2663	0.642 ng/ml
7) Aroclor 1016 (6)	6.722	2346	0.800 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.160	11350	10.486 ng/ml
10) Aroclor 1221 (2)	5.280	13068	18.211 ng/ml
11) Aroclor 1221 (3)	5.374	9825	4.199 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.374	9825	5.532 ng/ml
14) Aroclor 1232 (2)	6.139	5468	1.967 ng/ml
15) Aroclor 1232 (3)	6.207	1016	0.693 ng/ml
16) Aroclor 1232 (4)	6.366	831	0.729 ng/ml
17) Aroclor 1232 (5)	6.599	2663	1.855 ng/ml
18) Aroclor 1232 (6)	6.722	2346	1.958 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.719	1128	0.425 ng/ml
21) Aroclor 1242 (2)	6.139	5468	1.054 ng/ml
22) Aroclor 1242 (3)	6.207	1016	0.360 ng/ml
23) Aroclor 1242 (4)	6.366	831	0.363 ng/ml
24) Aroclor 1242 (5)	6.599	2663	0.892 ng/ml
25) Aroclor 1242 (6)	6.722	2346	0.935 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.139	5468	1.607 ng/ml
28) Aroclor 1248 (2)	6.366	831	0.184 ng/ml
29) Aroclor 1248 (3)	6.599	2663	0.510 ng/ml
30) Aroclor 1248 (4)	6.886	1188	0.205 ng/ml
31) Aroclor 1248 (5)	6.927	1693	0.275 ng/ml
32) Aroclor 1248 (6)	7.405	5176	1.515 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.927	1693	0.282 ng/ml
35) Aroclor 1254 (2)	7.033	1373	0.188 ng/ml
36) Aroclor 1254 (3)	7.405	5176	0.462 ng/ml
37) Aroclor 1254 (4)	7.564	2348	0.329 ng/ml
38) Aroclor 1254 (5)	7.951	4653	0.608 ng/ml
39) Aroclor 1254 (6)	8.233	1013	0.406 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.519	3996	0.480 ng/ml
42) Aroclor 1260 (2)	7.651	3985	0.391 ng/ml
43) Aroclor 1260 (3)	8.206	1734	0.220 ng/ml
44) Aroclor 1260 (4)	8.372	8183	0.440 ng/ml
45) Aroclor 1260 (5)	8.674	2763	0.228 ng/ml
46) Aroclor 1260 (6)	9.066	3233	0.632 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 10:26  
 Operator : MJB / KAK  
 Sample : 0A02025-CCB1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:43:57 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.651	3985	0.495 ng/ml
49) Aroclor 1262 (2)	7.975	2212	0.197 ng/ml
50) Aroclor 1262 (3)	8.206	1734	0.179 ng/ml
51) Aroclor 1262 (4)	8.372	8183	0.396 ng/ml
52) Aroclor 1262 (5)	8.674	2763	0.211 ng/ml
53) Aroclor 1262 (6)	9.066	3233	0.484 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.206	1734	0.340 ng/ml
56) Aroclor 1268 (2)	8.624	1264	0.052 ng/ml
57) Aroclor 1268 (3)	8.674	2763	0.135 ng/ml
58) Aroclor 1268 (4)	8.852	39778	2.077 ng/ml
59) Aroclor 1268 (5)	9.066	3233	0.417 ng/ml
60) Aroclor 1268 (6)	9.322	45138	0.863 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

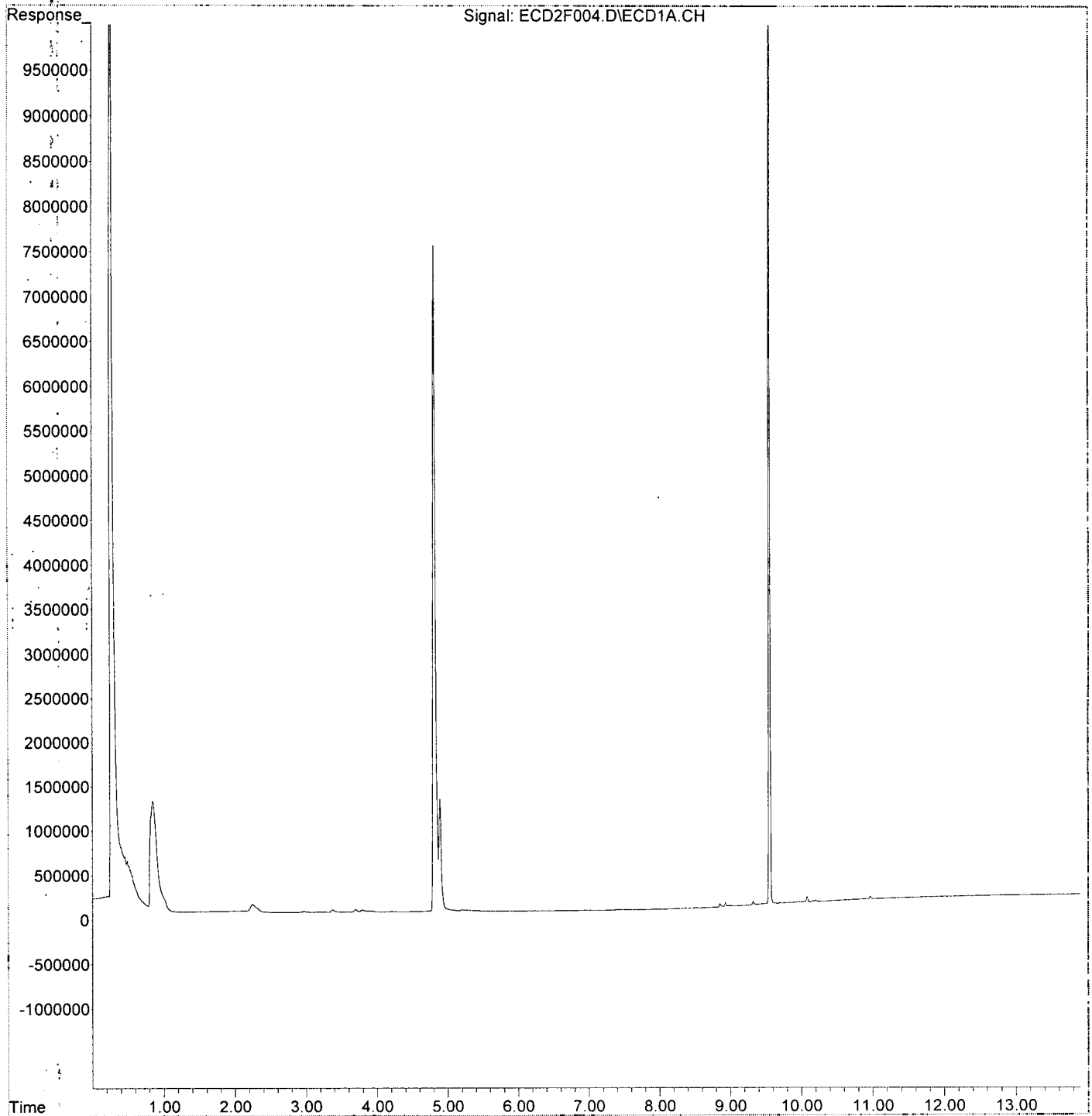
(f)=RT Delta > 1/2 Window

(m)=manual int.



Data Path : K:\DATA\0A02025\  
Data File : ECD2F004.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 10:26  
Operator : MJB / KAK  
Sample : 0A02025-CCB1  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:43:57 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A02025\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 10:58  
 Operator : MJB / KAK  
 Sample : 9121377-BLK1  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:44:19 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 1/7/20  
 Clean

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.810	14125814	212.138 ng/ml
62) S DCBP (S)	9.559	28046835	251.147 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.724	5190	1.388 ng/ml
3) Aroclor 1016 (2)	6.140	7144	0.993 ng/ml
4) Aroclor 1016 (3)	6.220	3808	0.958 ng/ml
5) Aroclor 1016 (4)	6.376	4125	1.153 ng/ml
6) Aroclor 1016 (5)	6.596	5852	1.410 ng/ml
7) Aroclor 1016 (6)	6.723	4282	1.460 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.165	15634	14.443 ng/ml
10) Aroclor 1221 (2)	5.284	14931	20.808 ng/ml
11) Aroclor 1221 (3)	5.358	14709	6.285 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.358	14709	8.281 ng/ml
14) Aroclor 1232 (2)	6.140	7144	2.570 ng/ml
15) Aroclor 1232 (3)	6.220	3808	2.596 ng/ml
16) Aroclor 1232 (4)	6.376	4125	3.620 ng/ml
17) Aroclor 1232 (5)	6.596	5852	4.075 ng/ml
18) Aroclor 1232 (6)	6.723	4282	3.574 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.724	5190	1.954 ng/ml
21) Aroclor 1242 (2)	6.140	7144	1.377 ng/ml
22) Aroclor 1242 (3)	6.220	3808	1.350 ng/ml
23) Aroclor 1242 (4)	6.376	4125	1.802 ng/ml
24) Aroclor 1242 (5)	6.596	5852	1.961 ng/ml
25) Aroclor 1242 (6)	6.723	4282	1.706 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.140	7144	2.099 ng/ml
28) Aroclor 1248 (2)	6.376	4125	0.914 ng/ml
29) Aroclor 1248 (3)	6.596	5852	1.121 ng/ml
30) Aroclor 1248 (4)	6.890	1912	0.329 ng/ml
31) Aroclor 1248 (5)	6.924	4228	0.686 ng/ml
32) Aroclor 1248 (6)	7.410	10986	3.215 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.924	4228	0.705 ng/ml
35) Aroclor 1254 (2)	7.034	4100	0.563 ng/ml
36) Aroclor 1254 (3)	7.410	10986	0.980 ng/ml
37) Aroclor 1254 (4)	7.564	2953	0.414 ng/ml
38) Aroclor 1254 (5)	7.931	2448	0.320 ng/ml
39) Aroclor 1254 (6)	8.228	379	0.152 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.520	9578	1.150 ng/ml
42) Aroclor 1260 (2)	7.654	7069	0.693 ng/ml
43) Aroclor 1260 (3)	8.208	2520	0.320 ng/ml
44) Aroclor 1260 (4)	8.375	10653	0.572 ng/ml
45) Aroclor 1260 (5)	8.679	3789	0.313 ng/ml
46) Aroclor 1260 (6)	9.067	1093	0.214 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 10:58  
 Operator : MJB / KAK  
 Sample : 9121377-BLK1  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:44:19 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

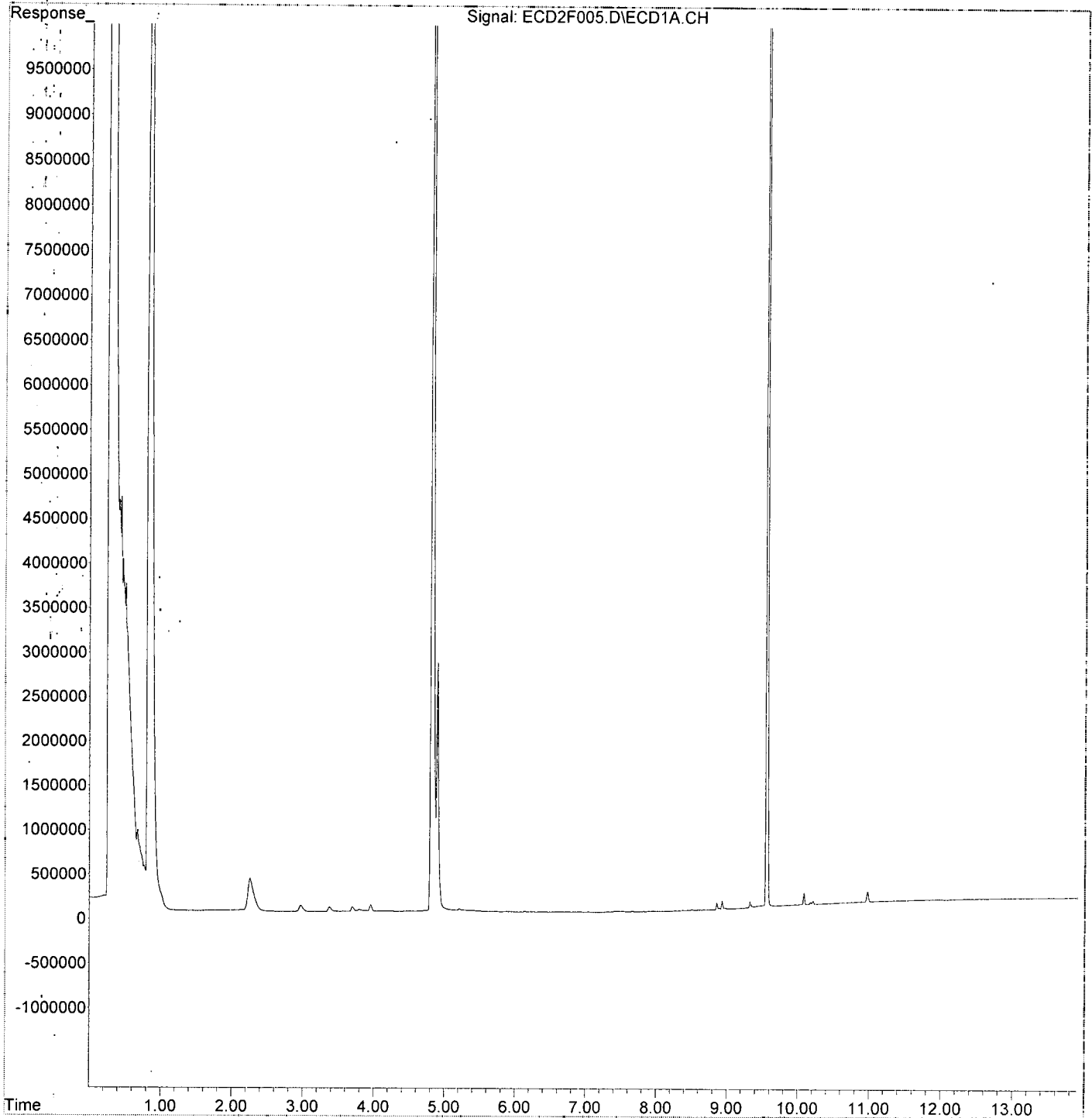
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.654	7069	0.878 ng/ml
49) Aroclor 1262 (2)	7.977	3567	0.318 ng/ml
50) Aroclor 1262 (3)	8.208	2520	0.260 ng/ml
51) Aroclor 1262 (4)	8.375	10653	0.516 ng/ml
52) Aroclor 1262 (5)	8.679	3789	0.290 ng/ml
53) Aroclor 1262 (6)	9.067	1093	0.164 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.208	2520	0.494 ng/ml
56) Aroclor 1268 (2)	8.627	2628	0.107 ng/ml
57) Aroclor 1268 (3)	8.679	3789	0.186 ng/ml
58) Aroclor 1268 (4)	8.857	77622	4.053 ng/ml
59) Aroclor 1268 (5)	9.067	1093	0.141 ng/ml
60) Aroclor 1268 (6)	9.325	74331	1.422 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\0A02025\  
Data File : ECD2F005.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 10:58  
Operator : MJB / KAK  
Sample : 9121377-BLK1  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:44:19 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path: K:\DATA\0A02025\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 11:15  
 Operator : MJB / KAK  
 Sample : 9121377-BS1  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:44:41 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/7/20

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	4.806	13080968	196.447	ng/ml
62) S DCBP (S)	9.557	28774569	257.663	ng/ml
<b>Target Compounds</b>				
2) Aroclor 1016 (1)	5.721	3247747	868.856	ng/ml
3) Aroclor 1016 (2)	6.133	7450043	1035.605	ng/ml
4) Aroclor 1016 (3)	6.215	3811771	959.437	ng/ml
5) Aroclor 1016 (4)	6.372	3603191	1007.222	ng/ml
6) Aroclor 1016 (5)	6.593	4182580	1007.490	ng/ml
7) Aroclor 1016 (6)	6.718	2943646	1003.551	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.160	289346	267.311	ng/ml
10) Aroclor 1221 (2)	5.280	313729	437.211	ng/ml
11) Aroclor 1221 (3)	5.361	1517069	648.289	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.361	1517069	854.123	ng/ml
14) Aroclor 1232 (2)	6.133	7450043	2679.695	ng/ml
15) Aroclor 1232 (3)	6.215	3811771	2598.448	ng/ml
16) Aroclor 1232 (4)	6.372	3603191	3162.456	ng/ml
17) Aroclor 1232 (5)	6.593	4182580	2912.702	ng/ml
18) Aroclor 1232 (6)	6.718	2943646	2456.885	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.721	3247747	1222.785	ng/ml
21) Aroclor 1242 (2)	6.133	7450043	1436.268	ng/ml
22) Aroclor 1242 (3)	6.215	3811771	1351.610	ng/ml
23) Aroclor 1242 (4)	6.372	3603191	1574.009	ng/ml
24) Aroclor 1242 (5)	6.593	4182580	1401.337	ng/ml
25) Aroclor 1242 (6)	6.718	2943646	1173.131	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.133	7450043	2189.068	ng/ml
28) Aroclor 1248 (2)	6.372	3603191	798.011	ng/ml
29) Aroclor 1248 (3)	6.593	4182580	801.436	ng/ml
30) Aroclor 1248 (4)	6.886	813941	140.210	ng/ml
31) Aroclor 1248 (5)	6.919	2965460	481.460	ng/ml
32) Aroclor 1248 (6)	7.405	7231895	2116.187	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.919	2965460	494.398	ng/ml
35) Aroclor 1254 (2)	7.029	3502496	480.613	ng/ml
36) Aroclor 1254 (3)	7.405	7231895	645.130	ng/ml
37) Aroclor 1254 (4)	7.564	973716	136.565	ng/ml
38) Aroclor 1254 (5)	7.944	10065836	1314.251	ng/ml
39) Aroclor 1254 (6)	8.235	952629	381.985	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.518	9656817	1159.589	ng/ml
42) Aroclor 1260 (2)	7.651	12053300	1181.419	ng/ml
43) Aroclor 1260 (3)	8.206	9128163	1160.582	ng/ml
44) Aroclor 1260 (4)	8.376	24903385	1337.563	ng/ml
45) Aroclor 1260 (5)	8.673	15876593	1312.552	ng/ml
46) Aroclor 1260 (6)	9.063	6313548	1234.416	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

Data Path: K:\DATA\0A02025\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 11:15  
 Operator : MJB / KAK  
 Sample : 9121377-BS1  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:44:41 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.651	12053300	1497.972	ng/ml
49) Aroclor 1262 (2)	7.974	9276999	826.454	ng/ml
50) Aroclor 1262 (3)	8.206	9128163	940.569	ng/ml
51) Aroclor 1262 (4)	8.376	24903385	1205.386	ng/ml
52) Aroclor 1262 (5)	8.673	15876593	1213.588	ng/ml
53) Aroclor 1262 (6)	9.063	6313548	945.618	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.206	9128163	1788.350	ng/ml
56) Aroclor 1268 (2)	8.622	5342246	217.823	ng/ml
57) Aroclor 1268 (3)	8.673	15876593	777.723	ng/ml
58) Aroclor 1268 (4)	8.845	424064	22.140	ng/ml
59) Aroclor 1268 (5)	9.063	6313548	814.679	ng/ml
60) Aroclor 1268 (6)	9.321	1390052	26.587	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

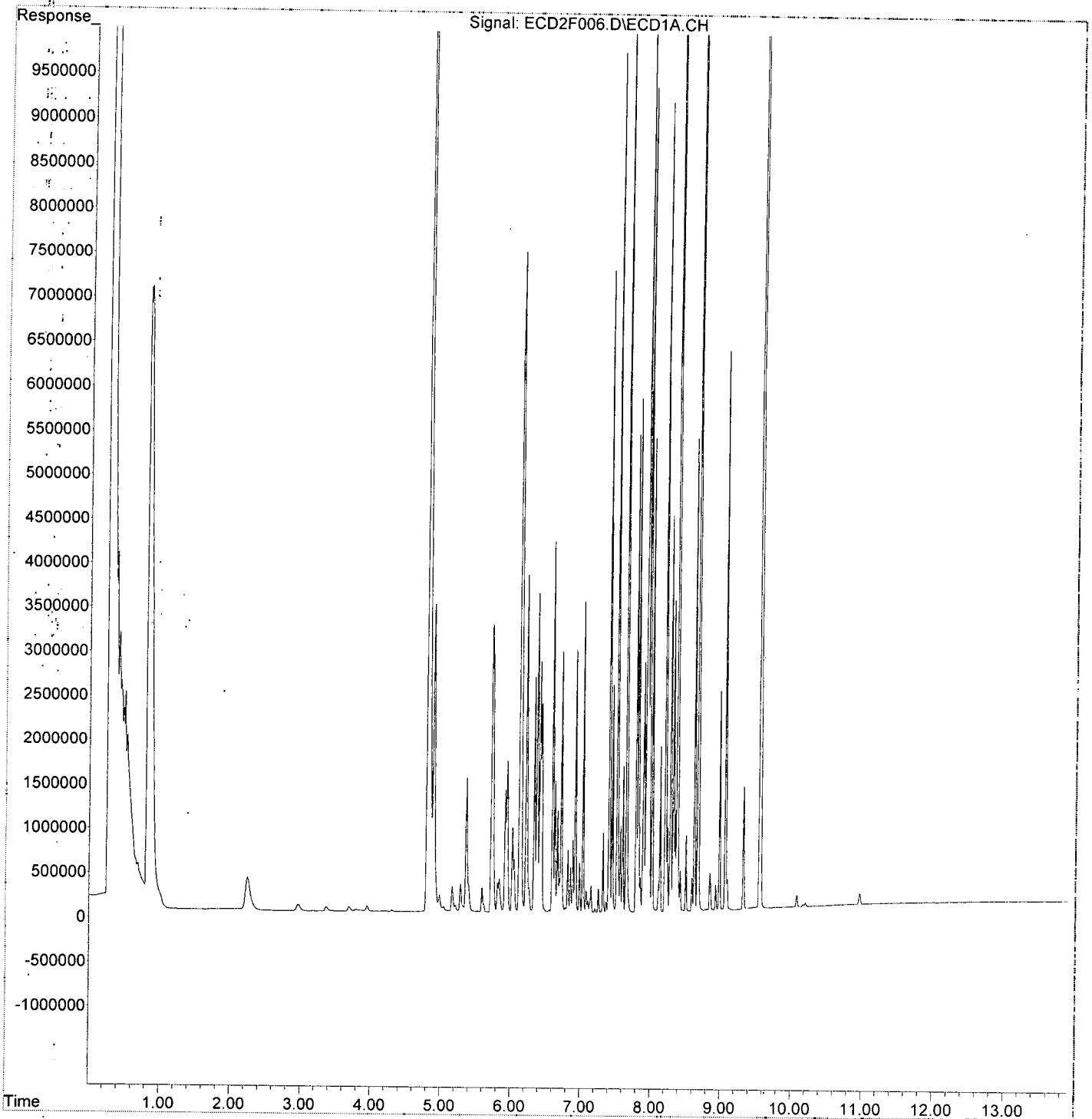
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
Data File : ECD2F006.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 11:15  
Operator : MJB / KAK  
Sample : 9121377-BS1  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:44:41 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A02025\  
 Data File : ECD2F011.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 12:43  
 Operator : MJB / KAK  
 Sample : 0A02025-CCV2  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:45:47 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 11/7/20

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	4.809	17379468	261.001	ng/ml
62) S DCBP (S)	9.556	31076982	278.280	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	5.720	1901632	508.735	ng/ml
3) Aroclor 1016 (2)	6.133	3919871	544.888	ng/ml
4) Aroclor 1016 (3)	6.215	2077209	522.841	ng/ml
5) Aroclor 1016 (4)	6.370	1945327	543.789	ng/ml
6) Aroclor 1016 (5)	6.592	2234756	538.303	ng/ml
7) Aroclor 1016 (6)	6.717	1620949	552.616	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.160	174150	160.888	ng/ml
10) Aroclor 1221 (2)	5.280	198458	276.570	ng/ml
11) Aroclor 1221 (3)	5.361	847196	362.032	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.361	847196	476.979	ng/ml
14) Aroclor 1232 (2)	6.133	3919871	1409.933	ng/ml
15) Aroclor 1232 (3)	6.215	2077209	1416.014	ng/ml
16) Aroclor 1232 (4)	6.370	1945327	1707.378	ng/ml
17) Aroclor 1232 (5)	6.592	2234756	1556.259	ng/ml
18) Aroclor 1232 (6)	6.717	1620949	1352.909	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.720	1901632	715.969	ng/ml
21) Aroclor 1242 (2)	6.133	3919871	755.698	ng/ml
22) Aroclor 1242 (3)	6.215	2077209	736.555	ng/ml
23) Aroclor 1242 (4)	6.370	1945327	849.792	ng/ml
24) Aroclor 1242 (5)	6.592	2234756	748.736	ng/ml
25) Aroclor 1242 (6)	6.717	1620949	645.997	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.133	3919871	1151.787	ng/ml
28) Aroclor 1248 (2)	6.370	1945327	430.838	ng/ml
29) Aroclor 1248 (3)	6.592	2234756	428.208	ng/ml
30) Aroclor 1248 (4)	6.885	420211	72.386	ng/ml
31) Aroclor 1248 (5)	6.919	1595370	259.018	ng/ml
32) Aroclor 1248 (6)	7.405	3530601	1033.120	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.919	1595370	265.978	ng/ml
35) Aroclor 1254 (2)	7.028	1563384	214.528	ng/ml
36) Aroclor 1254 (3)	7.405	3530601	314.952	ng/ml
37) Aroclor 1254 (4)	7.564	465881	65.341	ng/ml
38) Aroclor 1254 (5)	7.943	4388602	573.000	ng/ml
39) Aroclor 1254 (6)	8.234	496246	198.985	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.517	4583169	550.346	ng/ml
42) Aroclor 1260 (2)	7.650	5636253	552.444	ng/ml
43) Aroclor 1260 (3)	8.204	4316479	548.810	ng/ml
44) Aroclor 1260 (4)	8.374	10830055	581.683	ng/ml
45) Aroclor 1260 (5)	8.673	7038286	581.870	ng/ml
46) Aroclor 1260 (6)	9.063	2680072	524.004	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F011.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 12:43  
 Operator : MJB / KAK  
 Sample : 0A02025-CCV2  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:45:47 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

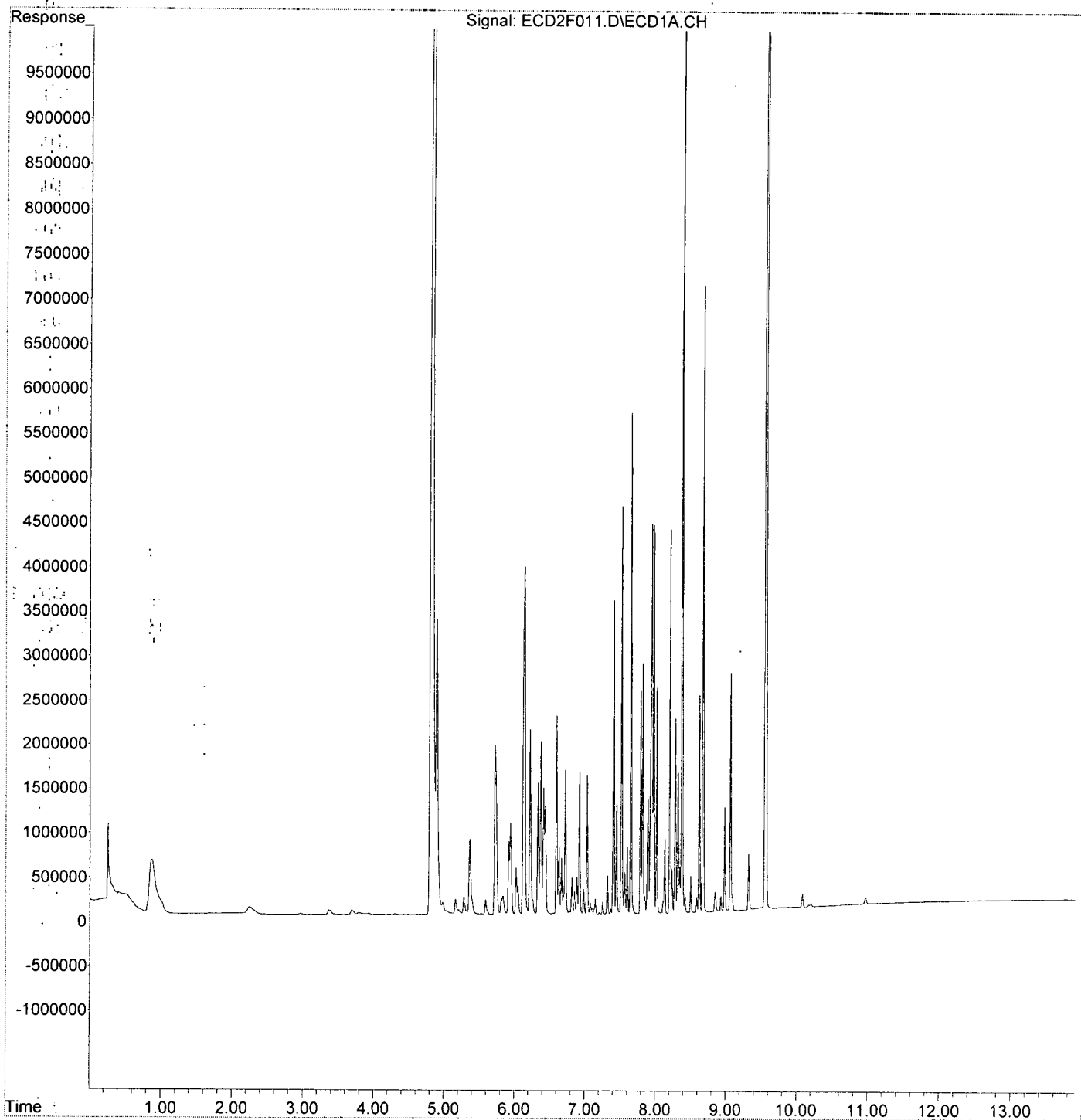
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.650	5636253	700.468 ng/ml
49) Aroclor 1262 (2)	7.973	4368601	389.182 ng/ml
50) Aroclor 1262 (3)	8.204	4316479	444.772 ng/ml
51) Aroclor 1262 (4)	8.374	10830055	524.202 ng/ml
52) Aroclor 1262 (5)	8.673	7038286	537.998 ng/ml
53) Aroclor 1262 (6)	9.063	2680072	401.410 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.204	4316479	845.666 ng/ml
56) Aroclor 1268 (2)	8.621	2443246	99.620 ng/ml
57) Aroclor 1268 (3)	8.673	7038286	344.774 ng/ml
58) Aroclor 1268 (4)	8.847	221101	11.544 ng/ml
59) Aroclor 1268 (5)	9.063	2680072	345.828 ng/ml
60) Aroclor 1268 (6)	9.320	635985	12.164 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\0A02025\  
Data File : ECD2F011.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 12:43  
Operator : MJB / KAK  
Sample : 0A02025-CCV2  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:45:47 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A02025\  
 Data File : ECD2F012.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 13:01  
 Operator : MJB / KAK  
 Sample : 0A02025-CCB2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:46:09 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 Last Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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 1/7/20  
 Clean

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.806	6701557	100.642 ng/ml
62) S DCBP (S)	9.555	12282301	109.982 ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.716	1403	0.375 ng/ml
3) Aroclor 1016 (2)	6.137	6061	0.842 ng/ml
4) Aroclor 1016 (3)	6.199	1090	0.274 ng/ml
5) Aroclor 1016 (4)	6.374	3691	1.032 ng/ml
6) Aroclor 1016 (5)	6.595	4735	1.140 ng/ml
7) Aroclor 1016 (6)	6.723	3736	1.274 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.159	11328	10.465 ng/ml
10) Aroclor 1221 (2)	5.277	13017	18.141 ng/ml
11) Aroclor 1221 (3)	5.354	11407	4.875 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.354	11407	6.422 ng/ml
14) Aroclor 1232 (2)	6.137	6061	2.180 ng/ml
15) Aroclor 1232 (3)	6.199	1090	0.743 ng/ml
16) Aroclor 1232 (4)	6.374	3691	3.239 ng/ml
17) Aroclor 1232 (5)	6.595	4735	3.297 ng/ml
18) Aroclor 1232 (6)	6.723	3736	3.118 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.716	1403	0.528 ng/ml
21) Aroclor 1242 (2)	6.137	6061	1.168 ng/ml
22) Aroclor 1242 (3)	6.199	1090	0.386 ng/ml
23) Aroclor 1242 (4)	6.374	3691	1.612 ng/ml
24) Aroclor 1242 (5)	6.595	4735	1.586 ng/ml
25) Aroclor 1242 (6)	6.723	3736	1.489 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.137	6061	1.781 ng/ml
28) Aroclor 1248 (2)	6.374	3691	0.817 ng/ml
29) Aroclor 1248 (3)	6.595	4735	0.907 ng/ml
30) Aroclor 1248 (4)	6.887	3873	0.667 ng/ml
31) Aroclor 1248 (5)	6.920	5630	0.914 ng/ml
32) Aroclor 1248 (6)	7.400	9962	2.915 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.920	5630	0.939 ng/ml
35) Aroclor 1254 (2)	7.029	7423	1.019 ng/ml
36) Aroclor 1254 (3)	7.400	9962	0.889 ng/ml
37) Aroclor 1254 (4)	7.564	6746	0.946 ng/ml
38) Aroclor 1254 (5)	7.945	8978	1.172 ng/ml
39) Aroclor 1254 (6)	8.234	1780	0.714 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.519	7385	0.887 ng/ml
42) Aroclor 1260 (2)	7.650	8294	0.813 ng/ml
43) Aroclor 1260 (3)	8.204	2647	0.336 ng/ml
44) Aroclor 1260 (4)	8.374	10801	0.580 ng/ml
45) Aroclor 1260 (5)	8.674	4746	0.392 ng/ml
46) Aroclor 1260 (6)	9.064	3574	0.699 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F012.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 13:01  
 Operator : MJB / KAK  
 Sample : 0A02025-CCB2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:46:09 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

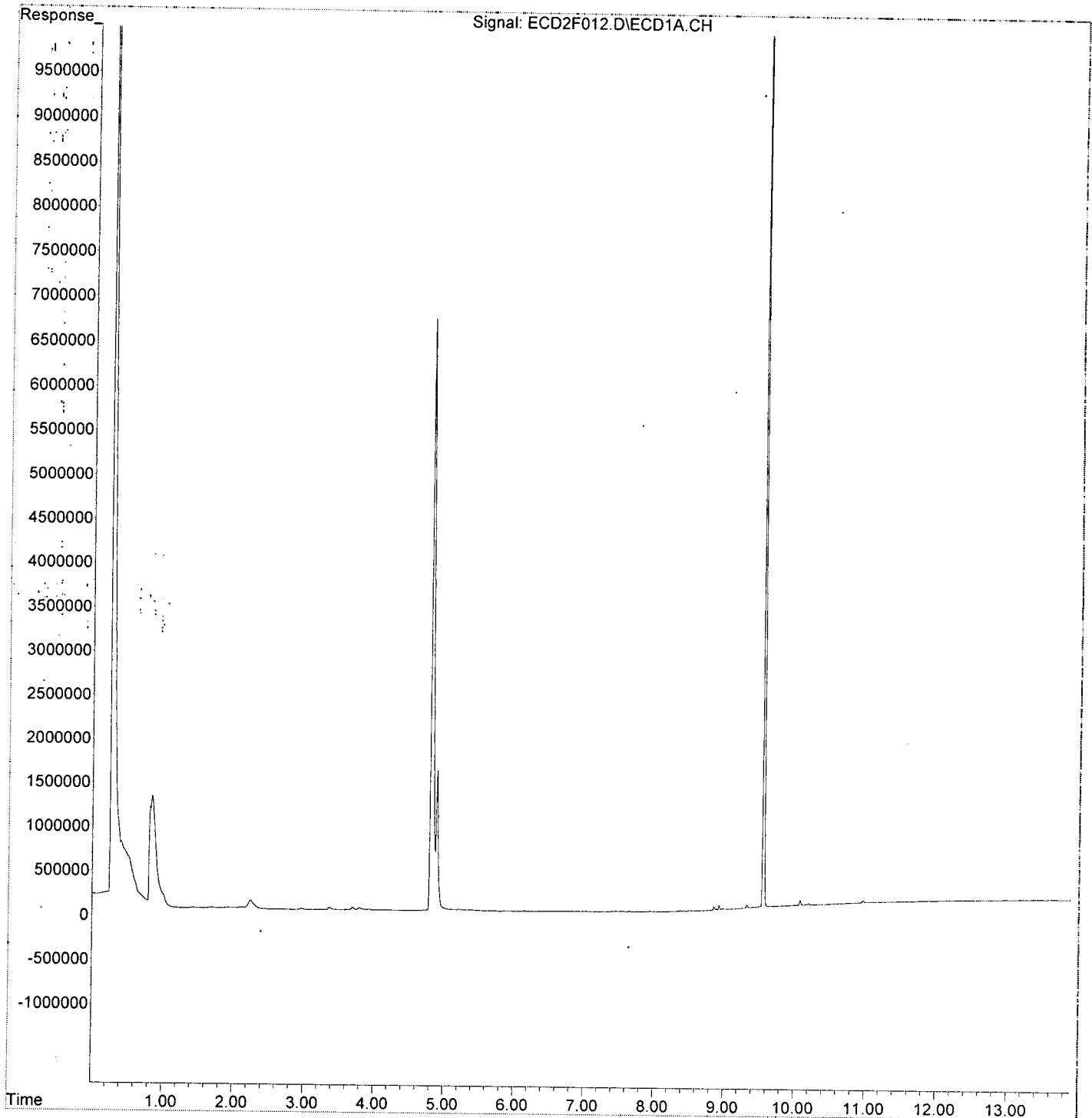
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.650	8294	1.031 ng/ml
49) Aroclor 1262 (2)	7.976	3234	0.288 ng/ml
50) Aroclor 1262 (3)	8.204	2647	0.273 ng/ml
51) Aroclor 1262 (4)	8.374	10801	0.523 ng/ml
52) Aroclor 1262 (5)	8.674	4746	0.363 ng/ml
53) Aroclor 1262 (6)	9.064	3574	0.535 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.204	2647	0.519 ng/ml
56) Aroclor 1268 (2)	8.621	1571	0.064 ng/ml
57) Aroclor 1268 (3)	8.674	4746	0.233 ng/ml
58) Aroclor 1268 (4)	8.852	41191	2.151 ng/ml
59) Aroclor 1268 (5)	9.064	3574	0.461 ng/ml
60) Aroclor 1268 (6)	9.322	39348	0.753 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\0A02025\  
Data File : ECD2F012.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 13:01  
Operator : MJB / KAK  
Sample : 0A02025-CCB2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:46:09 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F013.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 13:26  
 Operator : MJB/KAK  
 Sample : 9121399-BLK1  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:46:31 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 1/7/20  
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Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.810	10721673	161.016 ng/ml
62) S DCBP (S)	9.558	27836168	249.260 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.722	1962	0.525 ng/ml
3) Aroclor 1016 (2)	6.137	3383	0.470 ng/ml
4) Aroclor 1016 (3)	6.231	2133	0.537 ng/ml
5) Aroclor 1016 (4)	6.377	2075	0.580 ng/ml
6) Aroclor 1016 (5)	6.599	3281	0.790 ng/ml
7) Aroclor 1016 (6)	6.722	2388	0.814 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.164	14499	13.395 ng/ml
10) Aroclor 1221 (2)	5.294	13267	18.489 ng/ml
11) Aroclor 1221 (3)	5.354	15950	6.816 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.354	15950	8.980 ng/ml
14) Aroclor 1232 (2)	6.137	3383	1.217 ng/ml
15) Aroclor 1232 (3)	6.231	2133	1.454 ng/ml
16) Aroclor 1232 (4)	6.377	2075	1.821 ng/ml
17) Aroclor 1232 (5)	6.599	3281	2.285 ng/ml
18) Aroclor 1232 (6)	6.722	2388	1.993 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.722	1962	0.739 ng/ml
21) Aroclor 1242 (2)	6.137	3383	0.652 ng/ml
22) Aroclor 1242 (3)	6.231	2133	0.756 ng/ml
23) Aroclor 1242 (4)	6.377	2075	0.906 ng/ml
24) Aroclor 1242 (5)	6.599	3281	1.099 ng/ml
25) Aroclor 1242 (6)	6.722	2388	0.952 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.137	3383	0.994 ng/ml
28) Aroclor 1248 (2)	6.377	2075	0.459 ng/ml
29) Aroclor 1248 (3)	6.599	3281	0.629 ng/ml
30) Aroclor 1248 (4)	6.893	1667	0.287 ng/ml
31) Aroclor 1248 (5)	6.922	2537	0.412 ng/ml
32) Aroclor 1248 (6)	7.407	6206	1.816 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.922	2537	0.423 ng/ml
35) Aroclor 1254 (2)	7.032	2961	0.406 ng/ml
36) Aroclor 1254 (3)	7.407	6206	0.554 ng/ml
37) Aroclor 1254 (4)	7.566	3994	0.560 ng/ml
38) Aroclor 1254 (5)	7.955	6011	0.785 ng/ml
39) Aroclor 1254 (6)	8.232	702	0.281 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.520	8047	0.966 ng/ml
42) Aroclor 1260 (2)	7.652	6399	0.627 ng/ml
43) Aroclor 1260 (3)	8.207	2341	0.298 ng/ml
44) Aroclor 1260 (4)	8.375	8675	0.466 ng/ml
45) Aroclor 1260 (5)	8.677	3933	0.325 ng/ml
46) Aroclor 1260 (6)	9.067	4833	0.945 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F013.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 13:26  
 Operator : MJB / KAK  
 Sample : 9121399-BLK1  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:46:31 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.652	6399	0.795 ng/ml
49) Aroclor 1262 (2)	7.977	3096	0.276 ng/ml
50) Aroclor 1262 (3)	8.207	2341	0.241 ng/ml
51) Aroclor 1262 (4)	8.375	8675	0.420 ng/ml
52) Aroclor 1262 (5)	8.677	3933	0.301 ng/ml
53) Aroclor 1262 (6)	9.067	4833	0.724 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.207	2341	0.459 ng/ml
56) Aroclor 1268 (2)	8.624	2139	0.087 ng/ml
57) Aroclor 1268 (3)	8.677	3933	0.193 ng/ml
58) Aroclor 1268 (4)	8.855	75547	3.944 ng/ml
59) Aroclor 1268 (5)	9.067	4833	0.624 ng/ml
60) Aroclor 1268 (6)	9.324	77751	1.487 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

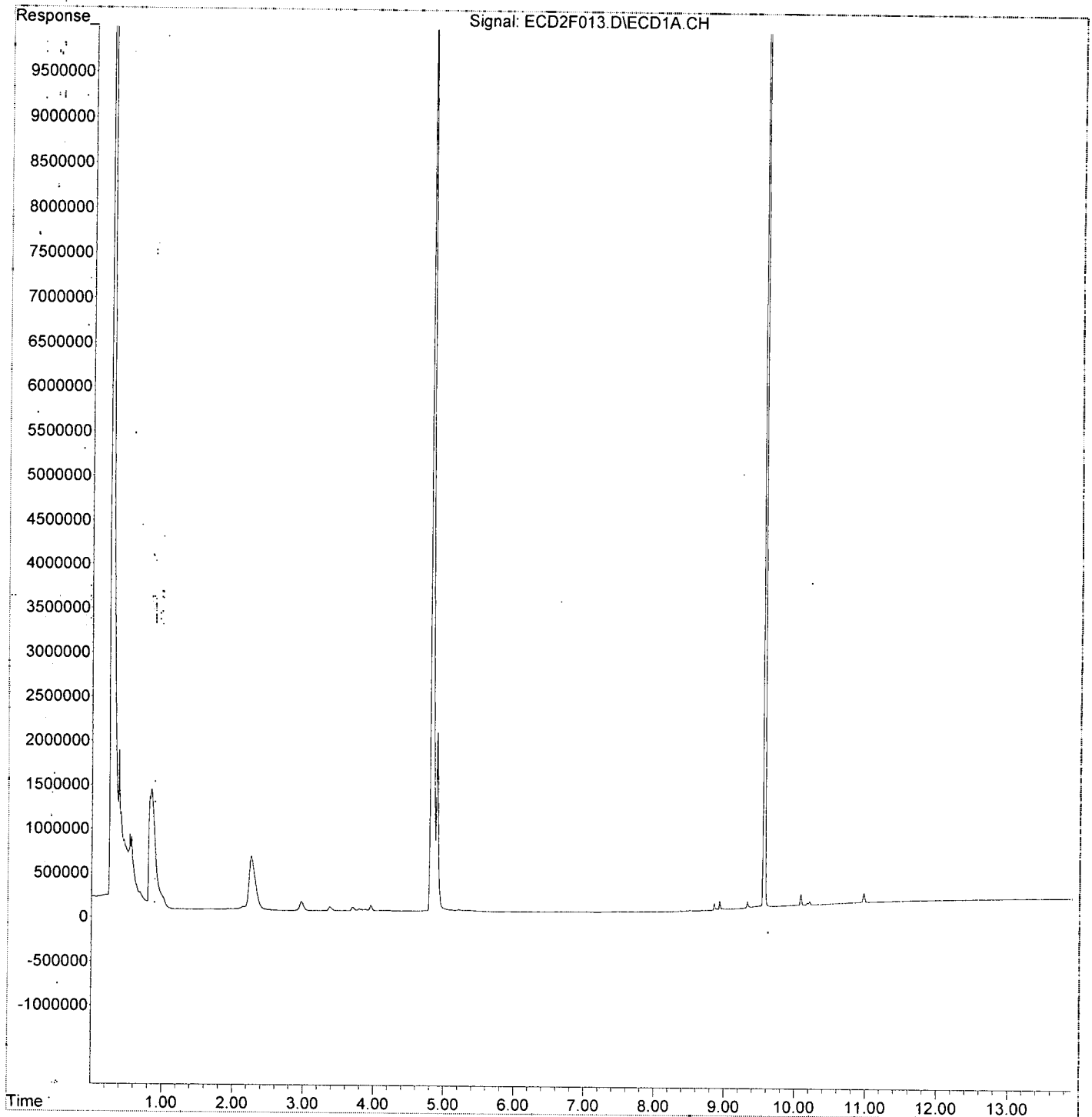
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
Data File : ECD2F013.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 13:26  
Operator : MJB / KAK  
Sample : 9121399-BLK1  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:46:31 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F014.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 13:44  
 Operator : MJB / KAK  
 Sample : 9121399-BS1  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:46:52 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 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)	4.811	11544120	173.367 ng/ml
62) S DCBP (S)	9.556	27782781	248.782 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.721	3067325	820.588 ng/ml
3) Aroclor 1016 (2)	6.133	7140109	992.522 ng/ml
4) Aroclor 1016 (3)	6.216	3468984	873.156 ng/ml
5) Aroclor 1016 (4)	6.371	3560751	995.359 ng/ml
6) Aroclor 1016 (5)	6.592	3728885	898.205 ng/ml
7) Aroclor 1016 (6)	6.718	2441890	832.492 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.162	245244	226.568 ng/ml
10) Aroclor 1221 (2)	5.280	285802	398.292 ng/ml
11) Aroclor 1221 (3)	5.363	1289101	550.871 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.363	1289101	725.775 ng/ml
14) Aroclor 1232 (2)	6.133	7140109	2568.216 ng/ml
15) Aroclor 1232 (3)	6.216	3468984	2364.774 ng/ml
16) Aroclor 1232 (4)	6.371	3560751	3125.207 ng/ml
17) Aroclor 1232 (5)	6.592	3728885	2596.754 ng/ml
18) Aroclor 1232 (6)	6.718	2441890	2038.099 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.721	3067325	1154.856 ng/ml
21) Aroclor 1242 (2)	6.133	7140109	1376.517 ng/ml
22) Aroclor 1242 (3)	6.216	3468984	1230.062 ng/ml
23) Aroclor 1242 (4)	6.371	3560751	1555.470 ng/ml
24) Aroclor 1242 (5)	6.592	3728885	1249.331 ng/ml
25) Aroclor 1242 (6)	6.718	2441890	973.166 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.133	7140109	2097.999 ng/ml
28) Aroclor 1248 (2)	6.371	3560751	788.612 ng/ml
29) Aroclor 1248 (3)	6.592	3728885	714.502 ng/ml
30) Aroclor 1248 (4)	6.886	766645	132.063 ng/ml
31) Aroclor 1248 (5)	6.918	2755900	447.437 ng/ml
32) Aroclor 1248 (6)	7.405	6666122	1950.631 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.918	2755900	459.461 ng/ml
35) Aroclor 1254 (2)	7.028	3214670	441.117 ng/ml
36) Aroclor 1254 (3)	7.405	6666122	594.660 ng/ml
37) Aroclor 1254 (4)	7.564	857511	120.268 ng/ml
38) Aroclor 1254 (5)	7.944	8927952	1165.683 ng/ml
39) Aroclor 1254 (6)	8.234	803708	322.271 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.517	8908593	1069.743 ng/ml
42) Aroclor 1260 (2)	7.651	12251677	1200.863 ng/ml
43) Aroclor 1260 (3)	8.205	9233237	1173.942 ng/ml
44) Aroclor 1260 (4)	8.376	23912150	1284.324 ng/ml
45) Aroclor 1260 (5)	8.673	14476668	1196.817 ng/ml
46) Aroclor 1260 (6)	9.063	6115005	1195.597 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F014.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 13:44  
 Operator : MJB / KAK  
 Sample : 9121399-BS1  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:46:52 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

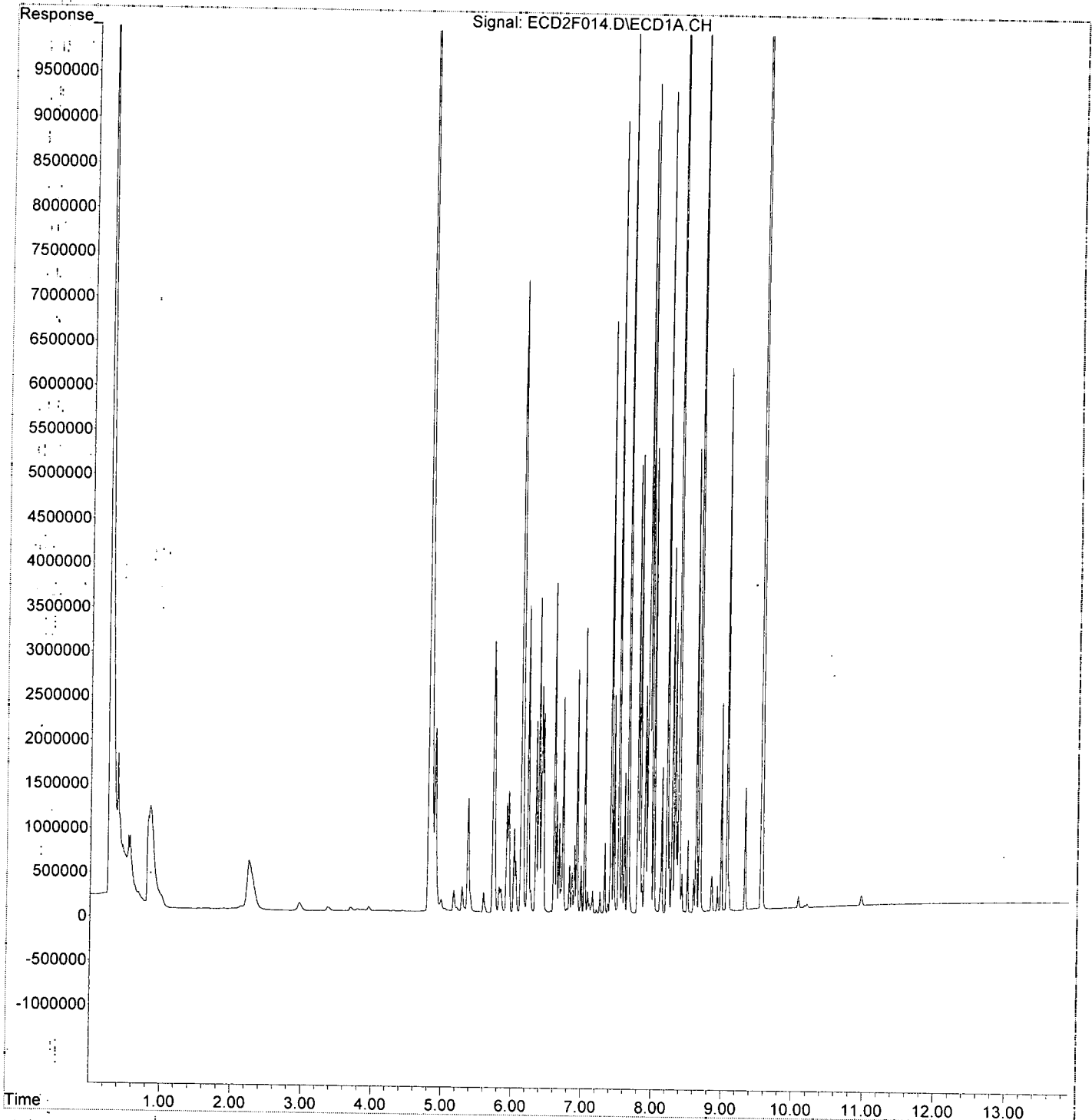
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.651	12251677	1522.626	ng/ml
49) Aroclor 1262 (2)	7.974	9334945	831.616	ng/ml
50) Aroclor 1262 (3)	8.205	9233237	951.396	ng/ml
51) Aroclor 1262 (4)	8.376	23912150	1157.408	ng/ml
52) Aroclor 1262 (5)	8.673	14476668	1106.579	ng/ml
53) Aroclor 1262 (6)	9.063	6115005	915.881	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.205	9233237	1808.936	ng/ml
56) Aroclor 1268 (2)	8.622	5223895	212.997	ng/ml
57) Aroclor 1268 (3)	8.673	14476668	709.147	ng/ml
58) Aroclor 1268 (4)	8.845	401574	20.966	ng/ml
59) Aroclor 1268 (5)	9.063	6115005	789.060	ng/ml
60) Aroclor 1268 (6)	9.321	1384150	26.474	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\0A02025\  
Data File : ECD2F014.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 13:44  
Operator : MJB / KAK  
Sample : 9121399-BS1  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:46:52 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A02025\  
 Data File: ECD2F015.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 14:01  
 Operator : MJB / KAK  
 Sample : 9121399-BSD1  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:47:13 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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G-19

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	4.809	11136581	167.247	ng/ml
62) S DCBP (S)	9.556	28492080	255.134	ng/ml
<b>Target Compounds</b>				
2) Aroclor 1016 (1)	5.721	3086740	825.783	ng/ml
3) Aroclor 1016 (2)	6.132	6919850	961.904	ng/ml
4) Aroclor 1016 (3)	6.215	3222621	811.146	ng/ml
5) Aroclor 1016 (4)	6.370	3499802	978.321	ng/ml
6) Aroclor 1016 (5)	6.592	3565524	858.855	ng/ml
7) Aroclor 1016 (6)	6.717	2326506	793.155	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.162	241495	223.104	ng/ml
10) Aroclor 1221 (2)	5.279	288336	401.824	ng/ml
11) Aroclor 1221 (3)	5.361	1319950	564.054	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.361	1319950	743.143	ng/ml
14) Aroclor 1232 (2)	6.132	6919850	2488.991	ng/ml
15) Aroclor 1232 (3)	6.215	3222621	2196.831	ng/ml
16) Aroclor 1232 (4)	6.370	3499802	3071.713	ng/ml
17) Aroclor 1232 (5)	6.592	3565524	2482.991	ng/ml
18) Aroclor 1232 (6)	6.717	2326506	1941.795	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.721	3086740	1162.165	ng/ml
21) Aroclor 1242 (2)	6.132	6919850	1334.054	ng/ml
22) Aroclor 1242 (3)	6.215	3222621	1142.705	ng/ml
23) Aroclor 1242 (4)	6.370	3499802	1528.845	ng/ml
24) Aroclor 1242 (5)	6.592	3565524	1194.598	ng/ml
25) Aroclor 1242 (6)	6.717	2326506	927.183	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.132	6919850	2033.280	ng/ml
28) Aroclor 1248 (2)	6.370	3499802	775.113	ng/ml
29) Aroclor 1248 (3)	6.592	3565524	683.200	ng/ml
30) Aroclor 1248 (4)	6.885	726614	125.167	ng/ml
31) Aroclor 1248 (5)	6.918	2751356	446.699	ng/ml
32) Aroclor 1248 (6)	7.405	6398347	1872.276	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.918	2751356	458.703	ng/ml
35) Aroclor 1254 (2)	7.028	3237987	444.317	ng/ml
36) Aroclor 1254 (3)	7.405	6398347	570.773	ng/ml
37) Aroclor 1254 (4)	7.563	825382	115.761	ng/ml
38) Aroclor 1254 (5)	7.944	8592117	1121.834	ng/ml
39) Aroclor 1254 (6)	8.234	774972	310.748	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.516	9160206	1099.956	ng/ml
42) Aroclor 1260 (2)	7.649	11454085	1122.686	ng/ml
43) Aroclor 1260 (3)	8.205	8595613	1092.872	ng/ml
44) Aroclor 1260 (4)	8.375	23063190	1238.726	ng/ml
45) Aroclor 1260 (5)	8.673	14597348	1206.794	ng/ml
46) Aroclor 1260 (6)	9.063	6078190	1188.399	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

✓

✓

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F015.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 14:01  
 Operator : MJB / KAK  
 Sample : 9121399-BSD1  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:47:13 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.649	11454085	1423.502	ng/ml
49) Aroclor 1262 (2)	7.973	9102357	810.895	ng/ml
50) Aroclor 1262 (3)	8.205	8595613	885.695	ng/ml
51) Aroclor 1262 (4)	8.375	23063190	1116.316	ng/ml
52) Aroclor 1262 (5)	8.673	14597348	1115.804	ng/ml
53) Aroclor 1262 (6)	9.063	6078190	910.367	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.205	8595613	1684.016	ng/ml
56) Aroclor 1268 (2)	8.621	5090405	207.554	ng/ml
57) Aroclor 1268 (3)	8.673	14597348	715.059	ng/ml
58) Aroclor 1268 (4)	8.846	403990	21.092	ng/ml
59) Aroclor 1268 (5)	9.063	6078190	784.309	ng/ml
60) Aroclor 1268 (6)	9.320	1358293	25.979	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

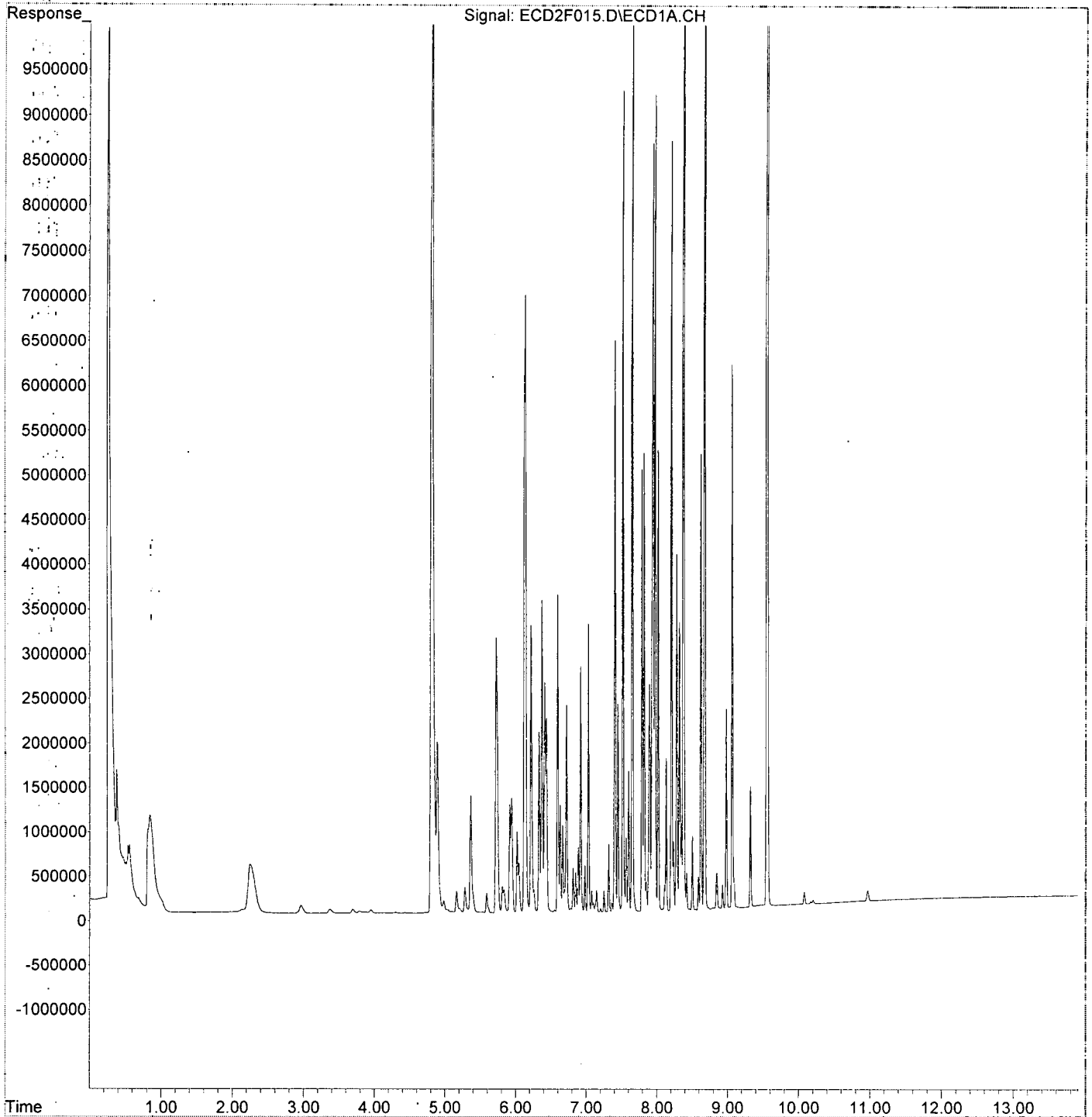
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
Data File : ECD2F015.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 14:01  
Operator : MJB / KAK  
Sample : 9121399-BSD1  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:47:13 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F016.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 14:19  
 Operator : MJB / KAK  
 Sample : A9I0890-03RE1  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:47:34 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*Handwritten:*  
 117120  
 R-04  
 1260

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.810	4344524	65.245 ng/ml
62) S DCBP (S)	9.557	5785893	51.810 ng/ml ✓
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.726	14377	3.846 ng/ml
3) Aroclor 1016 (2)	6.133	61985	8.616 ng/ml
4) Aroclor 1016 (3)	6.216	31673	7.972 ng/ml
5) Aroclor 1016 (4)	6.374	57863	16.175 ng/ml
6) Aroclor 1016 (5)	6.593	45503	10.961 ng/ml
7) Aroclor 1016 (6)	6.718	27361	9.328 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.154	8094	7.478 ng/ml
10) Aroclor 1221 (2)	5.298	5954	8.297 ng/ml
11) Aroclor 1221 (3)	5.357	50055	21.390 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.357	50055	28.181 ng/ml
14) Aroclor 1232 (2)	6.133	61985	22.295 ng/ml
15) Aroclor 1232 (3)	6.216	31673	21.591 ng/ml
16) Aroclor 1232 (4)	6.374	57863	50.785 ng/ml
17) Aroclor 1232 (5)	6.593	45503	31.688 ng/ml
18) Aroclor 1232 (6)	6.718	27361	22.837 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.726	14377	5.413 ng/ml
21) Aroclor 1242 (2)	6.133	61985	11.950 ng/ml
22) Aroclor 1242 (3)	6.216	31673	11.231 ng/ml
23) Aroclor 1242 (4)	6.374	57863	25.277 ng/ml
24) Aroclor 1242 (5)	6.593	45503	15.246 ng/ml
25) Aroclor 1242 (6)	6.718	27361	10.904 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.133	61985	18.213 ng/ml
28) Aroclor 1248 (2)	6.374	57863	12.815 ng/ml
29) Aroclor 1248 (3)	6.593	45503	8.719 ng/ml
30) Aroclor 1248 (4)	6.886	50823	8.755 ng/ml
31) Aroclor 1248 (5)	6.921	107843	17.509 ng/ml
32) Aroclor 1248 (6)	7.403	186209	54.488 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.921	107843	17.979 ng/ml
35) Aroclor 1254 (2)	<del>7.007</del> 7.038	<del>31849</del>	4.370 ng/ml 25.505 MI
36) Aroclor 1254 (3)	7.403	186209	16.611 ng/ml
37) Aroclor 1254 (4)	7.564	68880	9.661 ng/ml
38) Aroclor 1254 (5)	7.943	245637	32.072 ng/ml
39) Aroclor 1254 (6)	8.234	35047	14.053 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.517	223252	26.808 ng/ml
42) Aroclor 1260 (2)	7.651	340824	33.406 ng/ml
43) Aroclor 1260 (3)	8.206	168617	21.438 ng/ml
44) Aroclor 1260 (4)	8.375	465651	25.010 ng/ml
45) Aroclor 1260 (5)	8.673	281169	23.245 ng/ml
46) Aroclor 1260 (6)	9.063	99634	19.480 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*Handwritten:* R-02

*Handwritten:* ↑ MDC

*Handwritten:* 24.898

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F016.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 14:19  
 Operator : MJB / KAK  
 Sample : A9I0890-03RE1  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:47:34 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.651	340824	42.357 ng/ml
49) Aroclor 1262 (2)	7.973	193295	17.220 ng/ml
50) Aroclor 1262 (3)	8.206	168617	17.374 ng/ml
51) Aroclor 1262 (4)	8.375	465651	22.539 ng/ml
52) Aroclor 1262 (5)	8.673	281169	21.492 ng/ml
53) Aroclor 1262 (6)	9.063	99634	14.923 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.206	168617	33.035 ng/ml
56) Aroclor 1268 (2)	8.623	98096	4.000 ng/ml
57) Aroclor 1268 (3)	8.673	281169	13.773 ng/ml
58) Aroclor 1268 (4)	8.851	19747	1.031 ng/ml
59) Aroclor 1268 (5)	9.063	99634	12.856 ng/ml
60) Aroclor 1268 (6)	9.322	47596	0.910 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

(f)=RT Delta > 1/2 Window

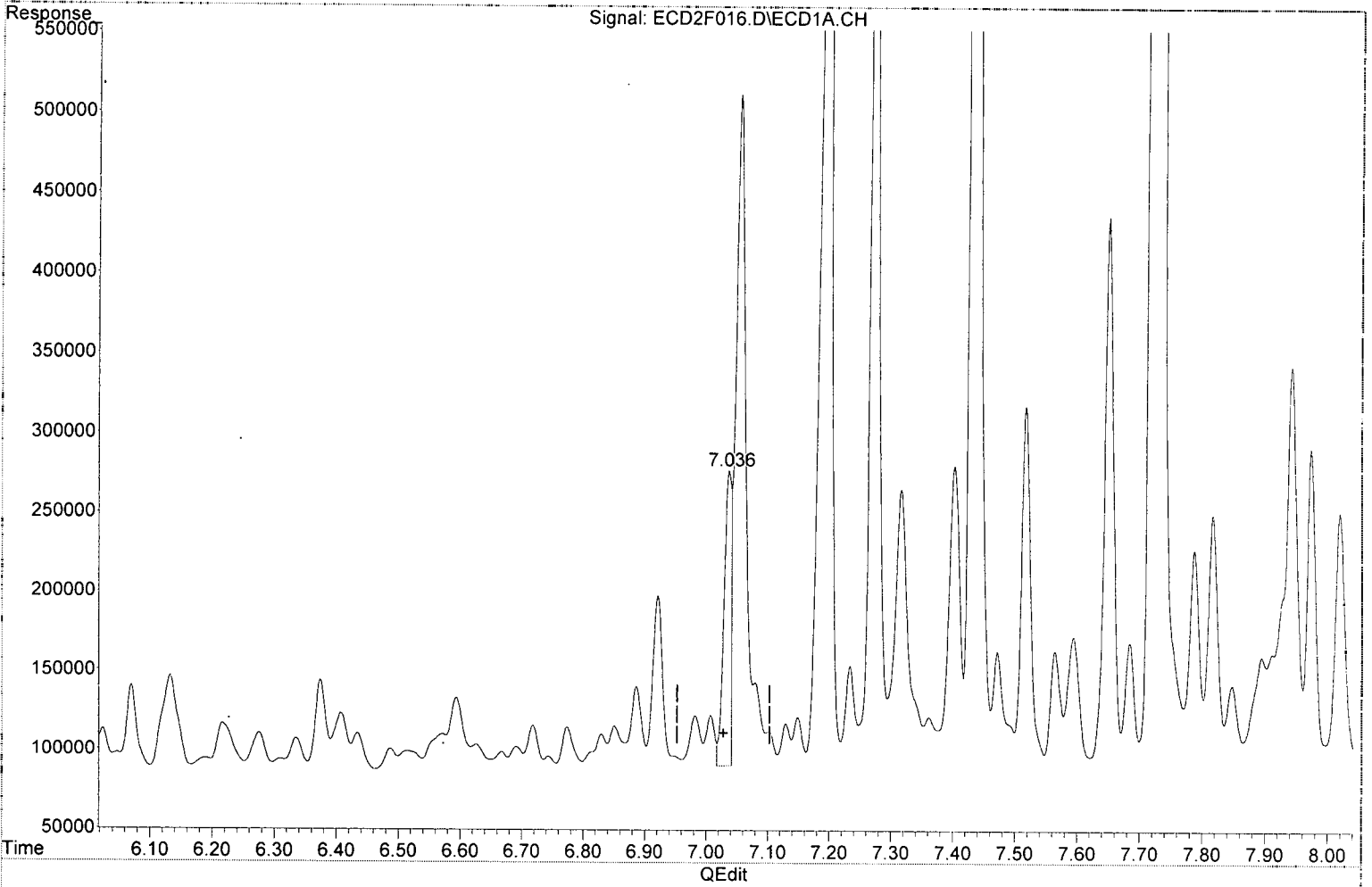
(m)=manual int.



Quantitation Report (Qedit)

Data Path : K:\DATA\0A02025\  
Data File : ECD2F016.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 14:19  
Operator : MJB / KAK  
Sample : A9I0890-03RE1  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:47:34 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

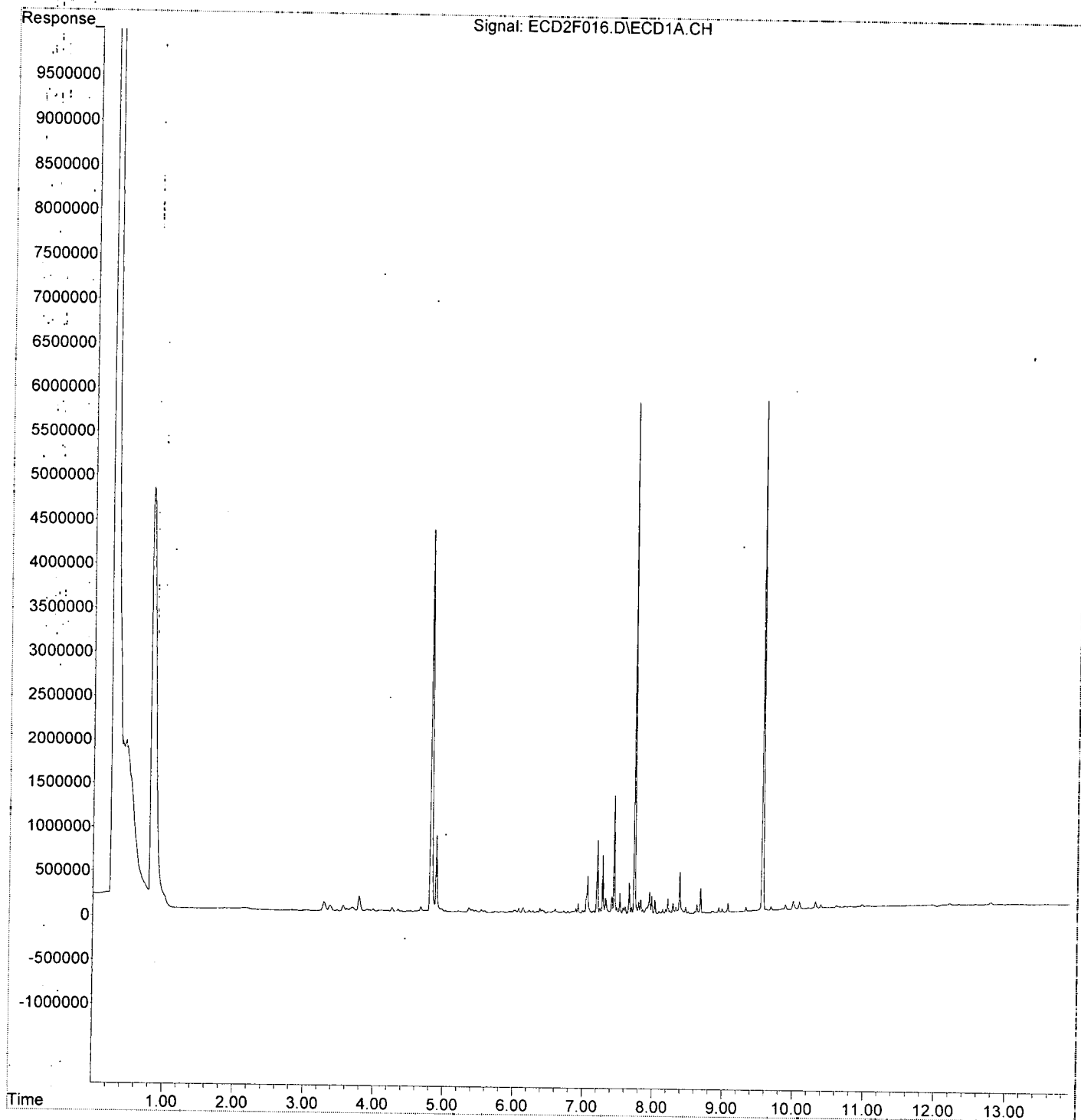


(35) Aroclor 1254 (2)  
7.036min 25.505 ng/ml(m) *MJB* 117120  
response 185866

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
Data File : ECD2F016.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 14:19  
Operator : MJB / KAK  
Sample : A9I0890-03RE1  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:47:34 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F018.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 14:54  
 Operator : MJB / KAK  
 Sample : A9I0890-04RE1  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:47:56 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*M*  
11/7/20

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.803	14477389	217.418 ng/ml
62) S DCBP (S)	9.555	19344883	173.225 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.715	1845	0.494 ng/ml
3) Aroclor 1016 (2)	6.130	3122	0.434 ng/ml
4) Aroclor 1016 (3)	6.208	2398	0.604 ng/ml
5) Aroclor 1016 (4)	6.370	3138	0.877 ng/ml
6) Aroclor 1016 (5)	6.565	23838	5.742 ng/ml
7) Aroclor 1016 (6)	6.720	2391	0.815 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.154	7368	6.807 ng/ml
10) Aroclor 1221 (2)	5.282	9804	13.663 ng/ml
11) Aroclor 1221 (3)	5.370	13669	5.841 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.370	13669	7.696 ng/ml
14) Aroclor 1232 (2)	6.130	3122	1.123 ng/ml
15) Aroclor 1232 (3)	6.208	2398	1.635 ng/ml
16) Aroclor 1232 (4)	6.370	3138	2.754 ng/ml
17) Aroclor 1232 (5)	6.565	23838	16.600 ng/ml
18) Aroclor 1232 (6)	6.720	2391	1.996 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.715	1845	0.695 ng/ml
21) Aroclor 1242 (2)	6.130	3122	0.602 ng/ml
22) Aroclor 1242 (3)	6.208	2398	0.850 ng/ml
23) Aroclor 1242 (4)	6.370	3138	1.371 ng/ml
24) Aroclor 1242 (5)	6.565	23838	7.987 ng/ml
25) Aroclor 1242 (6)	6.720	2391	0.953 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.130	3122	0.917 ng/ml
28) Aroclor 1248 (2)	6.370	3138	0.695 ng/ml
29) Aroclor 1248 (3)	6.565	23838	4.568 ng/ml
30) Aroclor 1248 (4)	6.870	4087	0.704 ng/ml
31) Aroclor 1248 (5)	6.919	3656	0.594 ng/ml
32) Aroclor 1248 (6)	7.396	10148	2.970 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.919	3656	0.610 ng/ml
35) Aroclor 1254 (2)	7.029	3805	0.522 ng/ml
36) Aroclor 1254 (3)	7.396	10148	0.905 ng/ml
37) Aroclor 1254 (4)	7.572	11777	1.652 ng/ml
38) Aroclor 1254 (5)	7.944	5465	0.714 ng/ml
39) Aroclor 1254 (6)	8.231	4990	2.001 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.517	4586	0.551 ng/ml
42) Aroclor 1260 (2)	7.650	5725	0.561 ng/ml
43) Aroclor 1260 (3)	8.204	3922	0.499 ng/ml
44) Aroclor 1260 (4)	8.363	14956	0.803 ng/ml
45) Aroclor 1260 (5)	8.667	11608	0.960 ng/ml
46) Aroclor 1260 (6)	9.063	2456	0.480 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F018.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 14:54  
 Operator : MJB / KAK  
 Sample : A9I0890-04RE1  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:47:56 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

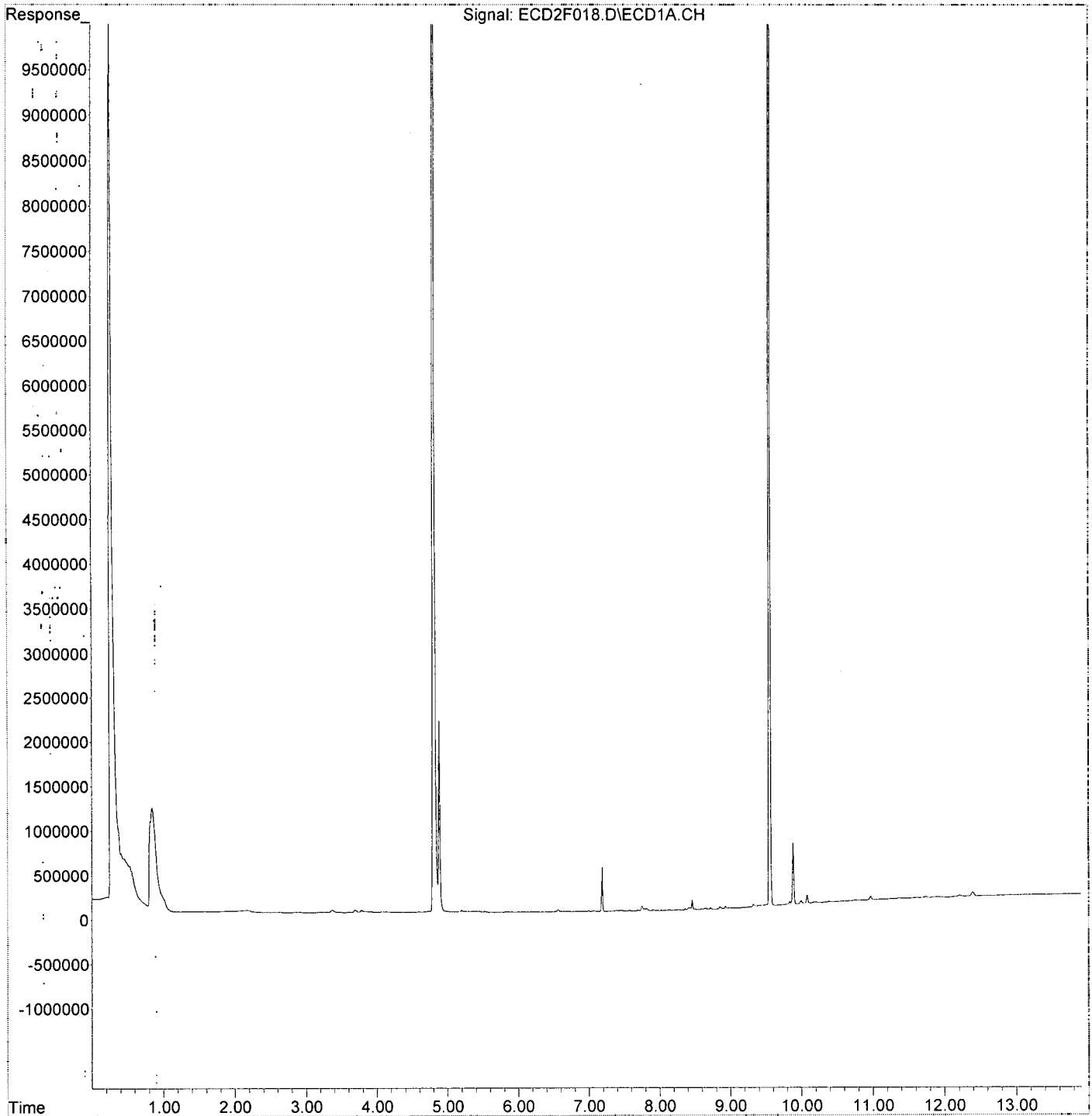
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.650	5725	0.711 ng/ml
49) Aroclor 1262 (2)	7.973	3649	0.325 ng/ml
50) Aroclor 1262 (3)	8.204	3922	0.404 ng/ml
51) Aroclor 1262 (4)	8.363	14956	0.724 ng/ml
52) Aroclor 1262 (5)	8.667	11608	0.887 ng/ml
53) Aroclor 1262 (6)	9.063	2456	0.368 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.204	3922	0.768 ng/ml
56) Aroclor 1268 (2)	8.642	13703	0.559 ng/ml
57) Aroclor 1268 (3)	8.667	11608	0.569 ng/ml
58) Aroclor 1268 (4)	8.851	26707	1.394 ng/ml
59) Aroclor 1268 (5)	9.063	2456	0.317 ng/ml
60) Aroclor 1268 (6)	9.322	30899	0.591 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\0A02025\  
Data File : ECD2F018.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 14:54  
Operator : MJB / KAK  
Sample : A9I0890-04RE1  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:47:56 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\0A02025\  
 Data File : ECD2F025.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 16:47  
 Operator : MJB / KAK  
 Sample : 0A02025-CCV3  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:49:02 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten signature]*  
 1/7/20

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.806	18722726	281.174 ng/ml
62) S DCBP (S)	9.554	31262272	279.939 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.720	1977619	529.064 ng/ml
3) Aroclor 1016 (2)	6.132	4206647	584.751 ng/ml
4) Aroclor 1016 (3)	6.214	2162696	544.359 ng/ml
5) Aroclor 1016 (4)	6.370	1960994	548.169 ng/ml
6) Aroclor 1016 (5)	6.591	2314859	557.598 ng/ml
7) Aroclor 1016 (6)	6.717	1652359	563.324 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.159	182766	168.847 ng/ml
10) Aroclor 1221 (2)	5.279	206002	287.084 ng/ml
11) Aroclor 1221 (3)	5.359	944722	403.708 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.359	944722	531.887 ng/ml
14) Aroclor 1232 (2)	6.132	4206647	1513.083 ng/ml
15) Aroclor 1232 (3)	6.214	2162696	1474.290 ng/ml
16) Aroclor 1232 (4)	6.370	1960994	1721.129 ng/ml
17) Aroclor 1232 (5)	6.591	2314859	1612.042 ng/ml
18) Aroclor 1232 (6)	6.717	1652359	1379.125 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.720	1977619	744.578 ng/ml
21) Aroclor 1242 (2)	6.132	4206647	810.985 ng/ml
22) Aroclor 1242 (3)	6.214	2162696	766.867 ng/ml
23) Aroclor 1242 (4)	6.370	1960994	856.636 ng/ml
24) Aroclor 1242 (5)	6.591	2314859	775.573 ng/ml
25) Aroclor 1242 (6)	6.717	1652359	658.515 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.132	4206647	1236.052 ng/ml
28) Aroclor 1248 (2)	6.370	1960994	434.308 ng/ml
29) Aroclor 1248 (3)	6.591	2314859	443.556 ng/ml
30) Aroclor 1248 (4)	6.884	427462	73.635 ng/ml
31) Aroclor 1248 (5)	6.917	1534038	249.060 ng/ml
32) Aroclor 1248 (6)	7.403	3481964	1018.888 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.917	1534038	255.753 ng/ml
35) Aroclor 1254 (2)	7.027	1608539	220.724 ng/ml
36) Aroclor 1254 (3)	7.403	3481964	310.613 ng/ml
37) Aroclor 1254 (4)	7.562	478450	67.104 ng/ml
38) Aroclor 1254 (5)	7.942	4493361	586.678 ng/ml
39) Aroclor 1254 (6)	8.233	468998	188.059 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.516	4455136	534.972 ng/ml
42) Aroclor 1260 (2)	7.649	5655614	554.342 ng/ml
43) Aroclor 1260 (3)	8.204	4324965	549.889 ng/ml
44) Aroclor 1260 (4)	8.374	10215041	548.651 ng/ml
45) Aroclor 1260 (5)	8.671	6863941	567.457 ng/ml
46) Aroclor 1260 (6)	9.061	2644194	516.989 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F025.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 16:47  
 Operator : MJB / KAK  
 Sample : 0A02025-CCV3  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:49:02 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

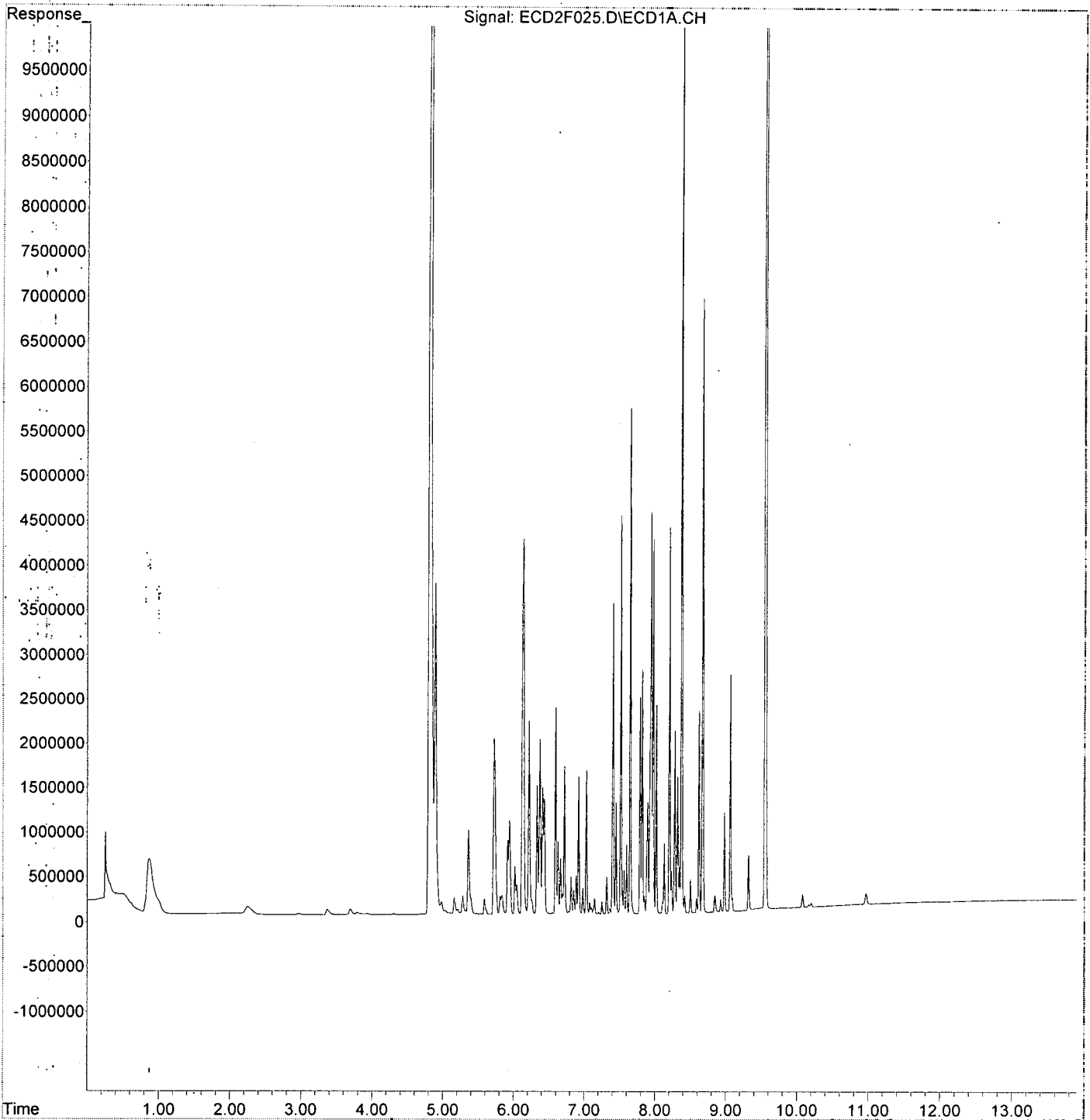
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.649	5655614	702.874	ng/ml
49) Aroclor 1262 (2)	7.972	4188557	373.143	ng/ml
50) Aroclor 1262 (3)	8.204	4324965	445.646	ng/ml
51) Aroclor 1262 (4)	8.374	10215041	494.433	ng/ml
52) Aroclor 1262 (5)	8.671	6863941	524.671	ng/ml
53) Aroclor 1262 (6)	9.061	2644194	396.037	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.204	4324965	847.329	ng/ml
56) Aroclor 1268 (2)	8.620	2256159	91.992	ng/ml
57) Aroclor 1268 (3)	8.671	6863941	336.234	ng/ml
58) Aroclor 1268 (4)	8.846	185919	9.707	ng/ml
59) Aroclor 1268 (5)	9.061	2644194	341.198	ng/ml
60) Aroclor 1268 (6)	9.319	614150	11.747	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\0A02025\  
Data File : ECD2F025.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 16:47  
Operator : MJB / KAK  
Sample : 0A02025-CCV3  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:49:02 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Data Path : K:\DATA\0A02025\  
 Data File : ECD2F026.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 17:05  
 Operator : MJB / KAK  
 Sample : 0A02025-CCB3  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:49:24 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten Signature]*  
 1/7/20

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.805	7350983	110.395 ng/ml
62) S DCBP (S)	9.553	12666308	113.421 ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.713	1316	0.352 ng/ml
3) Aroclor 1016 (2)	6.135	4699	0.653 ng/ml
4) Aroclor 1016 (3)	6.226	3710	0.934 ng/ml
5) Aroclor 1016 (4)	6.375	2691	0.752 ng/ml
6) Aroclor 1016 (5)	6.598	4434	1.068 ng/ml
7) Aroclor 1016 (6)	6.722	3900	1.330 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.174	11651	10.764 ng/ml
10) Aroclor 1221 (2)	5.281	13608	18.964 ng/ml
11) Aroclor 1221 (3)	5.356	10812	4.620 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.356	10812	6.087 ng/ml
14) Aroclor 1232 (2)	6.135	4699	1.690 ng/ml
15) Aroclor 1232 (3)	6.226	3710	2.529 ng/ml
16) Aroclor 1232 (4)	6.375	2691	2.362 ng/ml
17) Aroclor 1232 (5)	6.598	4434	3.088 ng/ml
18) Aroclor 1232 (6)	6.722	3900	3.255 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.713	1316	0.496 ng/ml
21) Aroclor 1242 (2)	6.135	4699	0.906 ng/ml
22) Aroclor 1242 (3)	6.226	3710	1.315 ng/ml
23) Aroclor 1242 (4)	6.375	2691	1.176 ng/ml
24) Aroclor 1242 (5)	6.598	4434	1.486 ng/ml
25) Aroclor 1242 (6)	6.722	3900	1.554 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.135	4699	1.381 ng/ml
28) Aroclor 1248 (2)	6.375	2691	0.596 ng/ml
29) Aroclor 1248 (3)	6.598	4434	0.850 ng/ml
30) Aroclor 1248 (4)	6.886	3778	0.651 ng/ml
31) Aroclor 1248 (5)	6.918	4253	0.690 ng/ml
32) Aroclor 1248 (6)	7.399	8171	2.391 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.918	4253	0.709 ng/ml
35) Aroclor 1254 (2)	7.030	5096	0.699 ng/ml
36) Aroclor 1254 (3)	7.399	8171	0.729 ng/ml
37) Aroclor 1254 (4)	7.564	4591	0.644 ng/ml
38) Aroclor 1254 (5)	7.944	5171	0.675 ng/ml
39) Aroclor 1254 (6)	8.234	1163	0.466 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.515	6142	0.738 ng/ml
42) Aroclor 1260 (2)	7.650	5450	0.534 ng/ml
43) Aroclor 1260 (3)	8.205	1372	0.174 ng/ml
44) Aroclor 1260 (4)	8.372	5430	0.292 ng/ml
45) Aroclor 1260 (5)	8.673	2617	0.216 ng/ml
46) Aroclor 1260 (6)	9.064	1292	0.253 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Data Path : K:\DATA\0A02025\  
 Data File : ECD2F026.D  
 Signal(s) : ECD1A.CH  
 Acq On : 02 Jan 2020 17:05  
 Operator : MJB / KAK  
 Sample : 0A02025-CCB3  
 Misc :  
 ALS Vial : 3 . Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Jan 07 08:49:24 2020  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

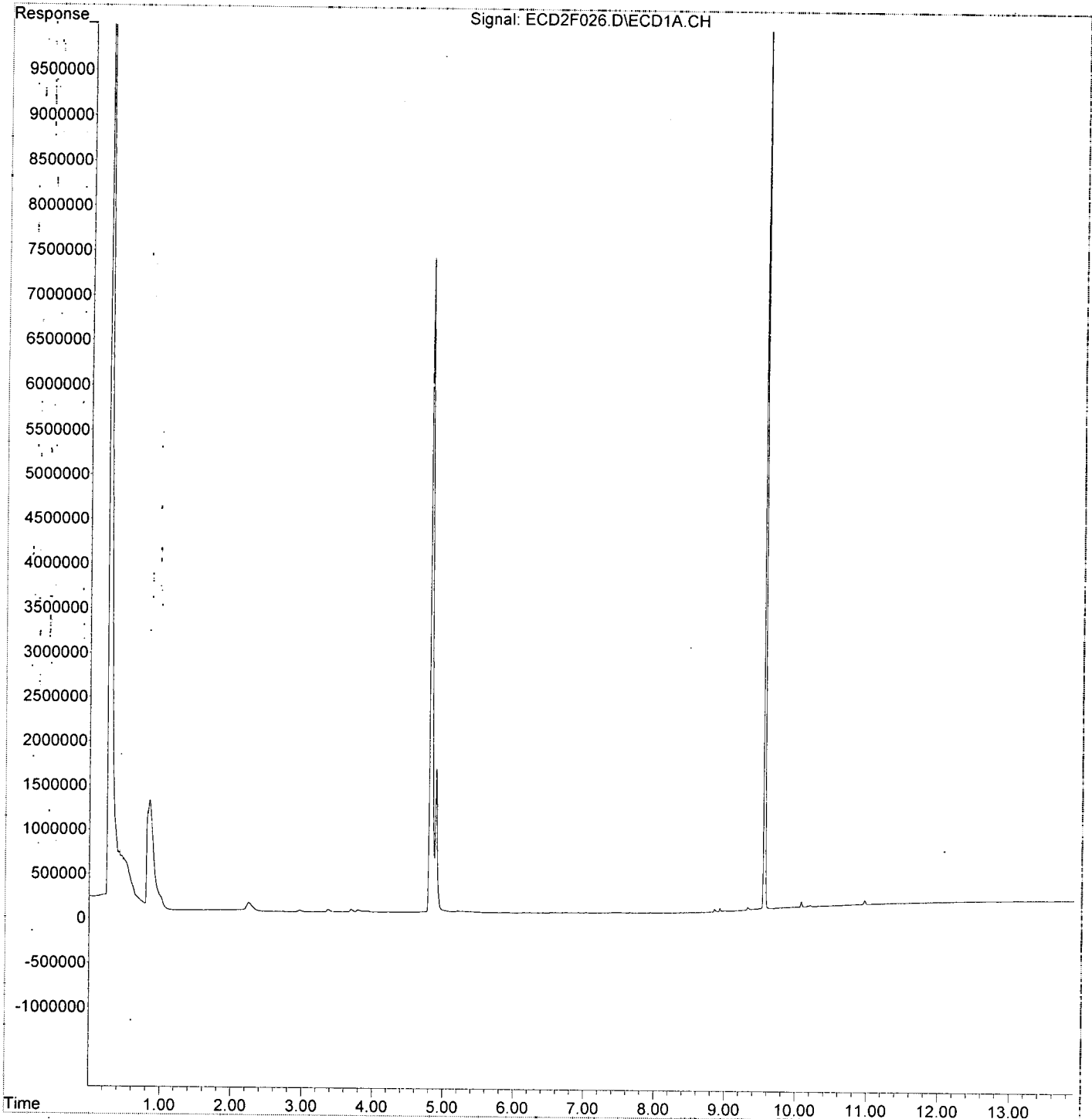
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.650	5450	0.677 ng/ml
49) Aroclor 1262 (2)	7.972	2094	0.187 ng/ml
50) Aroclor 1262 (3)	8.205	1372	0.141 ng/ml
51) Aroclor 1262 (4)	8.372	5430	0.263 ng/ml
52) Aroclor 1262 (5)	8.673	2617	0.200 ng/ml
53) Aroclor 1262 (6)	9.064	1292	0.193 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.205	1372	0.269 ng/ml
56) Aroclor 1268 (2)	8.622	843	0.034 ng/ml
57) Aroclor 1268 (3)	8.673	2617	0.128 ng/ml
58) Aroclor 1268 (4)	8.852	31487	1.644 ng/ml
59) Aroclor 1268 (5)	9.064	1292	0.167 ng/ml
60) Aroclor 1268 (6)	9.322	32474	0.621 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\0A02025\  
Data File : ECD2F026.D  
Signal(s) : ECD1A.CH  
Acq On : 02 Jan 2020 17:05  
Operator : MJB / KAK  
Sample : 0A02025-CCB3  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Jan 07 08:49:24 2020  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203RT1.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Polychlorinated Biphenyls by EPA 8082A  
Calibration Data**

Sequence 9L03052 (Cal ID A9L0407) DUALECD2F



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 9L03052

Instrument: DUALECD2F

Date: 12/03/19 16:21

Calibration: A9L0407

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L03052-ICB1	Water	QC	QC				A19K026
2	9L03052-CAL1	Water	QC	QC				A19F250
3	9L03052-CAL2	Water	QC	QC				A19F251
4	9L03052-CAL3	Water	QC	QC				A19F252
5	9L03052-CAL4	Water	QC	QC				A19F253
6	9L03052-CAL5	Water	QC	QC				A19F247
7	9L03052-CAL6	Water	QC	QC				A19F248
8	9L03052-CAL7	Water	QC	QC				A19F249
9	9L03052-IBL1	Water	QC	QC				
10	9L03052-ICV1	Water	QC	QC				A19H459
11	9L03052-CAL8	Water	QC	QC				A19H447
12	9L03052-CAL9	Water	QC	QC				A19H448
13	9L03052-CALA	Water	QC	QC				A19H449
14	9L03052-CALB	Water	QC	QC				A19H450
15	9L03052-CALC	Water	QC	QC				A19H451
16	9L03052-CALD	Water	QC	QC				A19H452
17	9L03052-CALE	Water	QC	QC				A19H453
18	9L03052-ICV2	Water	QC	QC				A19H405
19	9L03052-ICV3	Water	QC	QC				A19J367
20	9L03052-ICV4	Water	QC	QC				A19H406
21	9L03052-ICV5	Water	QC	QC				A19L037

Data Entered By: [Signature] 12/14/19

Comments:

Data Reviewed By: [Signature] 12/19/19

Calibration Status Report HP G1530A

Method Path : K:\METHODS\  
 Method File : FECD2\_QUANTPCB\_191203.M  
 Title : PCB Data Analysis  
 Last Update : Wed Dec 04 15:29:22 2019  
 Response Via : Initial Calibration

A9L0407  
 12/4/19

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	K:\DATA\9L03052\ECD2F003.D
2	2	25	0	K:\DATA\9L03052\ECD2F004.D
3	3	50	0	K:\DATA\9L03052\ECD2F005.D
4	4	100	0	K:\DATA\9L03052\ECD2F006.D
5	5	250	0	K:\DATA\9L03052\ECD2F018.D
6	6	500	0	K:\DATA\9L03052\ECD2F008.D
7	7	800	0	K:\DATA\9L03052\ECD2F009.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Dec 04 15:26 2019	Dec 04 14:50 2019	03 Dec 2019 17:04
2	2	Dec 04 15:26 2019	Dec 04 14:51 2019	03 Dec 2019 17:22
3	3	Dec 04 15:27 2019	Dec 04 14:52 2019	03 Dec 2019 17:40
4	4	Dec 04 15:27 2019	Dec 04 14:54 2019	03 Dec 2019 17:57
5	5	Dec 04 15:29 2019	Dec 04 15:14 2019	03 Dec 2019 21:29
6	6	Dec 04 15:27 2019	Dec 04 14:56 2019	03 Dec 2019 18:32
7	7	Dec 04 15:27 2019	Dec 04 14:57 2019	03 Dec 2019 18:50

FECD2\_QUANTPCB\_191203.M Wed Dec 04 16:46:54 2019

Response Factor Report HP G1530A

Method Path : K:\METHODS\  
 Method File : FECD2\_QUANTPCB\_191203.M  
 Title : PCB Data Analysis  
 Last Update : Wed Dec 04 15:29:22 2019  
 Response Via : Initial Calibration

Calibration Files

1 =ECD2F003.D 2 =ECD2F004.D 3 =ECD2F005.D  
 4 =ECD2F006.D 5 =ECD2F018.D 6 =ECD2F008.D

*[Handwritten Signature]*  
 12/14/19

Compound	1	2	3	4	5	6	Avg	%RSD
1) S TCMX (S)	6.079	6.081	6.245	6.243	7.658	6.722	6.659	E4 10.39
2) Aroclor 1016 ...	4.495	3.869	3.742	3.519	3.743	3.364	3.738	E3 10.19 ✓
3) Aroclor 1016 ...	8.056	7.042	7.109	6.630	7.719	6.834	7.194	E3 7.06 ✓
4) Aroclor 1016 ...	4.743	3.990	3.903	3.717	4.044	3.751	3.973	E3 9.28 ✓
5) Aroclor 1016 ...	4.368	3.818	3.564	3.253	3.640	3.257	3.577	E3 11.88 ✓
6) Aroclor 1016 ...	4.872	4.418	4.040	3.837	4.384	3.740	4.151	E3 10.18 ✓
7) Aroclor 1016 (6)	3.414	3.076	2.908	2.718	2.969	2.774	2.933	E3 8.72 ✓
8) Aroclor 1016 ...							0.000	-1.00
9) Aroclor 1221 (1)					1.082		1.082	E3 0.00
10) Aroclor 1221 (2)					7.176		7.176	E2 0.00
11) Aroclor 1221 (3)					2.340		2.340	E3 0.00
12) Aroclor 1221 ...							0.000	-1.00
13) Aroclor 1232 (1)					1.776		1.776	E3 0.00
14) Aroclor 1232 (2)					2.780		2.780	E3 0.00
15) Aroclor 1232 (3)					1.467		1.467	E3 0.00
16) Aroclor 1232 (4)					1.139		1.139	E3 0.00
17) Aroclor 1232 (5)					1.436		1.436	E3 0.00
18) Aroclor 1232 (6)					1.198		1.198	E3 0.00
19) Aroclor 1232 ...							0.000	-1.00
20) Aroclor 1242 ...					2.656		2.656	E3 0.00
21) Aroclor 1242 ...					5.187		5.187	E3 0.00
22) Aroclor 1242 ...					2.820		2.820	E3 0.00
23) Aroclor 1242 ...					2.289		2.289	E3 0.00
24) Aroclor 1242 ...					2.985		2.985	E3 0.00
25) Aroclor 1242 (6)					2.509		2.509	E3 0.00
26) Aroclor 1242 ...							0.000	-1.00
27) Aroclor 1248 ...					3.403		3.403	E3 0.00
28) Aroclor 1248 ...					4.515		4.515	E3 0.00
29) Aroclor 1248 ...					5.219		5.219	E3 0.00
30) Aroclor 1248 ...					5.805		5.805	E3 0.00
31) Aroclor 1248 ...					6.159		6.159	E3 0.00
32) Aroclor 1248 (6)					3.417		3.417	E3 0.00
33) Aroclor 1248 ...							0.000	-1.00
34) Aroclor 1254 ...					5.998		5.998	E3 0.00
35) Aroclor 1254 ...					7.288		7.288	E3 0.00
36) Aroclor 1254 ...					1.121		1.121	E4 0.00
37) Aroclor 1254 ...					7.130		7.130	E3 0.00
38) Aroclor 1254 ...					7.659		7.659	E3 0.00
39) Aroclor 1254 (6)					2.494		2.494	E3 0.00
40) Aroclor 1254 ...							0.000	-1.00
41) Aroclor 1260 ...	9.306	8.379	8.424	7.901	8.847	7.808	8.328	E3 7.24 ✓
42) Aroclor 1260 ...	1.127	1.013	1.013	0.961	1.065	0.959	1.020	E4 5.79 ✓
43) Aroclor 1260 (3)	8.939	8.042	8.022	7.279	7.996	7.355	7.865	E3 7.39 ✓
44) Aroclor 1260 (4)	1.870	1.889	1.833	1.808	2.018	1.771	1.862	E4 4.24 ✓
45) Aroclor 1260 (5)	1.271	1.231	1.222	1.136	1.258	1.158	1.210	E4 4.14 ✓
46) Aroclor 1260 (6)	5.766	5.178	5.115	4.649	5.398	4.726	5.115	E3 7.56 ✓
47) Aroclor 1260 ...							0.000	-1.00
48) Aroclor 1262 (1)					8.046		8.046	E3 0.00
49) Aroclor 1262 (2)					1.123		1.123	E4 0.00
50) Aroclor 1262 (3)					9.705		9.705	E3 0.00
51) Aroclor 1262 (4)					2.066		2.066	E4 0.00
52) Aroclor 1262 (5)					1.308		1.308	E4 0.00
53) Aroclor 1262 (6)					6.677		6.677	E3 0.00
54) Aroclor 1262 ...							0.000	-1.00
55) Aroclor 1268 (1)					5.104		5.104	E3 0.00
56) Aroclor 1268 (2)					2.453		2.453	E4 0.00
57) Aroclor 1268 (3)					2.041		2.041	E4 0.00
58) Aroclor 1268 (4)					1.915		1.915	E4 0.00
59) Aroclor 1268 (5)					7.750		7.750	E3 0.00
60) Aroclor 1268 (6)					5.228		5.228	E4 0.00

Response Factor Report HP G1530A

Method Path : K:\METHODS\  
 Method File : FECD2\_QUANTPCB\_191203.M  
 Title : PCB Data Analysis  
 Last Update : Wed Dec 04 15:29:22 2019  
 Response Via : Initial Calibration

Calibration Files

1	=ECD2F003.D	2	=ECD2F004.D	3	=ECD2F005.D
4	=ECD2F006.D	5	=ECD2F018.D	6	=ECD2F008.D

Compound	1	2	3	4	5	6	Avg	%RSD
61) Aroclor 1268 ...							0.000	-1.00
62) S DCBP (S)	1.085	1.080	1.138	1.058	1.243	1.098	1.117 E5	5.50 ✓

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



Compound List Report HP G1530A

Method Path : K:\METHODS\  
 Method File : FECD2\_QUANTPCB\_191203.M  
 Title : PCB Data Analysis  
 Last Update : Wed Dec 04 15:29:22 2019  
 Response Via : Initial Calibration

*Handwritten signature*  
 12/14/19

Total Cpnds : 62

PK#	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S TCMX (S)	4.811	1.000	A	H	L
2	Aroclor 1016 (1)	5.729	1.000	A	H	R
3	Aroclor 1016 (2)	6.143	1.000	A	H	R
4	Aroclor 1016 (3)	6.225	1.000	A	H	R
5	Aroclor 1016 (4)	6.382	1.000	A	H	R
6	Aroclor 1016 (5)	6.604	1.000	A	H	R
7	Aroclor 1016 (6)	6.730	1.000	A	H	R
8	Aroclor 1016 - AVE	0.749	1.000	A	H	R
9	Aroclor 1221 (1)	5.167	1.000	A	H	R
10	Aroclor 1221 (2)	5.285	1.000	A	H	R
11	Aroclor 1221 (3)	5.366	1.000	A	H	R
12	Aroclor 1221 - AVE	0.749	1.000	A	H	R
13	Aroclor 1232 (1)	5.367	1.000	A	H	R
14	Aroclor 1232 (2)	6.142	1.000	A	H	R
15	Aroclor 1232 (3)	6.225	1.000	A	H	R
16	Aroclor 1232 (4)	6.381	1.000	A	H	R
17	Aroclor 1232 (5)	6.603	1.000	A	H	R
18	Aroclor 1232 (6)	6.730	1.000	A	H	R
19	Aroclor 1232 - AVE	0.749	1.000	A	H	R
20	Aroclor 1242 (1)	5.728	1.000	A	H	R
21	Aroclor 1242 (2)	6.141	1.000	A	H	R
22	Aroclor 1242 (3)	6.224	1.000	A	H	R
23	Aroclor 1242 (4)	6.380	1.000	A	H	R
24	Aroclor 1242 (5)	6.603	1.000	A	H	R
25	Aroclor 1242 (6)	6.728	1.000	A	H	R
26	Aroclor 1242 - AVE	0.749	1.000	A	H	R
27	Aroclor 1248 (1)	6.131	1.000	A	H	R
28	Aroclor 1248 (2)	6.380	1.000	A	H	R
29	Aroclor 1248 (3)	6.601	1.000	A	H	R
30	Aroclor 1248 (4)	6.897	1.000	A	H	R
31	Aroclor 1248 (5)	6.934	1.000	A	H	R
32	Aroclor 1248 (6)	7.411	1.000	A	H	R
33	Aroclor 1248 - AVE	0.749	1.000	A	H	R
34	Aroclor 1254 (1)	6.930	1.000	A	H	R
35	Aroclor 1254 (2)	7.040	1.000	A	H	R
36	Aroclor 1254 (3)	7.412	1.000	A	H	R
37	Aroclor 1254 (4)	7.577	1.000	A	H	R
38	Aroclor 1254 (5)	7.958	1.000	A	H	R
39	Aroclor 1254 (6)	8.250	1.000	A	H	R
40	Aroclor 1254 - AVE	0.749	1.000	A	H	R
41	Aroclor 1260 (1)	7.532	1.000	A	H	R
42	Aroclor 1260 (2)	7.665	1.000	A	H	R
43	Aroclor 1260 (3)	8.221	1.000	A	H	R
44	Aroclor 1260 (4)	8.391	1.000	A	H	R
45	Aroclor 1260 (5)	8.690	1.000	A	H	R
46	Aroclor 1260 (6)	9.082	1.000	A	H	R
47	Aroclor 1260 - AVE	0.749	1.000	A	H	R
48	Aroclor 1262 (1)	7.664	1.000	A	H	R
49	Aroclor 1262 (2)	7.988	1.000	A	H	R
50	Aroclor 1262 (3)	8.220	1.000	A	H	R
51	Aroclor 1262 (4)	8.390	1.000	A	H	R
52	Aroclor 1262 (5)	8.688	1.000	A	H	R
53	Aroclor 1262 (6)	9.081	1.000	A	H	R
54	Aroclor 1262 - AVE	0.749	1.000	A	H	R
55	Aroclor 1268 (1)	8.212	1.000	A	H	R
56	Aroclor 1268 (2)	8.637	1.000	A	H	R

57	Aroclor 1268 (3)	8.685	1.000	A	H	R
58	Aroclor 1268 (4)	8.867	1.000	A	H	R
59	Aroclor 1268 (5)	9.080	1.000	A	H	R
60	Aroclor 1268 (6)	9.340	1.000	A	H	R
61	Aroclor 1268 - AVE	0.752	1.000	A	H	R
62	S DCBP (S)	9.578	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

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FECD2\_QUANTPCB\_191203.M Wed Dec 04 16:46:45 2019

## Element Calibration Review Sheet

Calibration ID: **A9L0407**

Instrument: **DUALECD2F**

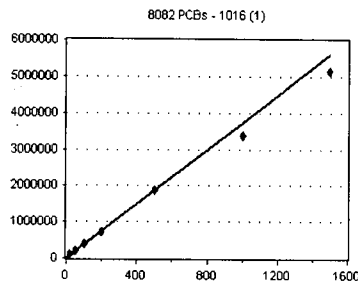
Calibration Date: **12/04/2019**

Analysis: **8082 PCBs**

Instrument Cal ID: **FECD2\_QUANTPCB\_19120**

### 1016 (1)

Curve Fit: **AVERAGE RF**

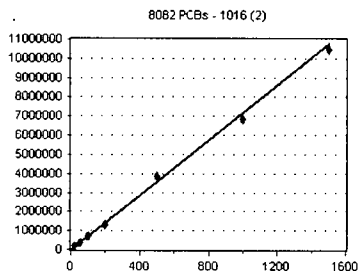


Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	89904	4495.200	5.73
9L03052-CAL2	50	193429	3868.580	5.73
9L03052-CAL3	100	374224	3742.240	5.73
9L03052-CAL4	200	703735	3518.675	5.73
9L03052-CAL5	500	1871482	3742.964	5.73
9L03052-CAL6	1000	3364096	3364.096	5.73
9L03052-CAL7	1500	5150886	3433.924	5.73

**AVE RF** 3737.954      **RF RSD** 10.19      **AVE RT** 5.73

### 1016 (2)

Curve Fit: **AVERAGE RF**

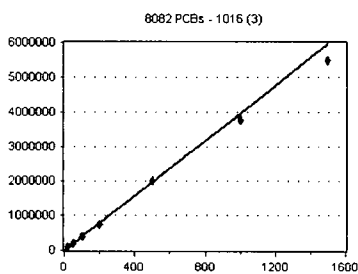


Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	161114	8055.700	6.14
9L03052-CAL2	50	352080	7041.600	6.14
9L03052-CAL3	100	710924	7109.240	6.14
9L03052-CAL4	200	1325963	6629.815	6.14
9L03052-CAL5	500	3859736	7719.472	6.14
9L03052-CAL6	1000	6834377	6834.377	6.14
9L03052-CAL7	1500	045072E+07	6967.146	6.14

**AVE RF** 7193.907      **RF RSD** 7.06      **AVE RT** 6.14

### 1016 (3)

Curve Fit: **AVERAGE RF**

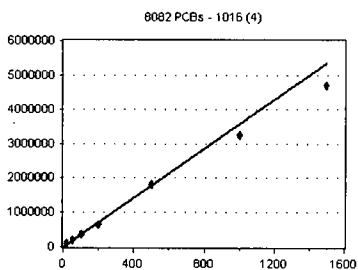


Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	94866	4743.300	6.23
9L03052-CAL2	50	199490	3989.800	6.23
9L03052-CAL3	100	390273	3902.730	6.23
9L03052-CAL4	200	743377	3716.885	6.22
9L03052-CAL5	500	2022155	4044.310	6.23
9L03052-CAL6	1000	3751237	3751.237	6.23
9L03052-CAL7	1500	5493308	3662.205	6.22

**AVE RF** 3972.924      **RF RSD** 9.28      **AVE RT** 6.22

### 1016 (4)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	87352	4367.600	6.38
9L03052-CAL2	50	190893	3817.860	6.38
9L03052-CAL3	100	356425	3564.250	6.38
9L03052-CAL4	200	650662	3253.310	6.38
9L03052-CAL5	500	1820005	3640.010	6.38
9L03052-CAL6	1000	3257104	3257.104	6.38
9L03052-CAL7	1500	4711985	3141.323	6.38

**AVE RF** 3577.351      **RF RSD** 11.88      **AVE RT** 6.38

## Element Calibration Review Sheet

Calibration ID: **A9L0407**

Instrument: **DUALECD2F**

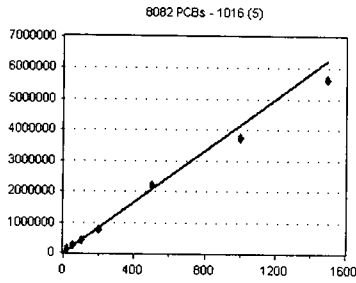
Calibration Date: **12/04/2019**

Analysis: **8082 PCBs**

Instrument Cal ID: **FECD2\_QUANTPCB\_19120**

### 1016 (5)

Curve Fit: **AVERAGE RF**

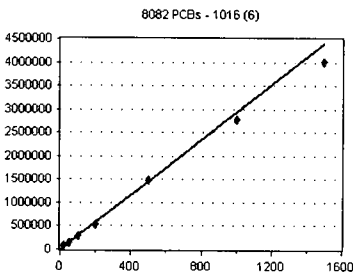


Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	97448	4872.400	6.60
9L03052-CAL2	50	220902	4418.040	6.60
9L03052-CAL3	100	404011	4040.110	6.60
9L03052-CAL4	200	767420	3837.100	6.60
9L03052-CAL5	500	2192154	4384.308	6.60
9L03052-CAL6	1000	3740486	3740.486	6.60
9L03052-CAL7	1500	5651954	3767.969	6.60

**AVE RF** 4151.488      **RF RSD** 10.18      **AVE RT** 6.60

### 1016 (6)

Curve Fit: **AVERAGE RF**

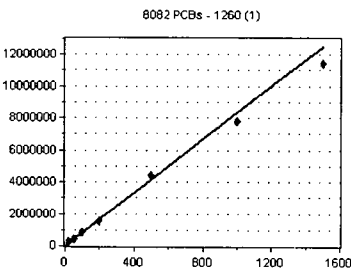


Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	68287	3414.350	6.73
9L03052-CAL2	50	153783	3075.660	6.73
9L03052-CAL3	100	290789	2907.890	6.73
9L03052-CAL4	200	543631	2718.155	6.73
9L03052-CAL5	500	1484483	2968.966	6.73
9L03052-CAL6	1000	2774363	2774.363	6.73
9L03052-CAL7	1500	4009865	2673.243	6.73

**AVE RF** 2933.232      **RF RSD** 8.72      **AVE RT** 6.73

### 1260 (1)

Curve Fit: **AVERAGE RF**

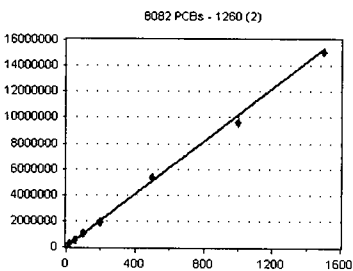


Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	186119	9305.950	7.53
9L03052-CAL2	50	418936	8378.720	7.53
9L03052-CAL3	100	842440	8424.400	7.53
9L03052-CAL4	200	1580165	7900.825	7.53
9L03052-CAL5	500	4423699	8847.398	7.53
9L03052-CAL6	1000	7808345	7808.345	7.53
9L03052-CAL7	1500	144334E+07	7628.894	7.53

**AVE RF** 8327.790      **RF RSD** 7.24      **AVE RT** 7.53

### 1260 (2)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response	
			Factor	RT
9L03052-CAL1	20	225314	11265.700	7.67
9L03052-CAL2	50	506688	10133.760	7.67
9L03052-CAL3	100	1012879	10128.790	7.67
9L03052-CAL4	200	1922759	9613.795	7.67
9L03052-CAL5	500	5325133	10650.270	7.67
9L03052-CAL6	1000	9589273	9589.273	7.67
9L03052-CAL7	1500	505274E+07	10035.160	7.67

**AVE RF** 10202.390      **RF RSD** 5.79      **AVE RT** 7.67

## Element Calibration Review Sheet

Calibration ID: **A9L0407**

Instrument: **DUALECD2F**

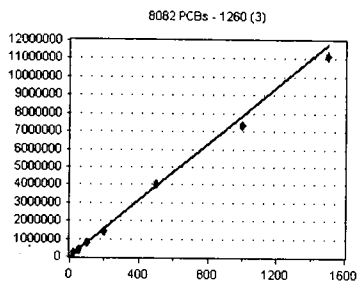
Calibration Date: **12/04/2019**

Analysis: **8082 PCBs**

Instrument Cal ID: **FECD2\_QUANTPCB\_19120**

### 1260 (3)

Curve Fit: **AVERAGE RF**

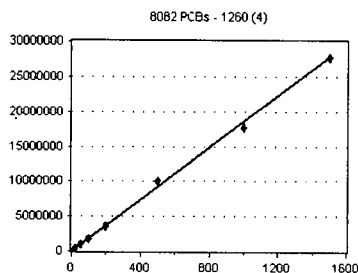


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	178776	8938.800	8.22
9L03052-CAL2	50	402124	8042.480	8.22
9L03052-CAL3	100	802199	8021.990	8.22
9L03052-CAL4	200	1455817	7279.085	8.22
9L03052-CAL5	500	3997829	7995.658	8.22
9L03052-CAL6	1000	7355010	7355.010	8.22
9L03052-CAL7	1500	113463E+07	7423.086	8.22

**AVE RF** 7865.158    **RF RSD** 7.39    **AVE RT** 8.22

### 1260 (4)

Curve Fit: **AVERAGE RF**

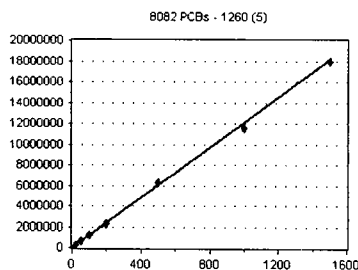


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	374030	18701.500	8.39
9L03052-CAL2	50	944538	18890.760	8.39
9L03052-CAL3	100	1832880	18328.800	8.39
9L03052-CAL4	200	3616251	18081.260	8.39
9L03052-CAL5	500	008925E+07	20178.500	8.39
9L03052-CAL6	1000	.77085E+07	17708.500	8.39
9L03052-CAL7	1500	765995E+07	18439.970	8.39

**AVE RF** 18618.470    **RF RSD** 4.24    **AVE RT** 8.39

### 1260 (5)

Curve Fit: **AVERAGE RF**

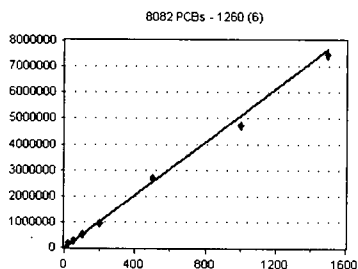


Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	254106	12705.300	8.69
9L03052-CAL2	50	615297	12305.940	8.69
9L03052-CAL3	100	1221637	12216.370	8.69
9L03052-CAL4	200	2271341	11356.710	8.69
9L03052-CAL5	500	6288943	12577.890	8.69
9L03052-CAL6	1000	158015E+07	11580.150	8.69
9L03052-CAL7	1500	789422E+07	11929.480	8.69

**AVE RF** 12095.980    **RF RSD** 4.14    **AVE RT** 8.69

### 1260 (6)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9L03052-CAL1	20	115322	5766.100	9.08
9L03052-CAL2	50	258919	5178.380	9.08
9L03052-CAL3	100	511487	5114.870	9.08
9L03052-CAL4	200	929790	4648.950	9.08
9L03052-CAL5	500	2699039	5398.078	9.08
9L03052-CAL6	1000	4725786	4725.786	9.08
9L03052-CAL7	1500	7455071	4970.047	9.08

**AVE RF** 5114.602    **RF RSD** 7.56    **AVE RT** 9.08

# Element Calibration Review Sheet

Calibration ID: **A9L0407**

Instrument: **DUALECD2F**

Calibration Date: **12/04/2019**

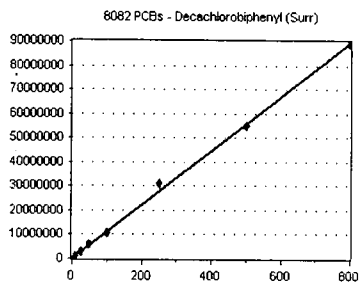
Analysis: **8082 PCBs**

Instrument Cal ID: **FECD2\_QUANTPCB\_19120**

## Decachlorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**

<u>Standard</u>	<u>Concentration</u>	<u>Response</u>	<u>Response Factor</u>	<u>RT</u>
9L03052-CAL1	10	1085395	108539.500	9.58
9L03052-CAL2	25	2699632	107985.300	9.58
9L03052-CAL3	50	5688932	113778.600	9.58
9L03052-CAL4	100	057786E+07	105778.600	9.58
9L03052-CAL5	250	108338E+07	124333.500	9.58
9L03052-CAL6	500	490382E+07	109807.600	9.58
9L03052-CAL7	800	920232E+07	111502.900	9.58



AVE RF    **111675.200**    RF RSD    **5.50**    AVE RT    **9.58**

# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L03052

## 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
9L03052-ICB1	Initial Cal Blank	Water	A19K026		12/3/2019 4:47:00PM
9L03052-CAL1	Cal Standard	Water	A19F250	"	12/3/2019 5:04:00PM
9L03052-CAL2	Cal Standard	Water	A19F251	"	12/3/2019 5:22:00PM
9L03052-CAL3	Cal Standard	Water	A19F252	"	12/3/2019 5:40:00PM
9L03052-CAL4	Cal Standard	Water	A19F253	"	12/3/2019 5:57:00PM
9L03052-CAL5	Cal Standard	Water	A19F247	"	12/3/2019 6:15:00PM
9L03052-CAL6	Cal Standard	Water	A19F248	"	12/3/2019 6:32:00PM
9L03052-CAL7	Cal Standard	Water	A19F249	"	12/3/2019 6:50:00PM
9L03052-ICV1	Initial Cal Check	Water	A19H459	"	12/3/2019 7:25:00PM
9L03052-CAL8	Cal Standard	Water	A19H447	"	12/3/2019 7:43:00PM
9L03052-CAL9	Cal Standard	Water	A19H448	"	12/3/2019 8:01:00PM
9L03052-CALA	Cal Standard	Water	A19H449	"	12/3/2019 8:18:00PM
9L03052-CALB	Cal Standard	Water	A19H450	"	12/3/2019 8:36:00PM
9L03052-CALC	Cal Standard	Water	A19H451	"	12/3/2019 8:53:00PM
9L03052-CALD	Cal Standard	Water	A19H452	"	12/3/2019 9:11:00PM
9L03052-CALE	Cal Standard	Water	A19H453	"	12/3/2019 9:29:00PM
9L03052-ICV2	Initial Cal Check	Water	A19H405	"	12/3/2019 9:46:00PM
9L03052-ICV3	Initial Cal Check	Water	A19J367	"	12/3/2019 10:04:00PM
9L03052-ICV4	Initial Cal Check	Water	A19H406	"	12/3/2019 10:21:00PM
9L03052-ICV5	Initial Cal Check	Water	A19L037	"	12/3/2019 10:39:00PM

## CALIBRATION STANDARD RECOVERIES

Calibration: A9L0407

Instrument: DUALECD2F

1311/8082 TCLP PCBs

Sequence: 9L03052

Matrix: Water

### 9L03052-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	

### 9L03052-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: 9L03052

Aroclor 1016	0.0000	0.00	50.0	0	
Aroclor 1260	0.0000	0.00	50.0	0	
<b>9L03052-CAL3</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
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	
<b>9L03052-CAL4</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
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	
<b>9L03052-CAL5</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
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	
<b>9L03052-CAL6</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
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	
<b>9L03052-CAL7</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
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	
<b>9L03052-CAL8</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Aroclor 1221	0.0000	0.00	500	0	
Aroclor 1221	0.0000	0.00	500	0	
<b>9L03052-CAL9</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Aroclor 1232	0.0000	0.00	500	0	
Aroclor 1232	0.0000	0.00	500	0	
<b>9L03052-CALA</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Aroclor 1242	0.0000	0.00	500	0	
Aroclor 1242	0.0000	0.00	500	0	
<b>9L03052-CALB</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Aroclor 1248	0.0000	0.00	500	0	
Aroclor 1248	0.0000	0.00	500	0	
<b>9L03052-CALC</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Aroclor 1254	0.0000	0.00	500	0	
Aroclor 1254	0.0000	0.00	500	0	



# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9L03052

9L03052-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	
9L03052-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

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: **A9L0407**

Instrument: **DUALECD2F**

8082 PCBs

Sequence: **9L03052**

Matrix: **Water**

9L03052-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	
1260 (6)	20	500	338.20	68	

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\9L03052\  
 Data File : ECD2F002.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 16:47  
 Operator : MJB / KAK  
 Sample : 9L03052-ICB1  
 Misc :   
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:12 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/4/19*  
*Clean*

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.809	6338084	95.184 ng/ml
62) S DCBP (S)	9.578	10758324	96.336 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.730	2193	0.587 ng/ml
3) Aroclor 1016 (2)	6.146	1281	0.178 ng/ml
4) Aroclor 1016 (3)	6.226	1076	0.271 ng/ml
5) Aroclor 1016 (4)	6.380	447	0.125 ng/ml
6) Aroclor 1016 (5)	6.607	951	0.229 ng/ml
7) Aroclor 1016 (6)	6.731	562	0.191 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.162	6620	6.116 ng/ml
10) Aroclor 1221 (2)	5.300	5965	8.313 ng/ml
11) Aroclor 1221 (3)	5.361	4965	2.122 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.371	4826	2.717 ng/ml
14) Aroclor 1232 (2)	6.146	1281	0.461 ng/ml
15) Aroclor 1232 (3)	6.226	1076	0.733 ng/ml
16) Aroclor 1232 (4)	6.380	447	0.392 ng/ml
17) Aroclor 1232 (5)	6.607	951	0.662 ng/ml
18) Aroclor 1232 (6)	6.731	562	0.469 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.730	2193	0.826 ng/ml
21) Aroclor 1242 (2)	6.137	1320	0.255 ng/ml
22) Aroclor 1242 (3)	6.226	1076	0.382 ng/ml
23) Aroclor 1242 (4)	6.380	447	0.195 ng/ml
24) Aroclor 1242 (5)	6.607	951	0.319 ng/ml
25) Aroclor 1242 (6)	6.731	562	0.224 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.130	1280	0.376 ng/ml
28) Aroclor 1248 (2)	6.380	447	0.099 ng/ml
29) Aroclor 1248 (3)	6.598	1020	0.196 ng/ml
30) Aroclor 1248 (4)	6.903	924	0.159 ng/ml
31) Aroclor 1248 (5)	6.933	1036	0.168 ng/ml
32) Aroclor 1248 (6)	7.414	1315	0.385 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.933	1036	0.173 ng/ml
35) Aroclor 1254 (2)	7.027	397	0.054 ng/ml
36) Aroclor 1254 (3)	7.414	1315	0.117 ng/ml
37) Aroclor 1254 (4)	7.581	1251	0.175 ng/ml
38) Aroclor 1254 (5)	7.969	3567	0.466 ng/ml
39) Aroclor 1254 (6)	8.251	439	0.176 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.530	1532	0.184 ng/ml
42) Aroclor 1260 (2)	7.661	810	0.079 ng/ml
43) Aroclor 1260 (3)	8.220	1016	0.129 ng/ml
44) Aroclor 1260 (4)	8.387	4410	0.237 ng/ml
45) Aroclor 1260 (5)	8.693	3008	0.249 ng/ml
46) Aroclor 1260 (6)	9.084	3317	0.648 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F002.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 16:47  
 Operator : MJB / KAK  
 Sample : 9L03052-ICB1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:12 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

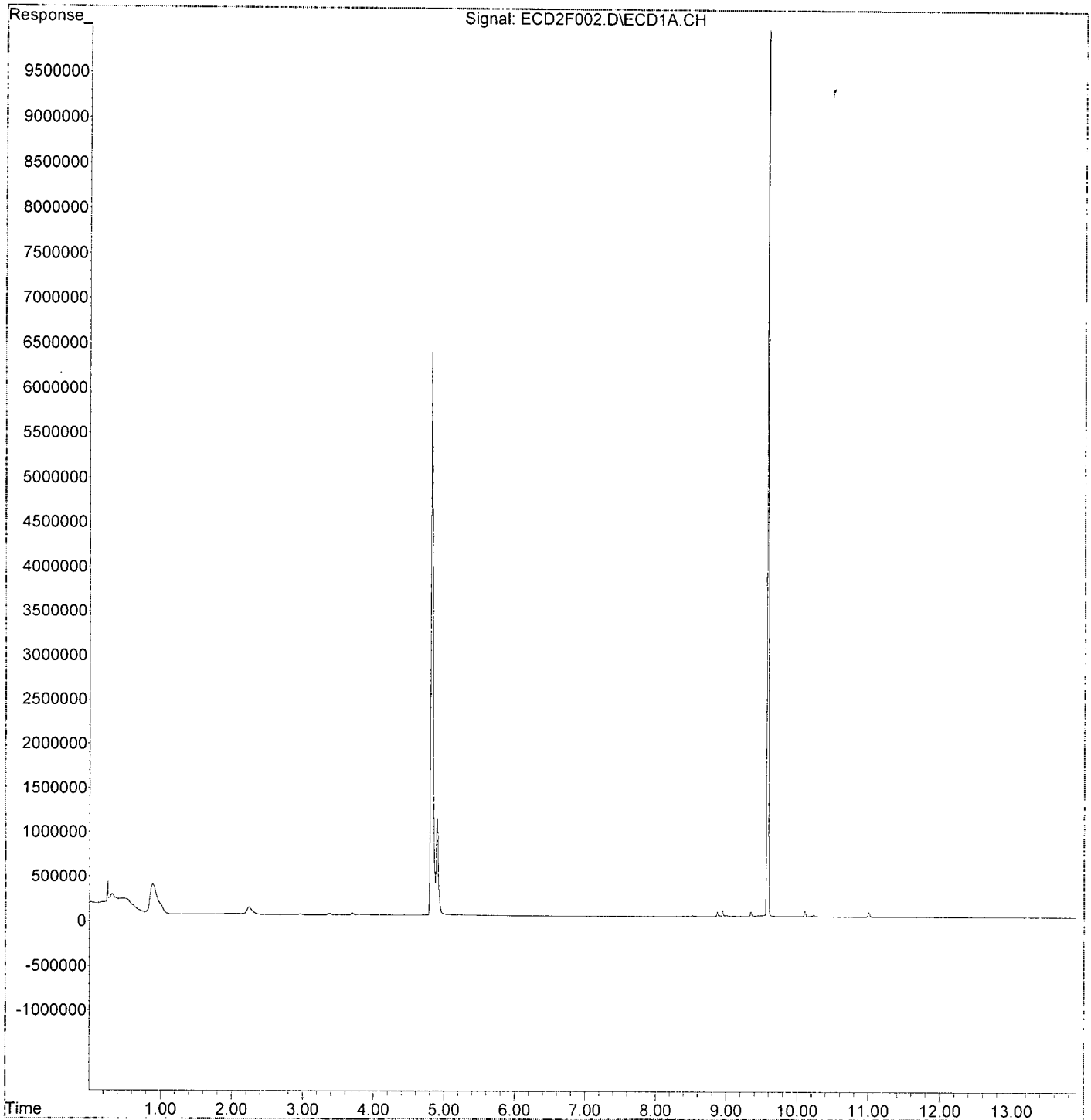
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.661	810	0.101 ng/ml
49) Aroclor 1262 (2)	7.993	631	0.056 ng/ml
50) Aroclor 1262 (3)	8.220	1016	0.105 ng/ml
51) Aroclor 1262 (4)	8.387	4410	0.213 ng/ml
52) Aroclor 1262 (5)	8.693	3008	0.230 ng/ml
53) Aroclor 1262 (6)	9.084	3317	0.497 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.220	1016	0.199 ng/ml
56) Aroclor 1268 (2)	8.643	2303	0.094 ng/ml
57) Aroclor 1268 (3)	8.693	3008	0.147 ng/ml
58) Aroclor 1268 (4)	8.870	57632	3.009 ng/ml
59) Aroclor 1268 (5)	9.078	3271	0.422 ng/ml
60) Aroclor 1268 (6)	9.344	58231	1.114 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\9L03052\  
Data File : ECD2F002.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 16:47  
Operator : MJB / KAK  
Sample : 9L03052-ICB1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:46:12 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F010.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 19:08  
 Operator : MJB / KAK  
 Sample : 9L03052-~~1211~~  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:27 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*Handwritten signature*  
 12/4/19

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.737f	12545	0.188 ng/ml
62) S DCBP (S)	9.577	25002	0.224 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.752	12668	3.389 ng/ml
3) Aroclor 1016 (2)	6.145	16520	2.296 ng/ml
4) Aroclor 1016 (3)	6.237	10133	2.550 ng/ml
5) Aroclor 1016 (4)	6.391	8879	2.482 ng/ml
6) Aroclor 1016 (5)	6.610	12655	3.048 ng/ml
7) Aroclor 1016 (6)	6.735	9348	3.187 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.136	3825	3.533 ng/ml
10) Aroclor 1221 (2)	5.250	9695	13.511 ng/ml
11) Aroclor 1221 (3)	5.363	4759	2.034 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.363	4759	2.679 ng/ml
14) Aroclor 1232 (2)	6.145	16520	5.942 ng/ml
15) Aroclor 1232 (3)	6.237	10133	6.907 ng/ml
16) Aroclor 1232 (4)	6.391	8879	7.793 ng/ml
17) Aroclor 1232 (5)	6.610	12655	8.813 ng/ml
18) Aroclor 1232 (6)	6.735	9348	7.802 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.703	6298	2.371 ng/ml
21) Aroclor 1242 (2)	6.145	16520	3.185 ng/ml
22) Aroclor 1242 (3)	6.211	2588	0.918 ng/ml
23) Aroclor 1242 (4)	6.391	8879	3.879 ng/ml
24) Aroclor 1242 (5)	6.610	12655	4.240 ng/ml
25) Aroclor 1242 (6)	6.735	9348	3.725 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.145	16520	4.854 ng/ml
28) Aroclor 1248 (2)	6.391	8879	1.966 ng/ml
29) Aroclor 1248 (3)	6.610	12655	2.425 ng/ml
30) Aroclor 1248 (4)	6.901	6862	1.182 ng/ml
31) Aroclor 1248 (5)	6.936	6915	1.123 ng/ml
32) Aroclor 1248 (6)	7.418	9012	2.637 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.936	6915	1.153 ng/ml
35) Aroclor 1254 (2)	7.044	8240	1.131 ng/ml
36) Aroclor 1254 (3)	7.418	9012	0.804 ng/ml
37) Aroclor 1254 (4)	7.580	6917	0.970 ng/ml
38) Aroclor 1254 (5)	7.959	19034	2.485 ng/ml
39) Aroclor 1254 (6)	8.250	3740	1.500 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.532	14399	1.729 ng/ml
42) Aroclor 1260 (2)	7.666	25104	2.461 ng/ml
43) Aroclor 1260 (3)	8.222	9877	1.256 ng/ml
44) Aroclor 1260 (4)	8.392	31578	1.696 ng/ml
45) Aroclor 1260 (5)	8.690	20342	1.682 ng/ml
46) Aroclor 1260 (6)	9.082	8134	1.590 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

← MDL

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F010.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 19:08  
 Operator : MJB / KAK  
 Sample : 9L03052-IBL1  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:27 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

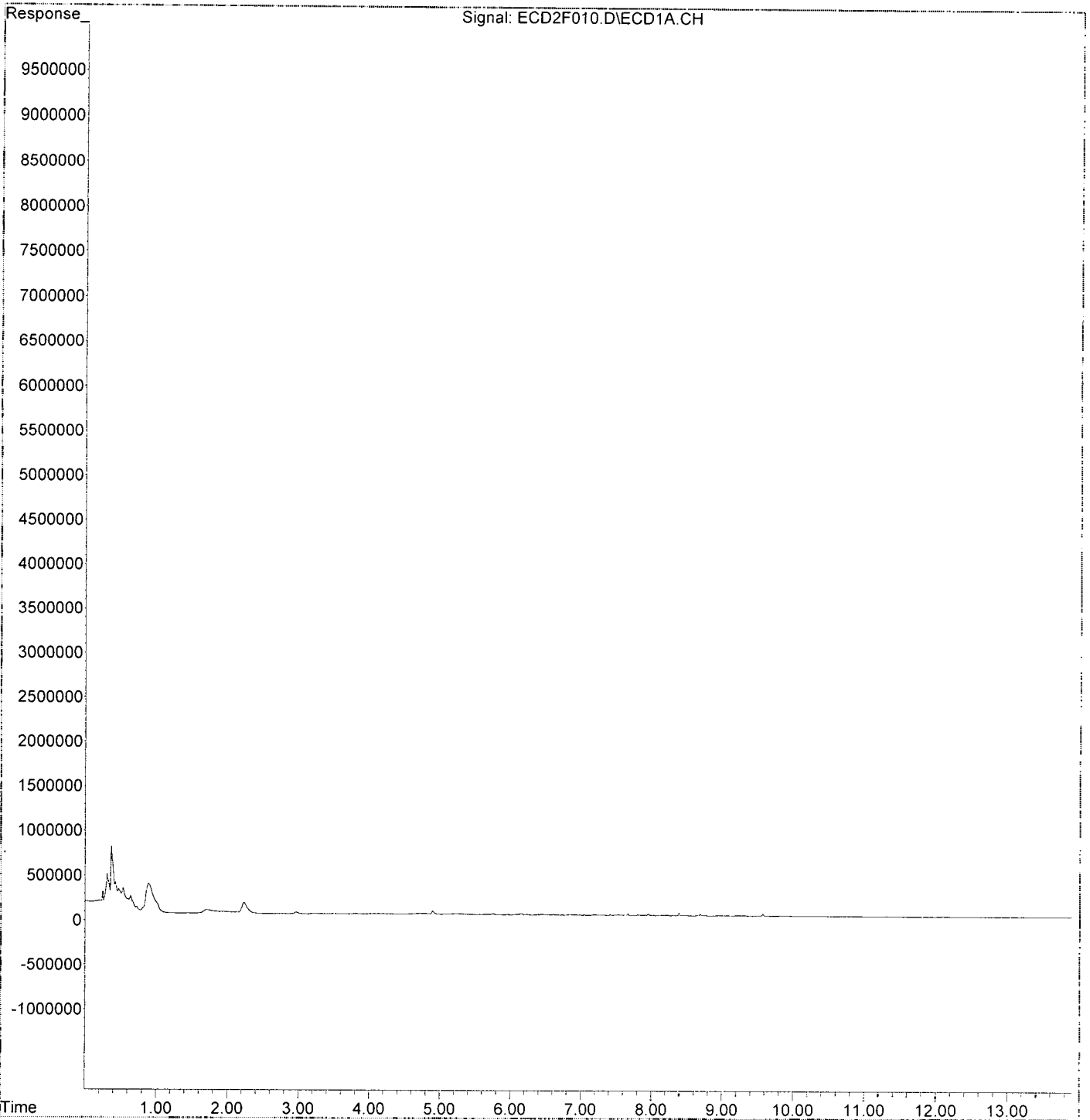
Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.666	25104	3.120 ng/ml
49) Aroclor 1262 (2)	7.989	9638	0.859 ng/ml
50) Aroclor 1262 (3)	8.222	9877	1.018 ng/ml
51) Aroclor 1262 (4)	8.392	31578	1.528 ng/ml
52) Aroclor 1262 (5)	8.690	20342	1.555 ng/ml
53) Aroclor 1262 (6)	9.082	8134	1.218 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.222	9877	1.935 ng/ml
56) Aroclor 1268 (2)	8.639	4889	0.199 ng/ml
57) Aroclor 1268 (3)	8.690	20342	0.996 ng/ml
58) Aroclor 1268 (4)	8.872	2484	0.130 ng/ml
59) Aroclor 1268 (5)	9.082	8134	1.050 ng/ml
60) Aroclor 1268 (6)	9.341	4085	0.078 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\9L03052\  
Data File : ECD2F010.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 19:08  
Operator : MJB / KAK  
Sample : 9L03052-IBL1  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:46:27 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F011.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 19:25  
 Operator : MJB / KAK  
 Sample : 9L03052-TCM~~1~~  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:41 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/4/19*  
*1016, 1260*

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	4.809	11420854	171.516	ng/ml
62) S DCBP (S)	9.577	20581453	184.298	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	5.729	1584967	424.020	ng/ml
3) Aroclor 1016 (2)	6.143	3295907	458.153	ng/ml
4) Aroclor 1016 (3)	6.224	1748585	440.125	ng/ml
5) Aroclor 1016 (4)	6.381	1506724	421.184	ng/ml
6) Aroclor 1016 (5)	6.604	1802153	434.098	ng/ml
7) Aroclor 1016 (6)	6.730	1256017	428.203	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.167	154121	142.384	ng/ml
10) Aroclor 1221 (2)	5.287	169658	236.435	ng/ml
11) Aroclor 1221 (3)	5.367	741426	316.834	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.367	741426	417.429	ng/ml
14) Aroclor 1232 (2)	6.143	3295907	1185.500	ng/ml
15) Aroclor 1232 (3)	6.224	1748585	1191.994	ng/ml
16) Aroclor 1232 (4)	6.381	1506724	1322.425	ng/ml
17) Aroclor 1232 (5)	6.604	1802153	1254.999	ng/ml
18) Aroclor 1232 (6)	6.730	1256017	1048.322	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.729	1584967	596.744	ng/ml
21) Aroclor 1242 (2)	6.143	3295907	635.407	ng/ml
22) Aroclor 1242 (3)	6.224	1748585	620.028	ng/ml
23) Aroclor 1242 (4)	6.381	1506724	658.194	ng/ml
24) Aroclor 1242 (5)	6.604	1802153	603.796	ng/ml
25) Aroclor 1242 (6)	6.730	1256017	500.560	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.143	3295907	968.446	ng/ml
28) Aroclor 1248 (2)	6.381	1506724	333.699	ng/ml
29) Aroclor 1248 (3)	6.604	1802153	345.316	ng/ml
30) Aroclor 1248 (4)	6.898	306212	52.748	ng/ml
31) Aroclor 1248 (5)	6.931	1452015	235.743	ng/ml
32) Aroclor 1248 (6)	7.419	3020035	883.719	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.931	1452015	242.078	ng/ml
35) Aroclor 1254 (2)	7.042	1517384	208.215	ng/ml
36) Aroclor 1254 (3)	7.419	3020035	269.406	ng/ml
37) Aroclor 1254 (4)	7.578	308753	43.303	ng/ml
38) Aroclor 1254 (5)	7.959	4100152	535.339	ng/ml
39) Aroclor 1254 (6)	8.251	442599	177.474	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.531	4033365	484.326	ng/ml
42) Aroclor 1260 (2)	7.665	4859368	476.297	ng/ml
43) Aroclor 1260 (3)	8.221	3358472	427.006	ng/ml
44) Aroclor 1260 (4)	8.391	7851638	421.712	ng/ml
45) Aroclor 1260 (5)	8.691	5184287	428.596	ng/ml
46) Aroclor 1260 (6)	9.082	1729763	338.201	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

*43A.297*

*429.356*



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F011.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 19:25  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV1  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:41 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

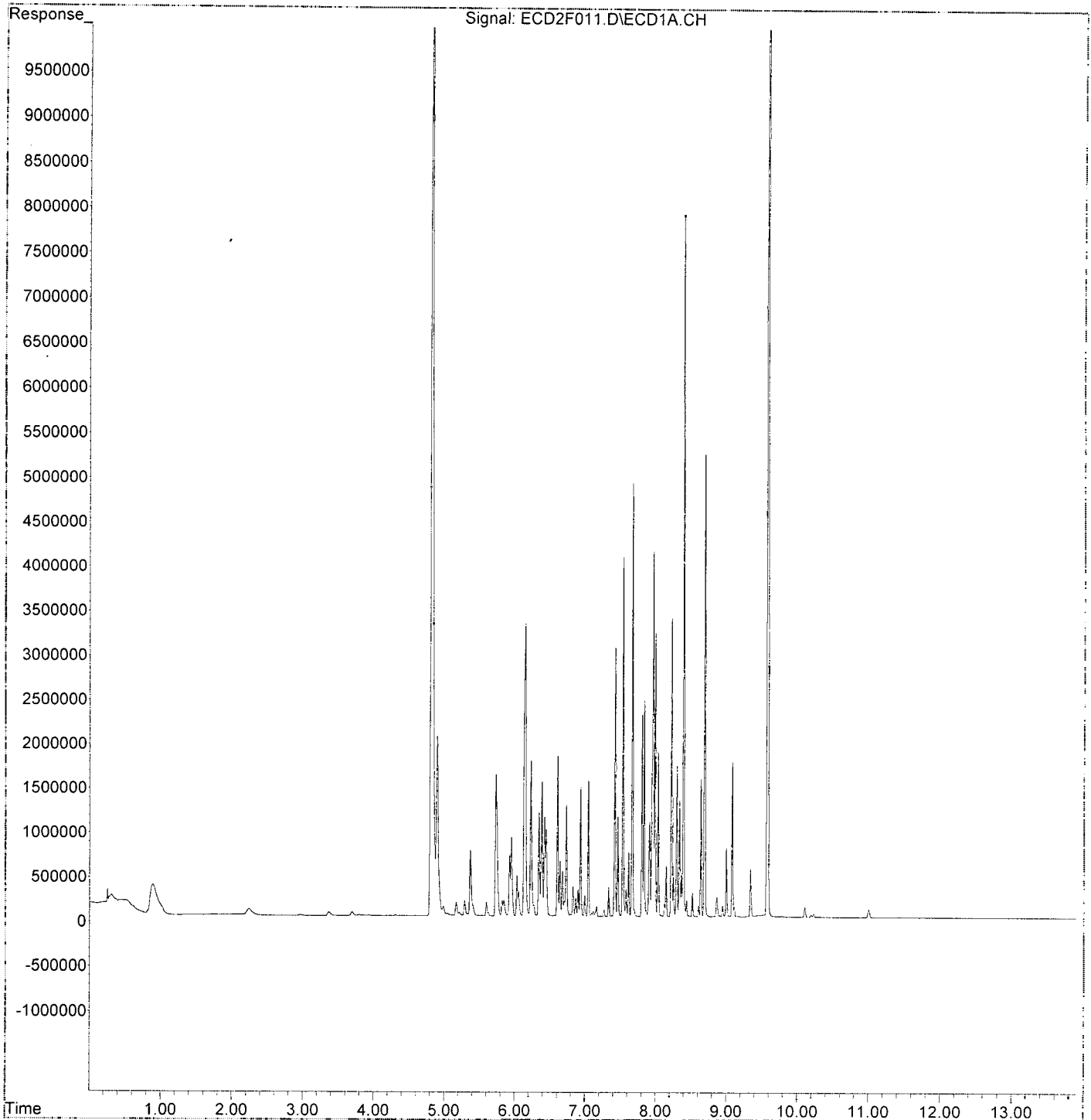
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.665	4859368	603.917	ng/ml
49) Aroclor 1262 (2)	7.989	3182035	283.476	ng/ml
50) Aroclor 1262 (3)	8.221	3358472	346.058	ng/ml
51) Aroclor 1262 (4)	8.391	7851638	380.039	ng/ml
52) Aroclor 1262 (5)	8.691	5184287	396.281	ng/ml
53) Aroclor 1262 (6)	9.082	1729763	259.077	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.221	3358472	657.977	ng/ml
56) Aroclor 1268 (2)	8.638	1542082	62.876	ng/ml
57) Aroclor 1268 (3)	8.691	5184287	253.955	ng/ml
58) Aroclor 1268 (4)	8.865	214550	11.202	ng/ml
59) Aroclor 1268 (5)	9.082	1729763	223.203	ng/ml
60) Aroclor 1268 (6)	9.340	542704	10.380	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\9L03052\  
Data File : ECD2F011.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 19:25  
Operator : MJB / KAK  
Sample : 9L03052-ICV1  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:46:41 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F019.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 21:46  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV2  
 Misc :   
 ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:57 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/14/19*  
*1221, 1254*

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.806	2523842	37.902 ng/ml
62) S DCBP (S)	9.576	9098738	81.475 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.729	408626	109.318 ng/ml
3) Aroclor 1016 (2)	6.141	518754	72.110 ng/ml
4) Aroclor 1016 (3)	6.224	315790	79.485 ng/ml
5) Aroclor 1016 (4)	6.381	1796683	502.238 ng/ml
6) Aroclor 1016 (5)	6.602	1114869	268.547 ng/ml
7) Aroclor 1016 (6)	6.729	509980	173.863 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.165	999048	922.965 ng/ml
10) Aroclor 1221 (2)	5.284	659283	918.773 ng/ml
11) Aroclor 1221 (3)	5.366	2169002	926.879 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.366	2169002	1221.167 ng/ml
14) Aroclor 1232 (2)	6.141	518754	186.590 ng/ml
15) Aroclor 1232 (3)	6.224	315790	215.271 ng/ml
16) Aroclor 1232 (4)	6.381	1796683	1576.916 ng/ml
17) Aroclor 1232 (5)	6.602	1114869	776.382 ng/ml
18) Aroclor 1232 (6)	6.729	509980	425.650 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.729	408626	153.849 ng/ml
21) Aroclor 1242 (2)	6.141	518754	100.009 ng/ml
22) Aroclor 1242 (3)	6.224	315790	111.975 ng/ml
23) Aroclor 1242 (4)	6.381	1796683	784.858 ng/ml
24) Aroclor 1242 (5)	6.602	1114869	373.527 ng/ml
25) Aroclor 1242 (6)	6.729	509980	203.242 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.141	518754	152.427 ng/ml
28) Aroclor 1248 (2)	6.381	1796683	397.917 ng/ml
29) Aroclor 1248 (3)	6.602	1114869	213.623 ng/ml
30) Aroclor 1248 (4)	6.897	1645230	283.409 ng/ml
31) Aroclor 1248 (5)	6.930	3291877	534.456 ng/ml
32) Aroclor 1248 (6)	7.412	5438265	1591.338 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.930	3291877	548.818 ng/ml
35) Aroclor 1254 (2)	7.040	3724068	511.017 ng/ml
36) Aroclor 1254 (3)	7.412	5438265	485.127 ng/ml
37) Aroclor 1254 (4)	7.577	3641186	510.683 ng/ml
38) Aroclor 1254 (5)	7.958	3764966	491.575 ng/ml
39) Aroclor 1254 (6)	8.249	1229847	493.144 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.531	2171772	260.786 ng/ml
42) Aroclor 1260 (2)	7.664	2434418	238.612 ng/ml
43) Aroclor 1260 (3)	8.220	352887	44.867 ng/ml
44) Aroclor 1260 (4)	8.390	825894	44.359 ng/ml
45) Aroclor 1260 (5)	8.689	707191	58.465 ng/ml
46) Aroclor 1260 (6)	9.080	59626	11.658 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*922.872*

*506.727*

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F019.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 21:46  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV2  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:46:57 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

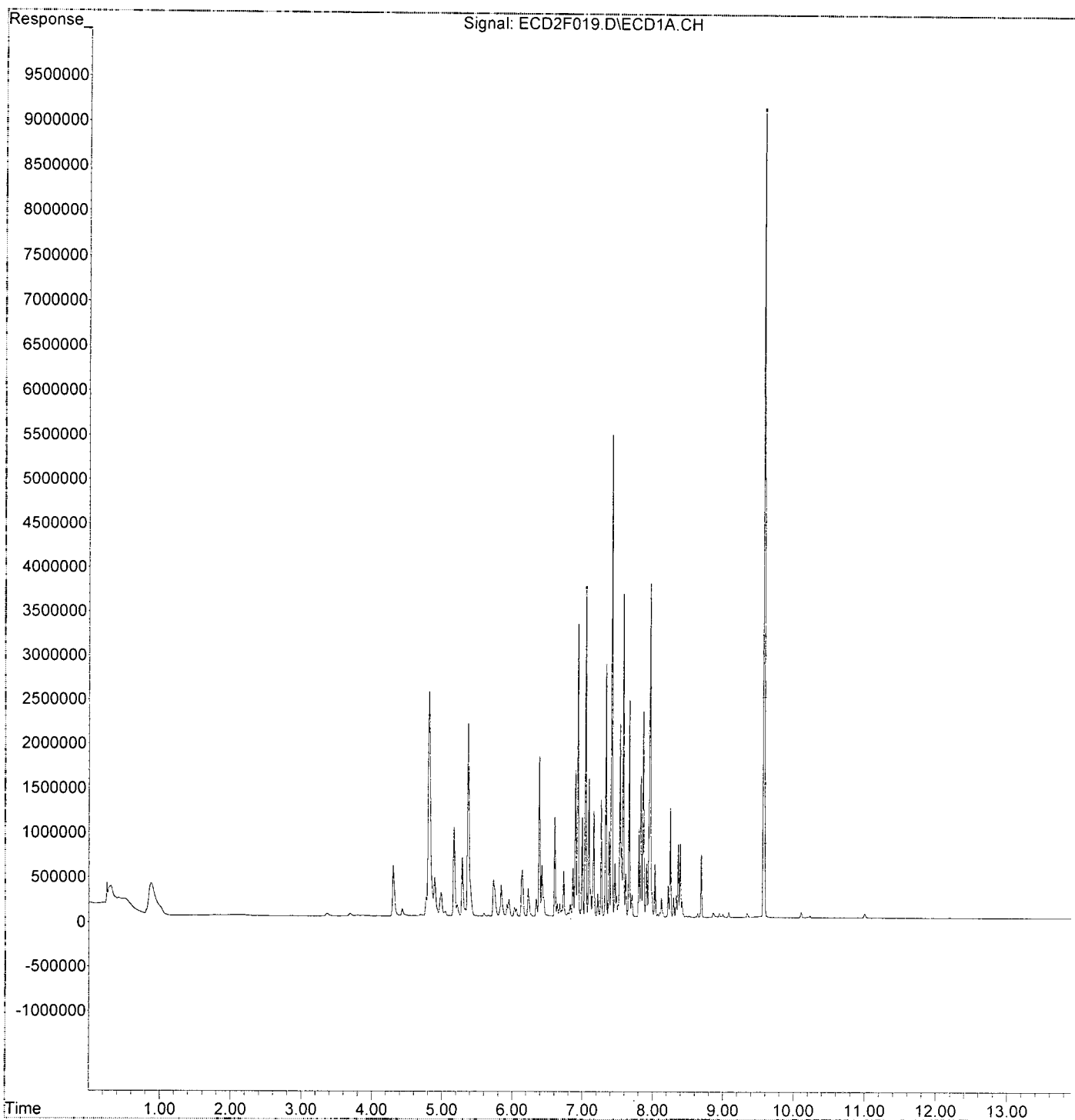
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	7.664	2434418	302.547	ng/ml
49) Aroclor 1262 (2)	7.986	283402	25.247	ng/ml
50) Aroclor 1262 (3)	8.220	352887	36.362	ng/ml
51) Aroclor 1262 (4)	8.390	825894	39.975	ng/ml
52) Aroclor 1262 (5)	8.689	707191	54.057	ng/ml
53) Aroclor 1262 (6)	9.080	59626	8.931	ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D.	ng/ml
55) Aroclor 1268 (1)	8.220	352887	69.136	ng/ml
56) Aroclor 1268 (2)	8.637	48189	1.965	ng/ml
57) Aroclor 1268 (3)	8.689	707191	34.642	ng/ml
58) Aroclor 1268 (4)	8.859	50067	2.614	ng/ml
59) Aroclor 1268 (5)	9.080	59626	7.694	ng/ml
60) Aroclor 1268 (6)	9.340	48854	0.934	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\9L03052\  
Data File : ECD2F019.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 21:46  
Operator : MJB / KAK  
Sample : 9L03052-ICV2  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:46:57 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F020.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 22:04  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV3  
 Misc :   
 ALS Vial : 19 Sample Multiplier: 1

*12/14/19*  
*1232, 1262*

Integration File: PCB1.e  
 Quant Time: Dec 04 15:47:09 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.807	2529050	37.981 ng/ml
62) S DCBP (S)	9.577	9324205	83.494 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.728	780192	208.722 ng/ml
3) Aroclor 1016 (2)	6.140	1503421	208.985 ng/ml
4) Aroclor 1016 (3)	6.224	809480	203.749 ng/ml
5) Aroclor 1016 (4)	6.381	633249	177.016 ng/ml
6) Aroclor 1016 (5)	6.603	781085	188.146 ng/ml
7) Aroclor 1016 (6)	6.729	644810	219.830 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.165	352683	325.824 ng/ml
10) Aroclor 1221 (2)	5.284	262348	365.607 ng/ml
11) Aroclor 1221 (3)	5.366	914140	390.639 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.366	914140	514.669 ng/ml
14) Aroclor 1232 (2)	6.140	1503421	540.763 ng/ml
15) Aroclor 1232 (3)	6.224	809480	551.815 ng/ml
16) Aroclor 1232 (4)	6.381	633249	555.792 ng/ml
17) Aroclor 1232 (5)	6.603	781085	543.939 ng/ml
18) Aroclor 1232 (6)	6.729	644810	538.185 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.728	780192	293.744 ng/ml
21) Aroclor 1242 (2)	6.140	1503421	289.839 ng/ml
22) Aroclor 1242 (3)	6.224	809480	287.032 ng/ml
23) Aroclor 1242 (4)	6.381	633249	276.627 ng/ml
24) Aroclor 1242 (5)	6.603	781085	261.696 ng/ml
25) Aroclor 1242 (6)	6.729	644810	256.976 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.140	1503421	441.755 ng/ml
28) Aroclor 1248 (2)	6.381	633249	140.248 ng/ml
29) Aroclor 1248 (3)	6.603	781085	149.666 ng/ml
30) Aroclor 1248 (4)	6.897	807432	139.089 ng/ml
31) Aroclor 1248 (5)	6.934	1110368	180.275 ng/ml
32) Aroclor 1248 (6)	7.419	2767318	809.769 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.934	1110368	185.119 ng/ml
35) Aroclor 1254 (2)	7.041	720967	98.931 ng/ml
36) Aroclor 1254 (3)	7.419	2767318	246.862 ng/ml
37) Aroclor 1254 (4)	7.579	293242	41.128 ng/ml
38) Aroclor 1254 (5)	7.959	1932670	252.340 ng/ml
39) Aroclor 1254 (6)	8.251	135955	54.515 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.531	3315864	398.168 ng/ml
42) Aroclor 1260 (2)	7.665	3967208	388.851 ng/ml
43) Aroclor 1260 (3)	8.220	4669824	593.736 ng/ml
44) Aroclor 1260 (4)	8.391	10490038	563.421 ng/ml
45) Aroclor 1260 (5)	8.689	6158136	509.106 ng/ml
46) Aroclor 1260 (6)	9.081	3347737	654.545 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*540.861*

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F020.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 22:04  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV3  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:47:09 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.665	3967208	493.041 ng/ml
49) Aroclor 1262 (2)	7.988	5589920	497.985 ng/ml
50) Aroclor 1262 (3)	8.220	4669824	481.180 ng/ml
51) Aroclor 1262 (4)	8.391	10490038	507.744 ng/ml
52) Aroclor 1262 (5)	8.689	6158136	470.720 ng/ml
53) Aroclor 1262 (6)	9.081	3347737	501.411 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.220	4669824	914.892 ng/ml
56) Aroclor 1268 (2)	8.638	3952358	161.152 ng/ml
57) Aroclor 1268 (3)	8.689	6158136	301.660 ng/ml
58) Aroclor 1268 (4)	8.867	311895	16.284 ng/ml
59) Aroclor 1268 (5)	9.081	3347737	431.981 ng/ml
60) Aroclor 1268 (6)	9.340	1087897	20.808 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

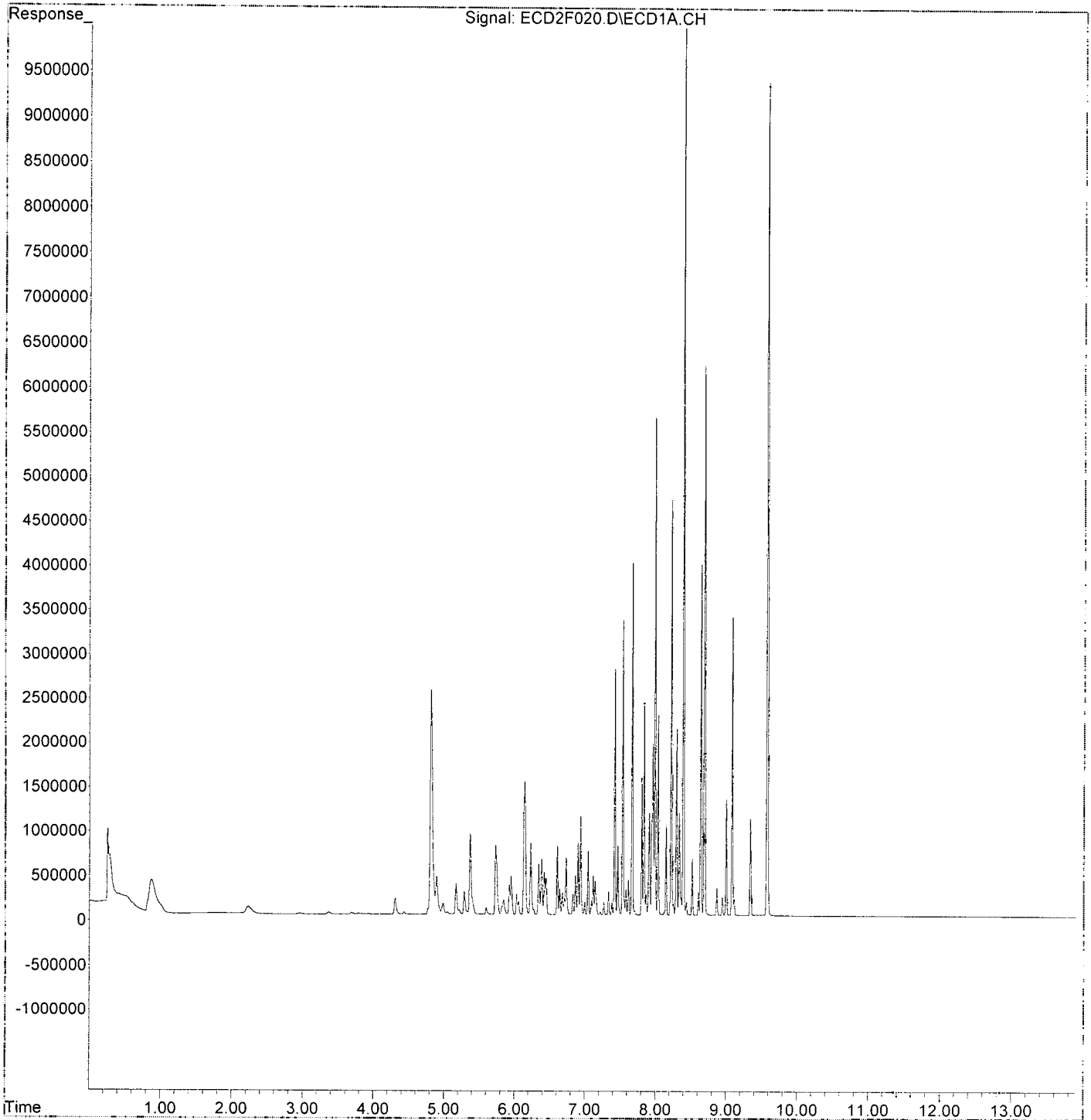
492.01A

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\9L03052\  
Data File : ECD2F020.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 22:04  
Operator : MJB / KAK  
Sample : 9L03052-ICV3  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:47:09 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F021.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 22:21  
 Operator : MJB / KAK  
 Sample : 9L03052-~~TCV4~~  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:47:22 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/11/19*  
*1242, 1268*

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) S TCMX (S)	4.809	2665860	40.035	ng/ml
62) S DCBP (S)	9.576	4442909	39.784	ng/ml
Target Compounds				
2) Aroclor 1016 (1)	5.728	1382752	369.922	ng/ml
3) Aroclor 1016 (2)	6.141	2750450	382.331	ng/ml
4) Aroclor 1016 (3)	6.223	1465507	368.873	ng/ml
5) Aroclor 1016 (4)	6.380	1228739	343.477	ng/ml
6) Aroclor 1016 (5)	6.603	1520400	366.230	ng/ml
7) Aroclor 1016 (6)	6.729	1310155	446.660	ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D.	ng/ml
9) Aroclor 1221 (1)	5.167	142252	131.419	ng/ml
10) Aroclor 1221 (2)	5.284	157140	218.989	ng/ml
11) Aroclor 1221 (3)	5.366	700121	299.183	ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D.	ng/ml
13) Aroclor 1232 (1)	5.366	700121	394.174	ng/ml
14) Aroclor 1232 (2)	6.141	2750450	989.305	ng/ml
15) Aroclor 1232 (3)	6.223	1465507	999.022	ng/ml
16) Aroclor 1232 (4)	6.380	1228739	1078.442	ng/ml
17) Aroclor 1232 (5)	6.603	1520400	1058.790	ng/ml
18) Aroclor 1232 (6)	6.729	1310155	1093.508	ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D.	ng/ml
20) Aroclor 1242 (1)	5.728	1382752	520.609	ng/ml
21) Aroclor 1242 (2)	6.141	2750450	530.250	ng/ml
22) Aroclor 1242 (3)	6.223	1465507	519.652	ng/ml
23) Aroclor 1242 (4)	6.380	1228739	536.759	ng/ml
24) Aroclor 1242 (5)	6.603	1520400	509.397	ng/ml
25) Aroclor 1242 (6)	6.729	1310155	522.136	ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D.	ng/ml
27) Aroclor 1248 (1)	6.141	2750450	808.173	ng/ml
28) Aroclor 1248 (2)	6.380	1228739	272.133	ng/ml
29) Aroclor 1248 (3)	6.603	1520400	291.328	ng/ml
30) Aroclor 1248 (4)	6.896	1550785	267.140	ng/ml
31) Aroclor 1248 (5)	6.935	1647945	267.554	ng/ml
32) Aroclor 1248 (6)	7.411	529842	155.042	ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D.	ng/ml
34) Aroclor 1254 (1)	6.935	1647945	274.744	ng/ml
35) Aroclor 1254 (2)	7.040	376012	51.596	ng/ml
36) Aroclor 1254 (3)	7.411	529842	47.265	ng/ml
37) Aroclor 1254 (4)	7.577	374880	52.578	ng/ml
38) Aroclor 1254 (5)	7.959	74111	9.676	ng/ml
39) Aroclor 1254 (6)	8.249	38994	15.636	ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D.	ng/ml
41) Aroclor 1260 (1)	7.552	195683	23.498	ng/ml
42) Aroclor 1260 (2)	7.664	79308	7.773	ng/ml
43) Aroclor 1260 (3)	8.212	2553339	324.639	ng/ml
44) Aroclor 1260 (4)	8.390	1205764	64.762	ng/ml
45) Aroclor 1260 (5)	8.685	10212114	844.257	ng/ml
46) Aroclor 1260 (6)	9.081	3853280	753.388	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

*523.13A*

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F021.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 22:21  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV4  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:47:22 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.664	79308	9.856 ng/ml
49) Aroclor 1262 (2)	7.988	2099746	187.059 ng/ml
50) Aroclor 1262 (3)	8.212	2553339	263.097 ng/ml
51) Aroclor 1262 (4)	8.390	1205764	58.362 ng/ml
52) Aroclor 1262 (5)	8.685	10212114	780.602 ng/ml
53) Aroclor 1262 (6)	9.081	3853280	577.129 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.212	2553339	500.239 ng/ml
56) Aroclor 1268 (2)	8.638	11416672	465.499 ng/ml
57) Aroclor 1268 (3)	8.685	10212114	500.246 ng/ml
58) Aroclor 1268 (4)	8.868	9250966	482.994 ng/ml
59) Aroclor 1268 (5)	9.081	3853280	497.214 ng/ml
60) Aroclor 1268 (6)	9.341	25949592	496.325 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

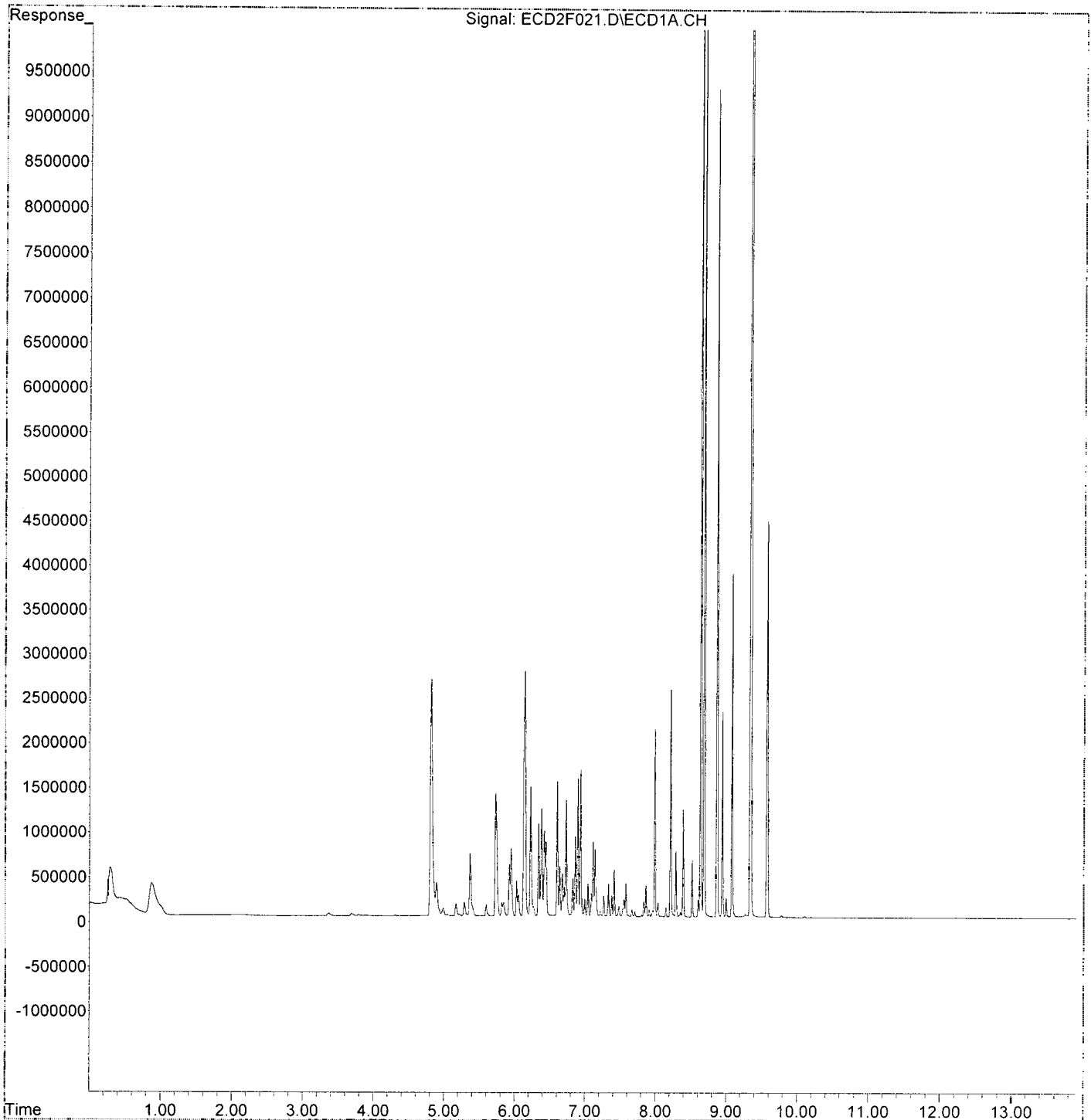
490.420

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : K:\DATA\9L03052\  
Data File : ECD2F021.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 22:21  
Operator : MJB / KAK  
Sample : 9L03052-ICV4  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:47:22 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F022.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 22:39  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV5  
 Misc :   
 ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:47:36 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*12/11/19*  
*1248*

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S TCMX (S)	4.807	3885	0.058 ng/ml
62) S DCBP (S)	9.575	9875	0.088 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.728	773412	206.908 ng/ml
3) Aroclor 1016 (2)	6.141	1727133	240.083 ng/ml
4) Aroclor 1016 (3)	6.223	962046	242.150 ng/ml
5) Aroclor 1016 (4)	6.381	2489269	695.841 ng/ml
6) Aroclor 1016 (5)	6.603	2879322	693.564 ng/ml
7) Aroclor 1016 (6)	6.729	2195827	748.604 ng/ml
8) Aroclor 1016 - AVE	0.000	0	N.D. ng/ml
9) Aroclor 1221 (1)	5.166	16969	15.677 ng/ml
10) Aroclor 1221 (2)	5.287	19525	27.211 ng/ml
11) Aroclor 1221 (3)	5.367	88672	37.892 ng/ml
12) Aroclor 1221 - AVE	0.000	0	N.D. ng/ml
13) Aroclor 1232 (1)	5.367	88672	49.923 ng/ml
14) Aroclor 1232 (2)	6.141	1727133	621.230 ng/ml
15) Aroclor 1232 (3)	6.223	962046	655.818 ng/ml
16) Aroclor 1232 (4)	6.381	2489269	2184.787 ng/ml
17) Aroclor 1232 (5)	6.603	2879322	2005.127 ng/ml
18) Aroclor 1232 (6)	6.729	2195827	1832.725 ng/ml
19) Aroclor 1232 - AVE	0.000	0	N.D. ng/ml
20) Aroclor 1242 (1)	5.728	773412	291.192 ng/ml
21) Aroclor 1242 (2)	6.141	1727133	332.968 ng/ml
22) Aroclor 1242 (3)	6.223	962046	341.130 ng/ml
23) Aroclor 1242 (4)	6.381	2489269	1087.406 ng/ml
24) Aroclor 1242 (5)	6.603	2879322	964.692 ng/ml
25) Aroclor 1242 (6)	6.729	2195827	875.103 ng/ml
26) Aroclor 1242 - AVE	0.000	0	N.D. ng/ml
27) Aroclor 1248 (1)	6.130	1712166	503.091 ng/ml
28) Aroclor 1248 (2)	6.381	2489269	551.307 ng/ml
29) Aroclor 1248 (3)	6.603	2879322	551.715 ng/ml
30) Aroclor 1248 (4)	6.897	3307894	569.822 ng/ml
31) Aroclor 1248 (5)	6.934	3316675	538.482 ng/ml
32) Aroclor 1248 (6)	7.411	1869117	546.939 ng/ml
33) Aroclor 1248 - AVE	0.000	0	N.D. ng/ml
34) Aroclor 1254 (1)	6.934	3316675	552.953 ng/ml
35) Aroclor 1254 (2)	7.041	1195032	163.982 ng/ml
36) Aroclor 1254 (3)	7.411	1869117	166.737 ng/ml
37) Aroclor 1254 (4)	7.578	1323324	185.599 ng/ml
38) Aroclor 1254 (5)	7.958	294269	38.421 ng/ml
39) Aroclor 1254 (6)	8.251	119096	47.755 ng/ml
40) Aroclor 1254 - AVE	0.000	0	N.D. ng/ml
41) Aroclor 1260 (1)	7.535	286492	34.402 ng/ml
42) Aroclor 1260 (2)	7.663	187599	18.388 ng/ml
43) Aroclor 1260 (3)	8.220	32805	4.171 ng/ml
44) Aroclor 1260 (4)	8.391	78085	4.194 ng/ml
45) Aroclor 1260 (5)	8.690	62566	5.172 ng/ml
46) Aroclor 1260 (6)	9.080	20052	3.921 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*543.589*

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F022.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 22:39  
 Operator : MJB / KAK  
 Sample : 9L03052-ICV5  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:47:36 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.663	187599	23.315 ng/ml
49) Aroclor 1262 (2)	7.988	36173	3.223 ng/ml
50) Aroclor 1262 (3)	8.220	32805	3.380 ng/ml
51) Aroclor 1262 (4)	8.391	78085	3.779 ng/ml
52) Aroclor 1262 (5)	8.690	62566	4.782 ng/ml
53) Aroclor 1262 (6)	9.080	20052	3.003 ng/ml
54) Aroclor 1262 - AVE	0.000	0	N.D. ng/ml
55) Aroclor 1268 (1)	8.220	32805	6.427 ng/ml
56) Aroclor 1268 (2)	8.638	20328	0.829 ng/ml
57) Aroclor 1268 (3)	8.690	62566	3.065 ng/ml
58) Aroclor 1268 (4)	8.865	4340	0.227 ng/ml
59) Aroclor 1268 (5)	9.080	20052	2.587 ng/ml
60) Aroclor 1268 (6)	9.340	13546	0.259 ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D. ng/ml

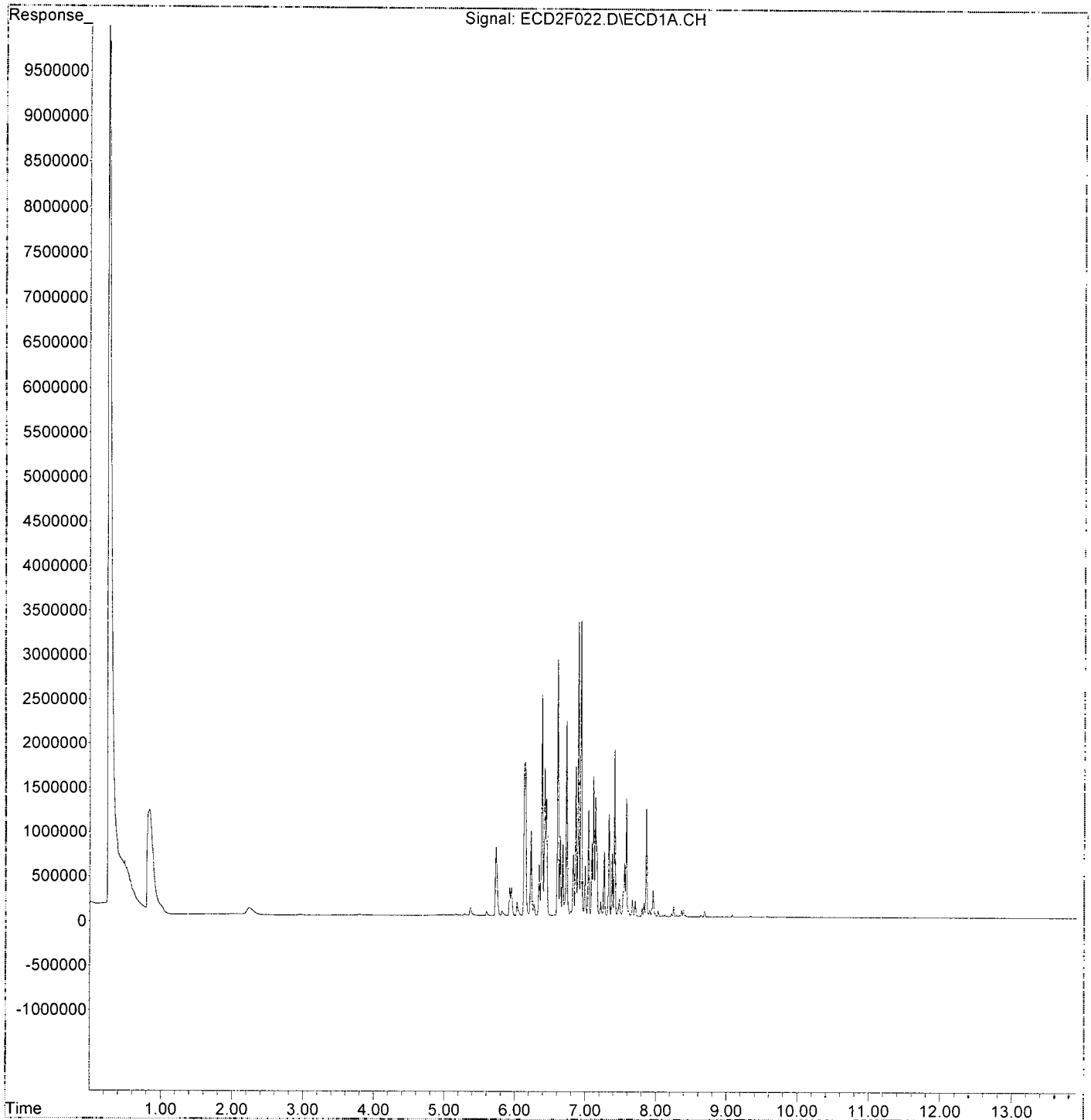
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F022.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 22:39  
Operator : MJB / KAK  
Sample : 9L03052-ICV5  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:47:36 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:04  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:32:40 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.810	607866	9.129 ng/ml
62) S DCBP (S)	9.578	1085395	9.719 ng/ml ✓
Target Compounds			
2) Aroclor 1016 (1)	5.730	89904	24.052 ng/ml
3) Aroclor 1016 (2)	6.144	161114	22.396 ng/ml
4) Aroclor 1016 (3)	6.226	94866	23.878 ng/ml
5) Aroclor 1016 (4)	6.382	87352	24.418 ng/ml
6) Aroclor 1016 (5)	6.604	97448	23.473 ng/ml
7) Aroclor 1016 (6)	6.731	68287	23.280 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)	7.532	186119	22.349 ng/ml
42) Aroclor 1260 (2)	7.665	225314	22.084 ng/ml
43) Aroclor 1260 (3)	8.222	178776	22.730 ng/ml
44) Aroclor 1260 (4)	8.392	374030	20.089 ng/ml
45) Aroclor 1260 (5)	8.690	254106	21.007 ng/ml
46) Aroclor 1260 (6)	9.082	115322	22.548 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*MJB*  
12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:04  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:32:40 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 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

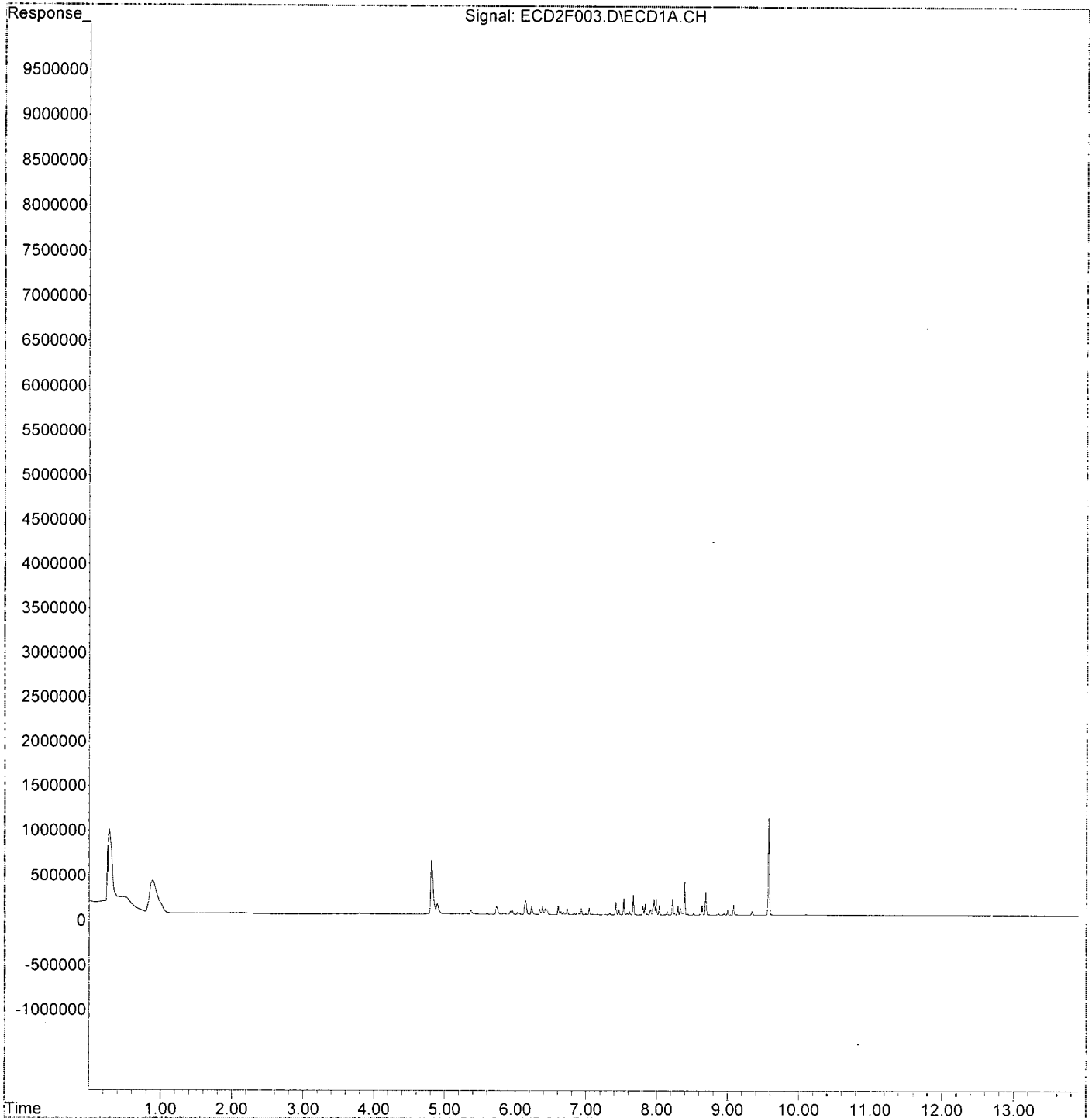
(m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
Data File : ECD2F003.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:04  
Operator : MJB / KAK  
Sample : 9L03052-CAL1  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:32:40 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:22  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:32:58 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.809	1520231	22.830 ng/ml ✓
62) S DCBP (S)	9.576	2699632	24.174 ng/ml ✓
Target Compounds			
2) Aroclor 1016 (1)	5.729	193429	51.747 ng/ml
3) Aroclor 1016 (2)	6.143	352080	48.941 ng/ml
4) Aroclor 1016 (3)	6.225	199490	50.212 ng/ml
5) Aroclor 1016 (4)	6.381	190893	53.362 ng/ml
6) Aroclor 1016 (5)	6.604	220902	53.210 ng/ml
7) Aroclor 1016 (6)	6.731	153783	52.428 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)	7.531	418936	50.306 ng/ml
42) Aroclor 1260 (2)	7.665	506688	49.664 ng/ml
43) Aroclor 1260 (3)	8.221	402124	51.127 ng/ml
44) Aroclor 1260 (4)	8.390	944538	50.731 ng/ml
45) Aroclor 1260 (5)	8.690	615297	50.868 ng/ml
46) Aroclor 1260 (6)	9.081	258919	50.623 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*12/4/19*

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:22  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:32:58 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

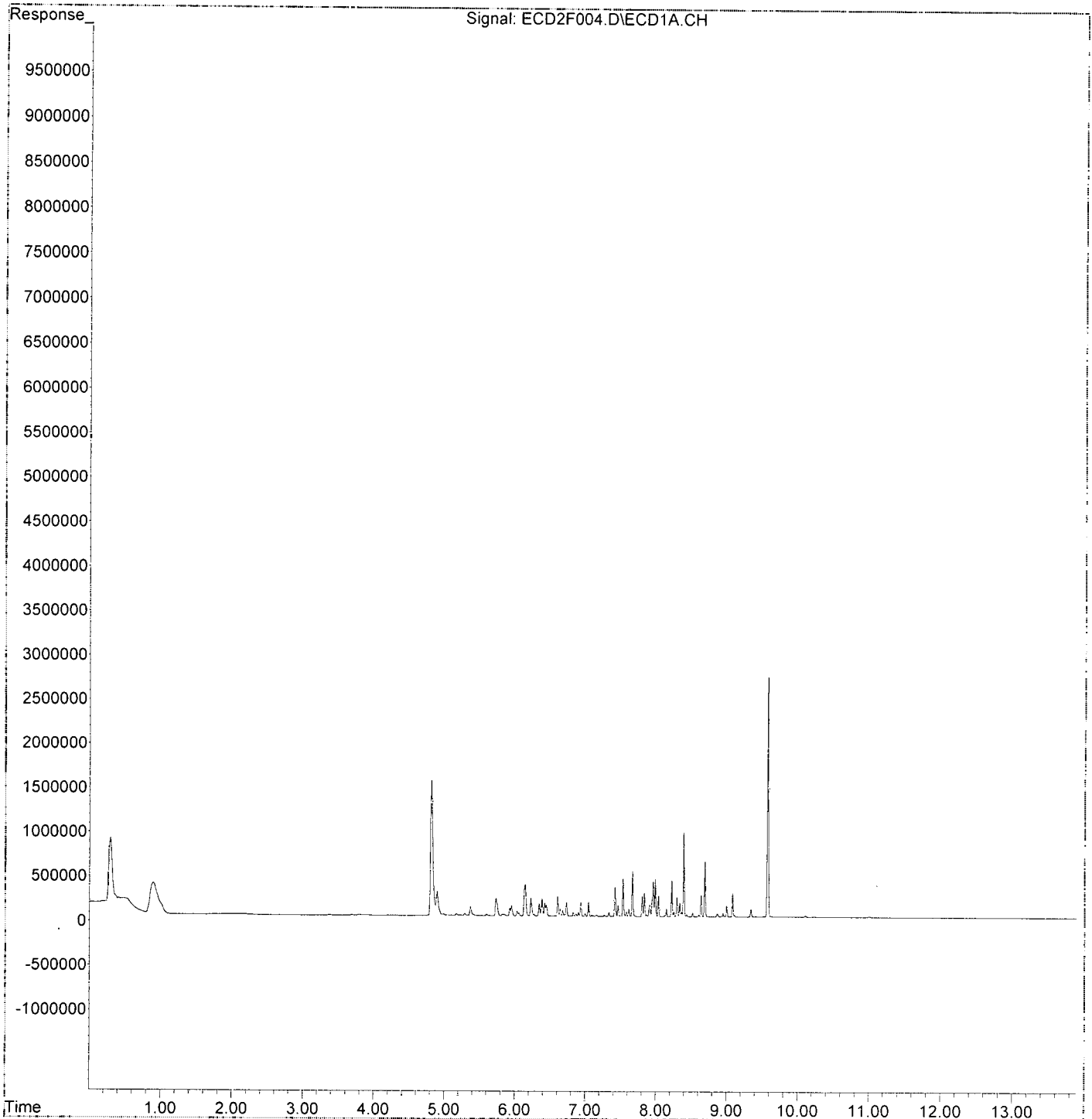
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	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\9L03052\requant\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:22  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:32:58 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:40  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL3  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:33:14 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.809	3122586	46.894 ng/ml ✓
62) S DCBP (S)	9.577	5688932	50.942 ng/ml ✓
Target Compounds			
2) Aroclor 1016 (1)	5.729	374224	100.115 ng/ml
3) Aroclor 1016 (2)	6.143	710924	98.823 ng/ml
4) Aroclor 1016 (3)	6.225	390273	98.233 ng/ml
5) Aroclor 1016 (4)	6.381	356425	99.634 ng/ml
6) Aroclor 1016 (5)	6.604	404011	97.317 ng/ml
7) Aroclor 1016 (6)	6.730	290789	99.136 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)	7.531	842440	101.160 ng/ml
42) Aroclor 1260 (2)	7.665	1012879	99.279 ng/ml
43) Aroclor 1260 (3)	8.221	802199	101.994 ng/ml
44) Aroclor 1260 (4)	8.391	1832880	98.444 ng/ml
45) Aroclor 1260 (5)	8.689	1221637	100.995 ng/ml
46) Aroclor 1260 (6)	9.082	511487	100.005 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*12/4/19*

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:40  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL3  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:33:14 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 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

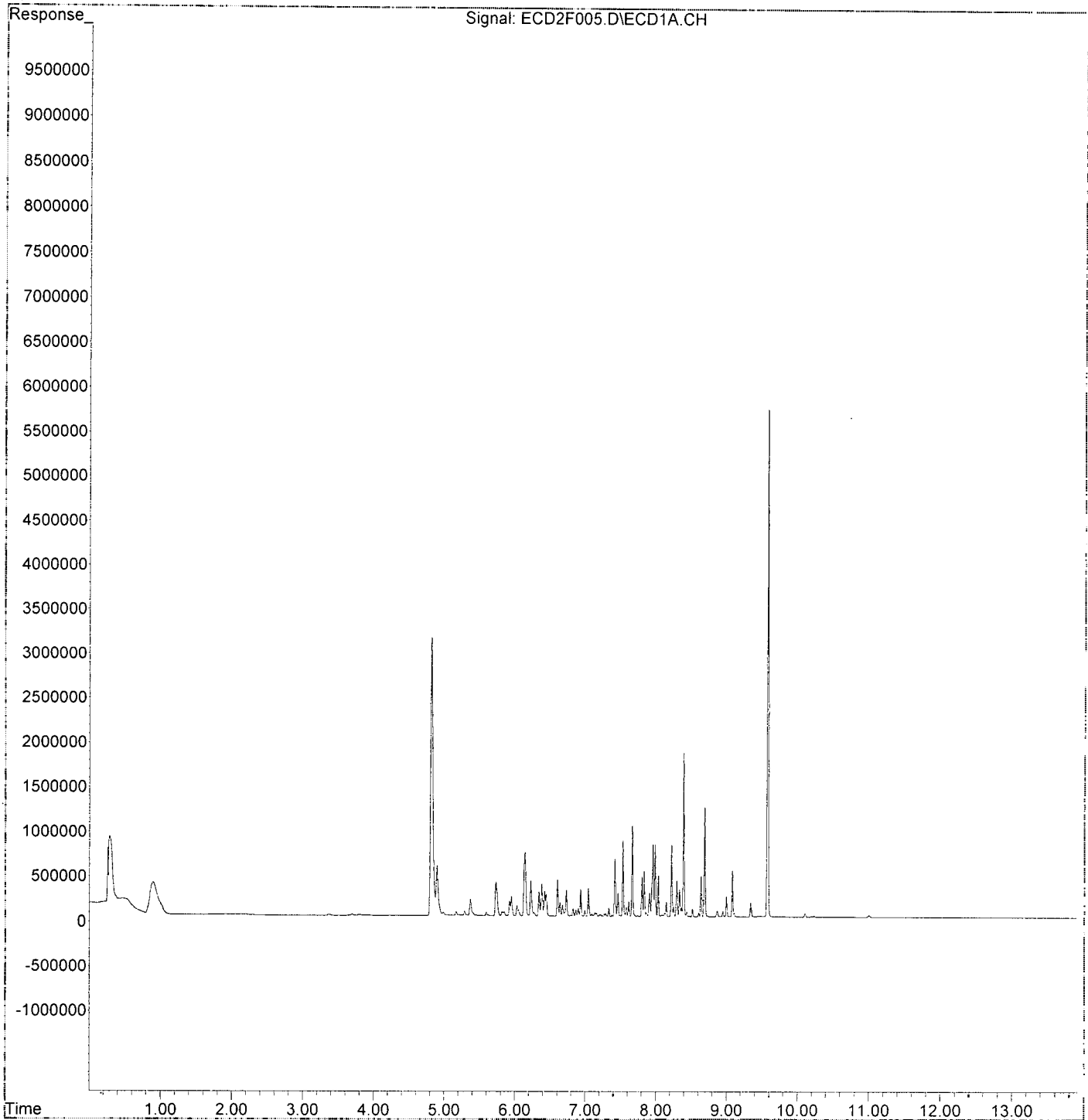
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
Data File : ECD2F005.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:40  
Operator : MJB / KAK  
Sample : 9L03052-CAL3  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:33:14 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:57  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL4  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:33:28 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.811	6242821	93.753	ng/ml ✓
62) S DCBP (S)	9.576	10577859	94.720	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	5.729	703735	188.267	ng/ml
3) Aroclor 1016 (2)	6.143	1325963	184.317	ng/ml
4) Aroclor 1016 (3)	6.224	743377	187.111	ng/ml
5) Aroclor 1016 (4)	6.381	650662	181.884	ng/ml
6) Aroclor 1016 (5)	6.604	767420	184.854	ng/ml
7) Aroclor 1016 (6)	6.729	543631	185.335	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)	7.531	1580165	189.746	ng/ml
42) Aroclor 1260 (2)	7.665	1922759	188.462	ng/ml
43) Aroclor 1260 (3)	8.220	1455817	185.097	ng/ml
44) Aroclor 1260 (4)	8.391	3616251	194.229	ng/ml
45) Aroclor 1260 (5)	8.690	2271341	187.777	ng/ml
46) Aroclor 1260 (6)	9.080	929790	181.791	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

*[Handwritten signature]*  
12/14/19



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:57  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL4  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:33:28 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 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

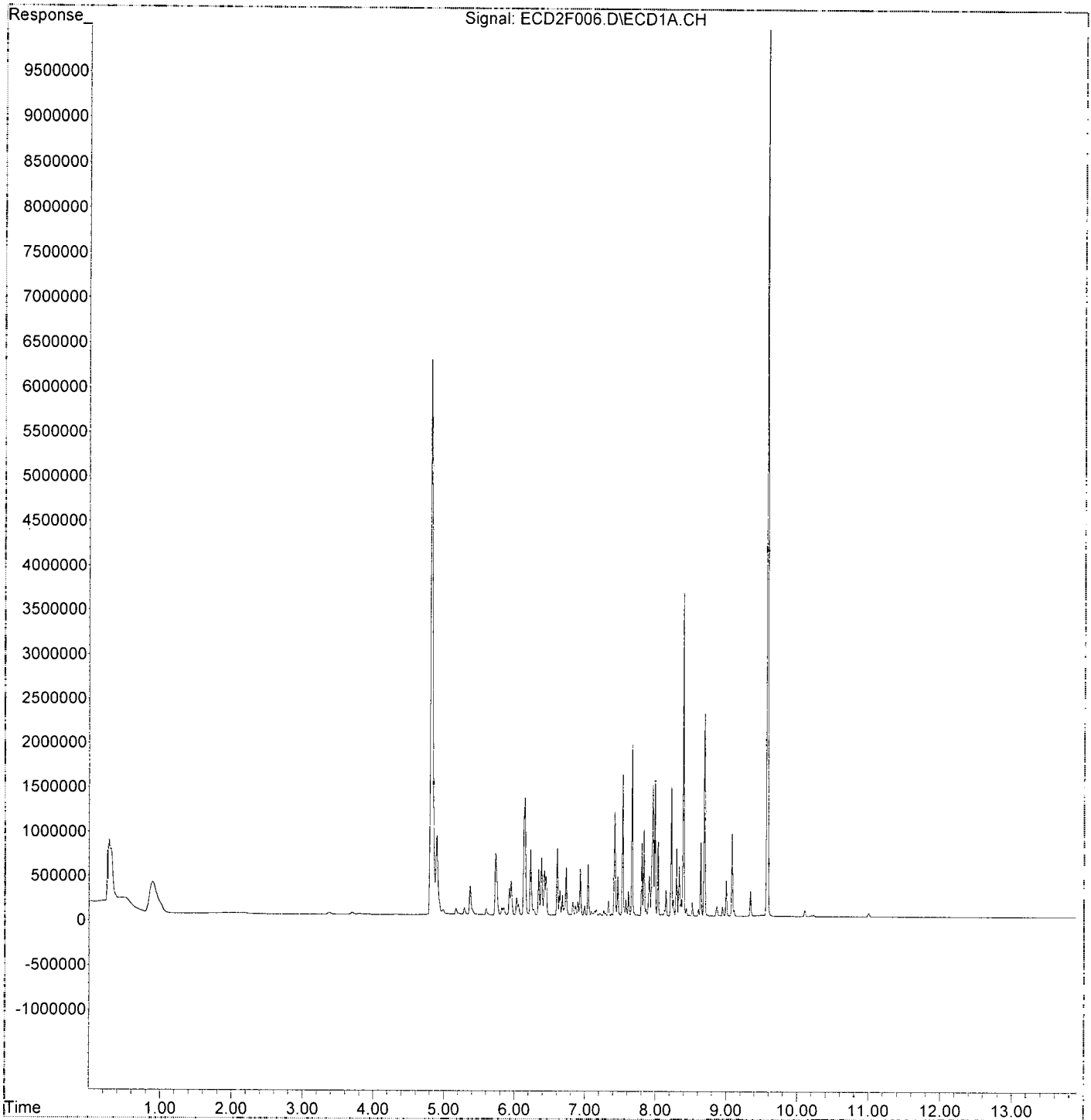
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
Data File : ECD2F006.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:57  
Operator : MJB / KAK  
Sample : 9L03052-CAL4  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:33:28 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F007.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:15  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL5  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:33:46 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.811	19144959	287.515	ng/ml
62) S DCBP (S)	9.578	31083383	278.338	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	5.729	1871482	500.670	ng/ml
3) Aroclor 1016 (2)	6.143	3859736	536.529	ng/ml
4) Aroclor 1016 (3)	6.225	2022155	508.984	ng/ml
5) Aroclor 1016 (4)	6.382	1820005	508.757	ng/ml
6) Aroclor 1016 (5)	6.604	2192154	528.041	ng/ml
7) Aroclor 1016 (6)	6.730	1484483	506.092	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)	7.532	4423699	531.197	ng/ml
42) Aroclor 1260 (2)	7.665	5325133	521.949	ng/ml
43) Aroclor 1260 (3)	8.221	3997829	508.296	ng/ml
44) Aroclor 1260 (4)	8.391	10089251	541.895	ng/ml
45) Aroclor 1260 (5)	8.690	6288943	519.920	ng/ml
46) Aroclor 1260 (6)	9.082	2699039	527.712	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

*MJB*  
12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F007.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:15  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL5  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:33:46 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

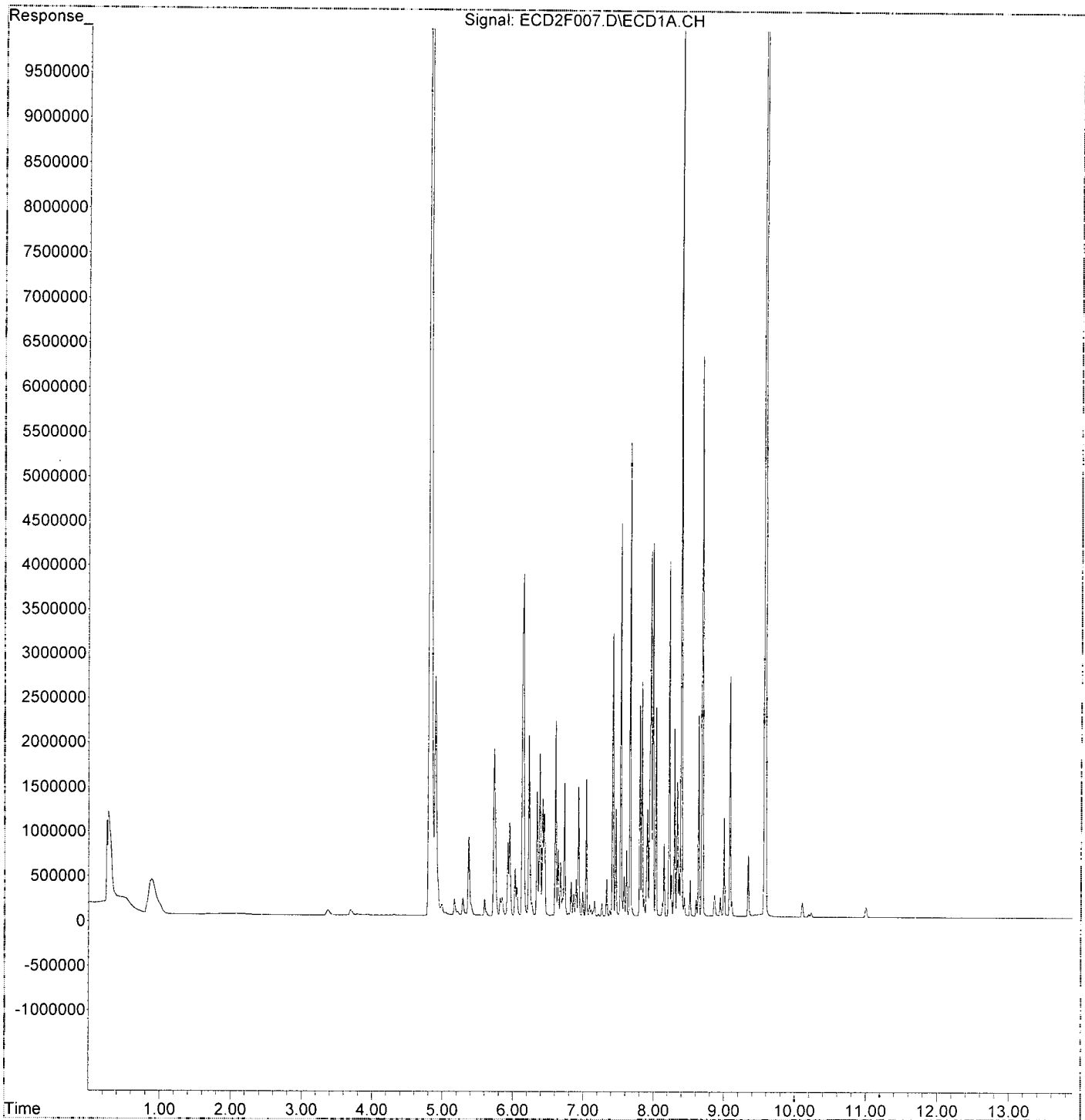
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	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\9L03052\requant\  
Data File : ECD2F007.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 18:15  
Operator : MJB / KAK  
Sample : 9L03052-CAL5  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:33:46 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F008.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:32  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL6  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:34:01 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.810	33608191	504.720	ng/ml
62) S DCBP (S)	9.578	54903816	491.639	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	5.729	3364096	899.982	ng/ml
3) Aroclor 1016 (2)	6.142	6834377	950.023	ng/ml
4) Aroclor 1016 (3)	6.225	3751237	944.200	ng/ml
5) Aroclor 1016 (4)	6.382	3257104	910.478	ng/ml
6) Aroclor 1016 (5)	6.604	3740486	900.999	ng/ml
7) Aroclor 1016 (6)	6.730	2774363	945.839	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)	7.532	7808345	937.625	ng/ml
42) Aroclor 1260 (2)	7.665	9589273	939.904	ng/ml
43) Aroclor 1260 (3)	8.221	7355010	935.138	ng/ml
44) Aroclor 1260 (4)	8.391	17708495	951.125	ng/ml
45) Aroclor 1260 (5)	8.690	11580150	957.356	ng/ml
46) Aroclor 1260 (6)	9.081	4725786	923.979	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

*Handwritten signature*  
12/14/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F008.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:32  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL6  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:34:01 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

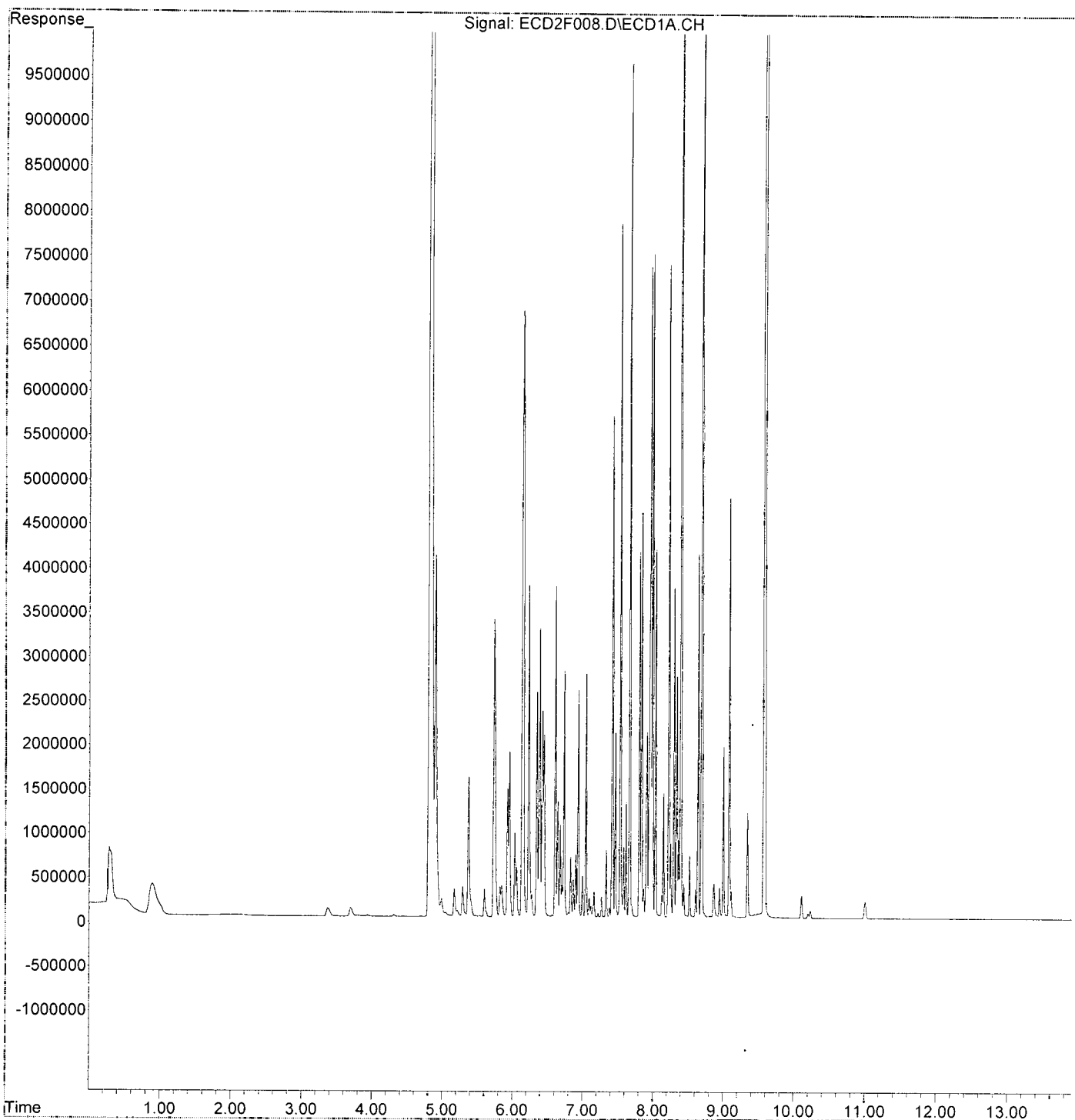
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	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\9L03052\request\  
Data File : ECD2F008.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 18:32  
Operator : MJB / KAK  
Sample : 9L03052-CAL6  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:34:01 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F009.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:50  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL7  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:34:15 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 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)	4.809	60673888	911.187	ng/ml ✓
62) S DCBP (S)	9.580	89202319	798.766	ng/ml ✓
Target Compounds				
2) Aroclor 1016 (1)	5.729	5150886	1377.995	ng/ml
3) Aroclor 1016 (2)	6.142	10450716	1452.718	ng/ml
4) Aroclor 1016 (3)	6.224	5493308	1382.686	ng/ml
5) Aroclor 1016 (4)	6.382	4711985	1317.170	ng/ml ✓
6) Aroclor 1016 (5)	6.604	5651954	1361.429	ng/ml
7) Aroclor 1016 (6)	6.730	4009865	1367.048	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)	7.532	11443339	1374.115	ng/ml
42) Aroclor 1260 (2)	7.665	15052739	1475.412	ng/ml
43) Aroclor 1260 (3)	8.221	11134634	1415.691	ng/ml ✓
44) Aroclor 1260 (4)	8.392	27659948	1485.619	ng/ml
45) Aroclor 1260 (5)	8.691	17894220	1479.353	ng/ml
46) Aroclor 1260 (6)	9.082	7455071	1457.605	ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D.	ng/ml

*12/1/19*

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\requant\  
 Data File : ECD2F009.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:50  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL7  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:34:15 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:29:22 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

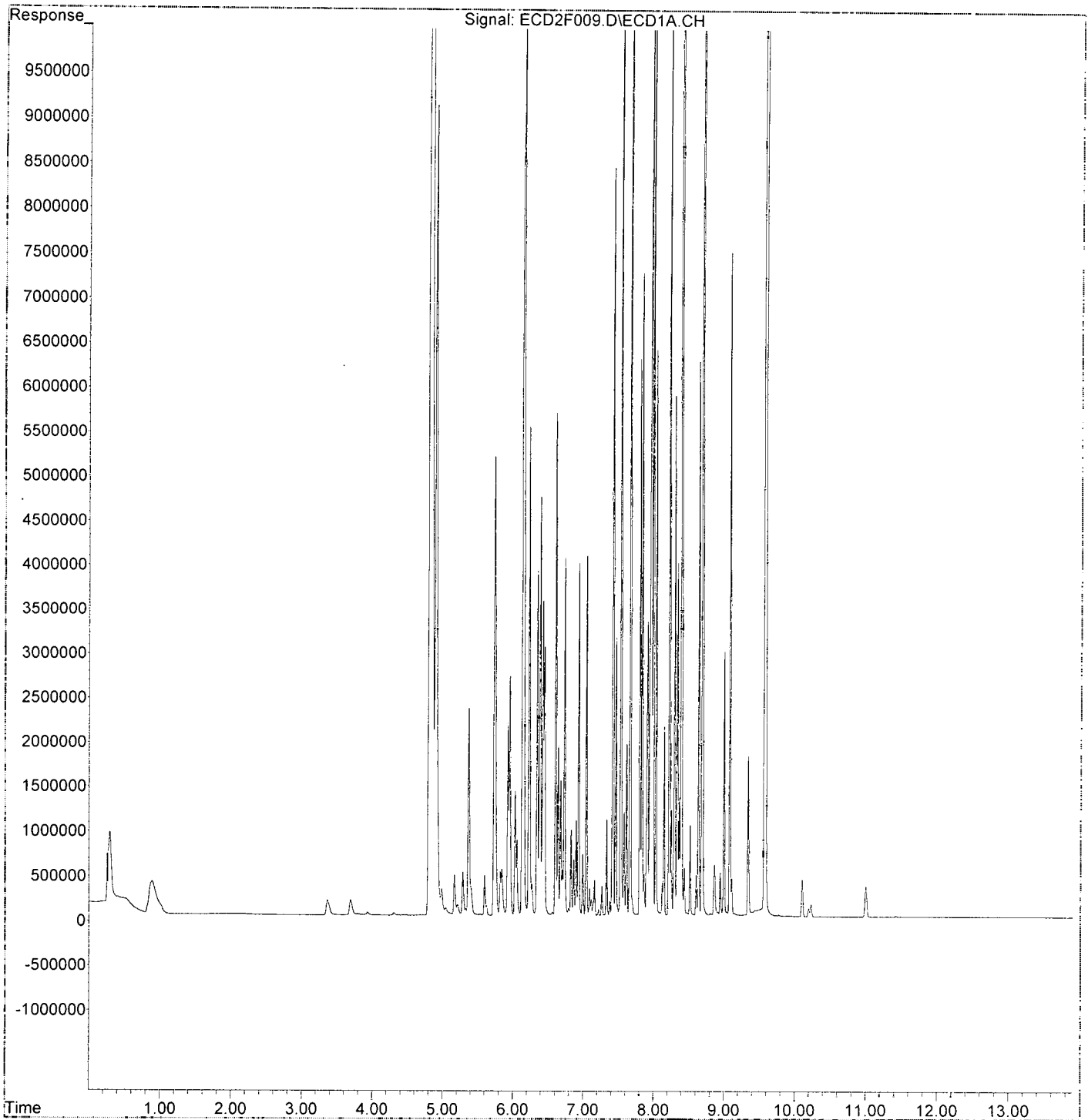
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	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\9L03052\requant\  
Data File : ECD2F009.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 18:50  
Operator : MJB / KAK  
Sample : 9L03052-CAL7  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:34:15 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:29:22 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	Hexane	E2A21015	1	Sample		
2	Vial 2	9L03052-ICB1	E2A21015	1	Sample		
3	Vial 3	9L03052-CAL1	E2A21015	1	Sample		
4	Vial 4	9L03052-CAL2	E2A21015	1	Sample		
5	Vial 5	9L03052-CAL3	E2A21015	1	Sample		
6	Vial 6	9L03052-CAL4	E2A21015	1	Sample		
7	Vial 7	9L03052-CAL5	E2A21015	1	Sample		
8	Vial 8	9L03052-CAL6	E2A21015	1	Sample		
9	Vial 9	9L03052-CAL7	E2A21015	1	Sample		
10	Vial 1	9L03052-IBL1	E2A21015	1	Sample		
11	Vial 10	9L03052-ICV1	E2A21015	1	Sample		
12	Vial 11	9L03052-CAL8	E2A21015	1	Sample		
13	Vial 12	9L03052-CAL9	E2A21015	1	Sample		
14	Vial 13	9L03052-CALA	E2A21015	1	Sample		
15	Vial 14	9L03052-CALB	E2A21015	1	Sample		
16	Vial 15	9L03052-CALC	E2A21015	1	Sample		
17	Vial 16	9L03052-CALD	E2A21015	1	Sample		
18	Vial 17	9L03052-CALE	E2A21015	1	Sample		
19	Vial 18	9L03052-ICV2	E2A21015	1	Sample		
20	Vial 19	9L03052-ICV3	E2A21015	1	Sample		
21	Vial 20	9L03052-ICV4	E2A21015	1	Sample		
22	Vial 21	9L03052-ICV5	E2A21015	1	Sample		

*12/19/19*

Sequence Table (Back Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 51	Hexane	E2A21015	1	Sample		
2	Vial 51	Hexane	E2A21015	1	Sample		
3	Vial 51	Hexane	E2A21015	1	Sample		
4	Vial 51	Hexane	E2A21015	1	Sample		
5	Vial 51	Hexane	E2A21015	1	Sample		
6	Vial 51	Hexane	E2A21015	1	Sample		
7	Vial 51	Hexane	E2A21015	1	Sample		
8	Vial 51	Hexane	E2A21015	1	Sample		
9	Vial 51	Hexane	E2A21015	1	Sample		
10	Vial 51	Hexane	E2A21015	1	Sample		
11	Vial 51	Hexane	E2A21015	1	Sample		
12	Vial 51	Hexane	E2A21015	1	Sample		
13	Vial 51	Hexane	E2A21015	1	Sample		
14	Vial 51	Hexane	E2A21015	1	Sample		
15	Vial 51	Hexane	E2A21015	1	Sample		
16	Vial 51	Hexane	E2A21015	1	Sample		
17	Vial 51	Hexane	E2A21015	1	Sample		
18	Vial 51	Hexane	E2A21015	1	Sample		
19	Vial 51	Hexane	E2A21015	1	Sample		
20	Vial 51	Hexane	E2A21015	1	Sample		
21	Vial 51	Hexane	E2A21015	1	Sample		
22	Vial 51	Hexane	E2A21015	1	Sample		

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:04  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:49:16 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 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)	4.810	607866	10.347 ng/ml
62) S DCBP (S)	9.578	1085395	12.026 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.730	89904	27.283 ng/ml
3) Aroclor 1016 (2)	6.144	161114	24.967 ng/ml
4) Aroclor 1016 (3)	6.226	94866	26.936 ng/ml
5) Aroclor 1016 (4)	6.382	87352	28.487 ng/ml
6) Aroclor 1016 (5)	6.604	97448	26.883 ng/ml
7) Aroclor 1016 (6)	6.731	68287	26.990 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)	7.532	186119	26.585 ng/ml
42) Aroclor 1260 (2)	7.665	225314	25.315 ng/ml
43) Aroclor 1260 (3)	8.222	178776	26.838 ng/ml
44) Aroclor 1260 (4)	8.392	374030	23.669 ng/ml
45) Aroclor 1260 (5)	8.690	254106	24.637 ng/ml
46) Aroclor 1260 (6)	9.082	115322	26.770 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*12/14/19*

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F003.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:04  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:49:16 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 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

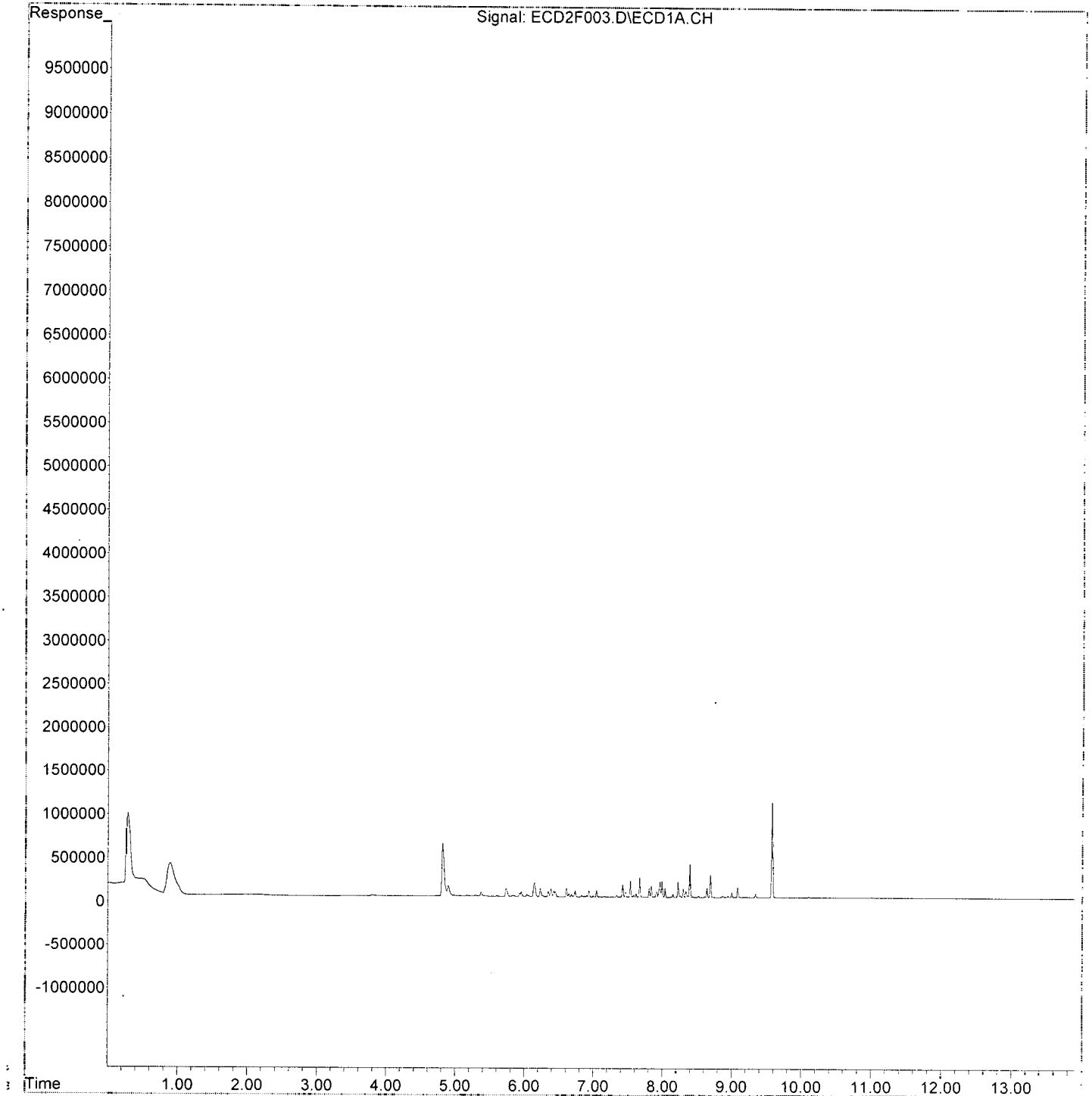
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F003.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:04  
Operator : MJB / KAK  
Sample : 9L03052-CAL1  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:49:16 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:46:53 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:22  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:50:40 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 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)	4.809	1520231	25.877 ng/ml
62) S DCBP (S)	9.576	2699632	29.910 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.729	193429	58.698 ng/ml
3) Aroclor 1016 (2)	6.143	352080	54.560 ng/ml
4) Aroclor 1016 (3)	6.225	199490	56.642 ng/ml
5) Aroclor 1016 (4)	6.381	190893	62.253 ng/ml
6) Aroclor 1016 (5)	6.604	220902	60.940 ng/ml
7) Aroclor 1016 (6)	6.731	153783	60.783 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)	7.531	418936	59.840 ng/ml
42) Aroclor 1260 (2)	7.665	506688	56.927 ng/ml
43) Aroclor 1260 (3)	8.221	402124	60.368 ng/ml
44) Aroclor 1260 (4)	8.390	944538	59.772 ng/ml
45) Aroclor 1260 (5)	8.690	615297	59.656 ng/ml
46) Aroclor 1260 (6)	9.081	258919	60.104 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*12/11/19*



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F004.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:22  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:50:40 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 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

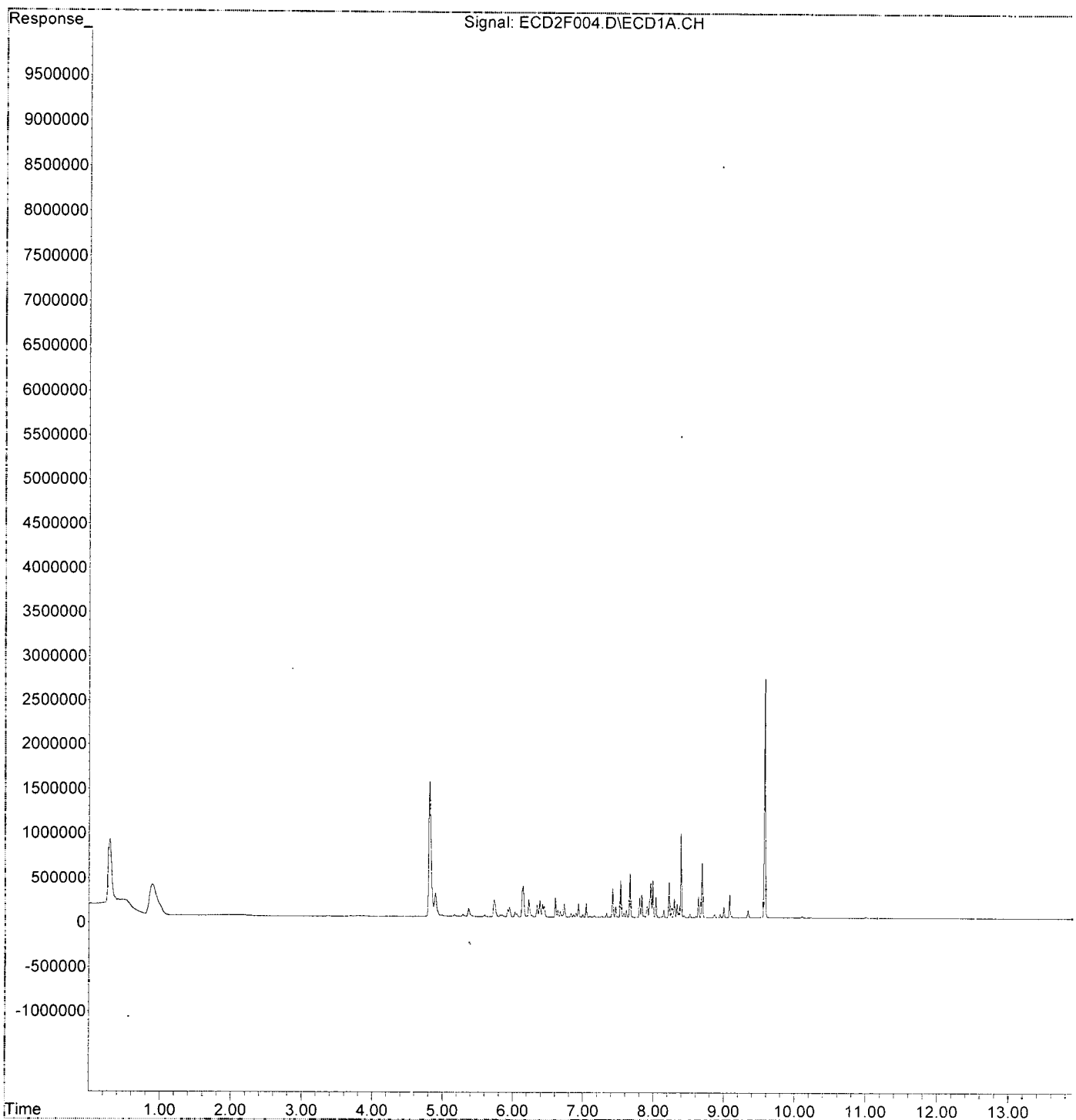
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F004.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:22  
Operator : MJB / KAK  
Sample : 9L03052-CAL2  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:50:40 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:46:53 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:40  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL3  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:51:56 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
<b>System Monitoring Compounds</b>			
1) S TCMX (S)	4.809	3122586	<del>53.152</del> ng/ml
62) S DCBP (S)	9.577	5688932	<del>63.030</del> ng/ml
<b>Target Compounds</b>			
2) Aroclor 1016 (1)	5.729	374224	<del>113.563</del> ng/ml
3) Aroclor 1016 (2)	6.143	710924	<del>110.169</del> ng/ml
4) Aroclor 1016 (3)	6.225	390273	<del>110.812</del> ng/ml
5) Aroclor 1016 (4)	6.381	356425	<del>116.236</del> ng/ml
6) Aroclor 1016 (5)	6.604	404011	<del>111.455</del> ng/ml
7) Aroclor 1016 (6)	6.730	290789	<del>114.935</del> 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)	7.531	842440	120.332 ng/ml
42) Aroclor 1260 (2)	7.665	1012879	113.799 ng/ml
43) Aroclor 1260 (3)	8.221	802199	120.429 ng/ml
44) Aroclor 1260 (4)	8.391	1832880	115.988 ng/ml
45) Aroclor 1260 (5)	8.689	1221637	118.443 ng/ml
46) Aroclor 1260 (6)	9.082	511487	118.733 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*12/11/19*

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F005.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:40  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL3  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:51:56 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

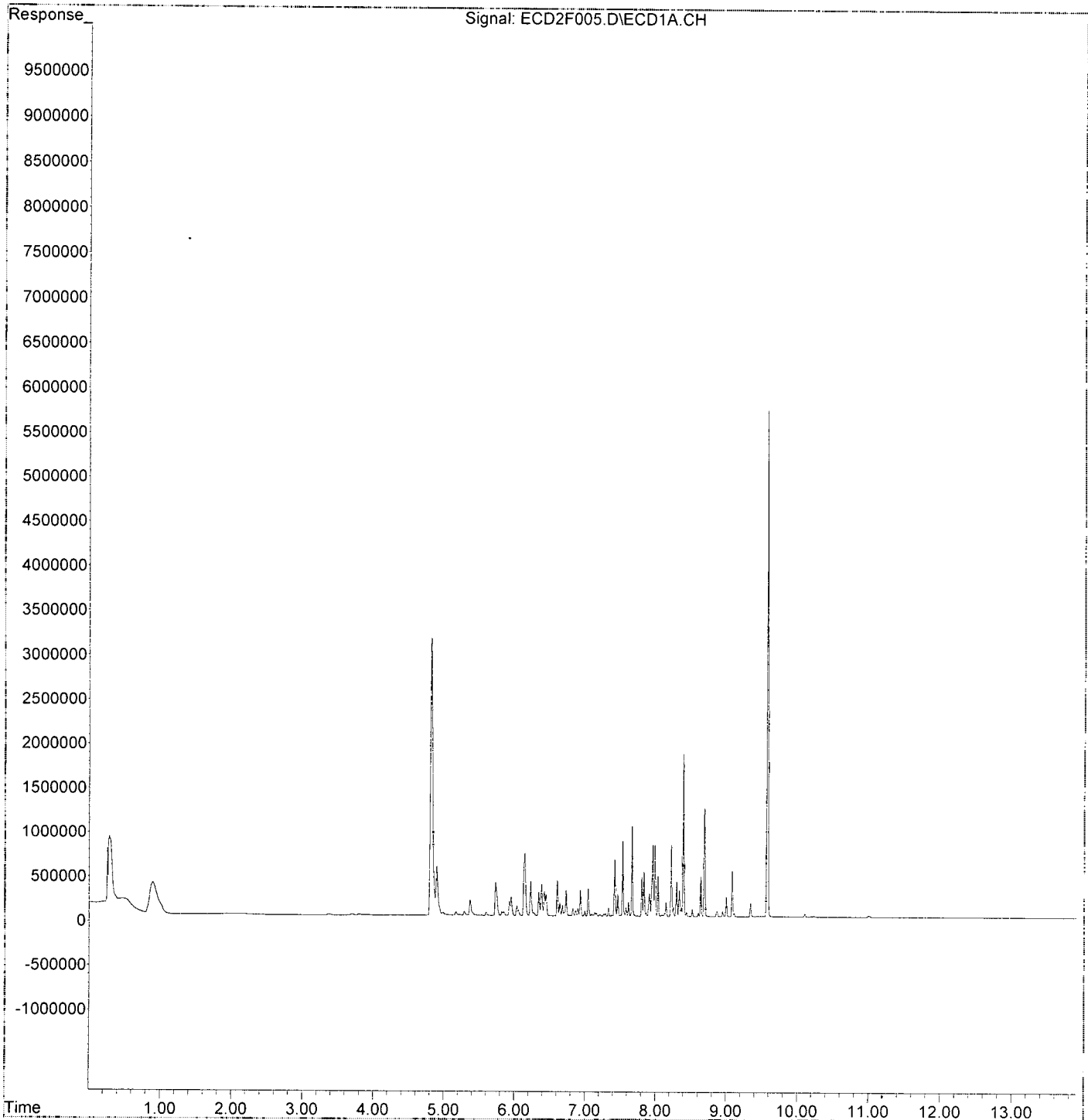
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	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\9L03052\  
Data File : ECD2F005.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:40  
Operator : MJB / KAK  
Sample : 9L03052-CAL3  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:51:56 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:46:53 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:57  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL4  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:53:08 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 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)	4.811	6242821	106.264 ng/ml
62) S DCBP (S)	9.576	10577859	117.197 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.729	703735	213.556 ng/ml
3) Aroclor 1016 (2)	6.143	1325963	205.479 ng/ml
4) Aroclor 1016 (3)	6.224	743377	211.070 ng/ml
5) Aroclor 1016 (4)	6.381	650662	212.191 ng/ml
6) Aroclor 1016 (5)	6.604	767420	211.709 ng/ml
7) Aroclor 1016 (6)	6.729	543631	214.871 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)	7.531	1580165	225.708 ng/ml
42) Aroclor 1260 (2)	7.665	1922759	216.026 ng/ml
43) Aroclor 1260 (3)	8.220	1455817	218.552 ng/ml
44) Aroclor 1260 (4)	8.391	3616251	228.843 ng/ml
45) Aroclor 1260 (5)	8.690	2271341	220.217 ng/ml
46) Aroclor 1260 (6)	9.080	929790	215.835 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*Handwritten signature and date: 12/4/19*

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F006.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 17:57  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL4  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:53:08 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 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

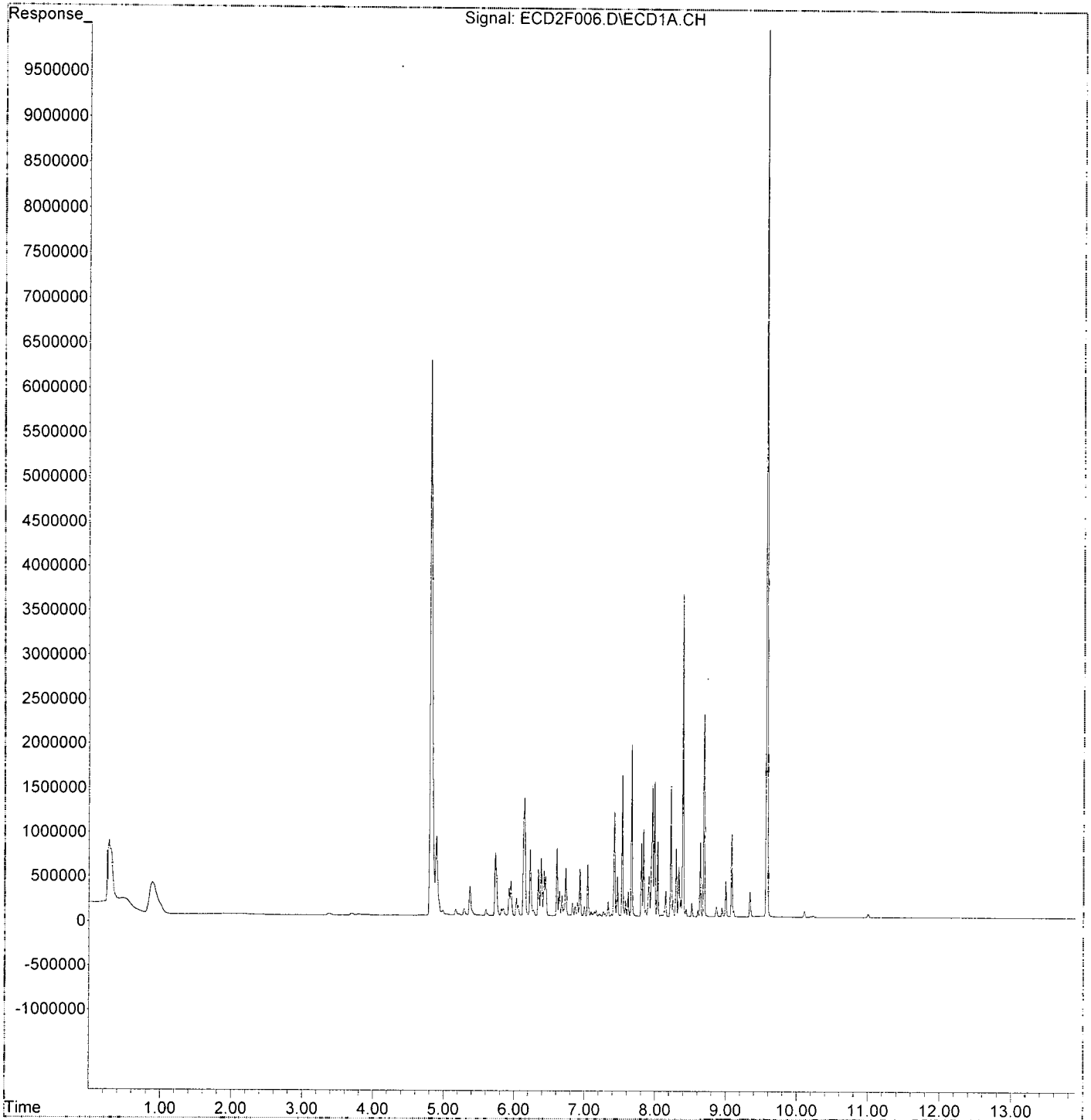
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F006.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 17:57  
Operator : MJB / KAK  
Sample : 9L03052-CAL4  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:53:08 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:46:53 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F007.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:15  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL5  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:47:08 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 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)	4.811	19144959	<del>325.882</del> ng/ml
62) S DCBP (S)	9.578	31083383	<del>344.386</del> ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.729	1871482	<del>567.923</del> ng/ml
3) Aroclor 1016 (2)	6.143	3859736	<del>598.126</del> ng/ml
4) Aroclor 1016 (3)	6.225	2022155	<del>574.160</del> ng/ml
5) Aroclor 1016 (4)	6.382	1820005	<del>593.533</del> ng/ml
6) Aroclor 1016 (5)	6.604	2192154	<del>604.752</del> ng/ml
7) Aroclor 1016 (6)	6.730	1484483	<del>586.744</del> 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)	7.532	4423699	<del>631.872</del> ng/ml
42) Aroclor 1260 (2)	7.665	5325133	<del>598.290</del> ng/ml
43) Aroclor 1260 (3)	8.221	3997829	<del>600.167</del> ng/ml
44) Aroclor 1260 (4)	8.391	10089251	<del>638.466</del> ng/ml
45) Aroclor 1260 (5)	8.690	6288943	<del>609.741</del> ng/ml
46) Aroclor 1260 (6)	9.082	2699039	<del>626.537</del> ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*[Handwritten signature]*  
 12/4/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F007.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:15  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL5  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:47:08 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

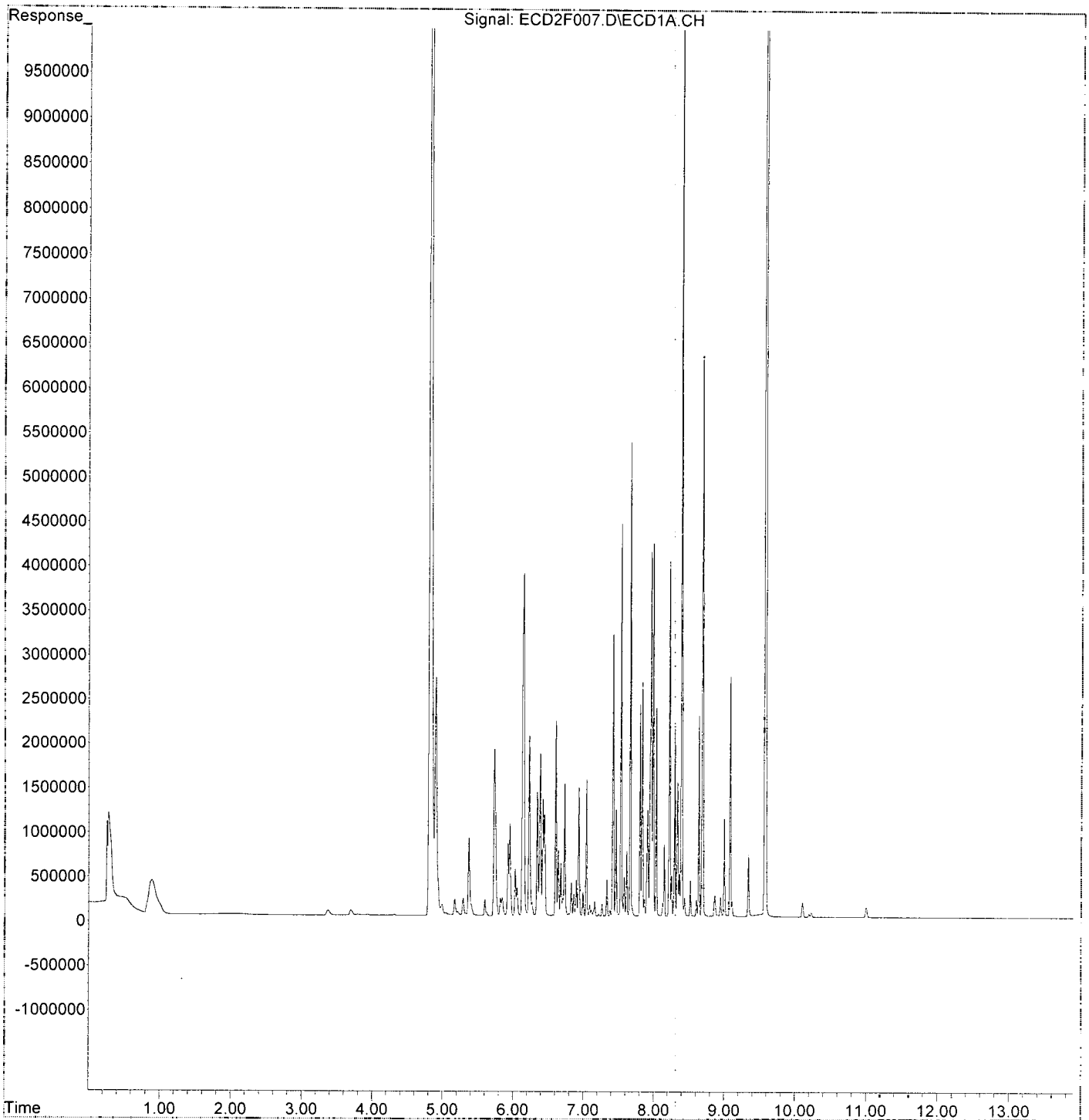
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	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\9L03052\  
 Data File : ECD2F007.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:15  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL5  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:47:08 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F008.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:32  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL6  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:54:26 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 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)	4.810	33608191	572.073 ng/ml
62) S DCBP (S)	9.578	54903816	608.303 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.729	3364096	1020.874 ng/ml
3) Aroclor 1016 (2)	6.142	6834377	1059.093 ng/ml
4) Aroclor 1016 (3)	6.225	3751237	1065.106 ng/ml
5) Aroclor 1016 (4)	6.382	3257104	1062.193 ng/ml
6) Aroclor 1016 (5)	6.604	3740486	1031.893 ng/ml
7) Aroclor 1016 (6)	6.730	2774363	1096.572 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)	7.532	7808345	1115.329 ng/ml
42) Aroclor 1260 (2)	7.665	9589273	1077.375 ng/ml
43) Aroclor 1260 (3)	8.221	7355010	1104.158 ng/ml
44) Aroclor 1260 (4)	8.391	17708495	1120.626 ng/ml
45) Aroclor 1260 (5)	8.690	11580150	1122.747 ng/ml
46) Aroclor 1260 (6)	9.081	4725786	1097.013 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*[Handwritten signature]*  
12/11/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F008.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:32  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL6  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:54:26 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 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

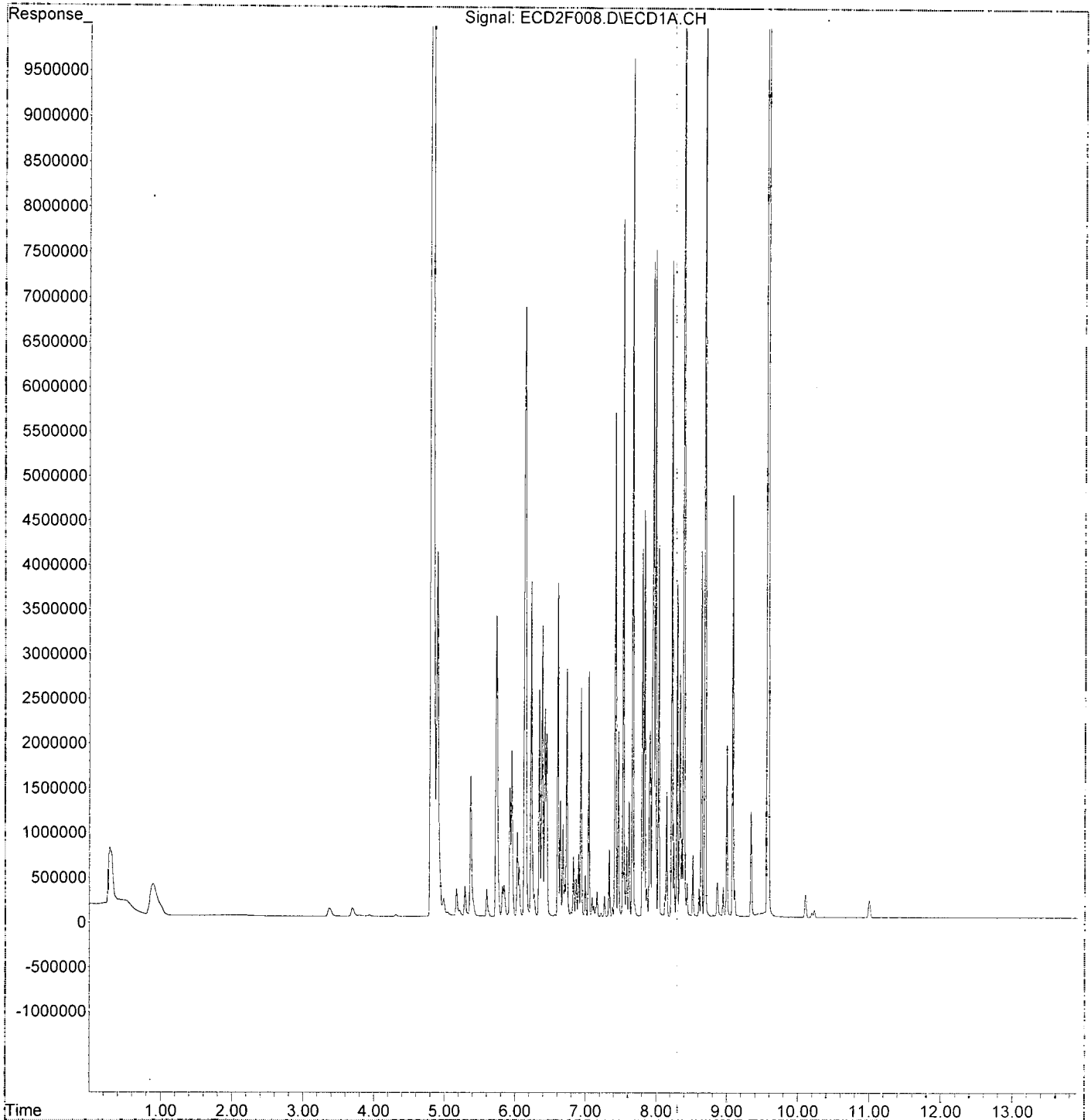
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F008.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 18:32  
Operator : MJB / KAK  
Sample : 9L03052-CAL6  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:54:26 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:46:53 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F009.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:50  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL7  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:56:25 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 2019  
 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)	4.809	60673888	1032.780 ng/ml
62) S DCBP (S)	9.580	89202319	988.310 ng/ml
Target Compounds			
2) Aroclor 1016 (1)	5.729	5150886	1563.096 ng/ml
3) Aroclor 1016 (2)	6.142	10450716	1619.501 ng/ml
4) Aroclor 1016 (3)	6.224	5493308	1559.740 ng/ml
5) Aroclor 1016 (4)	6.382	4711985	1536.653 ng/ml
6) Aroclor 1016 (5)	6.604	5651954	1559.212 ng/ml
7) Aroclor 1016 (6)	6.730	4009865	1584.906 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)	7.532	11443339	1634.544 ng/ml
42) Aroclor 1260 (2)	7.665	15052739	1691.206 ng/ml
43) Aroclor 1260 (3)	8.221	11134634	1671.567 ng/ml
44) Aroclor 1260 (4)	8.392	27659948	1750.371 ng/ml
45) Aroclor 1260 (5)	8.691	17894220	1734.924 ng/ml
46) Aroclor 1260 (6)	9.082	7455071	1730.572 ng/ml
47) Aroclor 1260 - AVE	0.000	0	N.D. ng/ml

*12/11/19*

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F009.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 18:50  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL7  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:56:25 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:46:53 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/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

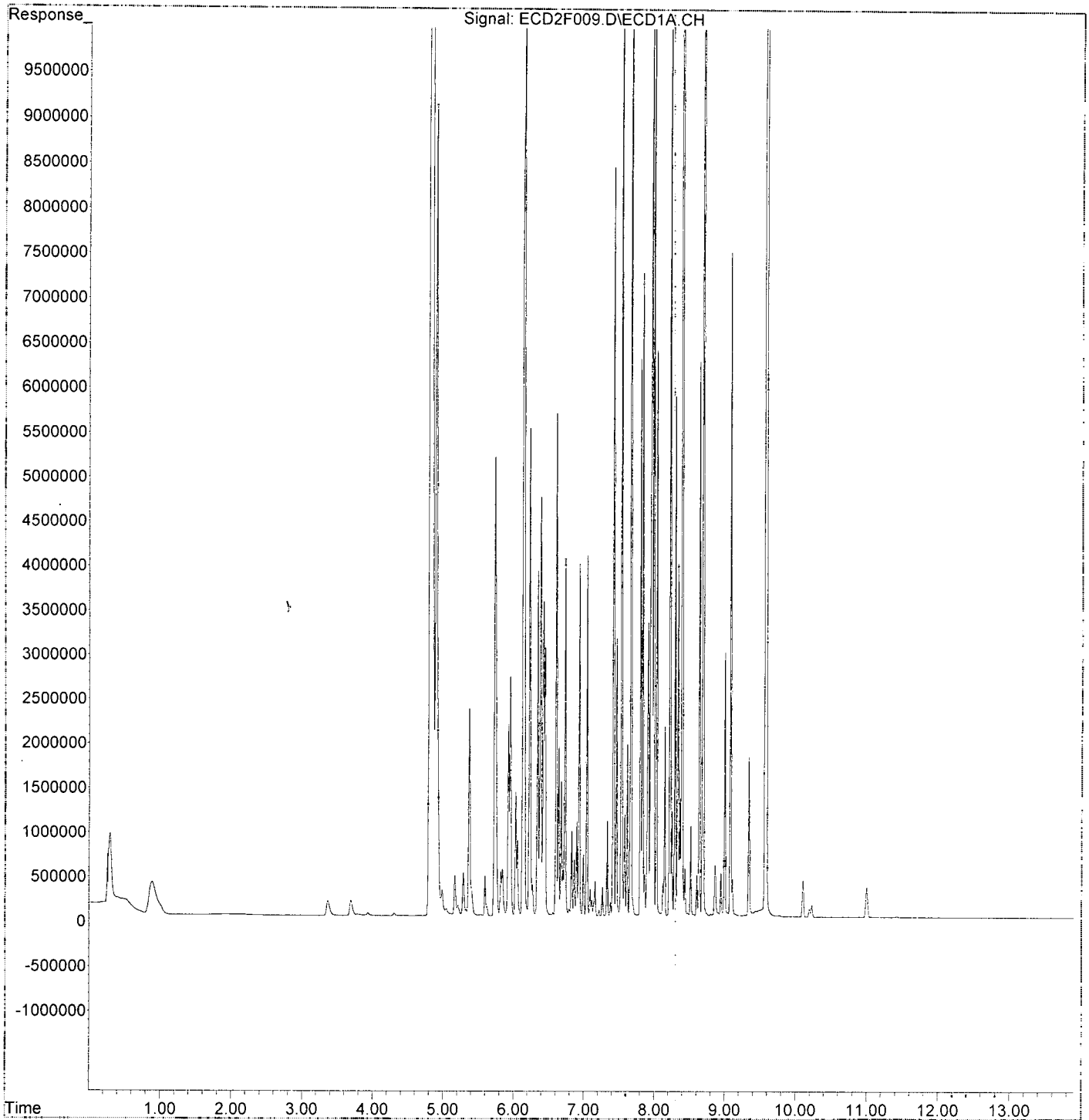
(f)=RT Delta > 1/2 Window

(m)=manual int.



Data Path : K:\DATA\9L03052\  
Data File : ECD2F009.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 18:50  
Operator : MJB / KAK  
Sample : 9L03052-CAL7  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:56:25 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:46:53 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F012.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 19:43  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL8  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:58:12 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:58:04 2019  
 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)	5.167	541216	548.599	ng/ml
10) Aroclor 1221 (2)	5.286	358784	549.849	ng/ml
11) Aroclor 1221 (3)	5.366	1170056	547.567	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 and date: 12/14/19*

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F012.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 19:43  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL8  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:58:12 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:58:04 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

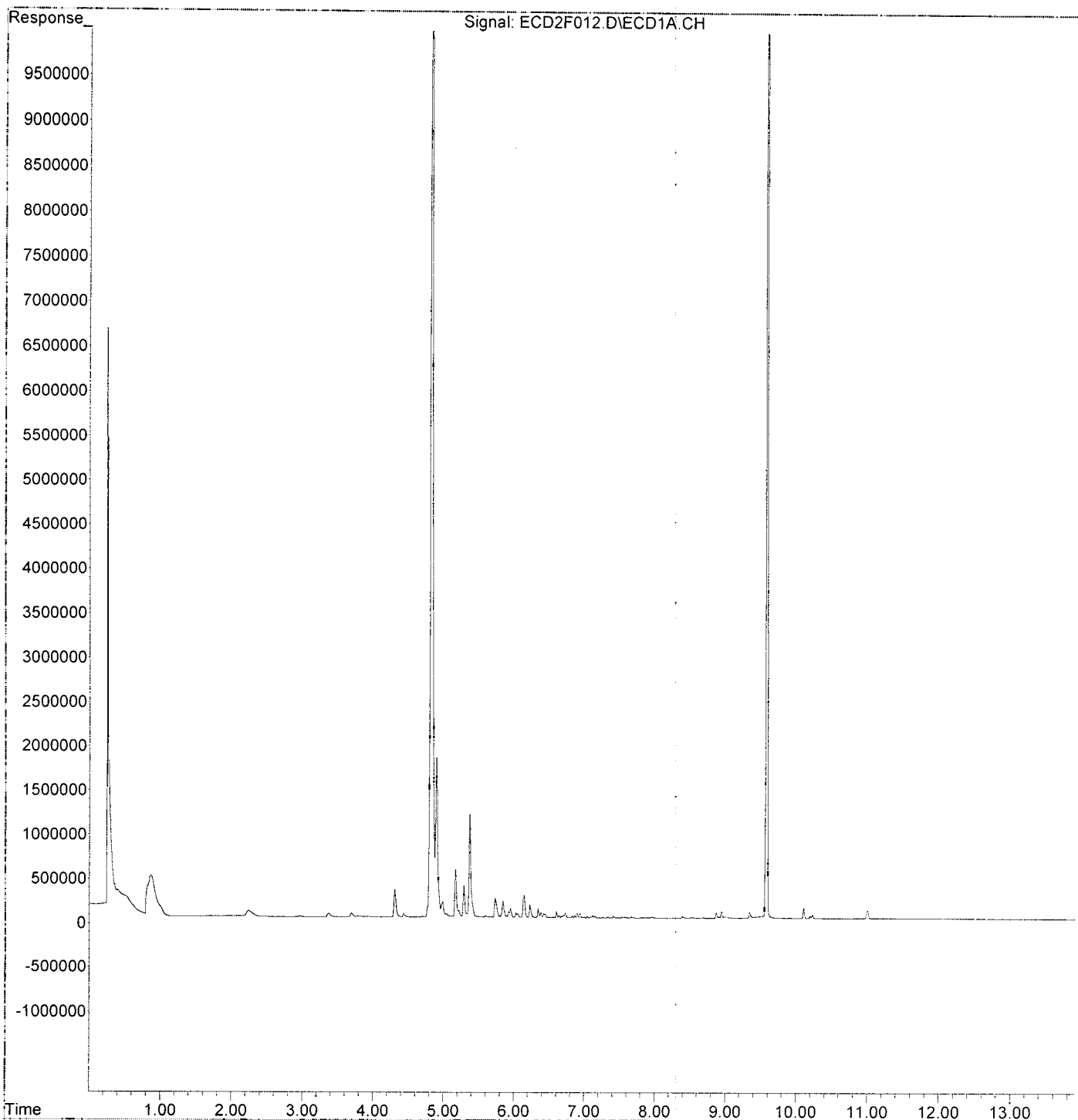
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	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\9L03052\  
Data File : ECD2F012.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 19:43  
Operator : MJB / KAK  
Sample : 9L03052-CAL8  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:58:12 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:58:04 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L03052\  
 Data File : ECD2F013.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:01  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL9  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:59:44 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:59:38 2019  
 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)	5.368	888086	514.457	ng/ml
14) Aroclor 1232 (2)	6.142	1390092	546.929	ng/ml
15) Aroclor 1232 (3)	6.225	733471	527.208	ng/ml
16) Aroclor 1232 (4)	6.382	569682	572.844	ng/ml
17) Aroclor 1232 (5)	6.604	717990	566.540	ng/ml
18) Aroclor 1232 (6)	6.730	599061	579.471	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

*12/11/19*

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F013.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:01  
 Operator : MJB / KAK  
 Sample : 9L03052-CAL9  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 14:59:44 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 14:59:38 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

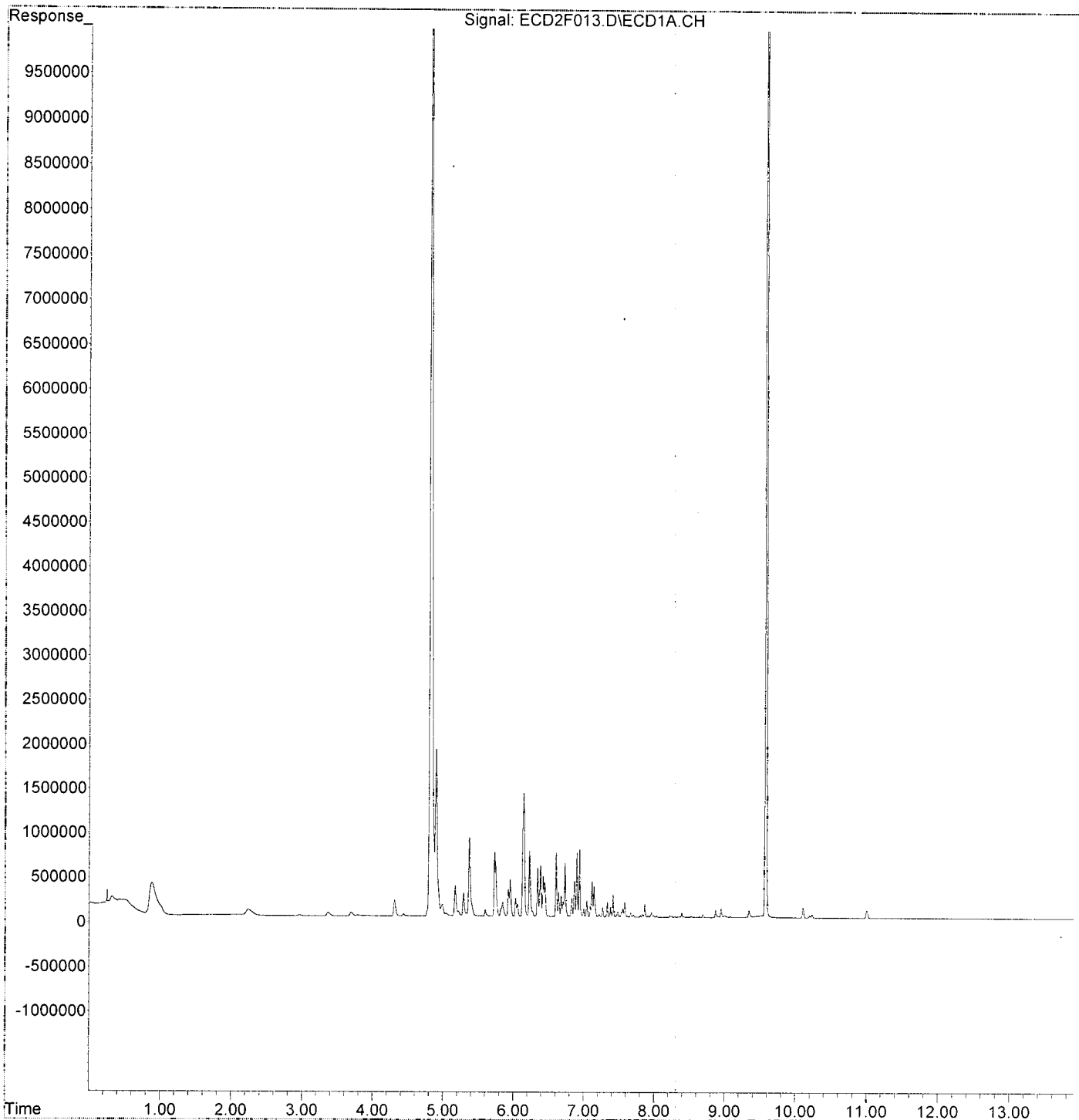
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F013.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 20:01  
Operator : MJB / KAK  
Sample : 9L03052-CAL9  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 14:59:44 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 14:59:38 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L03052\  
 Data File : ECD2F014.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:18  
 Operator : MJB / KAK  
 Sample : 9L03052-CALA  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:01:14 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:01:07 2019  
 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)	5.728	1328013	579.386	ng/ml
21) Aroclor 1242 (2)	6.141	2593542	562.063	ng/ml
22) Aroclor 1242 (3)	6.224	1410085	581.224	ng/ml
23) Aroclor 1242 (4)	6.380	1144590	560.027	ng/ml
24) Aroclor 1242 (5)	6.603	1492353	571.145	ng/ml
25) Aroclor 1242 (6)	6.729	1254611	589.352	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: 12/12/19*



Data Path : K:\DATA\9L03052\  
 Data File : ECD2F014.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:18  
 Operator : MJB / KAK  
 Sample : 9L03052-CALA  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:01:14 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:01:07 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

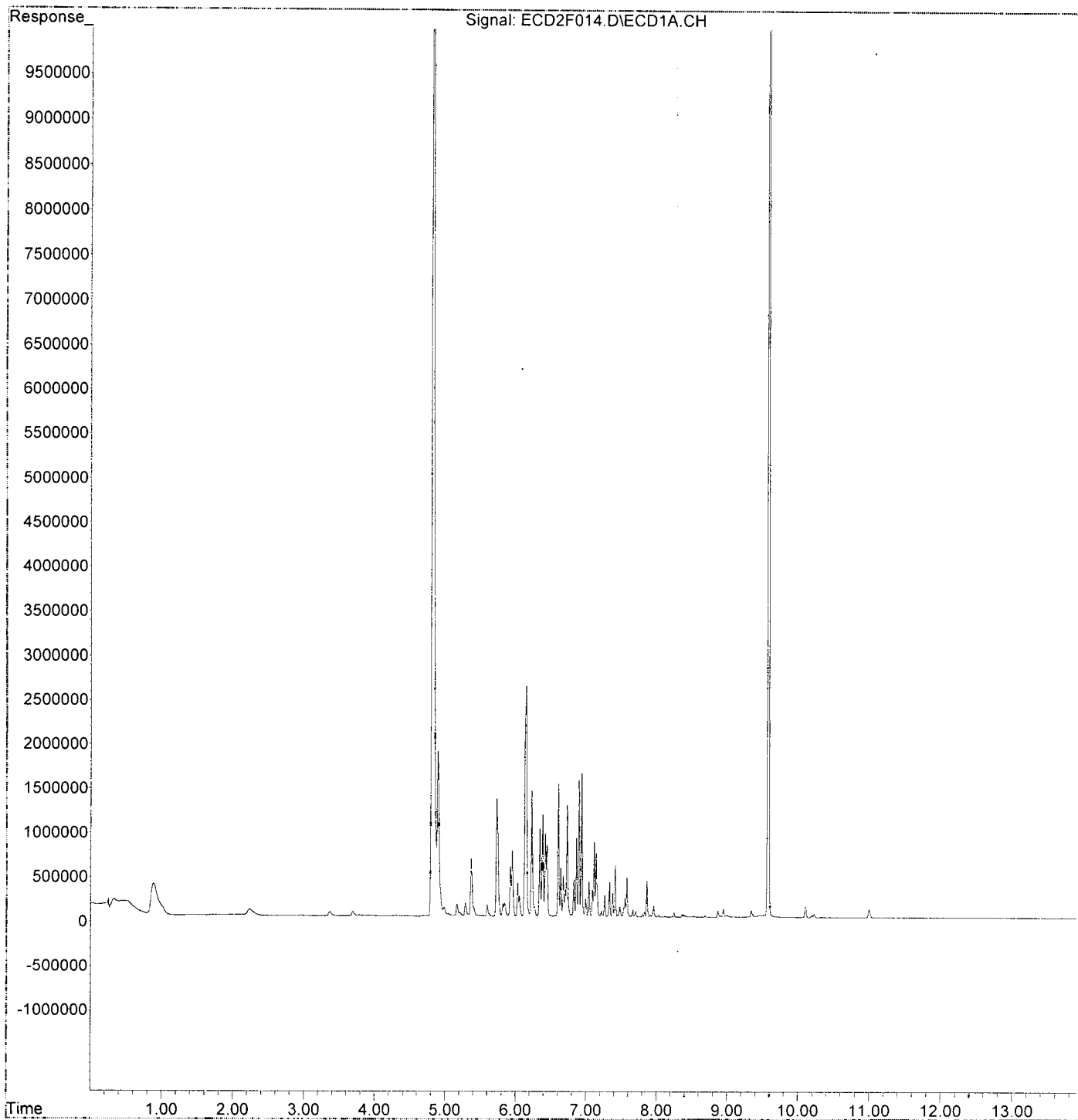
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F014.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 20:18  
Operator : MJB / KAK  
Sample : 9L03052-CALA  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:01:14 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:01:07 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F015.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:36  
 Operator : MJB / KAK  
 Sample : 9L03052-CALB  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:08:37 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 Last Update : Wed Dec 04 15:08:29 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
<b>System Monitoring Compounds</b>				
1) S TCMX (S)	0.000	0	N.D.	ng/ml
62) S DCBP (S)	0.000	0	N.D.	ng/ml
<b>Target Compounds</b>				
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)	6.132	1701647	573.384	ng/ml
28) Aroclor 1248 (2)	6.381	2257607	618.100	ng/ml
29) Aroclor 1248 (3)	6.602	2609430	598.171	ng/ml
30) Aroclor 1248 (4)	6.897	2902570	579.992	ng/ml
31) Aroclor 1248 (5)	6.935	3079652	600.040	ng/ml
32) Aroclor 1248 (6)	7.411	1708709	612.376	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

*MJB* 12/14/19

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F015.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:36  
 Operator : MJB / KAK  
 Sample : 9L03052-CALB  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:08:37 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:08:29 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

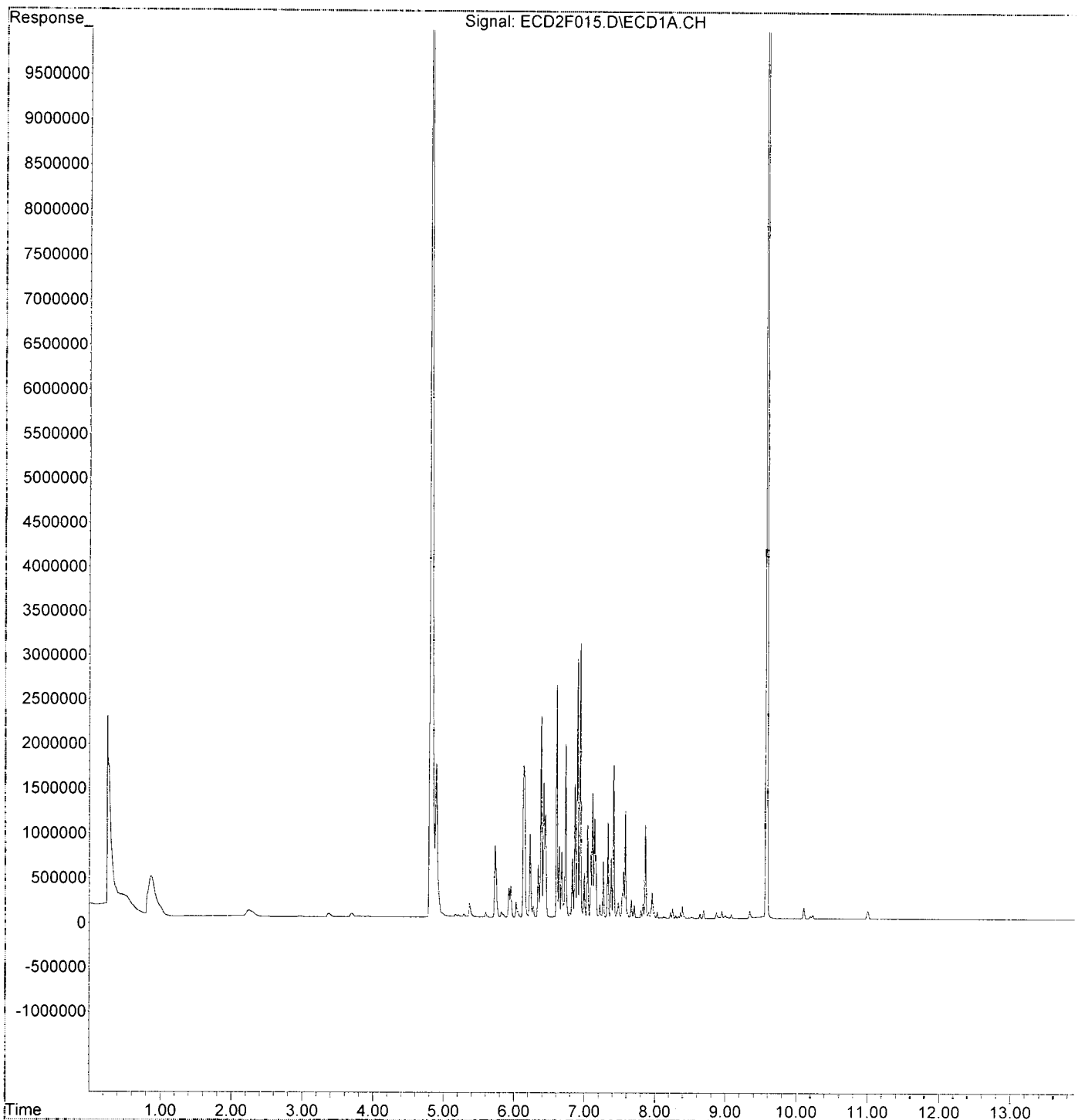
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/ml
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/ml
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/ml
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/ml
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/ml
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/ml
54) Aroclor 1262 - AVE	0.000	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\9L03052\  
Data File : ECD2F015.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 20:36  
Operator : MJB / KAK  
Sample : 9L03052-CALB  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:08:37 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:08:29 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : K:\DATA\9L03052\  
 Data File : ECD2F016.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:53  
 Operator : MJB / KAK  
 Sample : 9L03052-CALC  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:10:17 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:10:11 2019  
 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)	6.931	2999059	566.437	ng/ml
35) Aroclor 1254 (2)	7.041	3643784	577.886	ng/ml
36) Aroclor 1254 (3)	7.412	5604987	589.510	ng/ml
37) Aroclor 1254 (4)	7.578	3565014	559.341	ng/ml
38) Aroclor 1254 (5)	7.959	3829495	583.093	ng/ml
39) Aroclor 1254 (6)	8.251	1246944	598.592	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

*MJB*  
12/4/19

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F016.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 20:53  
 Operator : MJB / KAK  
 Sample : 9L03052-CALC  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:10:17 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:10:11 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

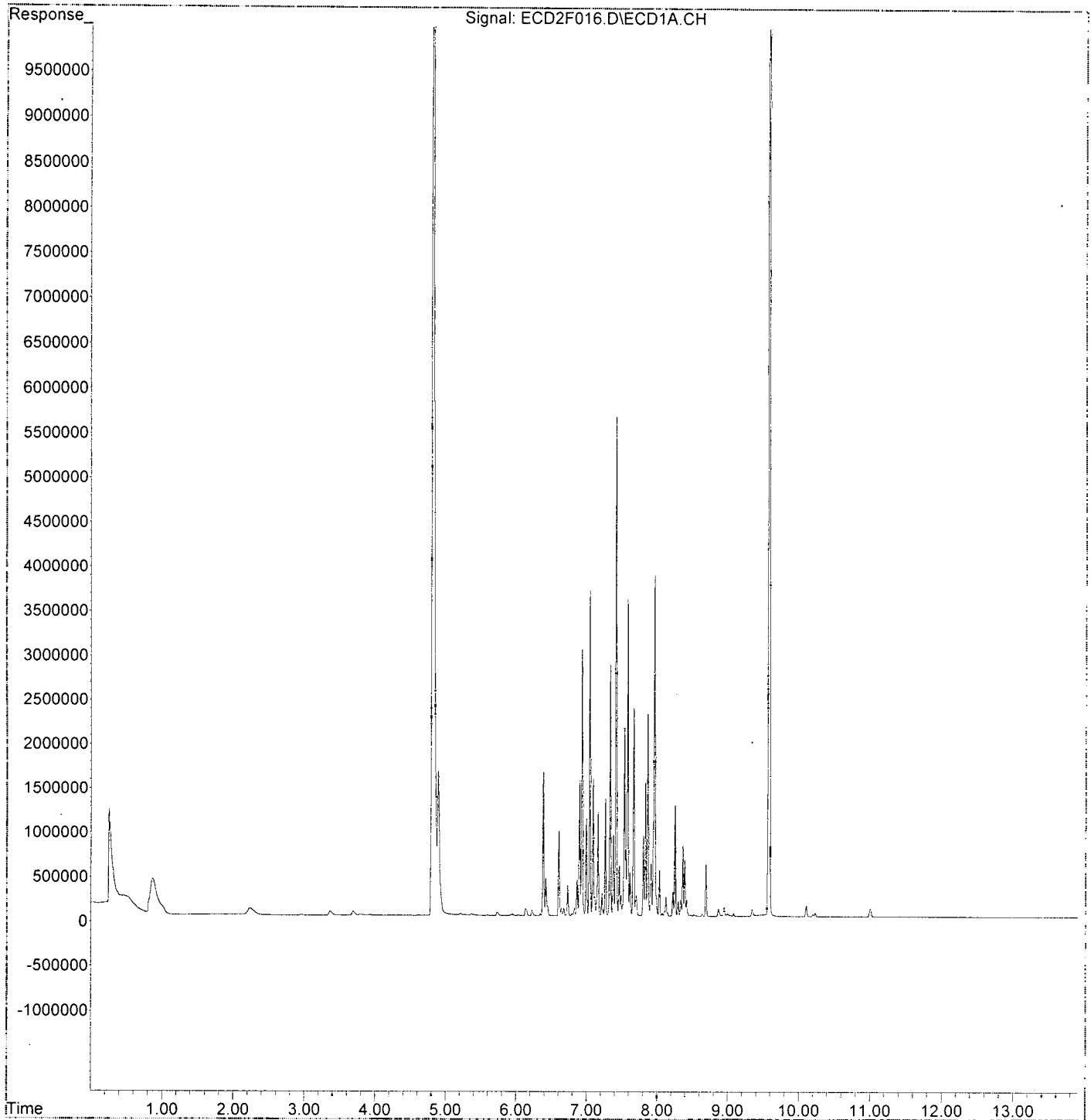
Compound	R.T.	Response	Conc	Units
48) Aroclor 1262 (1)	0.000	0	N.D.	ng/mld
49) Aroclor 1262 (2)	0.000	0	N.D.	ng/mld
50) Aroclor 1262 (3)	0.000	0	N.D.	ng/mld
51) Aroclor 1262 (4)	0.000	0	N.D.	ng/mld
52) Aroclor 1262 (5)	0.000	0	N.D.	ng/mld
53) Aroclor 1262 (6)	0.000	0	N.D.	ng/mld
54) Aroclor 1262 - AVE	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\9L03052\  
Data File : ECD2F016.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 20:53  
Operator : MJB / KAK  
Sample : 9L03052-CALC  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:10:17 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:10:11 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Data Path : K:\DATA\9L03052\  
 Data File : ECD2F017.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 21:11  
 Operator : MJB / KAK  
 Sample : 9L03052-CALD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:11:52 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:11:45 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
 12/14/19

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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F017.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 21:11  
 Operator : MJB / KAK  
 Sample : 9L03052-CALD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:11:52 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:11:45 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc Units
48) Aroclor 1262 (1)	7.664	4023207	603.629 ng/ml
49) Aroclor 1262 (2)	7.988	5612535	601.336 ng/ml
50) Aroclor 1262 (3)	8.220	4852466	611.448 ng/ml
51) Aroclor 1262 (4)	8.390	10330047	587.616 ng/ml
52) Aroclor 1262 (5)	8.688	6541182	608.155 ng/ml
53) Aroclor 1262 (6)	9.081	3338319	586.149 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

*MJB*  
 12/14/19

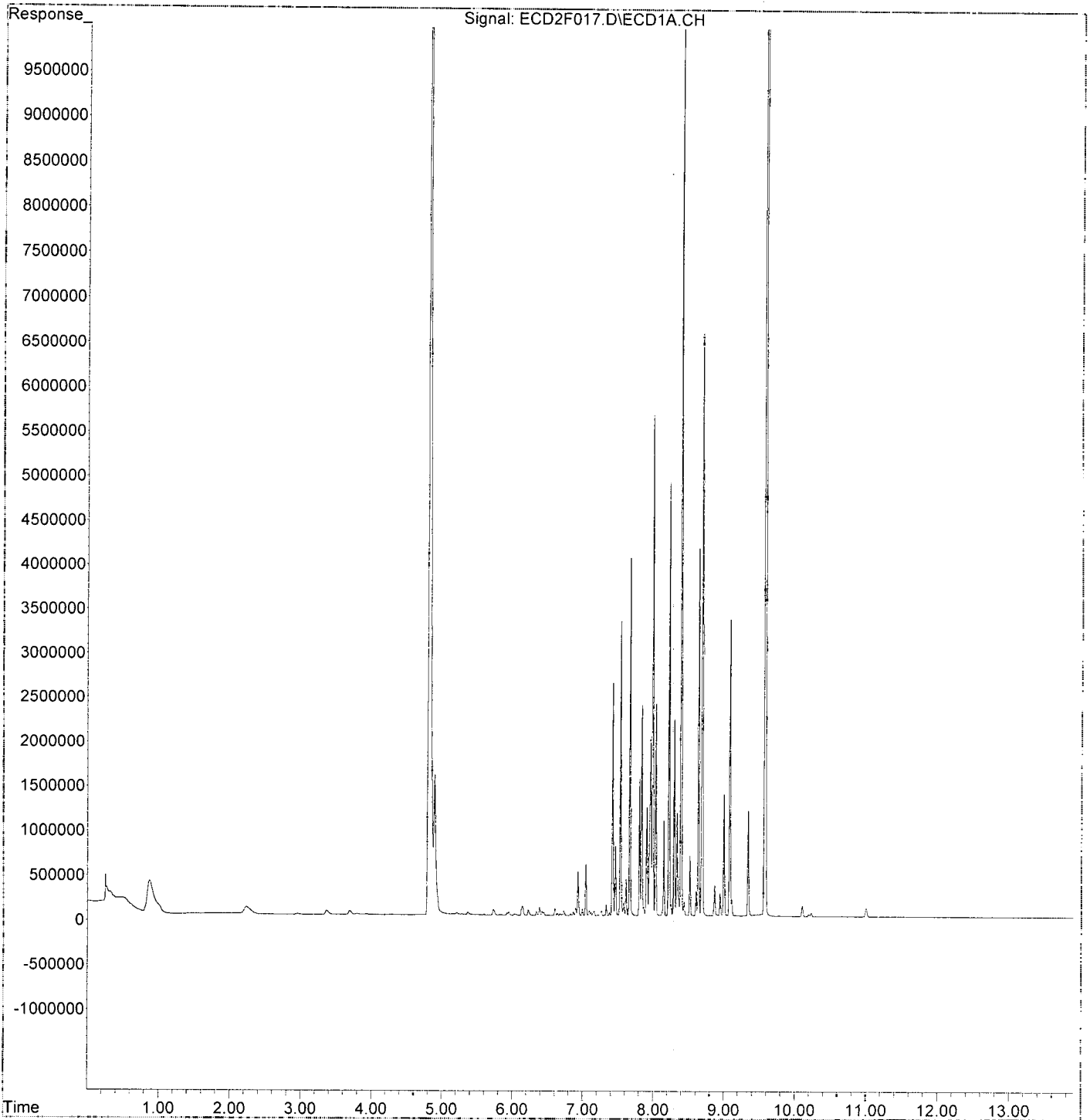
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F017.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 21:11  
Operator : MJB / KAK  
Sample : 9L03052-CALD  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:11:52 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:11:45 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F018.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 21:29  
 Operator : MJB / KAK  
 Sample : 9L03052-CALE  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:13:26 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:13:19 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*[Handwritten Signature]*  
 12/14/19

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

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
 Data File : ECD2F018.D  
 Signal(s) : ECD1A.CH  
 Acq On : 03 Dec 2019 21:29  
 Operator : MJB / KAK  
 Sample : 9L03052-CALE  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e  
 Quant Time: Dec 04 15:13:26 2019  
 Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
 Quant Title : PCB Data Analysis  
 QLast Update : Wed Dec 04 15:13:19 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)	8.212	2552118	620.744	ng/ml
56) Aroclor 1268 (2)	8.637	12262824	603.513	ng/ml
57) Aroclor 1268 (3)	8.685	10207095	608.706	ng/ml
58) Aroclor 1268 (4)	8.867	9576694	629.111	ng/ml
59) Aroclor 1268 (5)	9.081	3874868	615.533	ng/ml
60) Aroclor 1268 (6)	9.340	26141757	603.570	ng/ml
61) Aroclor 1268 - AVE	0.000	0	N.D.	ng/ml

*[Handwritten signature]*  
 12/19/19

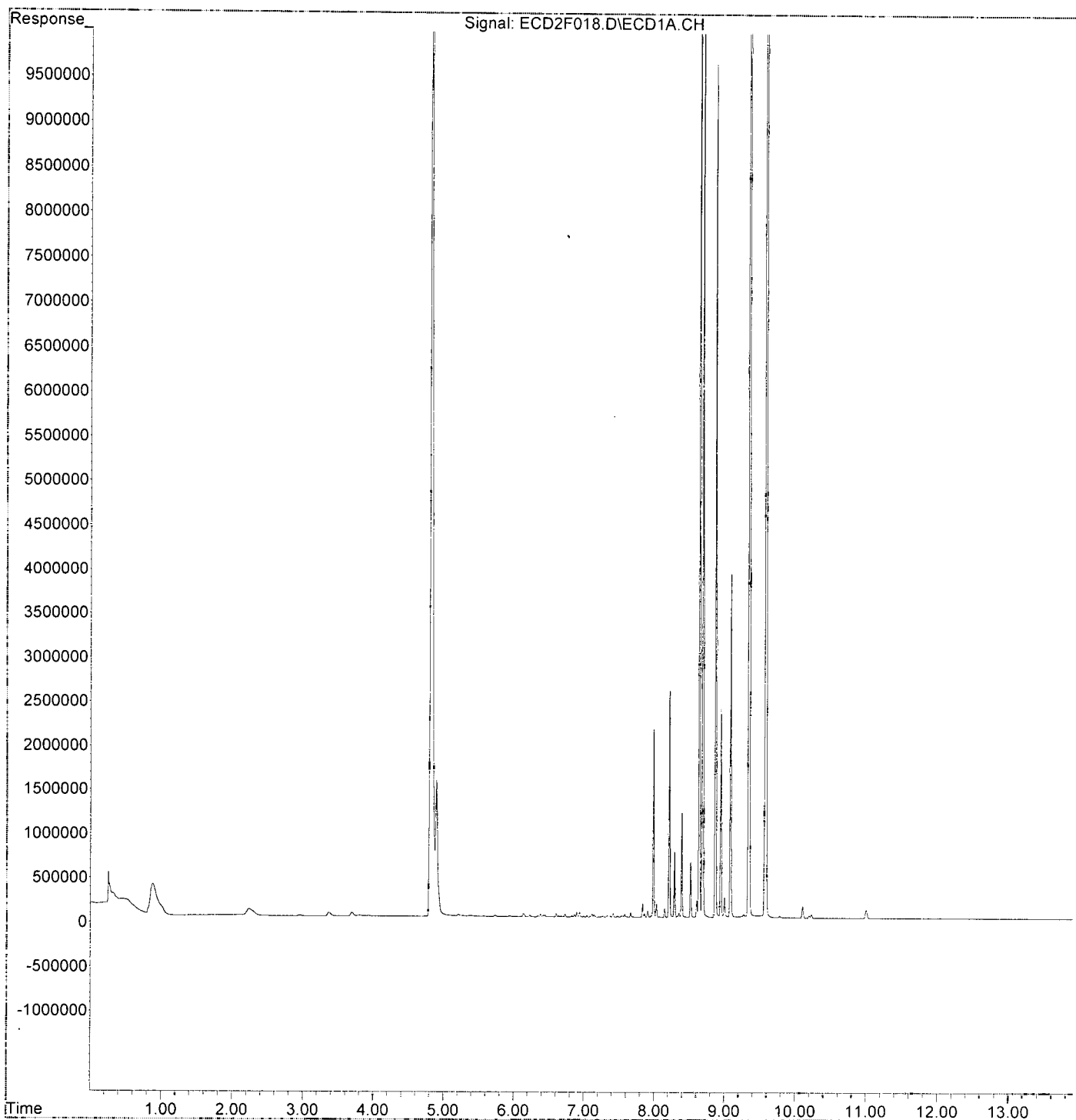
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : K:\DATA\9L03052\  
Data File : ECD2F018.D  
Signal(s) : ECD1A.CH  
Acq On : 03 Dec 2019 21:29  
Operator : MJB / KAK  
Sample : 9L03052-CALE  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Integration File: PCB1.e  
Quant Time: Dec 04 15:13:26 2019  
Quant Method : K:\METHODS\FECD2\_QUANTPCB\_191203.M  
Quant Title : PCB Data Analysis  
QLast Update : Wed Dec 04 15:13:19 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B  
Benchsheet & Analysis Sequence Data**

Batch 9120511  
Sequence 9L09034 (A9I0890-04RE1)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

DEC 13 2019

BATCH #: 9120511 (Soil)

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	2-11	>11
	9120511-BLK1	QC	11/26/19 11:20	11	10				100					
	9120511-BS1	QC	11/26/19 11:20	10	10	A19I221		100	100					
	A9J0890-03RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.14	10				100	PDI-013SC-A-02-03-190925	MDL. Use Custom Spike.			
	A9J0890-04RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.59	10				100	PDI-013SC-A-03-04-190925	MDL. Use Custom Spike.			
	A9J0033-16RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.52	10				100	PDI-024SC-A-02-03-190927	MDL. Use Custom Spike.			
	A9J0033-17RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.14	10				100	PDI-024SC-A-03-04-190927	MDL. Use Custom Spike.			
	A9J0033-26RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.02	10				100	PDI-025SC-A-02-03-190927	MDL. Use Custom Spike.			
	A9J0033-27RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.09	10				100	PDI-025SC-A-03-04-190927	MDL. Use Custom Spike.			
	A9J0033-30RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.15	10				100	PDI-030SC-A-01-02-190929	MDL. Use Custom Spike.			
	A9J0033-39RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.37	10				100	PDI-036SC-A-00-01-190929	MDL. Use Custom Spike.			
	A9J0033-40RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.08	10				100	PDI-036SC-A-01-02-190929	MDL. Use Custom Spike.			
	A9J0096-01RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.58	10				100	PDI-039SC-A-00-01-190930	MDL. Use Custom Spike.			
	A9J0096-02RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.26	10				100	PDI-039SC-A-01-02-190930	MDL. Use Custom Spike.			
	A9J0096-13RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.6	10				100	PDI-040SC-A-00-01-190930	MDL. Use Custom Spike.			
	A9J0096-14RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.28	10				100	PDI-040SC-A-01-02-190930	MDL. Use Custom Spike.			
	A9J0353-07RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.35	10				100	PDI-019SC-A-06-07-191008	MDL. Use Custom Spike.			
	A9J0353-08RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.22	10				100	PDI-019SC-A-07-08-191008	MDL. Use Custom Spike.			
	A9J0353-15RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.45	10				100	PDI-020SC-A-02-03-191008	MDL. Use Custom Spike.			
	A9J0353-16RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.28	10				100	PDI-020SC-A-03-04-191008	MDL. Use Custom Spike.			

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

MJB  
Reviewed By: \_\_\_\_\_ Date: 12/11/19



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: **9120511 (Soil)**  
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	$\frac{7}{8}$	>11
	A9J0353-30RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.54	10				100	PDI-033SC-A-04-05-191008	MDL. Use Custom Spike.			
	A9J0353-31RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.42	10				100	PDI-033SC-A-05-06-191008	MDL. Use Custom Spike.			
	A9J0360-01RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.16	10				100	PDI-016SC-A-00-01-191009	MS/MSD, MDL. Use Custom Spike.			
	9120511-MS1	QC	11/26/19 11:20	10	10	A19I221	A9J0360-01RE1	100	100					
	9120511-MSD1	QC	11/26/19 11:20	10	10	A19I221	A9J0360-01RE1	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
A19H411	08/31/21	n-Hexane Lot# 192712	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A19I263	03/18/20	DCM CHEM PROD. 194934						

From 9111220 on 12/4/2019 by ajj

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9120511 (Soil)

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	2-11	>11
2	9120511-BLKI	QC	11/26/19 11:20	11	5.0				100		1ml 2ml			
3	9120511-BSI	QC	11/26/19 11:20	10	5.0	A191221		100	100		1ml 2ml			
4	A9I0890-03RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.14	5.0				100	PDI-013SC-A-02-03-190925	MDL. Use Custom Spike.	1ml 2ml		
5	A9I0890-04RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.59	5.0				100	PDI-013SC-A-03-04-190925	MDL. Use Custom Spike.	1ml 2ml		
6	A9J0033-16RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.52	5.0				100	PDI-024SC-A-02-03-190927	MDL. Use Custom Spike.	1ml 2ml		
7	A9J0033-17RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.14	5.0				100	PDI-024SC-A-03-04-190927	MDL. Use Custom Spike.	1ml 2ml		
8	A9J0033-26RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.02	5.0				100	PDI-025SC-A-02-03-190927	MDL. Use Custom Spike.	1ml 2ml		
9	A9J0033-27RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.09	5.0				100	PDI-025SC-A-03-04-190927	MDL. Use Custom Spike.	1ml 2ml		
10	A9J0033-30RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.15	5.0				100	PDI-030SC-A-01-02-190929	MDL. Use Custom Spike.	1ml 2ml		
11	A9J0033-39RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.37	5.0				100	PDI-036SC-A-00-01-190929	MDL. Use Custom Spike.	1ml 2ml		
12	A9J0033-40RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.08	5.0				100	PDI-036SC-A-01-02-190929	MDL. Use Custom Spike.	1ml 2ml		
13	A9J0096-01RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.58	5.0				100	PDI-039SC-A-00-01-190930	MDL. Use Custom Spike.	1ml 2ml		
14	A9J0096-02RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.26	5.0				100	PDI-039SC-A-01-02-190930	MDL. Use Custom Spike.	1ml 2ml		
15	A9J0096-13RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.6	5.0				100	PDI-040SC-A-00-01-190930	MDL. Use Custom Spike.	1ml 2ml		
16	A9J0096-14RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.28	5.0				100	PDI-040SC-A-01-02-190930	MDL. Use Custom Spike.	1ml 2ml		
17	A9J0353-07RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.35	5.0				100	PDI-019SC-A-06-07-191008	MDL. Use Custom Spike.	1ml 2ml		
18	A9J0353-08RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.22	5.0				100	PDI-019SC-A-07-08-191008	MDL. Use Custom Spike.	1ml 2ml		
19	A9J0353-15RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.45	5.0				100	PDI-020SC-A-02-03-191008	MDL. Use Custom Spike.	1ml 2ml		
20	A9J0353-16RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.28	5.0				100	PDI-020SC-A-03-04-191008	MDL. Use Custom Spike.	1ml 2ml		

Prepared By: JAG Date: 12/4/19  
AGW 12/6/19  
AGW 12/8/19

Reviewed By: CAS Date: 12/06/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9120511 (Soil)

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
A	A9J0353-30RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.54	8				100	PDI-033SC-A-04-05-191008	MDL. Use Custom Spike. 1ml 2ml <del>Cryst</del>			
B	A9J0353-31RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.42	10				100	PDI-033SC-A-05-06-191008	MDL. Use Custom Spike. 1ml 2ml *			
B	A9J0360-01RE1	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.16	10				100	PDI-016SC-A-00-01-191009	MS/MSD, MDL. Use Custom Spike. 1ml 2ml *			
B	9120511-MS1	QC	11/26/19 11:20	10	8/10	A19I221	A9J0360-01RE1	100	100					
B	9120511-MSD1	QC	11/26/19 11:20	10	5/10	A19I221	A9J0360-01RE1	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
A19H411	08/31/21	n-Hexane Lot# 192712	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A19I263	03/18/20	DCM CHEM PROD. 194934						

From 9111220 on 12/4/2019 by ajj

\* = Staining and Precipitate during exchange

Prepared By: AGG Date: 12/4/19  
JAG 12/16/19

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 911220 (Soil)

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
2	911220-BLK1	QC	11/26/19 11:20	10.11	5				100					
3	911220-BS1	QC	11/26/19 11:20	10	5	A191221		100	100					
4	A9J0890-03	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.14	5				100	PDI-013SC-A-02-03-190925	MDL. Use Custom Spike. Wet sand, odor			
5	A9J0890-04	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.59	5				100	PDI-013SC-A-03-04-190925	MDL. Use Custom Spike. wet sand, odor			
6	A9J0033-16	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.52	5				100	PDI-024SC-A-02-03-190927	MDL. Use Custom Spike. wet sand, odor			
7	A9J0033-17	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.14	5				100	PDI-024SC-A-03-04-190927	MDL. Use Custom Spike. wet sand, odor			
8	A9J0033-26	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.02	5				100	PDI-025SC-A-02-03-190927	MDL. Use Custom Spike. wet sand, odor			
9	A9J0033-27	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.09	5				100	PDI-025SC-A-03-04-190927	MDL. Use Custom Spike. wet sand, odor			
10	A9J0033-30	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.15	5				100	PDI-030SC-A-01-02-190929	MDL. Use Custom Spike. wet sand, odor			
11	A9J0033-39	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.37	5				100	PDI-036SC-A-00-01-190929	MDL. Use Custom Spike. wet sand, odor			
12	A9J0033-40	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.08	5				100	PDI-036SC-A-01-02-190929	MDL. Use Custom Spike. wet sand, odor			
13	A9J0096-01	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.58	5				100	PDI-039SC-A-00-01-190930	MDL. Use Custom Spike. wet sand, odor			
14	A9J0096-02	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.26	5				100	PDI-039SC-A-01-02-190930	MDL. Use Custom Spike. wet sand, odor			
15	A9J0096-13	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.20	5				100	PDI-040SC-A-00-01-190930	MDL. Use Custom Spike. wet sand, odor			
16	A9J0096-14	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.28	5				100	PDI-040SC-A-01-02-190930	MDL. Use Custom Spike. wet sand, odor			
17	A9J0353-07	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.35	5				100	PDI-019SC-A-06-07-191008	MDL. Use Custom Spike. wet sand, odor			
18	A9J0353-08	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.22	5				100	PDI-019SC-A-07-08-191008	MDL. Use Custom Spike. wet sand, odor			
19	A9J0353-15	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.45	5				100	PDI-020SC-A-02-03-191008	MDL. Use Custom Spike. wet sand, odor			
20	A9J0353-16	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10.28	5				100	PDI-020SC-A-03-04-191008	MDL. Use Custom Spike. wet sand, odor			

Prepared By: JAG Date: 11/26/19  
ADD 11/26/19

Reviewed By: CAH Date: 11/26/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 911220 (Soil)

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	>11
21	A9J0353-30	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10 10.54	5 ✓				100	PDI-033SC-A-04-05-191008	MDL. Use Custom Spike. Wet sand odor			
22	A9J0353-31	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10 10.42	5 ✓				100	PDI-033SC-A-05-06-191008	MDL. Use Custom Spike. Wet sand odor			
23	A9J0360-01	A 8081B 2,4+4,4-DDx Only (+Add)	11/26/19 11:20	10 10.16	5 ✓				100	PDI-016SC-A-00-01-191009	MS/MSD, MDL. Use Custom Spike. mud odor			
24	9111220-MS1	QC	11/26/19 11:20	10 10.19	5 ✓	A191221	A9J0360-01	100	100		mud odor			
25	9111220-MSD1	QC	11/26/19 11:21	10 10.18	5 ✓	A191221	A9J0360-01	100	100		mud odor			

**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	A191221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool	JAG			JAG		
A191263	03/18/20	DCM CHEM PROD. 194934						
A19K010	10/29/25	Sodium Sulfate Lot # 188777						

Method 3546 digestion time and temperture achieved.

Initial: AW yes

Witness: AW 11/26/19

Prepared By: JAG Date: 11/26/19

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

AW 11/26/19



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L09034**

Instrument: **DUALECD5**

Date: **12/09/19 10:42**

Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L09034-BKD1	Sediment	QC	QC				
2	9L09034-BKD2	Sediment	QC	QC				A19J201
3	9L09034-CCV1	Sediment	QC	QC				A19J201
4	9L09034-CCV2	Sediment	QC	QC				A19K133
5	9L09034-CCB1	Sediment	QC	QC				A19J408
6	9120511-BLK1	Soil	QC	QC				A19L018
7	9120511-BS1	Soil	QC	QC		9120511		
8	A9J0033-27RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
9	A9J0033-30RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
10	A9J0096-01RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
11	A9J0096-02RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
12	A9J0353-07RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
13	A9J0353-08RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
14	A9J0353-16RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
15	A9J0353-31RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
16	9L09034-CCV3	Sediment	QC	QC				A19K134
17	9L09034-CCV4	Sediment	QC	QC				A19J409
18	9L09034-CCB2	Sediment	QC	QC				A19L018
19	A9J0033-39RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
20	9L09034-IBL1	Sediment	QC	QC				
21	A9J0096-14RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
22	9L09034-IBL2	Sediment	QC	QC				
23	A9J0353-15RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
24	9L09034-IBL3	Sediment	QC	QC				
25	A9J0353-30RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
26	9L09034-IBL4	Sediment	QC	QC				
27	A9I0890-04RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
28	9L09034-IBL5	Sediment	QC	QC				
29	A9J0033-26RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
30	9L09034-IBL6	Sediment	QC	QC				
31	A9J0096-13RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
32	9L09034-IBL7	Sediment	QC	QC				
33	A9J0033-17RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
34	9L09034-IBL8	Sediment	QC	QC				
35	9L09034-CCV5	Sediment	QC	QC				A19K133
36	9L09034-CCV6	Sediment	QC	QC				A19J408
37	9L09034-CCB3	Sediment	QC	QC				A19L018
38	9L09034-IBL9	Sediment	QC	QC				

Data Entered By: MJP 12/10/19

Comments:

Data Reviewed By: MJA 12/10/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L09034\  
 Data File : ECD5-12091903.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 11:28  
 Operator : MJB  
 Sample : 9L09034-BKD1  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:49:38 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.364	1327717	NoCal	ng/mL
2) Endrin	7.722	66197897	NoCal	ng/mL
3) 4,4'-DDD	7.782	9537231	NoCal	ng/mL
4) 4,4'-DDT	7.977	110917722	NoCal	ng/mL
5) Endrin Aldehyde	8.165	4891061	NoCal	ng/mL
6) Endrin Ketone	8.655	7871926	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.122	2409687	NoCal	ng/mL
9) Endrin [2C]	8.479	98445344	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.535	15634044	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.863	7309106	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.757	159941782	NoCal	ng/mL
13) Endrin Ketone [2C]	9.445	10969289	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

(m)=manual int.

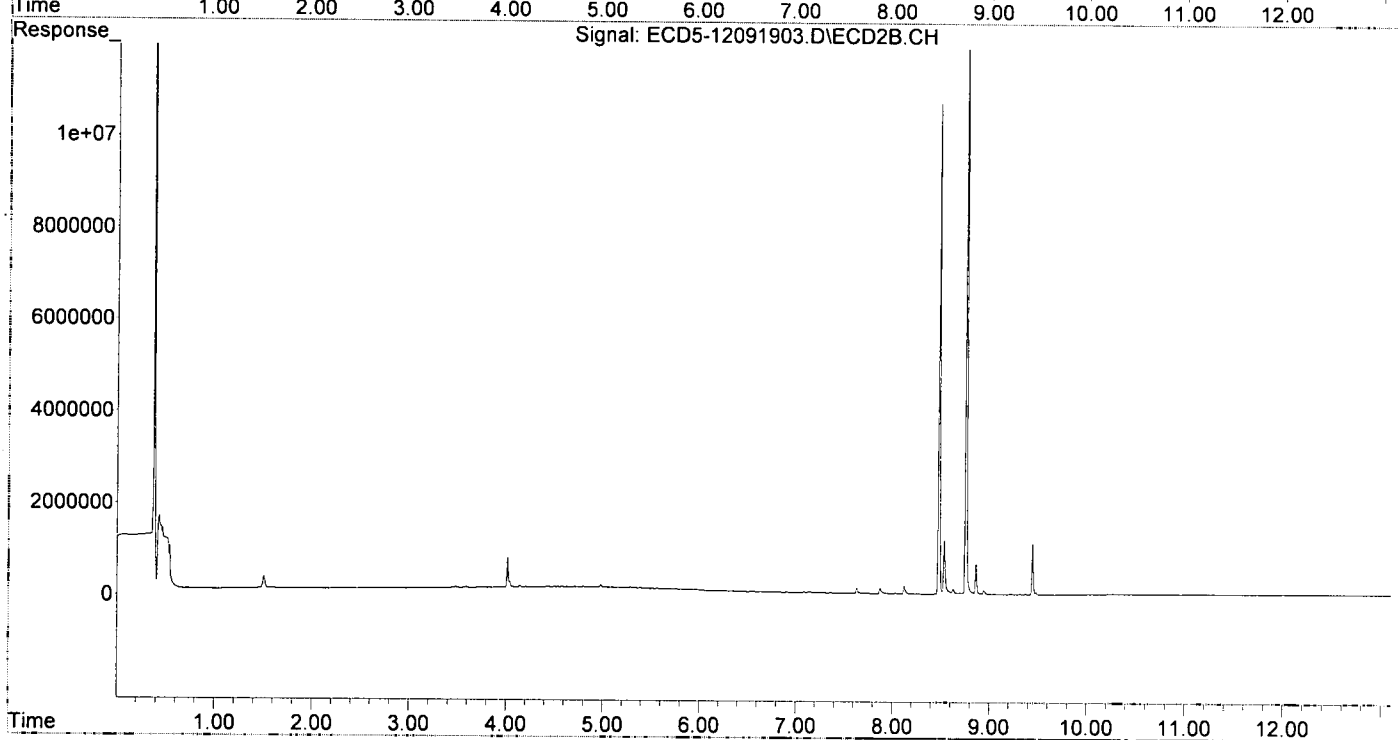
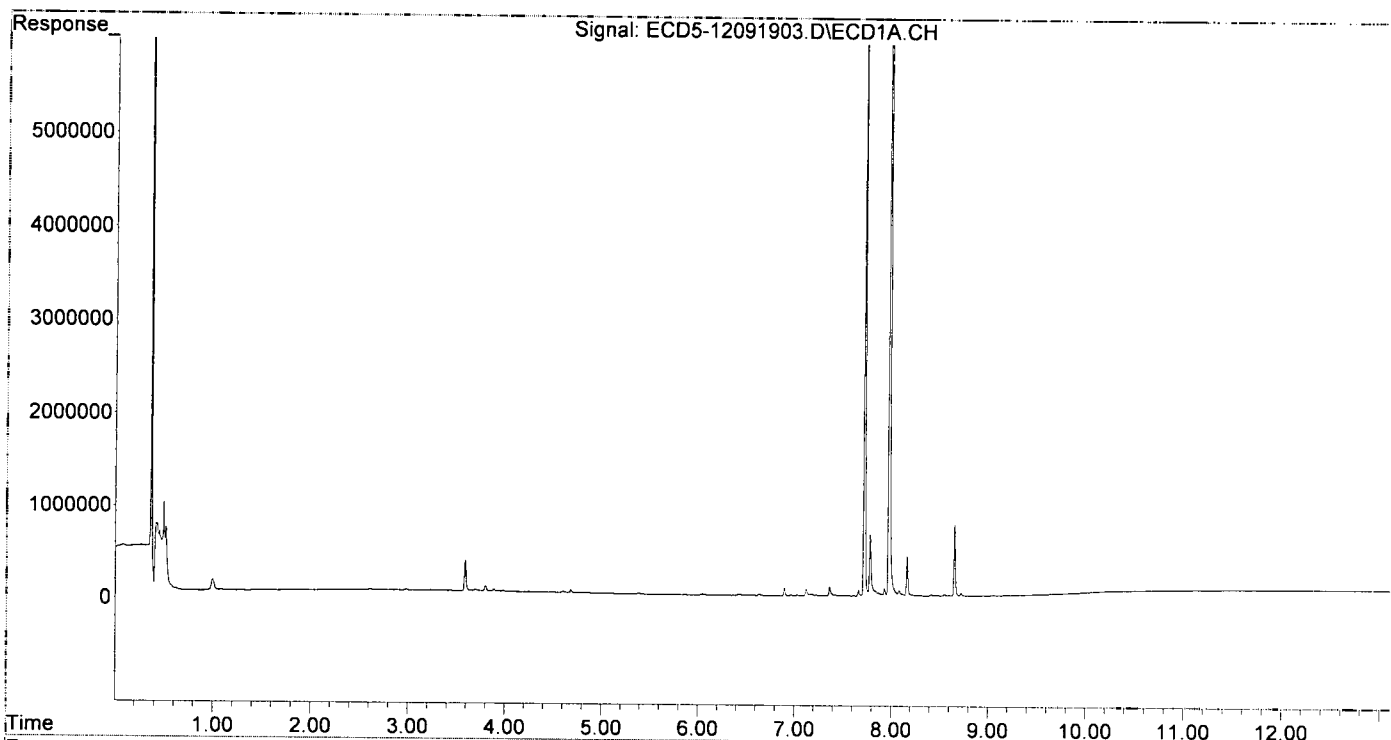
*Breakdown failed. maintenance performed.*

*MJB 12/19/19*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L09034\  
Data File : ECD5-12091903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 11:28  
Operator : MJB  
Sample : 9L09034-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:49:38 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Pesticide BKD

**Pesticide Breakdown Check (Validated 8/8/2013)**

Sequence: 9L09034 BKD2  
Data File: ECD5-12091905.D

First Column Area Counts		Percent Breakdown	
DDE	740303		
DDD	8107460		
DDT	134594085	6.17	PASS
Endrin	81173762	9.60	PASS
Endrin Aldehyde	2493509		
Endrin Ketone	6130510		

Second Column Area Counts		Percent Breakdown	
DDE	1487047		
DDD	13223493		
DDT	190684974	7.16	PASS
Endrin	119564269	9.62	PASS
Endrin Aldehyde	3604864		
Endrin Ketone	9115389		

Breakdown must be less than 15% to accept sample data.

*MP*  
*12/9/19*

Data Path : C:\msdchem\4\data\2019-12\9L09034\  
 Data File : ECD5-12091905.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 12:15  
 Operator : MJB  
 Sample : 9L09034-BKD2  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:49:57 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.367	740303	NoCal	ng/mL
2) Endrin	7.725	81173762	NoCal	ng/mL
3) 4,4'-DDD	7.784	8107460	NoCal	ng/mL
4) 4,4'-DDT	7.980	134594085	NoCal	ng/mL
5) Endrin Aldehyde	8.168	2493509	NoCal	ng/mL
6) Endrin Ketone	8.659	6130510	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.125	1487047	NoCal	ng/mL
9) Endrin [2C]	8.483	119564269	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.537	13223493	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.866	3604864	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.760	190684974	NoCal	ng/mL
13) Endrin Ketone [2C]	9.449	9115389	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

(m)=manual int.

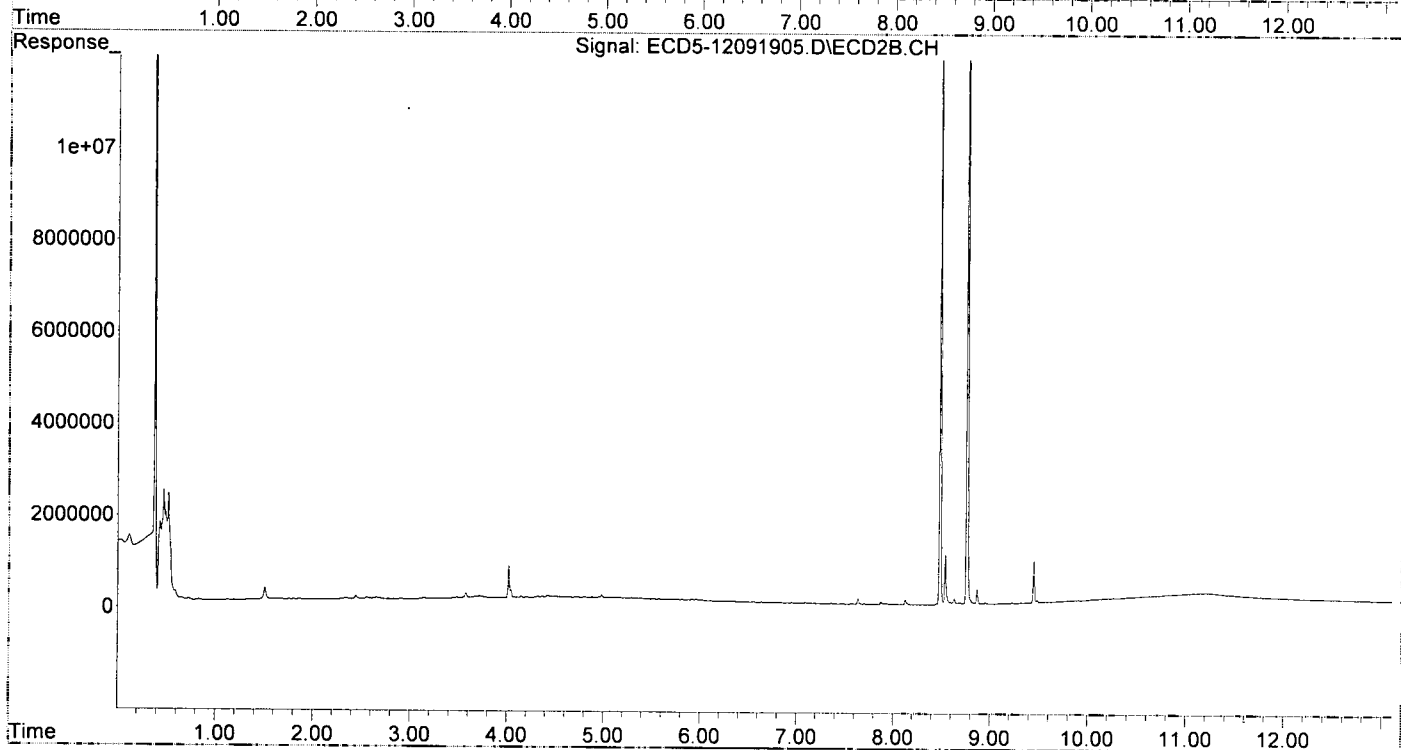
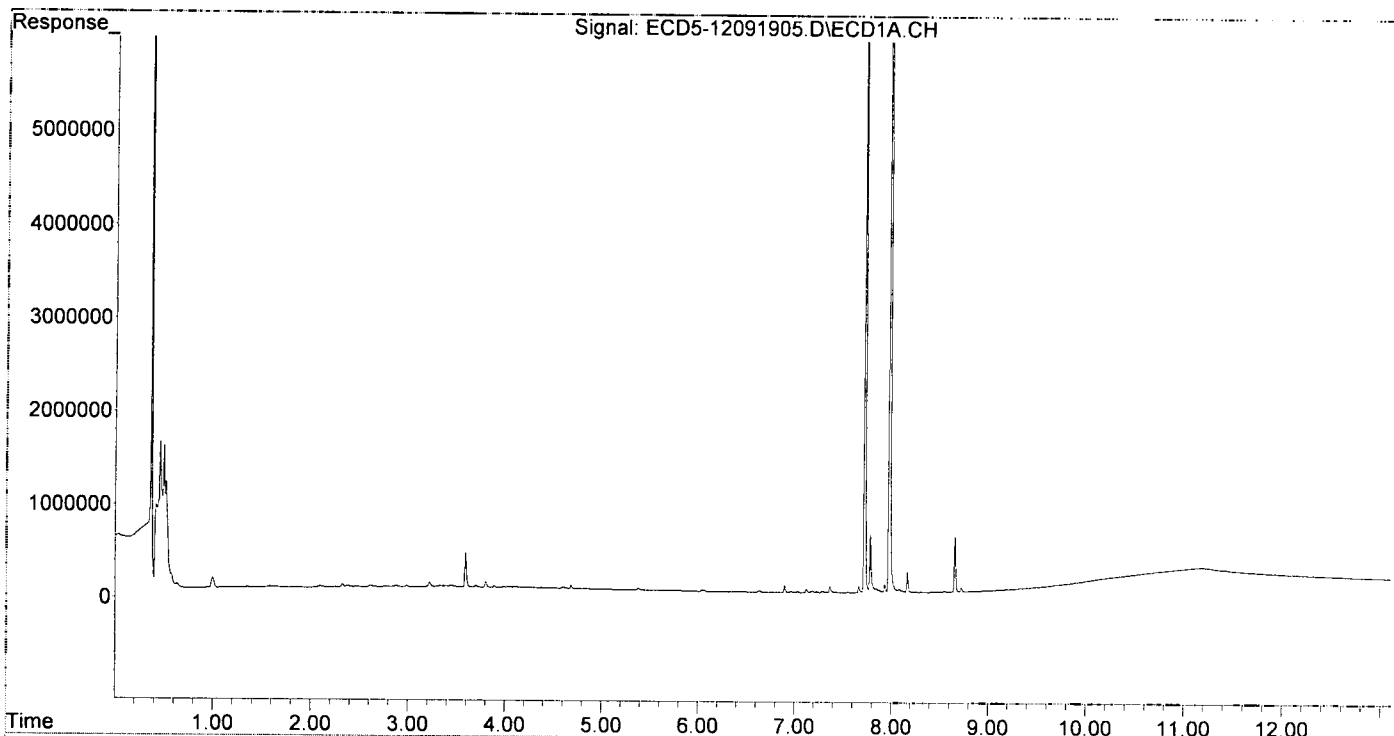
*Subbed in let w/ Hexane.*

*MJB 12/9/19*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L09034\  
Data File : ECD5-12091905.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 12:15  
Operator : MJB  
Sample : 9L09034-BKD2  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:49:57 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091906.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 12:33  
 Operator : MJB  
 Sample : 9L09034-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:54:24 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

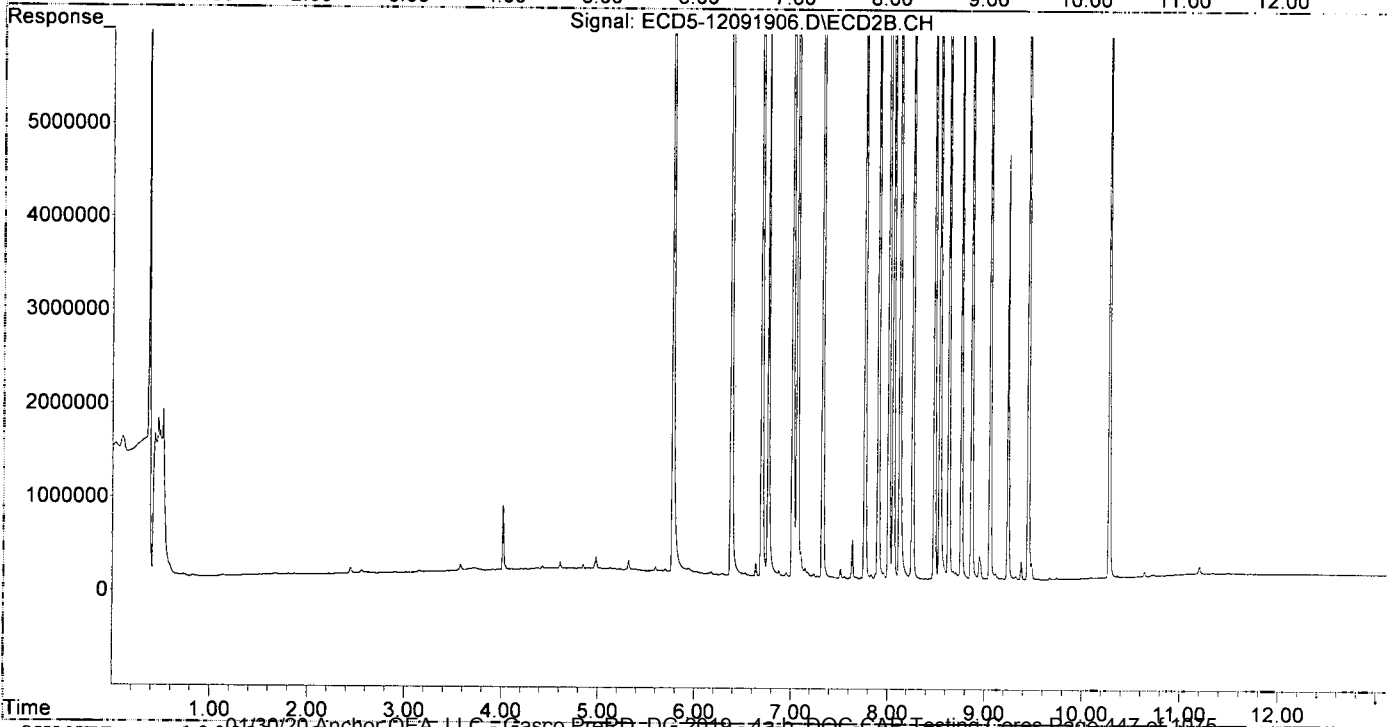
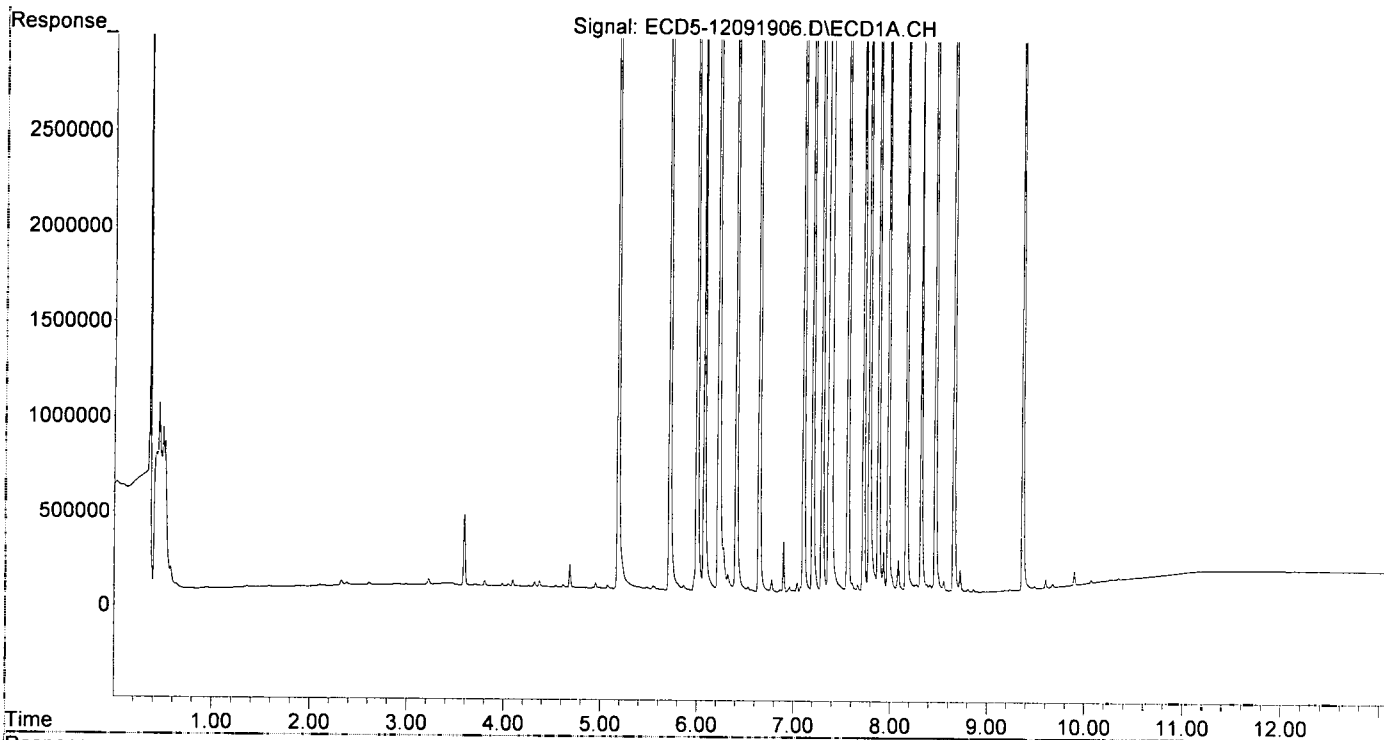
MJB  
12/9/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.182	5.772	8391584	14203318	50.559	48.415
22) S DCBP (S)	9.366	10.278	6790841	9853418	48.128	54.813
Target Compounds						
2) a-BHC	5.716	6.378	12411475	22050504	54.121	53.737
3) g-BHC	5.997	6.694	10650673	18389699	52.784	51.555
4) b-BHC	6.073	6.762	3895660	7212051	43.101	45.569
5) Heptachlor	6.405	7.062	10102639	17008315	55.724	55.587
6) d-BHC	6.221	7.013	8845875	16905249	44.974	47.936
7) Aldrin	6.644	7.324	10102841	18013777	51.168	54.688
8) Heptachlo...	7.103	7.762	9411512	15520994	51.100	51.591
9) trans-Chl...	7.198	7.901	9665451	15677747	52.276	50.037
10) cis-Chlor...	7.295	8.009	9341470	15351603	51.307	52.710
11) Endosulfa...	7.388	8.056	9346146	14602720	54.919	53.067
12) 4,4'-DDE	7.365	8.122	8882774	15227953	47.116	49.015
13) Dieldrin	7.560	8.256	10217375	16444504	53.221	54.067
14) Endrin	7.723	8.481	8467644	13024795	57.592	57.676
15) 4,4'-DDD	7.782	8.535	7399741	11632409	47.090	45.401
16) Endosulfa...	7.878	8.628	7880426	12476820	54.873	54.104
17) 4,4'-DDT	7.979	8.758	6621914	9741276	55.386	51.655
18) Endrin Al...	8.166	8.865	6457515	10523073	52.566	53.363
19) Endosulfa...	8.466	9.055	7724112	11781971	49.840	47.301
20) Methoxychlor	8.319	9.239	3135463	4552829	53.530	50.701
21) Endrin Ke...	8.658	9.448	8797998	13399850	52.759	52.075
23) Hexachlor...	2.989	3.486	3928	7054	0.021	0.019
24) Hexachlor...	5.548	0.000	18223	0	0.103	N.D. #
25) Oxylordane	7.039	7.676	47771	15440	0.290	0.056 #
26) 2,4'-DDE	7.103	7.901	9411512	15677747	73.378	73.903
27) trans-Non...	7.295	7.958	9341470	65447	51.854	0.217 #
28) 2,4'-DDD	0.000	8.256	0	16444504	N.D.	87.071 #
29) 2,4'-DDT	7.665	8.481	37652	13024795	0.343	73.034 #
30) cis-Nonac...	7.782f	8.535	7399741	11632409	35.642	34.677
31) Mirex	8.412	9.448	38014	13399850	0.303	72.014 #
32) Chlordane...	0.000	7.958	0	65447	N.D.	1.809 #
33) Chlordane...	7.365f	8.056	8882774	14602720	354.400	480.921
34) Chlordane...	7.878	8.706	7880426	71255	1363.131	7.947 #
35) Chlordane...	3.441f	3.441	12426	7035	NoCal	NoCal
36) Toxaphene...	7.295f	8.256f	9341470	16444504	10429.852	6266.344
37) Toxaphene...	0.000	8.628	0	12476820	N.D.	3791.165 #
38) Toxaphene...	7.932	8.678	213136	86689	63.292	17.104 #
39) Toxaphene...	8.166	8.758f	6457515	9741276	1992.966	1166.643 #
40) Toxaphene...	8.412f	8.945f	38014	246602	15.858	52.915 #
41) Toxaphene...	8.466	9.322f	7724112	31973	2440.799	6.731 #
42) Toxaphene...	3.441f	3.441	12426	7035	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091906.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 12:33  
Operator : MJB  
Sample : 9L09034-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:54:24 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 12:50  
 Operator : MJB  
 Sample : 9L09034-CCV2  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:54:31 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/9/19*

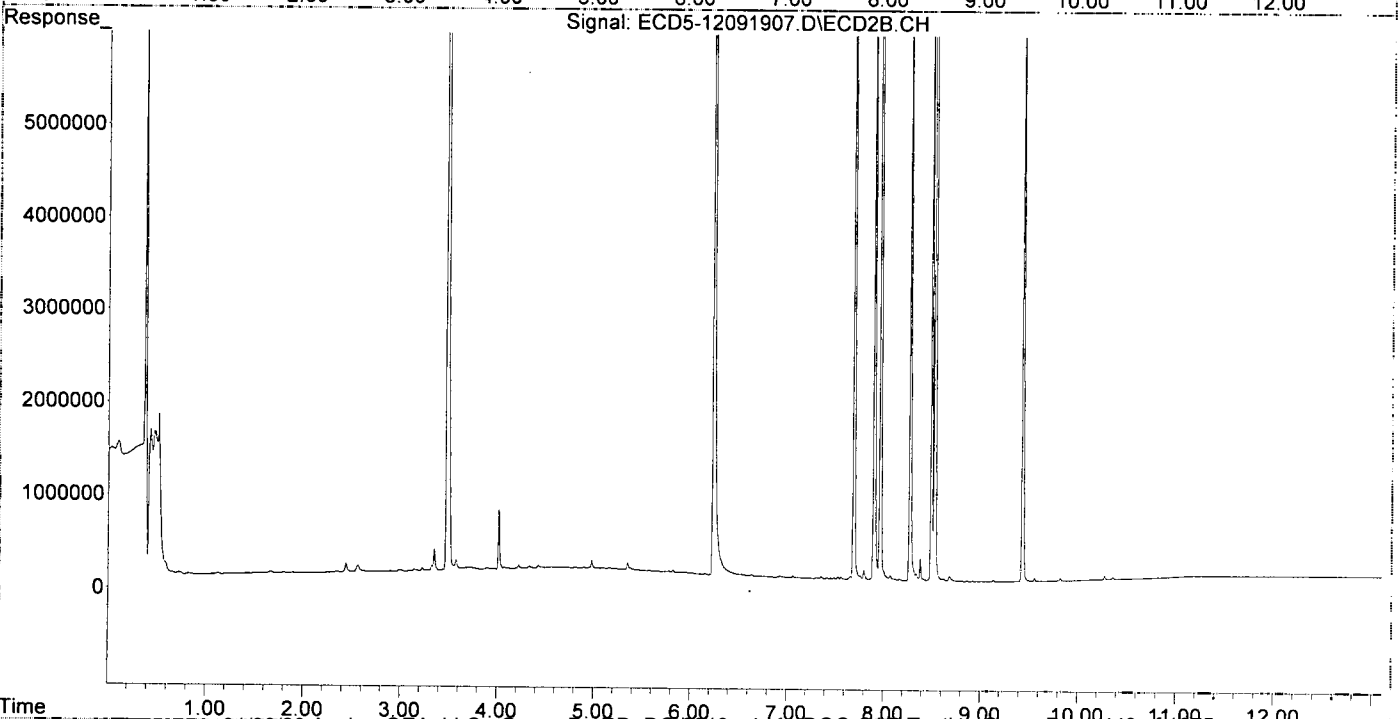
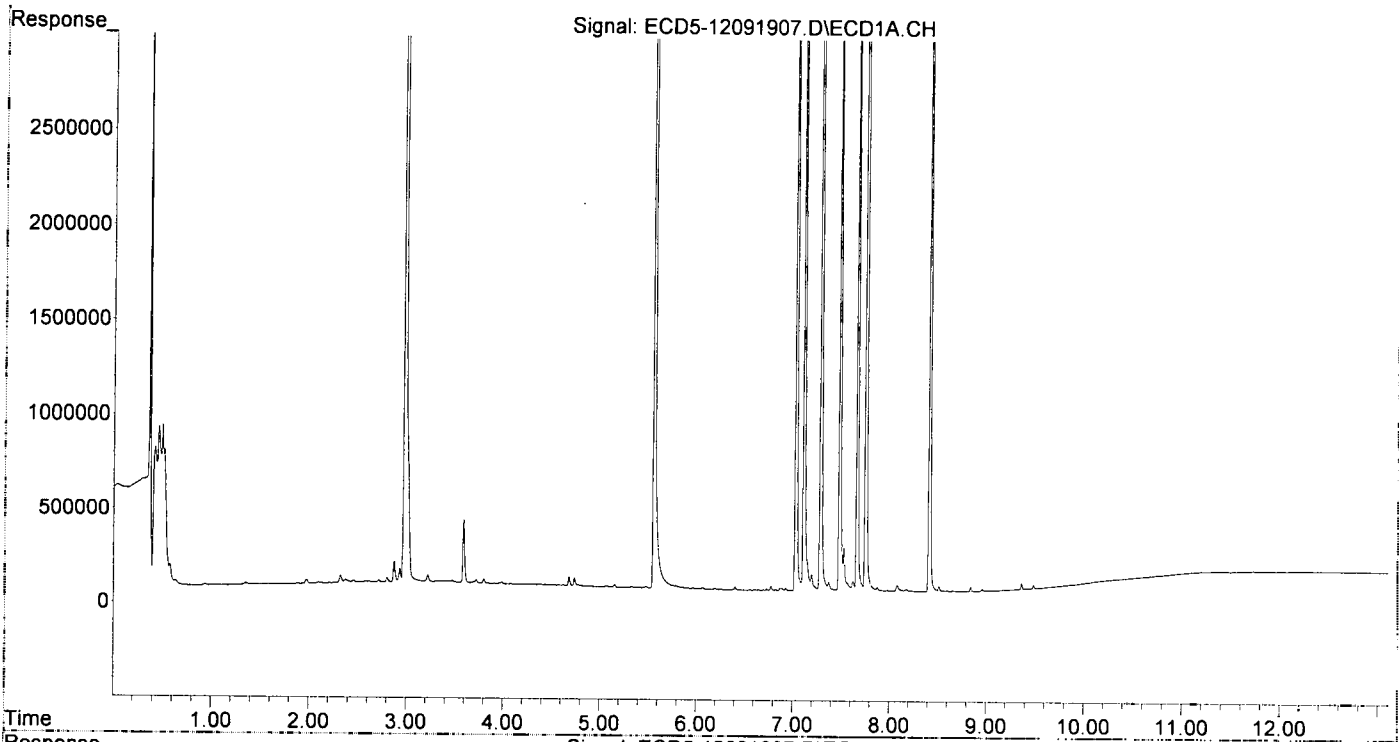
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.155f	0.000	15593	0	0.094	N.D.	#
22) S DCBP (S)	9.366	10.277	31563	38186	0.224	0.212	
Target Compounds							
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4) b-BHC	6.066	0.000	8950	0	0.099	N.D.	#
5) Heptachlor	6.404	7.062	15479	20040	0.085	0.065	
6) d-BHC	6.192f	0.000	6971	0	0.035	N.D.	#
7) Aldrin	6.606f	7.307	4430	7878	0.022	0.024	
8) Heptachlo...	7.114	7.760	5307320	43828	28.816	0.146	#
9) trans-Chl...	7.196	7.900	88064	9075696	0.476	28.966	#
10) cis-Chlor...	7.288	0.000	8403434	0	46.155	N.D.	#
11) Endosulfa...	7.374	8.072	45985	53496	0.270	0.194	
12) 4,4'-DDE	7.374	0.000	45985	0	0.244	N.D.	#
13) Dieldrin	7.530f	8.271	231472	7658394	1.206	25.180	#
14) Endrin	7.755f	8.492	9606848	7819251	65.341	34.625	#
15) 4,4'-DDD	7.755f	8.527	9606848	15225346	61.135	59.424	
16) Endosulfa...	7.875	8.616	19459	19461	0.135	0.084	
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18) Endrin Al...	8.178	0.000	11284	0	BelowCal	N.D.	
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21) Endrin Ke...	0.000	9.433	0	8230147	N.D.	31.985	#
23) Hexachlor...	2.982	3.480	8459872	18571367	46.295	49.401	
24) Hexachlor...	5.560	6.237	8827766	14916708	50.074	47.492	
25) Oxychlorthane	7.031	7.692	7434154	12422458	45.182	45.354	
26) 2,4'-DDE	7.114	7.900	5307320	9075696	41.379	42.782	
27) trans-Non...	7.288	7.965	8403434	13721456	46.613	45.490	
28) 2,4'-DDD	7.483	8.271	4768648	7658394	41.784	40.550	
29) 2,4'-DDT	7.666	8.492	5220334	7819251	47.593	43.845	
30) cis-Nonac...	7.755	8.527	9606848	15225346	46.272	45.388	
31) Mirex	8.413	9.433	5584480	8230147	44.545	44.231	
32) Chlordane...	0.000	7.965	0	13721456	N.D.	379.207	#
33) Chlordane...	7.374f	8.072	45985	53496	1.835	1.762	
34) Chlordane...	7.875	8.683f	19459	47860	3.366	5.338	#
35) Chlordane...	3.476	3.443	15736	11050	NoCal	NoCal	
36) Toxaphene...	7.288f	8.271	8403434	7658394	9382.525	2918.308	#
37) Toxaphene...	7.624	8.616	48240	19461	29.871	5.913	#
38) Toxaphene...	0.000	8.683	0	47860	N.D.	9.443	#
39) Toxaphene...	8.178	0.000	11284	0	3.483	N.D.	#
40) Toxaphene...	8.413f	0.000	5584480	0	2329.641	N.D.	#
41) Toxaphene...	8.413f	0.000	5584480	0	1764.681	N.D.	#
42) Toxaphene...	3.476	3.443	15736	11050	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 12:50  
Operator : MJB  
Sample : 9L09034-CCV2  
Misc : A19J408, 9-42 50 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:54:31 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091908.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 13:07  
 Operator : MJB  
 Sample : 9L09034-CCB1  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:54:38 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/9/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.181	5.772	16882568	30186373	101.717	102.896
22) S DCBP (S)	9.365	10.277	14087235	19870450	99.840	110.537
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.067	0.000	7189	0	0.080	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.643	7.358f	4124	25429	0.021	0.077 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.188	7.931f	16510	16480	0.089	0.053 #
10) cis-Chlor...	7.290	0.000	11746	0	0.065	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	8.490	0	6029	N.D.	0.027 #
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.875	8.617	10251	13109	0.071	0.057
17) 4,4'-DDT	0.000	8.774	0	7153	N.D.	0.003 #
18) Endrin Al...	8.163	0.000	6145	0	BelowCal	N.D.
19) Endosulfa...	0.000	9.035	0	6649	N.D.	0.027 #
20) Methoxychlor	8.307	0.000	6483	0	0.111	N.D. #
21) Endrin Ke...	0.000	9.462	0	12903	N.D.	0.050 #
23) Hexachlor...	2.987	3.490	2823	6937	0.015	0.018
24) Hexachlor...	5.560	0.000	19896	0	0.113	N.D. #
25) Oxychlor dane	7.032	7.658f	9489	15731	0.058	0.057
26) 2,4'-DDE	0.000	7.931f	0	16480	N.D.	0.078 #
27) trans-Non...	7.290	7.931f	11746	16480	87346.635	0.055 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.644f	8.490	3766	6029	0.034	0.034
30) cis-Nonac...	0.000	8.490f	0	6029	N.D.	0.018 #
31) Mirex	8.422	9.462f	14453	12903	0.115	0.069
32) Chlordane...	0.000	7.931f	0	16480	N.D.	0.455 #
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.875	8.683f	10251	53351	1.773	5.950 #
35) Chlordane...	3.441f	3.439	8996	9377	NoCal	NoCal
36) Toxaphene...	7.290f	0.000	11746	0	13.115	N.D. #
37) Toxaphene...	7.644f	8.617	3766	13109	2.332	3.983 #
38) Toxaphene...	7.903	8.683	4277	53351	1.270	10.526 #
39) Toxaphene...	8.163	8.774f	6145	7153	1.897	0.857 #
40) Toxaphene...	8.422f	0.000	14453	0	6.029	N.D. #
41) Toxaphene...	8.422f	9.304	14453	22750	4.567	4.789
42) Toxaphene...	3.441f	3.439	8996	9377	NoCal	NoCal

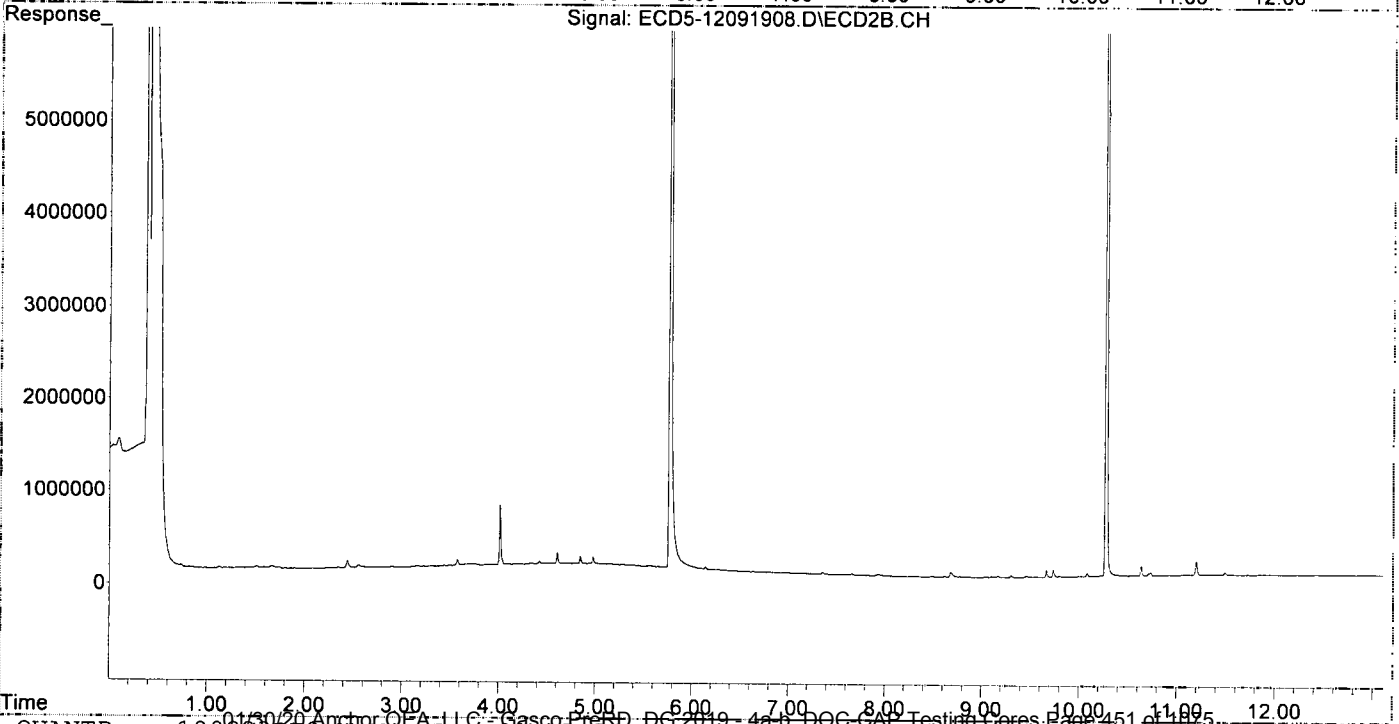
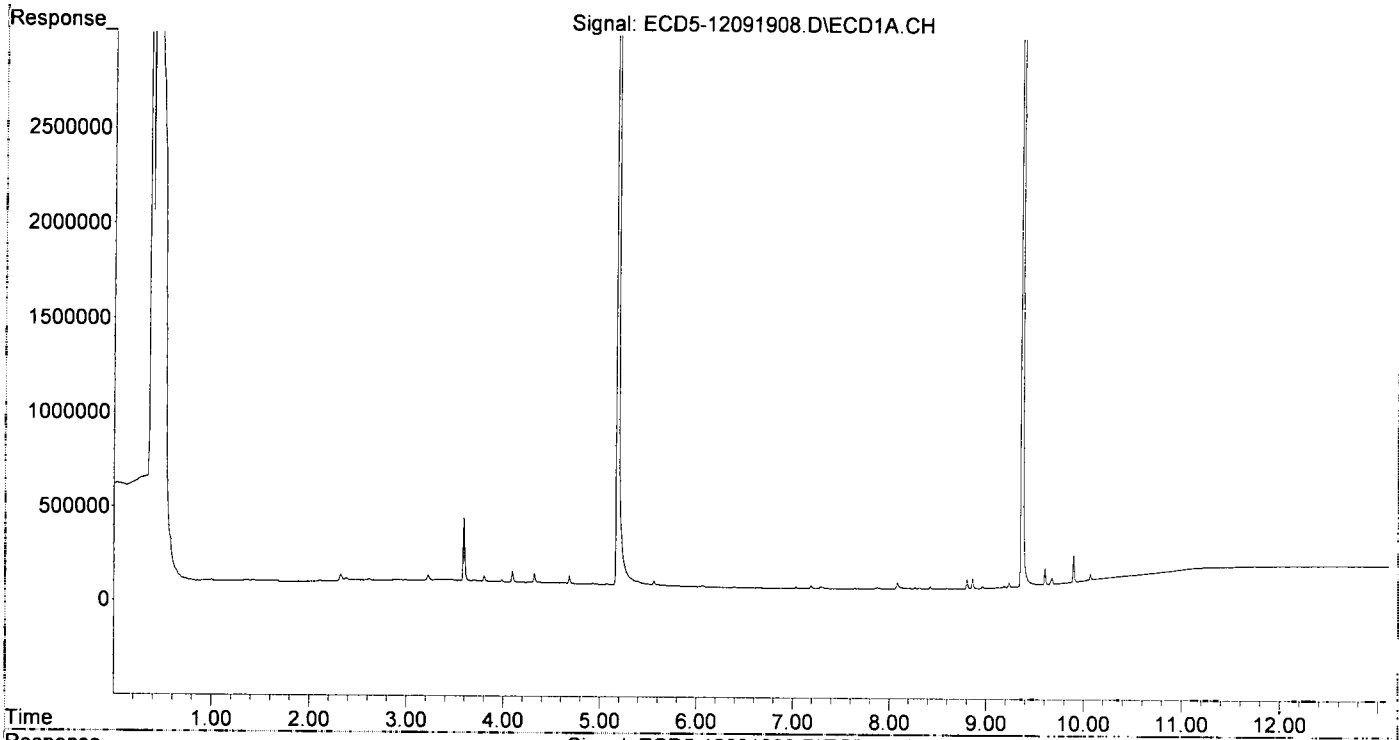
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 13:07  
Operator : MJB  
Sample : 9L09034-CCB1  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:54:38 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091909.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 13:24  
 Operator : MJB  
 Sample : 9120511-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 16:00:29 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*WB 12/9/19*

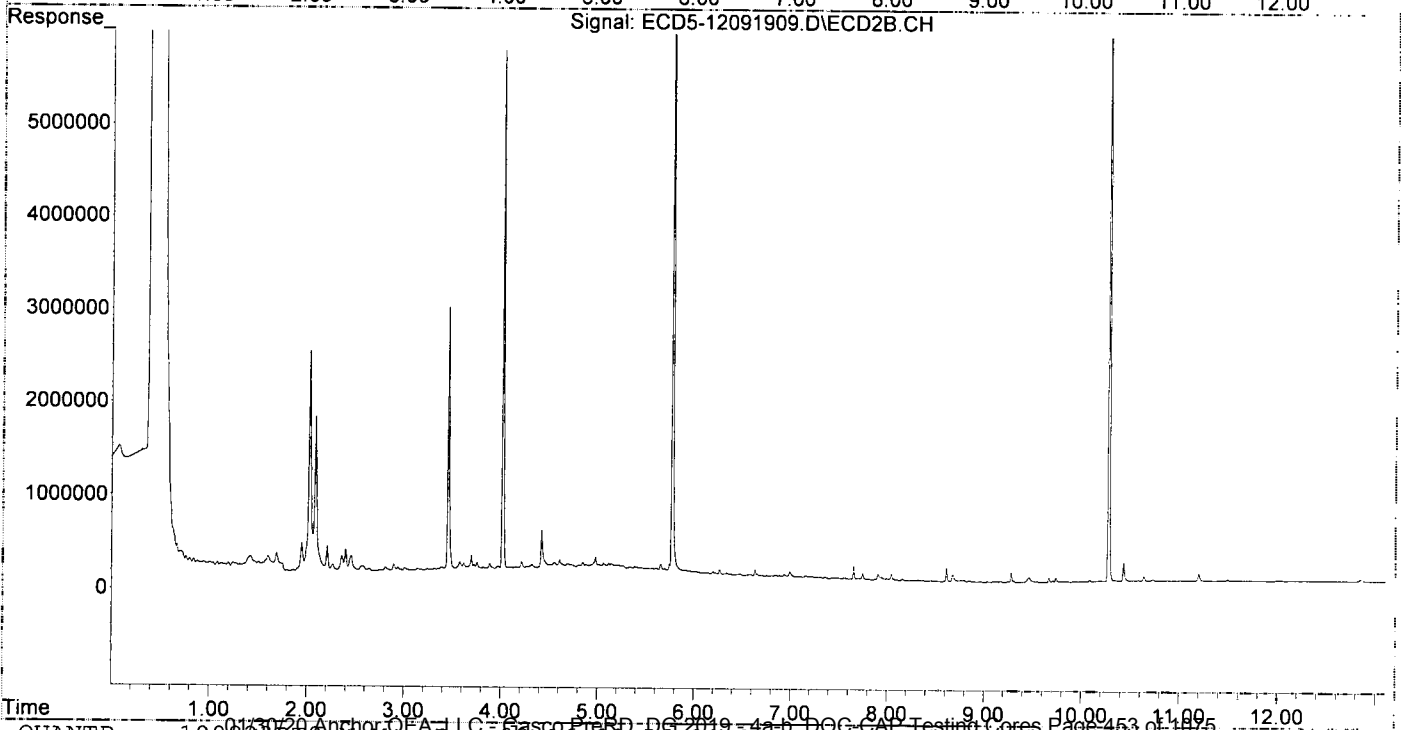
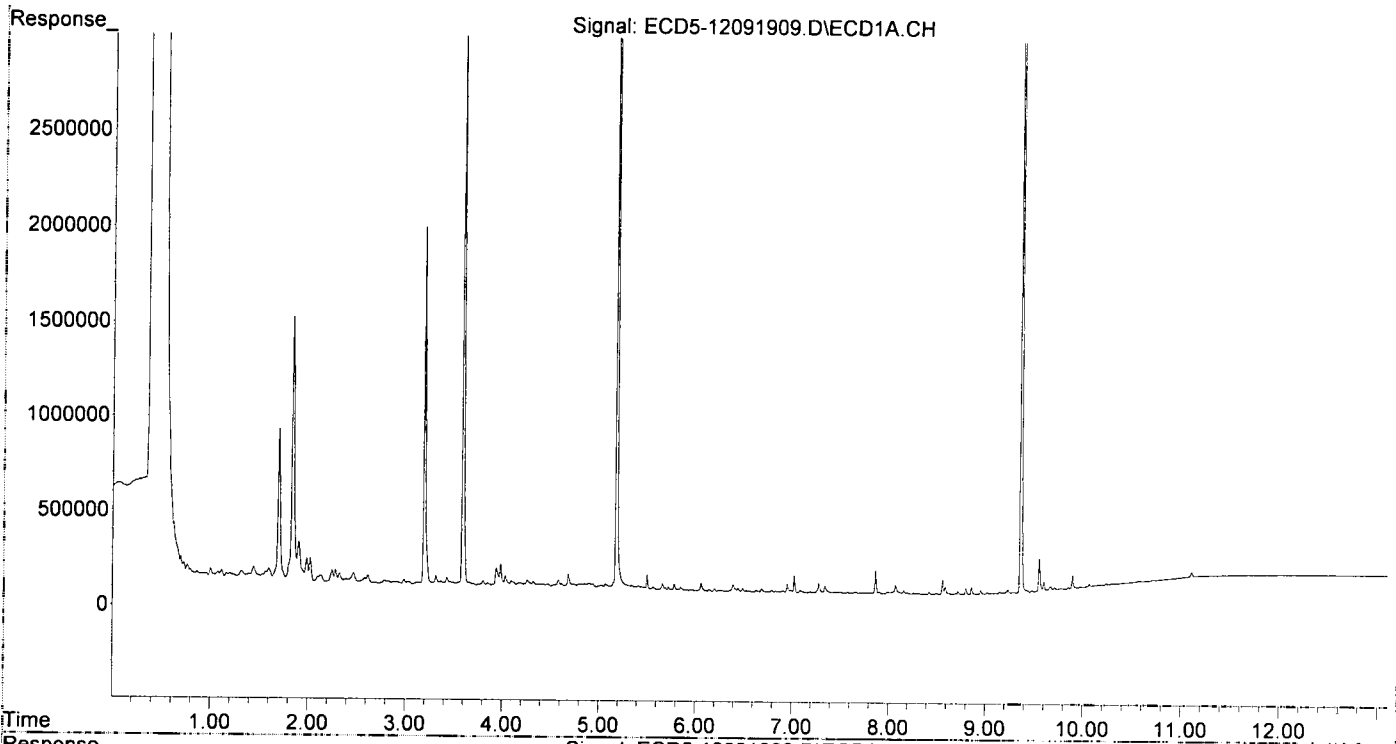
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.182	5.772	5284447	9270785	31.839	31.601
22) S DCBP (S)	9.365	10.277	6069188	8168671	43.014	45.441
Target Compounds						
2) a-BHC	5.722	6.338f	17661	18926	0.077	0.046 #
3) g-BHC	0.000	6.656f	0	20276	N.D.	0.057 #
4) b-BHC	6.062	6.753	42040	8669	0.465	0.055 #
5) Heptachlor	6.393	0.000	37370	0	0.206	N.D. #
6) d-BHC	6.200f	6.994	12966	55426	0.066	0.157 #
7) Aldrin	6.632	7.312	11257	6337	0.057	0.019 #
8) Heptachlo...	7.088	7.748	12327	62196	0.067	0.207 #
9) trans-Chl...	7.189	7.907	5530	58851	0.030	0.188 #
10) cis-Chlor...	7.281	8.044f	49741	66509	0.273	0.228
11) Endosulfa...	0.000	8.044	0	66509	N.D.	0.242 #
12) 4,4'-DDE	7.344f	8.104	35287	5975	0.187	0.019m#
13) Dieldrin	7.579	0.000	6903	0	0.036	N.D. #
14) Endrin	0.000	0.000	0	0	N.D.	N.D. #
15) 4,4'-DDD	7.795	0.000	4600	0	0.029	N.D. #
16) Endosulfa...	7.870	8.614	121583	149382	0.847	0.648
17) 4,4'-DDT	7.990	8.763	11245	15268	0.094	0.051 #
18) Endrin Al...	8.159	8.854	17276	11427	BelowCal	BelowCal
19) Endosulfa...	8.488f	9.036	4136	4780	0.027	0.019
20) Methoxychlor	8.315	9.249	5041	6792	0.086	BelowCal #
21) Endrin Ke...	8.696f	9.461	4401	47549	0.026	0.185 #
23) Hexachlor...	2.986	3.454f	22517	2814534	0.123	7.487 #
24) Hexachlor...	5.561	6.223	14991	11321	0.085	0.036 #
25) Oxychlorane	7.027	7.699	90573	14372	0.550	0.052 #
26) 2,4'-DDE	7.088f	7.907	12327	58851	0.096	0.277 #
27) trans-Non...	7.281	7.946	49741	27411	87346.423	0.091 #
28) 2,4'-DDD	7.502	0.000	5857	0	0.051	N.D. #
29) 2,4'-DDT	7.664	0.000	7334	0	0.067	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D. #
31) Mirex	8.421	9.461f	12748	47549	0.102	0.256 #
32) Chlordane...	7.281f	7.946	49741	27411	2.526	0.758 #
33) Chlordane...	7.344	8.044	35287	66509	1.408	2.190 #
34) Chlordane...	7.870	0.000	121583	0	21.031	N.D. #
35) Chlordane...	0.000	3.454	0	2814534	N.D.	NoCal
36) Toxaphene...	7.344f	8.323f	35287	12200	39.398	4.649 #
37) Toxaphene...	7.579f	8.614f	6903	149382	4.275	45.391 #
38) Toxaphene...	7.908	8.676	7064	73615	2.098	14.524 #
39) Toxaphene...	8.159	8.763f	17276	15268	5.332	1.829 #
40) Toxaphene...	8.421f	0.000	12748	0	5.318	N.D. #
41) Toxaphene...	8.421f	9.279	12748	106480	4.028	22.416 #
42) Toxaphene...	0.000	3.454	0	2814534	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 13:24  
Operator : MJB  
Sample : 9120511-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

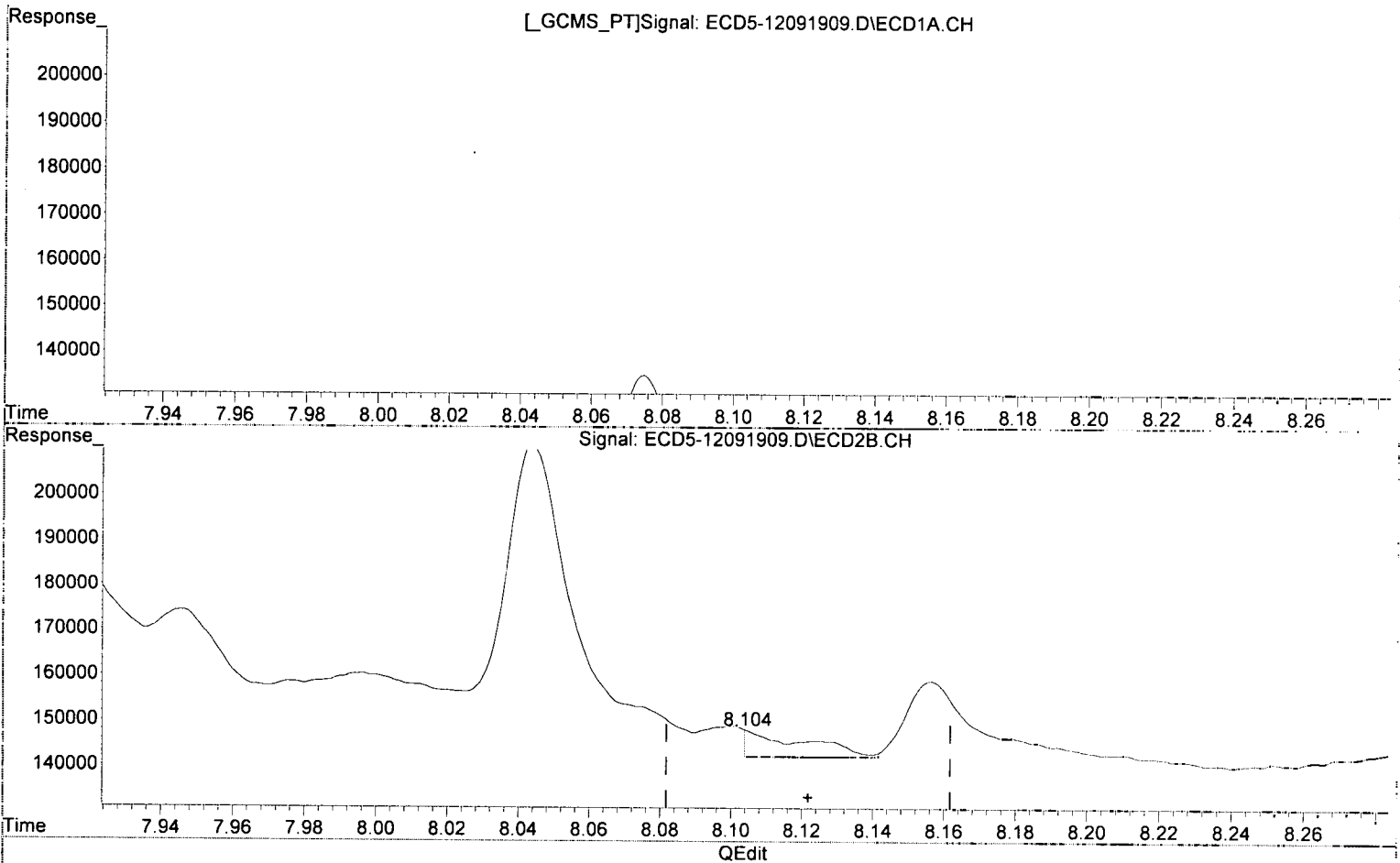
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 16:00:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 13:24  
Operator : MJB  
Sample : 9120511-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:54:45 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.344min 0.187 ng/mL  
response 35287

*MJB*  
*12/9/19*

(12) 4,4'-DDE #2  
8.104min 0.019 ng/mL (m)  
response 5975

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091909.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 13:24  
 Operator : MJB  
 Sample : 9120511-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:54:45 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*MJB*  
*12/9/19*

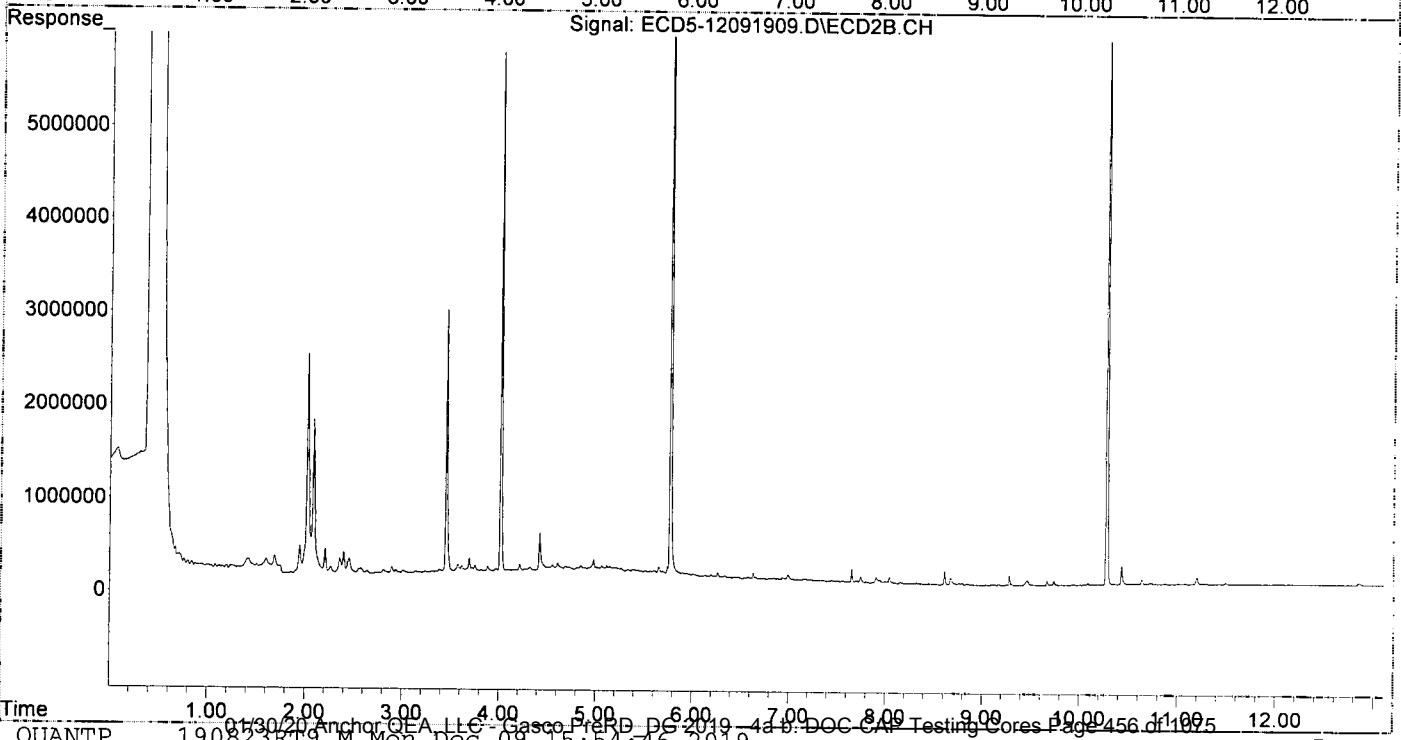
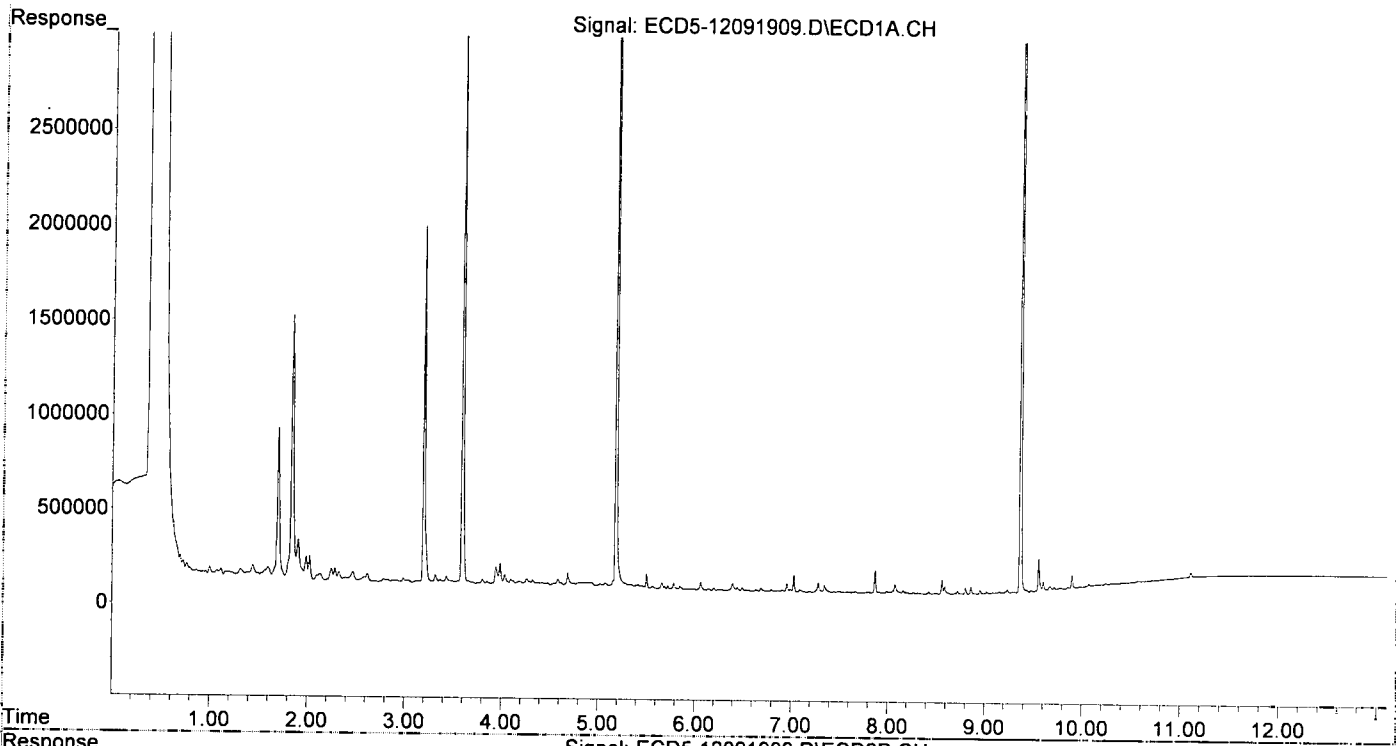
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.182	5.772	5284447	9270785	31.839	31.601
22) S DCBP (S)	9.365	10.277	6069188	8168671	43.014	45.441
Target Compounds						
2) a-BHC	5.722	6.338f	17661	18926	0.077	0.046 #
3) g-BHC	0.000	6.656f	0	20276	N.D.	0.057 #
4) b-BHC	6.062	6.753	42040	8669	0.465	0.055 #
5) Heptachlor	6.393	0.000	37370	0	0.206	N.D. #
6) d-BHC	6.200f	6.994	12966	55426	0.066	0.157 #
7) Aldrin	6.632	7.312	11267	6337	0.057	0.019 #
8) Heptachlo...	7.088	7.748	12327	62196	0.067	0.207 #
9) trans-Chl...	7.189	7.907	5530	58851	0.030	0.188 #
10) cis-Chlor...	7.281	8.044f	49741	66509	0.273	0.228 #
11) Endosulfa...	0.000	8.044	0	66509	N.D.	0.242 #
12) 4,4'-DDE	7.344f	8.157f	35287	17039	0.187	0.055 #
13) Dieldrin	7.579	0.000	6903	0	0.036	N.D. #
14) Endrin	0.000	0.000	0	0	N.D.	N.D. #
15) 4,4'-DDD	7.795	0.000	4600	0	0.029	N.D. #
16) Endosulfa...	7.870	8.614	121583	149382	0.847	0.648 #
17) 4,4'-DDT	7.990	8.763	11245	15268	0.094	0.051 #
18) Endrin Al...	8.159	8.854	17276	11427	BelowCal	BelowCal
19) Endosulfa...	8.488f	9.036	4136	4780	0.027	0.019 #
20) Methoxychlor	8.315	9.249	5041	6792	0.086	BelowCal #
21) Endrin Ke...	8.696f	9.461	4401	47549	0.026	0.185 #
23) Hexachlor...	2.986	3.454f	22517	2814534	0.123	7.487 #
24) Hexachlor...	5.561	6.223	14991	11321	0.085	0.036 #
25) Oxychlorane	7.027	7.699	90573	14372	0.550	0.052 #
26) 2,4'-DDE	7.088f	7.907	12327	58851	0.096	0.277 #
27) trans-Non...	7.281	7.946	49741	27411	87346.423	0.091 #
28) 2,4'-DDD	7.502	0.000	5857	0	0.051	N.D. #
29) 2,4'-DDT	7.664	0.000	7334	0	0.067	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D. #
31) Mirex	8.421	9.461f	12748	47549	0.102	0.256 #
32) Chlordane...	7.281f	7.946	49741	27411	2.526	0.758 #
33) Chlordane...	7.344	8.044	35287	66509	1.408	2.190 #
34) Chlordane...	7.870	0.000	121583	0	21.031	N.D. #
35) Chlordane...	0.000	3.454	0	2814534	N.D.	NoCal
36) Toxaphene...	7.344f	8.323f	35287	12200	39.398	4.649 #
37) Toxaphene...	7.579f	8.614f	6903	149382	4.275	45.391 #
38) Toxaphene...	7.908	8.676	7064	73615	2.098	14.524 #
39) Toxaphene...	8.159	8.763f	17276	15268	5.332	1.829 #
40) Toxaphene...	8.421f	0.000	12748	0	5.318	N.D. #
41) Toxaphene...	8.421f	9.279	12748	106480	4.028	22.416 #
42) Toxaphene...	0.000	3.454	0	2814534	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 13:24  
Operator : MJB  
Sample : 9120511-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:54:45 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091910.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 13:41  
 Operator : MJB  
 Sample : 9120511-BS1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 15:54:52 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/9/19

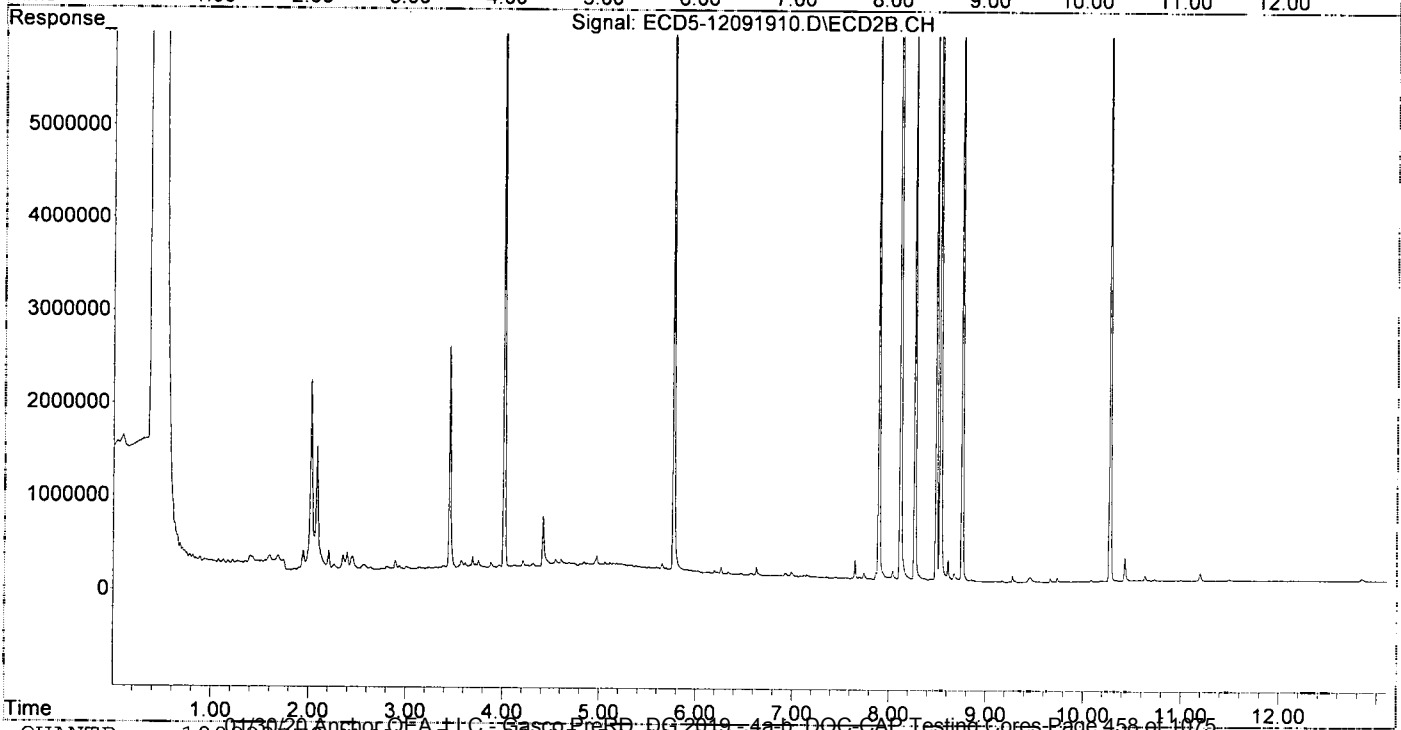
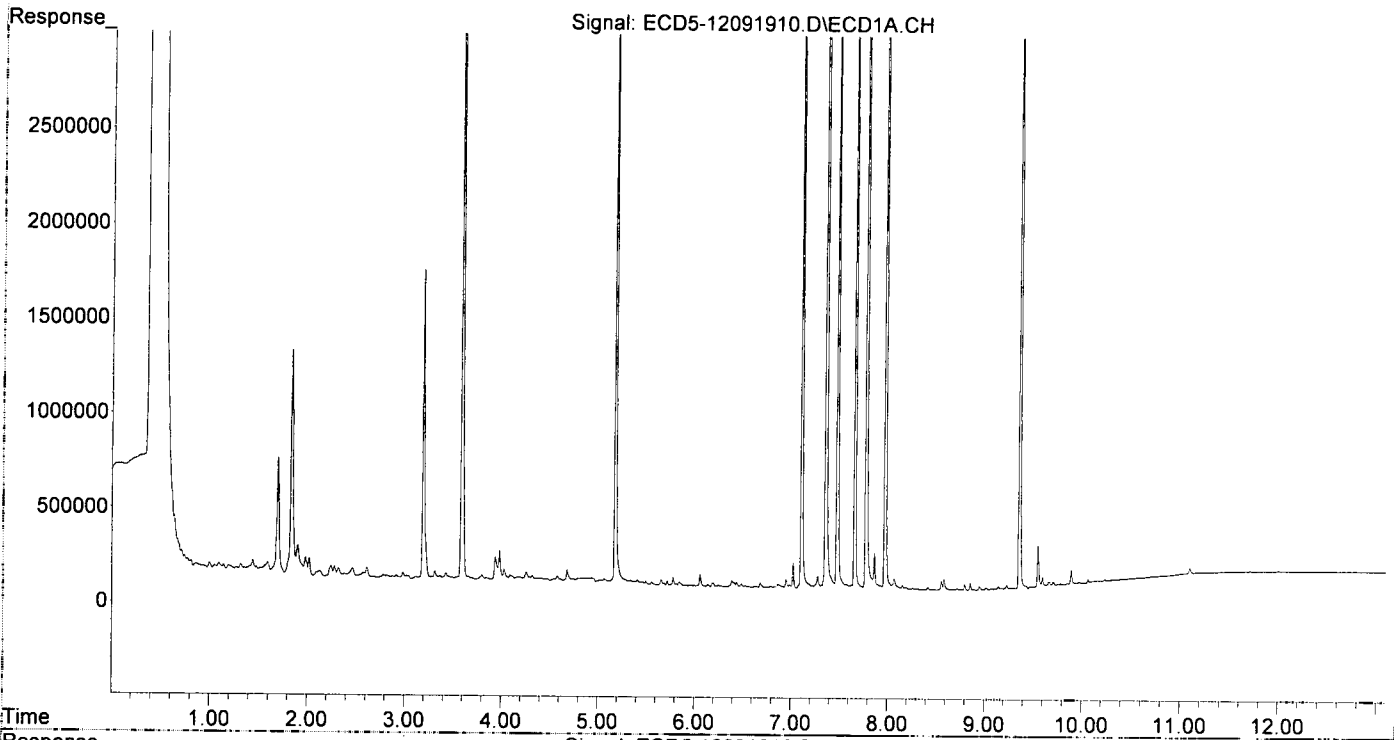
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.180	5.770	4795194	8352704	28.891	28.472
22) S DCBP (S)	9.363	10.275	6037398	8442710	42.788	46.966
Target Compounds						
2) a-BHC	5.720	0.000	23272	0	0.101	N.D. #
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.060	6.752	63603	21714	0.704	0.137 #
5) Heptachlor	6.392	0.000	32958	0	0.182	N.D. #
6) d-BHC	6.195f	6.992f	19000	59982	0.097	0.170 #
7) Aldrin	6.630	7.355f	6402	15284	0.032	0.046 #
8) Heptachlo...	7.110	7.745	5006809	68855	27.185	0.229 #
9) trans-Chl...	7.223f	7.897	13405	8098002	0.072	25.845 #
10) cis-Chlor...	7.279	7.996	66303	27475	0.364	0.094 #
11) Endosulfa...	7.361f	8.041	8208224	97722	48.233	0.355 #
12) 4,4'-DDE	7.361	8.119	8208224	13543856	43.538	43.595 #
13) Dieldrin	7.575	8.268	22738	8325075	0.118	27.372 #
14) Endrin	0.000	8.490	0	8708720	N.D.	38.564 #
15) 4,4'-DDD	7.779	8.532	7671227	12197525	48.818	47.607 #
16) Endosulfa...	7.868	8.612	188429	230791	1.312	1.001 #
17) 4,4'-DDT	7.975	8.756	7722447	11454673	64.590	59.884 #
18) Endrin Al...	8.156	8.852	20612	19240	BelowCal	BelowCal #
19) Endosulfa...	0.000	9.034f	0	5902	N.D.	0.024 #
20) Methoxychlor	0.000	9.277f	0	68132	N.D.	0.660 #
21) Endrin Ke...	0.000	9.456	0	54049	N.D.	0.210 #
23) Hexachlor...	2.984	3.452f	32898	2394392	0.180	6.369 #
24) Hexachlor...	5.558	6.221	16701	41487	0.095	0.132 #
25) Oxychlorane	7.025	7.696	130959	23075	0.796	0.084 #
26) 2,4'-DDE	7.110	7.897	5006809	8098002	39.036	38.173 #
27) trans-Non...	7.279	7.996f	66303	27475	0.054	0.091 #
28) 2,4'-DDD	7.480	8.268	5181088	8325075	45.398	44.080 #
29) 2,4'-DDT	7.662	8.490	5892300	8708720	53.719	48.832 #
30) cis-Nonac...	7.779f	8.532	7671227	12197525	36.949	36.362 #
31) Mirex	8.419	9.456f	12999	54049	0.104	0.290 #
32) Chlordane...	7.223f	0.000	13405	0	0.681	N.D. #
33) Chlordane...	7.361f	8.041f	8208224	97722	327.487	3.218 #
34) Chlordane...	7.868	0.000	188429	0	32.594	N.D. #
35) Chlordane...	0.000	3.452	0	2394392	N.D.	NoCal #
36) Toxaphene...	7.279f	8.268	66303	8325075	74.028	3172.354 #
37) Toxaphene...	7.575f	8.612f	22738	230791	14.080	70.127 #
38) Toxaphene...	0.000	8.674	0	89157	N.D.	17.591 #
39) Toxaphene...	8.156	8.756f	20612	11454673	6.361	1371.845 #
40) Toxaphene...	8.419f	0.000	12999	0	5.423	N.D. #
41) Toxaphene...	8.419f	9.277	12999	68132	4.108	14.343 #
42) Toxaphene...	0.000	3.452	0	2394392	N.D.	NoCal #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091910.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 13:41  
Operator : MJB  
Sample : 9120511-BS1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 15:54:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091919.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 16:16  
 Operator : MJB  
 Sample : 9L09034-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 16:41:57 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/9/19

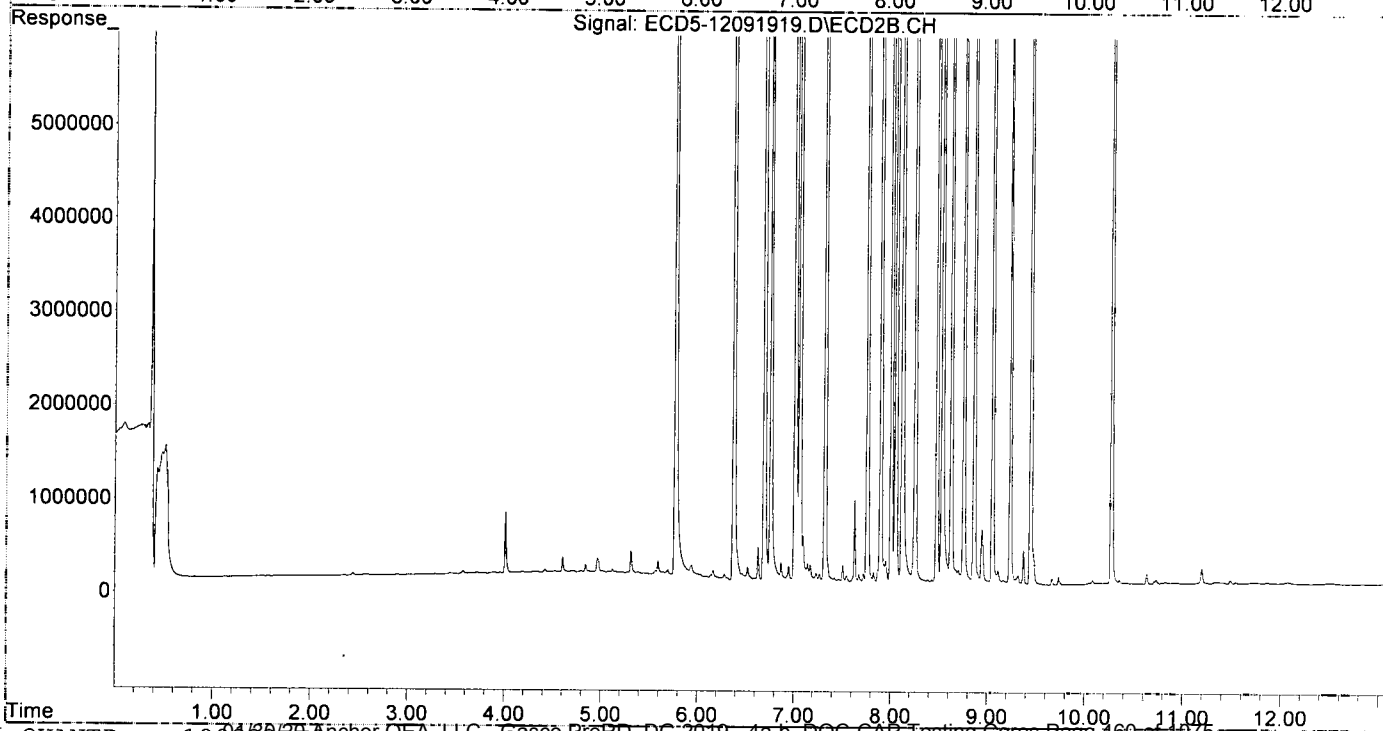
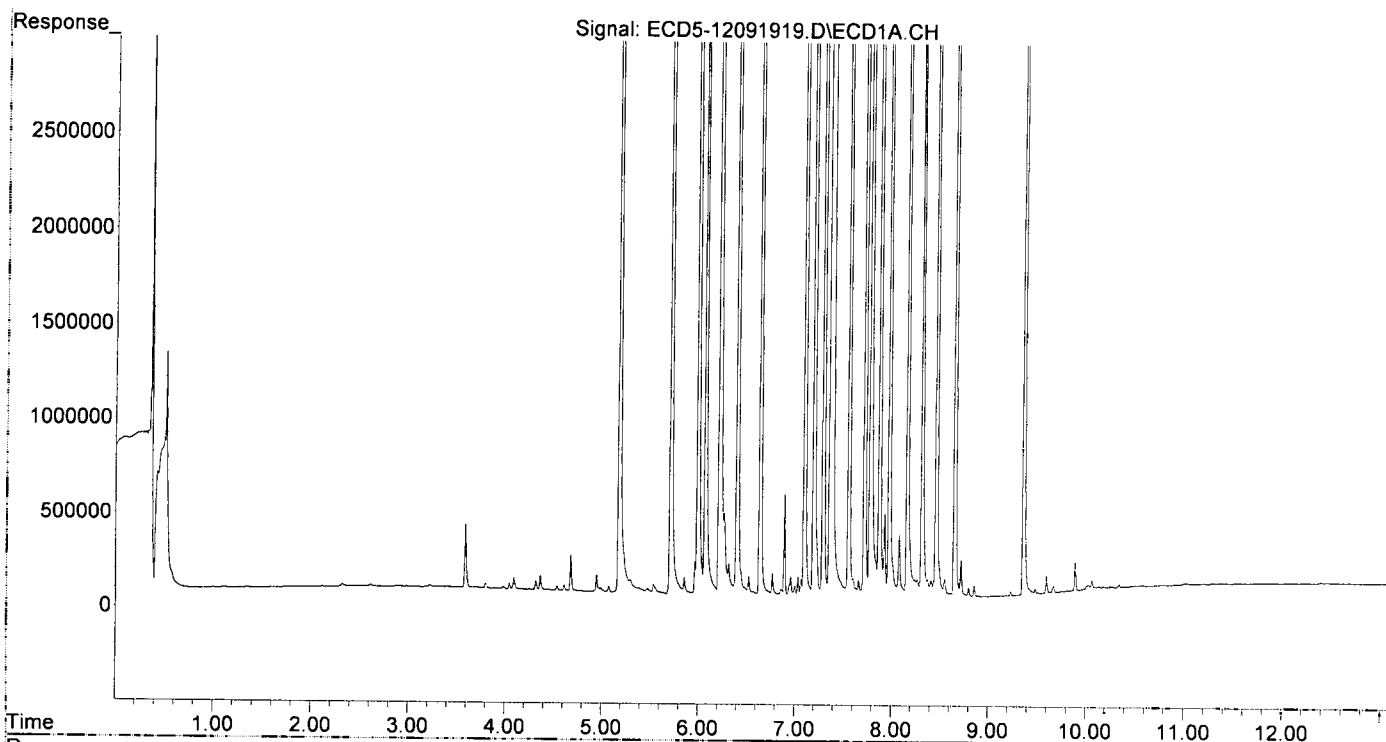
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.180	5.770	17170776	29868480	103.454	101.813
22) S DCBP (S)	9.364	10.275	13968869	20259104	99.001	112.699
Target Compounds						
2) a-BHC	5.714	6.376	24975243	45970026	108.906	112.029
3) g-BHC	5.995	6.692	21429257	38559549	106.203	108.100
4) b-BHC	6.071	6.759	8351997	14774095	92.406	93.350
5) Heptachlor	6.403	7.060	20699251	36625046	114.173	119.699
6) d-BHC	6.218	7.011	18430268	35525569	93.702	100.734
7) Aldrin	6.641	7.323	21233981	36970761	107.543	112.239
8) Heptachlo...	7.100	7.761	19421881	32077580	105.451	106.624
9) trans-Chl...	7.196	7.899	19651186	33515075	106.285	106.966
10) cis-Chlor...	7.293	8.008	18622999	31575267	102.284	108.414
11) Endosulfa...	7.386	8.055	18296890	29712176	107.515	107.975
12) 4,4'-DDE	7.362	8.120	18279924	31124217	96.960m	100.182
13) Dieldrin	7.559	8.255	20826479	34552640	108.483	113.604
14) Endrin	7.721	8.479	16418571	26354352	111.670	116.702
15) 4,4'-DDD	7.780	8.534	14428758	25105681	91.821	97.987
16) Endosulfa...	7.876	8.627	15419351	26237157	107.369	113.775
17) 4,4'-DDT	7.977	8.757	13995330	21719229	117.057	105.314
18) Endrin Al...	8.165	8.864	13297123	21687250	105.556	104.774
19) Endosulfa...	8.464	9.054	15206620	25108247	98.121	100.801
20) Methoxychlor	8.316	9.237	6786565	10418372	115.863	104.900
21) Endrin Ke...	8.655	9.446	17428999	27837124	104.516	108.183
23) Hexachlor...	0.000	3.479	0	2946	N.D.	0.008 #
24) Hexachlor...	5.537f	0.000	50308	0	0.285	N.D. #
25) Oxychlorodane	7.002f	7.696	50574	18672	0.307	0.068 #
26) 2,4'-DDE	7.100	7.899	19421881	33515075	151.425	157.987
27) trans-Non...	7.293	7.953	18622999	228735	103.752	0.758 #
28) 2,4'-DDD	0.000	8.255	0	34552640	N.D.	182.950 #
29) 2,4'-DDT	7.663	8.479	79660	26354352	0.726	147.776 #
30) cis-Nonac...	7.780f	8.534	14428758	25105681	69.498	74.842
31) Mirex	8.412	9.446	83289	27837124	0.664	149.603 #
32) Chlordane...	0.000	7.953	0	228735	N.D.	6.321 #
33) Chlordane...	0.000	8.055	0	29712176	N.D.	978.531 #
34) Chlordane...	7.876	8.704	15419351	139525	2667.190	15.562 #
35) Chlordane...	0.000	3.438	0	9203	N.D.	NoCal
36) Toxaphene...	7.293f	8.255f	18622999	34552640	20792.779	13166.632
37) Toxaphene...	0.000	8.627	0	26237157	N.D.	7972.336 #
38) Toxaphene...	7.930	8.675	437656	140001	129.965	27.623 #
39) Toxaphene...	8.165	8.757f	13297123	21719229	4103.857	2601.157
40) Toxaphene...	8.412f	8.945f	83289	582518	34.745	124.994 #
41) Toxaphene...	8.464	9.318f	15206620	82621	4805.252	17.393 #
42) Toxaphene...	0.000	3.479f	0	2946	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 16:16  
Operator : MJB  
Sample : 9L09034-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

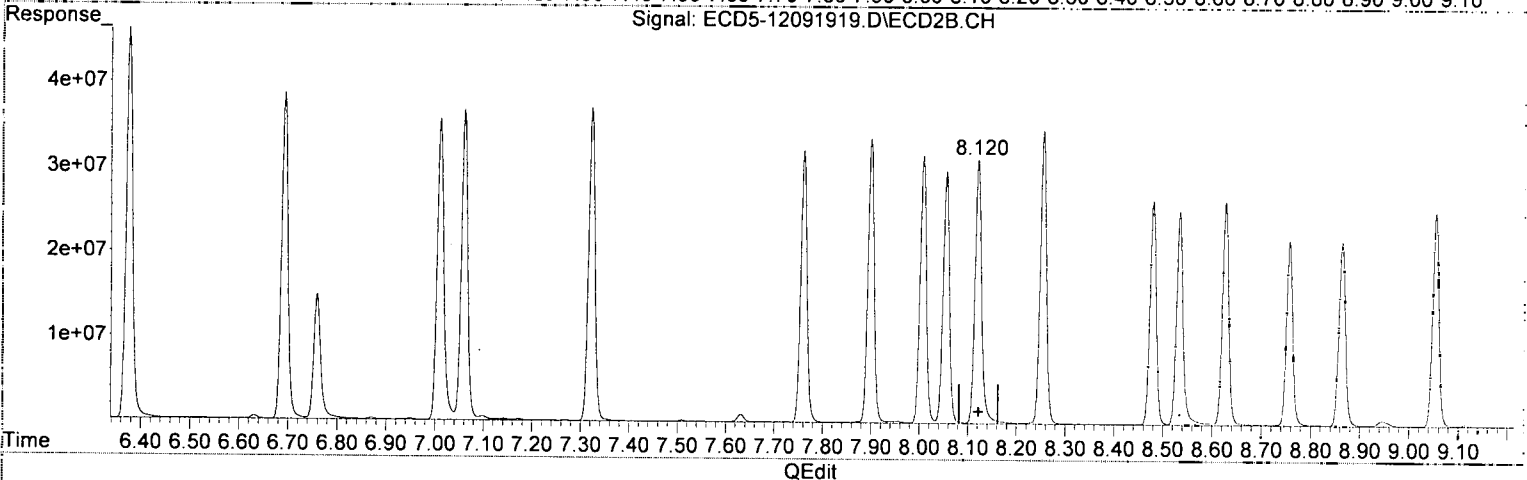
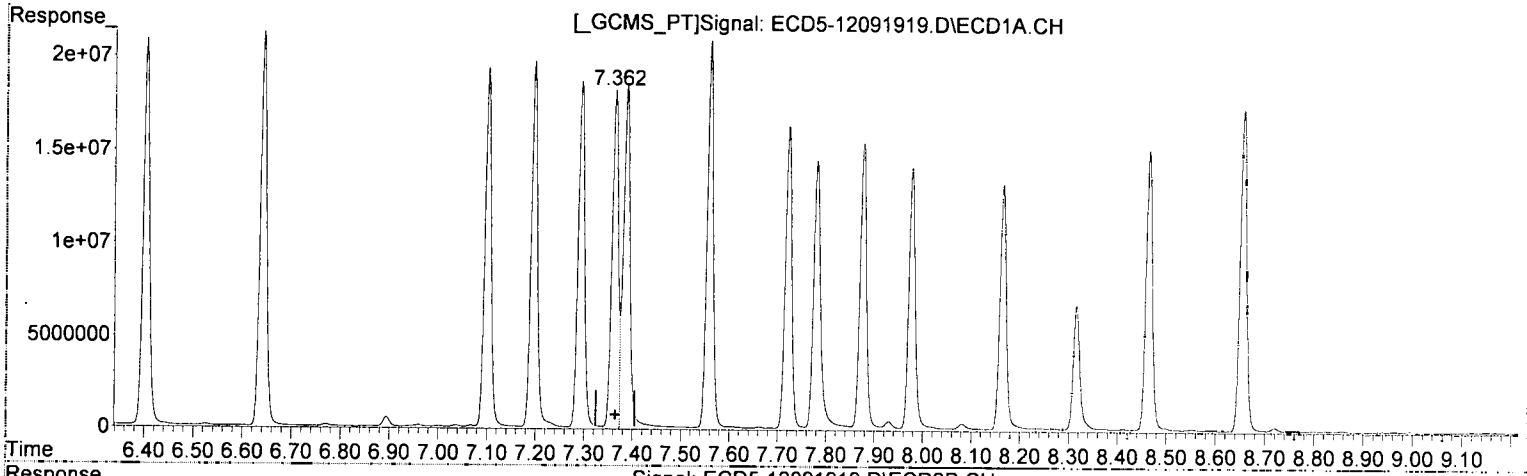
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 16:41:57 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 16:16  
Operator : MJB  
Sample : 9L09034-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 16:30:19 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.362min 96.960 ng/mL (m)  
response 18279924

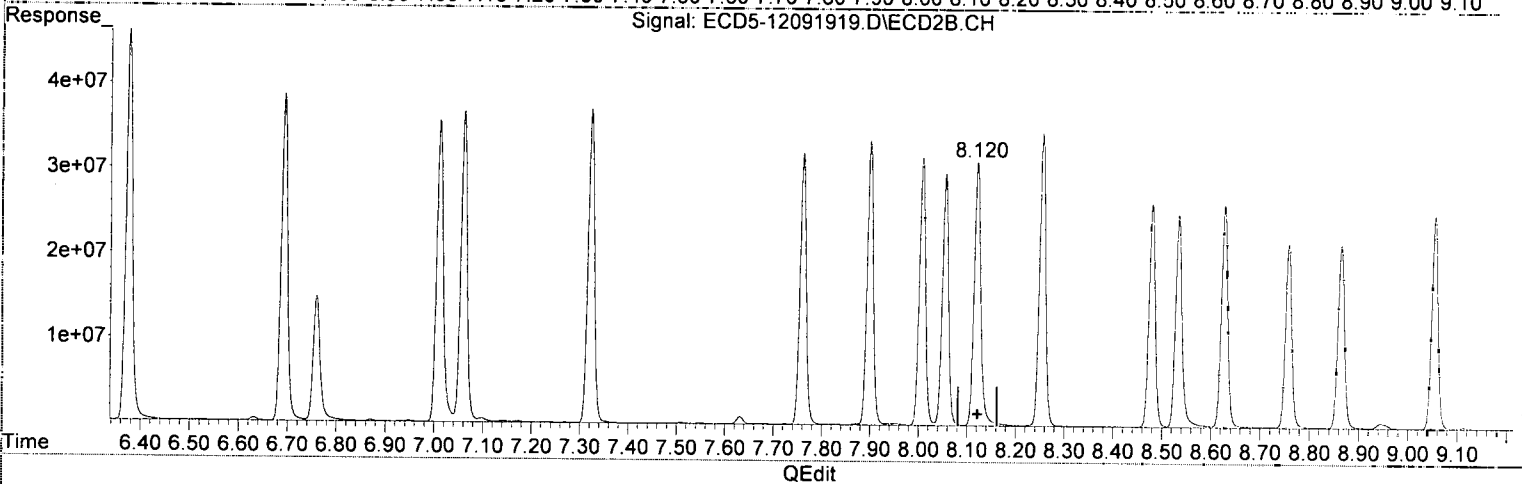
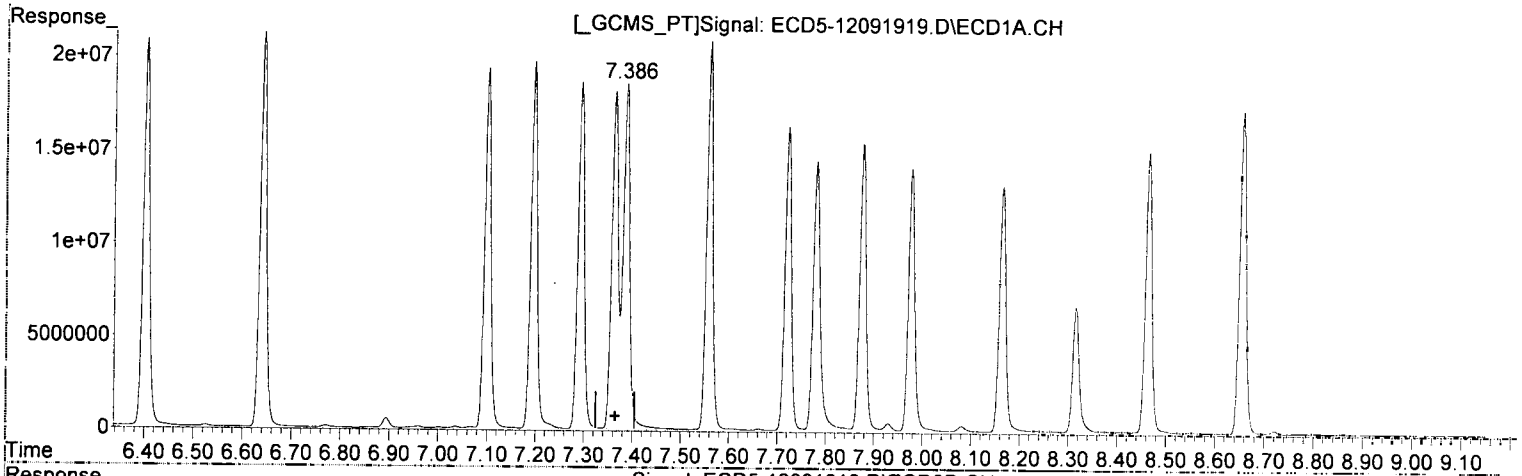
*MJB*  
*12/9/19*

(12) 4,4'-DDE #2  
8.120min 100.182 ng/mL  
response 31124217

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 16:16  
Operator : MJB  
Sample : 9L09034-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 16:30:19 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.386min 97.050 ng/mL  
response 18286890

*MJB 12/9/19*

(12) 4,4'-DDE #2  
8.120min 100.182 ng/mL  
response 31124217

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091919.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 16:16  
 Operator : MJB  
 Sample : 9L09034-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 16:30:19 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

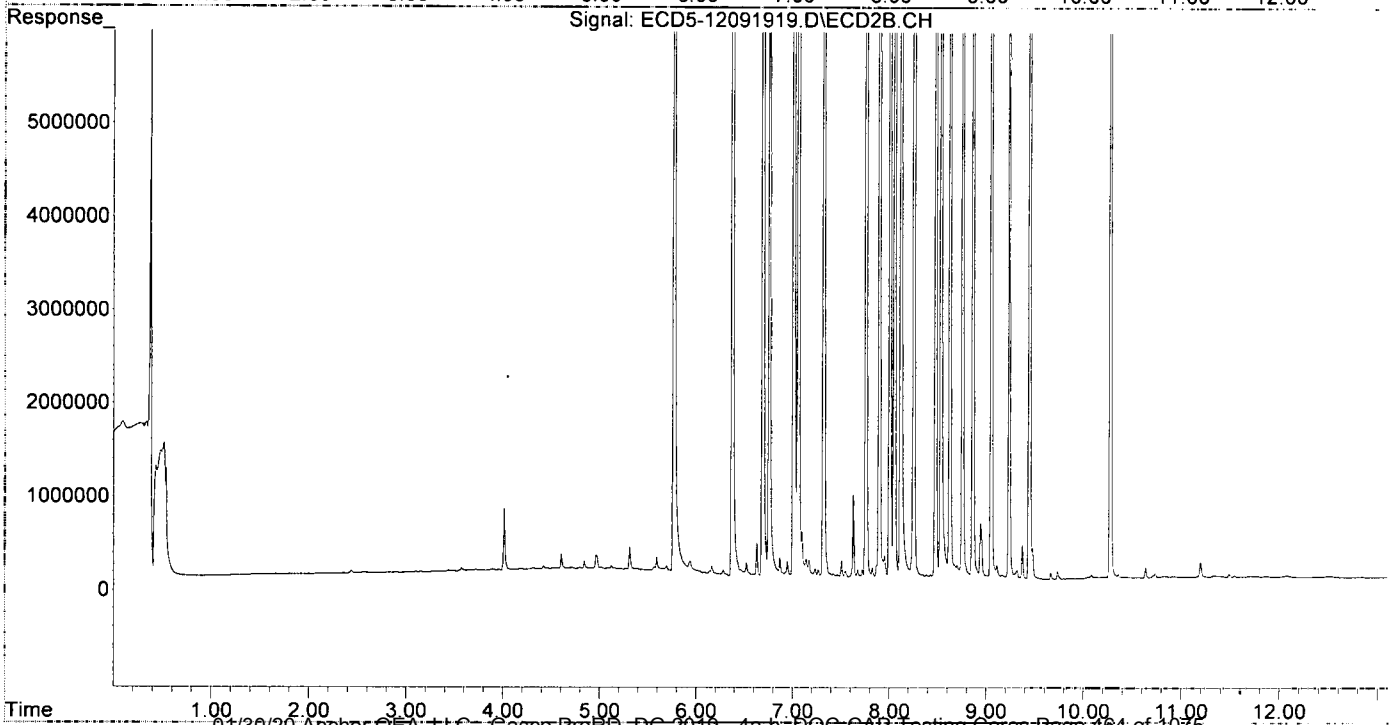
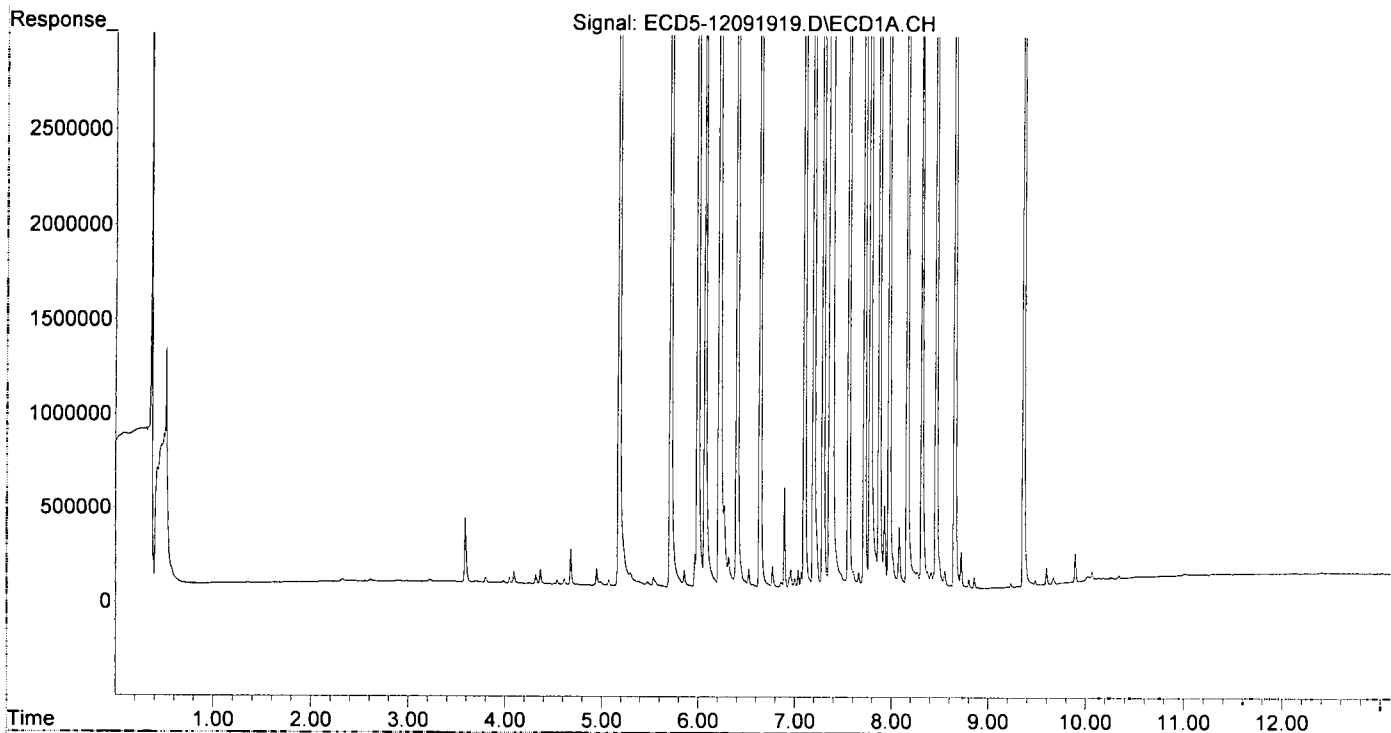
MI  
 MR  
 12/9/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.180	5.770	17170776	29868480	103.454	101.813
22) S DCBP (S)	9.364	10.275	13968869	20259104	99.001	112.699
Target Compounds						
2) a-BHC	5.714	6.376	24975243	45970026	108.906	112.029
3) g-BHC	5.995	6.692	21429257	38559549	106.203	108.100
4) b-BHC	6.071	6.759	8351997	14774095	92.406	93.350
5) Heptachlor	6.403	7.060	20699251	36625046	114.173	119.699
6) d-BHC	6.218	7.011	18430268	35525569	93.702	100.734
7) Aldrin	6.641	7.323	21233981	36970761	107.543	112.239
8) Heptachlo...	7.100	7.761	19421881	32077580	105.451	106.624
9) trans-Chl...	7.196	7.899	19651186	33515075	106.285	106.966
10) cis-Chlor...	7.293	8.008	18622999	31575267	102.284	108.414
11) Endosulfa...	7.386	8.055	18296890	29712176	107.515	107.975
12) 4,4'-DDE	7.386f	8.120	18296890	31124217	97.050	100.182
13) Dieldrin	7.559	8.255	20826479	34552640	108.483	113.604
14) Endrin	7.721	8.479	16418571	26354352	111.670	116.702
15) 4,4'-DDD	7.780	8.534	14428758	25105681	91.821	97.987
16) Endosulfa...	7.876	8.627	15419351	26237157	107.369	113.775
17) 4,4'-DDT	7.977	8.757	13995330	21719229	117.057	105.314
18) Endrin Al...	8.165	8.864	13297123	21687250	105.556	104.774
19) Endosulfa...	8.464	9.054	15206620	25108247	98.121	100.801
20) Methoxychlor	8.316	9.237	6786565	10418372	115.863	104.900
21) Endrin Ke...	8.655	9.446	17428999	27837124	104.516	108.183
23) Hexachlor...	0.000	3.479	0	2946	N.D.	0.008 #
24) Hexachlor...	5.537f	0.000	50308	0	0.285	N.D. #
25) Oxychlorane	7.002f	7.696	50574	18672	0.307	0.068 #
26) 2,4'-DDE	7.100	7.899	19421881	33515075	151.425	157.987
27) trans-Non...	7.293	7.953	18622999	228735	103.752	0.758 #
28) 2,4'-DDD	0.000	8.255	0	34552640	N.D.	182.950 #
29) 2,4'-DDT	7.663	8.479	79660	26354352	0.726	147.776 #
30) cis-Nonac...	7.780f	8.534	14428758	25105681	69.498	74.842
31) Mirex	8.412	9.446	83289	27837124	0.664	149.603 #
32) Chlordane...	0.000	7.953	0	228735	N.D.	6.321 #
33) Chlordane...	0.000	8.055	0	29712176	N.D.	978.531 #
34) Chlordane...	7.876	8.704	15419351	139525	2667.190	15.562 #
35) Chlordane...	0.000	3.438	0	9203	N.D.	NoCal
36) Toxaphene...	7.293f	8.255f	18622999	34552640	20792.779	13166.632
37) Toxaphene...	0.000	8.627	0	26237157	N.D.	7972.336 #
38) Toxaphene...	7.930	8.675	437656	140001	129.965	27.623 #
39) Toxaphene...	8.165	8.757f	13297123	21719229	4103.857	2601.157
40) Toxaphene...	8.412f	8.945f	83289	582518	34.745	124.994 #
41) Toxaphene...	8.464	9.318f	15206620	82621	4805.252	17.393 #
42) Toxaphene...	0.000	3.479f	0	2946	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 16:16  
Operator : MJB  
Sample : 9L09034-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 16:30:19 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091920.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 16:34  
 Operator : MJB  
 Sample : 9L09034-CCV4  
 Misc : A19J409, 9-42 100 ppb  
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 16:50:13 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.155f	0.000	30718	0	0.185	N.D.	#
22) S DCBP (S)	9.366	10.277	61516	78984	0.436	0.439	
Target Compounds							
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3) g-BHC	0.000	6.726f	0	14056	N.D.	0.039	#
4) b-BHC	6.063	6.759	10383	6706	0.115	0.042	#
5) Heptachlor	6.404	7.061	29915	39402	0.165	0.129	
6) d-BHC	6.190f	7.022	21725	8310	0.110	0.024	#
7) Aldrin	6.639	7.308	5354	26953	0.027	0.082	#
8) Heptachlo...	7.113	7.760	11404633	74685	61.922	0.248	#
9) trans-Chl...	7.195	7.900	169648	19952021	0.918	63.678	#
10) cis-Chlor...	7.288	0.000	18215678	0	100.047	N.D.	#
11) Endosulfa...	7.374	8.072	129358	174607	0.760	0.635	
12) 4,4'-DDE	7.374	0.000	129358	0	0.686	N.D.	#
13) Dieldrin	7.530f	8.272	443737	17064948	2.311	56.107	#
14) Endrin	7.755f	8.492	20331781	17693306	138.286	78.349	#
15) 4,4'-DDD	7.755f	8.528	20331781	34307576	129.386	133.902	
16) Endosulfa...	7.874	8.618	31674	29355	0.221	0.127	#
17) 4,4'-DDT	7.978	0.000	9681	0	0.081	N.D.	#
18) Endrin Al...	8.178	8.865	32533	8999	BelowCal	BelowCal	
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21) Endrin Ke...	8.658	9.433	5226	17752648	0.031	68.992	#
23) Hexachlor...	2.983	3.480	17751524	40189239	97.141	106.906	
24) Hexachlor...	5.561	6.237	18298996	32342136	103.798	102.972	
25) Oxychlordane	7.031	7.692	15969385	26440250	97.056	96.532	
26) 2,4'-DDE	7.113	7.900	11404633	19952021	88.917	94.052	
27) trans-Non...	7.288	7.966	18215678	30227071	101.473	100.211	
28) 2,4'-DDD	7.483	8.272	10083626	17064948	88.356	90.356	
29) 2,4'-DDT	7.665	8.492	11090121	17693306	101.106	99.211	
30) cis-Nonac...	7.755	8.528	20331781	34307576	97.930	102.273	
31) Mirex	8.414	9.433	11706025	17752648	93.374	95.407	
32) Chlordane...	0.000	7.966	0	30227071	N.D.	835.358	#
33) Chlordane...	7.374f	8.072	129358	174607	5.161	5.750	
34) Chlordane...	7.874	8.684f	31674	43285	5.479	4.828	
35) Chlordane...	3.477	3.440	10367	4359	NoCal	NoCal	
36) Toxaphene...	7.288f	8.272	18215678	17064948	20338.001	6502.770	#
37) Toxaphene...	7.623	8.618	117136	29355	72.533	8.920	#
38) Toxaphene...	0.000	8.684	0	43285	N.D.	8.540	#
39) Toxaphene...	8.178	0.000	32533	0	10.040	N.D.	#
40) Toxaphene...	8.414f	0.000	11706025	0	4883.326	N.D.	#
41) Toxaphene...	8.414f	0.000	11706025	0	3699.074	N.D.	#
42) Toxaphene...	3.477	3.440	10367	4359	NoCal	NoCal	

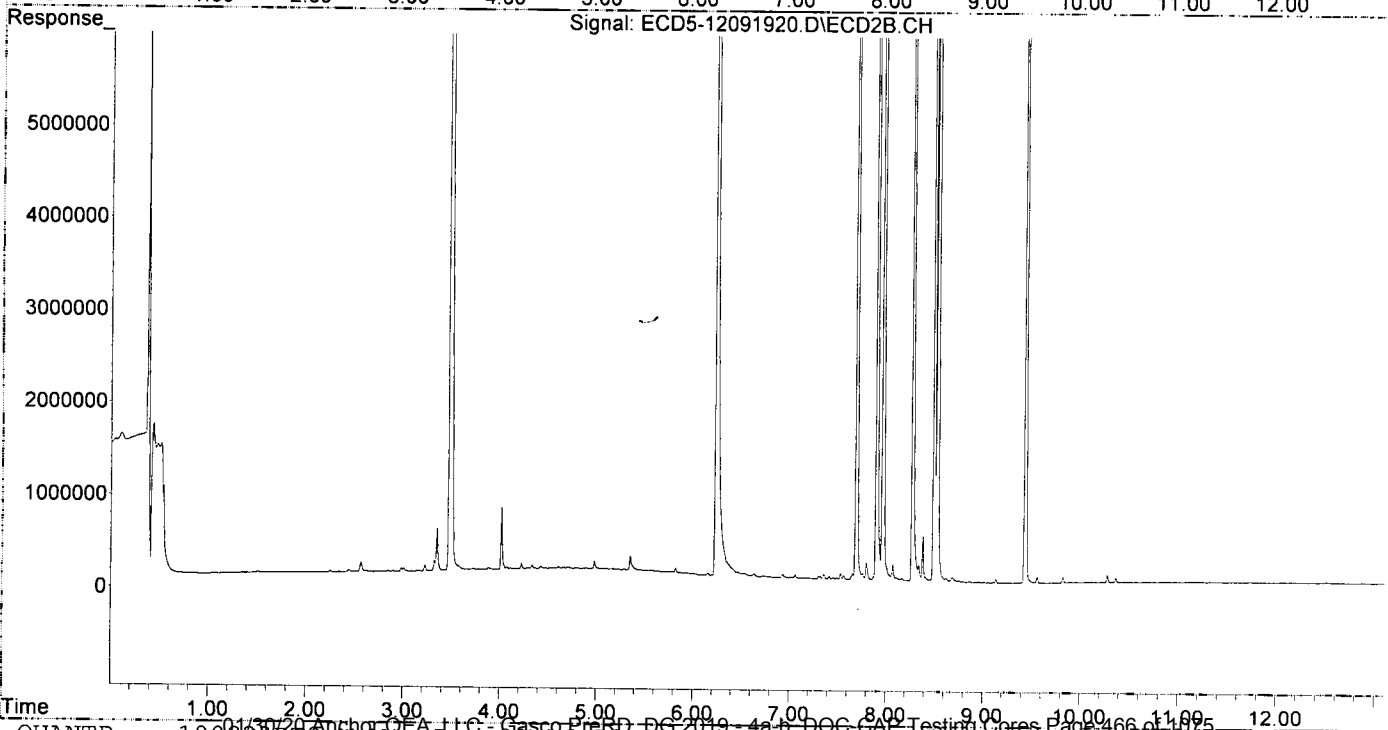
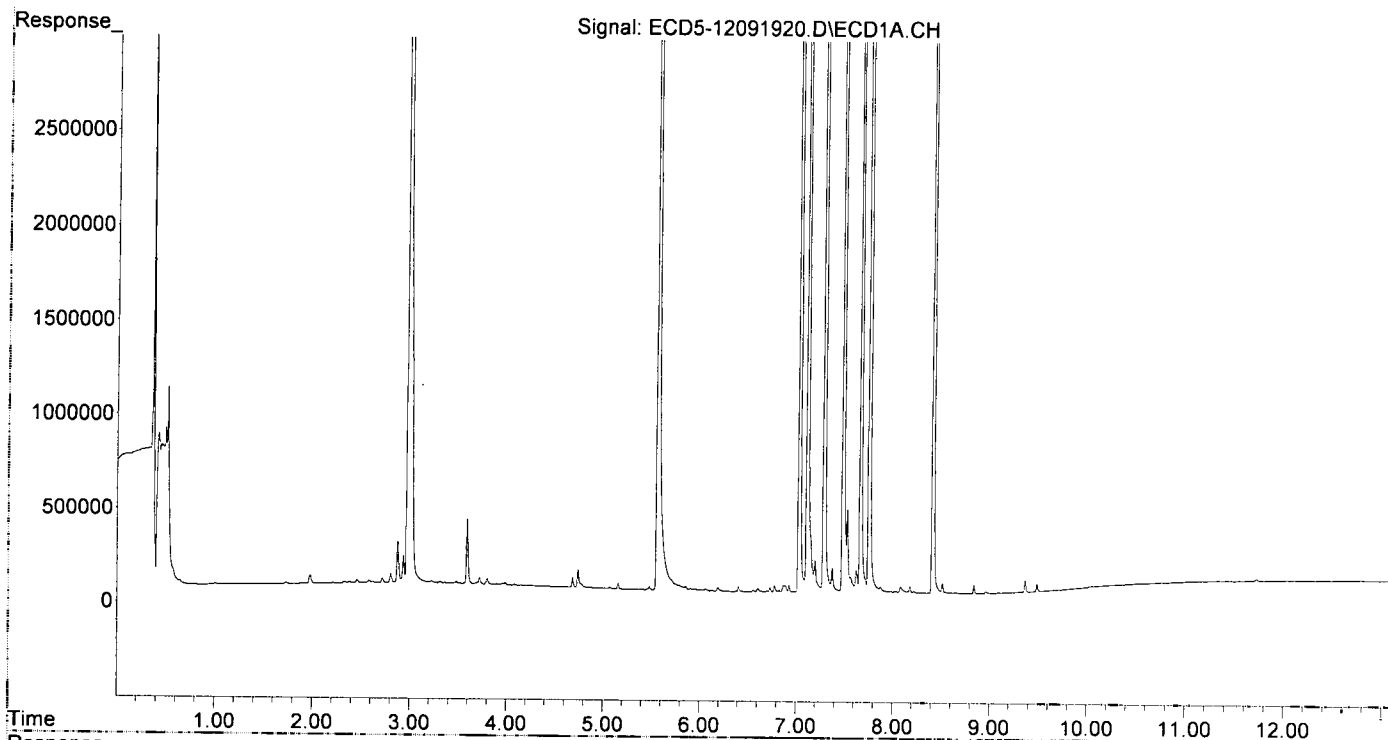
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

MJB  
12/9/19

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091920.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 16:34  
Operator : MJB  
Sample : 9L09034-CCV4  
Misc : A19J409, 9-42 100 ppb  
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 16:50:13 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 16:51  
 Operator : MJB  
 Sample : 9L09034-CCB2  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 09 17:24:32 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 12/19/19

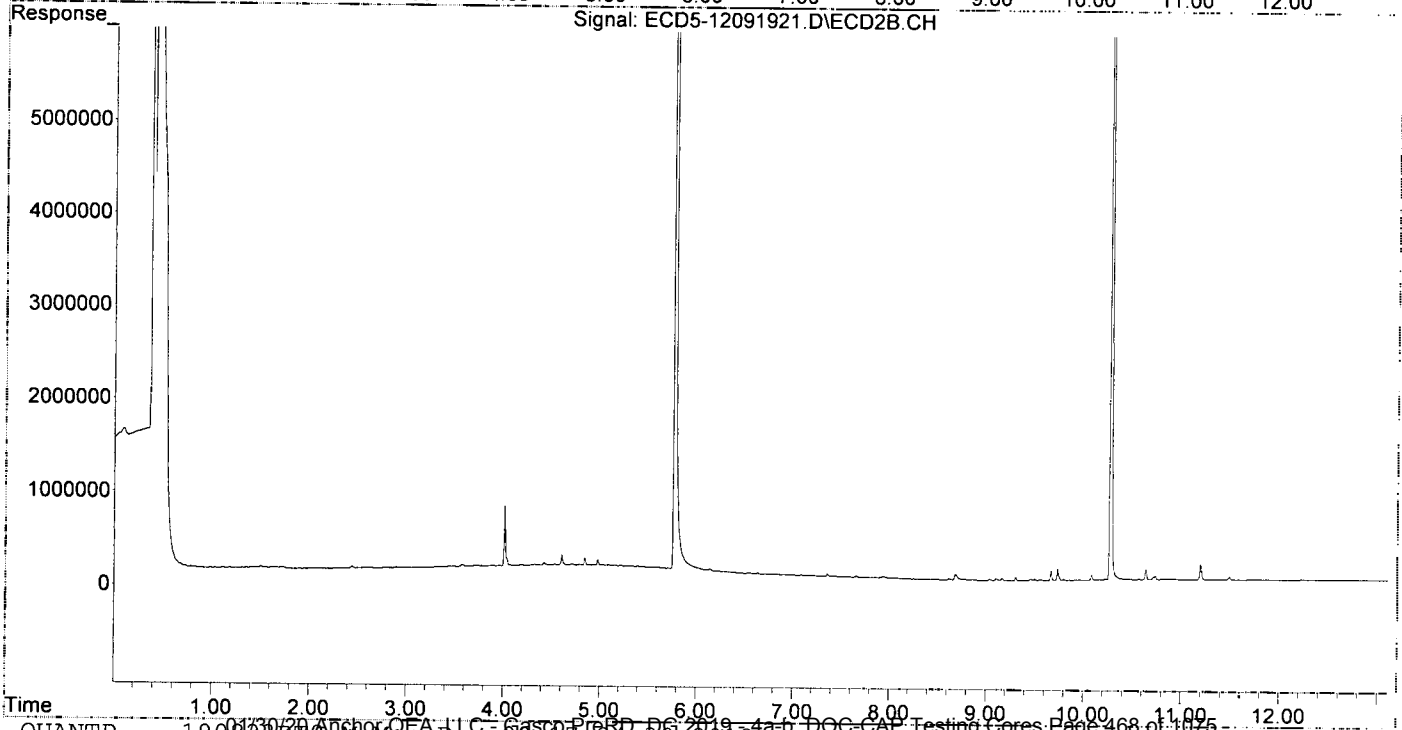
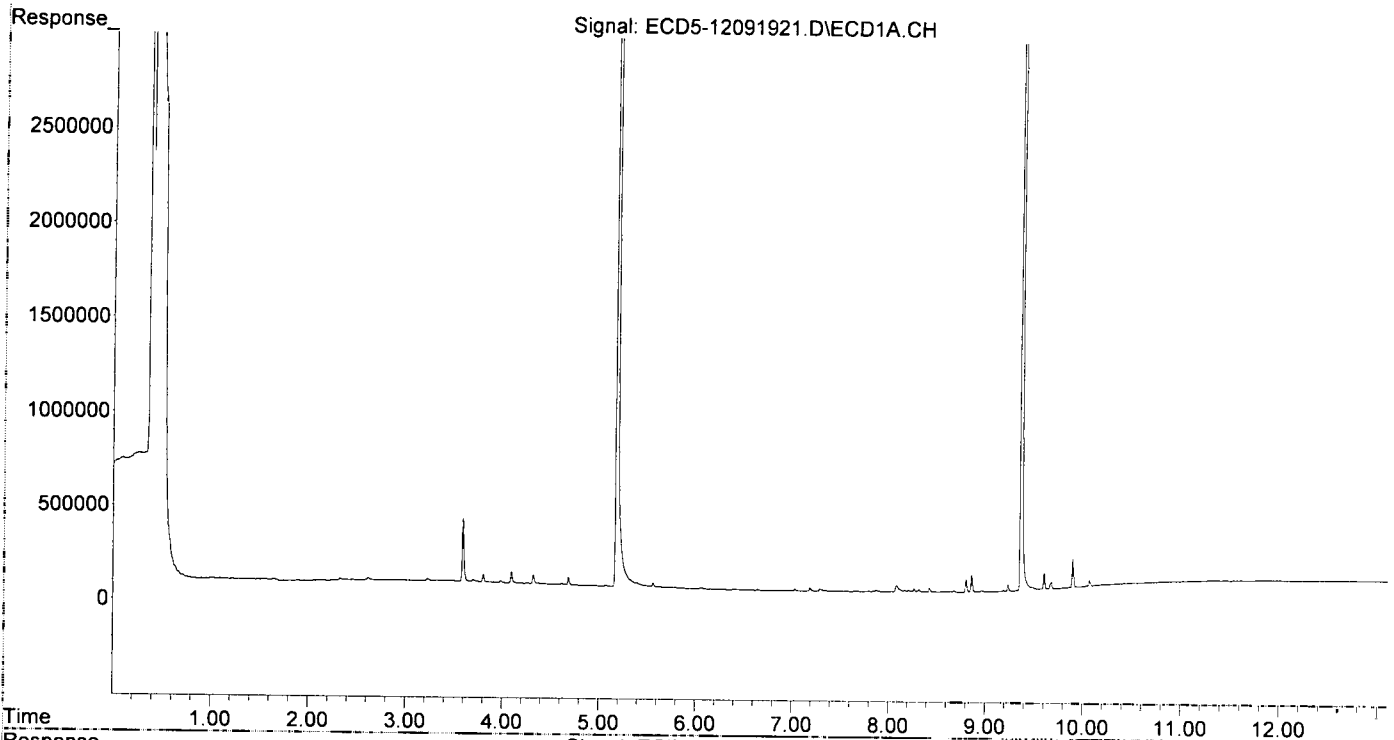
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.180	5.771	16797580	29163214	101.205	99.409
22) S DCBP (S)	9.365	10.276	13299694	20065848	94.258	111.624
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.065	0.000	7404	0	0.082	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.641	7.358f	4818	26065	0.024	0.079 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.188	7.934f	17121	14127	0.093	0.045 #
10) cis-Chlor...	7.293	0.000	10427	0	0.057	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	7.796	0.000	4164	0	0.027	N.D. #
16) Endosulfa...	7.874	8.617	10785	14409	0.075	0.062
17) 4,4'-DDT	0.000	8.773	0	9303	N.D.	0.016 #
18) Endrin Al...	8.165	8.860	7510	7052	BelowCal	BelowCal
19) Endosulfa...	0.000	9.034f	0	13688	N.D.	0.055 #
20) Methoxychlor	8.314	0.000	12800	0	0.219	N.D. #
21) Endrin Ke...	8.675	9.463	7945	11848	0.048	0.046
23) Hexachlor...	0.000	3.484	0	6996	N.D.	0.019 #
24) Hexachlor...	5.559	0.000	23196	0	0.132	N.D. #
25) Oxylordane	7.031	7.657f	9631	16113	0.059	0.059
26) 2,4'-DDE	0.000	7.934f	0	14127	N.D.	0.067 #
27) trans-Non...	7.293	7.934f	10427	14127	87346.642	0.047 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.643f	0.000	4460	0	0.041	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.422	9.463f	22965	11848	0.183	0.064 #
32) Chlordane...	0.000	7.934	0	14127	N.D.	0.390 #
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.874	8.685f	10785	58047	1.866	6.474 #
35) Chlordane...	0.000	3.440	0	10320	N.D.	NoCal
36) Toxaphene...	7.293f	0.000	10427	0	11.641	N.D. #
37) Toxaphene...	7.643f	8.617	4460	14409	2.762	4.378 #
38) Toxaphene...	0.000	8.685	0	58047	N.D.	11.453 #
39) Toxaphene...	8.165	8.773f	7510	9303	2.318	1.114 #
40) Toxaphene...	8.422f	0.000	22965	0	9.580	N.D. #
41) Toxaphene...	8.422f	9.304	22965	33381	7.257	7.027
42) Toxaphene...	0.000	3.440	0	10320	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 16:51  
Operator : MJB  
Sample : 9L09034-CCB2  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 09 17:24:32 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091930.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 19:39  
 Operator : MJB  
 Sample : A9I0890-04RE1(2)  
 Misc : 2x, 8081B 2,4\*4,4-DDx Only, GPC  
 ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 12:08:16 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*R.04*

*MJB 12/10/19*

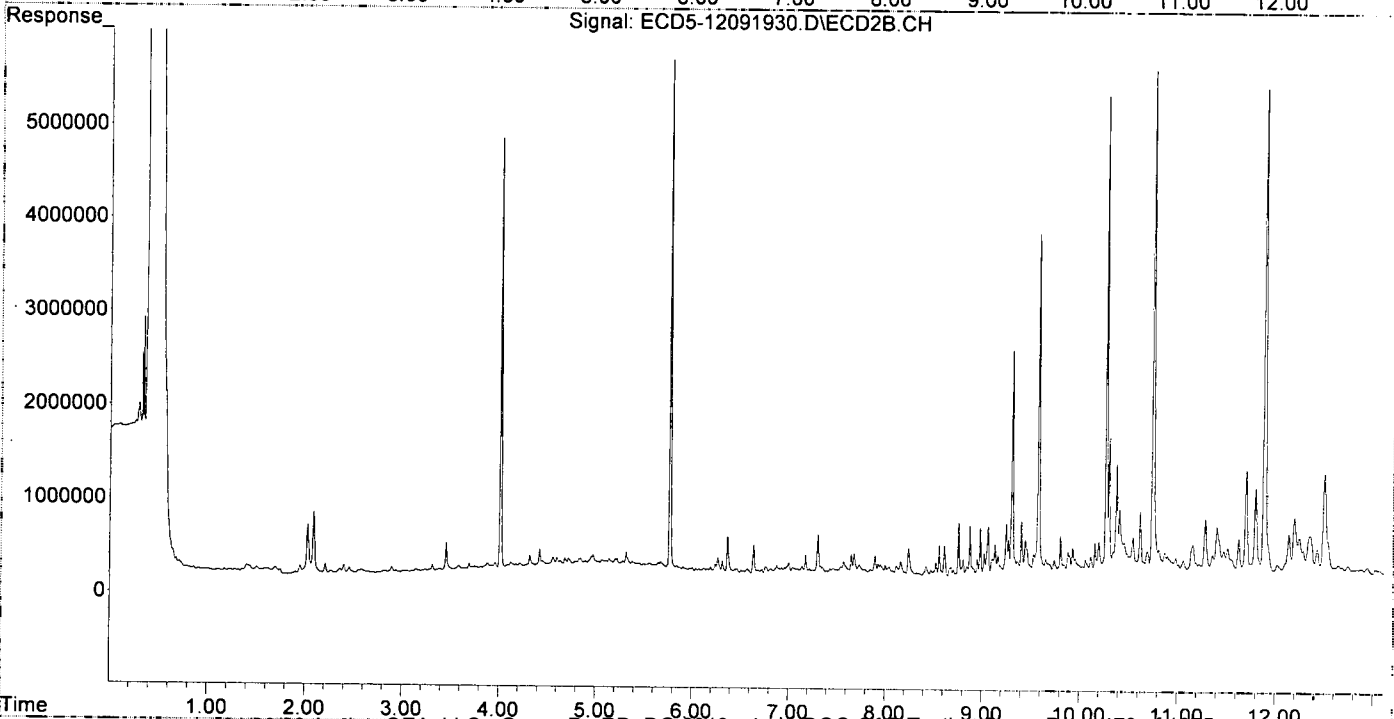
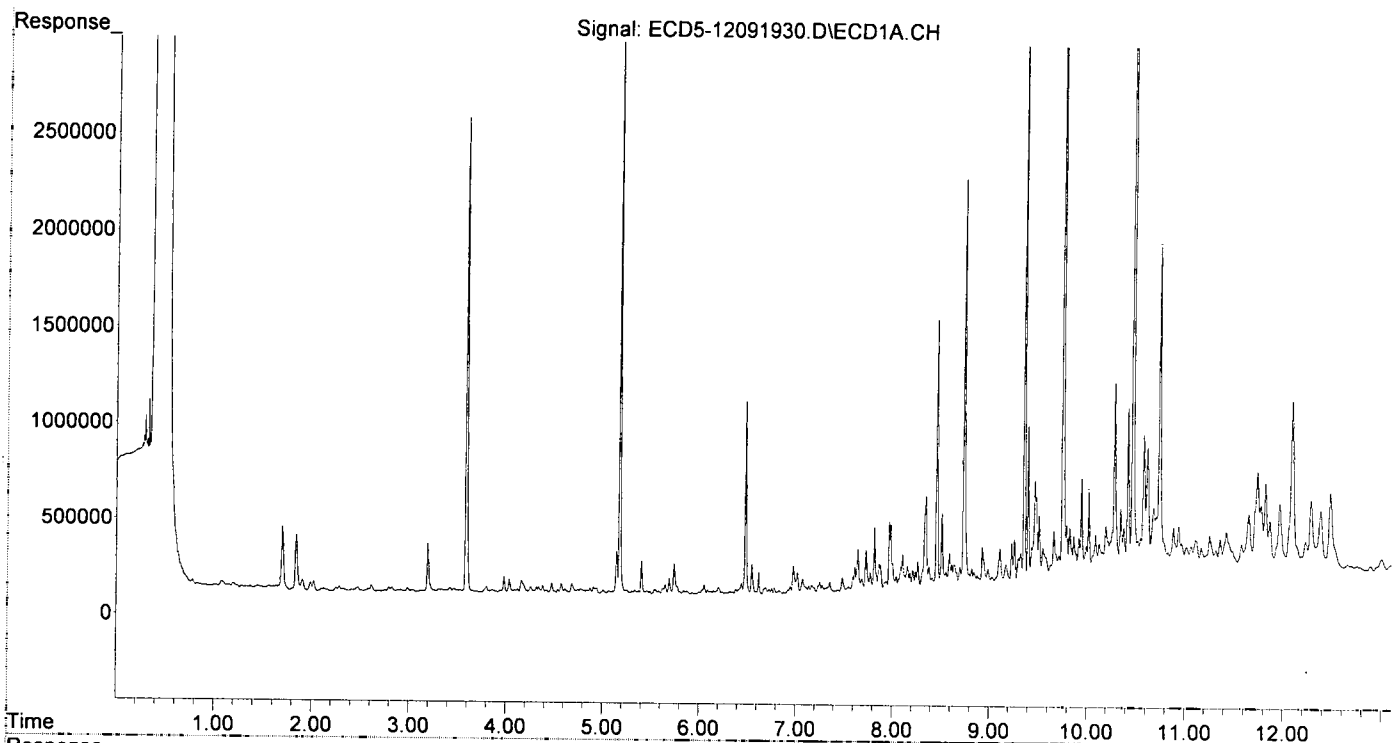
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.177	5.768	2852754	5479721	17.188	18.679
22) S DCBP (S)	9.358	10.270	3168455	5085627	22.456	28.291
Target Compounds						
2) a-BHC	5.691f	6.368	82107	411548	0.358	1.003 #
3) g-BHC	6.000	6.673f	10896	54256	0.054	0.152 #
4) b-BHC	6.088	6.763	20967	91100	0.232	0.576 #
5) Heptachlor	6.380f	7.067	24807	70906	0.137	0.232 #
6) d-BHC	6.201	7.003	35044	134897	0.178	0.383 #
7) Aldrin	6.617f	7.332	111816	99747	0.566	0.303 #
8) Heptachlo...	7.073f	7.733f	74404	111401	0.404	0.370
9) trans-Chl...	7.168f	7.896	38743	208451	0.210	0.665 #
10) cis-Chlor...	7.275f	8.002	37088	111008	0.204	0.381 #
11) Endosulfa...	7.353f	8.042	52289	90611	0.307	0.329
12) 4,4'-DDE	7.353	8.116	52289	104115	0.277	0.335
13) Dieldrin	7.551	8.242	21143	287610	0.110	0.946 #
14) Endrin	7.728	8.473	207094	59454	1.409	0.263 #
15) 4,4'-DDD	7.773	8.525	92066	140506	0.586	0.548
16) Endosulfa...	7.863	8.613	137724	320261	0.959	1.389 #
17) 4,4'-DDT	7.968	8.759	354131	561219	2.962m	3.216 - P.01
18) Endrin Al...	8.157	8.875	119658	528291	0.005	2.038 #
19) Endosulfa...	8.460	9.061	1403206	523244	9.054	2.101 #
20) Methoxychlor	8.345f	9.249	486452	549019	8.305	6.543
21) Endrin Ke...	8.637f	9.444	119466	376373	0.716	1.463 #
23) Hexachlor...	2.983	3.453f	20370	336308	0.111	0.895 #
24) Hexachlor...	5.539f	6.239	25273	116204	0.143	0.370 #
25) Oxychlordane	7.019	7.679	109746	230116	0.667	0.840
26) 2,4'-DDE	7.096	7.896	30787	208451	0.240m	0.983 #
27) trans-Non...	7.275	7.952	37088	112512	87346.493	0.373 #
28) 2,4'-DDD	7.484	8.260	72510	108260	0.635	0.573m
29) 2,4'-DDT	7.652	8.477	122698	56745	1.119m	0.318m#
30) cis-Nonac...	7.773	8.525	92066	140506	0.443	0.419
31) Mirex	8.411	9.444	53865	376373	0.430	2.023 #
32) Chlordane...	7.248	7.952	54847	112512	2.786	3.109
33) Chlordane...	7.327	8.076	25111	49448	1.002	1.628 #
34) Chlordane...	7.863	8.703	137724	62142	23.823	6.931 #
35) Chlordane...	3.461	3.453	19502	336308	NoCal	NoCal
36) Toxaphene...	7.327	8.326f	25111	26960	28.036	10.273 #
37) Toxaphene...	7.612	8.613f	123582	320261	76.524	97.313
38) Toxaphene...	7.938	8.667	44316	81870	13.160	16.153
39) Toxaphene...	8.157	8.759f	119658	561219	36.930	67.213 #
40) Toxaphene...	8.378	8.875f	112965	528291	47.125	113.358 #
41) Toxaphene...	8.460	9.272	1403206	382118	443.410	80.442 #
42) Toxaphene...	3.461	3.453	19502	336308	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 19:39  
Operator : MJB  
Sample : A9I0890-04RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

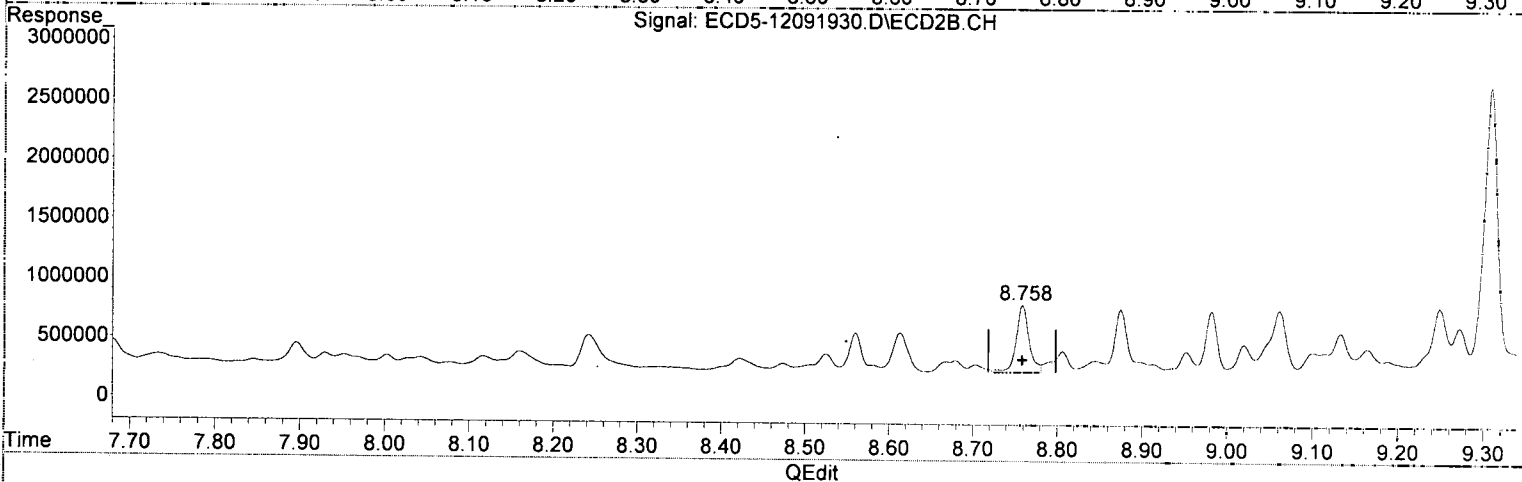
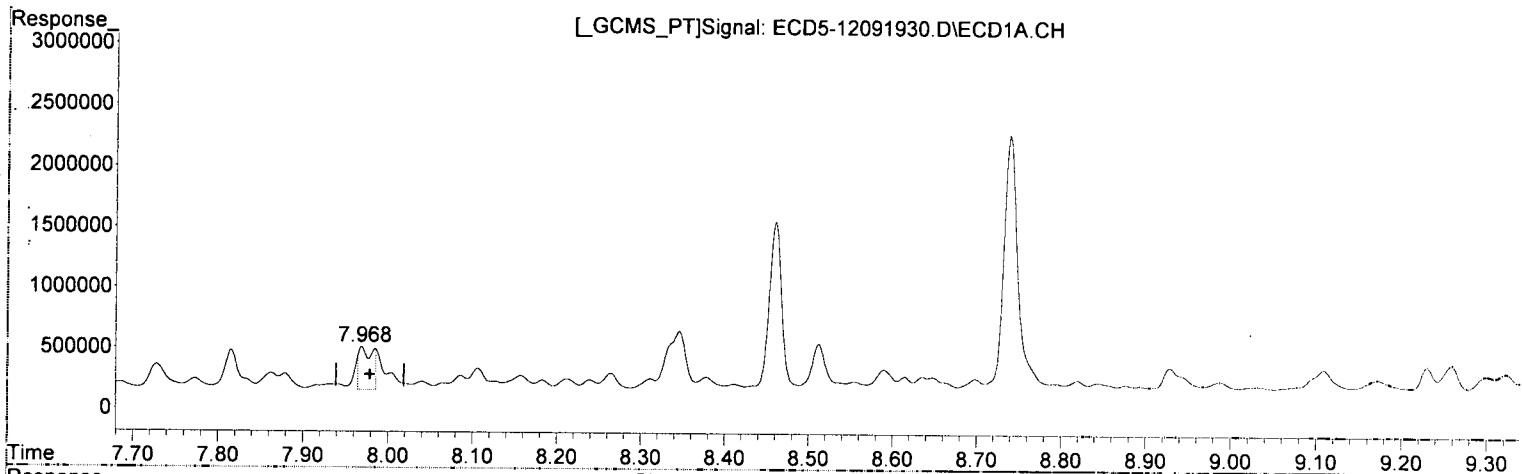
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 12:08:16 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 19:39  
Operator : MJB  
Sample : A9I0890-04RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

7.968min 2.962 ng/mL *2.02*

response 354131

*MJB*  
*12/10/19*

(17) 4,4'-DDT #2

8.759min 3.216 ng/mL *9.91*

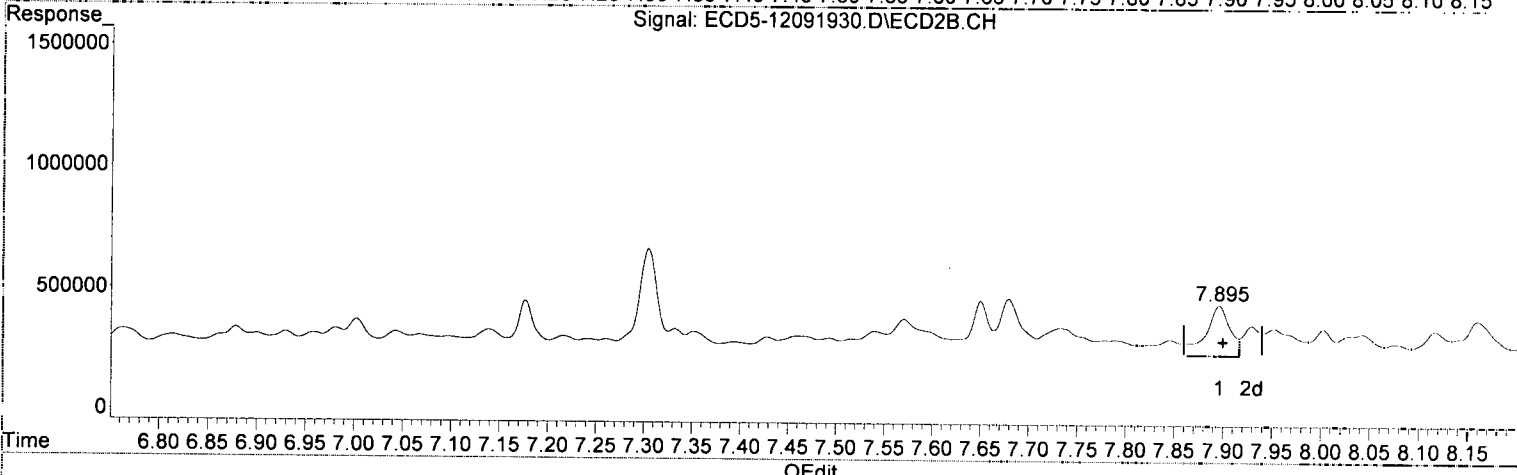
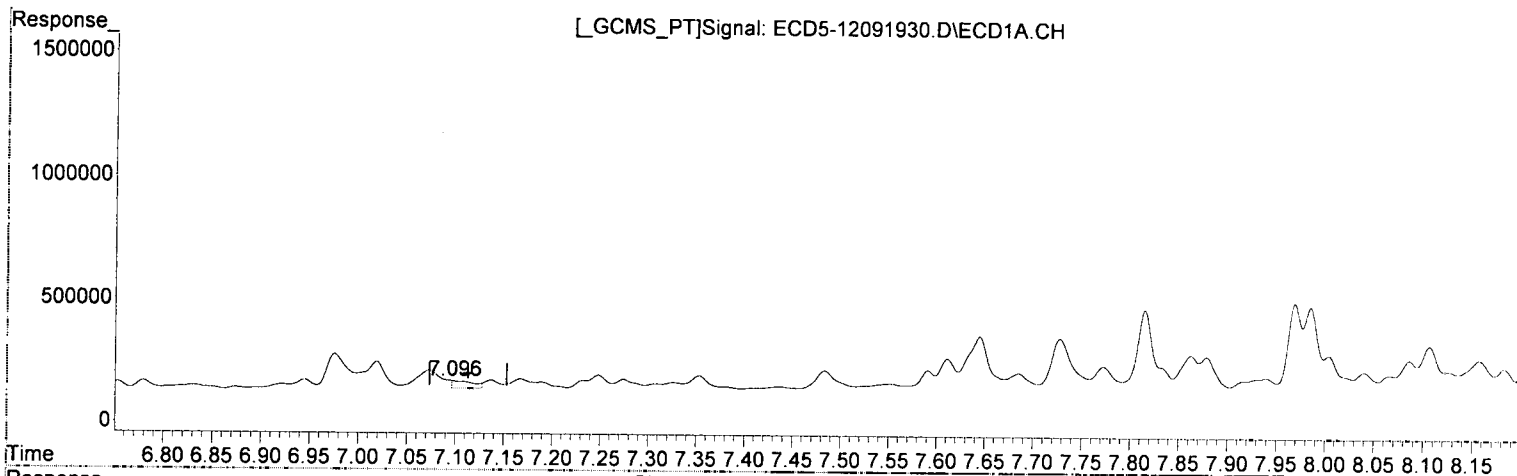
response 561219

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 19:39  
Operator : MJB  
Sample : A9I0890-04RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE  
7.096min 0.240 ng/mL(m)  
response 30787

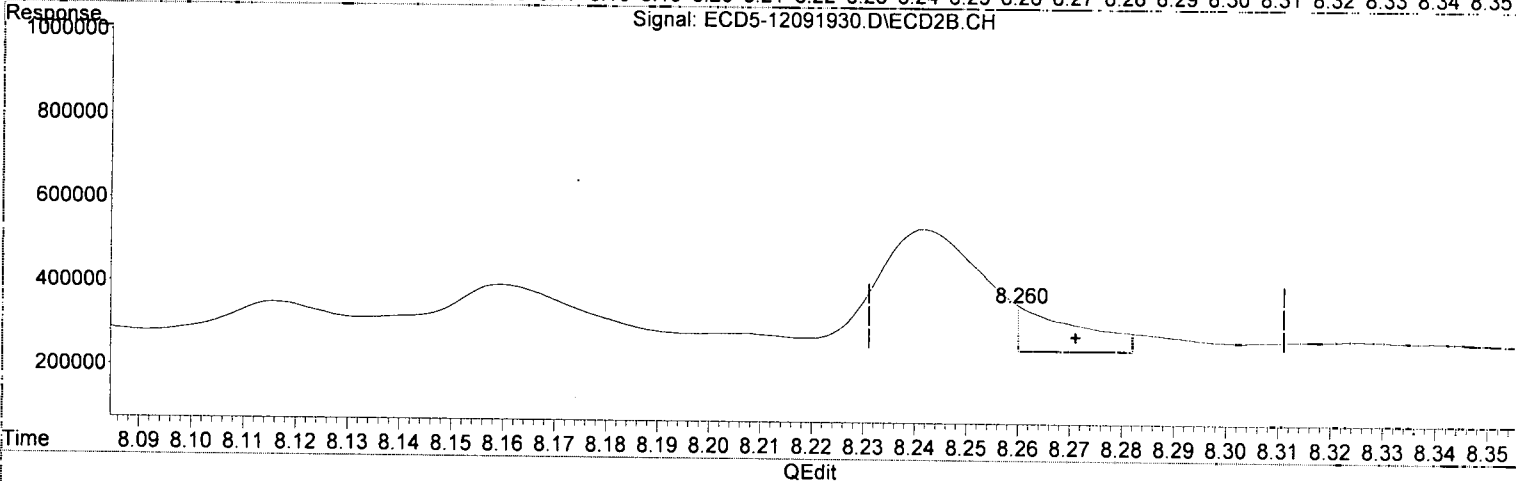
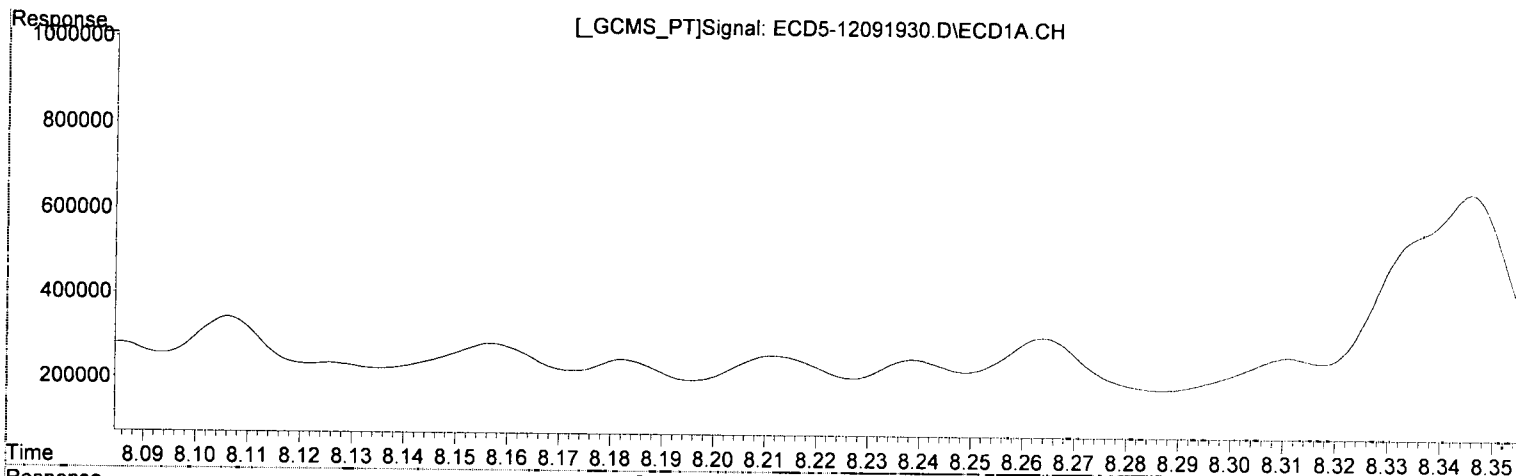
*MJB*  
*12/10/19*

(26) 2,4'-DDE #2  
7.896min 0.983 ng/mL  
response 208451

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 19:39  
Operator : MJB  
Sample : A9I0890-04RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD  
7.484min 0.635 ng/mL  
response 72510

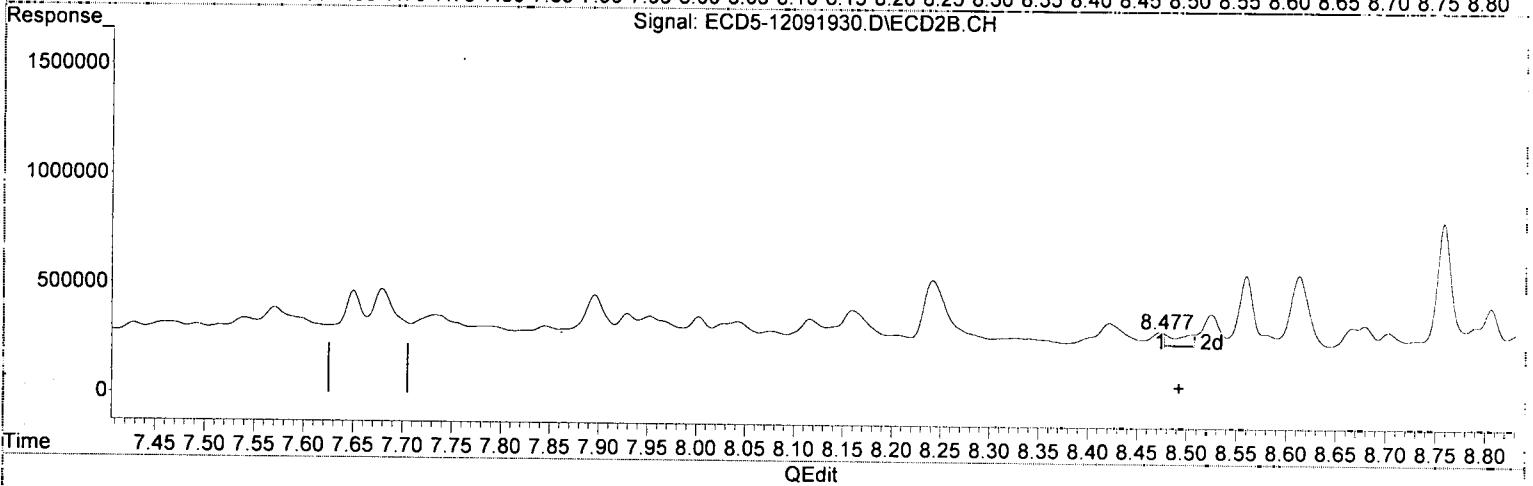
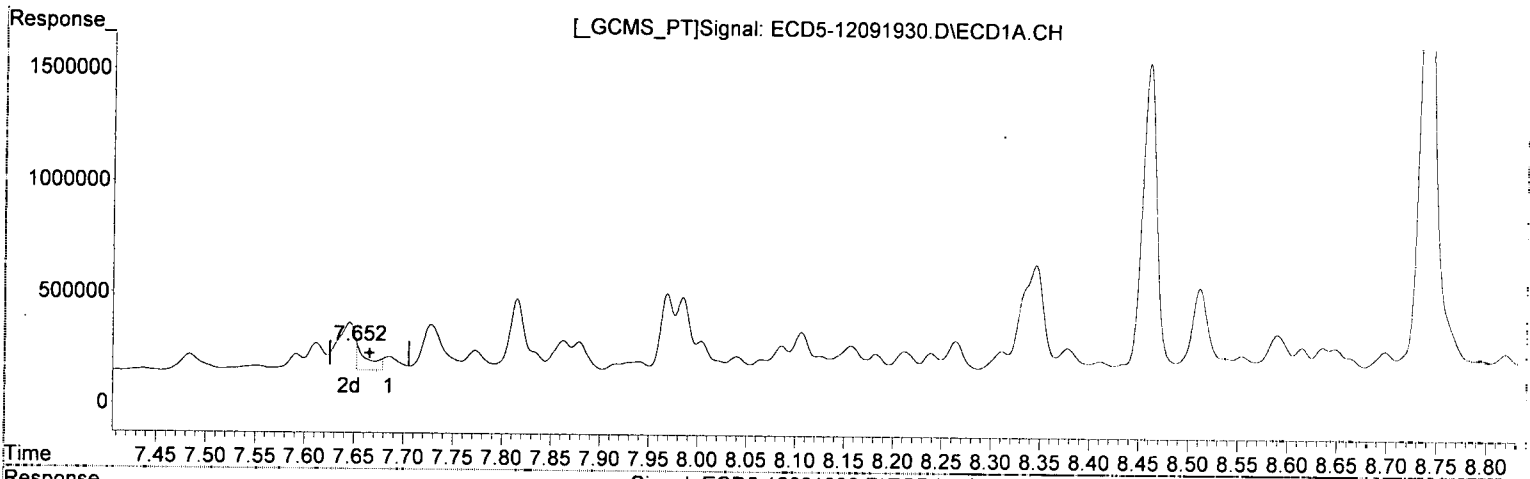
*MJB*  
*12/10/19*

(28) 2,4'-DDD #2  
8.260min 0.573 ng/mL  $\text{m}$   
response 108260

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 19:39  
Operator : MJB  
Sample : A9I0890-04RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.652min 1.119 ng/mL (m)  
response 122698

*MJB  
12/10/19*

(29) 2,4'-DDT #2

8.477min 0.318 ng/mL (m)  
response 56745

(+) = Expected Retention Time



Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091930.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 19:39  
 Operator : MJB  
 Sample : A9I0890-04RE1@2  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 10:36:05 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJ*  
*MJB*  
*12/10/19*

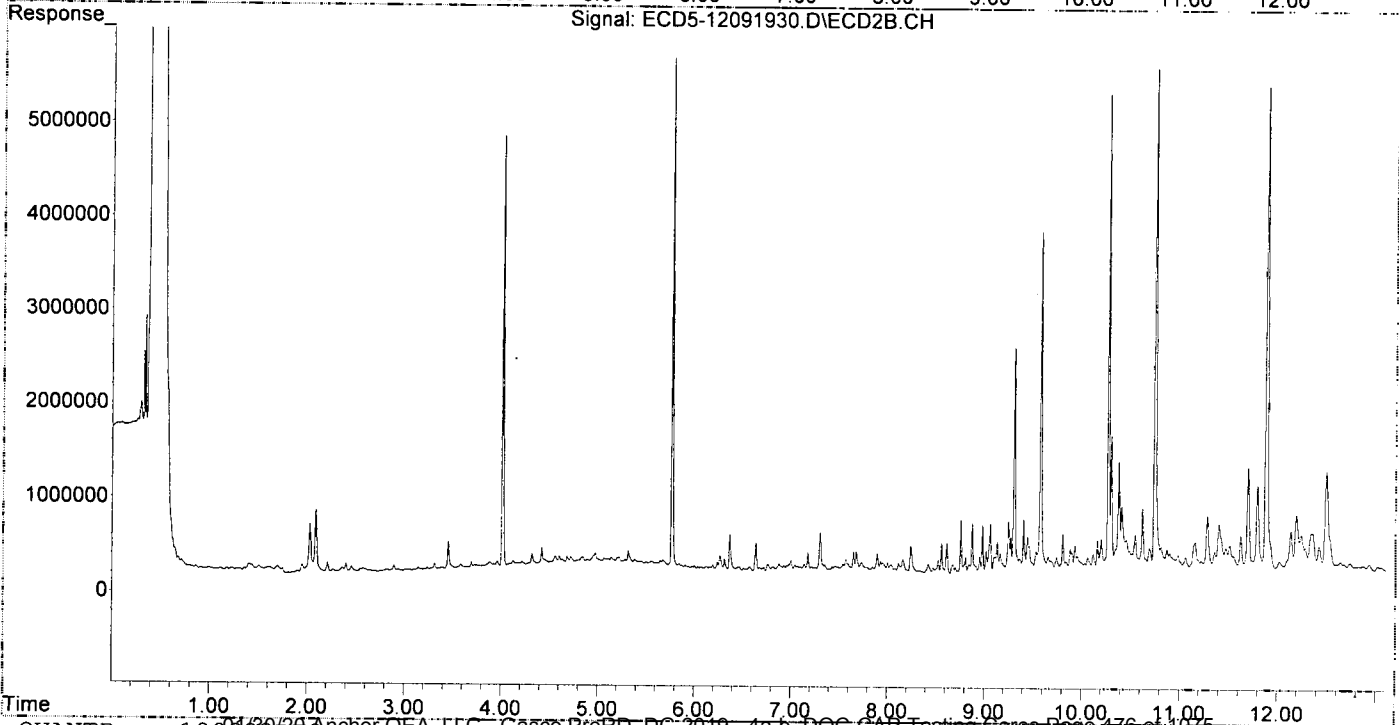
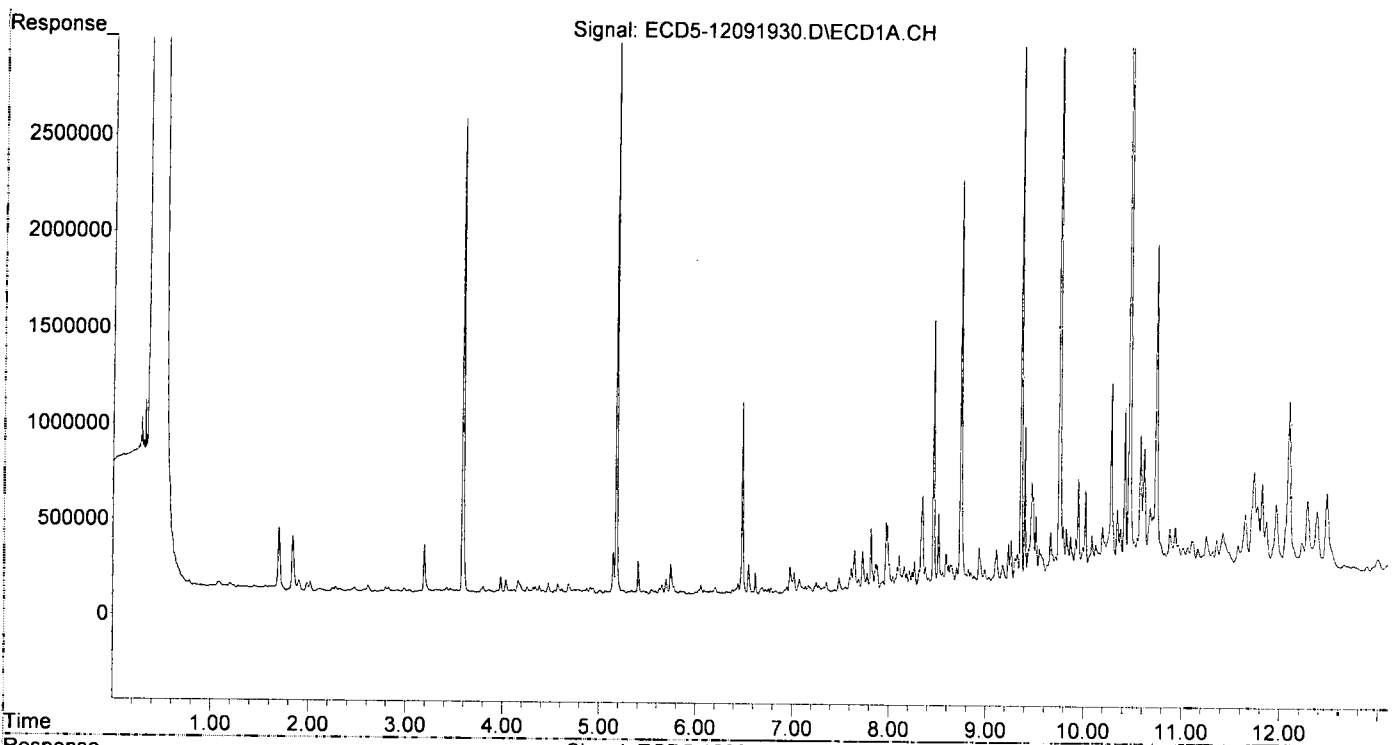
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.177	5.768	2852754	5479721	17.188	18.679
22) S DCBP (S)	9.358	10.270	3168455	5085627	22.456	28.291
Target Compounds						
2) a-BHC	5.691f	6.368	82107	411548	0.358	1.003 #
3) g-BHC	6.000	6.673f	10896	54256	0.054	0.152 #
4) b-BHC	6.088	6.763	20967	91100	0.232	0.576 #
5) Heptachlor	6.380f	7.067	24807	70906	0.137	0.232 #
6) d-BHC	6.201	7.003	35044	134897	0.178	0.383 #
7) Aldrin	6.617f	7.332	111816	99747	0.566	0.303 #
8) Heptachlo...	7.073f	7.733f	74404	111401	0.404	0.370
9) trans-Chl...	7.168f	7.896	38743	208451	0.210	0.665 #
10) cis-Chlor...	7.275f	8.002	37088	111008	0.204	0.381 #
11) Endosulfa...	7.353f	8.042	52289	90611	0.307	0.329
12) 4,4'-DDE	7.353	8.116	52289	104115	0.277	0.335
13) Dieldrin	7.551	8.242	21143	287610	0.110	0.946 #
14) Endrin	7.728	8.473	207094	59454	1.409	0.263 #
15) 4,4'-DDD	7.773	8.525	92066	140506	0.586	0.548
16) Endosulfa...	7.863	8.613	137724	320261	0.959	1.389 #
17) 4,4'-DDT	7.969	8.759	350439	561219	2.931	3.216
18) Endrin Al...	8.157	8.875	119658	528291	0.005	2.038 #
19) Endosulfa...	8.460	9.061	1403206	523244	9.054	2.101 #
20) Methoxychlor	8.345f	9.249	486452	549019	8.305	6.543
21) Endrin Ke...	8.637f	9.444	119466	376373	0.716	1.463 #
23) Hexachlor...	2.983	3.453f	20370	336308	0.111	0.895 #
24) Hexachlor...	5.539f	6.239	25273	116204	0.143	0.370 #
25) Oxychlordane	7.019	7.679	109746	230116	0.667	0.840
26) 2,4'-DDE	7.137f	7.896	34151	208451	0.266	0.983 #
27) trans-Non...	7.275	7.952	37088	112512	87346.493	0.373 #
28) 2,4'-DDD	7.484	8.242f	72510	287610	0.635	1.523 #
29) 2,4'-DDT	7.685	8.473	63161	59454	0.576	0.333 #
30) cis-Nonac...	7.773	8.525	92066	140506	0.443	0.419
31) Mirex	8.411	9.444	53865	376373	0.430	2.023 #
32) Chlordane...	7.248	7.952	54847	112512	2.786	3.109
33) Chlordane...	7.327	8.076	25111	49448	1.002	1.628 #
34) Chlordane...	7.863	8.703	137724	62142	23.823	6.931 #
35) Chlordane...	3.461	3.453	19502	336308	NoCal	NoCal
36) Toxaphene...	7.327	8.326f	25111	26960	28.036	10.273 #
37) Toxaphene...	7.612	8.613f	123582	320261	76.524	97.313
38) Toxaphene...	7.938	8.667	44316	81870	13.160	16.153
39) Toxaphene...	8.157	8.759f	119658	561219	36.930	67.213 #
40) Toxaphene...	8.378	8.875f	112965	528291	47.125	113.358 #
41) Toxaphene...	8.460	9.272	1403206	382118	443.410	80.442 #
42) Toxaphene...	3.461	3.453	19502	336308	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 19:39  
Operator : MJB  
Sample : A9I0890-04RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 22:10  
 Operator : MJB  
 Sample : 9L09034-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 12:53:52 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*2/10/19*

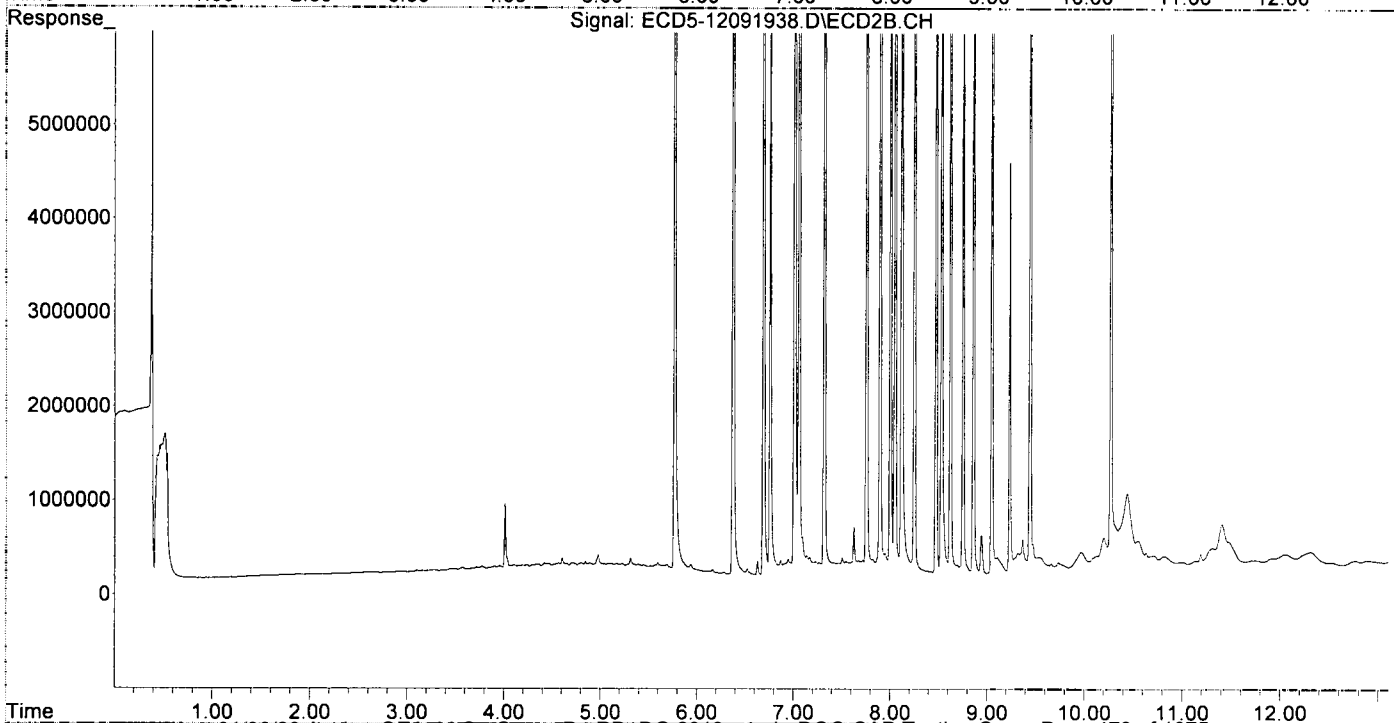
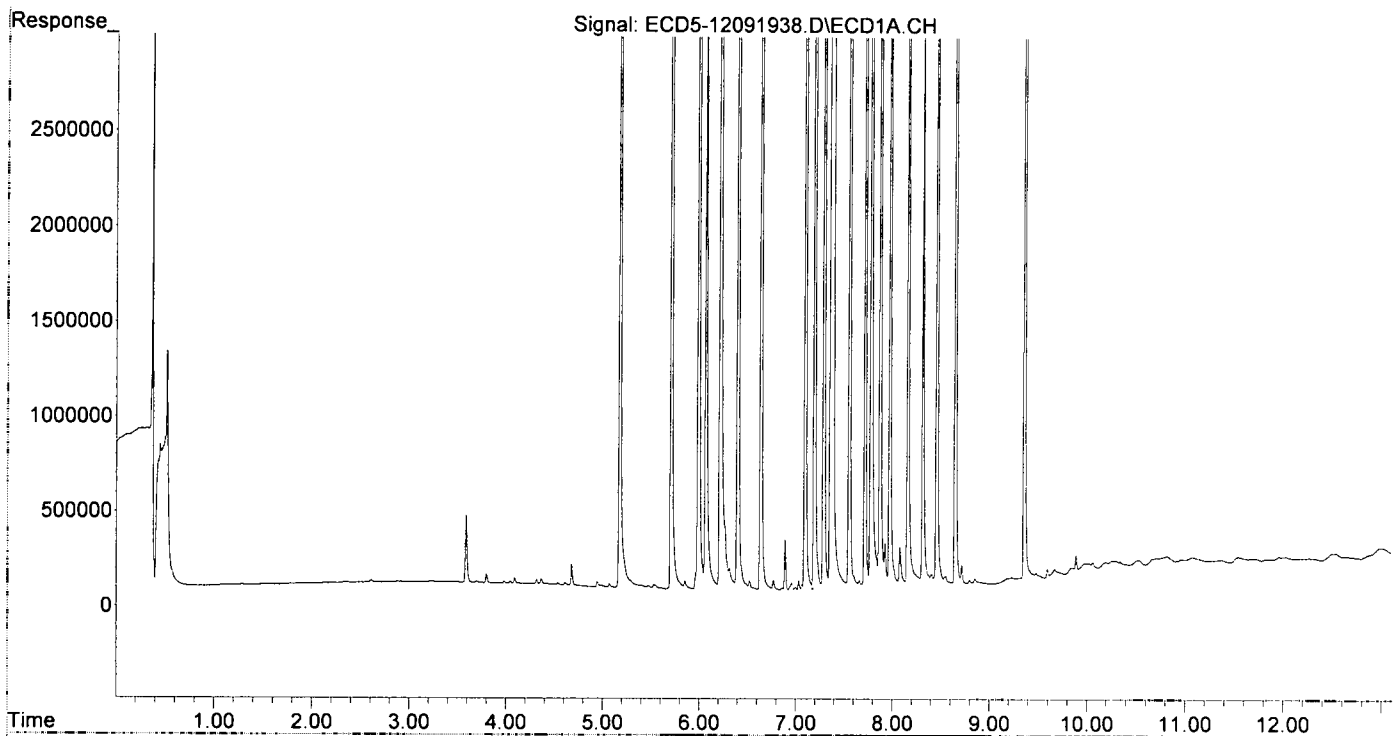
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.176	5.767	8610749	13047278	51.880	44.474
22) S DCBP (S)	9.360	10.269	6491375	10329310	46.006	57.461
Target Compounds						
2) a-BHC	5.709	6.372	12554672	20288776	54.745	49.444
3) g-BHC	5.991	6.688	10657528	17870587	52.818	50.099
4) b-BHC	6.068	6.757	3674291	6253328	40.652	39.512
5) Heptachlor	6.399	7.057	10023443	17194089	55.288	56.194
6) d-BHC	6.216	7.008	7977267	14383582	40.558	40.785
7) Aldrin	6.638	7.318	10250223	17084187	51.914	51.866
8) Heptachlo...	7.097	7.756	9538224	15459382	51.788	51.386
9) trans-Chl...	7.192	7.895	9412159	15490060	50.906	49.438
10) cis-Chlor...	7.290	8.003	9227058	14906136	50.678	51.180
11) Endosulfa...	7.382	8.050	9598340	13826910	56.401	50.247
12) 4,4'-DDE	7.359	8.117	8228743	12919054	43.647 <sup>m</sup>	41.584
13) Dieldrin	7.555	8.250	10178656	15387113	53.020	50.591
14) Endrin	7.717	8.474	8244060	11865463	56.072	52.542
15) 4,4'-DDD	7.778	8.530	6566867	10880697	41.790	42.467
16) Endosulfa...	7.872	8.622	7652396	11969424	53.285	51.904
17) 4,4'-DDT	7.974	8.753	6134615	9333410	51.310	49.664
18) Endrin Al...	8.160	8.859	6159561	10419222	50.175	52.859
19) Endosulfa...	8.459	9.049	7473979	11324884	48.226	45.465
20) Methoxychlor	8.315	9.234	2929239	4368130	50.009	48.821
21) Endrin Ke...	8.650	9.441	8751499	13376283	52.480	51.984
23) Hexachlor...	2.982	3.476	29877	21167	0.163	0.056 #
24) Hexachlor...	5.533 <sup>f</sup>	0.000	22202	0	0.126	N.D. #
25) Oxychlordane	7.033	7.674	46471	50846	0.282	0.186
26) 2,4'-DDE	7.097	7.895	9538224	15490060	74.366	73.019
27) trans-Non...	7.290	7.950	9227058	157586	51.215	0.522 #
28) 2,4'-DDD	0.000	8.250 <sup>f</sup>	0	15387113	N.D.	81.472 #
29) 2,4'-DDT	7.659	8.474	39026	11865463	0.356	66.533 #
30) cis-Nonac...	7.778 <sup>f</sup>	8.530	6566867	10880697	31.630	32.436
31) Mirex	8.405	9.441	59043	13376283	0.471	71.887 #
32) Chlordane...	0.000	7.950	0	157586	N.D.	4.355 #
33) Chlordane...	0.000	8.050	0	13826910	N.D.	455.371 #
34) Chlordane...	7.872	8.700	7652396	79978	1323.687	8.920 #
35) Chlordane...	0.000	3.450	0	16124	N.D.	NoCal
36) Toxaphene...	7.290 <sup>f</sup>	8.250 <sup>f</sup>	9227058	15387113	10302.110	5863.414 #
37) Toxaphene...	0.000	8.622	0	11969424	N.D.	3636.990 #
38) Toxaphene...	0.000	8.673	0	86724	N.D.	17.111 #
39) Toxaphene...	8.160	8.753	6159561	9333410	1901.010	1117.796 #
40) Toxaphene...	8.405 <sup>f</sup>	8.943 <sup>f</sup>	59043	410974	24.630	88.185 #
41) Toxaphene...	8.459	9.318 <sup>f</sup>	7473979	206321	2361.758	43.434 #
42) Toxaphene...	0.000	3.450	0	16124	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 22:10  
Operator : MJB  
Sample : 9L09034-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

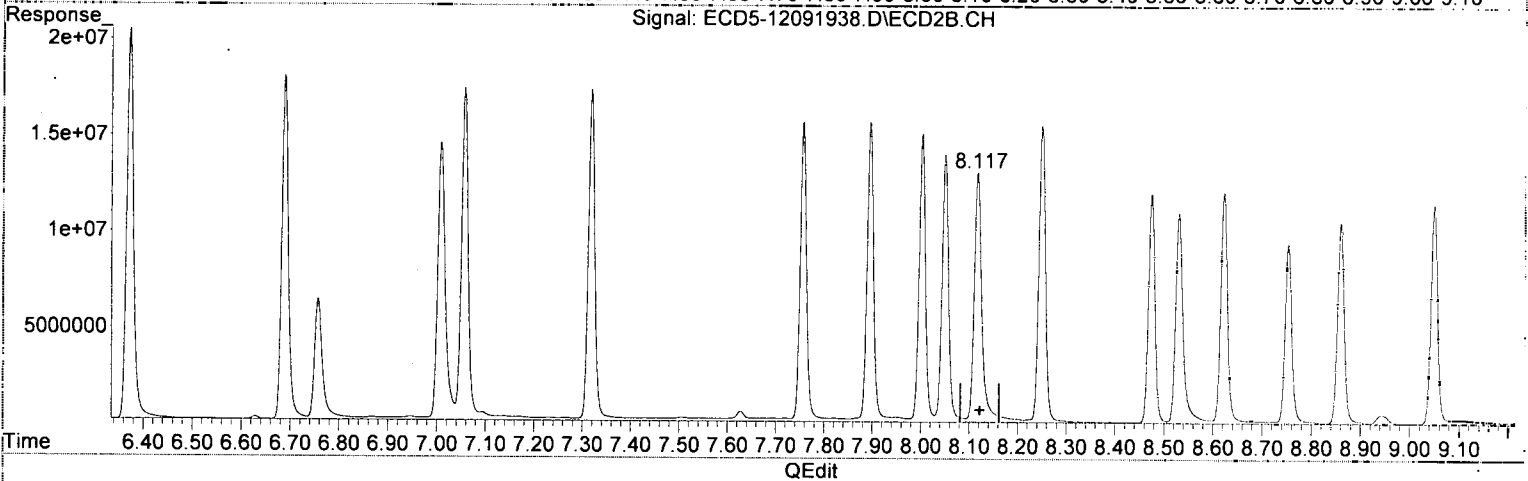
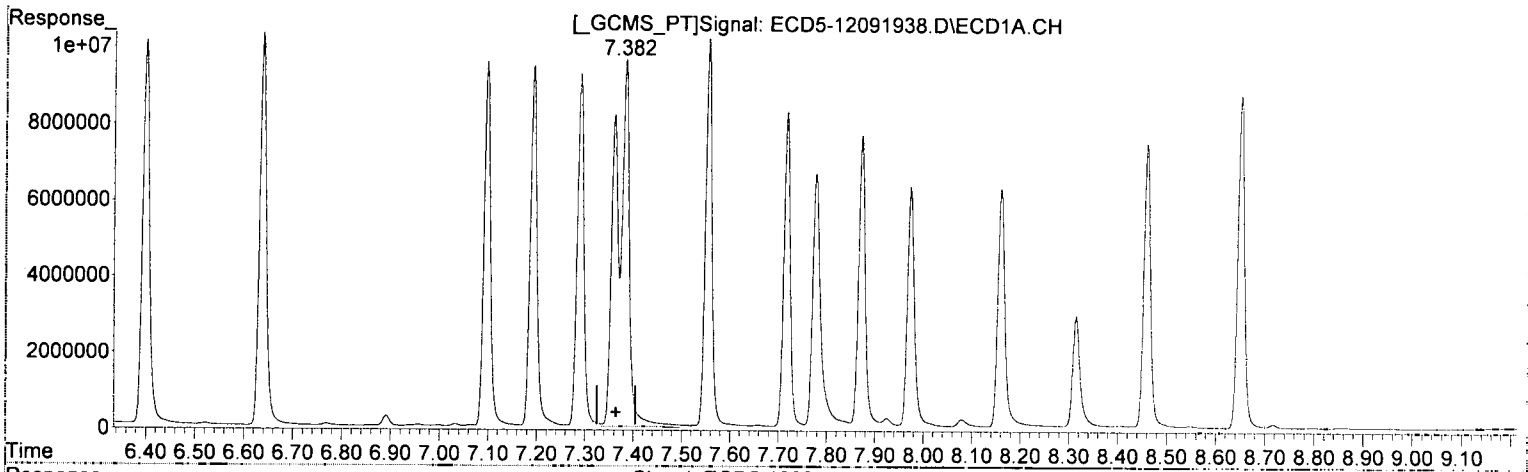
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 12:53:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 22:10  
Operator : MJB  
Sample : 9L09034-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.382min 50.912 ng/mL  
response 9598340

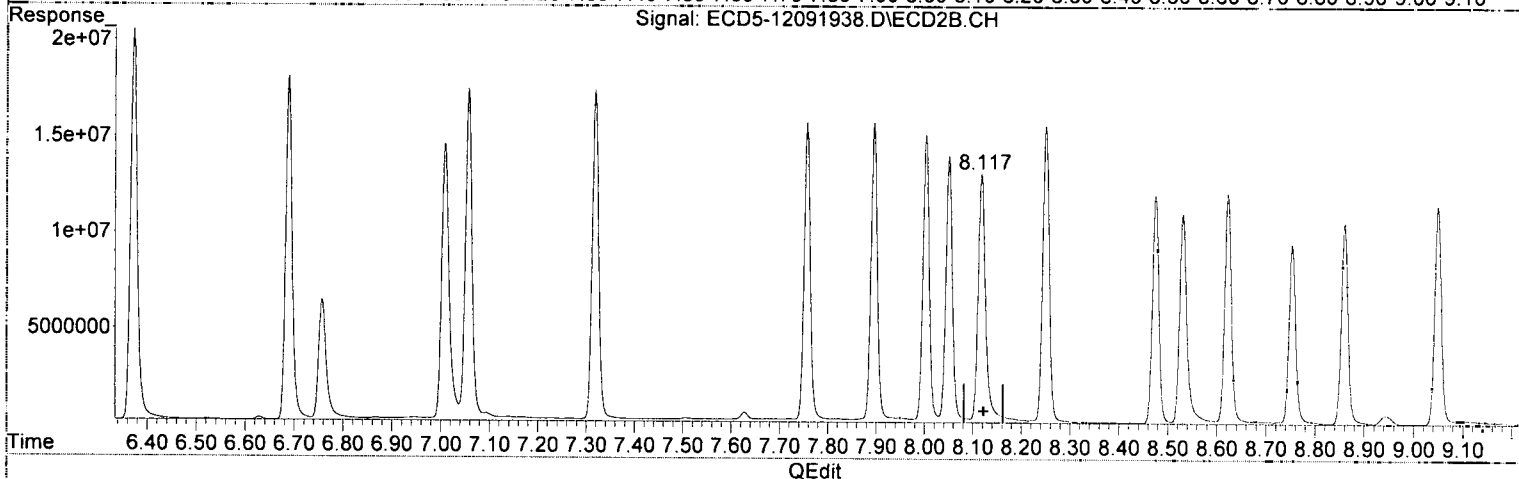
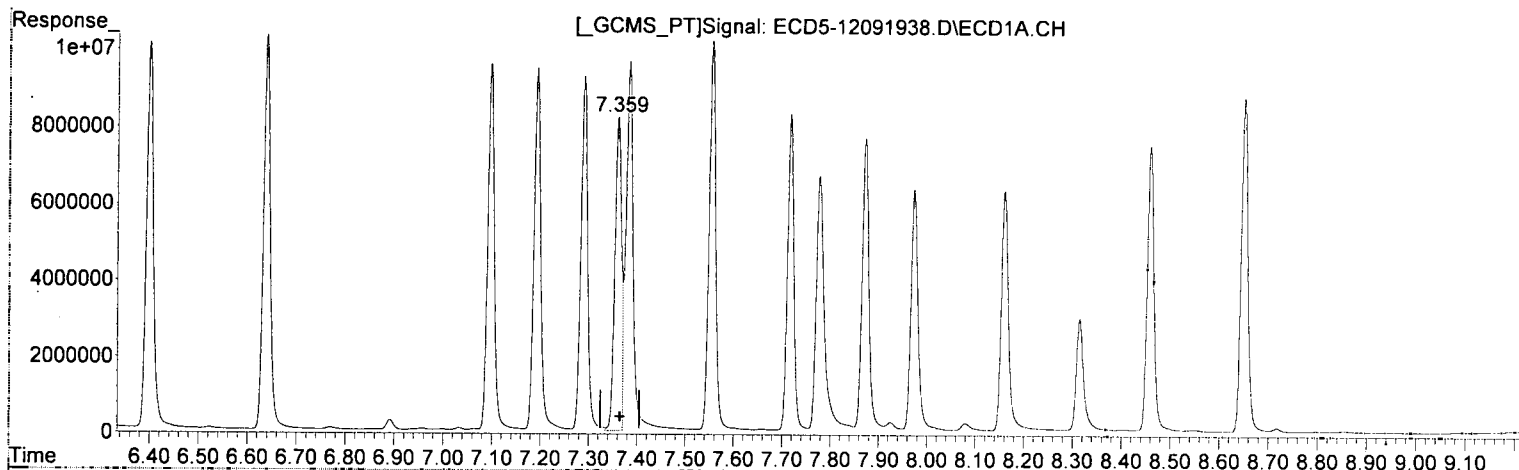
*MJB*  
*12/10/19*

(12) 4,4'-DDE #2  
8.117min 41.584 ng/mL  
response 12919054

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 22:10  
Operator : MJB  
Sample : 9L09034-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.359min 43.647 ng/mL (m)

response 8228743

*MJB*  
*12/11/19*

(12) 4,4'-DDE #2

8.117min 41.584 ng/mL

response 12919054

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 22:10  
 Operator : MJB  
 Sample : 9L09034-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 10:36:33 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

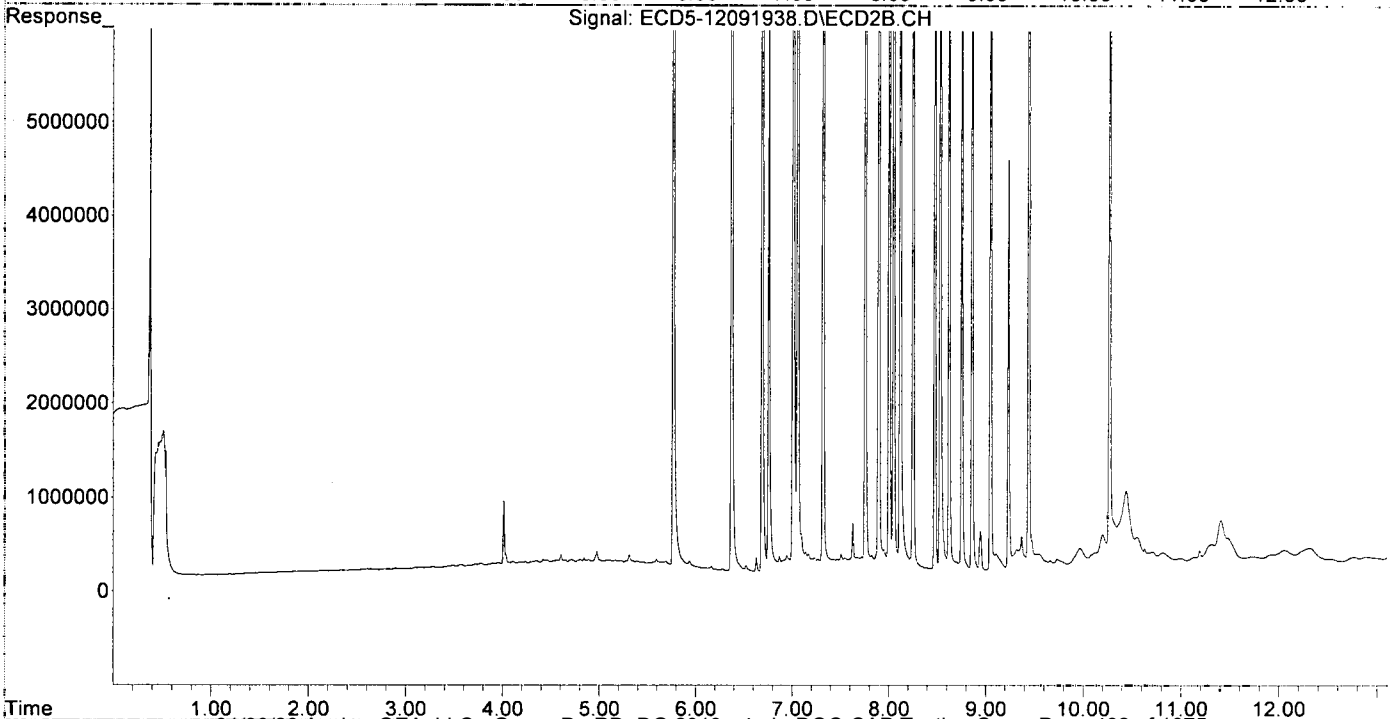
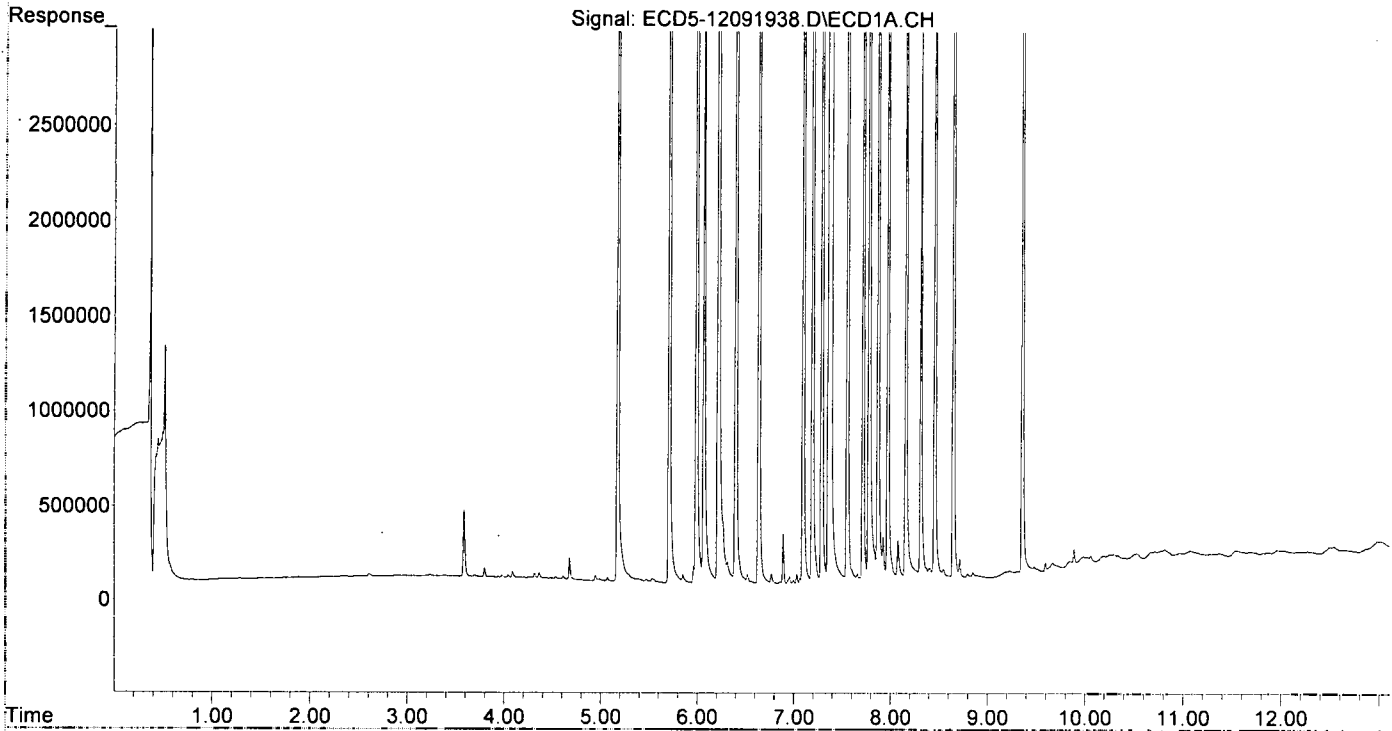
*MJB*  
*MJB*  
*12/10/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.176	5.767	8610749	13047278	51.880	44.474
22) S DCBP (S)	9.360	10.269	6491375	10329310	46.006	57.461
Target Compounds						
2) a-BHC	5.709	6.372	12554672	20288776	54.745	49.444
3) g-BHC	5.991	6.688	10657528	17870587	52.818	50.099
4) b-BHC	6.068	6.757	3674291	6253328	40.652	39.512
5) Heptachlor	6.399	7.057	10023443	17194089	55.288	56.194
6) d-BHC	6.216	7.008	7977267	14383582	40.558	40.785
7) Aldrin	6.638	7.318	10250223	17084187	51.914	51.866
8) Heptachlo...	7.097	7.756	9538224	15459382	51.788	51.386
9) trans-Chl...	7.192	7.895	9412159	15490060	50.906	49.438
10) cis-Chlor...	7.290	8.003	9227058	14906136	50.678	51.180
11) Endosulfa...	7.382	8.050	9598340	13826910	56.401	50.247
12) 4,4'-DDE	7.382	8.117	9598340	12919054	50.912	41.584
13) Dieldrin	7.555	8.250	10178656	15387113	53.020	50.591
14) Endrin	7.717	8.474	8244060	11865463	56.072	52.542
15) 4,4'-DDD	7.778	8.530	6566867	10880697	41.790	42.467
16) Endosulfa...	7.872	8.622	7652396	11969424	53.285	51.904
17) 4,4'-DDT	7.974	8.753	6134615	9333410	51.310	49.664
18) Endrin Al...	8.160	8.859	6159561	10419222	50.175	52.859
19) Endosulfa...	8.459	9.049	7473979	11324884	48.226	45.465
20) Methoxychlor	8.315	9.234	2929239	4368130	50.009	48.821
21) Endrin Ke...	8.650	9.441	8751499	13376283	52.480	51.984
23) Hexachlor...	2.982	3.476	29877	21167	0.163	0.056 #
24) Hexachlor...	5.533f	0.000	22202	0	0.126	N.D. #
25) Oxychlorane	7.033	7.674	46471	50846	0.282	0.186
26) 2,4'-DDE	7.097	7.895	9538224	15490060	74.366	73.019
27) trans-Non...	7.290	7.950	9227058	157586	51.215	0.522 #
28) 2,4'-DDD	0.000	8.250f	0	15387113	N.D.	81.472 #
29) 2,4'-DDT	7.659	8.474	39026	11865463	0.356	66.533 #
30) cis-Nonac...	7.778f	8.530	6566867	10880697	31.630	32.436
31) Mirex	8.405	9.441	59043	13376283	0.471	71.887 #
32) Chlordane...	0.000	7.950	0	157586	N.D.	4.355 #
33) Chlordane...	0.000	8.050	0	13826910	N.D.	455.371 #
34) Chlordane...	7.872	8.700	7652396	79978	1323.687	8.920 #
35) Chlordane...	0.000	3.450	0	16124	N.D.	NoCal
36) Toxaphene...	7.290f	8.250f	9227058	15387113	10302.110	5863.414 #
37) Toxaphene...	0.000	8.622	0	11969424	N.D.	3636.990 #
38) Toxaphene...	0.000	8.673	0	86724	N.D.	17.111 #
39) Toxaphene...	8.160	8.753	6159561	9333410	1901.010	1117.796 #
40) Toxaphene...	8.405f	8.943f	59043	410974	24.630	88.185 #
41) Toxaphene...	8.459	9.318f	7473979	206321	2361.758	43.434 #
42) Toxaphene...	0.000	3.450	0	16124	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 22:10  
Operator : MJB  
Sample : 9L09034-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091939.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 22:28  
 Operator : MJB  
 Sample : 9L09034-CCV6  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 10:36:39 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

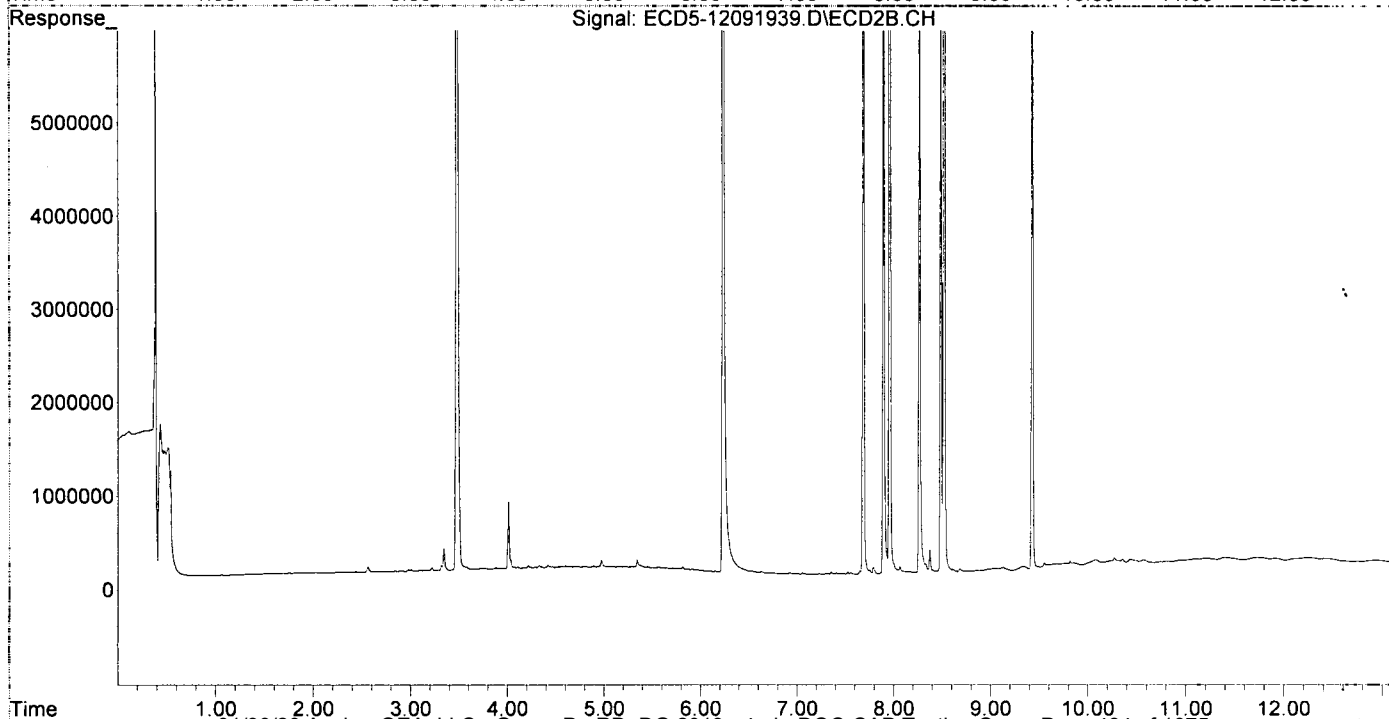
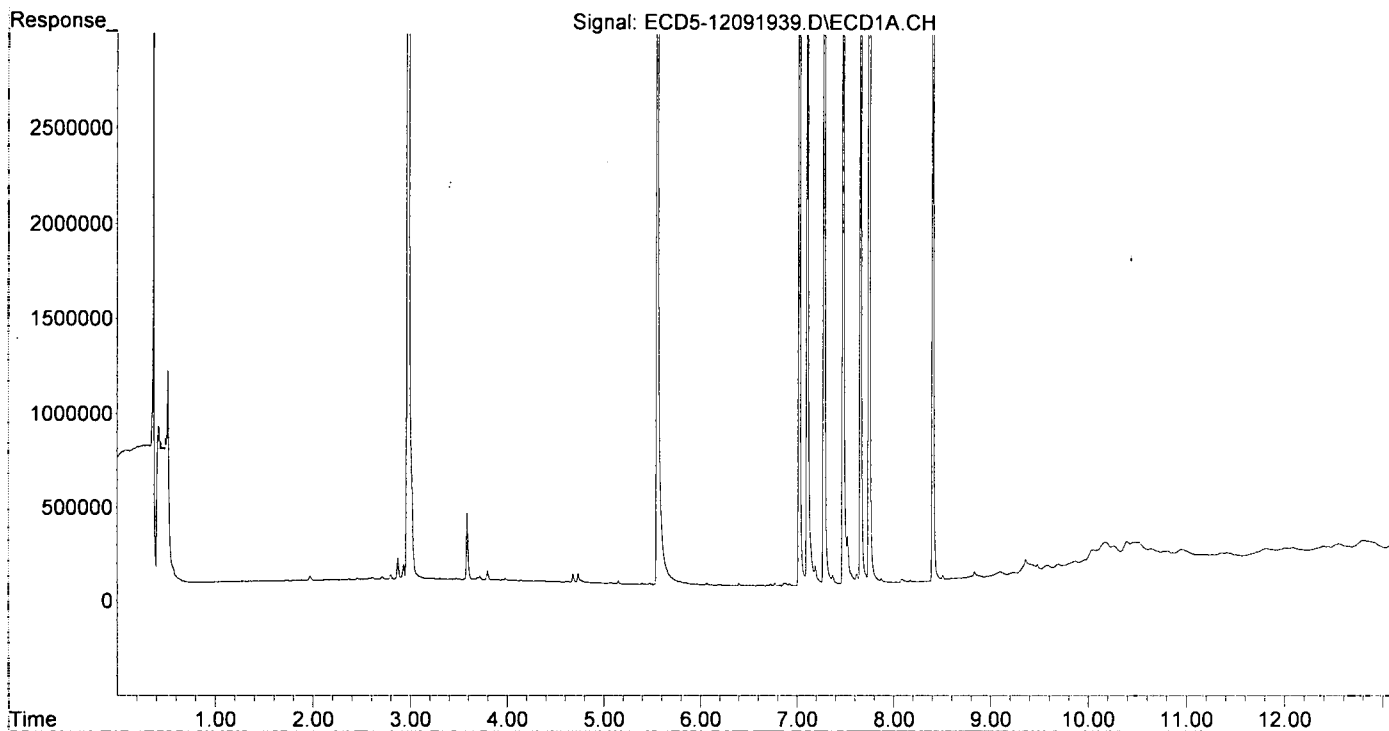
*MJB  
12/10/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.149f	0.000	15947	0	0.096	N.D.	#
22) S DCBP (S)	9.361	10.270	78665	66805	0.558	0.372	
Target Compounds							
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4) b-BHC	6.063	0.000	7879	0	0.087	N.D.	#
5) Heptachlor	6.399	7.056	13047	14732	0.072	0.048	
6) d-BHC	6.189f	0.000	5247	0	0.027	N.D.	#
7) Aldrin	0.000	7.308	0	8528	N.D.	0.026	#
8) Heptachlo...	7.109	7.753	5256093	41683	28.538	0.139	#
9) trans-Chl...	7.191	7.894	104192	8572025	0.564	27.358	#
10) cis-Chlor...	7.282	0.000	8465421	0	46.495	N.D.	#
11) Endosulfa...	7.369	8.066	52776	69761	0.310	0.254	
12) 4,4'-DDE	7.369	8.160f	52776	19624	0.280	0.063	#
13) Dieldrin	7.524f	8.266	260044	7722279	1.355	25.390	#
14) Endrin	7.749f	8.486	9836215	8286197	66.901	36.693	#
15) 4,4'-DDD	7.749f	8.521	9836215	15609355	62.595	60.923	
16) Endosulfa...	7.872	8.612	23257	28125	0.162	0.122	
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18) Endrin Al...	8.171	8.860	10539	10500	BelowCal	BelowCal	
19) Endosulfa...	0.000	9.048	0	23283	N.D.	0.093	#
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21) Endrin Ke...	8.655	9.426f	5760	8446188	0.035	32.824	#
23) Hexachlor...	2.977	3.474	8830796	19073326	48.325	50.736	
24) Hexachlor...	5.555	6.231	9001081	14131606	51.057	44.993	
25) Oxychlordane	7.026	7.685	7633700	12346443	46.395	45.076	
26) 2,4'-DDE	7.109	7.894	5256093	8572025	40.980	40.408	
27) trans-Non...	7.282	7.959	8465421	14039753	46.959	46.545	
28) 2,4'-DDD	7.479	8.266	4616866	7722279	40.454	40.888	
29) 2,4'-DDT	7.660	8.486	5308765	8286197	48.399	46.463	
30) cis-Nonac...	7.749	8.521	9836215	15609355	47.377	46.533	
31) Mirex	8.408	9.426	5741718	8446188	45.799	45.392	
32) Chlordane...	7.282f	7.959	8465421	14039753	429.943	388.004	
33) Chlordane...	7.369f	8.066	52776	69761	2.106	2.297	
34) Chlordane...	7.872	8.686f	23257	26176	4.023	2.920	
35) Chlordane...	3.472	3.437	13022	9500	NoCal	NoCal	
36) Toxaphene...	7.282f	8.266f	8465421	7722279	9451.734	2942.652	#
37) Toxaphene...	7.619	8.612f	54295	28125	33.621	8.546	#
38) Toxaphene...	0.000	8.686	0	26176	N.D.	5.165	#
39) Toxaphene...	8.171	0.000	10539	0	3.253	N.D.	#
40) Toxaphene...	8.408f	0.000	5741718	0	2395.235	N.D.	#
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42) Toxaphene...	3.472	3.474	13022	19073326	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091939.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 22:28  
 Operator : MJB  
 Sample : 9L09034-CCV6  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 10:36:39 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L09034\  
 Data File : ECD5-12091940.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 09 Dec 2019 22:45  
 Operator : MJB  
 Sample : 9L09034-CCB3  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 10:36:47 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*WB  
12/10/19*

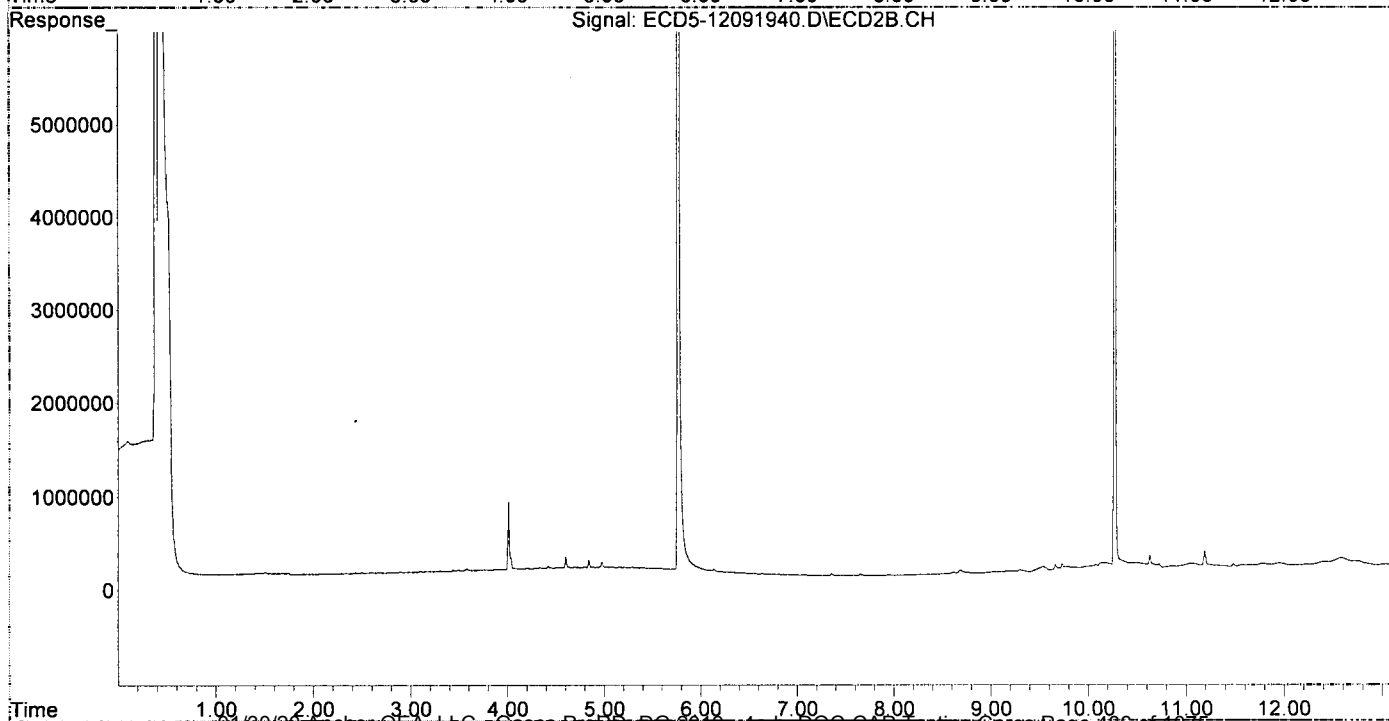
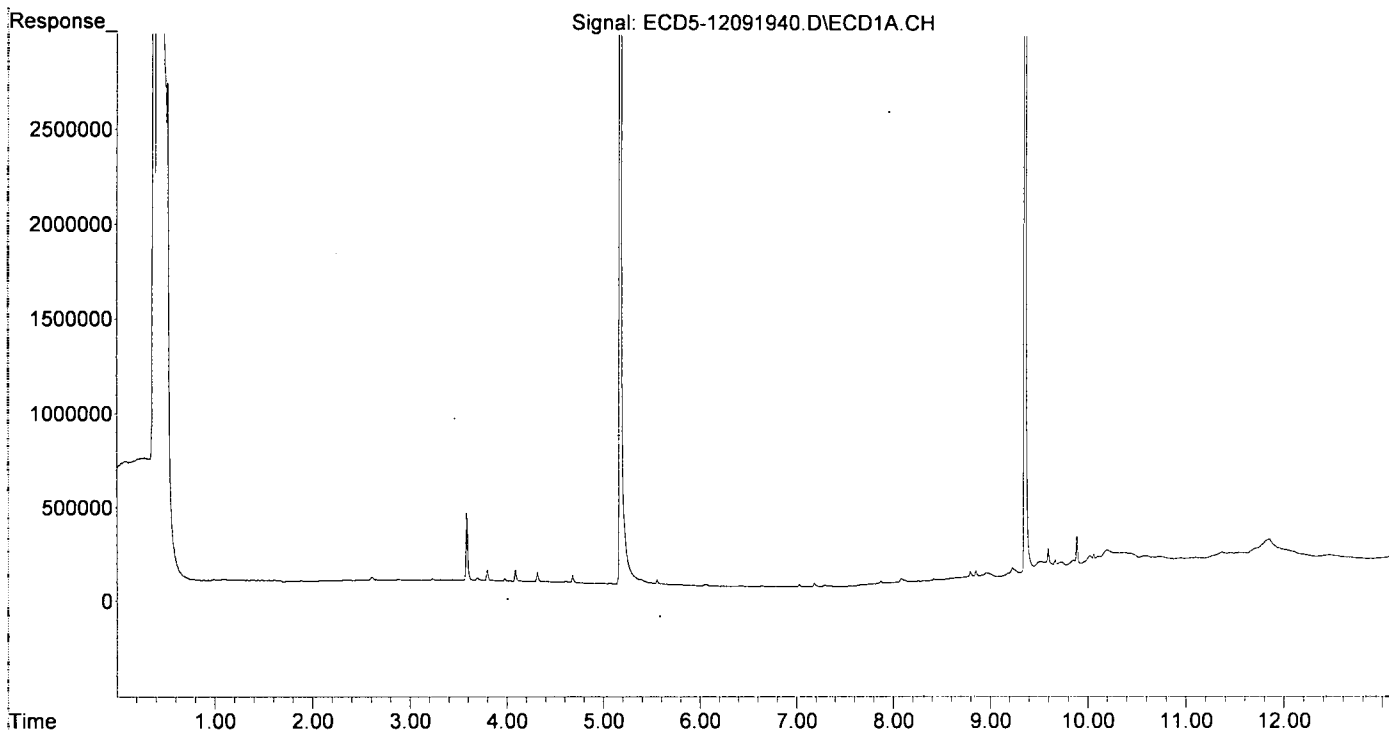
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.176	5.766	17910582	30374095	107.911	103.536
22) S DCBP (S)	9.360	10.270	13801223	21871951	97.813	121.671
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.065	0.000	8565	0	0.095	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.640	7.356f	5523	23312	0.028	0.071 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.186	7.938f	18222	3653	0.099	0.012 #
10) cis-Chlor...	7.289	0.000	6410	0	0.035	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	7.795	0.000	6198	0	0.039	N.D. #
16) Endosulfa...	7.872	8.613	17444	18236	0.121	0.079
17) 4,4'-DDT	0.000	8.768	0	7639	N.D.	0.006 #
18) Endrin Al...	8.163	0.000	8482	0	BelowCal	N.D.
19) Endosulfa...	8.462	9.048	7427	9738	0.048	0.039
20) Methoxychlor	8.313	9.221	6870	13015	0.117	BelowCal #
21) Endrin Ke...	0.000	0.000	0	0	N.D.	N.D.
23) Hexachlor...	0.000	3.497	0	10124	N.D.	0.027 #
24) Hexachlor...	5.555	0.000	20459	0	0.116	N.D. #
25) Oxychlordane	7.029	7.654f	10233	17282	0.062	0.063
26) 2,4'-DDE	0.000	7.938f	0	3653	N.D.	0.017 #
27) trans-Non...	7.289	7.938f	6410	3653	87346.665	0.012 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.673	0.000	6094	0	0.056	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.419	0.000	12151	0	0.097	N.D. #
32) Chlordane...	0.000	7.938	0	3653	N.D.	0.101 #
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.872	8.685f	17444	36877	3.017	4.113
35) Chlordane...	0.000	3.437	0	13892	N.D.	NoCal
36) Toxaphene...	7.289f	0.000	6410	0	7.157	N.D. #
37) Toxaphene...	0.000	8.613f	0	18236	N.D.	5.541 #
38) Toxaphene...	0.000	8.685	0	36877	N.D.	7.276 #
39) Toxaphene...	8.163	8.768f	8482	7639	2.618	0.915 #
40) Toxaphene...	8.419f	0.000	12151	0	5.069	N.D. #
41) Toxaphene...	8.462	9.301	7427	24848	2.347	5.231 #
42) Toxaphene...	0.000	3.437f	0	13892	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L09034\  
Data File : ECD5-12091940.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 09 Dec 2019 22:45  
Operator : MJB  
Sample : 9L09034-CCB3  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 10:36:47 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B  
Benchsheet & Analysis Sequence Data**

Sequence 9L10037 (A9I0890-03RE1)



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 9L10037

Instrument: DUALECD5

Date: 12/10/19 11:20

Calibration: A9H2608

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L10037-BKD1	Sediment	QC	QC				
2	9L10037-CCV1	Sediment	QC	QC				A19J201
3	9L10037-CCV2	Sediment	QC	QC				A19K133
4	9L10037-CCB1	Sediment	QC	QC				A19J408
5	A9I0890-03RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		A19L018
6	9L10037-IBL1	Sediment	QC	QC				
7	A9J0033-16RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
8	9L10037-IBL2	Sediment	QC	QC				
9	A9J0033-40RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
10	9L10037-IBL3	Sediment	QC	QC				
11	A9J0360-01RE1	Soil	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120511		
12	9L10037-IBL4	Sediment	QC	QC				
13	9120511-MS1	Soil	QC	QC		9120511		
14	9L10037-IBL5	Sediment	QC	QC				
15	9120511-MSD1	Soil	QC	QC		9120511		
16	9L10037-IBL6	Sediment	QC	QC				
17	9L10037-CCV3	Sediment	QC	QC				A19K134
18	9L10037-CCV4	Sediment	QC	QC				A19J409
19	9L10037-CCB2	Sediment	QC	QC				A19L018
20	9120580-BLK1	Sediment	QC	QC		9120580		
21	9120580-BS1	Sediment	QC	QC		9120580		
22	A9J0463-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
23	A9J0463-13RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
24	A9J0463-14RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
25	A9J0553-23RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
26	A9J0594-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
27	9120580-MS1	Sediment	QC	QC		9120580		
28	9120580-MSD1	Sediment	QC	QC		9120580		
29	A9J0553-09RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
30	9L10037-CCV5	Sediment	QC	QC				A19K133
31	9L10037-CCV6	Sediment	QC	QC				A19J408
32	9L10037-CCB3	Sediment	QC	QC				A19L018
33	9L10037-IBL7	Sediment	QC	QC				

Data Entered By: MB 12/11/19

Comments:

Data Reviewed By: MB 12/11/19

Data Path : C:\msdchem\4\data\2019-12\9L10037\  
 Data File : ECD5-12101903.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 12:07  
 Operator : MJB  
 Sample : 9L10037-BKD1  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 12:21:42 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.363	826970	NoCal	ng/mL
2) Endrin	7.719	84855146	NoCal	ng/mL
3) 4,4'-DDD	7.779	11288821	NoCal	ng/mL
4) 4,4'-DDT	7.975	139579835	NoCal	ng/mL
5) Endrin Aldehyde	8.161	2745802	NoCal	ng/mL
6) Endrin Ketone	8.652	5719232	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.118	1599859	NoCal	ng/mL
9) Endrin [2C]	8.474	118584523	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.529	17752148	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.857	4285582	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.752	186180539	NoCal	ng/mL
13) Endrin Ketone [2C]	9.440	7853619	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

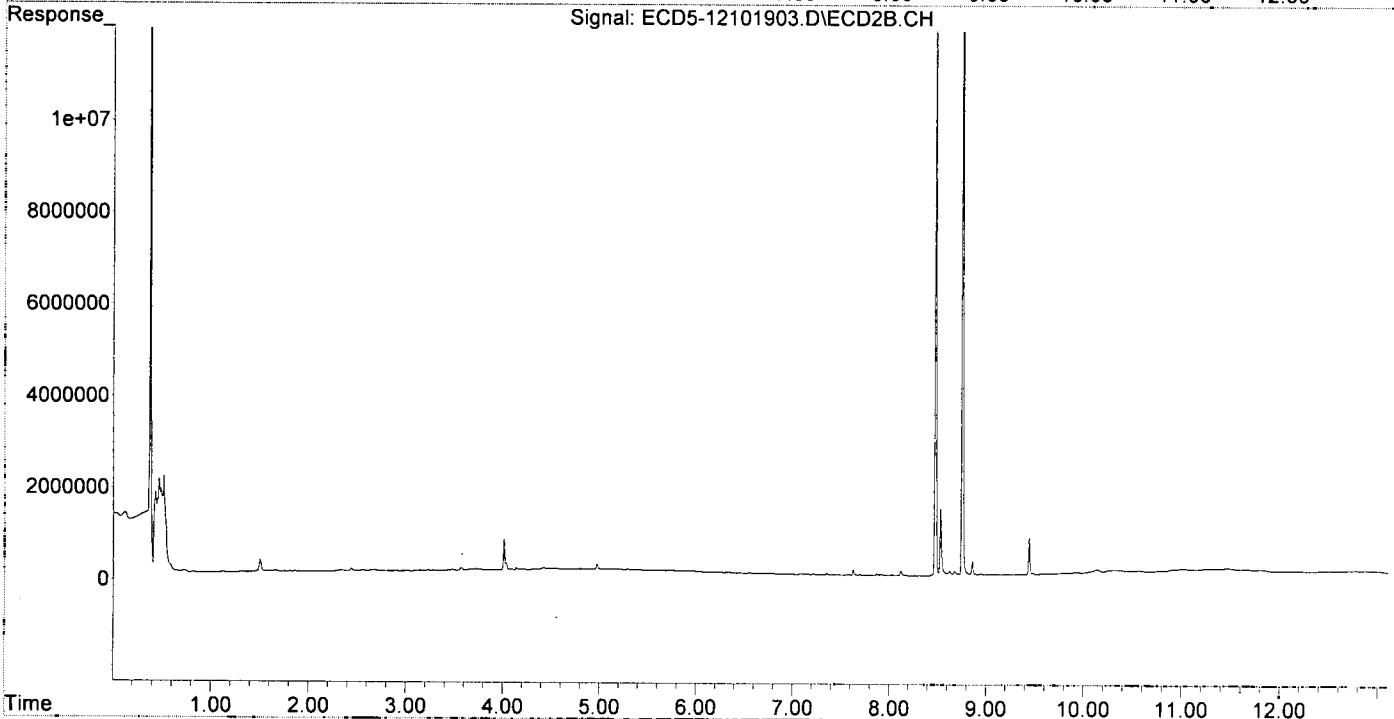
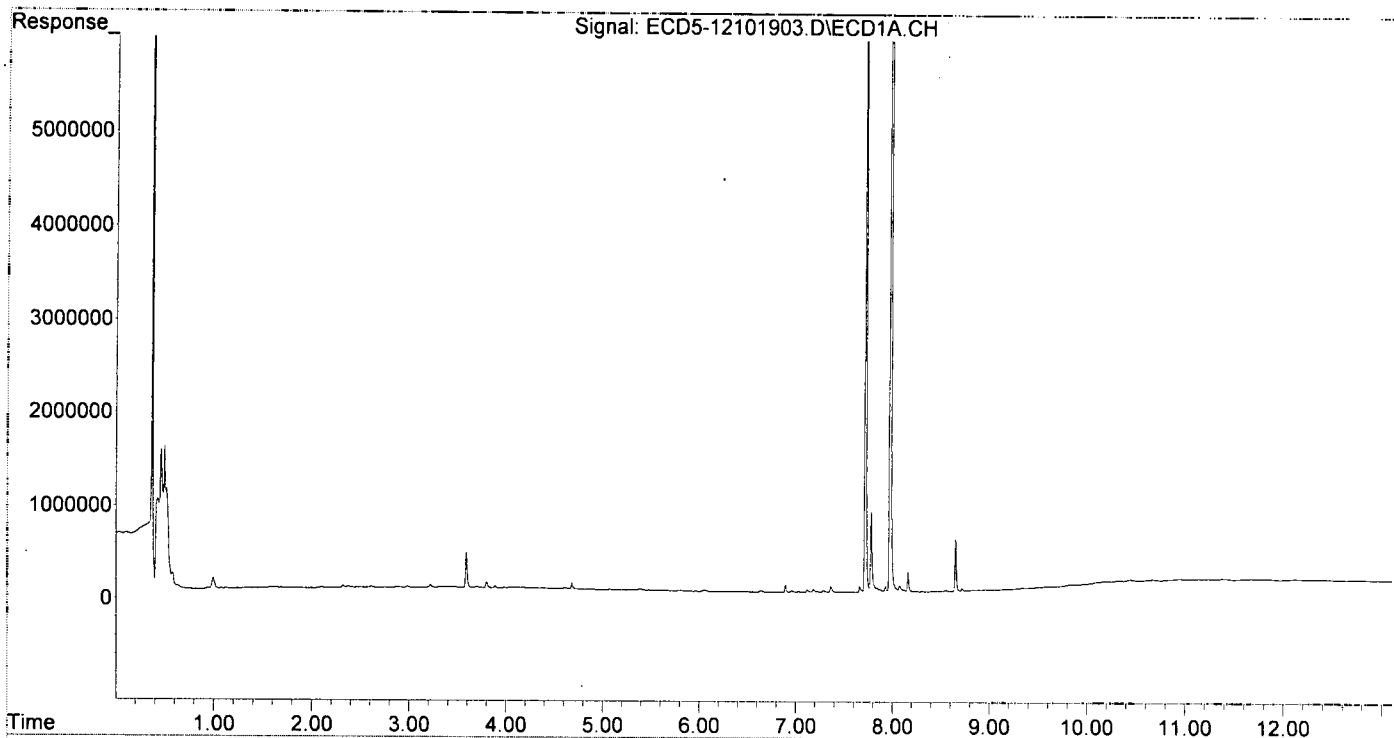
(m)=manual int.

*MJB*  
*12/10/19*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L10037\  
Data File : ECD5-12101903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 12:07  
Operator : MJB  
Sample : 9L10037-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 12:21:42 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 12:25  
 Operator : MJB  
 Sample : 9L10037-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:06:21 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

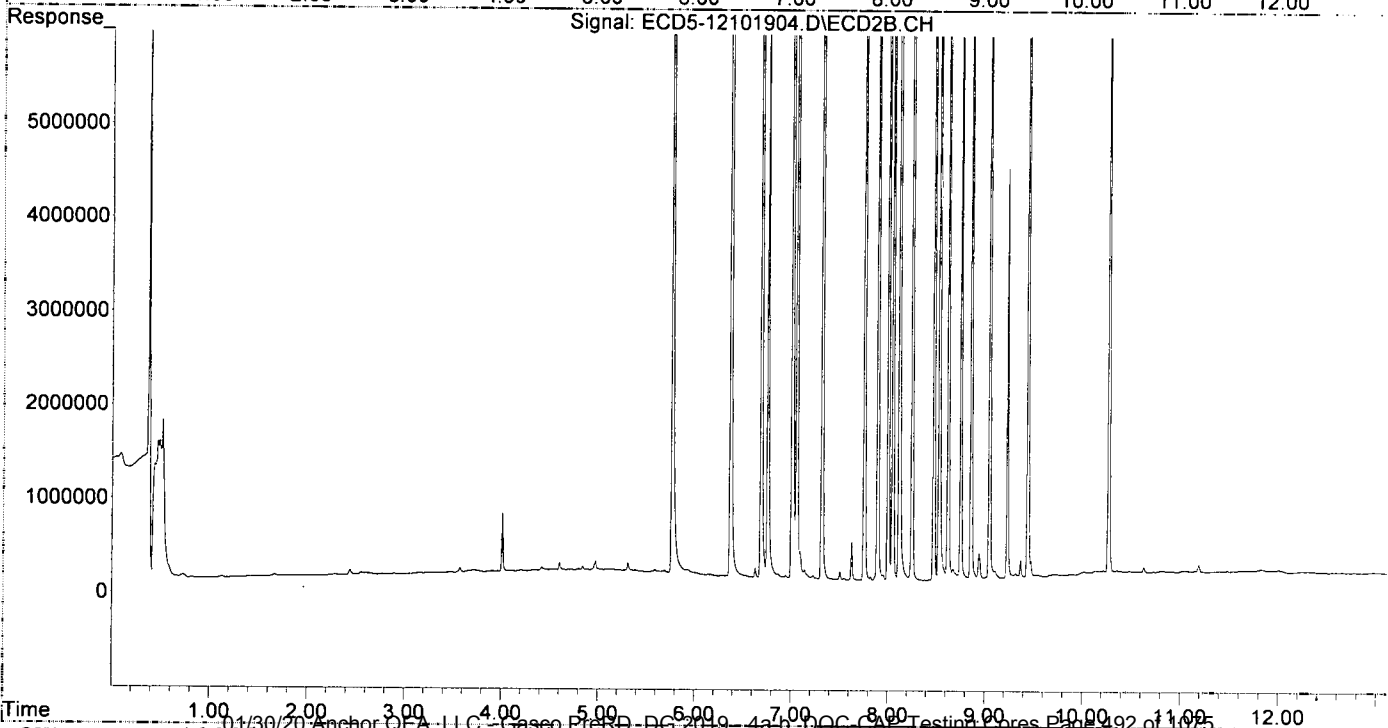
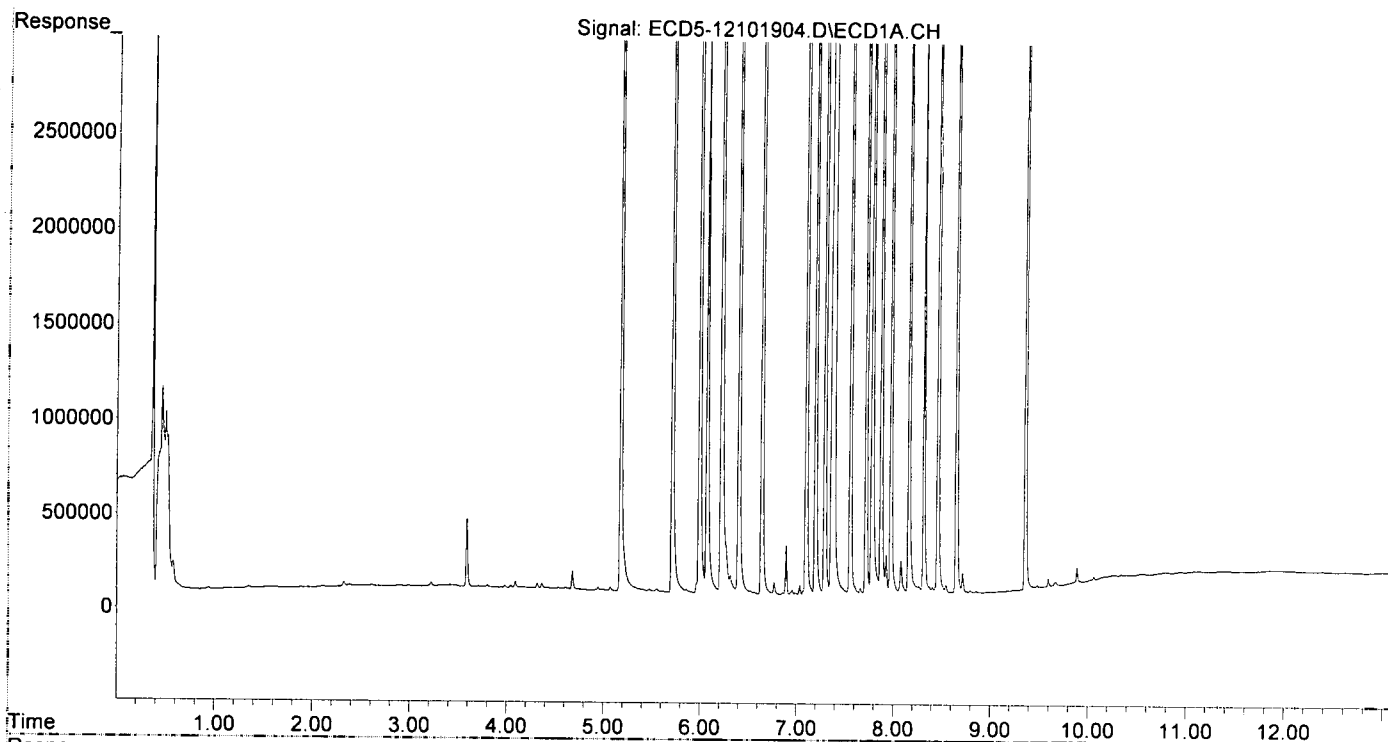
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.177	5.766	8266126	13457215	49.803	45.872
22) S DCBP (S)	9.360	10.268	6711876	9452330	47.569	52.582
Target Compounds						
2) a-BHC	5.711	6.371	12107528	21172719	52.795	51.598
3) g-BHC	5.992	6.687	10371186	17969208	51.399	50.376
4) b-BHC	6.069	6.756	3641457	6751861	40.289	42.661
5) Heptachlor	6.400	7.055	10041531	17044386	55.387	55.705
6) d-BHC	6.217	7.007	8184522	15743243	41.611	44.641
7) Aldrin	6.639	7.317	10074942	17389679	51.026	52.793
8) Heptachlo...	7.098	7.756	9063662	15018625	49.211	49.921
9) trans-Chl...	7.194	7.894	9419627	15844552	50.947	50.569
10) cis-Chlor...	7.291	8.002	9109661	15046456	50.034	51.662
11) Endosulfa...	7.383	8.049	9367794	13835554	55.046	50.279
12) 4,4'-DDE	7.360	8.116	8665183	13844777	45.962m	44.563
13) Dieldrin	7.556	8.248	10154437	15237260	52.893	50.098
14) Endrin	7.718	8.473	8307601	12208795	56.504	54.063
15) 4,4'-DDD	7.779	8.528	7425865	11612202	47.256	45.322
16) Endosulfa...	7.873	8.621	7545792	11642866	52.543	50.488
17) 4,4'-DDT	7.975	8.751	6399544	9193569	53.526	48.979
18) Endrin Al...	8.161	8.857	6497920	10031919	52.890	50.972
19) Endosulfa...	8.460	9.047	7410885	11268875	47.819	45.241
20) Methoxychlor	8.315	9.231	3086833	4351227	52.699	48.648
21) Endrin Ke...	8.651	9.440	8856603	12398240	53.110	48.183
23) Hexachlor...	0.000	3.474	0	9184	N.D.	0.024 #
24) Hexachlor...	5.553	0.000	15440	0	0.088	N.D. #
25) Oxychlordane	7.034	7.720f	47988	10680	0.292	0.039 #
26) 2,4'-DDE	7.098	7.894	9063662	15844552	70.666	74.690
27) trans-Non...	7.291	7.954	9109661	58019	50.559	0.192 #
28) 2,4'-DDD	0.000	8.248	0	15237260	N.D.	80.679 #
29) 2,4'-DDT	7.661	8.473	29413	12208795	0.268	68.458 #
30) cis-Nonac...	7.779f	8.528	7425865	11612202	35.767	34.617
31) Mirex	8.408	9.440	31067	12398240	0.248	66.631 #
32) Chlordane...	0.000	7.954	0	58019	N.D.	1.603 #
33) Chlordane...	0.000	8.049	0	13835554	N.D.	455.655 #
34) Chlordane...	7.873	8.720	7545792	50536	1305.247	5.637 #
35) Chlordane...	3.436f	3.445	11801	6073	NoCal	NoCal
36) Toxaphene...	7.291f	8.248f	9109661	15237260	10171.034	5806.312 #
37) Toxaphene...	0.000	8.621	0	11642866	N.D.	3537.763 #
38) Toxaphene...	0.000	8.673	0	114565	N.D.	22.604 #
39) Toxaphene...	8.161	8.720	6497920	50536	2005.436	6.052 #
40) Toxaphene...	8.408f	8.941f	31067	267680	12.960	57.438 #
41) Toxaphene...	8.460	9.317f	7410885	23828	2341.820	5.016 #
42) Toxaphene...	3.436f	3.445	11801	6073	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 12:25  
Operator : MJB  
Sample : 9L10037-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

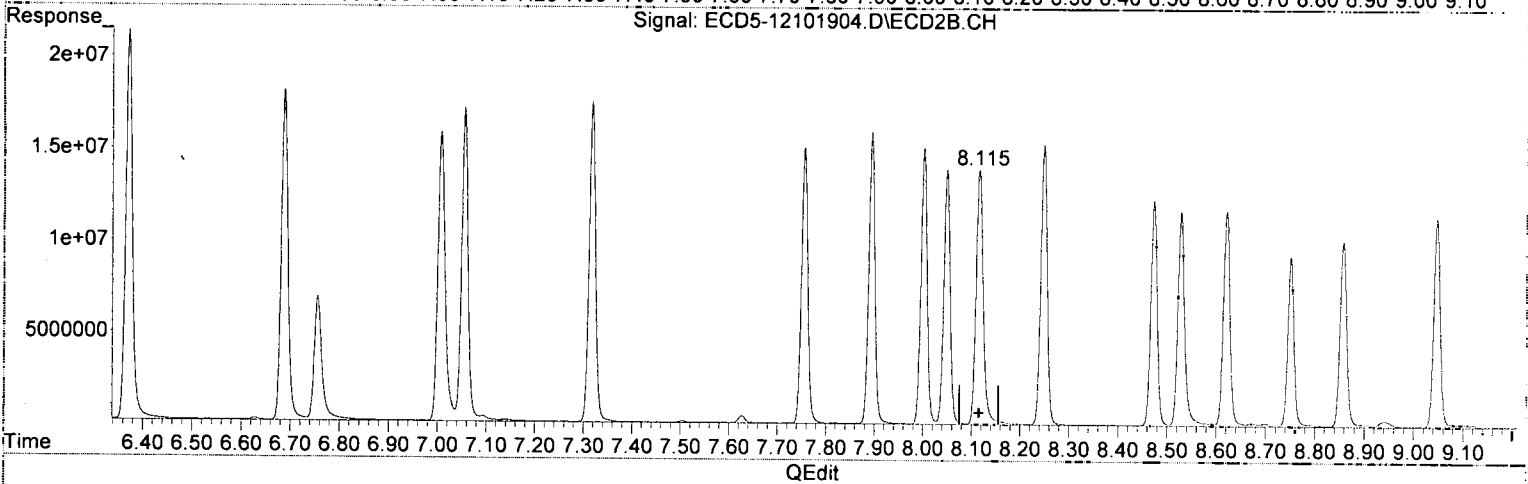
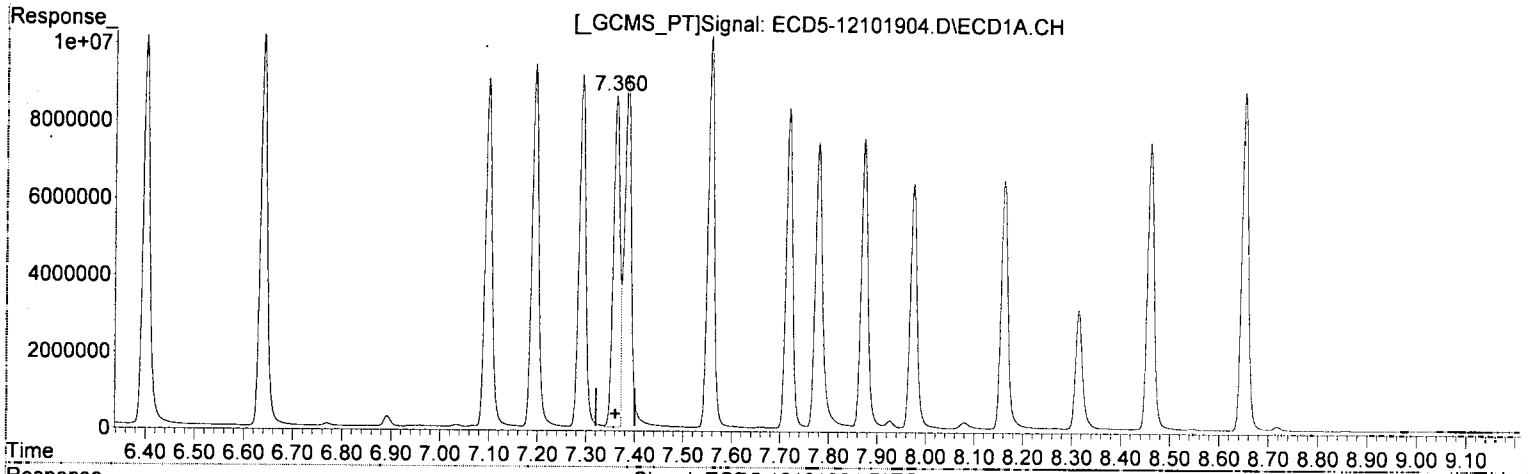
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:06:21 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 12:25  
 Operator : MJB  
 Sample : 9L10037-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:01:52 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.360min 45.962 ng/mL(m)

response 8665183

*MJB*  
*12/10/19*

(12) 4,4'-DDE #2

8.116min 44.563 ng/mL

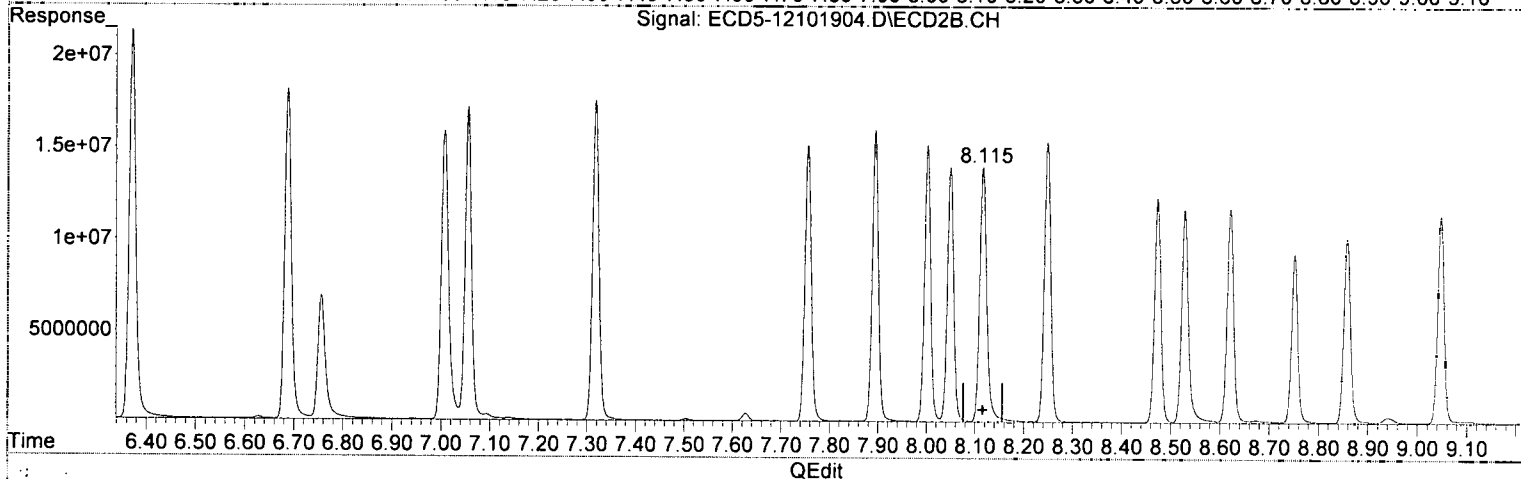
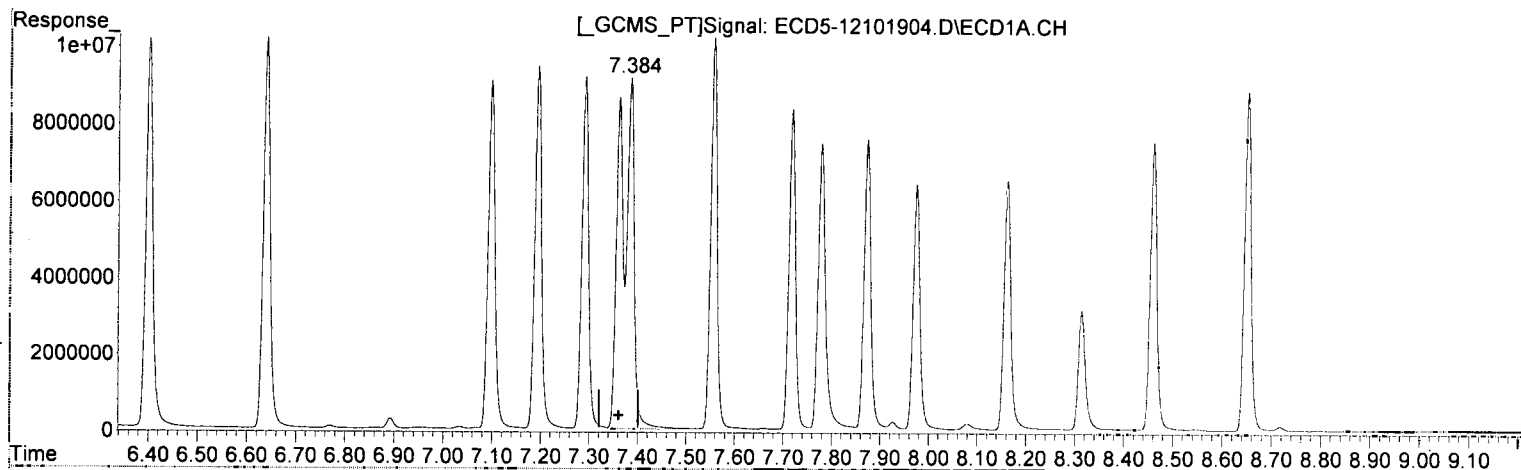
response 13844777

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 12:25  
Operator : MJB  
Sample : 9L10037-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:01:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.383min 49.689 ng/mL  
response 9367794

*MJB*  
*12/10/19*

(12) 4,4'-DDE #2  
8.116min 44.563 ng/mL  
response 13844777

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 12:25  
 Operator : MJB  
 Sample : 9L10037-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:01:52 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/10/19*

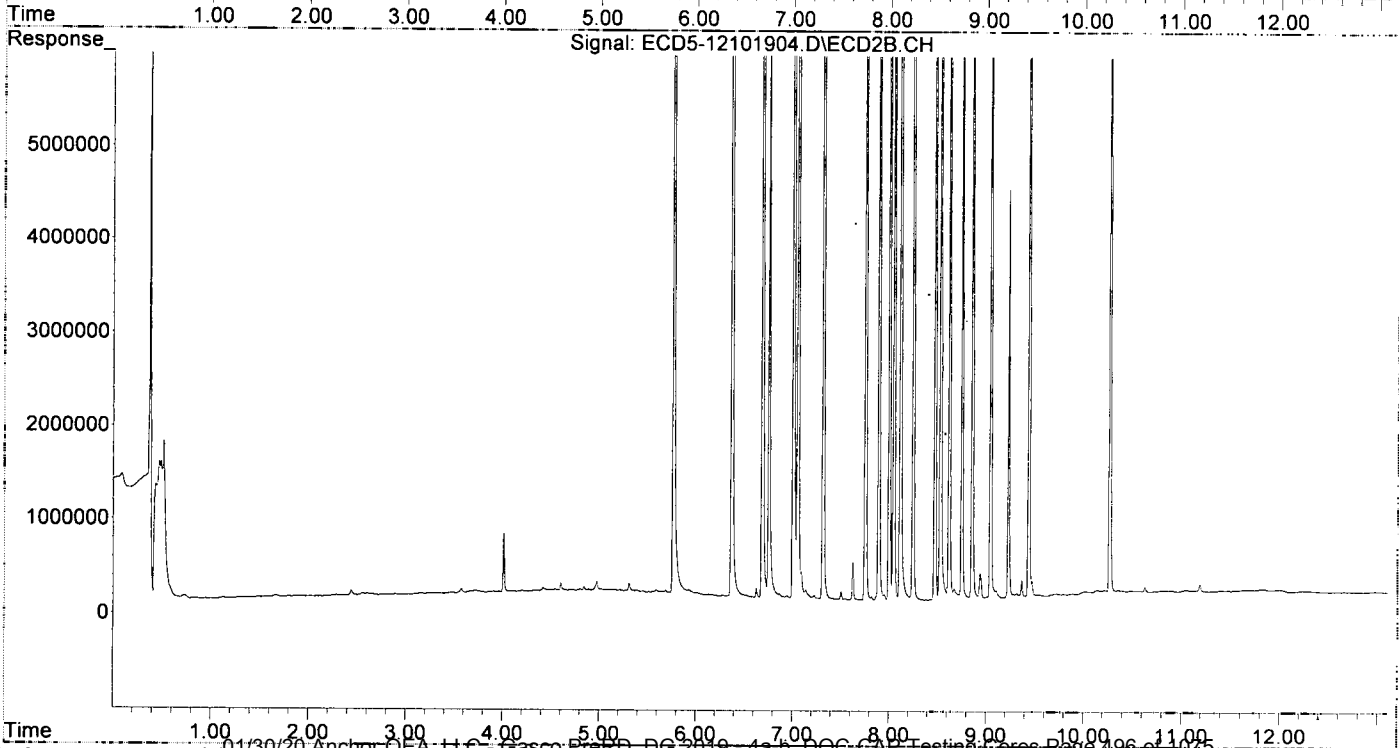
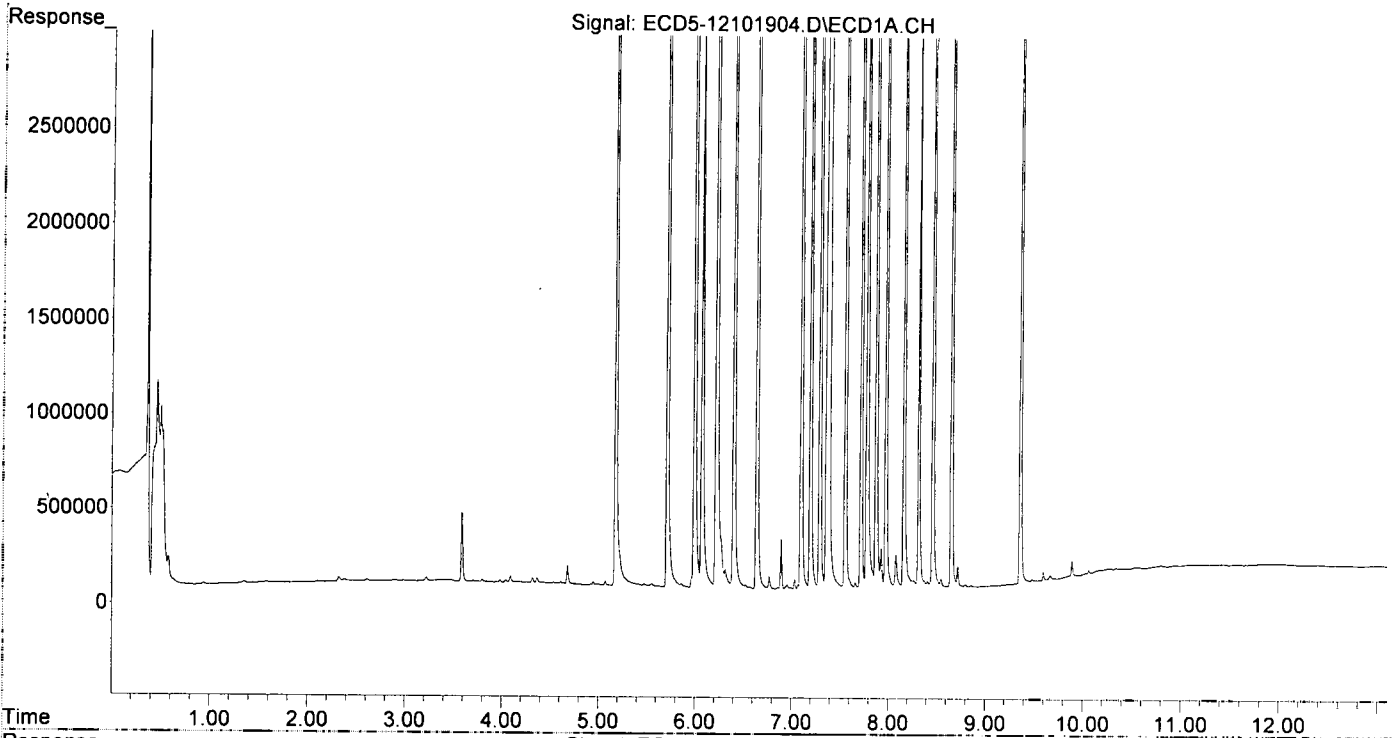
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.177	5.766	8266126	13457215	49.803	45.872
22) S DCBP (S)	9.360	10.268	6711876	9452330	47.569	52.582
Target Compounds						
2) a-BHC	5.711	6.371	12107528	21172719	52.795	51.598
3) g-BHC	5.992	6.687	10371186	17969208	51.399	50.376
4) b-BHC	6.069	6.756	3641457	6751861	40.289	42.661
5) Heptachlor	6.400	7.055	10041531	17044386	55.387	55.705
6) d-BHC	6.217	7.007	8184522	15743243	41.611	44.641
7) Aldrin	6.639	7.317	10074942	17389679	51.026	52.793
8) Heptachlo...	7.098	7.756	9063662	15018625	49.211	49.921
9) trans-Chl...	7.194	7.894	9419627	15844552	50.947	50.569
10) cis-Chlor...	7.291	8.002	9109661	15046456	50.034	51.662
11) Endosulfa...	7.383	8.049	9367794	13835554	55.046	50.279
12) 4,4'-DDE	7.383f	8.116	9367794	13844777	49.689	44.563
13) Dieldrin	7.556	8.248	10154437	15237260	52.893	50.098
14) Endrin	7.718	8.473	8307601	12208795	56.504	54.063
15) 4,4'-DDD	7.779	8.528	7425865	11612202	47.256	45.322
16) Endosulfa...	7.873	8.621	7545792	11642866	52.543	50.488
17) 4,4'-DDT	7.975	8.751	6399544	9193569	53.526	48.979
18) Endrin Al...	8.161	8.857	6497920	10031919	52.890	50.972
19) Endosulfa...	8.460	9.047	7410885	11268875	47.819	45.241
20) Methoxychlor	8.315	9.231	3086833	4351227	52.699	48.648
21) Endrin Ke...	8.651	9.440	8856603	12398240	53.110	48.183
23) Hexachlor...	0.000	3.474	0	9184	N.D.	0.024 #
24) Hexachlor...	5.553	0.000	15440	0	0.088	N.D. #
25) Oxylchlorane	7.034	7.720f	47988	10680	0.292	0.039 #
26) 2,4'-DDE	7.098	7.894	9063662	15844552	70.666	74.690
27) trans-Non...	7.291	7.954	9109661	58019	50.559	0.192 #
28) 2,4'-DDD	0.000	8.248	0	15237260	N.D.	80.679 #
29) 2,4'-DDT	7.661	8.473	29413	12208795	0.268	68.458 #
30) cis-Nonac...	7.779f	8.528	7425865	11612202	35.767	34.617
31) Mirex	8.408	9.440	31067	12398240	0.248	66.631 #
32) Chlordane...	0.000	7.954	0	58019	N.D.	1.603 #
33) Chlordane...	0.000	8.049	0	13835554	N.D.	455.655 #
34) Chlordane...	7.873	8.720	7545792	50536	1305.247	5.637 #
35) Chlordane...	3.436f	3.445	11801	6073	NoCal	NoCal
36) Toxaphene...	7.291f	8.248f	9109661	15237260	10171.034	5806.312 #
37) Toxaphene...	0.000	8.621	0	11642866	N.D.	3537.763 #
38) Toxaphene...	0.000	8.673	0	114565	N.D.	22.604 #
39) Toxaphene...	8.161	8.720	6497920	50536	2005.436	6.052 #
40) Toxaphene...	8.408f	8.941f	31067	267680	12.960	57.438 #
41) Toxaphene...	8.460	9.317f	7410885	23828	2341.820	5.016 #
42) Toxaphene...	3.436f	3.445	11801	6073	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 12:25  
Operator : MJB  
Sample : 9L10037-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:01:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101905.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 12:42  
 Operator : MJB  
 Sample : 9L10037-CCV2  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:01:58 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/10/19*

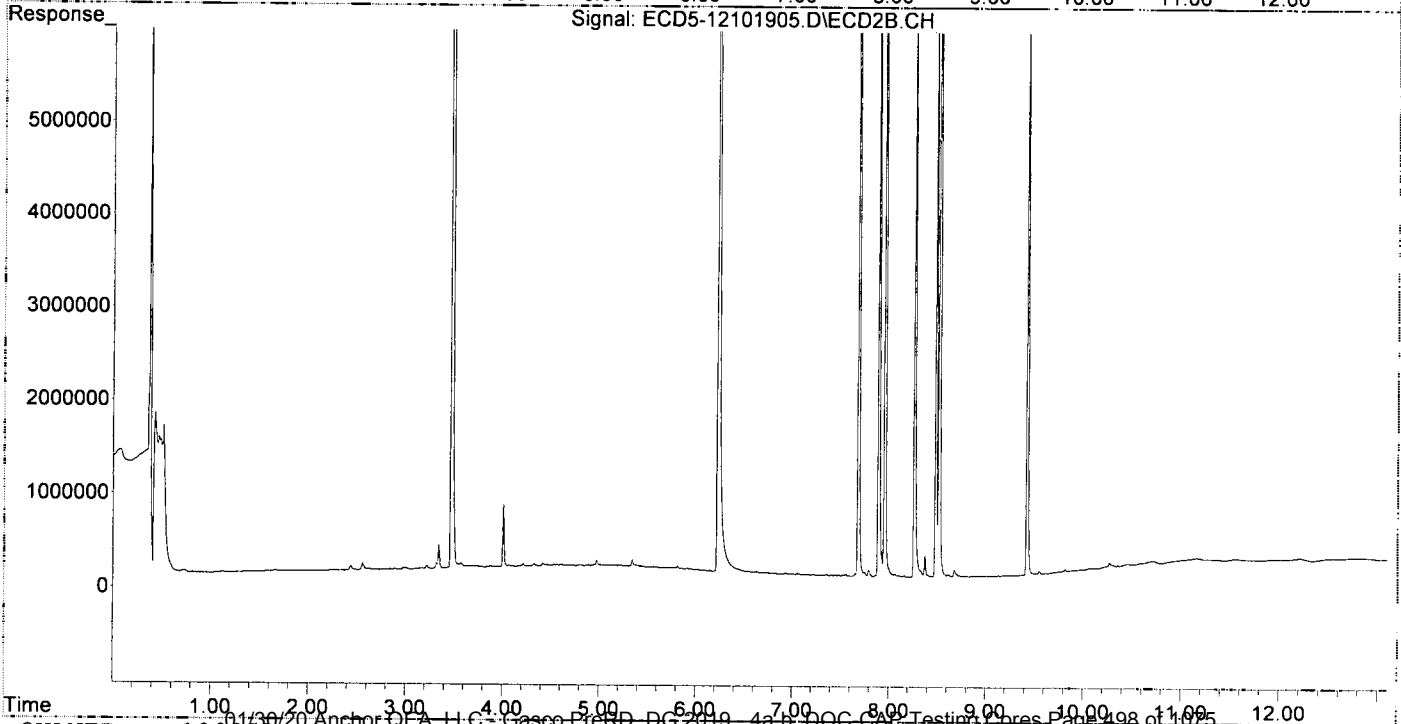
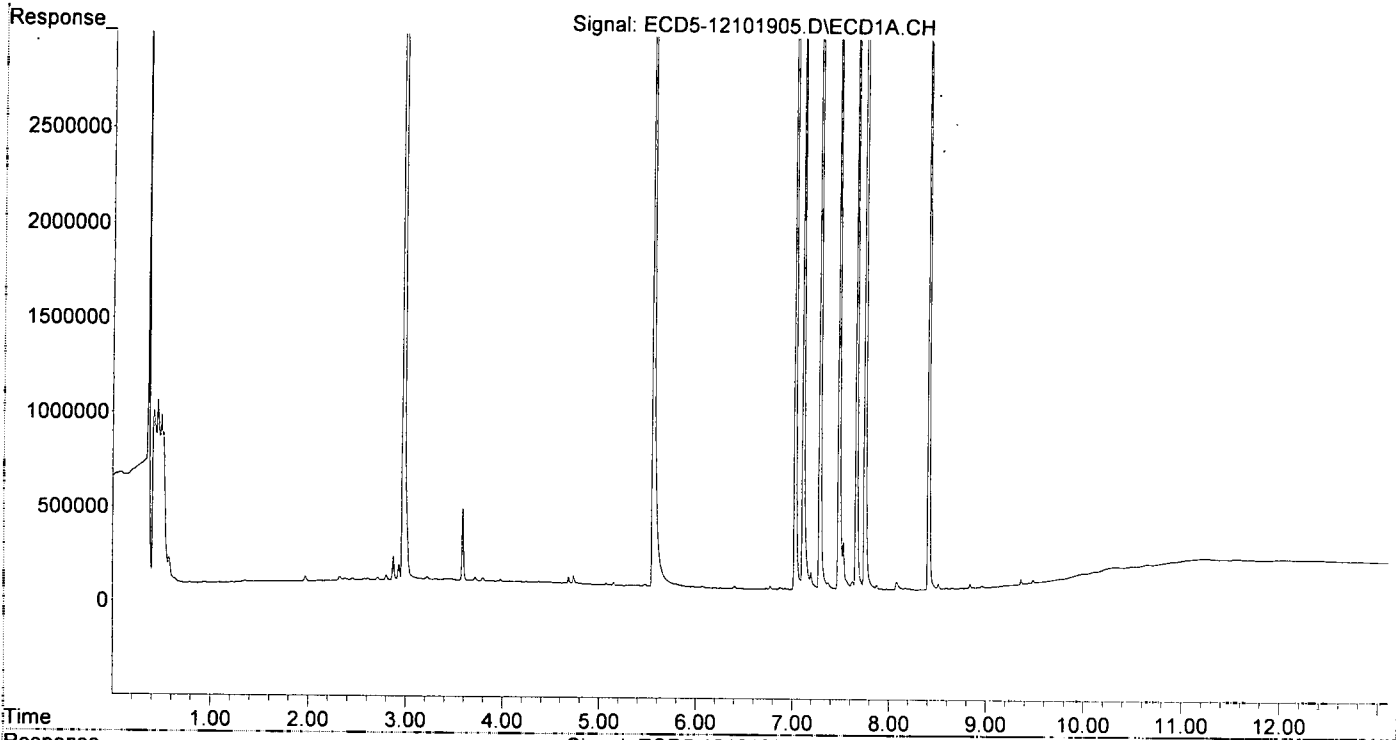
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.149f	0.000	16093	0	0.097	N.D. #
22) S DCBP (S)	9.360	10.268	27191	64158	0.193	0.357 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.068	0.000	9348	0	0.103	N.D. #
5) Heptachlor	6.400	7.055	12934	16101	0.071	0.053
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	0.000	7.352f	0	14331	N.D.	0.044 #
8) Heptachlo...	7.109	7.752	5414759	40544	29.400	0.135 #
9) trans-Chl...	7.191	7.893	93143	9360082	0.504	29.873 #
10) cis-Chlor...	7.283	0.000	8920900	0	48.997	N.D. #
11) Endosulfa...	7.367	8.065	37201	32057	0.219	0.116 #
12) 4,4'-DDE	7.367	8.097	37201	15867	0.197	0.051 #
13) Dieldrin	7.525f	8.263	251050	7902614	1.308	25.983 #
14) Endrin	7.749f	8.484	10105949	7841913	68.735	34.725 #
15) 4,4'-DDD	7.749f	8.519	10105949	15894254	64.312	62.035
16) Endosulfa...	7.872	8.611	24279	20951	0.169	0.091 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.171	8.858	10252	5193	BelowCal	BelowCal
19) Endosulfa...	0.000	9.047	0	4570	N.D.	0.018 #
20) Methoxychlor	0.000	9.223	0	2645	N.D.	BelowCal
21) Endrin Ke...	8.653	9.424	4916	8502920	0.029	33.045 #
23) Hexachlor...	2.977	3.474	9695762	20947726	53.058	55.722
24) Hexachlor...	5.555	6.230	8680689	14280021	49.240	45.465
25) Oxychlorane	7.027	7.684	7796459	12590280	47.384	45.966
26) 2,4'-DDE	7.109	7.893	5414759	9360082	42.217	44.123
27) trans-Non...	7.283	7.957	8920900	14315691	49.504	47.460
28) 2,4'-DDD	7.479	8.263	4979413	7902614	43.631	41.843
29) 2,4'-DDT	7.660	8.484	5414871	7841913	49.366	43.972
30) cis-Nonac...	7.749	8.519	10105949	15894254	48.676	47.382
31) Mirex	8.408	9.424	5967586	8502920	47.601	45.697
32) Chlordane...	7.283f	7.957	8920900	14315691	453.076	395.630
33) Chlordane...	7.367f	8.065	37201	32057	1.484	1.056
34) Chlordane...	7.872	8.677f	24279	64270	4.200	7.168 #
35) Chlordane...	3.472	3.474f	18839	20947726	NoCal	NoCal
36) Toxaphene...	7.283f	8.263f	8920900	7902614	9960.281	3011.371 #
37) Toxaphene...	7.623	8.611f	43570	20951	26.980	6.366 #
38) Toxaphene...	0.000	8.677	0	64270	N.D.	12.681 #
39) Toxaphene...	8.171	0.000	10252	0	3.164	N.D. #
40) Toxaphene...	8.408f	0.000	5967586	0	2489.459	N.D. #
41) Toxaphene...	0.000	9.262f	0	1473	N.D.	0.310 #
42) Toxaphene...	3.472	3.474	18839	20947726	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101905.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 12:42  
Operator : MJB  
Sample : 9L10037-CCV2  
Misc : A19J408, 9-42 50 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:01:58 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualeCD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101906.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 12:59  
 Operator : MJB  
 Sample : 9L10037-CCB1  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:02:05 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

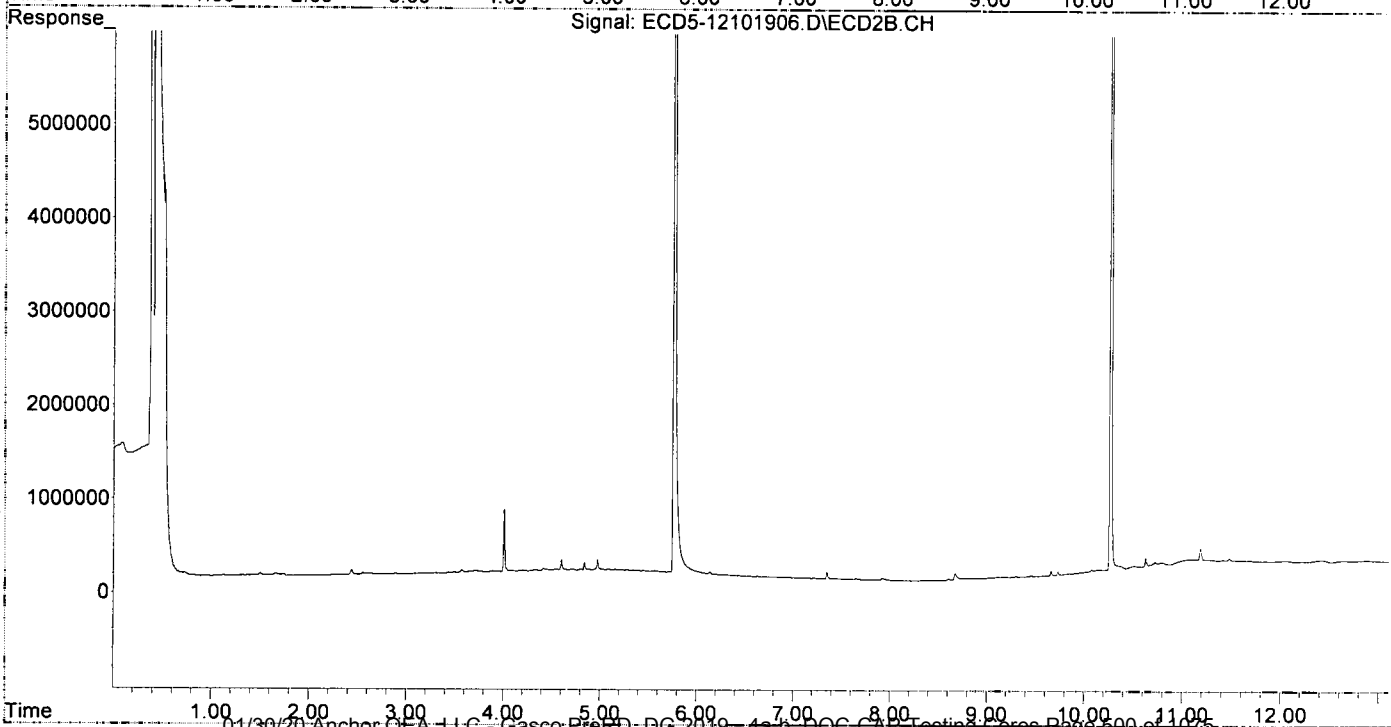
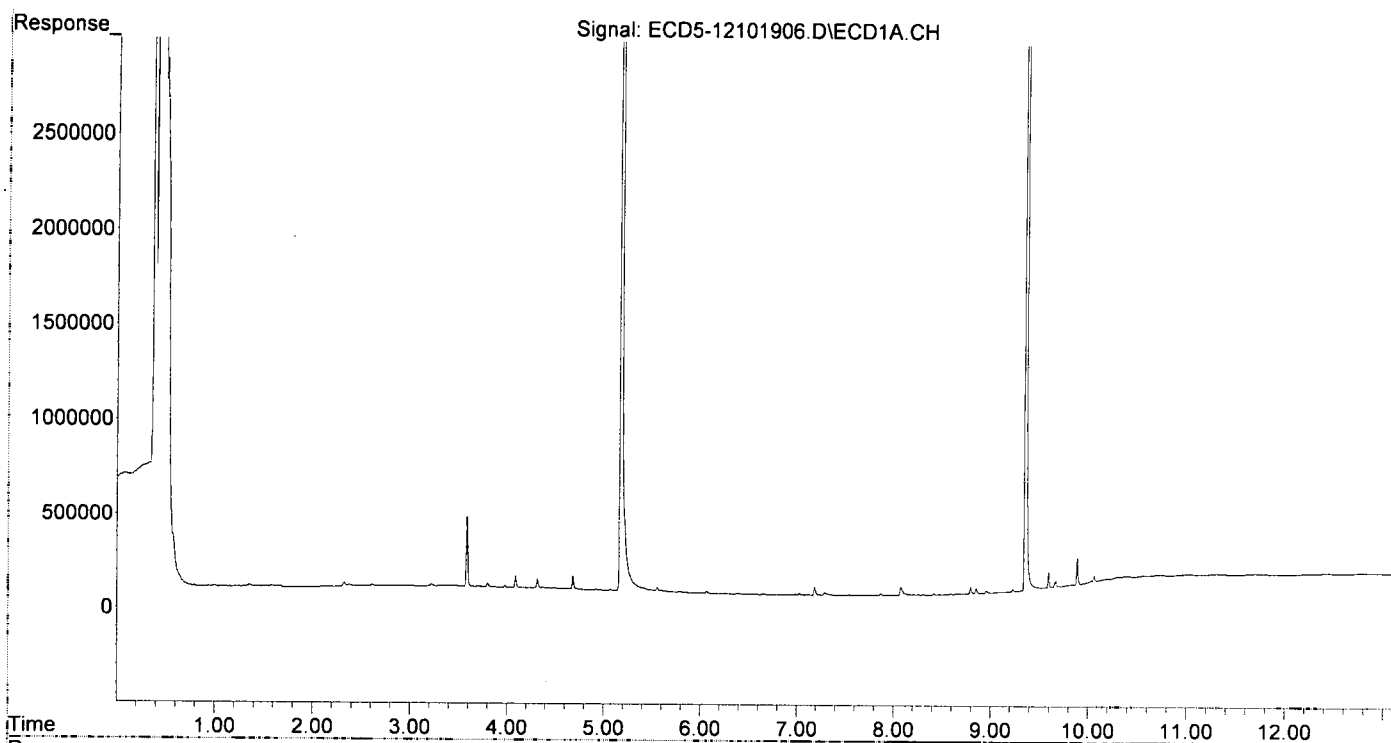
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.175	5.765	16921981	29777860	101.955	101.504
22) S DCBP (S)	9.359	10.268	13612582	20401005	96.476	113.488
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.065	0.000	9175	0	0.102	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.649	7.351f	3525	76254	0.018	0.231 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.183	7.925f	45438	20077	0.246	0.064 #
10) cis-Chlor...	7.289	0.000	12400	0	0.068	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	8.481	0	3096	N.D.	0.014 #
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.870	8.609	11573	10799	0.081	0.047 #
17) 4,4'-DDT	0.000	8.768	0	4568	N.D.	BelowCal
18) Endrin Al...	8.158	0.000	6115	0	BelowCal	N.D.
19) Endosulfa...	0.000	9.047	0	2909	N.D.	0.012 #
20) Methoxychlor	8.308	0.000	3220	0	0.055	N.D. #
21) Endrin Ke...	8.673f	9.454	1664	14243	0.010	0.055 #
23) Hexachlor...	0.000	3.497f	0	7391	N.D.	0.020 #
24) Hexachlor...	5.555	0.000	25421	0	0.144	N.D. #
25) Oxychlorane	7.028	7.652f	9662	13037	0.059	0.048
26) 2,4'-DDE	0.000	7.925f	0	20077	N.D.	0.095 #
27) trans-Non...	7.289	7.925f	12400	20077	87346.631	0.067 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	8.481	0	3096	N.D.	0.017 #
30) cis-Nonac...	0.000	8.481f	0	3096	N.D.	0.009 #
31) Mirex	8.418	9.454f	6578	14243	0.052	0.077 #
32) Chlordane...	0.000	7.925f	0	20077	N.D.	0.555 #
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.870	0.000	11573	0	2.002	N.D. #
35) Chlordane...	3.438f	3.438	6987	7767	NoCal	NoCal
36) Toxaphene...	7.289f	0.000	12400	0	13.845	N.D. #
37) Toxaphene...	0.000	8.609f	0	10799	N.D.	3.281 #
38) Toxaphene...	0.000	8.675	0	65716	N.D.	12.966 #
39) Toxaphene...	8.158	8.768f	6115	4568	1.887	0.547 #
40) Toxaphene...	8.418f	0.000	6578	0	2.744	N.D. #
41) Toxaphene...	8.418f	9.298	6578	11111	2.079	2.339
42) Toxaphene...	3.438f	3.438f	6987	7767	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101906.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 12:59  
Operator : MJB  
Sample : 9L10037-CCB1  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 13:16  
 Operator : MJB  
 Sample : A9I0890-03RE1<sup>65</sup>  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:10:35 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

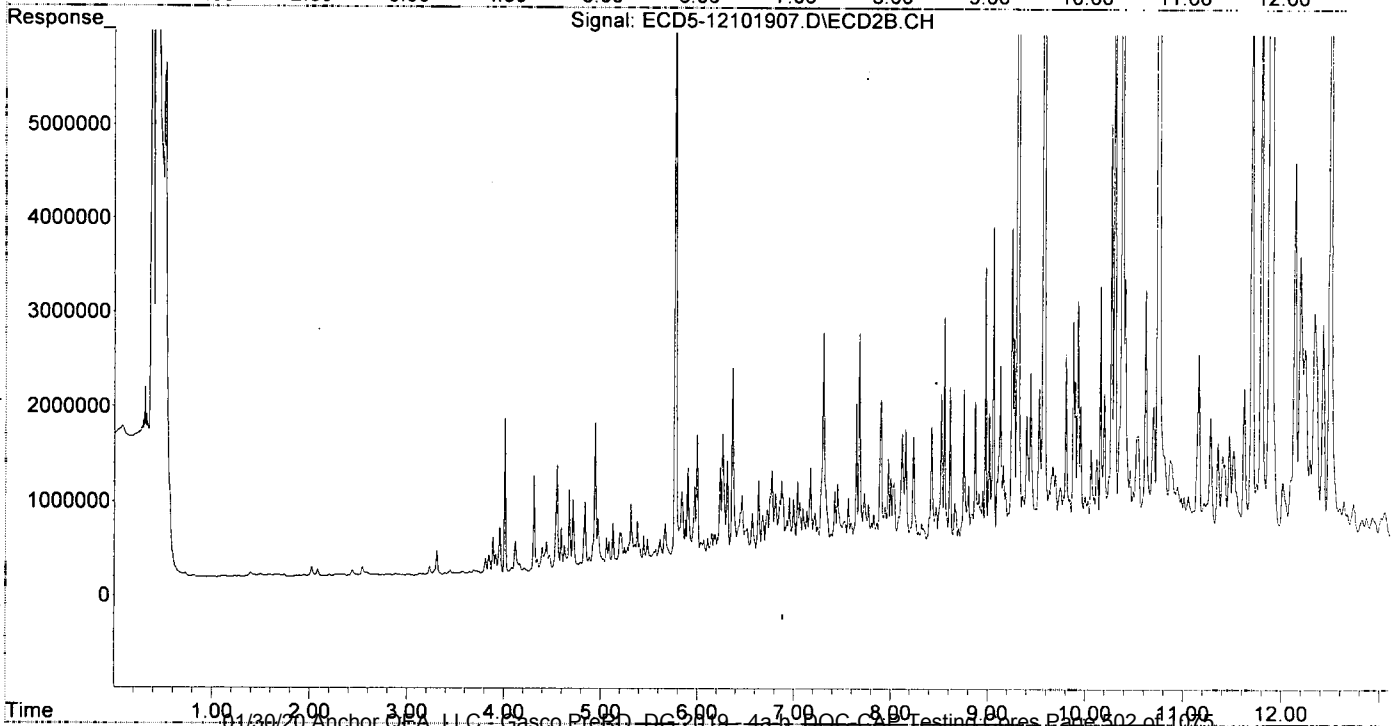
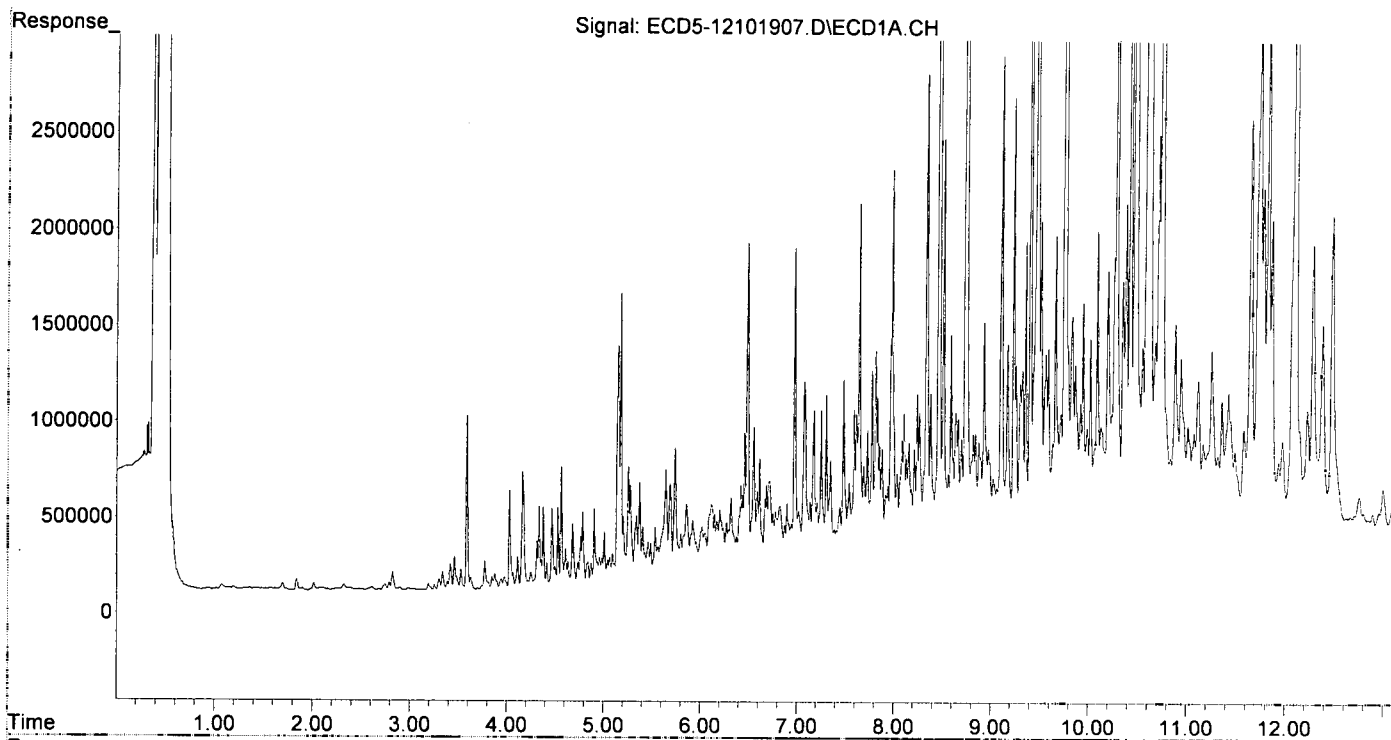
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.179	5.773	1487707	7355153	8.963	25.072 #
22) S DCBP (S)	9.360	10.269	1608420	4445006	11.399	24.727 #
Target Compounds						
2) a-BHC	5.689f	6.365	480585	2059919	2.096	5.020 #
3) g-BHC	6.019f	6.676	242866	491723	1.204	1.379 #
4) b-BHC	6.051	6.755	209655	678506	2.320	4.287 #
5) Heptachlor	6.421f	7.063	448956	610857	2.476	1.996 #
6) d-BHC	6.204	6.997	325890	640304	1.657	1.816 #
7) Aldrin	6.616f	7.307	577721	2396758	2.926	7.276 #
8) Heptachlo...	7.080	7.772	963692	553268	5.232	1.839 #
9) trans-Chl...	7.176	7.902	803932	1642613	4.348	5.243 #
10) cis-Chlor...	7.306	8.003	885763	813845	4.865	2.794 #
11) Endosulfa...	7.388	8.038	179084	766904	1.052	2.787 #
12) 4,4'-DDE	7.349	8.121	542086	1275545	2.875 <sup>R-02</sup>	4.106 # <sup>R-01</sup>
13) Dieldrin	7.543	8.236	416269	1238548	2.168	4.072 #
14) Endrin	7.730	8.470	678901	492079	4.618	2.179 #
15) 4,4'-DDD	7.777	8.524	993251	1682633	6.321	6.567 #
16) Endosulfa...	7.882	8.615	585502	1750318	4.077	7.590 #
17) 4,4'-DDT	7.980	8.757	1355491	1716153	11.337m	9.790 # <sup>R-02</sup>
18) Endrin Al...	8.158	8.873	607421	1585288	4.185	7.759 #
19) Endosulfa...	8.468	9.061	13997445	3438187	90.319	13.803 #
20) Methoxychlor	8.341f	9.215	2496545	395838	42.622	4.685 #
21) Endrin Ke...	8.641	9.441	741668	1858083	4.448	7.221 #
23) Hexachlor...	2.980	3.476	10097	19355	0.055	0.051 #
24) Hexachlor...	5.564	6.237	158795	1016848	0.901	3.237 #
25) Oxychlordane	7.020	7.678	288557	2365719	1.754	8.637 #
26) 2,4'-DDE	7.098	7.902	425831	1642613	3.320m <sup>R-02</sup>	7.743 # <sup>R-01</sup>
27) trans-Non...	7.306f	7.946	885763	518691	4.628	1.720 #
28) 2,4'-DDD	7.483	8.252	957874	445743	8.393	2.360m # <sup>R-02</sup>
29) 2,4'-DDT	7.647	8.470	1865355	530748	17.006	2.976m # <sup>R-02</sup>
30) cis-Nonac...	7.730	8.524	678901	1682633	3.270	5.016 #
31) Mirex	8.382f	9.441	854073	1858083	6.813	9.986 #
32) Chlordane...	7.253	7.946	804920	518691	40.880	14.335 #
33) Chlordane...	7.349	8.038f	542086	766904	21.628	25.257 #
34) Chlordane...	7.882	8.703	585502	253329	101.278	28.255 #
35) Chlordane...	3.458	3.448	175033	43812	NoCal	NoCal #
36) Toxaphene...	7.306	8.288	885763	236220	988.964	90.014 #
37) Toxaphene...	7.616	8.615f	779491	1750318	482.675	531.846 #
38) Toxaphene...	7.920	8.663	343137	530973	101.897	104.763 #
39) Toxaphene...	8.158	8.757f	607421	1716153	187.467	205.531 #
40) Toxaphene...	8.382	8.912	854073	611368	356.288	131.185 #
41) Toxaphene...	8.468	9.272	13997445	2230754	4423.156	469.613 #
42) Toxaphene...	3.458	3.448	175033	43812	NoCal	NoCal #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

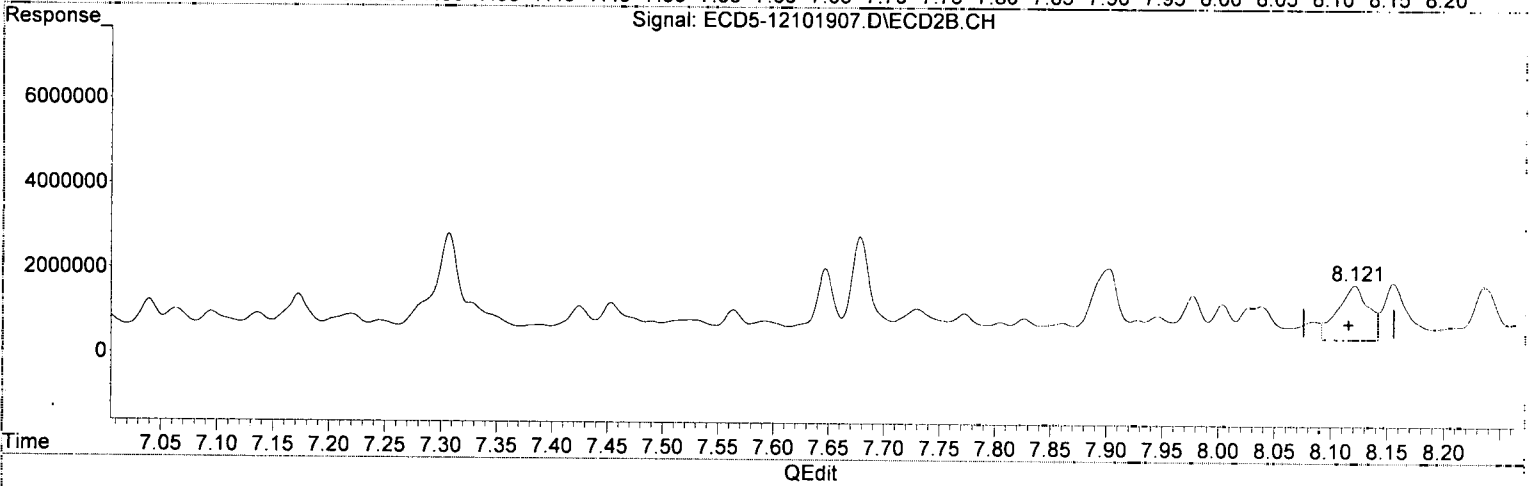
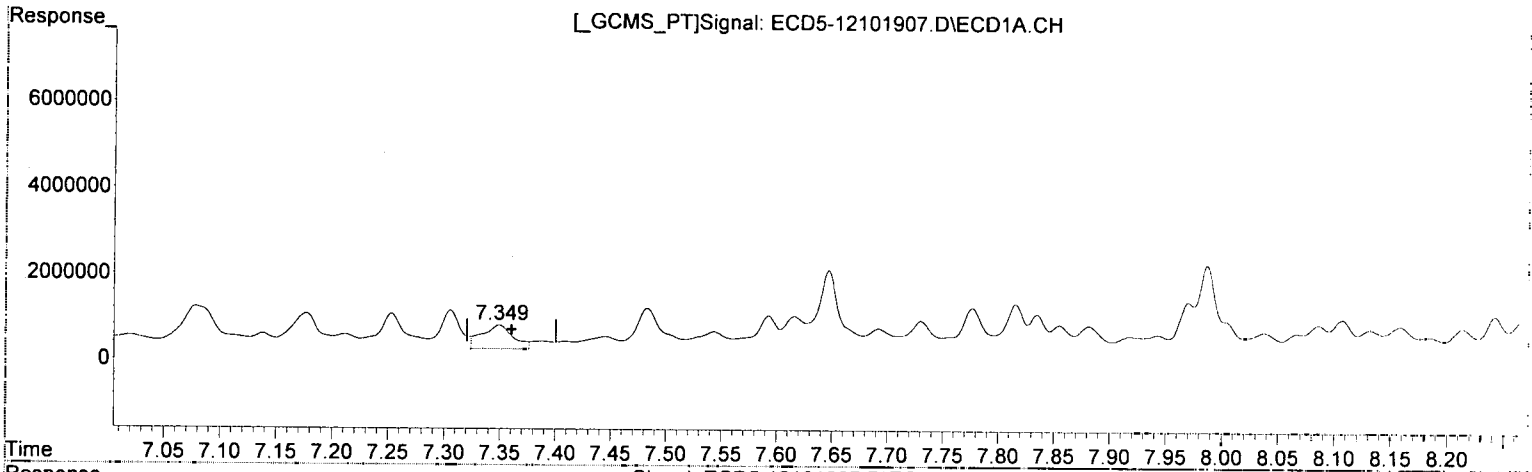
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:10:35 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.349min 2.875 ng/mL *R02*  
response 542086

*MJB*  
*12/10/19*

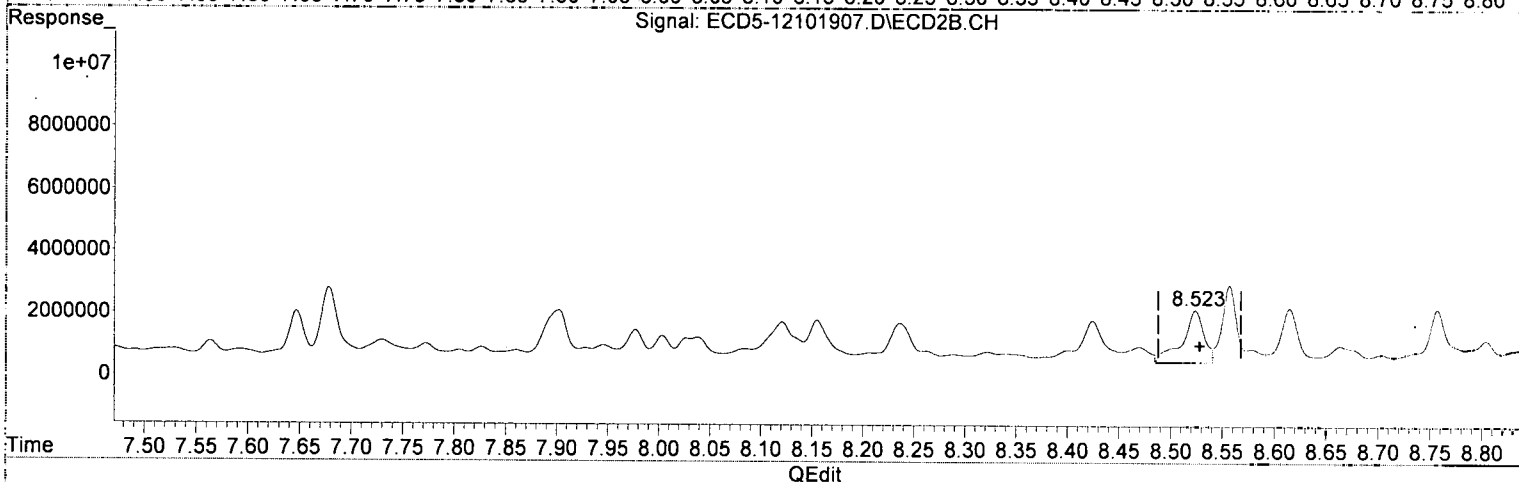
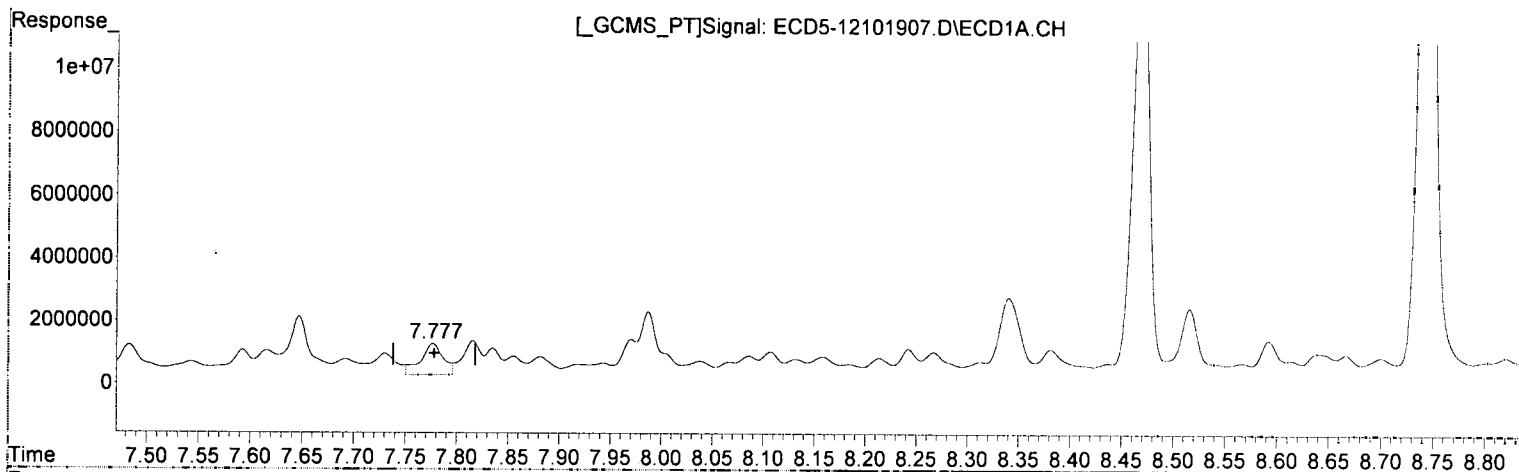
(12) 4,4'-DDE #2

8.121min 4.106 ng/mL *R01*  
response 1275545

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD  
7.777min 6.321 ng/mL  
response 993251

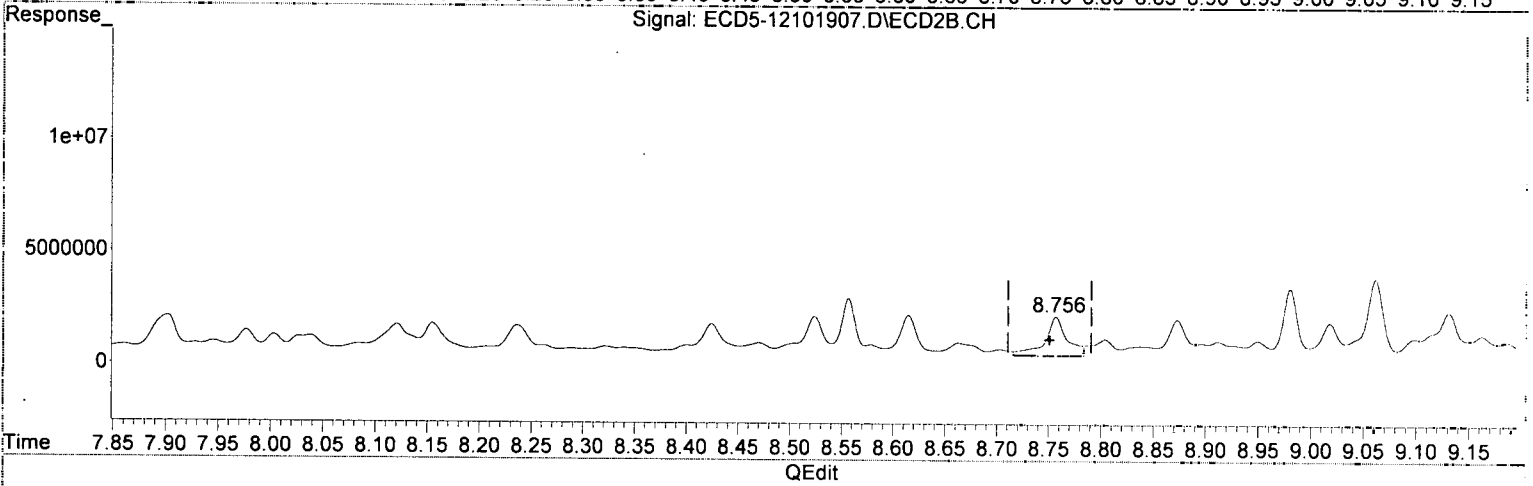
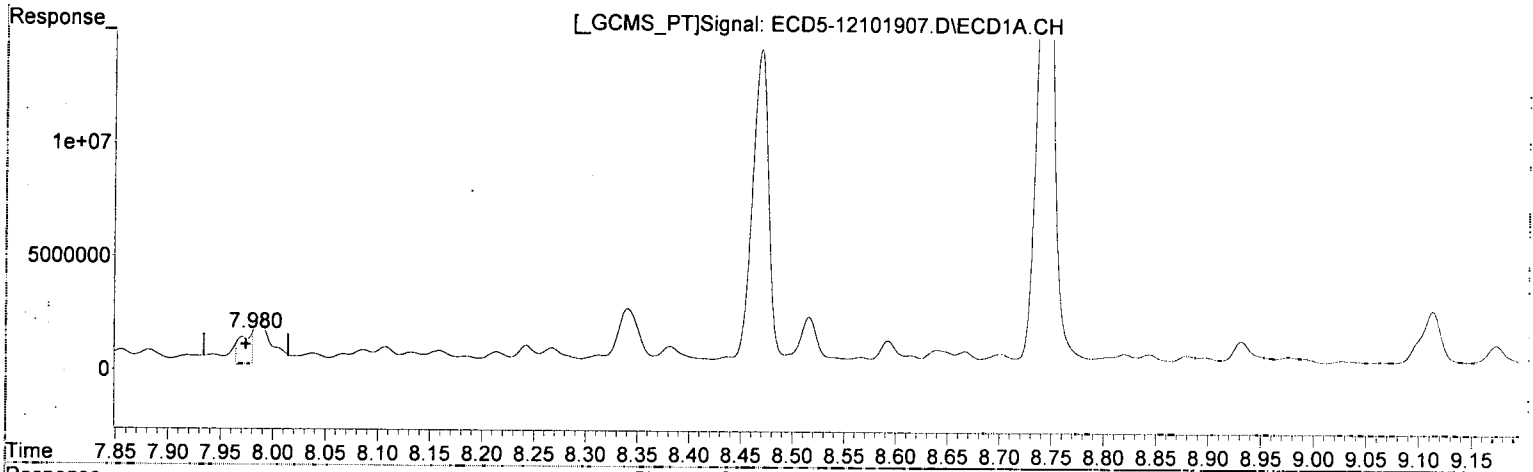
*MJB 12/10/19*

(15) 4,4'-DDD #2  
8.524min 6.567 ng/mL  
response 1682633

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 13:16  
 Operator : MJB  
 Sample : A9I0890-03RE1@5  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:02:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

7.980min 11.337 ng/mL (m)  
 response 1355491

*MJB 12/10/19*

(17) 4,4'-DDT #2

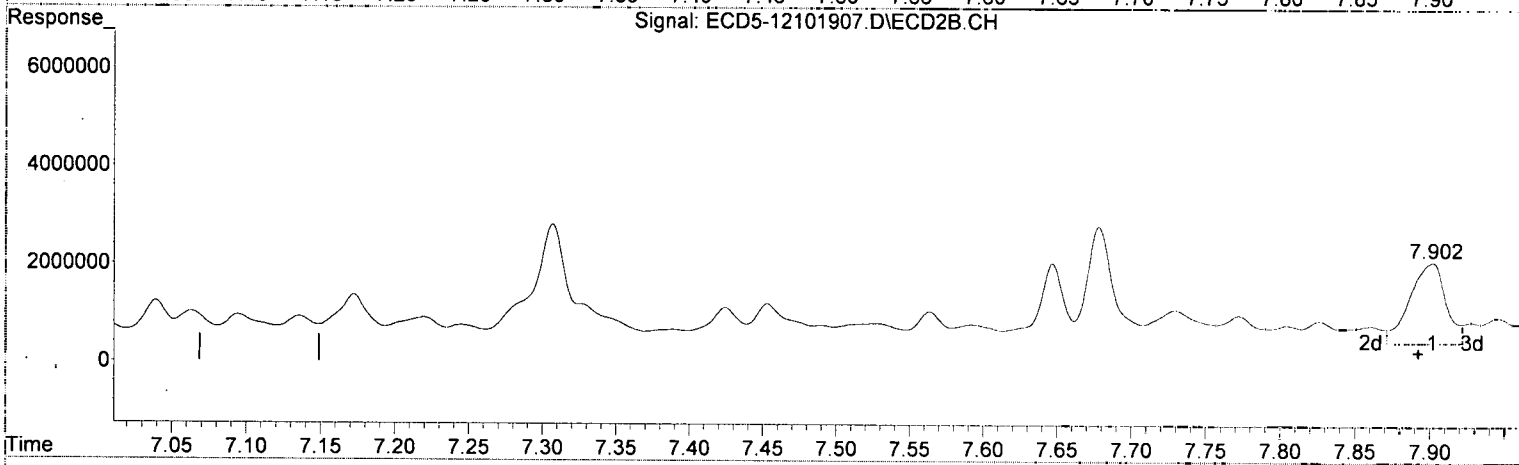
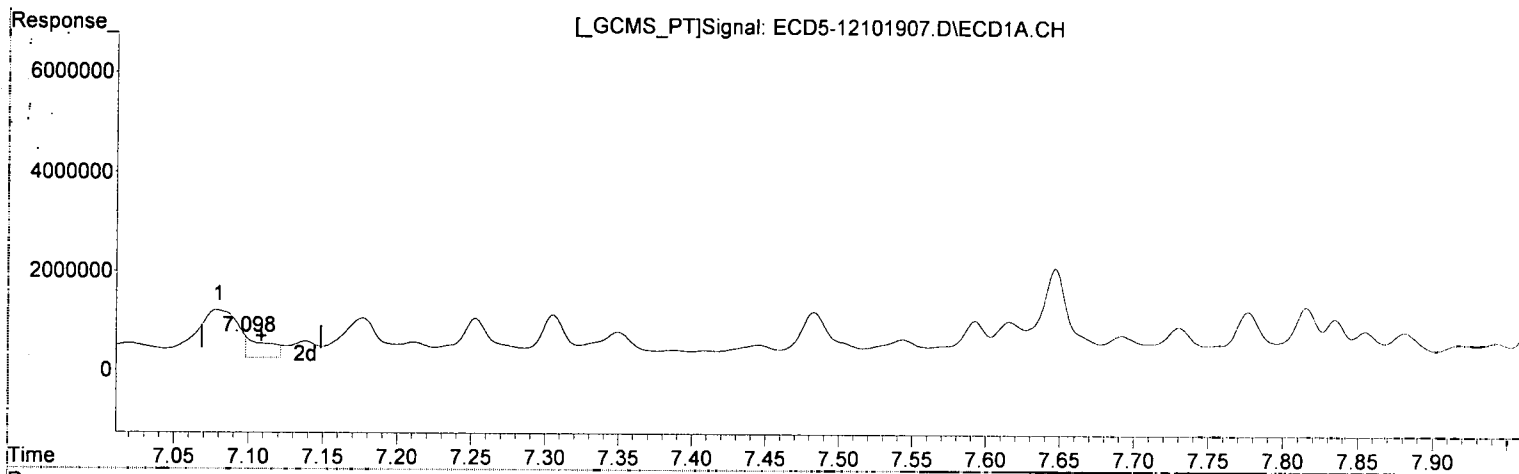
8.757min 9.790 ng/mL  
 response 1716153

*R-2*

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.098min 3.320 ng/mL (m) R-02  
response 425831

*MJB*  
*12/10/19*

(26) 2,4'-DDE #2

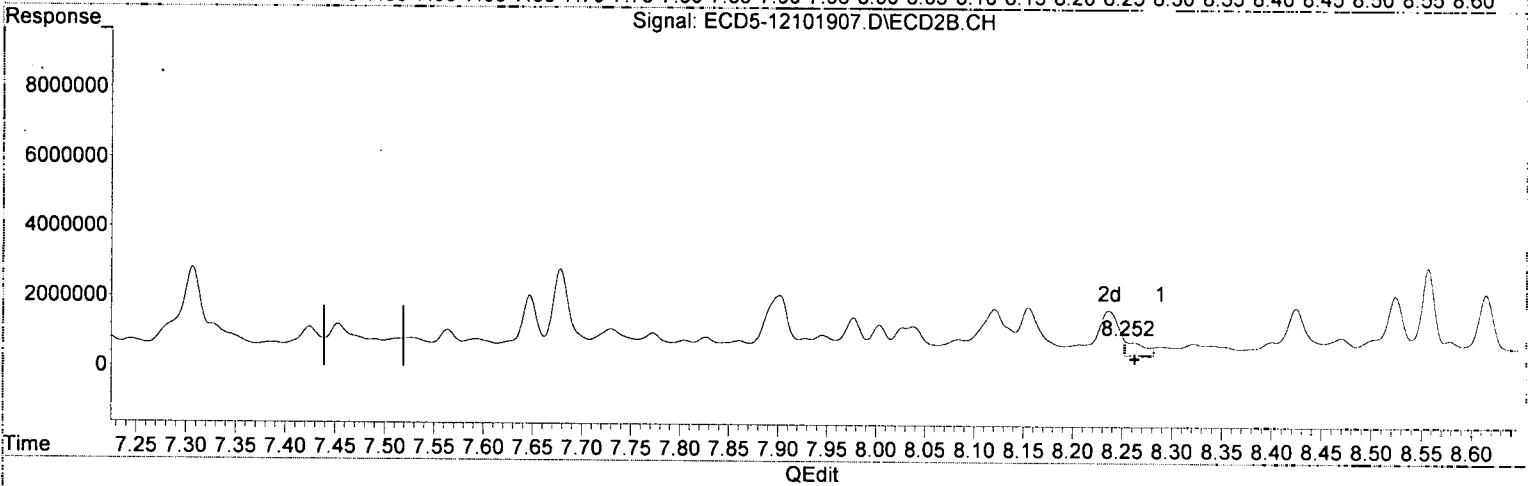
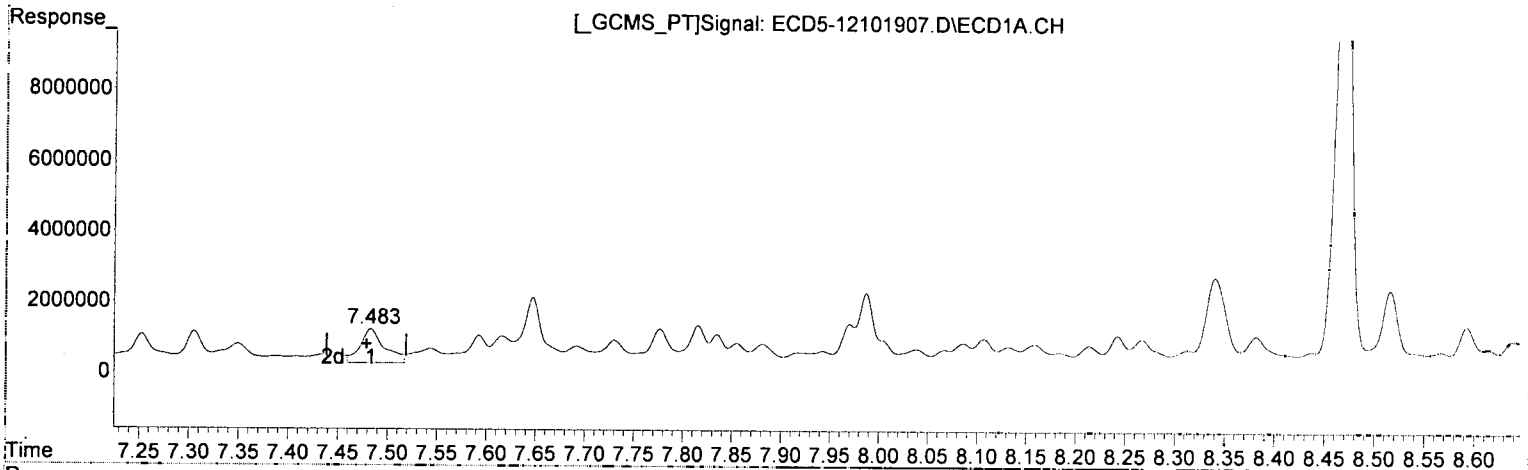
7.902min 7.743 ng/mL P-01  
response 1642613



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualeCD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.483min 8.393 ng/mL

response 957874

*MJB 12/10/19*

(28) 2,4'-DDD #2

8.252min 2.360 ng/mL

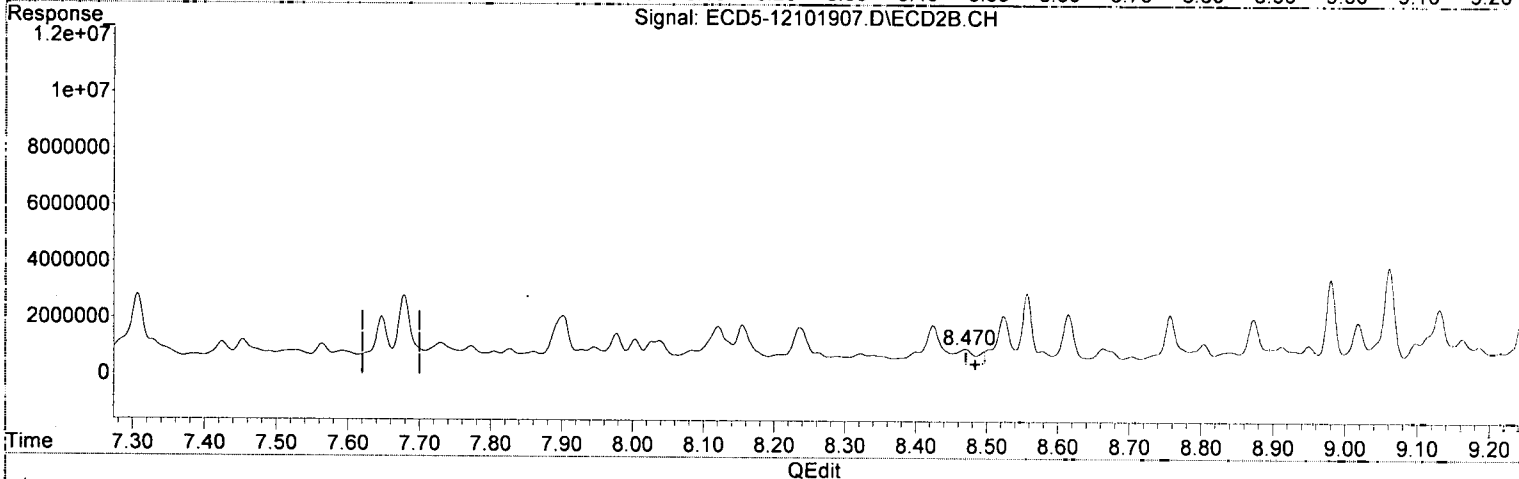
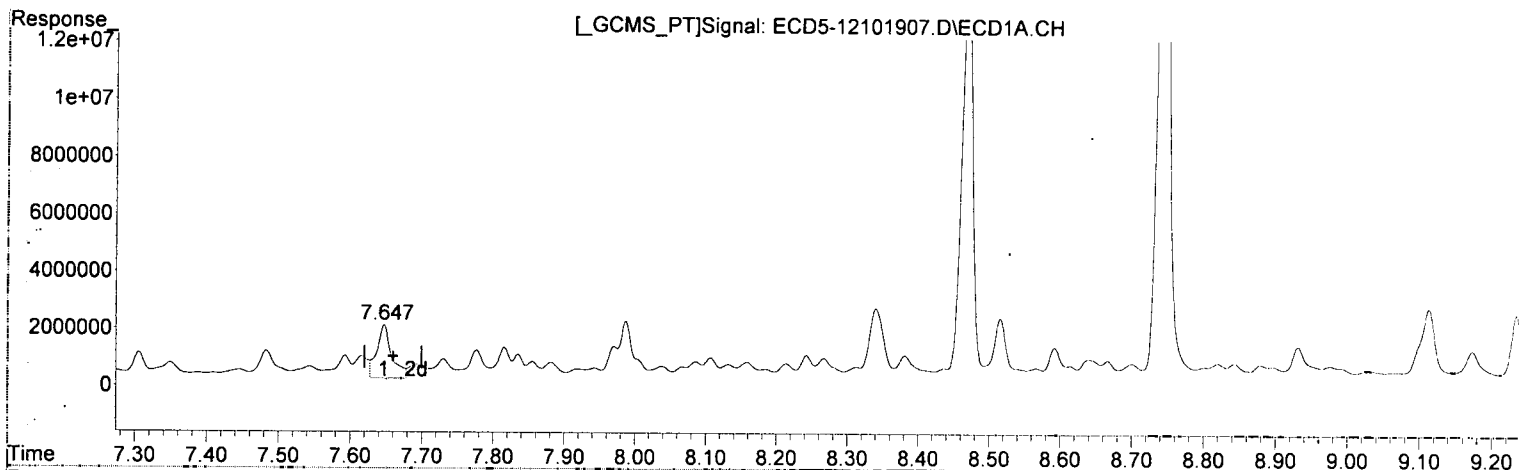
response 445743

*R-02*

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.647min 17.006 ng/mL

response 1865355

*MJB*  
*12/10/19*

(29) 2,4'-DDT #2

8.470min 2.976 ng/mL

response 530748

*1.02*

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 13:16  
 Operator : MJB  
 Sample : A9I0890-03RE105  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 15:02:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*HL*  
*MJB*  
*12/10/19*

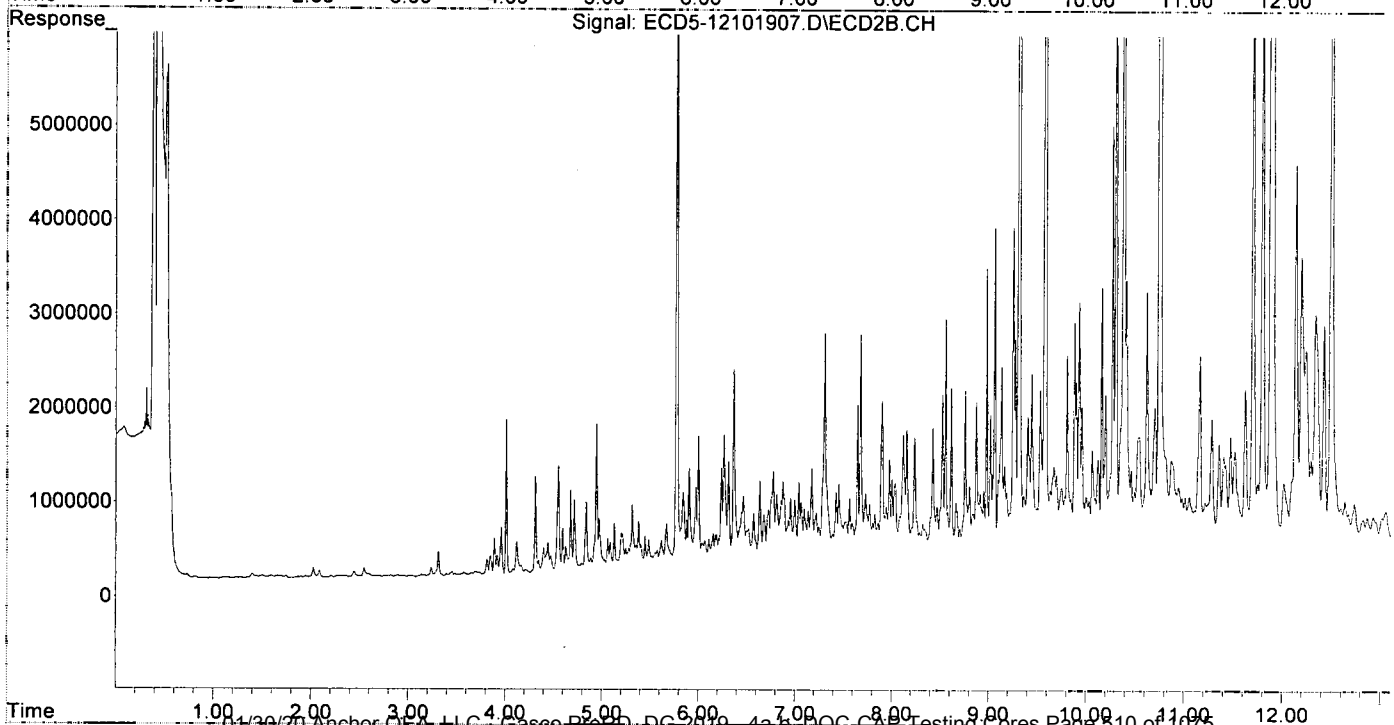
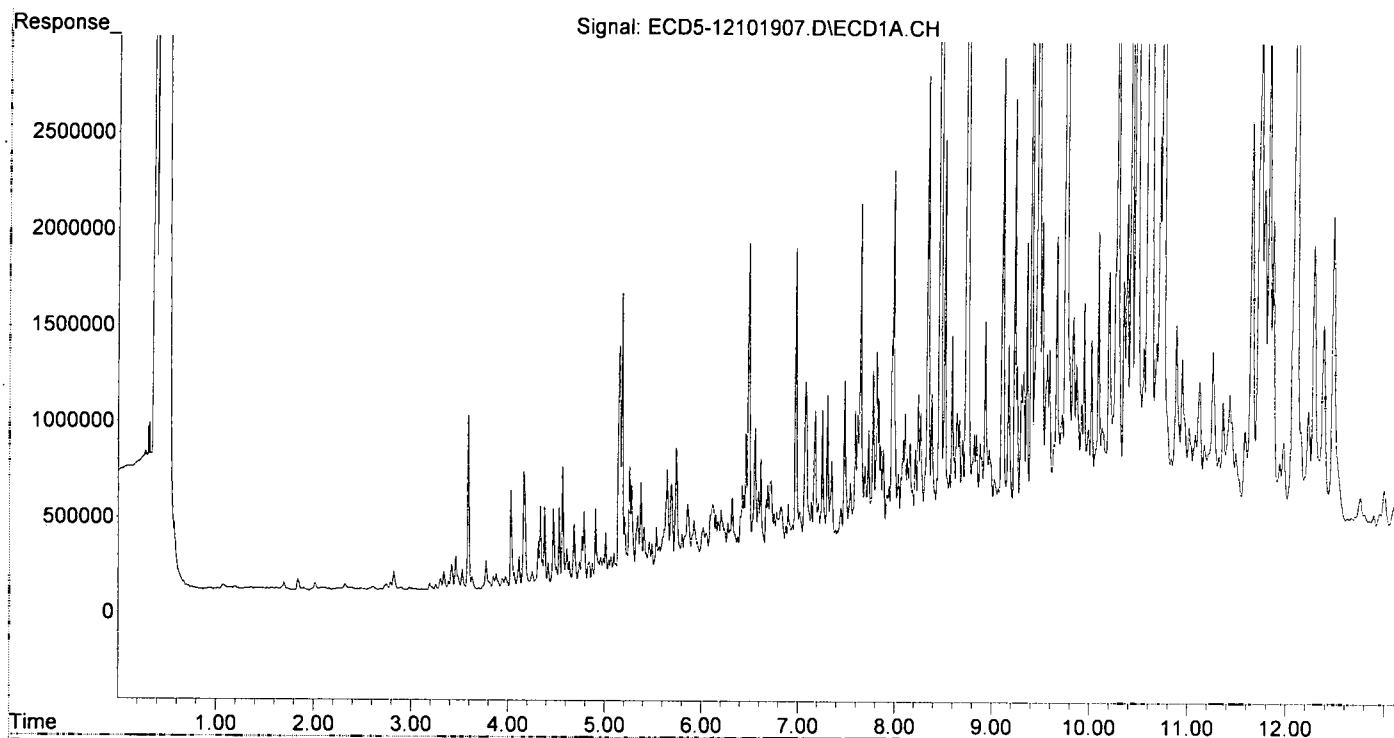
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.179	5.773	1487707	7355153	8.963	25.072 #
22) S DCBP (S)	9.360	10.269	1608420	4445006	11.399	24.727 #
Target Compounds						
2) a-BHC	5.689f	6.365	480585	2059919	2.096	5.020 #
3) g-BHC	6.019f	6.676	242866	491723	1.204	1.379
4) b-BHC	6.051	6.755	209655	678506	2.320	4.287 #
5) Heptachlor	6.421f	7.063	448956	610857	2.476	1.996
6) d-BHC	6.204	6.997	325890	640304	1.657	1.816
7) Aldrin	6.616f	7.307	577721	2396758	2.926	7.276 #
8) Heptachlo...	7.080	7.772	963692	553268	5.232	1.839 #
9) trans-Chl...	7.176	7.902	803932	1642613	4.348	5.243
10) cis-Chlor...	7.306	8.003	885763	813845	4.865	2.794 #
11) Endosulfa...	7.388	8.038	179084	766904	1.052	2.787 #
12) 4,4'-DDE	7.349	8.121	542086	1275545	2.875	4.106 #
13) Dieldrin	7.543	8.236	416269	1238548	2.168	4.072 #
14) Endrin	7.730	8.470	678901	492079	4.618	2.179 #
15) 4,4'-DDD	7.777	8.524	993251	1682633	6.321	6.567
16) Endosulfa...	7.882	8.615	585502	1750318	4.077	7.590 #
17) 4,4'-DDT	7.987	8.757	2030588	1716153	16.984	9.790 #
18) Endrin Al...	8.158	8.873	607421	1585288	4.185	7.759 #
19) Endosulfa...	8.468	9.061	13997445	3438187	90.319	13.803 #
20) Methoxychlor	8.341f	9.215	2496545	395838	42.622	4.685 #
21) Endrin Ke...	8.641	9.441	741668	1858083	4.448	7.221 #
23) Hexachlor...	2.980	3.476	10097	19355	0.055	0.051
24) Hexachlor...	5.564	6.237	158795	1016848	0.901	3.237 #
25) Oxychlordane	7.020	7.678	288557	2365719	1.754	8.637 #
26) 2,4'-DDE	7.080f	7.902	963692	1642613	7.514	7.743
27) trans-Non...	7.306f	7.946	885763	518691	4.628	1.720 #
28) 2,4'-DDD	7.483	8.288f	957874	236220	8.393	1.251 #
29) 2,4'-DDT	7.647	8.470	1865355	492079	17.006	2.759 #
30) cis-Nonac...	7.730	8.524	678901	1682633	3.270	5.016 #
31) Mirex	8.382f	9.441	854073	1858083	6.813	9.986 #
32) Chlordane...	7.253	7.946	804920	518691	40.880	14.335 #
33) Chlordane...	7.349	8.038f	542086	766904	21.628	25.257
34) Chlordane...	7.882	8.703	585502	253329	101.278	28.255 #
35) Chlordane...	3.458	3.448	175033	43812	NoCal	NoCal
36) Toxaphene...	7.306	8.288	885763	236220	988.964	90.014 #
37) Toxaphene...	7.616	8.615f	779491	1750318	482.675	531.846
38) Toxaphene...	7.920	8.663	343137	530973	101.897	104.763
39) Toxaphene...	8.158	8.757f	607421	1716153	187.467	205.531
40) Toxaphene...	8.382	8.912	854073	611368	356.288	131.185 #
41) Toxaphene...	8.468	9.272	13997445	2230754	4423.156	469.613 #
42) Toxaphene...	3.458	3.448	175033	43812	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 13:16  
Operator : MJB  
Sample : A9I0890-03RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 15:02:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101917.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 16:25  
 Operator : MJB  
 Sample : 9120511-MSD165  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 16:40:44 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

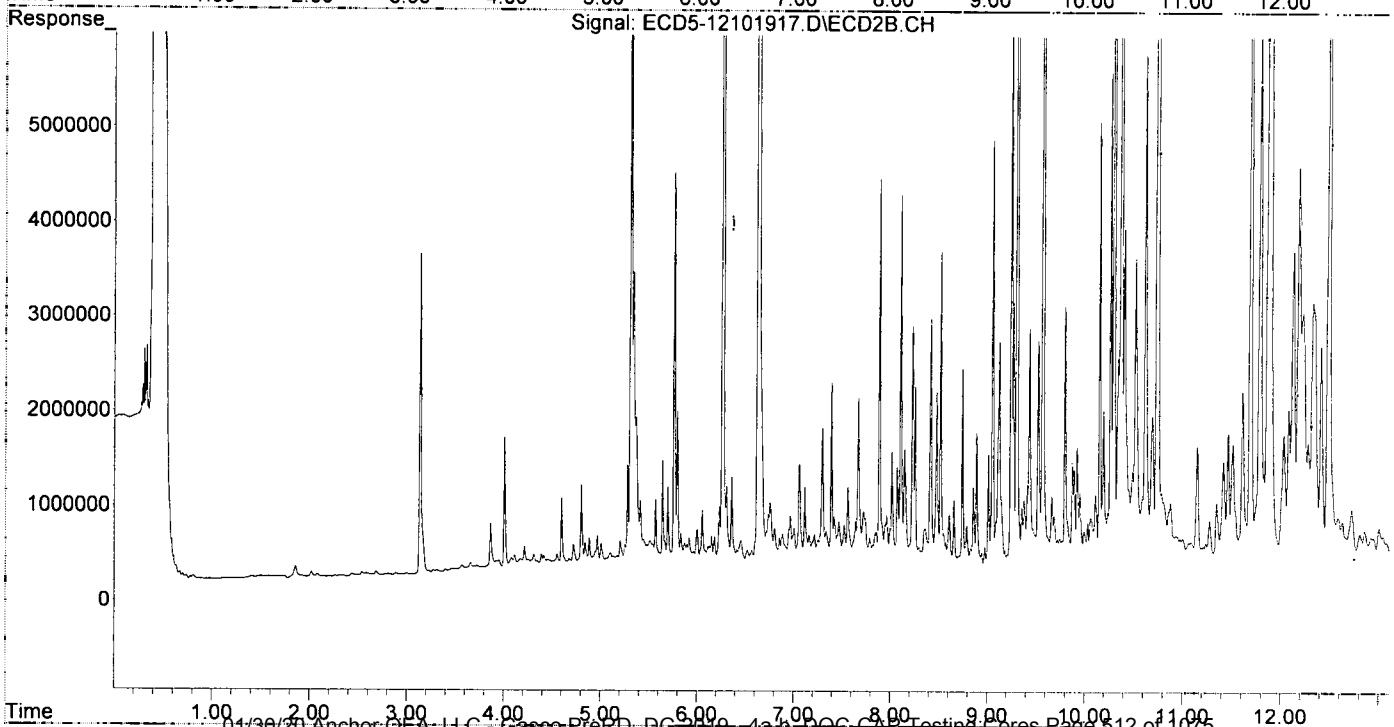
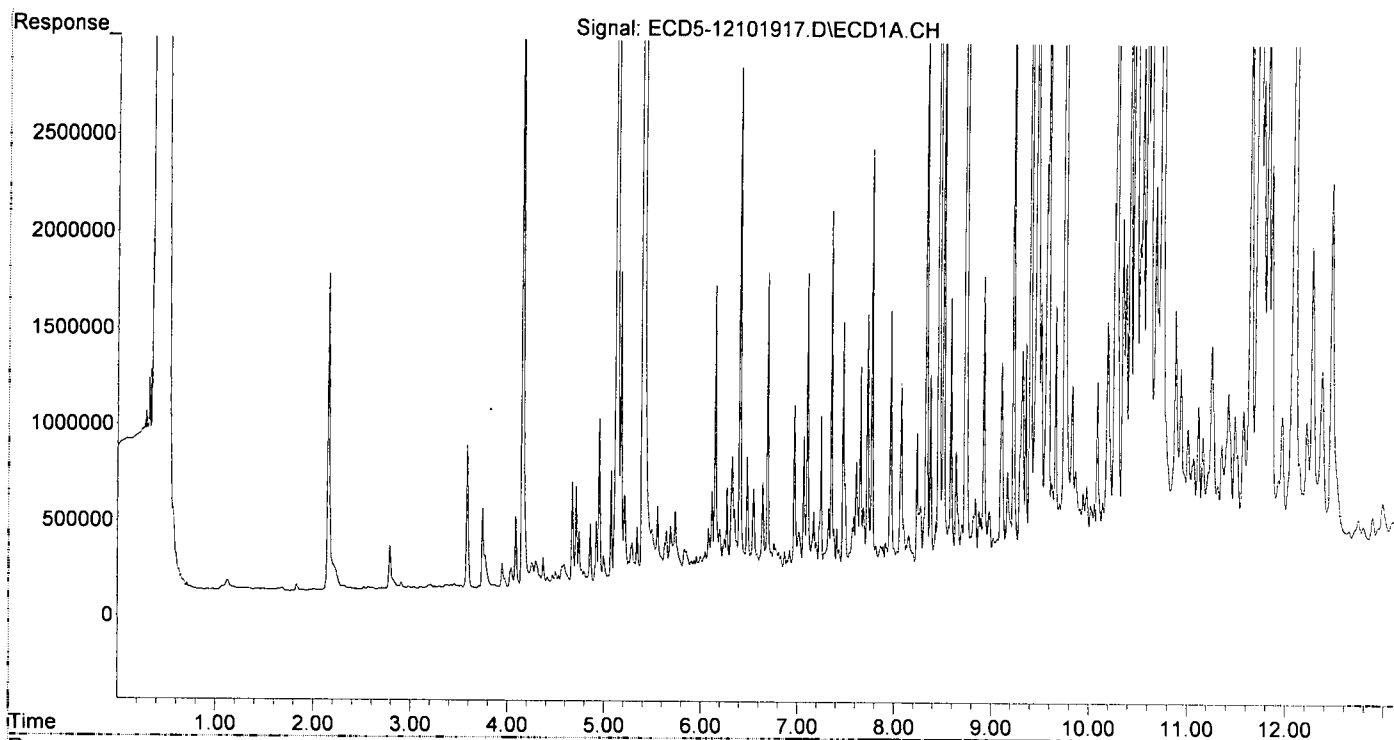
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.172	5.762	1598900	4159410	9.633	14.178 #
22) S DCBP (S)	9.354	10.264	1111688	5118590	7.879	28.474 #
Target Compounds						
2) a-BHC	5.734f	6.359	345544	936758	1.507	2.283 #
3) g-BHC	5.996	6.718f	101503	368952	0.503	1.034 #
4) b-BHC	6.079	6.757	248100	667885	2.745	4.220 #
5) Heptachlor	6.404	7.060	2618982	1068960	14.446	3.494 #
6) d-BHC	6.195f	7.006	237963	396211	1.210	1.123 #
7) Aldrin	6.641	7.299	468830	1452438	2.374	4.409 #
8) Heptachlo...	7.103	7.743	1537490	493860	8.348	1.642 #
9) trans-Chl...	7.168f	7.889	301878	4066000	1.633	12.977 #
10) cis-Chlor...	7.277	7.998	82554	384203	0.453	1.319 #
11) Endosulfa...	7.407f	8.073f	204169	1025997	1.200	3.729 #
12) 4,4'-DDE	7.352	8.109	1856173	3888750	9.846	12.517 #
13) Dieldrin	7.583f	8.258	264853	1870307	1.380	6.149 #
14) Endrin	7.724	8.480	1311886	1808738	8.923	8.009 #
15) 4,4'-DDD	7.771	8.521	2154211	3289681	13.709	12.840 #
16) Endosulfa...	7.860	8.609	100869	524437	0.702	2.274 #
17) 4,4'-DDT	7.966	8.746	1320157	2049363	11.042	11.656 #
18) Endrin Al...	8.150	8.858	150753	806841	0.273	3.553 #
19) Endosulfa...	8.462	9.056	7580856	4465094	48.916	17.926 #
20) Methoxychlor	8.333	9.245	3019058	5895846	51.542	64.009 #
21) Endrin Ke...	8.639	9.435	575998	2449561	3.454	9.520 #
23) Hexachlor...	2.976	3.477	15563	10106	0.085	0.027 #
24) Hexachlor...	5.551	6.232	377214	627894	2.140	1.999 #
25) Oxychlorthane	7.014	7.671	201753	1755439	1.226	6.409 #
26) 2,4'-DDE	7.103	7.889	1537490	4066000	11.987	19.167 #
27) trans-Non...	7.277	7.963	82554	518591	0.145	1.719 #
28) 2,4'-DDD	7.473	8.258	1277251	1870307	11.192	9.903 #
29) 2,4'-DDT	7.653	8.480	1033488	1808738	9.422	10.142 #
30) cis-Nonac...	7.771f	8.521	2154211	3289681	10.376	9.807 #
31) Mirex	8.375f	9.414	981237	809312	7.827	4.349 #
32) Chlordane...	7.244	7.947	792925	432785	40.271	11.960 #
33) Chlordane...	7.352	8.073	1856173	1025997	74.056	33.790 #
34) Chlordane...	7.860f	8.710	100869	84534	17.448	9.428 #
35) Chlordane...	3.488	3.452	13993	14202	NoCal	NoCal
36) Toxaphene...	7.321	8.298	313687	174443	350.235	66.473 #
37) Toxaphene...	7.609	8.657f	551686	666907	341.614	202.644 #
38) Toxaphene...	7.911	8.657	115881	666907	34.412	131.584 #
39) Toxaphene...	8.150	8.746	150753	2049363	46.526	245.438 #
40) Toxaphene...	8.375	8.892f	981237	1379762	409.336	296.063 #
41) Toxaphene...	8.462	9.268	7580856	2740757	2395.531	576.977 #
42) Toxaphene...	3.488	3.452	13993	14202	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101917.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 16:25  
Operator : MJB  
Sample : 9120511-MSD1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 16:40:44 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101919.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:03  
 Operator : MJB  
 Sample : 9L10037-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 17:28:57 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

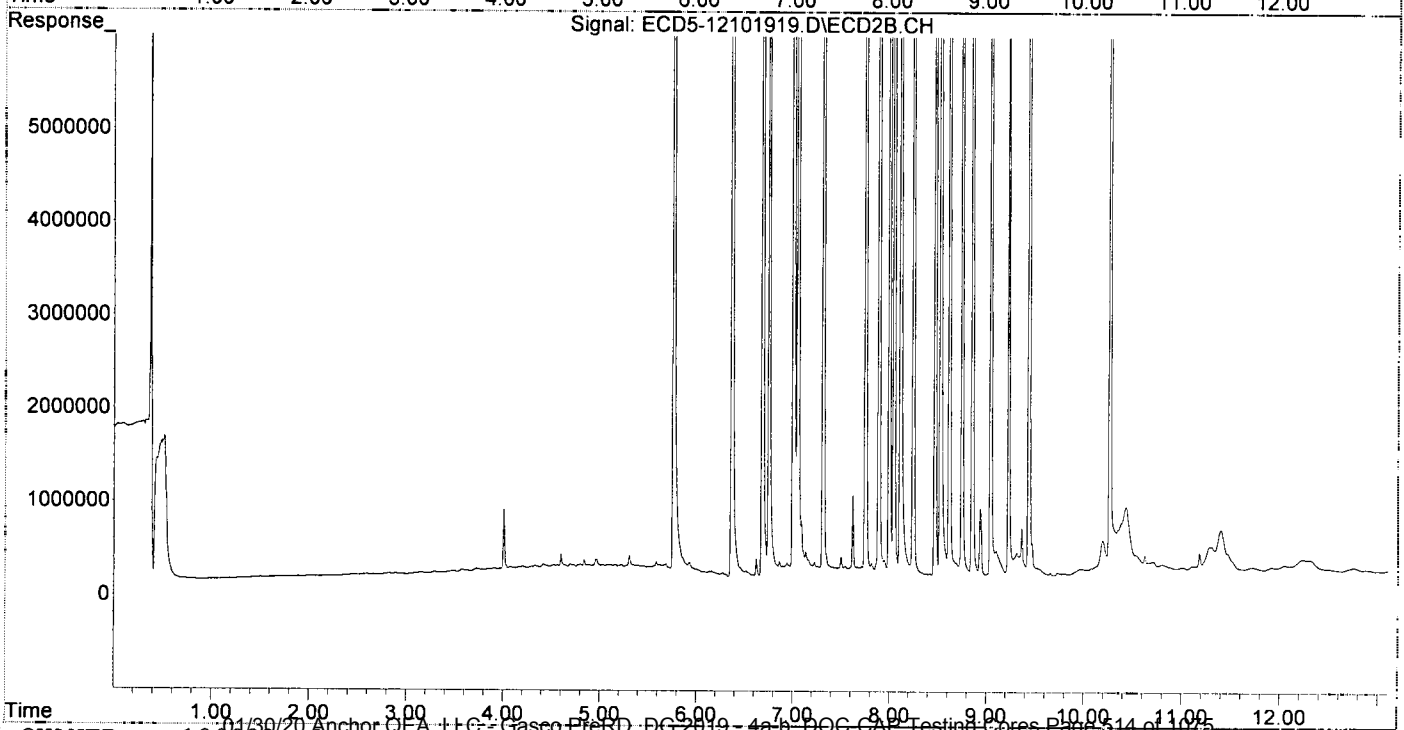
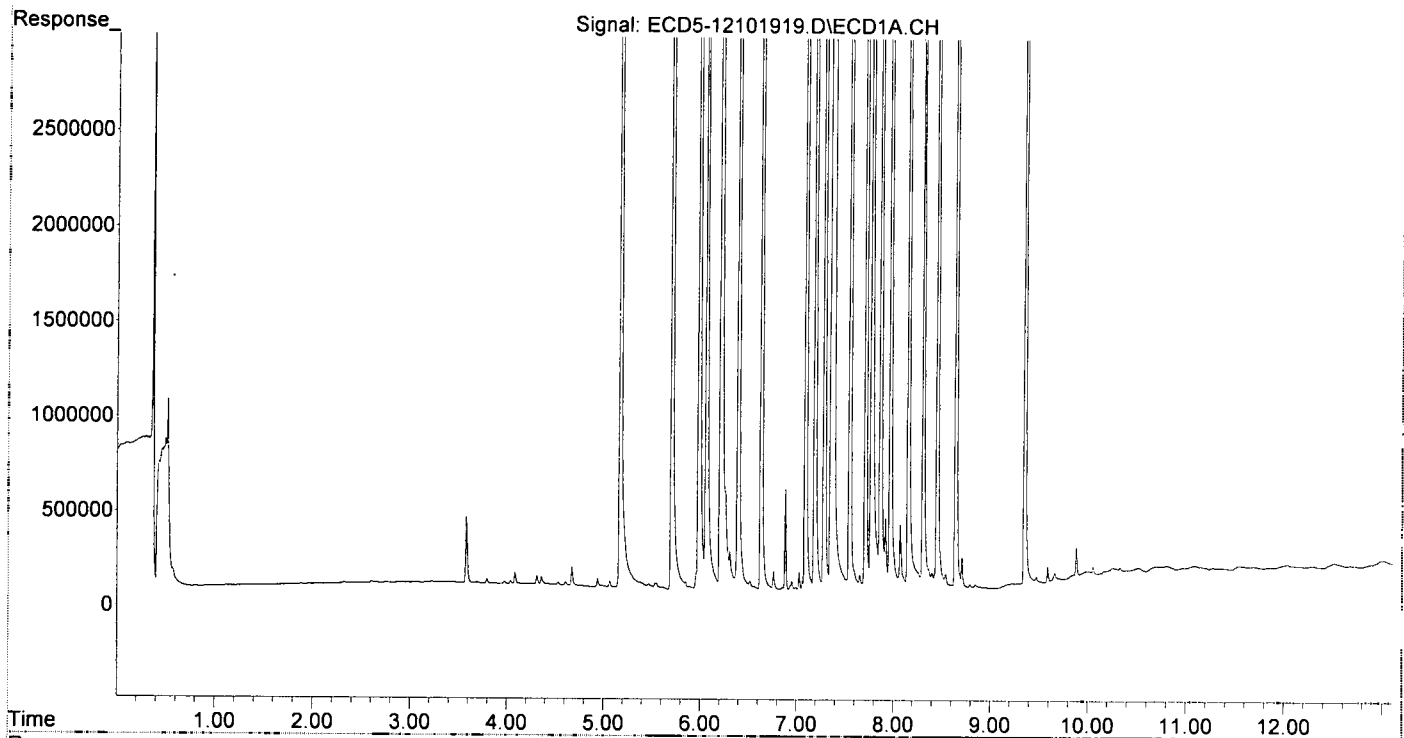
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.761	16515513	27916057	99.506	95.158
22) S DCBP (S)	9.354	10.264	13701989	21157356	97.109	117.696
Target Compounds						
2) a-BHC	5.705	6.366	24570250	43289255	107.140	105.496
3) g-BHC	5.986	6.683	21074585	38010883	104.445	106.561
4) b-BHC	6.063	6.750	7602471	13865319	84.113	87.608
5) Heptachlor	6.394	7.050	21807011	37630167	120.284	122.984
6) d-BHC	6.210	7.001	17087546	32683169	86.875	92.675
7) Aldrin	6.632	7.312	20835878	36841394	105.527	111.847
8) Heptachlo...	7.091	7.750	19540623	31800590	106.096	105.703
9) trans-Chl...	7.187	7.889	19351383	32429881	104.663	103.502
10) cis-Chlor...	7.284	7.996	19318587	30784259	106.105	105.698
11) Endosulfa...	7.377	8.044	19564000	29306675	114.961	106.501
12) 4,4'-DDE	7.354	8.111	17180404	29243256	91.128m	94.127
13) Dieldrin	7.549	8.244	20442127	34148480	106.481	112.275
14) Endrin	7.712	8.468	17452108	27212441	118.700	120.501
15) 4,4'-DDD	7.772	8.523	14625710	24197112	93.074	94.441
16) Endosulfa...	7.867	8.616	15875155	26270657	110.542	113.920
17) 4,4'-DDT	7.968	8.746	14340984	21740944	119.948	105.404
18) Endrin Al...	8.155	8.852	13481305	21907712	106.936	105.739
19) Endosulfa...	8.454	9.043	15518079	24934116	100.131	100.102
20) Methoxychlor	8.308	9.226	6863339	10678591	117.173	107.100
21) Endrin Ke...	8.646	9.435	18082399	28791954	108.435	111.893
23) Hexachlor...	0.000	3.481	0	16387	N.D.	0.044 #
24) Hexachlor...	5.545	0.000	31818	0	0.180	N.D. #
25) Oxychlorthane	7.028	7.688	90440	24366	0.550	0.089 #
26) 2,4'-DDE	7.091	7.889	19540623	32429881	152.350	152.872
27) trans-Non...	7.284	7.948	19318587	123585	107.644	0.410 #
28) 2,4'-DDD	0.000	8.244	0	34148480	N.D.	180.810 #
29) 2,4'-DDT	7.654	8.468	75553	27212441	0.689	152.588 #
30) cis-Nonac...	7.772f	8.523	14625710	24197112	70.446	72.133
31) Mirex	8.401	9.435	82842	28791954	0.661	154.734 #
32) Chlordane...	0.000	7.948	0	123585	N.D.	3.415 #
33) Chlordane...	7.377f	8.044	19564000	29306675	780.553	965.176
34) Chlordane...	7.867	8.693f	15875155	130735	2746.034	14.581 #
35) Chlordane...	0.000	3.438	0	11427	N.D.	NoCal
36) Toxaphene...	7.284f	0.000	19318587	0	21569.410	N.D. #
37) Toxaphene...	0.000	8.616	0	26270657	N.D.	7982.515 #
38) Toxaphene...	0.000	8.693f	0	130735	N.D.	25.795 #
39) Toxaphene...	8.155	8.746	13481305	21740944	4160.701	2603.758
40) Toxaphene...	8.401	8.937f	82842	708894	34.559	152.111 #
41) Toxaphene...	8.454	9.311f	15518079	243320	4903.673	51.223 #
42) Toxaphene...	0.000	3.438f	0	11427	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:03  
Operator : MJB  
Sample : 9L10037-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 17:28:57 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

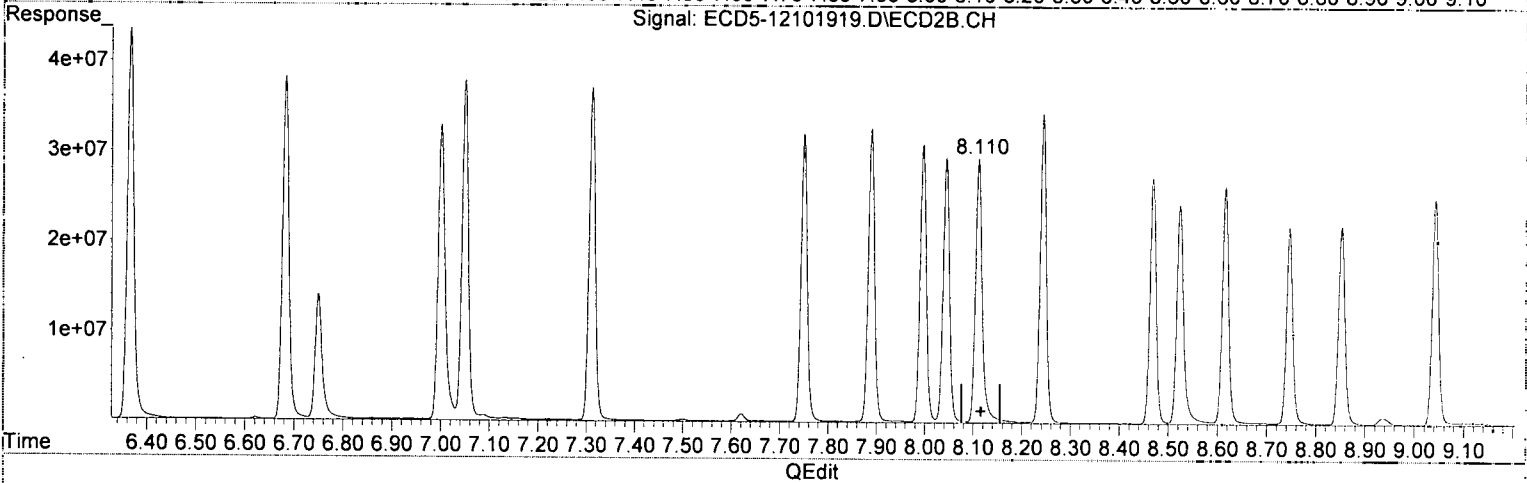
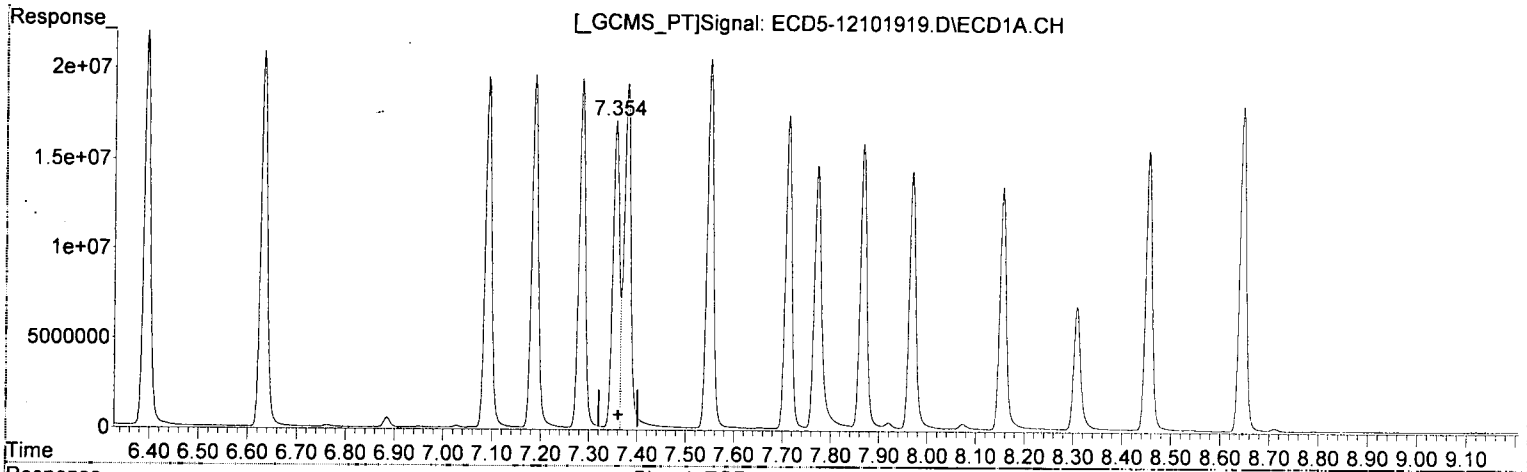




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:03  
Operator : MJB  
Sample : 9L10037-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 17:28:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.354min 91.128 ng/mL (m)  
response 17180404

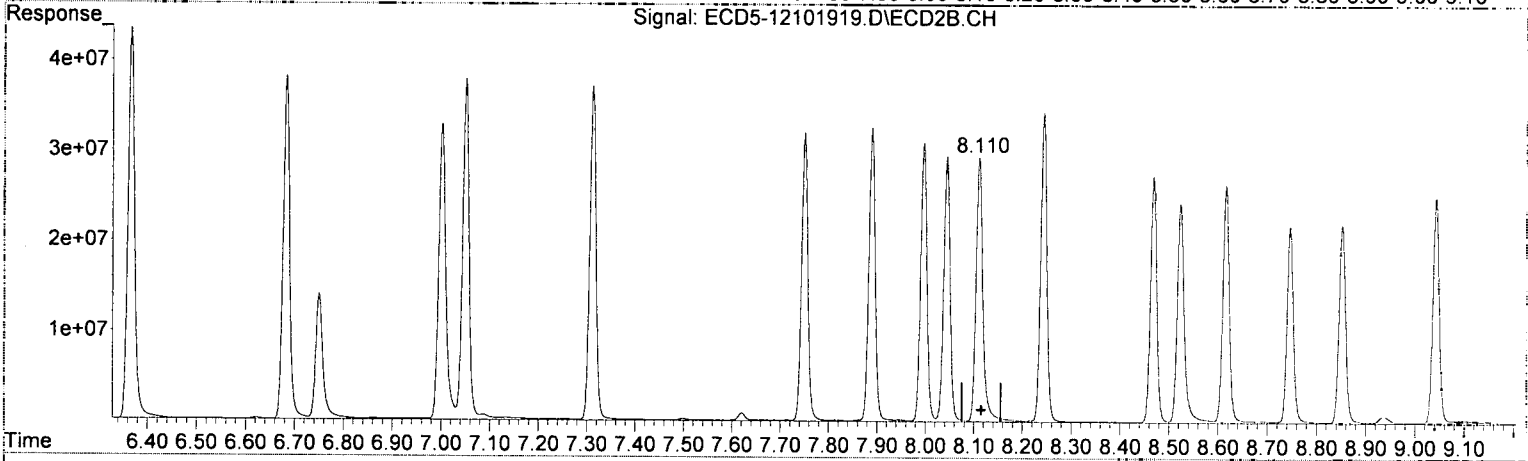
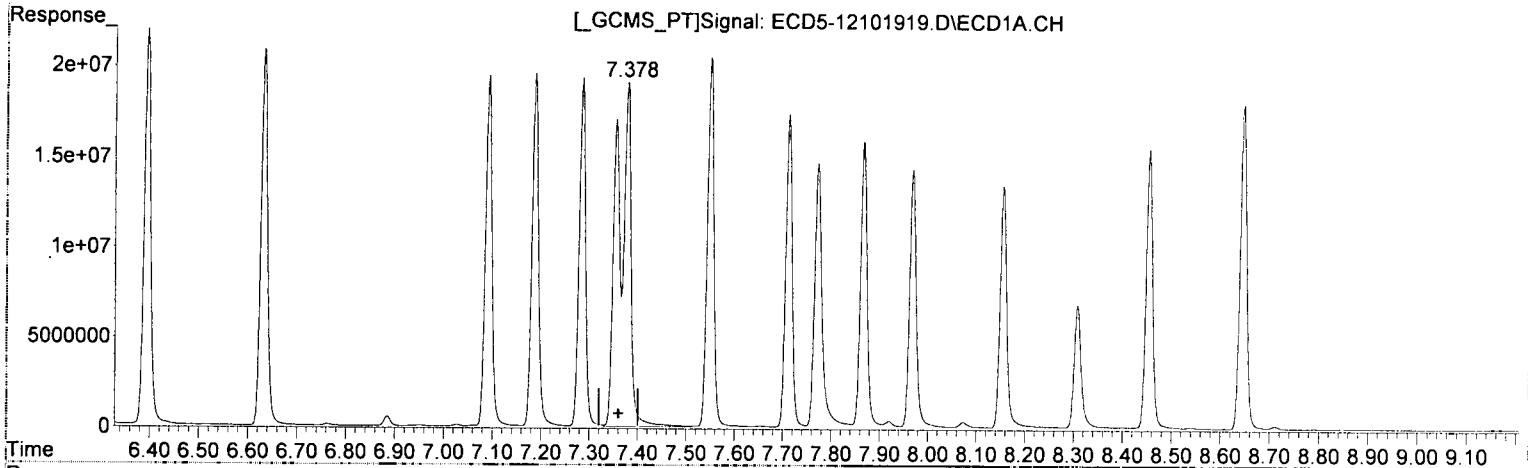
*MJB*  
*12/10/19*

(12) 4,4'-DDE #2  
8.111min 94.127 ng/mL  
response 29243256

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:03  
Operator : MJB  
Sample : 9L10037-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 17:28:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualeCD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.377min 103.771 ng/mL  
response 19564000

*WP*  
*12/10/19*

(12) 4,4'-DDE #2  
8.111min 94.127 ng/mL  
response 29243256

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101919.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:03  
 Operator : MJB  
 Sample : 9L10037-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 17:28:29 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

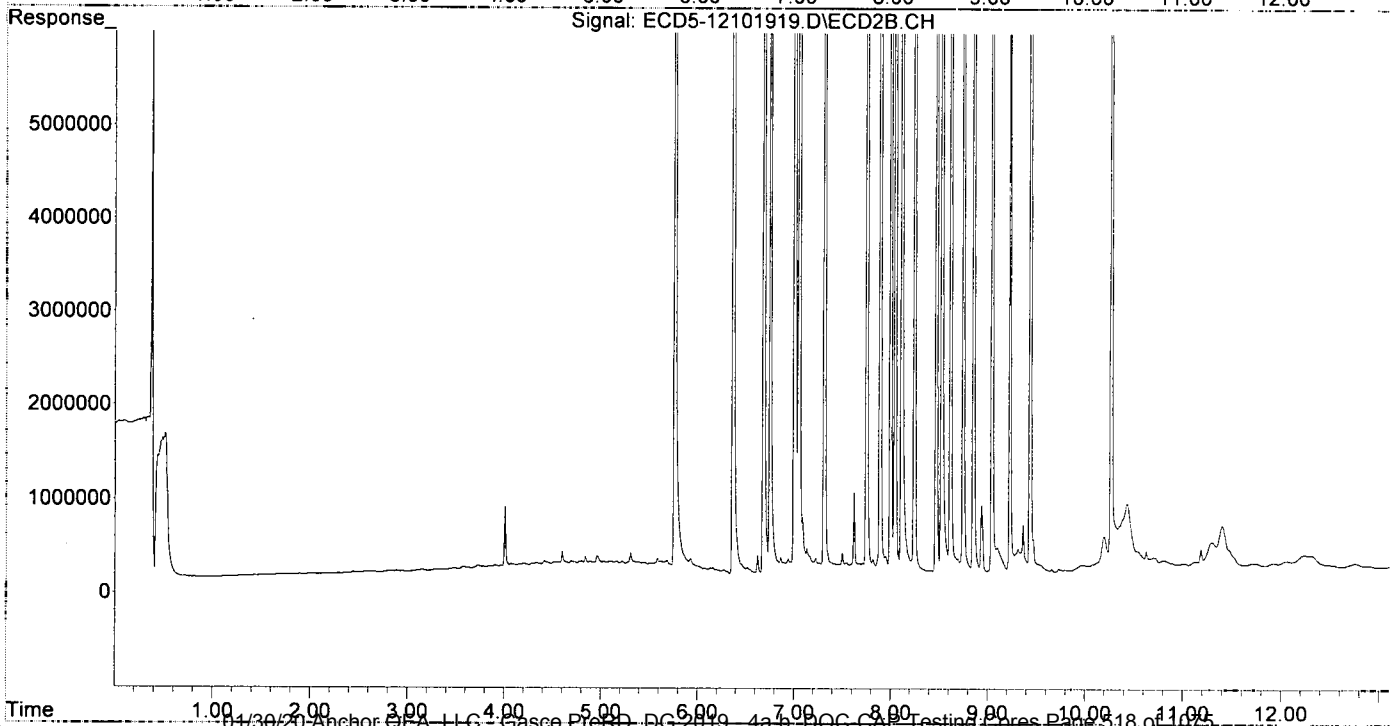
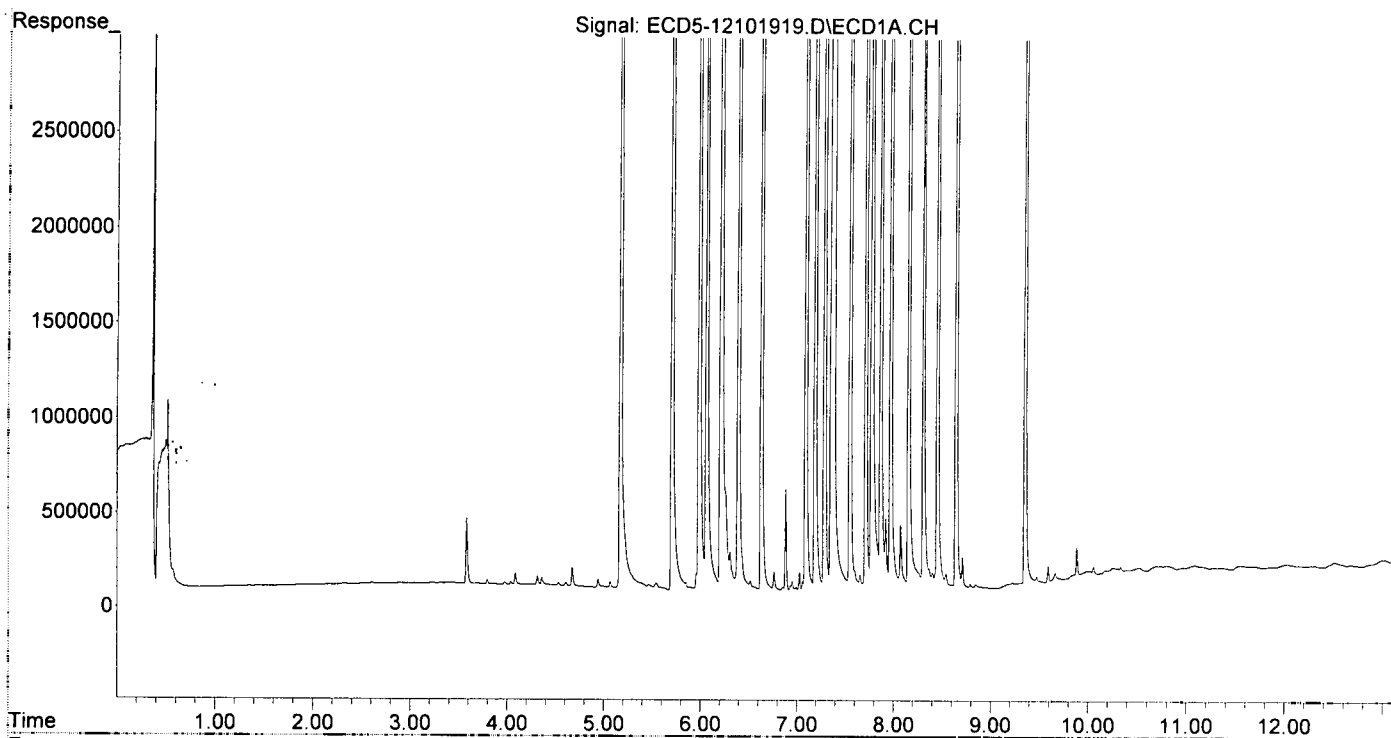
*(MI)*  
*MJB*  
*12/10/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.761	16515513	27916057	99.506	95.158
22) S DCBP (S)	9.354	10.264	13701989	21157356	97.109	117.696
Target Compounds						
2) a-BHC	5.705	6.366	24570250	43289255	107.140	105.496
3) g-BHC	5.986	6.683	21074585	38010883	104.445	106.561
4) b-BHC	6.063	6.750	7602471	13865819	84.113	87.608
5) Heptachlor	6.394	7.050	21807011	37630167	120.284	122.984
6) d-BHC	6.210	7.001	17087546	32683169	86.875	92.675
7) Aldrin	6.632	7.312	20835878	36841394	105.527	111.847
8) Heptachlo...	7.091	7.750	19540623	31800590	106.096	105.703
9) trans-Chl...	7.187	7.889	19351383	32429881	104.663	103.502
10) cis-Chlor...	7.284	7.996	19318587	30784259	106.105	105.698
11) Endosulfa...	7.377	8.044	19564000	29306675	114.961	106.501
12) 4,4'-DDE	7.377	8.111	19564000	29243256	103.771	94.127
13) Dieldrin	7.549	8.244	20447127	34148480	106.481	112.275
14) Endrin	7.712	8.468	17452108	27212441	118.700	120.501
15) 4,4'-DDD	7.772	8.523	14625710	24197112	93.074	94.441
16) Endosulfa...	7.867	8.616	15875155	26270657	110.542	113.920
17) 4,4'-DDT	7.968	8.746	14340984	21740944	119.948	105.404
18) Endrin Al...	8.155	8.852	13481305	21907712	106.936	105.739
19) Endosulfa...	8.454	9.043	15518079	24934116	100.131	100.102
20) Methoxychlor	8.308	9.226	6863339	10678591	117.173	107.100
21) Endrin Ke...	8.646	9.435	18082399	28791954	108.435	111.893
23) Hexachlor...	0.000	3.438f	0	16387	N.D.	0.044 #
24) Hexachlor...	5.545	0.000	31818	0	0.180	N.D. #
25) Oxychlordane	7.028	7.688	90440	24366	0.550	0.089 #
26) 2,4'-DDE	7.091	7.889	19540623	32429881	152.350	152.872
27) trans-Non...	7.284	7.948	19318587	123585	107.644	0.410 #
28) 2,4'-DDD	0.000	8.244	0	34148480	N.D.	180.810 #
29) 2,4'-DDT	7.654	8.468	75553	27212441	0.689	152.588 #
30) cis-Nonac...	7.772f	8.523	14625710	24197112	70.446	72.133
31) Mirex	8.401	9.435	82842	28791954	0.661	154.734 #
32) Chlordane...	0.000	7.948	0	123585	N.D.	3.415 #
33) Chlordane...	7.377f	8.044	19564000	29306675	780.553	965.176
34) Chlordane...	7.867	8.693f	15875155	130735	2746.034	14.581 #
35) Chlordane...	0.000	3.438	0	11427	N.D.	NoCal
36) Toxaphene...	7.284f	0.000	19318587	0	21569.410	N.D. #
37) Toxaphene...	0.000	8.616	0	26270657	N.D.	7982.515 #
38) Toxaphene...	0.000	8.693f	0	130735	N.D.	25.795 #
39) Toxaphene...	8.155	8.746	13481305	21740944	4160.701	2603.758
40) Toxaphene...	8.401	8.937f	82842	708894	34.559	152.111 #
41) Toxaphene...	8.454	9.311f	15518079	243320	4903.673	51.223 #
42) Toxaphene...	0.000	3.438f	0	11427	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:03  
Operator : MJB  
Sample : 9L10037-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 17:28:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101920.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:21  
 Operator : MJB  
 Sample : 9L10037-CCV4  
 Misc : A19J409, 9-42 100 ppb  
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 17:36:42 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

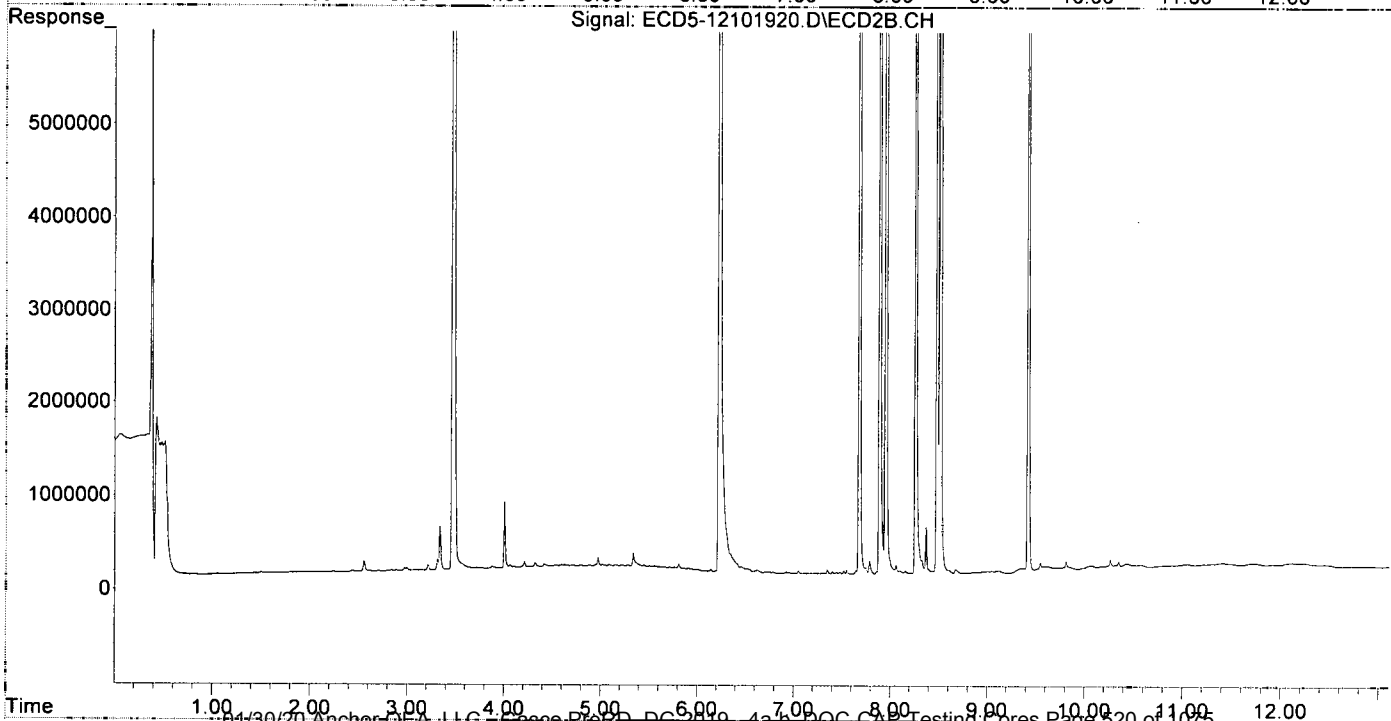
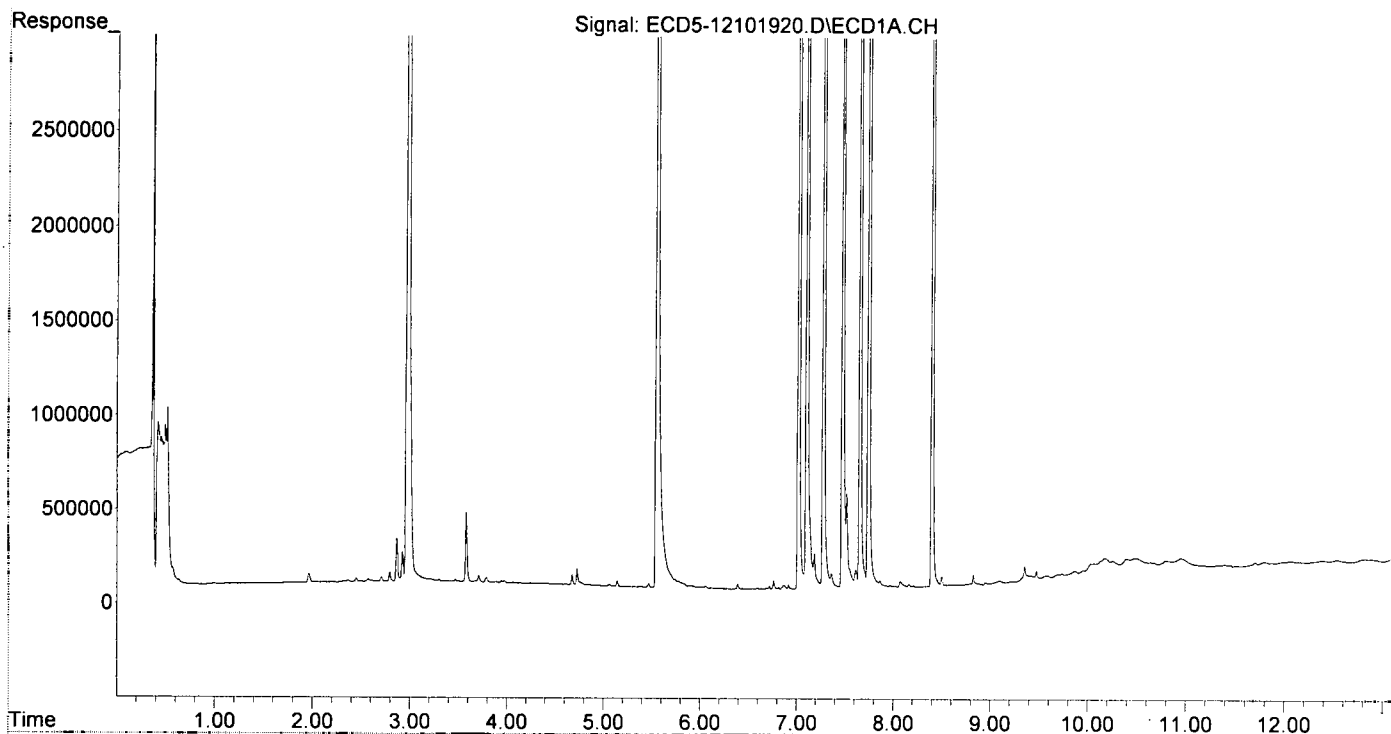
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.144f	0.000	33639	0	0.203	N.D.	#
22) S DCBP (S)	9.355	10.262	84577	78221	0.599	0.435	
Target Compounds							
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3) g-BHC	0.000	6.713f	0	15757	N.D.	0.044	#
4) b-BHC	6.056	6.751	11818	10699	0.131	0.068	#
5) Heptachlor	6.393	7.048	28010	32443	0.155	0.106	
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7) Aldrin	6.631	7.305	4140	10315	0.021	0.031	#
8) Heptachlo...	7.104	7.747	10968884	72414	59.556	0.241	#
9) trans-Chl...	7.185	7.887	188263	19714106	1.018	62.919	#
10) cis-Chlor...	7.277	0.000	18483404	0	101.517	N.D.	#
11) Endosulfa...	7.363f	8.059	79804	87894	0.469	0.319	
12) 4,4'-DDE	7.363	8.153f	79804	22026	0.423	0.071	#
13) Dieldrin	7.519f	8.259	499161	16712294	2.600	54.948	#
14) Endrin	7.744f	8.480	21235360	18296500	144.432	81.020	#
15) 4,4'-DDD	7.744f	8.514	21235360	35109519	135.136	137.032	
16) Endosulfa...	7.865	0.000	35848	0	0.250	N.D.	#
17) 4,4'-DDT	7.968	0.000	10794	0	0.090	N.D.	#
18) Endrin Al...	8.165	8.852	14716	7517	BelowCal	BelowCal	
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.	
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.	
21) Endrin Ke...	8.646	9.419f	6230	18380539	0.037	71.432	#
23) Hexachlor...	2.973	3.469	18174041	41962821	99.453	111.623	
24) Hexachlor...	5.550	6.225	17709318	29629247	100.454	94.334	
25) Oxychlorane	7.020	7.679	15950987	27188142	96.944	99.262	
26) 2,4'-DDE	7.104	7.887	10968884	19714106	85.520	92.931	
27) trans-Non...	7.277	7.952	18483404	31079576	102.971	103.037	
28) 2,4'-DDD	7.474	8.259	10052887	16712294	88.087	88.489	
29) 2,4'-DDT	7.655	8.480	11810535	18296500	107.674	102.594	
30) cis-Nonac...	7.744	8.514	21235360	35109519	102.282	104.664	
31) Mirex	8.402	9.419	12115381	18380539	96.640	98.781	
32) Chlordane...	7.277f	7.952	18483404	31079576	938.739	858.918	
33) Chlordane...	7.363f	8.059	79804	87894	3.184	2.895	
34) Chlordane...	7.865	0.000	35848	0	6.201	N.D.	#
35) Chlordane...	3.468	3.469	20981	41962821	NoCal	NoCal	
36) Toxaphene...	0.000	8.259f	0	16712294	N.D.	6368.388	#
37) Toxaphene...	7.613	8.674f	94900	40596	58.764	12.336	#
38) Toxaphene...	0.000	8.674	0	40596	N.D.	8.010	#
39) Toxaphene...	8.165	0.000	14716	0	4.542	N.D.	#
40) Toxaphene...	8.402	0.000	12115381	0	5054.094	N.D.	#
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42) Toxaphene...	3.468	3.469	20981	41962821	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101920.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:21  
Operator : MJB  
Sample : 9L10037-CCV4  
Misc : A19J409, 9-42 100 ppb  
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 17:36:42 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:38  
 Operator : MJB  
 Sample : 9L10037-CCB2  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 18:12:37 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

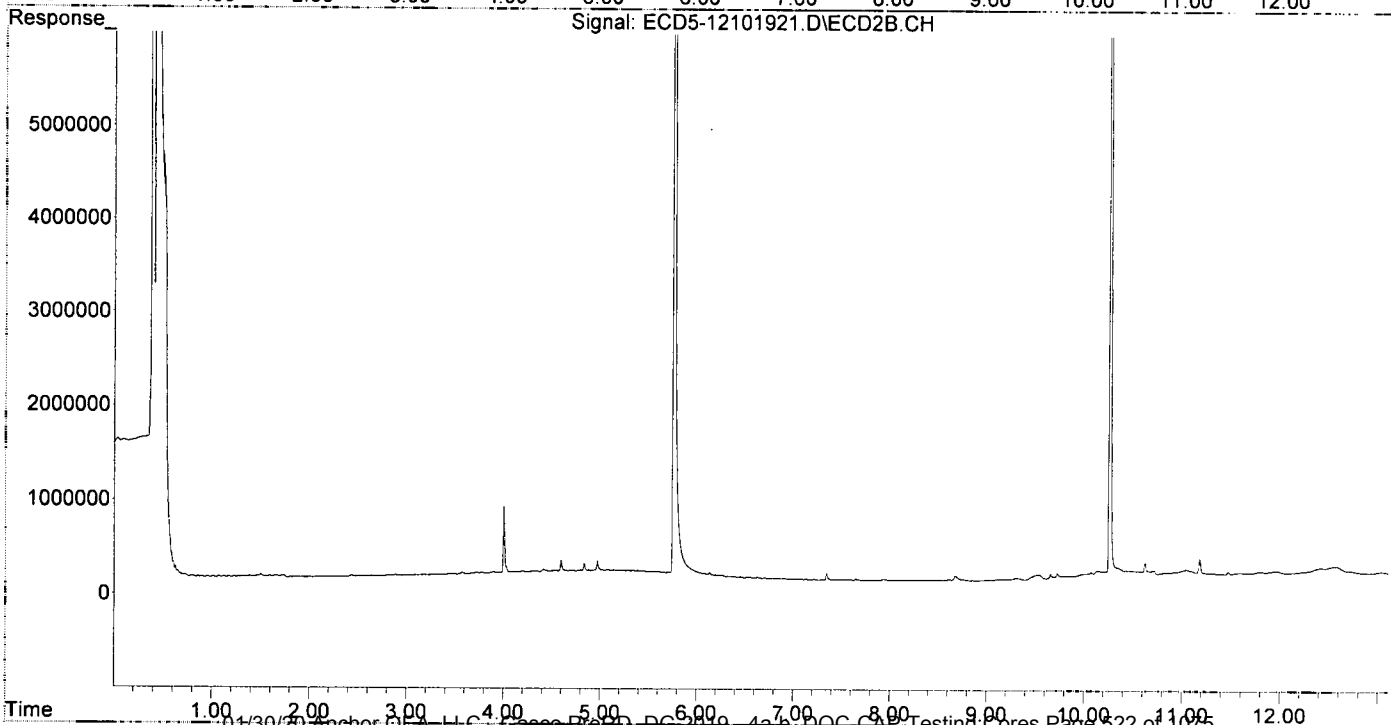
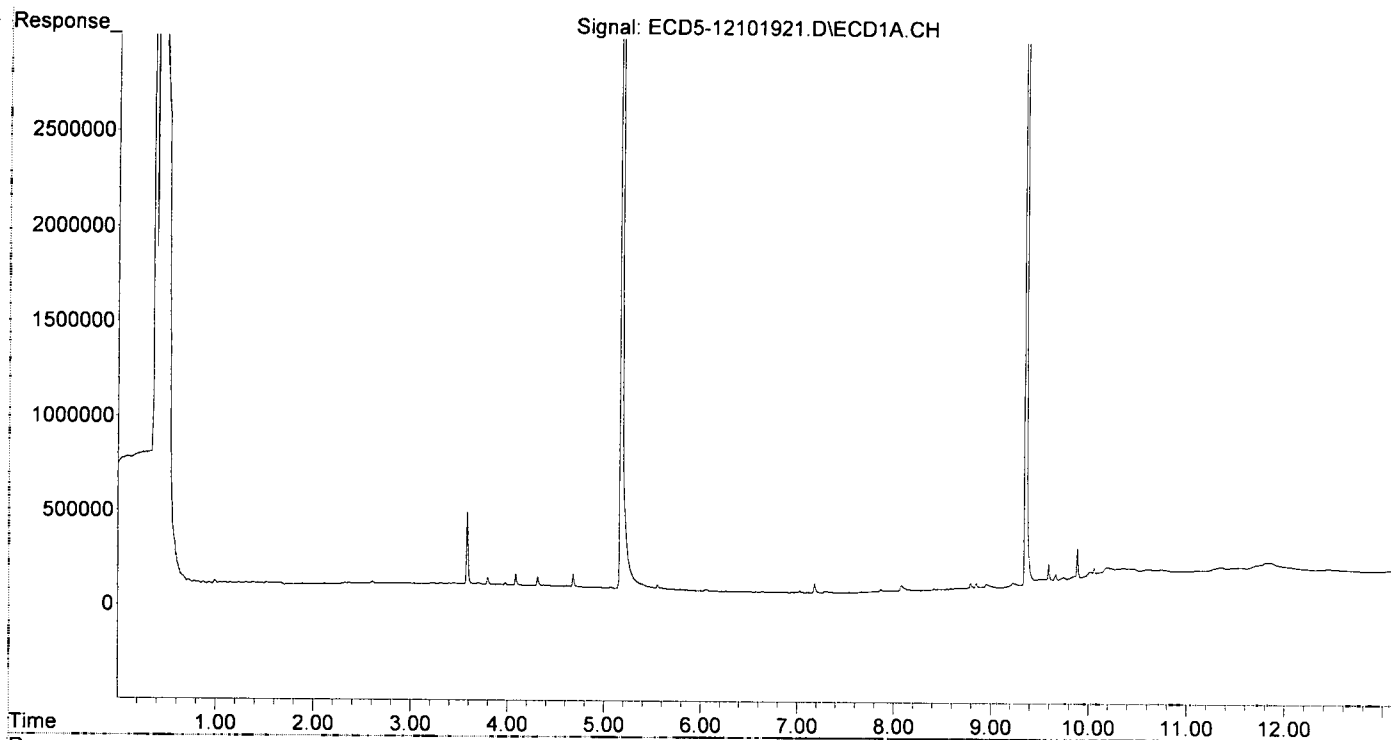
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.760	17178770	28771873	103.502	98.075
22) S DCBP (S)	9.355	10.263	14260855	21300408	101.070	118.492
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.061	0.000	7649	0	0.085	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.636	7.348f	4844	72062	0.025	0.219 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.180	7.931f	48453	9338	0.262	0.030 #
10) cis-Chlor...	7.290	0.000	7761	0	0.043	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	7.335f	0.000	4928	0	0.026	N.D. #
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.867	8.606	14256	15825	0.099	0.069
17) 4,4'-DDT	0.000	8.761	0	9881	N.D.	0.019 #
18) Endrin Al...	8.157	0.000	8061	0	BelowCal	N.D.
19) Endosulfa...	8.456	9.042	4692	7536	0.030	0.030
20) Methoxychlor	8.307	9.210	3724	8919	0.064	BelowCal #
21) Endrin Ke...	8.669	0.000	4967	0	0.030	N.D. #
23) Hexachlor...	0.000	3.492	0	8317	N.D.	0.022 #
24) Hexachlor...	5.550	0.000	23382	0	0.133	N.D. #
25) Oxychlorane	7.025	7.648f	10476	12190	0.064	0.045
26) 2,4'-DDE	0.000	7.931f	0	9338	N.D.	0.044 #
27) trans-Non...	7.290	7.931f	7761	9338	87346.657	0.031 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.666	0.000	3806	0	0.035	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.415	0.000	8642	0	0.069	N.D. #
32) Chlordane...	0.000	7.931f	0	9338	N.D.	0.258 #
33) Chlordane...	7.335	0.000	4928	0	0.197	N.D. #
34) Chlordane...	7.867	8.677f	14256	50749	2.466	5.660 #
35) Chlordane...	0.000	3.433	0	9529	N.D.	NoCal
36) Toxaphene...	7.335	0.000	4928	0	5.502	N.D. #
37) Toxaphene...	0.000	8.606f	0	15825	N.D.	4.809 #
38) Toxaphene...	0.000	8.677	0	50749	N.D.	10.013 #
39) Toxaphene...	8.157	8.761f	8061	9881	2.488	1.183 #
40) Toxaphene...	8.415f	0.000	8642	0	3.605	N.D. #
41) Toxaphene...	8.456	9.294	4692	22573	1.483	4.752 #
42) Toxaphene...	0.000	3.433f	0	9529	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:38  
Operator : MJB  
Sample : 9L10037-CCB2  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 18:12:37 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101922.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:55  
 Operator : MJB  
 Sample : 9120580-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 18:14:37 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/10/19

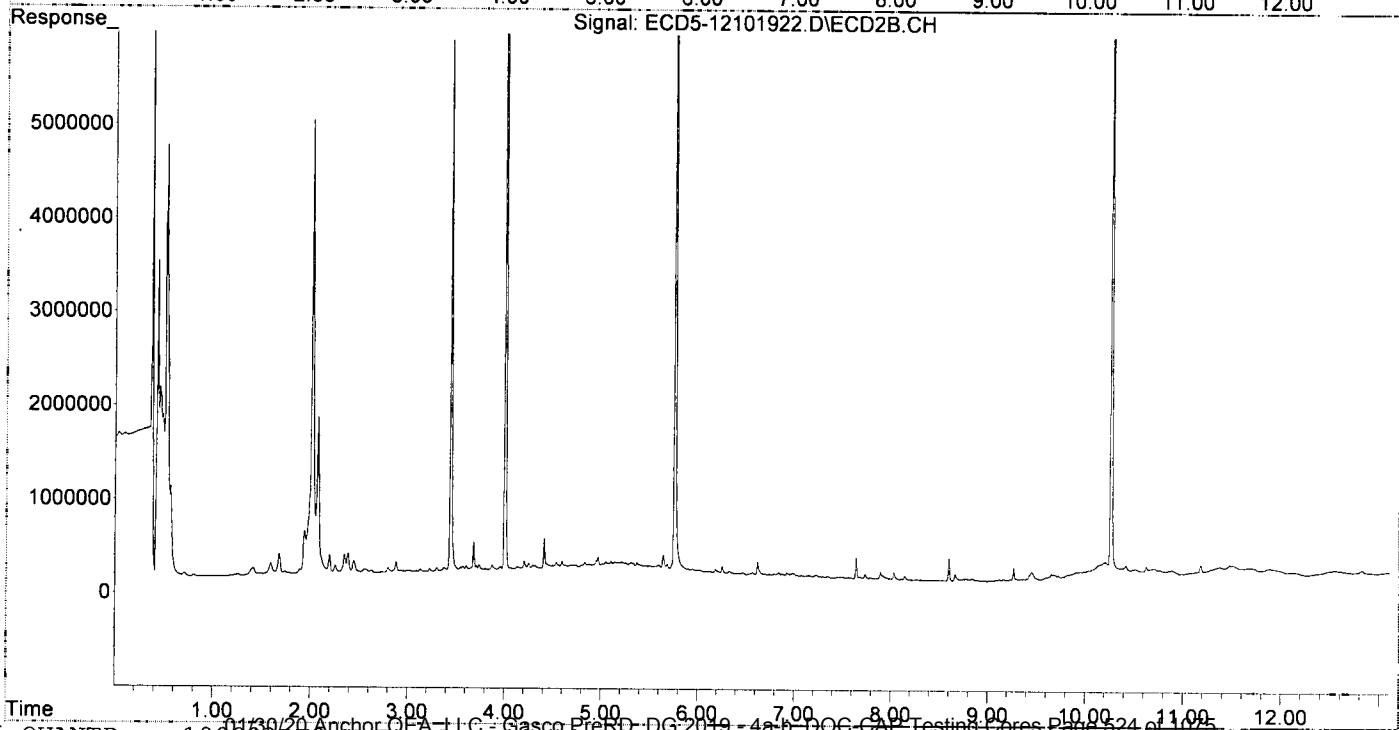
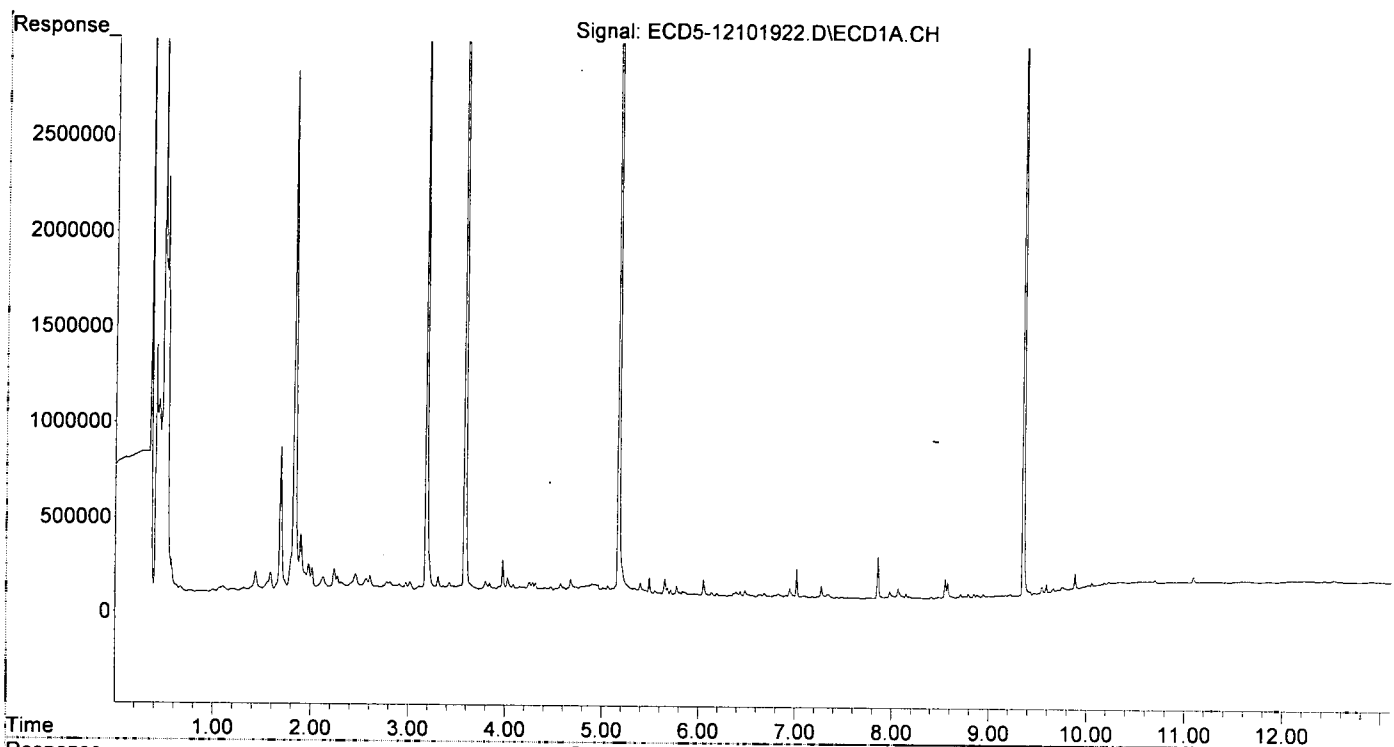
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.760	5876316	10227827	35.405	34.864
22) S DCBP (S)	9.354	10.262	6937577	9323489	49.168	51.865
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	5.958f	6.671	15831	55072	0.078	0.154 #
4) b-BHC	6.054	6.741	90953	47424	1.006	0.300 #
5) Heptachlor	6.388	7.074	27241	36970	0.150	0.121
6) d-BHC	6.240f	6.984f	10962	60524	0.056	0.172 #
7) Aldrin	6.642	7.349f	14351	28239	0.073	0.086
8) Heptachlo...	7.100	7.736	11793	57912	0.064	0.192 #
9) trans-Chl...	7.178	7.895	9093	78672	0.049	0.251 #
10) cis-Chlor...	7.273	8.034f	64584	80196	0.355	0.275
11) Endosulfa...	0.000	8.034	0	80196	N.D.	0.291 #
12) 4,4'-DDE	7.339f	8.110	19996	9218	0.106	0.030m#
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	7.760	0.000	4317	0	0.027	N.D. #
16) Endosulfa...	7.859	8.601	224180	241443	1.561	1.047
17) 4,4'-DDT	7.981	8.751	35173	19339	0.294	0.075 #
18) Endrin Al...	8.149	8.842	23847	26668	BelowCal	BelowCal
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	0.000	9.239	0	10777	N.D.	BelowCal
21) Endrin Ke...	0.000	9.452	0	89373	N.D.	0.347 #
23) Hexachlor...	2.975	3.443f	58790	5714987	0.322	15.202 #
24) Hexachlor...	5.551	6.210	29028	76668	0.165	0.244 #
25) Oxychlordane	7.018	7.677	150603	24100	0.915	0.088 #
26) 2,4'-DDE	7.100	7.895	11793	78672	0.092	0.371 #
27) trans-Non...	7.273	7.960	64584	20449	0.044	0.068 #
28) 2,4'-DDD	7.482	0.000	6072	0	0.053	N.D. #
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	7.760	0.000	4317	0	0.021	N.D. #
31) Mirex	8.410	9.452f	8062	89373	0.064	0.480 #
32) Chlordane...	7.273f	7.960	64584	20449	3.280	0.565 #
33) Chlordane...	7.339	8.034f	19996	80196	0.798	2.641 #
34) Chlordane...	7.859f	8.751f	224180	19339	38.778	2.157 #
35) Chlordane...	0.000	3.443	0	5714987	N.D.	NoCal
36) Toxaphene...	7.339f	0.000	19996	0	22.325	N.D. #
37) Toxaphene...	0.000	8.665f	0	68167	N.D.	20.713 #
38) Toxaphene...	0.000	8.665	0	68167	N.D.	13.450 #
39) Toxaphene...	8.149	8.751	23847	19339	7.360	2.316 #
40) Toxaphene...	8.410f	0.000	8062	0	3.363	N.D. #
41) Toxaphene...	0.000	9.267	0	137367	N.D.	28.918 #
42) Toxaphene...	0.000	3.443	0	5714987	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101922.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:55  
 Operator : MJB  
 Sample : 9120580-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

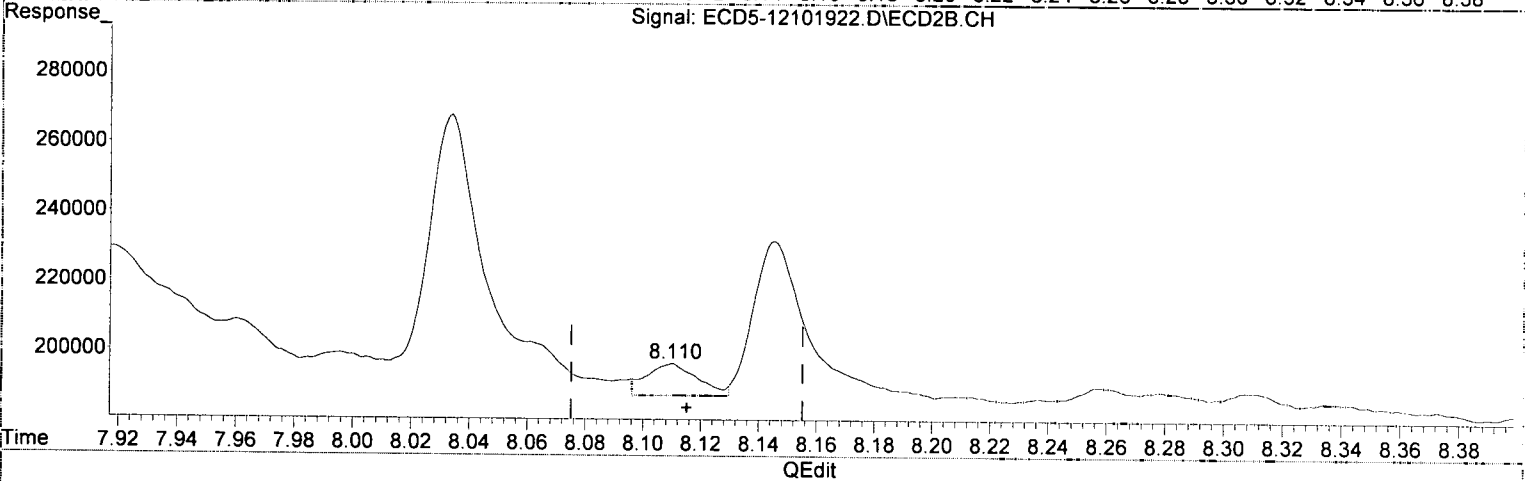
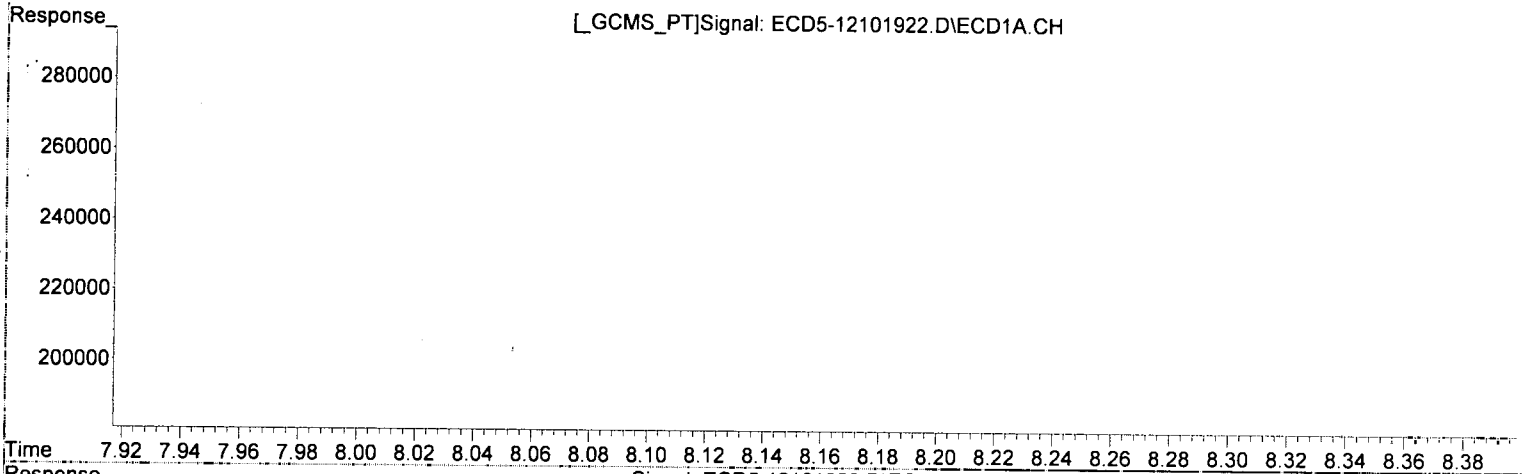
Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 18:14:37 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101922.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:55  
Operator : MJB  
Sample : 9120580-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 18:14:19 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.339min 0.106 ng/mL  
response 19996

*MJB  
12/10/19*

(12) 4,4'-DDE #2  
8.110min 0.030 ng/mL  
response 9218

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101922.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 17:55  
 Operator : MJB  
 Sample : 9120580-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 18:14:19 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB

MJB  
12/10/19

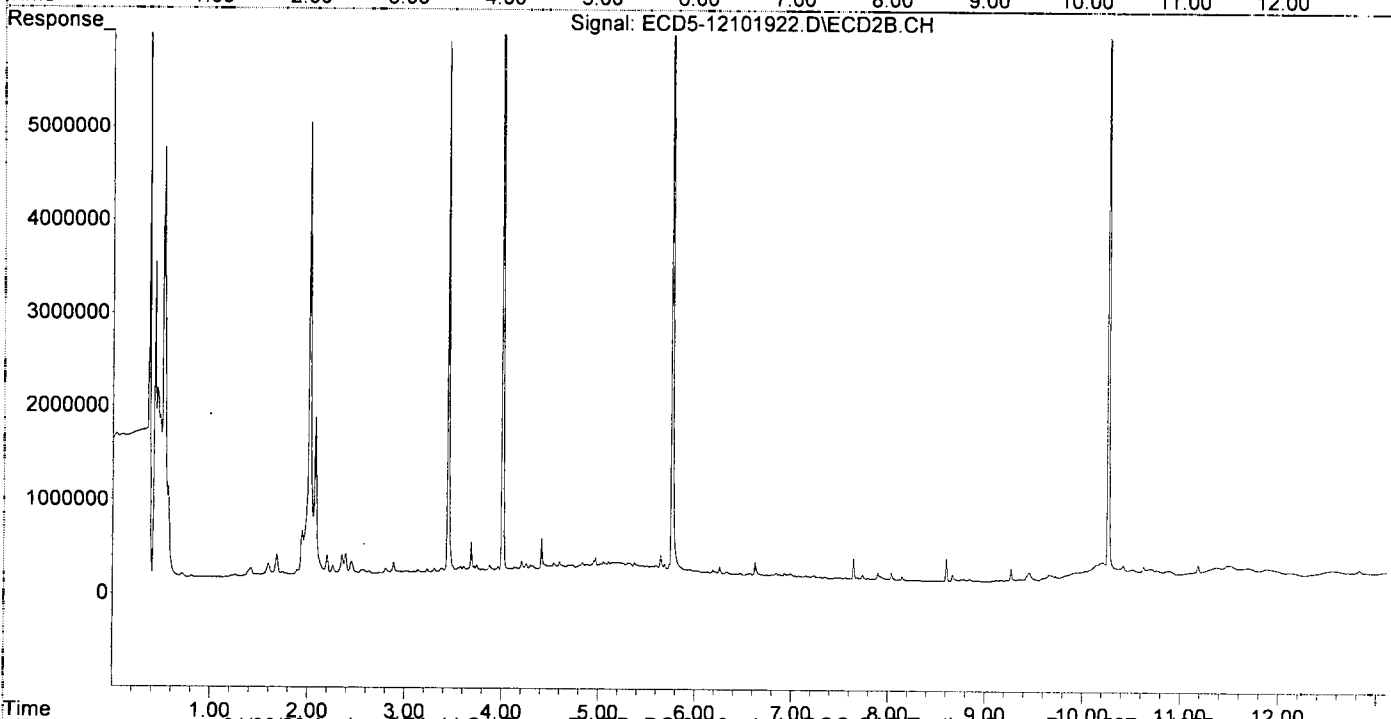
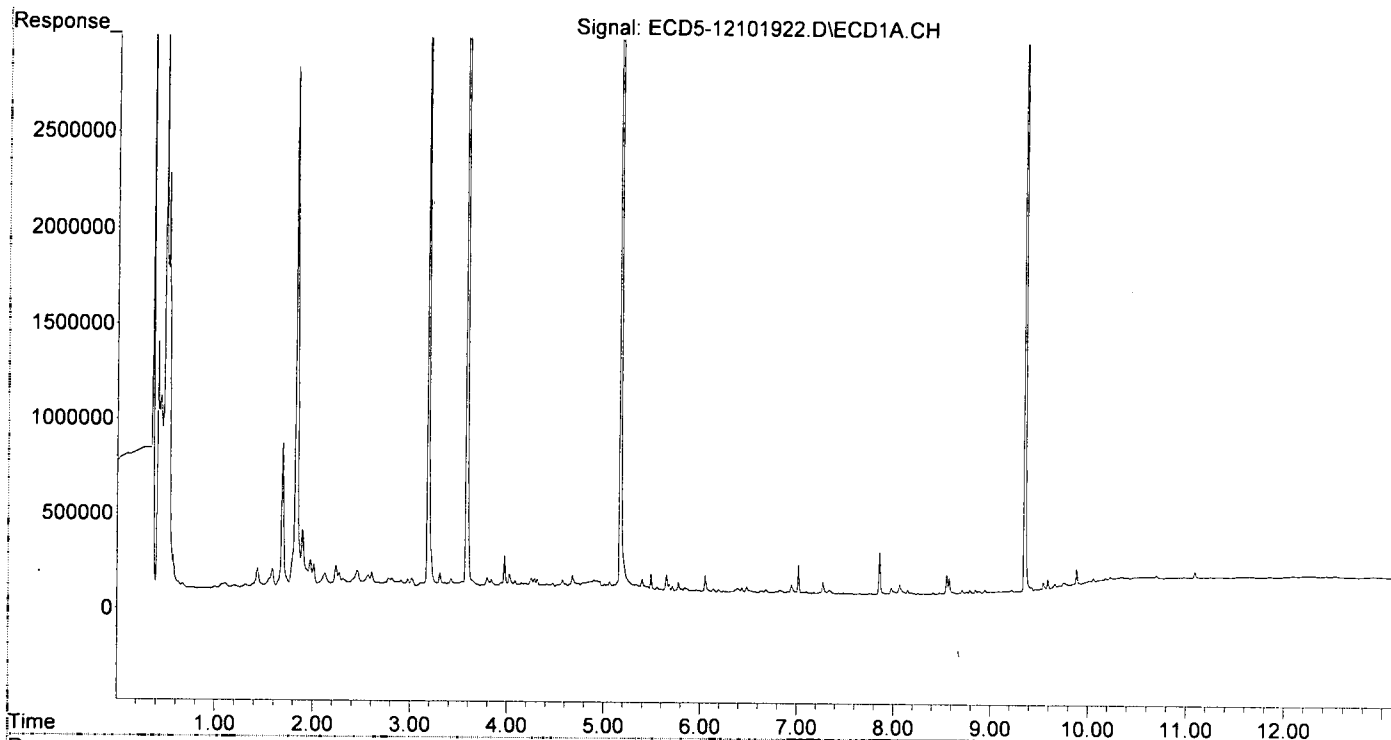
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.760	5876316	10227827	35.405	34.864
22) S DCBP (S)	9.354	10.262	6937577	9323489	49.168	51.865
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	5.958f	6.671	15831	55072	0.078	0.154 #
4) b-BHC	6.054	6.741	90953	47424	1.006	0.300 #
5) Heptachlor	6.388	7.074	27241	36970	0.150	0.121
6) d-BHC	6.240f	6.984f	10962	60524	0.056	0.172 #
7) Aldrin	6.642	7.349f	14351	28239	0.073	0.086
8) Heptachlo...	7.100	7.736	11793	57912	0.064	0.192 #
9) trans-Chl...	7.178	7.895	9093	78672	0.049	0.251 #
10) cis-Chlor...	7.273	8.034f	64584	80196	0.355	0.275
11) Endosulfa...	0.000	8.034	0	80196	N.D.	0.291 #
12) 4,4'-DDE	7.339f	8.146f	19996	44605	0.106	0.144
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	7.760	0.000	4317	0	0.027	N.D. #
16) Endosulfa...	7.859	8.601	224180	241443	1.561	1.047
17) 4,4'-DDT	7.981	8.751	35173	19339	0.294	0.075 #
18) Endrin Al...	8.149	8.842	23847	26668	BelowCal	BelowCal
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	0.000	9.239	0	10777	N.D.	BelowCal
21) Endrin Ke...	0.000	9.452	0	89373	N.D.	0.347 #
23) Hexachlor...	2.975	3.443f	58790	5714987	0.322	15.202 #
24) Hexachlor...	5.551	6.210	29028	76668	0.165	0.244 #
25) Oxychlordane	7.018	7.677	150603	24100	0.915	0.088 #
26) 2,4'-DDE	7.100	7.895	11793	78672	0.092	0.371 #
27) trans-Non...	7.273	7.960	64584	20449	0.044	0.068 #
28) 2,4'-DDD	7.482	0.000	6072	0	0.053	N.D. #
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	7.760	0.000	4317	0	0.021	N.D. #
31) Mirex	8.410	9.452f	8062	89373	0.064	0.480 #
32) Chlordane...	7.273f	7.960	64584	20449	3.280	0.565 #
33) Chlordane...	7.339	8.034f	19996	80196	0.798	2.641 #
34) Chlordane...	7.859f	8.751f	224180	19339	38.778	2.157 #
35) Chlordane...	0.000	3.443	0	5714987	N.D.	NoCal
36) Toxaphene...	7.339f	0.000	19996	0	22.325	N.D. #
37) Toxaphene...	0.000	8.665f	0	68167	N.D.	20.713 #
38) Toxaphene...	0.000	8.665	0	68167	N.D.	13.450 #
39) Toxaphene...	8.149	8.751	23847	19339	7.360	2.316 #
40) Toxaphene...	8.410f	0.000	8062	0	3.363	N.D. #
41) Toxaphene...	0.000	9.267	0	137367	N.D.	28.918 #
42) Toxaphene...	0.000	3.443	0	5714987	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101922.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 17:55  
Operator : MJB  
Sample : 9120580-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 18:14:19 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101923.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 18:12  
 Operator : MJB  
 Sample : 9120580-BS1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 10 18:34:25 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/11/19

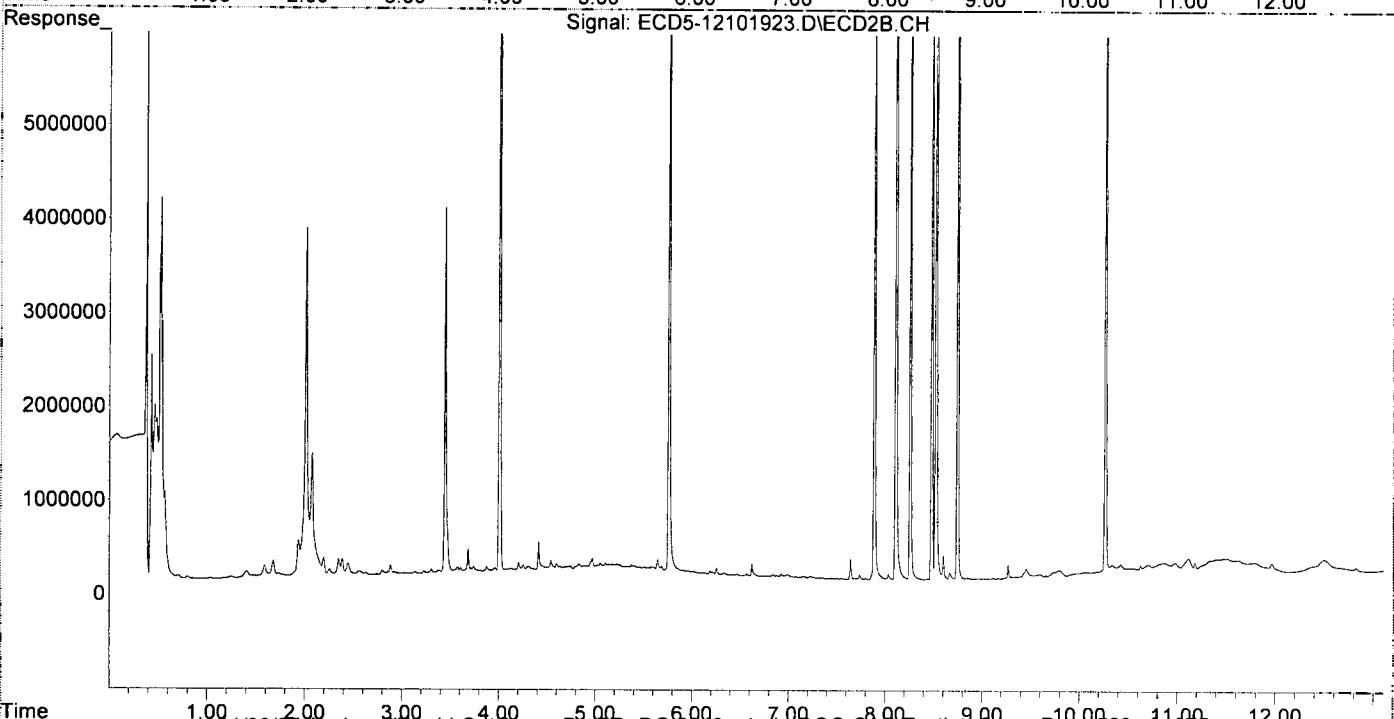
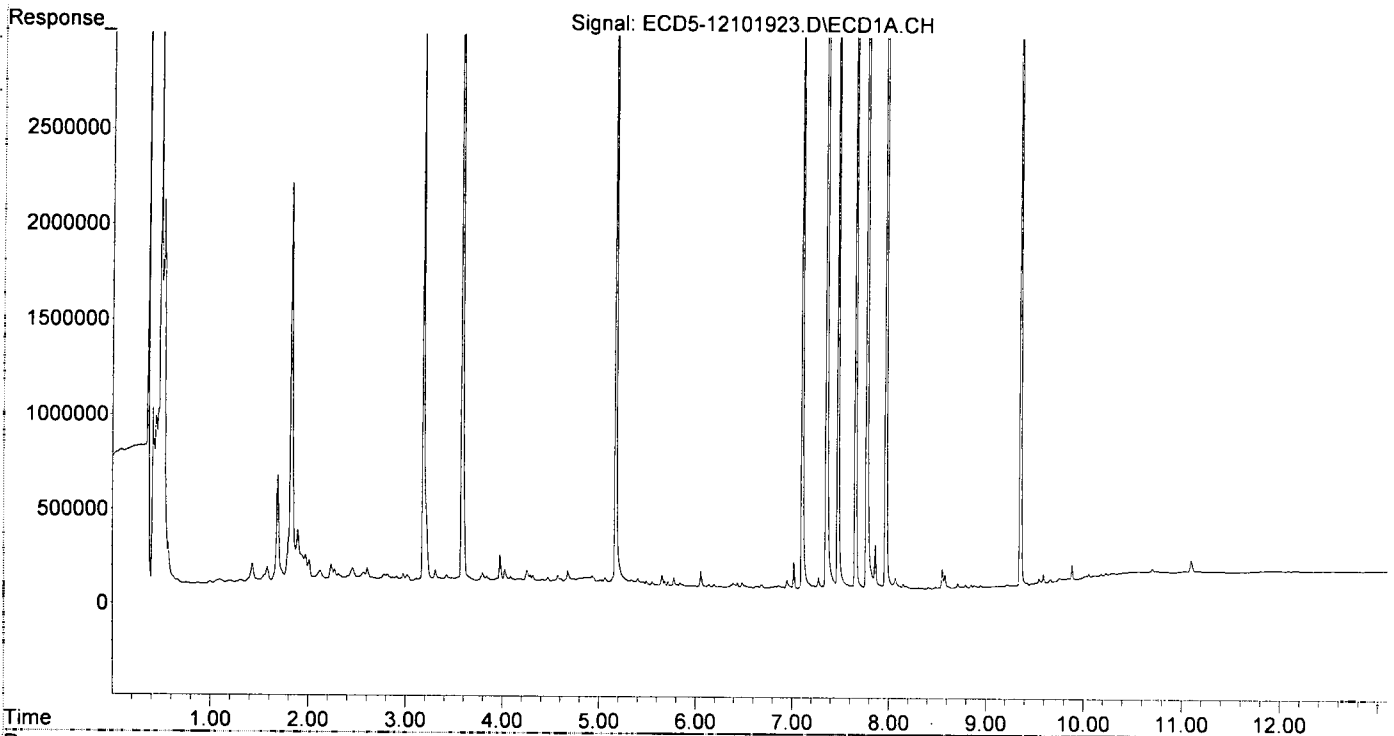
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.171	5.759	5440141	9246105	32.777	31.517	
22) S DCBP (S)	9.354	10.263	6208332	8481906	44.000	47.184	
Target Compounds							
2) a-BHC	5.712	0.000	29648	0	0.129	N.D.	#
3) g-BHC	0.000	6.669	0	14582	N.D.	0.041	#
4) b-BHC	6.054	6.742	84603	12282	0.936	0.078	#
5) Heptachlor	6.388	0.000	23327	0	0.129	N.D.	#
6) d-BHC	6.241f	6.985f	7854	34165	0.040	0.097	#
7) Aldrin	6.644	7.346f	8057	11709	0.041	0.036	#
8) Heptachlo...	7.103	7.736	5342310	48601	29.006	0.162	#
9) trans-Chl...	7.214f	7.887	15240	8793690	0.082	28.066	#
10) cis-Chlor...	7.272	8.033f	58958	52632	0.324	0.181	#
11) Endosulfa...	7.354f	8.033	8377219	52632	49.226	0.191	#
12) 4,4'-DDE	7.354	8.109	8377219	13738975	44.434	44.223	#
13) Dieldrin	0.000	8.258	0	8667998	N.D.	28.499	#
14) Endrin	0.000	8.480	0	9701733	N.D.	42.961	#
15) 4,4'-DDD	7.771	8.522	7696376	12971331	48.978	50.627	#
16) Endosulfa...	7.860	8.601	231026	248622	1.609	1.078	#
17) 4,4'-DDT	7.968	8.745	7982597	12009164	66.766	62.502	#
18) Endrin Al...	8.149	8.843	23859	10596	BelowCal	BelowCal	#
19) Endosulfa...	8.478	0.000	8718	0	0.056	N.D.	#
20) Methoxychlor	0.000	9.267f	0	147257	N.D.	1.638	#
21) Endrin Ke...	0.000	9.456	0	103008	N.D.	0.400	#
23) Hexachlor...	2.974	3.443f	59295	3900163	0.324	10.375	#
24) Hexachlor...	5.550	6.210	27001	18687	0.153	0.059	#
25) Oxychlordane	7.017	7.685	138911	14413	0.844	0.053	#
26) 2,4'-DDE	7.103	7.887	5342310	8793690	41.652	41.453	#
27) trans-Non...	7.272	0.000	58958	0	0.013	N.D.	#
28) 2,4'-DDD	7.472	8.258	5631731	8667998	49.347	45.896	#
29) 2,4'-DDT	7.654	8.480	6487520	9701733	59.145	54.400	#
30) cis-Nonac...	7.771f	8.522	7696376	12971331	37.070	38.668	#
31) Mirex	8.411	9.456f	7957	103008	0.063	0.554	#
32) Chlordane...	7.272f	0.000	58958	0	2.994	N.D.	#
33) Chlordane...	7.354	8.033f	8377219	52632	334.229	1.733	#
34) Chlordane...	7.860f	8.745f	231026	12009164	39.962	1339.430	#
35) Chlordane...	3.479	3.443	39532	3900163	NoCal	NoCal	#
36) Toxaphene...	7.311	8.258f	12240	8667998	13.666	3303.028	#
37) Toxaphene...	0.000	8.666f	0	65336	N.D.	19.853	#
38) Toxaphene...	0.000	8.666	0	65336	N.D.	12.891	#
39) Toxaphene...	8.149	8.745	23859	12009164	7.363	1438.252	#
40) Toxaphene...	8.411f	0.000	7957	0	3.319	N.D.	#
41) Toxaphene...	8.478f	9.267	8718	147257	2.755	31.000	#
42) Toxaphene...	3.479	3.443	39532	3900163	NoCal	NoCal	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101923.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 18:12  
Operator : MJB  
Sample : 9120580-BS1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 10 18:34:25 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101932.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 20:47  
 Operator : MJB  
 Sample : 9L10037-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 11 11:45:45 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/11/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.759	8343498	13336877	50.269	45.461
22) S DCBP (S)	9.355	10.262	6685732	9829533	47.383	54.680
Target Compounds						
2) a-BHC	5.705	6.364	12511890	21046353	54.559	51.290
3) g-BHC	5.986	6.681	10569711	18914140	52.383	53.025
4) b-BHC	6.064	6.749	3557120	6832829	39.356	43.173
5) Heptachlor	6.394	7.049	10246835	18105411	56.520	59.172
6) d-BHC	6.211	7.000	7833226	15698246	39.825	44.513
7) Aldrin	6.633	7.311	10450787	17796908	52.930	54.029
8) Heptachlo...	7.092	7.749	9819511	16001586	53.315	53.188
9) trans-Chl...	7.187	7.887	9421264	15935433	50.956	50.859
10) cis-Chlor...	7.284	7.995	9592651	15376997	52.686	52.797
11) Endosulfa...	7.377	8.043	9890373	14459228	58.117	52.545
12) 4,4'-DDE	7.355	8.109	8424515	14197877	44.685m	45.700
13) Dieldrin	7.549	8.242	10372614	16784219	54.030	55.184
14) Endrin	7.712	8.467	8639461	12946330	58.761	57.329
15) 4,4'-DDD	7.774	8.523	6913689	11703881	43.997	45.680
16) Endosulfa...	7.867	8.614	7647069	12401526	53.248	53.778
17) 4,4'-DDT	7.969	8.745	6658843	10091676	55.694	53.356
18) Endrin Al...	8.156	8.851	6746794	10800438	54.880	54.708
19) Endosulfa...	8.454	9.041	7833553	12028583	50.546	48.291
20) Methoxychlor	8.310	9.226	3061541	4720596	52.268	52.399
21) Endrin Ke...	8.646	9.433	8949199	14280078	53.666	55.496
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.540	0.000	15234	0	0.086	N.D. #
25) Oxychlorane	7.028	7.665	49166	16060	0.299	0.059 #
26) 2,4'-DDE	7.092	7.887	9819511	15935433	76.559	75.118
27) trans-Non...	7.284	7.945	9592651	75735	53.258	0.251 #
28) 2,4'-DDD	0.000	8.242f	0	16784219	N.D.	88.870 #
29) 2,4'-DDT	7.655	8.467	33373	12946330	0.304	72.594 #
30) cis-Nonac...	7.774f	8.523	6913689	11703881	33.300	34.890
31) Mirex	8.401	9.433	48777	14280078	0.389	76.744 #
32) Chlordane...	0.000	7.945	0	75735	N.D.	2.093 #
33) Chlordane...	7.377f	8.043	9890373	14459228	394.600	476.195
34) Chlordane...	7.867	8.745f	7647069	10091676	1322.766	1125.565
35) Chlordane...	0.000	3.432f	0	4592	N.D.	NoCal
36) Toxaphene...	7.284f	0.000	9592651	0	10710.299	N.D. #
37) Toxaphene...	0.000	8.614f	0	12401526	N.D.	3768.287 #
38) Toxaphene...	0.000	8.670	0	94530	N.D.	18.651 #
39) Toxaphene...	8.156	8.745	6746794	10091676	2082.246	1208.608 #
40) Toxaphene...	8.401	8.934f	48777	288618	20.348	61.930 #
41) Toxaphene...	8.454	9.309f	7833553	41618	2475.382	8.761 #
42) Toxaphene...	0.000	3.432f	0	4592	N.D.	NoCal

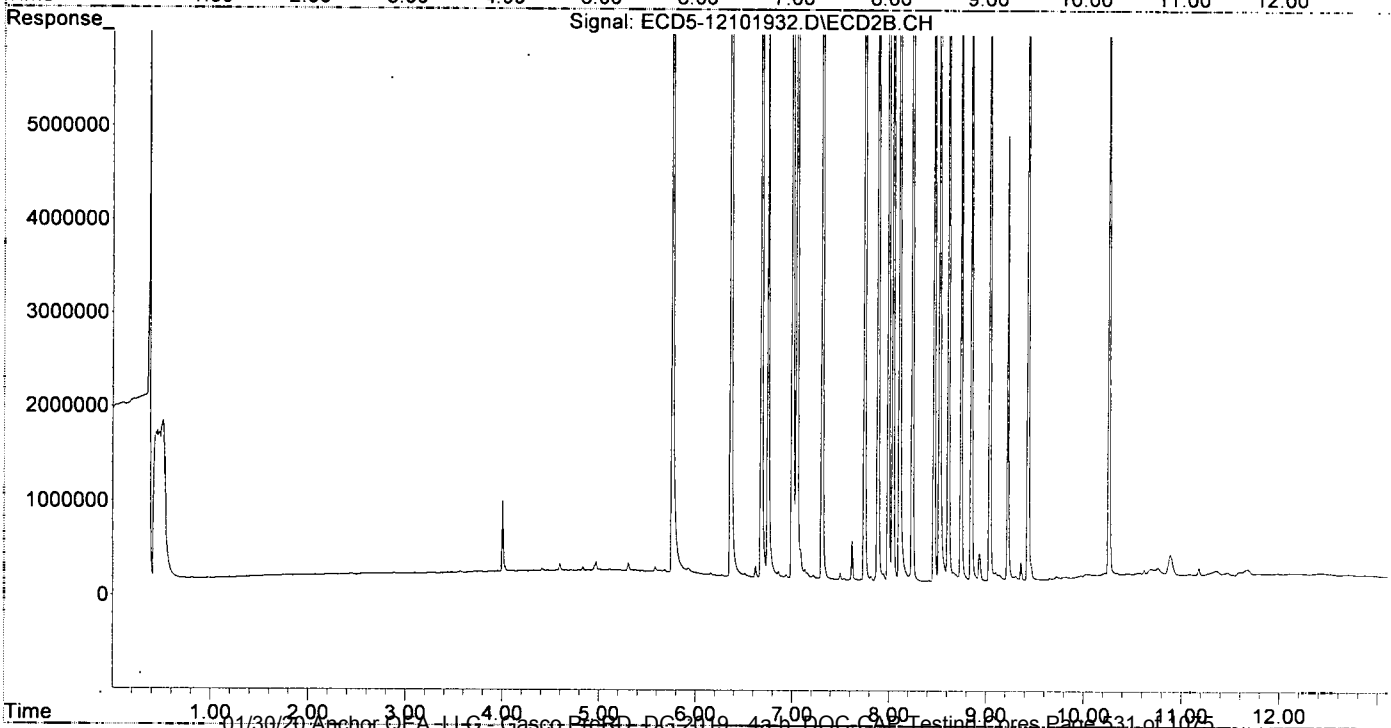
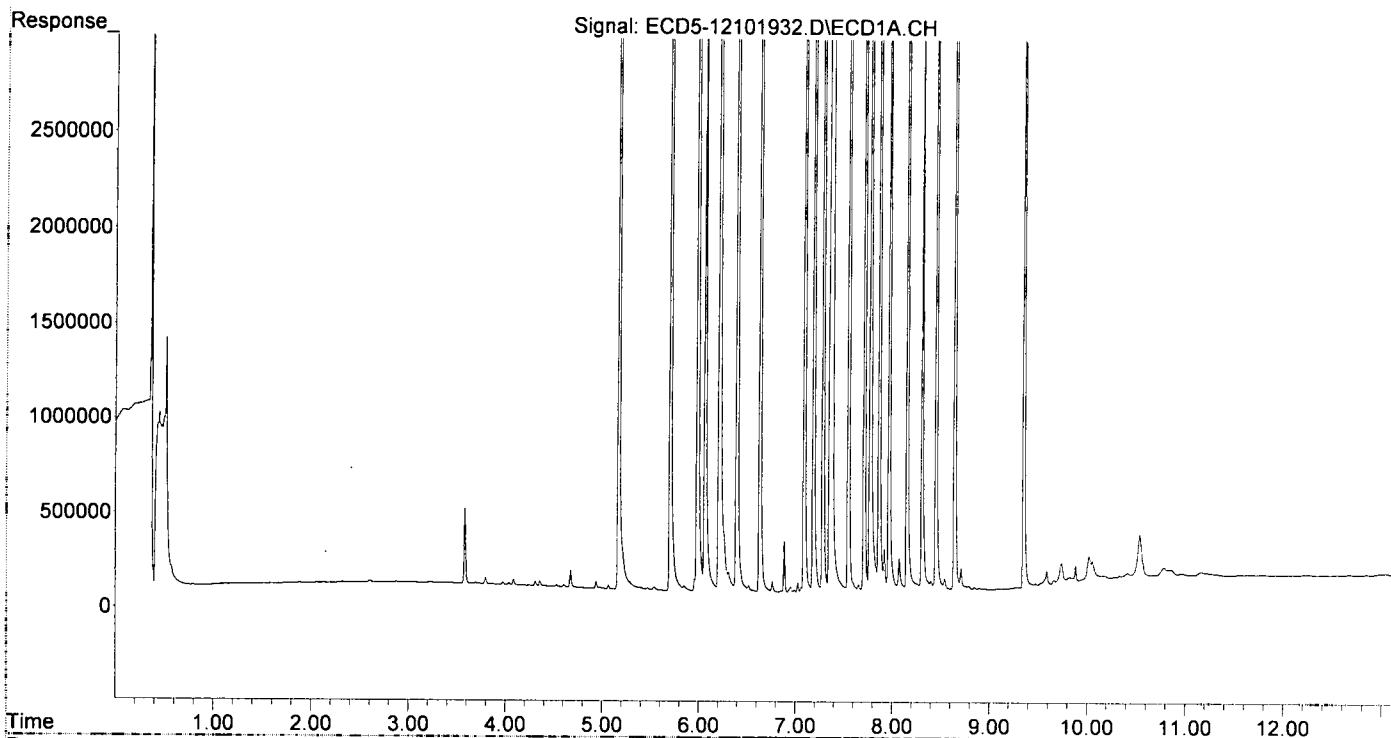
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101932.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 20:47  
Operator : MJB  
Sample : 9L10037-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

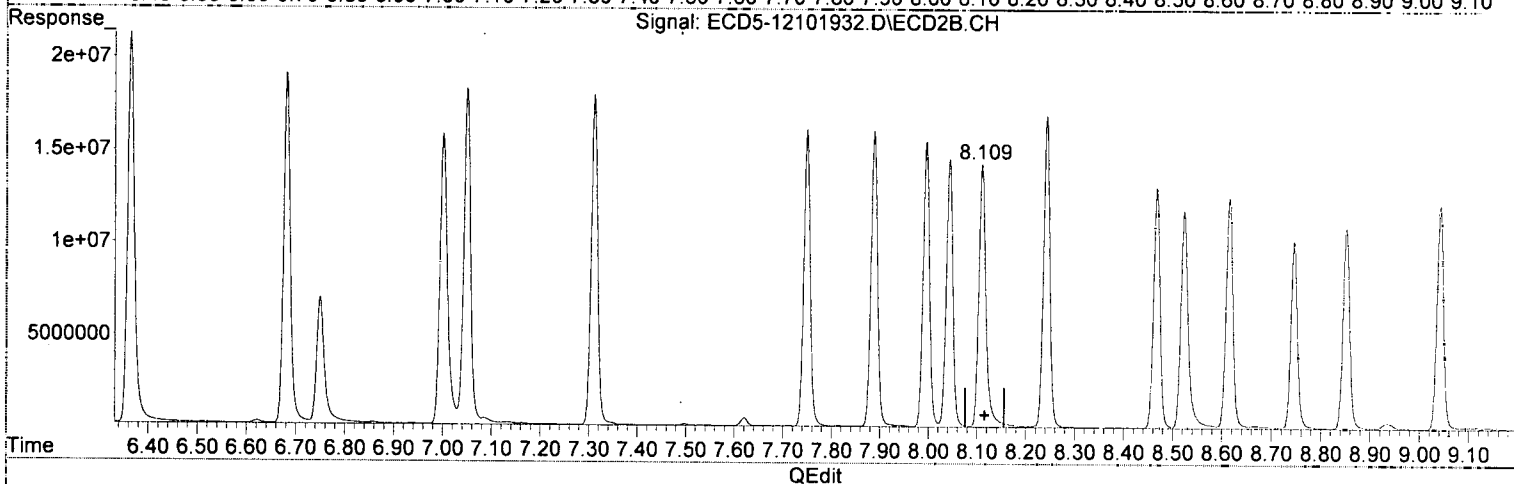
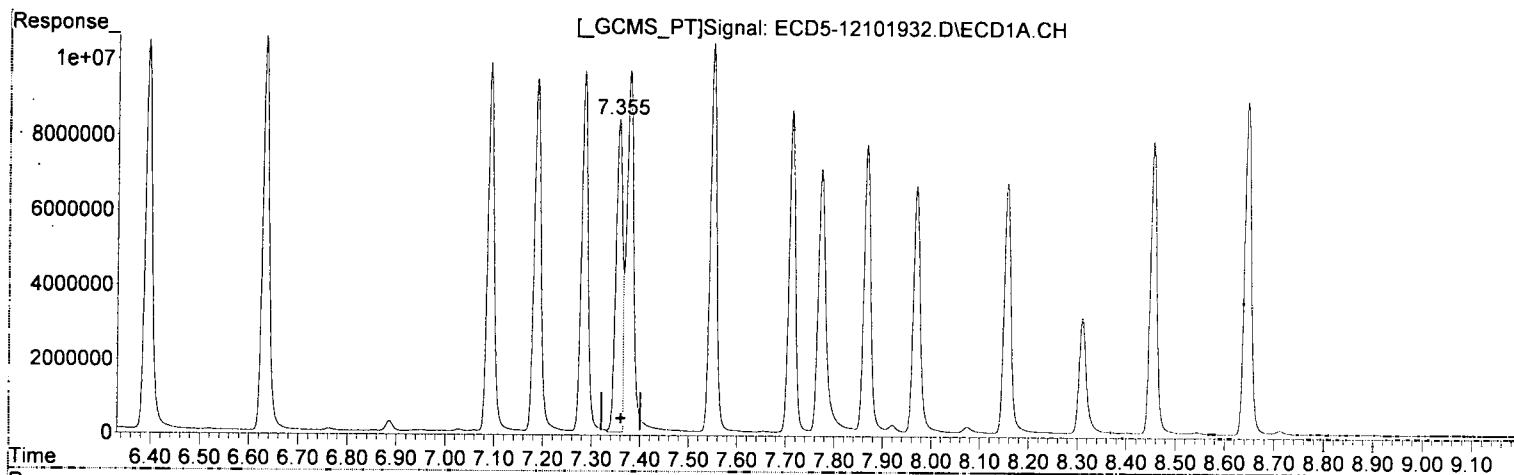
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 11 11:45:45 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101932.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 20:47  
Operator : MJB  
Sample : 9L10037-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 11 11:03:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.355min 44.685 ng/mL (m)  
response 8424515

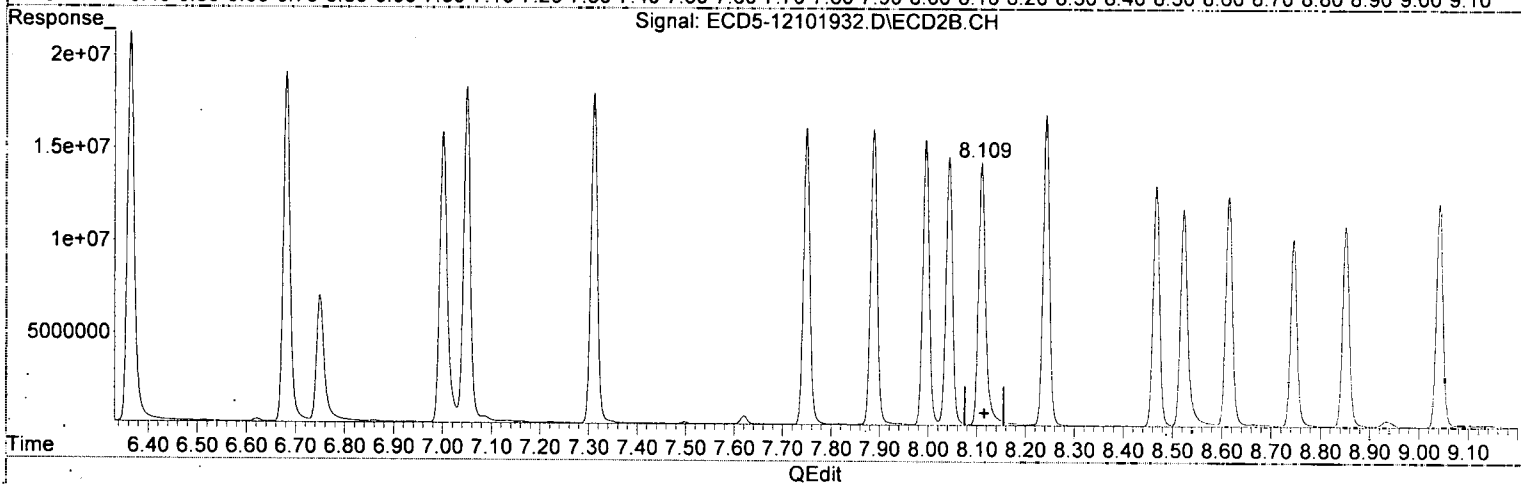
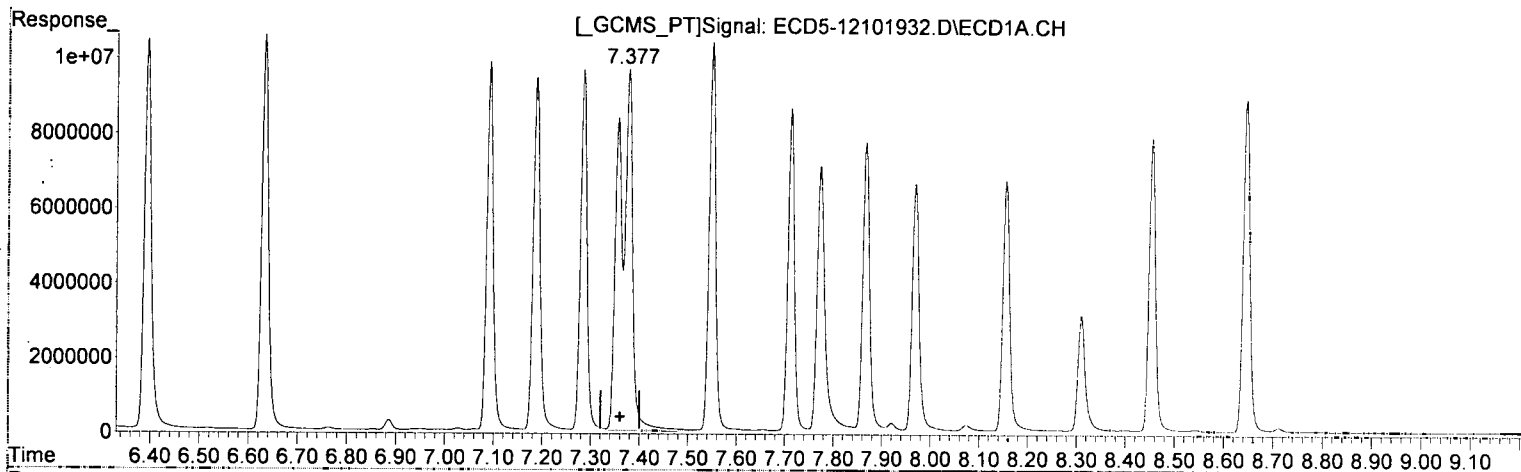
*MJB 12/11/19*

(12) 4,4'-DDE #2  
8.109min 45.700 ng/mL  
response 14197877

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101932.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 20:47  
Operator : MJB  
Sample : 9L10037-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 11 11:03:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.377min 52.461 ng/mL  
response 9890373

MJB 12/11/19

(12) 4,4'-DDE #2  
8.109min 45.700 ng/mL  
response 14197877

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101932.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 20:47  
 Operator : MJB  
 Sample : 9L10037-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 11 11:03:33 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

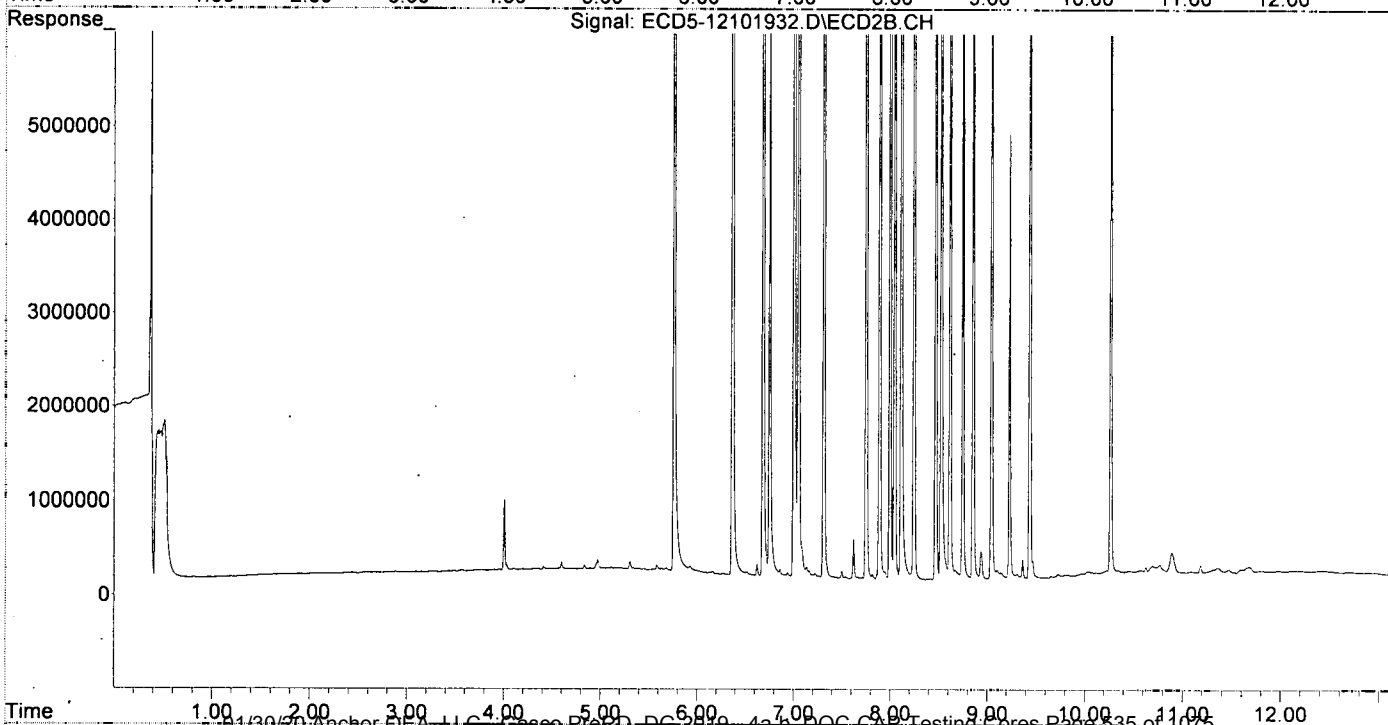
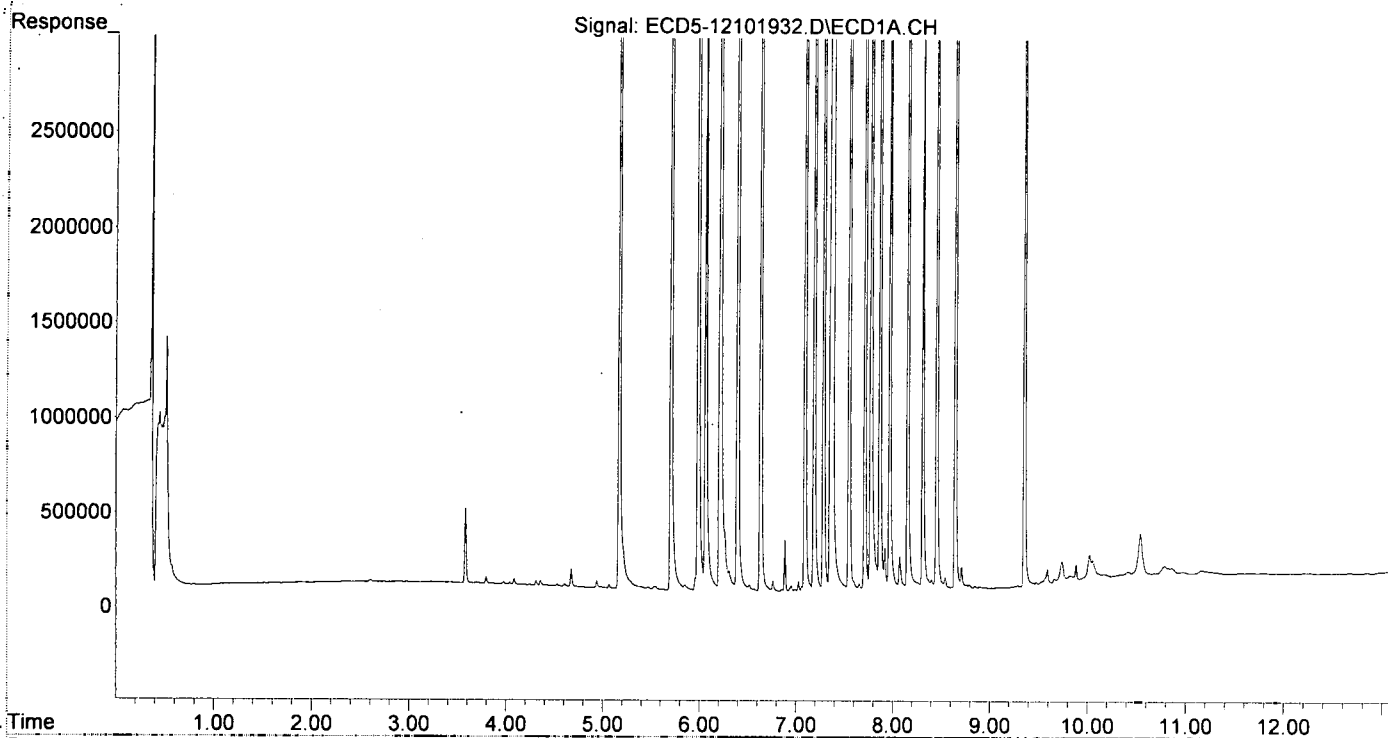
*ML*  
*MJB*  
*12/11/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.171	5.759	8343498	13336877	50.269	45.461
22) S DCBP (S)	9.355	10.262	6685732	9829533	47.383	54.680
Target Compounds						
2) a-BHC	5.705	6.364	12511890	21046353	54.559	51.290
3) g-BHC	5.986	6.681	10569711	18914140	52.383	53.025
4) b-BHC	6.064	6.749	3557120	6832829	39.356	43.173
5) Heptachlor	6.394	7.049	10246835	18105411	56.520	59.172
6) d-BHC	6.211	7.000	7833226	15698246	39.825	44.513
7) Aldrin	6.633	7.311	10450787	17796908	52.930	54.029
8) Heptachlo...	7.092	7.749	9819511	16001586	53.315	53.188
9) trans-Chl...	7.187	7.887	941264	15935433	50.956	50.859
10) cis-Chlor...	7.284	7.995	9592651	15376997	52.686	52.797
11) Endosulfa...	7.377	8.043	9890373	14459228	58.117	52.545
12) 4,4'-DDE	7.377	8.109	9890373	14197877	52.461	45.700
13) Dieldrin	7.549	8.242	10372614	16784219	54.030	55.184
14) Endrin	7.712	8.467	8639461	12946330	58.761	57.329
15) 4,4'-DDD	7.774	8.523	6913689	11703881	43.997	45.680
16) Endosulfa...	7.867	8.614	7647069	12401526	53.248	53.778
17) 4,4'-DDT	7.969	8.745	6658843	10091676	55.694	53.356
18) Endrin Al...	8.156	8.851	6746794	10800438	54.880	54.708
19) Endosulfa...	8.454	9.041	7833553	12028583	50.546	48.291
20) Methoxychlor	8.310	9.226	3061541	4720596	52.268	52.399
21) Endrin Ke...	8.646	9.433	8949199	14280078	53.666	55.496
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.540	0.000	15234	0	0.086	N.D. #
25) Oxychlorane	7.028	7.665	49166	16060	0.299	0.059 #
26) 2,4'-DDE	7.092	7.887	9819511	15935433	76.559	75.118
27) trans-Non...	7.284	7.945	9592651	75735	53.258	0.251 #
28) 2,4'-DDD	0.000	8.242f	0	16784219	N.D.	88.870 #
29) 2,4'-DDT	7.655	8.467	33373	12946330	0.304	72.594 #
30) cis-Nonac...	7.774f	8.523	6913689	11703881	33.300	34.890
31) Mirex	8.401	9.433	48777	14280078	0.389	76.744 #
32) Chlordane...	0.000	7.945	0	75735	N.D.	2.093 #
33) Chlordane...	7.377f	8.043	9890373	14459228	394.600	476.195
34) Chlordane...	7.867	8.745f	7647069	10091676	1322.766	1125.565
35) Chlordane...	0.000	3.432f	0	4592	N.D.	NoCal
36) Toxaphene...	7.284f	0.000	9592651	0	10710.299	N.D. #
37) Toxaphene...	0.000	8.614f	0	12401526	N.D.	3768.287 #
38) Toxaphene...	0.000	8.670	0	94530	N.D.	18.651 #
39) Toxaphene...	8.156	8.745	6746794	10091676	2082.246	1208.608 #
40) Toxaphene...	8.401	8.934f	48777	288618	20.348	61.930 #
41) Toxaphene...	8.454	9.309f	7833553	41618	2475.382	8.761 #
42) Toxaphene...	0.000	3.432f	0	4592	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101932.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 20:47  
Operator : MJB  
Sample : 9L10037-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 11 11:03:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101933.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 21:04  
 Operator : MJB  
 Sample : 9L10037-CCV6  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 11 11:03:40 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/11/19

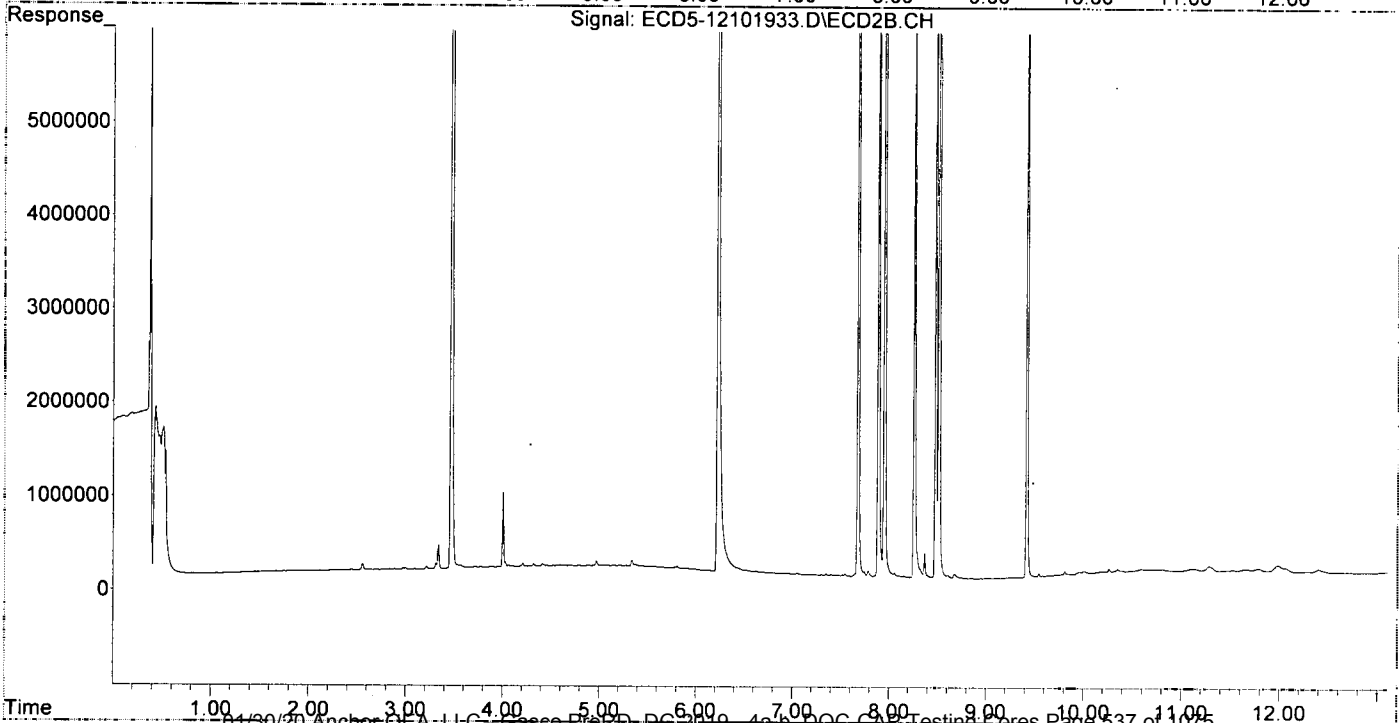
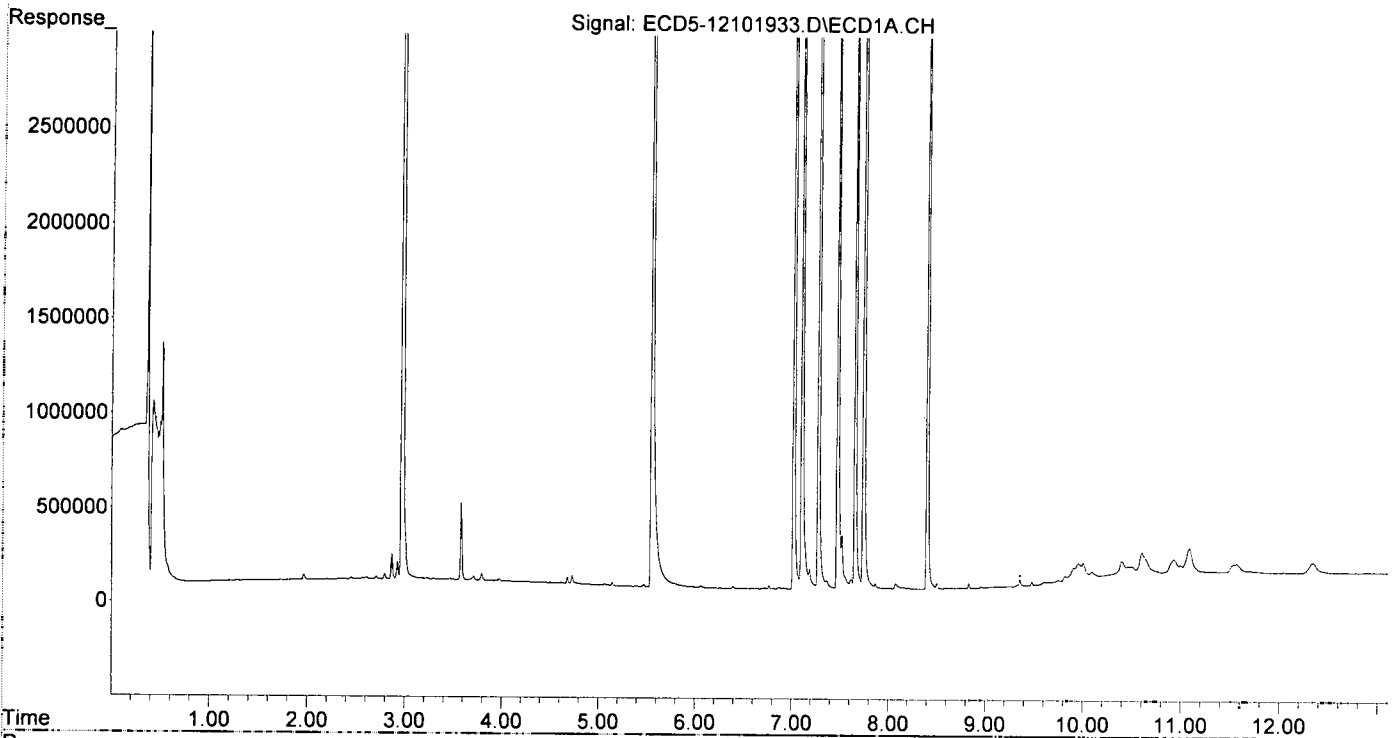
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
System Monitoring Compounds							
1) S TCMX (S)	5.145f	0.000	17173	0	0.103	N.D.	#
22) S DCBP (S)	9.357	10.262	36319	36193	0.257	0.201	
Target Compounds							
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.	
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.	
4) b-BHC	6.061	0.000	10606	0	0.117	N.D.	#
5) Heptachlor	6.395	7.050	12436	15122	0.069	0.049	
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.	
7) Aldrin	0.000	7.348f	0	17664	N.D.	0.054	#
8) Heptachlo...	7.105	7.746	5518018	49662	29.960	0.165	#
9) trans-Chl...	7.186	7.888	108058	9606397	0.584	30.659	#
10) cis-Chlor...	7.278	0.000	9290305	0	51.026	N.D.	#
11) Endosulfa...	7.363f	8.059	45008	43416	0.264	0.158	#
12) 4,4'-DDE	7.363	8.154f	45008	12962	0.239	0.042	#
13) Dieldrin	7.520f	8.258	290549	7959490	1.513	26.170	#
14) Endrin	7.745f	8.479	10553507	8987226	71.779	39.797	#
15) 4,4'-DDD	7.745f	8.514	10553507	17148543	67.160	66.931	
16) Endosulfa...	7.867	8.606	25203	26160	0.175	0.113	
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.	
18) Endrin Al...	8.164	0.000	8045	0	BelowCal	N.D.	
19) Endosulfa...	0.000	9.042	0	4267	N.D.	0.017	#
20) Methoxychlor	0.000	9.217	0	1316	N.D.	BelowCal	
21) Endrin Ke...	8.649	9.419f	4779	9045945	0.029	35.155	#
23) Hexachlor...	2.972	3.469	10299214	22101125	56.360	58.790	
24) Hexachlor...	5.551	6.225	8908584	14148174	50.533	45.045	
25) Oxychlordane	7.022	7.679	8074652	13814775	49.075	50.437	
26) 2,4'-DDE	7.105	7.888	5518018	9606397	43.022	45.284	
27) trans-Non...	7.278	7.952	9290305	15315335	51.568	50.774	
28) 2,4'-DDD	7.475	8.258	4988757	7959490	43.713	42.144	
29) 2,4'-DDT	7.656	8.479	5721974	8987226	52.166	50.394	
30) cis-Nonac...	7.745	8.514	10553507	17148543	50.832	51.121	
31) Mirex	8.403	9.419	6205151	9045945	49.496	48.615	
32) Chlordane...	7.278f	7.952	9290305	15315335	471.838	423.256	
33) Chlordane...	7.363f	8.059	45008	43416	1.796	1.430	
34) Chlordane...	7.867	0.000	25203	0	4.360	N.D.	#
35) Chlordane...	3.468	3.469	15182	22101125	NoCal	NoCal	
36) Toxaphene...	0.000	8.258f	0	7959490	N.D.	3033.044	#
37) Toxaphene...	7.617	8.606f	48205	26160	29.849	7.949	#
38) Toxaphene...	0.000	8.676	0	38987	N.D.	7.692	#
39) Toxaphene...	8.164	0.000	8045	0	2.483	N.D.	#
40) Toxaphene...	8.403	0.000	6205151	0	2588.562	N.D.	#
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	
42) Toxaphene...	3.468	3.469	15182	22101125	NoCal	NoCal	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101933.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 21:04  
Operator : MJB  
Sample : 9L10037-CCV6  
Misc : A19J408, 9-42 50 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 11 11:24:04 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
 Data File : ECD5-12101934.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Dec 2019 21:21  
 Operator : MJB  
 Sample : 9L10037-CCB3  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 11 11:24:10 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/11/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.170	5.759	17659758	29691730	106.400	101.210
22) S DCBP (S)	9.355	10.261	14294921	21185822	101.312	117.854
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	0.000	0	0	N.D.	N.D.
4) b-BHC	6.059	0.000	8357	0	0.092	N.D. #
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.634	7.346f	5480	79891	0.028	0.243 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.178	7.927f	52974	10977	0.287	0.035 #
10) cis-Chlor...	7.284	0.000	8427	0	0.046	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	7.334f	0.000	5061	0	0.027	N.D. #
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.865	8.605	12893	15359	0.090	0.067
17) 4,4'-DDT	0.000	8.761	0	6665	N.D.	0.001 #
18) Endrin Al...	8.156	0.000	6910	0	BelowCal	N.D.
19) Endosulfa...	0.000	9.039	0	6127	N.D.	0.025 #
20) Methoxychlor	8.305	9.223	4767	3104	0.081	BelowCal #
21) Endrin Ke...	0.000	9.452	0	19600	N.D.	0.076 #
23) Hexachlor...	0.000	3.494f	0	7315	N.D.	0.019 #
24) Hexachlor...	5.549	0.000	25602	0	0.145	N.D. #
25) Oxychlorthane	7.023	7.646f	10726	16719	0.065	0.061
26) 2,4'-DDE	0.000	7.927f	0	10977	N.D.	0.052 #
27) trans-Non...	7.284	7.927f	8427	10977	87346.653	0.036 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.665	0.000	3503	0	0.032	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.413	9.452f	10588	19600	0.084	0.105
32) Chlordane...	7.284f	7.927f	8427	10977	0.428	0.303
33) Chlordane...	7.334	0.000	5061	0	0.202	N.D. #
34) Chlordane...	7.865	0.000	12893	0	2.230	N.D. #
35) Chlordane...	0.000	3.434	0	10004	N.D.	NoCal
36) Toxaphene...	7.334	0.000	5061	0	5.650	N.D. #
37) Toxaphene...	0.000	8.605f	0	15359	N.D.	4.667 #
38) Toxaphene...	0.000	8.675	0	48542	N.D.	9.578 #
39) Toxaphene...	8.156	8.761f	6910	6665	2.133	0.798 #
40) Toxaphene...	8.413f	0.000	10588	0	4.417	N.D. #
41) Toxaphene...	8.413f	9.292	10588	14436	3.346	3.039
42) Toxaphene...	0.000	3.434f	0	10004	N.D.	NoCal

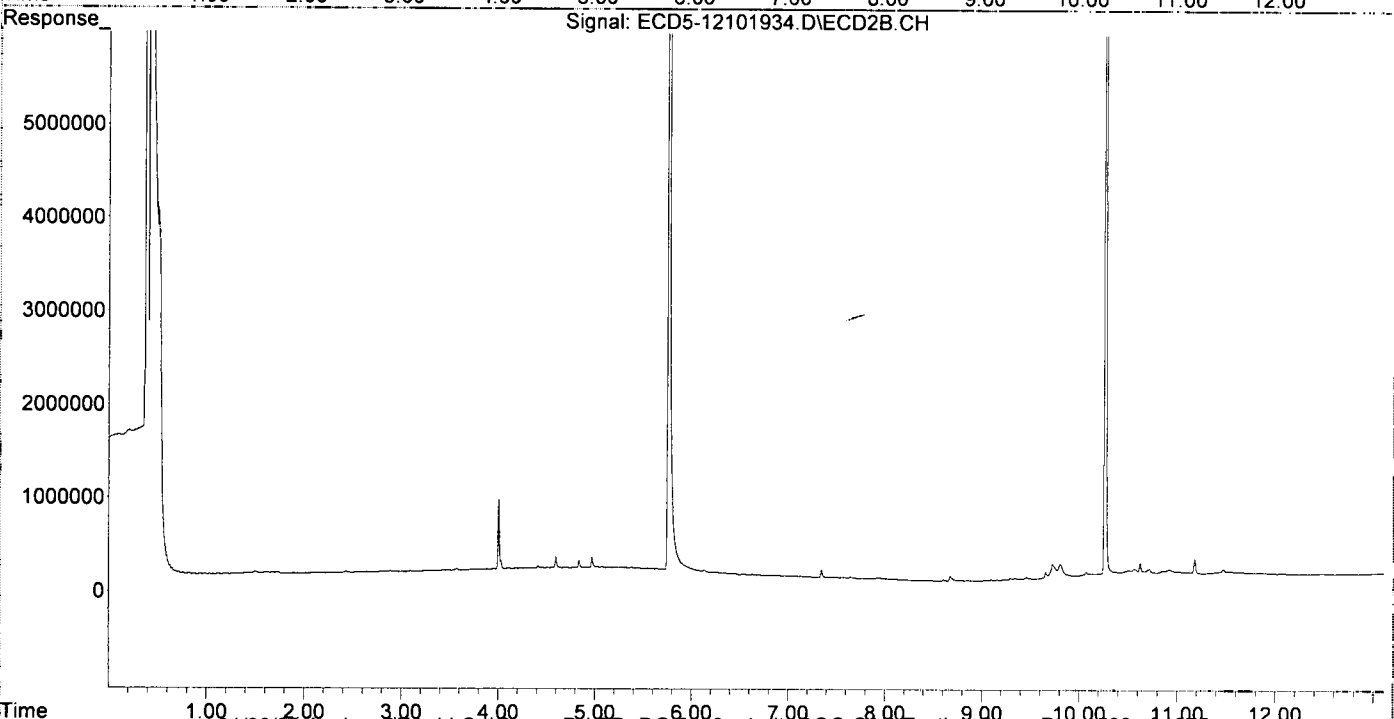
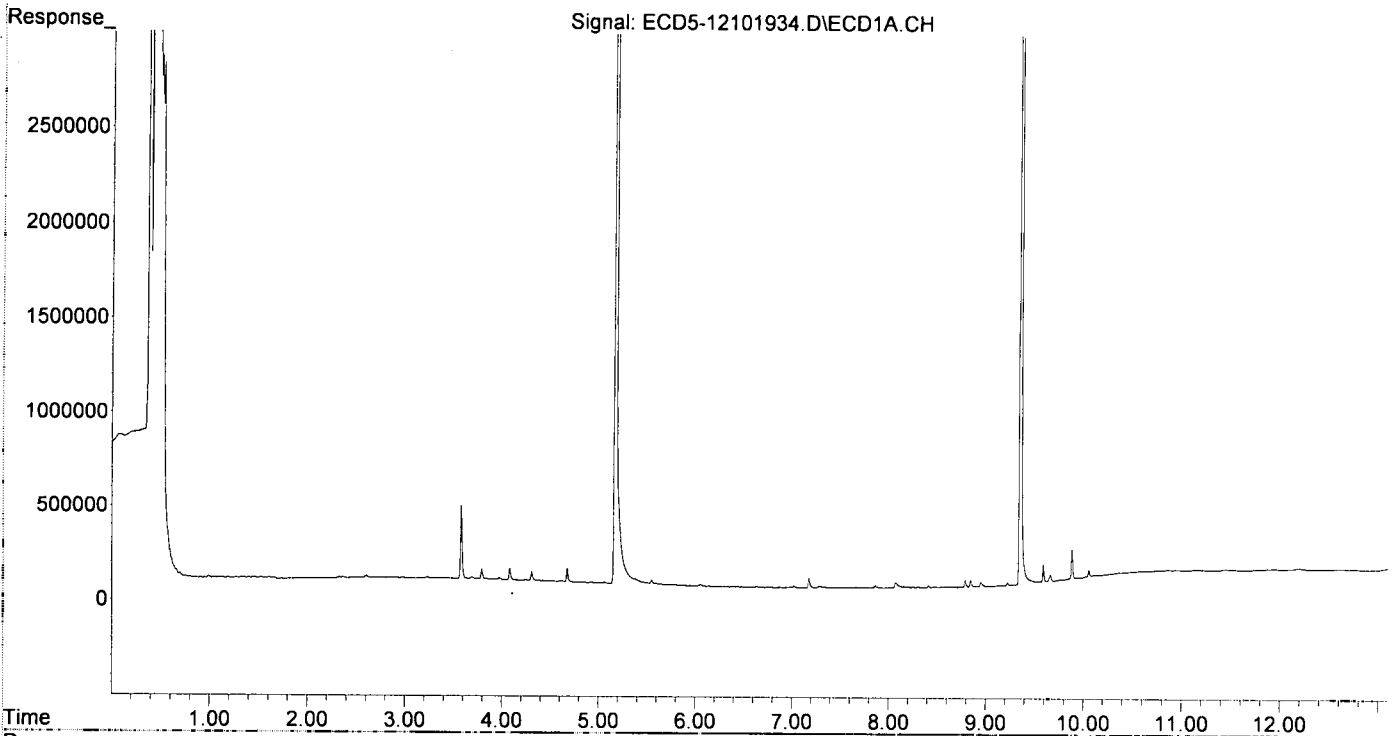
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L10037\  
Data File : ECD5-12101934.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Dec 2019 21:21  
Operator : MJB  
Sample : 9L10037-CCB3  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 11 11:24:10 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B  
Benchsheet & Analysis Sequence Data**

Batch 9120780  
Sequence 9L13033 (A9I0890-17RE1,18RE1)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120780 (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	8	>11	
	9120780-BLK1	QC	12/05/19 08:35	11	10				100						
	9120780-BS1	QC	12/05/19 08:35	10	10	A19I221		100	100						
	A9I0890-17RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.2	10				100	PDI-018SC-A-06-07-190926	MS/MSD, MDL. Use Custom Spike.				
	9120780-MS1	QC	12/05/19 08:35	10.25	10	A19I221	A9I0890-17RE1	100	100						
	9120780-MSD1	QC	12/05/19 08:36	10.18	10	A19I221	A9I0890-17RE1	100	100						
	A9I0890-18RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.74	10				100	PDI-018SC-A-07-08-190926	MDL. Use Custom Spike.				
	A9J0033-50RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.26	10				100	PDI-064SC-A-00-01-190929	MDL. Use Custom Spike.				
	A9J0033-51RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.19	10				100	PDI-064SC-A-01-02-190929	MDL. Use Custom Spike.				
	A9J0095-02RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.05	10				100	PDI-046SC-A-01-02-191001	MDL. Use Custom Spike.				
	A9J0095-03RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.32	10				100	PDI-046SC-A-02-03-191001	MDL. Use Custom Spike.				
	A9J0095-14RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.07	10				100	PDI-047SC-A-01-02-191001	MDL. Use Custom Spike.				
	A9J0095-15RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.29	10				100	PDI-047SC-A-02-03-191001	MDL. Use Custom Spike.				
	A9J0095-32RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.79	10				100	PDI-071SC-A-08-09-191001	MDL. Use Custom Spike.				
	A9J0095-33RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.61	10				100	PDI-071SC-A-09-10-191001	MDL. Use Custom Spike.				
	A9J0096-23RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.75	10				100	PDI-042SC-A-01-02-190930	MDL. Use Custom Spike.				
	A9J0096-24RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.48	10				100	PDI-042SC-A-02-03-190930	MDL. Use Custom Spike.				
	A9J0096-24RE2	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.48	10				100	PDI-042SC-A-02-03-190930	Added 12/16/2019 By MJB				
	A9J0096-34RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.45	10				100	PDI-044SC-A-00-01-190930	MDL. Use Custom Spike.				
	A9J0096-34RE2	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.45	10				100	PDI-044SC-A-00-01-190930	Added 12/16/2019 By MJB				
	A9J0096-35RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.15	10				100	PDI-044SC-A-01-02-190930	MDL. Use Custom Spike.				

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

MJB  
Reviewed By: \_\_\_\_\_ Date: 12/23/19

# Apex Laboratories

## PREPARATION BENCH SHEET

**BATCH #: 9120780 (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	3-8	>11
	A9J0353-41RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.47	10				100	PDI-043SC-A-02-03-191008	MDL. Use Custom Spike.			
	A9J0353-42RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.05	10				100	PDI-043SC-A-03-04-191008	MDL. Use Custom Spike.			
	A9J0353-42RE2	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.05	10				100	PDI-043SC-A-03-04-191008	Added 12/16/2019 By MJB			
	A9J0463-39RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.46	10				100	PDI-045SC-A-02-03-191010	MDL. Use Custom Spike.			
	A9J0463-40RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.5	10				100	PDI-045SC-A-03-04-191010	MDL. Use Custom Spike.			
	A9J0463-57RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.14	10				100	PDI-067SC-A-04-05-191010	MDL. Use Custom Spike.			
	A9J0463-58RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.19	10				100	PDI-067SC-A-05-06-191010	MDL. Use Custom Spike.			

### Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A19I263	03/18/20	DCM CHEM PROD. 194934						

From 9120542 on 12/11/2019 by jgc

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120780 (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	In / Out		pH		
											Extraction	Comments	<2	2-11	>11
2	9120780-BLK1	QC	12/05/19 08:35	11	5.10				100		1ml	2ml			
3	9120780-BS1	QC	12/05/19 08:35	10	5.10	A191221		100	100		1ml	2ml			
4	A910890-17RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.2	5.10				100	PDI-018SC-A-06-07-190926	MS/MSD, MDL. Use Custom Spike.	1ml	2ml		
5	9120780-MS1	QC	12/05/19 08:35	10.25	5.10	A191221	A910890-17RE1	100	100			1ml	2ml		
6	9120780-MSD1	QC	12/05/19 08:36	10.18	5.10	A191221	A910890-17RE1	100	100			1ml	2ml		
7	A910890-18RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.74	5.10				100	PDI-018SC-A-07-08-190926	MDL. Use Custom Spike.	1ml	2ml		
8	A9J0033-50RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.26	5.10				100	PDI-064SC-A-00-01-190929	MDL. Use Custom Spike.	1ml	2ml		
9	A9J0033-51RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.19	5.10				100	PDI-064SC-A-01-02-190929	MDL. Use Custom Spike.	1ml	2ml		
10	A9J0095-02RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.05	5.10				100	PDI-046SC-A-01-02-191001	MDL. Use Custom Spike.	1ml	2ml		
11	A9J0095-03RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.32	5.10				100	PDI-046SC-A-02-03-191001	MDL. Use Custom Spike.	1ml	2ml		
12	A9J0095-14RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.07	5.10				100	PDI-047SC-A-01-02-191001	MDL. Use Custom Spike.	1ml	2ml		
13	A9J0095-15RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.29	5.10				100	PDI-047SC-A-02-03-191001	MDL. Use Custom Spike.	1ml	2ml		
14	A9J0095-32RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.79	5.10				100	PDI-071SC-A-08-09-191001	MDL. Use Custom Spike.	1ml	2ml		
15	A9J0095-33RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.61	5.10				100	PDI-071SC-A-09-10-191001	MDL. Use Custom Spike.	1ml	2ml		
16	A9J0096-23RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.75	5.10				100	PDI-042SC-A-01-02-190930	MDL. Use Custom Spike.	1ml	2ml		
17	A9J0096-24RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.48	5.10				100	PDI-042SC-A-02-03-190930	MDL. Use Custom Spike.	1ml	2ml		
18	A9J0096-34RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.45	5.10				100	PDI-044SC-A-00-01-190930	MDL. Use Custom Spike.	1ml	2ml		
19	A9J0096-35RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.15	5.10				100	PDI-044SC-A-01-02-190930	MDL. Use Custom Spike.	1ml	2ml		
20	A9J0353-41RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.47	5.10				100	PDI-043SC-A-02-03-191008	MDL. Use Custom Spike.	1ml	2ml		
21	A9J0353-42RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.05	5.10				100	PDI-043SC-A-03-04-191008	MDL. Use Custom Spike.	1ml	2ml		

Prepared By: ACF Date: 12/11/19  
VAG Date: 12/12/19  
am Date: 12-12-19

Reviewed By: CAM Date: 12/12/19

# Apex Laboratories

## PREPARATION BENCH SHEET

BATCH #: 9120780 (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	6-9	>11	
22	A9J0463-39RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.46	<del>8</del> 10				100	PDI-045SC-A-02-03-191010	MDL. Use Custom Spike. <i>1ml</i>	<i>2 ml</i>			
23	A9J0463-40RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.5	<del>8</del> 10				100	PDI-045SC-A-03-04-191010	MDL. Use Custom Spike. <i>1ml</i>	<i>2 ml</i>			
24	A9J0463-57RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.14	<del>8</del> 10				100	PDI-067SC-A-04-05-191010	MDL. Use Custom Spike. <i>1ml</i>	<i>2 ml</i>			
25	A9J0463-58RE1	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.19	<del>8</del> 10				100	PDI-067SC-A-05-06-191010	MDL. Use Custom Spike. <i>1ml</i>	<i>2 ml</i>			

In | Out

### Standards/Reagents

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19H411	08/31/21	n-Hexane Lot# 192712	A19I221	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A19I263	03/18/20	DCM CHEM PROD. 194934						

From 9120542 on 12/11/2019 by jgc

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: **9120542 (Soil)** *Sediment*  
Prep Method: EPA 3546 *12/11/19*

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	6-10	>11
	9120542-BLKI	QC	12/05/19 08:35	10.00	5				100					
	9120542-BS1	QC	12/05/19 08:35	10	5	A191221		100	100					
	A910890-17	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.30	5				100	PDI-018SC-A-06-07-190926	MS/MSD, MDL. Use Custom Spike. <i>mud</i>			
	9120542-MS1	QC	12/05/19 08:35	10.05	5	A191221	A910890-17	100	100		<i>mud</i>			
	9120542-MSD1	QC	12/05/19 08:36	10.18	5	A191221	A910890-17	100	100		<i>mud</i>			
	A910890-18	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.24	5				100	PDI-018SC-A-07-08-190926	MDL. Use Custom Spike. <i>mud</i>			
	A9J0033-50	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.26	5				100	PDI-064SC-A-00-01-190929	MDL. Use Custom Spike. <i>mud</i>			
	A9J0033-51	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.19	5				100	PDI-064SC-A-01-02-190929	MDL. Use Custom Spike. <i>mud</i>			
	A9J0095-02	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.15	5				100	PDI-046SC-A-01-02-191001	MDL. Use Custom Spike. <i>sand</i>			
	A9J0095-03	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.32	5				100	PDI-046SC-A-02-03-191001	MDL. Use Custom Spike. <i>sand</i>			
	A9J0095-14	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.07	5				100	PDI-047SC-A-01-02-191001	MDL. Use Custom Spike. <i>sand</i>			
	A9J0095-15	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.29	5				100	PDI-047SC-A-02-03-191001	MDL. Use Custom Spike. <i>sand</i>			
	A9J0095-32	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.29	5				100	PDI-071SC-A-08-09-191001	MDL. Use Custom Spike. <i>mud, rocks</i>			
	A9J0095-33	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.61	5				100	PDI-071SC-A-09-10-191001	MDL. Use Custom Spike. <i>mud</i>			
	A9J0096-23	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.75	5				100	PDI-042SC-A-01-02-190930	MDL. Use Custom Spike. <i>sand</i>			
	A9J0096-24	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.48	5				100	PDI-042SC-A-02-03-190930	MDL. Use Custom Spike. <i>sand</i>			
	A9J0096-34	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.45	5				100	PDI-044SC-A-00-01-190930	MDL. Use Custom Spike. <i>mud, rocks</i>			
	A9J0096-35	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.15	5				100	PDI-044SC-A-01-02-190930	MDL. Use Custom Spike. <i>sand</i>			
	A9J0353-41	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.47	5				100	PDI-043SC-A-02-03-191008	MDL. Use Custom Spike. <i>sand</i>			
	A9J0353-42	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10.05	5				100	PDI-043SC-A-03-04-191008	MDL. Use Custom Spike. <i>sand</i>			

Prepared By: JAG *12/5/19*  
Date: 12/5/19

Reviewed By: CAH *12/5/19*  
Date: 12/5/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9120542 (Soil)

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	6-10	>11
	A9J0463-39	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10 10.46	5 ✓				100	PDI-045SC-A-02-03-191010	MDL Use Custom Spike. mud odor			
	A9J0463-40	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10 10.50	5 ✓				100	PDI-045SC-A-03-04-191010	MDL Use Custom Spike. mud odor			
	A9J0463-57	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10 10.14	5 ✓				100	PDI-067SC-A-04-05-191010	MDL Use Custom Spike. mud odor			
	A9J0463-58	A 8081B 2,4+4,4-DDx Only (+Add)	12/05/19 08:35	10 10.19	5 ✓				100	PDI-067SC-A-05-06-191010	MDL Use Custom Spike. mud odor			

**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	A19I22J	03/18/20	2,4 + 4,4 DDx Pesticide Matrix Spike	A19K319	05/07/20	8082 PCB Surrogate Spike
A18K311	12/31/20	Glass Wool	JAG			JAG		
A19I263	03/18/20	DCM CHEM PROD. 194934						
A19K010	10/29/25	Sodium Sulfate Lot # 188777						

3 - stained TurboVap

Method 3546 digestion time and temperature achieved.

Initial: JAG

Witness: NOG 12/5/19

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

NOG 12/5/19





# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L13033**  
Date: **12/13/19 11:07**

Instrument: **DUALECD5**  
Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L13033-BKD1	Sediment	QC	QC				A19J201
2	9L13033-CCV1	Sediment	QC	QC				A19K133
3	9L13033-CCV2	Sediment	QC	QC				A19J408
4	9L13033-CCB1	Sediment	QC	QC				A19L018
5	A9I0890-17RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
6	9L13033-IBL1	Sediment	QC	QC				
7	9120780-MS1	Sediment	QC	QC		9120780		
8	9L13033-IBL2	Sediment	QC	QC				
9	9120780-MSD1	Sediment	QC	QC		9120780		
10	9L13033-IBL3	Sediment	QC	QC				
11	A9I0890-18RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
12	9L13033-IBL4	Sediment	QC	QC				
13	A9J0033-50RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
14	9L13033-IBL5	Sediment	QC	QC				
15	A9J0033-51RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
16	9L13033-IBL6	Sediment	QC	QC				
17	A9J0095-32RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
18	9L13033-IBL7	Sediment	QC	QC				
19	9120734-BLK1	Sediment	QC	QC		9120734		
20	9120734-BS1	Sediment	QC	QC		9120734		
21	A9J0553-37RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
22	9L13033-CCV3	Sediment	QC	QC				A19K134
23	9L13033-CCV4	Sediment	QC	QC				A19J409
24	9L13033-CCB2	Sediment	QC	QC				A19L018
25	A9J0096-24RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
26	A9J0353-42RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
27	A9J0553-36RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
28	A9J0558-38RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
29	9L13033-IBL8	Sediment	QC	QC				
30	A9J0594-16RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
31	9L13033-IBL9	Sediment	QC	QC				
32	A9J0594-17RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120734		
33	9L13033-IBLA	Sediment	QC	QC				
34	A9J0096-34RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
35	9L13033-IBLB	Sediment	QC	QC				
36	9L13033-CCV5	Sediment	QC	QC				A19K133
37	9L13033-CCV6	Sediment	QC	QC				A19J408
38	9L13033-CCB3	Sediment	QC	QC				A19L018
39	9L13033-IBLC	Sediment	QC	QC				
40	9L13033-IBLD	Sediment	QC	QC				

Data Entered By: WB 12/16/19

Comments:

*Batch QC & CCV failures.*

Data Reviewed By: MVA 12/17/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L13033\  
 Data File : ECD5-12131903.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 11:55  
 Operator : MJB  
 Sample : 9L13033-BKD1  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 12:08:38 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RTA.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.342	795626	NoCal	ng/mL
2) Endrin	7.697	87530117	NoCal	ng/mL
3) 4,4'-DDD	7.759	10422686	NoCal	ng/mL
4) 4,4'-DDT	7.955	138451404	NoCal	ng/mL
5) Endrin Aldehyde	8.139	1201051	NoCal	ng/mL
6) Endrin Ketone	8.629	4645539	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.094	1488709	NoCal	ng/mL
9) Endrin [2C]	8.449	128327421	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.506	17644422	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.833	1789062	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.729	186072929	NoCal	ng/mL
13) Endrin Ketone [2C]	9.415	6395647	NoCal	ng/mL
-----				

(f)=RT Delta > 1/2 Window

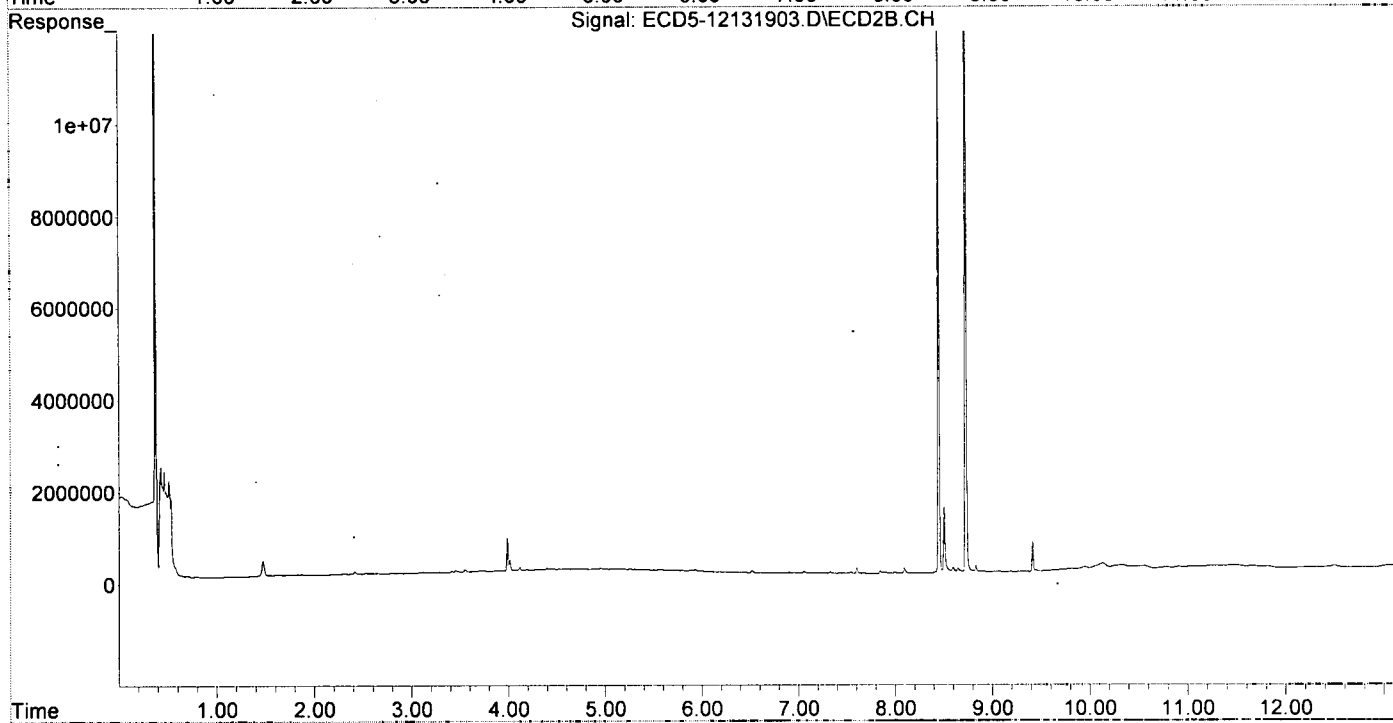
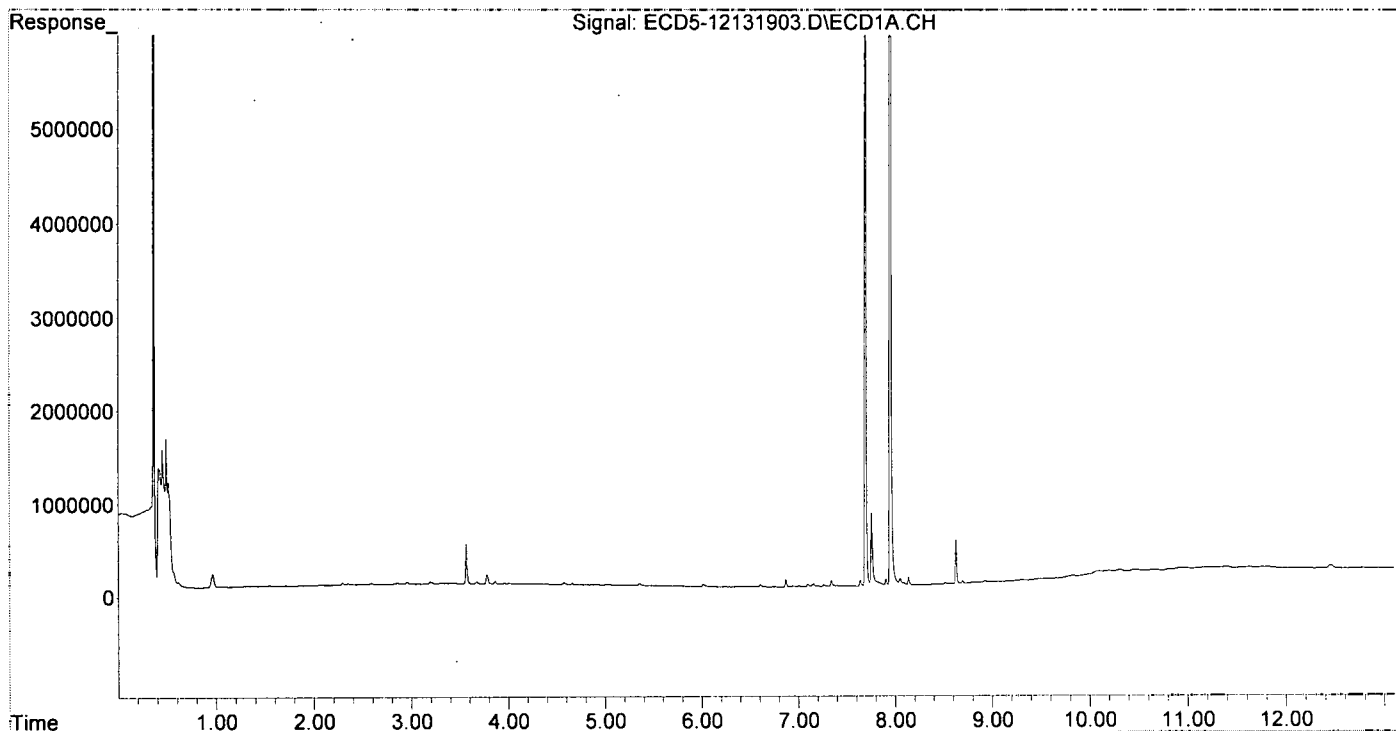
(m)=manual int.

MJB  
12/13/19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L13033\  
Data File : ECD5-12131903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 11:55  
Operator : MJB  
Sample : 9L13033-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 12:08:38 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RTA.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 12:12  
 Operator : MJB  
 Sample : 9L13033-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:13:54 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/13/19

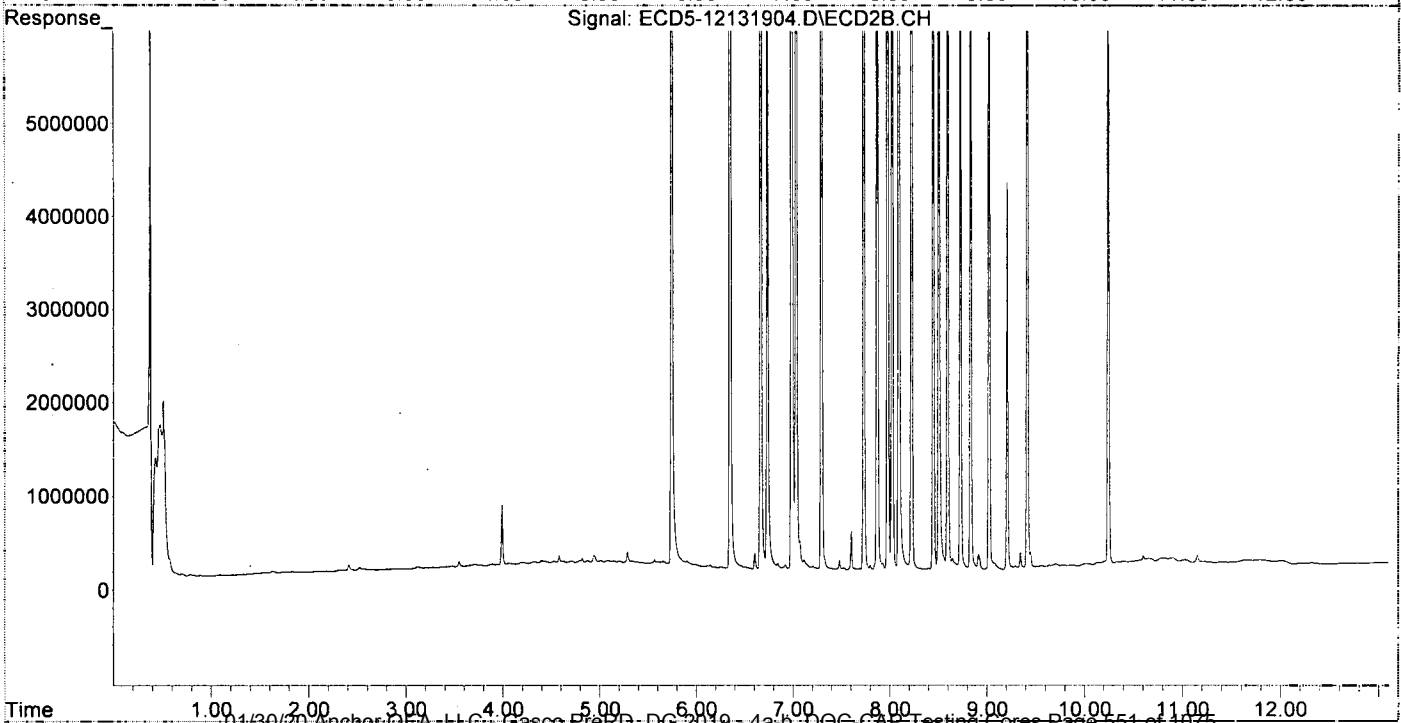
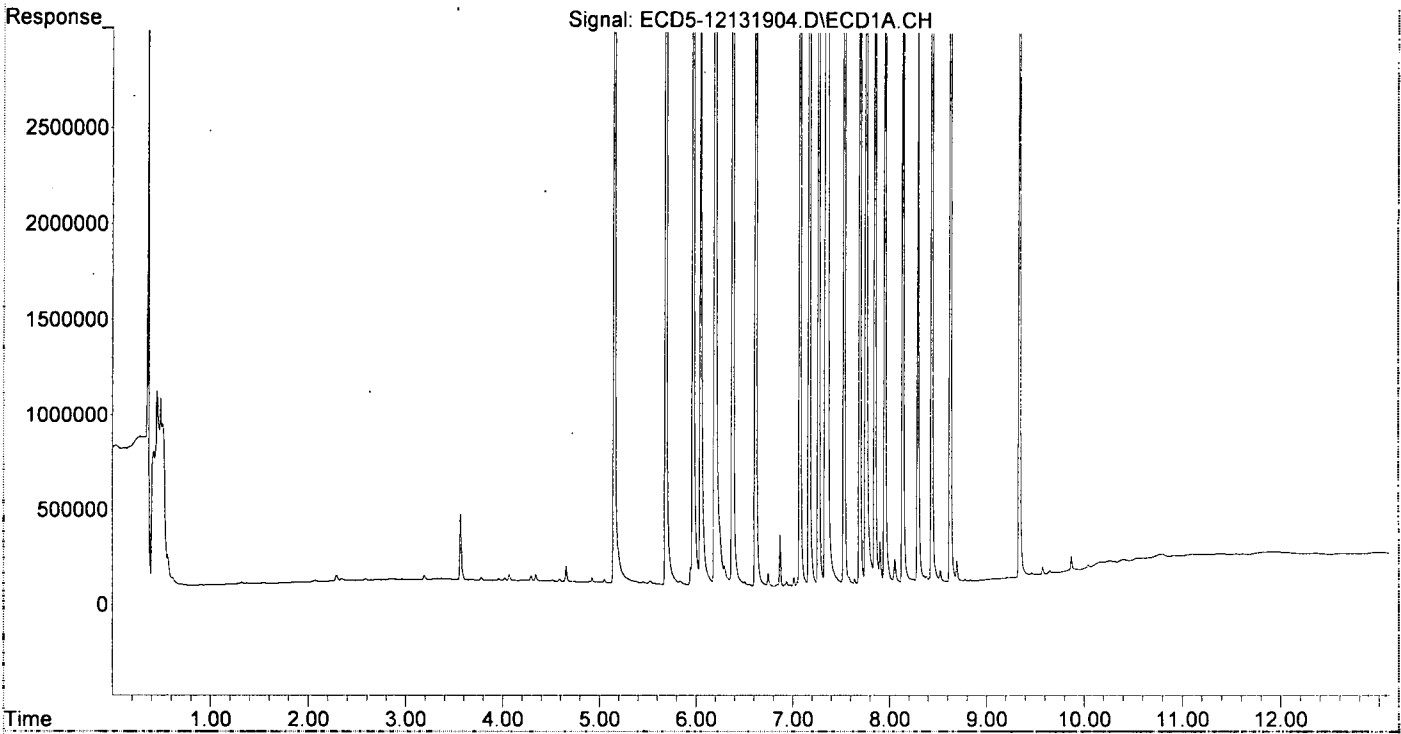
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.156	5.743	8293678	14121686	49.969	48.137
22) S DCBP (S)	9.341	10.244	6702253	9677116	47.500	53.833
Target Compounds						
2) a-BHC	5.690	6.348	12222497	21359722	53.297	52.054
3) g-BHC	5.971	6.664	10474426	18896799	51.911	52.976
4) b-BHC	6.049	6.733	3572339	6816817	39.524	43.072
5) Heptachlor	6.380	7.032	9952609	16788438	54.897	54.868
6) d-BHC	6.197	6.985	7577557	15533211	38.525	44.045
7) Aldrin	6.618	7.293	10021978	18034257	50.758	54.750
8) Heptachlo...	7.077	7.732	9432988	15636392	51.217	51.974
9) trans-Chl...	7.173	7.871	9442301	15746172	51.069	50.255
10) cis-Chlor...	7.270	7.978	9312698	15162713	51.149	52.061
11) Endosulfa...	7.361	8.025	9777185	14245241	57.452	51.768
12) 4,4'-DDE	7.341	8.093	8214166	13792810	43.570m	44.396
13) Dieldrin	7.534	8.225	10497749	16107510	54.682	52.959
14) Endrin	7.697	8.449	8895241	13216179	60.501	58.523
15) 4,4'-DDD	7.759	8.506	6700494	11101630	42.640	43.330
16) Endosulfa...	7.851	8.597	7730312	12279372	53.828	53.248
17) 4,4'-DDT	7.955	8.729	6217820	8733753	52.006	46.713
18) Endrin Al...	8.140	8.834	6600921	10334494	53.714	52.447
19) Endosulfa...	8.439	9.023	7587170	11357595	48.957	45.597
20) Methoxychlor	8.296	9.209	2934333	4127482	50.096	46.351
21) Endrin Ke...	8.630	9.415	8642786	12567849	51.828	48.842
23) Hexachlor...	2.958	3.476f	14071	11937	0.077	0.032 #
24) Hexachlor...	5.528	0.000	16709	0	0.095	N.D. #
25) Oxychlorane	7.014	7.649	45894	8841	0.279	0.032 #
26) 2,4'-DDE	7.077	7.871	9432988	15746172	73.545	74.226
27) trans-Non...	7.270	7.929	9312698	64432	51.694	0.214 #
28) 2,4'-DDD	0.000	8.225	0	16107510	N.D.	85.286 #
29) 2,4'-DDT	7.641	8.449	28293	13216179	0.258	74.107 #
30) cis-Nonac...	7.697f	8.506	8895241	11101630	42.845	33.095
31) Mirex	0.000	9.415	0	12567849	N.D.	67.542 #
32) Chlordane...	0.000	7.929	0	64432	N.D.	1.781 #
33) Chlordane...	0.000	8.025	0	14245241	N.D.	469.148 #
34) Chlordane...	7.851	8.674f	7730312	68044	1337.165	7.589 #
35) Chlordane...	3.414f	3.415	13707	6476	NoCal	NoCal
36) Toxaphene...	7.270f	0.000	9312698	0	10397.728	N.D. #
37) Toxaphene...	0.000	8.597	0	12279372	N.D.	3731.169 #
38) Toxaphene...	7.905	8.647	221648	117908	65.820	23.264 #
39) Toxaphene...	8.140	8.729	6600921	8733753	2037.226	1045.979 #
40) Toxaphene...	0.000	8.914f	0	160600	N.D.	34.461 #
41) Toxaphene...	8.439	9.262	7587170	24540	2397.526	5.166 #
42) Toxaphene...	0.000	3.415f	0	6476	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 12:12  
Operator : MJB  
Sample : 9L13033-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

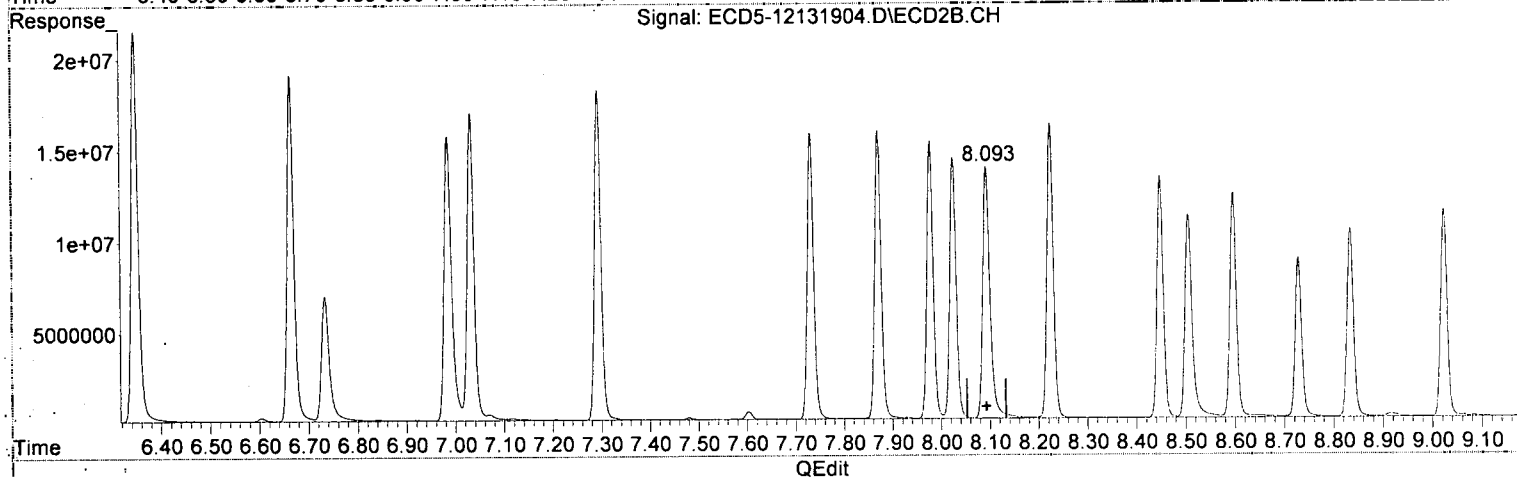
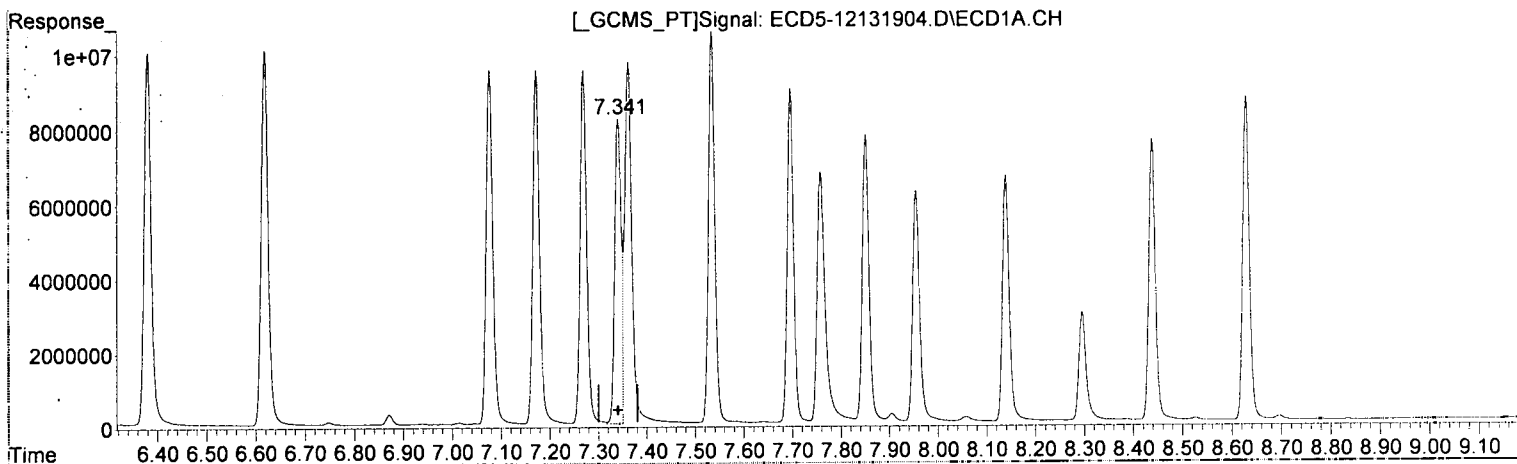
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:13:54 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 12:12  
Operator : MJB  
Sample : 9L13033-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:09:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.341min 43.570 ng/mL(m)  
response 8214166

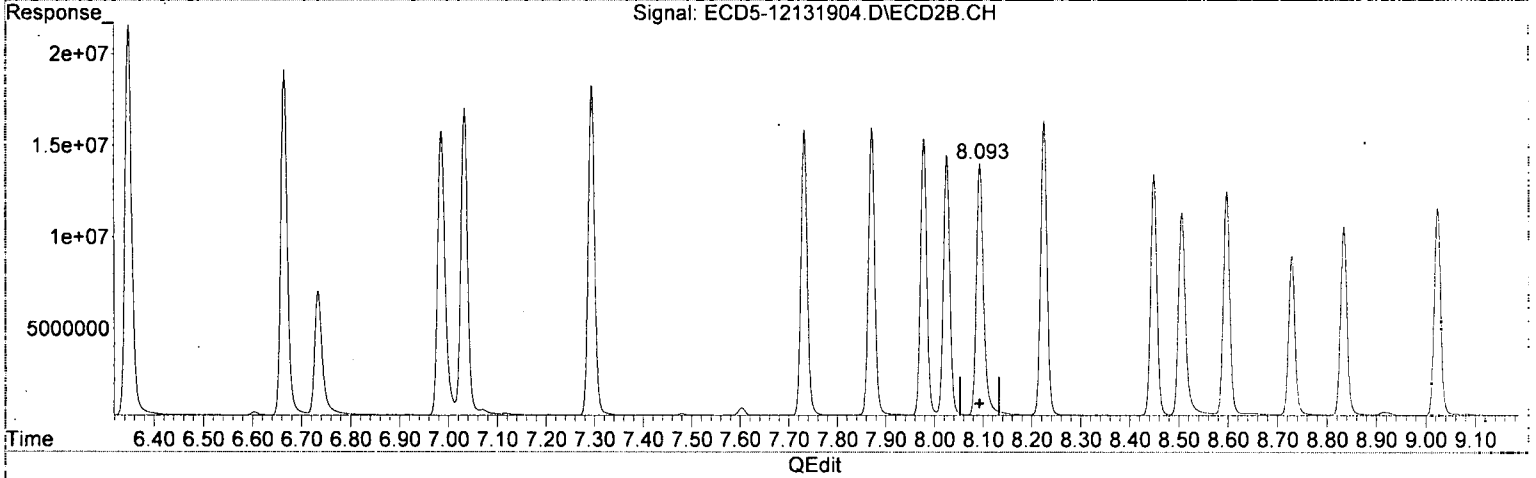
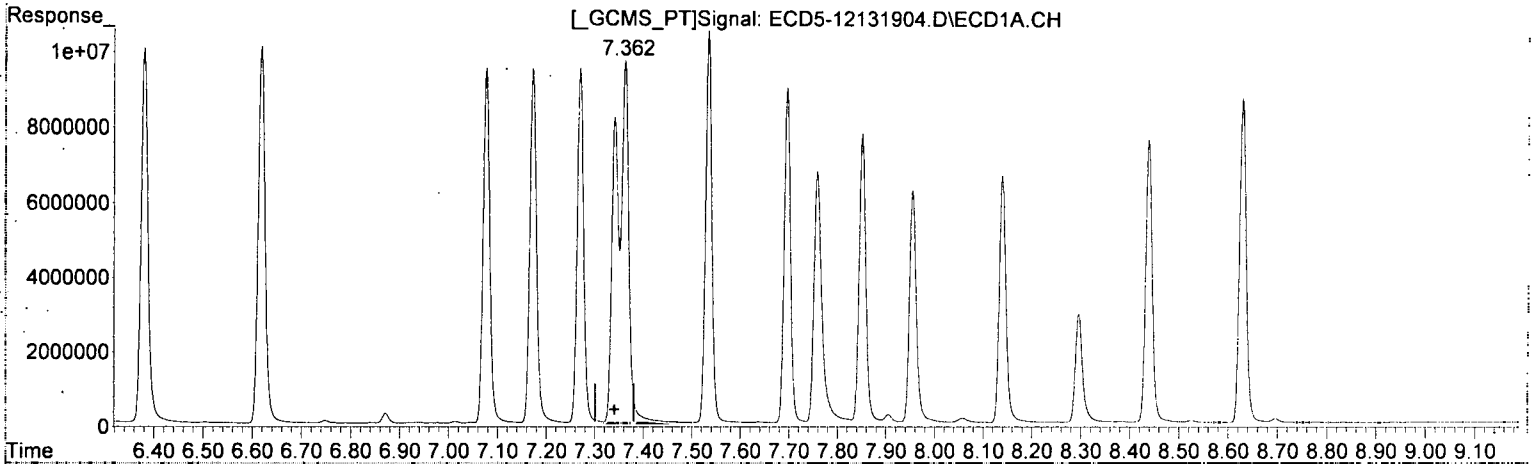
*MJB*  
*12/13/19*

(12) 4,4'-DDE #2  
8.093min 44.396 ng/mL  
response 13792810

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 12:12  
Operator : MJB  
Sample : 9L13033-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:09:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.361min 51.860 ng/mL  
response 9777185

*MJB*  
*12/13/19*

(12) 4,4'-DDE #2  
8.093min 44.396 ng/mL  
response 13792810

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 12:12  
 Operator : MJB  
 Sample : 9L13033-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:09:50 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*(MI)*  
*MJB*  
*12/13/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.156	5.743	8293678	14121686	49.969	48.137
22) S DCBP (S)	9.341	10.244	6702253	9677116	47.500	53.833
Target Compounds						
2) a-BHC	5.690	6.348	12222497	21359722	53.297	52.054
3) g-BHC	5.971	6.664	10474426	18896799	51.911	52.976
4) b-BHC	6.049	6.733	3572339	6816817	39.524	43.072
5) Heptachlor	6.380	7.032	9952609	16788438	54.897	54.868
6) d-BHC	6.197	6.985	7577557	15533211	38.525	44.045
7) Aldrin	6.618	7.293	10021978	18034257	50.758	54.750
8) Heptachlo...	7.077	7.732	9432988	15636392	51.217	51.974
9) trans-Chl...	7.173	7.871	9442301	15746172	51.069	50.255
10) cis-Chlor...	7.270	7.978	9312698	15162713	51.149	52.061
11) Endosulfa...	7.361	8.025	9777185	14245241	57.452	51.768
12) 4,4'-DDE	7.361f	8.093	9777185	13792810	51.860	44.396
13) Dieldrin	7.534	8.225	10497749	16107510	54.682	52.959
14) Endrin	7.697	8.449	8895241	13216179	60.501	58.523
15) 4,4'-DDD	7.759	8.506	6700494	11101630	42.640	43.330
16) Endosulfa...	7.851	8.597	7730312	12279372	53.828	53.248
17) 4,4'-DDT	7.955	8.729	6217820	8733753	52.006	46.713
18) Endrin Al...	8.140	8.834	6600921	10334494	53.714	52.447
19) Endosulfa...	8.439	9.023	7587170	11357595	48.957	45.597
20) Methoxychlor	8.296	9.209	2934333	4127482	50.096	46.351
21) Endrin Ke...	8.630	9.415	8642786	12567849	51.828	48.842
23) Hexachlor...	2.958	3.416f	14071	11937	0.077	0.032 #
24) Hexachlor...	5.528	0.000	16709	0	0.095	N.D. #
25) Oxychlorane	7.014	7.649	45894	8841	0.279	0.032 #
26) 2,4'-DDE	7.077	7.871	9432988	15746172	73.545	74.226
27) trans-Non...	7.270	7.929	9312698	64432	51.694	0.214 #
28) 2,4'-DDD	0.000	8.225	0	16107510	N.D.	85.286 #
29) 2,4'-DDT	7.641	8.449	28293	13216179	0.258	74.107 #
30) cis-Nonac...	7.697f	8.506	8895241	11101630	42.845	33.095
31) Mirex	0.000	9.415	0	12567849	N.D.	67.542 #
32) Chlordane...	0.000	7.929	0	64432	N.D.	1.781 #
33) Chlordane...	0.000	8.025	0	14245241	N.D.	469.148 #
34) Chlordane...	7.851	8.674f	7730312	68044	1337.165	7.589 #
35) Chlordane...	3.414f	3.415	13707	6476	NoCal	NoCal
36) Toxaphene...	7.270f	0.000	9312698	0	10397.728	N.D. #
37) Toxaphene...	0.000	8.597	0	12279372	N.D.	3731.169 #
38) Toxaphene...	7.905	8.647	221648	117908	65.820	23.264 #
39) Toxaphene...	8.140	8.729	6600921	8733753	2037.226	1045.979 #
40) Toxaphene...	0.000	8.914f	0	160600	N.D.	34.461 #
41) Toxaphene...	8.439	9.262	7587170	24540	2397.526	5.166 #
42) Toxaphene...	0.000	3.415f	0	6476	N.D.	NoCal

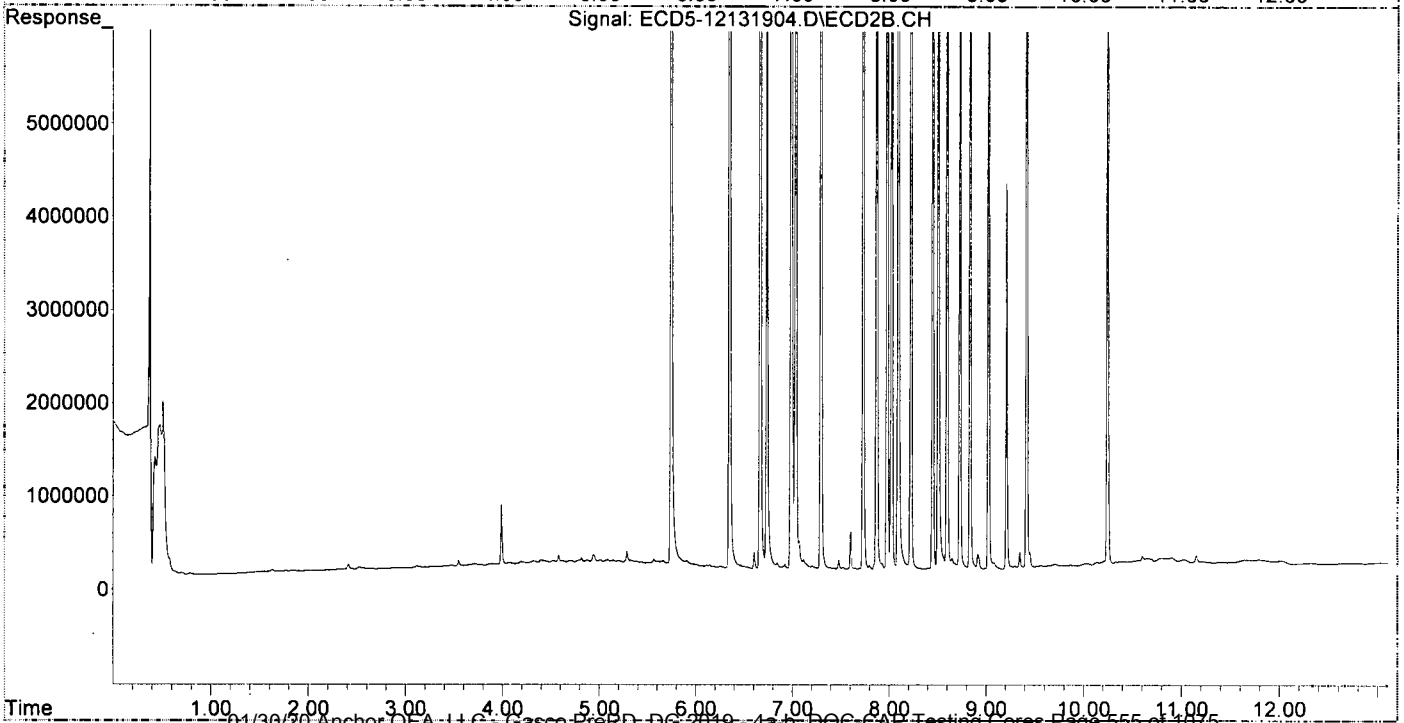
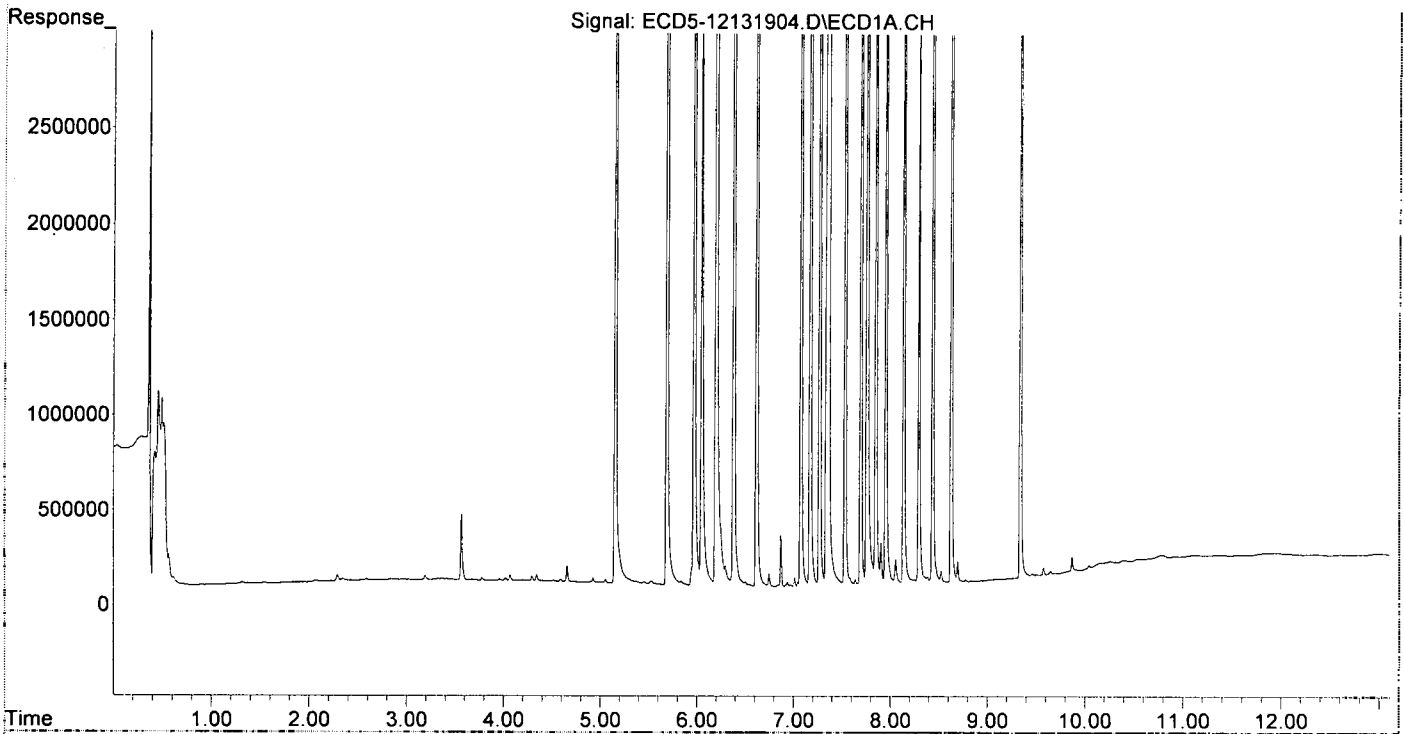
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 12:12  
Operator : MJB  
Sample : 9L13033-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:09:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131905.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 12:29  
 Operator : MJB  
 Sample : 9L13033-CCV2  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:09:56 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/13/19

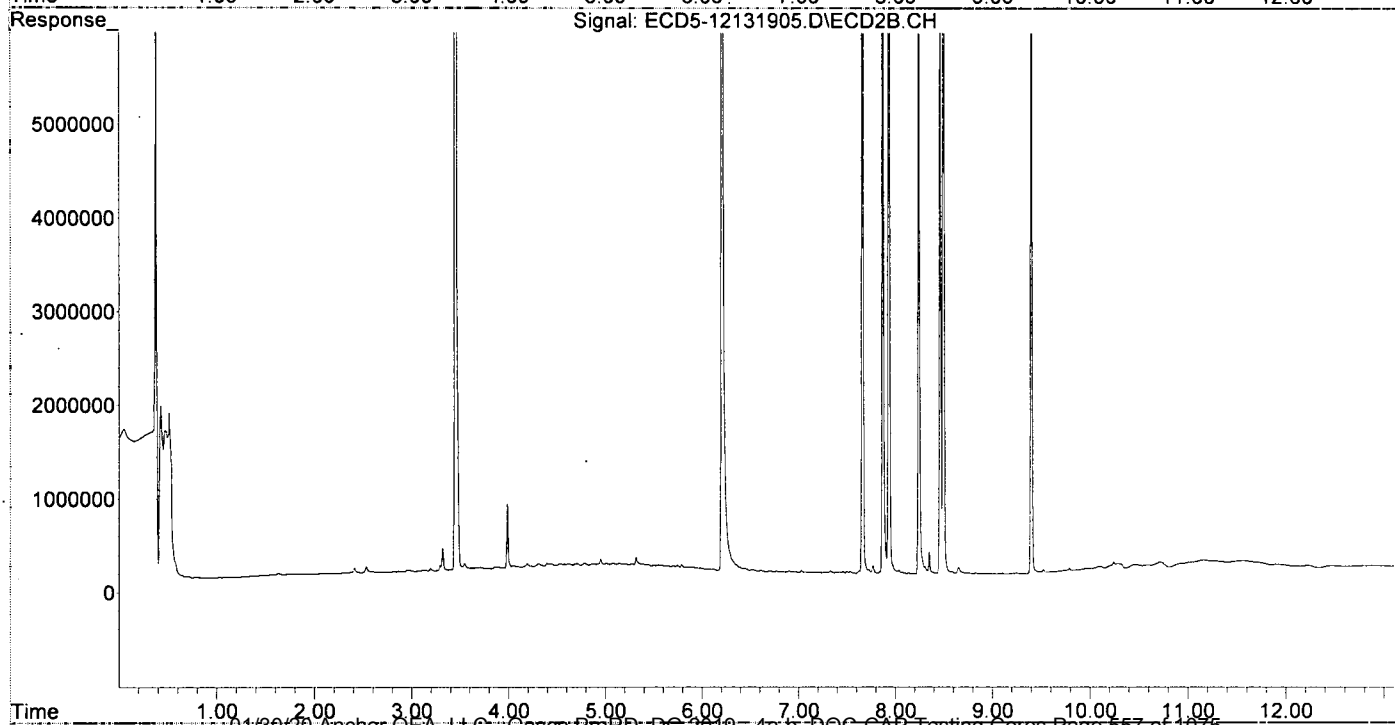
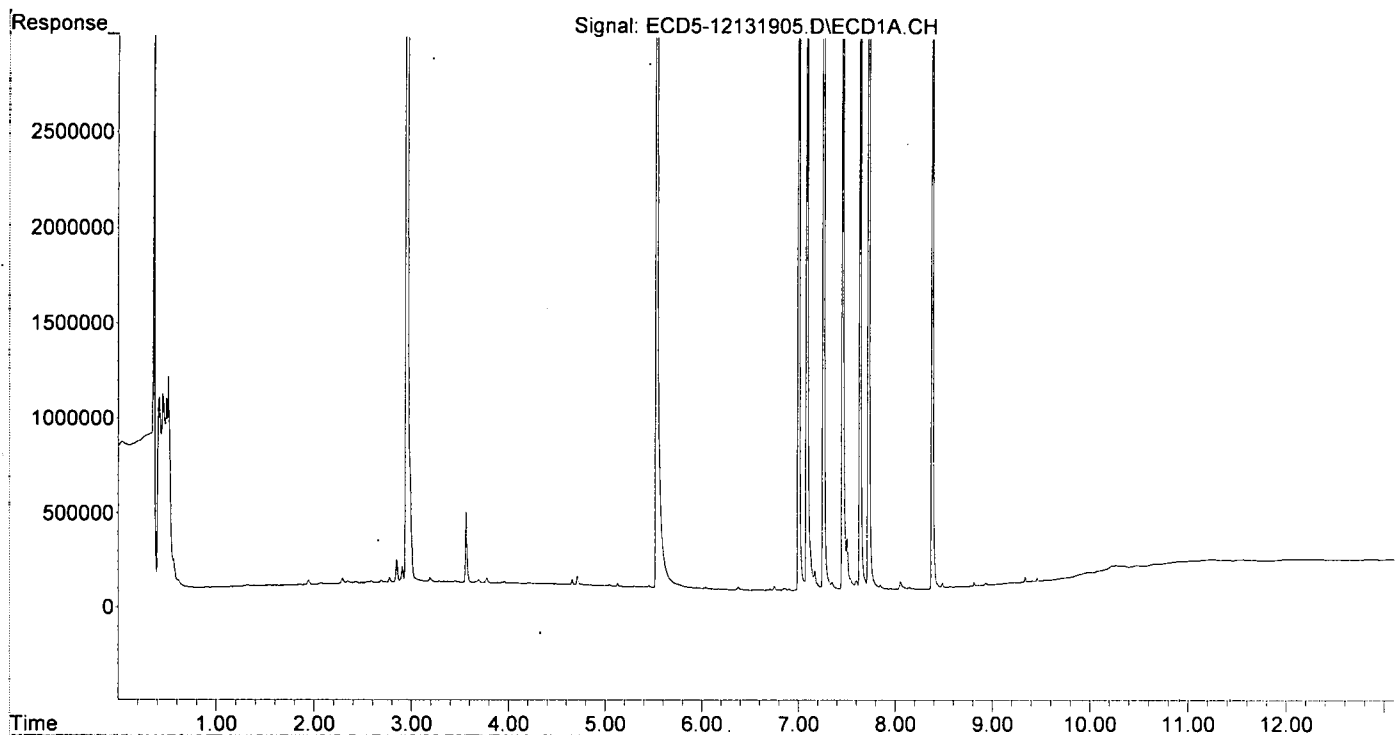
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.129f	5.747	15563	25804	0.094	0.088
22) S DCBP (S)	9.340	10.243	27594	81262	0.196	0.452 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.697f	0	7735	N.D.	0.022 #
4) b-BHC	6.042	6.697f	8901	7735	0.098	0.049 #
5) Heptachlor	6.378	7.030	16990	20164	0.094	0.066
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	0.000	7.283	0	7940	N.D.	0.024 #
8) Heptachlo...	7.089	7.727	5225168	43717	28.370	0.145 #
9) trans-Chl...	7.170	7.870	103058	9438751	0.557	30.124 #
10) cis-Chlor...	7.262	0.000	9015768	0	49.518	N.D. #
11) Endosulfa...	7.348	8.041	41380	40324	0.243	0.147
12) 4,4'-DDE	7.348	0.000	41380	0	0.219	N.D. #
13) Dieldrin	7.504f	8.241	271022	8032139	1.412	26.408 #
14) Endrin	7.728f	8.462	10425806	7802758	70.911	34.552 #
15) 4,4'-DDD	7.728f	8.496	10425806	16368925	66.347	63.888
16) Endosulfa...	7.850	8.588	22796	17337	0.159	0.075 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.150	8.831	9103	5702	BelowCal	BelowCal
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.632	9.399	3249	8439315	0.019	32.797 #
23) Hexachlor...	2.954	3.450	9230690	20413716	50.513	54.302
24) Hexachlor...	5.535	6.206	8848169	14589271	50.190	46.450
25) Oxychloro...	7.005	7.660	7860308	13112539	47.772	47.873
26) 2,4'-DDE	7.089	7.870	5225168	9438751	40.739	44.493
27) trans-Non...	7.262	7.933	9015768	14501173	50.034	48.075
28) 2,4'-DDD	7.459	8.241	4764480	8032139	41.748	42.529
29) 2,4'-DDT	7.640	8.462	5203084	7802758	47.435	43.752
30) cis-Nonac...	7.728	8.496	10425806	16368925	50.217	48.797
31) Mirex	8.386	9.399	5972583	8439315	47.641	45.355
32) Chlordane...	7.262f	7.933	9015768	14501173	457.895	400.756
33) Chlordane...	7.348f	8.041	41380	40324	1.651	1.328
34) Chlordane...	7.850	0.000	22796	0	3.943	N.D. #
35) Chlordane...	3.450	3.450	6325	20413716	NoCal	NoCal
36) Toxaphene...	7.262f	8.241f	9015768	8032139	10066.202	3060.727 #
37) Toxaphene...	7.599	8.588f	47484	17337	29.403	5.268 #
38) Toxaphene...	0.000	8.651	0	64122	N.D.	12.652 #
39) Toxaphene...	8.150	0.000	9103	0	2.809	N.D. #
40) Toxaphene...	8.386f	0.000	5972583	0	2491.543	N.D. #
41) Toxaphene...	0.000	9.249	0	8742	N.D.	1.840 #
42) Toxaphene...	3.450	3.450	6325	20413716	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131905.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 12:29  
Operator : MJB  
Sample : 9L13033-CCV2  
Misc : A19J408, 9-42 50 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:09:56 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131906.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 12:46  
 Operator : MJB  
 Sample : 9L13033-CCB1  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:10:04 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/13/19*

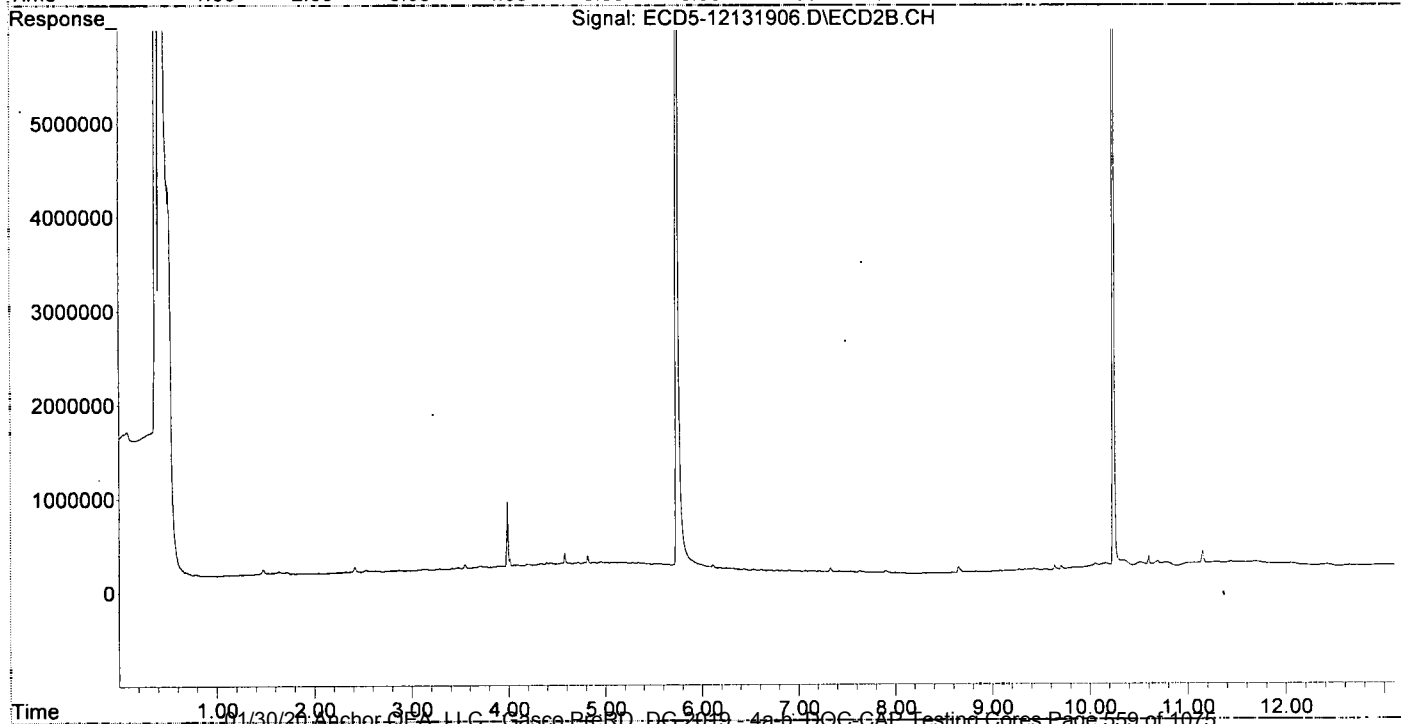
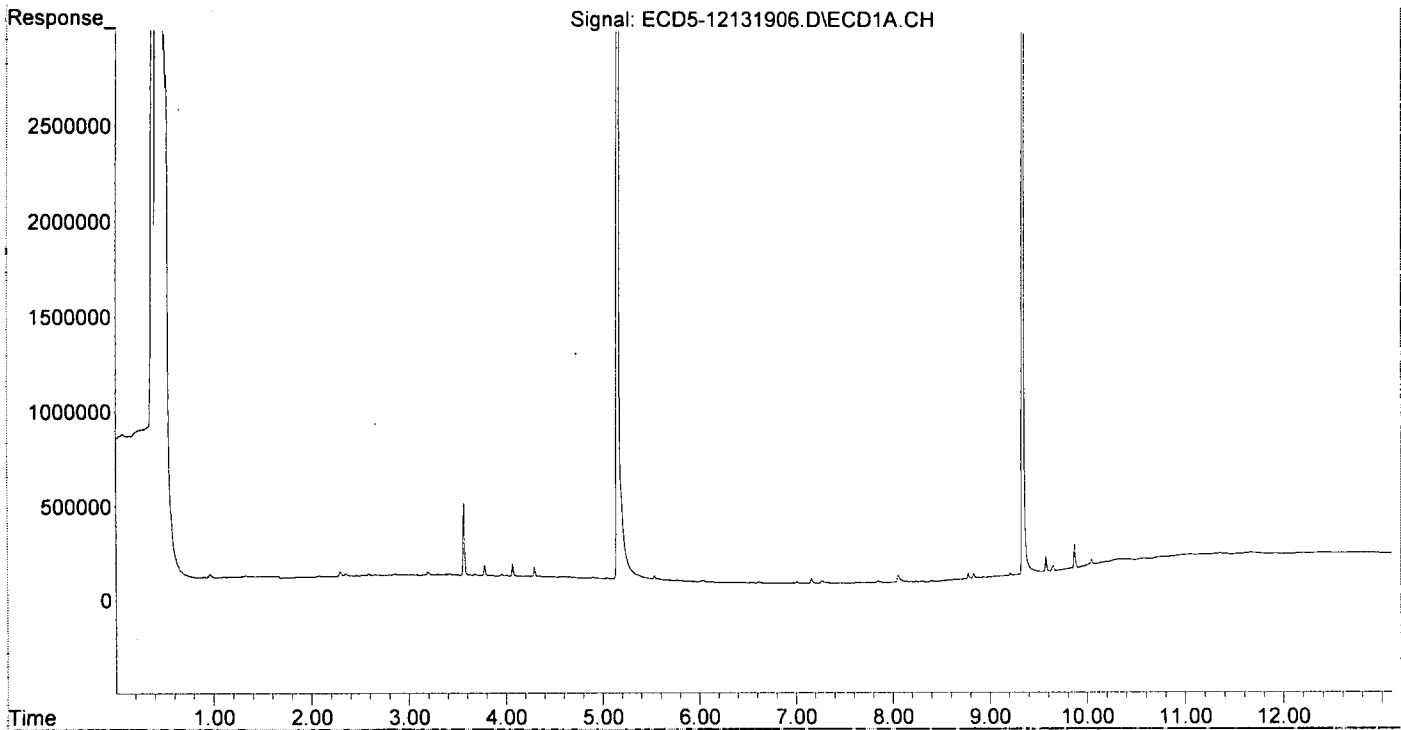
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.154	5.741	16673520	30052478	100.458	102.440
22) S DCBP (S)	9.339	10.242	13827318	20809697	97.998	115.762
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.693f	0	7616	N.D.	0.021 #
4) b-BHC	6.041	6.693f	7588	7616	0.084	0.048 #
5) Heptachlor	0.000	7.063f	0	8124	N.D.	0.027 #
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.614	7.327f	6047	39802	0.031	0.121 #
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.160	7.897f	28277	17399	0.153	0.056 #
10) cis-Chlor...	7.267	0.000	12285	0	0.067	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.850	8.586	10591	9758	0.074	0.042 #
17) 4,4'-DDT	0.000	8.743	0	3051	N.D.	BelowCal
18) Endrin Al...	8.138	0.000	5551	0	BelowCal	N.D.
19) Endosulfa...	8.399f	0.000	5624	0	0.036	N.D. #
20) Methoxychlor	8.292	0.000	2746	0	0.047	N.D. #
21) Endrin Ke...	0.000	9.415	0	8059	N.D.	0.031 #
23) Hexachlor...	2.955	3.476f	15063	13244	0.082	0.035 #
24) Hexachlor...	5.534	0.000	24601	0	0.140	N.D. #
25) Oxychlorane	7.007	7.628f	9199	13654	0.056	0.050
26) 2,4'-DDE	0.000	7.897f	0	17399	N.D.	0.082 #
27) trans-Non...	7.267	7.897f	12285	17399	87346.632	0.058 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.645	0.000	3542	0	0.032	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.399	9.415	5624	8059	0.045	0.043
32) Chlordane...	0.000	7.897f	0	17399	N.D.	0.481 #
33) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
34) Chlordane...	7.850	0.000	10591	0	1.832	N.D. #
35) Chlordane...	3.415f	3.413f	14318	10201	NoCal	NoCal
36) Toxaphene...	7.267f	0.000	12285	0	13.717	N.D. #
37) Toxaphene...	0.000	8.586f	0	9758	N.D.	2.965 #
38) Toxaphene...	0.000	8.651	0	58209	N.D.	11.485 #
39) Toxaphene...	8.138	8.743f	5551	3051	1.713	0.365 #
40) Toxaphene...	8.399f	0.000	5624	0	2.346	N.D. #
41) Toxaphene...	8.399f	9.275	5624	9659	1.777	2.033
42) Toxaphene...	0.000	3.413f	0	10201	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131906.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 12:46:  
Operator : MJB  
Sample : 9L13033-CCB1  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:04 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 13:04  
 Operator : MJB  
 Sample : A9I0890-17RE185  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:20:14 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*R-04*  
 MJB  
 12/13/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.154	5.742	1729078	4533457	10.418	15.453 #
22) S DCBP (S)	9.338	10.241	1836465	2629663	13.015	14.628 #

*S-04*

Target Compounds	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
2) a-BHC	5.668f	6.338	506430	855650	2.208	2.085
3) g-BHC	5.976	6.699f	325656	548444	1.614	1.538
4) b-BHC	6.046	6.730	387796	544718	4.291	3.442
5) Heptachlor	6.384	7.039	744545	912176	4.107	2.981
6) d-BHC	6.179	6.973	443751	284824	2.256	0.808 #
7) Aldrin	6.622	7.277	797232	1327615	4.038	4.030
8) Heptachlo...	7.048f	7.744	715910	240458	3.887	0.799 #
9) trans-Chl...	7.183	7.867	393732	520176	2.130	1.660
10) cis-Chlor...	7.278	7.975	467372	299069	2.567	1.027 #
11) Endosulfa...	7.385f	8.012	398813	299259	2.343	1.088 #
12) 4,4'-DDE	7.323	8.093	184953	402773	0.981m	1.296 #
13) Dieldrin	7.541	8.206	497217	1221964	2.590	4.018 #
14) Endrin	7.701	8.442	988722	370525	6.725	1.641 #
15) 4,4'-DDD	7.748	8.517	185364	184051	1.180m	0.718m
16) Endosulfa...	7.839	8.584	509069	562148	3.545	2.438
17) 4,4'-DDT	7.962	8.731	342615	484518	2.866m	2.774 #
18) Endrin Al...	8.155	8.848	465362	233161	2.970	0.427 #
19) Endosulfa...	8.440	9.034	5825243	1168348	37.588	4.691 #
20) Methoxychlor	8.311	9.220	1399554	1212142	23.894	14.419
21) Endrin Ke...	8.642	9.416	714139	638796	4.282	2.483 #
23) Hexachlor...	2.955	3.425f	128557	183838	0.704	0.489
24) Hexachlor...	5.531	6.212	349155	594267	1.981	1.892
25) Oxychlorane	6.997	7.650	461413	778413	2.804	2.842
26) 2,4'-DDE	7.076	7.867	142907	520176	1.114m	2.452 #
27) trans-Non...	7.251	7.951	411161	316617	1.979	1.050 #
28) 2,4'-DDD	7.459	8.224	181100	285954	1.587m	1.514m
29) 2,4'-DDT	7.624	8.467	322554	563936	2.941m	3.162 #
30) cis-Nonac...	7.736	8.494	600764	180057	2.894	0.537 #
31) Mirex	8.393	9.390	613212	260666	4.891	1.401 #
32) Chlordane...	7.226	7.951	476511	316617	24.201	8.750 #
33) Chlordane...	7.323	8.051	490187	491452	19.557	16.185
34) Chlordane...	7.839f	8.691	509069	130394	88.057	14.543 #
35) Chlordane...	3.434	3.425	172304	183838	NoCal	NoCal
36) Toxaphene...	7.303	8.258	437510	151424	488.485	57.701 #
37) Toxaphene...	7.589	8.636	632912	287239	391.911	87.280 #
38) Toxaphene...	7.903	8.636	427479	287239	126.943	56.673 #
39) Toxaphene...	8.155	8.710	465362	240975	143.623	28.860 #
40) Toxaphene...	8.353	8.885	597207	221951	249.133	47.625 #
41) Toxaphene...	8.440	9.281	5825243	10328526	1840.762	2174.334
42) Toxaphene...	3.434f	3.425	172304	183838	NoCal	NoCal

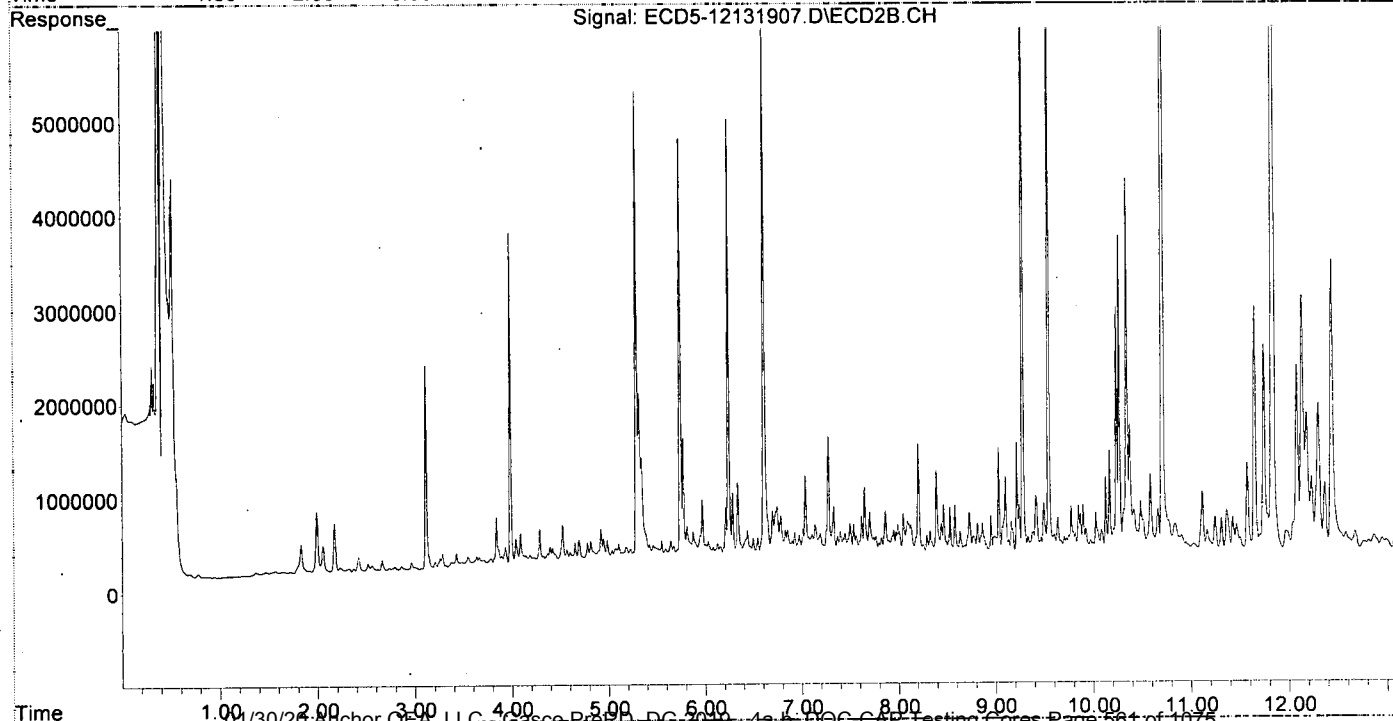
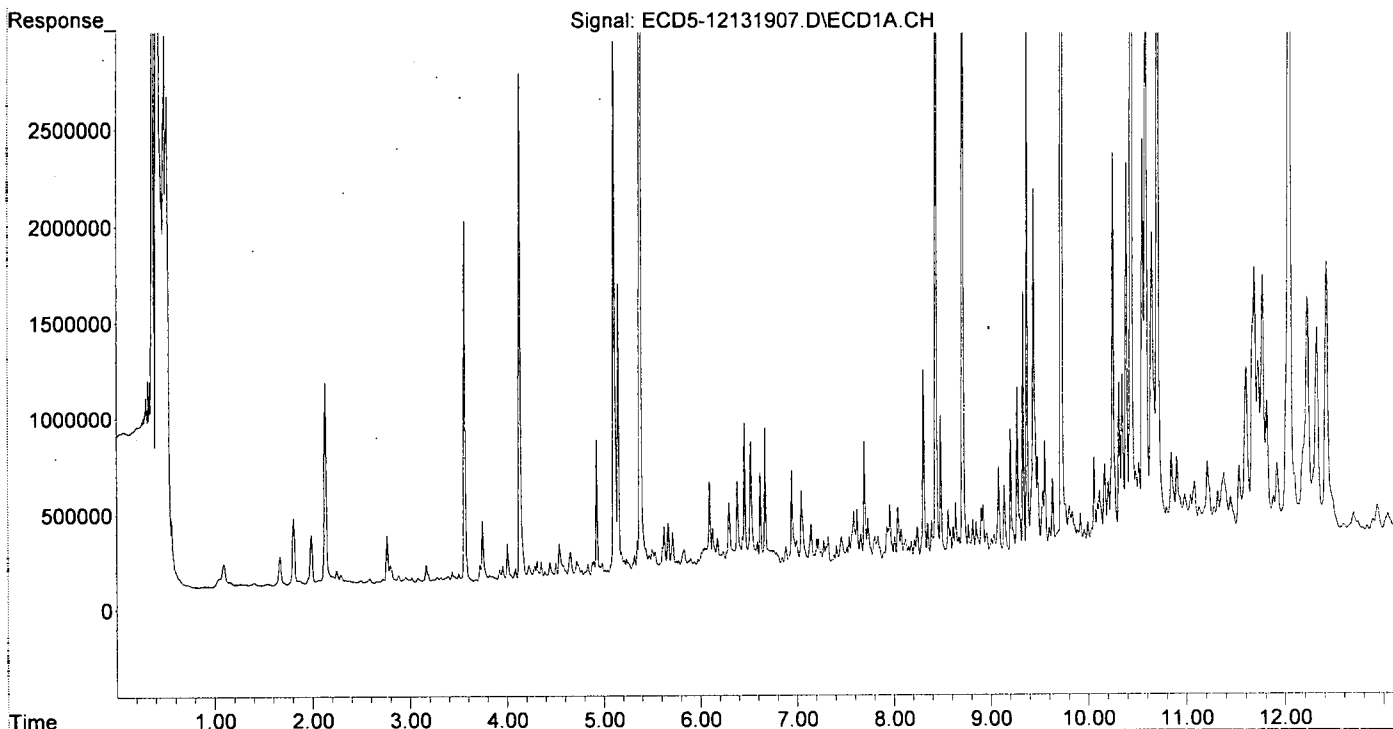
*MDL-MEL*  
*R-02*  
*R-01*  
*R-01*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

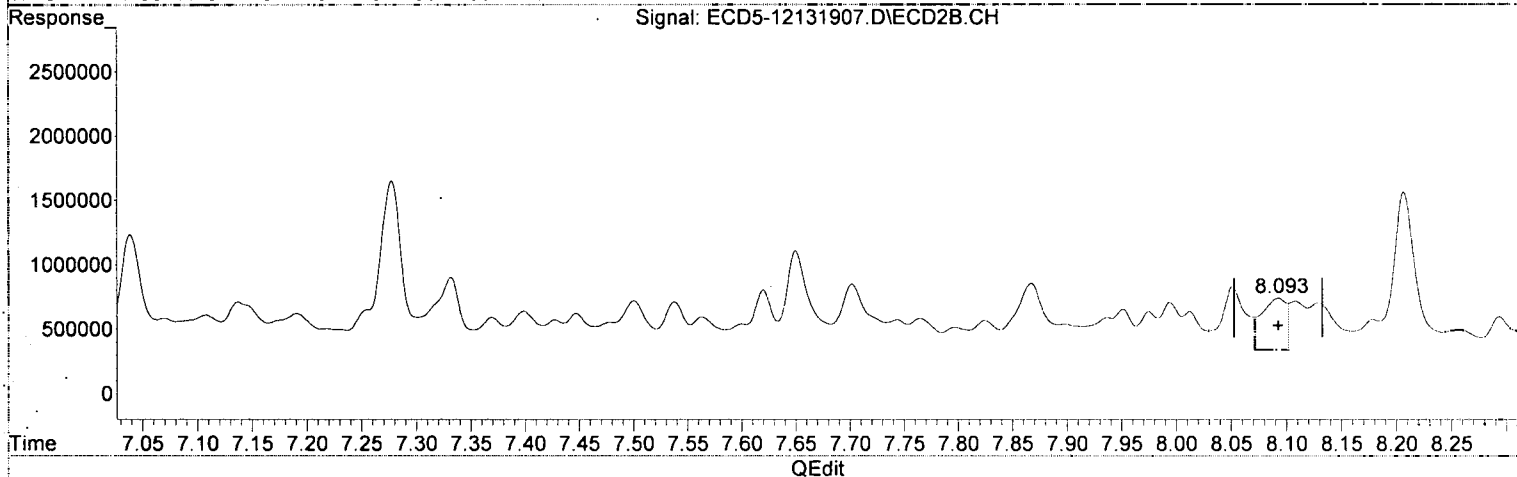
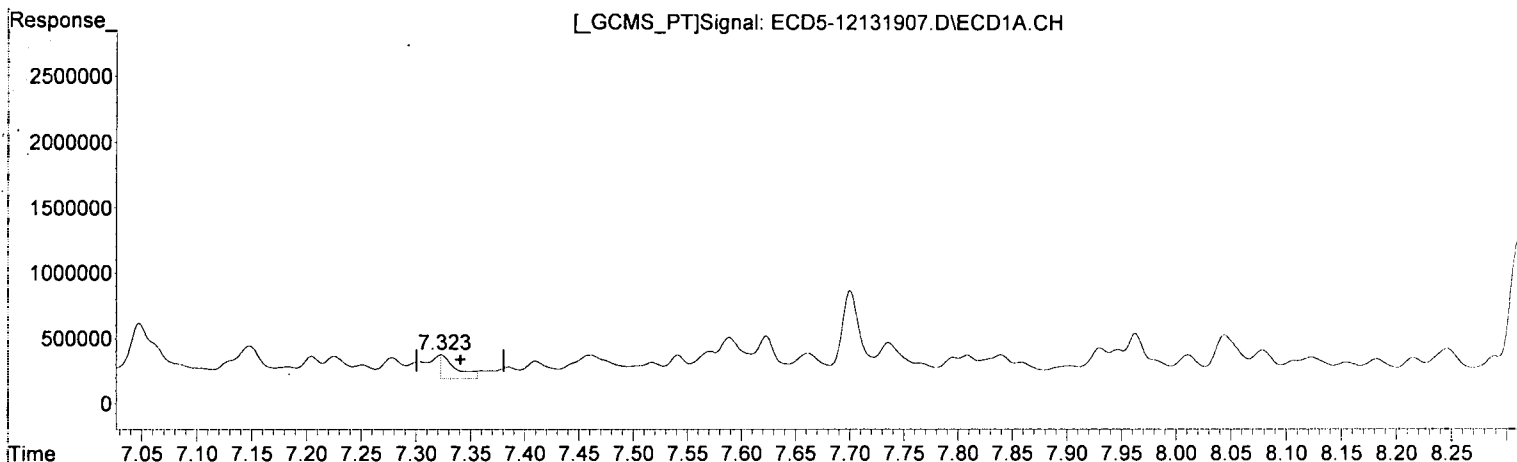
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:20:14 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.323min 0.981 ng/mL (+)  
response 184953

*MJB  
12/13/19*

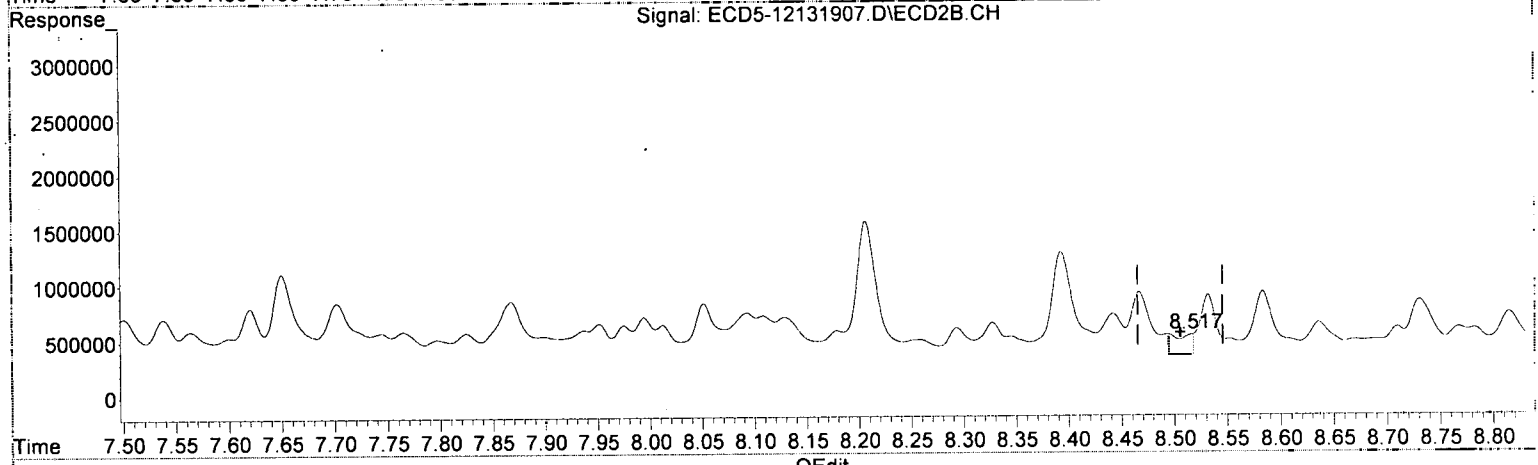
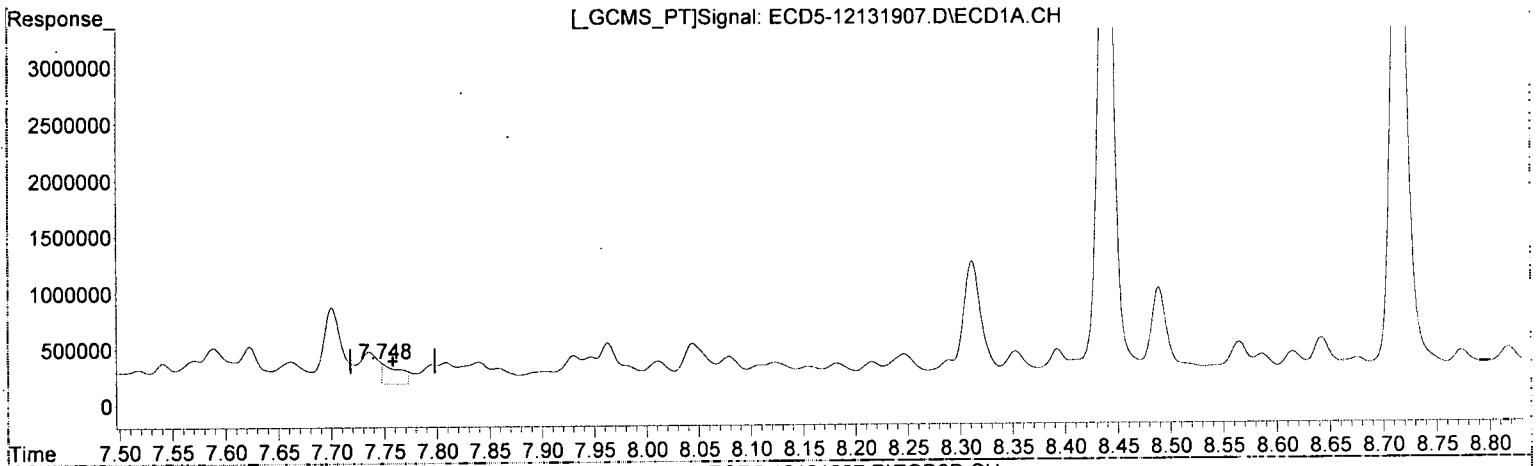
(12) 4,4'-DDE #2  
8.093min 1.296 ng/mL (+)  
response 402773



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD  
7.748min 1.180 ng/mL(m)  
response 185364

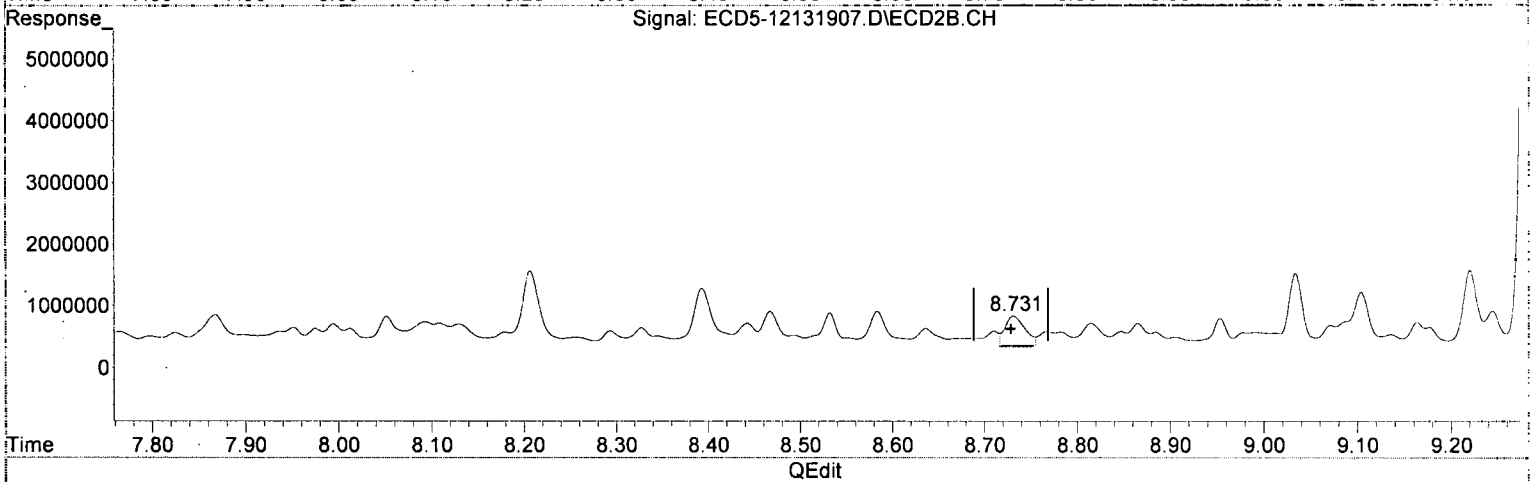
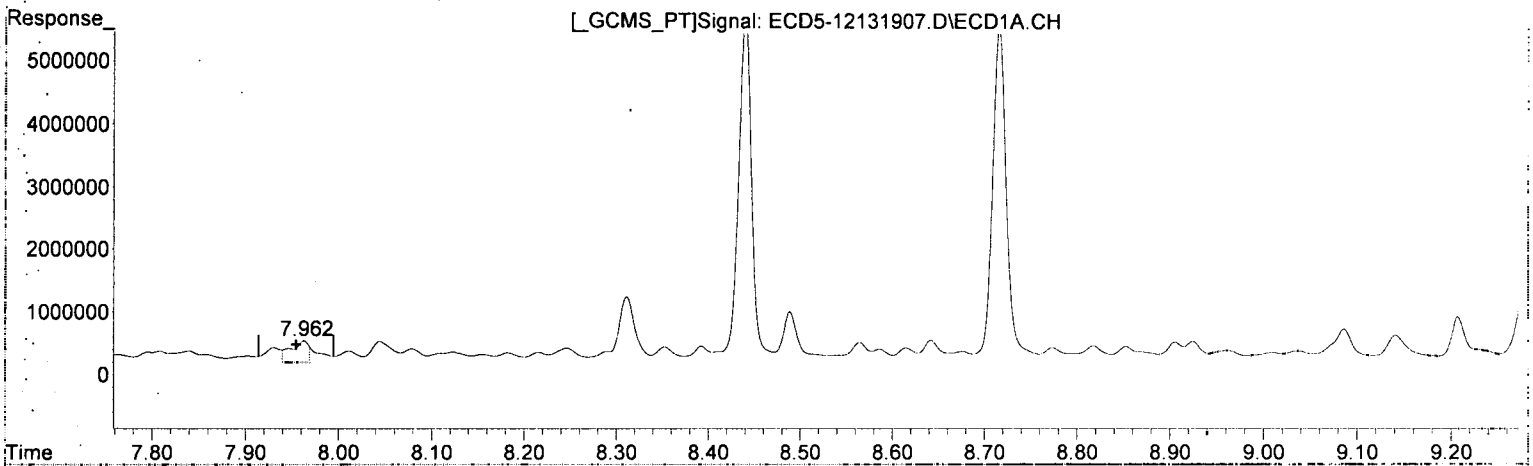
MJB 12/13/19

(15) 4,4'-DDD #2  
8.517min 0.718 ng/mL(m)  
response 184051

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE105  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT  
7.962min 2.866 ng/mL (m)  
response 342615

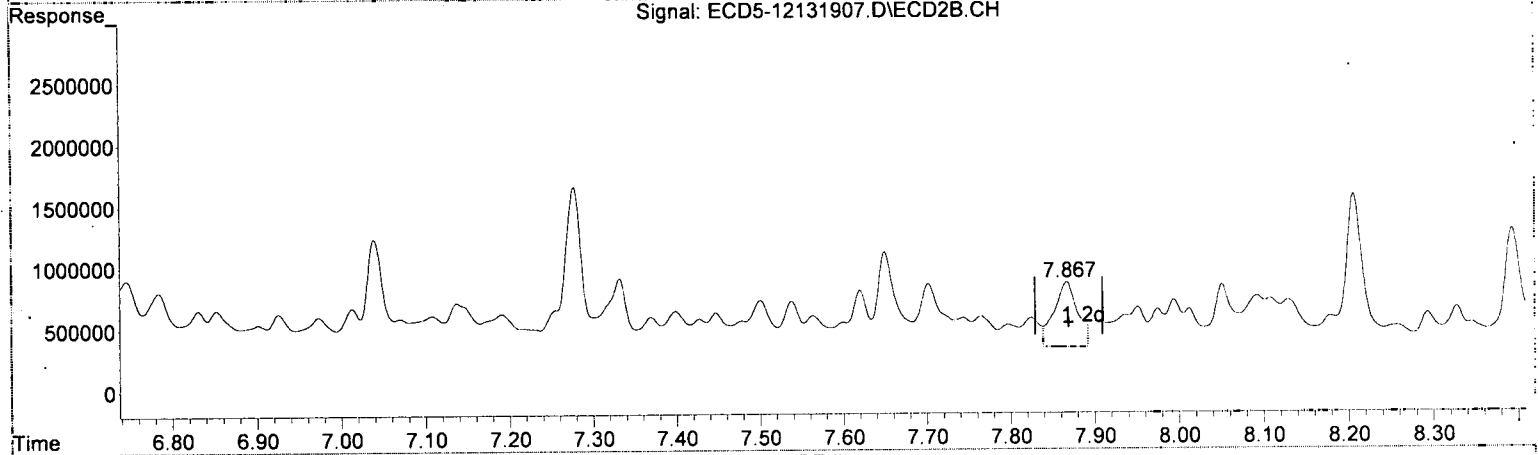
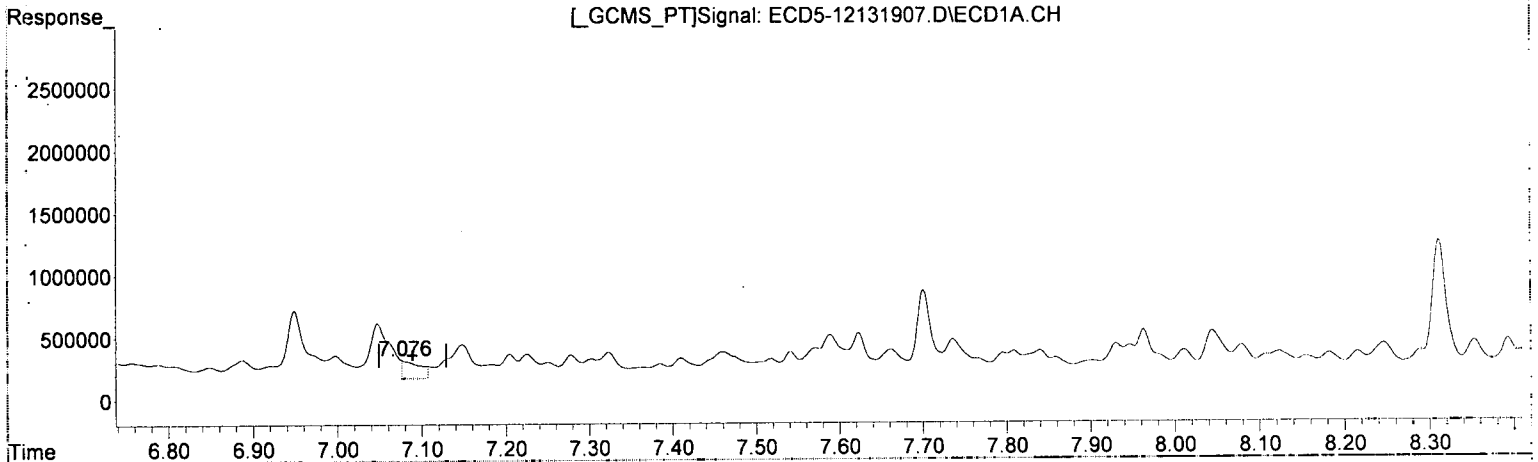
*MJB 12/13/19*

(17) 4,4'-DDT #2  
8.731min 2.774 ng/mL *2.02*  
response 484518

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE105  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE  
7.076min 1.114 ng/mL (m) *MDL=MDL*  
response 142907

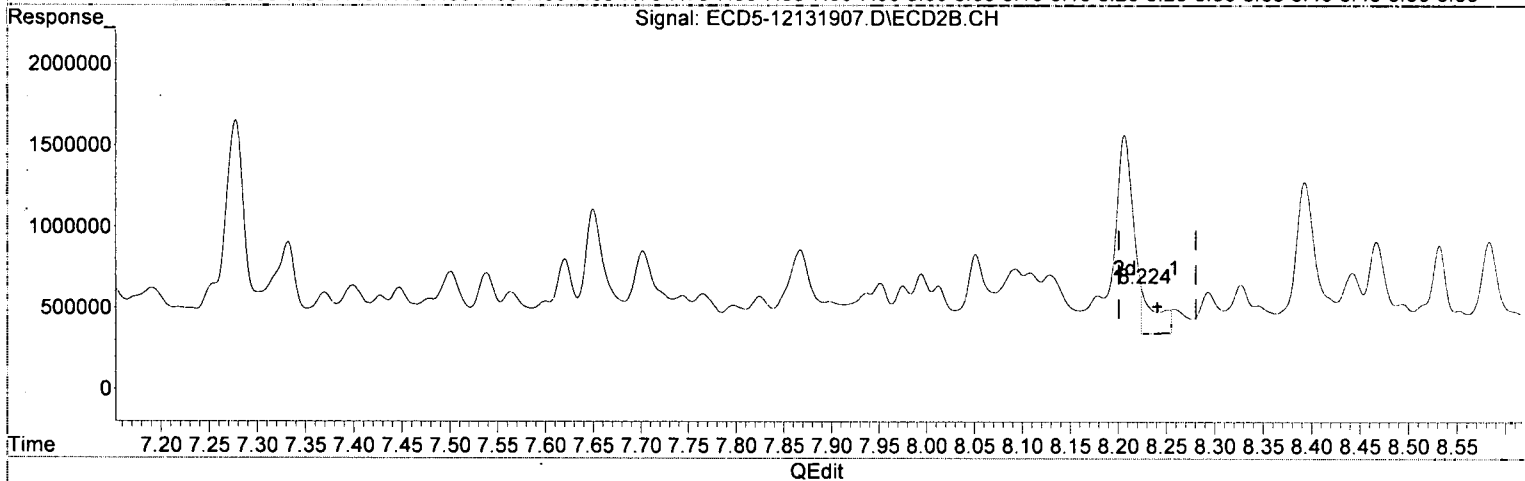
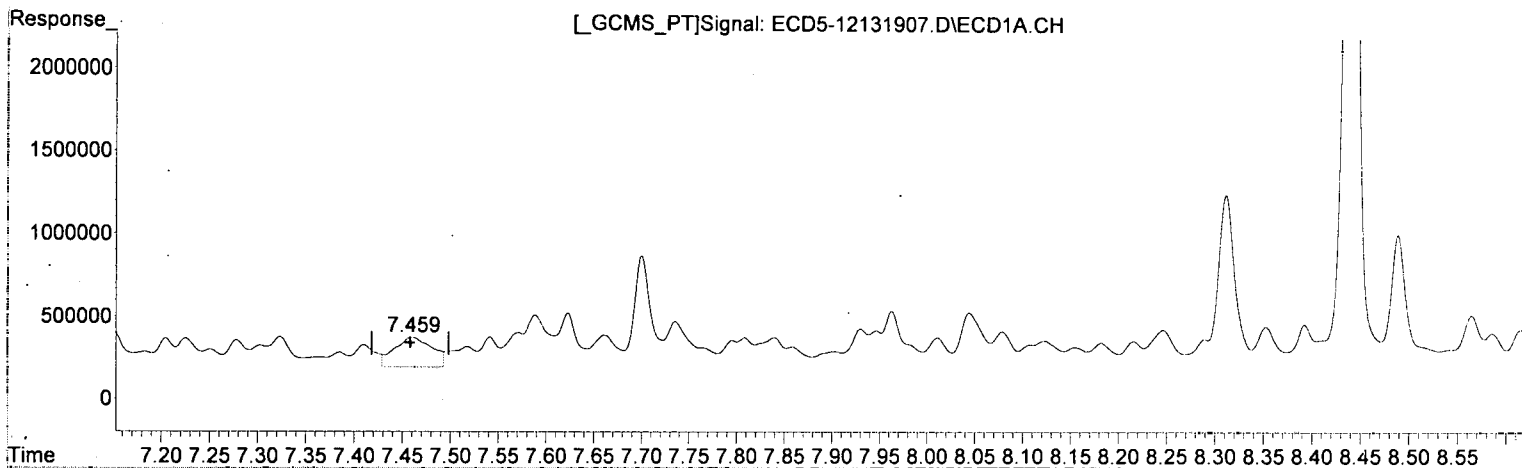
*MJB 12/13/19*

(26) 2,4'-DDE #2  
7.867min 2.452 ng/mL *9-01*  
response 520176

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD  
7.459min 1.587 ng/mL(m)  
response 181100

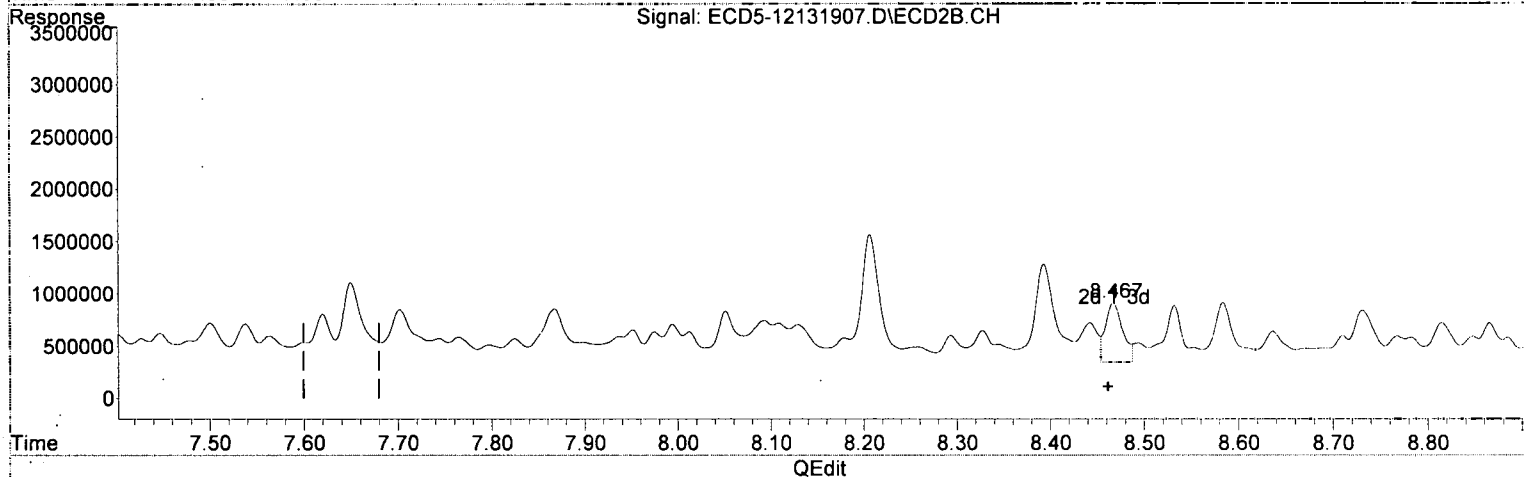
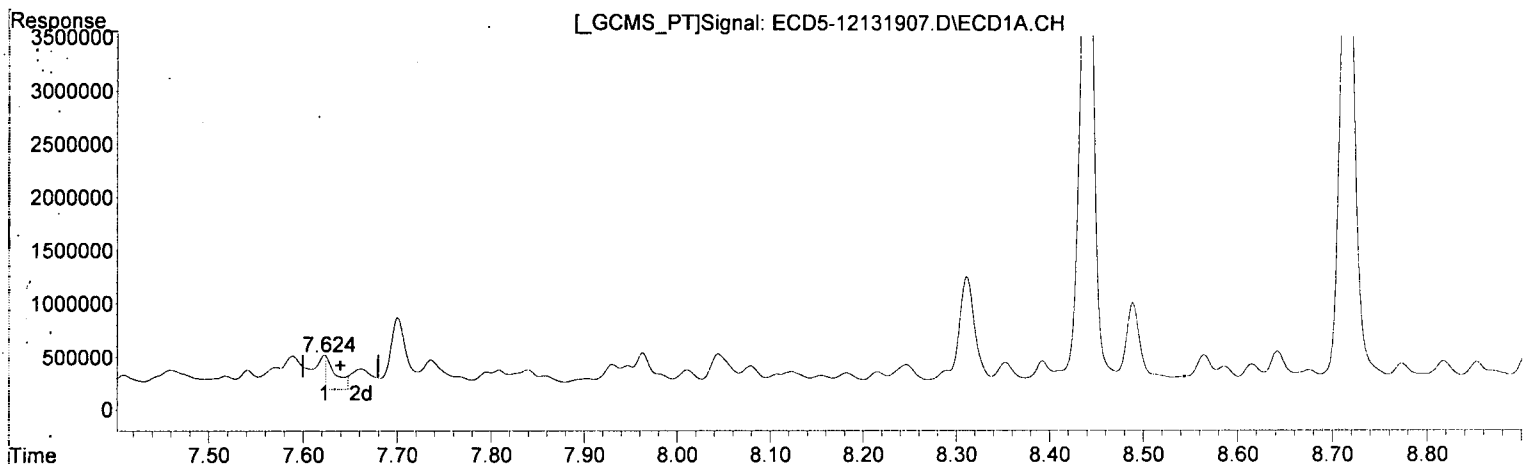
*MJB 12/13/19*

(28) 2,4'-DDD #2  
8.224min 1.514 ng/mL (D) MDL=MRL  
response 285954

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 13:04  
 Operator : MJB  
 Sample : A9I0890-17RE1@5  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:10:11 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.624min 2.941 ng/mL (m) P-02  
 response 322554

*MJB  
12/13/19*

(29) 2,4'-DDT #2

8.467min 3.162 ng/mL P-01  
 response 563936

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 13:04  
 Operator : MJB  
 Sample : A9I0890-17RE1@5  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:10:11 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/13/19*

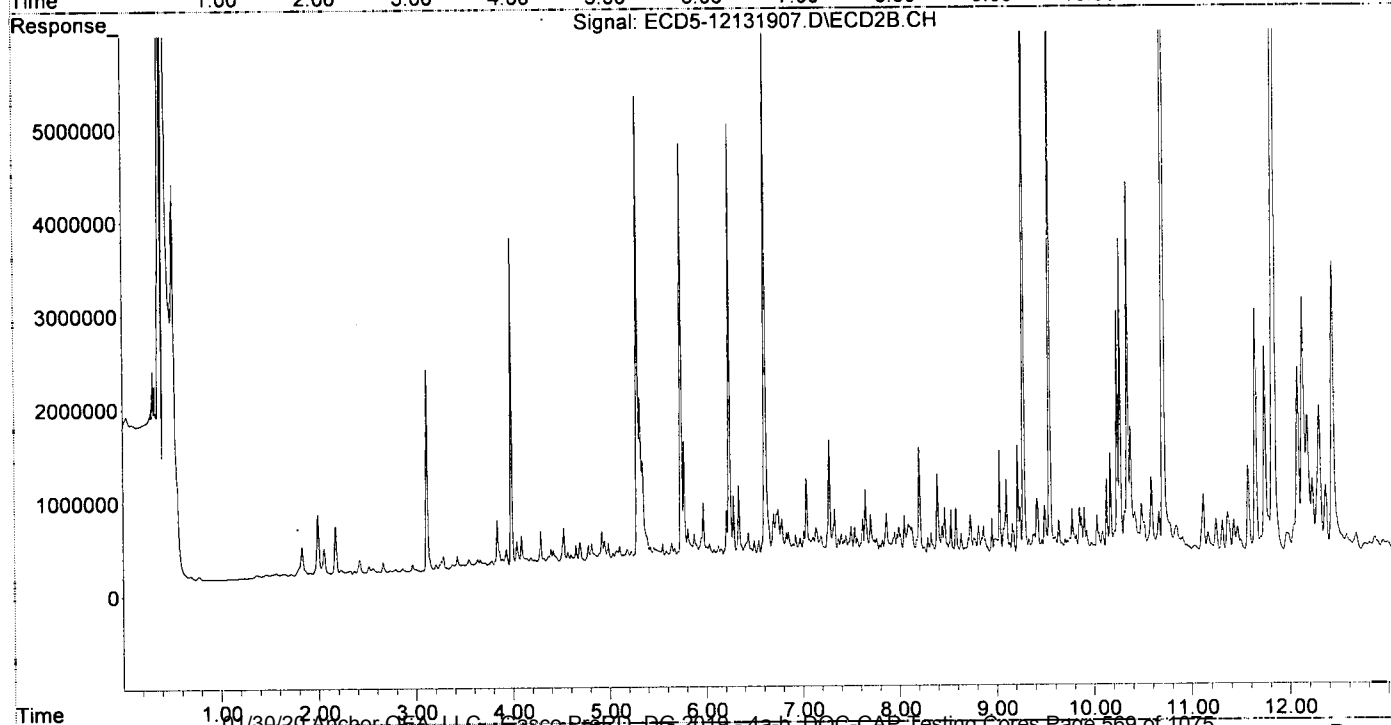
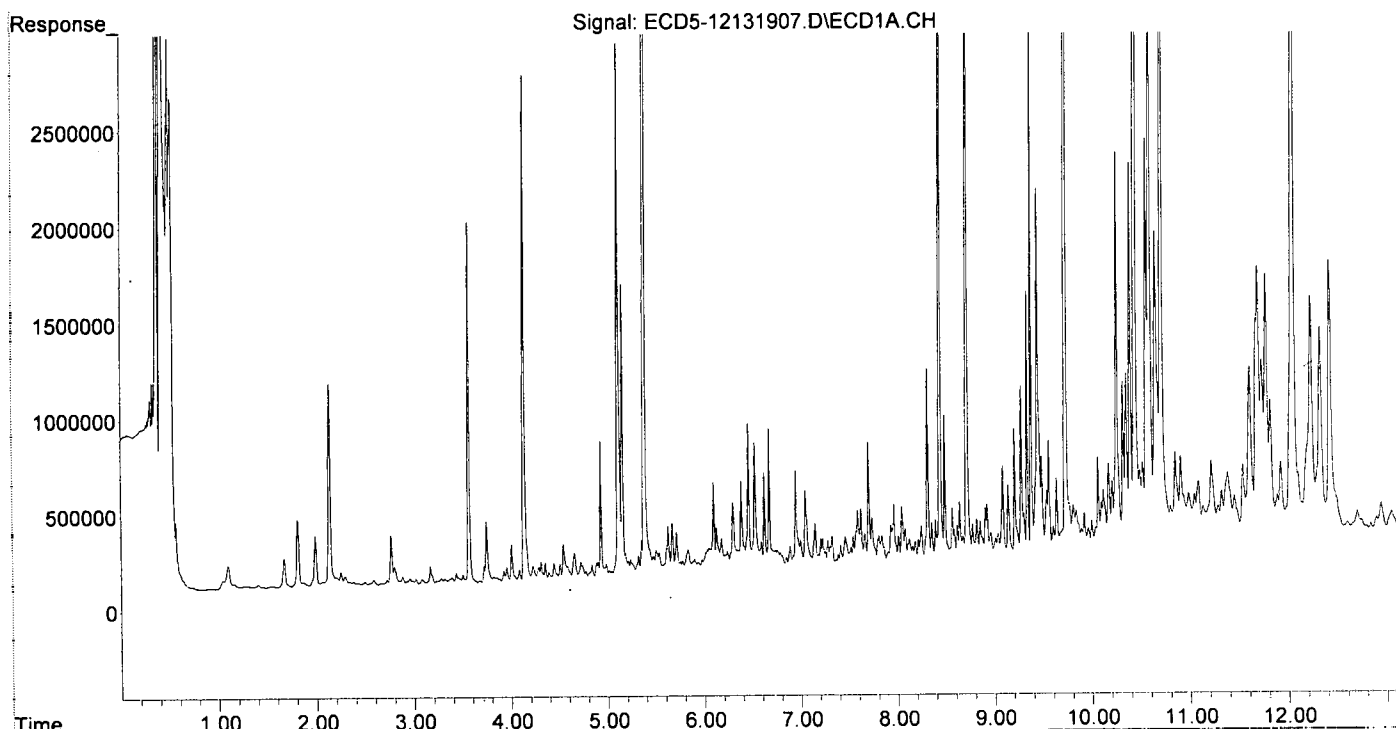
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.154	5.742	1729078	4533457	10.418	15.453 #
22) S DCBP (S)	9.338	10.241	1836465	2629663	13.015	14.628
<b>Target Compounds</b>						
2) a-BHC	5.668f	6.338	506430	855650	2.208	2.085
3) g-BHC	5.976	6.699f	325656	548444	1.614	1.538
4) b-BHC	6.046	6.730	387796	544718	4.291	3.442
5) Heptachlor	6.384	7.039	744545	912176	4.107	2.981
6) d-BHC	6.179	6.973	443751	284824	2.256	0.808 #
7) Aldrin	6.622	7.277	797232	1327615	4.038	4.030
8) Heptachlo...	7.048f	7.744	715910	240458	3.887	0.799 #
9) trans-Chl...	7.183	7.867	397732	520176	2.130	1.660
10) cis-Chlor...	7.278	7.975	467372	299069	2.567	1.027 #
11) Endosulfa...	7.385f	8.012	398813	299259	2.343	1.088 #
12) 4,4'-DDE	7.323	8.093	490187	402773	2.600	1.296 #
13) Dieldrin	7.541	8.206	497217	1221964	2.590	4.018 #
14) Endrin	7.701	8.442	988722	370525	6.725	1.641 #
15) 4,4'-DDD	7.736f	8.494	600764	180057	3.823	0.703 #
16) Endosulfa...	7.839	8.584	509069	562148	3.545	2.438
17) 4,4'-DDT	7.963	8.731	676248	484518	5.656	2.774 #
18) Endrin Al...	8.155	8.848	465362	233161	2.970	0.427 #
19) Endosulfa...	8.440	9.034	5825243	1168348	37.588	4.691 #
20) Methoxychlor	8.311	9.220	1399554	1212142	23.894	14.419
21) Endrin Ke...	8.642	9.416	714139	638796	4.282	2.483 #
23) Hexachlor...	2.955	3.425f	128557	183838	0.704	0.489
24) Hexachlor...	5.531	6.212	349155	594267	1.981	1.892
25) Oxychlordane	6.997	7.650	461413	778413	2.804	2.842
26) 2,4'-DDE	0.000	7.867	0	520176	N.D.	2.452 #
27) trans-Non...	7.251	7.951	411161	316617	1.979	1.050 #
28) 2,4'-DDD	7.460	8.258	493779	151424	4.327	0.802 #
29) 2,4'-DDT	7.623	8.467	646168	563936	5.891	3.162 #
30) cis-Nonac...	7.736	8.494	600764	180057	2.894	0.537 #
31) Mirex	8.393	9.390	613212	260666	4.891	1.401 #
32) Chlordane...	7.226	7.951	476511	316617	24.201	8.750 #
33) Chlordane...	7.323	8.051	490187	491452	19.557	16.185
34) Chlordane...	7.839f	8.691	509069	130394	88.057	14.543 #
35) Chlordane...	3.434	3.425	172304	183838	NoCal	NoCal
36) Toxaphene...	7.303	8.258	437510	151424	488.485	57.701 #
37) Toxaphene...	7.589	8.636	632912	287239	391.911	87.280 #
38) Toxaphene...	7.903	8.636	427479	287239	126.943	56.673 #
39) Toxaphene...	8.155	8.710	465362	240975	143.623	28.860 #
40) Toxaphene...	8.353	8.885	597207	221951	249.133	47.625 #
41) Toxaphene...	8.440	9.281	5825243	10328526	1840.762	2174.334
42) Toxaphene...	3.434f	3.425	172304	183838	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:04  
Operator : MJB  
Sample : A9I0890-17RE1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131909.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 13:41  
 Operator : MJB  
 Sample : 9120780-MS1(5)  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:10:18 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*R-04*  
*MJB*  
*12/13/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.154	5.742	1898818	5156666	11.440	17.578 #
22) S DCBP (S)	9.336	10.240	1942160	3132744	13.765	17.427
<b>Target Compounds</b>						
2) a-BHC	5.667f	6.338	542899	1067774	2.367	2.602
3) g-BHC	5.975	6.699f	322586	582622	1.599	1.633
4) b-BHC	0.000	6.745	0	663503	N.D.	4.192 #
5) Heptachlor	6.383	7.039	711795	1032832	3.926	3.376
6) d-BHC	6.177	6.972	452376	372917	2.300	1.057 #
7) Aldrin	6.621	7.277	764891	1510841	3.874	4.587
8) Heptachlo...	7.084	7.743	1512455	322315	8.212	1.071 #
9) trans-Chl...	7.147f	7.867	577376	2913403	3.123	9.298 #
10) cis-Chlor...	7.278	7.975	486720	456329	2.673	1.567 #
11) Endosulfa...	7.385f	8.012	388067	378082	2.280	1.374
12) 4,4'-DDE	7.334	8.088	2239678	3630387	11.880 <i>R-01</i>	11.685
13) Dieldrin	7.540	8.238	490196	1852638	2.553	6.091 #
14) Endrin	7.700	8.460	1022578	2101930	6.955	9.308
15) 4,4'-DDD	7.751	8.501	1934572	2583098	12.311	10.082
16) Endosulfa...	7.837	8.583	524857	675718	3.655	2.930
17) 4,4'-DDT	7.949	8.726	1923753	2511413	16.090	14.224 <i>R-02</i>
18) Endrin Al...	8.153	8.847	468787	350124	3.000	1.066 #
19) Endosulfa...	8.439	9.034	6977213	1466412	45.021	5.887 #
20) Methoxychlor	8.311	9.220	1623958	1498778	27.725	17.744
21) Endrin Ke...	8.641	9.414	791662	774124	4.747	3.008
23) Hexachlor...	2.955	3.427f	126384	352800	0.692	0.938
24) Hexachlor...	5.531	6.212	351217	669934	1.992	2.133
25) Oxychlorane	6.996	7.649	461111	937750	2.802 <i>MAL</i>	3.424
26) 2,4'-DDE	7.084	7.867	1512455	2913403	11.792 <i>MAL</i>	13.734
27) trans-Non...	7.278	7.951	486720	430625	2.400	1.428 #
28) 2,4'-DDD	7.453	8.238	1467225	1852638	12.856	9.809 <i>MAL</i>
29) 2,4'-DDT	7.635	8.460	1541358	2101930	14.052 <i>R-02</i>	11.786
30) cis-Nonac...	7.751f	8.501	1934572	2583098	9.318	7.700
31) Mirex	8.392	9.390	617474	385633	4.925	2.072 #
32) Chlordane...	7.225	7.951	485498	430625	24.658	11.901 #
33) Chlordane...	7.334	8.052	2239678	597646	89.357	19.683 #
34) Chlordane...	7.837f	8.690	524857	180293	90.788	20.109 #
35) Chlordane...	3.434	3.427	194252	352800	NoCal	NoCal
36) Toxaphene...	7.278f	8.293f	486720	325229	543.428	123.932 #
37) Toxaphene...	7.588	8.636	690462	382188	427.547	116.130 #
38) Toxaphene...	0.000	8.636	0	382188	N.D.	75.407 #
39) Toxaphene...	8.153	8.726	468787	2511413	144.680	300.774 #
40) Toxaphene...	8.352	8.884	651283	295225	271.692	63.348 #
41) Toxaphene...	8.439	9.281	6977213	12848601	2204.781	2704.853
42) Toxaphene...	3.434f	3.427	194252	352800	NoCal	NoCal

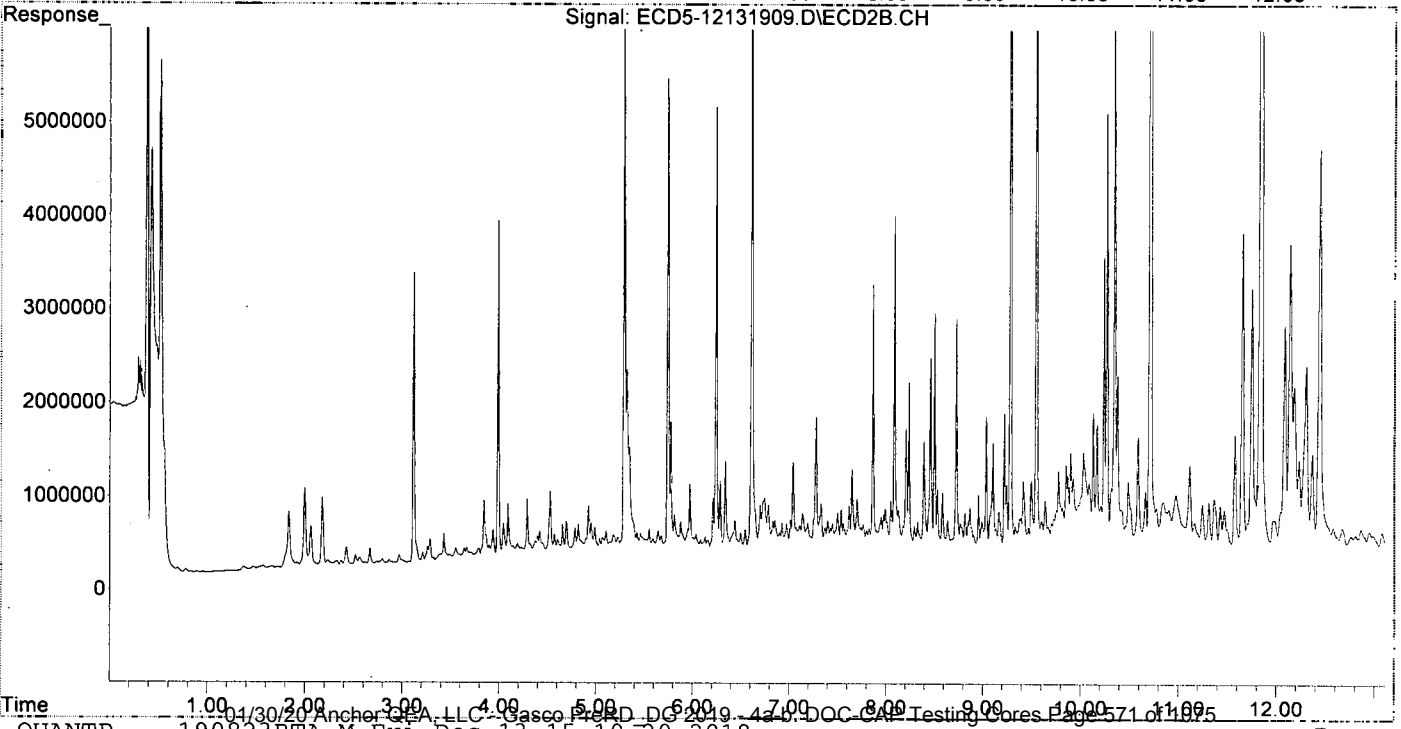
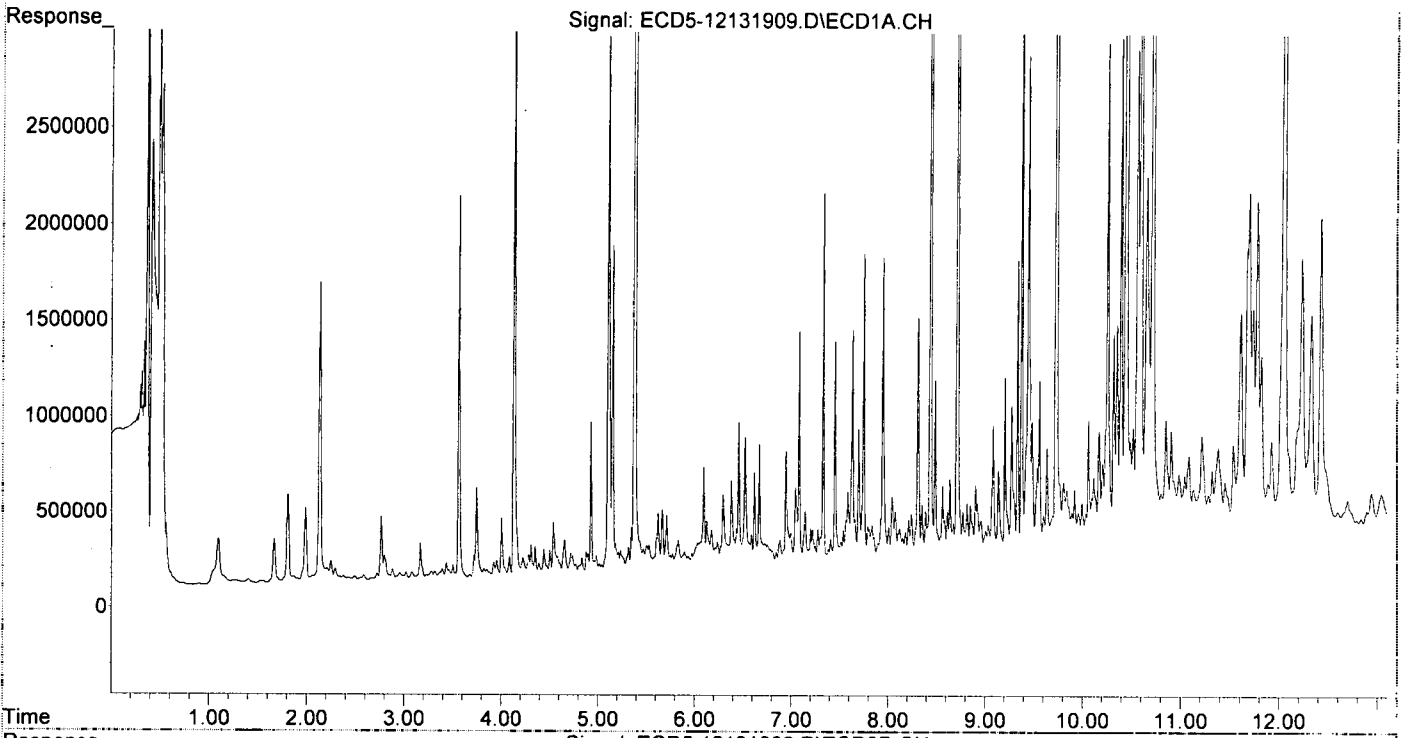
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 13:41  
Operator : MJB  
Sample : 9120780-MS1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:18 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131911.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 14:19  
 Operator : MJB  
 Sample : 9120780-MSD125  
 Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:10:26 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*R-04*  
 MJB  
 12/13/19

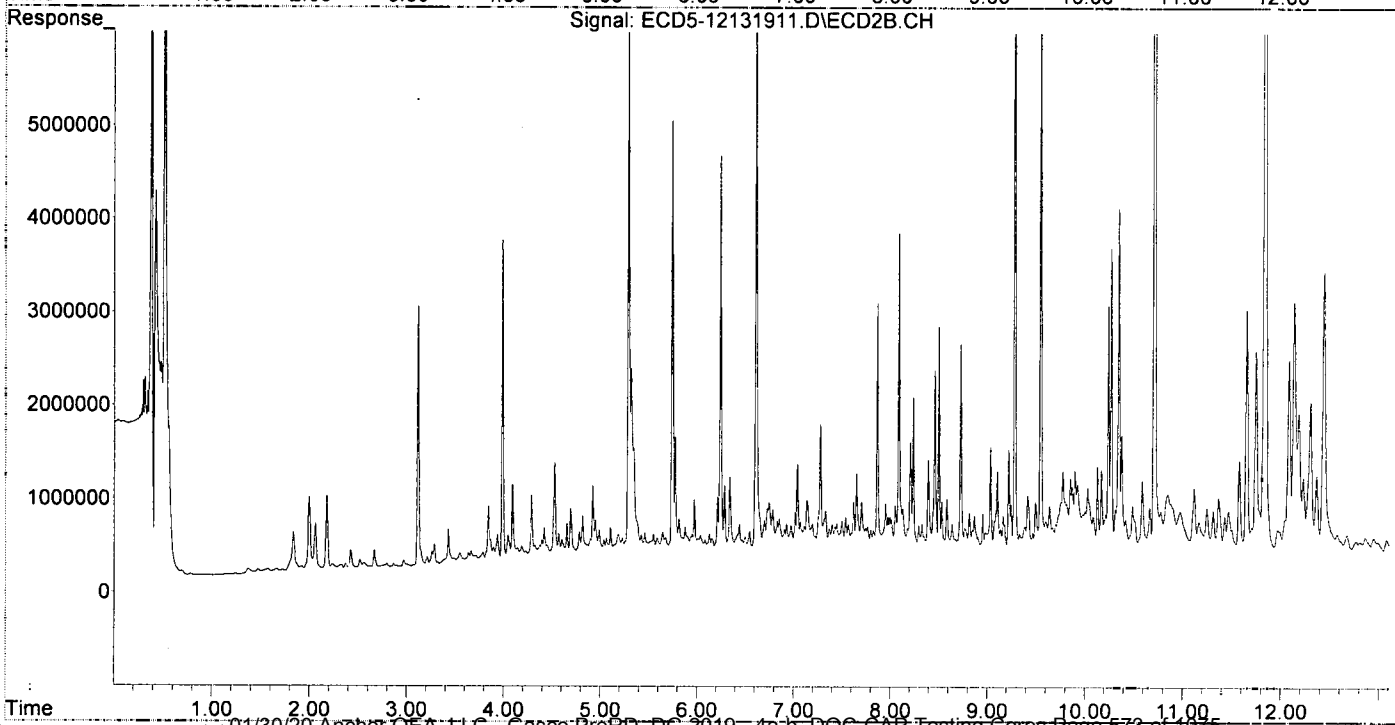
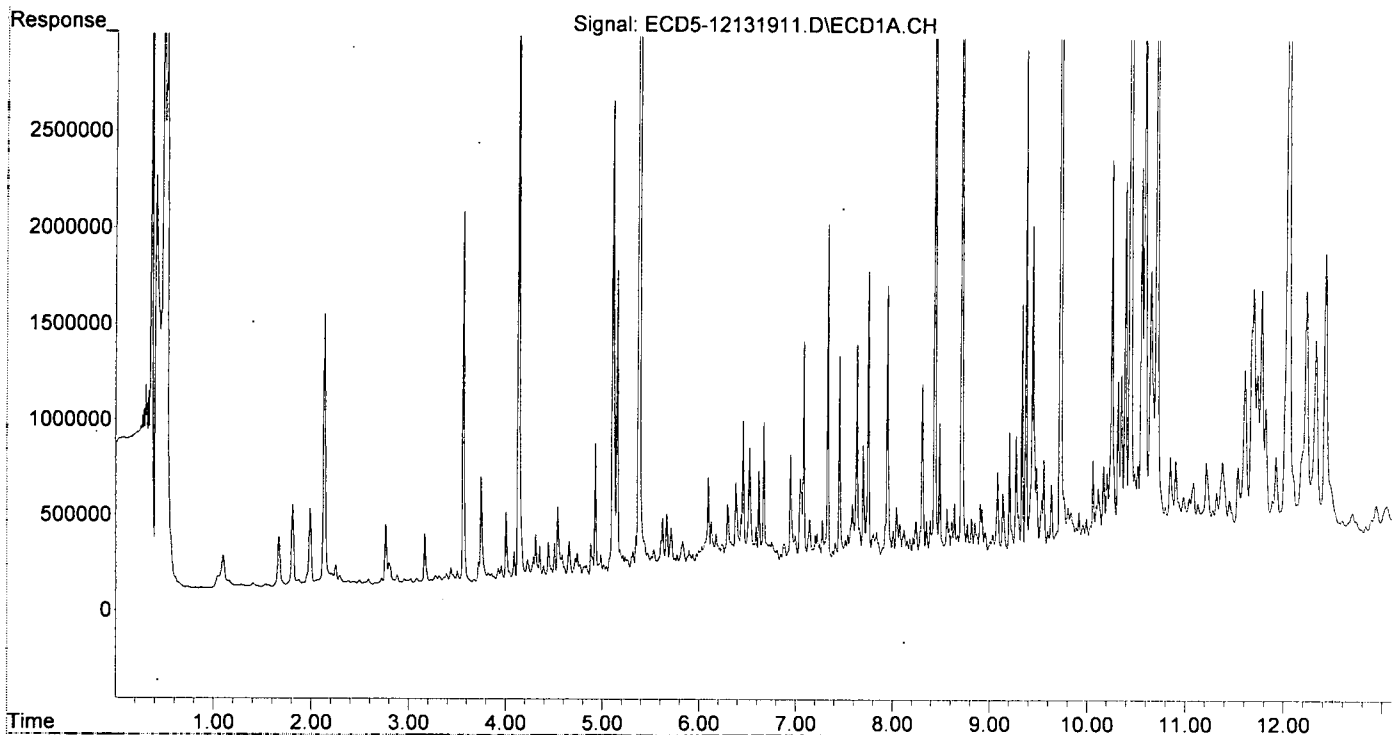
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.153	5.741	1791669	4753534	10.795	16.203 #
22) S DCBP (S)	9.336	10.239	1744791	2670895	12.366	14.858
<b>Target Compounds</b>						
2) a-BHC	5.712f	6.338	462696	929389	2.018	2.265
3) g-BHC	5.935f	6.696f	334390	458784	1.657	1.286
4) b-BHC	6.029f	6.727	379459	588040	4.198	3.716
5) Heptachlor	6.382	7.038	724707	1045813	3.997	3.418
6) d-BHC	6.178	6.972	447531	398948	2.275	1.131 #
7) Aldrin	6.620	7.276	785964	1478113	3.981	4.487
8) Heptachlo...	7.083	7.743	1474859	358686	8.008	1.192 #
9) trans-Chl...	7.145f	7.866	553570	2747216	2.994	8.768 #
10) cis-Chlor...	7.277	7.974	551815	465769	3.031	1.599 #
11) Endosulfa...	7.385f	8.011	398226	440704	2.340	1.602
12) 4,4'-DDE	7.333	8.087	2091476	3492920	11.094 <i>RPT</i>	11.243
13) Dieldrin	7.540	8.236	487177	1730791	2.538	5.691 #
14) Endrin	7.699	8.458	958388	2014084	6.518	8.919
15) 4,4'-DDD	7.751	8.500	1866117	2480232	11.875	9.680
16) Endosulfa...	7.838	8.583	507572	641834	3.534	2.783
17) 4,4'-DDT	7.949	8.724	1796396	2289182	15.025	12.992 <i>R-02</i>
18) Endrin Al...	8.152	8.846	473257	314757	3.038	0.873 #
19) Endosulfa...	8.438	9.032	5648175	1188201	36.445	4.770 #
20) Methoxychlor	8.310	9.219	1295195	1154273	22.112	13.742
21) Endrin Ke...	8.640	9.414	681741	656219	4.088	2.550
23) Hexachlor...	2.954	3.426f	113632	434985	0.622	1.157 #
24) Hexachlor...	5.532	6.212	346106	711935	1.963	2.267
25) Oxychlorane	6.995	7.650	463836	931003	2.819 <i>MJB</i>	3.399
26) 2,4'-DDE	7.083	7.866	1474859	2747216	11.499 <i>MJB</i>	12.950
27) trans-Non...	7.248	7.951	426992	609914	2.067	2.022
28) 2,4'-DDD	7.453	8.236	1411579	1730791	12.369	9.164 <i>MJB</i>
29) 2,4'-DDT	7.634	8.458	1484423	2014084	13.533 <i>R-02</i>	11.294
30) cis-Nonac...	7.751f	8.500	1866117	2480232	8.988	7.394
31) Mirex	8.391	9.387	583505	332239	4.654	1.786 #
32) Chlordane...	7.224	7.951	480829	609914	24.420	16.856
33) Chlordane...	7.333	8.051	2091476	588847	83.444	19.393 #
34) Chlordane...	7.838f	8.724f	507572	2289182	87.798	255.322 #
35) Chlordane...	3.433	3.426	185421	434985	NoCal	NoCal
36) Toxaphene...	7.277f	8.293f	551815	367738	616.107	140.130 #
37) Toxaphene...	7.587	8.635	643542	376734	398.493	114.473 #
38) Toxaphene...	0.000	8.663	0	217978	N.D.	43.008 #
39) Toxaphene...	8.152	8.724	473257	2289182	146.060	274.159 #
40) Toxaphene...	8.352	8.904	580987	233681	242.367	50.142 #
41) Toxaphene...	8.438	9.280	5648175	9641399	1784.809	2029.682
42) Toxaphene...	3.433f	3.426	185421	434985	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131911.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 14:19  
Operator : MJB  
Sample : 9120780-MSD1@5  
Misc : 5x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:10:26 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 14:57  
 Operator : MJB  
 Sample : A9I0890-18RE102  
 Misc : 2x, 8081B 2,4,4,4-DDx Only, GPC  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:31:28 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

R-04

MJB  
12/13/19

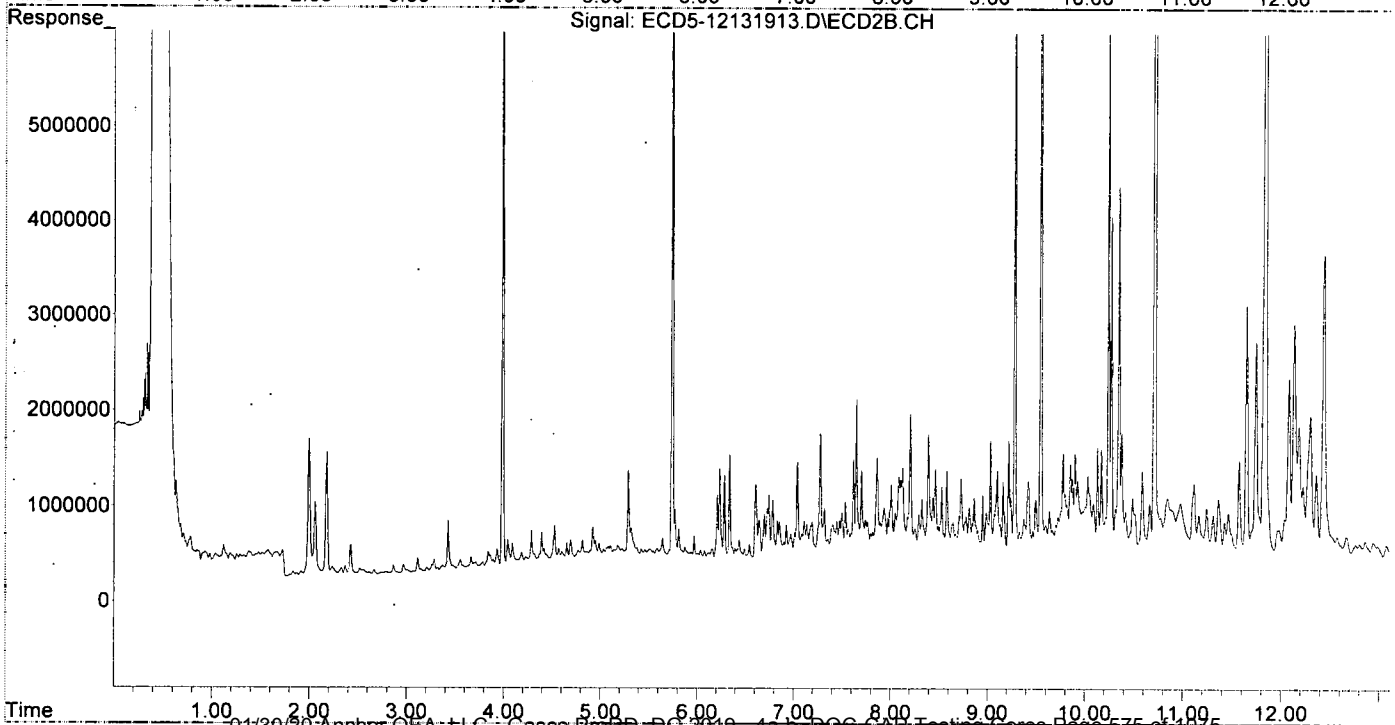
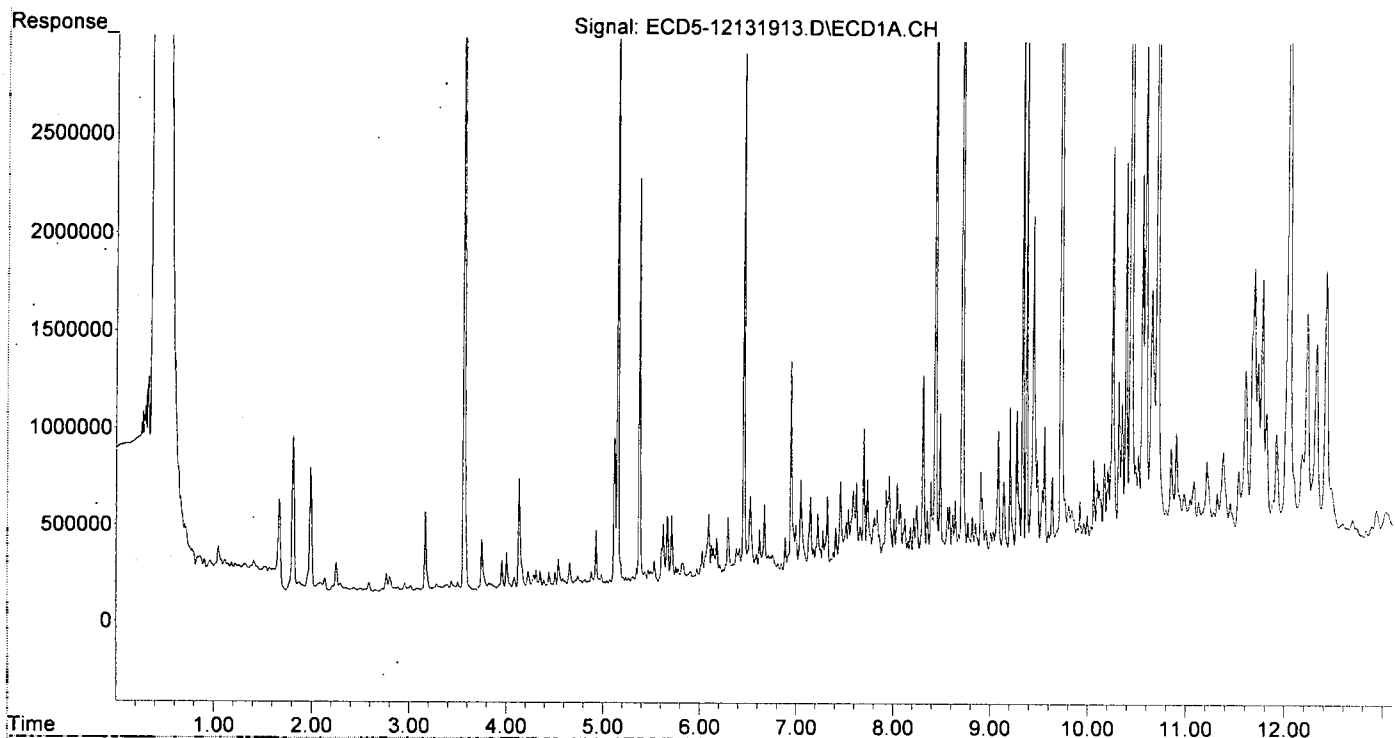
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.153	5.740	3483366	8311656	20.987	28.332
22) S DCBP (S)	9.336	10.240	3779432	6986447	26.786	38.865 #
Target Compounds						
2) a-BHC	5.712f	6.337	486990	1726812	2.124	4.208 #
3) g-BHC	5.973	6.643f	218087	1078006	1.081	3.022 #
4) b-BHC	6.028f	6.726	313330	1209281	3.467	7.641 #
5) Heptachlor	6.383	7.038	335612	1721510	1.851	5.626 #
6) d-BHC	6.210	6.972	246123	967870	1.251	2.744 #
7) Aldrin	6.621	7.276	440211	2052024	2.230	6.230 #
8) Heptachlo...	7.047f	7.743	712789	1191111	3.870	3.959
9) trans-Chl...	7.181	7.864	359344	1846802	1.944	5.894 #
10) cis-Chlor...	7.277	7.974	457603	1237174	2.513	4.248 #
11) Endosulfa...	7.383f	8.011	348368	1590969	2.047	5.782 #
12) 4,4'-DDE	7.328	8.090	523195	1675744	2.775m	5.394 #
13) Dieldrin	7.540	8.206	576750	2345121	3.004	7.710 #
14) Endrin	7.699	8.441	998875	1502001	6.794	6.651
15) 4,4'-DDD	7.748	8.511	531673	1195615	3.383m	4.666m
16) Endosulfa...	7.838	8.584	583955	1787189	4.066	7.750 #
17) 4,4'-DDT	7.960	8.729	762212	1719162	6.375m	9.806 #
18) Endrin Al...	8.155	8.845	428891	1266059	2.658	6.039 #
19) Endosulfa...	8.438	9.033	4732247	2143813	30.535	8.607 #
20) Methoxychlor	8.311	9.218	1286508	2172812	21.964	25.391
21) Endrin Ke...	8.641	9.421	656888	1759915	3.939	6.840 #
23) Hexachlor...	2.954	3.426f	54931	756703	0.301	2.013 #
24) Hexachlor...	5.531	6.211	247404	1300597	1.403	4.141 #
25) Oxychlorane	6.997	7.649	475211	2444031	2.888	8.923 #
26) 2,4'-DDE	7.078	7.864	331669	1846802	2.586m	8.706 #
27) trans-Non...	7.277	7.935	457603	1337431	2.238	4.434 #
28) 2,4'-DDD	7.458	8.250	718758	1136179	6.298	6.016m
29) 2,4'-DDT	7.628	8.465	581214	1796835	5.299m	10.075 #
30) cis-Nonac...	7.736	8.494	734157	1198937	3.536	3.574
31) Mirex	8.392	9.421f	743676	1759915	5.932	9.458 #
32) Chlordane...	7.224	7.935	539428	1337431	27.397	36.961
33) Chlordane...	7.322	8.053	635030	1295186	25.336	42.655 #
34) Chlordane...	7.838f	8.709	583955	1330922	101.011	148.443 #
35) Chlordane...	3.434	3.426	79966	756703	NoCal	NoCal
36) Toxaphene...	7.322f	8.253	635030	1146585	709.018	436.918
37) Toxaphene...	7.589	8.635	674721	1237331	417.800	375.971
38) Toxaphene...	7.929f	8.648	688335	1257130	204.406	248.037
39) Toxaphene...	8.155	8.709	428891	1330922	132.368	159.395
40) Toxaphene...	8.353	8.904	596685	1195103	248.915	256.440
41) Toxaphene...	8.438	9.280	4732247	9428642	1495.378	1984.893
42) Toxaphene...	3.434f	3.426	79966	756703	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 14:57  
Operator : MJB  
Sample : A9I0890-18RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

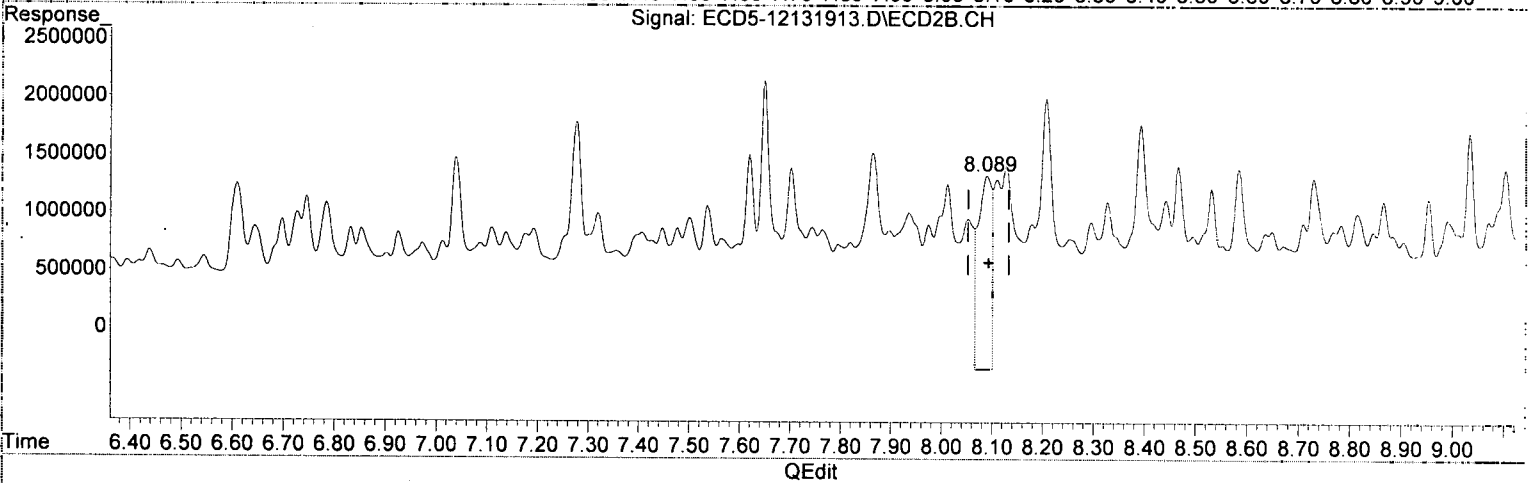
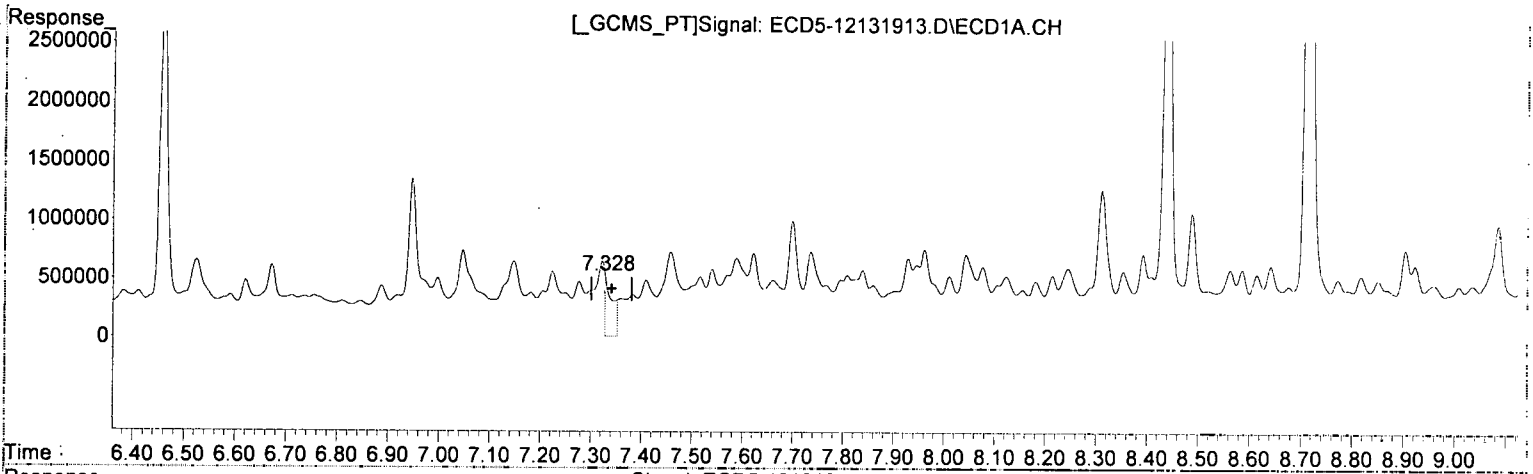
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:31:28 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 14:57  
 Operator : MJB  
 Sample : A9I0890-18RE1@2  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:27:31 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.328min 2.775 ng/mL *P-02*  
 response 523195

*MJB 12/13/19*

(12) 4,4'-DDE #2

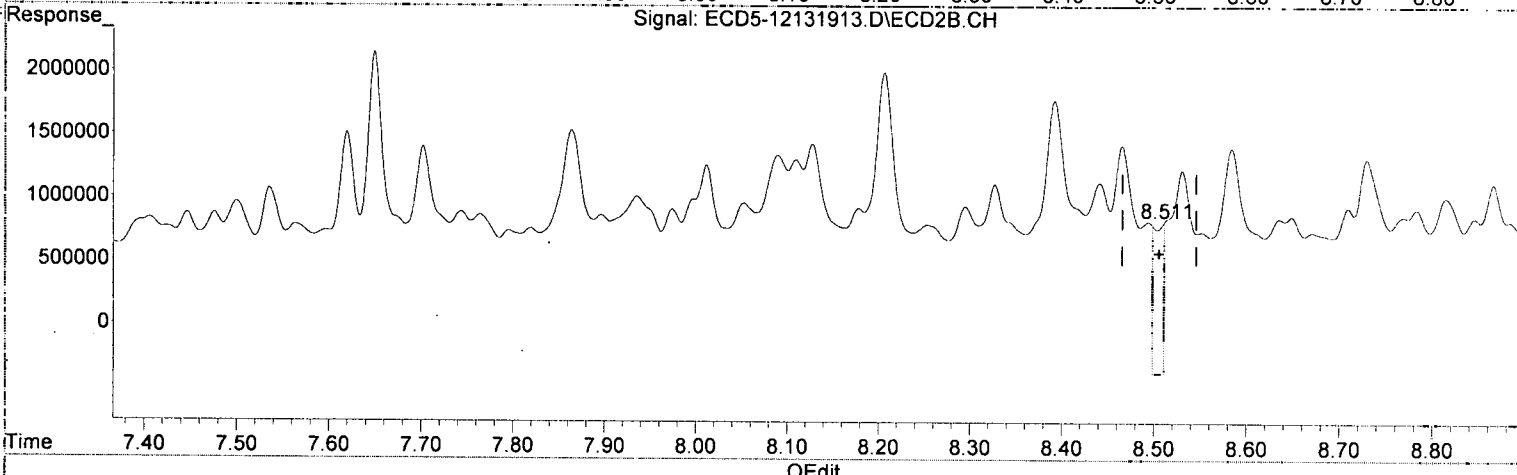
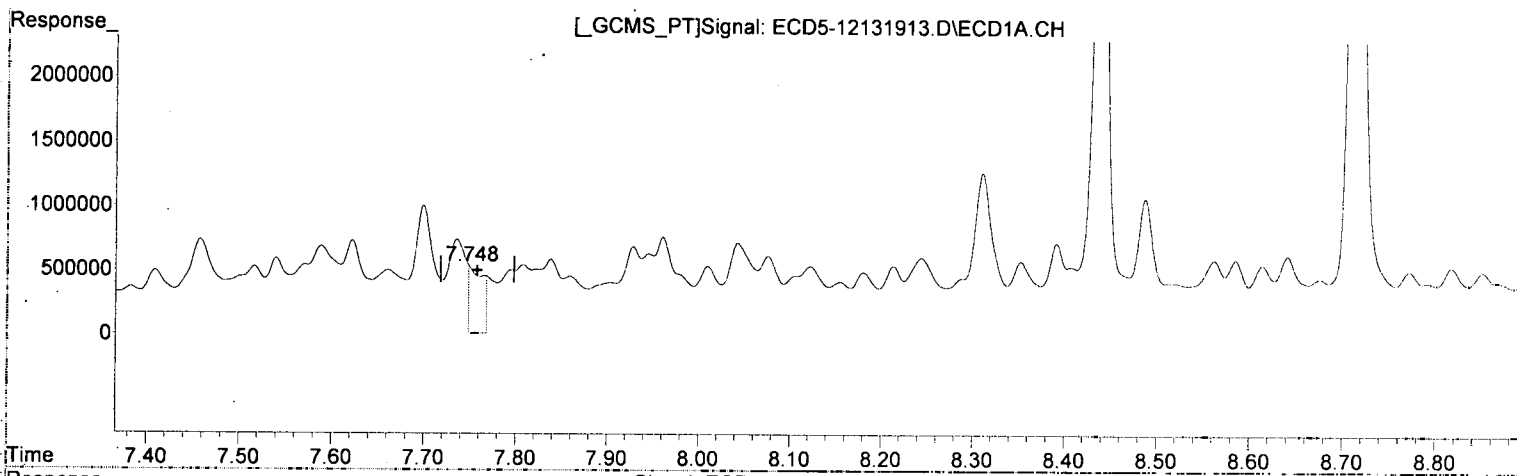
8.090min 5.394 ng/mL *P-01*  
 response 1675744

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 14:57  
Operator : MJB  
Sample : A9I0890-18RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:27:31 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD

7.748min 3.383 ng/mL (+) *2.02*  
response 531673

*MJB 12/13/19*

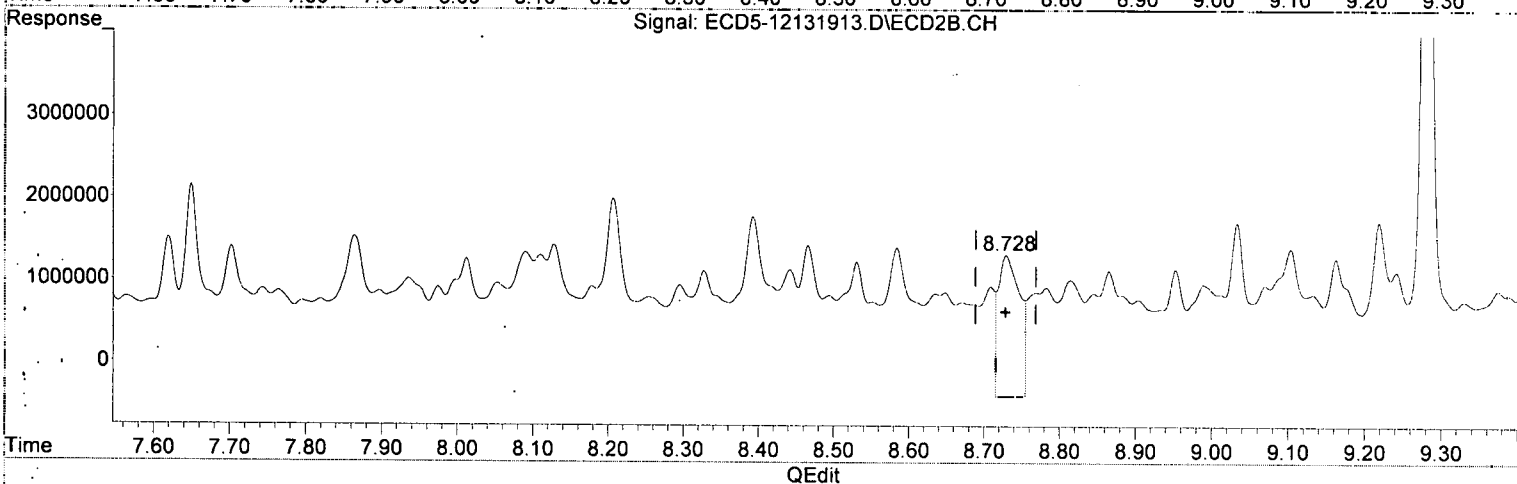
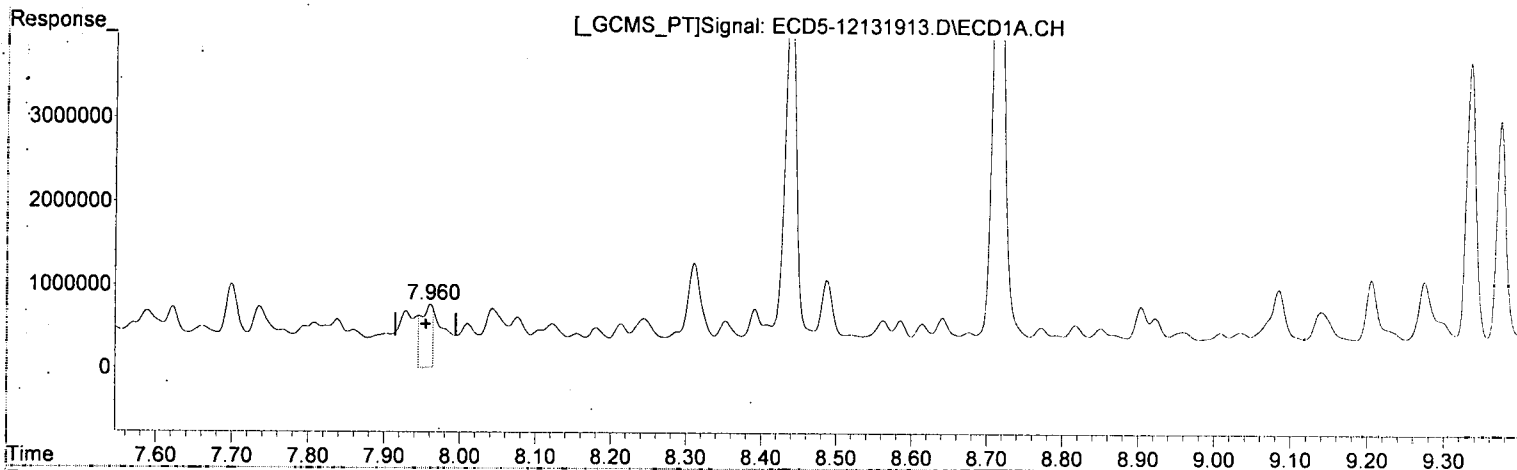
(15) 4,4'-DDD #2

8.511min 4.666 ng/mL (+) *2.01*  
response 1195615

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 14:57  
Operator : MJB  
Sample : A9I0890-18RE102  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:27:31 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

7.960min 6.375 ng/mL (P-02)  
response 762212

MJB 12/13/19

(17) 4,4'-DDT #2

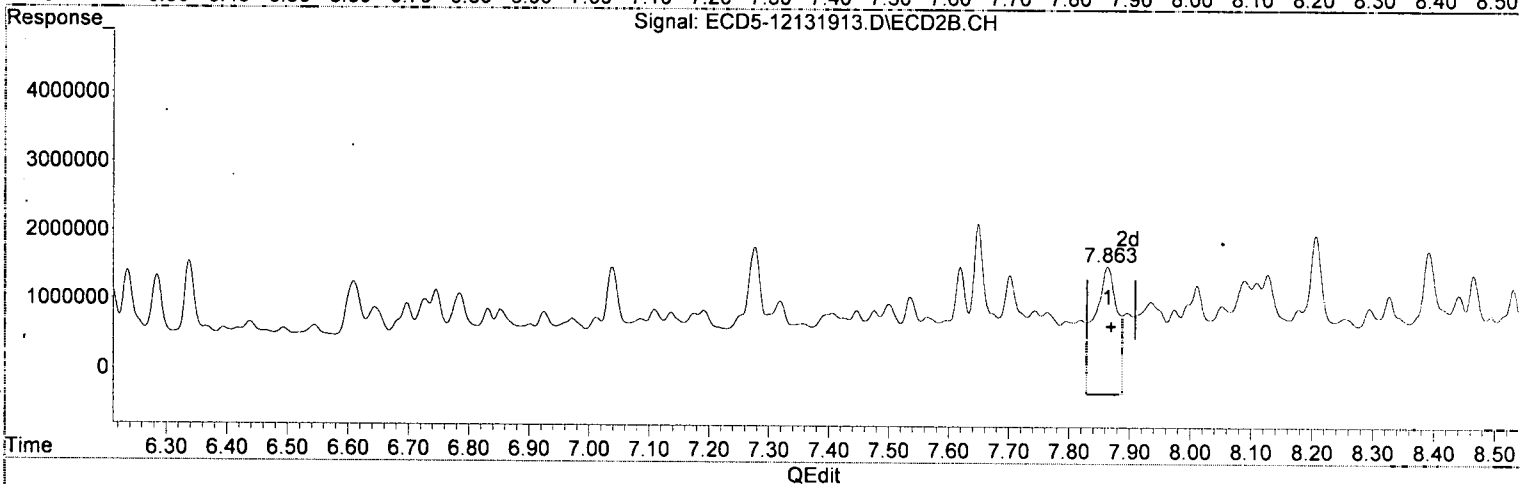
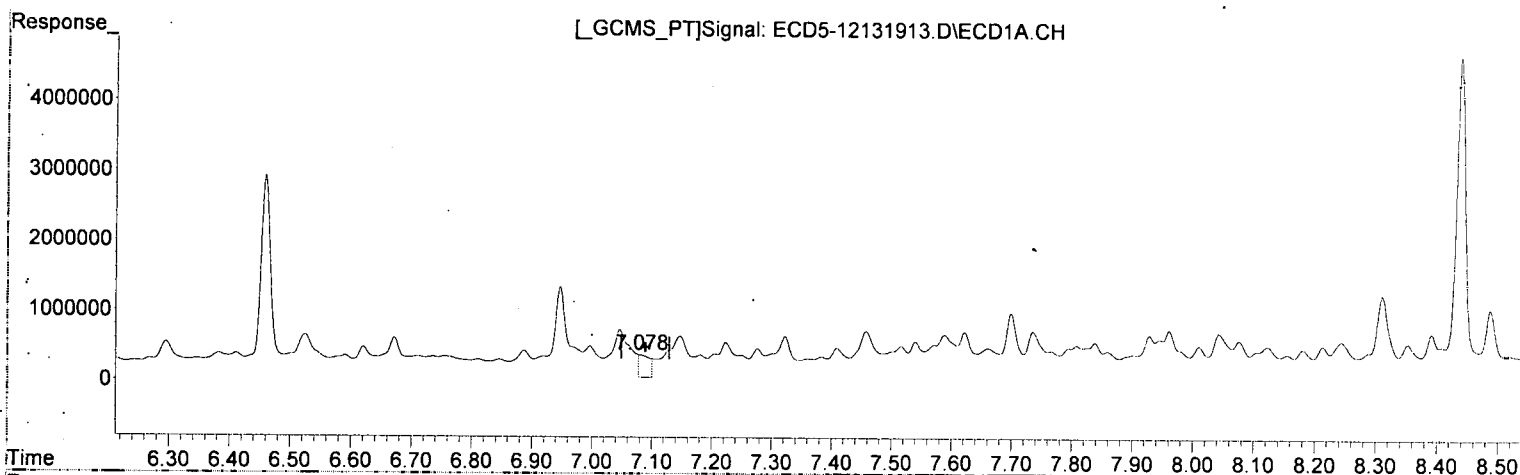
8.729min 9.806 ng/mL (P-01)  
response 1719162



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 14:57  
Operator : MJB  
Sample : A9I0890-18RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:27:31 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE

7.078min 2.586 ng/mL (m) R.02  
response 331669

MJB 12/13/19

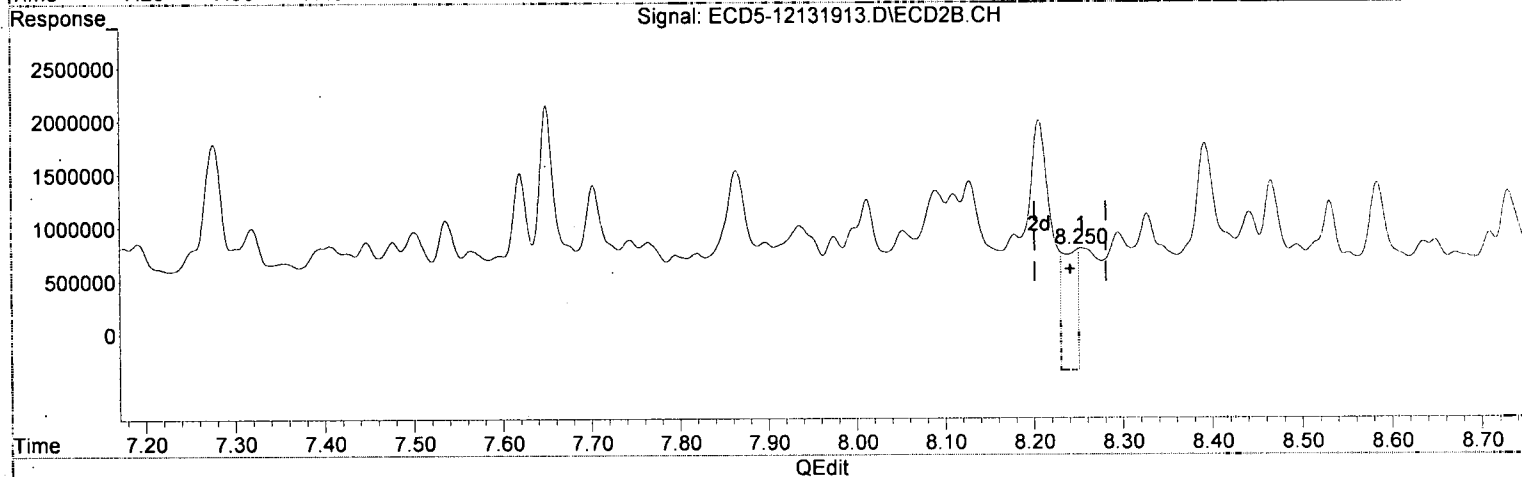
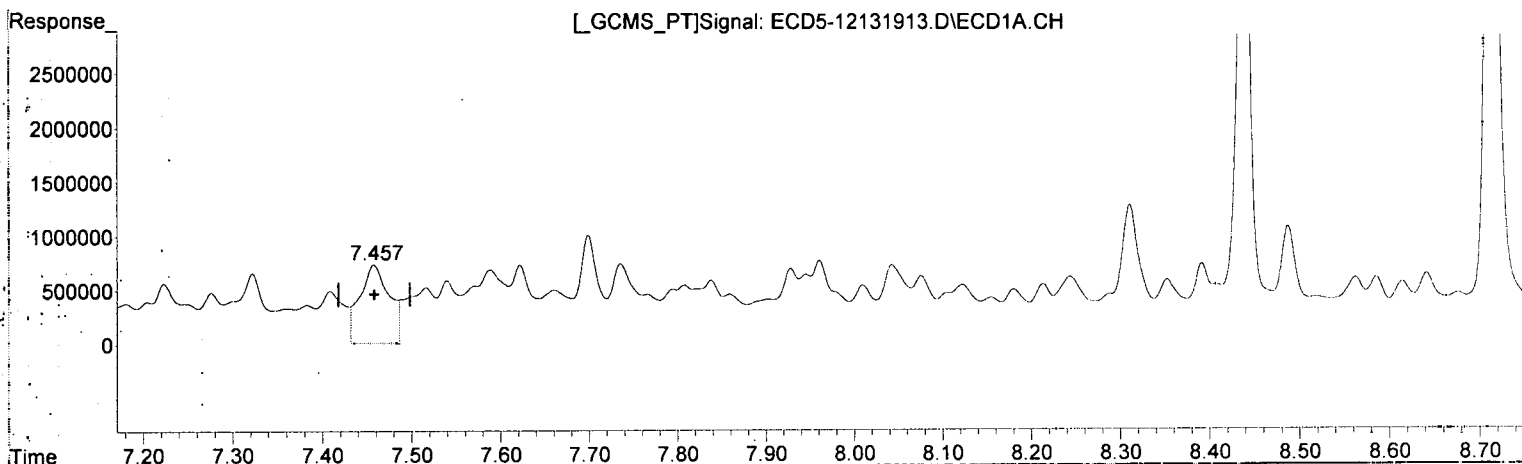
(26) 2,4'-DDE #2

7.864min 8.706 ng/mL P-01  
response 1846802

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 14:57  
 Operator : MJB  
 Sample : A9I0890-18RE1@2  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:27:31 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD  
 7.458min 6.298 ng/mL  
 response 718758

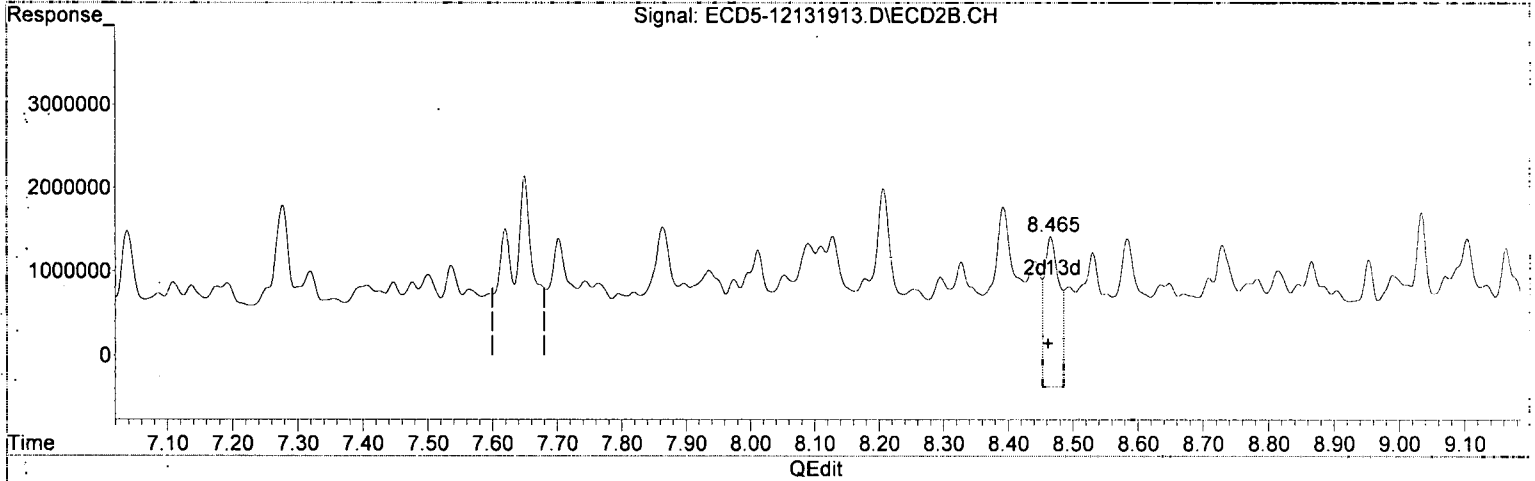
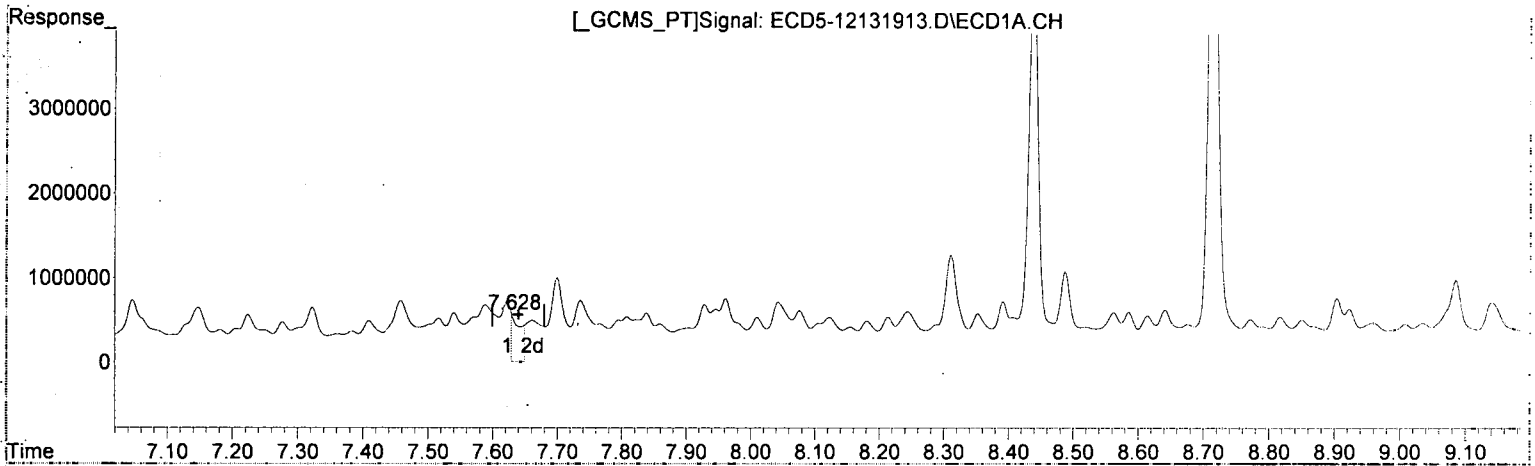
*MJB 12/13/19*

(28) 2,4'-DDD #2  
 8.250min 6.016 ng/mL *(m) R-02*  
 response 1136179

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 14:57  
 Operator : MJB  
 Sample : A9I0890-18RE1@2  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:27:31 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT

7.628min 5.299 ng/mL (m) R-02  
 response 581214

*MJB 12/13/19*

(29) 2,4'-DDT #2

8.465min 10.075 ng/mL P-01  
 response 1796835

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 14:57  
 Operator : MJB  
 Sample : A9I0890-18RE1@2  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 15:27:31 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

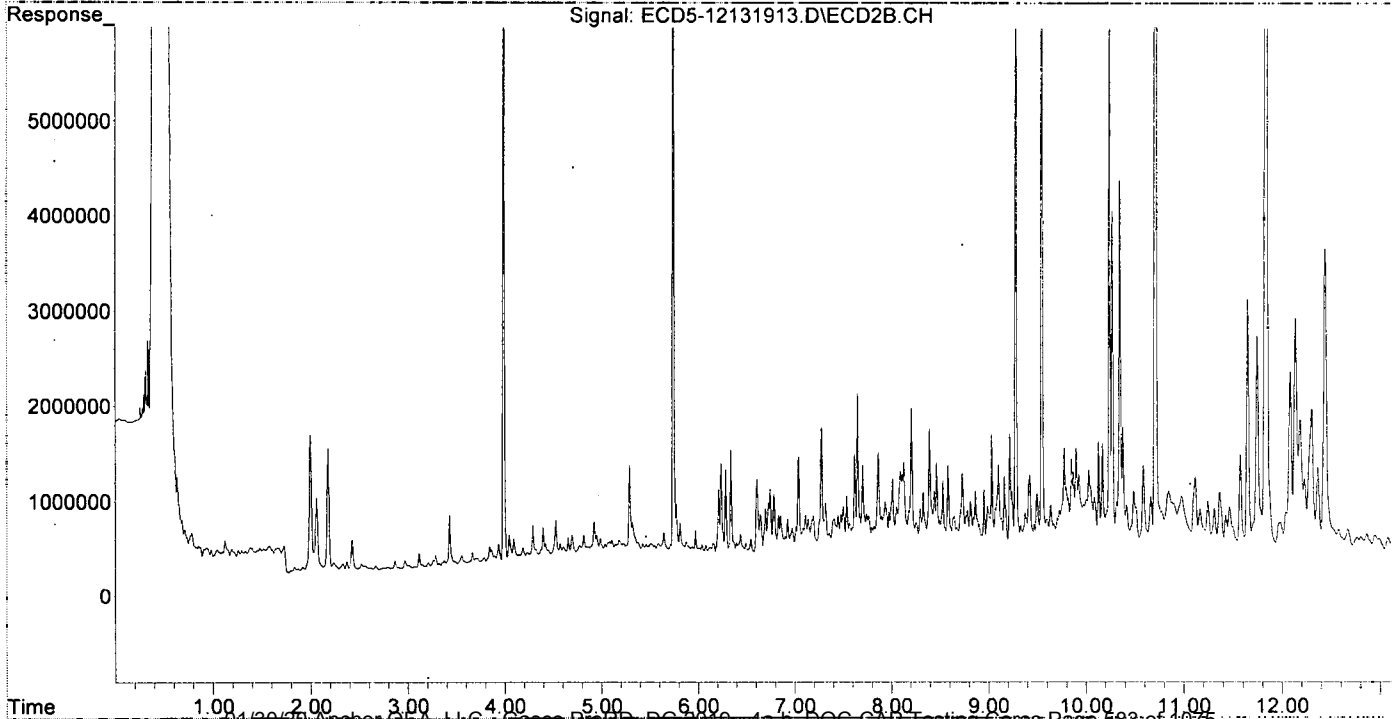
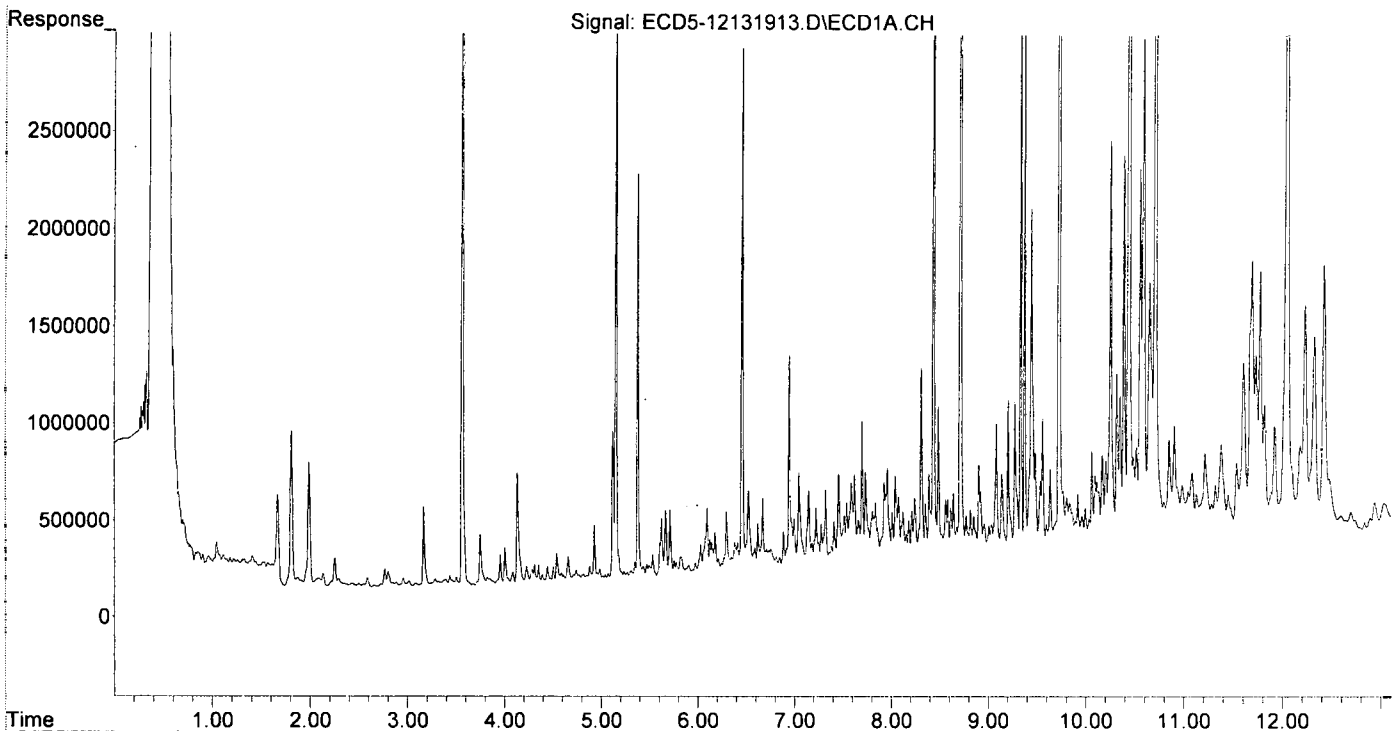
*MI*  
*WB*  
*12/13/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.153	5.740	3483366	8311656	20.987	28.332
22) S DCBP (S)	9.336	10.240	3779432	6986447	26.786	38.865 #
<b>Target Compounds</b>						
2) a-BHC	5.712f	6.337	486990	1726812	2.124	4.208 #
3) g-BHC	5.973	6.643f	218087	1078006	1.081	3.022 #
4) b-BHC	6.028f	6.726	313330	1209281	3.467	7.641 #
5) Heptachlor	6.383	7.038	335612	1721510	1.851	5.626 #
6) d-BHC	6.210	6.972	246123	967870	1.251	2.744 #
7) Aldrin	6.621	7.276	440211	2052024	2.230	6.230 #
8) Heptachlo...	7.047f	7.743	712789	1191111	3.870	3.959 #
9) trans-Chl...	7.181	7.864	359344	1846802	1.944	5.894 #
10) cis-Chlor...	7.277	7.974	457603	1237174	2.513	4.248 #
11) Endosulfa...	7.383f	8.011	348368	1590969	2.047	5.782 #
12) 4,4'-DDE	7.322	8.090	635030	1675744	3.368	5.394 #
13) Dieldrin	7.540	8.206	576750	2345121	3.004	7.710 #
14) Endrin	7.699	8.441	998875	1502001	6.794	6.651 #
15) 4,4'-DDD	7.736f	8.494	734157	1198937	4.672	4.679 #
16) Endosulfa...	7.838	8.584	583955	1787189	4.066	7.750 #
17) 4,4'-DDT	7.961	8.729	766705	1719162	6.413	9.806 #
18) Endrin Al...	8.155	8.845	428891	1266059	2.658	6.039 #
19) Endosulfa...	8.438	9.033	4732247	2143813	30.535	8.607 #
20) Methoxychlor	8.311	9.218	1286508	2172812	21.964	25.391 #
21) Endrin Ke...	8.641	9.421	656888	1759915	3.939	6.840 #
23) Hexachlor...	2.954	3.426f	54931	756703	0.301	2.013 #
24) Hexachlor...	5.531	6.211	247404	1300597	1.403	4.141 #
25) Oxychlorane	6.997	7.649	475211	2444031	2.888	8.923 #
26) 2,4'-DDE	0.000	7.864	0	1846802	N.D.	8.706 #
27) trans-Non...	7.277	7.935	457603	1337431	2.238	4.434 #
28) 2,4'-DDD	7.458	8.253	718758	1146585	6.298	6.071 #
29) 2,4'-DDT	7.622	8.465	720260	1796835	6.566	10.075 #
30) cis-Nonac...	7.736	8.494	734157	1198937	3.536	3.574 #
31) Mirex	8.392	9.421f	743676	1759915	5.932	9.458 #
32) Chlordane...	7.224	7.935	539428	1337431	27.397	36.961 #
33) Chlordane...	7.322	8.053	635030	1295186	25.336	42.655 #
34) Chlordane...	7.838f	8.709	583955	1330922	101.011	148.443 #
35) Chlordane...	3.434	3.426	79966	756703	NoCal	NoCal
36) Toxaphene...	7.322f	8.253	635030	1146585	709.018	436.918
37) Toxaphene...	7.589	8.635	674721	1237331	417.800	375.971
38) Toxaphene...	7.929f	8.648	688335	1257130	204.406	248.037
39) Toxaphene...	8.155	8.709	428891	1330922	132.368	159.395
40) Toxaphene...	8.353	8.904	596685	1195103	248.915	256.440
41) Toxaphene...	8.438	9.280	4732247	9428642	1495.378	1984.893
42) Toxaphene...	3.434f	3.426	79966	756703	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 14:57  
Operator : MJB  
Sample : A9I0890-18RE1@2  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 15:27:31 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:29  
 Operator : MJB  
 Sample : 9120734-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:04:45 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

WIP 12/13/19

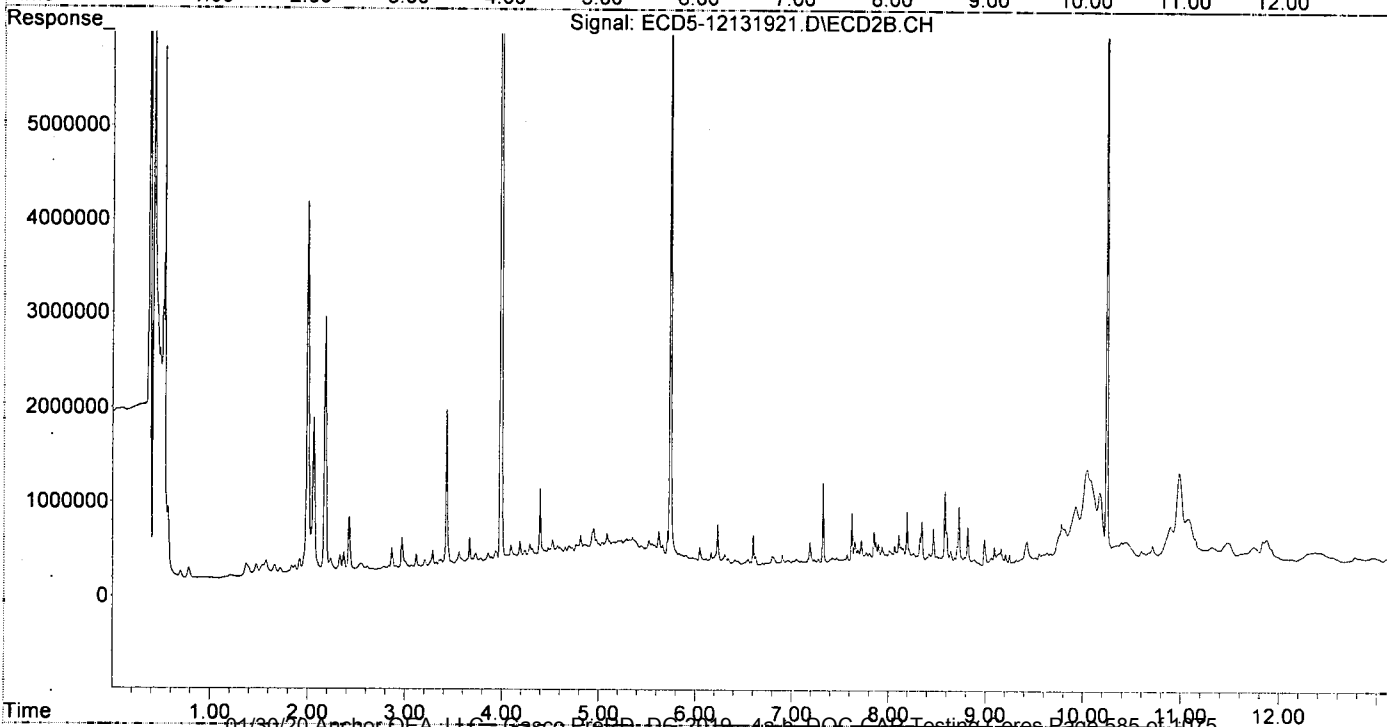
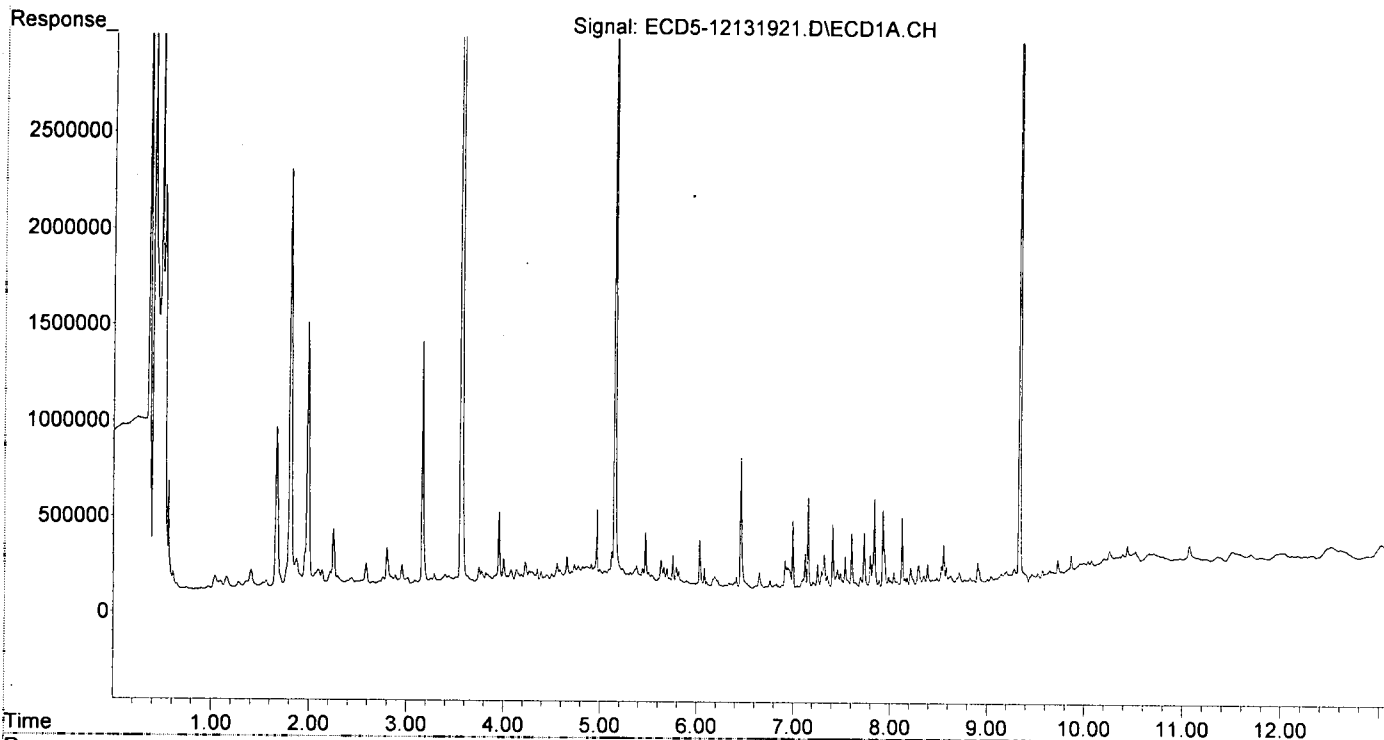
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.152	5.739	4852550	8357425	29.237	28.488
22) S DCBP (S)	9.335	10.239	6952069	9033827	49.271	50.254
Target Compounds						
2) a-BHC	5.692	6.339	341805	124275	1.490	0.303 #
3) g-BHC	0.000	6.694f	0	64292	N.D.	0.180 #
4) b-BHC	6.031	6.727	502137	68750	5.556	0.434 #
5) Heptachlor	6.353f	7.047	294593	99172	1.625	0.324 #
6) d-BHC	6.188	6.958f	321747	93106	1.636	0.264 #
7) Aldrin	6.650f	7.274	366048	102307	1.854	0.311 #
8) Heptachlo...	7.042f	7.720	314846	291165	1.709	0.968 #
9) trans-Chl...	7.154	7.871	783287	271044	4.236	0.865 #
10) cis-Chlor...	7.251	7.974	436923	135850	2.400	0.466 #
11) Endosulfa...	7.354	8.008	383214	175538	2.252	0.638 #
12) 4,4'-DDE	7.331	8.097	108678	190478	0.576m	0.613m
13) Dieldrin	7.538	8.191f	490231	587656	2.554	1.932
14) Endrin	7.696	8.464	393897	398838	2.679	1.766
15) 4,4'-DDD	7.747	8.498	167332	108420	1.065m	0.423 #
16) Endosulfa...	7.840	8.600	809994	365429	5.640	1.585 #
17) 4,4'-DDT	7.944	8.726	188169	636238	1.574m	3.648 # <sup>P-01</sup>
18) Endrin Al...	8.125	8.817	720050	416675	5.147	1.430 #
19) Endosulfa...	8.438	9.056f	415841	84897	2.683	0.341 #
20) Methoxychlor	8.296	9.204	483895	119056	8.261	1.290 #
21) Endrin Ke...	8.626	9.426	444486	247943	2.665	0.964 #
23) Hexachlor...	2.954	3.426f	231553	1752734	1.267	4.662 #
24) Hexachlor...	5.532	6.188	300067	138628	1.702	0.441 #
25) Oxychlordane	6.996	7.651	652996	279740	3.969	1.021 #
26) 2,4'-DDE	7.104	7.871	50242	271044	0.392m	1.278 # <sup>P-01</sup>
27) trans-Non...	7.251	7.933	436923	217674	2.122	0.722 #
28) 2,4'-DDD	7.457	8.249	97977	134107	0.859m	0.710m
29) 2,4'-DDT	7.645	8.464	41865	398838	0.382m	2.236 # <sup>P-01</sup>
30) cis-Nonac...	7.734	8.498	628182	108420	3.026	0.323 #
31) Mirex	8.389	9.426f	493914	247943	3.940	1.333 #
32) Chlordane...	7.205f	7.933	344508	217674	17.497	6.016 #
33) Chlordane...	7.321	8.064f	491140	224472	19.595	7.393 #
34) Chlordane...	7.888f	8.681	386957	95666	66.935	10.670 #
35) Chlordane...	3.435	3.426	194913	1752734	NoCal	NoCal
36) Toxaphene...	7.292	8.260	404078	146052	451.157	55.655 #
37) Toxaphene...	7.605	8.600	615855	365429	381.349	111.038 #
38) Toxaphene...	7.888	8.641	386957	157972	114.910	31.169 #
39) Toxaphene...	8.155	8.726	408696	636238	126.135	76.198 #
40) Toxaphene...	8.350	8.885	430644	70069	179.649	15.035 #
41) Toxaphene...	8.438	9.283	415841	36187	131.405	7.618 #
42) Toxaphene...	3.435f	3.426	194913	1752734	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 17:29  
Operator : MJB  
Sample : 9120734-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

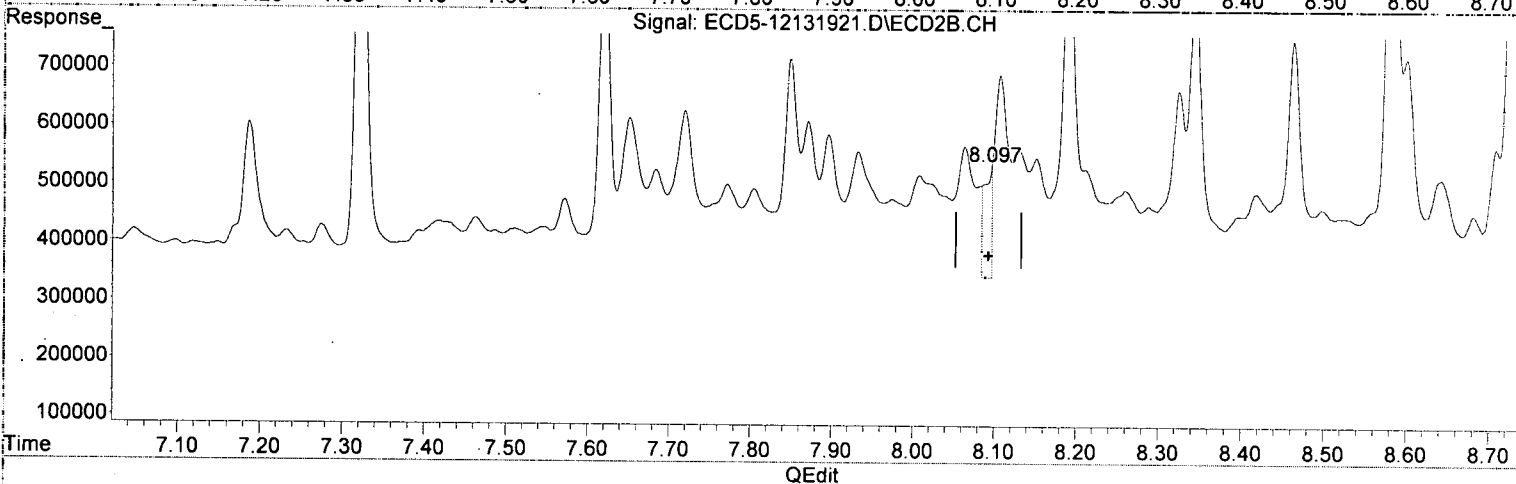
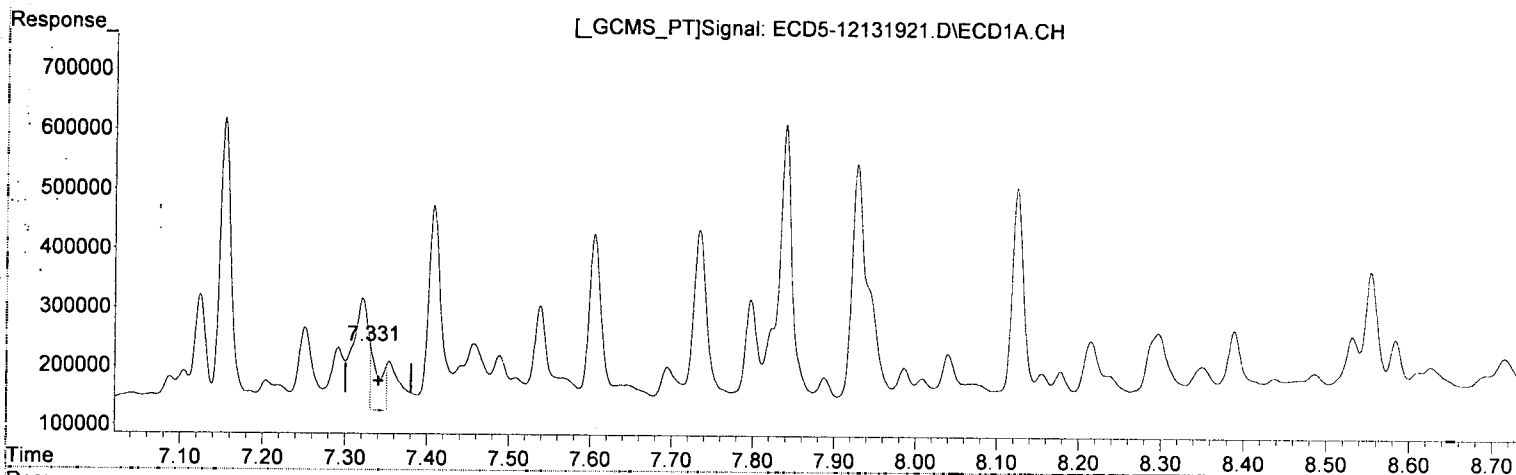
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 18:04:45 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 17:29  
Operator : MJB  
Sample : 9120734-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 18:02:27 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.331min 0.576 ng/mL (m)  
response 108678

MJB 12/13/19

(12) 4,4'-DDE #2

8.097min 0.613 ng/mL (m)  
response 190478

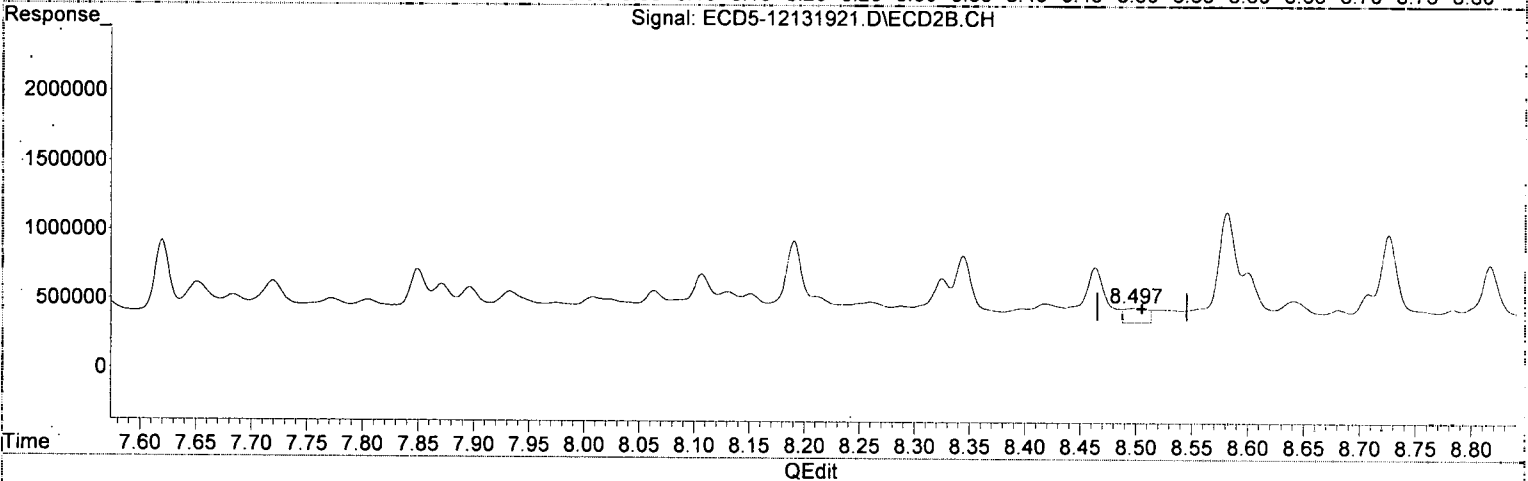
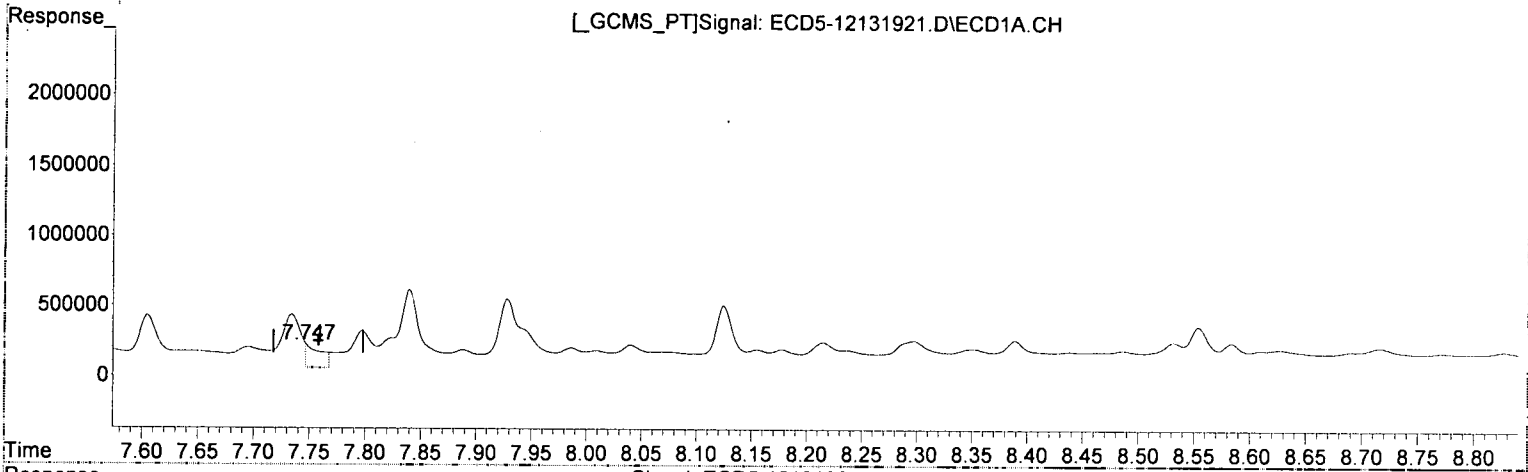
(+) = Expected Retention Time



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:29  
 Operator : MJB  
 Sample : 9120734-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:02:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(15) 4,4'-DDD  
 7.747min 1.065 ng/mL (m)  
 response 167332

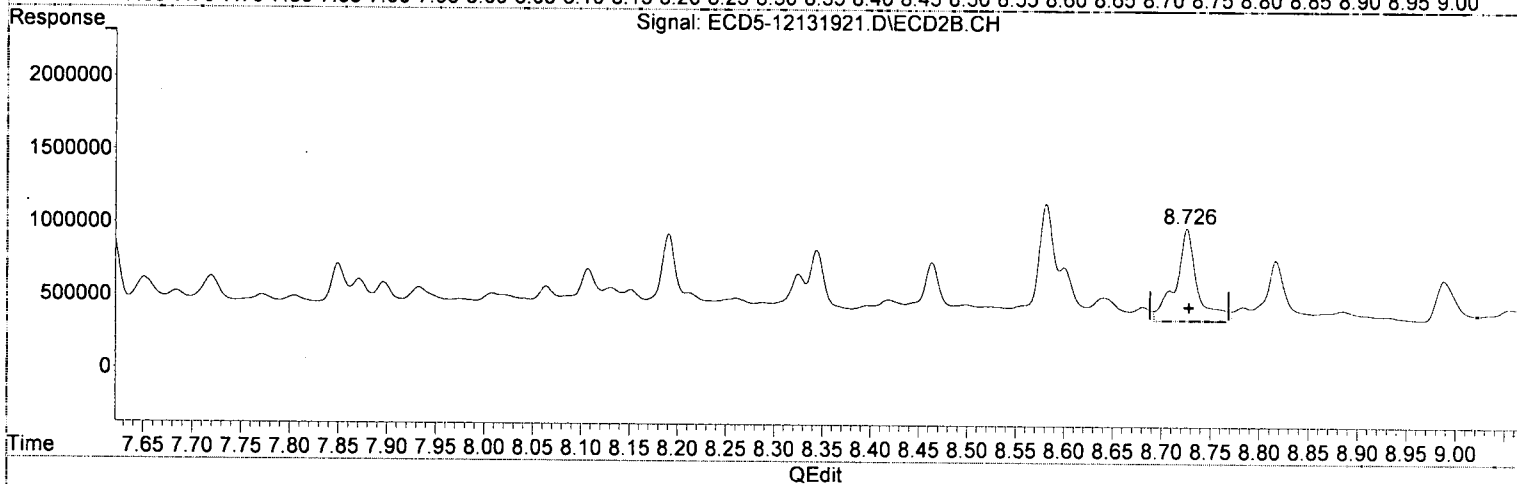
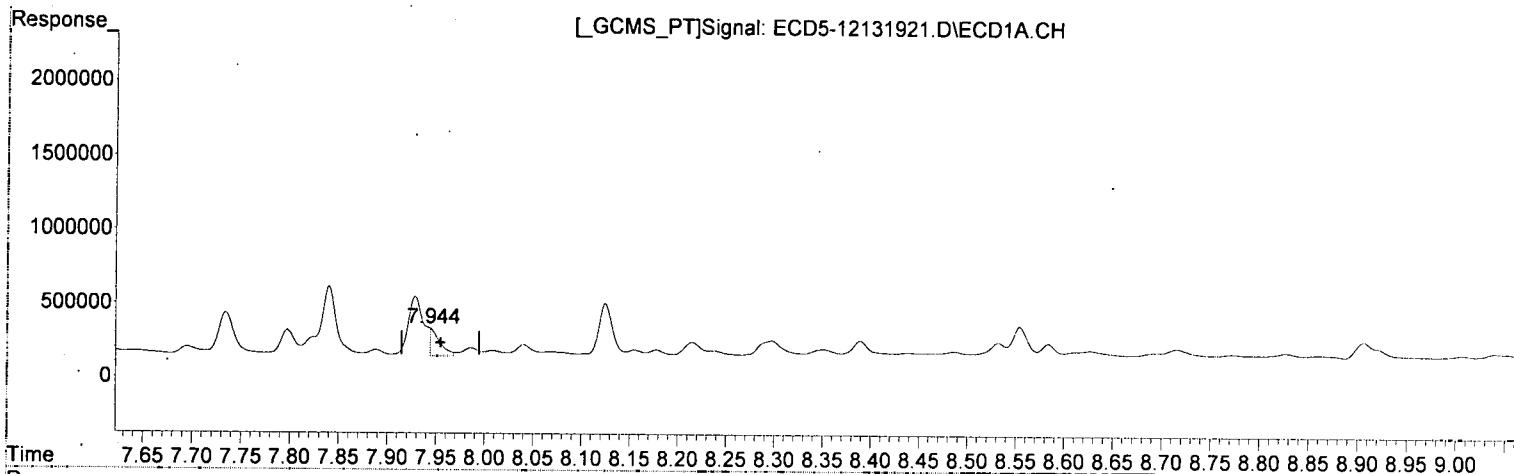
*MJB  
12/13/19*

(15) 4,4'-DDD #2  
 8.498min 0.423 ng/mL  
 response 108420

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:29  
 Operator : MJB  
 Sample : 9120734-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:02:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(17) 4,4'-DDT

7.944min 1.574 ng/mL *(m) B-02*  
 response 188169

*MJB*  
*12/13/19*

(17) 4,4'-DDT #2

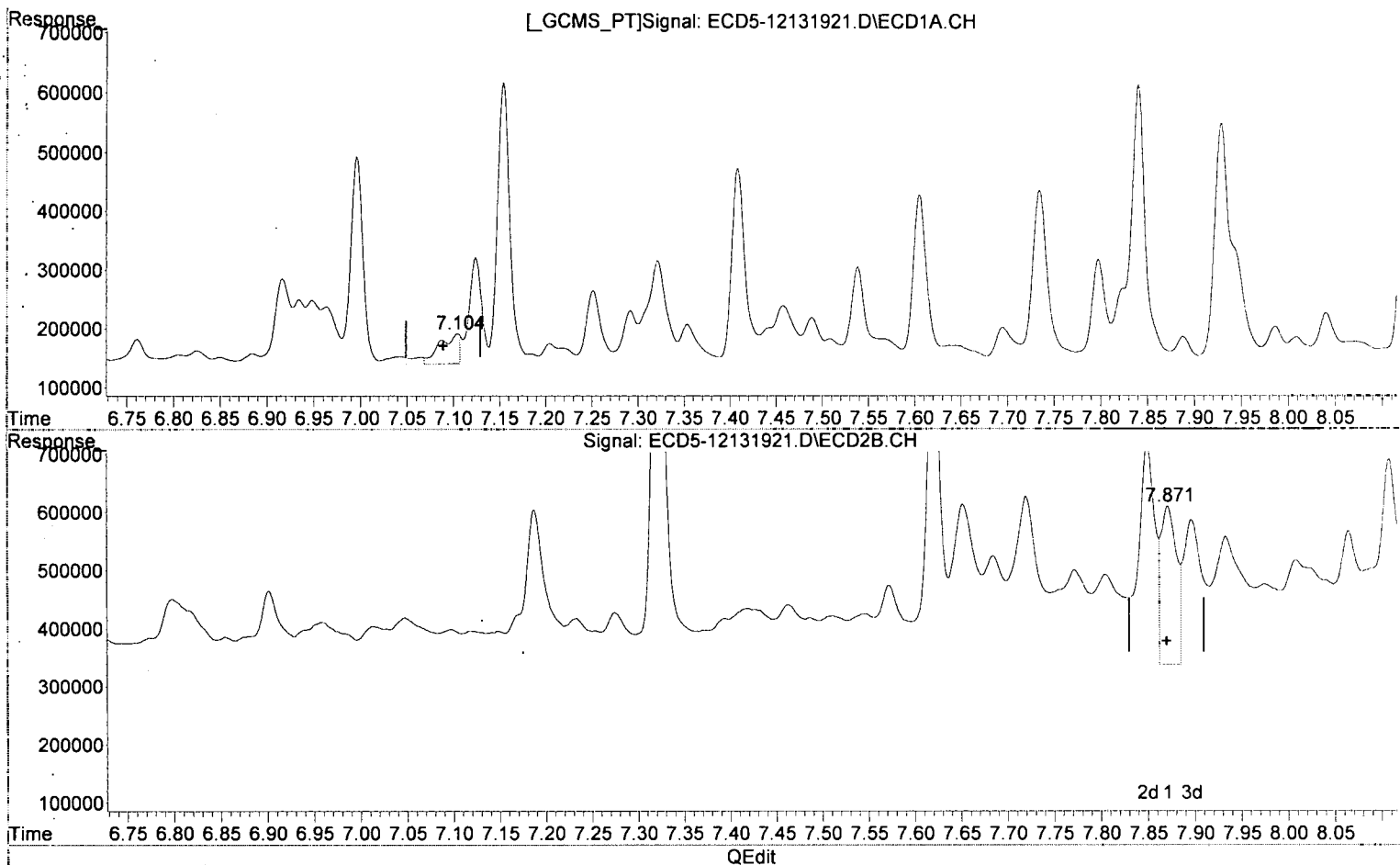
8.726min 3.648 ng/mL *P-91*  
 response 636238

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 17:29  
Operator : MJB  
Sample : 9120734-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 18:02:27 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(26) 2,4'-DDE  
7.104min 0.392 ng/mL (+)  
response 50242

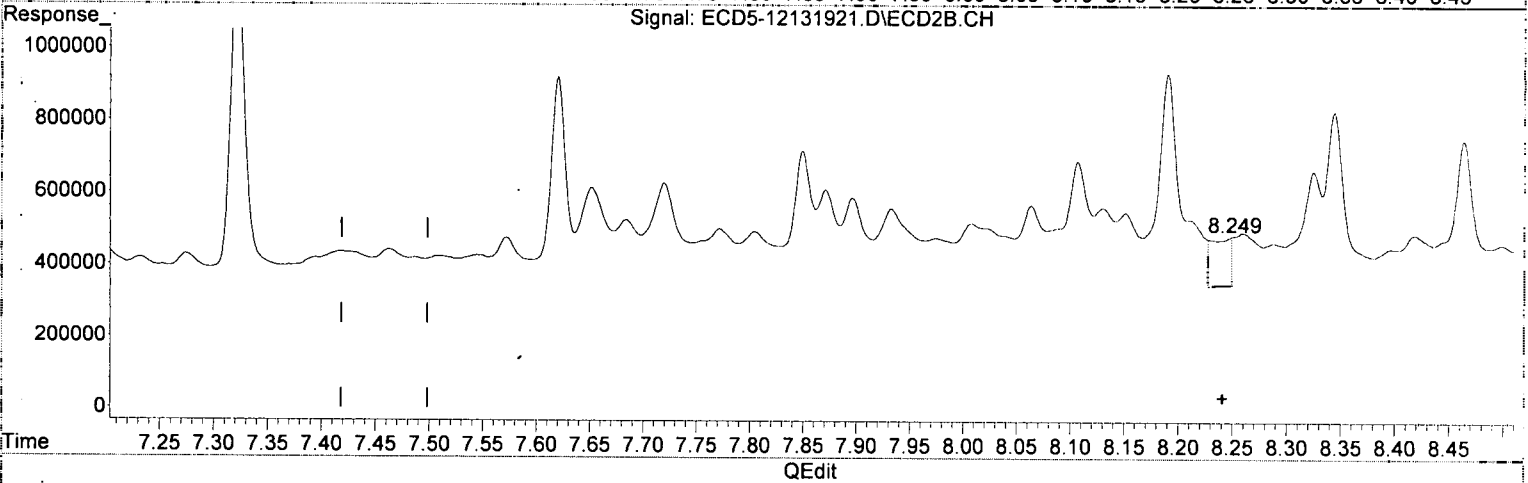
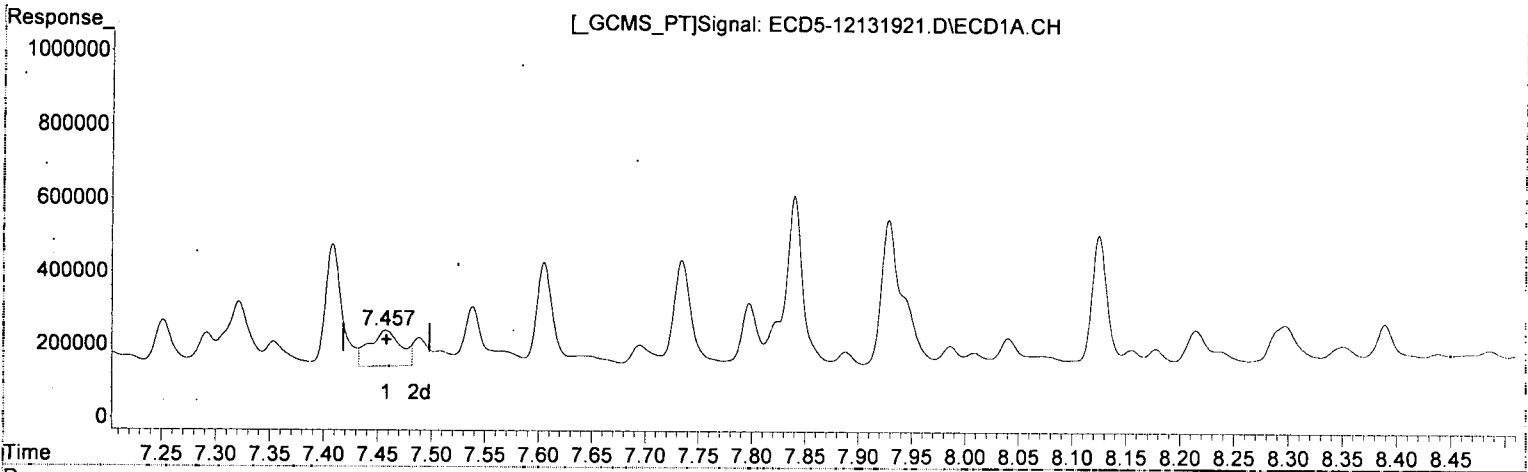
MJB 12/13/19

(26) 2,4'-DDE #2  
7.871min 1.278 ng/mL (+)  
response 271044

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:29  
 Operator : MJB  
 Sample : 9120734-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:02:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(28) 2,4'-DDD

7.457min 0.859 ng/mL/m

response 97977

*MJB*  
*12/17/19*

(28) 2,4'-DDD #2

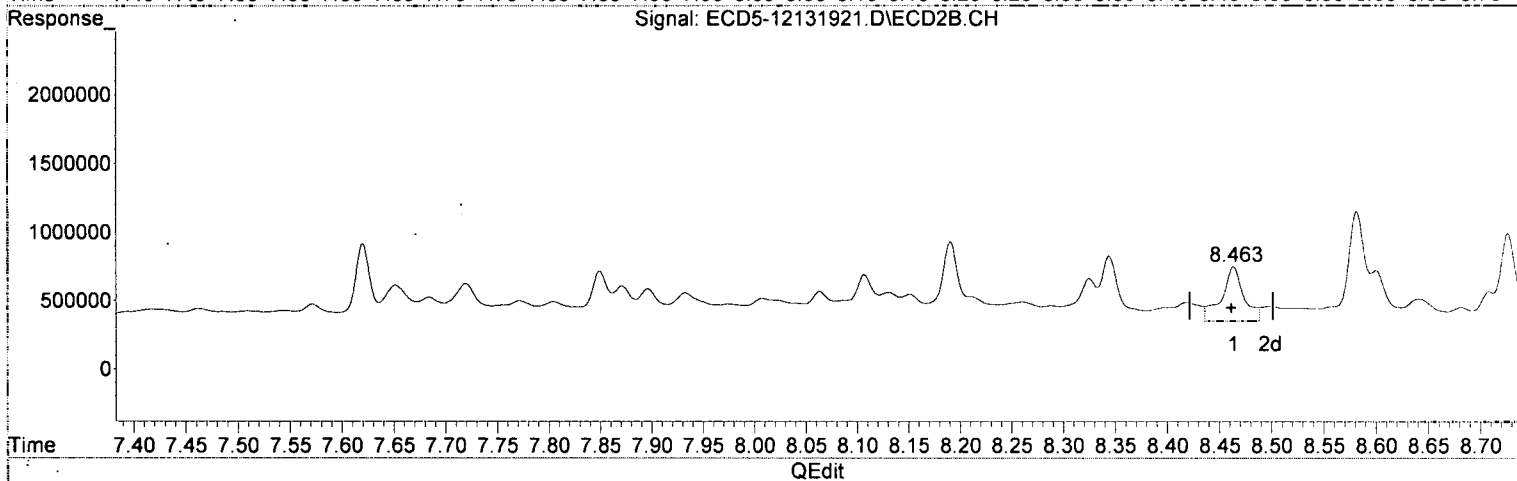
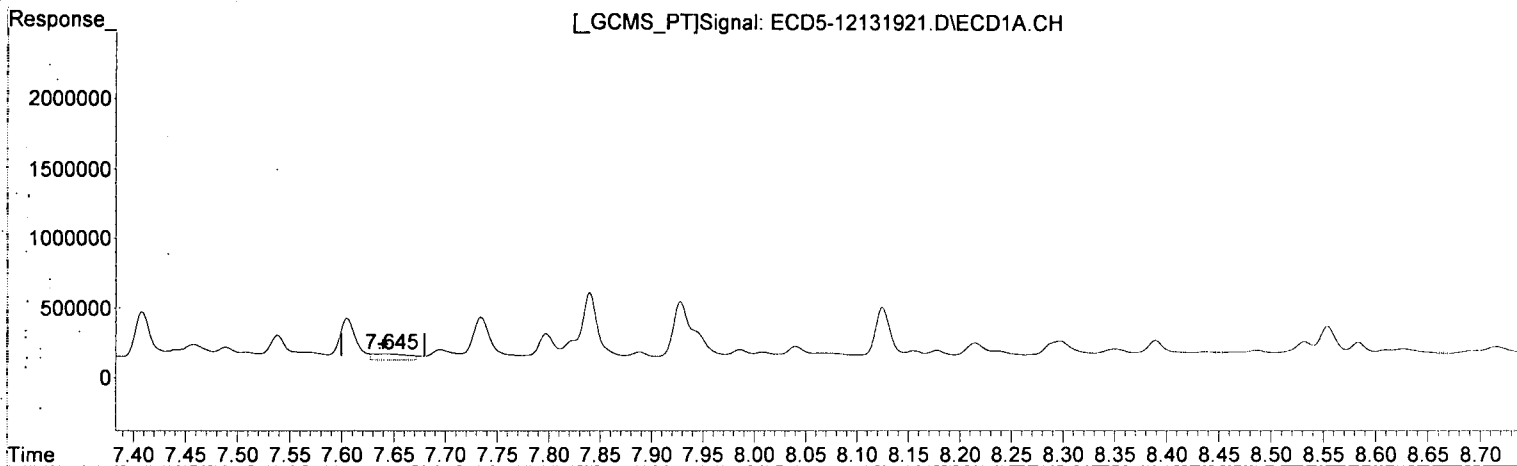
8.249min 0.710 ng/mL/m

response 134107

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:29  
 Operator : MJB  
 Sample : 9120734-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:02:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(29) 2,4'-DDT  
 7.645min 0.382 ng/mL(m)  
 response 41865

*MJB*  
*12/13/19*

(29) 2,4'-DDT #2  
 8.464min 2.236 ng/mL P-01  
 response 398838

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:29  
 Operator : MJB  
 Sample : 9120734-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:02:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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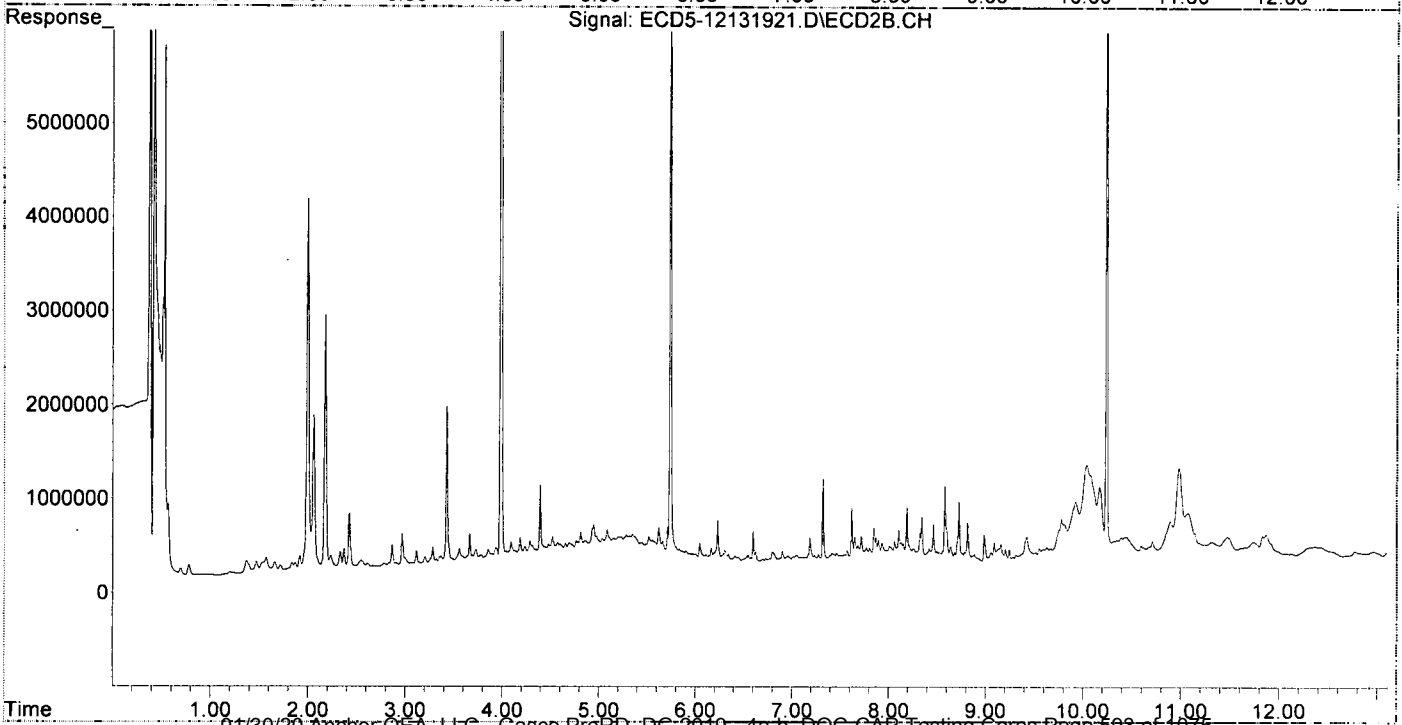
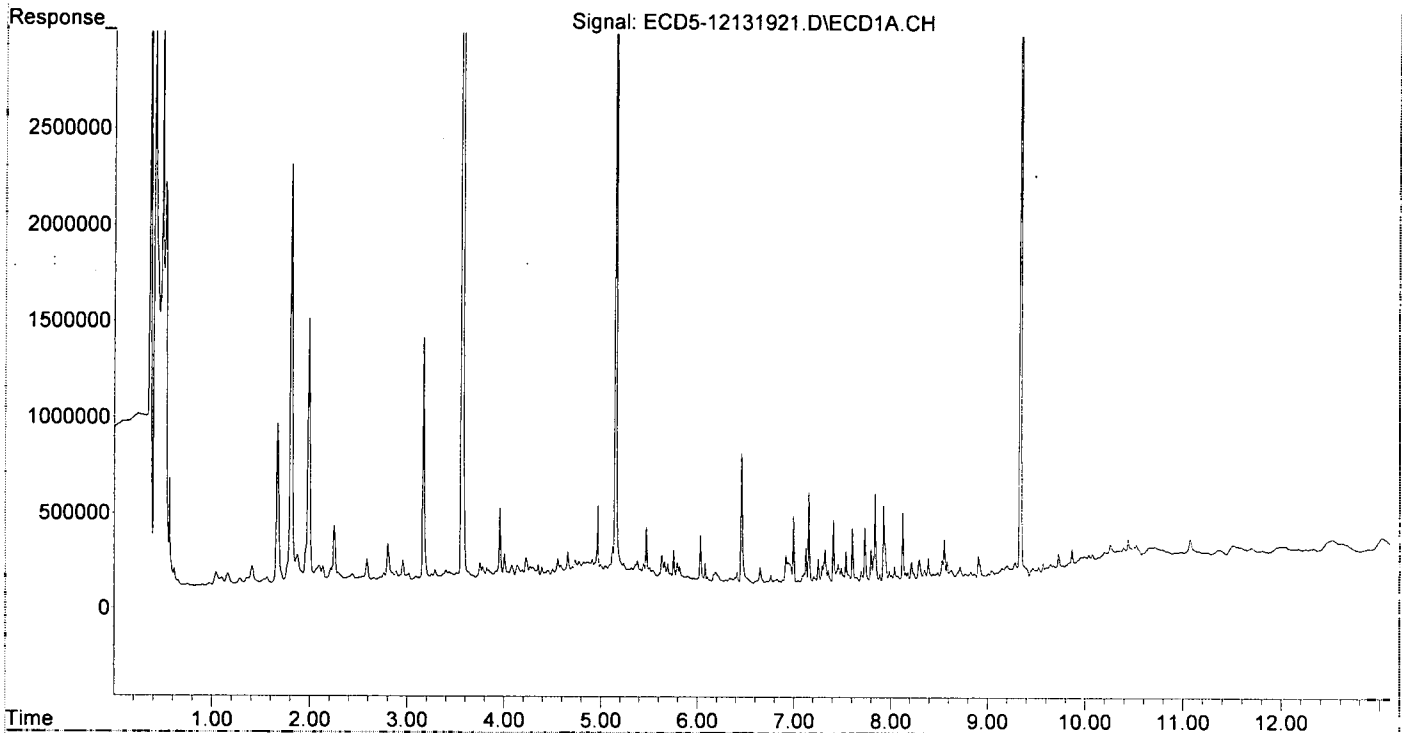
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.152	5.739	4852550	8357425	29.237	28.488
22) S DCBP (S)	9.335	10.239	6952069	9033827	49.271	50.254
Target Compounds						
2) a-BHC	5.692	6.339	341805	124275	1.490	0.303 #
3) g-BHC	0.000	6.694f	0	64292	N.D.	0.180 #
4) b-BHC	6.031	6.727	502137	68750	5.556	0.434 #
5) Heptachlor	6.353f	7.047	294593	99172	1.625	0.324 #
6) d-BHC	6.188	6.958f	321747	93106	1.636	0.264 #
7) Aldrin	6.650f	7.274	366048	102307	1.854	0.311 #
8) Heptachlo...	7.042f	7.720	314846	291165	1.709	0.968 #
9) trans-Chl...	7.154	7.871	783287	271044	4.236	0.865 #
10) cis-Chlor...	7.251	7.974	436923	135850	2.400	0.466 #
11) Endosulfa...	7.354	8.008	383214	175538	2.252	0.638 #
12) 4,4'-DDE	7.354	8.107	383214	345886	2.033	1.113 #
13) Dieldrin	7.538	8.191f	490231	587656	2.554	1.932
14) Endrin	7.696	8.464	393897	398838	2.679	1.766
15) 4,4'-DDD	7.734f	8.498	628182	108420	3.998	0.423 #
16) Endosulfa...	7.840	8.600	809994	365429	5.640	1.585 #
17) 4,4'-DDT	7.929f	8.726	751112	636238	6.282	3.648 #
18) Endrin Al...	8.125	8.817	720050	416675	5.147	1.430 #
19) Endosulfa...	8.438	9.056f	415841	84897	2.683	0.341 #
20) Methoxychlor	8.296	9.204	483895	119056	8.261	1.290 #
21) Endrin Ke...	8.626	9.426	444486	247943	2.665	0.964 #
23) Hexachlor...	2.954	3.426f	231553	1752734	1.267	4.662 #
24) Hexachlor...	5.532	6.188	300067	138628	1.702	0.441 #
25) Oxychlordane	6.996	7.651	652996	279740	3.969	1.021 #
26) 2,4'-DDE	7.124f	7.871	485585	271044	3.786	1.278 #
27) trans-Non...	7.251	7.933	436923	217674	2.122	0.722 #
28) 2,4'-DDD	7.458	8.260	420034	146052	3.680	0.773 #
29) 2,4'-DDT	7.605f	8.464	615855	398838	5.615	2.236 #
30) cis-Nonac...	7.734	8.498	628182	108420	3.026	0.323 #
31) Mirex	8.389	9.426f	493914	247943	3.940	1.333 #
32) Chlordane...	7.205f	7.933	344508	217674	17.497	6.016 #
33) Chlordane...	7.321	8.064f	491140	224472	19.595	7.393 #
34) Chlordane...	7.888f	8.681	386957	95666	66.935	10.670 #
35) Chlordane...	3.435	3.426	194913	1752734	NoCal	NoCal
36) Toxaphene...	7.292	8.260	404078	146052	451.157	55.655 #
37) Toxaphene...	7.605	8.600	615855	365429	381.349	111.038 #
38) Toxaphene...	7.888	8.641	386957	157972	114.910	31.169 #
39) Toxaphene...	8.155	8.726	408696	636238	126.135	76.198
40) Toxaphene...	8.350	8.885	430644	70069	179.649	15.035 #
41) Toxaphene...	8.438	9.283	415841	36187	131.405	7.618 #
42) Toxaphene...	3.435f	3.426	194913	1752734	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 17:29  
Operator : MJB  
Sample : 9120734-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 18:02:27 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131922.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 17:46  
 Operator : MJB  
 Sample : 9120734-BS1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 18:08:21 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.152	5.738	5070290	9097503	30.548	31.011
22) S DCBP (S)	9.337	10.240	6693830	9132463	47.441	50.803
Target Compounds						
2) a-BHC	5.692	6.338	121285	129201	0.529	0.315 #
3) g-BHC	0.000	6.694f	0	51512	N.D.	0.144 #
4) b-BHC	6.031	6.726	284993	101501	3.153	0.641 #
5) Heptachlor	6.354f	7.045	27187	71544	0.150	0.234 #
6) d-BHC	6.184	6.986	86442	44230	0.439	0.125 #
7) Aldrin	6.650f	7.274	111590	73808	0.565	0.224 #
8) Heptachlo...	7.083	7.720	5243711	283618	28.471	0.943 #
9) trans-Chl...	7.155	7.865	636712	8637795	3.444	27.568 #
10) cis-Chlor...	7.252	8.007f	129654	69244	0.712	0.238 #
11) Endosulfa...	7.333f	8.021	8675186	63240	50.977	0.230 #
12) 4,4'-DDE	7.333	8.087	8675186	14061640	46.015	45.261
13) Dieldrin	7.539	8.237	198152	8321196	1.032	27.359 #
14) Endrin	7.696	8.458	67272	9911199	0.458	43.888 #
15) 4,4'-DDD	7.751	8.501	7676565	12329299	48.852	48.121
16) Endosulfa...	7.841	8.600	507499	436846	3.534	1.894 #
17) 4,4'-DDT	7.949	8.724	7991082	12903672	66.837	66.681
18) Endrin Al...	8.126	8.818	468145	530499	2.994	2.050
19) Endosulfa...	8.438	9.031	32006	36964	0.207	0.148
20) Methoxychlor	8.298	9.205	126301	106986	2.156	1.141 #
21) Endrin Ke...	8.627	9.427	56041	232284	0.336	0.903 #
23) Hexachlor...	2.953	3.424f	134646	1508640	0.737	4.013 #
24) Hexachlor...	5.545	6.230f	107068	570844	0.607	1.817 #
25) Oxychlorane	6.996	7.650	381645	310678	2.320	1.134 #
26) 2,4'-DDE	7.083	7.865	5243711	8637795	40.883	40.718
27) trans-Non...	7.252	7.932	129654	173284	0.407	0.574 #
28) 2,4'-DDD	7.453	8.237	5145758	8321196	45.089	44.059
29) 2,4'-DDT	7.635	8.458	6140684	9911199	55.983	55.575
30) cis-Nonac...	7.751f	8.501	7676565	12329299	36.975	36.755
31) Mirex	8.391	9.427f	128788	232284	1.027	1.248
32) Chlordane...	7.204f	7.932	36203	173284	1.839	4.789 #
33) Chlordane...	7.333	8.021f	8675186	63240	346.117	2.083 #
34) Chlordane...	7.841f	8.682	507499	74152	87.786	8.270 #
35) Chlordane...	3.437	3.424	49912	1508640	NoCal	NoCal
36) Toxaphene...	7.293	8.290f	109580	55709	122.348	21.229 #
37) Toxaphene...	7.605	8.600	378397	436846	234.310	132.738 #
38) Toxaphene...	7.889	8.642	39283	114919	11.665	22.674 #
39) Toxaphene...	8.126	8.724	468145	12903672	144.483	1545.381 #
40) Toxaphene...	8.351	8.887	56557	65550	23.593	14.065 #
41) Toxaphene...	8.438	9.287	32006	6555	10.114	1.380 #
42) Toxaphene...	3.437	3.424	49912	1508640	NoCal	NoCal

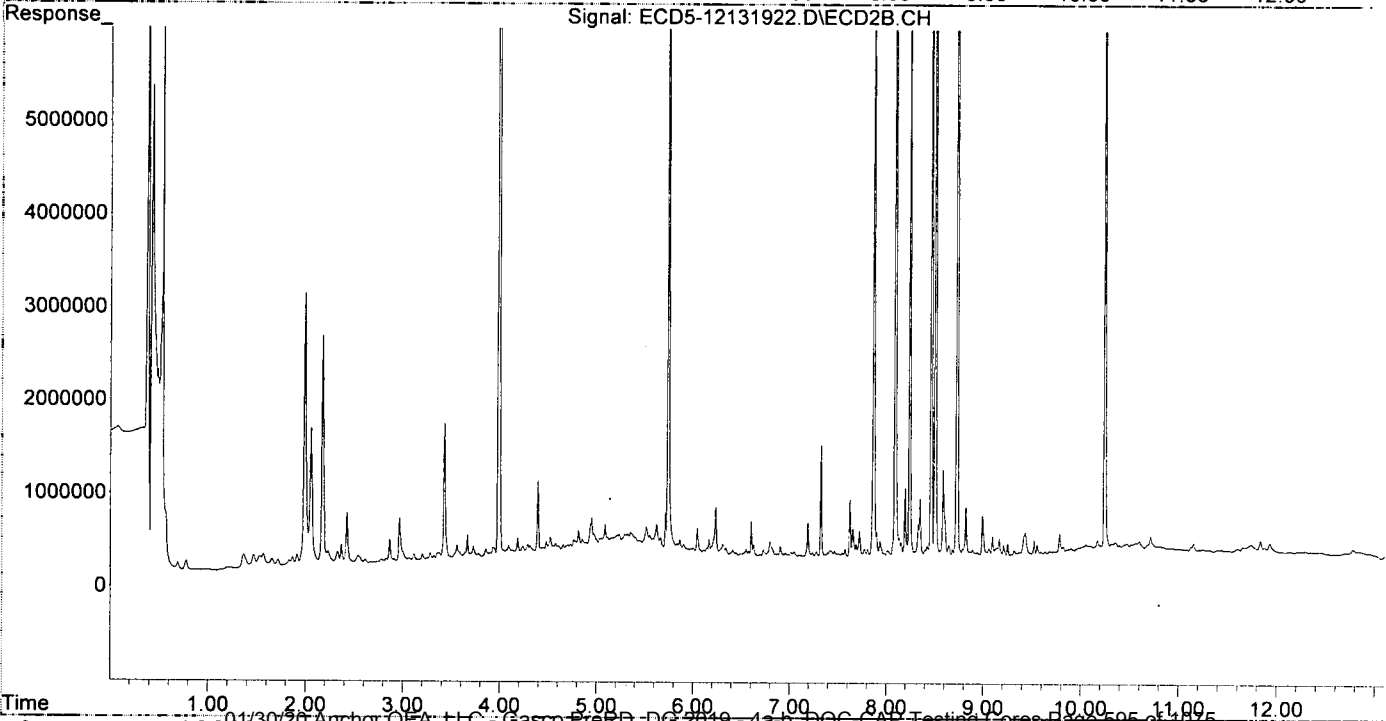
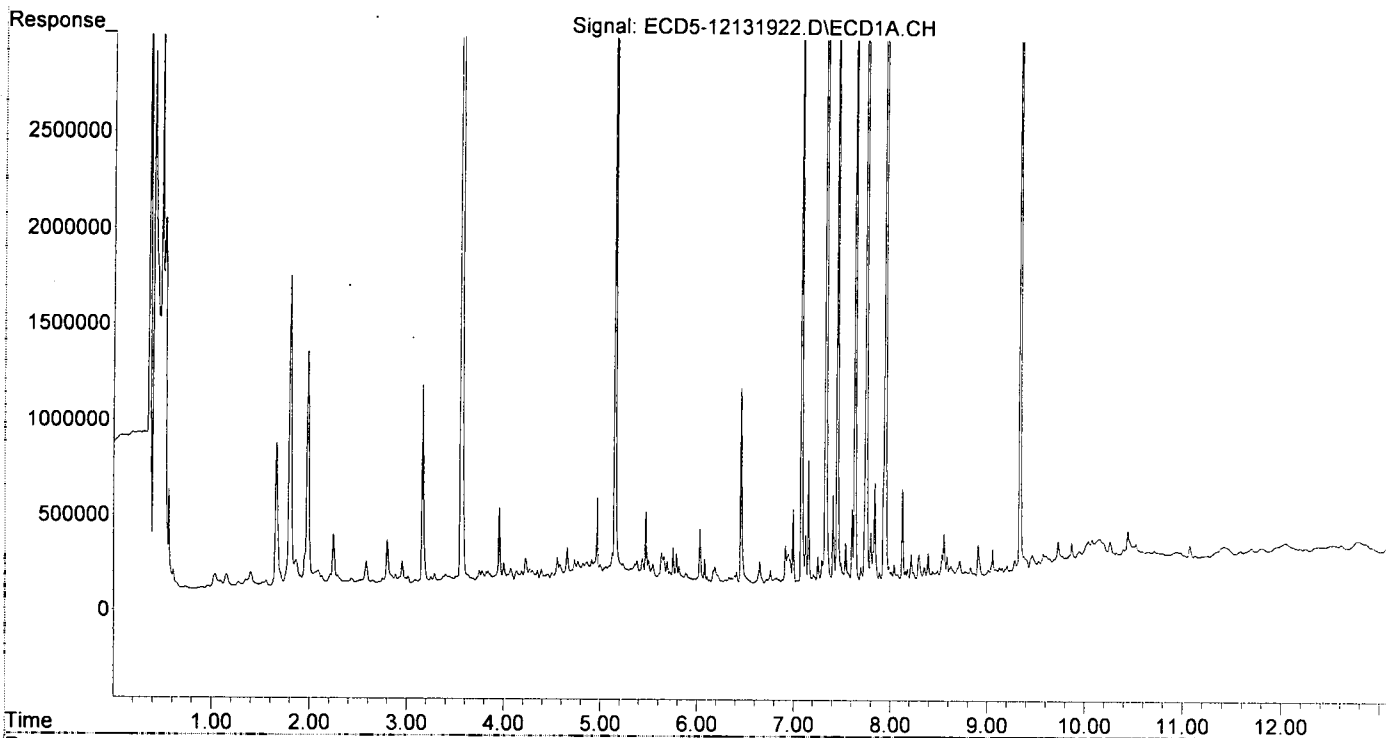
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131922.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 17:46  
Operator : MJB  
Sample : 9120734-BS1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 18:08:21 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131924.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 18:20  
 Operator : MJB  
 Sample : 9L13033-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 10:43:35 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

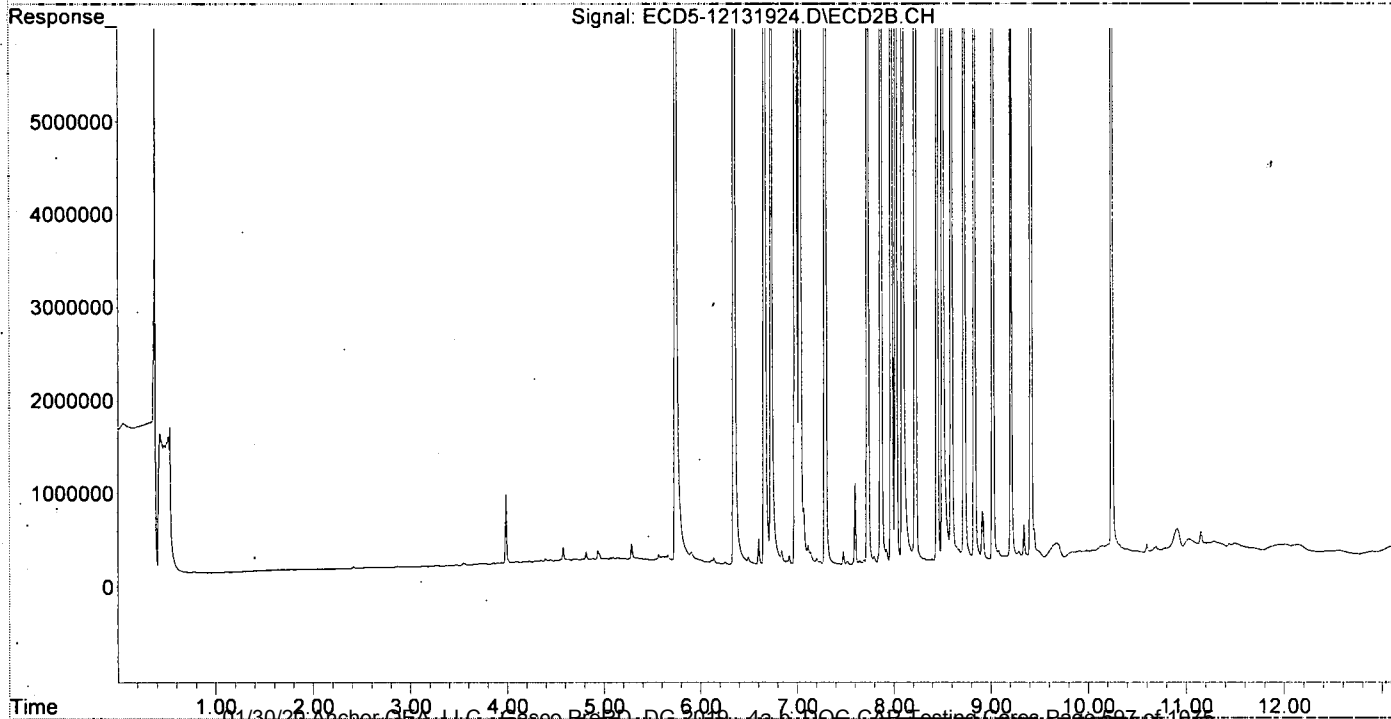
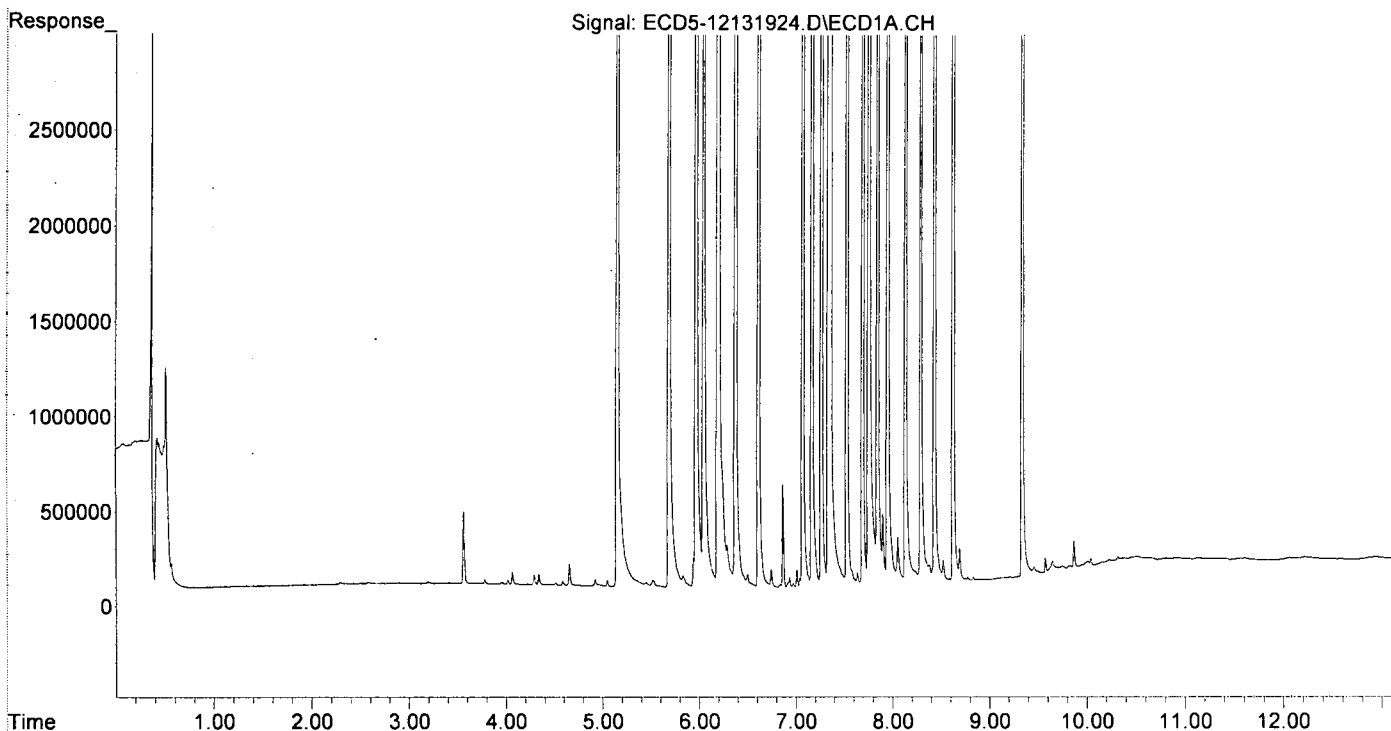
MJB  
12/16/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.152	5.739	16730729	28122677	100.802	95.862
22) S DCBP (S)	9.338	10.240	14265792	20240491	101.105	112.595
Target Compounds						
2) a-BHC	5.686	6.344	24868144	44862262	108.439	109.330
3) g-BHC	5.968	6.661	20890454	38802811	103.532	108.782
4) b-BHC	6.045	6.729	7266580	14460543	80.397	91.369
5) Heptachlor	6.376	7.028	20367136	36333755	112.341	118.747
6) d-BHC	6.192	6.981	16054183	33358544	81.622	94.590
7) Aldrin	6.614	7.290	20777730	38040272	105.233	115.486
8) Heptachlo...	7.073	7.728	19497368	31888995	105.861	105.997
9) trans-Chl...	7.169	7.867	19708655	34179985	106.596	109.088
10) cis-Chlor...	7.266	7.974	18850414	31332892	103.533	107.582
11) Endosulfa...	7.358	8.022	19668193	30098567	115.573	109.379
12) 4,4'-DDE	7.338	8.090	16705917	29006487	88.612	93.365
13) Dieldrin	7.531	8.221	20991012	34149843	109.340	112.280
14) Endrin	7.693	8.446	16836021	27033651	114.510	119.710
15) 4,4'-DDD	7.755	8.503	13663687	24647161	86.952	96.198
16) Endosulfa...	7.848	8.594	16000849	26428978	111.418	114.607
17) 4,4'-DDT	7.951	8.726	13567912	21925862	113.482	106.171
18) Endrin Al...	8.136	8.830	13580051	22884259	107.675	109.990
19) Endosulfa...	8.435	9.020	15357059	24916914	99.092	100.033
20) Methoxychlor	8.293	9.206	6236853	9988813	106.478	101.237
21) Endrin Ke...	8.627	9.412	18178956	28499725	109.014	110.758
23) Hexachlor...	0.000	3.474f	0	9698	N.D.	0.026 #
24) Hexachlor...	5.520	0.000	34811	0	0.197	N.D. #
25) Oxychlorane	7.009	7.646	90537	38419	0.550	0.140 #
26) 2,4'-DDE	7.073	7.867	19497368	34179985	152.013	161.121
27) trans-Non...	7.266	7.923	18850414	151745	105.024	0.503 #
28) 2,4'-DDD	0.000	8.221	0	34149843	N.D.	180.818 #
29) 2,4'-DDT	7.636	8.446	61971	27033651	0.565	151.585 #
30) cis-Nonac...	7.755f	8.503	13663687	24647161	65.812	73.475
31) Mirex	8.378	9.412	87434	28499725	0.697	153.164 #
32) Chlordane...	7.266f	7.923	18850414	151745	957.379	4.194 #
33) Chlordane...	7.338	8.022f	16705917	30098567	666.523	991.256 #
34) Chlordane...	7.848	8.670f	16000849	120843	2767.776	13.478 #
35) Chlordane...	0.000	3.410f	0	6519	N.D.	NoCal
36) Toxaphene...	7.266f	0.000	18850414	0	21046.690	N.D. #
37) Toxaphene...	0.000	8.594f	0	26428978	N.D.	8030.622 #
38) Toxaphene...	7.901	8.670f	365667	120843	108.588	23.843 #
39) Toxaphene...	8.136	8.726	13580051	21925862	4191.177	2625.904
40) Toxaphene...	8.378	8.914f	87434	517175	36.474	110.973 #
41) Toxaphene...	8.435	9.290f	15357059	76955	4852.791	16.200 #
42) Toxaphene...	0.000	3.410f	0	6519	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131924.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 18:20  
Operator : MJB  
Sample : 9L13033-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:43:35 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131925.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 18:37  
 Operator : MJB  
 Sample : 9L13033-CCV4  
 Misc : A19J409, 9-42 100 ppb  
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 10:43:43 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
 12/16/19  
 MJB  
 12/16/19

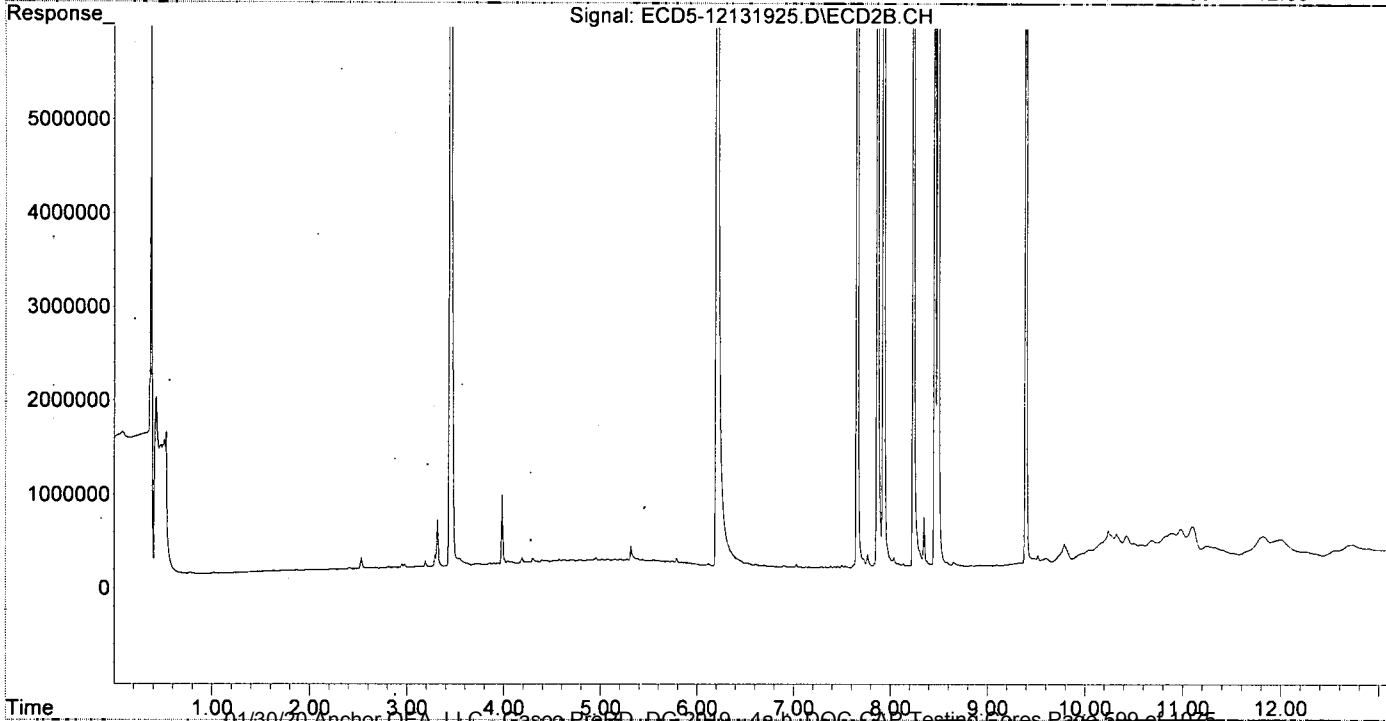
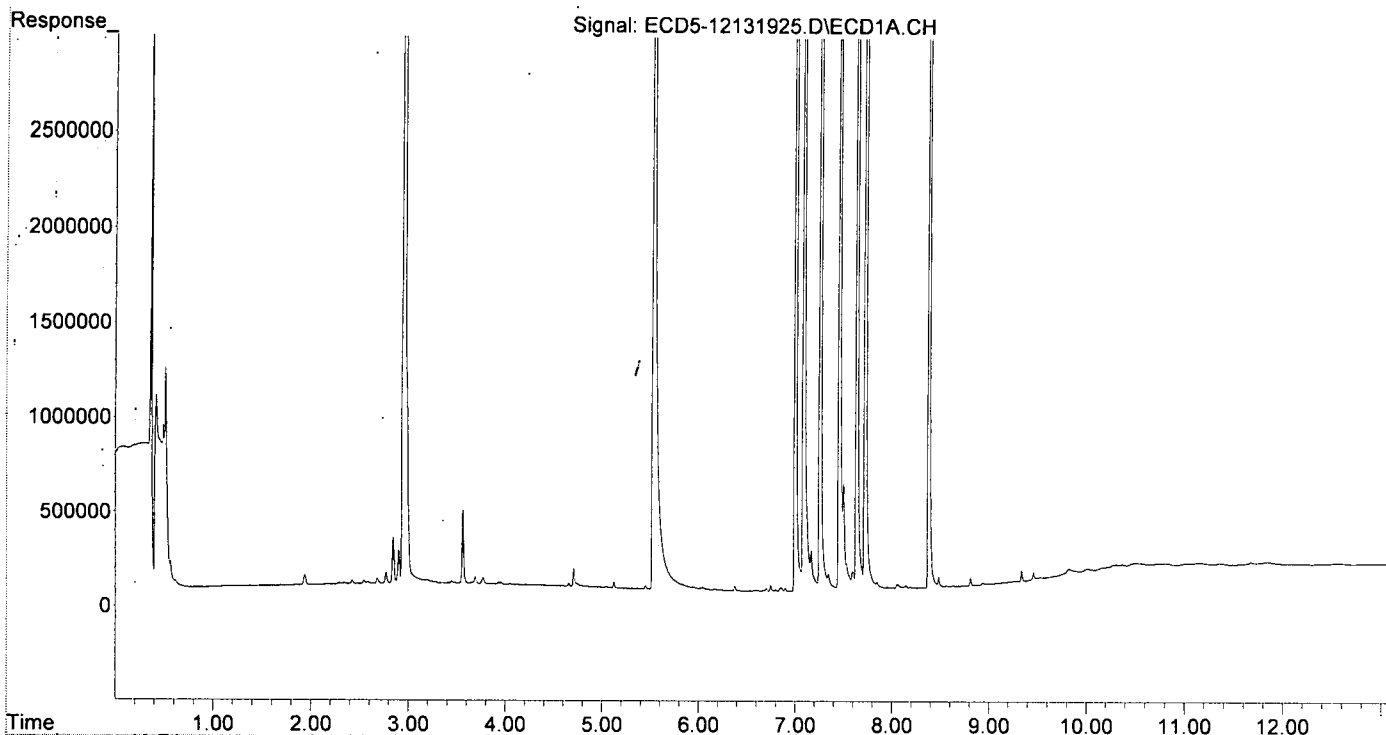
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
21) S TCMX (S)	5.126f	5.752	32381	10179	0.195	0.035 #
22) S DCBP (S)	9.339	10.241	64019	340880	0.454	1.896 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	5.941f	6.690f	16074	9854	0.080	0.028 #
4) b-BHC	6.042	0.000	14944	0	0.165	N.D. #
5) Heptachlor	6.377	7.028	24415	30349	0.135	0.099
6) d-BHC	6.171f	0.000	7597	0	0.039	N.D. #
7) Aldrin	6.581f	7.284	4566	12127	0.023	0.037 #
8) Heptachlo...	7.087	7.726	10814336	86629	58.717	0.288 #
9) trans-Chl...	7.168	7.868	210789	19583071	1.140	62.501 #
10) cis-Chlor...	7.259	0.000	18855032	0	103.559	N.D. #
11) Endosulfa...	7.346	8.038	86424	67939	0.508	0.247 #
12) 4,4'-DDE	7.346	0.000	86424	0	0.458	N.D. #
13) Dieldrin	7.502f	8.239	561816	17206645	2.926	56.573 #
14) Endrin	7.726f	8.459	21607940	19026388	146.966	84.252 #
15) 4,4'-DDD	7.726f	8.493	21607940	36329821	137.507	141.795
16) Endosulfa...	7.848	0.000	38289	0	0.267	N.D. #
17) 4,4'-DDT	7.953	0.000	9687	0	0.081	N.D. #
18) Endrin Al...	8.148	8.831	14140	8161	BelowCal	BelowCal
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.630	9.398	4899	19012238	0.029	73.887 #
23) Hexachlor...	2.952	3.447	19465408	43645622	106.520	116.100
24) Hexachlor...	5.532	6.204	18217040	31661094	103.333	100.803
25) Oxychlorane	7.003	7.658	16448869	27986960	99.970	102.178
26) 2,4'-DDE	7.087	7.868	10814336	19583071	84.315	92.313
27) trans-Non...	7.259	7.932	18855032	31821315	105.050	105.496
28) 2,4'-DDD	7.457	8.239	9774175	17206645	85.644	91.106
29) 2,4'-DDT	7.638	8.459	11968037	19026388	109.110	106.686
30) cis-Nonac...	7.726	8.493	21607940	36329821	104.077	108.302
31) Mirex	8.384	9.398	12922850	19012238	103.080	102.176
32) Chlordane...	7.259f	7.932	18855032	31821315	957.613	879.416
33) Chlordane...	7.346f	8.038	86424	67939	3.448	2.237
34) Chlordane...	7.848	0.000	38289	0	6.623	N.D. #
35) Chlordane...	3.448	3.447	10911	43645622	NoCal	NoCal
36) Toxaphene...	0.000	8.239f	0	17206645	N.D.	6556.766 #
37) Toxaphene...	7.596	8.653f	94513	42415	58.524	12.888 #
38) Toxaphene...	0.000	8.653	0	42415	N.D.	8.369 #
39) Toxaphene...	8.148	0.000	14140	0	4.364	N.D. #
40) Toxaphene...	8.384	8.927f	12922850	7808	5390.940	1.675 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.448	3.447	10911	43645622	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131925.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 18:37  
Operator : MJB  
Sample : 9L13033-CCV4  
Misc : A19J409, 9-42 100 ppb  
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:43:43 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131926.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 18:55  
 Operator : MJB  
 Sample : 9L13033-CCB2  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 10:43:50 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

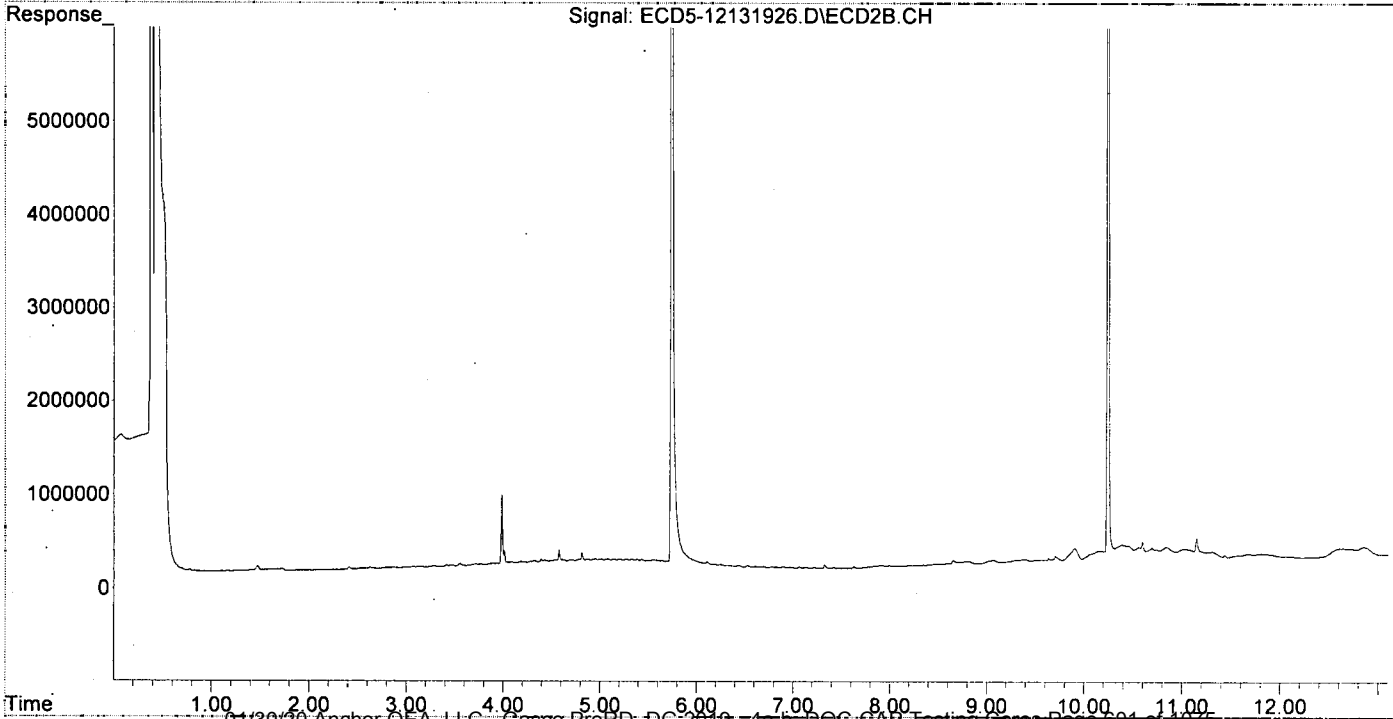
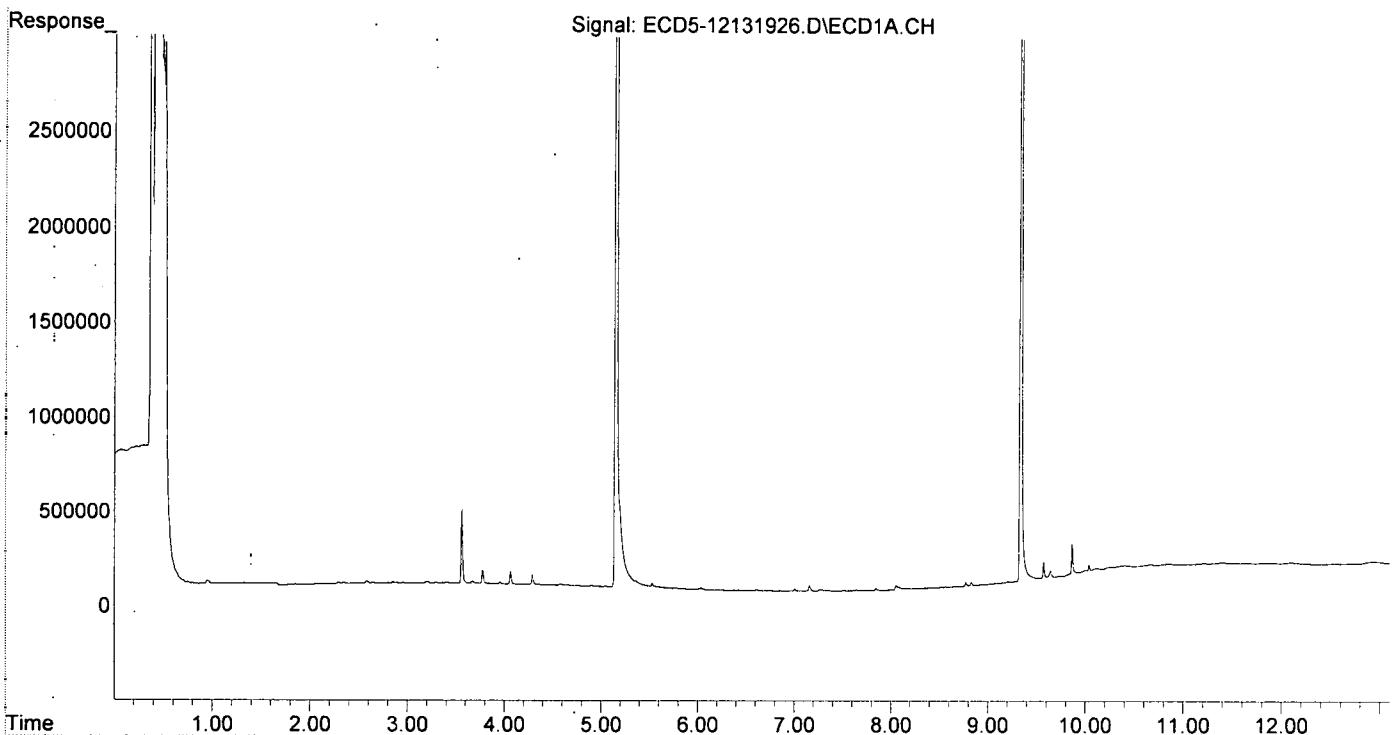
*WJB  
12/16/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.153	5.739	17110750	29039758	103.092	98.988
22) S DCBP (S)	9.338	10.241	14569777	21702616	103.260	120.729
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.694f	0	14518	N.D.	0.041 #
4) b-BHC	6.041	6.694f	7940	14518	0.088	0.092
5) Heptachlor	0.000	7.062f	0	10036	N.D.	0.033 #
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.614	7.327f	6664	38622	0.034	0.117 #
8) Heptachlo...	0.000	7.740	0	6988	N.D.	0.023 #
9) trans-Chl...	7.161	7.902f	29223	25897	0.158	0.083 #
10) cis-Chlor...	7.269	7.956f	7410	16064	0.041	0.055
11) Endosulfa...	0.000	8.034	0	14695	N.D.	0.053 #
12) 4,4'-DDE	0.000	8.074	0	13230	N.D.	0.043 #
13) Dieldrin	0.000	8.216	0	13689	N.D.	0.045 #
14) Endrin	0.000	8.423f	0	20847	N.D.	0.092 #
15) 4,4'-DDD	0.000	8.512	0	21474	N.D.	0.084 #
16) Endosulfa...	7.849	8.585	11345	31902	0.079	0.138 #
17) 4,4'-DDT	0.000	8.718	0	35649	N.D.	0.170 #
18) Endrin Al...	8.139	8.809f	5521	41410	BelowCal	BelowCal
19) Endosulfa...	0.000	9.054f	0	46760	N.D.	0.188 #
20) Methoxychlor	8.291	0.000	2396	0	0.041	N.D. #
21) Endrin Ke...	0.000	9.389f	0	49407	N.D.	0.192 #
23) Hexachlor...	0.000	3.474f	0	24649	N.D.	0.066 #
24) Hexachlor...	5.532	0.000	27282	0	0.155	N.D. #
25) Oxychlorthane	7.007	7.678	9648	6442	0.059	0.024 #
26) 2,4'-DDE	0.000	7.902f	0	25897	N.D.	0.122 #
27) trans-Non...	7.269	7.956f	7410	16064	87346.659	0.053 #
28) 2,4'-DDD	0.000	8.216f	0	13689	N.D.	0.072 #
29) 2,4'-DDT	7.645	8.423f	3806	20847	0.035	0.117 #
30) cis-Nonac...	0.000	8.512	0	21474	N.D.	0.064 #
31) Mirex	8.397	9.389	4333	49407	0.035	0.266 #
32) Chlordane...	0.000	7.956f	0	16064	N.D.	0.444 #
33) Chlordane...	0.000	8.034	0	14695	N.D.	0.484 #
34) Chlordane...	7.849	8.718f	11345	35649	1.962	3.976 #
35) Chlordane...	3.413f	3.412f	7517	24302	NoCal	NoCal
36) Toxaphene...	7.269f	8.296f	7410	14031	8.273	5.347
37) Toxaphene...	0.000	8.585f	0	31902	N.D.	9.694 #
38) Toxaphene...	0.000	8.655	0	58930	N.D.	11.627 #
39) Toxaphene...	8.139	8.718	5521	35649	1.704	4.269 #
40) Toxaphene...	8.397f	0.000	4333	0	1.807	N.D. #
41) Toxaphene...	8.397f	9.275	4333	42207	1.369	8.885 #
42) Toxaphene...	0.000	3.412f	0	24302	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131926.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 18:55  
Operator : MJB  
Sample : 9L13033-CCB2  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:43:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 22:34  
 Operator : MJB  
 Sample : 9L13033-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 12:28:50 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/16/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.152	5.739	7823793	11837535	47.138	40.351
22) S DCBP (S)	9.336	10.238	6653635	9762351	47.156	54.307
Target Compounds						
2) a-BHC	5.685	6.344	11957869	19867420	52.143	48.417
3) g-BHC	5.966	6.660	10017992	17193681	49.649	48.202
4) b-BHC	6.046	6.730	2924241	5751274	32.354	36.339
5) Heptachlor	6.375	7.027	10120869	17817475	55.825	58.231
6) d-BHC	6.194	6.981	6110610	13253171	31.067	37.580
7) Aldrin	6.613	7.288	10079622	16795653	51.050	50.990
8) Heptachlo...	7.071	7.726	9459758	15561016	51.362	51.724
9) trans-Chl...	7.167	7.865	9346077	15834243	50.549	50.536
10) cis-Chlor...	7.264	7.973	9384539	14840155	51.543	50.954
11) Endosulfa...	7.355	8.019	10192721	14153699	59.894	51.435
12) 4,4'-DDE	7.338	8.089	7344233	12116087	38.955m	38.999 Q-31
13) Dieldrin	7.529	8.219	10330505	15899284	53.811	52.274
14) Endrin	7.691	8.444	8442026	12708950	57.418 Q-31	56.277
15) 4,4'-DDD	7.756	8.502	5991184	10545659	38.126	41.160
16) Endosulfa...	7.846	8.591	7912084	12349166	55.094	53.551
17) 4,4'-DDT	7.950	8.724	5542241	8098102	46.355	43.554
18) Endrin Al...	8.134	8.828	6677645	10708420	54.328	54.262
19) Endosulfa...	8.433	9.018	7524742	11659530	48.554	46.809
20) Methoxychlor	8.293	9.205	2592254	3795611	44.256	42.908
21) Endrin Ke...	8.624	9.410	9046227	13288434	54.247	51.642
23) Hexachlor...	2.953	3.472f	9673	27729	0.053	0.074
24) Hexachlor...	5.519	0.000	20893	0	0.119	N.D. #
25) Oxychlorane	7.008	7.674	49900	10659	0.303	0.039 #
26) 2,4'-DDE	7.071	7.865	9459758	15834243	73.754	74.641
27) trans-Non...	7.264	7.922	9384539	74673	52.095	0.248 #
28) 2,4'-DDD	0.000	8.219f	0	15899284	N.D.	84.184 #
29) 2,4'-DDT	7.636	8.444	42069	12708950	0.384	71.263 #
30) cis-Nonac...	7.756f	8.502	5991184	10545659	28.857	31.437
31) Mirex	0.000	9.410	0	13288434	N.D.	71.415 #
32) Chlordane...	7.264f	7.922	9384539	74673	476.624	2.064 #
33) Chlordane...	7.355f	8.019f	10192721	14153699	406.663	466.133
34) Chlordane...	7.846	8.724f	7912084	8098102	1368.607	903.213
35) Chlordane...	3.470	3.415	10893	18126	NoCal	NoCal
36) Toxaphene...	7.264f	0.000	9384539	0	10477.939	N.D. #
37) Toxaphene...	0.000	8.591f	0	12349166	N.D.	3752.377 #
38) Toxaphene...	0.000	8.648	0	108400	N.D.	21.388 #
39) Toxaphene...	8.134	8.724	6677645	8098102	2060.905	969.852 #
40) Toxaphene...	0.000	8.912	0	303900	N.D.	65.210 #
41) Toxaphene...	8.433	9.290f	7524742	22459	2377.799	4.728 #
42) Toxaphene...	3.470	3.415f	10893	18126	NoCal	NoCal

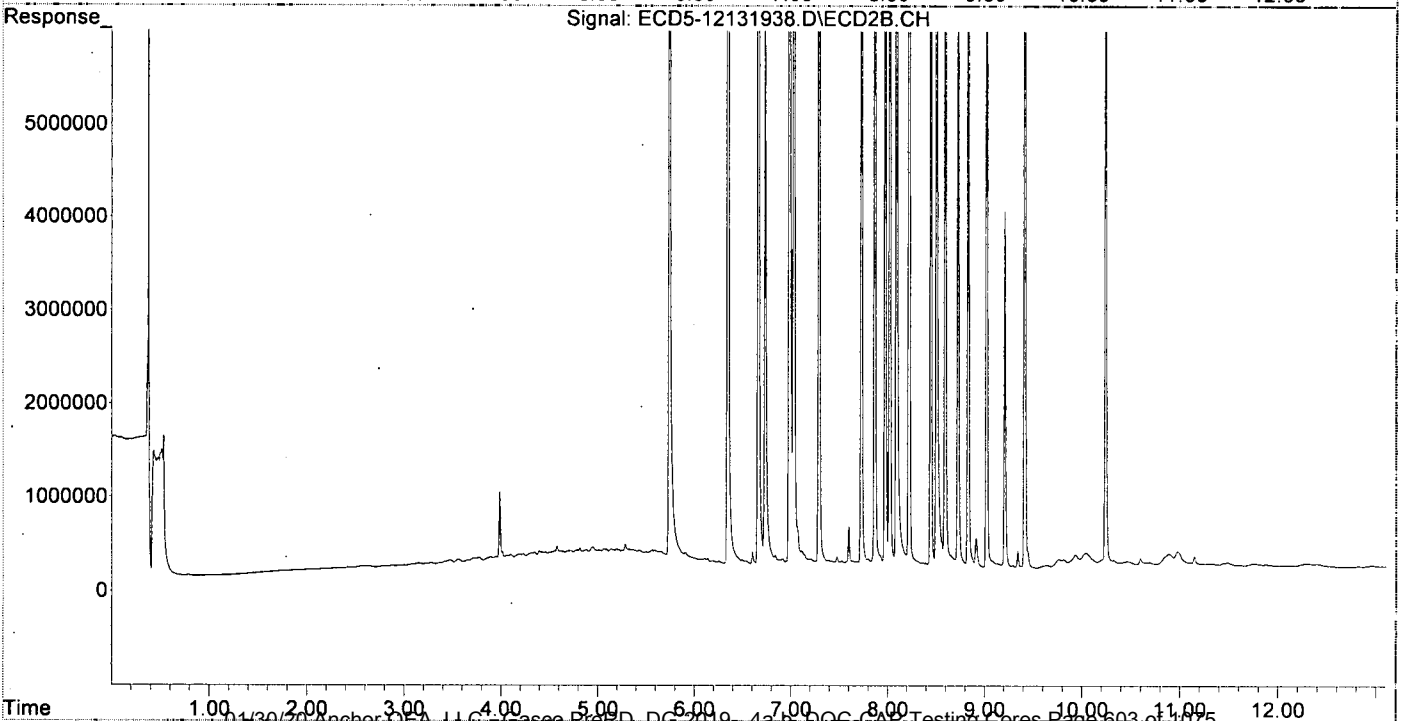
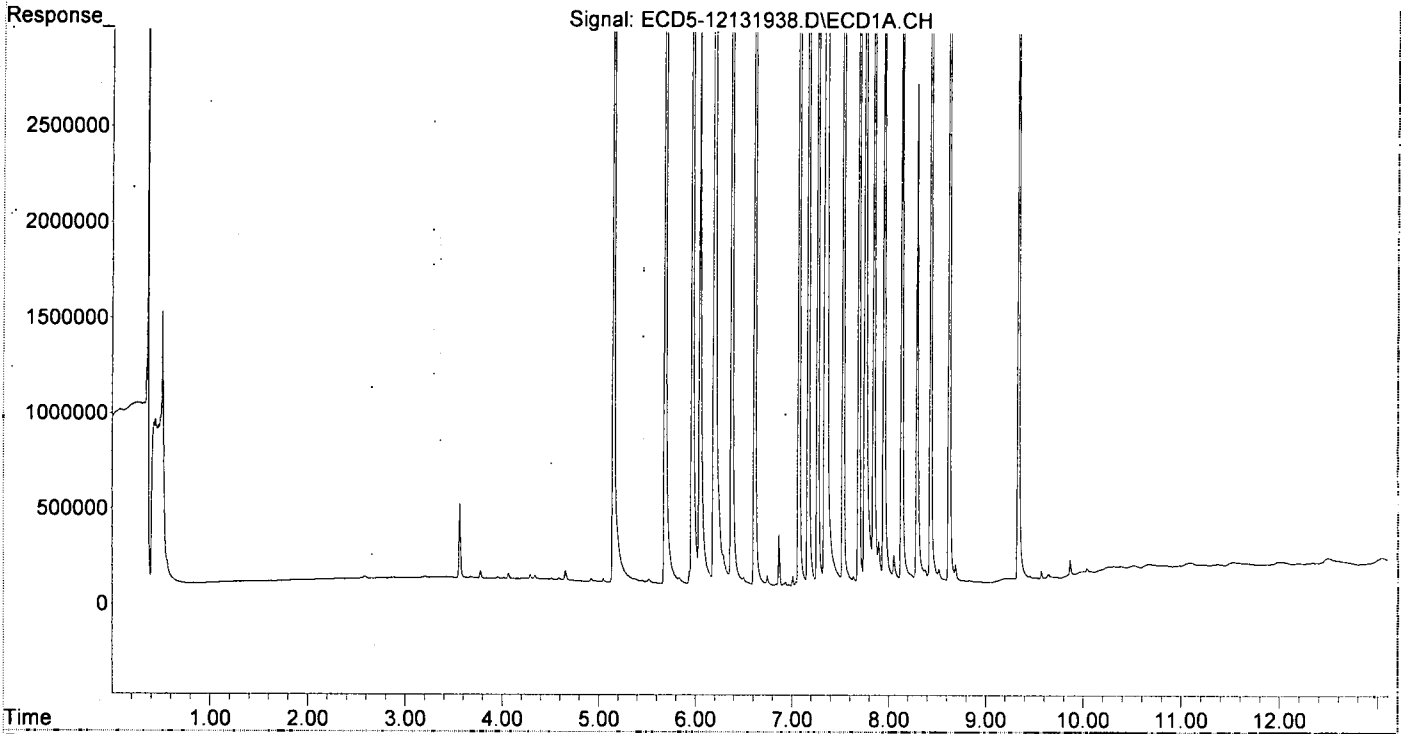
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 22:34  
Operator : MJB  
Sample : 9L13033-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

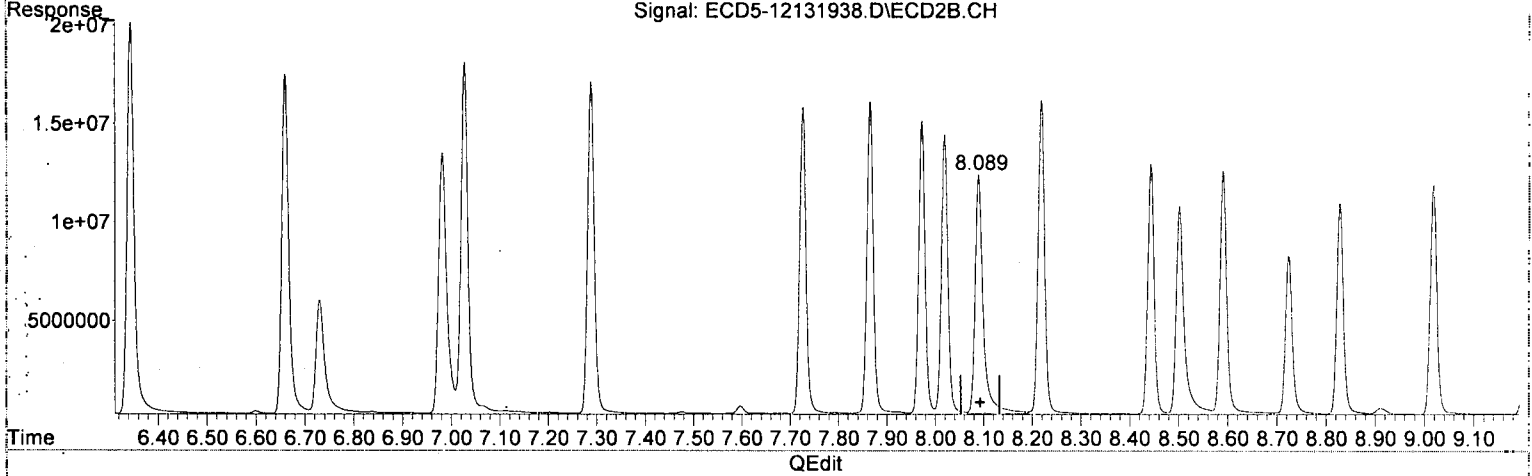
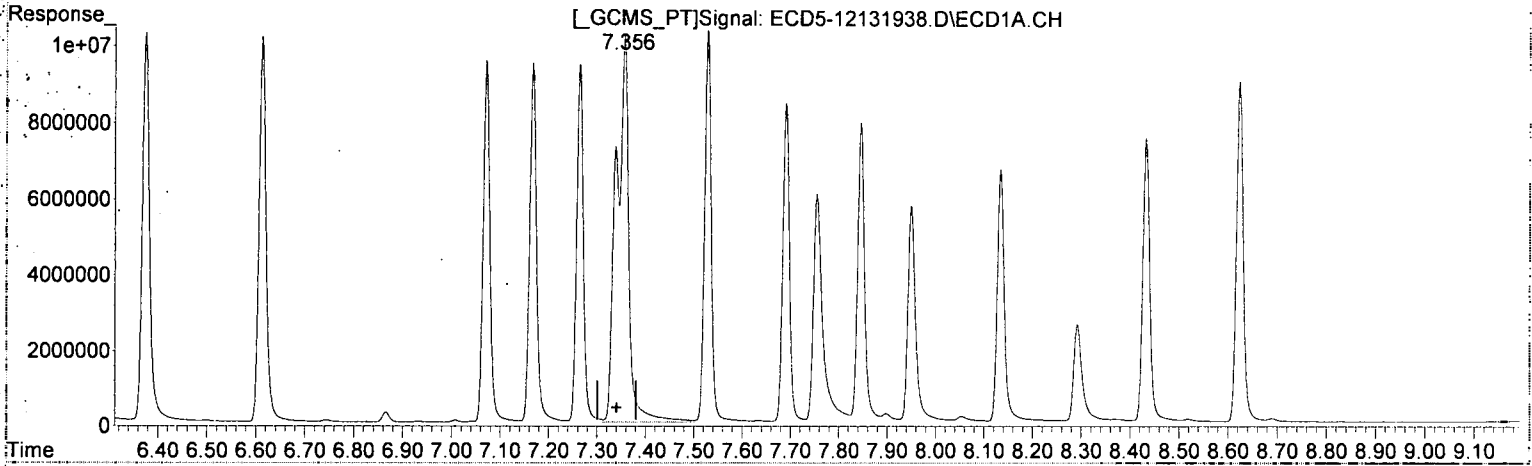
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 12:28:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 22:34  
Operator : MJB  
Sample : 9L13033-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:44:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.355min 54.064 ng/mL  
response 10192721

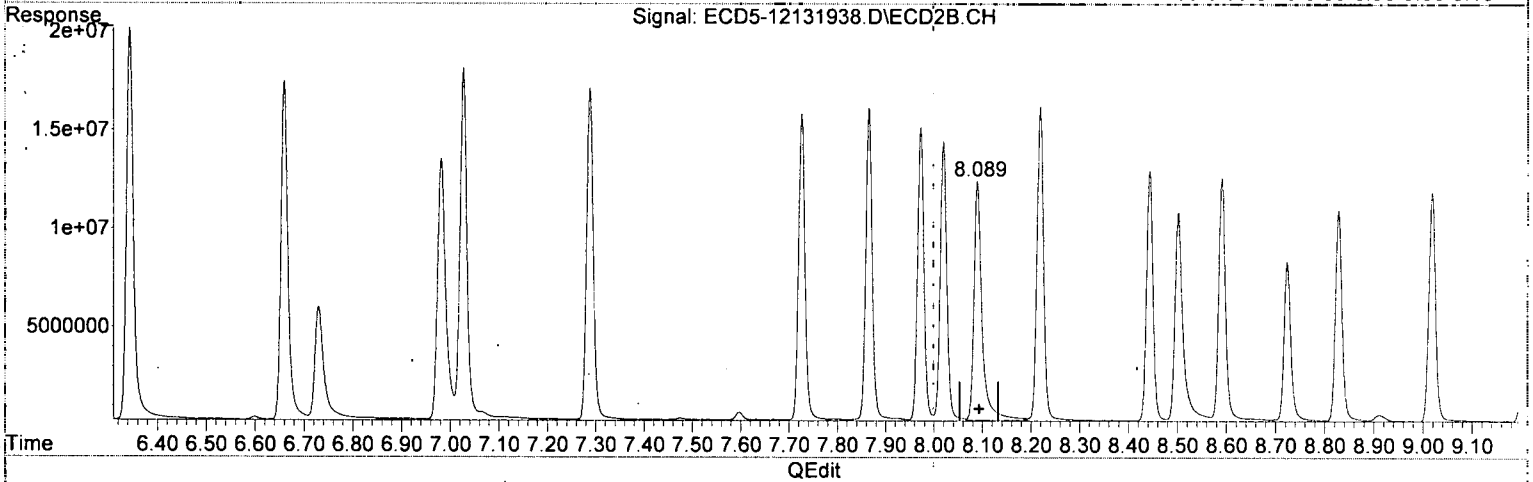
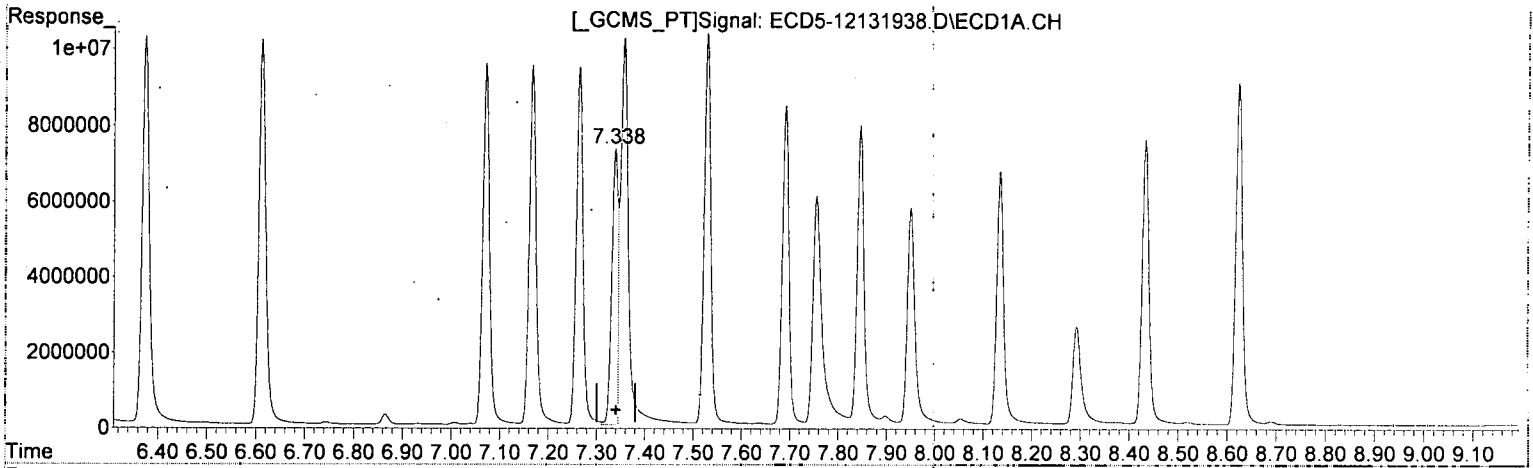
*MJB*  
*12/16/19*

(12) 4,4'-DDE #2  
8.089min 38.999 ng/mL  
response 12116087

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 22:34  
Operator : MJB  
Sample : 9L13033-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:44:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.338min 38.955 ng/mL (m)  
response 7344233

*MJB*  
*12/16/19*

(12) 4,4'-DDE #2  
8.089min 38.999 ng/mL  
response 12116087

Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 22:34  
 Operator : MJB  
 Sample : 9L13033-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 10:44:52 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 Last Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/16/19*

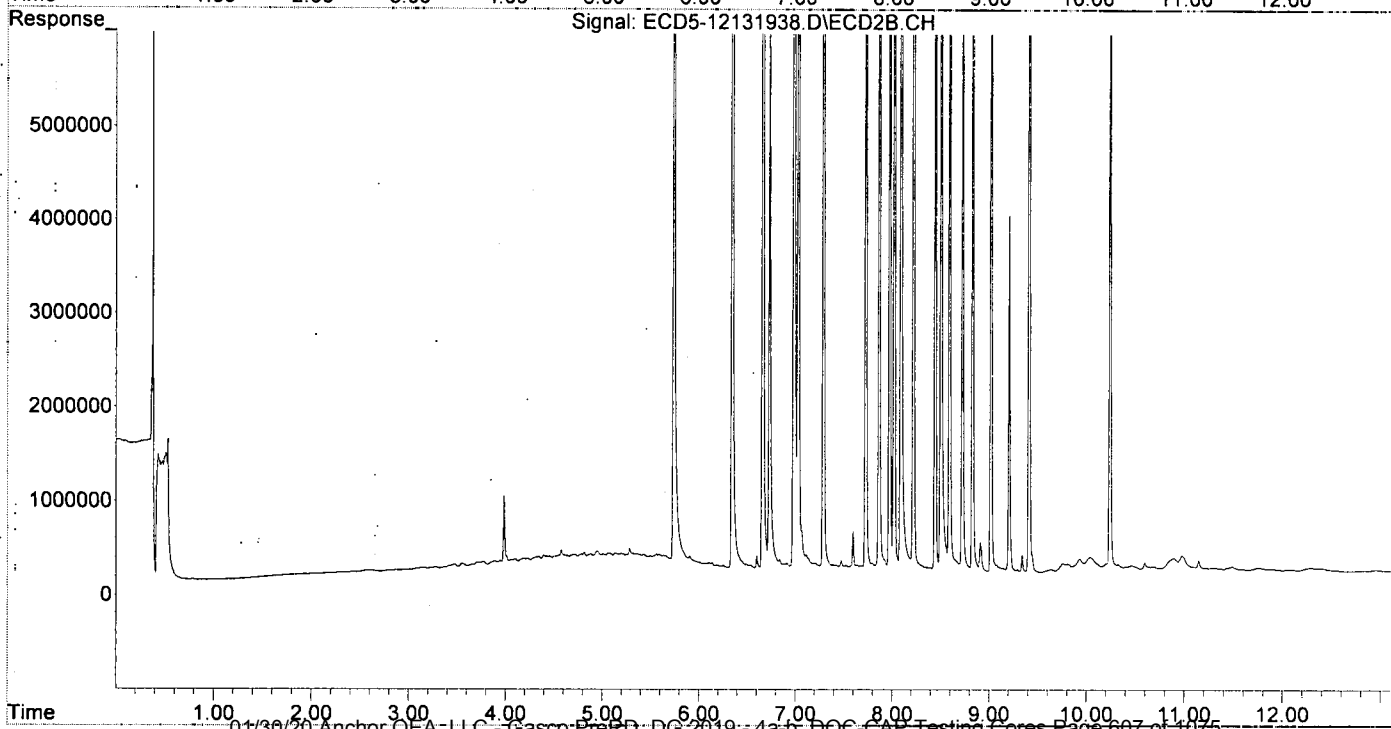
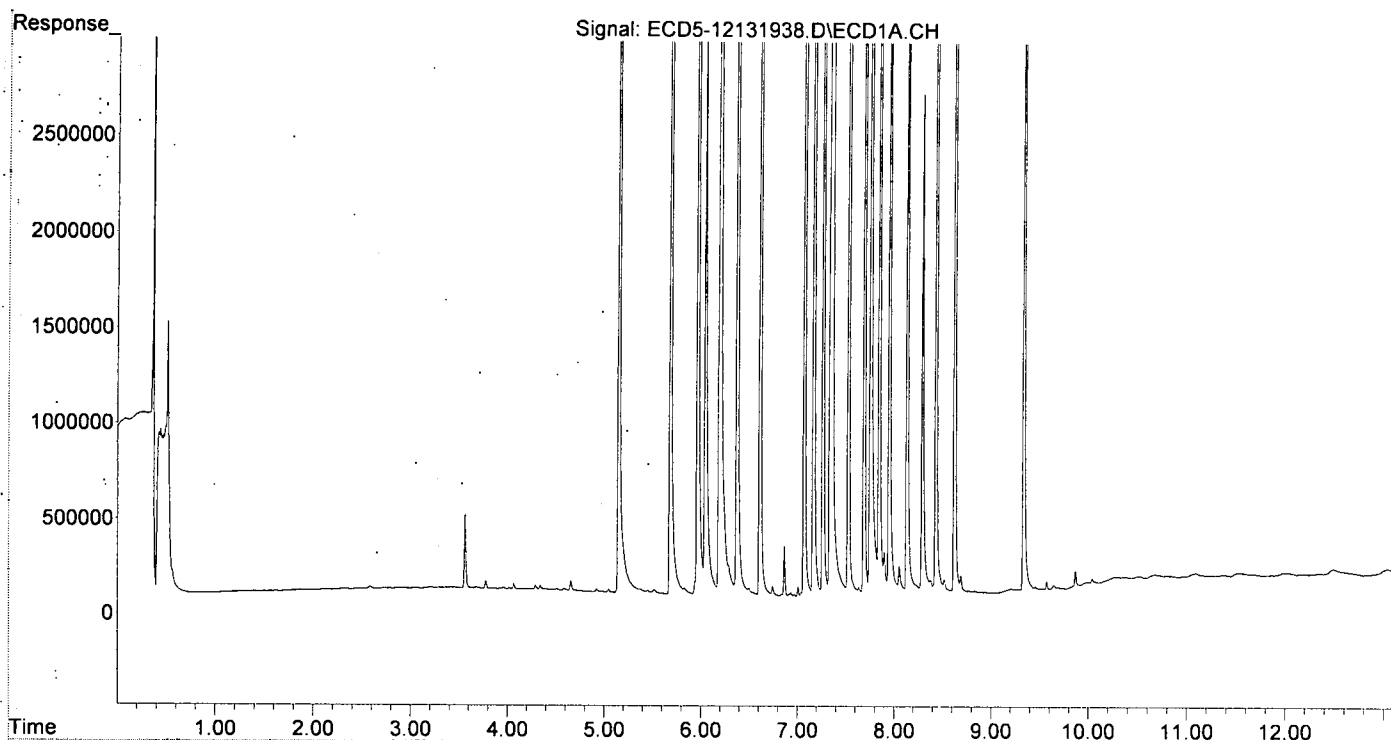
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.152	5.739	7823793	11837535	47.138	40.351
22) S DCBP (S)	9.336	10.238	6653635	9762351	47.156	54.307
<b>Target Compounds</b>						
2) a-BHC	5.685	6.344	11957869	19867420	52.143	48.417
3) g-BHC	5.966	6.660	10017992	17193681	49.649	48.202
4) b-BHC	6.046	6.730	2924241	5751274	32.354	36.339
5) Heptachlor	6.375	7.027	10120869	17817475	55.825	58.231
6) d-BHC	6.194	6.981	6110610	13253171	31.067	37.580
7) Aldrin	6.613	7.288	10079622	16795653	51.050	50.990
8) Heptachlo...	7.071	7.726	9459758	15561016	51.362	51.724
9) trans-Chl...	7.167	7.865	9346077	15834243	50.549	50.536
10) cis-Chlor...	7.264	7.973	9384539	14840155	51.543	50.954
11) Endosulfa...	7.355	8.019	10192721	14153699	59.894	51.435
12) 4,4'-DDE	7.355	8.089	10192721	12116087	54.064	38.999
13) Dieldrin	7.529	8.219	10330505	15899284	53.811	52.274
14) Endrin	7.691	8.444	8442026	12708950	57.418	56.277
15) 4,4'-DDD	7.756	8.502	5991184	10545659	38.126	41.160
16) Endosulfa...	7.846	8.591	7912084	12349166	55.094	53.551
17) 4,4'-DDT	7.950	8.724	5542241	8098102	46.355	43.554
18) Endrin Al...	8.134	8.828	6677645	10708420	54.328	54.262
19) Endosulfa...	8.433	9.018	7524742	11659530	48.554	46.809
20) Methoxychlor	8.293	9.205	2592254	3795611	44.256	42.908
21) Endrin Ke...	8.624	9.410	9046227	13288434	54.247	51.642
23) Hexachlor...	2.953	3.472f	9673	27729	0.053	0.074
24) Hexachlor...	5.519	0.000	20893	0	0.119	N.D. #
25) Oxychlordane	7.008	7.674	49900	10659	0.303	0.039 #
26) 2,4'-DDE	7.071	7.865	9459758	15834243	73.754	74.641
27) trans-Non...	7.264	7.922	9384539	74673	52.095	0.248 #
28) 2,4'-DDD	0.000	8.219f	0	15899284	N.D.	84.184 #
29) 2,4'-DDT	7.636	8.444	42069	12708950	0.384	71.263 #
30) cis-Nonac...	7.755f	8.502	5991184	10545659	28.857	31.437
31) Mirex	0.000	9.410	0	13288434	N.D.	71.415 #
32) Chlordane...	7.264f	7.922	9384539	74673	476.624	2.064 #
33) Chlordane...	7.355f	8.019f	10192721	14153699	406.663	466.133
34) Chlordane...	7.846	8.724f	7912084	8098102	1368.607	903.213
35) Chlordane...	3.470	3.415	10893	18126	NoCal	NoCal
36) Toxaphene...	7.264f	0.000	9384539	0	10477.939	N.D. #
37) Toxaphene...	0.000	8.591f	0	12349166	N.D.	3752.377 #
38) Toxaphene...	0.000	8.648	0	108400	N.D.	21.388 #
39) Toxaphene...	8.134	8.724	6677645	8098102	2060.905	969.852 #
40) Toxaphene...	0.000	8.912	0	303900	N.D.	65.210 #
41) Toxaphene...	8.433	9.290f	7524742	22459	2377.799	4.728 #
42) Toxaphene...	3.470	3.415f	10893	18126	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 22:34  
Operator : MJB  
Sample : 9L13033-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:44:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131939.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 22:51  
 Operator : MJB  
 Sample : 9L13033-CCV6  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 10:44:59 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

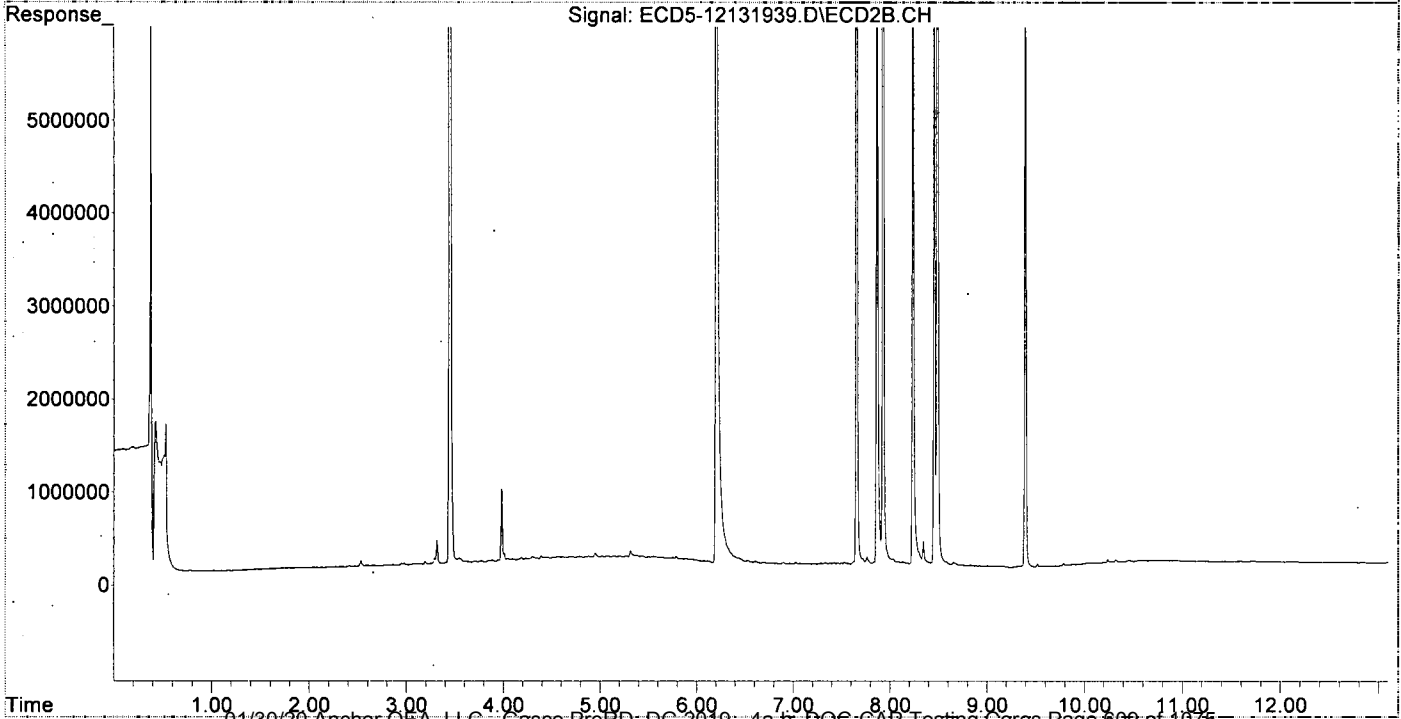
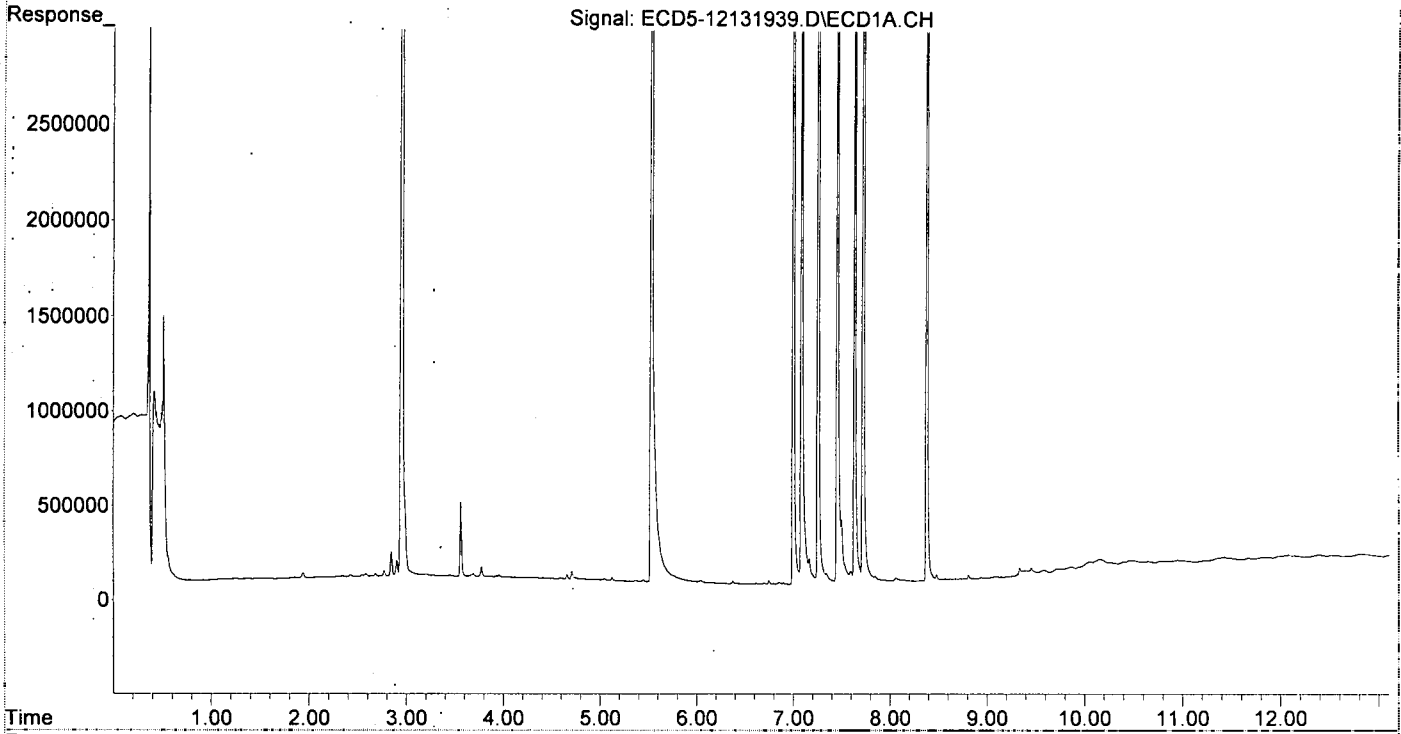
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.125f	5.753	17670	9681	0.106	0.033 #
2) S DCBP (S)	9.339	10.239	45055	37779	0.319	0.210
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.695f	0	11960	N.D.	0.034 #
4) b-BHC	6.040	6.695f	12780	11960	0.141	0.076 #
5) Heptachlor	6.375	7.026	13590	17545	0.075	0.057
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.619	7.286	3445	11125	0.017	0.034 #
8) Heptachlo...	7.087	7.764f	4813515	81085	26.135	0.270 #
9) trans-Chl...	7.166	7.866	132061	8642918	0.714	27.584 #
10) cis-Chlor...	7.258	0.000	9047022	0	49.689	N.D. #
11) Endosulfa...	0.000	8.037	0	65641	N.D.	0.239 #
12) 4,4'-DDE	0.000	8.132f	0	34668	N.D.	0.112 #
13) Dieldrin	0.000	8.237	0	7451838	N.D.	24.501 #
14) Endrin	7.724f	8.457	10017016	7861907	68.130	34.814 #
15) 4,4'-DDD	7.724f	8.491	10017016	16470663	63.746	64.285
16) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.144	0.000	8744	0	BelowCal	N.D.
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.631	9.395	4355	9209681	0.026	35.791 #
23) Hexachlor...	2.950	3.446	9836774	20988777	53.830	55.831
24) Hexachlor...	5.531	6.203	7910273	12340111	44.870	39.289
25) Oxychlorane	7.002	7.655	7826025	12726405	47.564	46.463
26) 2,4'-DDE	7.087	7.866	4813515	8642918	37.529	40.742
27) trans-Non...	7.258	7.929	9047022	14840767	50.209	49.201
28) 2,4'-DDD	7.457	8.237	4176800	7451838	36.598	39.456
29) 2,4'-DDT	7.637	8.457	4963279	7861907	45.249	44.084
30) cis-Nonac...	7.724	8.491	10017016	16470663	48.248	49.100
31) Mirex	8.382	9.395	6077183	9209681	48.475	49.495
32) Chlordane...	7.258f	7.929	9047022	14840767	459.482	410.141
33) Chlordane...	0.000	8.037	0	65641	N.D.	2.162 #
34) Chlordane...	0.000	0.000	0	0	N.D.	N.D.
35) Chlordane...	3.446	3.446	5847	20988777	NoCal	NoCal
36) Toxaphene...	0.000	8.237f	0	7451838	N.D.	2839.598 #
37) Toxaphene...	0.000	8.656f	0	31292	N.D.	9.508 #
38) Toxaphene...	0.000	8.656	0	31292	N.D.	6.174 #
39) Toxaphene...	8.144	0.000	8744	0	2.699	N.D. #
40) Toxaphene...	8.382	0.000	6077183	0	2535.178	N.D. #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.446	3.446	5847	20988777	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131939.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 22:51  
Operator : MJB  
Sample : 9L13033-CCV6  
Misc : A19J408, 9-42 50 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:44:59 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L13033\  
 Data File : ECD5-12131940.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 13 Dec 2019 23:08  
 Operator : MJB  
 Sample : 9L13033-CCB3  
 Misc : A19L018  
 ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 16 10:45:06 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 Last Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/16/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.151	5.737	16346954	27672217	98.490	94.326
22) S DCBP (S)	9.337	10.239	14071960	20646124	99.731	114.852
<b>Target Compounds</b>						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.697f	0	18673	N.D.	0.052 #
4) b-BHC	6.042	6.697f	7433	18673	0.082	0.118 #
5) Heptachlor	0.000	7.006f	0	11582	N.D.	0.038 #
6) d-BHC	0.000	7.006f	0	11582	N.D.	0.033 #
7) Aldrin	6.618	7.270f	4558	7404	0.023	0.022
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	7.159	7.903f	33435	12332	0.181	0.039 #
10) cis-Chlor...	7.271	0.000	5658	0	0.031	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	7.314f	0.000	4015	0	0.021	N.D. #
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	7.770	0.000	1601	0	0.010	N.D. #
16) Endosulfa...	7.849	8.584	11090	10002	0.077	0.043 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.136	0.000	4979	0	BelowCal	N.D.
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	8.289	0.000	2762	0	0.047	N.D. #
21) Endrin Ke...	8.652f	0.000	1812	0	0.011	N.D. #
23) Hexachlor...	2.952	3.474f	9172	25945	0.050	0.069
24) Hexachlor...	5.530	0.000	27058	0	0.153	N.D. #
25) Oxychlordane	7.007	7.674	8209	9800	0.050	0.036
26) 2,4'-DDE	0.000	7.838f	0	9727	N.D.	0.046 #
27) trans-Non...	7.271	7.919	5658	10718	87346.669	0.036 #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	7.649	0.000	2847	0	0.026	N.D. #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.396	0.000	5458	0	0.044	N.D. #
32) Chlordane...	0.000	7.919	0	10718	N.D.	0.296 #
33) Chlordane...	7.314	0.000	4015	0	0.160	N.D. #
34) Chlordane...	7.849	0.000	11090	0	1.918	N.D. #
35) Chlordane...	0.000	3.412f	0	21857	N.D.	NoCal
36) Toxaphene...	7.314	0.000	4015	0	4.483	N.D. #
37) Toxaphene...	0.000	8.584f	0	10002	N.D.	3.039 #
38) Toxaphene...	0.000	8.657	0	29437	N.D.	5.808 #
39) Toxaphene...	8.136	0.000	4979	0	1.537	N.D. #
40) Toxaphene...	8.396f	0.000	5458	0	2.277	N.D. #
41) Toxaphene...	8.396f	9.270	5458	8214	1.725	1.729
42) Toxaphene...	0.000	3.412f	0	21857	N.D.	NoCal

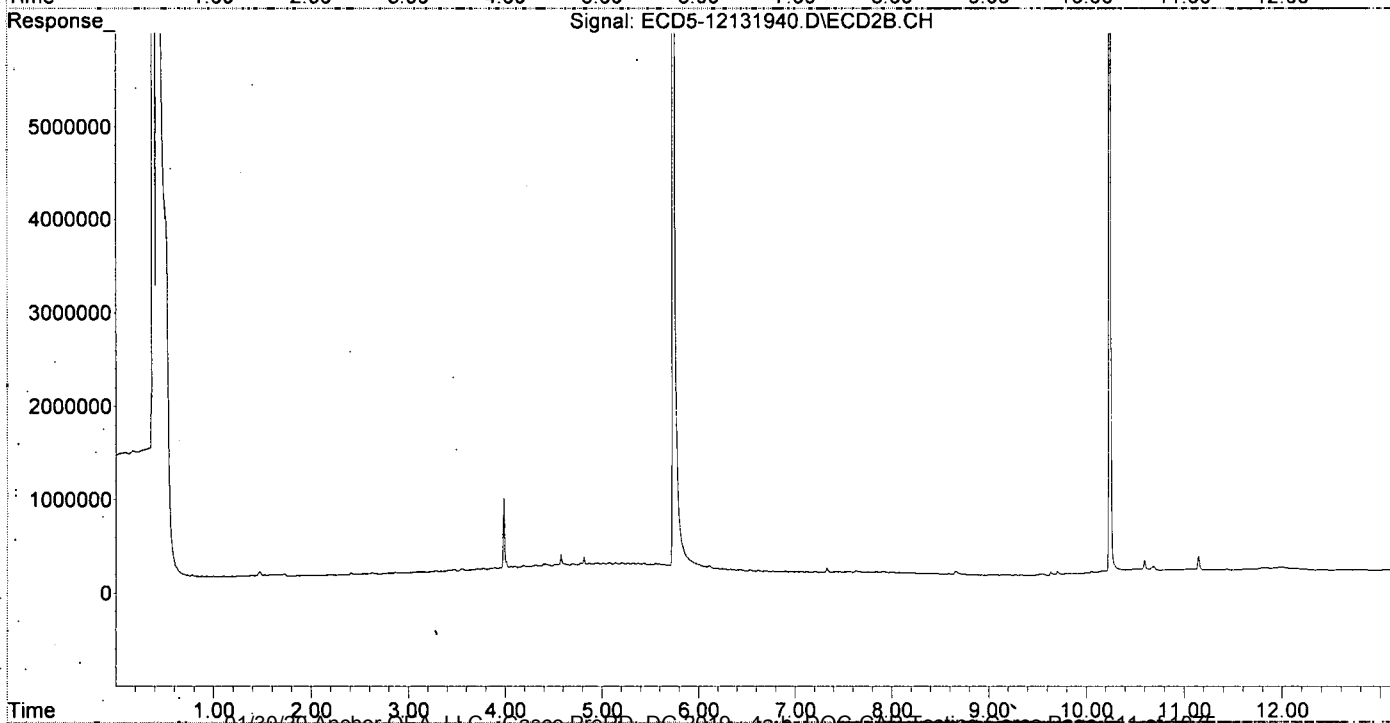
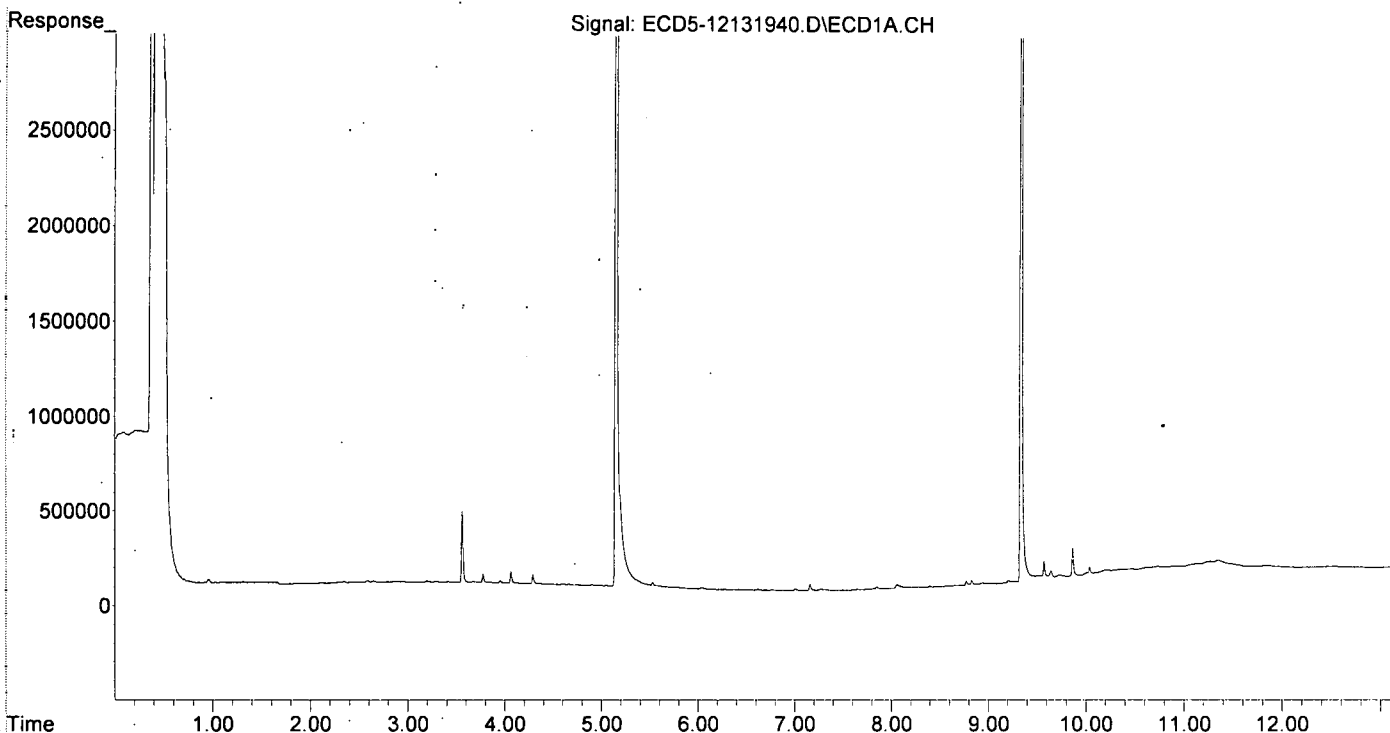
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L13033\  
Data File : ECD5-12131940.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 13 Dec 2019 23:08  
Operator : MJB  
Sample : 9L13033-CCB3  
Misc : A19L018  
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 16 10:45:06 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B  
Benchsheet & Analysis Sequence Data**

Sequence 9L12029 (QC Only)



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L12029**

Instrument: **DUALECD5**

Date: **12/12/19 10:58**

Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L12029-BKD1	Water	QC	QC				A19J201
2	9L12029-CCV1	Water	QC	QC				A19K133
3	9L12029-CCB1	Water	QC	QC				A19L018
4	9L12029-BKD2	Water	QC	QC				A19J201
5	9L12029-CCV2	Water	QC	QC				A19K133
6	9L12029-CCB2	Water	QC	QC				A19L018
7	9120706-BLK2	Water	QC	QC		9120706		
8	9120706-BS2	Water	QC	QC		9120706		
9	9120706-BSD2	Water	QC	QC		9120706		
10	A9L0193-01RE1	Water	608 Pesticides (TTO) <i>f</i>		12/11/19	9120706		
11	9L12029-IBL1	Water	QC	QC				
12	9L12029-IBL2	Water	QC	QC				
13	9L12029-CCV3	Water	QC	QC				A19K134
14	9L12029-CCV4	Water	QC	QC				A19J409
15	9L12029-CCB3	Water	QC	QC				A19L018
16	A9J0360-24RE2	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
17	9L12029-IBL3	Water	QC	QC				
18	A9J0553-08RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
19	9L12029-IBL4	Water	QC	QC				
20	A9J0594-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/11/19	9120580		
21	9L12029-IBL5	Water	QC	QC				
22	9120780-BLK1	Sediment	QC	QC		9120780		
23	9120780-BS1	Sediment	QC	QC		9120780		
24	A9J0095-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
25	9L12029-IBL6	Water	QC	QC				
26	A9J0095-15RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
27	9L12029-IBL7	Water	QC	QC				
28	A9J0095-33RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
29	9L12029-IBL8	Water	QC	QC				
30	A9J0095-14RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
31	9L12029-IBL9	Water	QC	QC				
32	A9J0095-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	12/16/19	9120780		
33	9L12029-IBLA	Water	QC	QC				
34	9L12029-CCV5	Water	QC	QC				A19K133
35	9L12029-CCV6	Water	QC	QC				A19J408
36	9L12029-CCB4	Water	QC	QC				A19L018
37	9L12029-IBLB	Water	QC	QC				

Data Entered By: *MB* 12/13/19

Comments: \* *TTO Reviewed 12/13/19 ASJ*

Data Reviewed By: *MVA* 12/16/19

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
 Data File : ECD5-12121903.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 11:45  
 Operator : MJB  
 Sample : 9L12029-BKD1  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:45:35 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.354	901524	NoCal	ng/mL
2) Endrin	7.709	78441831	NoCal	ng/mL
3) 4,4'-DDD	7.771	13660945	NoCal	ng/mL
4) 4,4'-DDT	7.967	118267875	NoCal	ng/mL
5) Endrin Aldehyde	8.152	1557956	NoCal	ng/mL
6) Endrin Ketone	8.643	7405919	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.107	1618265	NoCal	ng/mL
9) Endrin [2C]	8.463	114553808	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.519	21248712	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.848	2082280	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.742	158320699	NoCal	ng/mL
13) Endrin Ketone [2C]	9.429	9827417	NoCal	ng/mLm

(f)=RT Delta > 1/2 Window

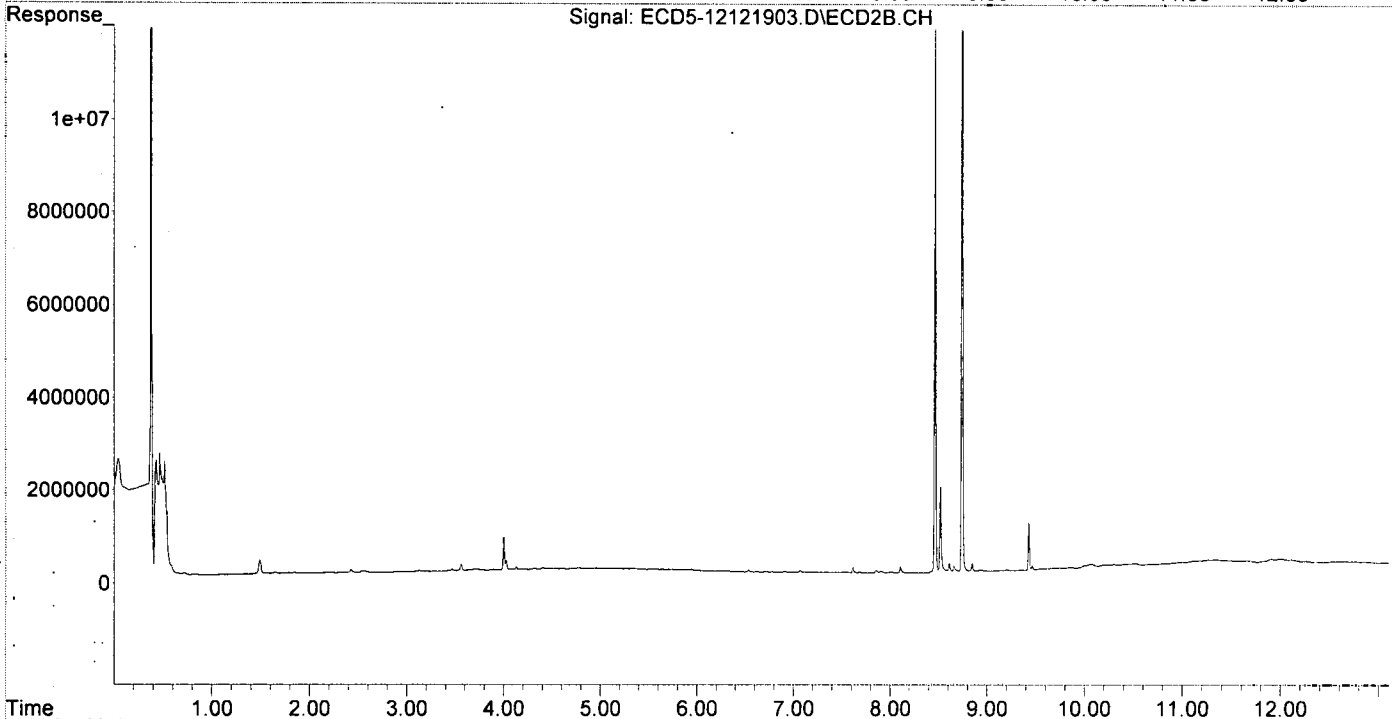
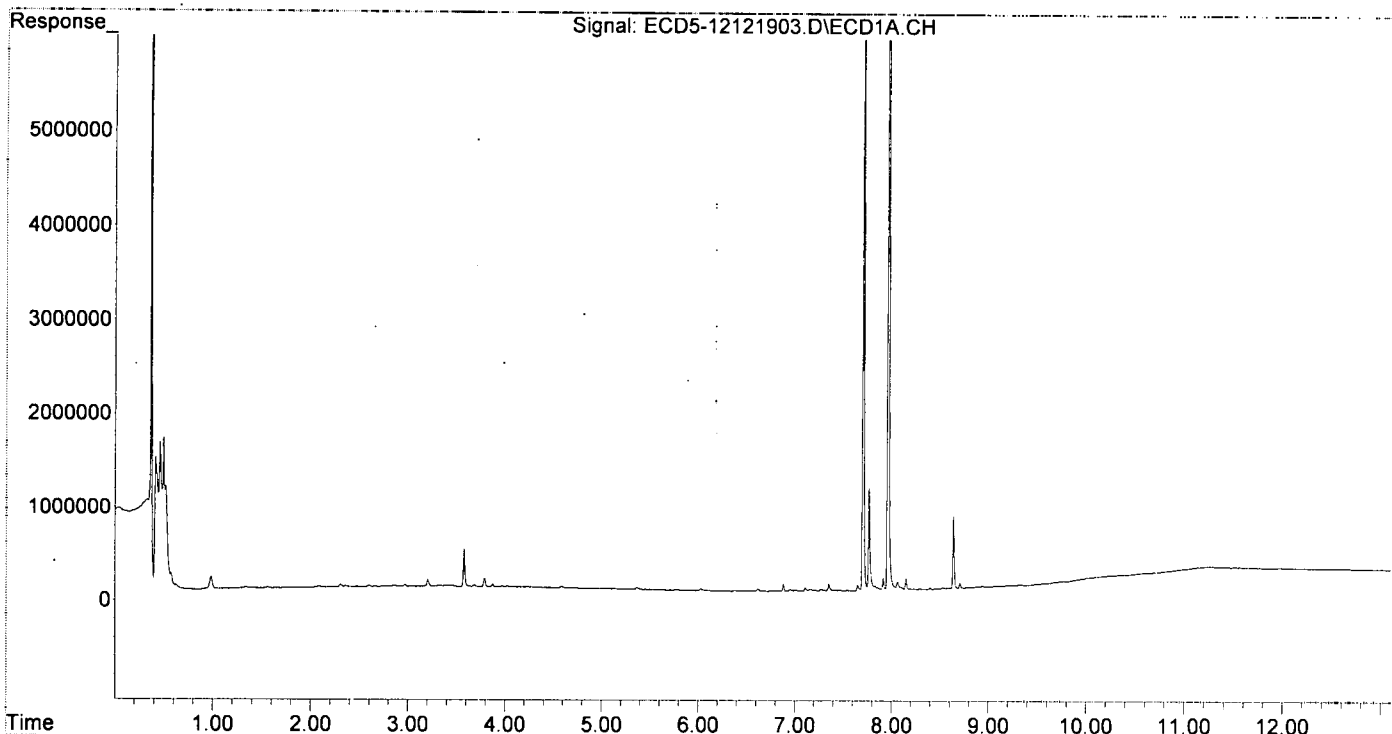
(m)=manual int.

*Passed, but CV failed.  
 maintenance performed.*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
Data File : ECD5-12121903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 11:45  
Operator : MJB  
Sample : 9L12029-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

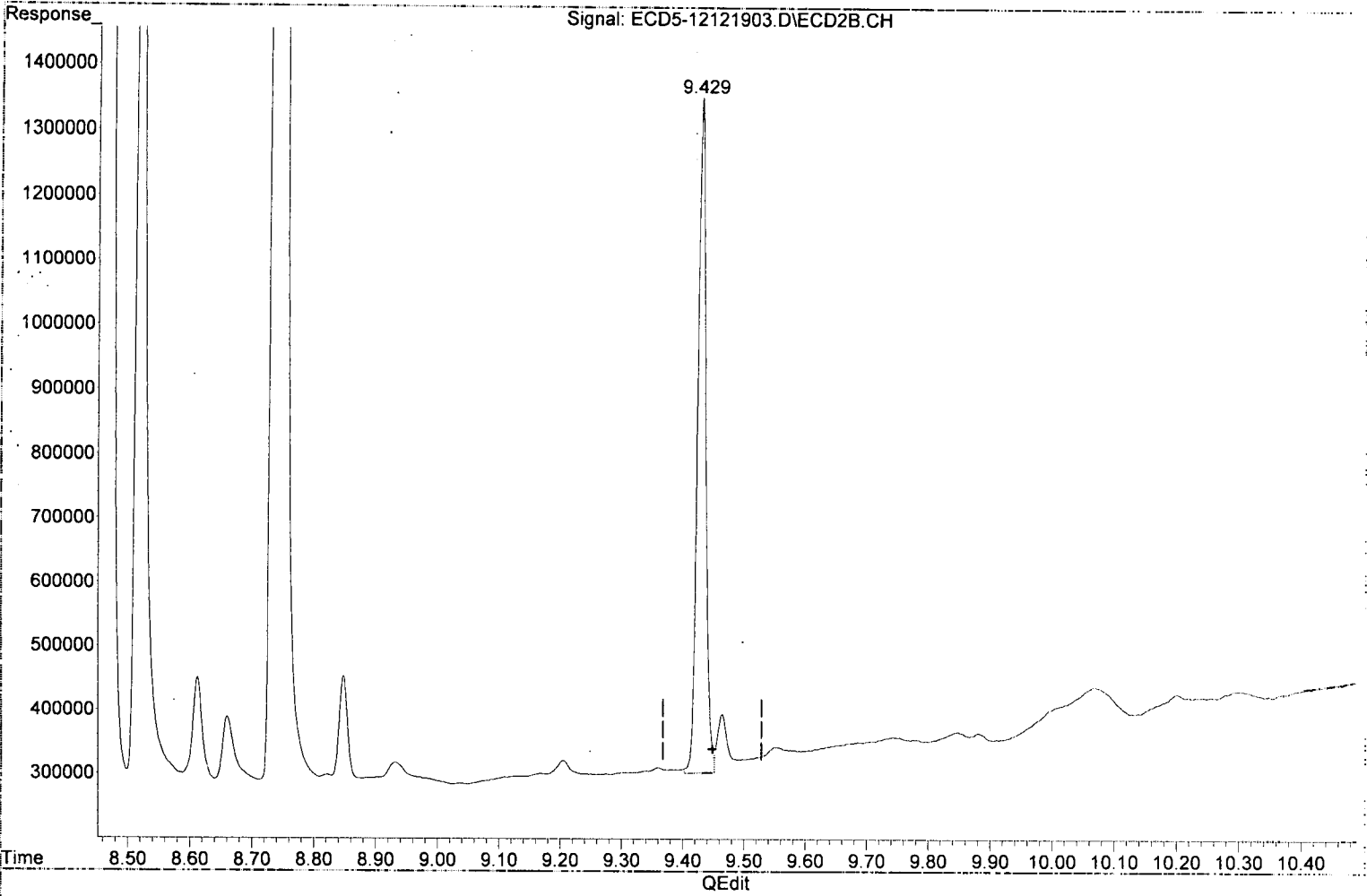
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:45:35 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
Data File : ECD5-12121903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 11:45  
Operator : MJB  
Sample : 9L12029-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:45:16 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(13) Endrin Ketone [2C]

9.429min 0.000 ng/mL(m)

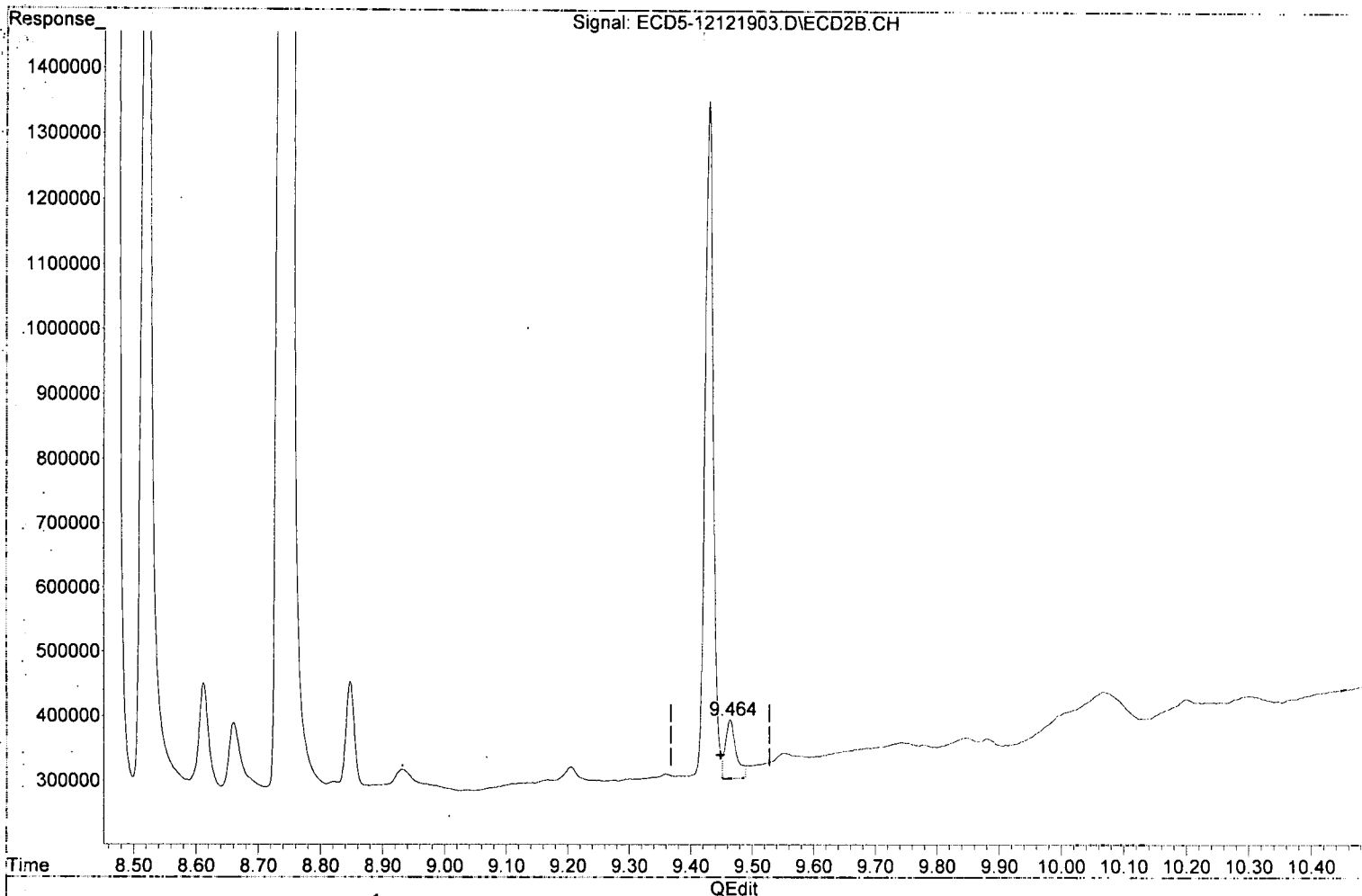
response 9827417

*MJB 12/12/19*

Quantitation Report (Qedit)

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
Data File : ECD5-12121903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 11:45  
Operator : MJB  
Sample : 9L12029-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:45:16 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(13) Endrin Ketone [2C]  
9.464min 0.000 ng/mL  
response 1098302

*MJB*  
*12/14/19*

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
 Data File : ECD5-12121903.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 11:45  
 Operator : MJB  
 Sample : 9L12029-BKD1  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:45:16 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*(Handwritten)*  
 MJB  
 12/12/19

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.354	901524	NoCal	ng/mL
2) Endrin	7.709	78441831	NoCal	ng/mL
3) 4,4'-DDD	7.771	13660945	NoCal	ng/mL
4) 4,4'-DDT	7.967	118267875	NoCal	ng/mL
5) Endrin Aldehyde	8.152	1557956	NoCal	ng/mL
6) Endrin Ketone	8.643	7405919	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.107	1618265	NoCal	ng/mL
9) Endrin [2C]	8.463	114553808	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.519	21248712	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.848	2082280	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.742	158320699	NoCal	ng/mL
13) Endrin Ketone [2C]	9.464	1098302	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

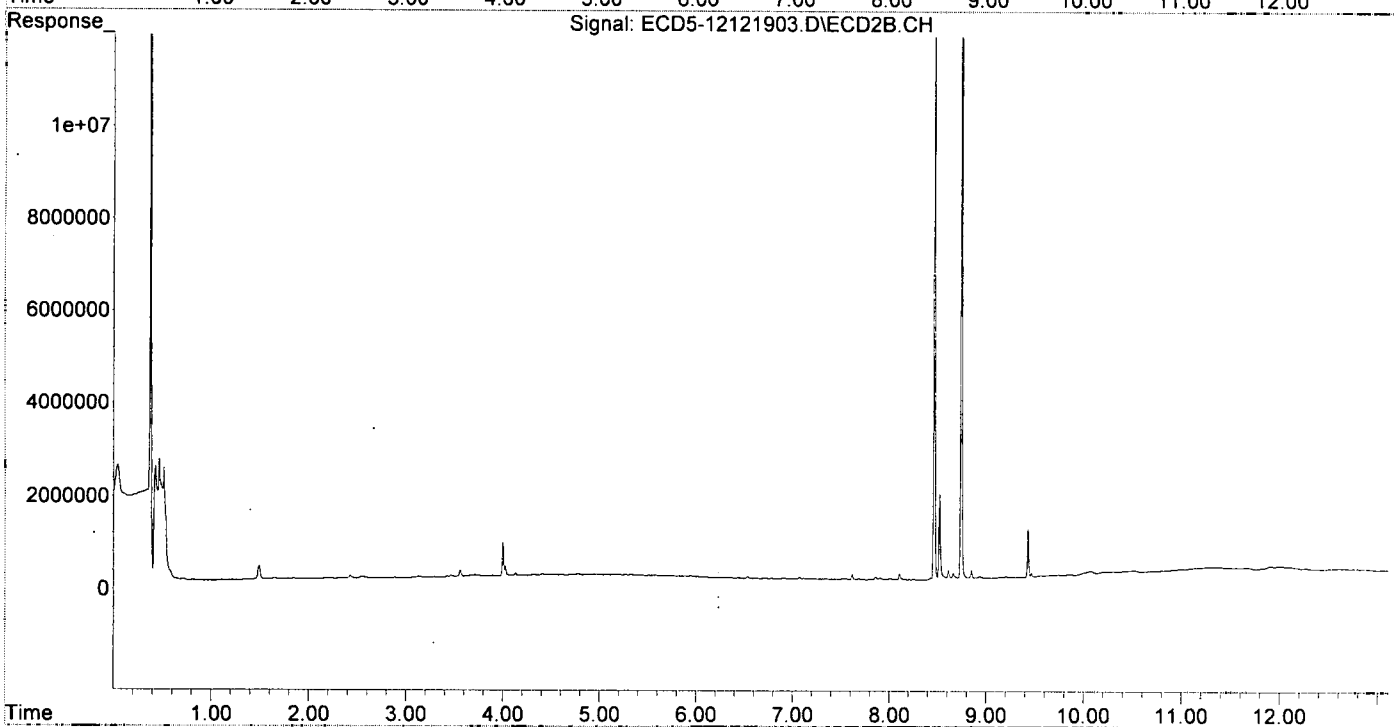
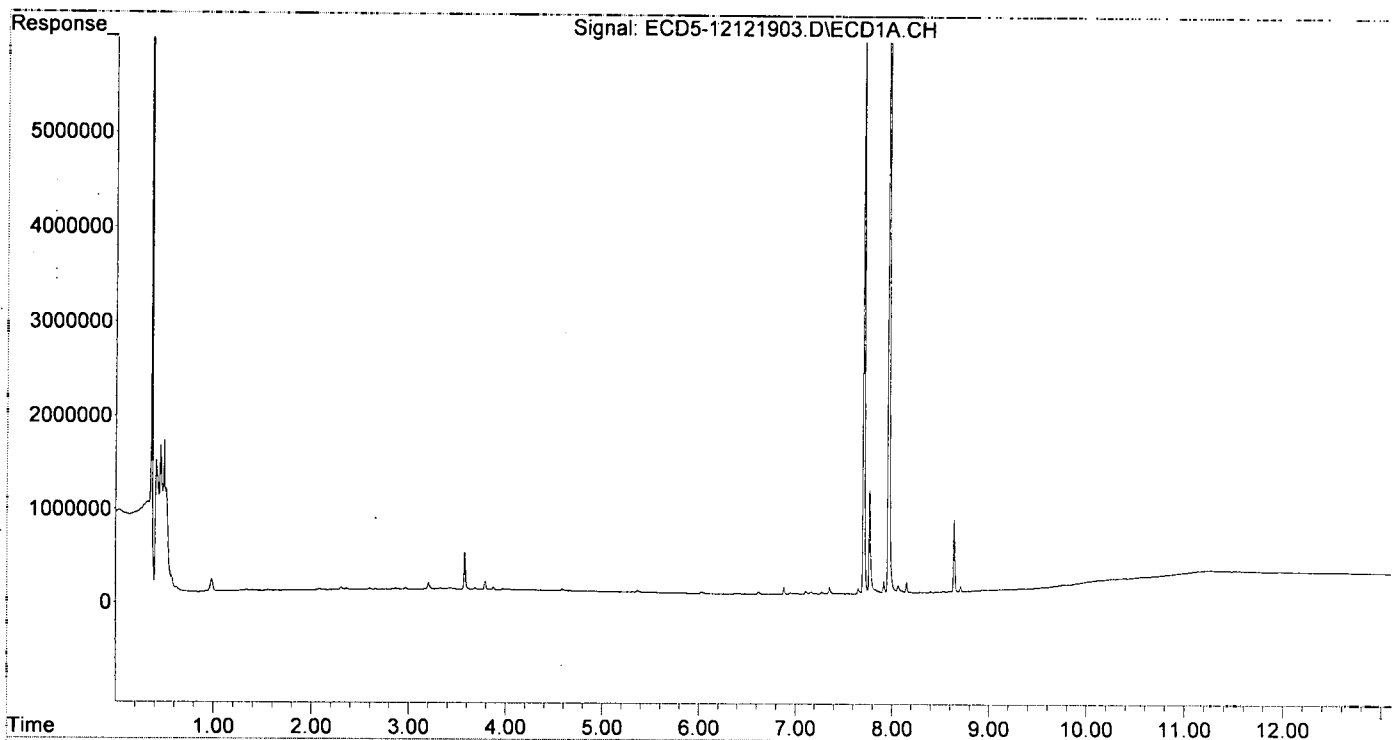
(m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
Data File : ECD5-12121903.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 11:45  
Operator : MJB  
Sample : 9L12029-BKD1  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:45:16 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RT9.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Pesticide BKD

**Pesticide Breakdown Check (Validated 8/8/2013)**

Sequence: 9L12029 BKD2  
Data File: ECD5-12121907.D

First Column Area Counts		Percent Breakdown	
DDE	610442		
DDD	9242115		
DDT	123765618	<b>7.37</b>	<b>PASS</b>
Endrin	76539636	<b>11.09</b>	<b>PASS</b>
Endrin Aldehyde	2040839		
Endrin Ketone	7501851		

Second Column Area Counts		Percent Breakdown	
DDE	1316139		
DDD	14516109		
DDT	171023306	<b>8.47</b>	<b>PASS</b>
Endrin	116090712	<b>10.27</b>	<b>PASS</b>
Endrin Aldehyde	3169365		
Endrin Ketone	10116245		

Breakdown must be less than 15% to accept sample data.

*MB 12/12/19*

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
 Data File : ECD5-12121907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 13:07  
 Operator : MJB  
 Sample : 9L12029-BKD2  
 Misc : A19J201  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:46:59 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RTA.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.342	610442	NoCal	ng/mL
2) Endrin	7.699	76539636	NoCal	ng/mL
3) 4,4'-DDD	7.760	9242115	NoCal	ng/mL
4) 4,4'-DDT	7.956	123765618	NoCal	ng/mL
5) Endrin Aldehyde	8.142	2040839	NoCal	ng/mL
6) Endrin Ketone	8.632	7501851	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.096	1316139	NoCal	ng/mL
9) Endrin [2C]	8.453	116090712	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.509	14516109	NoCal	ng/mL
11) Endrin Aldehyde [2C]	8.837	3169365	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.732	171023306	NoCal	ng/mL
13) Endrin Ketone [2C]	9.420	10116245	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

(m)=manual int.

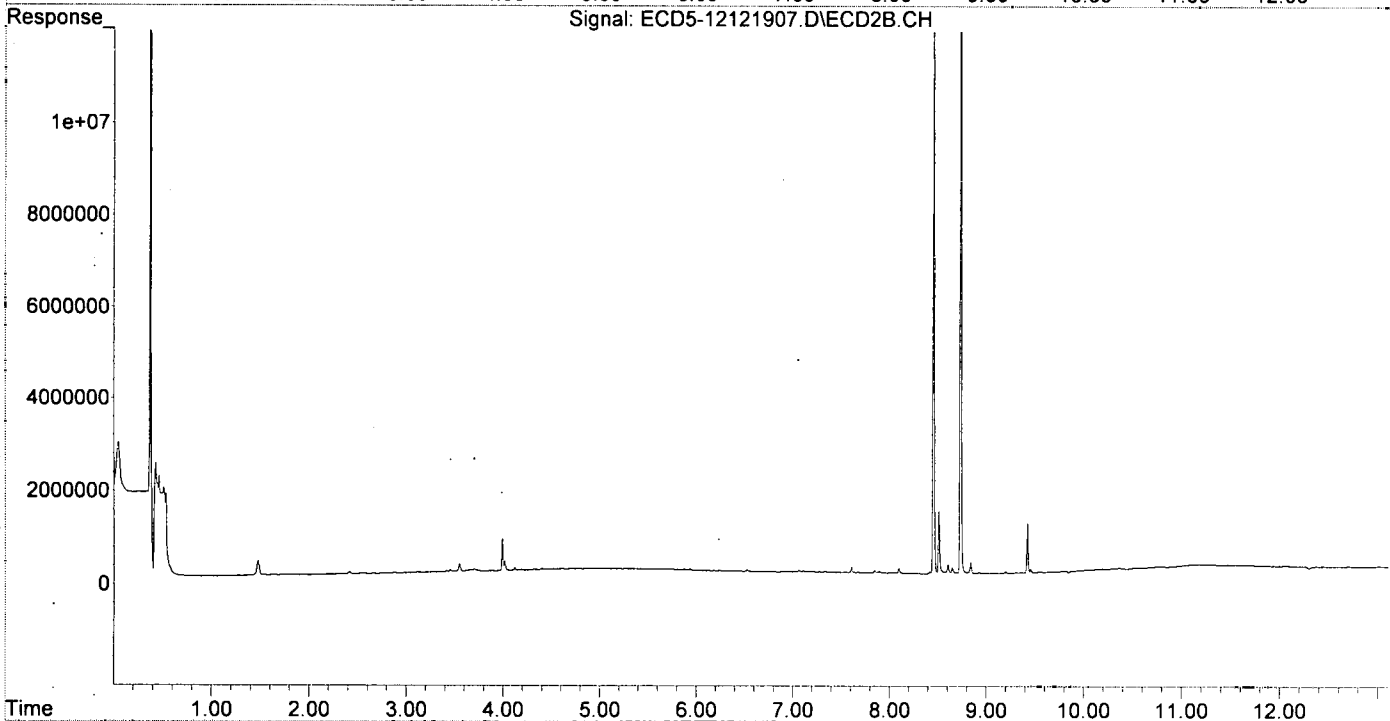
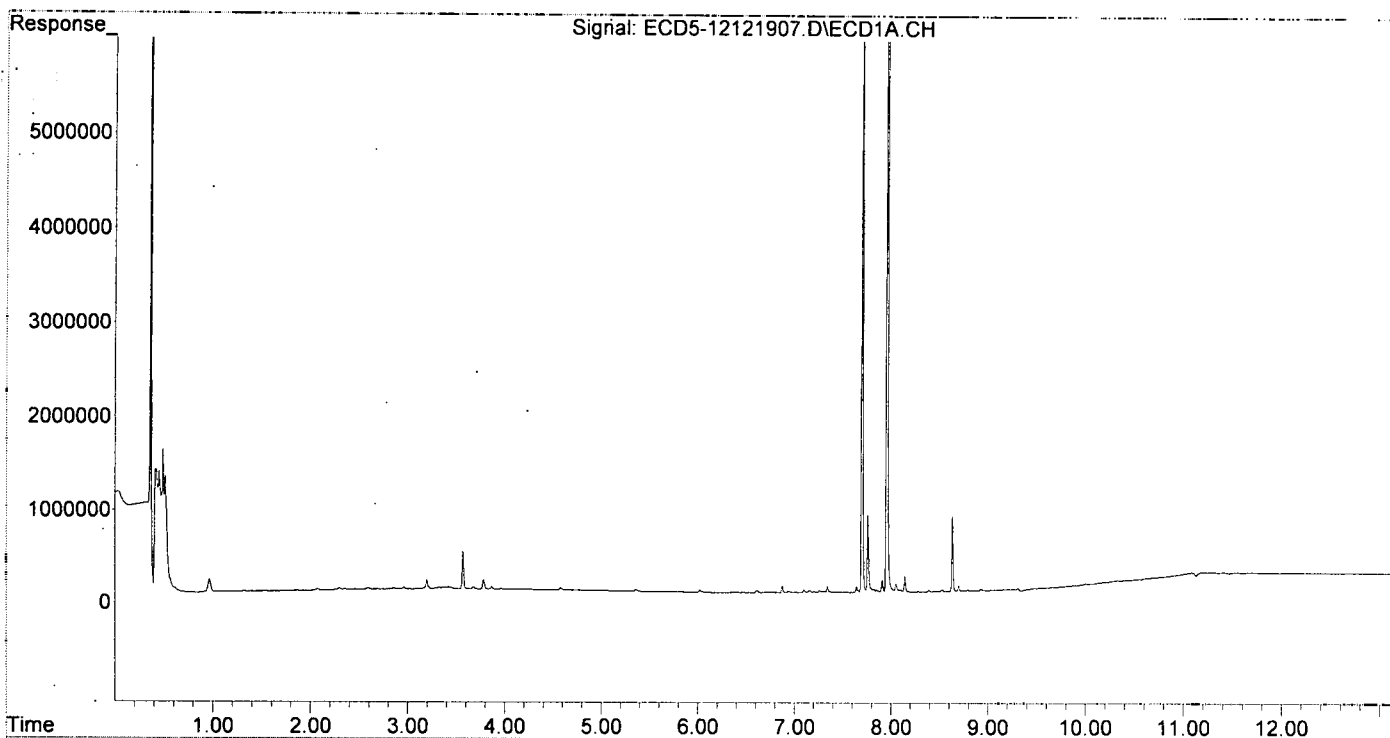
*Cut ~ 6" off guard column.*

*MJB 12/12/19*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-12\9L12029\  
Data File : ECD5-12121907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:07  
Operator : MJB  
Sample : 9L12029-BKD2  
Misc : A19J201  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:46:59 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823RTA.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 12:03  
 Operator : MJB  
 Sample : 9L12029-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:49:20 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q14

MJB  
12/12/19

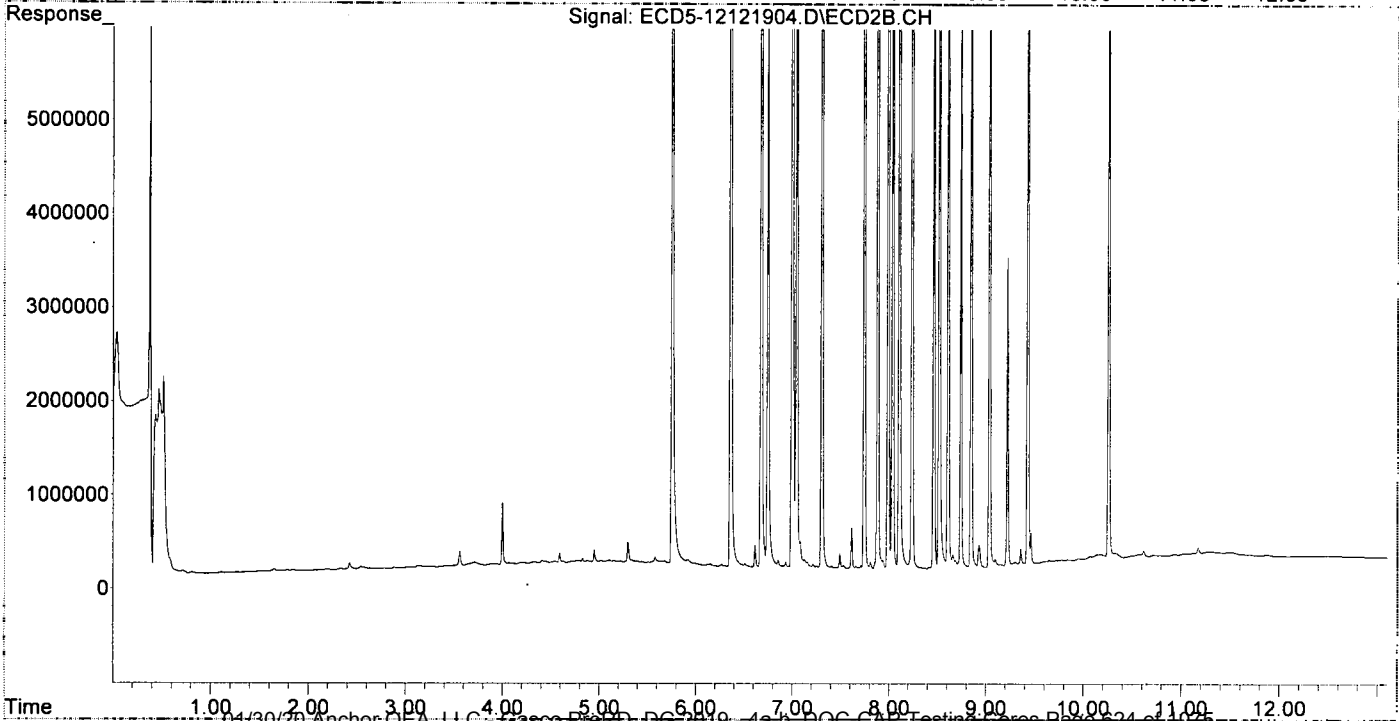
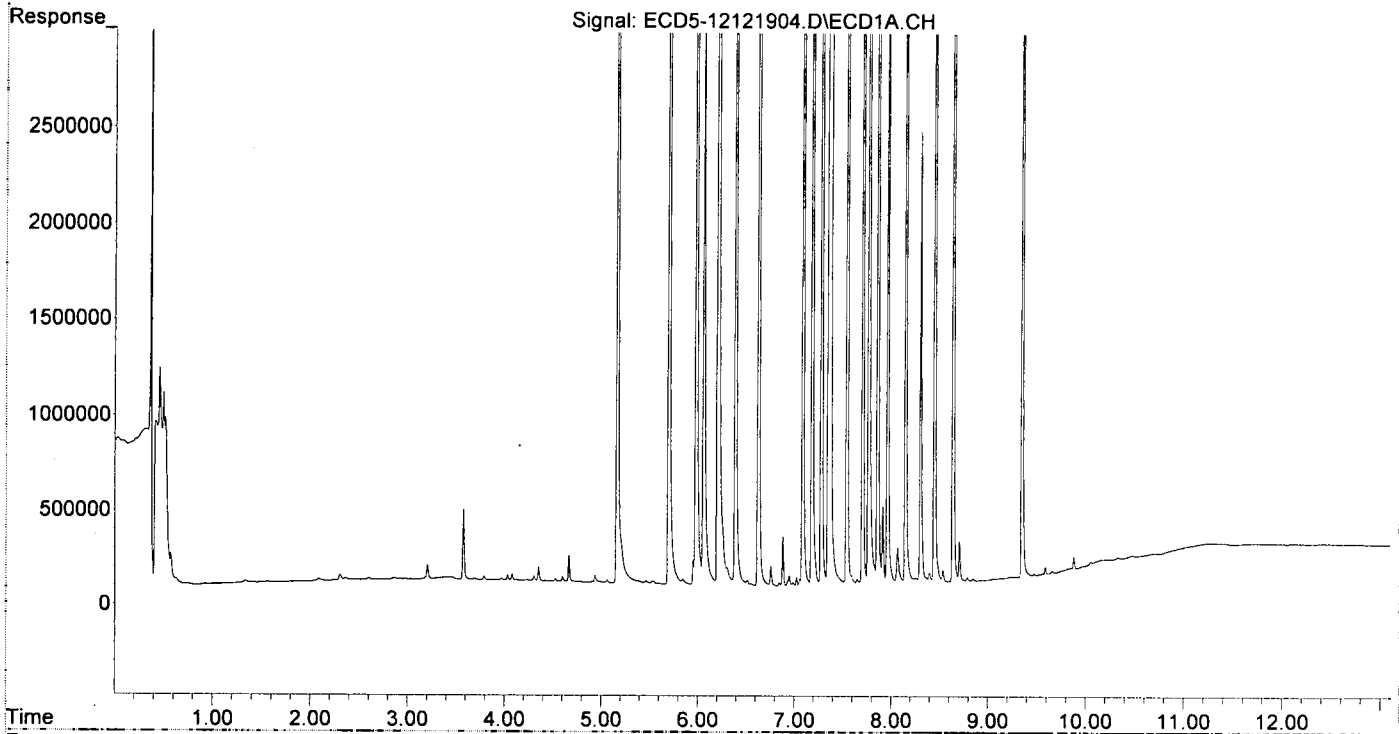
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.168	5.755	8049673	13508252	48.499	46.046
22) S DCBP (S)	9.353	10.258	6587264	9348604	46.686	52.005
Target Compounds						
2) a-BHC	5.702	6.360	11648074	20430892	50.792	49.790
3) g-BHC	5.983	6.677	9515484	17075615	47.158	47.871
4) b-BHC	6.061	6.746	3074751	6466002	34.019	40.855
5) Heptachlor	6.391	7.045	8476275	14288614	46.754	46.698
6) d-BHC	6.209	6.997	6993798	15265303	35.557	43.285
7) Aldrin	6.630	7.306	10002070	17781126	50.657	53.982
8) Heptachlo...	7.089	7.745	9237435	14598930	50.155	48.526
9) trans-Chl...	7.185	7.884	9168176	15304123	49.587	48.844
10) cis-Chlor...	7.282	7.991	8970747	14829080	49.271	50.916
11) Endosulfa...	7.374	8.038	9447728	13714453	55.516m	49.839
12) 4,4'-DDE	7.353	8.106	8130225	14432757	43.124m	46.456
13) Dieldrin	7.546	8.238	9910007	15519861	51.620	51.027
14) Endrin	7.709	8.463	7456945	11308236	50.718	50.075
15) 4,4'-DDD	7.771	8.519	6969880	11419480	44.354	44.570
16) Endosulfa...	7.864	8.610	7169246	11794170	49.921	51.144
17) 4,4'-DDT	7.966	8.742	4661149	6673719	38.986	36.352
18) Endrin Al...	8.152	8.848	6137916	9997265	50.001	50.803
19) Endosulfa...	8.451	9.037	7181438	10645267	46.339	42.737
20) Methoxychlor	8.307	9.222	2316109	3290934	39.541	37.585
21) Endrin Ke...	8.643	9.430	8258512	12042292	49.524	46.800
23) Hexachlor...	2.973	3.492f	15098	9594	0.083	0.026 #
24) Hexachlor...	5.542	0.000	14755	0	0.084	N.D. #
25) Oxychlordane	7.025	7.683	44164	13765	0.268	0.050 #
26) 2,4'-DDE	7.089	7.884	9237435	15304123	72.021	72.142
27) trans-Non...	7.282	7.938	8970747	92788	49.783	0.308 #
28) 2,4'-DDD	0.000	8.238	0	15519861	N.D.	82.175 #
29) 2,4'-DDT	0.000	8.463	0	11308236	N.D.	63.409 #
30) cis-Nonac...	7.771f	8.519	6969880	11419480	33.571	34.042
31) Mirex	8.398	9.430	51176	12042292	0.408	64.718 #
32) Chlordane...	7.282f	7.938	8970747	92788	455.608	2.564 #
33) Chlordane...	7.373f	8.038f	9655710	13714453	385.238	451.667
34) Chlordane...	7.864	8.742f	7169246	6673719	1240.113	744.346
35) Chlordane...	3.435f	3.424f	18334	10558	NoCal	NoCal
36) Toxaphene...	7.282f	0.000	8970747	0	10015.936	N.D. #
37) Toxaphene...	0.000	8.610f	0	11794170	N.D.	3583.737 #
38) Toxaphene...	7.917	8.661	408421	144761	121.284	28.562 #
39) Toxaphene...	8.152	8.742	6137916	6673719	1894.329	799.264 #
40) Toxaphene...	8.398	8.930	51176	238790	21.349	51.239 #
41) Toxaphene...	8.451	9.304	7181438	39508	2269.316	8.317 #
42) Toxaphene...	3.435f	3.492f	18334	9594	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:03  
Operator : MJB  
Sample : 9L12029-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

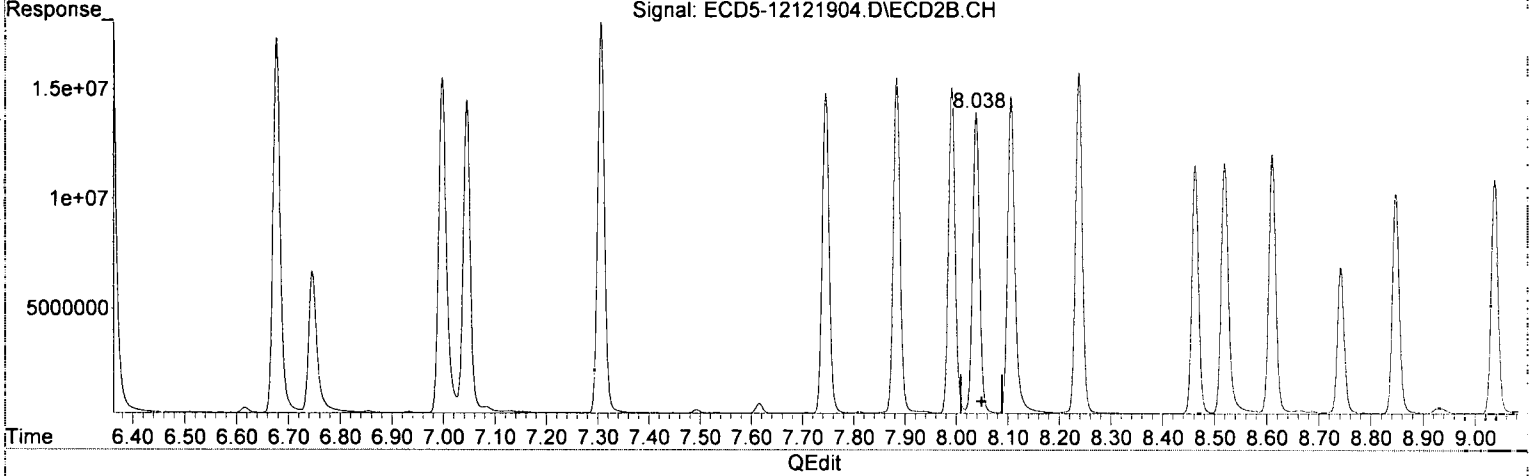
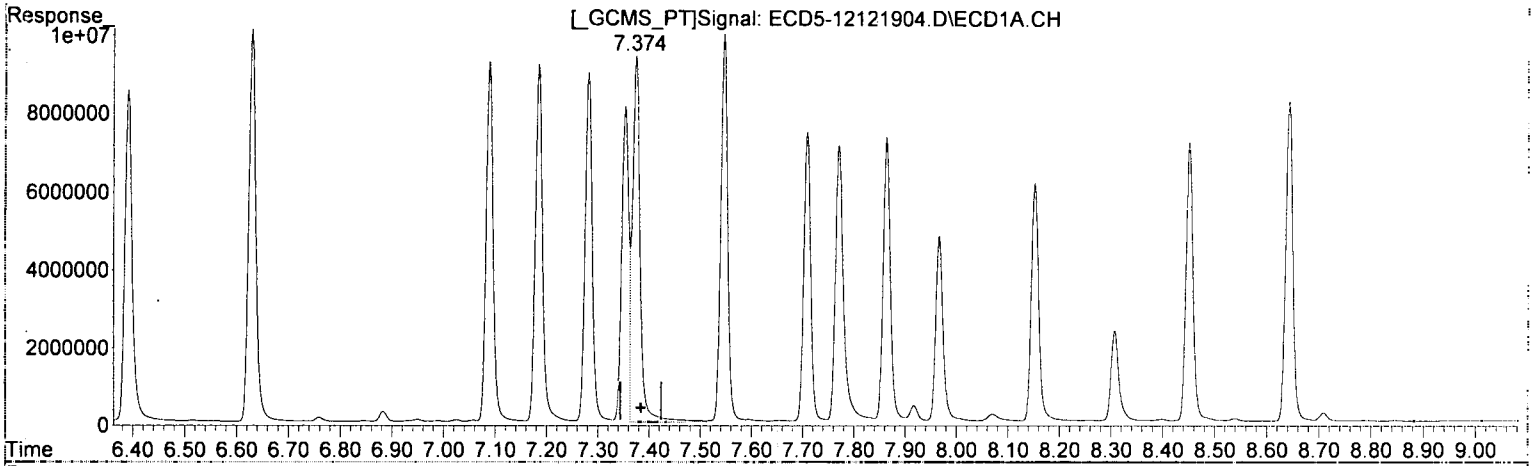
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:49:20 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:03  
Operator : MJB  
Sample : 9L12029-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 12:21:16 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(11) Endosulfan I

7.374min 55.516 ng/mL (m)  
response 9447728

MJB  
12/12/19

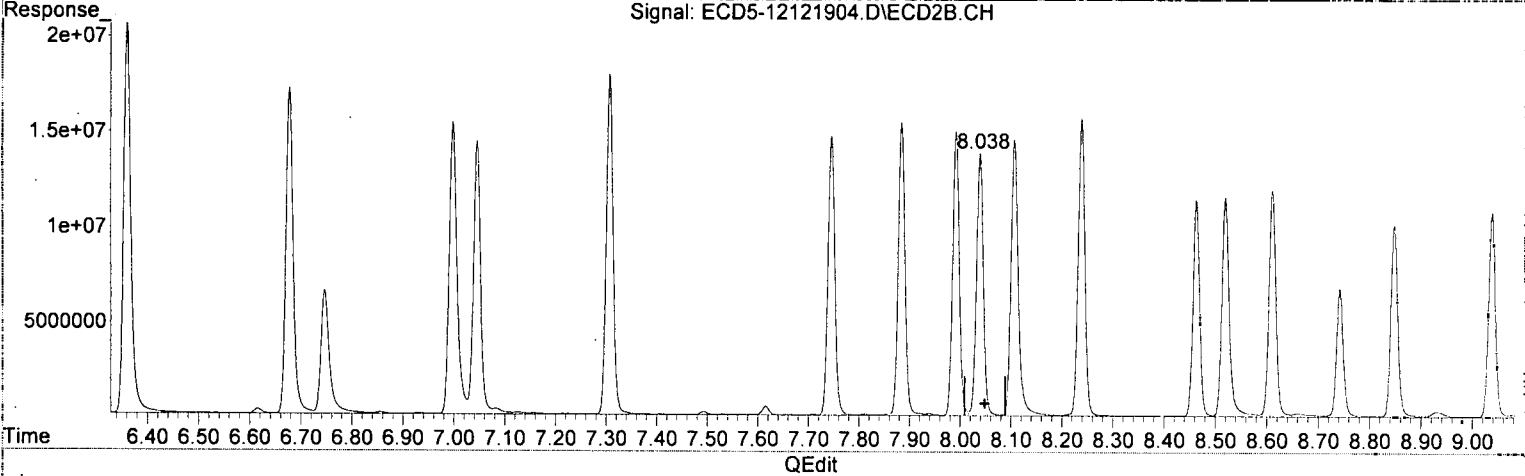
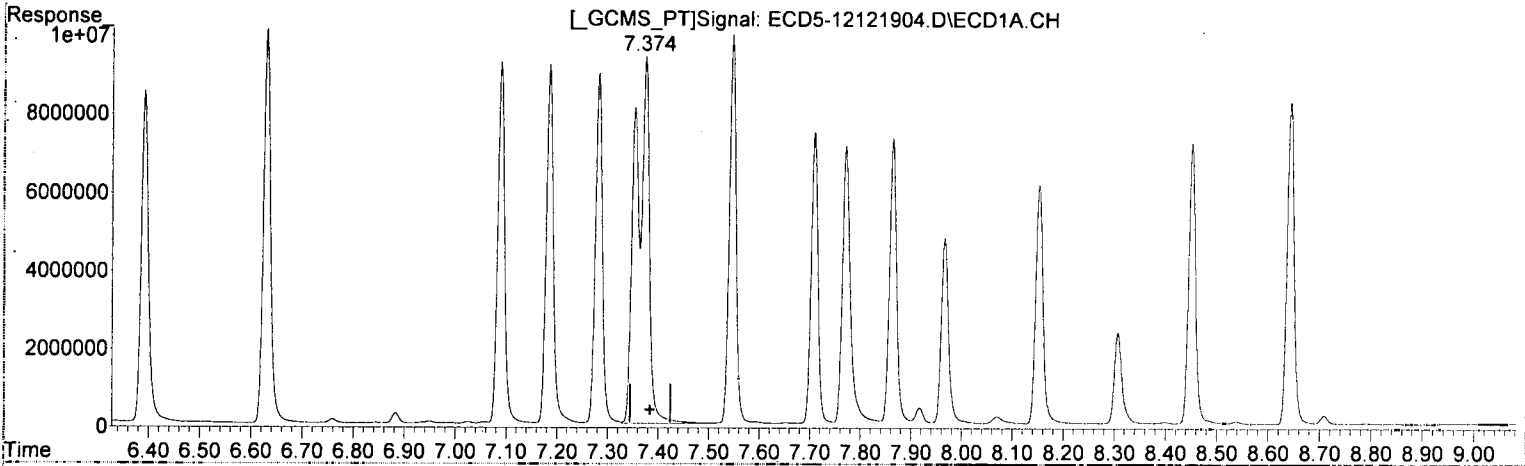
(11) Endosulfan I #2

8.038min 49.839 ng/mL  
response 13714453

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:03  
Operator : MJB  
Sample : 9L12029-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 12:21:16 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(11) Endosulfan I  
7.373min 56.738 ng/mL  
response 9655710

*MJB 12/12/19*

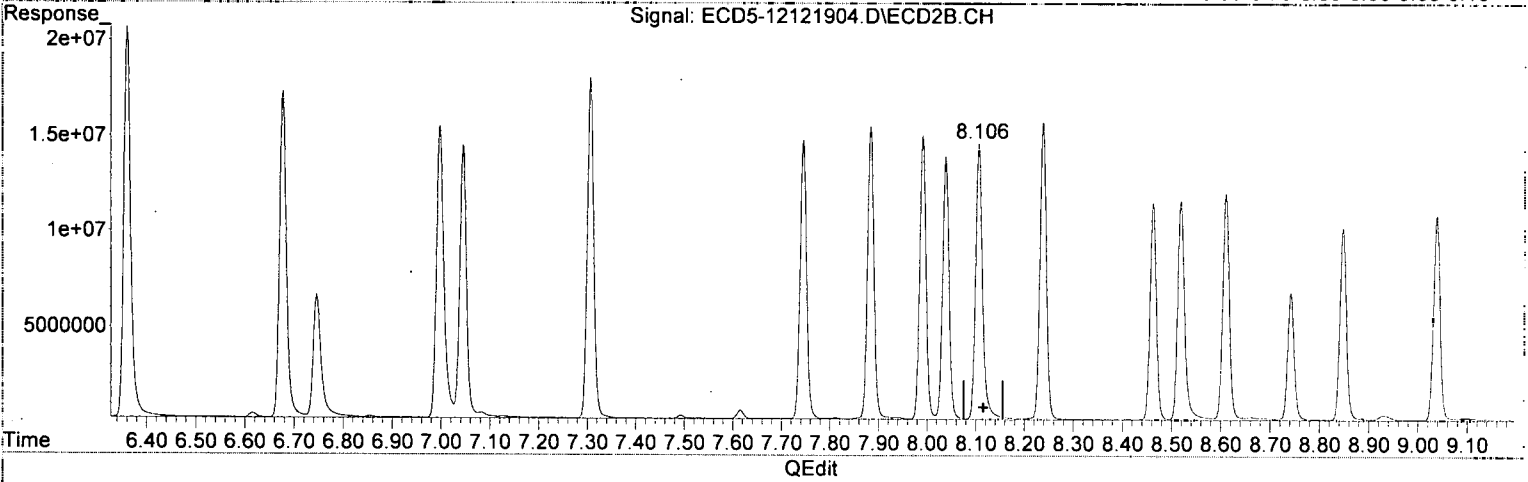
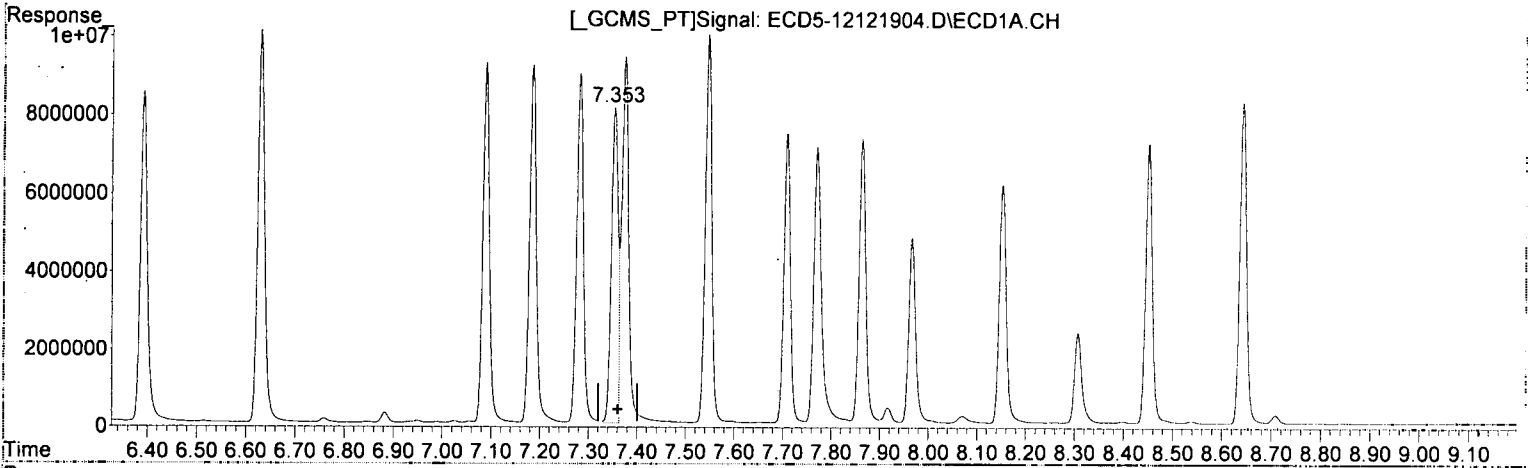
(11) Endosulfan I #2  
8.038min 49.839 ng/mL  
response 13714453



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:03  
Operator : MJB  
Sample : 9L12029-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 12:21:16 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.353min 43.124 ng/mL (m)  
response 8130225

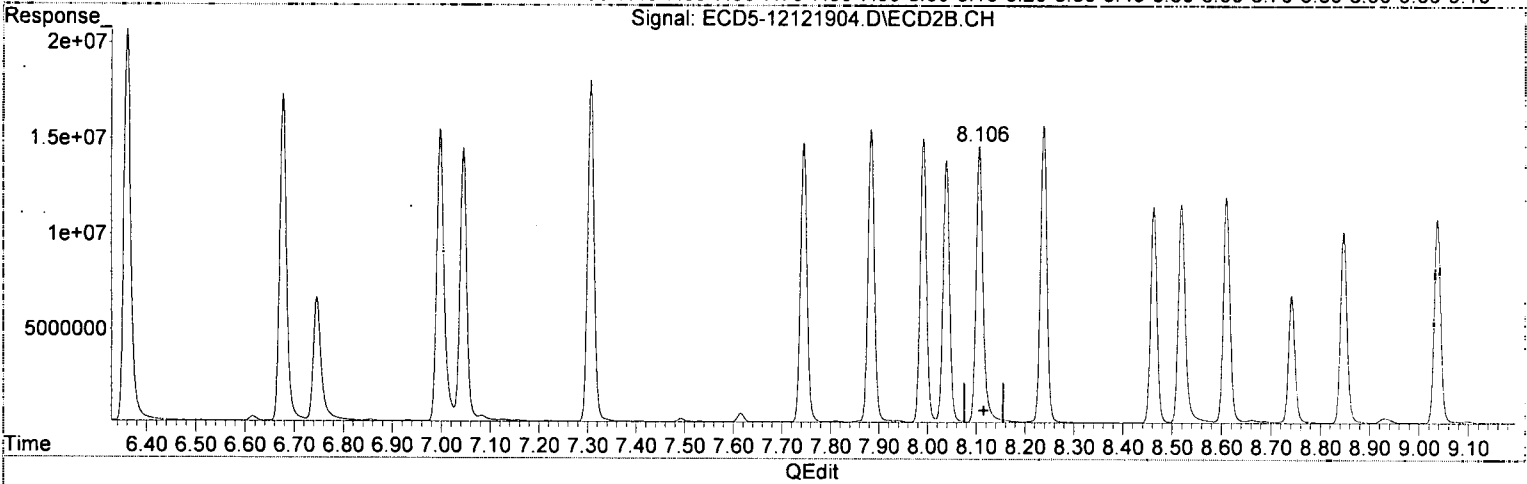
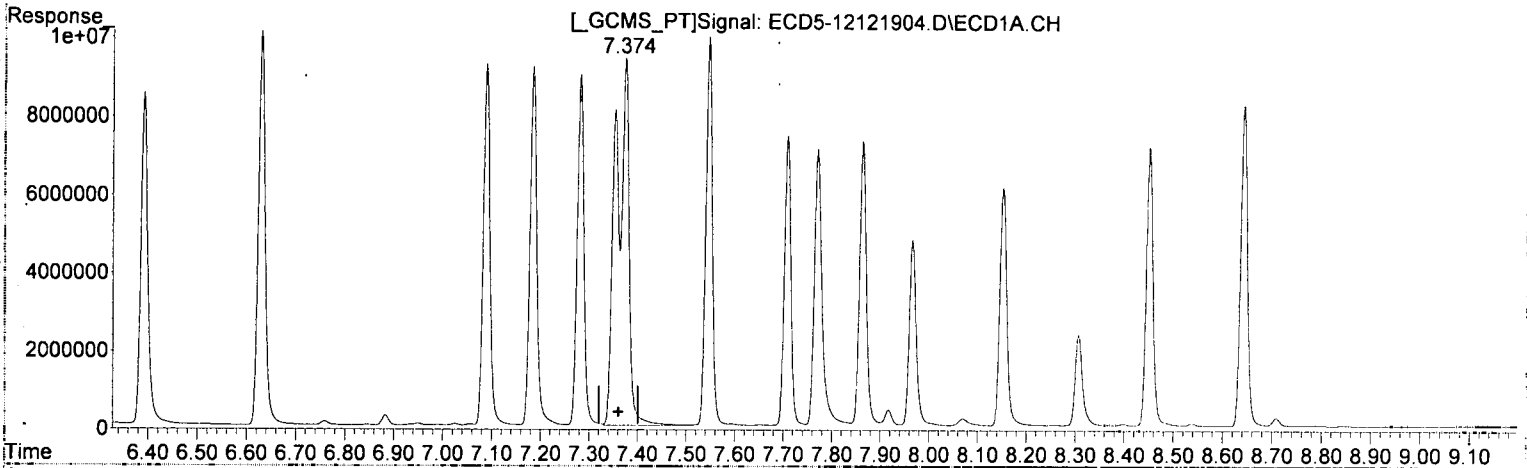
MJB 12/14/19

(12) 4,4'-DDE #2  
8.106min 46.456 ng/mL  
response 14432757

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:03  
Operator : MJB  
Sample : 9L12029-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 12:21:16 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.373min 51.216 ng/mL  
response 9655710

*MJB 12/21/19*

(12) 4,4'-DDE #2  
8.106min 46.456 ng/mL  
response 14432757

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 12:03  
 Operator : MJB  
 Sample : 9L12029-CCV1  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 12:21:16 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJ*  
*MJB*  
*12/12/19*

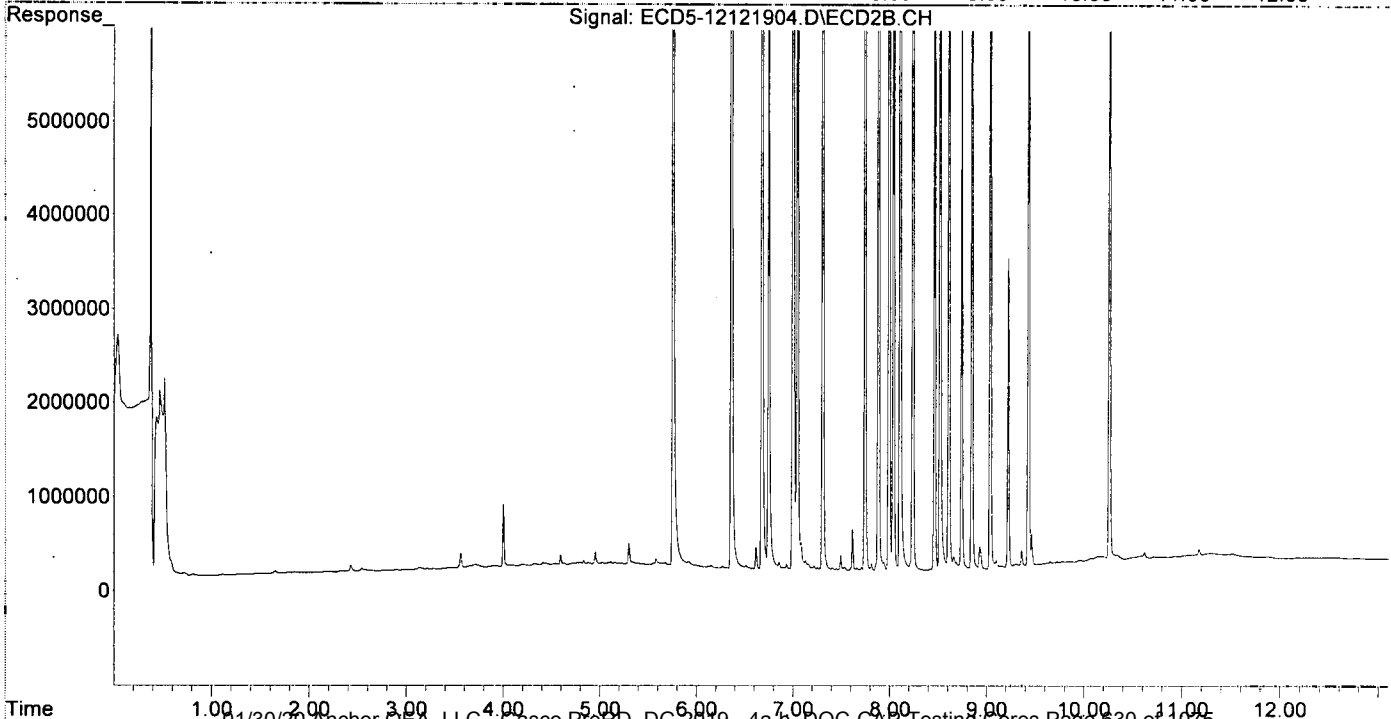
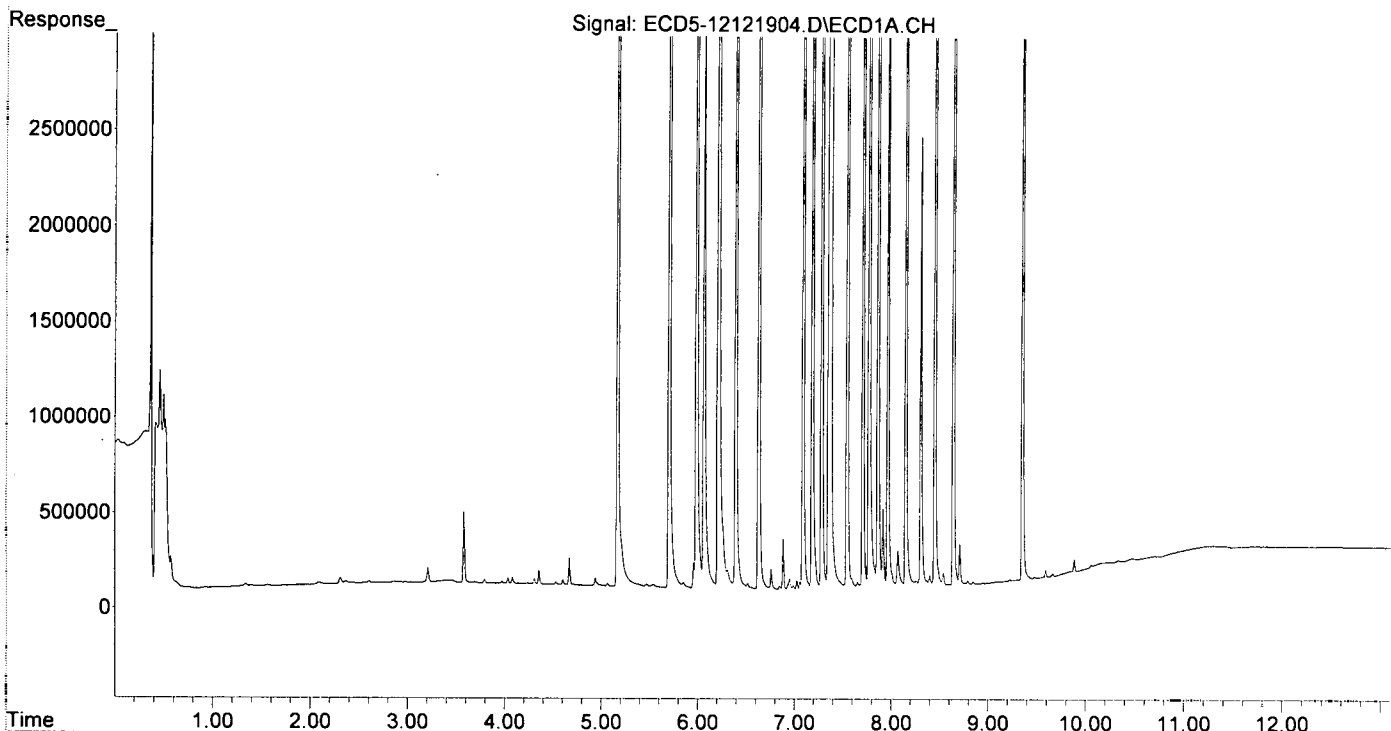
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.168	5.755	8049673	13508252	48.499	46.046
22) S DCBP (S)	9.353	10.258	6587264	9348604	46.686	52.005
Target Compounds						
2) a-BHC	5.702	6.360	11648074	20430892	50.792	49.790
3) g-BHC	5.983	6.677	9515484	17075615	47.158	47.871
4) b-BHC	6.061	6.746	3074751	6466002	34.019	40.855
5) Heptachlor	6.391	7.045	8476275	14288614	46.754	46.698
6) d-BHC	6.209	6.997	6993798	15265303	35.557	43.285
7) Aldrin	6.630	7.306	10002070	17781126	50.657	53.982
8) Heptachlo...	7.089	7.745	9237435	14598930	50.155	48.526
9) trans-Chl...	7.185	7.884	9168176	15304123	49.587	48.844
10) cis-Chlor...	7.282	7.991	8970747	14829080	49.271	50.916
11) Endosulfa...	7.373	8.038	9655710	13714453	56.738	49.839
12) 4,4'-DDE	7.373	8.106	9655710	14432757	51.216	46.456
13) Dieldrin	7.546	8.238	9910007	15519861	51.620	51.027
14) Endrin	7.709	8.463	7456945	11308236	50.718	50.075
15) 4,4'-DDD	7.771	8.519	6969880	11419480	44.354	44.570
16) Endosulfa...	7.864	8.610	7169246	11794170	49.921	51.144
17) 4,4'-DDT	7.966	8.742	4661149	6673719	38.986	36.352
18) Endrin Al...	8.152	8.848	6137916	9997265	50.001	50.803
19) Endosulfa...	8.451	9.077	7181438	10645267	46.339	42.737
20) Methoxychlor	8.307	9.722	2316109	3290934	39.541	37.585
21) Endrin Ke...	8.643	9.430	8258512	12042292	49.524	46.800
23) Hexachlor...	2.973	3.492f	15098	9594	0.083	0.026 #
24) Hexachlor...	5.542	0.000	14755	0	0.084	N.D. #
25) Oxychlorane	7.025	7.683	44164	13765	0.268	0.050 #
26) 2,4'-DDE	7.089	7.884	9237435	15304123	72.021	72.142
27) trans-Non...	7.282	7.938	8970747	92788	49.783	0.308 #
28) 2,4'-DDD	0.000	8.238	0	15519861	N.D.	82.175 #
29) 2,4'-DDT	0.000	8.463	0	11308236	N.D.	63.409 #
30) cis-Nonac...	7.771f	8.519	6969880	11419480	33.571	34.042
31) Mirex	8.398	9.430	51176	12042292	0.408	64.718 #
32) Chlordane...	7.282f	7.938	8970747	92788	455.608	2.564 #
33) Chlordane...	7.373f	8.038f	9655710	13714453	385.238	451.667
34) Chlordane...	7.864	8.742f	7169246	6673719	1240.113	744.346
35) Chlordane...	3.435f	3.424f	18334	10558	NoCal	NoCal
36) Toxaphene...	7.282f	0.000	8970747	0	10015.936	N.D. #
37) Toxaphene...	0.000	8.610f	0	11794170	N.D.	3583.737 #
38) Toxaphene...	7.917	8.661	408421	144761	121.284	28.562 #
39) Toxaphene...	8.152	8.742	6137916	6673719	1894.329	799.264 #
40) Toxaphene...	8.398	8.930	51176	238790	21.349	51.239 #
41) Toxaphene...	8.451	9.304	7181438	39508	2269.316	8.317 #
42) Toxaphene...	3.435f	3.492f	18334	9594	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:03  
Operator : MJB  
Sample : 9L12029-CCV1  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 12:21:16 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121905.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 12:20  
 Operator : MJB  
 Sample : 9L12029-CCB1  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:49:50 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q14

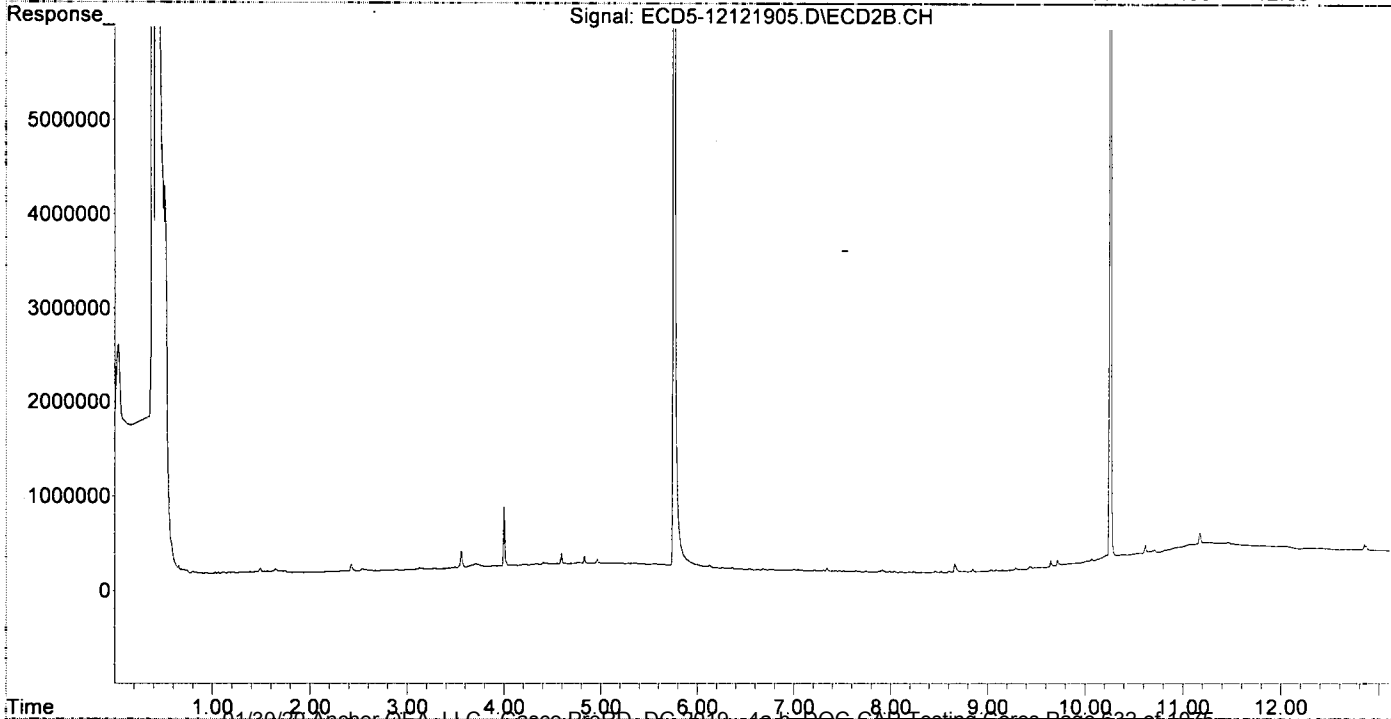
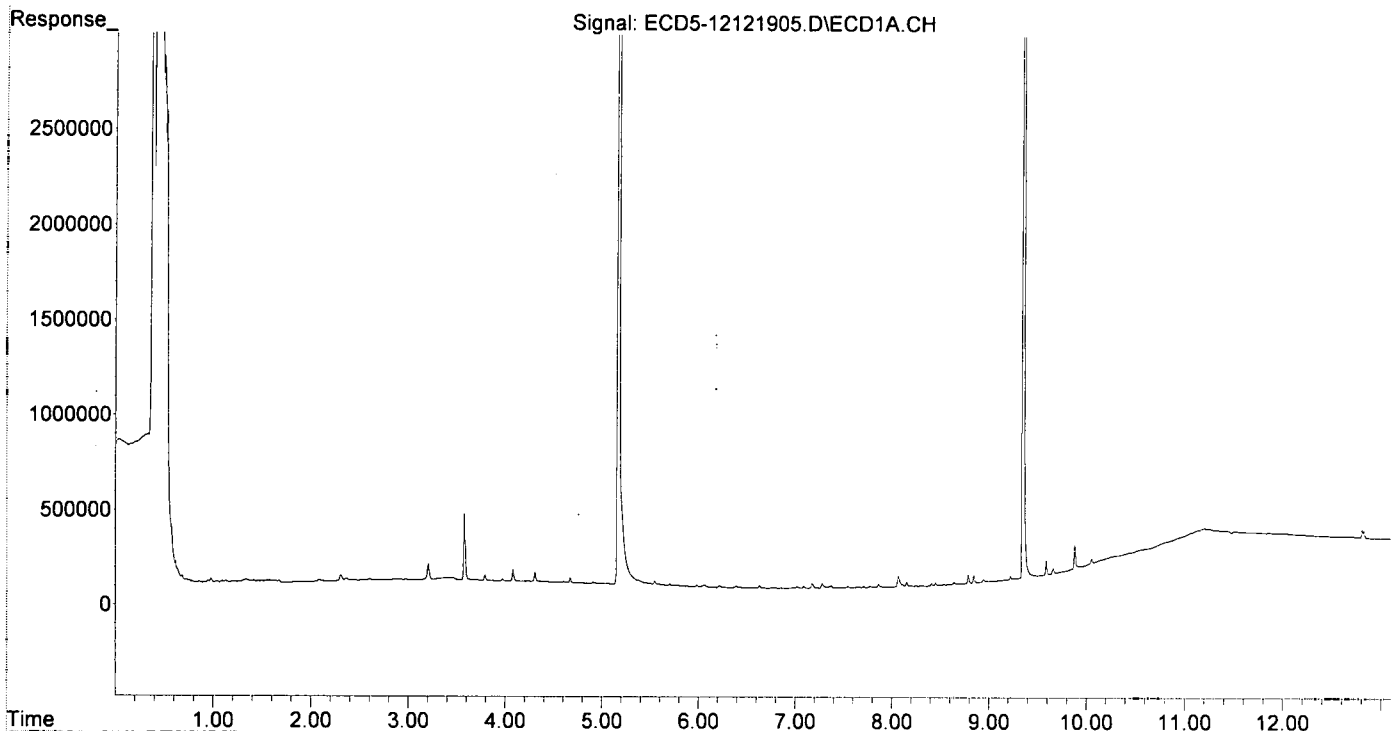
MJB  
12/14/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.168	5.755	16706310	29511472	100.655	100.596
22) S DCBP (S)	9.353	10.259	13504848	19714121	95.712	109.667
Target Compounds						
2) a-BHC	5.701	6.359	12023	14743	0.052	0.036
3) g-BHC	5.982	6.678	10260	16800	0.051	0.047
4) b-BHC	6.059	6.752	9378	9612	0.104	0.061 #
5) Heptachlor	6.391	7.044	9835	8931	0.054	0.029 #
6) d-BHC	6.215	7.000	8799	14991	0.045	0.043
7) Aldrin	6.630	7.306	13667	12243	0.069	0.037 #
8) Heptachlo...	7.089	7.745	10684	14636	0.058	0.049
9) trans-Chl...	7.176	7.885	23681	14766	0.128	0.047 #
10) cis-Chlor...	7.282	7.991	23424	15616	0.129	0.054 #
11) Endosulfa...	7.375	8.038	11015	14287	0.065	0.052
12) 4,4'-DDE	7.356	8.108	8399	10707	0.045	0.034
13) Dieldrin	7.547	8.238	10286	14429	0.054	0.047
14) Endrin	7.709	8.463	7383	13182	0.050	0.058
15) 4,4'-DDD	7.775	8.522	7953	12640	0.051	0.049
16) Endosulfa...	7.865	8.609	17287	16061	0.120	0.070 #
17) 4,4'-DDT	0.000	8.758	0	8797	N.D.	0.013 #
18) Endrin Al...	8.154	8.848	23690	28733	BelowCal	BelowCal
19) Endosulfa...	8.452	9.038	14345	20387	0.093	0.082
20) Methoxychlor	8.304	9.222	5565	2980	0.095	BelowCal #
21) Endrin Ke...	8.643	9.441	11515	20121	0.069	0.078
23) Hexachlor...	2.971	3.490f	15453	23168	0.085	0.062
24) Hexachlor...	5.546	0.000	23648	0	0.134	N.D. #
25) Oxychlordane	7.021	7.643f	8981	14147	0.055	0.052
26) 2,4'-DDE	7.089	7.885	10684	14766	0.083	0.070
27) trans-Non...	7.282	7.912f	23424	23202	87346.570	0.077 #
28) 2,4'-DDD	0.000	8.238	0	14429	N.D.	0.076 #
29) 2,4'-DDT	7.660	8.463	4123	13182	0.038	0.074 #
30) cis-Nonac...	7.709f	8.522	7383	12640	0.036	0.038
31) Mirex	8.411	9.441f	12006	20121	0.096	0.108
32) Chlordane...	7.282f	7.991f	23424	15616	1.190	0.432 #
33) Chlordane...	7.356	8.038f	8399	14287	0.335	0.471 #
34) Chlordane...	7.891	0.000	4341	0	0.751	N.D. #
35) Chlordane...	0.000	3.424f	0	17332	N.D.	NoCal
36) Toxaphene...	7.282f	0.000	23424	0	26.153	N.D. #
37) Toxaphene...	7.633f	8.609f	2879	16061	1.782	4.880 #
38) Toxaphene...	7.891f	8.664	4341	91674	1.289	18.088 #
39) Toxaphene...	8.154	8.758f	23690	8797	7.312	1.054 #
40) Toxaphene...	8.411f	0.000	12006	0	5.008	N.D. #
41) Toxaphene...	8.452	9.289	14345	21634	4.533	4.554
42) Toxaphene...	0.000	3.490f	0	23168	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121905.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 12:20  
Operator : MJB  
Sample : 9L12029-CCB1  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:49:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RT9.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121908.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 13:24  
 Operator : MJB  
 Sample : 9L12029-CCV2  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 16:06:43 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/12/19

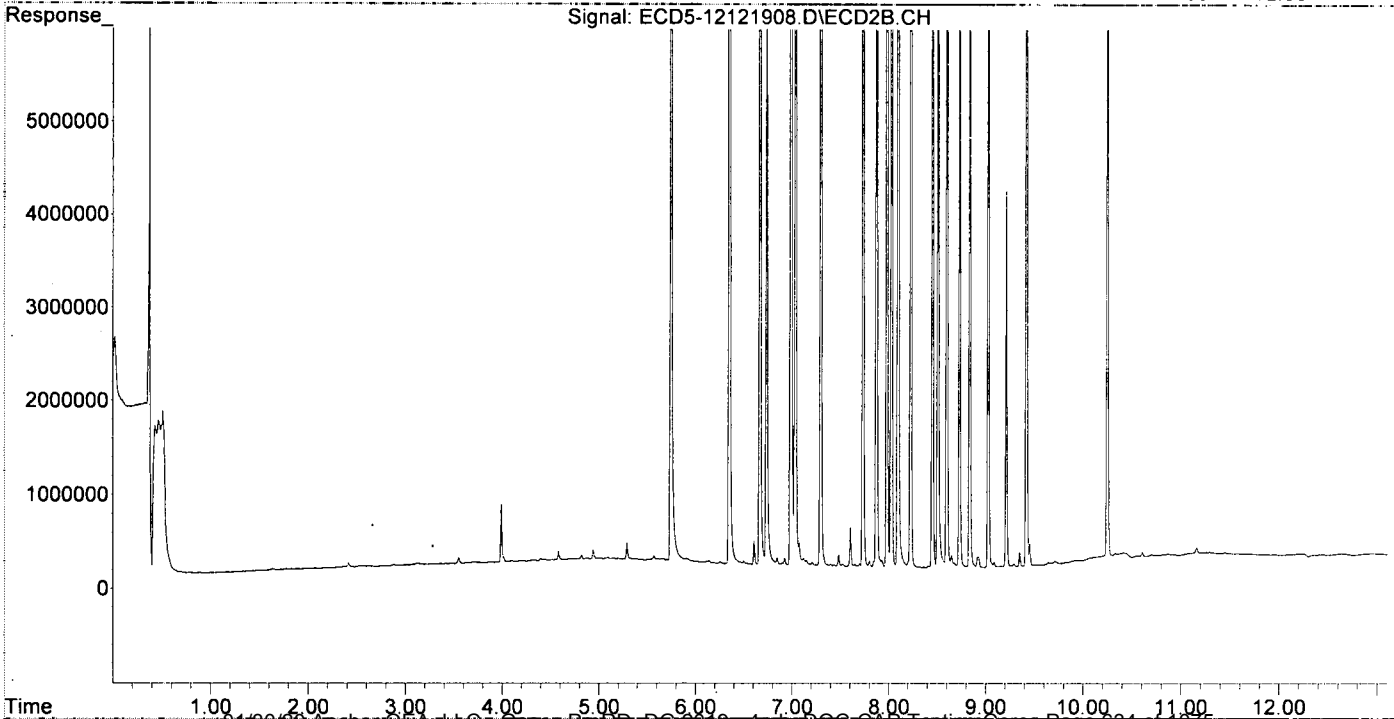
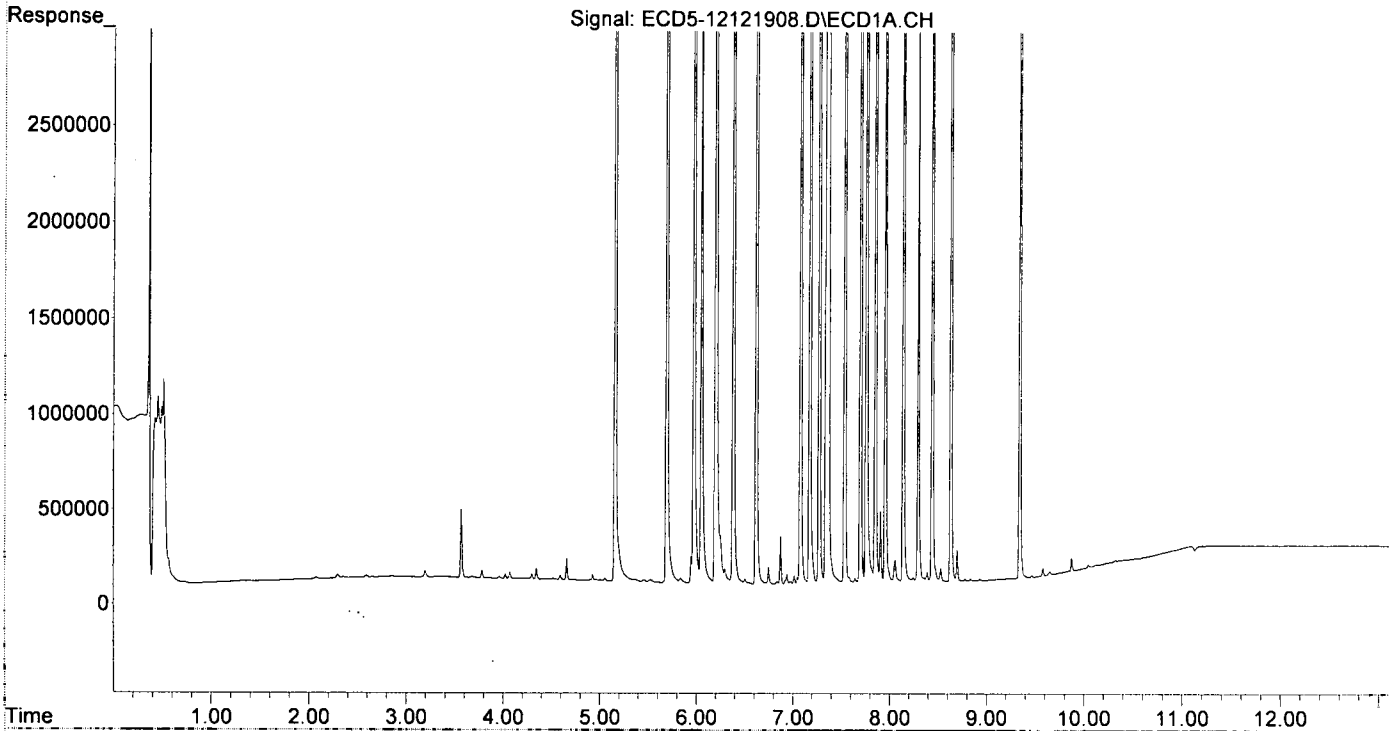
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.158	5.746	8435133	14531425	50.822	49.533
22) S DCBP (S)	9.342	10.248	6479410	9630765	45.921	53.575
Target Compounds						
2) a-BHC	5.692	6.351	12131774	21400167	52.901	52.152
3) g-BHC	5.974	6.668	9867711	18012229	48.904	50.496
4) b-BHC	6.051	6.737	3485844	6827520	38.567	43.140
5) Heptachlor	6.382	7.036	8747154	14524031	48.248	47.468
6) d-BHC	6.199	6.987	8008333	16343314	40.715	46.342
7) Aldrin	6.621	7.297	9874274	17776026	50.010	53.966
8) Heptachlo...	7.079	7.735	9174175	15323073	49.811	50.933
9) trans-Chl...	7.175	7.874	9483553	15905606	51.293	50.764
10) cis-Chlor...	7.272	7.982	9416470	15104106	51.719	51.860
11) Endosulfa...	7.364	8.029	9184050	13818191	53.967m	50.216
12) 4,4'-DDE	7.342	8.096	8819514	15088795	46.780m	48.567
13) Dieldrin	7.537	8.228	10065728	16336379	52.431	53.712
14) Endrin	7.699	8.453	2965104	11790013	51.816	52.208
15) 4,4'-DDD	7.760	8.509	7241083	11304180	46.080	44.120
16) Endosulfa...	7.854	8.601	7592463	12196672	52.868	52.890
17) 4,4'-DDT	7.956	8.732	5914080	8199170	49.465	44.059
18) Endrin Al...	8.142	8.838	6407757	9891819	52.167	50.288
19) Endosulfa...	8.441	9.028	7380736	11050967	47.625	44.366
20) Methoxychlor	8.297	9.213	2965104	4017923	50.621	45.219
21) Endrin Ke...	8.633	9.420	8334517	12220215	49.980	47.491
23) Hexachlor...	2.959	3.478f	3310	7101	0.018	0.019
24) Hexachlor...	5.533	0.000	14216	0	0.081	N.D. #
25) Oxychlordane	7.015	7.653	43379	25946	0.264	0.095 #
26) 2,4'-DDE	7.079	7.874	9174175	15905606	71.527	74.978
27) trans-Non...	7.272	7.929	9416470	79461	52.273	0.263 #
28) 2,4'-DDD	0.000	8.228	0	16336379	N.D.	86.498 #
29) 2,4'-DDT	7.644	8.453	24763	11790013	0.226	66.110 #
30) cis-Nonac...	7.699f	8.509	7618290	11304180	36.694	33.699
31) Mirex	8.389	9.420f	50421	12220215	0.402	65.674 #
32) Chlordane...	0.000	7.929	0	79461	N.D.	2.196 #
33) Chlordane...	0.000	8.029	0	13818191	N.D.	455.084 #
34) Chlordane...	7.854	8.679	7592463	51492	1313.320	5.743 #
35) Chlordane...	0.000	3.415	0	7725	N.D.	NoCal
36) Toxaphene...	7.272f	0.000	9416470	0	10513.590	N.D. #
37) Toxaphene...	0.000	8.601	0	12196672	N.D.	3706.040 #
38) Toxaphene...	7.907	8.649	367965	137477	109.270	27.125 #
39) Toxaphene...	8.142	8.732	6407757	8199170	1977.610	981.956 #
40) Toxaphene...	8.389f	8.919f	50421	117034	21.034	25.113
41) Toxaphene...	8.441	9.270	7380736	10043	2332.294	2.114 #
42) Toxaphene...	0.000	3.415f	0	7725	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:24  
Operator : MJB  
Sample : 9L12029-CCV2  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 16:06:43 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

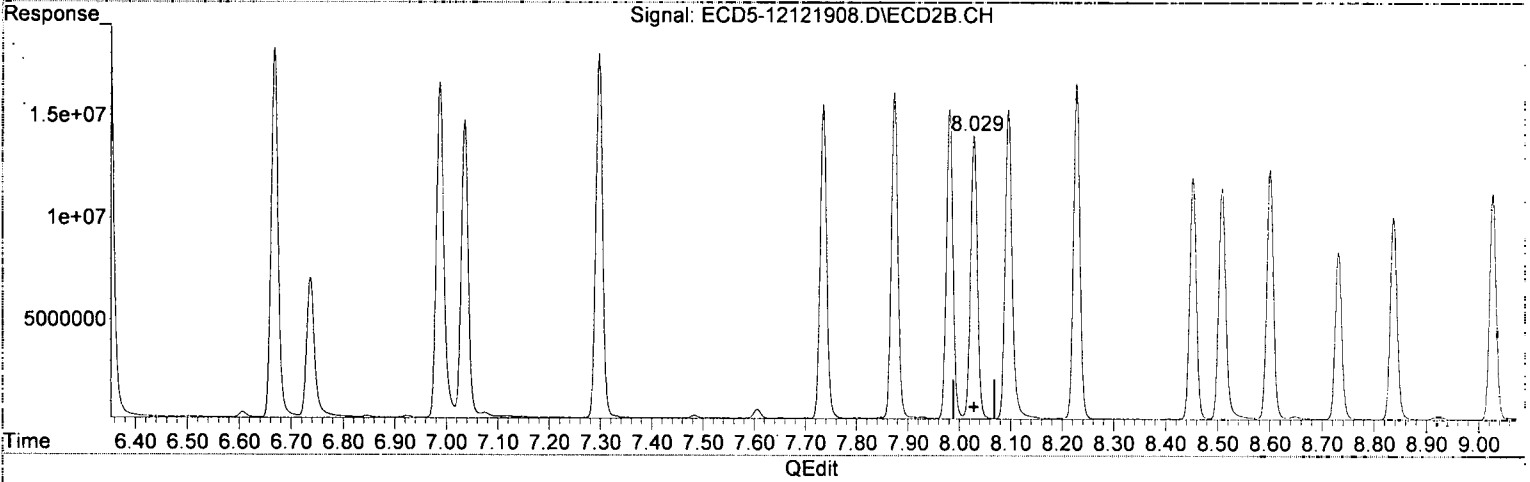
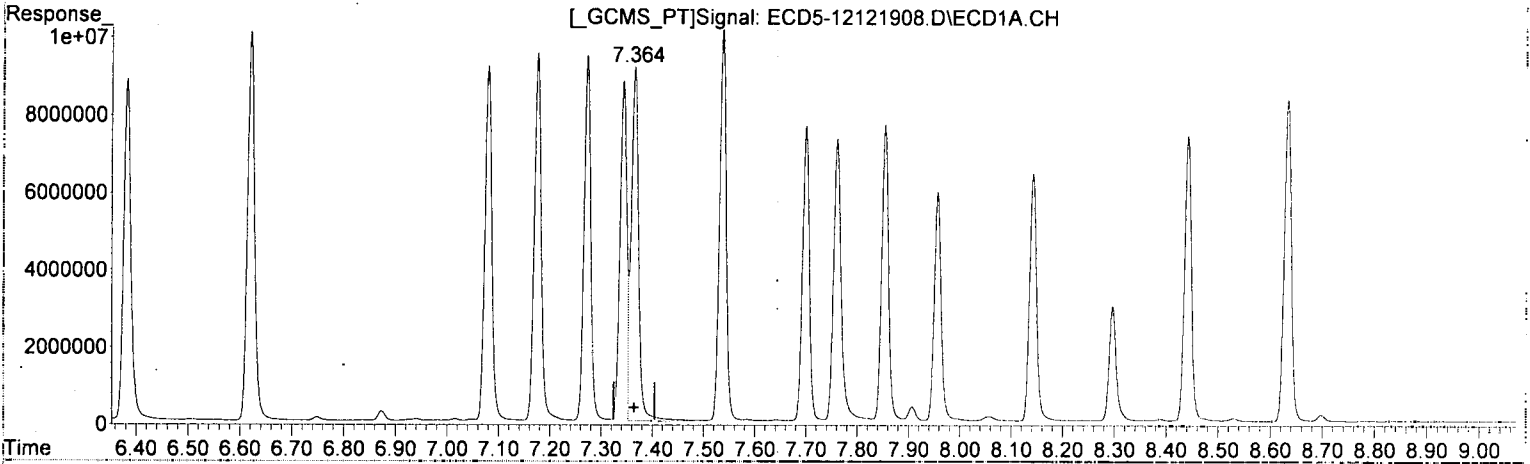




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:24  
Operator : MJB  
Sample : 9L12029-CCV2  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(11) Endosulfan I  
7.364min 53.967 ng/mL(m)  
response 9184050

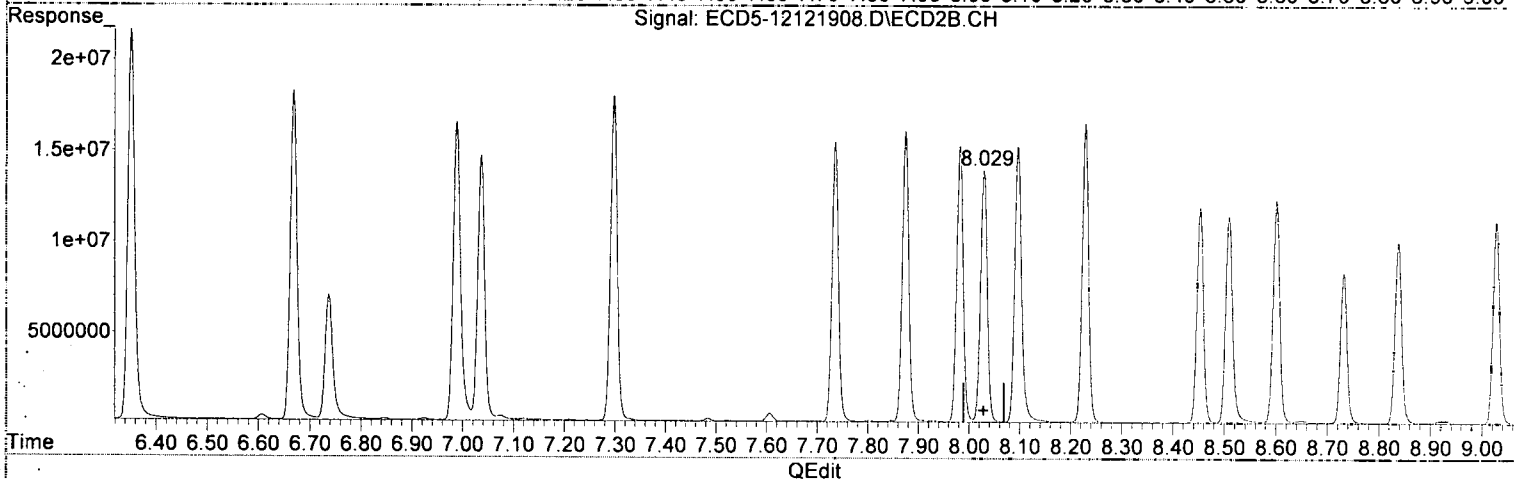
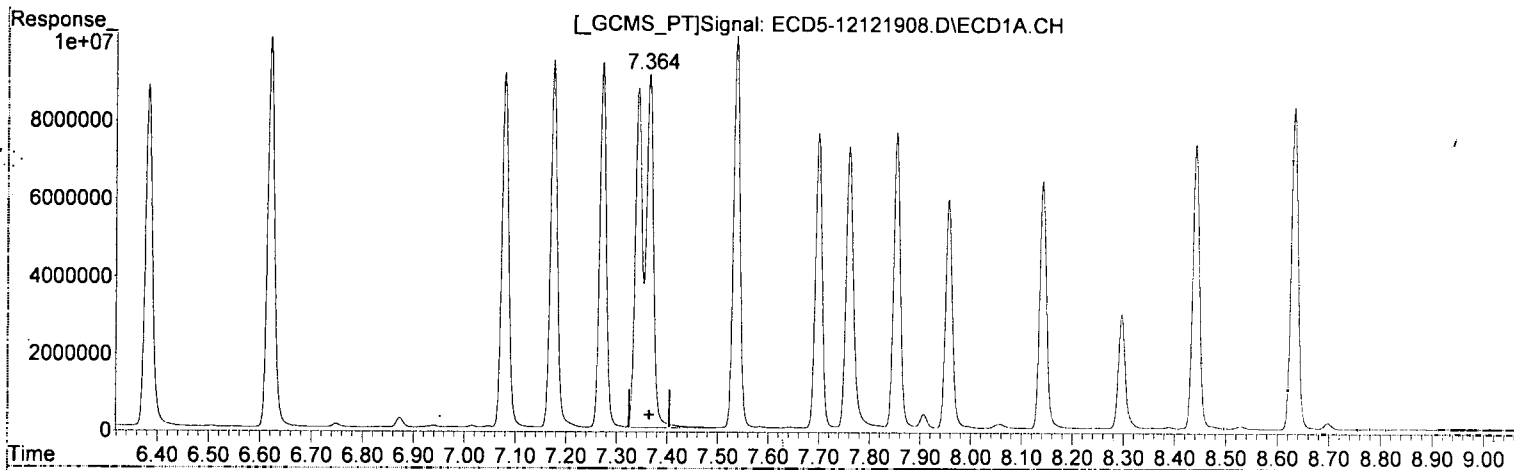
MJB 12/12/19

(11) Endosulfan I #2  
8.029min 50.216 ng/mL  
response 13818191

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:24  
Operator : MJB  
Sample : 9L12029-CCV2  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(11) Endosulfan I  
7.364min 54.879 ng/mL  
response 9339259

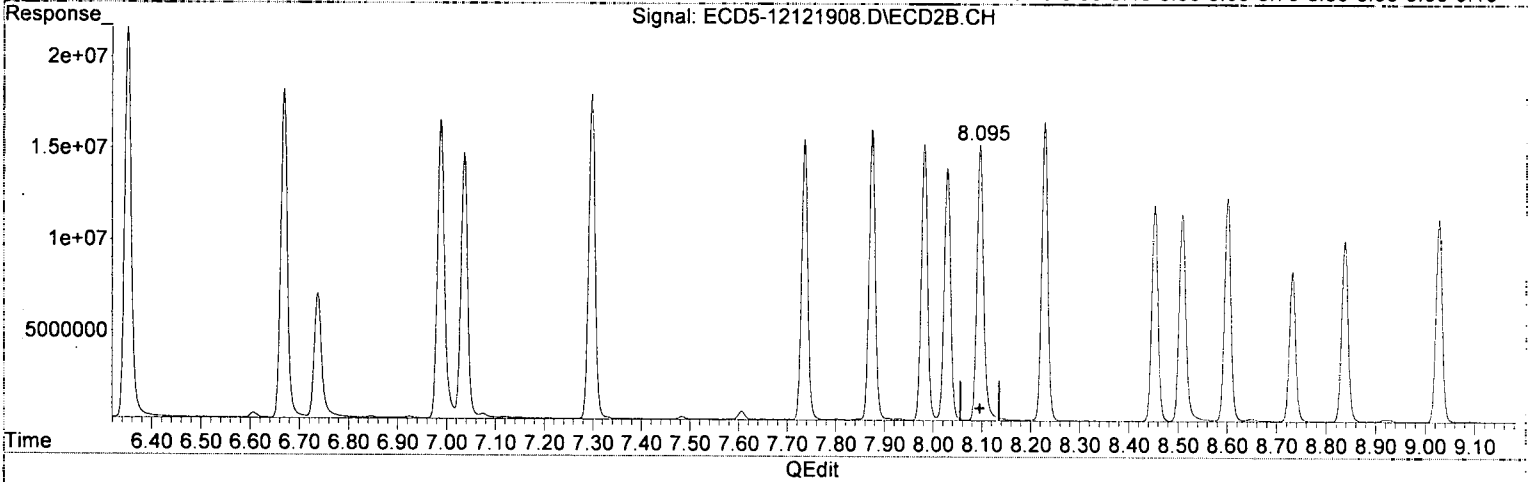
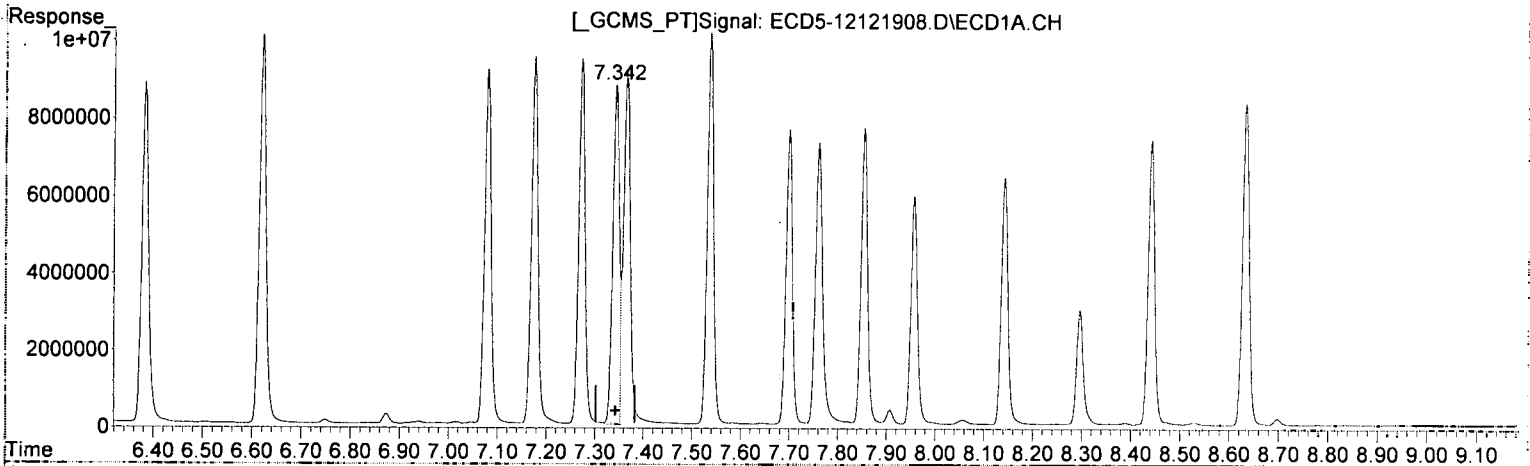
MJB 12/12/19

(11) Endosulfan I #2  
8.029min 50.216 ng/mL  
response 13818191

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:24  
Operator : MJB  
Sample : 9L12029-CCV2  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.342min 46.780 ng/mL (m)  
response 8819514

MJB  
12/12/19

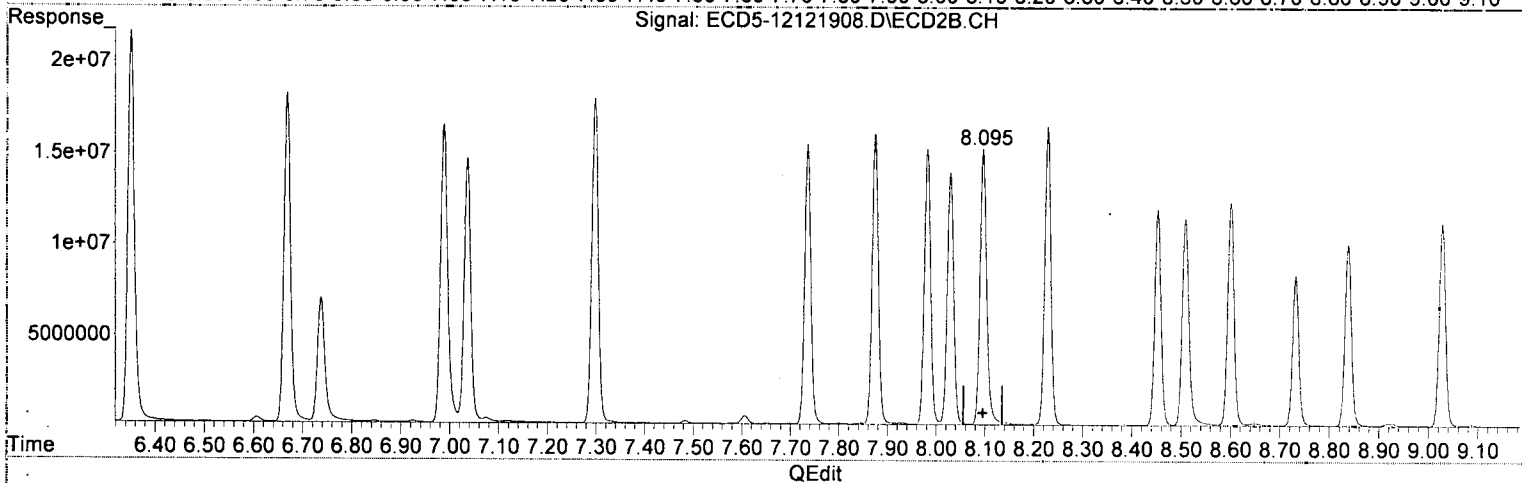
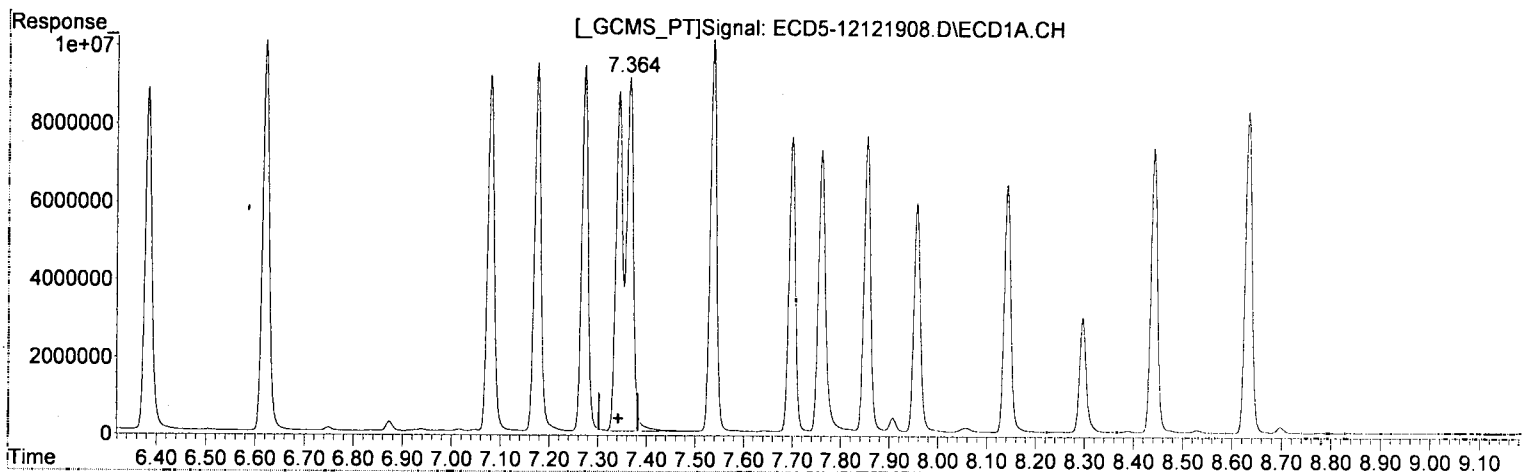
(12) 4,4'-DDE #2

8.096min 48.567 ng/mL  
response 15088795

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:24  
Operator : MJB  
Sample : 9L12029-CCV2  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.364min 49.537 ng/mL  
response 9339259

*MJB 12/12/19*

(12) 4,4'-DDE #2  
8.096min 48.567 ng/mL  
response 15088795

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121908.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 13:24  
 Operator : MJB  
 Sample : 9L12029-CCV2  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:54:08 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*ME*  
*MJB*  
*12/12/19*

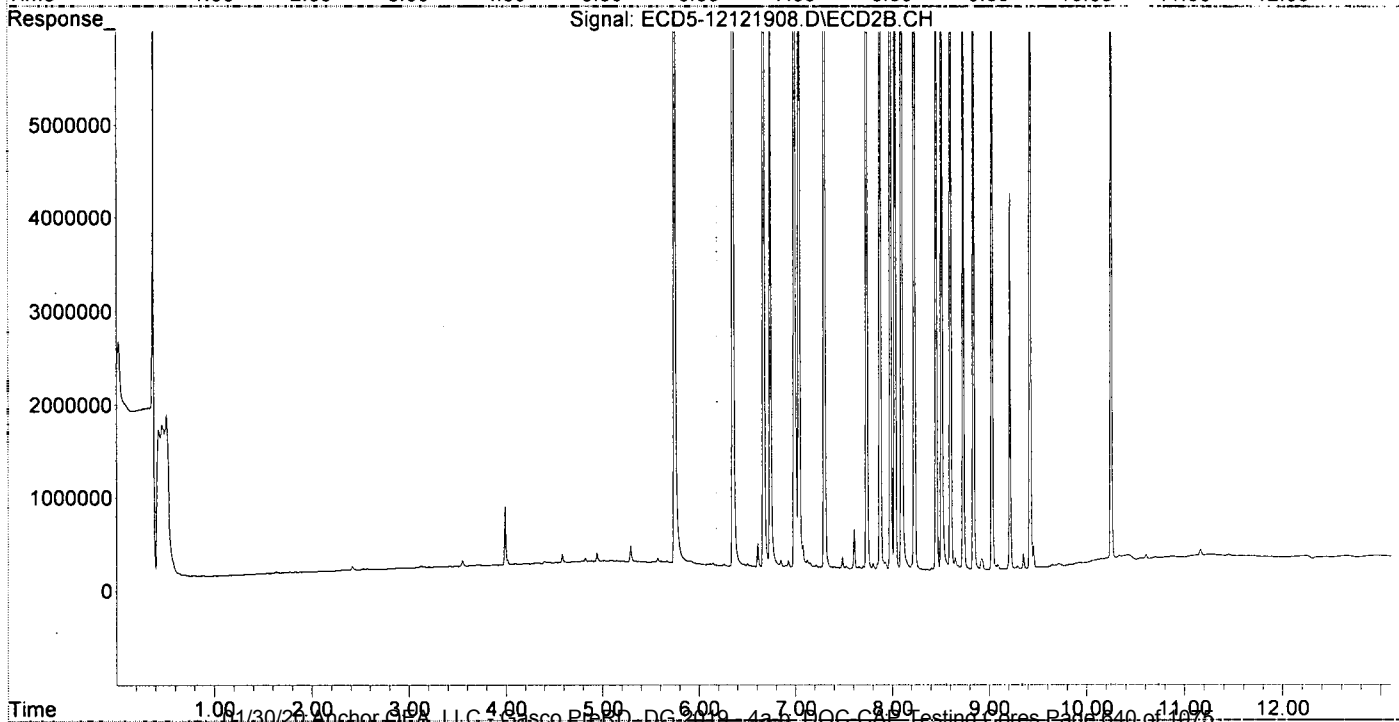
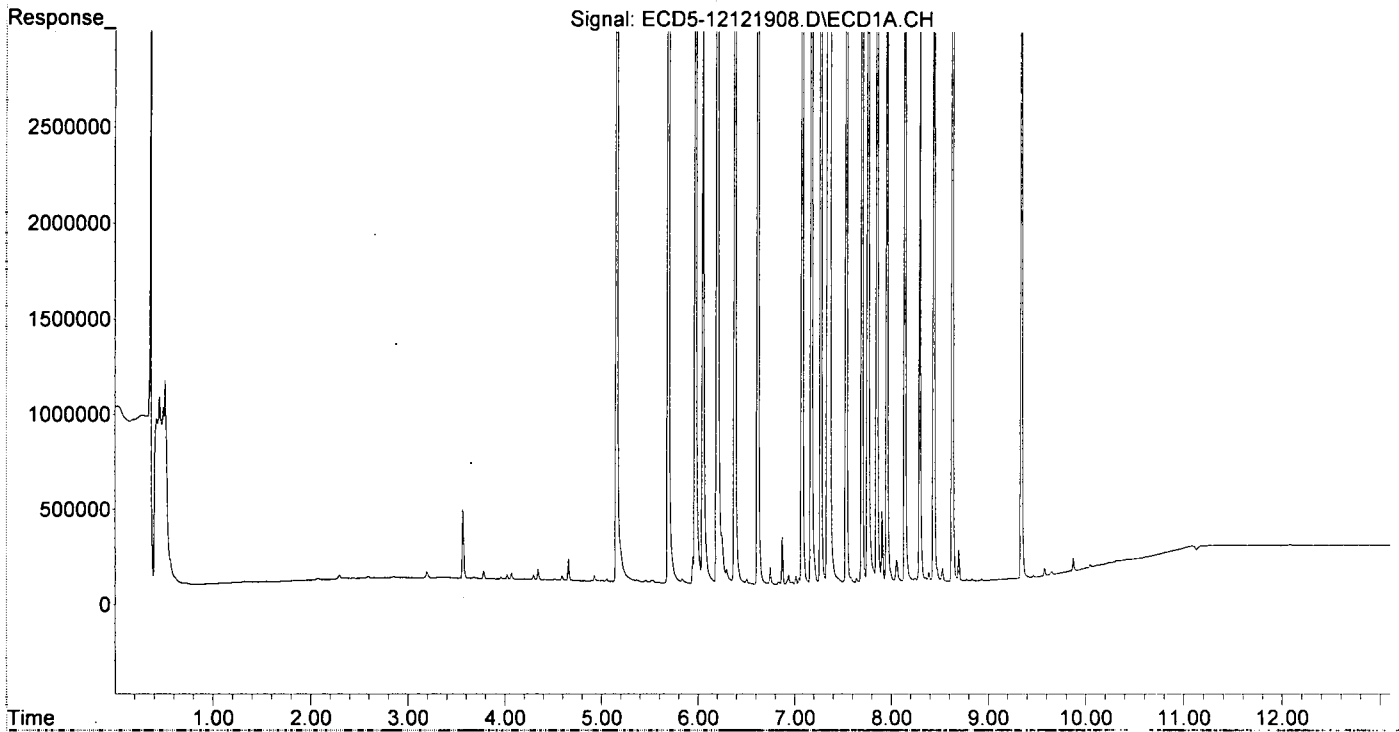
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.158	5.746	8435133	14531425	50.822	49.533
22) S DCBP (S)	9.342	10.248	6479410	9630765	45.921	53.575
Target Compounds						
2) a-BHC	5.692	6.351	12131774	21400167	52.901	52.152
3) g-BHC	5.974	6.668	9867711	18012229	48.904	50.496
4) b-BHC	6.051	6.737	3485844	6827520	38.567	43.140
5) Heptachlor	6.382	7.036	8747154	14524031	48.248	47.468
6) d-BHC	6.199	6.987	8008333	16343314	40.715	46.342
7) Aldrin	6.621	7.297	9874274	17776026	50.010	53.966
8) Heptachlo...	7.079	7.735	9174175	15323073	49.811	50.933
9) trans-Chl...	7.175	7.874	9483553	15905606	51.293	50.764
10) cis-Chlor...	7.272	7.982	9416470	15104106	51.719	51.860
11) Endosulfa...	7.364	8.029	9339259	13818191	54.879	50.216
12) 4,4'-DDE	7.364f	8.096	9339259	15088795	49.537	48.567
13) Dieldrin	7.537	8.228	10065728	16336379	52.431	53.712
14) Endrin	7.699	8.453	7618290	11790013	51.816	52.208
15) 4,4'-DDD	7.760	8.509	7241083	11304180	46.080	44.120
16) Endosulfa...	7.854	8.601	7592463	12196672	52.868	52.890
17) 4,4'-DDT	7.956	8.732	5914080	8199170	49.465	44.059
18) Endrin Al...	8.142	8.838	6407757	9891819	52.167	50.288
19) Endosulfa...	8.441	9.028	7380736	11050967	47.625	44.366
20) Methoxychlor	8.297	9.213	2965104	4017923	50.621	45.219
21) Endrin Ke...	8.633	9.420	8334517	12220215	49.980	47.491
23) Hexachlor...	2.959	3.478f	3310	7101	0.018	0.019
24) Hexachlor...	5.533	0.000	14216	0	0.081	N.D. #
25) Oxychlordane	7.015	7.653	43379	25946	0.264	0.095 #
26) 2,4'-DDE	7.079	7.874	9174175	15905606	71.527	74.978
27) trans-Non...	7.272	7.929	9416470	79461	52.273	0.263 #
28) 2,4'-DDD	0.000	8.228	0	16336379	N.D.	86.498 #
29) 2,4'-DDT	7.644	8.453	24763	11790013	0.226	66.110 #
30) cis-Nonac...	7.699f	8.509	7618290	11304180	36.694	33.699
31) Mirex	8.389	9.420f	50421	12220215	0.402	65.674 #
32) Chlordane...	0.000	7.929	0	79461	N.D.	2.196 #
33) Chlordane...	0.000	8.029	0	13818191	N.D.	455.084 #
34) Chlordane...	7.854	8.679	7592463	51492	1313.320	5.743 #
35) Chlordane...	0.000	3.415	0	7725	N.D.	NoCal
36) Toxaphene...	7.272f	0.000	9416470	0	10513.590	N.D. #
37) Toxaphene...	0.000	8.601	0	12196672	N.D.	3706.040 #
38) Toxaphene...	7.907	8.649	367965	137477	109.270	27.125 #
39) Toxaphene...	8.142	8.732	6407757	8199170	1977.610	981.956 #
40) Toxaphene...	8.389f	8.919f	50421	117034	21.034	25.113
41) Toxaphene...	8.441	9.270	7380736	10043	2332.294	2.114 #
42) Toxaphene...	0.000	3.415f	0	7725	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:24  
Operator : MJB  
Sample : 9L12029-CCV2  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121909.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 13:41  
 Operator : MJB  
 Sample : 9L12029-CCB2  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:54:14 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/12/19

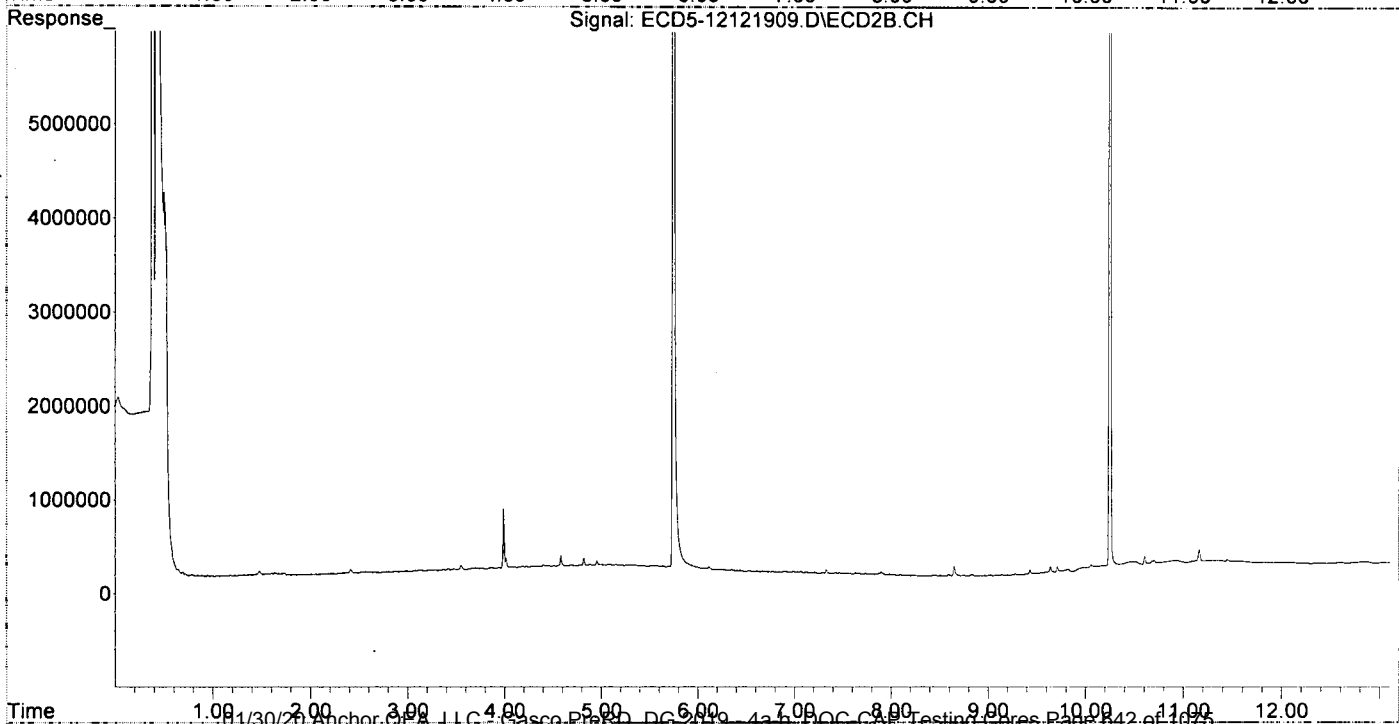
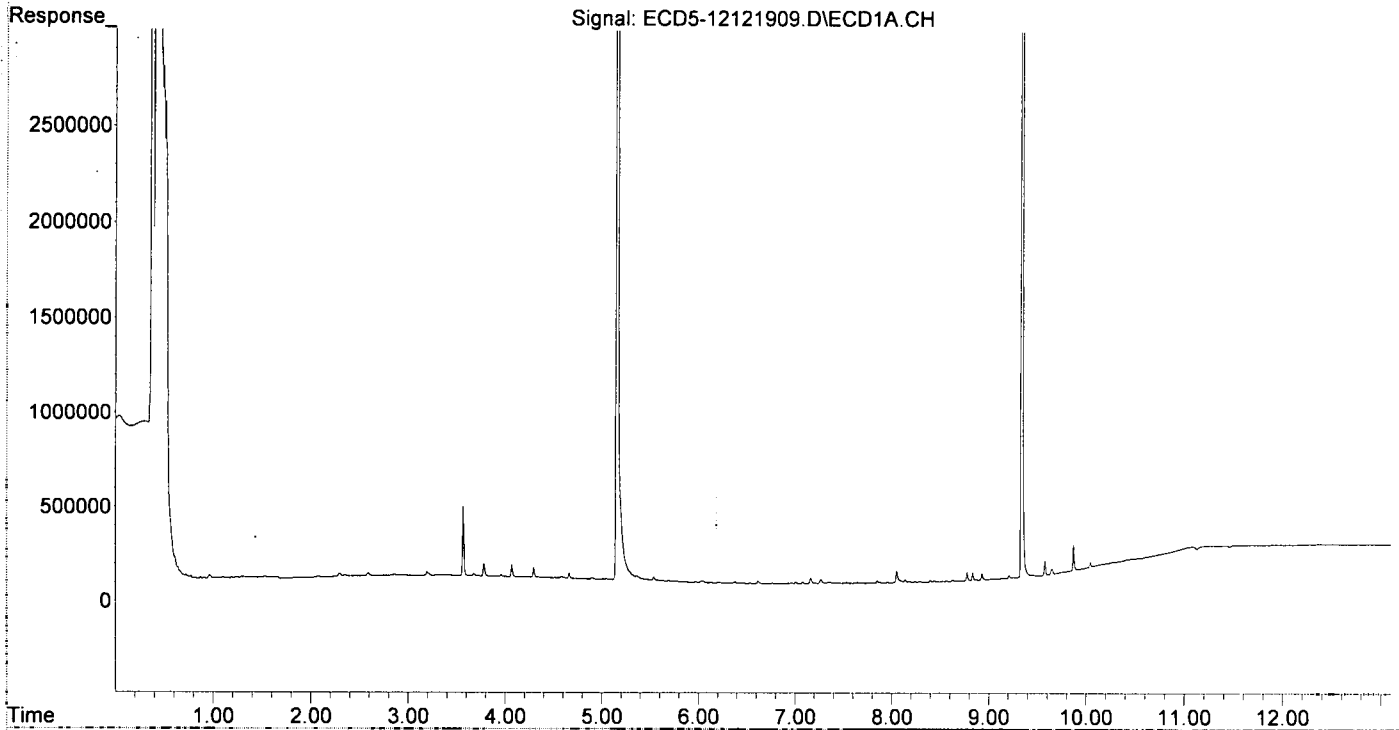
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.158	5.745	17100456	30569362	103.030	104.202
22) S DCBP (S)	9.342	10.248	13393657	20359393	94.924	113.257
Target Compounds						
2) a-BHC	5.692	6.351	5671	9724	0.025	0.024
3) g-BHC	5.973	6.668	4933	8244	0.024	0.023
4) b-BHC	6.044	0.000	8518	0	0.094	N.D. #
5) Heptachlor	6.381	7.035	7455	8191	0.041	0.027
6) d-BHC	6.204	6.989	5064	10042	0.026	0.028
7) Aldrin	6.619	7.296	13055	9583	0.066	0.029 #
8) Heptachlo...	7.079	7.734	7204	8449	0.039	0.028
9) trans-Chl...	7.163	7.874	27092	10703	0.147	0.034 #
10) cis-Chlor...	7.268	7.981	20559	7977	0.113	0.027 #
11) Endosulfa...	7.365	8.029	7763	7279	0.046	0.026 #
12) 4,4'-DDE	7.344	8.097	6790	8022	0.036	0.026
13) Dieldrin	7.536	8.228	6584	9131	0.034	0.030
14) Endrin	7.699	8.452	4729	11195	0.032	0.050 #
15) 4,4'-DDD	7.761	8.510	4394	6314	0.028	0.025
16) Endosulfa...	7.853	8.595	15446	13215	0.108	0.057 #
17) 4,4'-DDT	7.956	0.000	3269	0	0.027	N.D. #
18) Endrin Al...	8.141	8.836	16490	17637	BelowCal	BelowCal
19) Endosulfa...	8.441	9.026	8473	12317	0.055	0.049
20) Methoxychlor	8.295	9.194	5749	2108	0.098	BelowCal #
21) Endrin Ke...	8.632	9.431	7230	42402	0.043	0.165 #
23) Hexachlor...	0.000	3.479f	0	12022	N.D.	0.032 #
24) Hexachlor...	5.537	0.000	21409	0	0.121	N.D. #
25) Oxychlordane	7.009	7.632f	9982	14026	0.061	0.051
26) 2,4'-DDE	7.079	7.874	7204	10703	0.056	0.050
27) trans-Non...	7.268	7.897f	20559	24997	87346.586	0.083 #
28) 2,4'-DDD	0.000	8.228	0	9131	N.D.	0.048 #
29) 2,4'-DDT	7.648	8.452	5368	11195	0.049	0.063
30) cis-Nonac...	7.699f	8.510	4729	6314	0.023	0.019
31) Mirex	8.400	9.431f	10148	42402	0.081	0.228 #
32) Chlordane...	0.000	7.897f	0	24997	N.D.	0.691 #
33) Chlordane...	7.344f	8.029	6790	7279	0.271	0.240
34) Chlordane...	7.853	0.000	15446	0	2.672	N.D. #
35) Chlordane...	0.000	3.415	0	17790	N.D.	NoCal
36) Toxaphene...	7.268f	0.000	20559	0	22.955	N.D. #
37) Toxaphene...	0.000	8.595f	0	13215	N.D.	4.016 #
38) Toxaphene...	7.882	8.650	4377	96961	1.300	19.131 #
39) Toxaphene...	8.141	0.000	16490	0	5.089	N.D. #
40) Toxaphene...	8.400f	0.000	10148	0	4.233	N.D. #
41) Toxaphene...	8.441	9.277	8473	13020	2.677	2.741
42) Toxaphene...	0.000	3.415f	0	17790	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:41  
Operator : MJB  
Sample : 9L12029-CCB2  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:14 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121910.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 13:58  
 Operator : MJB  
 Sample : 9120706-BLK2  
 Misc : 1x, 608 (TTO), Endrin Aldehyde Only  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:54:21 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/12/19

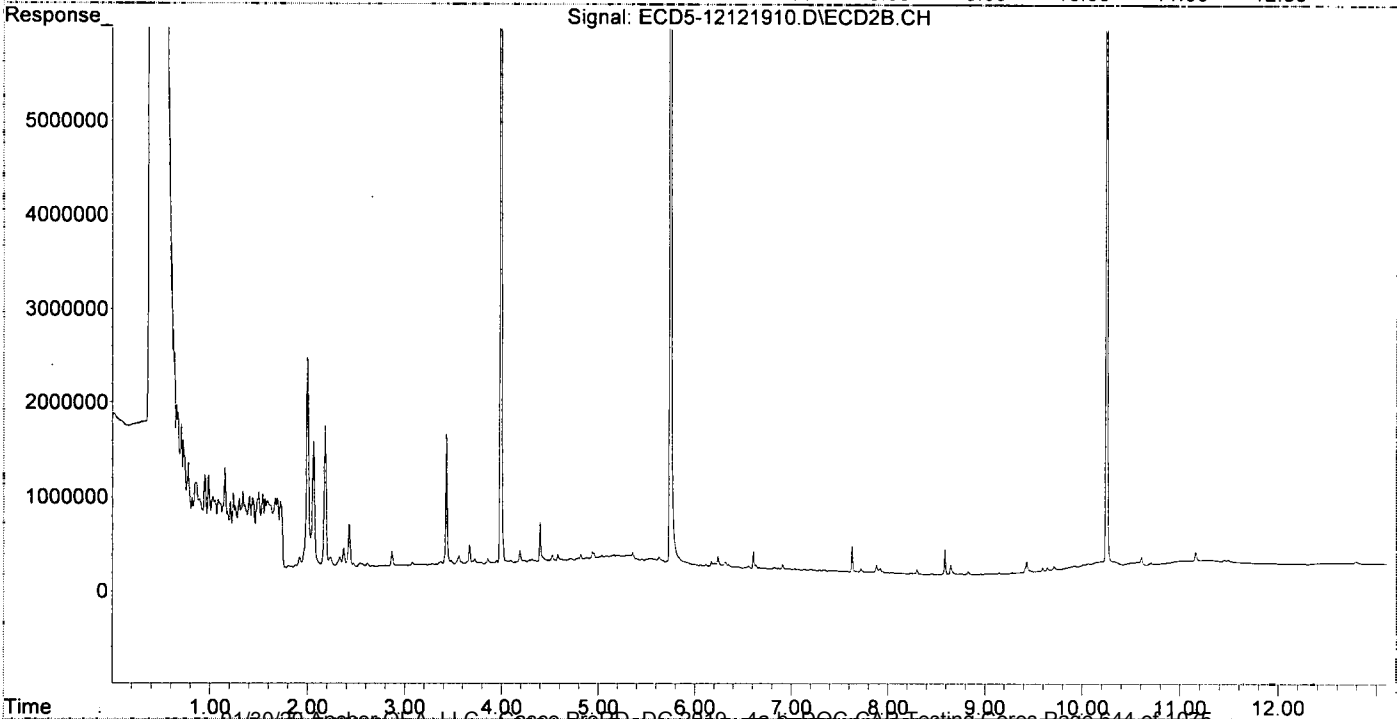
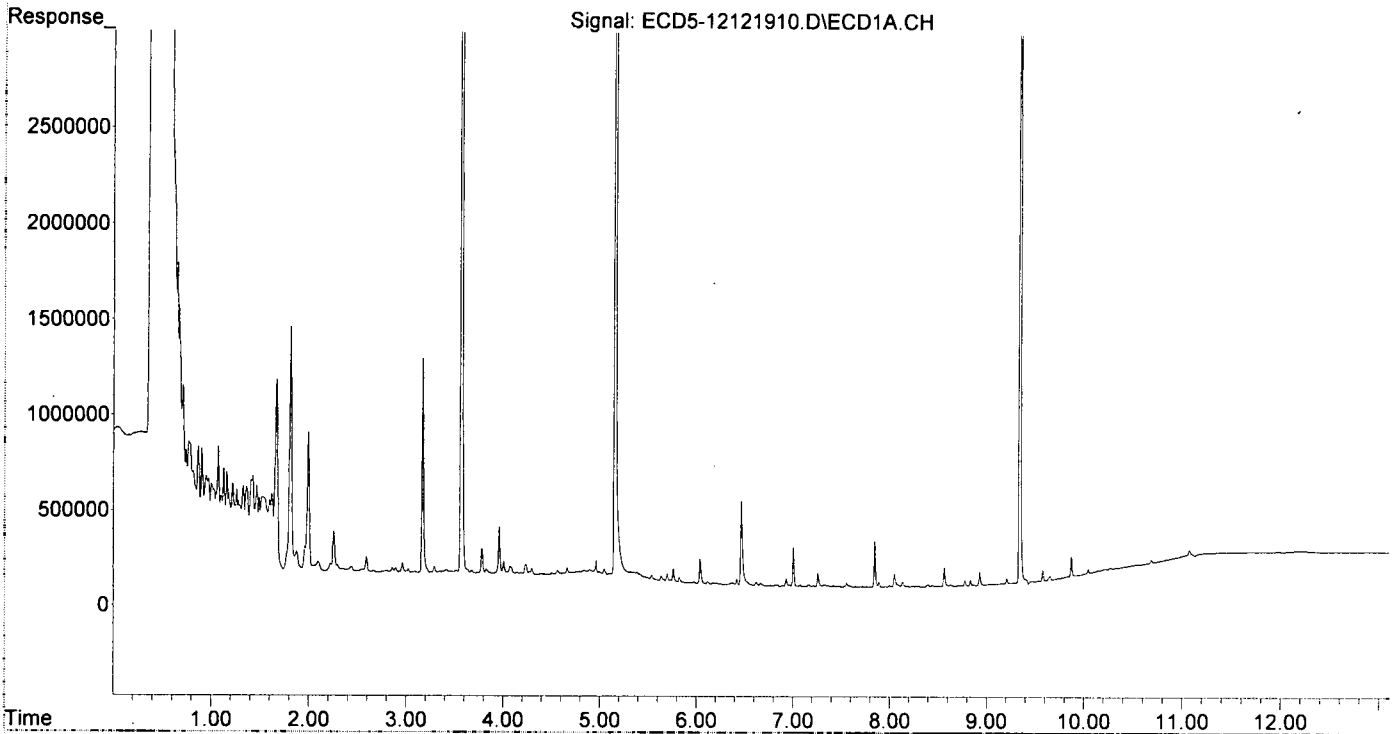
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.158	5.745	10640501	18269000	64.109	62.274
22) S DCBP (S)	9.342	10.248	10092553	14202769	71.528	79.008
Target Compounds						
2) a-BHC	5.699	6.349	46873	27412	0.204	0.067 #
3) g-BHC	5.974	6.667	10619	11427	0.053	0.032
4) b-BHC	6.040	6.729	133181	11608	1.474	0.073 #
5) Heptachlor	6.379	7.034	11758	11824	0.065	0.039 #
6) d-BHC	6.204	6.986	6544	13989	0.033	0.040
7) Aldrin	6.620	7.295	16083	10476	0.081	0.032 #
8) Heptachlo...	7.077	7.721	7025	38354	0.038	0.127 #
9) trans-Chl...	7.163	7.880	9528	80074	0.052	0.256 #
10) cis-Chlor...	7.259	7.981	72092	8519	0.396	0.029 #
11) Endosulfa...	7.364	8.028	5757	5812	0.034	0.021
12) 4,4'-DDE	7.322f	0.000	9702	0	0.051	N.D. #
13) Dieldrin	7.557f	8.229	20189	6245	0.105	0.021 #
14) Endrin	0.000	8.453	0	6069	N.D.	0.027 #
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	7.848	8.588	238698	271899	1.662	1.179
17) 4,4'-DDT	0.000	8.752f	0	5598	N.D.	BelowCal
18) Endrin Al...	8.137	8.828	25870	28129	BelowCal	BelowCal
19) Endosulfa...	8.441	9.026	6300	10618	0.041	0.043
20) Methoxychlor	8.294	9.211	3659	2416	0.062	BelowCal #
21) Endrin Ke...	8.632	9.430	8035	121984	0.048	0.474 #
23) Hexachlor...	2.960	3.429f	55830	1383163	0.306	3.679 #
24) Hexachlor...	5.537	6.211	37895	32184	0.215	0.102 #
25) Oxychlorane	7.005	7.661	203213	11085	1.235	0.040 #
26) 2,4'-DDE	7.077	7.880	7025	80074	0.055	0.377 #
27) trans-Non...	7.259	7.920	72092	46563	0.086	0.154 #
28) 2,4'-DDD	7.464	8.229	4262	6245	0.037	0.033
29) 2,4'-DDT	0.000	8.453	0	6069	N.D.	0.034 #
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.396	9.430f	10715	121984	0.085	0.656 #
32) Chlordane...	7.212	7.920	5708	46563	0.290	1.287 #
33) Chlordane...	7.322	8.028	9702	5812	0.387	0.191 #
34) Chlordane...	7.848	0.000	238698	0	41.289	N.D. #
35) Chlordane...	3.471	3.429	20994	1383163	NoCal	NoCal
36) Toxaphene...	7.322f	8.299f	9702	51912	10.832	19.782 #
37) Toxaphene...	7.585	8.588f	6059	271899	3.752	82.618 #
38) Toxaphene...	7.890	8.649	25355	100337	7.529	19.797 #
39) Toxaphene...	8.137	8.752f	25870	5598	7.984	0.670 #
40) Toxaphene...	8.396f	0.000	10715	0	4.470	N.D. #
41) Toxaphene...	8.441	9.277	6300	11243	1.991	2.367
42) Toxaphene...	3.471	3.429	20994	1383163	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121910.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 13:58  
Operator : MJB  
Sample : 9120706-BLK2  
Misc : 1x, 608 (TTO), Endrin Aldehyde Only  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:21 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121911.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 14:16  
 Operator : MJB  
 Sample : 9120706-BS2  
 Misc : 1x, 608 (TTO), Endrin Aldehyde Only ✓  
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:54:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

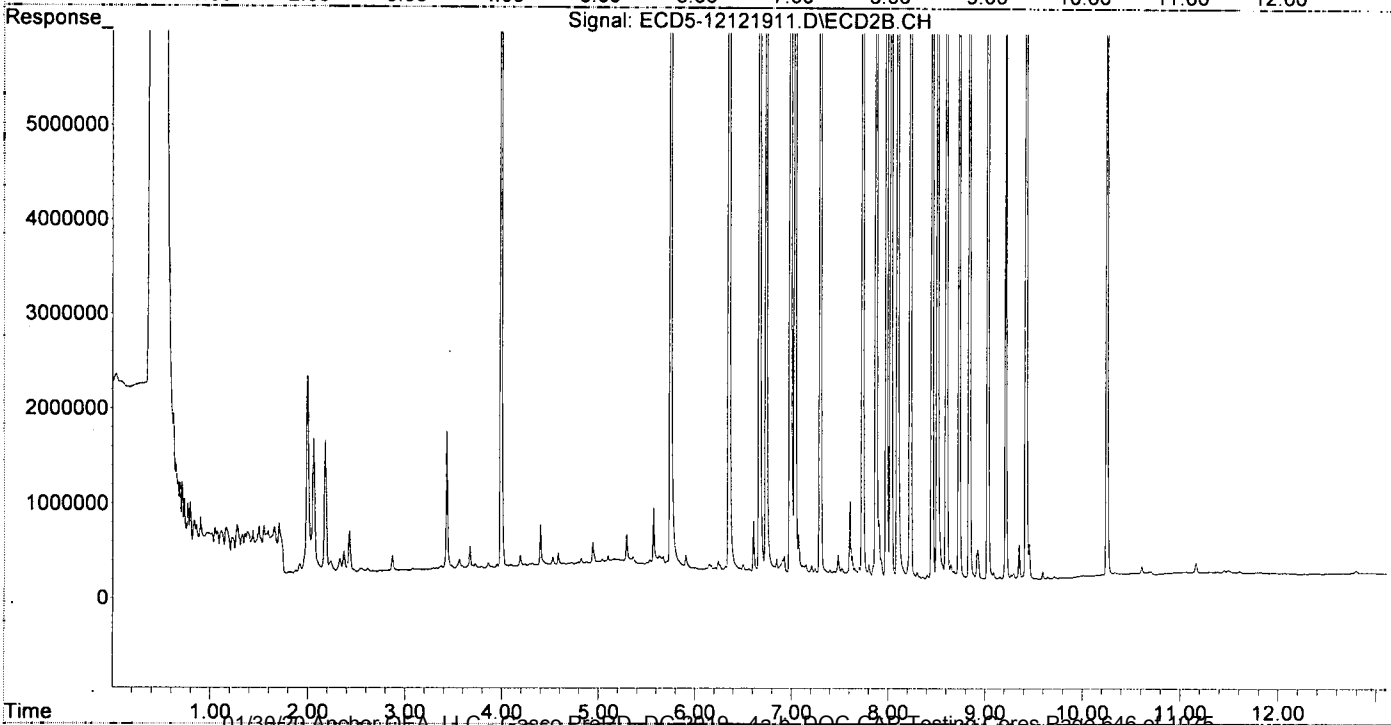
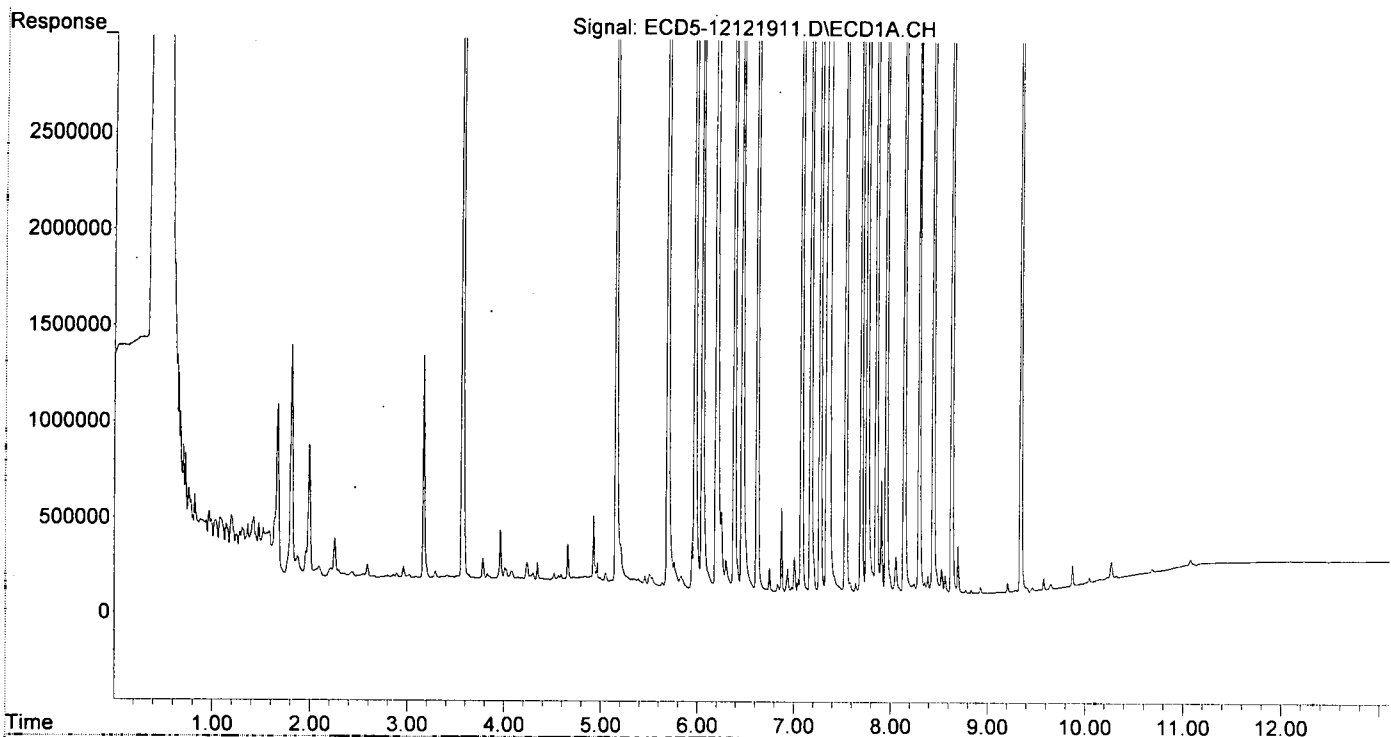
MJB  
12/12/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.158	5.745	10938929	19059717	65.907	64.969
22) S DCBP (S)	9.341	10.247	10442559	14770645	74.009	82.167
Target Compounds						
2) a-BHC	5.692	6.350	23439697	43188258	102.210	105.250
3) g-BHC	5.973	6.667	20404659	37339090	101.125	104.678
4) b-BHC	6.049	6.734	7925174	14916090	87.684	94.247
5) Heptachlor	6.381	7.035	16363965	27287842	90.261	89.183
6) d-BHC	6.195	6.986	18742782	37067040	95.291	105.105
7) Aldrin	6.619	7.296	16685105	30241189	84.505	91.809
8) Heptachlo...	7.077	7.734	18776999	31693665	101.950	105.348
9) trans-Chl...	7.173	7.873	18094160	31360632	97.864	100.090
10) cis-Chlor...	7.271	7.981	17779968	30263491	97.654	103.910
11) Endosulfa...	7.364	8.028	18293491	29263095	107.495	106.343
12) 4,4'-DDE	7.340	8.095	16705550	28720588	88.610	92.445
13) Dieldrin	7.535	8.227	20586923	33446938	107.235	109.969
14) Endrin	7.697	8.452	16078207	25455127	109.355	112.720
15) 4,4'-DDD	7.758	8.508	14573574	24508247	92.742	95.655
16) Endosulfa...	7.852	8.600	16623538	27219544	115.754	118.035
17) 4,4'-DDT	7.954	8.731	12406656	18484335	103.769	91.632
18) Endrin Al...	8.140	8.837	13462108	21435930	106.792	103.673
19) Endosulfa...	8.440	9.027	15448423	24667849	99.682	99.033
20) Methoxychlor	8.295	9.211	6691728	10179698	114.243	102.870
21) Endrin Ke...	8.631	9.419	18135340	28701064	108.752	111.540
23) Hexachlor...	2.959	3.428f	65950	1453415	0.361	3.866 #
24) Hexachlor...	5.533	6.210	51535	36795	0.292	0.117 #
25) Oxychlordane	7.005	7.651	178182	86261	1.083	0.315 #
26) 2,4'-DDE	7.077	7.873	18776999	31360632	146.397	147.831
27) trans-Non...	7.271	7.925	17779968	186749	99.036	0.619 #
28) 2,4'-DDD	0.000	8.227	0	33446938	N.D.	177.096 #
29) 2,4'-DDT	7.640	8.452	47467	25455127	0.433	142.734 #
30) cis-Nonac...	7.697f	8.508	16078207	24508247	77.442	73.061
31) Mirex	8.387	9.419	90301	28701064	0.720	154.246 #
32) Chlordane...	0.000	7.925	0	186749	N.D.	5.161 #
33) Chlordane...	7.340	8.028	16705550	29263095	666.508	963.741 #
34) Chlordane...	7.852	8.678	16623538	83926	2875.487	9.361 #
35) Chlordane...	0.000	3.428	0	1453415	N.D.	NoCal
36) Toxaphene...	7.271f	8.298f	17779968	64458	19851.526	24.563 #
37) Toxaphene...	0.000	8.600	0	27219544	N.D.	8270.840 #
38) Toxaphene...	7.906	8.648	588261	149678	174.688	29.532 #
39) Toxaphene...	8.140	8.731	13462108	18484335	4154.776	2213.737 #
40) Toxaphene...	8.355	8.925f	55097	309730	22.985	66.461 #
41) Toxaphene...	8.440	9.266	15448423	38097	4881.661	8.020 #
42) Toxaphene...	0.000	3.428	0	1453415	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121911.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 14:16  
Operator : MJB  
Sample : 9120706-BS2  
Misc : 1x, 608 (TTO), Endrin Aldehyde Only  
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:27 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121912.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 14:33  
 Operator : MJB  
 Sample : 9120706-BSD2  
 Misc : 1x, 608 (TTO), Endrin Aldehyde Only ✓  
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:54:35 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Q19

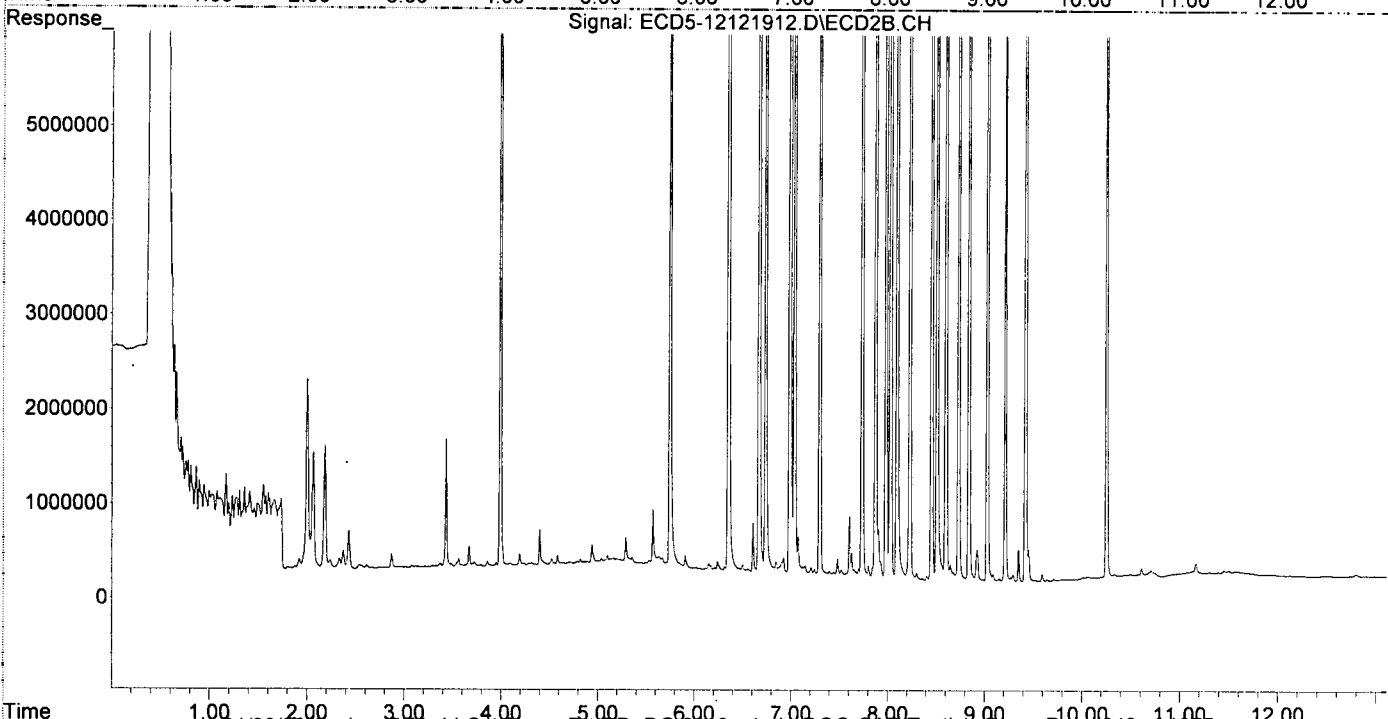
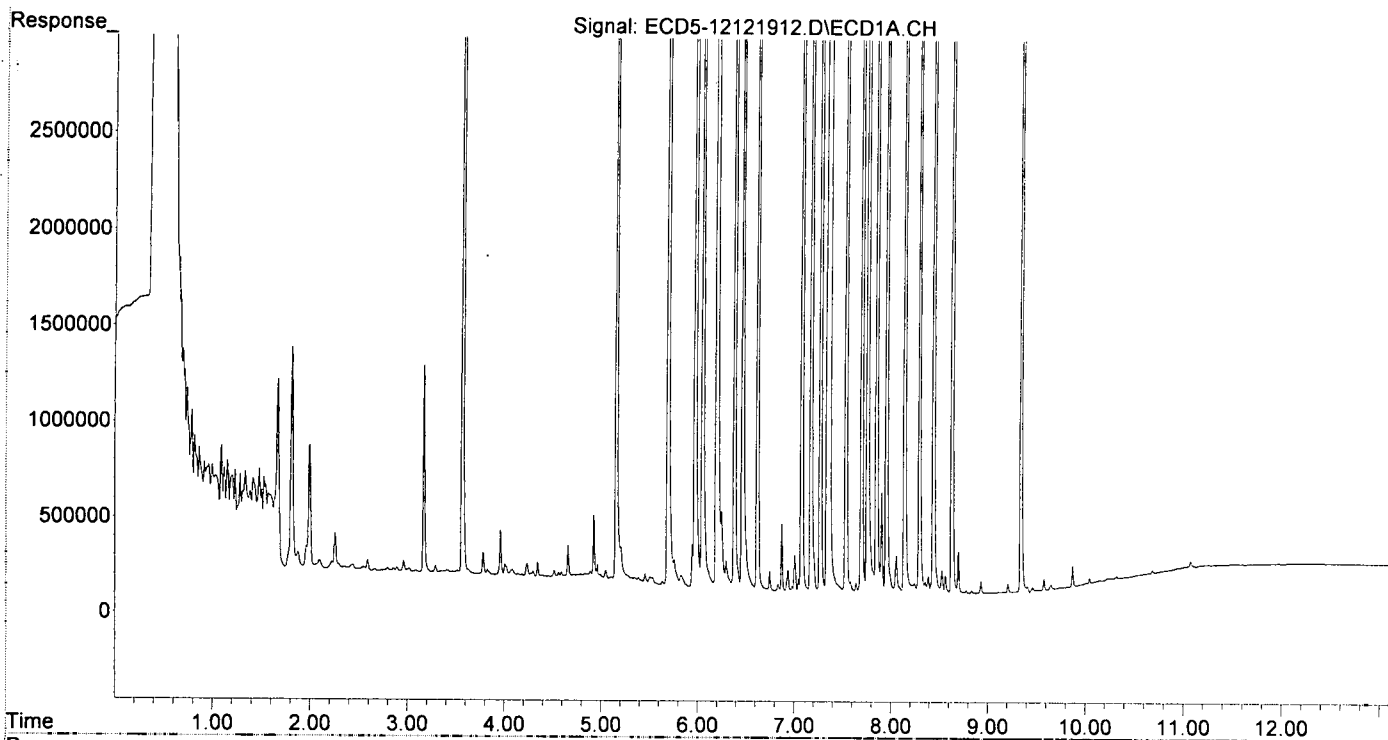
MJB 12/14/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.157	5.744	7382570	12589900	44.480	42.915
22) S DCBP (S)	9.341	10.247	9768435	13830659	69.231	76.938
Target Compounds						
2) a-BHC	5.691	6.350	22943021	42325394	100.044	103.147
3) g-BHC	5.972	6.667	19670381	36498503	97.486	102.322
4) b-BHC	6.049	6.734	7820473	14635864	86.525	92.476
5) Heptachlor	6.381	7.034	12411979	20736648	68.462	67.772
6) d-BHC	6.195	6.985	18549487	35278634	94.308	100.034
7) Aldrin	6.619	7.295	11295513	20353608	57.208	61.791
8) Heptachlo...	7.077	7.734	17968765	29865829	97.562	99.272
9) trans-Chl...	7.173	7.873	16948726	28136454	91.669	89.799
10) cis-Chlor...	7.270	7.980	16869632	28129577	92.654	96.583
11) Endosulfa...	7.363	8.028	17495415	27281678	102.805	99.142
12) 4,4'-DDE	7.340	8.094	15719776	27556412	83.381	88.698
13) Dieldrin	7.535	8.227	20302997	32984964	105.756	108.450
14) Endrin	7.697	8.452	16473160	25233787	112.042	111.739
15) 4,4'-DDD	7.758	8.507	14750045	23681469	93.865	92.429
16) Endosulfa...	7.852	8.600	16181264	26365723	112.674	114.332
17) 4,4'-DDT	7.954	8.730	12237052	18616020	102.351	92.199
18) Endrin Al...	8.140	8.836	13411984	21497181	106.417	103.941
19) Endosulfa...	8.439	9.027	15713355	25620165	101.391	102.856
20) Methoxychlor	8.294	9.211	6639900	9933203	113.359	100.759
21) Endrin Ke...	8.630	9.419	18114012	28594543	108.624	111.126
23) Hexachlor...	2.960	3.428f	56539	1360714	0.309	3.620 #
24) Hexachlor...	5.533	6.210	35521	70453	0.201	0.224
25) Oxychlordane	7.005	7.651	183062	88417	1.113	0.323 #
26) 2,4'-DDE	7.077	7.873	17968765	28136454	140.095	132.633
27) trans-Non...	7.270	7.925	16869632	182018	93.943	0.603 #
28) 2,4'-DDD	0.000	8.227	0	32984964	N.D.	174.650 #
29) 2,4'-DDT	7.640	8.452	45817	25233787	0.418	141.493 #
30) cis-Nonac...	7.697f	8.507	16473160	23681469	79.345	70.596
31) Mirex	8.386	9.419f	83539	28594543	0.666	153.674 #
32) Chlordane...	0.000	7.925	0	182018	N.D.	5.030 #
33) Chlordane...	7.340	8.028	15719776	27281678	627.178	898.486 #
34) Chlordane...	7.852	8.677f	16181264	82649	2798.984	9.218 #
35) Chlordane...	0.000	3.428	0	1360714	N.D.	NoCal
36) Toxaphene...	7.270f	8.298f	16869632	66685	18835.126	25.411 #
37) Toxaphene...	0.000	8.600	0	26365723	N.D.	8011.401 #
38) Toxaphene...	7.905	8.646	523461	155952	155.446	30.770 #
39) Toxaphene...	8.140	8.730	13411984	18616020	4139.306	2229.508 #
40) Toxaphene...	8.386f	8.922f	83539	326791	34.849	70.121 #
41) Toxaphene...	8.439	9.265	15713355	42470	4965.379	8.941 #
42) Toxaphene...	0.000	3.428	0	1360714	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121912.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 14:33  
Operator : MJB  
Sample : 9120706-BSD2  
Misc : 1x, 608 (TTO), Endrin Aldehyde Only  
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:54:35 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121916.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 15:42  
 Operator : MJB  
 Sample : 9L12029-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 16:12:49 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 12/12/19*

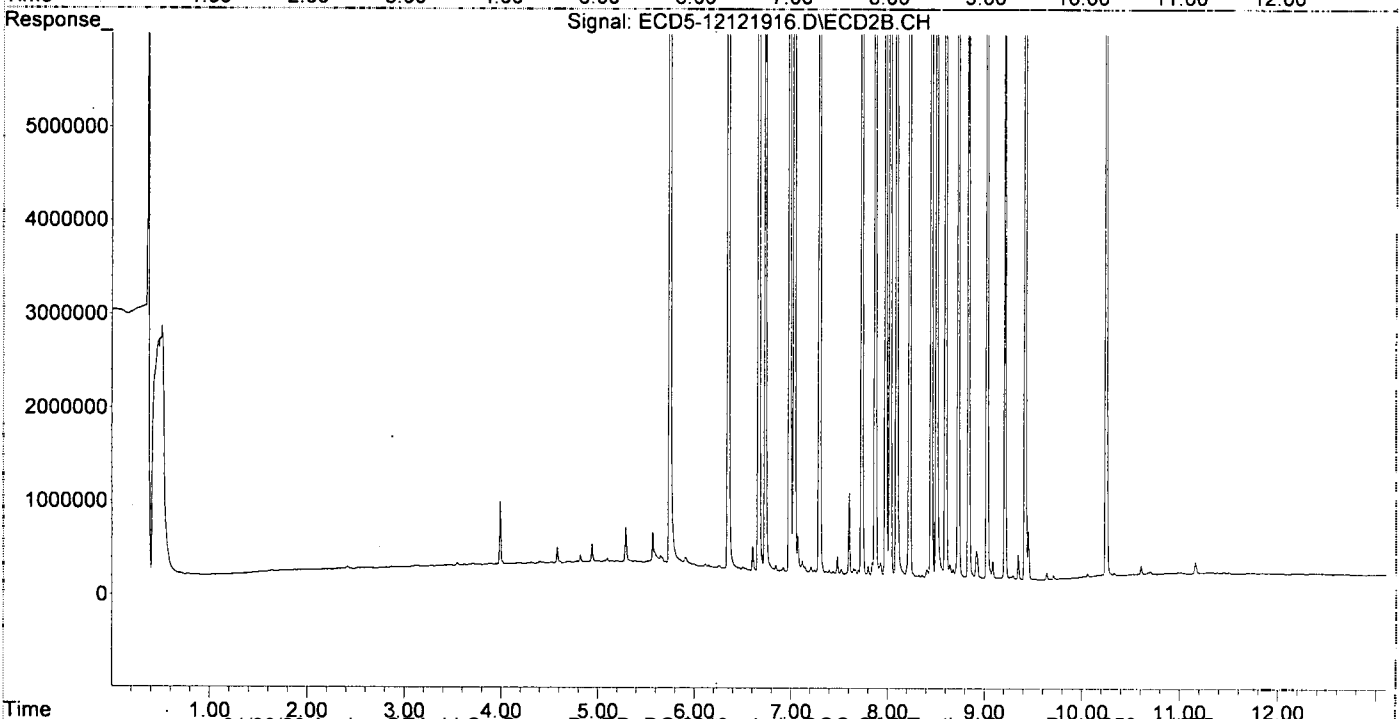
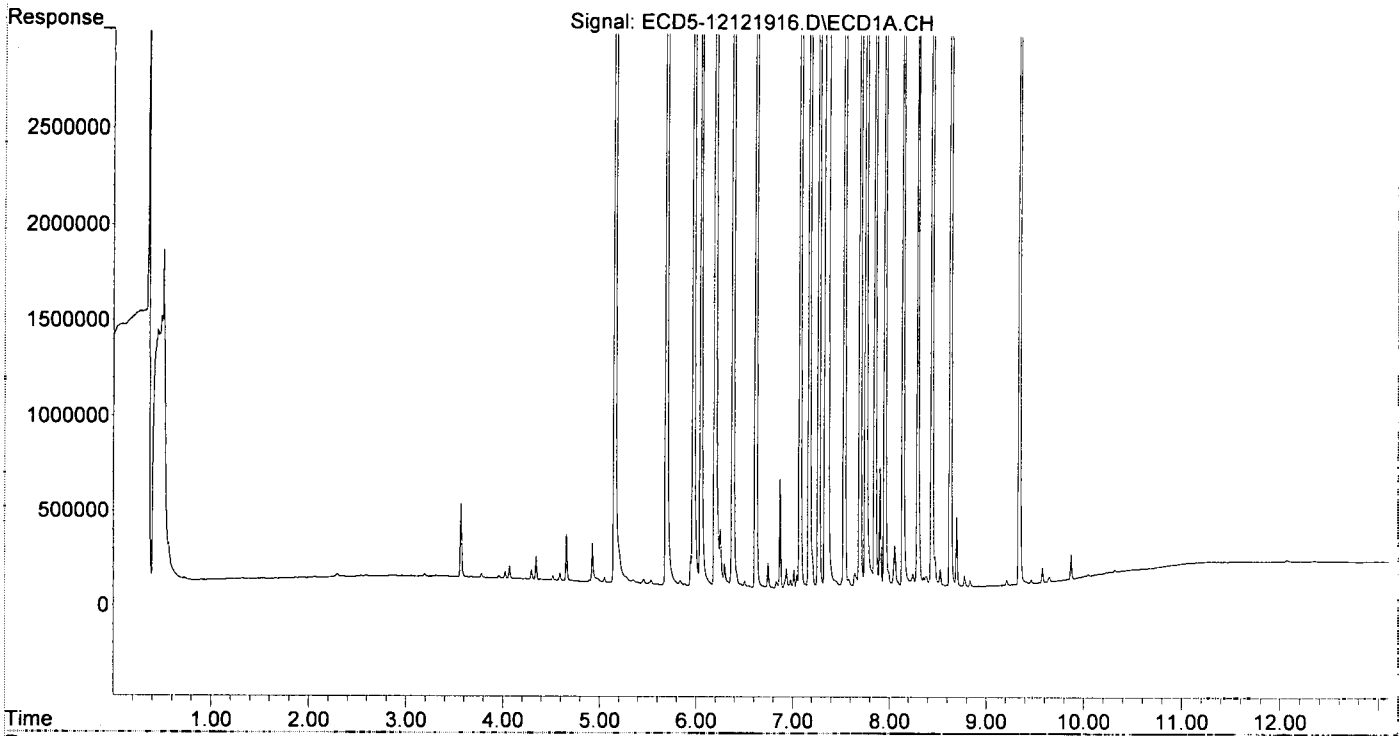
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.157	5.743	17783656	31063735	107.146	105.887
22) S DCBP (S)	9.341	10.246	13546161	20751394	96.005	115.437
Target Compounds						
2) a-BHC	5.691	6.349	25908997	46424322	112.977	113.136
3) g-BHC	5.972	6.666	22391868	39210187	110.973	109.924
4) b-BHC	6.049	6.733	8845188	15947137	97.863	100.762
5) Heptachlor	6.380	7.034	20748505	34850218	114.445	113.898
6) d-BHC	6.196	6.985	20455326	37757721	103.998	107.064
7) Aldrin	6.618	7.296	21416249	38380794	108.467	116.520
8) Heptachlo...	7.076	7.733	20010170	33210911	108.646	110.391
9) trans-Chl...	7.172	7.872	20837340	32903435	112.700	105.013
10) cis-Chlor...	7.269	7.980	19716061	31319737	108.288	107.537
11) Endosulfa...	7.362	8.027	19007447	29887388	111.690m	108.612
12) 4,4'-DDE	7.338	8.093	19988758	34013327	106.024m	109.481
13) Dieldrin	7.534	8.227	21216795	34586222	110.516	113.714
14) Endrin	7.696	8.451	18071227	27911141	122.911	123.595
15) 4,4'-DDD	7.757	8.506	17263310	27753256	109.859	108.321
16) Endosulfa...	7.851	8.598	16251531	27312928	113.163	118.440
17) 4,4'-DDT	7.953	8.729	13205681	19521677	110.452	96.077
18) Endrin Al...	8.140	8.835	10777340	17711844	86.437	87.067
19) Endosulfa...	8.439	9.025	15262492	24051240	98.482	96.557
20) Methoxychlor	8.293	9.210	6587985	9516641	112.472	97.161
21) Endrin Ke...	8.630	9.418	17534007	26132624	105.146	101.558
23) Hexachlor...	0.000	3.476f	0	10726	N.D.	0.029 #
24) Hexachlor...	5.534	0.000	23457	0	0.133	N.D. #
25) Oxychlordane	7.012	7.650	94041	62747	0.572	0.229 #
26) 2,4'-DDE	7.076	7.872	20010170	32903435	156.011	155.104
27) trans-Non...	7.269	7.927	19716061	138550	109.868	0.459 #
28) 2,4'-DDD	0.000	8.227	0	34586222	N.D.	183.128 #
29) 2,4'-DDT	7.645	8.451	70639	27911141	0.644	156.506 #
30) cis-Nonac...	7.696f	8.506	18071227	27753256	87.042	82.734
31) Mirex	8.381	9.418	53936	26132624	0.430	140.443 #
32) Chlordane...	0.000	7.927	0	138550	N.D.	3.829 #
33) Chlordane...	7.339	8.027	19743158	29887388	787.701	984.301
34) Chlordane...	7.851	8.677f	16251531	92740	2811.138	10.344 #
35) Chlordane...	0.000	3.412f	0	6772	N.D.	NoCal
36) Toxaphene...	7.269f	0.000	19716061	0	22013.195	N.D. #
37) Toxaphene...	0.000	8.598	0	27312928	N.D.	8299.216 #
38) Toxaphene...	7.905	8.643	624867	142358	185.559	28.088 #
39) Toxaphene...	8.140	8.729	10777340	19521677	3326.183	2337.972
40) Toxaphene...	8.381	8.916f	53936	288647	22.500	61.937 #
41) Toxaphene...	8.439	9.264	15262492	24468	4822.908	5.151 #
42) Toxaphene...	0.000	3.412f	0	6772	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121916.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 15:42  
Operator : MJB  
Sample : 9L12029-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 16:12:49 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

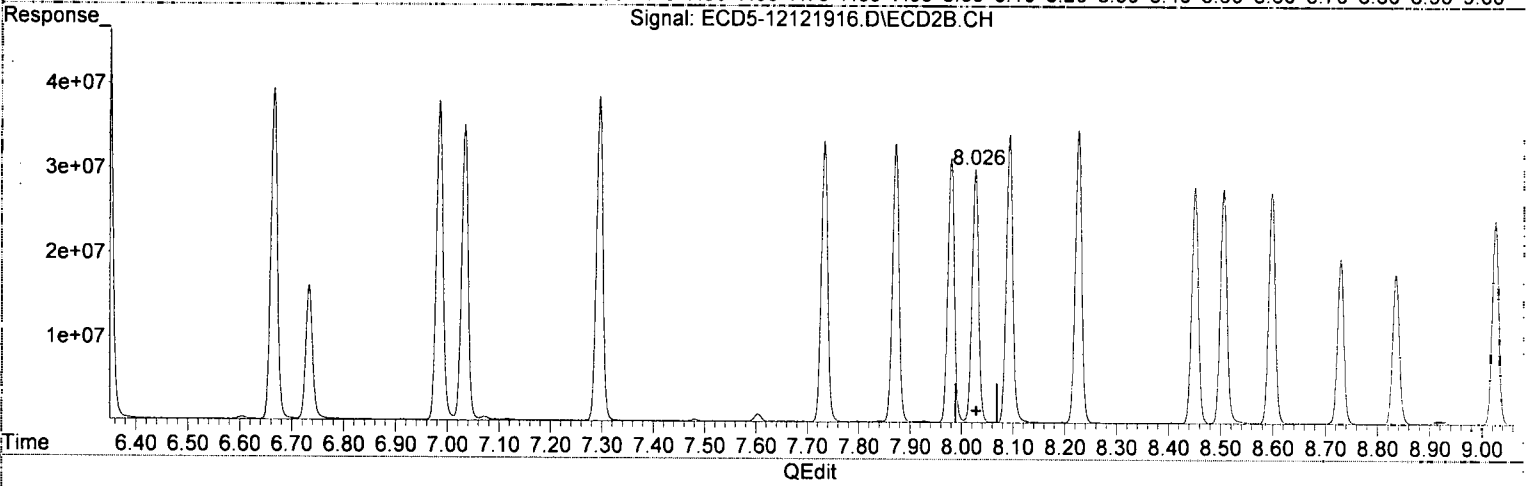
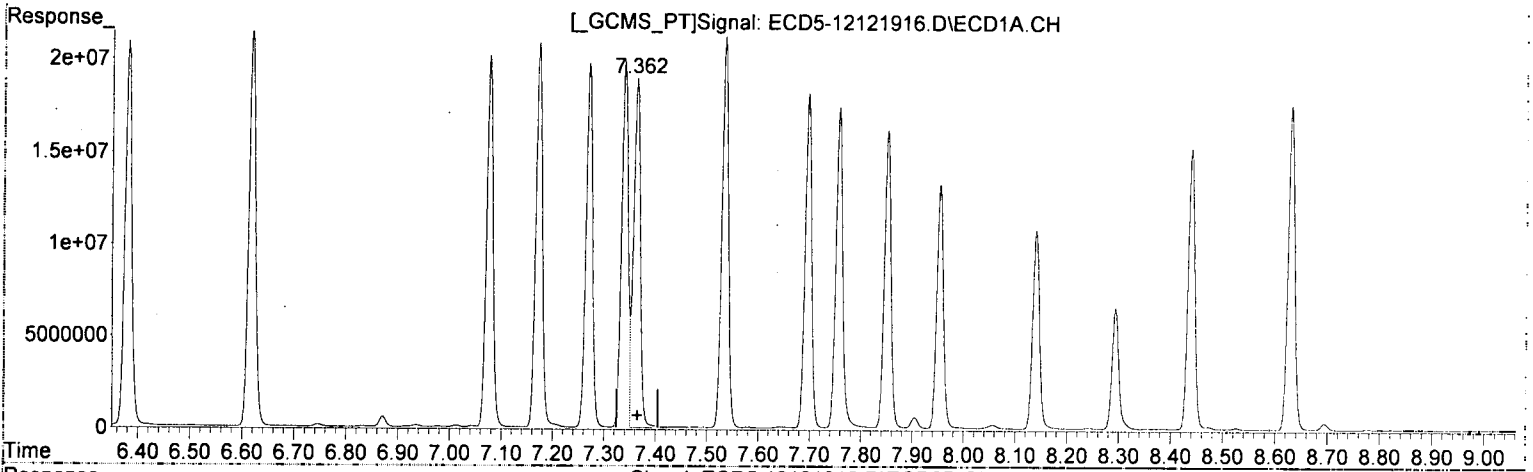




Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121916.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 15:42  
Operator : MJB  
Sample : 9L12029-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:59:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(11) Endosulfan I  
7.362min 111.690 ng/mL  
response 19007447

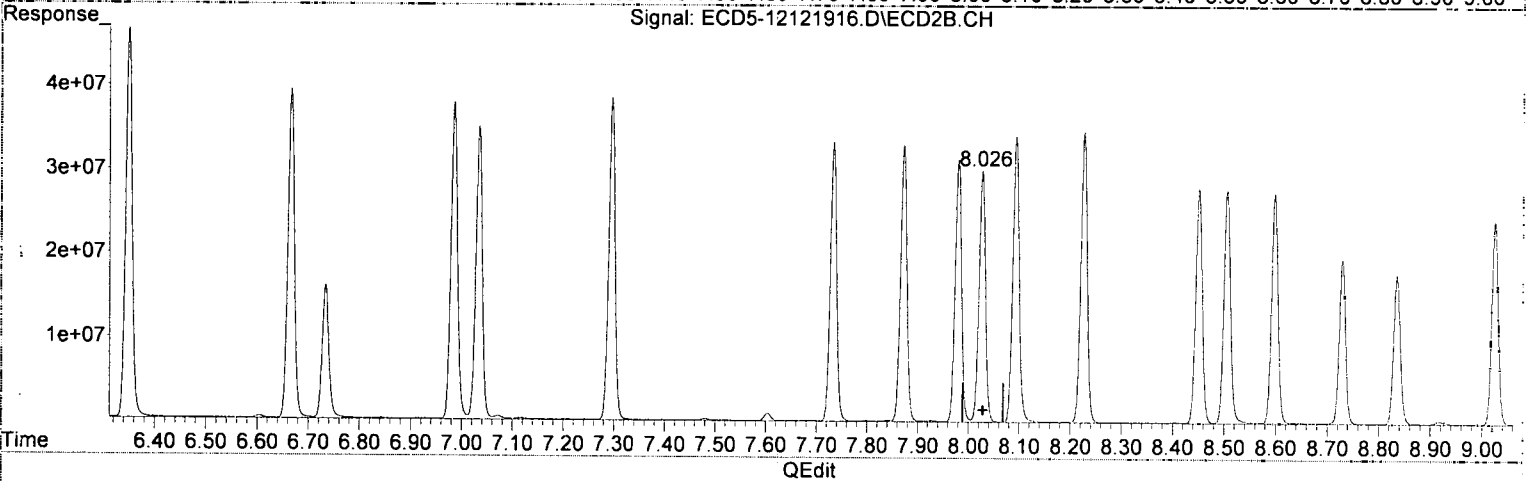
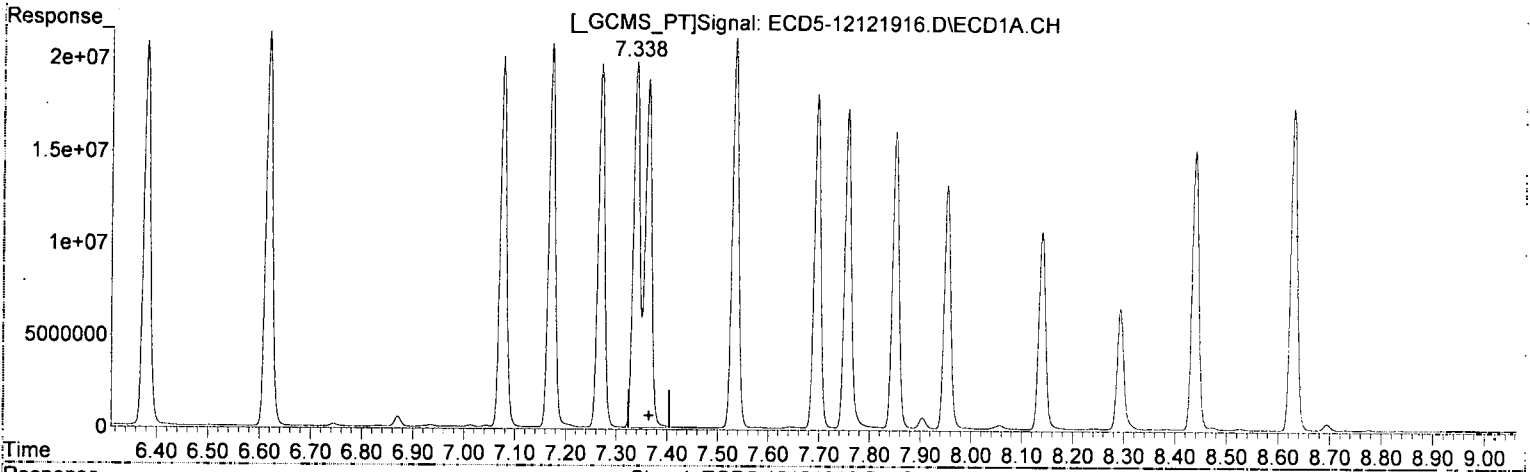
MJB  
12/12/19

(11) Endosulfan I #2  
8.027min 108.612 ng/mL  
response 29887388

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121916.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 15:42  
 Operator : MJB  
 Sample : 9L12029-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:59:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(11) Endosulfan I  
 7.339min 116.013 ng/mL  
 response 19743158

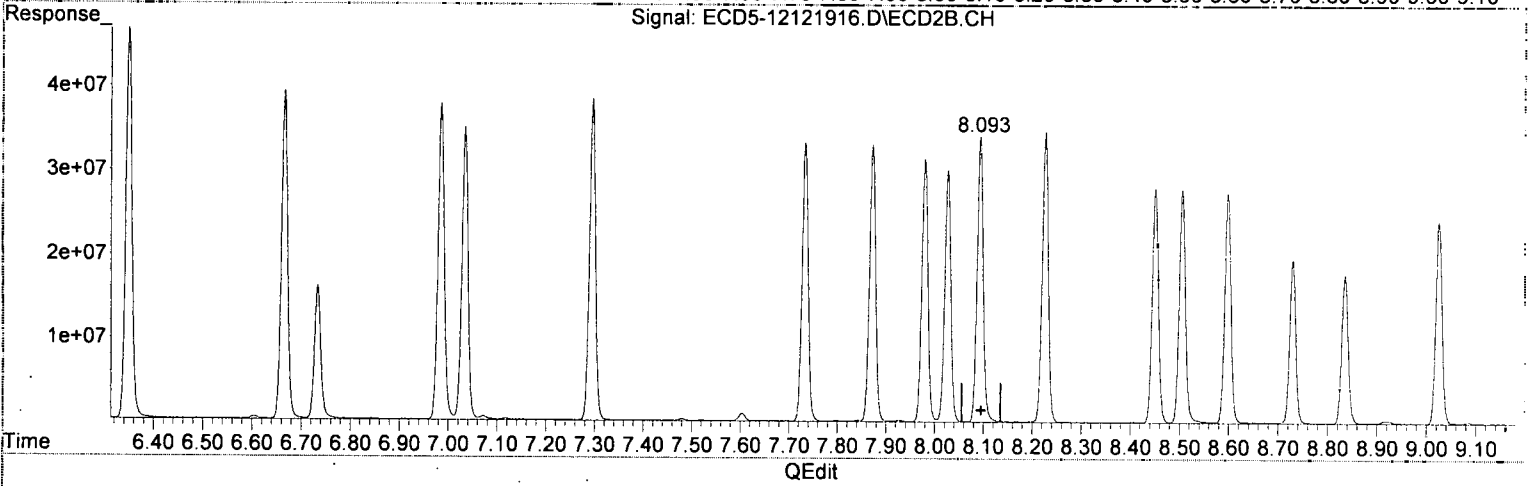
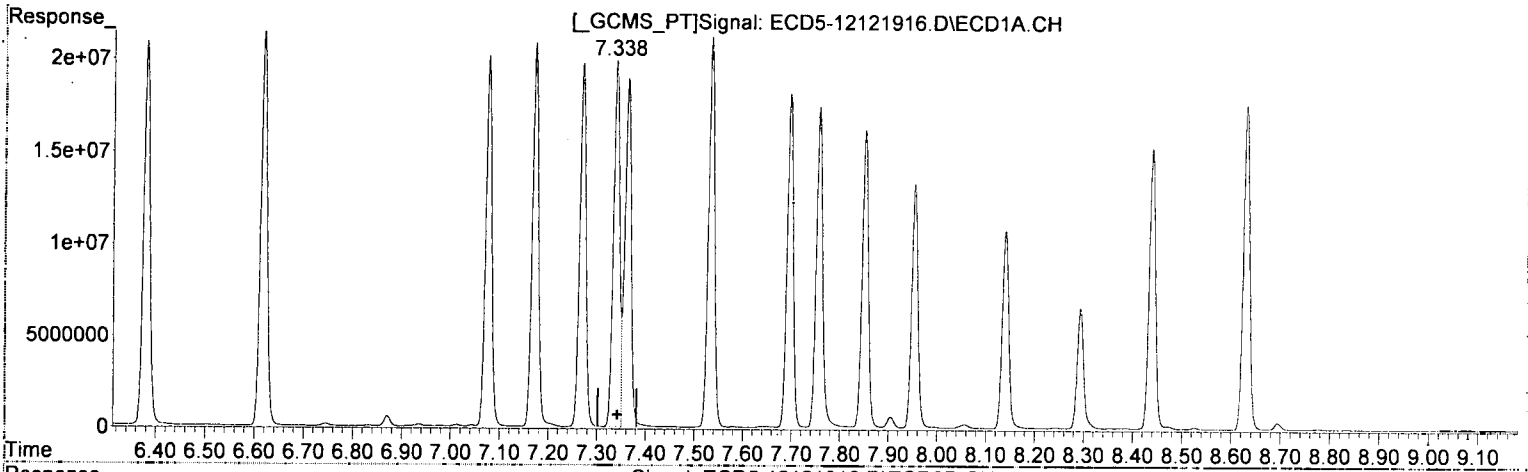
*MJB  
12/12/19*

(11) Endosulfan I #2  
 8.027min 108.612 ng/mL  
 response 29887388

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121916.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 15:42  
Operator : MJB  
Sample : 9L12029-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:59:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE

7.338min 106.024 ng/mL(m)  
response 19988758

MJB  
12/12/19

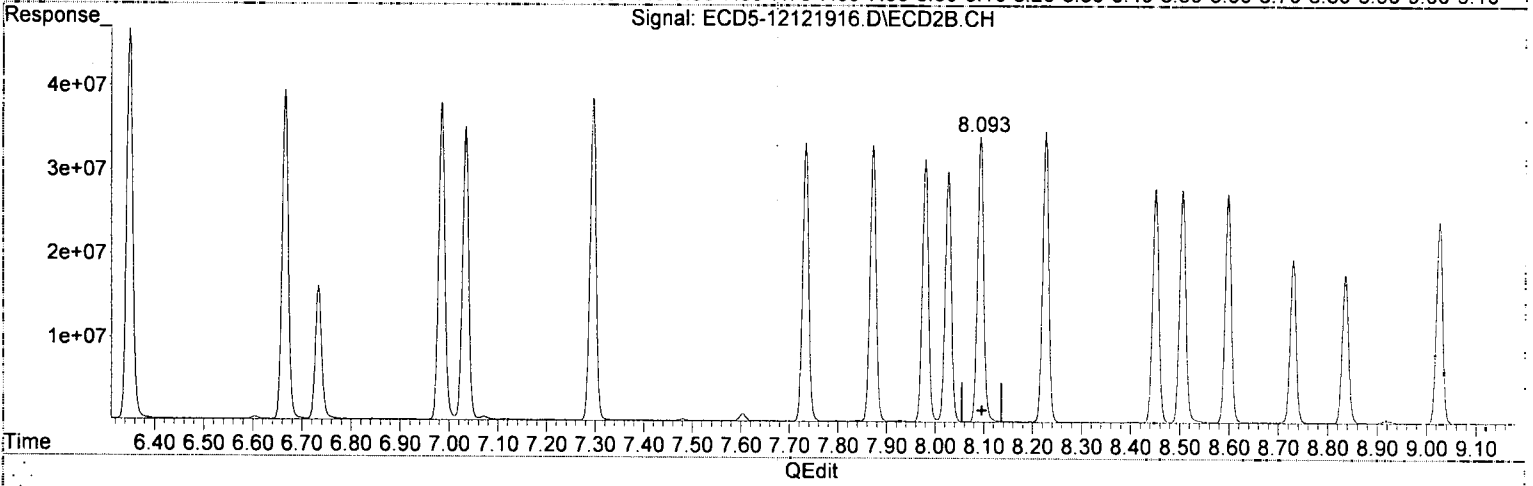
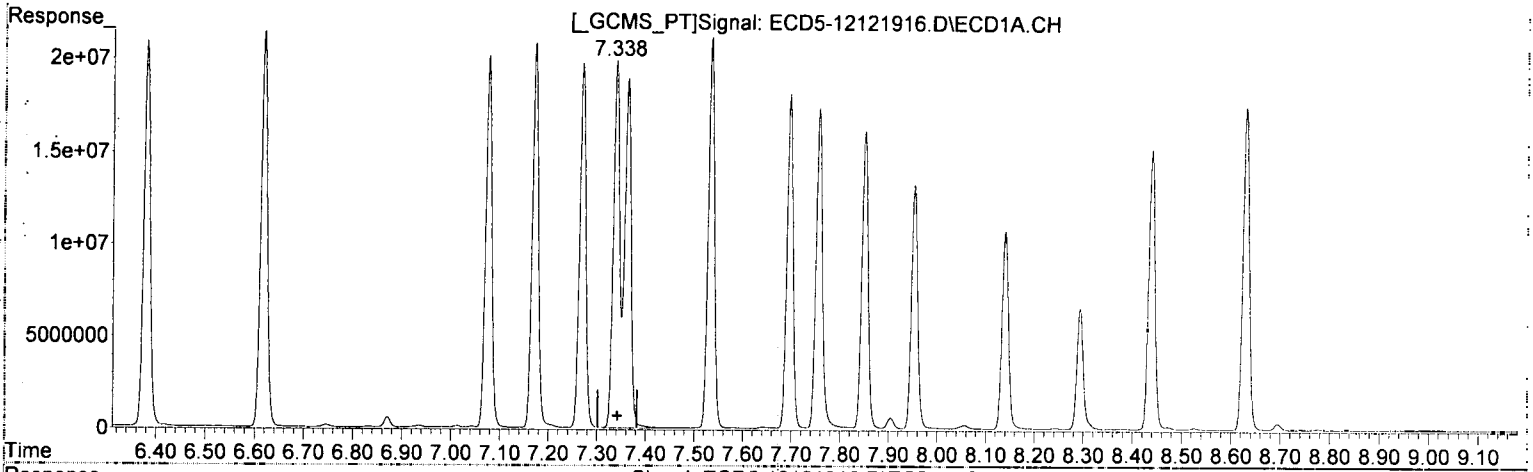
(12) 4,4'-DDE #2

8.093min 109.481 ng/mL  
response 34013327

Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121916.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 15:42  
Operator : MJB  
Sample : 9L12029-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:59:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.339min 104.722 ng/mL  
response 19743158

*MJB  
12/12/19*

(12) 4,4'-DDE #2  
8.093min 109.481 ng/mL  
response 34013327

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121916.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 15:42  
 Operator : MJB  
 Sample : 9L12029-CCV3  
 Misc : A19K134, AB 100 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 15:59:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/12/19*

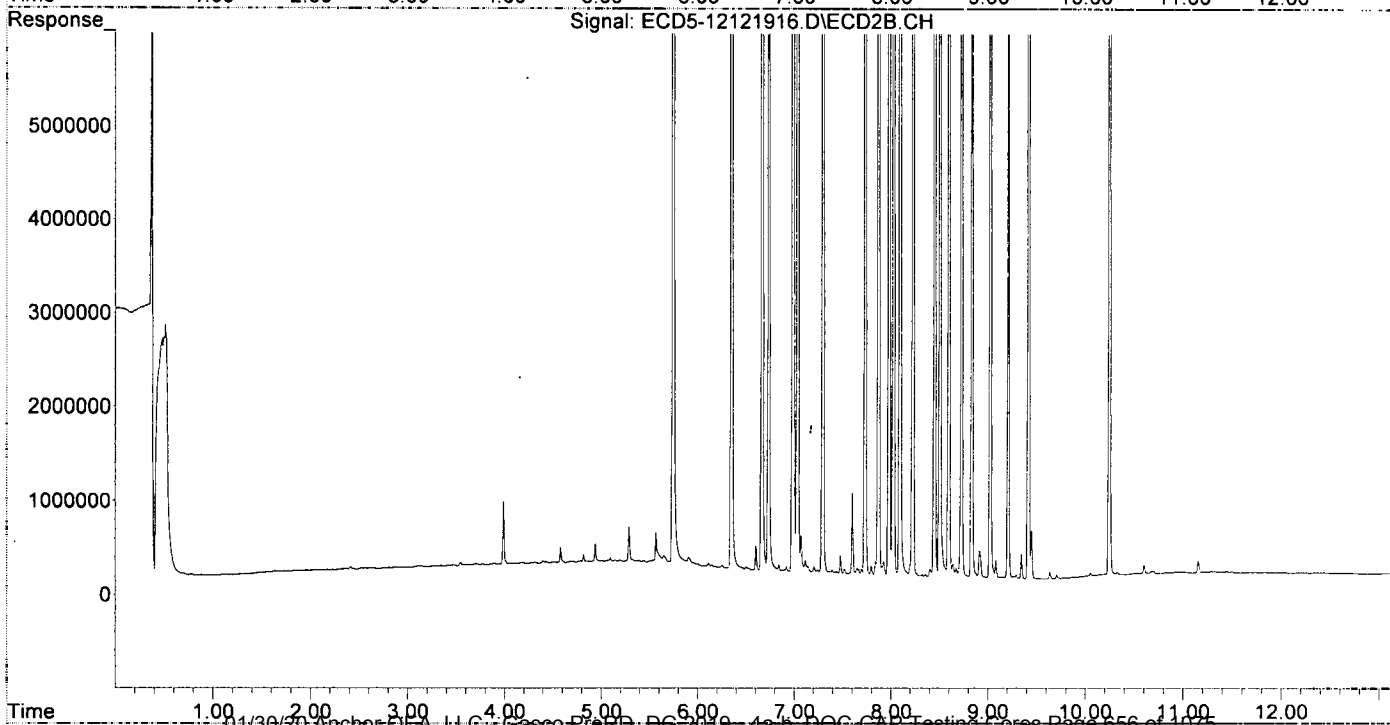
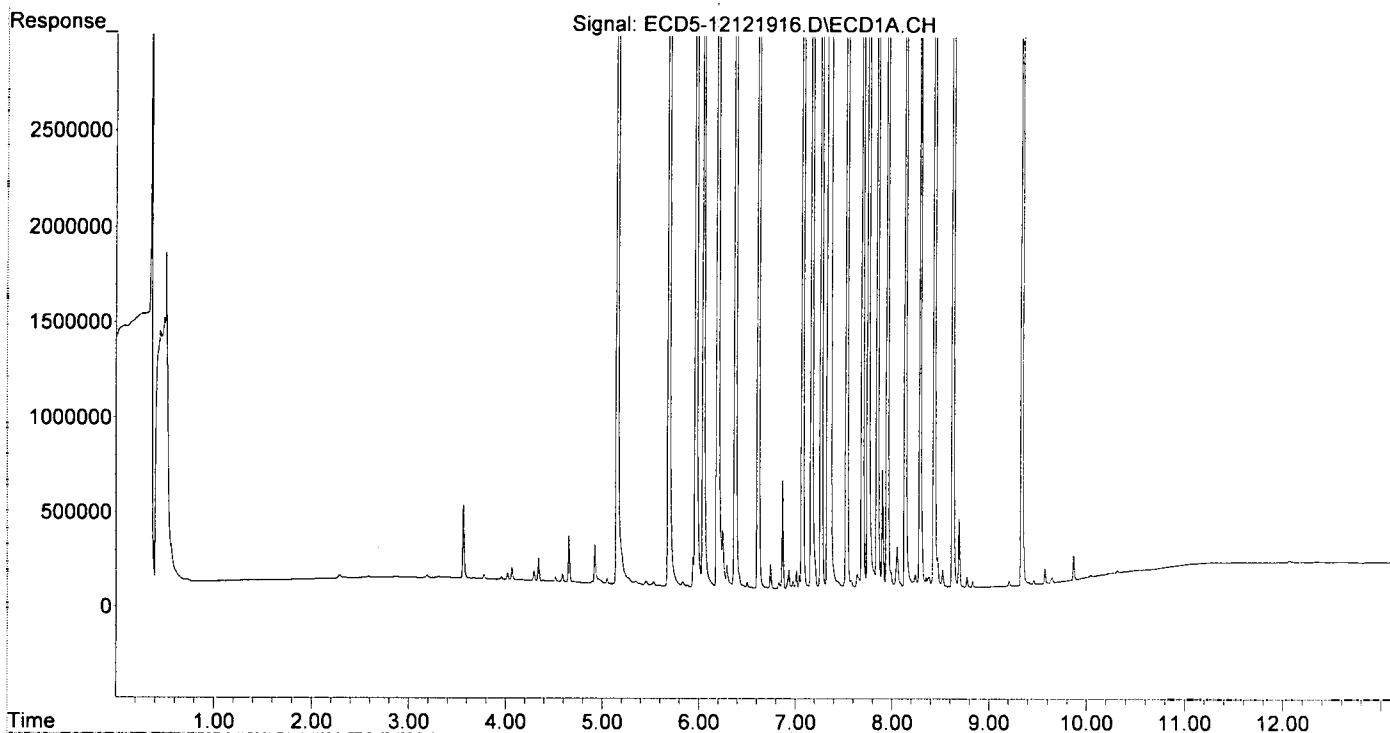
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.157	5.743	17783656	31063735	107.146	105.887
22) S DCBP (S)	9.341	10.246	13546161	20751394	96.005	115.437
Target Compounds						
2) a-BHC	5.691	6.349	25908997	46424322	112.977	113.136
3) g-BHC	5.972	6.666	22391868	39210187	110.973	109.924
4) b-BHC	6.049	6.733	8845188	15947137	97.863	100.762
5) Heptachlor	6.380	7.034	20748505	34850218	114.445	113.898
6) d-BHC	6.196	6.985	20455326	37757721	103.998	107.064
7) Aldrin	6.618	7.296	21416249	38380794	108.467	116.520
8) Heptachlo...	7.076	7.733	20010170	33210911	108.646	110.391
9) trans-Chl...	7.172	7.872	20837340	32903435	112.700	105.013
10) cis-Chlor...	7.269	7.980	19716061	31319737	108.288	107.537
11) Endosulfa...	7.339f	8.027	19743158	29887388	116.013	108.612
12) 4,4'-DDE	7.339	8.093	19743158	34013327	104.722	109.481
13) Dieldrin	7.534	8.227	21216795	34586222	110.516	113.714
14) Endrin	7.696	8.451	18071227	27911141	122.911	123.595
15) 4,4'-DDD	7.757	8.506	17263310	27753256	109.859	108.321
16) Endosulfa...	7.851	8.598	16251531	27312928	113.163	118.440
17) 4,4'-DDT	7.953	8.729	13205681	19521677	110.452	96.077
18) Endrin Al...	8.140	8.845	10777340	17711844	86.437	87.067
19) Endosulfa...	8.439	9.025	15262492	24051240	98.482	96.557
20) Methoxychlor	8.293	9.210	6587985	9516641	112.472	97.161
21) Endrin Ke...	8.630	9.418	17534007	26132624	105.146	101.558
23) Hexachlor...	0.000	3.476f	0	10726	N.D.	0.029 #
24) Hexachlor...	5.534	0.000	23457	0	0.133	N.D. #
25) Oxychlordane	7.012	7.650	94041	62747	0.572	0.229 #
26) 2,4'-DDE	7.076	7.872	20010170	32903435	156.011	155.104
27) trans-Non...	7.269	7.927	19716061	138550	109.868	0.459 #
28) 2,4'-DDD	0.000	8.227	0	34586222	N.D.	183.128 #
29) 2,4'-DDT	7.645	8.451	70639	27911141	0.644	156.506 #
30) cis-Nonac...	7.696f	8.506	18071227	27753256	87.042	82.734
31) Mirex	8.381	9.418	53936	26132624	0.430	140.443 #
32) Chlordane...	0.000	7.927	0	138550	N.D.	3.829 #
33) Chlordane...	7.339	8.027	19743158	29887388	787.701	984.301
34) Chlordane...	7.851	8.677f	16251531	92740	2811.138	10.344 #
35) Chlordane...	0.000	3.412f	0	6772	N.D.	NoCal
36) Toxaphene...	7.269f	0.000	19716061	0	22013.195	N.D. #
37) Toxaphene...	0.000	8.598	0	27312928	N.D.	8299.216 #
38) Toxaphene...	7.905	8.643	624867	142358	185.559	28.088 #
39) Toxaphene...	8.140	8.729	10777340	19521677	3326.183	2337.972
40) Toxaphene...	8.381	8.916f	53936	288647	22.500	61.937 #
41) Toxaphene...	8.439	9.264	15262492	24468	4822.908	5.151 #
42) Toxaphene...	0.000	3.412f	0	6772	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121916.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 15:42  
Operator : MJB  
Sample : 9L12029-CCV3  
Misc : A19K134, AB 100 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 15:59:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121917.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 15:59  
 Operator : MJB  
 Sample : 9L12029-CCV4  
 Misc : A19J409, AB 100 ppb  
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 16:25:00 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

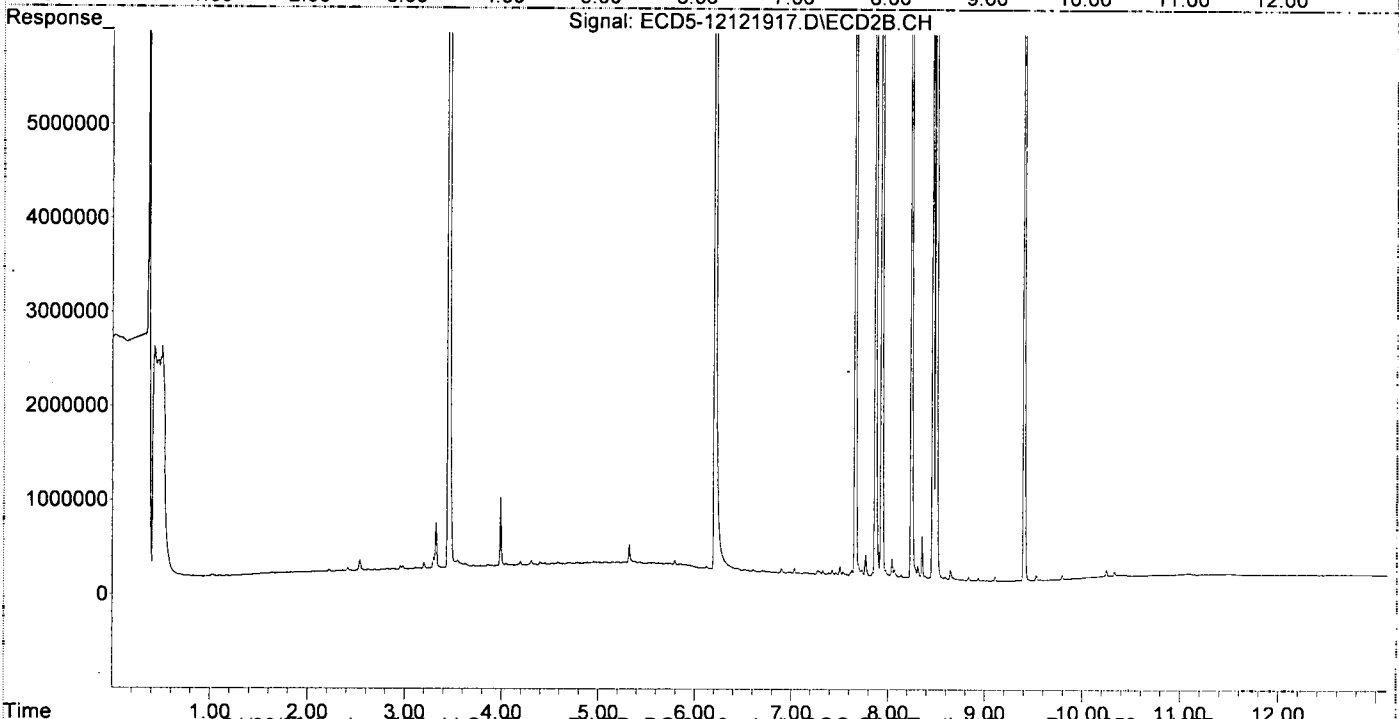
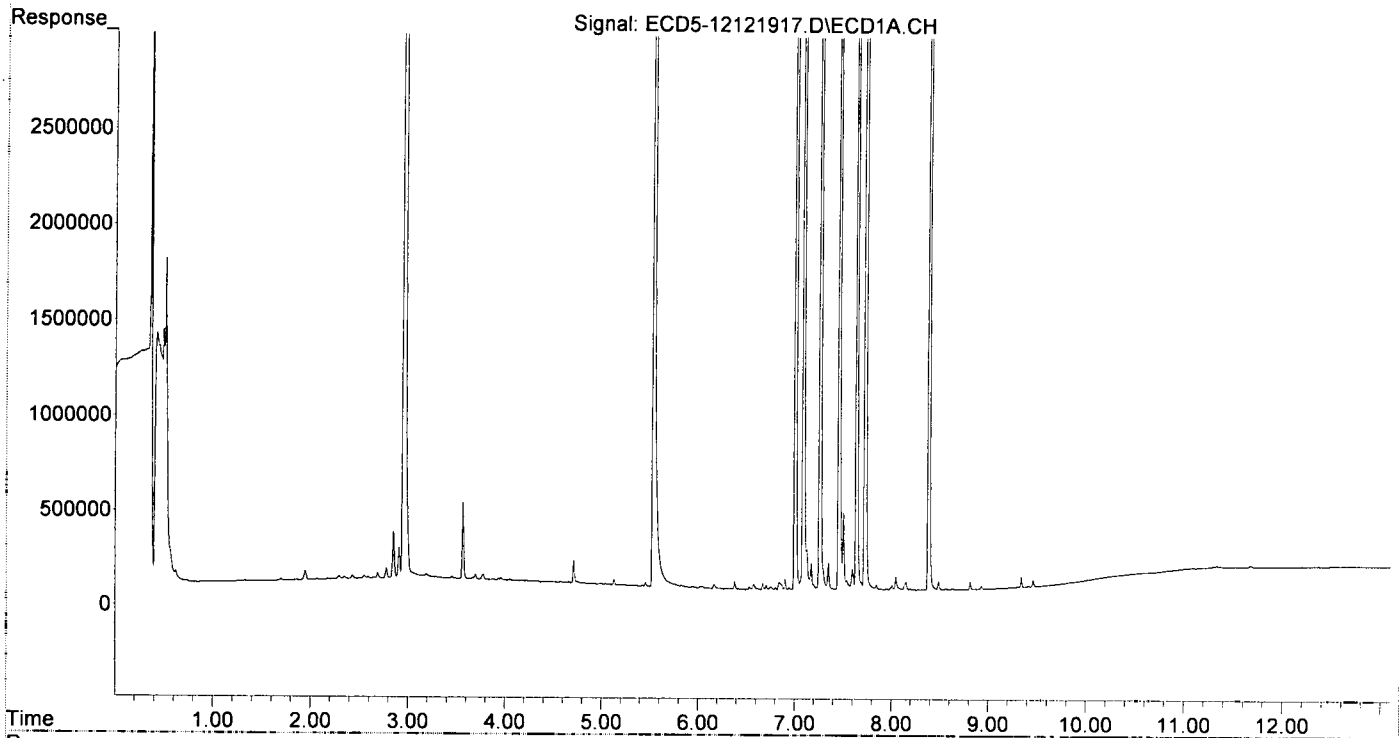
MJB  
12/12/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.130f	5.743	44792	14885	0.270	0.051 #
22) S DCBP (S)	9.340	10.245	56404	82244	0.400	0.458
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	5.944f	6.696f	12581	9877	0.062	0.028 #
4) b-BHC	6.035	0.000	14606	0	0.162	N.D. #
5) Heptachlor	6.379	7.033	41507	56606	0.229	0.185
6) d-BHC	6.166f	6.986	22889	14623	0.116	0.041 #
7) Aldrin	0.000	7.290	0	30724	N.D.	0.093 #
8) Heptachlo...	7.088	7.730	12843260	63770	69.733	0.212 #
9) trans-Chl...	7.171	7.871	142358	22348282	0.770	71.326 #
10) cis-Chlor...	7.262	7.977	19395071	74755	106.525	0.257 #
11) Endosulfa...	7.349	8.042	146556	192662	0.861	0.700
12) 4,4'-DDE	7.349	8.067f	146556	80324	0.777	0.259 #
13) Dieldrin	7.505f	8.242	406258	19132361	2.116	62.904 #
14) Endrin	7.729f	8.463	21844123	17153689	148.572	75.959 #
15) 4,4'-DDD	7.729f	8.498	21844123	35025401	139.010	136.704
16) Endosulfa...	7.848	8.587	26522	18264	0.185	0.079 #
17) 4,4'-DDT	7.953	0.000	7160	0	0.060	N.D. #
18) Endrin Al...	8.151	8.834	41292	36084	BelowCal	BelowCal
19) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.632	9.402	5237	17673576	0.031	68.684 #
23) Hexachlor...	2.956	3.453	20039273	43898460	109.661	116.772
24) Hexachlor...	5.536	6.208	20674500	38675932	117.273	123.138
25) Oxychlordane	7.006	7.663	17080226	28966104	103.807	105.753
26) 2,4'-DDE	7.088	7.871	12843260	22348282	100.134	105.348
27) trans-Non...	7.262	7.936	19395071	31103984	108.072	103.118
28) 2,4'-DDD	7.458	8.242	11576868	19132361	101.440	101.303
29) 2,4'-DDT	7.640	8.463	11208721	17153689	102.188	96.186
30) cis-Nonac...	7.729	8.498	21844123	35025401	105.214	104.413
31) Mirex	8.388	9.402	12387288	17673576	98.808	94.982
32) Chlordane...	7.262f	7.936	19395071	31103984	985.041	859.592
33) Chlordane...	7.349f	8.042	146556	192662	5.847	6.345
34) Chlordane...	7.848	8.675f	26522	19731	4.588	2.201 #
35) Chlordane...	3.452	3.453	48826	43898460	NoCal	NoCal
36) Toxaphene...	7.262f	8.242f	19395071	19132361	21654.806	7290.579 #
37) Toxaphene...	7.598	8.645f	111087	98732	68.787	30.000 #
38) Toxaphene...	0.000	8.645	0	98732	N.D.	19.480 #
39) Toxaphene...	8.151	0.000	41292	0	12.744	N.D. #
40) Toxaphene...	8.388f	8.930f	12387288	28407	5167.523	6.095 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.452	3.453	48826	43898460	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121917.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 15:59  
Operator : MJB  
Sample : 9L12029-CCV4  
Misc : A19J409, AB 100 ppb  
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 16:25:00 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121918.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 16:16  
 Operator : MJB  
 Sample : 9L12029-CCB3  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 12 16:39:32 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB  
12/12/19*

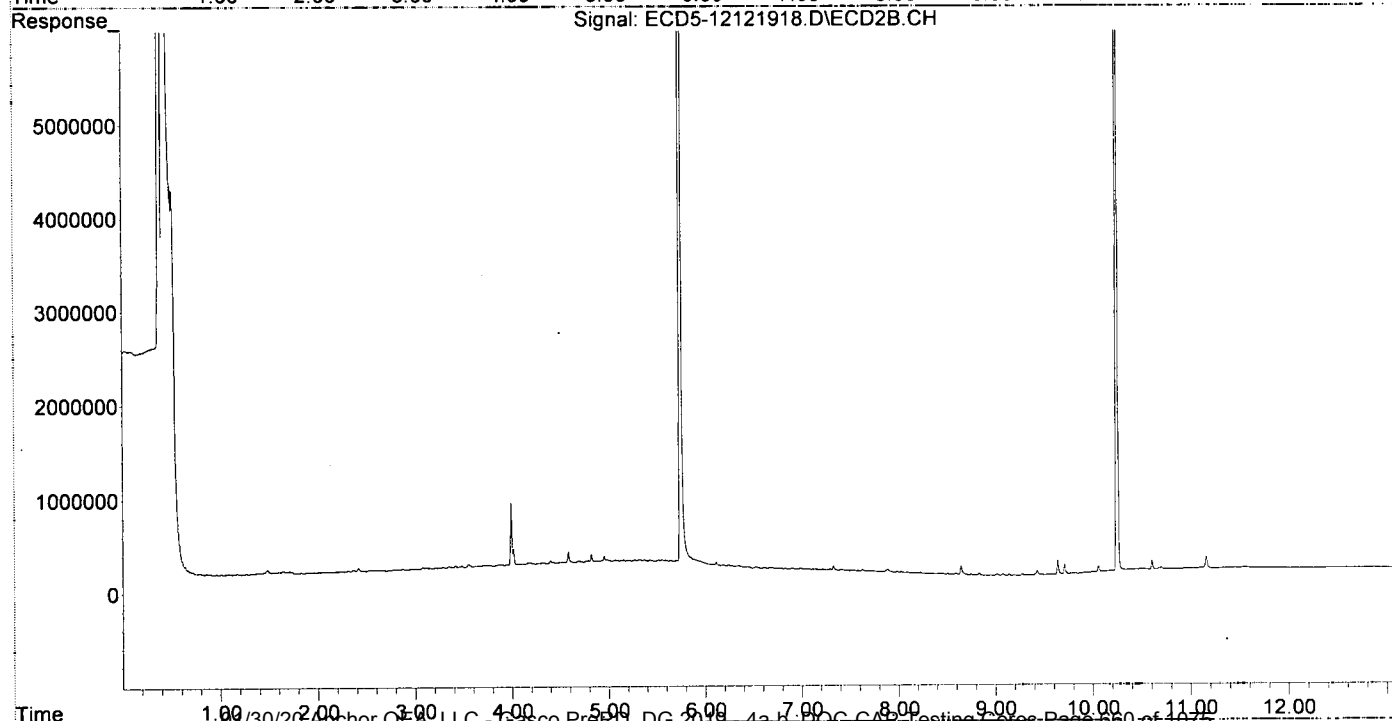
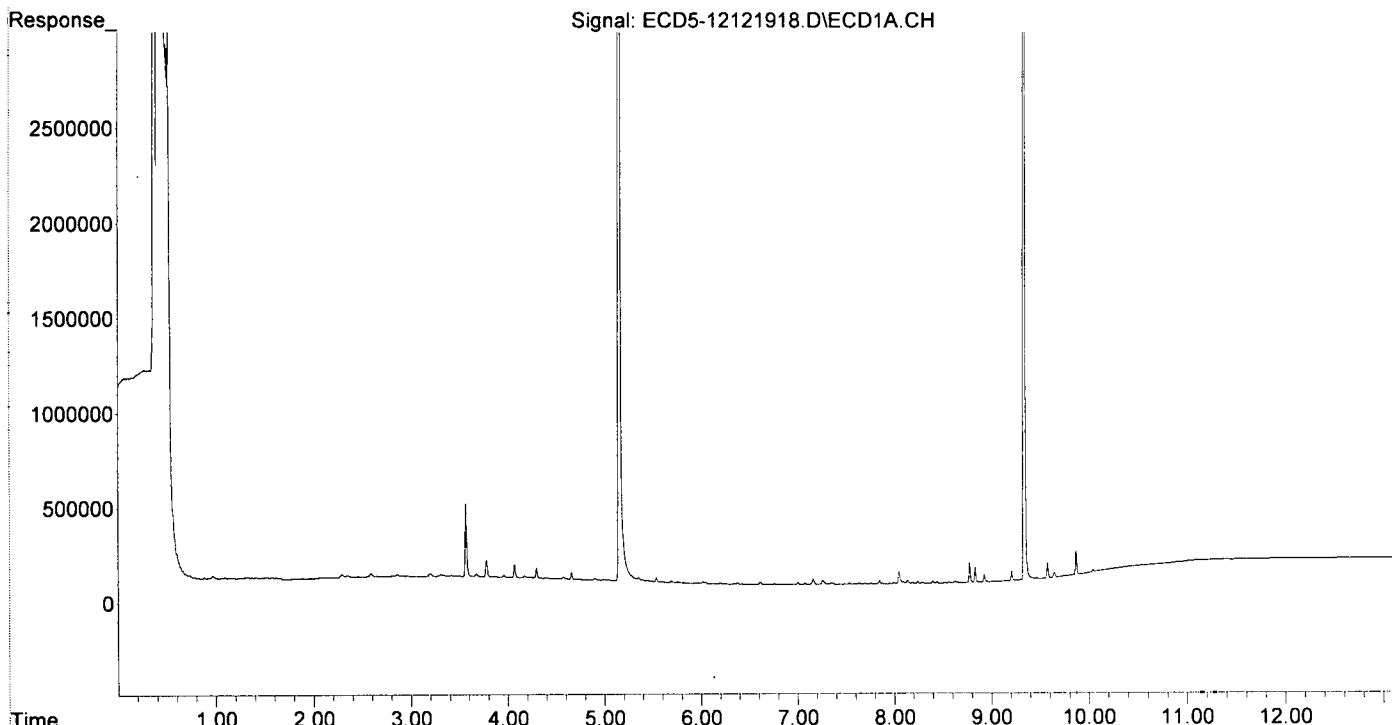
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.156	5.744	18472165	32567228	111.294	111.012
22) S DCBP (S)	9.341	10.245	14364300	20889800	101.803	116.207
Target Compounds						
2) a-BHC	5.691	6.347	8360	17393	0.036	0.042
3) g-BHC	5.970	6.664	5662	12267	0.028	0.034
4) b-BHC	6.036	0.000	9190	0	0.102	N.D. #
5) Heptachlor	6.379	7.031	7986	11945	0.044	0.039
6) d-BHC	6.196	6.984	7667	17162	0.039	0.049
7) Aldrin	6.611	7.293	10861	16128	0.055	0.049
8) Heptachlo...	7.076	7.733	7116	13337	0.039	0.044
9) trans-Chl...	7.159	7.889	30518	30385	0.165	0.097 #
10) cis-Chlor...	7.260	7.980	19619	11492	0.108	0.039 #
11) Endosulfa...	7.362	8.026	7191	10396	0.042	0.038
12) 4,4'-DDE	7.340	8.092	6586	7366	0.035	0.024
13) Dieldrin	7.534	8.226	6657	8931	0.035	0.029
14) Endrin	7.696	8.449	5749	9146	0.039	0.041
15) 4,4'-DDD	7.758	8.506	5730	7527	0.036	0.029
16) Endosulfa...	7.848	8.588	18922	14393	0.132	0.062 #
17) 4,4'-DDT	7.954	0.000	3585	0	0.030	N.D. #
18) Endrin Al...	8.138	8.834	19020	23456	BelowCal	BelowCal
19) Endosulfa...	8.439	9.024	9314	13856	0.060	0.056
20) Methoxychlor	8.294	0.000	8334	0	0.142	N.D. #
21) Endrin Ke...	8.629	9.427	8332	51468	0.050	0.200 #
23) Hexachlor...	2.922f	3.477f	11933	16176	0.065	0.043
24) Hexachlor...	5.535	0.000	22854	0	0.130	N.D. #
25) Oxychlorane	7.003	7.626f	12655	21541	0.077	0.079
26) 2,4'-DDE	7.076	7.889	7116	30385	0.055	0.143 #
27) trans-Non...	7.260	0.000	19619	0	87346.591	N.D. #
28) 2,4'-DDD	0.000	8.226	0	8931	N.D.	0.047 #
29) 2,4'-DDT	7.637	8.449	5539	9146	0.051	0.051
30) cis-Nonac...	7.758f	8.506	5730	7527	0.028	0.022
31) Mirex	8.398	9.427f	13444	51468	0.107	0.277 #
32) Chlordane...	7.260f	0.000	19619	0	0.996	N.D. #
33) Chlordane...	7.340	8.026	6586	10396	0.263	0.342
34) Chlordane...	7.878	0.000	3664	0	0.634	N.D. #
35) Chlordane...	3.415f	3.412f	15338	23486	NoCal	NoCal
36) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
37) Toxaphene...	0.000	8.645f	0	94762	N.D.	28.794 #
38) Toxaphene...	7.878f	8.645	3664	94762	1.088	18.697 #
39) Toxaphene...	8.138	0.000	19020	0	5.870	N.D. #
40) Toxaphene...	8.398f	0.000	13444	0	5.609	N.D. #
41) Toxaphene...	8.439	9.275	9314	18157	2.943	3.822
42) Toxaphene...	0.000	3.412f	0	23486	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121918.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 16:16  
Operator : MJB  
Sample : 9L12029-CCB3  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 12 16:39:32 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121925.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 18:32  
 Operator : MJB  
 Sample : 9120780-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 11:35:11 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
12/13/19

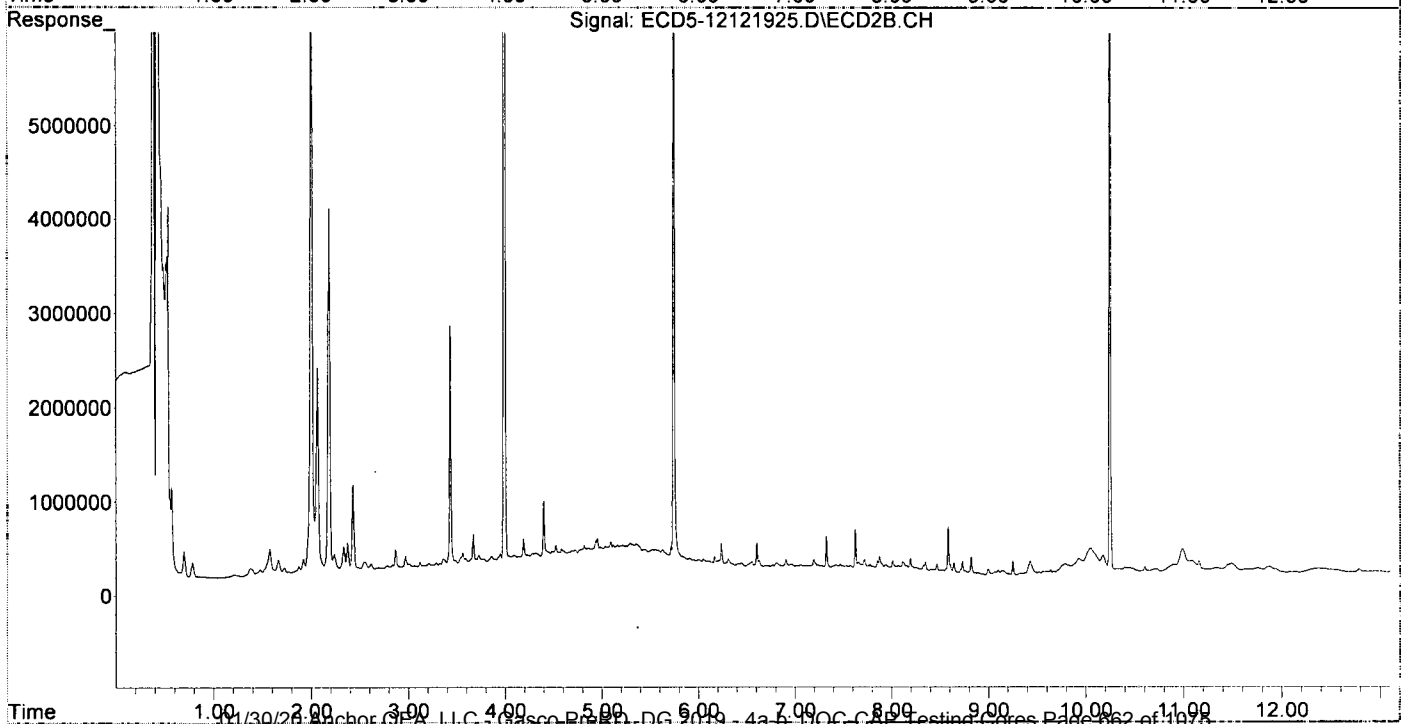
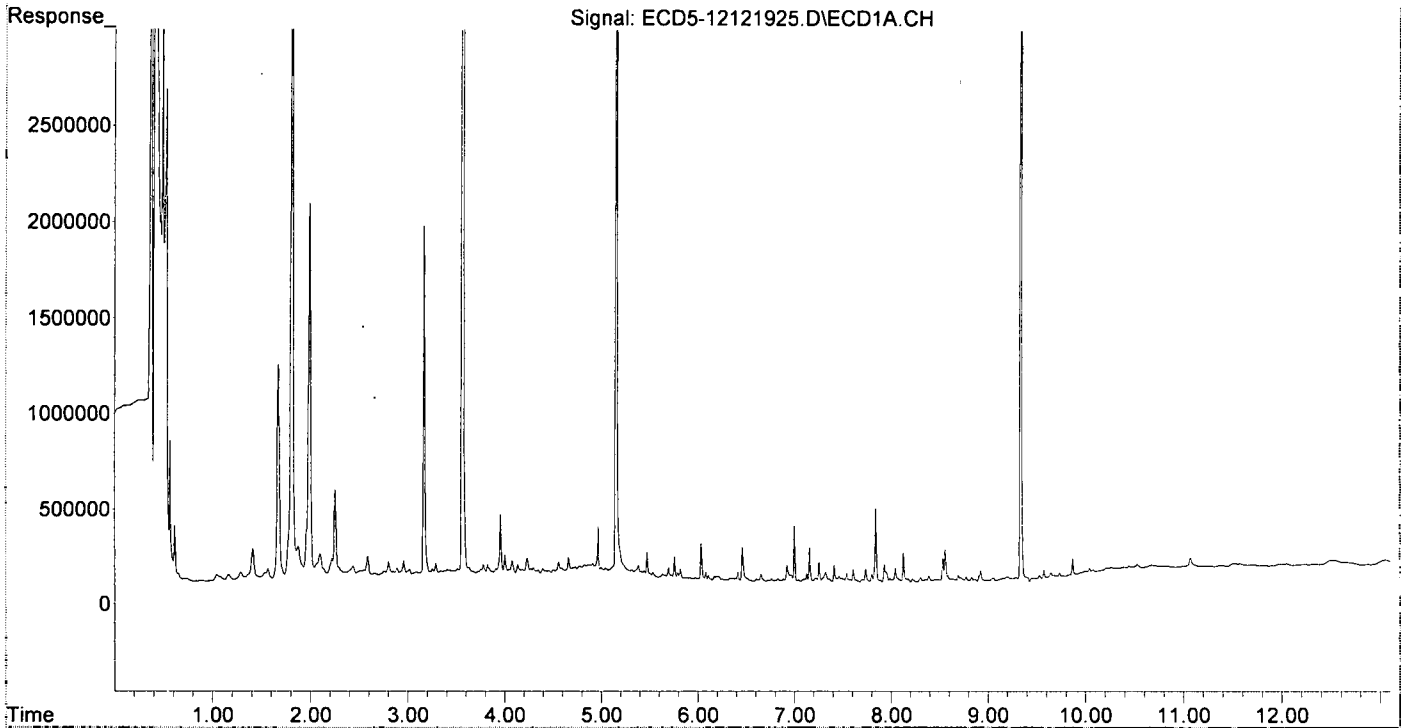
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.155	5.742	5356201	8977923	32.271	30.603
22) S DCBP (S)	9.337	10.243	7128362	9403507	50.520	52.311
Target Compounds						
2) a-BHC	5.695	0.000	78064	0	0.340	N.D. #
3) g-BHC	5.974	6.697f	19654	111136	0.097	0.312 #
4) b-BHC	6.034	6.769f	199270	113759	2.205	0.719 #
5) Heptachlor	6.357f	7.056f	20087	114230	0.111	0.373 #
6) d-BHC	6.195	7.012f	28102	107781	0.143	0.306 #
7) Aldrin	6.603	7.277	14651	108936	0.074	0.331 #
8) Heptachlo...	0.000	7.718	0	168441	N.D.	0.560 #
9) trans-Chl...	7.157	7.875	179136	209124	0.969	0.667
10) cis-Chlor...	7.254	8.011f	103418	160195	0.568	0.550
11) Endosulfa...	7.356	8.044	18335	96931	0.108	0.352 #
12) 4,4'-DDE	7.327	8.114	49741	142341	0.264m	0.458 #
13) Dieldrin	7.541	8.194f	44022	185261	0.229	0.609 #
14) Endrin	7.700	8.467	12786	118963	0.087	0.527 #
15) 4,4'-DDD	7.738f	0.000	71309	0	0.454	N.D. #
16) Endosulfa...	7.842	8.584	387127	518300	2.696	2.248
17) 4,4'-DDT	7.932f	8.730	94000	147809	0.786	0.823
18) Endrin Al...	8.128	8.821	150990	194681	0.275	0.217
19) Endosulfa...	8.460	9.060f	28865	31216	0.186	0.125
20) Methoxychlor	8.303	9.249f	28843	148296	0.492	1.651 #
21) Endrin Ke...	0.000	9.426	0	140294	N.D.	0.545 #
23) Hexachlor...	2.957	3.429f	110344	2664935	0.604	7.089 #
24) Hexachlor...	5.534	6.209	51307	165288	0.291	0.526 #
25) Oxychlorane	6.999	7.658	292802	144105	1.780	0.526 #
26) 2,4'-DDE	0.000	7.875	0	209124	N.D.	0.986 #
27) trans-Non...	7.254	7.938	103418	112698	0.261	0.374 #
28) 2,4'-DDD	7.462	0.000	30203	0	0.265	N.D. #
29) 2,4'-DDT	7.609f	8.467	67891	118963	0.619	0.667
30) cis-Nonac...	7.738	8.467f	71309	118963	0.343	0.355
31) Mirex	8.392	9.426f	43984	140294	0.351	0.754 #
32) Chlordane...	7.223	7.938	18711	112698	0.950	3.115 #
33) Chlordane...	7.324	8.044	53916	96931	2.151	3.192 #
34) Chlordane...	7.842f	8.730f	387127	147809	66.964	16.486 #
35) Chlordane...	3.465	3.429	60483	2664935	NoCal	NoCal
36) Toxaphene...	7.324f	8.292f	53916	72466	60.197	27.614 #
37) Toxaphene...	7.609	8.642f	67891	136262	42.040	41.404
38) Toxaphene...	7.889	8.642	10972	136262	3.258	26.885 #
39) Toxaphene...	8.128	8.730	150990	147809	46.600	17.702 #
40) Toxaphene...	8.356	0.000	22025	0	9.188	N.D. #
41) Toxaphene...	8.460f	9.249	28865	148296	9.121	31.219 #
42) Toxaphene...	3.465	3.429	60483	2664935	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121925.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 18:32  
Operator : MJB  
Sample : 9120780-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

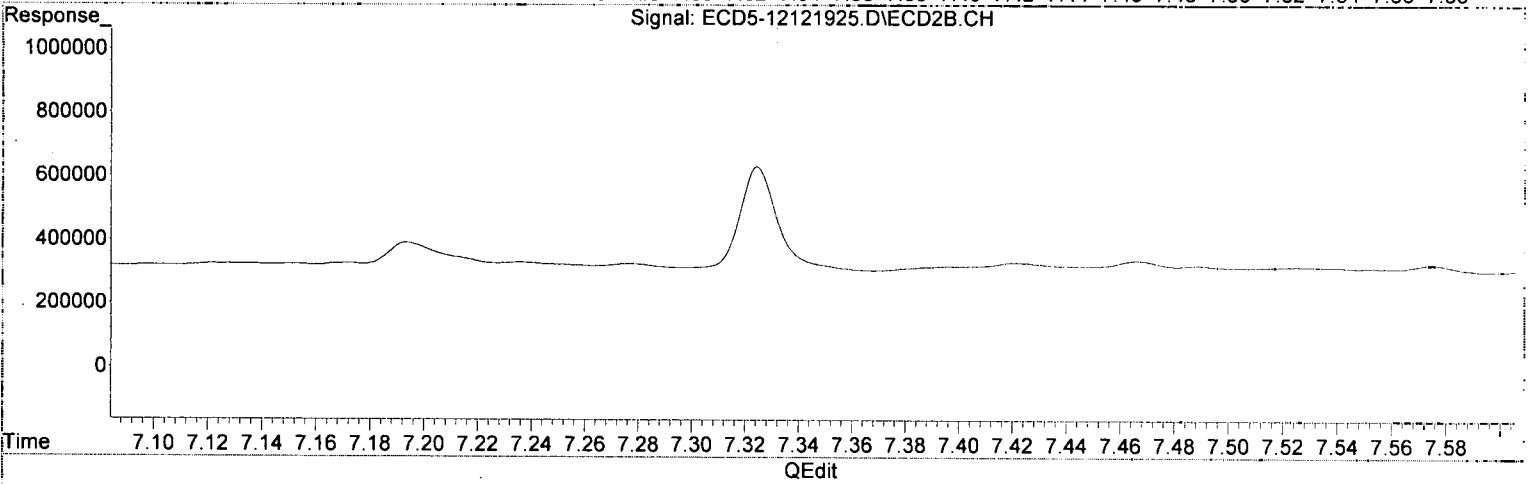
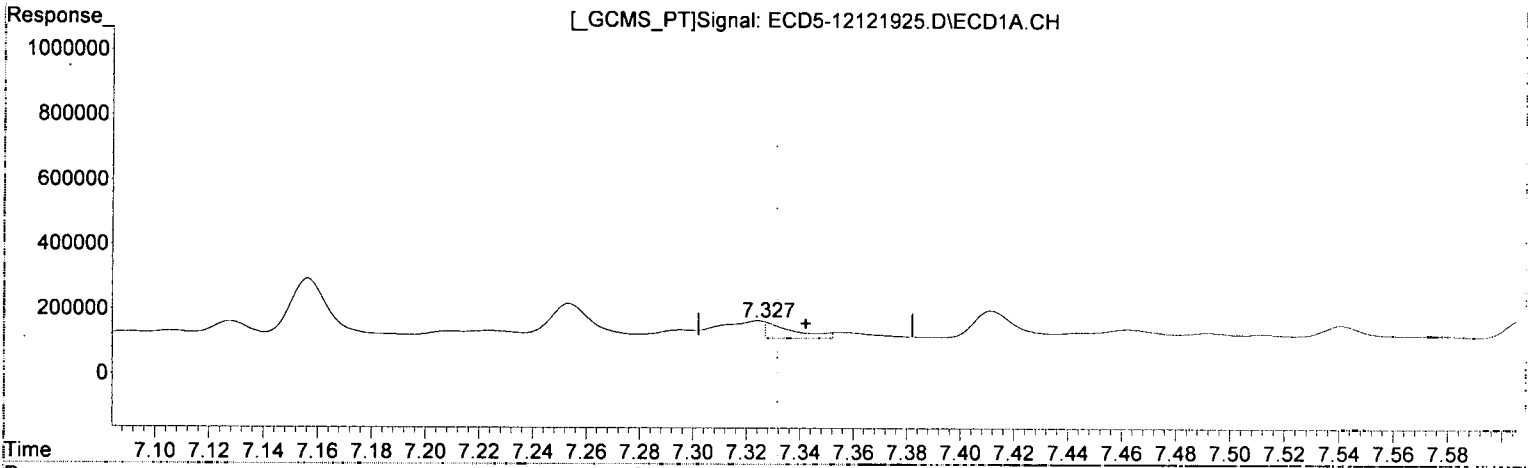
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:35:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Qedit)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121925.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 18:32  
Operator : MJB  
Sample : 9120780-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:14:01 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(12) 4,4'-DDE  
7.327min 0.264 ng/mL (m)  
response 49741

*WB 12/13/19*

(12) 4,4'-DDE #2  
8.114min 0.458 ng/mL  
response 142341

Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121925.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 18:32  
 Operator : MJB  
 Sample : 9120780-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 11:14:01 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*MJB 12/13/19*  
*MJB 12/13/19*

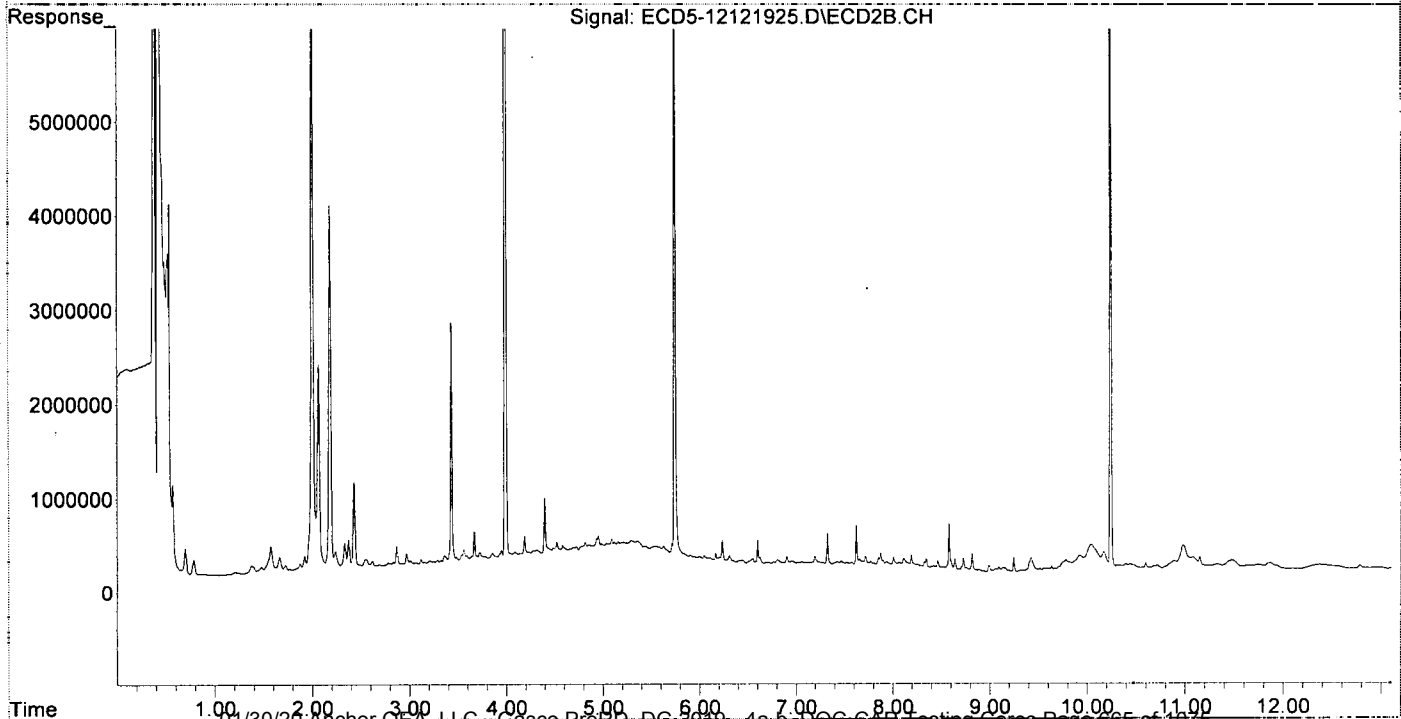
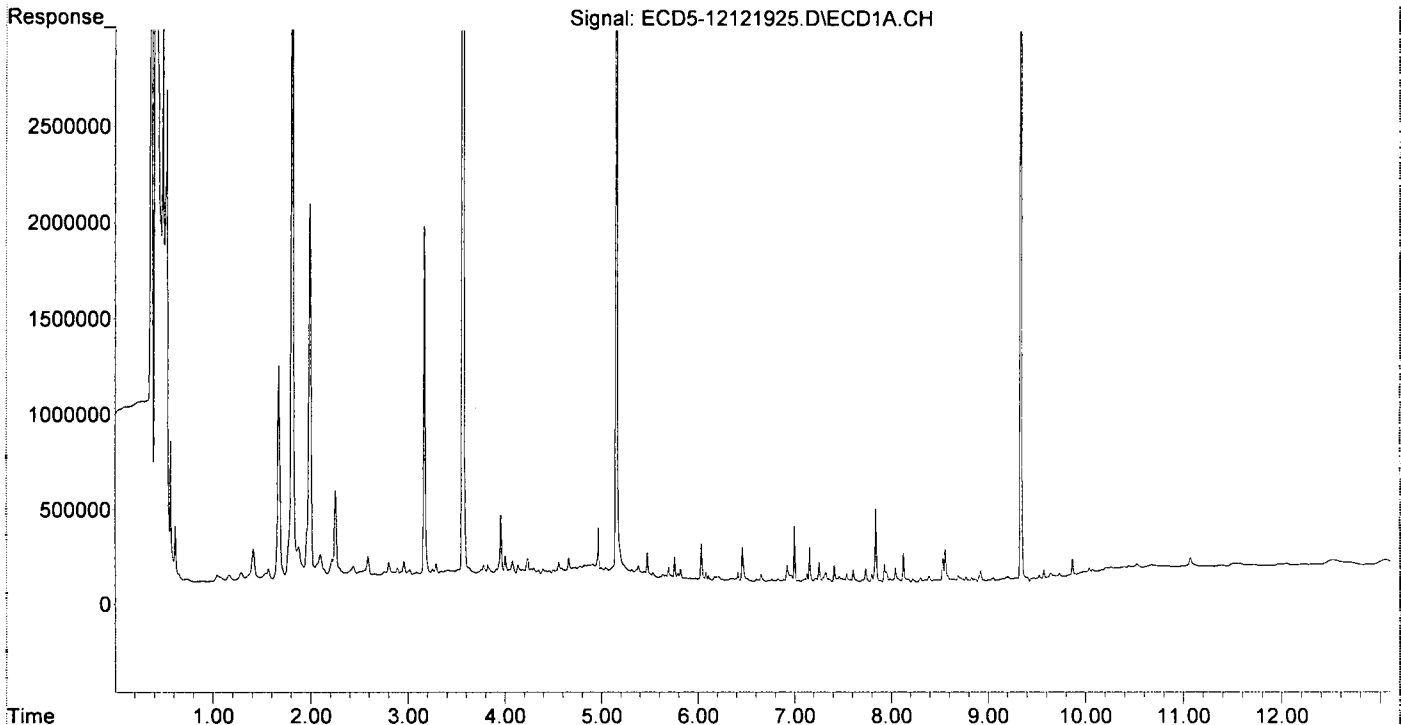
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.155	5.742	5356201	8977923	32.271	30.603
22) S DCBP (S)	9.337	10.243	7128362	9403507	50.520	52.311
Target Compounds						
2) a-BHC	5.695	0.000	78064	0	0.340	N.D. #
3) g-BHC	5.974	6.697f	19654	111136	0.097	0.312 #
4) b-BHC	6.034	6.769f	199270	113759	2.205	0.719 #
5) Heptachlor	6.357f	7.056f	20087	114230	0.111	0.373 #
6) d-BHC	6.195	7.012f	28102	107781	0.143	0.306 #
7) Aldrin	6.603	7.277	14651	108936	0.074	0.331 #
8) Heptachlo...	0.000	7.718	0	168441	N.D.	0.560 #
9) trans-Chl...	7.157	7.875	179136	209124	0.969	0.667
10) cis-Chlor...	7.254	8.011f	103418	160195	0.568	0.550
11) Endosulfa...	7.356	8.044	18335	96931	0.108	0.352 #
12) 4,4'-DDE	7.356	8.114	18335	142341	0.097	0.458 #
13) Dieldrin	7.541	8.194f	44022	185261	0.229	0.609 #
14) Endrin	7.700	8.467	12786	118963	0.087	0.527 #
15) 4,4'-DDD	7.738f	0.000	71309	0	0.454	N.D. #
16) Endosulfa...	7.842	8.584	387127	518300	2.696	2.248
17) 4,4'-DDT	7.932f	8.730	94000	147809	0.786	0.823
18) Endrin Al...	8.128	8.821	150990	194681	0.275	0.217
19) Endosulfa...	8.460	9.060f	28865	31216	0.186	0.125
20) Methoxychlor	8.303	9.249f	28843	148296	0.492	1.651 #
21) Endrin Ke...	0.000	8.426	0	140294	N.D.	0.545 #
23) Hexachlor...	2.957	3.429f	110344	2664935	0.604	7.089 #
24) Hexachlor...	5.534	6.209	51307	165288	0.291	0.526 #
25) Oxychlorane	6.999	7.658	292802	144105	1.780	0.526 #
26) 2,4'-DDE	0.000	7.875	0	209124	N.D.	0.986 #
27) trans-Non...	7.254	7.938	103418	112698	0.261	0.374 #
28) 2,4'-DDD	7.462	0.000	30203	0	0.265	N.D. #
29) 2,4'-DDT	7.609f	8.467	67891	118963	0.619	0.667
30) cis-Nonac...	7.738	8.467f	71309	118963	0.343	0.355
31) Mirex	8.392	9.426f	43984	140294	0.351	0.754 #
32) Chlordane...	7.223	7.938	18711	112698	0.950	3.115 #
33) Chlordane...	7.324	8.044	53916	96931	2.151	3.192 #
34) Chlordane...	7.842f	8.730f	387127	147809	66.964	16.486 #
35) Chlordane...	3.465	3.429	60483	2664935	NoCal	NoCal
36) Toxaphene...	7.324f	8.292f	53916	72466	60.197	27.614 #
37) Toxaphene...	7.609	8.642f	67891	136262	42.040	41.404
38) Toxaphene...	7.889	8.642	10972	136262	3.258	26.885 #
39) Toxaphene...	8.128	8.730	150990	147809	46.600	17.702 #
40) Toxaphene...	8.356	0.000	22025	0	9.188	N.D. #
41) Toxaphene...	8.460f	9.249	28865	148296	9.121	31.219 #
42) Toxaphene...	3.465	3.429	60483	2664935	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121925.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 18:32  
Operator : MJB  
Sample : 9120780-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:14:01 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121926.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 18:50  
 Operator : MJB  
 Sample : 9120780-BS1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 11:14:09 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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12/13/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.154	5.741	7017176	11986197	42.278	40.857
22) S DCBP (S)	9.338	10.243	7266975	10189727	51.503	56.684
Target Compounds						
2) a-BHC	5.694	0.000	79792	0	0.348	N.D. #
3) g-BHC	5.980	0.000	22218	0	0.110	N.D. #
4) b-BHC	6.033	6.726	198415	24546	2.195	0.155 #
5) Heptachlor	6.356f	7.052	22127	13475	0.122	0.044 #
6) d-BHC	6.191	7.011f	34115	11352	0.173	0.032 #
7) Aldrin	6.602	7.277	19435	14695	0.098	0.045 #
8) Heptachlo...	7.085	7.718	5491238	103521	29.815	0.344 #
9) trans-Chl...	7.157	7.867	207785	9276084	1.124	29.605 #
10) cis-Chlor...	7.253	7.975	109166	20614	0.600	0.071 #
11) Endosulfa...	7.336f	8.009	8998043	132909	52.874	0.483 #
12) 4,4'-DDE	7.336	8.090	8998043	15023697	47.727	48.358
13) Dieldrin	7.541	8.239	61260	8829667	0.319	29.031 #
14) Endrin	7.698	8.460	22857	9173081	0.155	40.620 #
15) 4,4'-DDD	7.754	8.503	8034177	12625354	51.127	49.277
16) Endosulfa...	7.842	8.583	413049	548195	2.876	2.377
17) 4,4'-DDT	7.951	8.727	7874272	11461410	65.860	59.916
18) Endrin Al...	8.128	8.820	153239	175458	0.294	0.112 #
19) Endosulfa...	8.461	9.058f	11164	20370	0.072	0.082
20) Methoxychlor	8.303	9.208	26518	7565	0.453	BelowCal #
21) Endrin Ke...	0.000	9.427	0	120515	N.D.	0.468 #
23) Hexachlor...	2.956	3.476f	110442	114823	0.604	0.305 #
24) Hexachlor...	5.533	6.191	49103	84233	0.279	0.268
25) Oxychlorane	6.999	7.657	302569	73980	1.839	0.270 #
26) 2,4'-DDE	7.085	7.867	5491238	9276084	42.813	43.727
27) trans-Non...	7.253	7.935	109166	50364	0.293	0.167 #
28) 2,4'-DDD	7.455	8.239	5419616	8829667	47.488	46.752
29) 2,4'-DDT	7.637	8.460	6169921	9173081	56.250	51.436
30) cis-Nonac...	7.754f	8.503	8034177	12625354	38.697	37.637
31) Mirex	8.392	9.427f	35755	120515	0.285	0.648 #
32) Chlordane...	7.223	7.935	29400	50364	1.493	1.392
33) Chlordane...	7.336	8.009f	8998043	132909	358.998	4.377 #
34) Chlordane...	7.842f	8.684	413049	15748	71.448	1.756 #
35) Chlordane...	3.465	3.426	55325	4567422	NoCal	NoCal
36) Toxaphene...	7.336f	8.239f	8998043	8829667	10046.412	3364.634 #
37) Toxaphene...	0.000	8.642f	0	112889	N.D.	34.302 #
38) Toxaphene...	7.889	8.642	22094	112889	6.561	22.274 #
39) Toxaphene...	8.128	8.727	153239	11461410	47.294	1372.651 #
40) Toxaphene...	8.355	8.888	13890	14599	5.794	3.133 #
41) Toxaphene...	8.461f	9.249	11164	152590	3.528	32.123 #
42) Toxaphene...	3.465	3.426	55325	4567422	NoCal	NoCal

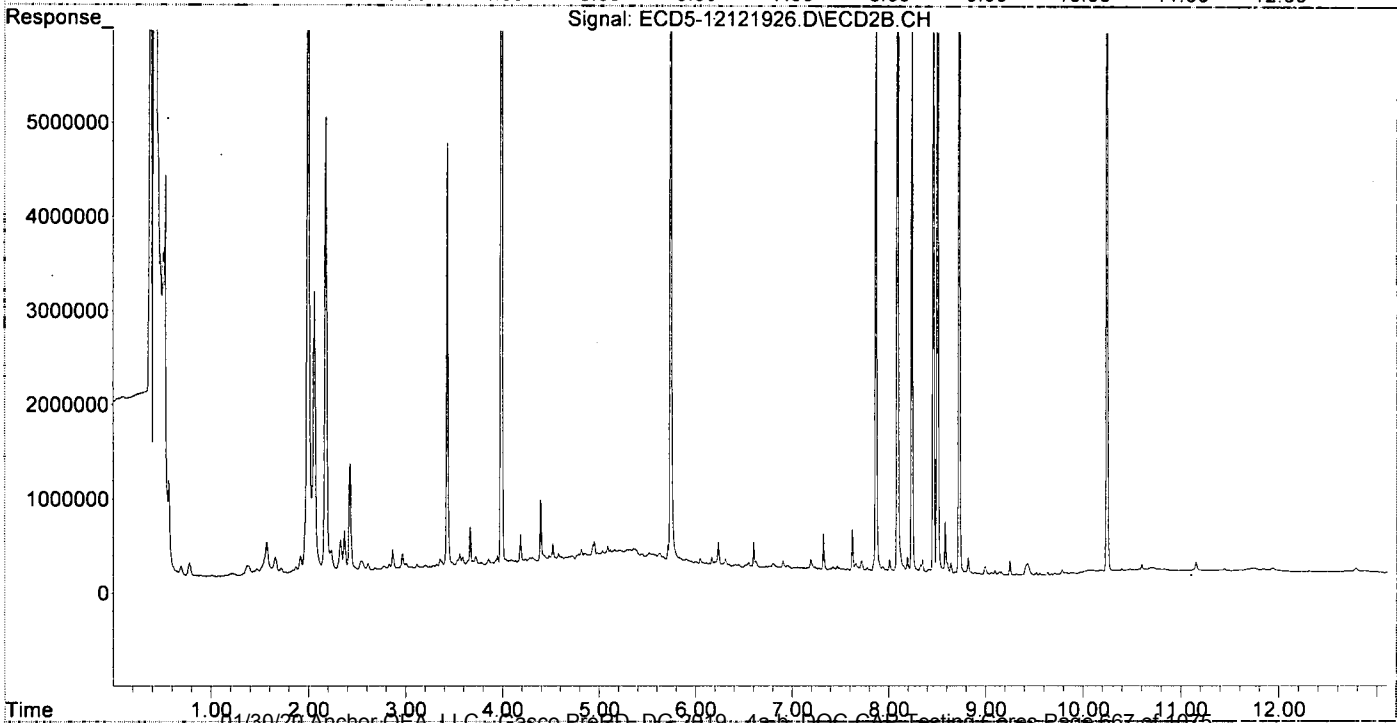
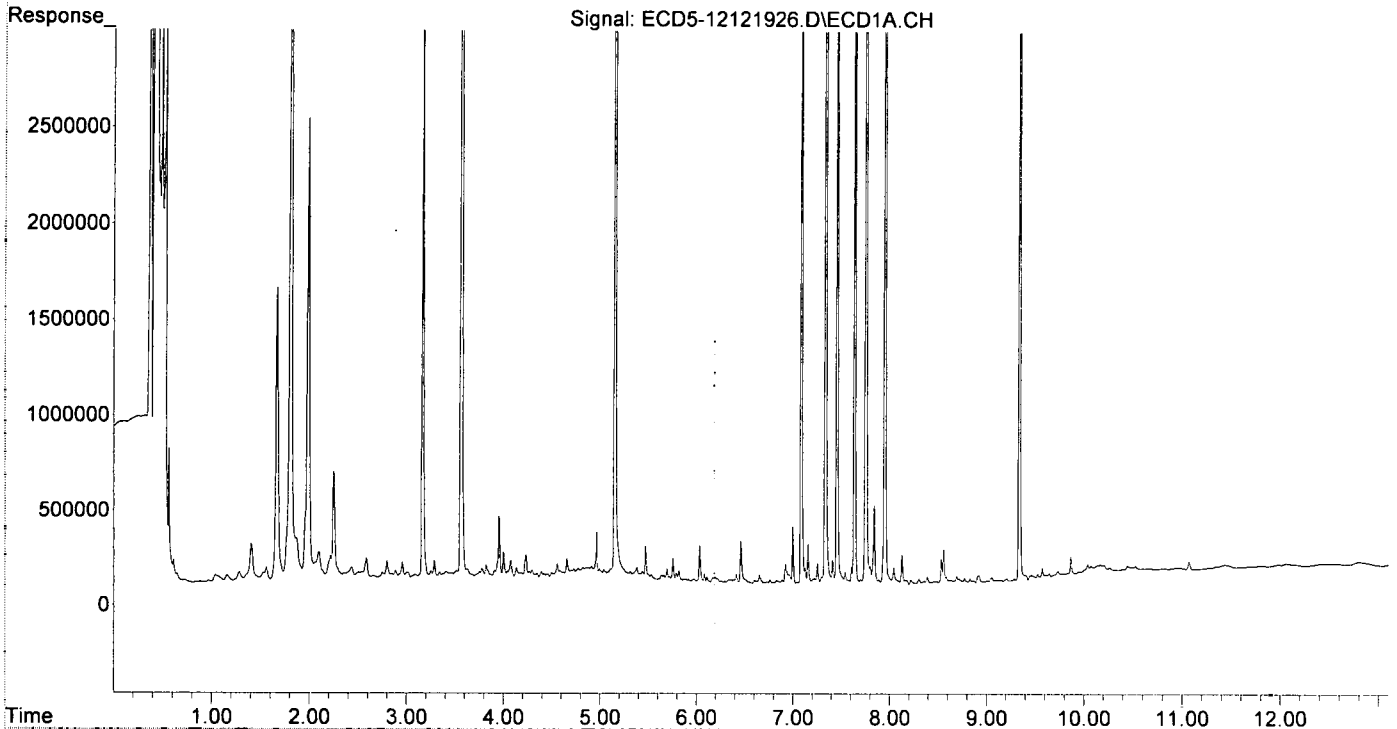
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121926.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 18:50  
Operator : MJB  
Sample : 9120780-BS1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:14:09 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121937.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 22:16  
 Operator : MJB  
 Sample : 9L12029-CCV5  
 Misc : A19K133, AB 50 ppb  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 11:14:50 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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12/13/19

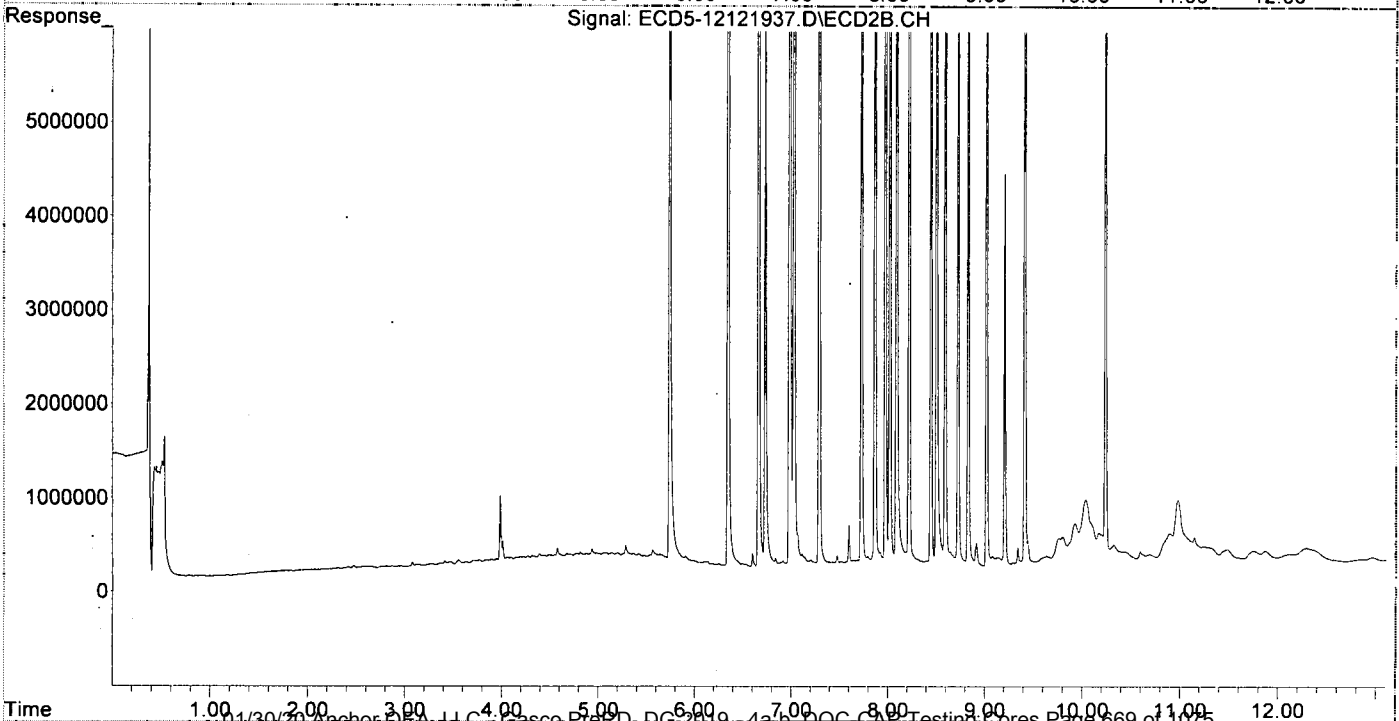
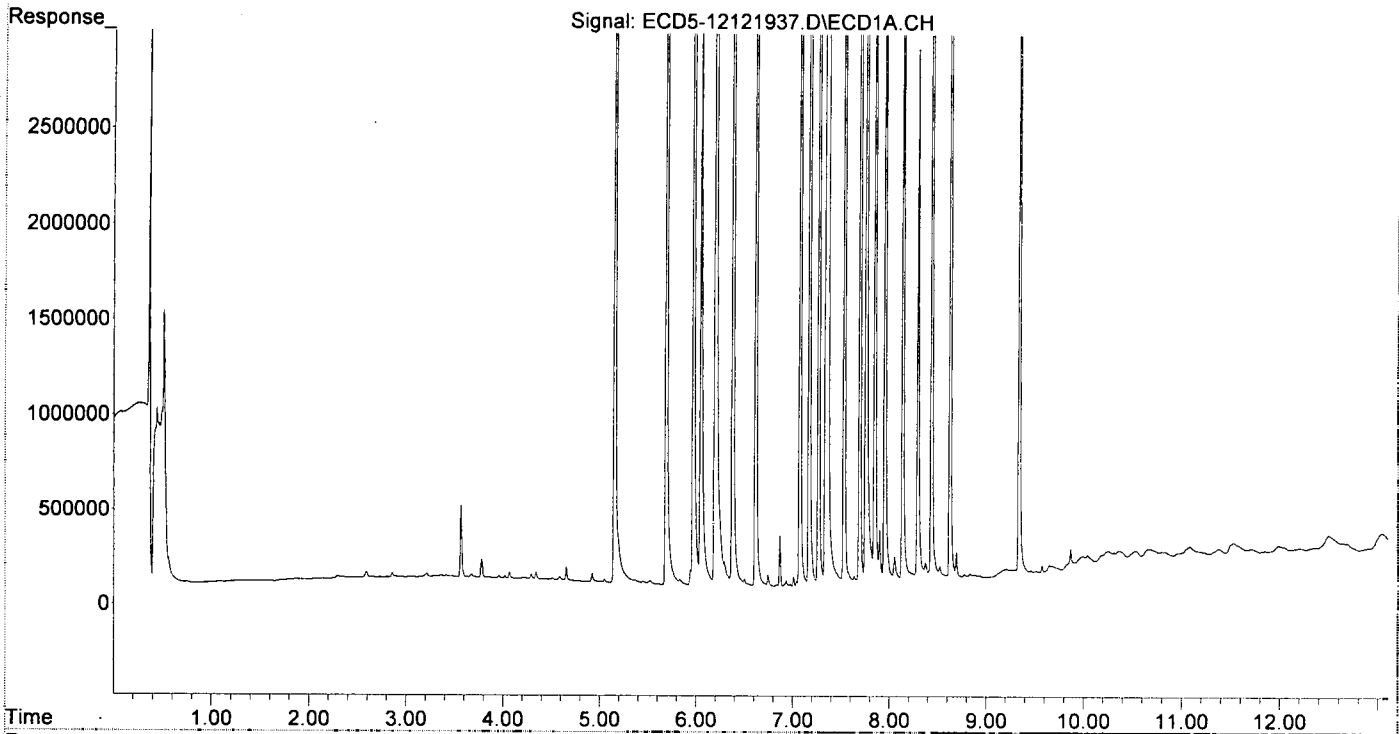
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.154	5.741	8247746	12753888	49.693	43.474
22) S DCBP (S)	9.338	10.242	6742183	9918474	47.783	55.175
Target Compounds						
2) a-BHC	5.687	6.346	12529187	20330505	54.634	49.546
3) g-BHC	5.968	6.662	10395799	17160948	51.521	48.110
4) b-BHC	6.046	6.732	3239626	6110098	35.843	38.607
5) Heptachlor	6.377	7.030	10090624	17184335	55.658	56.162
6) d-BHC	6.194	6.983	7132634	14027519	36.263	39.776
7) Aldrin	6.615	7.291	10077176	17545027	51.038	53.265
8) Heptachlo...	7.073	7.729	9572191	15245326	51.972	50.674
9) trans-Chl...	7.169	7.868	9688529	15417383	52.401	49.206
10) cis-Chlor...	7.267	7.975	9545263	14762921	52.426	50.689
11) Endosulfa...	7.359	8.023	9957736	14175473	58.513	51.514
12) 4,4'-DDE	7.339	8.091	7897646	13226063	41.891	42.572
13) Dieldrin	7.531	8.222	10365274	16234635	53.992	53.377
14) Endrin	7.693	8.447	8843232	13294663	60.147	58.871
15) 4,4'-DDD	7.756	8.504	6423094	11143818	40.875	43.494
16) Endosulfa...	7.848	8.594	8099835	12505701	56.401	54.230
17) 4,4'-DDT	7.952	8.727	6102045	8548825	51.037	45.798
18) Endrin Al...	8.137	8.831	6706586	10376563	54.559	52.651
19) Endosulfa...	8.435	9.021	7688820	12142488	49.612	48.748
20) Methoxychlor	8.293	9.207	2788866	4185248	47.612	46.946
21) Endrin Ke...	8.627	9.413	8894545	13231024	53.338	51.419
23) Hexachlor...	0.000	3.476f	0	50393	N.D.	0.134 #
24) Hexachlor...	5.524	0.000	17141	0	0.097	N.D. #
25) Oxychlor dane	7.010	7.672	47410	60152	0.288	0.220
26) 2,4'-DDE	7.073	7.868	9572191	15417383	74.631	72.676
27) trans-Non...	7.267	7.924	9545263	143834	52.993	0.477 #
28) 2,4'-DDD	0.000	8.222	0	16234635	N.D.	85.960 #
29) 2,4'-DDT	7.638	8.447	38316	13294663	0.349	74.547 #
30) cis-Nonac...	7.756f	8.504	6423094	11143818	30.937	33.221
31) Mirex	8.374	9.413	89869	13231024	0.717	71.107 #
32) Chlordane...	0.000	7.924	0	143834	N.D.	3.975 #
33) Chlordane...	7.339	8.023	7897646	14175473	315.096	466.850 #
34) Chlordane...	7.848	8.727f	8099835	8548825	1401.084	953.484
35) Chlordane...	3.414f	3.414	13166	60278	NoCal	NoCal
36) Toxaphene...	7.267f	0.000	9545263	0	10657.389	N.D. #
37) Toxaphene...	0.000	8.594f	0	12505701	N.D.	3799.941 #
38) Toxaphene...	7.901	8.647	275060	149124	81.681	29.423 #
39) Toxaphene...	8.137	8.727	6706586	8548825	2069.837	1023.832 #
40) Toxaphene...	8.374	8.916f	89869	238017	37.490	51.073
41) Toxaphene...	8.435	9.293f	7688820	30952	2429.647	6.516 #
42) Toxaphene...	0.000	3.414f	0	60278	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 22:16  
Operator : MJB  
Sample : 9L12029-CCV5  
Misc : A19K133, AB 50 ppb  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:14:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 22:33  
 Operator : MJB  
 Sample : 9L12029-CCV6  
 Misc : A19J408, 9-42 50 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 11:14:57 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*12/13/19*

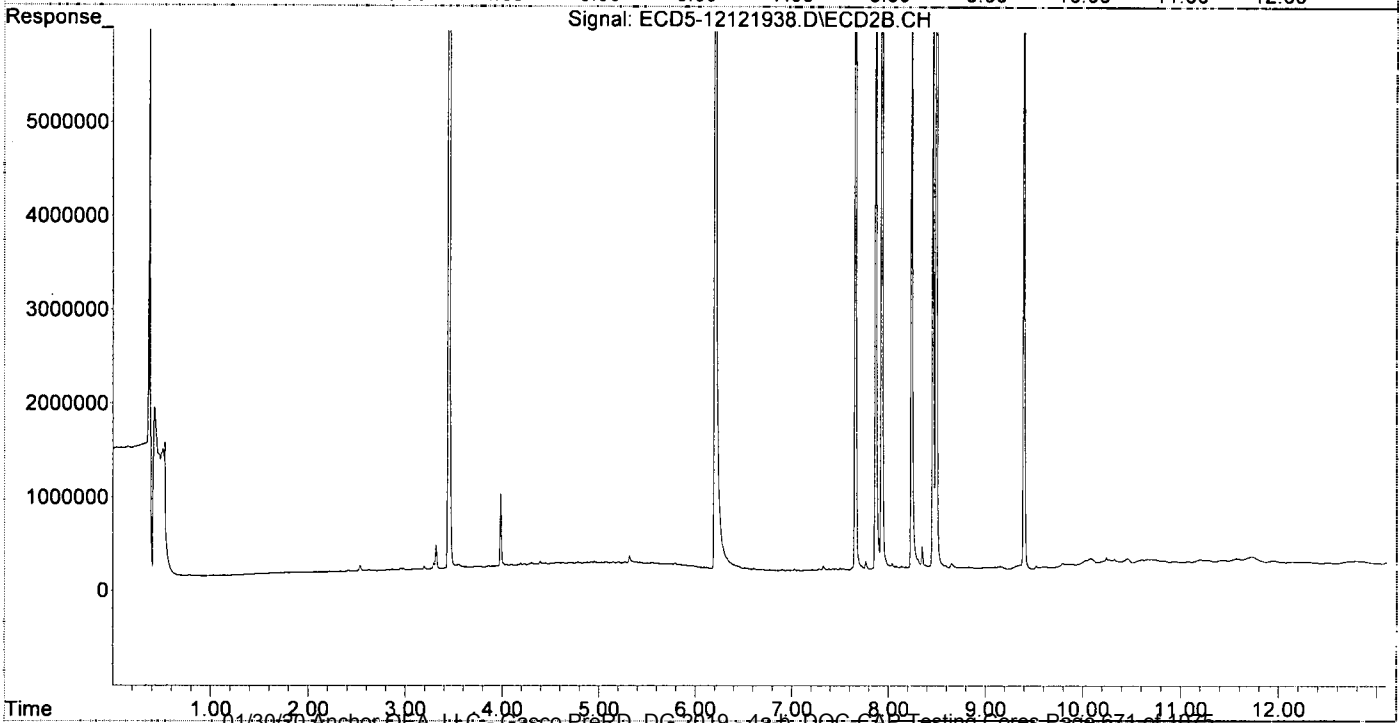
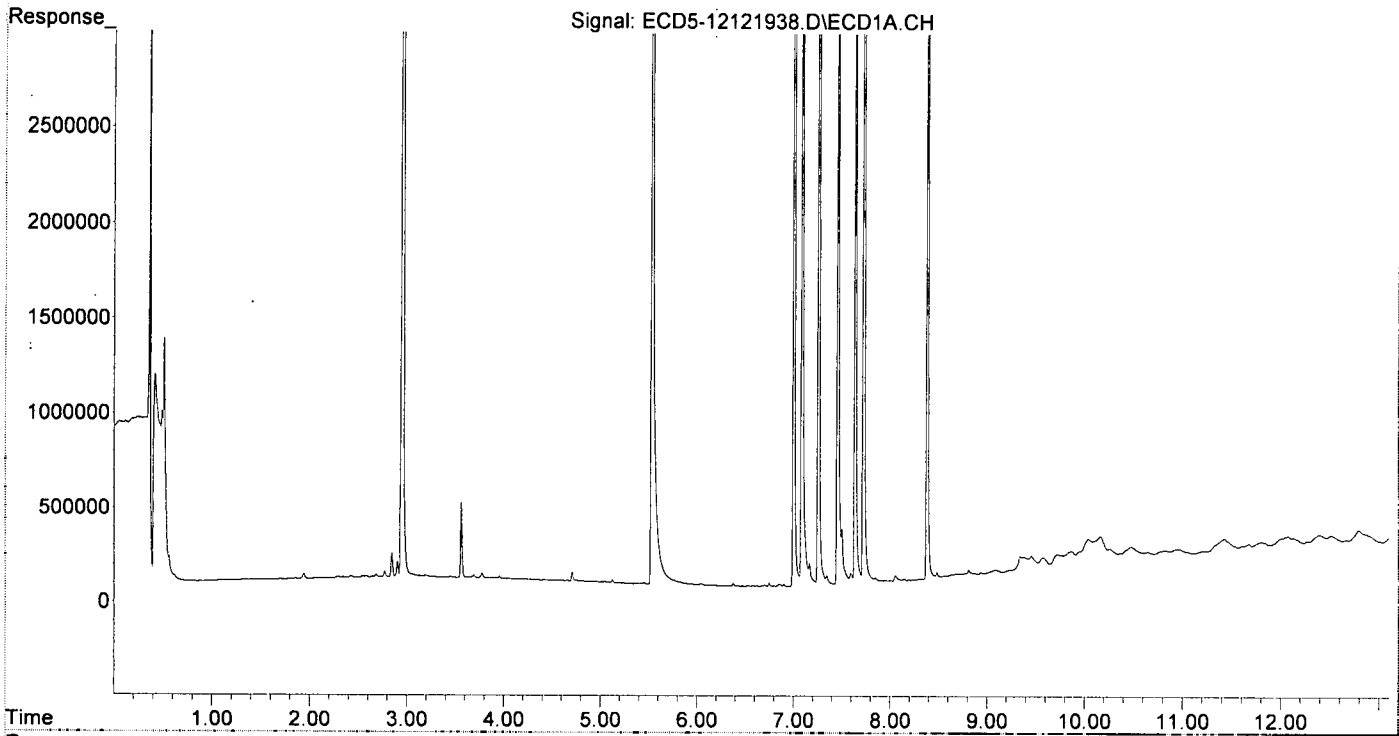
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.128f	5.753	15696	10277	0.095	0.035 #
22) S DCBP (S)	9.344	10.242	77196	72372	0.547	0.403
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	0.000	6.699f	0	8746	N.D.	0.025 #
4) b-BHC	6.043	6.699f	9793	8746	0.108	0.055 #
5) Heptachlor	6.378	7.030	15065	19248	0.083	0.063
6) d-BHC	0.000	0.000	0	0	N.D.	N.D.
7) Aldrin	6.582f	7.287	3634	17260	0.018	0.052 #
8) Heptachlo...	7.089	7.727	5097073	41461	27.675	0.138 #
9) trans-Chl...	7.167	7.869	116176	9036870	0.628	28.842 #
10) cis-Chlor...	7.260	0.000	9141958	0	50.211	N.D. #
11) Endosulfa...	7.348	8.040	49419	51058	0.290	0.186
12) 4,4'-DDE	7.348	8.079	49419	13780	0.262	0.044 #
13) Dieldrin	0.000	8.240	0	7793941	N.D.	25.625 #
14) Endrin	7.727f	8.460	10523503	7873628	71.575	34.866 #
15) 4,4'-DDD	7.727f	8.494	10523503	16556894	66.969	64.621
16) Endosulfa...	7.850	0.000	24743	0	0.172	N.D. #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.148	0.000	7930	0	BelowCal	N.D.
19) Endosulfa...	0.000	9.024	0	13550	N.D.	0.054 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	0.000	9.398f	0	8837323	N.D.	34.344 #
23) Hexachlor...	2.953	3.449	10204677	21544085	55.843	57.308
24) Hexachlor...	5.534	6.205	8365763	13682188	47.454	43.562
25) Oxychlorane	7.004	7.659	7867685	13155648	47.817	48.030
26) 2,4'-DDE	7.089	7.869	5097073	9036870	39.740 <i>Q-31</i>	42.599
27) trans-Non...	7.260	7.932	9141958	14926259	50.739	49.484
28) 2,4'-DDD	7.459	8.240	4667959	7793941	40.902	41.268
29) 2,4'-DDT	7.639	8.460	5204911	7873628	47.452	44.150
30) cis-Nonac...	7.727	8.494	10523503	16556894	50.687	49.357
31) Mirex	8.385	9.398	6008101	8837323	47.924	47.494
32) Chlordane...	7.260f	7.932	9141958	14926259	464.304	412.503
33) Chlordane...	7.348f	8.040	49419	51058	1.972	1.682
34) Chlordane...	7.850	0.000	24743	0	4.280	N.D. #
35) Chlordane...	3.449	3.449	5972	21544085	NoCal	NoCal
36) Toxaphene...	0.000	8.240f	0	7793941	N.D.	2969.960 #
37) Toxaphene...	7.596	8.652f	54260	44013	33.599	13.374 #
38) Toxaphene...	0.000	8.652	0	44013	N.D.	8.684 #
39) Toxaphene...	8.148	0.000	7930	0	2.448	N.D. #
40) Toxaphene...	8.385	0.000	6008101	0	2506.360	N.D. #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.449	3.449	5972	21544085	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 22:33  
Operator : MJB  
Sample : 9L12029-CCV6  
Misc : A19J408, 9-42 50 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:14:57 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-12\9L12029\  
 Data File : ECD5-12121939.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 12 Dec 2019 22:50  
 Operator : MJB  
 Sample : 9L12029-CCB4  
 Misc : A19L018  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Dec 13 11:15:04 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

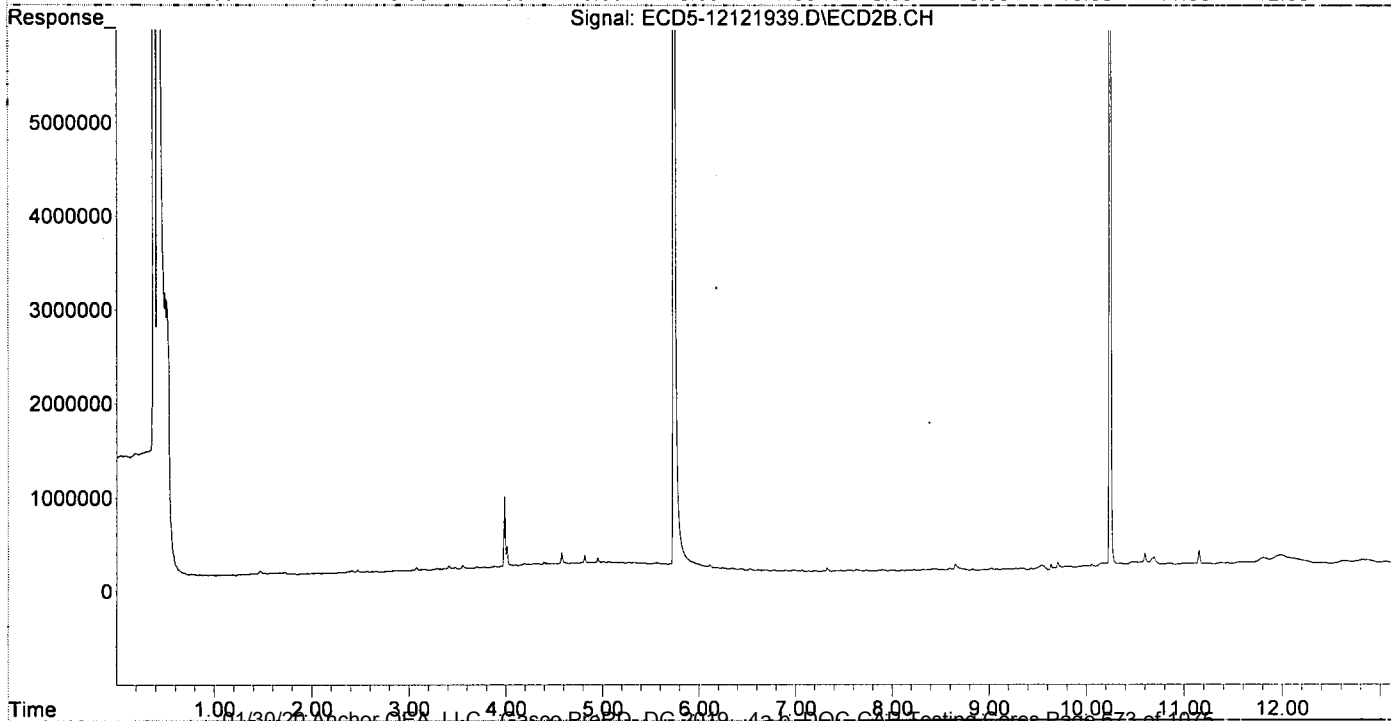
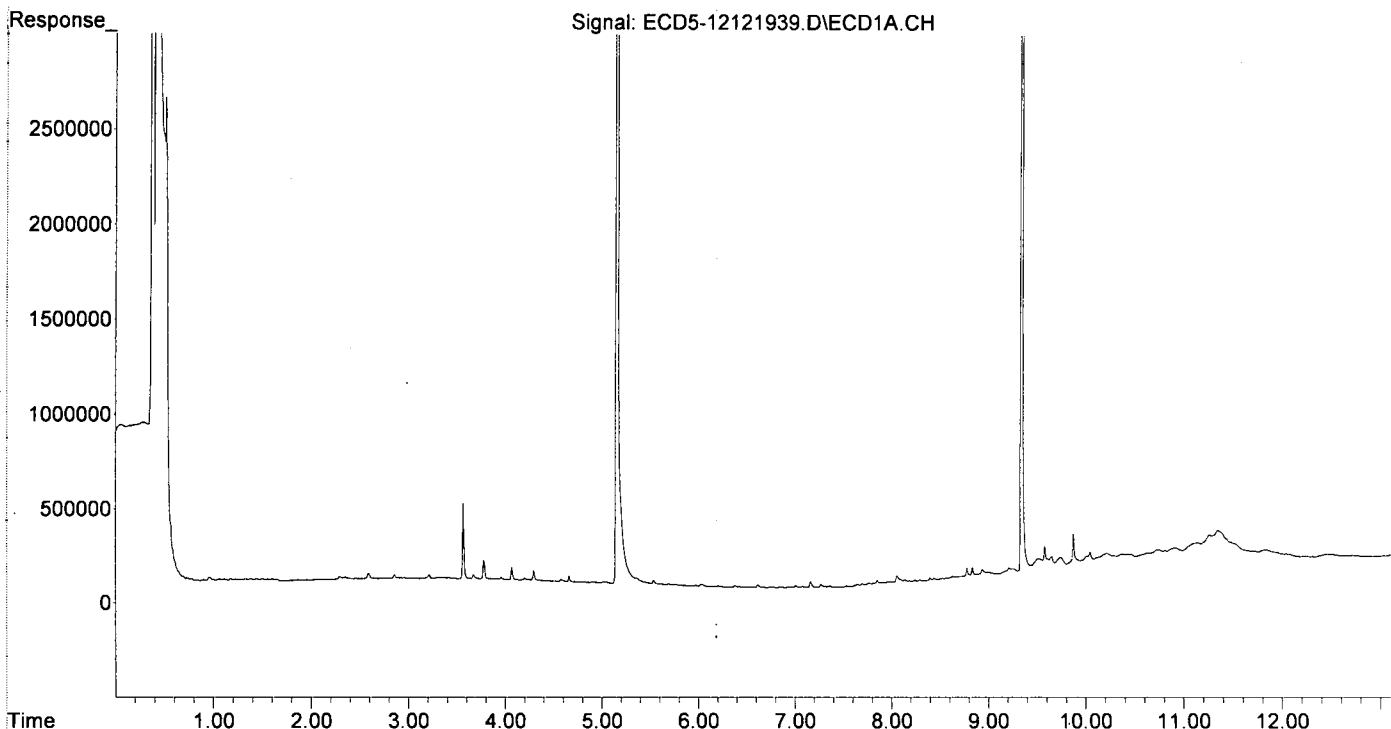
*MJB*  
*12/13/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	5.154	5.740	17780456	30173883	107.127	102.854
22) S DCBP (S)	9.340	10.243	15171098	21235719	107.521	118.132
<b>Target Compounds</b>						
2) a-BHC	5.687	6.345	18207	39904	0.079	0.097
3) g-BHC	5.969	6.664	10255	19029	0.051	0.053
4) b-BHC	6.042	6.773f	12842	13643	0.142	0.086
5) Heptachlor	6.378	7.029	6870	11547	0.038	0.038
6) d-BHC	6.203	6.986	5568	14697	0.028	0.042 #
7) Aldrin	6.614	7.291	14353	14372	0.073	0.044
8) Heptachlo...	7.076	7.730	6314	14753	0.034	0.049 #
9) trans-Chl...	7.161	7.870	29952	13752	0.162	0.044 #
10) cis-Chlor...	7.268	7.977	16497	9890	0.091	0.034 #
11) Endosulfa...	7.361	8.024	7490	9071	0.044	0.033
12) 4,4'-DDE	7.361	8.094	7490	7866	0.040	0.025
13) Dieldrin	7.534	8.223	5878	13220	0.031	0.043 #
14) Endrin	7.696	8.448	9708	20250	0.066	0.090
15) 4,4'-DDD	7.766	8.508	9765	14694	0.062	0.057
16) Endosulfa...	7.851	8.592	22584	25172	0.157	0.109
17) 4,4'-DDT	7.957	8.742	8874	17501	0.074	0.064
18) Endrin Al...	8.139	8.832	15776	16788	BelowCal	BelowCal
19) Endosulfa...	8.439	9.022	12355	24599	0.080	0.099
20) Methoxychlor	8.291	9.206	7097	16359	0.121	0.017 #
21) Endrin Ke...	8.629	9.431	15251	22549	0.091	0.088
23) Hexachlor...	2.918f	3.474f	50554	50338	0.277	0.134 #
24) Hexachlor...	5.533	0.000	37152	0	0.211	N.D. #
25) Oxychlorthane	7.008	7.628f	9559	21741	0.058	0.079
26) 2,4'-DDE	7.076	7.870	6314	13752	0.049	0.065
27) trans-Non...	7.268	7.899f	16497	16371	87346.608	0.054 #
28) 2,4'-DDD	0.000	8.223	0	13220	N.D.	0.070 #
29) 2,4'-DDT	7.646	8.448	8483	20250	0.077	0.114 #
30) cis-Nonac...	7.696f	8.508	9708	14694	0.047	0.044
31) Mirex	8.398	9.431f	14281	22549	0.114	0.121
32) Chlordane...	0.000	7.899f	0	16371	N.D.	0.452 #
33) Chlordane...	0.000	8.024	0	9071	N.D.	0.299 #
34) Chlordane...	7.851	0.000	22584	0	3.907	N.D. #
35) Chlordane...	3.414f	3.411f	51254	70173	NoCal	NoCal
36) Toxaphene...	7.268f	0.000	16497	0	18.419	N.D. #
37) Toxaphene...	0.000	8.592f	0	25172	N.D.	7.649 #
38) Toxaphene...	7.878f	8.651	10400	70037	3.088	13.819 #
39) Toxaphene...	8.139	8.742f	15776	17501	4.869	2.096 #
40) Toxaphene...	8.398f	0.000	14281	0	5.957	N.D. #
41) Toxaphene...	8.439	9.273	12355	27020	3.904	5.688 #
42) Toxaphene...	0.000	3.411f	0	70173	N.D.	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-12\9L12029\  
Data File : ECD5-12121939.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 12 Dec 2019 22:50  
Operator : MJB  
Sample : 9L12029-CCB4  
Misc : A19L018  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Dec 13 11:15:04 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823RTA.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



**Organochloride Pesticides by EPA 8081B  
Calibration Data**

Sequence 9H23034 (Cal ID A9H2608) DualECD5





# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9H23034**  
Date: **08/23/19 11:23**

Instrument: **DUALECD5**  
Calibration: **A9H2608**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD.ID	STD.ID
1	9H23034-BKD1	Water	QC	QC				A19G138
2	9H23034-BKD2	Water	QC	QC				A19G138
3	9H23034-ICB1	Water	QC	QC				A19H348
4	9H23034-CAL1	Water	QC	QC				A19E245
5	9H23034-CAL2	Water	QC	QC				A19E246
6	9H23034-CAL3	Water	QC	QC				A19E247
7	9H23034-CAL4	Water	QC	QC				A19E249
8	9H23034-CAL5	Water	QC	QC				A19E250
9	9H23034-CAL6	Water	QC	QC				A19H383
10	9H23034-CAL7	Water	QC	QC				A19H384
11	9H23034-CAL8	Water	QC	QC				A19E244
12	9H23034-IBL1	Water	QC	QC				
13	9H23034-ICV1	Water	QC	QC				A19E106
14	9H23034-CAL9	Water	QC	QC				A19E272
15	9H23034-CALA	Water	QC	QC				A19E273
16	9H23034-CALB	Water	QC	QC				A19E274
17	9H23034-CALC	Water	QC	QC				A19E275
18	9H23034-CALD	Water	QC	QC				A19E276
19	9H23034-CALE	Water	QC	QC				A19E154
20	9H23034-CALF	Water	QC	QC				A19E155
21	9H23034-CALG	Water	QC	QC				A19E271
22	9H23034-IBL2	Water	QC	QC				
23	9H23034-ICV2	Water	QC	QC				A19E043
24	9H23034-CALH	Water	QC	QC				A19F232
25	9H23034-CALI	Water	QC	QC				A19F233
26	9H23034-CALJ	Water	QC	QC				A19F234
27	9H23034-CALK	Water	QC	QC				A19F235
28	9H23034-CALL	Water	QC	QC				A19F236
29	9H23034-CALM	Water	QC	QC				A19F231
30	9H23034-IBL3	Water	QC	QC				
31	9H23034-ICV3	Water	QC	QC				A19E108
32	9H23034-CALN	Water	QC	QC				A19D122
33	9H23034-CALO	Water	QC	QC				A19D123
34	9H23034-CALP	Water	QC	QC				A19D124
35	9H23034-CALQ	Water	QC	QC				A19D125
36	9H23034-CALR	Water	QC	QC				A19D126
37	9H23034-CALS	Water	QC	QC				A19D121
38	9H23034-IBL4	Water	QC	QC				
39	9H23034-ICV4	Water	QC	QC				A19D127

Data Entered By: MJB 8/26/19

Comments: ICAL

Data Reviewed By: MVA 8/30/19

Calibration Status Report DUALECD5

Method Path : R:\methods\  
 Method File : ECD5\_QUANTPEST\_190823.M  
 Title : Instrument: DualECD5  
 Last Update : Mon Aug 26 11:48:23 2019  
 Response Via : Initial Calibration

*A9H2608*

*MJB  
8/26/19*

#	ID	Conc	ISTD Conc	Path\File
1	1	50	0	R:\data\2019-08\9H23034\ECD5-08231936.D
2	2	100	0	R:\data\2019-08\9H23034\ECD5-08231937.D
3	3	200	0	R:\data\2019-08\9H23034\ECD5-08231938.D
4	4	500	0	R:\data\2019-08\9H23034\ECD5-08231939.D
5	5	1000	0	R:\data\2019-08\9H23034\ECD5-08231940.D
6	6	2000	0	R:\data\2019-08\9H23034\ECD5-08231941.D
7	7	-1	0	R:\data\2019-08\9H23034\ECD5-08231924.D
8	8	-1	0	R:\data\2019-08\9H23034\ECD5-08231925.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Aug 26 11:47 2019	Aug 26 11:37 2019	23 Aug 2019 21:54
2	2	Aug 26 11:47 2019	Aug 26 11:38 2019	23 Aug 2019 22:11
3	3	Aug 26 11:48 2019	Aug 26 11:39 2019	23 Aug 2019 22:28
4	4	Aug 26 11:48 2019	Aug 26 11:36 2019	23 Aug 2019 22:45
5	5	Aug 26 11:48 2019	Aug 26 11:40 2019	23 Aug 2019 23:03
6	6	Aug 26 11:48 2019	Aug 26 11:40 2019	23 Aug 2019 23:20
7	7	Aug 26 11:46 2019	Aug 26 11:26 2019	23 Aug 2019 18:27
8	8	Aug 26 11:46 2019	Aug 26 11:27 2019	23 Aug 2019 18:45

ECD5\_QUANTPEST\_190823.M Mon Aug 26 16:04:23 2019

Response Factor Report DUALECD5

Method Path : C:\msdchem\4\methods\  
 Method File : ECD5\_QUANTPEST\_190823.M  
 Title : Instrument: DualECD5  
 Last Update : Mon Aug 26 11:48:23 2019  
 Response Via : Initial Calibration

Calibration Files

1 =ECD5-08231936.D 2 =ECD5-08231937.D 3 =ECD5-08231938.D 4 =ECD5-08231939.D 5 =ECD5-08231940.D  
 6 =ECD5-08231941.D 7 =ECD5-08231924.D 8 =ECD5-08231925.D

Compound	1	2	3	4	5	6	7	8	Avg	%RSD
1) S TCMX (S)	1.767	1.750	1.668	1.644	1.606	1.614	1.585	1.642	1.660	E5 4.00
2) a-BHC	2.320	2.292	2.296	2.347	2.221	2.274	2.236	2.360	2.293	E5 2.14
3) g-BHC	2.074	2.030	2.041	2.035	1.950	1.957	1.960	2.094	2.018	E5 2.76
4) b-BHC	1.043	0.971	0.914	0.911	0.824	0.820	0.836	0.912	0.904	E5 8.59
5) Heptachlor	1.921	1.848	1.798	1.820	1.726	1.747	1.755	1.889	1.813	E5 3.86
6) d-BHC	1.998	1.935	2.008	2.006	1.867	1.922	1.948	2.051	1.967	E5 3.02
7) Aldrin	2.055	1.998	2.025	2.011	1.938	1.866	1.911	1.992	1.974	E5 3.23
8) Heptachlor Exp...	2.005	1.960	1.847	1.865	1.738	1.774	1.732	1.813	1.842	E5 5.42
9) trans-Chlordane	1.972	1.911	1.853	1.848	1.761	1.792	1.773	1.881	1.849	E5 3.93
10) cis-Chlordane	2.098	1.950	1.818	1.843	1.698	1.725	1.674	1.760	1.821	E5 7.86
11) Endosulfan I	1.852	1.787	1.723	1.709	1.645	1.597	1.609	1.693	1.702	E5 5.13
12) 4,4'-DDE	1.934	1.943	1.907	1.891	1.828	1.835	1.805	1.938	1.885	E5 2.92
13) Dieldrin	1.977	1.979	1.944	1.955	1.833	1.877	1.832	1.961	1.920	E5 3.25
14) Endrin	1.564	1.493	1.478	1.476	1.404	1.396	1.381	1.571	1.470	E5 4.98
15) 4,4'-DDD	1.650	1.573	1.581	1.566	1.491	1.545	1.544	1.622	1.571	E5 3.11
16) Endosulfan II	1.581	1.496	1.419	1.448	1.349	1.368	1.354	1.474	1.436	E5 5.61
17) 4,4'-DDT	1.139	1.091	1.106	1.147	1.170	1.241	1.218	1.454	1.196	E5 9.72
18) Endrin Aldehyde	2.413	1.641	1.367	1.375	1.248	1.245	1.236	1.331	1.482	E5 26.87
19) Endosulfan Sul...	1.761	1.611	1.538	1.554	1.458	1.484	1.437	1.556	1.550	E5 6.64
20) Methoxychlor	5.966	5.573	5.408	5.617	5.561	5.721	5.877	7.136	5.857	E4 9.33
21) Endrin Ketone	1.776	1.656	1.623	1.664	1.604	1.638	1.625	1.755	1.668	E5 3.80
22) S DCBP (S)	1.639	1.550	1.402	1.335	1.337	1.336	1.341	1.349	1.411	E5 8.33
23) Hexachlorobuta...	1.982	1.879	1.918	1.838	1.746	1.752	1.795	1.708	1.827	E5 5.17
24) Hexachlorobenzene	1.947	1.810	1.708	1.712	1.674	1.782	1.767	1.704	1.763	E5 4.96
25) Oxychlordane	1.768	1.697	1.639	1.592	1.553	1.677	1.636	1.602	1.645	E5 4.13
26) 2,4'-DDE	1.379	1.326	1.266	1.245	1.224	1.302	1.277	1.241	1.283	E5 4.01
27) trans-Nonachlor	2.368	2.076	1.866	1.818	1.756	1.916	1.835	1.751	1.923	E5 10.78
28) 2,4'-DDD	1.202	1.165	1.122	1.104	1.098	1.184	1.159	1.096	1.141	E5 3.65
29) 2,4'-DDT	1.071	1.021	1.074	1.052	1.092	1.137	1.177	1.151	1.097	E5 4.88
30) cis-Nonachlor	2.192	2.117	2.052	2.032	1.997	2.123	2.093	2.002	2.076	E5 3.25
31) Mirex	1.474	1.334	1.257	1.196	1.164	1.244	1.196	1.164	1.254	E5 8.39
32) Chlordane (1)	2.018	1.979	1.925	1.926	1.964	2.002			1.969	E4 1.96
33) Chlordane (2)	2.573	2.520	2.453	2.435	2.508	2.549			2.506	E4 2.14
34) Chlordane (3)	5.762	5.482	5.508	5.843	5.988	6.104			5.781	E3 4.34
35) Chlordane - AVE									0.000	-1.00
36) Toxaphene (1)	9.850	9.158	8.802	8.837	8.719	8.373			8.956	E2 5.64
37) Toxaphene (2)	1.766	1.661	1.588	1.639	1.556	1.479			1.615	E3 6.08
38) Toxaphene (3)	3.388	3.328	3.222	3.355	3.496	3.416			3.367	E3 2.72
39) Toxaphene (4)	3.286	3.203	3.162	3.299	3.287	3.204			3.240	E3 1.78
40) Toxaphene (5)	2.294	2.290	2.272	2.443	2.546	2.537			2.397	E3 5.33
41) Toxaphene (6)	3.063	3.026	2.990	3.247	3.407	3.255			3.165	E3 5.17
42) Toxaphene - AVE									0.000	-1.00

*MJB*  
*8/26/19*

Method Path : C:\msdchem\4\methods\  
 Method File : ECD5\_QUANTPEST\_190823.M  
 Title : Instrument: DualECD5

## Signal #2 Calibration Files

1 =ECD5-08231936.D 2 =ECD5-08231937.D 3 =ECD5-08231938.D  
 4 =ECD5-08231939.D 5 =ECD5-08231940.D 6 =ECD5-08231941.D

Compound	1	2	3	4	5	6	Avg	%RSD			
44) S TCMX (S) #2	3.001	3.004	2.876	2.866	2.829	2.839	2.926	3.129	2.934	E5	3.54
45) a-BHC #2	3.931	3.923	3.971	4.096	3.964	4.053	4.170	4.719	4.103	E5	6.41
46) g-BHC #2	3.523	3.455	3.485	3.477	3.403	3.476	3.679	4.038	3.567	E5	5.79
47) b-BHC #2	1.763	1.676	1.577	1.581	1.471	1.503	1.463	1.628	1.583	E5	6.60
48) Heptachlor #2	3.098	2.934	3.016	3.006	2.913	2.919	3.028	3.564	3.060	E5	6.98
49) d-BHC #2	3.491	3.346	3.435	3.614	3.299	3.462	3.518	4.049	3.527	E5	6.60
50) Aldrin #2	3.175	3.177	3.202	3.341	3.151	3.253	3.391	3.661	3.294	E5	5.19
51) Heptachlor Exp...	3.101	3.031	2.912	2.959	2.826	2.968	3.005	3.267	3.008	E5	4.40
52) trans-Chlordan...	3.641	3.222	3.004	3.003	2.863	2.936	3.074	3.322	3.133	E5	8.10
53) cis-Chlordane #2	2.994	2.898	2.870	2.860	2.774	2.800	2.904	3.199	2.912	E5	4.59
54) Endosulfan I #2	2.789	2.702	2.654	2.724	2.629	2.742	2.721	3.052	2.752	E5	4.77
55) 4,4'-DDE #2	2.985	2.990	2.976	3.050	3.000	3.111	3.250	3.492	3.107	E5	5.82
56) Dieldrin #2	2.967	2.919	2.925	2.899	2.934	3.087	3.100	3.502	3.042	E5	6.61
57) Endrin #2	2.229	2.124	2.186	2.244	2.130	2.203	2.310	2.639	2.258	E5	7.32
58) 4,4'-DDD #2	2.515	2.441	2.417	2.425	2.459	2.632	2.630	2.978	2.562	E5	7.37
59) Endosulfan II #2	2.322	2.311	2.193	2.244	2.179	2.307	2.302	2.592	2.306	E5	5.55
60) 4,4'-DDT #2	1.797	1.709	1.747	1.841	1.792	1.857	1.979	2.410	1.892	E5	11.88
61) Endrin Aldehyd...	3.486	2.388	2.092	2.125	1.939	2.042	2.050	2.254	2.297	E5	21.77
62) Endosulfan Sul...	2.658	2.494	2.352	2.425	2.392	2.430	2.448	2.730	2.491	E5	5.35
63) Methoxychlor #2	0.952	0.890	0.828	0.883	0.867	0.869	0.944	1.186	0.927	E5	12.09
64) Endrin Ketone #2	2.558	2.466	2.410	2.497	2.357	2.591	2.664	3.043	2.573	E5	8.31
65) S DCBP (S) #2	1.916	1.950	1.742	1.679	1.665	1.746	1.778	1.905	1.798	E5	6.18
66) Hexachlorobuta...	3.832	3.773	3.755	3.702	3.557	3.727	3.930	3.799	3.759	E5	2.87
67) Hexachlorobenz...	3.280	3.164	2.971	2.936	2.967	3.219	3.277	3.313	3.141	E5	5.04
68) Oxychlordane #2	2.791	2.705	2.651	2.539	2.481	2.835	2.973	2.937	2.739	E5	6.49
69) 2,4'-DDE #2	2.192	2.059	2.059	2.018	2.000	2.201	2.216	2.225	2.121	E5	4.52
70) trans-Nonachlo...	3.062	2.939	2.935	2.844	2.837	3.162	3.198	3.154	3.016	E5	4.84
71) 2,4'-DDD #2	1.920	1.868	1.797	1.779	1.756	1.985	2.012	1.992	1.889	E5	5.47
72) 2,4'-DDT #2	1.733	1.661	1.746	1.703	1.762	1.762	1.900	2.000	1.783	E5	6.24
73) cis-Nonachlor #2	3.327	3.124	3.174	3.148	3.288	3.544	3.607	3.623	3.354	E5	6.23
74) Mirex #2	2.098	1.941	1.791	1.723	1.655	1.820	1.936	1.921	1.861	E5	7.59
75) Chlordane (1) #2	3.509	3.378	3.376	3.566	3.797	4.085			3.618	E4	7.62
76) Chlordane (2) #2	2.945	2.906	2.942	2.962	3.149	3.314			3.036	E4	5.30
77) Chlordane (3) #2	8.780	8.745	8.659	8.543	9.359	9.709			8.966	E3	5.14
78) Chlordane - AV...									0.000		-1.00
79) Toxaphene (1) #2	2.737	2.675	2.545	2.618	2.655	2.515			2.624	E3	3.16
80) Toxaphene (2) #2	3.294	3.241	3.227	3.295	3.384	3.305			3.291	E3	1.70
81) Toxaphene (3) #2	5.097	4.944	4.978	4.950	5.168	5.273			5.068	E3	2.65
82) Toxaphene (4) #2	8.327	8.119	7.902	8.505	8.650	8.595			8.350	E3	3.51
83) Toxaphene (5) #2	4.664	4.522	4.477	4.681	4.900	4.718			4.660	E3	3.24
84) Toxaphene (6) #2	4.618	4.525	4.526	4.740	5.047	5.045			4.750	E3	5.10
85) Toxaphene - AV...									0.000		-1.00

MJB  
6/26/19

(#) = Out of Range

Compound List Report DUALECD5

Method Path : R:\methods\  
 Method File : ECD5\_QUANTPEST\_190823.M  
 Title : Instrument: DualECD5  
 Last Update : Mon Aug 26 11:48:23 2019  
 Response Via : Initial Calibration

Total Cpnds : 85

PK#	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S TCMX (S)	5.394	1.000	A	H	R
2	a-BHC	5.934	1.000	A	H	R
3	g-BHC	6.218	1.000	A	H	R
4	b-BHC	6.296	1.000	A	H	R
5	Heptachlor	6.632	1.000	A	H	R
6	d-BHC	6.446	1.000	A	H	R
7	Aldrin	6.873	1.000	A	H	R
8	Heptachlor Expoxide	7.332	1.000	A	H	R
9	trans-Chlordane	7.428	1.000	A	H	R
10	cis-Chlordane	7.524	1.000	A	H	R
11	Endosulfan I	7.621	1.000	A	H	R
12	4,4'-DDE	7.583	1.000	A	H	R
13	Dieldrin	7.792	1.000	A	H	R
14	Endrin	7.957	1.000	A	H	R
15	4,4'-DDD	8.003	1.000	A	H	R
16	Endosulfan II	8.114	1.000	A	H	R
17	4,4'-DDT	8.202	1.000	A	H	R
18	Endrin Aldehyde	8.403	1.000	Q	H	R
19	Endosulfan Sulfate	8.705	1.000	A	H	R
20	Methoxychlor	8.540	1.000	A	H	R
21	Endrin Ketone	8.899	1.000	A	H	R
22	S DCBP (S)	9.592	1.000	A	H	R
23	Hexachlorobutadiene	3.198	1.000	A	H	R
24	Hexachlorobenzene	5.774	1.000	A	H	R
25	Oxychlordane	7.261	1.000	A	H	R
26	2,4'-DDE	7.333	1.000	A	H	R
27	trans-Nonachlor	7.515	1.000	Q	H	R
28	2,4'-DDD	7.705	1.000	A	H	R
29	2,4'-DDT	7.887	1.000	A	H	R
30	cis-Nonachlor	7.985	1.000	A	H	R
31	Mirex	8.652	1.000	A	H	R
32	Chlordane (1)	7.427	1.000	A	H	R
33	Chlordane (2)	7.520	1.000	A	H	R
34	Chlordane (3)	8.067	1.000	A	H	R
35	Chlordane - AVE	3.447	1.000	A	H	R
36	Toxaphene (1)	7.502	1.000	A	H	R
37	Toxaphene (2)	7.794	1.000	A	H	R
38	Toxaphene (3)	8.105	1.000	A	H	R
39	Toxaphene (4)	8.346	1.000	A	H	R
40	Toxaphene (5)	8.574	1.000	A	H	R
41	Toxaphene (6)	8.640	1.000	A	H	R
42	Toxaphene - AVE	3.450	1.000	A	H	R
43	Signal #2	3.544	1.000	A	H	R
44	S TCMX (S) #2	5.988	1.000	A	H	R
45	a-BHC #2	6.595	1.000	A	H	R
46	g-BHC #2	6.914	1.000	A	H	R
47	b-BHC #2	6.978	1.000	A	H	R
48	Heptachlor #2	7.290	1.000	A	H	R
49	d-BHC #2	7.231	1.000	A	H	R
50	Aldrin #2	7.555	1.000	A	H	R
51	Heptachlor Expoxide #2	7.992	1.000	A	H	R
52	trans-Chlordane #2	8.131	1.000	A	H	R
53	cis-Chlordane #2	8.238	1.000	A	H	R
54	Endosulfan I #2	8.289	1.000	A	H	R
55	4,4'-DDE #2	8.343	1.000	A	H	R
56	Dieldrin #2	8.489	1.000	A	H	R

*MJB*  
*8/26/19*

57	Endrin #2	8.715	1.000	A	H	R
58	4,4'-DDD #2	8.758	1.000	A	H	R
59	Endosulfan II #2	8.863	1.000	A	H	R
60	4,4'-DDT #2	8.984	1.000	Q	H	R
61	Endrin Aldehyde #2	9.099	1.000	Q	H	R
62	Endosulfan Sulfate #2	9.289	1.000	A	H	R
63	Methoxychlor #2	9.463	1.000	Q	H	R
64	Endrin Ketone #2	9.687	1.000	A	H	R
65	S DCBP (S) #2	10.541	1.000	A	H	R
66	Hexachlorobutadiene #2	3.688	1.000	A	H	R
67	Hexachlorobenzene #2	6.454	1.000	A	H	R
68	Oxychlorane #2	7.920	1.000	A	H	R
69	2,4'-DDE #2	8.122	1.000	A	H	R
70	trans-Nonachlor #2	8.194	1.000	A	H	R
71	2,4'-DDD #2	8.495	1.000	A	H	R
72	2,4'-DDT #2	8.718	1.000	A	H	R
73	cis-Nonachlor #2	8.758	1.000	A	H	R
74	Mirex #2	9.679	1.000	A	H	R
75	Chlordane (1) #2	8.129	1.000	A	H	R
76	Chlordane (2) #2	8.236	1.000	A	H	R
77	Chlordane (3) #2	8.896	1.000	A	H	R
78	Chlordane - AVE #2	3.428	1.000	A	H	R
79	Toxaphene (1) #2	8.466	1.000	A	H	R
80	Toxaphene (2) #2	8.812	1.000	A	H	R
81	Toxaphene (3) #2	8.848	1.000	A	H	R
82	Toxaphene (4) #2	8.915	1.000	A	H	R
83	Toxaphene (5) #2	9.091	1.000	A	H	R
84	Toxaphene (6) #2	9.470	1.000	A	H	R
85	Toxaphene - AVE #2	3.434	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

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ECD5\_QUANTPEST\_190823.M Mon Aug 26 16:04:34 2019

Calibration Report DUALECD5

Method Path : R:\methods\  
 Method File : ECD5\_QUANTPEST\_190823.M  
 Title : Instrument: DualECD5  
 Last Update : Mon Aug 26 11:48:23 2019  
 Response Via : Initial Calibration

Calibration Files

1 =ECD5-08231936 2 =ECD5-08231937 3 =ECD5-08231938 4 =ECD5-08231939 5 =ECD5-08231940  
 6 =ECD5-08231941 7 =ECD5-08231924 8 =ECD5-08231925

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	1.6598 e5	-----	0.0400
2)	a-BHC	Avg	-----	2.2933 e5	-----	0.0214
3)	g-BHC	Avg	-----	2.0178 e5	-----	0.0276
4)	b-BHC	Avg	-----	9.0384 e4	-----	0.0859
5)	Heptachlor	Avg	-----	1.8130 e5	-----	0.0386
6)	d-BHC	Avg	-----	1.9669 e5	-----	0.0302
7)	Aldrin	Avg	-----	1.9745 e5	-----	0.0323
8)	Heptachlor Expoxide	Avg	-----	1.8418 e5	-----	0.0542
9)	trans-Chlordane	Avg	-----	1.8489 e5	-----	0.0393
10)	cis-Chlordane	Avg	-----	1.8207 e5	-----	0.0786
11)	Endosulfan I	Avg	-----	1.7018 e5	-----	0.0513
12)	4,4'-DDE	Avg	-----	1.8853 e5	-----	0.0292
13)	Dieldrin	Avg	-----	1.9198 e5	-----	0.0325
14)	Endrin	Avg	-----	1.4703 e5	-----	0.0498
15)	4,4'-DDD	Avg	-----	1.5714 e5	-----	0.0311
16)	Endosulfan II	Avg	-----	1.4361 e5	-----	0.0561
17)	4,4'-DDT	Avg	-----	1.1956 e5	-----	0.0972
18)	Endrin Aldehyde	Quad	1.1904 e5	1.1635 e5	8.0472 e1	0.9966
19)	Endosulfan Sulfate	Avg	-----	1.5498 e5	-----	0.0664
20)	Methoxychlor	Avg	-----	5.8574 e4	-----	0.0933
21)	Endrin Ketone	Avg	-----	1.6676 e5	-----	0.0380
22) S	DCBP (S)	Avg	-----	1.4110 e5	-----	0.0833
23)	Hexachlorobutadiene	Avg	-----	1.8274 e5	-----	0.0517
24)	Hexachlorobenzene	Avg	-----	1.7629 e5	-----	0.0496
25)	Oxychlordane	Avg	-----	1.6454 e5	-----	0.0413
26)	2,4'-DDE	Avg	-----	1.2826 e5	-----	0.0401
27)	trans-Nonachlor	Quad	5.6661 e4	1.7916 e5	-2.0512	0.9987
28)	2,4'-DDD	Avg	-----	1.1413 e5	-----	0.0365
29)	2,4'-DDT	Avg	-----	1.0969 e5	-----	0.0488
30)	cis-Nonachlor	Avg	-----	2.0762 e5	-----	0.0325
31)	Mirex	Avg	-----	1.2537 e5	-----	0.0839
32)	Chlordane (1)	Avg	-----	1.9690 e4	-----	0.0196
33)	Chlordane (2)	Avg	-----	2.5064 e4	-----	0.0214
34)	Chlordane (3)	Avg	-----	5.7811 e3	-----	0.0434
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	8.9565 e2	-----	0.0564
37)	Toxaphene (2)	Avg	-----	1.6149 e3	-----	0.0608
38)	Toxaphene (3)	Avg	-----	3.3675 e3	-----	0.0272
39)	Toxaphene (4)	Avg	-----	3.2402 e3	-----	0.0178
40)	Toxaphene (5)	Avg	-----	2.3971 e3	-----	0.0533
41)	Toxaphene (6)	Avg	-----	3.1646 e3	-----	0.0517
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

MJP  
5/26/19

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	2.9337 e5	-----	0.0354
2)	a-BHC	Avg	-----	4.1034 e5	-----	0.0641
3)	g-BHC	Avg	-----	3.5670 e5	-----	0.0579
4)	b-BHC	Avg	-----	1.5827 e5	-----	0.0660
5)	Heptachlor	Avg	-----	3.0598 e5	-----	0.0698
6)	d-BHC	Avg	-----	3.5267 e5	-----	0.0660
7)	Aldrin	Avg	-----	3.2939 e5	-----	0.0519

8)	Heptachlor Expoxide	Avg	-----	3.0085 e5	-----	0.0440
9)	trans-Chlordane	Avg	-----	3.1333 e5	-----	0.0810
10)	cis-Chlordane	Avg	-----	2.9125 e5	-----	0.0459
11)	Endosulfan I	Avg	-----	2.7518 e5	-----	0.0477
12)	4,4'-DDE	Avg	-----	3.1068 e5	-----	0.0582
13)	Dieldrin	Avg	-----	3.0415 e5	-----	0.0661
14)	Endrin	Avg	-----	2.2583 e5	-----	0.0732
15)	4,4'-DDD	Avg	-----	2.5621 e5	-----	0.0737
16)	Endosulfan II	Avg	-----	2.3061 e5	-----	0.0555
17)	4,4'-DDT	Quad	6.5669 e3	1.7140 e5	3.3014 e2	0.9992
18)	Endrin Aldehyde	Quad	1.5509 e5	1.8265 e5	2.1823 e2	0.9961
19)	Endosulfan Sulfate	Avg	-----	2.4909 e5	-----	0.0535
20)	Methoxychlor	Quad	1.4992 e4	8.0453 e4	1.7846 e2	0.9988
21)	Endrin Ketone	Avg	-----	2.5732 e5	-----	0.0831
22) S	DCBP (S)	Avg	-----	1.7976 e5	-----	0.0618
23)	Hexachlorobutadiene	Avg	-----	3.7593 e5	-----	0.0287
24)	Hexachlorobenzene	Avg	-----	3.1409 e5	-----	0.0504
25)	Oxychlordane	Avg	-----	2.7390 e5	-----	0.0649
26)	2,4'-DDE	Avg	-----	2.1214 e5	-----	0.0452
27)	trans-Nonachlor	Avg	-----	3.0164 e5	-----	0.0484
28)	2,4'-DDD	Avg	-----	1.8886 e5	-----	0.0547
29)	2,4'-DDT	Avg	-----	1.7834 e5	-----	0.0624
30)	cis-Nonachlor	Avg	-----	3.3545 e5	-----	0.0623
31)	Mirex	Avg	-----	1.8607 e5	-----	0.0759
32)	Chlordane (1)	Avg	-----	3.6185 e4	-----	0.0762
33)	Chlordane (2)	Avg	-----	3.0364 e4	-----	0.0530
34)	Chlordane (3)	Avg	-----	8.9659 e3	-----	0.0514
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	2.6243 e3	-----	0.0316
37)	Toxaphene (2)	Avg	-----	3.2910 e3	-----	0.0170
38)	Toxaphene (3)	Avg	-----	5.0683 e3	-----	0.0265
39)	Toxaphene (4)	Avg	-----	8.3498 e3	-----	0.0351
40)	Toxaphene (5)	Avg	-----	4.6604 e3	-----	0.0324
41)	Toxaphene (6)	Avg	-----	4.7502 e3	-----	0.0510
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

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ECD5\_QUANTPEST\_190823.M Mon Aug 26 16:04:42 2019



# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

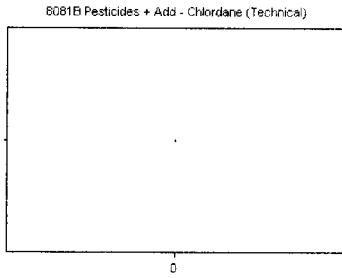
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Chlordane (Technical)

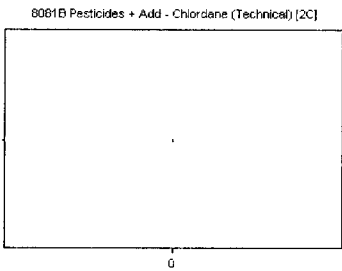
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	5365	107.300	3.45
9H23034-CALI	100	4938	49.380	3.45
9H23034-CALJ	200	4503	22.515	3.45
9H23034-CALK	500	4056	8.112	3.45
9H23034-CALL	1000	4825	4.825	3.45
9H23034-CALM	2000	4939	2.469	3.45
<b>AVE RF 0.000 RF RSD 0.00 AVE RT 0.00</b>				

## Chlordane (Technical) [2C]

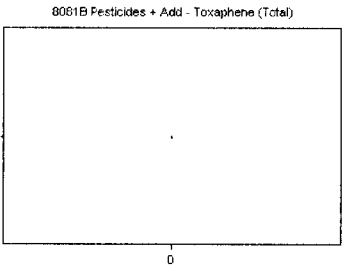
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALH	50	0	0.000	0.00
9H23034-CALI	100	0	0.000	0.00
9H23034-CALJ	200	0	0.000	0.00
9H23034-CALK	500	0	0.000	0.00
9H23034-CALL	1000	0	0.000	0.00
9H23034-CALM	2000	0	0.000	0.00
<b>AVE RF 0.000 RF RSD 0.00 AVE RT 0.00</b>				

## Toxaphene (Total)

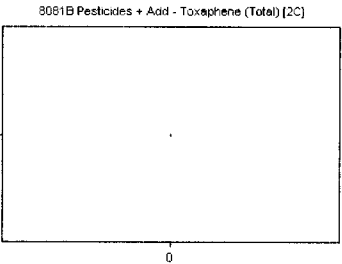
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	4023	80.460	3.45
9H23034-CALO	100	3536	35.360	3.45
9H23034-CALP	200	3919	19.595	3.45
9H23034-CALQ	500	4132	8.264	3.45
9H23034-CALR	1000	2687	2.687	3.45
9H23034-CALS	2000	4166	2.083	3.45
<b>AVE RF 0.000 RF RSD 0.00 AVE RT 0.00</b>				

## Toxaphene (Total) [2C]

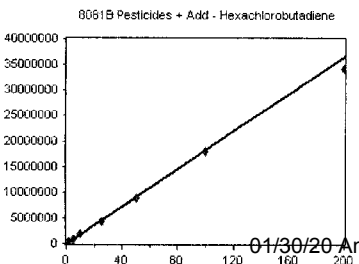
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	0	0.000	0.00
9H23034-CALO	100	0	0.000	0.00
9H23034-CALP	200	0	0.000	0.00
9H23034-CALQ	500	0	0.000	0.00
9H23034-CALR	1000	0	0.000	0.00
9H23034-CALS	2000	0	0.000	0.00
<b>AVE RF 0.000 RF RSD 0.00 AVE RT 0.00</b>				

## Hexachlorobutadiene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	198207	198207.000	3.20
9H23034-CALA	2	375794	187897.000	3.20
9H23034-CALB	5	959211	191842.200	3.20
9H23034-CALC	10	1838187	183818.700	3.20
9H23034-CALD	25	4363988	174559.500	3.20
9H23034-CALE	50	8761747	175234.900	3.20
9H23034-CALF	100	795213E+07	179521.300	3.20
9H23034-CALG	200	416653E+07	170832.600	3.20
<b>AVE RF 0.000 RF RSD 0.00 AVE RT 0.00</b>				

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

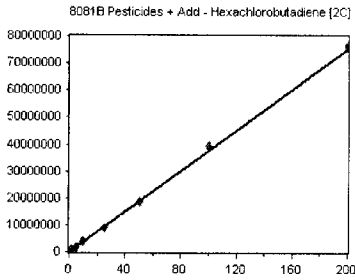
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Hexachlorobutadiene [2C]

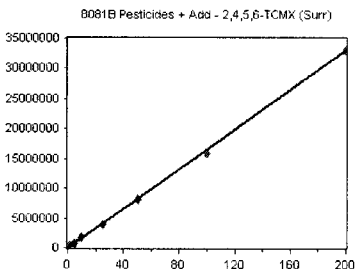
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	383198	383198.000	3.69	
9H23034-CALA	2	754548	377274.000	3.69	
9H23034-CALB	5	1877484	375496.800	3.69	
9H23034-CALC	10	3701532	370153.200	3.69	
9H23034-CALD	25	8892238	355689.500	3.69	
9H23034-CALE	50	863562E+07	372712.400	3.69	
9H23034-CALF	100	929888E+07	392988.800	3.69	
9H23034-CALG	200	598857E+07	379942.800	3.69	
<b>AVE RF</b>	<b>375931.900</b>	<b>RF RSD</b>	<b>2.87</b>	<b>AVE RT</b>	<b>3.69</b>

## 2,4,5,6-TCMX (Surr)

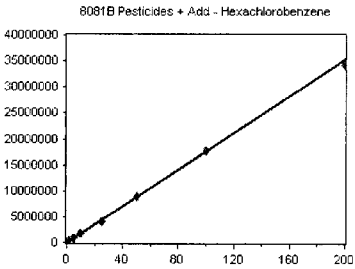
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	176748	176748.000	5.40	
9H23034-CAL2	2	349972	174986.000	5.40	
9H23034-CAL3	5	834206	166841.200	5.40	
9H23034-CAL4	10	1644447	164444.700	5.40	
9H23034-CAL5	25	4015832	160633.300	5.39	
9H23034-CAL6	50	8071481	161429.600	5.39	
9H23034-CAL7	100	585092E+07	158509.200	5.40	
9H23034-CAL8	200	284254E+07	164212.700	5.39	
<b>AVE RF</b>	<b>165975.600</b>	<b>RF RSD</b>	<b>4.00</b>	<b>AVE RT</b>	<b>5.40</b>

## Hexachlorobenzene

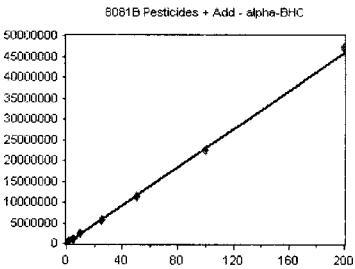
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	194679	194679.000	5.78	
9H23034-CALA	2	362082	181041.000	5.78	
9H23034-CALB	5	853793	170758.600	5.78	
9H23034-CALC	10	1711884	171188.400	5.77	
9H23034-CALD	25	4184551	167382.000	5.77	
9H23034-CALE	50	8911624	178232.500	5.77	
9H23034-CALF	100	767002E+07	176700.200	5.78	
9H23034-CALG	200	407346E+07	170367.300	5.77	
<b>AVE RF</b>	<b>176293.600</b>	<b>RF RSD</b>	<b>4.96</b>	<b>AVE RT</b>	<b>5.77</b>

## alpha-BHC

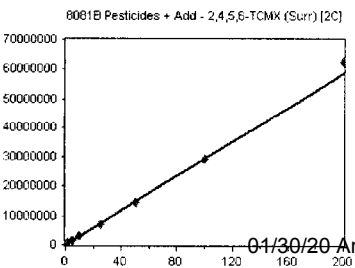
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	231994	231994.000	5.94	
9H23034-CAL2	2	458365	229182.500	5.94	
9H23034-CAL3	5	1147932	229586.400	5.94	
9H23034-CAL4	10	2347065	234706.500	5.94	
9H23034-CAL5	25	5553096	222123.800	5.94	
9H23034-CAL6	50	136959E+07	227391.800	5.94	
9H23034-CAL7	100	236358E+07	223635.800	5.94	
9H23034-CAL8	200	720225E+07	236011.200	5.94	
<b>AVE RF</b>	<b>229329.000</b>	<b>RF RSD</b>	<b>2.14</b>	<b>AVE RT</b>	<b>5.94</b>

## 2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	300053	300053.000	5.99	
9H23034-CAL2	2	600766	300383.000	5.99	
9H23034-CAL3	5	1437876	287575.200	5.99	
9H23034-CAL4	10	2865854	286585.400	5.99	
9H23034-CAL5	25	7072923	282916.900	5.99	
9H23034-CAL6	50	419675E+07	283935.000	5.99	
9H23034-CAL7	100	925633E+07	292563.300	5.99	
9H23034-CAL8	200	258445E+07	312922.300	5.99	
<b>AVE RF</b>	<b>293868.800</b>	<b>RF RSD</b>	<b>2.54</b>	<b>AVE RT</b>	<b>5.99</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

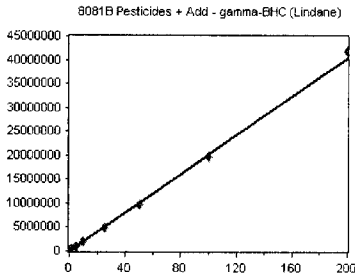
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## gamma-BHC (Lindane)

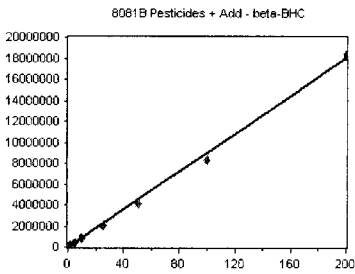
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	207427	207427.000	6.22	
9H23034-CAL2	2	406027	203013.500	6.22	
9H23034-CAL3	5	1020724	204144.800	6.22	
9H23034-CAL4	10	2034859	203485.900	6.22	
9H23034-CAL5	25	4875657	195026.300	6.22	
9H23034-CAL6	50	9785999	195720.000	6.22	
9H23034-CAL7	100	959509E+07	195950.900	6.22	
9H23034-CAL8	200	188973E+07	209448.600	6.22	
<b>AVE RF</b>	<b>201777.100</b>	<b>RF RSD</b>	<b>2.76</b>	<b>AVE RT</b>	<b>6.22</b>

## beta-BHC

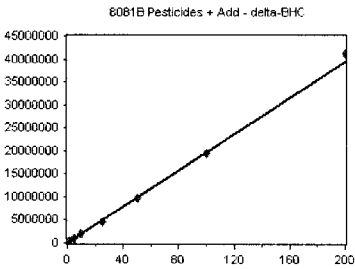
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	104326	104326.000	6.30	
9H23034-CAL2	2	194168	97084.000	6.30	
9H23034-CAL3	5	456954	91390.800	6.30	
9H23034-CAL4	10	910875	91087.500	6.30	
9H23034-CAL5	25	2060378	82415.120	6.30	
9H23034-CAL6	50	4100858	82017.160	6.30	
9H23034-CAL7	100	8355416	83554.160	6.30	
9H23034-CAL8	200	.82387E+07	91193.500	6.29	
<b>AVE RF</b>	<b>90383.530</b>	<b>RF RSD</b>	<b>8.59</b>	<b>AVE RT</b>	<b>6.30</b>

## delta-BHC

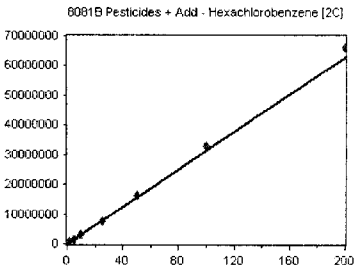
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	199840	199840.000	6.45	
9H23034-CAL2	2	386980	193490.000	6.45	
9H23034-CAL3	5	1004012	200802.400	6.45	
9H23034-CAL4	10	2006493	200649.300	6.45	
9H23034-CAL5	25	4667166	186686.600	6.45	
9H23034-CAL6	50	9610742	192214.800	6.45	
9H23034-CAL7	100	947558E+07	194755.800	6.45	
9H23034-CAL8	200	101659E+07	205083.000	6.45	
<b>AVE RF</b>	<b>196690.200</b>	<b>RF RSD</b>	<b>3.02</b>	<b>AVE RT</b>	<b>6.45</b>

## Hexachlorobenzene [2C]

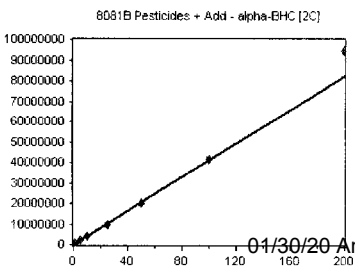
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	328025	328025.000	6.45	
9H23034-CALA	2	632830	316415.000	6.45	
9H23034-CALB	5	1485583	297116.600	6.45	
9H23034-CALC	10	2936294	293629.400	6.45	
9H23034-CALD	25	7416324	296653.000	6.45	
9H23034-CALE	50	509416E+07	321883.200	6.45	
9H23034-CALF	100	276671E+07	327667.100	6.46	
9H23034-CALG	200	526197E+07	331309.800	6.45	
<b>AVE RF</b>	<b>314087.400</b>	<b>RF RSD</b>	<b>5.04</b>	<b>AVE RT</b>	<b>6.45</b>

## alpha-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	393119	393119.000	6.60	
9H23034-CAL2	2	784586	392293.000	6.60	
9H23034-CAL3	5	1985438	397087.600	6.60	
9H23034-CAL4	10	4095890	409589.000	6.60	
9H23034-CAL5	25	9910863	396434.500	6.60	
9H23034-CAL6	50	026582E+07	405316.400	6.60	
9H23034-CAL7	100	169921E+07	416992.100	6.60	
9H23034-CAL8	200	437675E+07	471883.800	6.60	
<b>AVE RF</b>	<b>440399.400</b>	<b>RF RSD</b>	<b>6.41</b>	<b>AVE RT</b>	<b>6.60</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

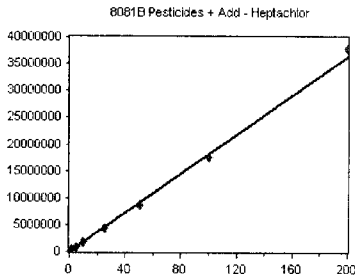
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Heptachlor

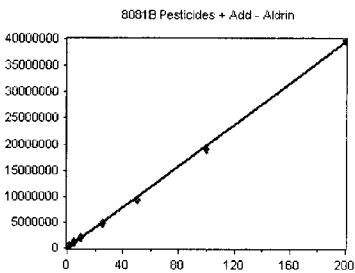
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	192066	192066.000	6.64	
9H23034-CAL2	2	369615	184807.500	6.64	
9H23034-CAL3	5	899091	179818.200	6.64	
9H23034-CAL4	10	1819621	181962.100	6.63	
9H23034-CAL5	25	4314306	172572.200	6.63	
9H23034-CAL6	50	8735158	174703.200	6.63	
9H23034-CAL7	100	755153E+07	175515.300	6.63	
9H23034-CAL8	200	1.77857E+07	188928.500	6.63	
<b>AVE RF</b>	<b>181296.600</b>	<b>RF RSD</b>	<b>3.86</b>	<b>AVE RT</b>	<b>6.63</b>

## Aldrin

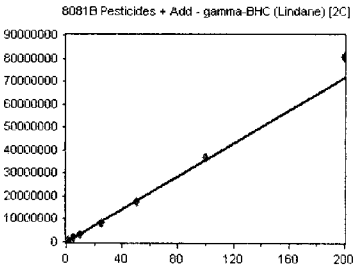
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	205523	205523.000	6.88	
9H23034-CAL2	2	399550	199775.000	6.88	
9H23034-CAL3	5	1012733	202546.600	6.88	
9H23034-CAL4	10	2010802	201080.200	6.88	
9H23034-CAL5	25	4845355	193814.200	6.87	
9H23034-CAL6	50	9327672	186553.400	6.87	
9H23034-CAL7	100	910807E+07	191080.700	6.87	
9H23034-CAL8	200	1.98384E+07	199192.000	6.87	
<b>AVE RF</b>	<b>197445.600</b>	<b>RF RSD</b>	<b>3.23</b>	<b>AVE RT</b>	<b>6.87</b>

## gamma-BHC (Lindane) [2C]

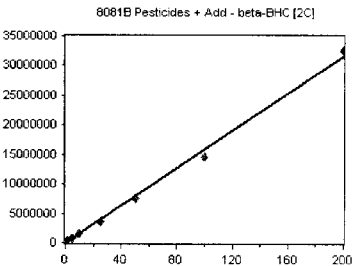
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	352286	352286.000	6.92	
9H23034-CAL2	2	690922	345461.000	6.92	
9H23034-CAL3	5	1742677	348535.400	6.92	
9H23034-CAL4	10	3476733	347673.300	6.92	
9H23034-CAL5	25	8508386	340335.400	6.91	
9H23034-CAL6	50	738107E+07	347621.400	6.91	
9H23034-CAL7	100	578899E+07	367889.900	6.91	
9H23034-CAL8	200	076568E+07	403828.400	6.91	
<b>AVE RF</b>	<b>356703.900</b>	<b>RF RSD</b>	<b>5.79</b>	<b>AVE RT</b>	<b>6.91</b>

## beta-BHC [2C]

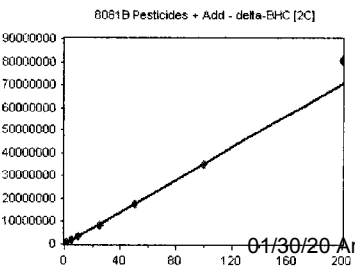
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	176262	176262.000	6.98	
9H23034-CAL2	2	335260	167630.000	6.98	
9H23034-CAL3	5	788630	157726.000	6.98	
9H23034-CAL4	10	1580847	158084.700	6.98	
9H23034-CAL5	25	3677155	147086.200	6.98	
9H23034-CAL6	50	7516011	150320.200	6.98	
9H23034-CAL7	100	462518E+07	146251.800	6.98	
9H23034-CAL8	200	255343E+07	162767.200	6.98	
<b>AVE RF</b>	<b>158266.000</b>	<b>RF RSD</b>	<b>6.60</b>	<b>AVE RT</b>	<b>6.98</b>

## delta-BHC [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	349123	349123.000	7.23	
9H23034-CAL2	2	669122	334561.000	7.23	
9H23034-CAL3	5	1717450	343490.000	7.23	
9H23034-CAL4	10	3613517	361351.700	7.23	
9H23034-CAL5	25	8247775	329911.000	7.23	
9H23034-CAL6	50	731126E+07	346225.200	7.23	
9H23034-CAL7	100	517663E+07	351766.300	7.23	
9H23034-CAL8	200	097975E+07	404898.800	7.23	
<b>AVE RF</b>	<b>352659.000</b>	<b>RF RSD</b>	<b>6.80</b>	<b>AVE RT</b>	<b>7.23</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

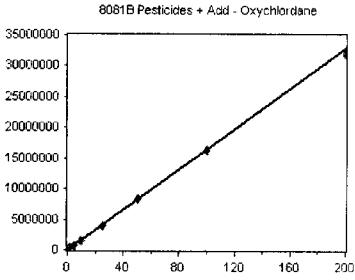
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Oxychlorthane

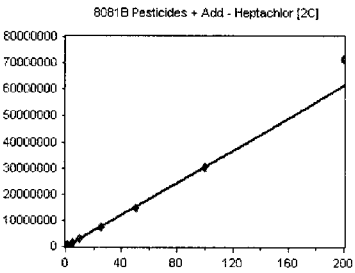
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	176844	176844.000	7.26	
9H23034-CALA	2	339370	169685.000	7.26	
9H23034-CALB	5	819748	163949.600	7.26	
9H23034-CALC	10	1591613	159161.300	7.26	
9H23034-CALD	25	3881255	155250.200	7.26	
9H23034-CALE	50	8382873	167657.500	7.26	
9H23034-CALF	100	535922E+07	163592.200	7.26	
9H23034-CALG	200	203263E+07	160163.200	7.26	
<b>AVE RF</b>	<b>164537.900</b>	<b>RF RSD</b>	<b>4.13</b>	<b>AVE RT</b>	<b>7.26</b>

## Heptachlor [2C]

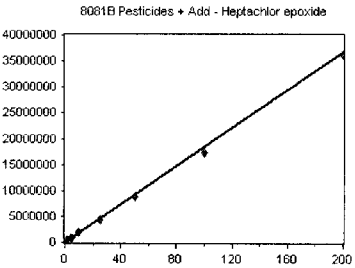
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	309811	309811.000	7.29	
9H23034-CAL2	2	586765	293382.500	7.29	
9H23034-CAL3	5	1508218	301643.600	7.29	
9H23034-CAL4	10	3005915	300591.500	7.29	
9H23034-CAL5	25	7282282	291291.300	7.29	
9H23034-CAL6	50	459514E+07	291902.800	7.29	
9H23034-CAL7	100	027782E+07	302778.200	7.29	
9H23034-CAL8	200	128318E+07	356415.900	7.29	
<b>AVE RF</b>	<b>305977.100</b>	<b>RF RSD</b>	<b>6.98</b>	<b>AVE RT</b>	<b>7.29</b>

## Heptachlor epoxide

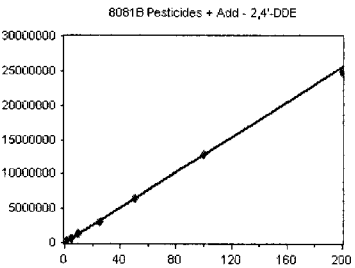
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	200503	200503.000	7.34	
9H23034-CAL2	2	392052	196026.000	7.34	
9H23034-CAL3	5	923620	184724.000	7.34	
9H23034-CAL4	10	1865428	186542.800	7.34	
9H23034-CAL5	25	4344286	173771.400	7.33	
9H23034-CAL6	50	8869300	177386.000	7.33	
9H23034-CAL7	100	731844E+07	173184.400	7.33	
9H23034-CAL8	200	525817E+07	181290.800	7.33	
<b>AVE RF</b>	<b>184178.600</b>	<b>RF RSD</b>	<b>5.42</b>	<b>AVE RT</b>	<b>7.33</b>

## 2,4'-DDE

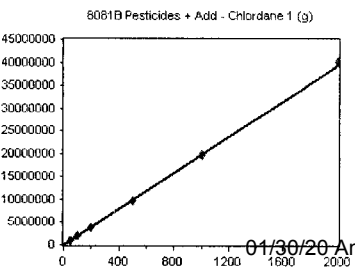
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	137947	137947.000	7.34	
9H23034-CALA	2	265212	132606.000	7.33	
9H23034-CALB	5	633168	126633.600	7.33	
9H23034-CALC	10	1245265	124526.500	7.33	
9H23034-CALD	25	3059421	122376.800	7.33	
9H23034-CALE	50	6510588	130211.800	7.33	
9H23034-CALF	100	276907E+07	127690.700	7.33	
9H23034-CALG	200	1.48192E+07	124096.000	7.33	
<b>AVE RF</b>	<b>128261.100</b>	<b>RF RSD</b>	<b>4.01</b>	<b>AVE RT</b>	<b>7.33</b>

## Chlordane 1 (g)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1009143	20182.860	7.43	
9H23034-CALI	100	1978897	19788.970	7.43	
9H23034-CALJ	200	3849299	19246.490	7.43	
9H23034-CALK	500	9628671	19257.340	7.43	
9H23034-CALL	1000	964377E+07	19643.770	7.43	
9H23034-CALM	2000	1.00365E+07	20018.250	7.43	
<b>AVE RF</b>	<b>19680.010</b>	<b>RF RSD</b>	<b>5.00</b>	<b>AVE RT</b>	<b>7.43</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

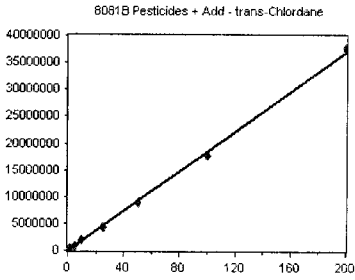
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## trans-Chlordane

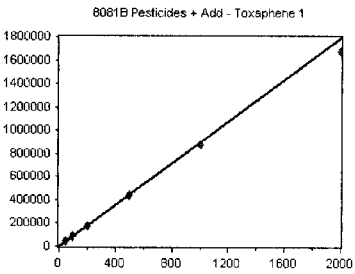
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	197202	197202.000	7.43	
9H23034-CAL2	2	382271	191135.500	7.43	
9H23034-CAL3	5	926577	185315.400	7.43	
9H23034-CAL4	10	1847996	184799.600	7.43	
9H23034-CAL5	25	4401456	176058.200	7.43	
9H23034-CAL6	50	8959305	179186.100	7.43	
9H23034-CAL7	100	773279E+07	177327.900	7.43	
9H23034-CAL8	200	762141E+07	188107.000	7.43	
<b>AVE RF</b>	<b>184891.500</b>	<b>RF RSD</b>	<b>3.93</b>	<b>AVE RT</b>	<b>7.43</b>

## Toxaphene 1

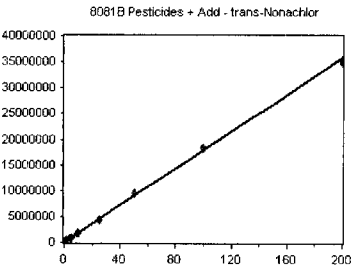
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	49250	985.000	7.51	
9H23034-CALO	100	91576	915.760	7.50	
9H23034-CALP	200	176047	880.235	7.50	
9H23034-CALQ	500	441826	883.652	7.50	
9H23034-CALR	1000	871889	871.889	7.50	
9H23034-CALS	2000	1674674	837.337	7.50	
<b>AVE RF</b>	<b>895.646</b>	<b>RF RSD</b>	<b>5.63</b>	<b>AVE RT</b>	<b>7.50</b>

## trans-Nonachlor

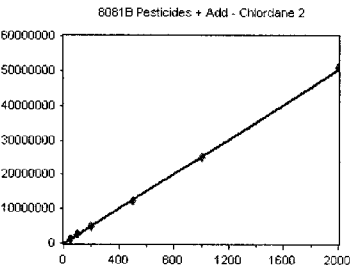
Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	236836	236836.000	7.52	
9H23034-CALA	2	415126	207563.000	7.52	
9H23034-CALB	5	933222	186644.400	7.52	
9H23034-CALC	10	1817552	181755.200	7.52	
9H23034-CALD	25	4391046	175641.800	7.52	
9H23034-CALE	50	9581794	191635.900	7.52	
9H23034-CALF	100	835125E+07	183512.500	7.52	
9H23034-CALG	200	502792E+07	175139.600	7.51	
<b>AVE RF</b>	<b>192341.100</b>	<b>RF RSD</b>	<b>10.78</b>	<b>AVE RT</b>	<b>7.52</b>

## Chlordane 2

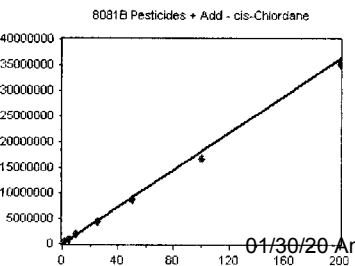
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1286655	25733.100	7.52	
9H23034-CALI	100	2519520	25195.200	7.52	
9H23034-CALJ	200	4906320	24531.600	7.52	
9H23034-CALK	500	217652E+07	24353.040	7.52	
9H23034-CALL	1000	508324E+07	25083.240	7.52	
9H23034-CALM	2000	097914E+07	25489.570	7.52	
<b>AVE RF</b>	<b>25064.290</b>	<b>RF RSD</b>	<b>2.14</b>	<b>AVE RT</b>	<b>7.52</b>

## cis-Chlordane

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	209780	209780.000	7.53	
9H23034-CAL2	2	389999	194999.500	7.53	
9H23034-CAL3	5	908795	181759.000	7.53	
9H23034-CAL4	10	1843346	184334.600	7.53	
9H23034-CAL5	25	4244413	169776.500	7.53	
9H23034-CAL6	50	8622674	172453.500	7.52	
9H23034-CAL7	100	574258E+07	167425.800	7.52	
9H23034-CAL8	200	520794E+07	176039.700	7.52	
<b>AVE RF</b>	<b>182871.100</b>	<b>RF RSD</b>	<b>9.88</b>	<b>AVE RT</b>	<b>7.53</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

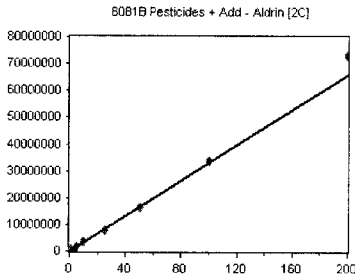
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Aldrin [2C]

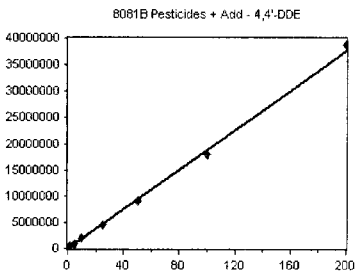
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	317466	317466.000	7.56	
9H23034-CAL2	2	635458	317729.000	7.56	
9H23034-CAL3	5	1600995	320199.000	7.56	
9H23034-CAL4	10	3341093	334109.300	7.56	
9H23034-CAL5	25	7878574	315143.000	7.56	
9H23034-CAL6	50	526442E+07	325288.400	7.56	
9H23034-CAL7	100	390642E+07	339064.200	7.56	
9H23034-CAL8	200	322818E+07	366140.900	7.55	
<b>AVE RF</b>	<b>329392.500</b>	<b>RF RSD</b>	<b>5.19</b>	<b>AVE RT</b>	<b>7.56</b>

## 4,4'-DDE

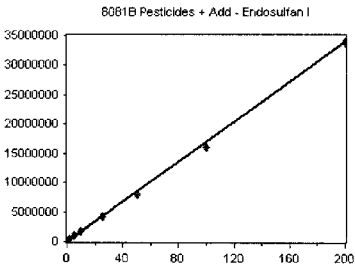
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	193435	193435.000	7.59	
9H23034-CAL2	2	388618	194309.000	7.59	
9H23034-CAL3	5	953351	190670.200	7.59	
9H23034-CAL4	10	1890931	189093.100	7.59	
9H23034-CAL5	25	4571066	182842.600	7.58	
9H23034-CAL6	50	9177389	183547.800	7.58	
9H23034-CAL7	100	805255E+07	180525.500	7.58	
9H23034-CAL8	200	876308E+07	193815.400	7.58	
<b>AVE RF</b>	<b>188529.800</b>	<b>RF RSD</b>	<b>2.92</b>	<b>AVE RT</b>	<b>7.58</b>

## Endosulfan I

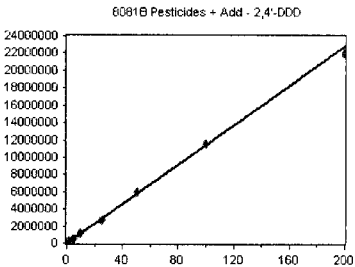
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	185217	185217.000	7.63	
9H23034-CAL2	2	357368	178684.000	7.63	
9H23034-CAL3	5	861509	172301.800	7.62	
9H23034-CAL4	10	1709332	170933.200	7.62	
9H23034-CAL5	25	4111285	164451.400	7.62	
9H23034-CAL6	50	7984410	159688.200	7.62	
9H23034-CAL7	100	1.609E+07	160900.000	7.62	
9H23034-CAL8	200	385259E+07	169263.000	7.62	
<b>AVE RF</b>	<b>170179.800</b>	<b>RF RSD</b>	<b>5.13</b>	<b>AVE RT</b>	<b>7.62</b>

## 2,4'-DDD

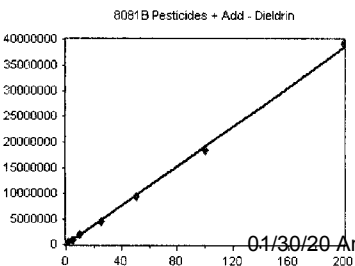
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	120240	120240.000	7.71	
9H23034-CALA	2	233089	116544.500	7.71	
9H23034-CALB	5	560942	112188.400	7.71	
9H23034-CALC	10	1103587	110358.700	7.71	
9H23034-CALD	25	2745178	109807.100	7.71	
9H23034-CALE	50	5920095	118401.900	7.71	
9H23034-CALF	100	158755E+07	115875.500	7.71	
9H23034-CALG	200	191696E+07	109584.800	7.70	
<b>AVE RF</b>	<b>114125.100</b>	<b>RF RSD</b>	<b>3.65</b>	<b>AVE RT</b>	<b>7.71</b>

## Dieldrin

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	197721	197721.000	7.80	
9H23034-CAL2	2	395728	197864.000	7.80	
9H23034-CAL3	5	972009	194401.800	7.80	
9H23034-CAL4	10	1954890	195489.000	7.80	
9H23034-CAL5	25	4582306	183292.200	7.79	
9H23034-CAL6	50	9386664	187733.300	7.79	
9H23034-CAL7	100	832442E+07	183244.200	7.79	
9H23034-CAL8	200	921777E+07	196088.800	7.79	
<b>AVE RF</b>	<b>191993.300</b>	<b>RF RSD</b>	<b>9.25</b>	<b>AVE RT</b>	<b>7.79</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

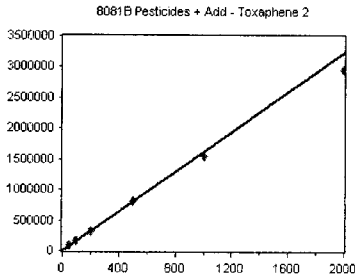
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Toxaphene 2

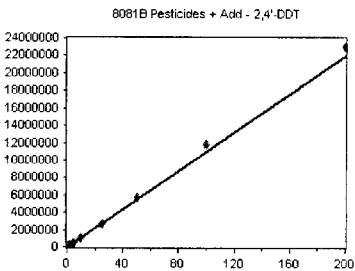
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	88321	1766.420	7.79
9H23034-CALO	100	166085	1660.850	7.80
9H23034-CALP	200	317587	1587.935	7.80
9H23034-CALQ	500	819454	1638.908	7.79
9H23034-CALR	1000	1556013	1556.013	7.79
9H23034-CALS	2000	2958997	1479.499	7.79
<b>AVE RF</b>		<b>1614.937</b>	<b>RF RSD</b>	<b>6.08</b>
			<b>AVE RT</b>	<b>7.79</b>

## 2,4'-DDT

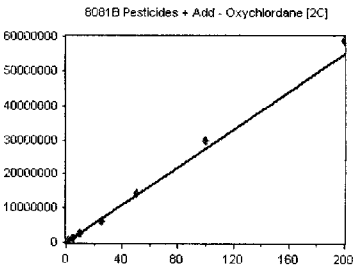
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	107110	107110.000	7.89
9H23034-CALA	2	204209	102104.500	7.89
9H23034-CALB	5	536967	107393.400	7.89
9H23034-CALC	10	1051565	105156.500	7.89
9H23034-CALD	25	2728794	109151.800	7.89
9H23034-CALE	50	5687323	113746.500	7.89
9H23034-CALF	100	177135E+07	117713.500	7.89
9H23034-CALG	200	302496E+07	115124.800	7.89
<b>AVE RF</b>		<b>109687.600</b>	<b>RF RSD</b>	<b>4.88</b>
			<b>AVE RT</b>	<b>7.89</b>

## Oxychlorane [2C]

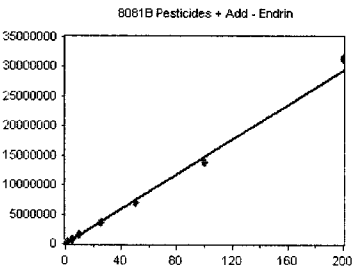
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	279143	279143.000	7.92
9H23034-CALA	2	541023	270511.500	7.92
9H23034-CALB	5	1325543	265108.600	7.92
9H23034-CALC	10	2538903	253890.300	7.92
9H23034-CALD	25	6202791	248111.600	7.92
9H23034-CALE	50	417254E+07	283450.800	7.92
9H23034-CALF	100	973215E+07	297321.500	7.92
9H23034-CALG	200	873698E+07	293684.900	7.92
<b>AVE RF</b>		<b>273902.800</b>	<b>RF RSD</b>	<b>6.49</b>
			<b>AVE RT</b>	<b>7.92</b>

## Endrin

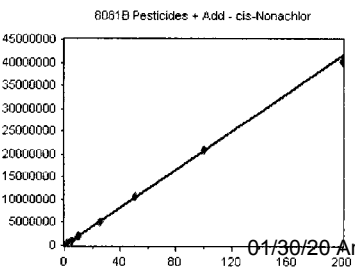
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	156412	156412.000	7.96
9H23034-CAL2	2	298515	149257.500	7.96
9H23034-CAL3	5	738953	147790.600	7.96
9H23034-CAL4	10	1475508	147550.800	7.96
9H23034-CAL5	25	3508904	140356.200	7.96
9H23034-CAL6	50	6979572	139591.400	7.96
9H23034-CAL7	100	381271E+07	138127.100	7.96
9H23034-CAL8	200	142631E+07	157131.500	7.96
<b>AVE RF</b>		<b>147027.100</b>	<b>RF RSD</b>	<b>4.98</b>
			<b>AVE RT</b>	<b>7.96</b>

## cis-Nonachlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CAL9	1	219220	219220.000	7.99
9H23034-CALA	2	423442	211721.000	7.99
9H23034-CALB	5	1025899	205179.800	7.99
9H23034-CALC	10	2032010	203201.000	7.99
9H23034-CALD	25	4993110	199724.400	7.99
9H23034-CALE	50	061602E+07	212320.400	7.99
9H23034-CALF	100	093264E+07	209326.400	7.99
9H23034-CALG	200	004618E+07	200230.900	7.98
<b>AVE RF</b>		<b>207695.500</b>	<b>RF RSD</b>	<b>6.28</b>
			<b>AVE RT</b>	<b>7.99</b>



# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

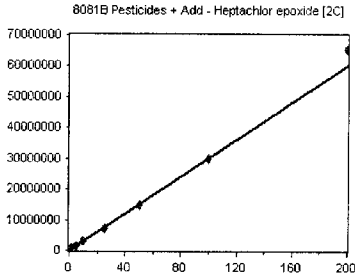
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Heptachlor epoxide [2C]

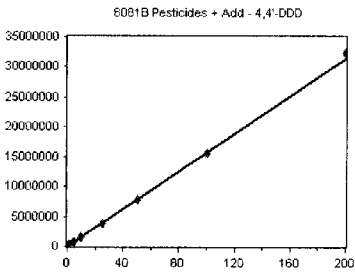
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	310098	310098.000	7.99	
9H23034-CAL2	2	606240	303120.000	7.99	
9H23034-CAL3	5	1455941	291188.200	7.99	
9H23034-CAL4	10	2959301	295930.100	7.99	
9H23034-CAL5	25	7064729	282589.200	7.99	
9H23034-CAL6	50	483779E+07	296755.800	7.99	
9H23034-CAL7	100	004551E+07	300455.100	7.99	
9H23034-CAL8	200	533007E+07	326650.400	7.99	
<b>AVE RF</b>	<b>300848.300</b>	<b>RF RSD</b>	<b>4.40</b>	<b>AVE RT</b>	<b>7.99</b>

## 4,4'-DDD

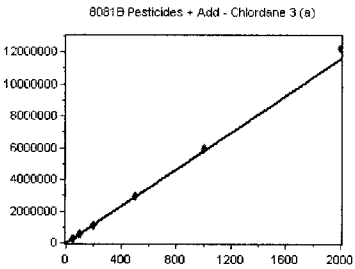
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	164956	164956.000	8.01	
9H23034-CAL2	2	314622	157311.000	8.01	
9H23034-CAL3	5	790498	158099.600	8.01	
9H23034-CAL4	10	1565974	156597.400	8.01	
9H23034-CAL5	25	3727035	149081.400	8.00	
9H23034-CAL6	50	7726197	154523.900	8.00	
9H23034-CAL7	100	543715E+07	154371.500	8.00	
9H23034-CAL8	200	1.24368E+07	162184.000	8.00	
<b>AVE RF</b>	<b>157140.600</b>	<b>RF RSD</b>	<b>3.11</b>	<b>AVE RT</b>	<b>8.00</b>

## Chlordane 3 (a)

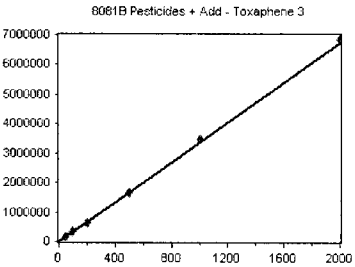
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	288087	5761.740	8.07	
9H23034-CALI	100	548196	5481.960	8.07	
9H23034-CALJ	200	1101677	5508.385	8.07	
9H23034-CALK	500	2921278	5842.556	8.07	
9H23034-CALL	1000	5987927	5987.927	8.07	
9H23034-CALM	2000	220831E+07	6104.155	8.07	
<b>AVE RF</b>	<b>5781.121</b>	<b>RF RSD</b>	<b>4.34</b>	<b>AVE RT</b>	<b>8.07</b>

## Toxaphene 3

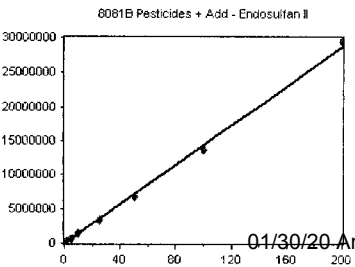
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	169381	3387.620	8.11	
9H23034-CALO	100	332842	3328.420	8.11	
9H23034-CALP	200	644464	3222.320	8.11	
9H23034-CALQ	500	1677481	3354.962	8.11	
9H23034-CALR	1000	3495877	3495.877	8.11	
9H23034-CALS	2000	6831460	3415.730	8.10	
<b>AVE RF</b>	<b>3367.488</b>	<b>RF RSD</b>	<b>2.72</b>	<b>AVE RT</b>	<b>8.11</b>

## Endosulfan II

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	158139	158139.000	8.12	
9H23034-CAL2	2	299106	149553.000	8.12	
9H23034-CAL3	5	709544	141908.800	8.12	
9H23034-CAL4	10	1448080	144808.000	8.12	
9H23034-CAL5	25	3371864	134874.600	8.12	
9H23034-CAL6	50	6840920	136818.400	8.11	
9H23034-CAL7	100	.35435E+07	135435.000	8.11	
9H23034-CAL8	200	947104E+07	147355.200	8.11	
<b>AVE RF</b>	<b>143671.500</b>	<b>RF RSD</b>	<b>9.81</b>	<b>AVE RT</b>	<b>8.12</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

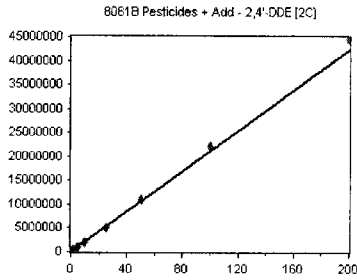
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## 2,4'-DDE [2C]

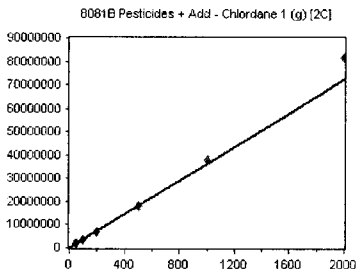
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	219164	219164.000	8.12	
9H23034-CALA	2	411812	205906.000	8.12	
9H23034-CALB	5	1029687	205937.400	8.12	
9H23034-CALC	10	2018331	201833.100	8.12	
9H23034-CALD	25	4999232	199969.300	8.12	
9H23034-CALE	50	.10064E+07	220128.000	8.12	
9H23034-CALF	100	.21644E+07	221644.000	8.12	
9H23034-CALG	200	450459E+07	222523.000	8.12	
<b>AVE RF</b>	<b>212138.100</b>	<b>RF RSD</b>	<b>4.52</b>	<b>AVE RT</b>	<b>8.12</b>

## Chlordane 1 (g) [2C]

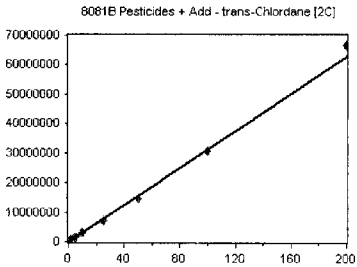
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1754707	35094.140	8.13	
9H23034-CALI	100	3378388	33783.880	8.13	
9H23034-CALJ	200	6751197	33755.980	8.13	
9H23034-CALK	500	783043E+07	35660.860	8.13	
9H23034-CALL	1000	796674E+07	37966.740	8.13	
9H23034-CALM	2000	169171E+07	40845.860	8.13	
<b>AVE RF</b>	<b>36184.580</b>	<b>RF RSD</b>	<b>7.62</b>	<b>AVE RT</b>	<b>8.13</b>

## trans-Chlordane [2C]

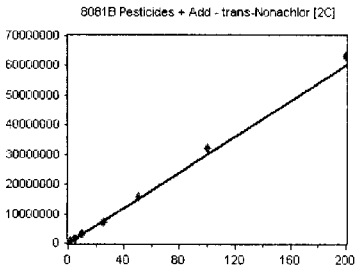
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	364142	364142.000	8.14	
9H23034-CAL2	2	644454	322227.000	8.14	
9H23034-CAL3	5	1502119	300423.800	8.13	
9H23034-CAL4	10	3002782	300278.200	8.13	
9H23034-CAL5	25	7157480	286299.200	8.13	
9H23034-CAL6	50	467872E+07	293574.400	8.13	
9H23034-CAL7	100	074227E+07	307422.700	8.13	
9H23034-CAL8	200	644797E+07	332239.800	8.13	
<b>AVE RF</b>	<b>313325.900</b>	<b>RF RSD</b>	<b>8.10</b>	<b>AVE RT</b>	<b>8.13</b>

## trans-Nonachlor [2C]

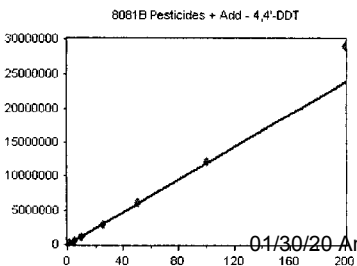
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	306202	306202.000	8.20	
9H23034-CALA	2	587765	293882.500	8.19	
9H23034-CALB	5	1467723	293544.600	8.19	
9H23034-CALC	10	2844404	284440.400	8.19	
9H23034-CALD	25	7092288	283691.500	8.19	
9H23034-CALE	50	580771E+07	316154.200	8.19	
9H23034-CALF	100	197527E+07	319752.700	8.20	
9H23034-CALG	200	308364E+07	315418.200	8.19	
<b>AVE RF</b>	<b>301635.800</b>	<b>RF RSD</b>	<b>4.84</b>	<b>AVE RT</b>	<b>8.19</b>

## 4,4'-DDT

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	113897	113897.000	8.21	
9H23034-CAL2	2	218190	109095.000	8.20	
9H23034-CAL3	5	553009	110601.800	8.21	
9H23034-CAL4	10	1146556	114655.600	8.20	
9H23034-CAL5	25	2924467	116978.700	8.20	
9H23034-CAL6	50	6205369	124107.400	8.20	
9H23034-CAL7	100	217696E+07	121769.600	8.20	
9H23034-CAL8	200	907522E+07	145376.100	8.20	
<b>AVE RF</b>	<b>119560.100</b>	<b>RF RSD</b>	<b>9.72</b>	<b>AVE RT</b>	<b>8.20</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

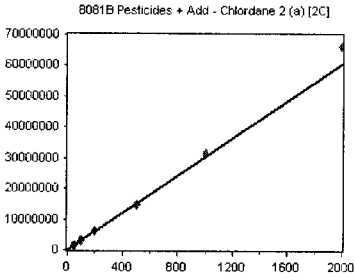
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Chlordane 2 (a) [2C]

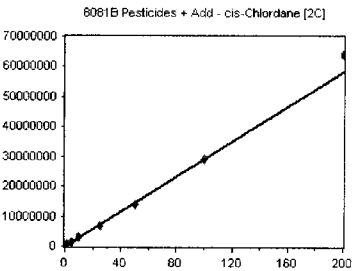
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	1472400	29448.000	8.24	
9H23034-CALI	100	2905941	29059.410	8.24	
9H23034-CALJ	200	5883615	29418.070	8.24	
9H23034-CALK	500	481227E+07	29624.540	8.24	
9H23034-CALL	1000	149368E+07	31493.680	8.24	
9H23034-CALM	2000	528139E+07	33140.700	8.24	
<b>AVE RF</b>	<b>30364.070</b>	<b>RF RSD</b>	<b>5.30</b>	<b>AVE RT</b>	<b>8.24</b>

## cis-Chlordane [2C]

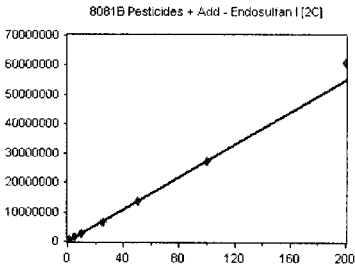
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	299422	299422.000	8.24	
9H23034-CAL2	2	579667	289833.500	8.24	
9H23034-CAL3	5	1434855	286971.000	8.24	
9H23034-CAL4	10	2859573	285957.300	8.24	
9H23034-CAL5	25	6935857	277434.300	8.24	
9H23034-CAL6	50	400212E+07	280042.400	8.24	
9H23034-CAL7	100	904286E+07	290428.600	8.24	
9H23034-CAL8	200	397706E+07	319885.300	8.24	
<b>AVE RF</b>	<b>291246.800</b>	<b>RF RSD</b>	<b>4.59</b>	<b>AVE RT</b>	<b>8.24</b>

## Endosulfan I [2C]

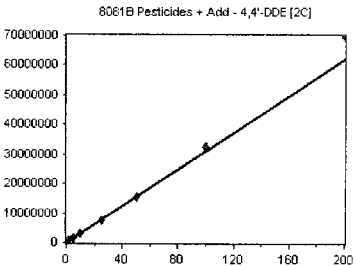
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	278874	278874.000	8.29	
9H23034-CAL2	2	540442	270221.000	8.29	
9H23034-CAL3	5	1327191	265438.200	8.29	
9H23034-CAL4	10	2724272	272427.200	8.29	
9H23034-CAL5	25	6571512	262860.500	8.29	
9H23034-CAL6	50	371233E+07	274246.600	8.29	
9H23034-CAL7	100	721271E+07	272127.100	8.29	
9H23034-CAL8	200	104351E+07	305217.600	8.29	
<b>AVE RF</b>	<b>275176.500</b>	<b>RF RSD</b>	<b>4.77</b>	<b>AVE RT</b>	<b>8.29</b>

## 4,4'-DDE [2C]

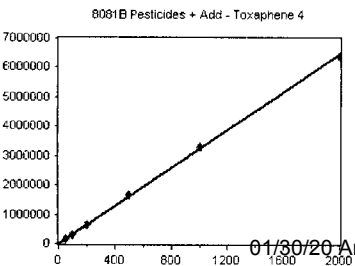
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	298463	298463.000	8.35	
9H23034-CAL2	2	598066	299033.000	8.35	
9H23034-CAL3	5	1487999	297599.800	8.35	
9H23034-CAL4	10	3049792	304979.200	8.35	
9H23034-CAL5	25	7501047	300041.900	8.34	
9H23034-CAL6	50	555471E+07	311094.200	8.34	
9H23034-CAL7	100	1.24996E+07	324996.000	8.34	
9H23034-CAL8	200	984235E+07	349211.800	8.34	
<b>AVE RF</b>	<b>310677.400</b>	<b>RF RSD</b>	<b>5.82</b>	<b>AVE RT</b>	<b>8.34</b>

## Toxaphene 4

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	164317	3286.340	8.35	
9H23034-CALO	100	320313	3203.130	8.35	
9H23034-CALP	200	632351	3161.755	8.35	
9H23034-CALQ	500	1649569	3299.138	8.35	
9H23034-CALR	1000	3287014	3287.014	8.35	
9H23034-CALS	2000	6407070	3203.535	8.35	
<b>AVE RF</b>	<b>3240019</b>	<b>RF RSD</b>	<b>4.57</b>	<b>AVE RT</b>	<b>8.35</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

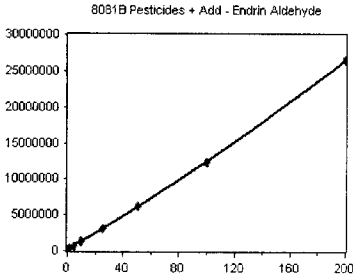
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Endrin Aldehyde

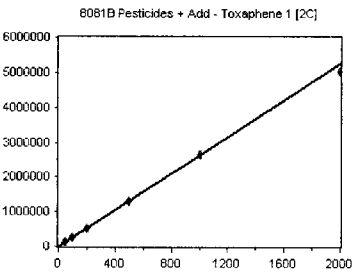
Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	241285	241285.000	8.41	
9H23034-CAL2	2	328182	164091.000	8.41	
9H23034-CAL3	5	683393	136678.600	8.41	
9H23034-CAL4	10	1375129	137512.900	8.41	
9H23034-CAL5	25	3119767	124790.700	8.40	
9H23034-CAL6	50	6224451	124489.000	8.40	
9H23034-CAL7	100	236381E+07	123638.100	8.40	
9H23034-CAL8	200	562767E+07	133138.300	8.40	
<b>AVE RF</b>	<b>148203.000</b>	<b>RF RSD</b>	<b>26.87</b>	<b>AVE RT</b>	<b>8.41</b>

## Toxaphene 1 [2C]

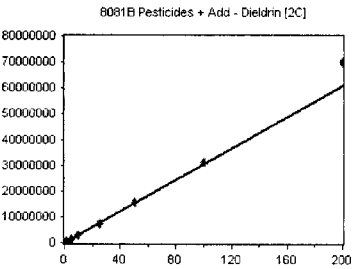
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	136848	2736.960	8.47	
9H23034-CALO	100	267534	2675.340	8.47	
9H23034-CALP	200	508983	2544.915	8.47	
9H23034-CALQ	500	1308994	2617.988	8.47	
9H23034-CALR	1000	2654886	2654.886	8.47	
9H23034-CALS	2000	5030917	2515.458	8.47	
<b>AVE RF</b>	<b>2624.258</b>	<b>RF RSD</b>	<b>3.16</b>	<b>AVE RT</b>	<b>8.47</b>

## Dieldrin [2C]

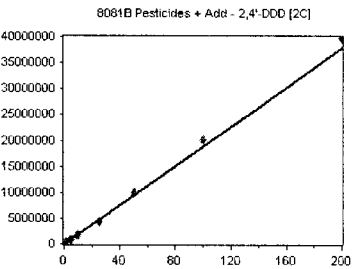
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	296684	296684.000	8.49	
9H23034-CAL2	2	583812	291906.000	8.49	
9H23034-CAL3	5	1462538	292507.600	8.49	
9H23034-CAL4	10	2898866	289886.600	8.49	
9H23034-CAL5	25	7333890	293355.600	8.49	
9H23034-CAL6	50	543411E+07	308682.200	8.49	
9H23034-CAL7	100	100196E+07	310019.600	8.49	
9H23034-CAL8	200	003178E+07	350158.900	8.49	
<b>AVE RF</b>	<b>304150.100</b>	<b>RF RSD</b>	<b>6.61</b>	<b>AVE RT</b>	<b>8.49</b>

## 2,4'-DDD [2C]

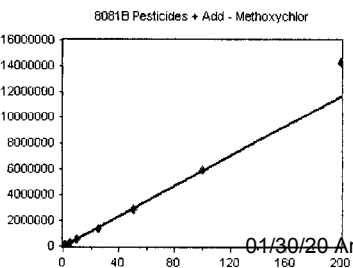
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	192040	192040.000	8.50	
9H23034-CALA	2	373596	186798.000	8.50	
9H23034-CALB	5	898697	179739.400	8.50	
9H23034-CALC	10	1778790	177879.000	8.50	
9H23034-CALD	25	4389185	175567.400	8.50	
9H23034-CALE	50	9924934	198498.700	8.50	
9H23034-CALF	100	011892E+07	201189.200	8.50	
9H23034-CALG	200	198393E+07	199196.500	8.49	
<b>AVE RF</b>	<b>188863.500</b>	<b>RF RSD</b>	<b>5.47</b>	<b>AVE RT</b>	<b>8.50</b>

## Methoxychlor

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	59659	59659.000	8.54	
9H23034-CAL2	2	111466	55733.000	8.54	
9H23034-CAL3	5	270388	54077.600	8.54	
9H23034-CAL4	10	561706	56170.600	8.54	
9H23034-CAL5	25	1390283	55611.320	8.54	
9H23034-CAL6	50	2860683	57213.660	8.54	
9H23034-CAL7	100	5877329	58773.290	8.54	
9H23034-CAL8	200	427114E+07	71355.700	8.54	
<b>AVE RF</b>	<b>55574.270</b>	<b>RF RSD</b>	<b>9.33</b>	<b>AVE RT</b>	<b>8.54</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

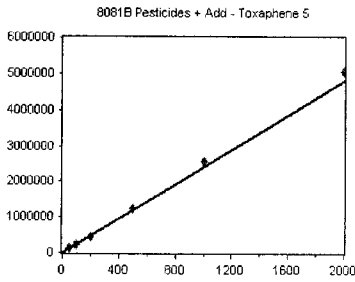
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Toxaphene 5

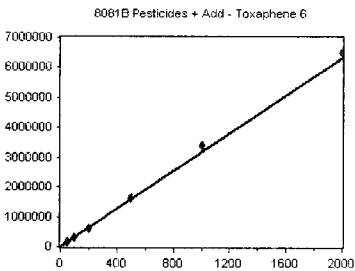
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	114720	2294.400	8.57	
9H23034-CALO	100	228960	2289.600	8.57	
9H23034-CALP	200	454431	2272.155	8.57	
9H23034-CALQ	500	1221560	2443.120	8.57	
9H23034-CALR	1000	2546293	2546.293	8.57	
9H23034-CALS	2000	5074570	2537.285	8.57	
<b>AVE RF</b>	<b>2397.142</b>	<b>RF RSD</b>	<b>5.33</b>	<b>AVE RT</b>	<b>8.57</b>

## Toxaphene 6

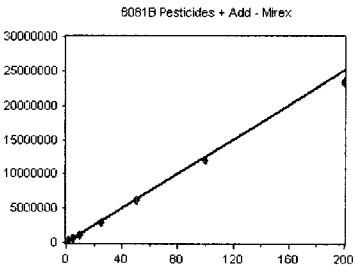
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	153138	3062.760	8.64	
9H23034-CALO	100	302577	3025.770	8.64	
9H23034-CALP	200	597991	2989.955	8.64	
9H23034-CALQ	500	1623402	3246.804	8.64	
9H23034-CALR	1000	3406737	3406.737	8.64	
9H23034-CALS	2000	6510950	3255.475	8.64	
<b>AVE RF</b>	<b>3164.584</b>	<b>RF RSD</b>	<b>5.17</b>	<b>AVE RT</b>	<b>8.64</b>

## Mirex

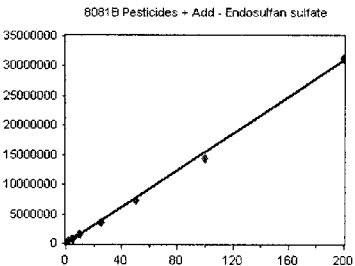
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	147356	147356.000	8.66	
9H23034-CALA	2	266770	133385.000	8.66	
9H23034-CALB	5	628618	125723.600	8.65	
9H23034-CALC	10	1196365	119636.500	8.65	
9H23034-CALD	25	2910818	116432.700	8.65	
9H23034-CALE	50	6218341	124366.800	8.65	
9H23034-CALF	100	196075E+07	119607.500	8.65	
9H23034-CALG	200	2.3285E+07	116425.000	8.65	
<b>AVE RF</b>	<b>125366.600</b>	<b>RF RSD</b>	<b>8.39</b>	<b>AVE RT</b>	<b>8.65</b>

## Endosulfan sulfate

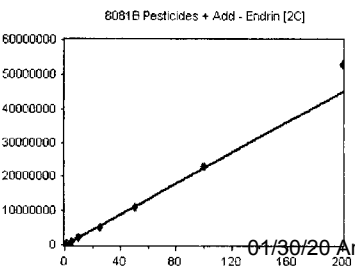
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	176097	176097.000	8.71	
9H23034-CAL2	2	322163	161081.500	8.71	
9H23034-CAL3	5	768798	153759.600	8.71	
9H23034-CAL4	10	1553540	155354.000	8.71	
9H23034-CAL5	25	3645411	145816.400	8.71	
9H23034-CAL6	50	7420576	148411.500	8.71	
9H23034-CAL7	100	436679E+07	143667.900	8.70	
9H23034-CAL8	200	112652E+07	155632.600	8.70	
<b>AVE RF</b>	<b>154977.600</b>	<b>RF RSD</b>	<b>6.64</b>	<b>AVE RT</b>	<b>8.71</b>

## Endrin [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	222882	222882.000	8.72	
9H23034-CAL2	2	424889	212444.500	8.72	
9H23034-CAL3	5	1092877	218575.400	8.72	
9H23034-CAL4	10	2244483	224448.300	8.72	
9H23034-CAL5	25	5325883	213035.300	8.72	
9H23034-CAL6	50	101538E+07	220307.600	8.72	
9H23034-CAL7	100	310241E+07	231024.100	8.72	
9H23034-CAL8	200	277958E+07	263897.900	8.72	
<b>AVE RF</b>	<b>225826.900</b>	<b>RF RSD</b>	<b>9.52</b>	<b>AVE RT</b>	<b>8.72</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

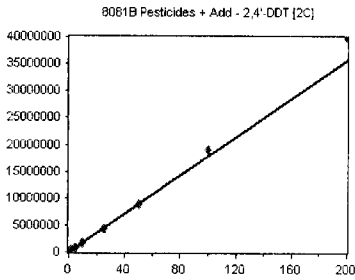
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## 2,4'-DDT [2C]

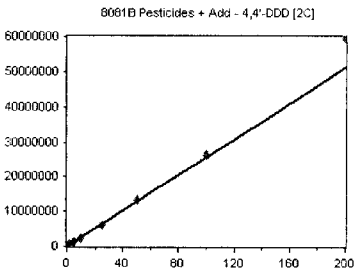
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	173338	173338.000	8.72	
9H23034-CALA	2	332170	166085.000	8.72	
9H23034-CALB	5	873074	174614.800	8.72	
9H23034-CALC	10	1702568	170256.800	8.72	
9H23034-CALD	25	4405554	176222.200	8.72	
9H23034-CALE	50	8810591	176211.800	8.72	
9H23034-CALF	100	899897E+07	189989.700	8.72	
9H23034-CALG	200	999923E+07	199996.200	8.72	
<b>AVE RF</b>	<b>178339.300</b>	<b>RF RSD</b>	<b>6.24</b>	<b>AVE RT</b>	<b>8.72</b>

## 4,4'-DDD [2C]

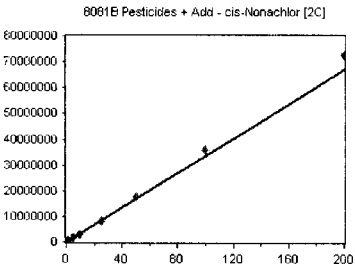
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	251549	251549.000	8.76	
9H23034-CAL2	2	488120	244060.000	8.76	
9H23034-CAL3	5	1208642	241728.400	8.76	
9H23034-CAL4	10	2425496	242549.600	8.76	
9H23034-CAL5	25	6146469	245858.800	8.76	
9H23034-CAL6	50	315945E+07	263189.000	8.76	
9H23034-CAL7	100	629748E+07	262974.800	8.76	
9H23034-CAL8	200	956027E+07	297801.400	8.76	
<b>AVE RF</b>	<b>256213.900</b>	<b>RF RSD</b>	<b>7.37</b>	<b>AVE RT</b>	<b>8.76</b>

## cis-Nonachlor [2C]

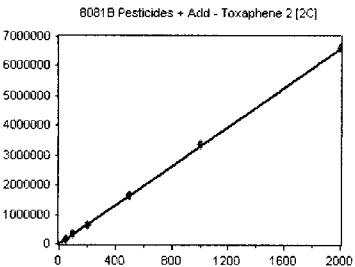
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	332745	332745.000	8.76	
9H23034-CALA	2	624783	312391.500	8.76	
9H23034-CALB	5	1587243	317448.600	8.76	
9H23034-CALC	10	3148054	314805.400	8.76	
9H23034-CALD	25	8219393	328775.700	8.76	
9H23034-CALE	50	772123E+07	354424.600	8.76	
9H23034-CALF	100	507264E+07	360726.400	8.76	
9H23034-CALG	200	245582E+07	362279.100	8.76	
<b>AVE RF</b>	<b>335449.500</b>	<b>RF RSD</b>	<b>6.23</b>	<b>AVE RT</b>	<b>8.76</b>

## Toxaphene 2 [2C]

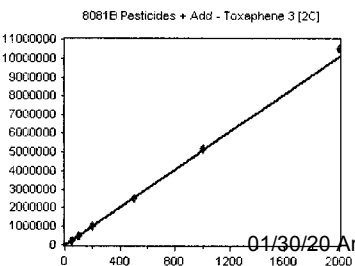
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	164706	3294.120	8.81	
9H23034-CALO	100	324070	3240.700	8.81	
9H23034-CALP	200	645322	3226.610	8.81	
9H23034-CALQ	500	1647741	3295.482	8.81	
9H23034-CALR	1000	3384036	3384.036	8.81	
9H23034-CALS	2000	6610397	3305.198	8.81	
<b>AVE RF</b>	<b>3291.024</b>	<b>RF RSD</b>	<b>1.70</b>	<b>AVE RT</b>	<b>8.81</b>

## Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	254833	5096.660	8.85	
9H23034-CALO	100	494430	4944.300	8.85	
9H23034-CALP	200	995555	4977.775	8.85	
9H23034-CALQ	500	2475022	4950.044	8.85	
9H23034-CALR	1000	5168269	5168.269	8.85	
9H23034-CALS	2000	054571E+07	5272.855	8.85	
<b>AVE RF</b>	<b>5066.317</b>	<b>RF RSD</b>	<b>2.85</b>	<b>AVE RT</b>	<b>8.85</b>

# Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

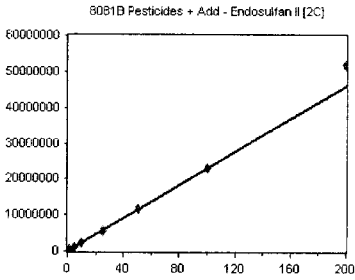
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

## Endosulfan II [2C]

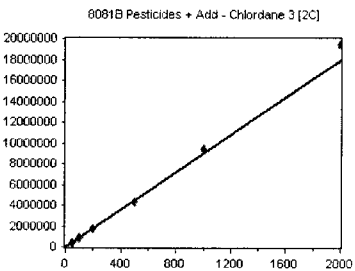
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	232156	232156.000	8.87	
9H23034-CAL2	2	462256	231128.000	8.86	
9H23034-CAL3	5	1096359	219271.800	8.87	
9H23034-CAL4	10	2243610	224361.000	8.86	
9H23034-CAL5	25	5447602	217904.100	8.86	
9H23034-CAL6	50	153453E+07	230690.600	8.86	
9H23034-CAL7	100	301637E+07	230163.700	8.86	
9H23034-CAL8	200	183489E+07	259174.400	8.86	
<b>AVE RF</b>	<b>230606.200</b>	<b>RF RSD</b>	<b>5.55</b>	<b>AVE RT</b>	<b>8.86</b>

## Chlordane 3 [2C]

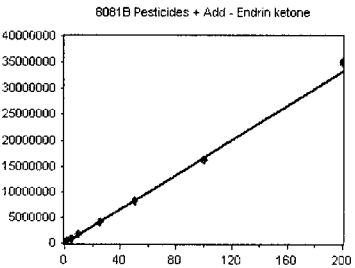
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALH	50	439020	8780.400	8.90	
9H23034-CALI	100	874465	8744.650	8.90	
9H23034-CALJ	200	1731727	8658.635	8.90	
9H23034-CALK	500	4271709	8543.418	8.90	
9H23034-CALL	1000	9358900	9358.900	8.90	
9H23034-CALM	2000	941852E+07	9709.260	8.90	
<b>AVE RF</b>	<b>8965.877</b>	<b>RF RSD</b>	<b>5.14</b>	<b>AVE RT</b>	<b>8.90</b>

## Endrin ketone

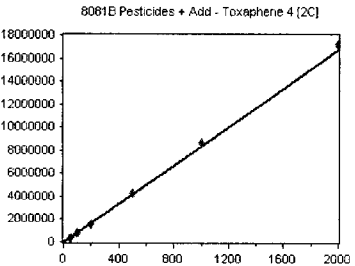
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	177552	177552.000	8.90	
9H23034-CAL2	2	331269	165634.500	8.90	
9H23034-CAL3	5	811384	162276.800	8.90	
9H23034-CAL4	10	1664380	166438.000	8.90	
9H23034-CAL5	25	4008958	160358.300	8.90	
9H23034-CAL6	50	8190707	163814.100	8.90	
9H23034-CAL7	100	525194E+07	162519.400	8.90	
9H23034-CAL8	200	509472E+07	175473.600	8.90	
<b>AVE RF</b>	<b>166758.300</b>	<b>RF RSD</b>	<b>3.80</b>	<b>AVE RT</b>	<b>8.90</b>

## Toxaphene 4 [2C]

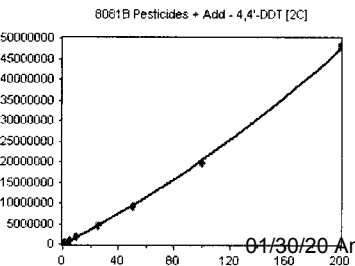
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CALN	50	416348	8326.960	8.92	
9H23034-CALO	100	811948	8119.480	8.92	
9H23034-CALP	200	1580436	7902.180	8.91	
9H23034-CALQ	500	4252640	8505.280	8.92	
9H23034-CALR	1000	8650068	8650.068	8.92	
9H23034-CALS	2000	719004E+07	8595.020	8.91	
<b>AVE RF</b>	<b>8349.831</b>	<b>RF RSD</b>	<b>3.51</b>	<b>AVE RT</b>	<b>8.91</b>

## 4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	179700	179700.000	8.99	
9H23034-CAL2	2	341782	170891.000	8.99	
9H23034-CAL3	5	873653	174730.600	8.99	
9H23034-CAL4	10	1841119	184111.900	8.99	
9H23034-CAL5	25	4480388	179215.500	8.98	
9H23034-CAL6	50	9285492	185709.800	8.99	
9H23034-CAL7	100	.97895E+07	197895.000	8.98	
9H23034-CAL8	200	820344E+07	241017.200	8.98	
<b>AVE RF</b>	<b>189488.900</b>	<b>RF RSD</b>	<b>1.188</b>	<b>AVE RT</b>	<b>8.99</b>

## Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

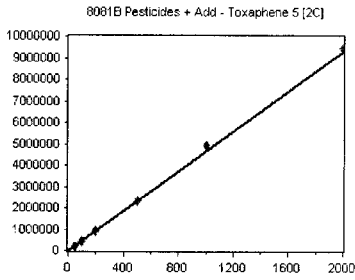
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

### Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**

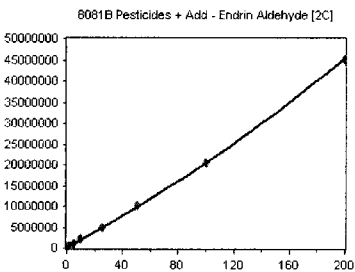


Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	233185	4663.700	9.09
9H23034-CALO	100	452209	4522.090	9.09
9H23034-CALP	200	895397	4476.985	9.09
9H23034-CALQ	500	2340668	4681.336	9.09
9H23034-CALR	1000	4900430	4900.430	9.09
9H23034-CALS	2000	9435236	4717.618	9.09

**AVE RF 4660.360      RF RSD 3.24      AVE RT 9.09**

### Endrin Aldehyde [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

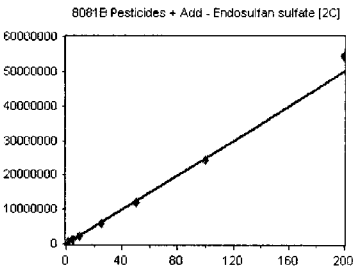


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	348624	348624.000	9.10
9H23034-CAL2	2	477694	238847.000	9.10
9H23034-CAL3	5	1045869	209173.800	9.10
9H23034-CAL4	10	2125028	212502.800	9.10
9H23034-CAL5	25	4848504	193940.200	9.10
9H23034-CAL6	50	020903E+07	204180.600	9.10
9H23034-CAL7	100	050274E+07	205027.400	9.10
9H23034-CAL8	200	508454E+07	225422.700	9.10

**AVE RF 229714.800      RF RSD 21.77      AVE RT 9.10**

### Endosulfan sulfate [2C]

Curve Fit: **AVERAGE RF**

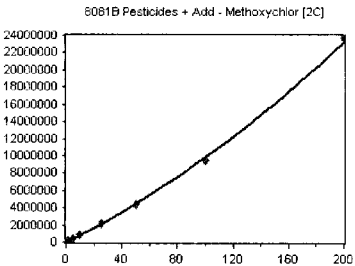


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	265797	265797.000	9.29
9H23034-CAL2	2	498767	249383.500	9.29
9H23034-CAL3	5	1175908	235181.600	9.29
9H23034-CAL4	10	2424584	242458.400	9.29
9H23034-CAL5	25	5978906	239156.200	9.29
9H23034-CAL6	50	214929E+07	242985.800	9.29
9H23034-CAL7	100	447732E+07	244773.200	9.29
9H23034-CAL8	200	459279E+07	272964.000	9.29

**AVE RF 249087.500      RF RSD 5.35      AVE RT 9.29**

### Methoxychlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

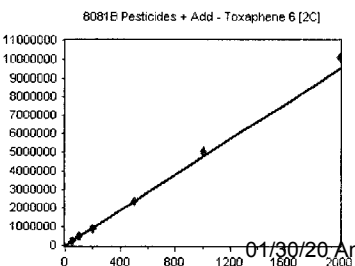


Standard	Concentration	Response	Response Factor	RT
9H23034-CAL1	1	95155	95155.000	9.47
9H23034-CAL2	2	178074	89037.000	9.47
9H23034-CAL3	5	413802	82760.400	9.47
9H23034-CAL4	10	883069	88306.900	9.47
9H23034-CAL5	25	2166659	86666.360	9.46
9H23034-CAL6	50	4346199	86923.980	9.46
9H23034-CAL7	100	9444987	94449.870	9.46
9H23034-CAL8	200	1.37141E+07	118570.500	9.46

**AVE RF 92733.750      RF RSD 12.09      AVE RT 9.46**

### Toxaphene 6 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
9H23034-CALN	50	230922	4618.440	9.47
9H23034-CALO	100	452485	4524.850	9.47
9H23034-CALP	200	905244	4526.220	9.47
9H23034-CALQ	500	2369795	4739.590	9.47
9H23034-CALR	1000	5046645	5046.645	9.47
9H23034-CALS	2000	009095E+07	5045.475	9.47

**AVE RF 4752019.4      RF RSD 5.11      AVE RT 9.47**



## Element Calibration Review Sheet

Calibration ID: **A9H2608**

Instrument: **DUALECD5**

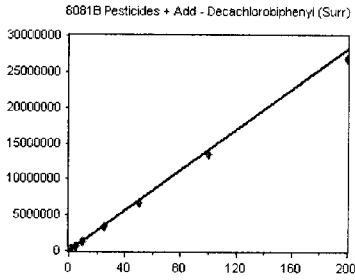
Calibration Date: **08/26/2019**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD5\_QUANTPEST\_19082**

### Decachlorobiphenyl (Surr)

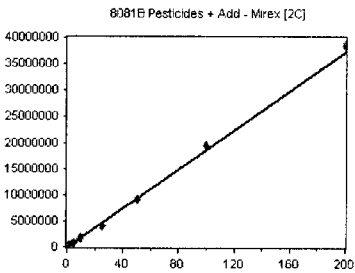
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	163865	163865.000	9.59	
9H23034-CAL2	2	309904	154952.000	9.59	
9H23034-CAL3	5	701050	140210.000	9.59	
9H23034-CAL4	10	1335468	133546.800	9.59	
9H23034-CAL5	25	3342634	133705.400	9.59	
9H23034-CAL6	50	6678990	133579.800	9.59	
9H23034-CAL7	100	.34054E+07	134054.000	9.59	
9H23034-CAL8	200	697523E+07	134876.200	9.59	
<b>AVE RF</b>	<b>141098.600</b>	<b>RF RSD</b>	<b>8.33</b>	<b>AVE RT</b>	<b>9.59</b>

### Mirex [2C]

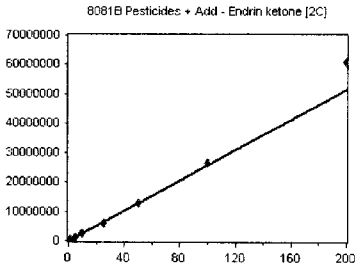
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL9	1	209783	209783.000	9.68	
9H23034-CALA	2	388199	194099.500	9.68	
9H23034-CALB	5	895523	179104.600	9.68	
9H23034-CALC	10	1722960	172296.000	9.68	
9H23034-CALD	25	4138115	165524.600	9.68	
9H23034-CALE	50	9100959	182019.200	9.68	
9H23034-CALF	100	.93632E+07	193632.000	9.68	
9H23034-CALG	200	842553E+07	192127.600	9.68	
<b>AVE RF</b>	<b>186073.300</b>	<b>RF RSD</b>	<b>7.59</b>	<b>AVE RT</b>	<b>9.68</b>

### Endrin ketone [2C]

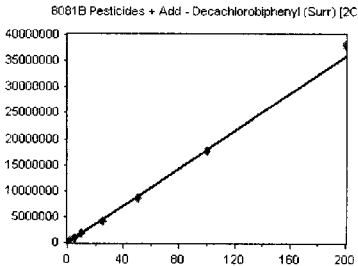
Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	255763	255763.000	9.69	
9H23034-CAL2	2	493110	246555.000	9.69	
9H23034-CAL3	5	1205004	241000.800	9.69	
9H23034-CAL4	10	2496985	249698.500	9.69	
9H23034-CAL5	25	5893691	235747.600	9.69	
9H23034-CAL6	50	295457E+07	259091.400	9.69	
9H23034-CAL7	100	563656E+07	266365.600	9.69	
9H23034-CAL8	200	086138E+07	304306.900	9.69	
<b>AVE RF</b>	<b>257316.100</b>	<b>RF RSD</b>	<b>8.31</b>	<b>AVE RT</b>	<b>9.69</b>

### Decachlorobiphenyl (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT	
9H23034-CAL1	1	191572	191572.000	10.54	
9H23034-CAL2	2	390006	195003.000	10.54	
9H23034-CAL3	5	870921	174184.200	10.54	
9H23034-CAL4	10	1678728	167872.800	10.54	
9H23034-CAL5	25	4163229	166529.200	10.54	
9H23034-CAL6	50	8730692	174613.800	10.54	
9H23034-CAL7	100	778407E+07	177840.700	10.54	
9H23034-CAL8	200	809778E+07	190488.900	10.54	
<b>AVE RF</b>	<b>179763.100</b>	<b>RF RSD</b>	<b>6.18</b>	<b>AVE RT</b>	<b>10.54</b>

# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

## 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 Pesticides + Adds  
608.3 Additional - DEVELOPMENT  
608.3 Chlordane - DEVELOPMENT  
608.3 PCBs - DEVELOPMENT  
608.3 Pesticides - DEVELOPMENT  
608.3 Pesticides + Adds - DEVELOPMENT  
608.3 Toxaphene - DEVELOPMENT  
8081B Pesticides  
8081B 2,4+4,4-DDx Only (+Add)  
8081B Chlordane  
8081B DDT Only  
8081B Pesticides + Add  
8081B RSET FW Sed (+Add) (2016)  
8081B RSET Sediment List (+Add)  
8081B RSET Sediment Marine (2016) (+Add)  
8081B Toxaphene

# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

## INSTRUMENT SEQUENCE LOG

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>STDID</u>	<u>ISTD_ID</u>	<u>Analyzed</u>
9H23034-ICB1	Initial Cal Blank	Water	A19H348		8/23/2019 1:33:00PM
9H23034-CAL1	Cal Standard	Water	A19E245	"	8/23/2019 1:51:00PM
9H23034-CAL2	Cal Standard	Water	A19E246	"	8/23/2019 2:08:00PM
9H23034-CAL3	Cal Standard	Water	A19E247	"	8/23/2019 2:25:00PM
9H23034-CAL4	Cal Standard	Water	A19E249	"	8/23/2019 2:42:00PM
9H23034-CAL5	Cal Standard	Water	A19E250	"	8/23/2019 3:00:00PM
9H23034-CAL6	Cal Standard	Water	A19H383	"	8/23/2019 3:17:00PM
9H23034-CAL7	Cal Standard	Water	A19H384	"	8/23/2019 3:34:00PM
9H23034-CAL8	Cal Standard	Water	A19E244	"	8/23/2019 3:52:00PM
9H23034-ICV1	Initial Cal Check	Water	A19E106	"	8/23/2019 4:26:00PM
9H23034-CAL9	Cal Standard	Water	A19E272	"	8/23/2019 4:44:00PM
9H23034-CALA	Cal Standard	Water	A19E273	"	8/23/2019 5:01:00PM
9H23034-CALB	Cal Standard	Water	A19E274	"	8/23/2019 5:18:00PM
9H23034-CALC	Cal Standard	Water	A19E275	"	8/23/2019 5:35:00PM
9H23034-CALD	Cal Standard	Water	A19E276	"	8/23/2019 5:53:00PM
9H23034-CALE	Cal Standard	Water	A19E154	"	8/23/2019 6:10:00PM
9H23034-CALF	Cal Standard	Water	A19E155	"	8/23/2019 6:27:00PM
9H23034-CALG	Cal Standard	Water	A19E271	"	8/23/2019 6:45:00PM
9H23034-ICV2	Initial Cal Check	Water	A19E043	"	8/23/2019 7:19:00PM
9H23034-CALH	Cal Standard	Water	A19F232	"	8/23/2019 7:36:00PM
9H23034-CALI	Cal Standard	Water	A19F233	"	8/23/2019 7:54:00PM
9H23034-CALJ	Cal Standard	Water	A19F234	"	8/23/2019 8:11:00PM
9H23034-CALK	Cal Standard	Water	A19F235	"	8/23/2019 8:28:00PM
9H23034-CALL	Cal Standard	Water	A19F236	"	8/23/2019 8:45:00PM
9H23034-CALM	Cal Standard	Water	A19F231	"	8/23/2019 9:02:00PM
9H23034-ICV3	Initial Cal Check	Water	A19E108	"	8/23/2019 9:37:00PM
9H23034-CALN	Cal Standard	Water	A19D122	"	8/23/2019 9:54:00PM
9H23034-CALO	Cal Standard	Water	A19D123	"	8/23/2019 10:11:00PM
9H23034-CALP	Cal Standard	Water	A19D124	"	8/23/2019 10:28:00PM
9H23034-CALQ	Cal Standard	Water	A19D125	"	8/23/2019 10:45:00PM
9H23034-CALR	Cal Standard	Water	A19D126	"	8/23/2019 11:03:00PM
9H23034-CALS	Cal Standard	Water	A19D121	"	8/23/2019 11:20:00PM
9H23034-ICV4	Initial Cal Check	Water	A19D127	"	8/23/2019 11:54:00PM

## CALIBRATION STANDARD RECOVERIES

Calibration: A9H2608

Instrument: DualECD5F

1311/8081B TCLP Pest Reg L

Sequence: 9H23034

Matrix: Water

SampleID	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL1					
9H23034-CAL2					
9H23034-CAL3					
9H23034-CAL4					
9H23034-CAL5					

# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 9H23034

9H23034-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
9H23034-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

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: 9H23034

## 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: **A9H2608**

Instrument: **DualECD5F**

608 Pesticides (SW) Full List

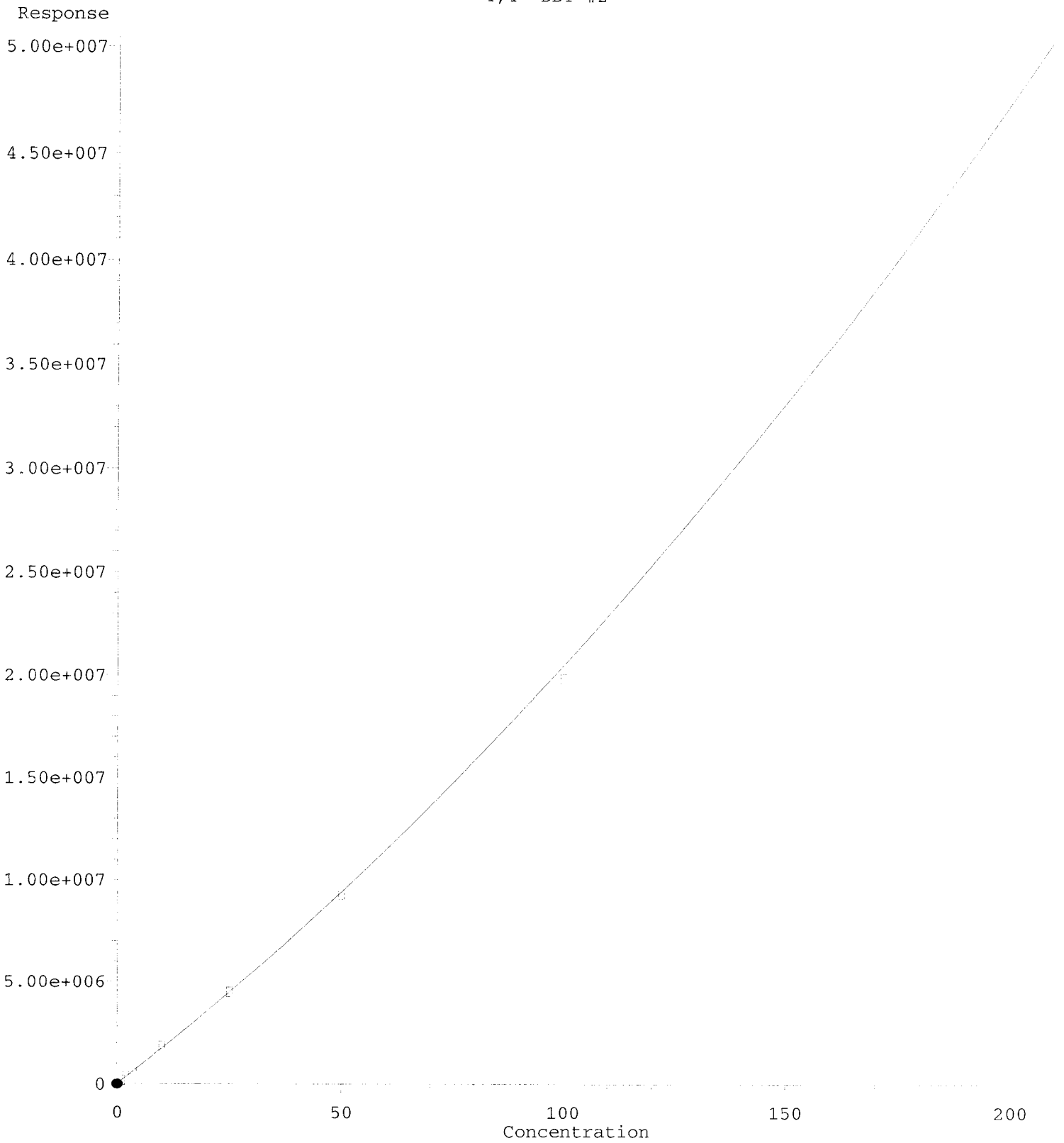
Sequence: **9H23034**

Matrix: **Water**

9H23034-ICV1	Inst. MRL	ICV Level	Result	%Rec.	Qual
9H23034-ICV2	Inst. MRL	ICV Level	Result	%Rec.	Qual
9H23034-ICV3	Inst. MRL	ICV Level	Result	%Rec.	Qual
9H23034-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.

4,4'-DDT #2

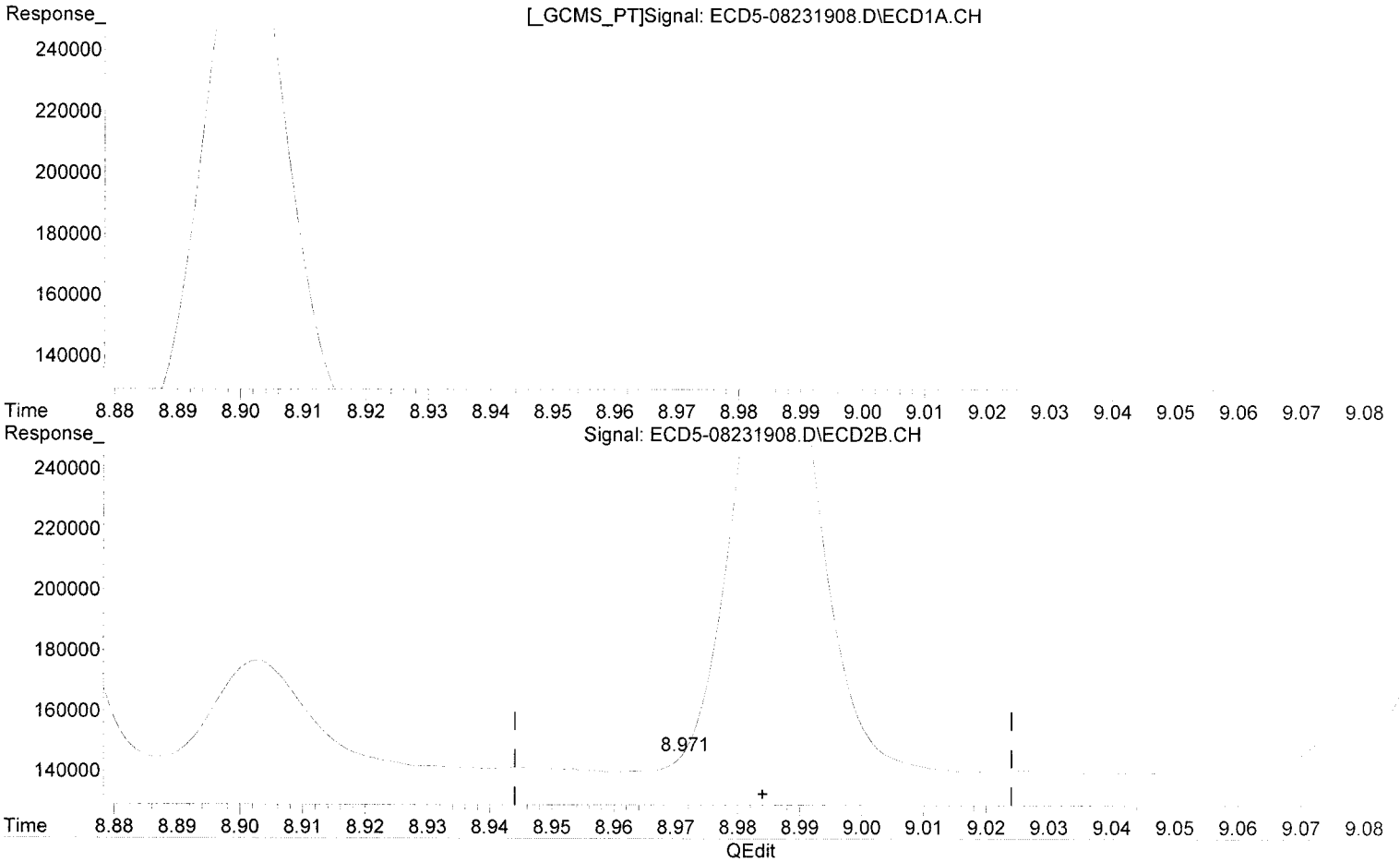


R = 3.30e+002 A\*A + 1.71e+005 A + 6.57e+003  
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)  
Method Name: R:\methods\ECD5\_QUANTIFEST\_190623.M  
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:51  
Operator : MJB  
Sample : 9H23034-CAL1  
Misc : A19E245, AB 1 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:59:55 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

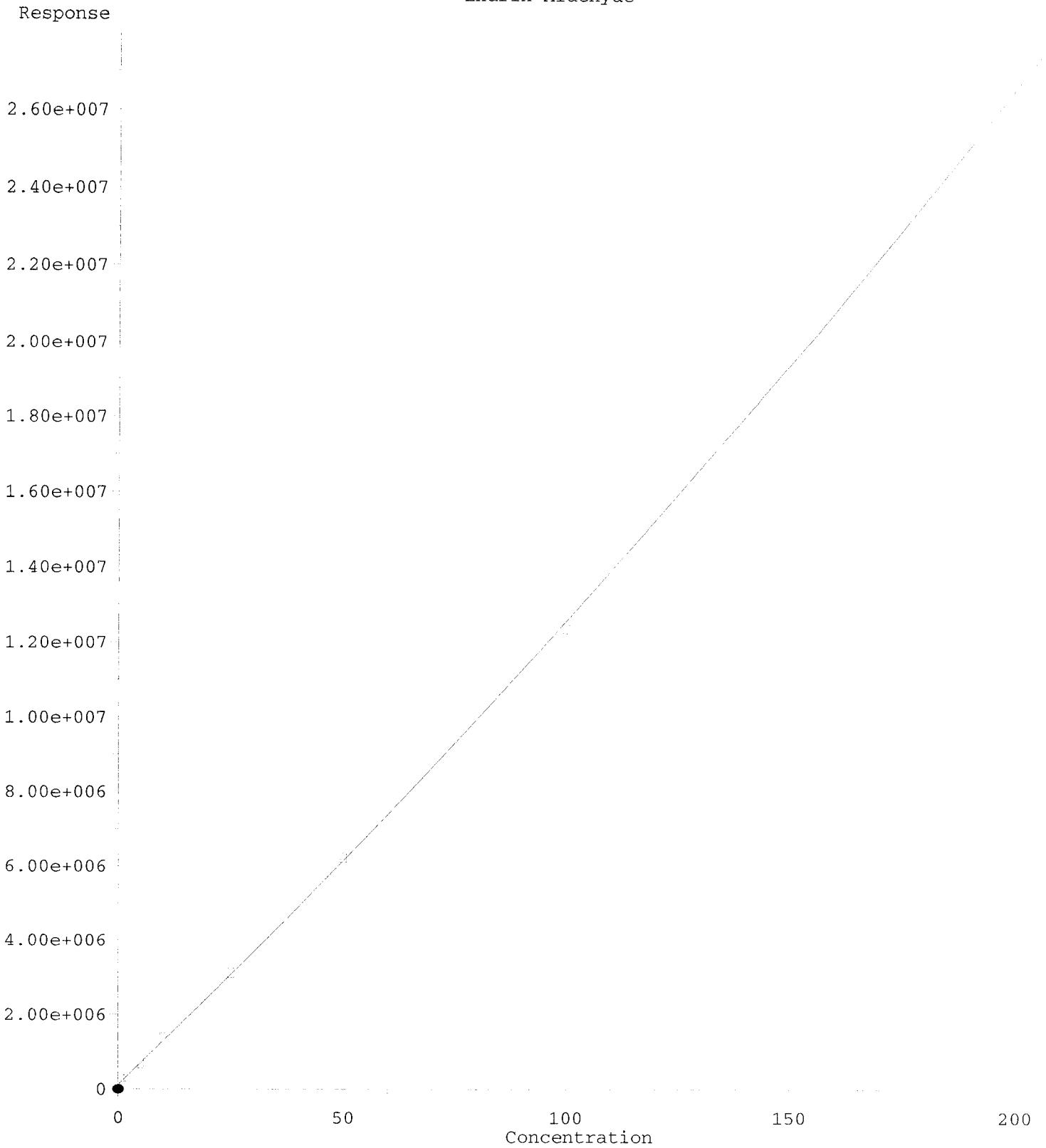


(17) 4,4'-DDT  
8.205min 0.953 ng/mL  
response 113897

*MJB 8/26/19*

(17) 4,4'-DDT #2  
8.971min -0.006 ng/mL (m)  
response 5621

Endrin Aldehyde



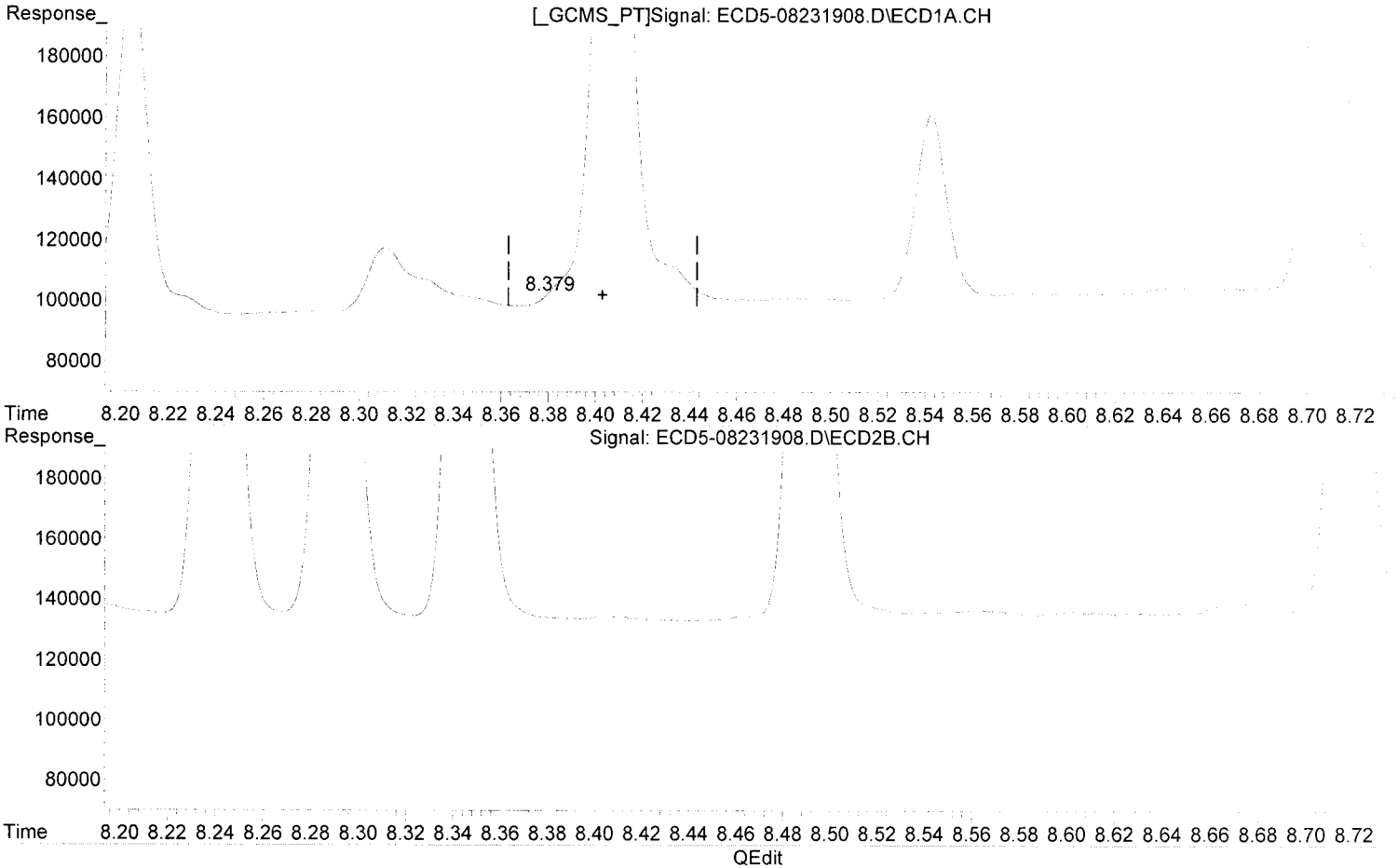
R = 8.05e+001 A\*A + 1.16e+005 A + 1.19e+005  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: R:\methods\ECD5\_QUANTPEST\_190823.M  
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019  
01/30/20 Anchor QEA LLC Gasco Prep DG 2019 - 4a-b. DOC-CAP Testing Cores Page 706 of 1075



Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:51  
Operator : MJB  
Sample : 9H23034-CAL1  
Misc : A19E245, AB 1 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:59:55 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

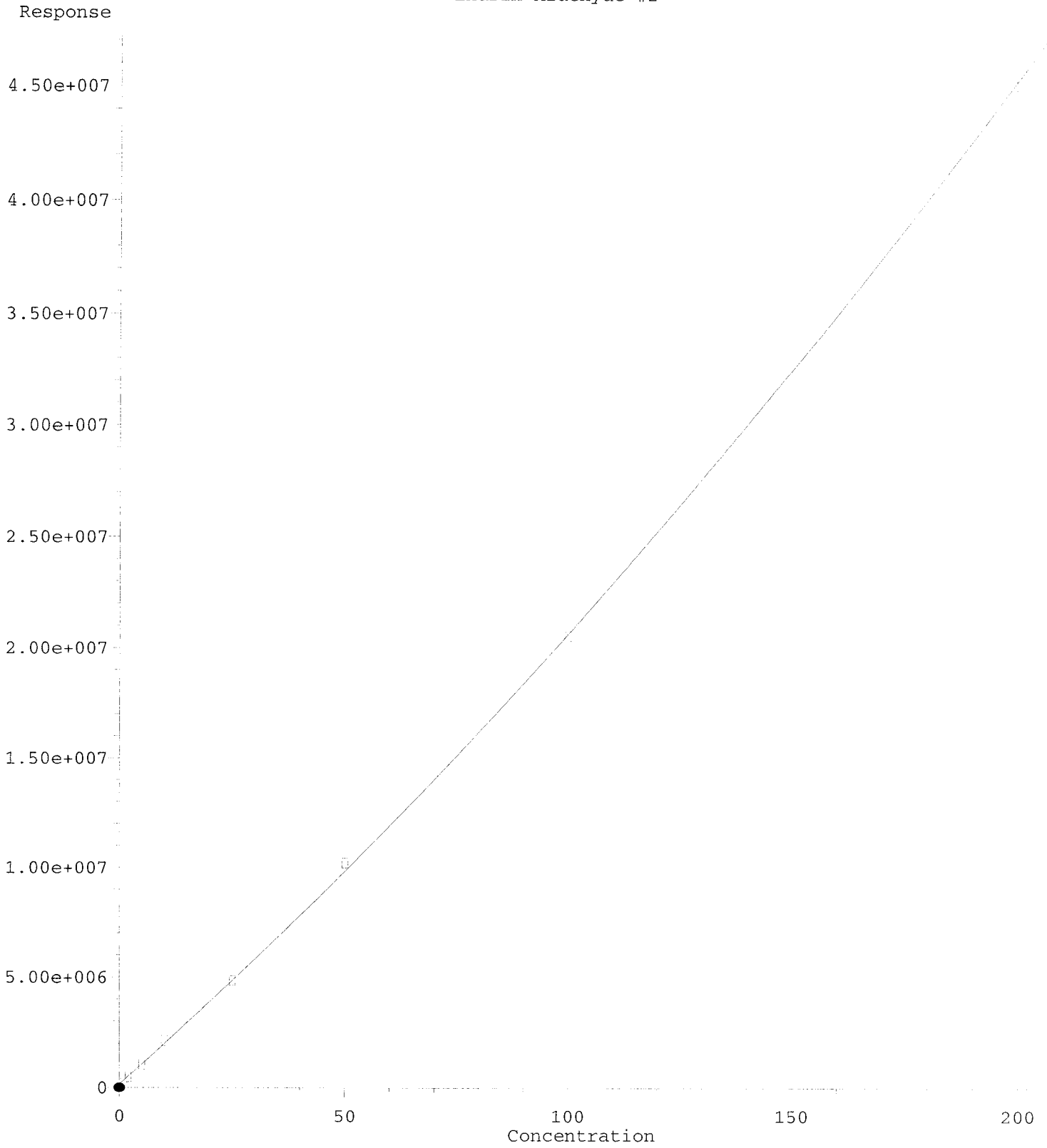


(18) Endrin Aldehyde  
8.379min -0.993 ng/mL(m)  
response 3543

MJB 8/26/19

(18) Endrin Aldehyde #2  
9.101min 1.058 ng/mL  
response 348624

Endrin Aldehyde #2

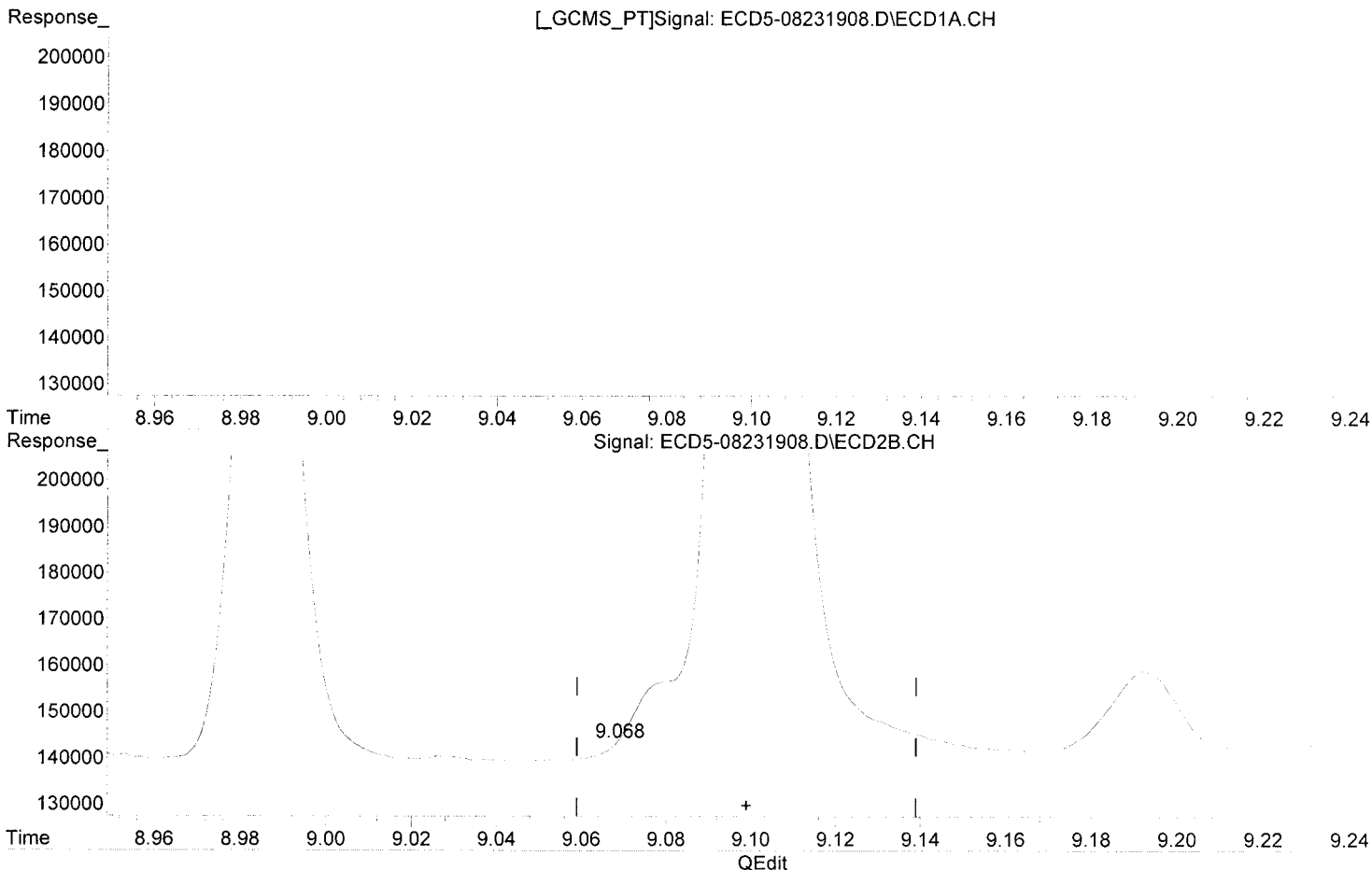


R = 2.18e+002 A\*A + 1.83e+005 A + 1.55e+005  
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)  
Method Name: R:\methods\BUD5\_QUANTIFES1\_190923.M  
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:51  
Operator : MJB  
Sample : 9H23034-CAL1  
Misc : A19E245, AB 1 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:59:55 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(18) Endrin Aldehyde  
8.379min -0.993 ng/mL m  
response 3543

*MJB 8/26/19*

(18) Endrin Aldehyde #2  
9.068min -0.831 ng/mL (m)  
response 3374

Methoxychlor #2

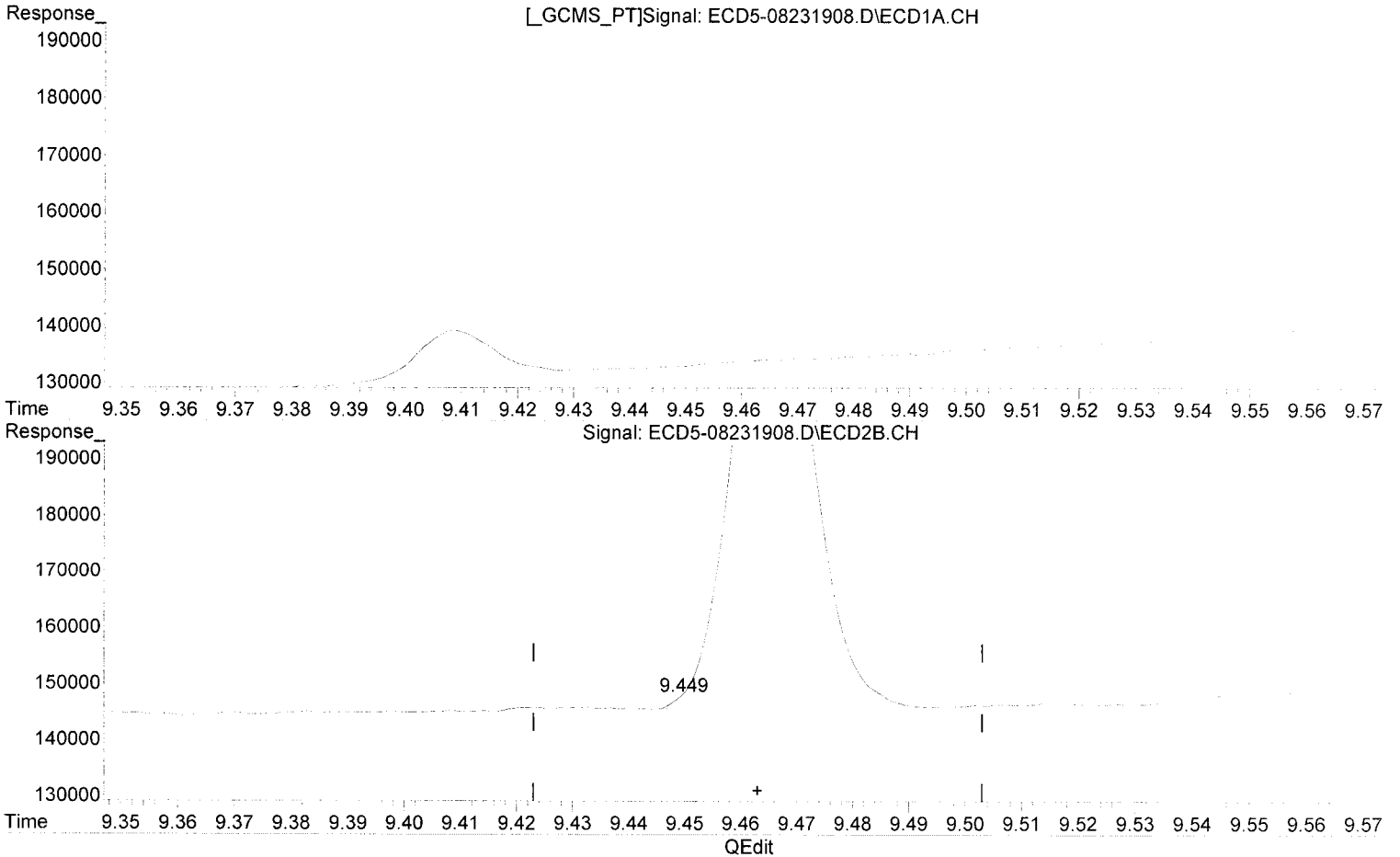


R = 1.78e+002 A\*A + 8.05e+004 A + 1.50e+004  
Coef of Det (r<sup>2</sup>) = 0.999 Curve Fit: Quadratic w(1/a<sup>2</sup>)  
Method Name: R:\methods\ECD5\_QUANTPEST\_190823.M  
Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:51  
Operator : MJB  
Sample : 9H23034-CAL1  
Misc : A19E245, AB 1 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:59:55 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(20) Methoxychlor  
8.543min 1.019 ng/mL  
response 59659

*MJB*  
*8/26/19*

(20) Methoxychlor #2  
9.449min -0.161 ng/mL (m)  
response 2070

trans-Nonachlor



$R = -2.05e+000 A^2 + 1.79e+005 A + 5.67e+004$

Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Quadratic w( $1/a^2$ )

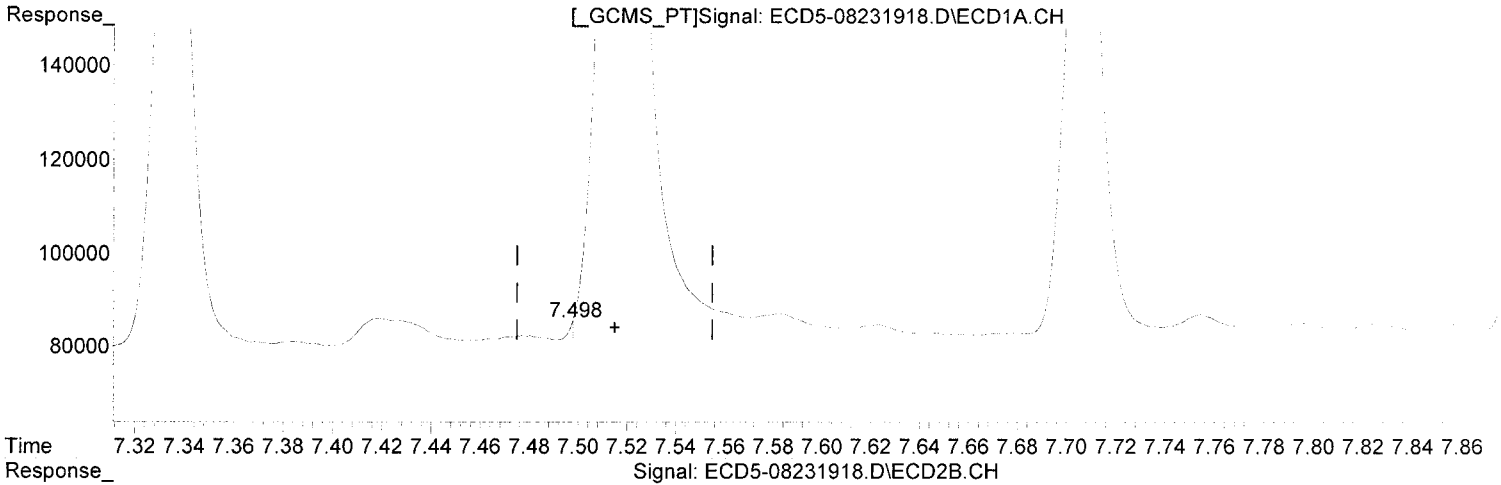
Method Name: R:\methods\BCL5\_QUANT\ESI\_15023.M 01/30/20 Anchor OEA H.G. Case Pre B.DG 2019 - 4a-b. DOC-CAP Testing Cores Page 712 of 1075

Calibration Table Last Updated: Mon Aug 26 11:58:51 2019

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231918.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 16:44  
Operator : MJB  
Sample : 9H23034-CAL9  
Misc : A19E272, 9-42 1 ppb  
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:02:15 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(27) trans-Nonachlor

7.498min 87346.675 ng/mL(m)  
response 4808

*Qedit*

*MJB 8/26/19*

(27) trans-Nonachlor #2

8.195min 1.015 ng/mL  
response 306202

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231907.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 13:33  
 Operator : MJB  
 Sample : 9H23034-ICB1  
 Misc : A19H348  
 ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:02:44 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

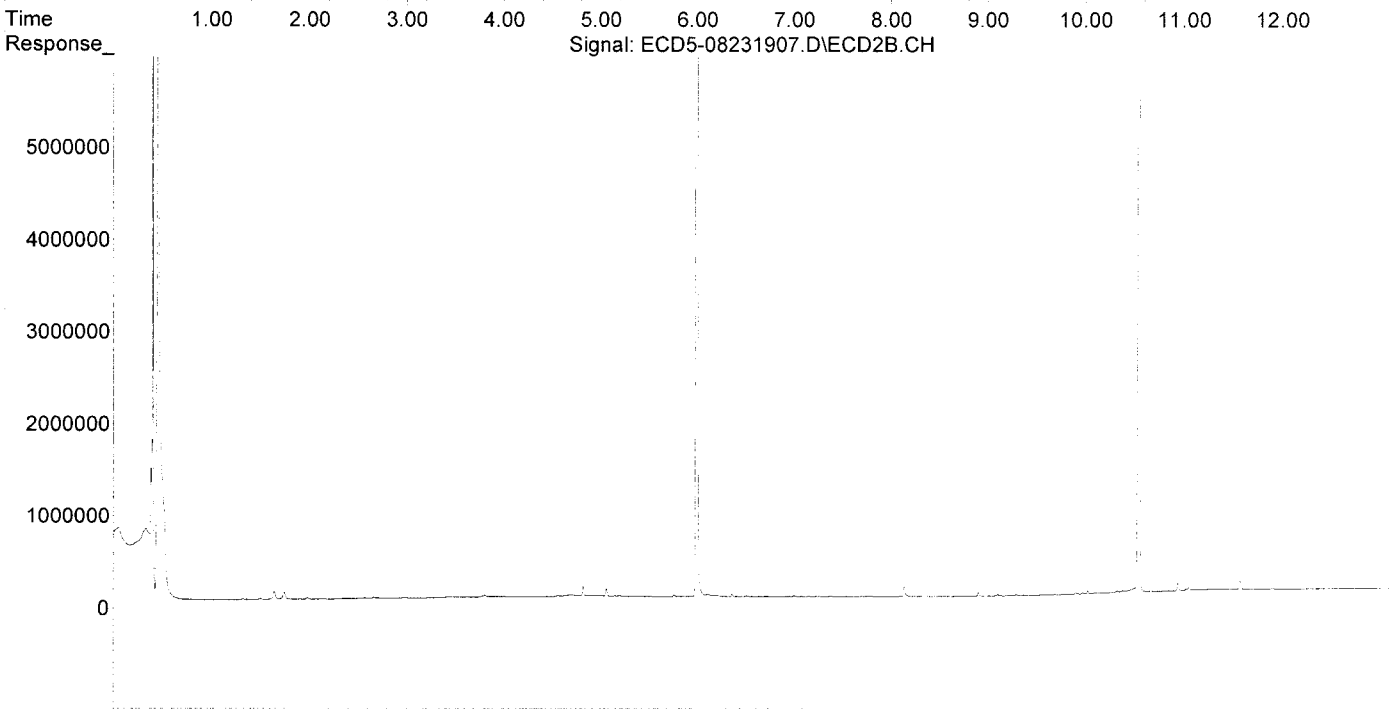
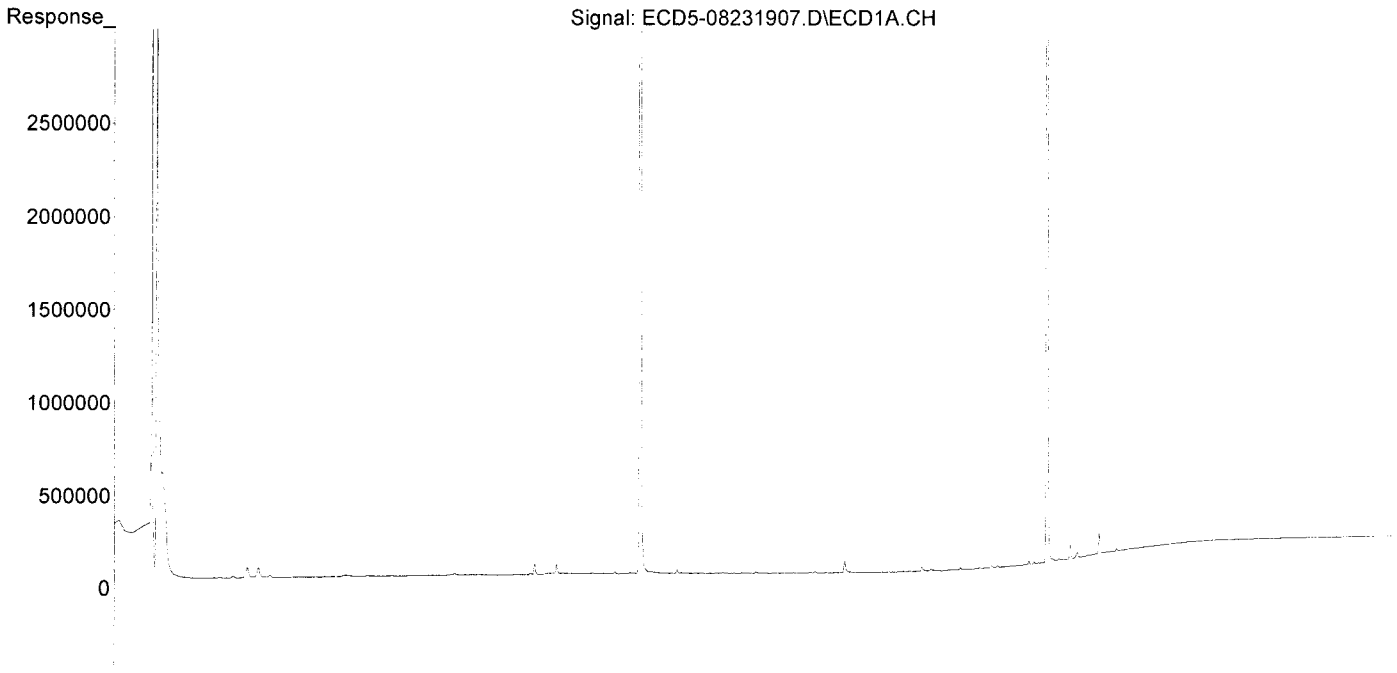
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.398	5.992	15096765	27637017	90.958	94.206
22) S DCBP (S)	9.594	10.543	12462090	16576085	88.322	92.211
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.253f	0.000	6973	0	0.035	N.D. #
4) b-BHC	0.000	7.003f	0	10802	N.D.	0.068 #
5) Heptachlor	6.596f	0.000	8260	0	0.046	N.D. #
6) d-BHC	6.451	7.234	5541	7061	0.028	0.020
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.318	0.000	2356	0	0.013	N.D. #
9) trans-Chl...	0.000	8.140	0	104395	N.D.	0.333 #
10) cis-Chlor...	7.514	0.000	58774	0	0.323	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	8.119	0.000	3735	0	0.026	N.D. #
17) 4,4'-DDT	8.185	0.000	4049	0	0.034	N.D. #
18) Endrin Al...	8.408	9.102	14375	14948	BelowCal	BelowCal
19) Endosulfa...	8.709	9.292	12123	14809	0.078	0.059
20) Methoxychlor	8.542	0.000	4975	0	0.085	N.D. #
21) Endrin Ke...	8.903	9.690	4830	7943	0.029	0.031
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.779	0.000	21656	0	0.123	N.D. #
25) Oxychlorane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	7.318	8.140	2356	104395	0.018	0.492 #
27) trans-Non...	7.514	0.000	58774	0	0.012	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.652	9.690	4544	7943	0.036	0.043
32) Chlordane...	0.000	8.140	0	104395	N.D.	2.885 #
33) Chlordane...	7.514	0.000	58774	0	2.345	N.D. #
34) Chlordane...	0.000	8.904	0	37260	N.D.	4.156 #
35) Chlordane...	3.445	0.000	6677	0	NoCal	N.D.
36) Toxaphene...	7.514	0.000	58774	0	65.621	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.119	0.000	3735	0	1.109	N.D. #
39) Toxaphene...	8.312f	8.904	24186	37260	7.464	4.462 #
40) Toxaphene...	8.542f	9.102	4975	14948	2.075	3.207 #
41) Toxaphene...	8.652	0.000	4544	0	1.436	N.D. #
42) Toxaphene...	3.445	0.000	6677	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231907.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:33  
Operator : MJB  
Sample : 9H23034-ICB1  
Misc : A19H348  
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:02:44 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231916.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 16:09  
 Operator : MJB  
 Sample : 9H23034-IBL1  
 Misc : Instrument Blank  
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:02:50 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*Clean*

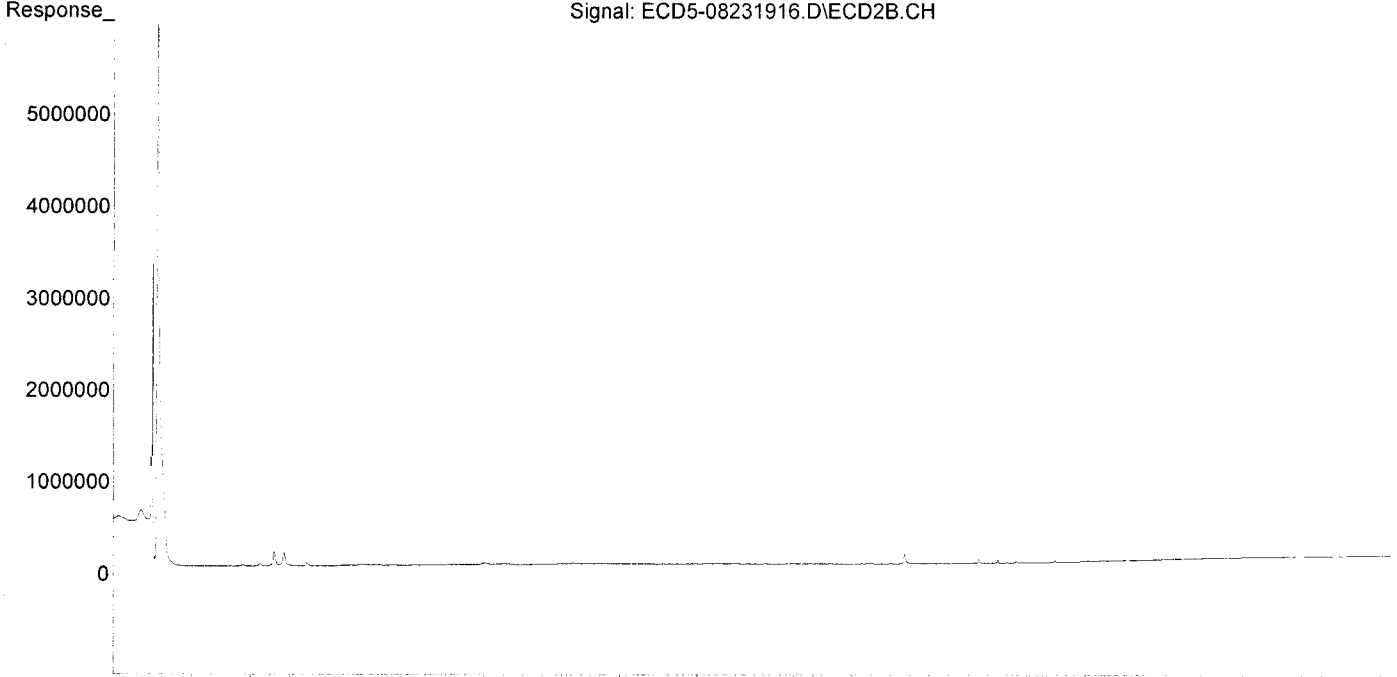
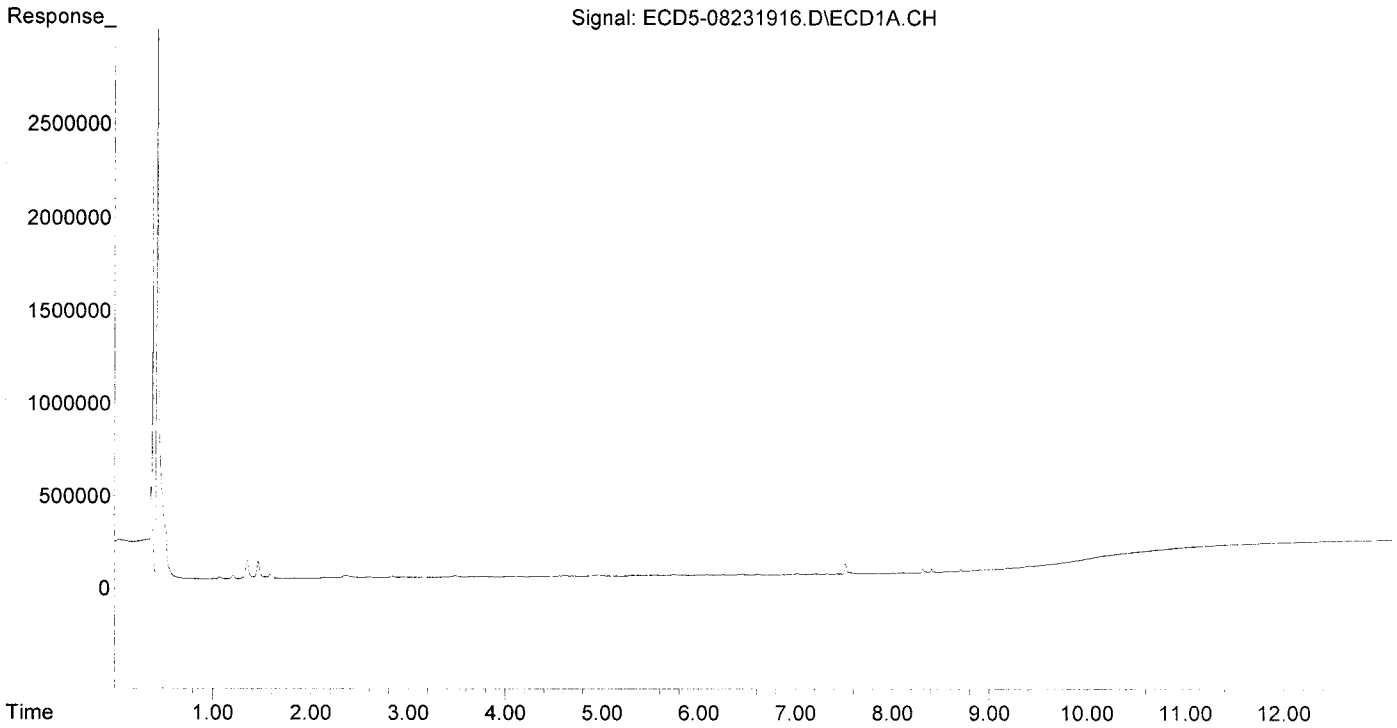
*MJB 8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
<b>System Monitoring Compounds</b>						
1) S TCMX (S)	0.000	5.984	0	7755	N.D.	0.026 #
22) S DCBP (S)	9.595	10.540	5550	5660	0.039	0.031
<b>Target Compounds</b>						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.249f	0.000	4370	0	0.022	N.D. #
4) b-BHC	0.000	7.003f	0	7432	N.D.	0.047 #
5) Heptachlor	6.602f	0.000	4945	0	0.027	N.D. #
6) d-BHC	6.450	7.233	6336	9226	0.032	0.026
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	0.000	8.142	0	99412	N.D.	0.317 #
10) cis-Chlor...	7.516	0.000	56525	0	0.310	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	8.007	0.000	1177	0	0.007	N.D. #
16) Endosulfa...	8.117	8.865	3391	6280	0.024	0.027
17) 4,4'-DDT	8.226f	0.000	1460	0	0.012	N.D. #
18) Endrin Al...	8.407	9.100	21929	28697	BelowCal	BelowCal
19) Endosulfa...	8.707	9.291	12087	18257	0.078	0.073
20) Methoxychlor	8.544	0.000	4198	0	0.072	N.D. #
21) Endrin Ke...	8.901	9.686	4385	18734	0.026	0.073 #
23) Hexachlor...	0.000	3.689	0	2782	N.D.	0.007 #
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	0.000	8.142	0	99412	N.D. <i>Q-ent</i>	0.469 #
27) trans-Non...	7.516	0.000	56525	0	<del>0.7346.385</del>	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	8.007f	0.000	1177	0	0.006	N.D. #
31) Mirex	0.000	9.686	0	18734	N.D.	0.101 #
32) Chlordane...	0.000	8.142	0	99412	N.D.	2.747 #
33) Chlordane...	7.516	0.000	56525	0	2.255	N.D. #
34) Chlordane...	8.065	8.904	2775	39801	0.480	4.439 #
35) Chlordane...	3.447	0.000	4520	0	NoCal	N.D.
36) Toxaphene...	7.516	0.000	56525	0	63.111	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.117	8.865	3391	6280	1.007	1.239
39) Toxaphene...	8.314f	8.904	23317	39801	7.196	4.767
40) Toxaphene...	8.583	9.100	2463	28697	1.028	6.158 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.447	0.000	4520	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231916.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 16:09  
Operator : MJB  
Sample : 9H23034-IBL1  
Misc : Instrument Blank  
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:02:50 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231917.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 16:26  
 Operator : MJB  
 Sample : 9H23034-ICV1  
 Misc : A19E106, AB 50 ppb  
 ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:02:56 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

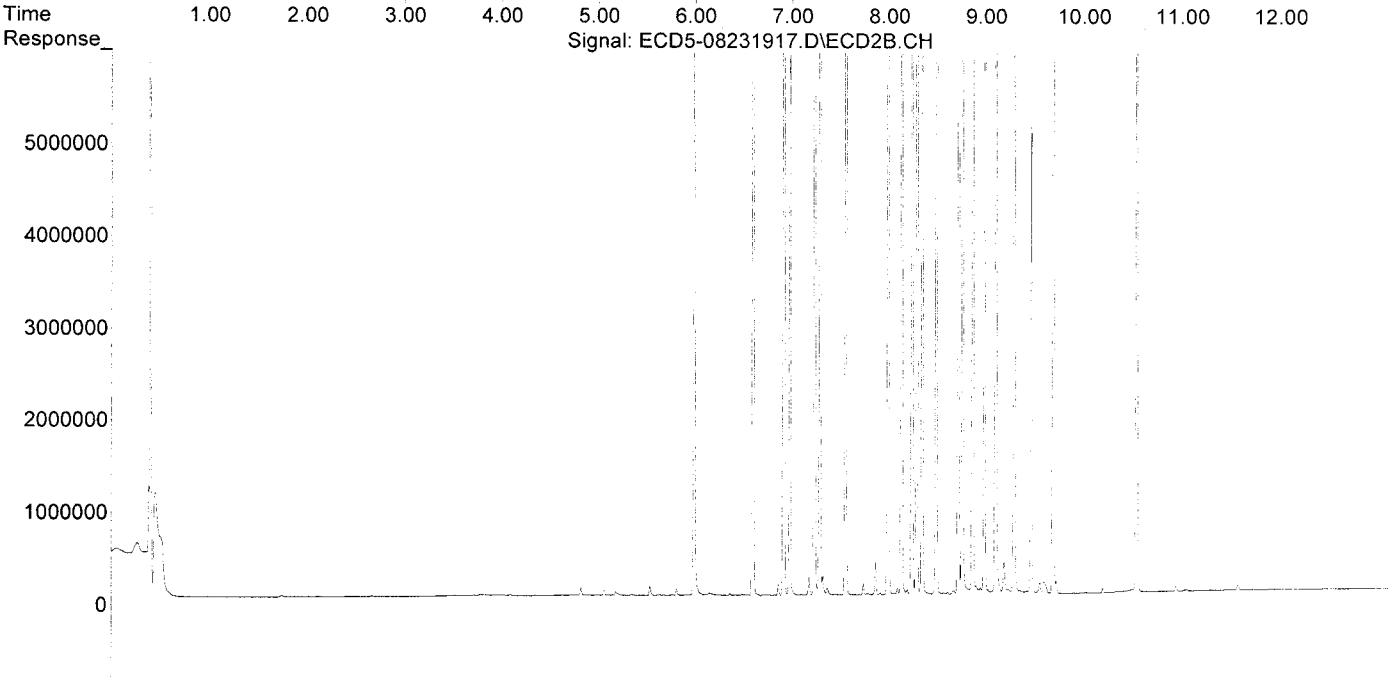
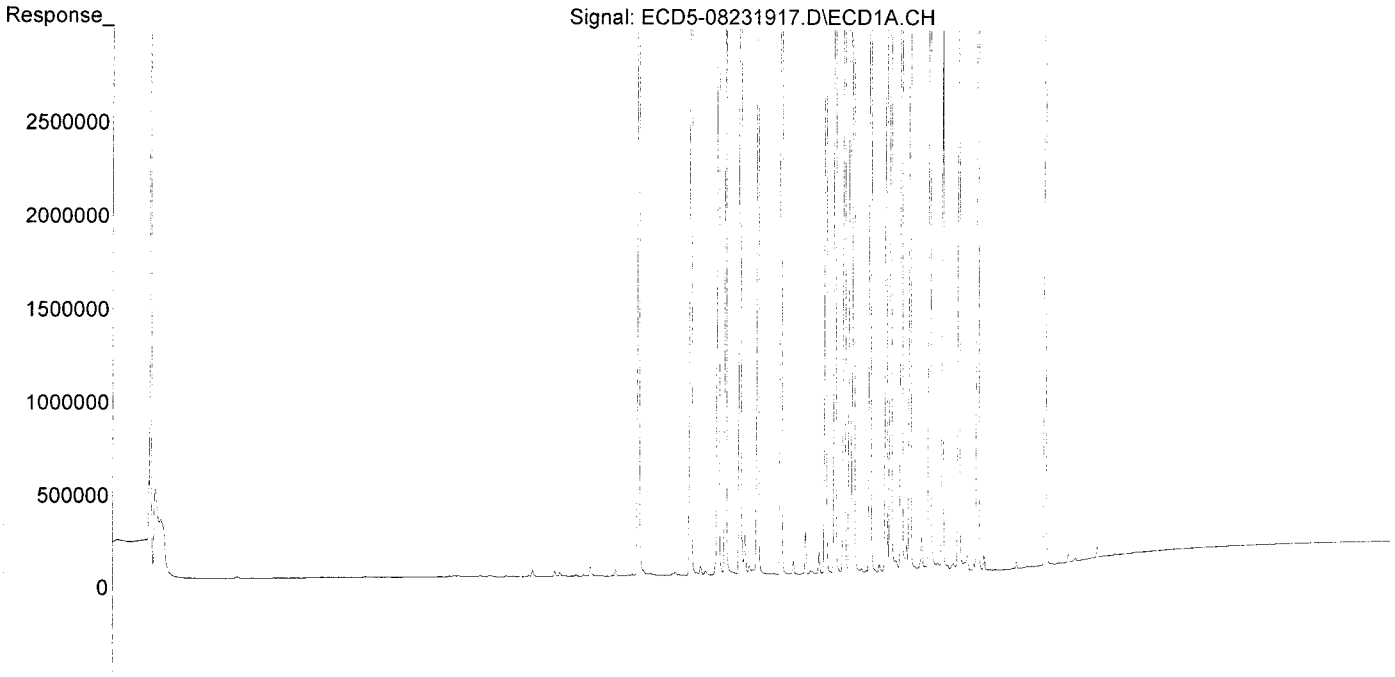
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.395	5.989	8209928	14467910	49.465	49.317
22) S DCBP (S)	9.589	10.539	6928381	8667079	49.103	48.214
Target Compounds						
2) a-BHC	5.935	6.596	11712240	21507667	51.072	52.414
3) g-BHC	6.218	6.913	10370774	18809716	51.397	52.732
4) b-BHC	6.296	6.977	4410789	7929442	48.801	50.102
5) Heptachlor	6.629	7.288	9286546	15998647	51.223	52.287
6) d-BHC	6.446	7.231	10162400	18561571	51.667	52.632
7) Aldrin	6.870	7.553	10415223	17743229	52.750	53.867
8) Heptachlo...	7.330	7.991	9218950	15454788	50.054	51.371
9) trans-Chl...	7.427	8.130	9449748	15882363	51.110	50.690
10) cis-Chlor...	7.523	8.238	8891439	15040020	48.835	51.640
11) Endosulfa...	7.620	8.288	8454858	14042285	49.682	51.030
12) 4,4'-DDE	7.583	8.343	9669653	16358741	51.290	52.655
13) Dieldrin	7.792	8.489	9566646	15751562	49.832	51.789
14) Endrin	7.957	8.715	7744641	11999227	52.675	53.135
15) 4,4'-DDD	8.003	8.758	8044313	14118585	51.192	55.105
16) Endosulfa...	8.114	8.862	7639079	12307624	53.193	53.371
17) 4,4'-DDT	8.201	8.984	6427421	10243965	53.759	54.092
18) Endrin Al...	8.403	9.098	7471981	12138603	60.652	61.144
19) Endosulfa...	8.704	9.289	8022310	12945664	51.764	51.972
20) Methoxychlor	8.537	9.463	3243218	5107379	55.369	56.272
21) Endrin Ke...	8.898	9.687	8897553	13958232	53.356	54.245
23) Hexachlor...	0.000	3.713f	0	6424	N.D.	0.017 #
24) Hexachlor...	5.778	6.482f	19713	11218	0.112	0.036 #
25) Oxychlordane	7.266	7.916	116203	18640	0.706	0.068 #
26) 2,4'-DDE	7.330	8.130	9218950	15882363	71.876	74.868
27) trans-Non...	7.523	8.193	8891439	52587	49.340	0.174 #
28) 2,4'-DDD	7.704	8.489	22276	15751562	0.195	83.402 #
29) 2,4'-DDT	7.889	8.715	44366	11999227	0.404	67.283 #
30) cis-Nonac...	8.003	8.758	8044313	14118585	38.746	42.089
31) Mirex	8.653	9.687	40409	13958232	0.322	75.015 #
32) Chlordane...	7.427	8.130	9449748	15882363	479.936	438.926
33) Chlordane...	7.523	8.238	8891439	15040020	354.745	495.323
34) Chlordane...	0.000	8.899	0	79876	N.D.	8.909 #
35) Chlordane...	3.446	0.000	5075	0	NoCal	N.D.
36) Toxaphene...	7.523f	8.489f	8891439	15751562	9927.388	6002.292
37) Toxaphene...	7.792	0.000	9566646	0	5923.845	N.D. #
38) Toxaphene...	8.114	8.862	7639079	12307624	2268.479	2428.346
39) Toxaphene...	8.324f	8.899	184731	79876	57.013	9.566 #
40) Toxaphene...	8.537f	9.098	3243218	12138603	1352.952	2604.650 #
41) Toxaphene...	8.653	9.463	40409	5107379	12.769	1075.192 #
42) Toxaphene...	3.446	0.000	5075	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231917.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 16:26  
Operator : MJB  
Sample : 9H23034-ICV1  
Misc : A19E106, AB 50 ppb  
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:02:56 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231926.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 19:02  
 Operator : MJB  
 Sample : 9H23034-IBL2  
 Misc : Instrument Blank  
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:03:03 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

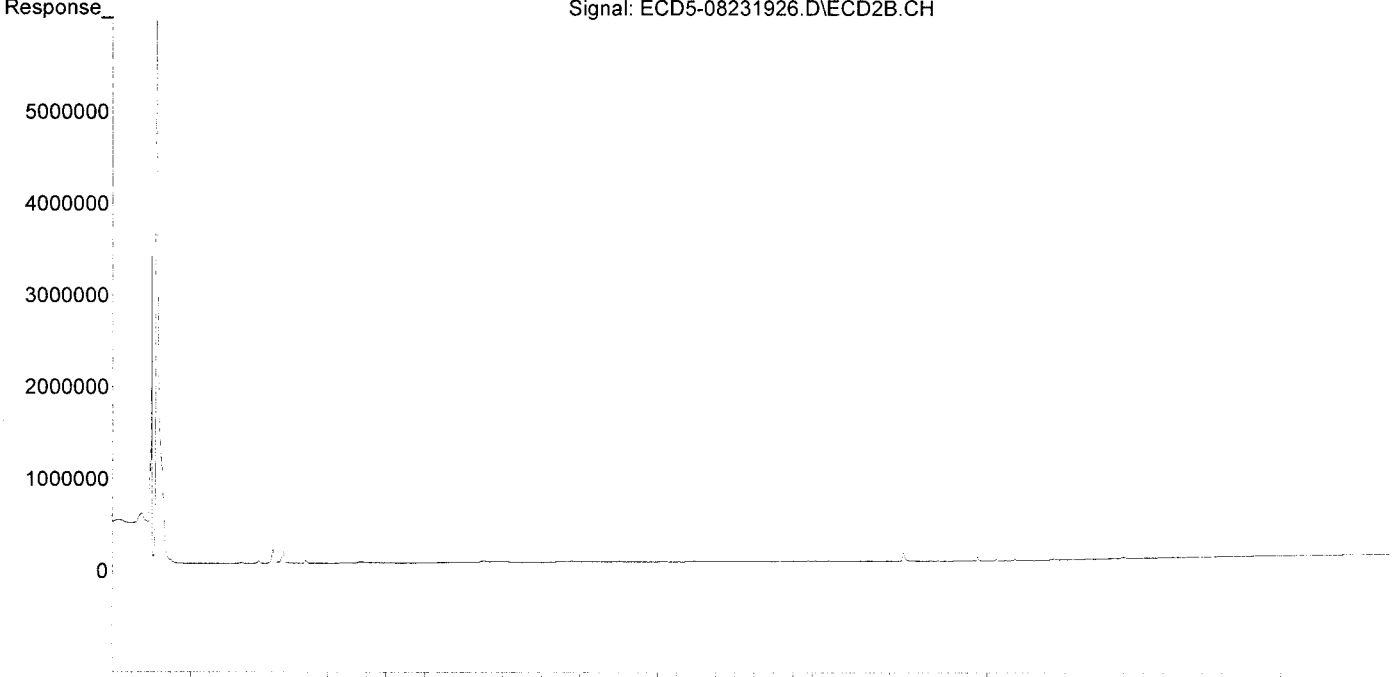
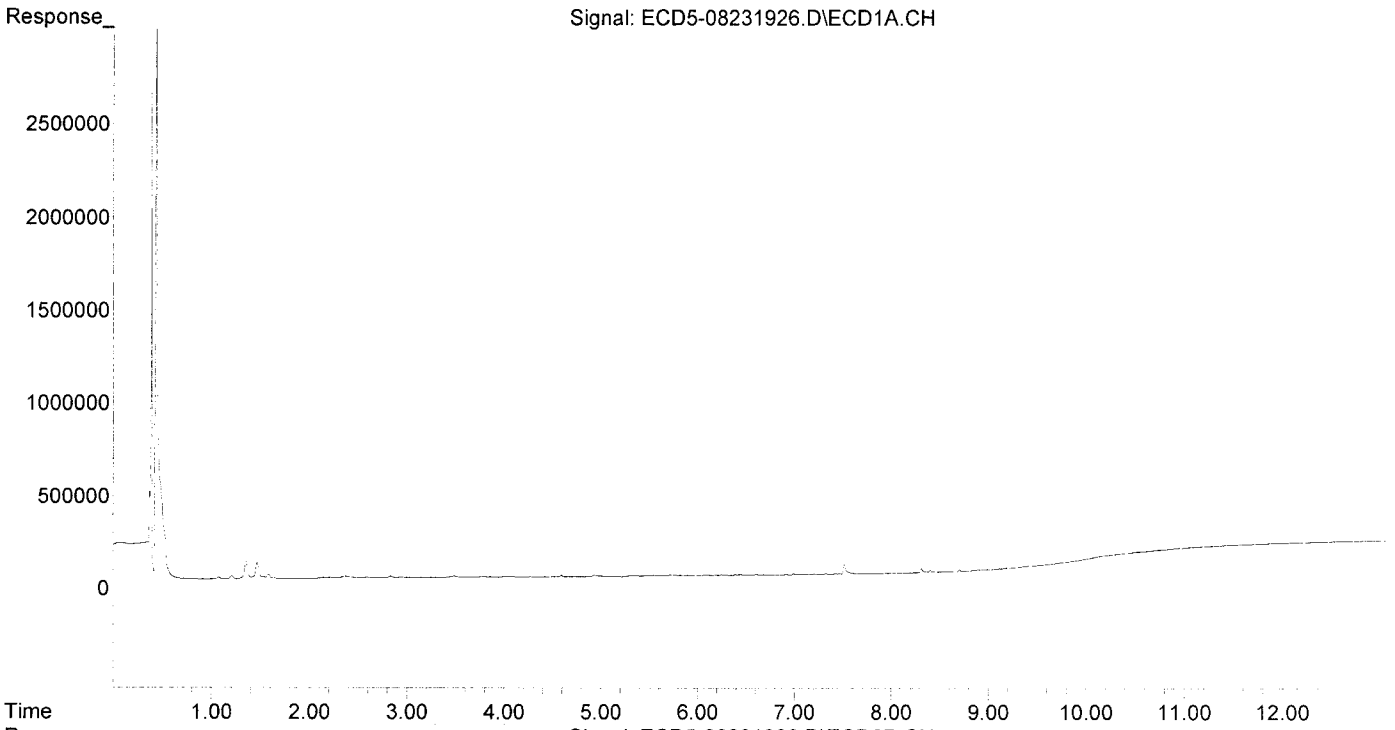
*Clean*  
*MJB*  
*8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.979	0	6612	N.D.	0.023 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.246f	0.000	5266	0	0.026	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.606f	0.000	2965	0	0.016	N.D. #
6) d-BHC	6.448	7.230	6262	8744	0.032	0.025
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	0.000	8.141	0	95737	N.D.	0.306 #
10) cis-Chlor...	7.516	0.000	51171	0	0.281	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	8.115	8.861	2908	5919	0.020	0.026
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.404	9.098	11210	14199	BelowCal	BelowCal
19) Endosulfa...	8.705	9.288	9669	15528	0.062	0.062
20) Methoxychlor	8.535	0.000	2114	0	0.036	N.D. #
21) Endrin Ke...	8.899	9.685	4160	14028	0.025	0.055 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlorthane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	0.000	8.141	0	95737	N.D.	0.451 #
27) trans-Non...	7.516	0.000	51171	0	<del>87346.415</del>	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.653	9.685	1197	14028	0.010	0.075 #
32) Chlordane...	0.000	8.141	0	95737	N.D.	2.646 #
33) Chlordane...	7.516	0.000	51171	0	2.042	N.D. #
34) Chlordane...	8.051	8.903	2776	42860	0.480	4.780 #
35) Chlordane...	3.446	0.000	4206	0	NoCal	N.D.
36) Toxaphene...	7.516	0.000	51171	0	57.133	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.115	8.861	2908	5919	0.863	1.168
39) Toxaphene...	8.313f	8.903	23619	42860	7.290	5.133
40) Toxaphene...	8.535f	9.098	2114	14199	0.882	3.047 #
41) Toxaphene...	8.653	0.000	1197	0	0.378	N.D. #
42) Toxaphene...	3.446	0.000	4206	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231926.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 19:02  
Operator : MJB  
Sample : 9H23034-IBL2  
Misc : Instrument Blank  
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:03:03 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231927.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 19:19  
 Operator : MJB  
 Sample : 9H23034-ICV2  
 Misc : A19E043, 9-42 50 ppb  
 ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:03:09 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*WPB 8/26/19*

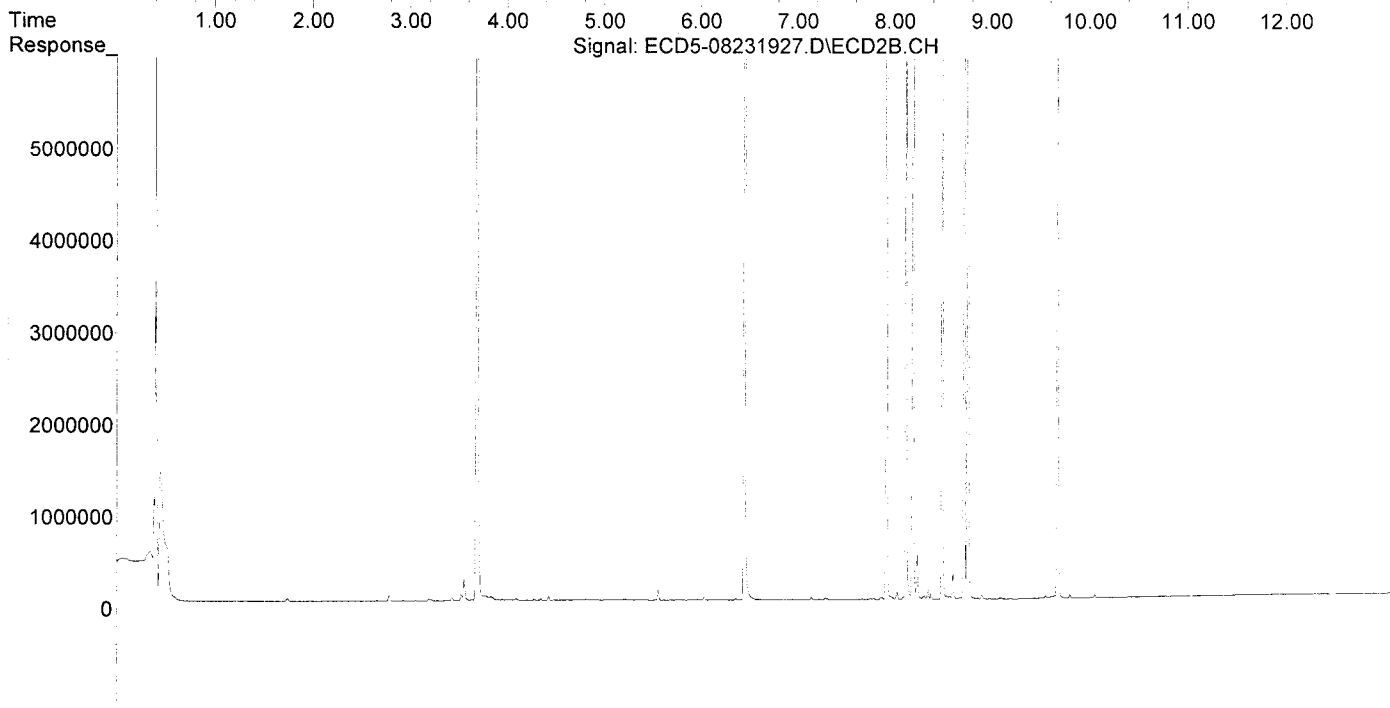
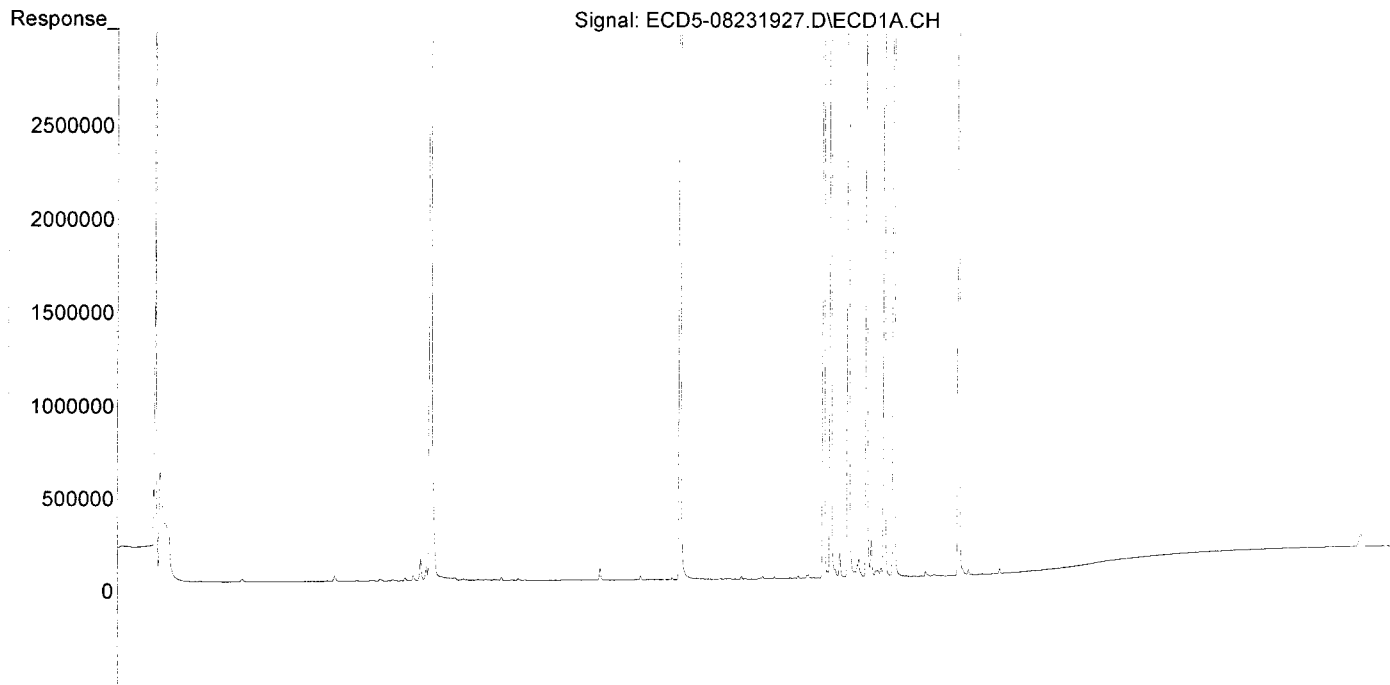
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.979	21795	7434	0.131	0.025 #
22) S DCBP (S)	9.593	0.000	5164	0	0.037	N.D. #
Target Compounds						
2) a-BHC	5.944	0.000	7626	0	0.033	N.D. #
3) g-BHC	6.193f	6.950f	4309	4488	0.021	0.013 #
4) b-BHC	6.276f	6.950f	4448	4488	0.049	0.028 #
5) Heptachlor	6.631	7.288	13910	18612	0.077	0.061
6) d-BHC	6.450	7.231	4193	7280	0.021	0.021
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.333	7.969f	6044730	30442	32.820	0.101 #
9) trans-Chl...	7.428	8.122	135885	10152421	0.735	32.402 #
10) cis-Chlor...	7.515	8.238	9079715	499411	49.869	1.715 #
11) Endosulfa...	7.623	8.313f	100346	33305	0.590	0.121 #
12) 4,4'-DDE	7.585	8.350	33793	99515	0.179	0.320 #
13) Dieldrin	7.801	8.494	35090	9221128	0.183	30.318 #
14) Endrin	7.985f	8.719	9530740	8396212	64.823	37.180 #
15) 4,4'-DDD	7.985	8.758	9530740	16410440	60.651	64.050
16) Endosulfa...	0.000	8.903f	0	43832	N.D.	0.190 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.400	9.100	6045	8867	BelowCal	BelowCal
19) Endosulfa...	0.000	9.288	0	6758	N.D.	0.027 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.897	9.678	3909	8640754	0.023	33.580 #
23) Hexachlor...	3.197	3.687	8657262	18235302	47.375	48.507
24) Hexachlor...	5.774	6.453	8419764	15057280	47.760	47.940
25) Oxychlordane	7.260	7.920	8060765	13729255	48.990	50.125
26) 2,4'-DDE	7.333	8.122	6044730	10152421	47.128	47.858
27) trans-Non...	7.515	8.194	9079715	15314695	50.392	50.772
28) 2,4'-DDD	7.704	8.494	5439144	9221128	47.659	48.824
29) 2,4'-DDT	7.888	8.719	5329154	8396212	48.585	47.080
30) cis-Nonac...	7.985	8.758	9530740	16410440	45.906	48.921
31) Mirex	8.652	9.678	5900124	8640754	47.063	46.437
32) Chlordane...	7.428	8.122	135885	10152421	6.901	280.573 #
33) Chlordane...	7.515	8.238	9079715	499411	362.257	16.447 #
34) Chlordane...	0.000	8.903	0	43832	N.D.	4.889 #
35) Chlordane...	3.444	3.433	15163	32758	NoCal	NoCal
36) Toxaphene...	7.515	8.494f	9079715	9221128	10137.600	3513.804 #
37) Toxaphene...	7.801	0.000	35090	0	21.729	N.D. #
38) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
39) Toxaphene...	8.313f	8.903	24546	43832	7.576	5.249
40) Toxaphene...	0.000	9.100	0	8867	N.D.	1.903 #
41) Toxaphene...	8.652	0.000	5900124	0	1864.424	N.D. #
42) Toxaphene...	3.444	3.433	15163	32758	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231927.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 19:19  
Operator : MJB  
Sample : 9H23034-ICV2  
Misc : A19E043, 9-42 50 ppb  
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:03:09 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231934.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 21:20  
 Operator : MJB  
 Sample : 9H23034-IBL3  
 Misc : Instrument Blank  
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:03:15 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

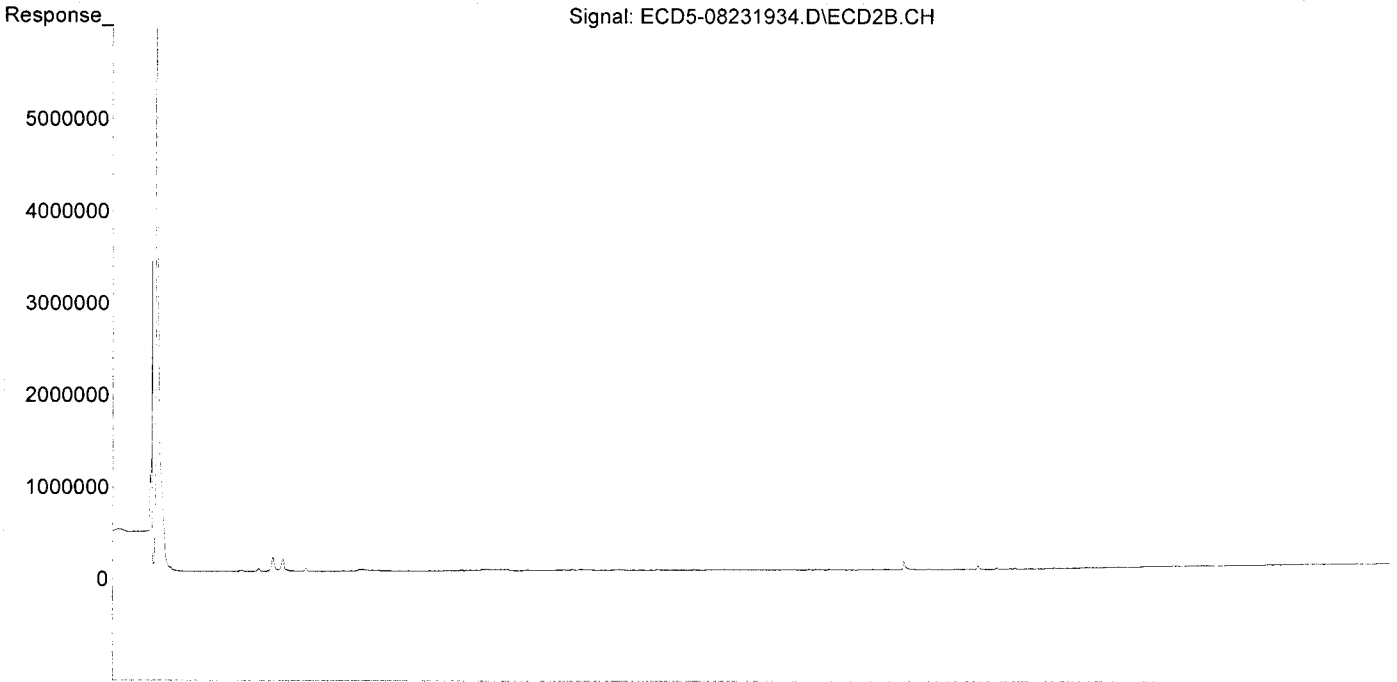
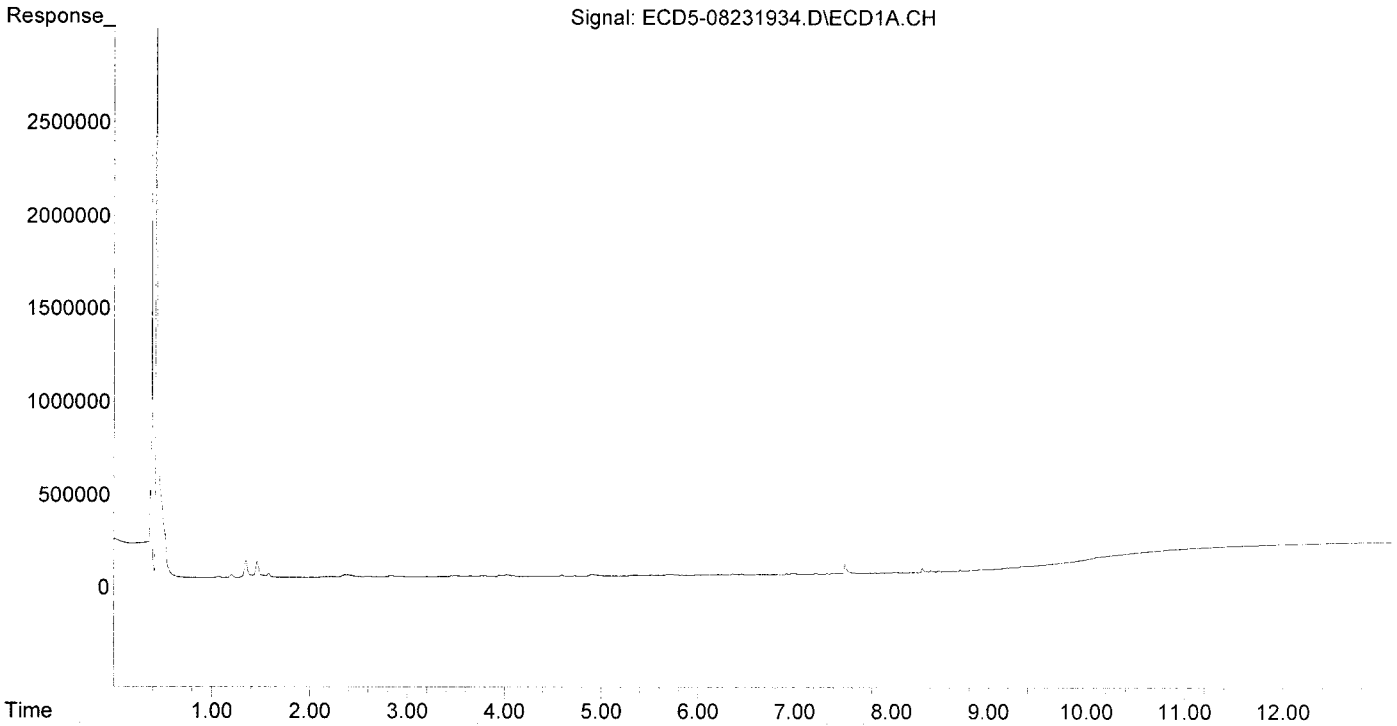
*clean*  
*MJB*  
*8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.976	0	5923	N.D.	0.020 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.207	0.000	3774	0	0.019	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.609f	0.000	2731	0	0.015	N.D. #
6) d-BHC	6.450	7.231	5497	6832	0.028	0.019
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
9) trans-Chl...	0.000	8.142	0	83130	N.D.	0.265 #
10) cis-Chlor...	7.519	0.000	51396	0	0.282	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	8.023f	0.000	4578	0	0.029	N.D. #
16) Endosulfa...	8.116	8.861	1913	3871	0.013	0.017
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.405	9.098	8970	10610	BelowCal	BelowCal
19) Endosulfa...	8.706	9.288	7044	10525	0.045	0.042
20) Methoxychlor	8.536	0.000	1701	0	0.029	N.D. #
21) Endrin Ke...	8.919f	9.686	4032	9735	0.024	0.038 #
23) Hexachlor...	0.000	3.679	0	2600	N.D.	0.007 #
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	0.000	8.142	0	83130	N.D. <i>ROI</i>	0.392 #
27) trans-Non...	7.519	0.000	51396	0	<del>87346.414</del>	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	8.023f	0.000	4578	0	0.022	N.D. #
31) Mirex	0.000	9.686	0	9735	N.D.	0.052 #
32) Chlordane...	0.000	8.142	0	83130	N.D.	2.297 #
33) Chlordane...	7.519	0.000	51396	0	2.051	N.D. #
34) Chlordane...	0.000	8.904	0	38172	N.D.	4.258 #
35) Chlordane...	3.449	0.000	3828	0	NoCal	N.D.
36) Toxaphene...	7.519	0.000	51396	0	57.384	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.116	8.861	1913	3871	0.568	0.764
39) Toxaphene...	8.316f	8.904	21302	38172	6.574	4.572
40) Toxaphene...	8.536f	9.098	1701	10610	0.709	2.277 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.449	0.000	3828	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231934.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:20  
Operator : MJB  
Sample : 9H23034-IBL3  
Misc : Instrument Blank  
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:03:15 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231935.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 21:37  
 Operator : MJB  
 Sample : 9H23034-ICV3  
 Misc : A19F108, CHLOR 500 ppb  
 ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:03:22 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*8/26/19*

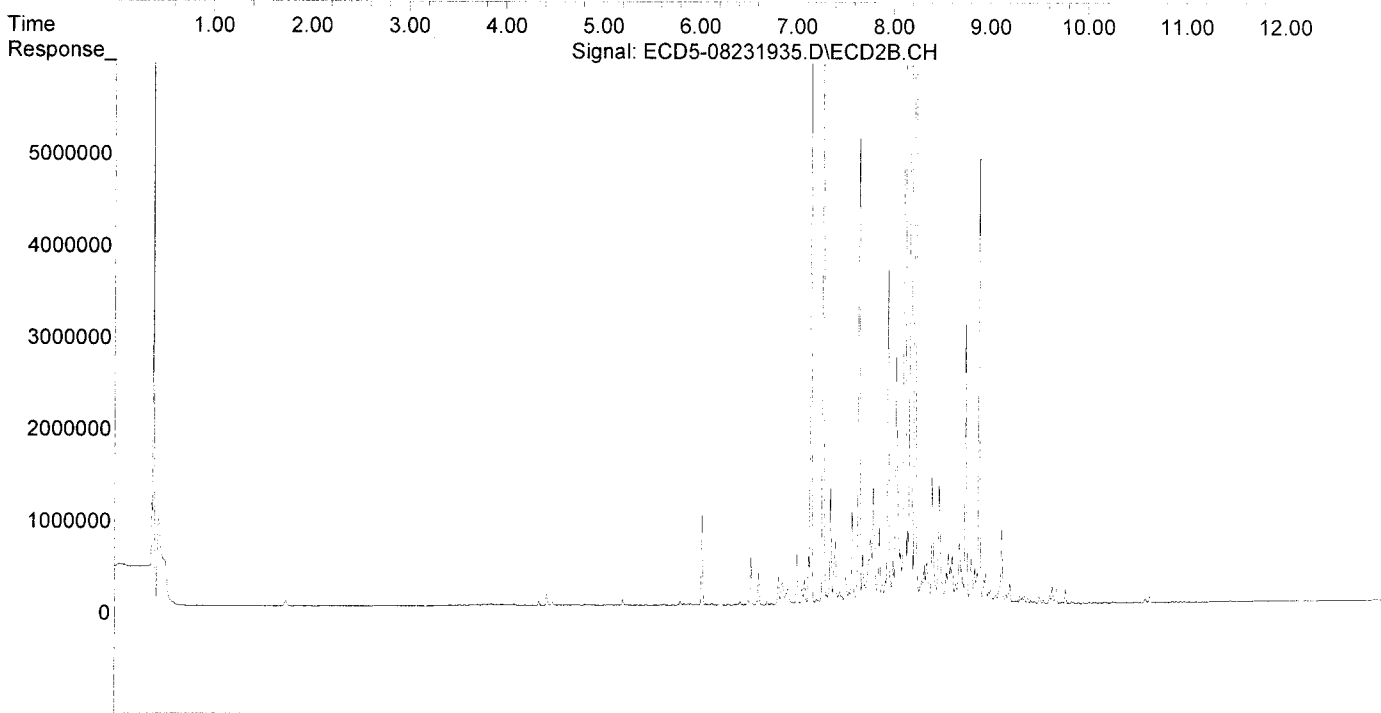
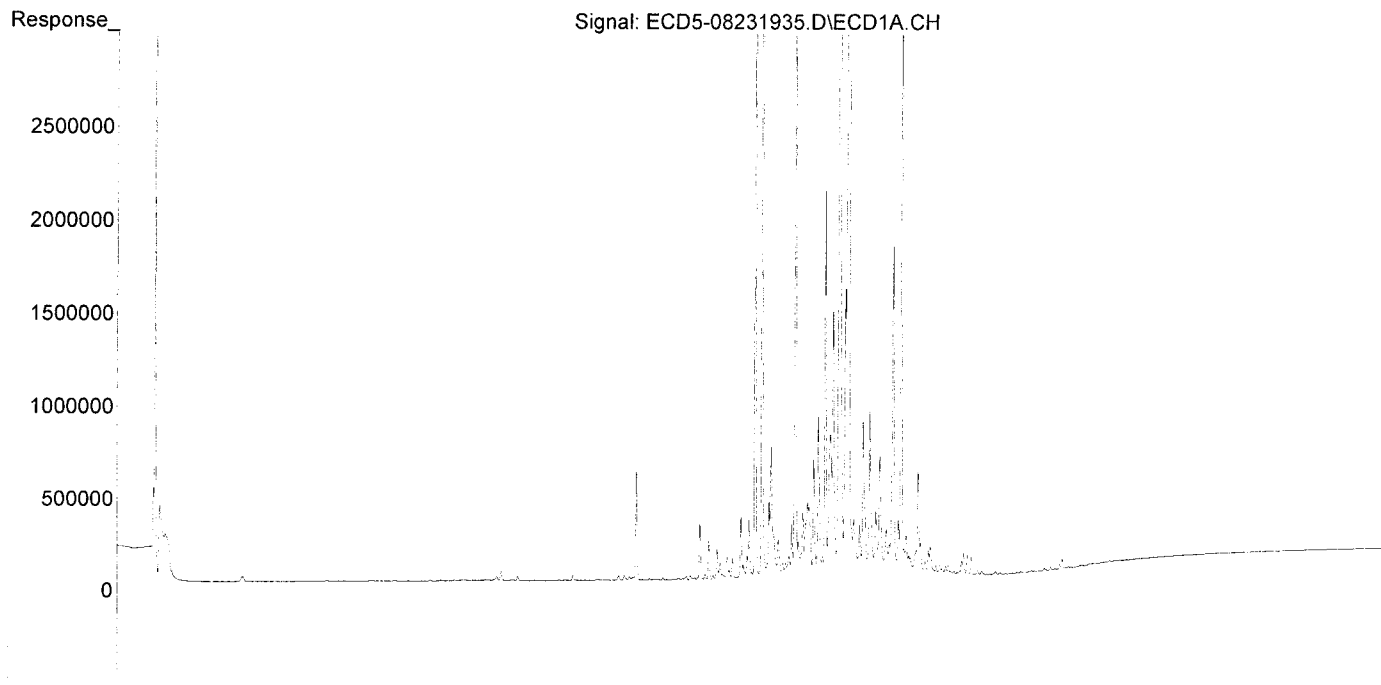
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.975	0	8961	N.D.	0.031 #
22) S DCBP (S)	9.601	10.507f	18796	7616	0.133	0.042 #
Target Compounds						
2) a-BHC	5.934	6.622f	9141	348363	0.040	0.849 #
3) g-BHC	6.194f	6.923	92353	182619	0.458	0.512 #
4) b-BHC	6.323f	7.017f	112667	560662	1.247	3.543 #
5) Heptachlor	6.630	7.288	4625489	7814185	25.513	25.538 #
6) d-BHC	6.412f	7.222	337700	61064	1.717	0.173 #
7) Aldrin	6.874	7.557	83911	133681	0.425	0.406 #
8) Heptachlo...	7.336	8.010	771372	473989	4.188	1.576 #
9) trans-Chl...	7.427	8.130	10721056	19872286	57.986	63.424 #
10) cis-Chlor...	7.520	8.238	13401062	16289264	73.603	55.929 #
11) Endosulfa...	7.639	8.310f	285254	253033	1.676	0.920 #
12) 4,4'-DDE	7.578	8.333	311083	429833	1.650	1.384 #
13) Dieldrin	7.806	8.488	355046	1298858	1.849	4.270 #
14) Endrin	7.984f	8.713	1829350	383068	12.442	1.696 #
15) 4,4'-DDD	7.984	8.759	1829350	3046940	11.641	11.892 #
16) Endosulfa...	8.118	8.873	216170	351371	1.505	1.524 #
17) 4,4'-DDT	0.000	8.994	0	130946	N.D.	0.725 #
18) Endrin Al...	8.427f	9.128f	55387	802635	BelowCal	3.530 #
19) Endosulfa...	8.708	9.290	120383	34589	0.777	0.139 #
20) Methoxychlor	8.552	9.463	53824	27882	0.919	0.160 #
21) Endrin Ke...	8.894	9.687	19548	156351	0.117	0.608 #
23) Hexachlor...	3.198	3.688	5435	10087	0.030	0.027 #
24) Hexachlor...	5.768	6.431f	8591	38244	0.049	0.122 #
25) Oxychlordane	7.253	7.933	114695	258636	0.697	0.944 #
26) 2,4'-DDE	7.336	8.130	771372	19872286	6.014	93.676 #
27) trans-Non...	7.520	8.195	13401062	14312099	74.546	47.448 #
28) 2,4'-DDD	7.674f	8.488	831029	1298858	7.282	6.877 #
29) 2,4'-DDT	7.913f	8.713	254540	383068	2.321	2.148 #
30) cis-Nonac...	7.984	8.759	1829350	3046940	8.811	9.083 #
31) Mirex	8.643	9.687	16477	156351	0.131	0.840 #
32) Chlordane...	7.427	8.130	10721056	19872286	544.503	549.192 #
33) Chlordane...	7.520	8.238	13401062	16289264	534.667	536.465 #
34) Chlordane...	8.068	8.898	3177144	4850138	549.572	540.955 #
35) Chlordane...	3.448	0.000	3889	0	NoCal	N.D.
36) Toxaphene...	7.520	8.488f	13401062	1298858	14962.430	494.943 #
37) Toxaphene...	7.806	8.814	355046	496679	219.851	150.919 #
38) Toxaphene...	8.118	8.851	216170	383467	64.193	75.660 #
39) Toxaphene...	8.347	8.898	132572	4850138	40.915	580.866 #
40) Toxaphene...	8.552f	9.068f	53824	98957	22.453	21.234 #
41) Toxaphene...	8.643	9.463	16477	27882	5.207	5.870 #
42) Toxaphene...	3.448	0.000	3889	0	NoCal	N.D.

*B* *E*  
*542.91* *542.20*

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231935.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:37  
Operator : MJB  
Sample : 9H23034-ICV3  
Misc : A19F108, CHLOR 500 ppb  
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:03:22 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231942.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 23:37  
 Operator : MJB  
 Sample : 9H23034-IBL4  
 Misc : Instrument Blank  
 ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:03:28 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

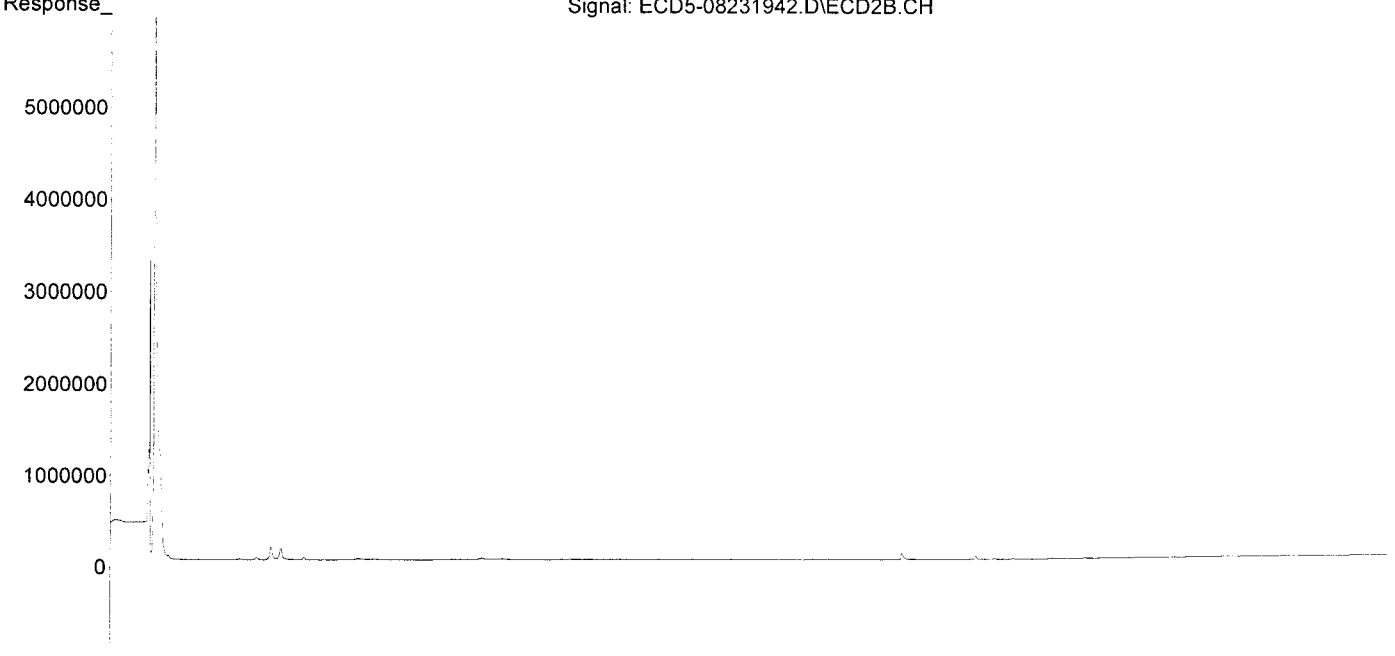
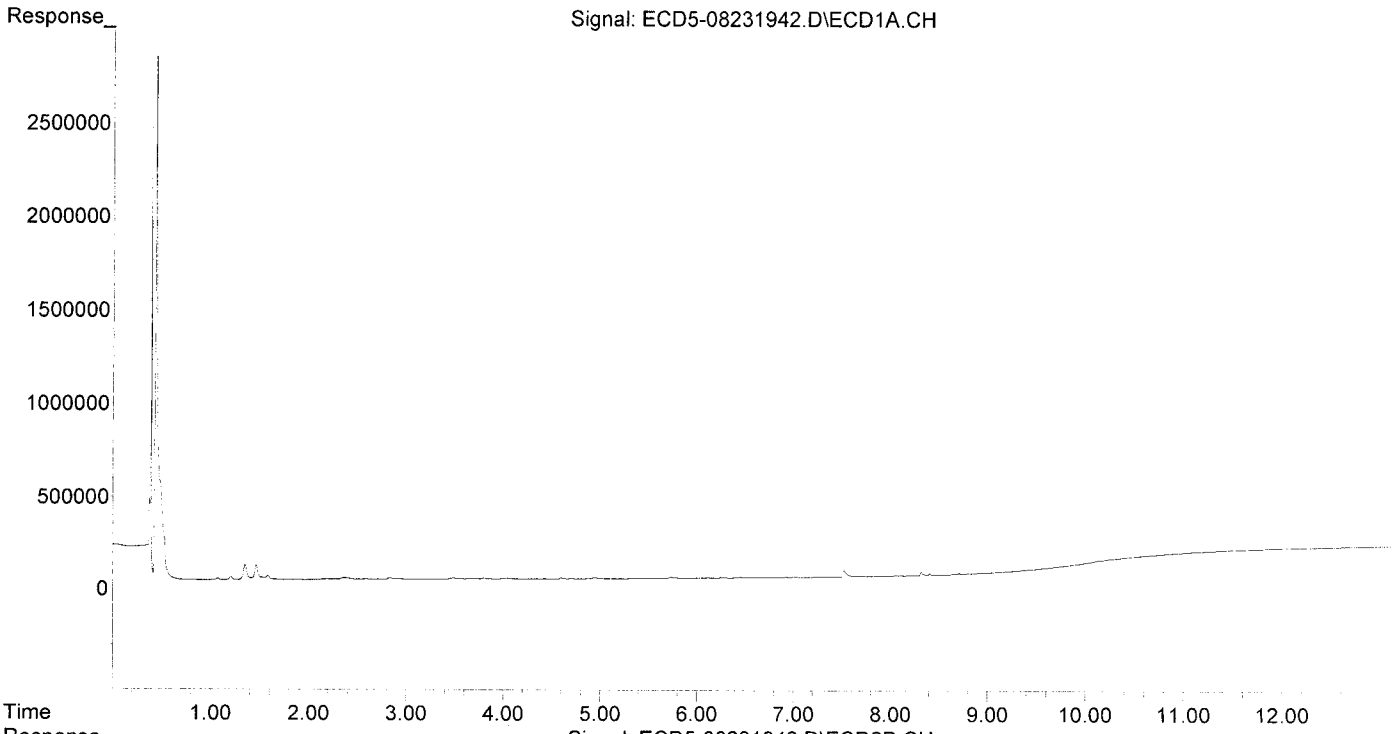
*MJB  
8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.983	0	6142	N.D.	0.021 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.248f	0.000	4243	0	0.021	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	0.000	0.000	0	0	N.D.	N.D.
6) d-BHC	6.450	7.232	5264	7410	0.027	0.021
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.334	0.000	1978	0	0.011	N.D. #
9) trans-Chl...	7.425	8.145	1693	72982	0.009	0.233 #
10) cis-Chlor...	7.522	0.000	38316	0	0.210	N.D. #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	0.000	0.000	0	0	N.D.	N.D.
14) Endrin	0.000	0.000	0	0	N.D.	N.D.
15) 4,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
16) Endosulfa...	8.117	0.000	2505	0	0.017	N.D. #
17) 4,4'-DDT	8.194	0.000	767	0	0.006	N.D. #
18) Endrin Al...	8.406	9.100	10140	13686	BelowCal	BelowCal
19) Endosulfa...	8.707	9.290	7273	12897	0.047	0.052
20) Methoxychlor	8.540	0.000	2018	0	0.034	N.D. #
21) Endrin Ke...	8.901	9.687	3565	7207	0.021	0.028
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlorane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	7.334	8.145f	1978	72982	0.015	0.344 #
27) trans-Non...	7.522	0.000	38316	0	<del>87346.487</del>	N.D. #
28) 2,4'-DDD	0.000	0.000	0	0	N.D.	N.D.
29) 2,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
30) cis-Nonac...	0.000	0.000	0	0	N.D.	N.D.
31) Mirex	8.644	9.687	766	7207	0.006	0.039 #
32) Chlordane...	7.425	8.145	1693	72982	0.086	2.017 #
33) Chlordane...	7.522	0.000	38316	0	1.529	N.D. #
34) Chlordane...	8.049	8.906	2785	37528	0.482	4.186 #
35) Chlordane...	3.451	0.000	3890	0	NoCal	N.D.
36) Toxaphene...	7.522f	0.000	38316	0	42.781	N.D. #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.117	0.000	2505	0	0.744	N.D. #
39) Toxaphene...	8.318f	8.906	18960	37528	5.852	4.495
40) Toxaphene...	8.540f	9.100	2018	13686	0.842	2.937 #
41) Toxaphene...	8.644	0.000	766	0	0.242	N.D. #
42) Toxaphene...	3.451	0.000	3890	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231942.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 23:37  
Operator : MJB  
Sample : 9H23034-IBL4  
Misc : Instrument Blank  
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:03:28 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231943.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 23:54  
 Operator : MJB  
 Sample : 9H23034-ICV4  
 Misc : A19D127, TOX 500 ppb  
 ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 15:03:35 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

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	5611	N.D.	0.019 #
22) S DCBP (S)	9.591	10.521	22246	40017	0.158	0.223 #
Target Compounds						
2) a-BHC	5.949	6.596	3272	7415	0.014	0.018
3) g-BHC	6.247f	6.907	6246	18839	0.031	0.053 #
4) b-BHC	6.296	6.966	11447	24200	0.127	0.153
5) Heptachlor	6.631	7.293	23849	45477	0.132	0.149
6) d-BHC	6.434	7.233	11867	47325	0.060	0.134 #
7) Aldrin	6.871	7.582f	53004	119759	0.268	0.364
8) Heptachlo...	7.358f	7.984	250185	414973	1.358	1.379
9) trans-Chl...	7.445	8.135	315388	332556	1.706	1.061
10) cis-Chlor...	7.501f	8.220	426074	475646	2.340	1.633
11) Endosulfa...	7.629	8.295	511717	592244	3.007	2.152
12) 4,4'-DDE	7.551f	8.359	359885	753065	1.909	2.424
13) Dieldrin	7.794	8.506	766286	726725	3.992	2.389 #
14) Endrin	7.934f	8.711	607064	1341537	4.129	5.941 #
15) 4,4'-DDD	8.021	8.761	679517	912025	4.324	3.560
16) Endosulfa...	8.105	8.848	1638713	2447077	11.411	10.611
17) 4,4'-DDT	8.184	8.976	1416015	960593	11.844	5.508 #
18) Endrin Al...	8.392	9.091	1088580	2275708	8.285	11.454
19) Endosulfa...	8.709	9.291	549140	929201	3.543	3.730
20) Methoxychlor	8.543	9.470	549172	2364076	9.376	27.518 #
21) Endrin Ke...	8.893	9.712f	380224	458705	2.280	1.783
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.813f	6.462	3660	6563	0.021	0.021
25) Oxychlorane	7.265	7.936	334880	406205	2.035	1.483
26) 2,4'-DDE	7.358f	8.112	250185	466633	1.951	2.200
27) trans-Non...	7.501	8.205	426074	457454	2.062	1.517
28) 2,4'-DDD	7.712	8.506	575777	726725	5.045	3.848
29) 2,4'-DDT	7.898	8.711	911632	1341537	8.311	7.522
30) cis-Nonac...	7.982	8.761	1096031	912025	5.279	2.719 #
31) Mirex	8.641	9.712f	1546722	458705	12.338	2.465 #
32) Chlordane...	7.445	8.135	315388	332556	16.018	9.191 #
33) Chlordane...	7.501	8.220	426074	475646	16.999	15.665
34) Chlordane...	8.046f	8.915	705731	4045258	122.075	451.184 # A
35) Chlordane...	3.453	0.000	2732	0	NoCal	N.D. B
36) Toxaphene...	7.501	8.466	426074	1252556	475.717	477.299
37) Toxaphene...	7.794	8.813	766286	1618562	474.499	491.811
38) Toxaphene...	8.105	8.848	1638713	2447077	486.627	482.818
39) Toxaphene...	8.346	8.915	1570667	4045258	484.751	484.472
40) Toxaphene...	8.573	9.091	1186452	2275708	494.944	488.312
41) Toxaphene...	8.641	9.470	1546722	2364076	488.760	497.679
42) Toxaphene...	3.453	0.000	2732	0	NoCal	N.D.

484.22 487.07

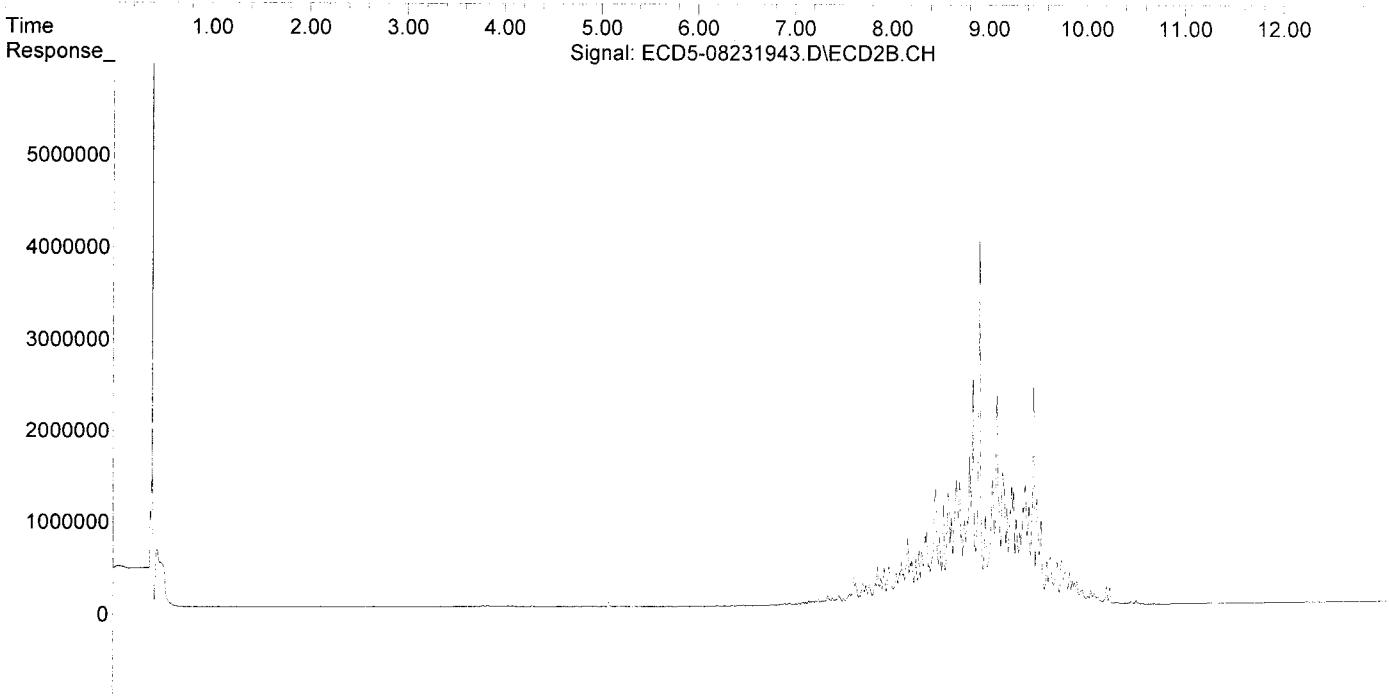
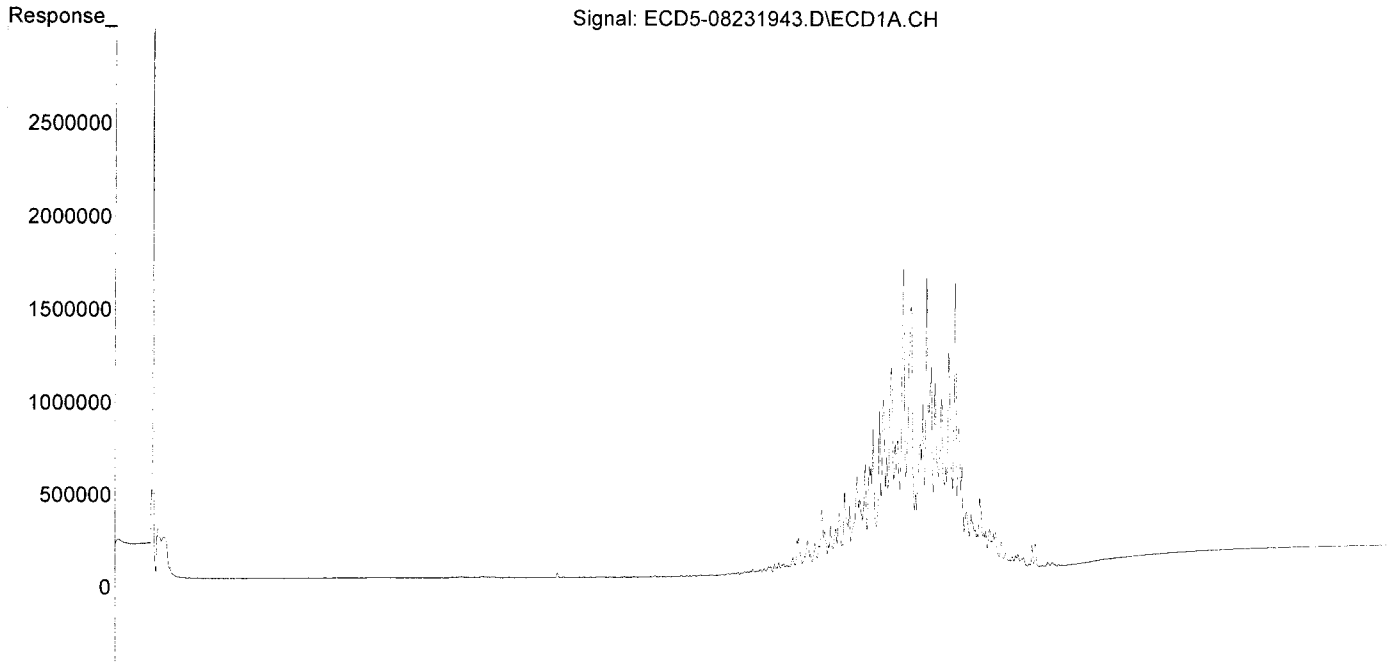
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231943.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 23:54  
Operator : MJB  
Sample : 9H23034-ICV4  
Misc : A19D127, TOX 500 ppb  
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 15:03:35 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231908.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 13:51  
 Operator : MJB  
 Sample : 9H23034-CAL1  
 Misc : A19E245, AB 1 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:59:55 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

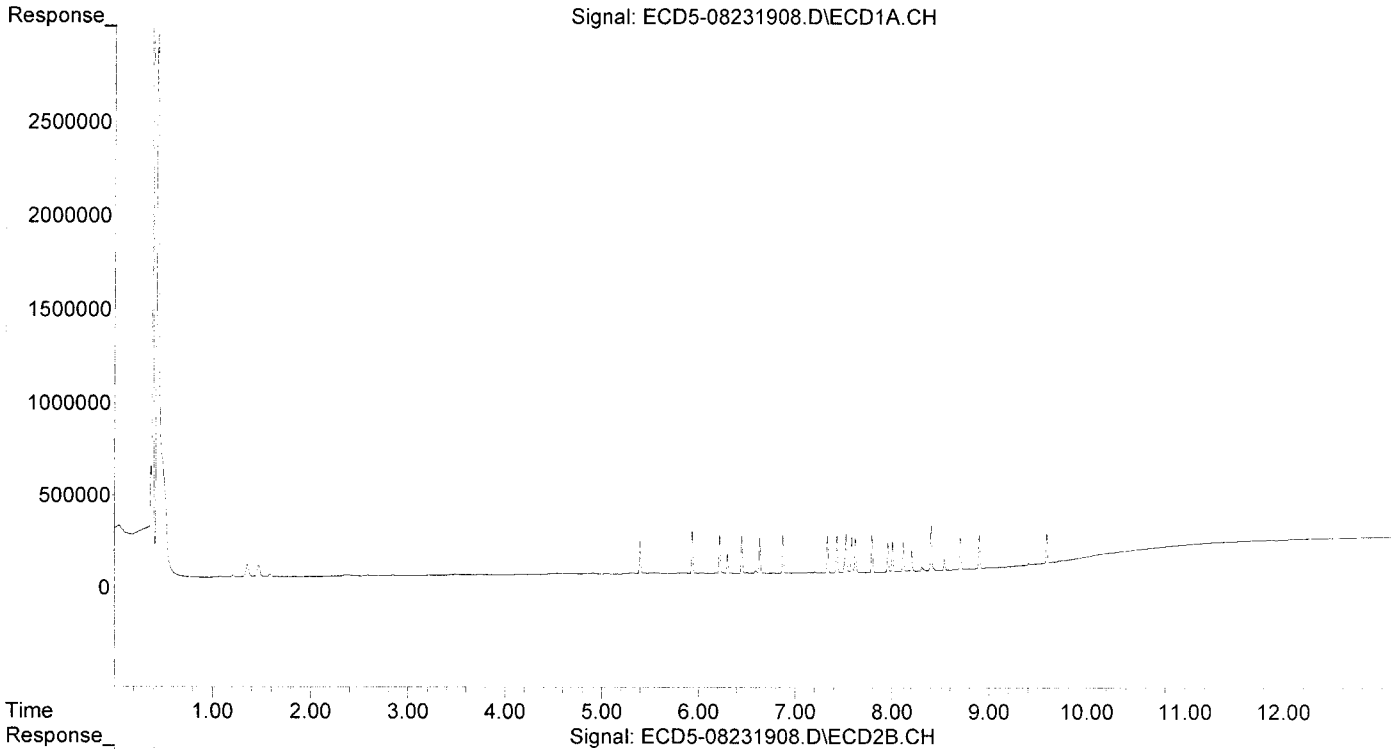
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.397	5.991	176748	300053	1.065	1.023
22) S DCBP (S)	9.593	10.541	163865	191572	1.161	1.066
Target Compounds						
2) a-BHC	5.937	6.597	231994	393119	1.012	0.958
3) g-BHC	6.221	6.915	207427	352286	1.028	0.988
4) b-BHC	6.300	6.980	104326	176262	1.154	1.114
5) Heptachlor	6.635	7.292	192066	309811	1.059	1.013
6) d-BHC	6.450	7.234	199840	349123	1.016	0.990
7) Aldrin	6.875	7.557	205523	317466	1.041	0.964
8) Heptachlo...	7.335	7.994	200503	310098	1.089	1.031
9) trans-Chl...	7.433	8.135	197202	364142	1.067	1.162
10) cis-Chlor...	7.528	8.241	209780	299422	1.152	1.028
11) Endosulfa...	7.625	8.291	185217	278874	1.088	1.013
12) 4,4'-DDE	7.586	8.346	193435	298463	1.026	0.961
13) Dieldrin	7.796	8.491	197721	296684	1.030	0.975
14) Endrin	7.961	8.718	156412	222882	1.064	0.987
15) 4,4'-DDD	8.007	8.760	164956	251549	1.050	0.982
16) Endosulfa...	8.118	8.865	158139	232156	1.101	1.007
17) 4,4'-DDT	8.205	8.986	113897	179700	0.953	1.008
18) Endrin Al...	8.407	9.101	241285	348624	1.050	1.058
19) Endosulfa...	8.708	9.292	176097	265797	1.136	1.067
20) Methoxychlor	8.543	9.466	59659	95155	1.019	0.994
21) Endrin Ke...	8.901	9.690	177552	255763	1.065	0.994
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlorane	0.000	0.000	0	0	N.D.	N.D.
26) 2,4'-DDE	7.335	8.135	200503	364142	1.563	1.717
27) trans-Non...	7.528	0.000	209780	0	0.855	N.D. #
28) 2,4'-DDD	0.000	8.491	0	296684	N.D.	1.571 #
29) 2,4'-DDT	0.000	8.718	0	222882	N.D.	1.250 #
30) cis-Nonac...	8.007f	8.760	164956	251549	0.795	0.750
31) Mirex	0.000	9.690	0	255763	N.D.	1.375 #
32) Chlordane...	7.433	8.135	197202	364142	10.016	10.063
33) Chlordane...	7.528	8.241	209780	299422	8.370	9.861
34) Chlordane...	0.000	8.903	0	37787	N.D.	4.214 #
35) Chlordane...	3.445	0.000	4502	0	NoCal	N.D.
36) Toxaphene...	7.528f	8.491f	209780	296684	234.222	113.054 #
37) Toxaphene...	7.796	0.000	197721	0	122.432	N.D. #
38) Toxaphene...	8.118	8.865	158139	232156	46.960	45.805
39) Toxaphene...	8.312f	8.903	20859	37787	6.438	4.525
40) Toxaphene...	8.543f	9.101	59659	348624	24.888	74.806 #
41) Toxaphene...	0.000	9.466	0	95155	N.D.	20.032 #
42) Toxaphene...	3.445	0.000	4502	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:51  
Operator : MJB  
Sample : 9H23034-CAL1  
Misc : A19E245, AB 1 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:59:55 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231909.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 14:08  
 Operator : MJB  
 Sample : 9H23034-CAL2  
 Misc : A19E246, AB 2 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:00:13 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

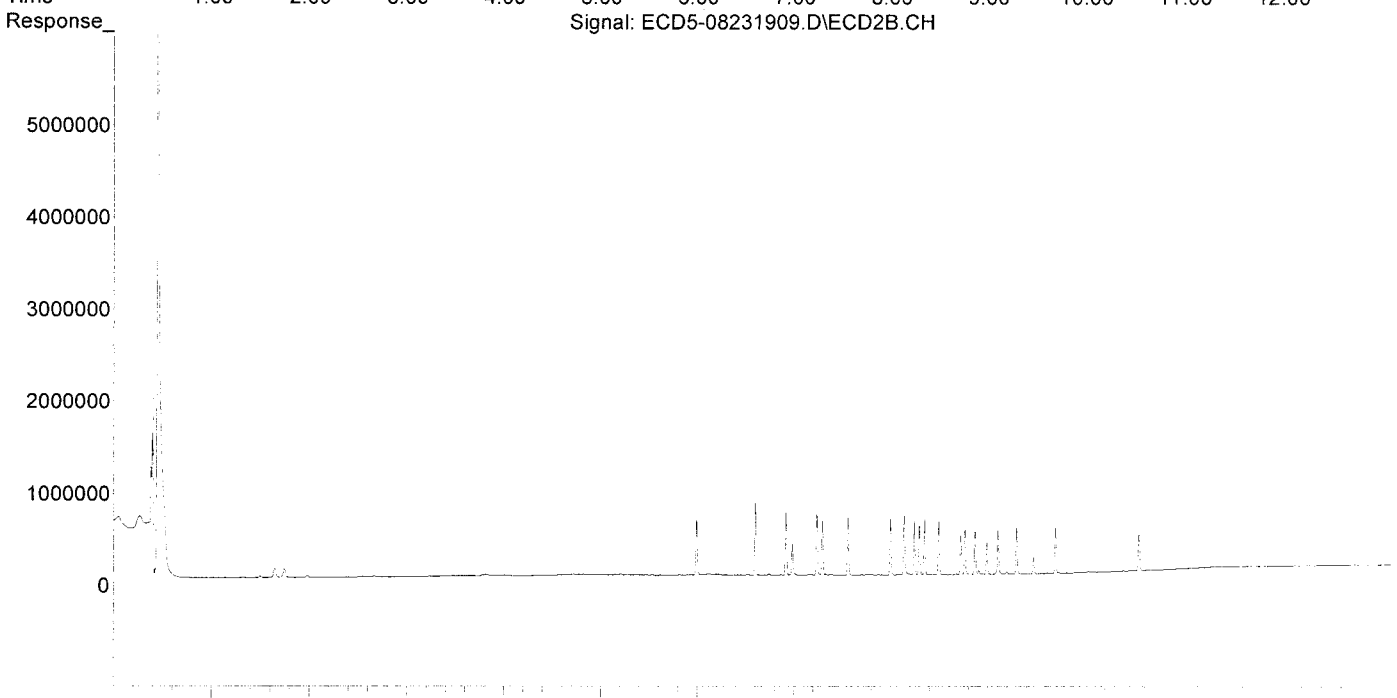
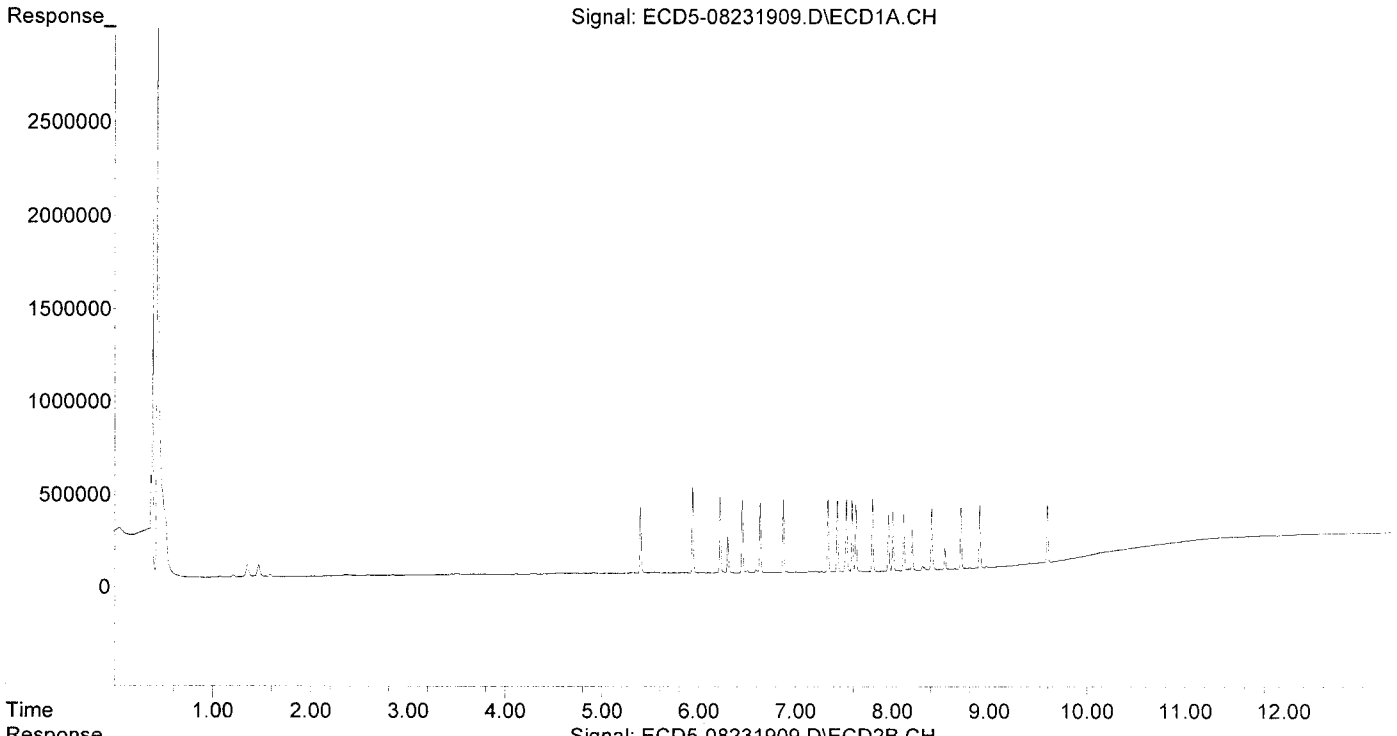
MJB  
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	349972	600766	2.109	2.048
22) S DCBP (S)	9.593	10.542	309904	390006	2.196	2.170
Target Compounds						
2) a-BHC	5.936	6.597	458365	784586	1.999	1.912
3) g-BHC	6.220	6.915	406027	690922	2.012	1.937
4) b-BHC	6.300	6.980	194168	335260	2.148	2.118
5) Heptachlor	6.635	7.291	369615	586765	2.039	1.918
6) d-BHC	6.450	7.233	386980	669122	1.967	1.897
7) Aldrin	6.875	7.556	399550	635458	2.024	1.929
8) Heptachlo...	7.335	7.993	392052	606240	2.129	2.015
9) trans-Chl...	7.432	8.135	382271	644454	2.068	2.057
10) cis-Chlor...	7.527	8.241	389999	579667	2.142	1.990
11) Endosulfa...	7.625	8.291	357368	540442	2.100	1.964
12) 4,4'-DDE	7.586	8.345	388618	598066	2.061	1.925
13) Dieldrin	7.796	8.491	395728	583812	2.061	1.919
14) Endrin	7.960	8.718	298515	424889	2.030	1.881
15) 4,4'-DDD	8.006	8.760	314622	488120	2.002	1.905
16) Endosulfa...	8.118	8.864	299106	462256	2.083	2.005
17) 4,4'-DDT	8.204	8.986	218190	341782	1.825	1.948
18) Endrin Al...	8.407	9.101	328182	477694	1.795	1.763
19) Endosulfa...	8.707	9.291	322163	498767	2.079	2.002
20) Methoxychlor	8.542	9.465	111466	178074	1.903	2.018
21) Endrin Ke...	8.901	9.689	331269	493110	1.987	1.916
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	7.271	0.000	4709	0	0.029	N.D. #
26) 2,4'-DDE	7.335	8.135	392052	644454	3.057	3.038
27) trans-Non...	7.527	0.000	389999	0	1.861	N.D. #
28) 2,4'-DDD	0.000	8.491	0	583812	N.D.	3.091 #
29) 2,4'-DDT	0.000	8.718	0	424889	N.D.	2.382 #
30) cis-Nonac...	8.006f	8.760	314622	488120	1.515	1.455
31) Mirex	8.657	9.689	1737	493110	0.014	2.650 #
32) Chlordane...	7.432	8.135	382271	644454	19.415	17.810
33) Chlordane...	7.527	8.241	389999	579667	15.560	19.091
34) Chlordane...	8.065	8.903	2900	40429	0.502	4.509 #
35) Chlordane...	3.445	0.000	4897	0	NoCal	N.D.
36) Toxaphene...	7.527f	8.491f	389999	583812	435.438	222.468 #
37) Toxaphene...	7.796	0.000	395728	0	245.042	N.D. #
38) Toxaphene...	8.118	8.864	299106	462256	88.822	91.205
39) Toxaphene...	8.312f	8.903	21365	40429	6.594	4.842
40) Toxaphene...	8.582	9.101	2314	477694	0.965	102.502 #
41) Toxaphene...	8.657	9.465	1737	178074	0.549	37.488 #
42) Toxaphene...	3.445	0.000	4897	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 14:08  
Operator : MJB  
Sample : 9H23034-CAL2  
Misc : A19E246, AB 2 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:00:13 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231910.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 14:25  
 Operator : MJB  
 Sample : 9H23034-CAL3  
 Misc : A19E247, AB 5 ppb  
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:00:25 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

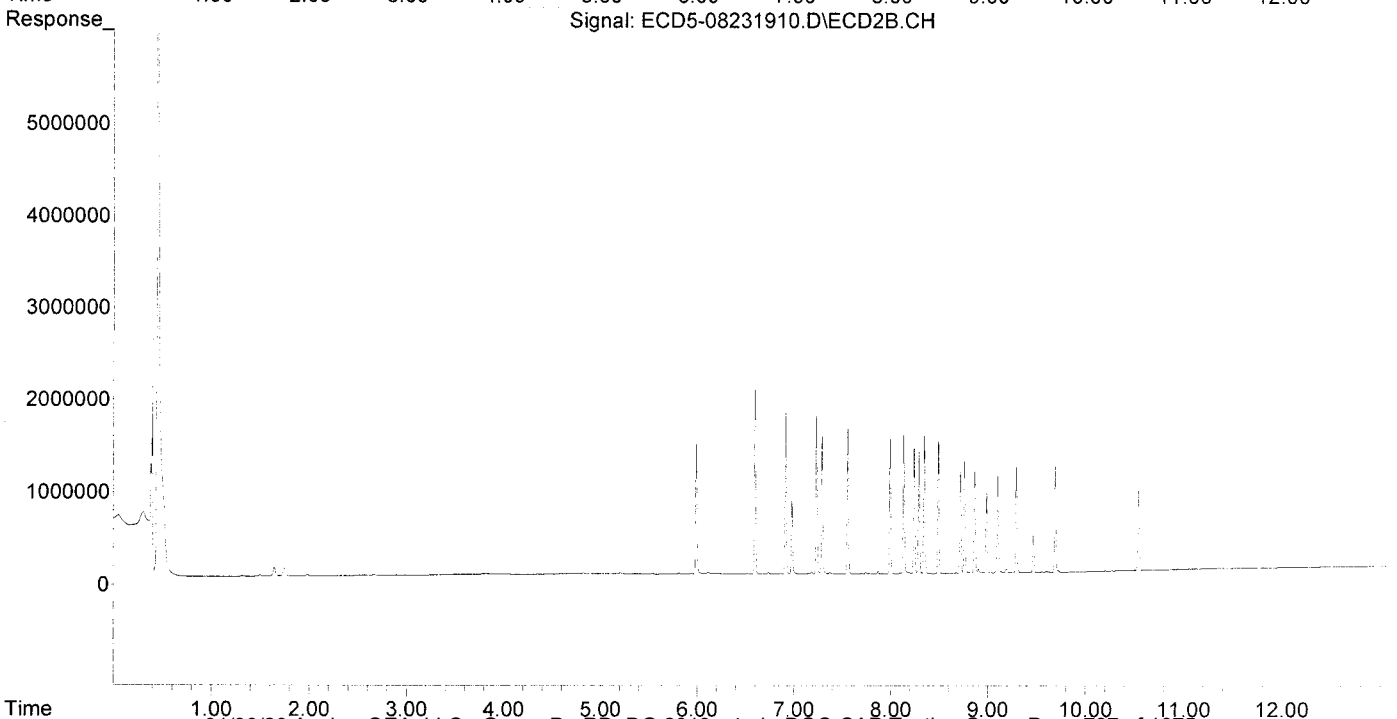
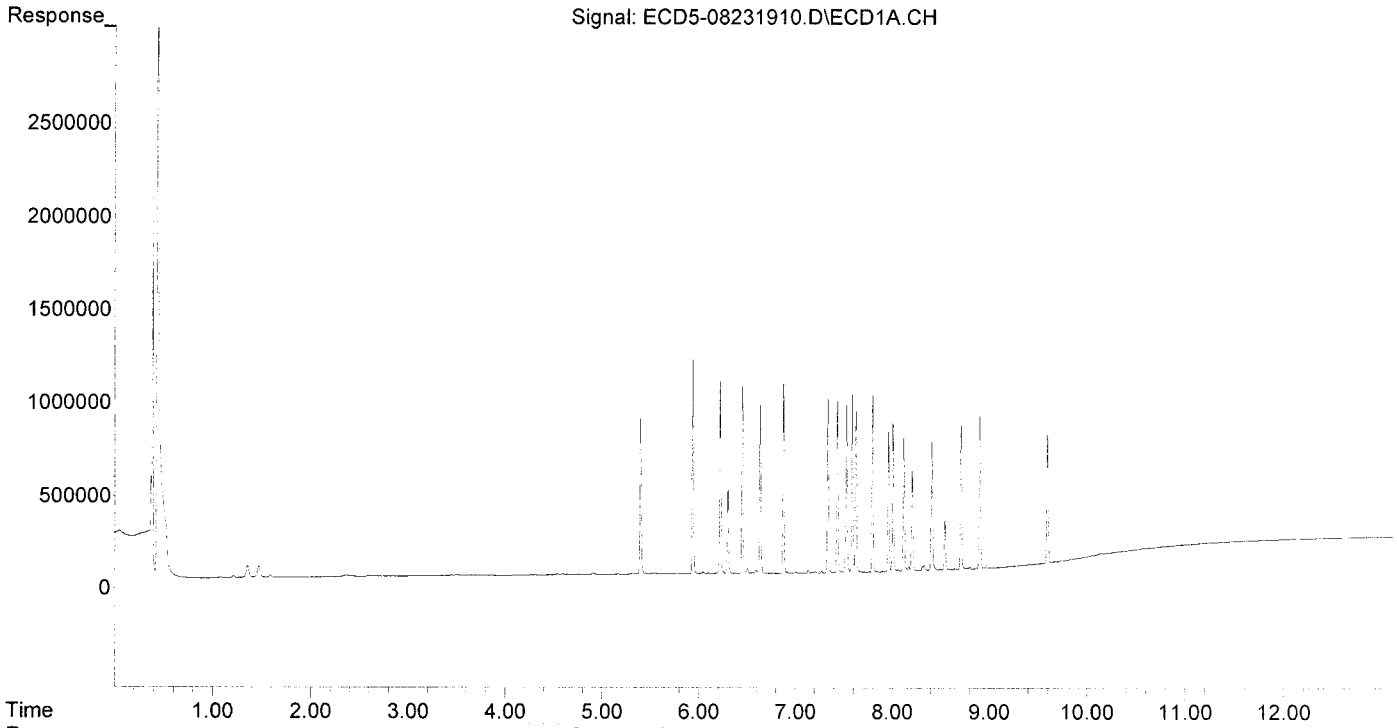
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	834206	1437876	5.026	4.901
22) S DCBP (S)	9.594	10.542	701050	870921	4.969	4.845
Target Compounds						
2) a-BHC	5.937	6.597	1147932	1985438	5.006	4.839
3) g-BHC	6.220	6.915	1020724	1742677	5.059	4.885
4) b-BHC	6.300	6.980	456954	788630	5.056	4.983
5) Heptachlor	6.635	7.291	899091	1508218	4.959	4.929
6) d-BHC	6.449	7.233	1004012	1717450	5.105	4.870
7) Aldrin	6.875	7.556	1012733	1600995	5.129	4.860
8) Heptachlo...	7.335	7.994	923620	1455941	5.015	4.839
9) trans-Chl...	7.432	8.134	926577	1502119	5.011	4.794
10) cis-Chlor...	7.528	8.241	908795	1434855	4.991	4.927
11) Endosulfa...	7.624	8.290	861509	1327191	5.062	4.823
12) 4,4'-DDE	7.586	8.345	953351	1487999	5.057	4.790
13) Dieldrin	7.796	8.491	972009	1462538	5.063	4.809
14) Endrin	7.960	8.718	738953	1092877	5.026	4.839
15) 4,4'-DDD	8.007	8.759	790498	1208642	5.031	4.717
16) Endosulfa...	8.118	8.865	709544	1096359	4.941	4.754
17) 4,4'-DDT	8.205	8.986	553009	873653	4.625	5.010
18) Endrin Al...	8.407	9.101	683393	1045869	4.834	4.849
19) Endosulfa...	8.708	9.291	768798	1175908	4.961	4.721
20) Methoxychlor	8.542	9.466	270388	413802	4.616	4.904
21) Endrin Ke...	8.901	9.689	811384	1205004	4.866	4.683
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.782	0.000	4389	0	0.025	N.D. #
25) Oxychlordane	7.271	0.000	11672	0	0.071	N.D. #
26) 2,4'-DDE	7.335	8.134	923620	1502119	7.201	7.081
27) trans-Non...	7.528	0.000	908795	0	4.756	N.D. #
28) 2,4'-DDD	0.000	8.491	0	1462538	N.D.	7.744 #
29) 2,4'-DDT	7.894	8.718	3329	1092877	0.030	6.128 #
30) cis-Nonac...	8.007f	8.759	790498	1208642	3.808	3.603
31) Mirex	8.645	9.689	4292	1205004	0.034	6.476 #
32) Chlordane...	7.432	8.134	926577	1502119	47.059	41.513
33) Chlordane...	7.528	8.241	908795	1434855	36.259	47.255
34) Chlordane...	8.063	8.903	7555	42265	1.307	4.714 #
35) Chlordane...	3.446	0.000	4904	0	NoCal	N.D.
36) Toxaphene...	7.528f	8.491f	908795	1462538	1014.680	557.315 #
37) Toxaphene...	7.796	0.000	972009	0	601.886	N.D. #
38) Toxaphene...	8.118	8.865	709544	1096359	210.704	216.316
39) Toxaphene...	8.328	8.903	27348	42265	8.440	5.062 #
40) Toxaphene...	8.542f	9.101	270388	1045869	112.796	224.418 #
41) Toxaphene...	8.645	9.466	4292	413802	1.356	87.113 #
42) Toxaphene...	3.446	0.000	4904	0	NoCal	N.D.

MJB  
8/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231910.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 14:25  
Operator : MJB  
Sample : 9H23034-CAL3  
Misc : A19E247, AB 5 ppb  
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:00:25 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231911.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 14:42  
 Operator : MJB  
 Sample : 9H23034-CAL4  
 Misc : A19E249, AB 10 ppb  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:00:36 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

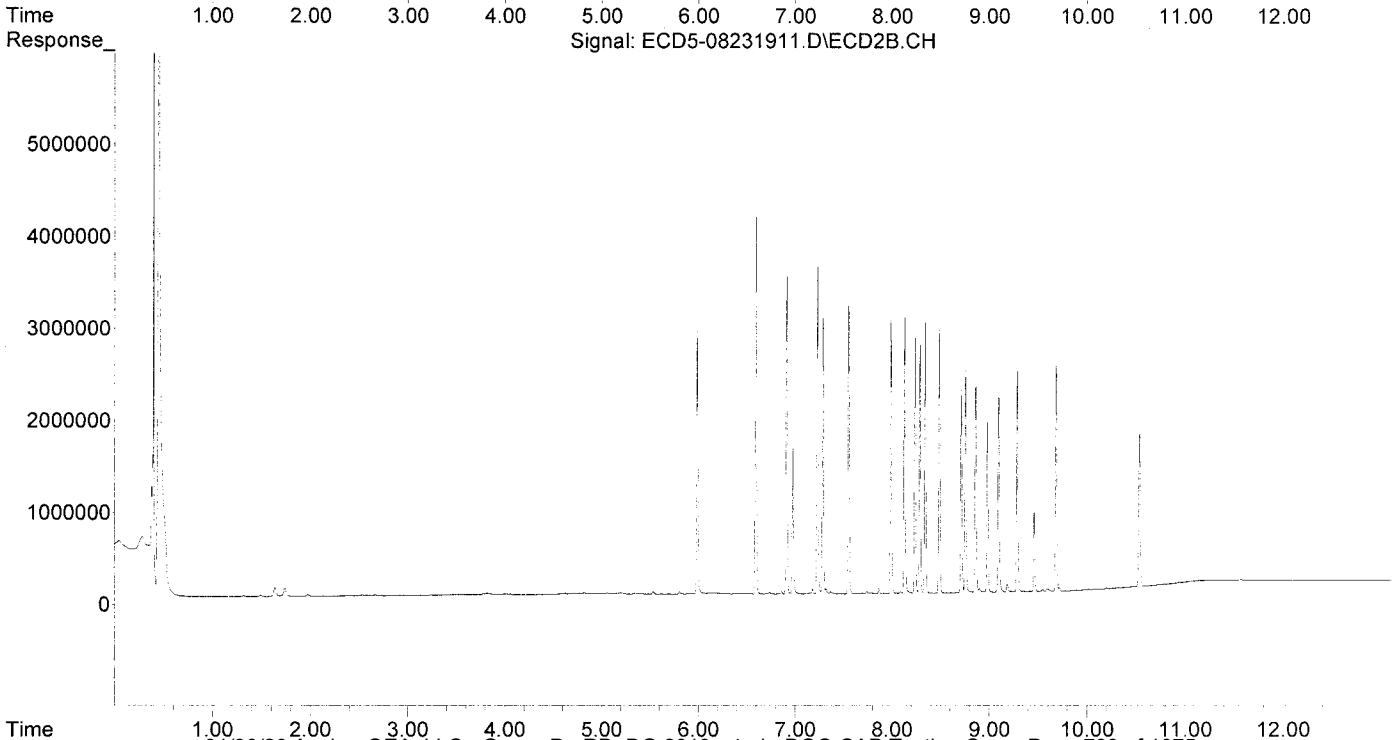
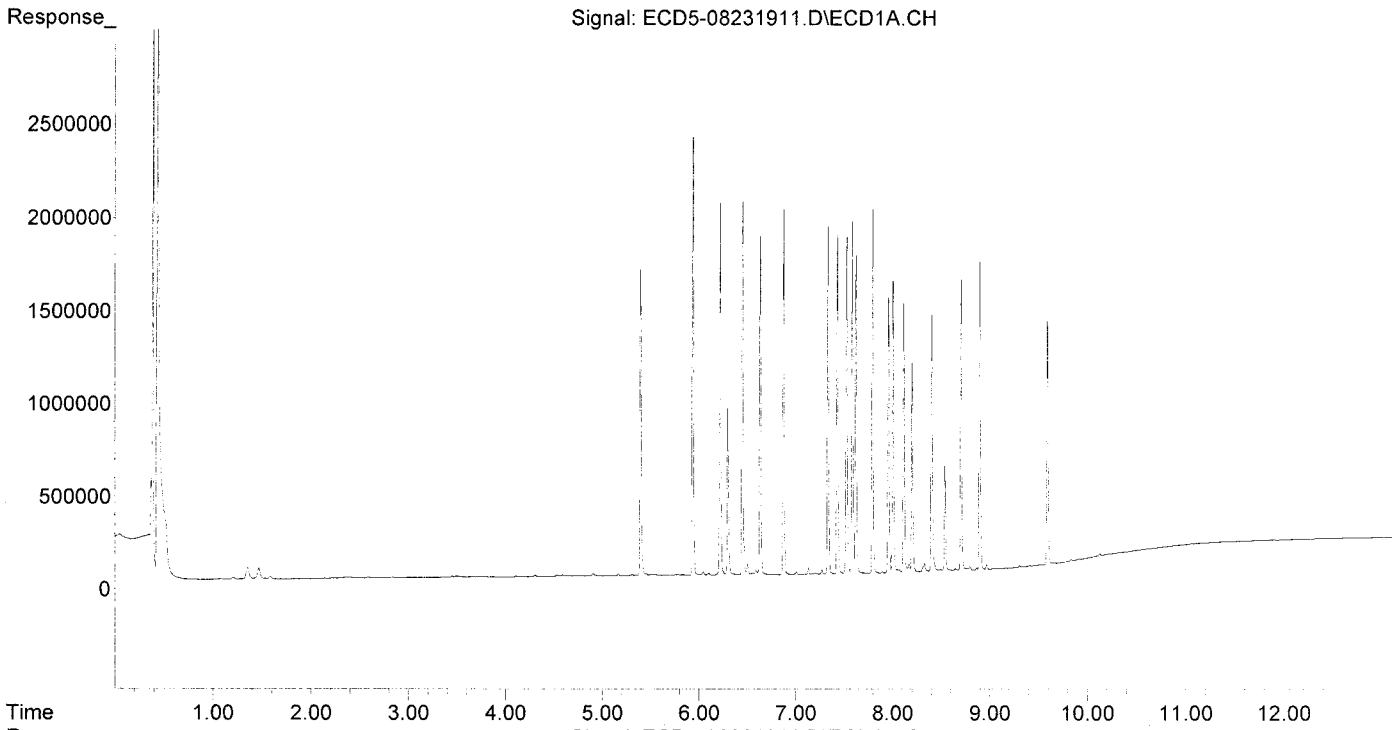
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	1644447	2865854	9.908	9.769
22) S DCBP (S)	9.593	10.541	1335468	1678728	9.465	9.339
Target Compounds						
2) a-BHC	5.936	6.597	2347065	4095890	10.234	9.982
3) g-BHC	6.220	6.915	2034859	3476733	10.085	9.747
4) b-BHC	6.299	6.980	910875	1580847	10.078	9.989
5) Heptachlor	6.634	7.291	1819621	3005915	10.037	9.824
6) d-BHC	6.449	7.234	2006493	3613517	10.201	10.246
7) Aldrin	6.875	7.556	2010802	3341093	10.184	10.143
8) Heptachlo...	7.335	7.994	1865428	2959301	10.128	9.837
9) trans-Chl...	7.431	8.134	1847996	3002782	9.995	9.584
10) cis-Chlor...	7.527	8.241	1843346	2859573	10.124	9.818
11) Endosulfa...	7.623	8.291	1709332	2724272	10.044	9.900
12) 4,4'-DDE	7.585	8.346	1890931	3049792	10.030	9.817
13) Dieldrin	7.795	8.491	1954890	2898866	10.183	9.531
14) Endrin	7.960	8.718	1475508	2244483	10.036	9.939
15) 4,4'-DDD	8.006	8.760	1565974	2425496	9.965	9.467
16) Endosulfa...	8.117	8.864	1448080	2243610	10.083	9.729
17) 4,4'-DDT	8.204	8.987	1146556	1841119	9.590	10.491
18) Endrin Al...	8.406	9.101	1375129	2125028	10.716	10.650
19) Endosulfa...	8.707	9.292	1553540	2424584	10.024	9.734
20) Methoxychlor	8.542	9.465	561706	883069	9.590	10.543
21) Endrin Ke...	8.900	9.689	1664380	2496985	9.981	9.704
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.781	0.000	6414	0	0.036	N.D. #
25) Oxychlorane	7.271	0.000	23125	0	0.141	N.D. #
26) 2,4'-DDE	7.335	8.134	1865428	3002782	14.544	14.155
27) trans-Non...	7.527	0.000	1843346	0	9.974	N.D. #
28) 2,4'-DDD	0.000	8.491	0	2898866	N.D.	15.349 #
29) 2,4'-DDT	7.893	8.718	6940	2244483	0.063	12.585 #
30) cis-Nonac...	8.006f	8.760	1565974	2425496	7.543	7.231
31) Mirex	8.644	9.689	9584	2496985	0.076	13.419 #
32) Chlordane...	7.431	8.134	1847996	3002782	93.856	82.985
33) Chlordane...	7.527	8.241	1843346	2859573	73.545	94.176
34) Chlordane...	8.062	8.903	15147	46214	2.620	5.154 #
35) Chlordane...	3.446	0.000	4445	0	NoCal	N.D.
36) Toxaphene...	7.527f	8.491f	1843346	2898866	2058.116	1104.642 #
37) Toxaphene...	7.795	0.000	1954890	0	1210.504	N.D. #
38) Toxaphene...	8.117	8.864	1448080	2243610	430.018	442.674
39) Toxaphene...	8.328	8.903	47046	46214	14.520	5.535 #
40) Toxaphene...	8.542f	9.101	561706	2125028	234.323	455.980 #
41) Toxaphene...	8.644	9.465	9584	883069	3.029	185.901 #
42) Toxaphene...	3.446	0.000	4445	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231911.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 14:42  
Operator : MJB  
Sample : 9H23034-CAL4  
Misc : A19E249, AB 10 ppb  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:00:36 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231912.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:00  
 Operator : MJB  
 Sample : 9H23034-CAL5  
 Misc : A19E250, AB 25 ppb  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:01:01 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

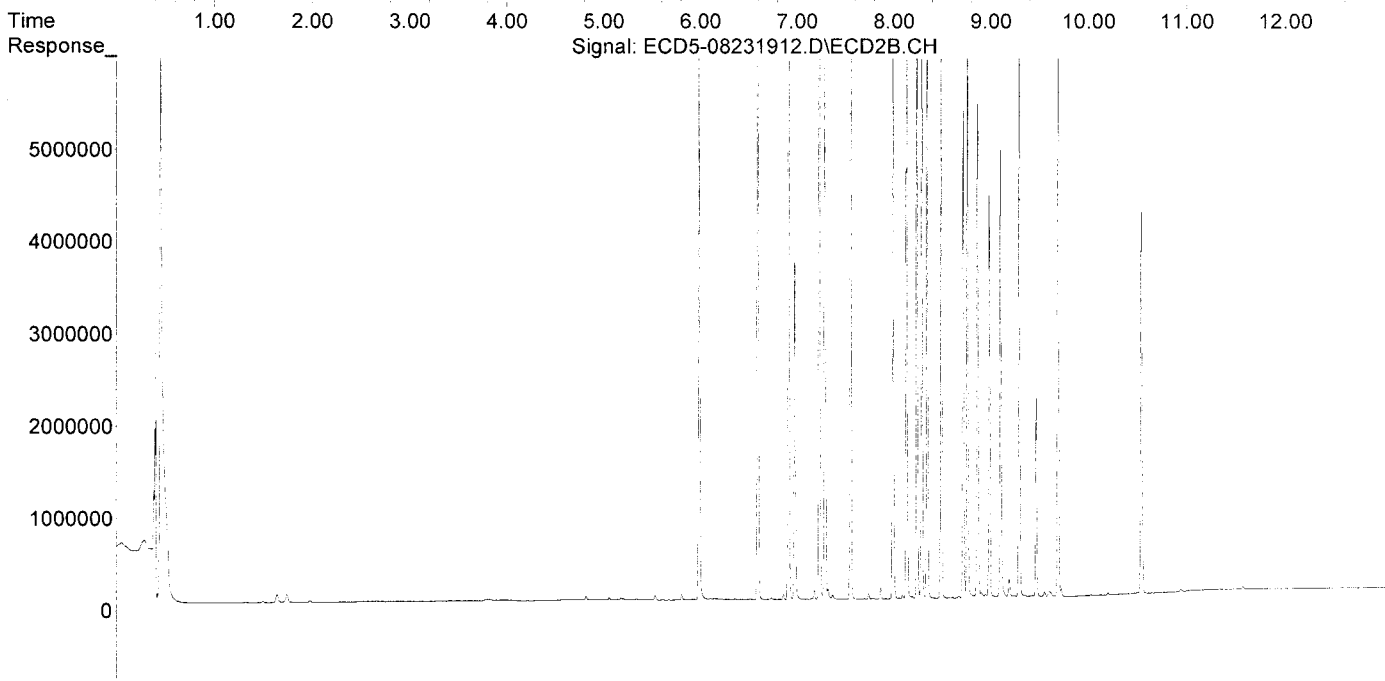
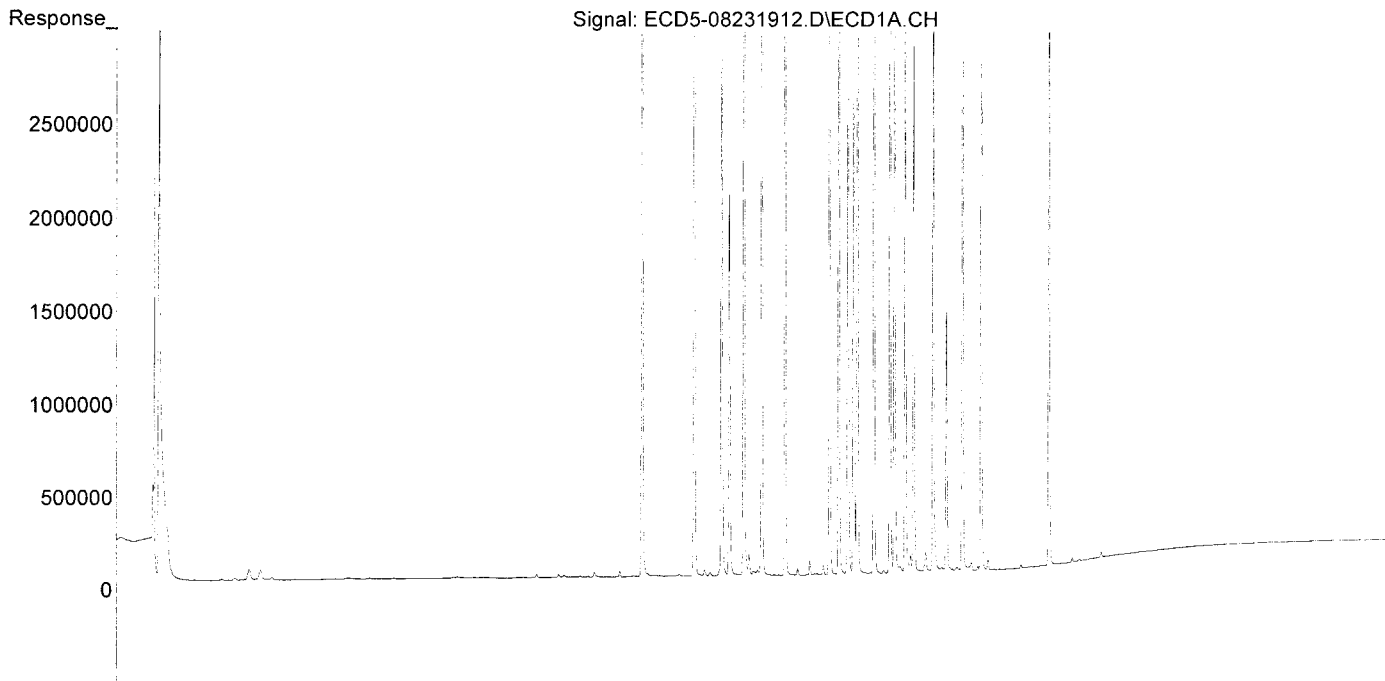
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	4015832	7072923	24.195	24.109
22) S DCBP (S)	9.592	10.539	3342634	4163229	23.690	23.160
Target Compounds						
2) a-BHC	5.935	6.596	5553096	9910863	24.215	24.153
3) g-BHC	6.218	6.913	4875657	8508386	24.164	23.853
4) b-BHC	6.297	6.978	2060378	3677155	22.796	23.234
5) Heptachlor	6.633	7.289	4314306	7282282	23.797	23.800
6) d-BHC	6.447	7.232	4667166	8247775	23.729	23.387
7) Aldrin	6.873	7.555	4845355	7878574	24.540	23.919
8) Heptachlo...	7.332	7.992	4344286	7064729	23.587	23.483
9) trans-Chl...	7.429	8.131	4401456	7157480	23.806	22.844
10) cis-Chlor...	7.525	8.239	4244413	6935857	23.312	23.814
11) Endosulfa...	7.621	8.288	4111285	6571512	24.158	23.881
12) 4,4'-DDE	7.583	8.343	4571066	7501047	24.246	24.144
13) Dieldrin	7.792	8.489	4582306	7333890	23.869	24.113
14) Endrin	7.957	8.716	3508904	5325883	23.866	23.584
15) 4,4'-DDD	8.004	8.758	3727035	6146469	23.718	23.990
16) Endosulfa...	8.115	8.862	3371864	5447602	23.479	23.623
17) 4,4'-DDT	8.202	8.984	2924467	4480388	24.460	24.907
18) Endrin Al...	8.404	9.099	3119767	4848504	25.346	24.953
19) Endosulfa...	8.705	9.289	3645411	5978906	23.522	24.003
20) Methoxychlor	8.540	9.463	1390283	2166659	23.735	25.322
21) Endrin Ke...	8.899	9.688	4008958	5893691	24.041	22.904
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.779	0.000	7817	0	0.044	N.D. #
25) Oxychlordane	7.269	0.000	51278	0	0.312	N.D. #
26) 2,4'-DDE	7.332	8.131	4344286	7157480	33.871	33.740
27) trans-Non...	7.525	8.192	4244413	24831	23.380	0.082 #
28) 2,4'-DDD	0.000	8.489	0	7333890	N.D.	38.832 #
29) 2,4'-DDT	7.891	8.716	15573	5325883	0.142	29.864 #
30) cis-Nonac...	8.004	8.758	3727035	6146469	17.952	18.323
31) Mirex	8.651	9.688	18145	5893691	0.145	31.674 #
32) Chlordane...	7.429	8.131	4401456	7157480	223.542	197.805
33) Chlordane...	7.525	8.239	4244413	6935857	169.341	228.423
34) Chlordane...	8.059	8.901	33094	57884	5.724	6.456
35) Chlordane...	3.446	0.000	4689	0	NoCal	N.D.
36) Toxaphene...	7.525f	8.489f	4244413	7333890	4738.933	2794.653 #
37) Toxaphene...	7.792	0.000	4582306	0	2837.449	N.D. #
38) Toxaphene...	8.115	8.862	3371864	5447602	1001.299	1074.835
39) Toxaphene...	8.326f	8.901	104762	57884	32.332	6.932 #
40) Toxaphene...	8.540f	9.099	1390283	4848504	579.975	1040.371 #
41) Toxaphene...	8.651	9.463	18145	2166659	5.734	456.119 #
42) Toxaphene...	3.446	0.000	4689	0	NoCal	N.D.

NB  
(2611)

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231912.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:00  
Operator : MJB  
Sample : 9H23034-CAL5  
Misc : A19E250, AB 25 ppb  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:01:01 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:17  
 Operator : MJB  
 Sample : 9H23034-CAL6  
 Misc : A19H383, AB 50 ppb  
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:01:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	8071481	14196745	48.631	48.392
22) S DCBP (S)	9.592	10.541	6678990	8730692	47.336	48.568
Target Compounds						
2) a-BHC	5.935	6.596	11369592	20265817	49.578	49.388
3) g-BHC	6.218	6.914	9785999	17381069	48.499	48.727
4) b-BHC	6.296	6.978	4100858	7516011	45.372	47.490
5) Heptachlor	6.632	7.290	8735158	14595143	48.182	47.700
6) d-BHC	6.447	7.232	9610742	17311258	48.862	49.087
7) Aldrin	6.873	7.555	9327672	16264416	47.242	49.377
8) Heptachlo...	7.332	7.992	8869300	14837794	48.156	49.320
9) trans-Chl...	7.428	8.131	8959305	14678719	48.457	46.848
10) cis-Chlor...	7.524	8.238	8622674	14002116	47.359	48.076
11) Endosulfa...	7.621	8.289	7984410	13712329	46.917	49.831
12) 4,4'-DDE	7.583	8.344	9177389	15554706	48.679	50.067
13) Dieldrin	7.792	8.489	9386664	15434113	48.894	50.745
14) Endrin	7.957	8.716	6979572	11015379	47.471	48.778
15) 4,4'-DDD	8.004	8.758	7726197	13159451	49.167	51.361
16) Endosulfa...	8.114	8.863	6840920	11534525	47.635	50.018
17) 4,4'-DDT	8.202	8.985	6205369	9285492	51.902	49.430
18) Endrin Al...	8.404	9.099	6224451	10209034	50.697	51.836
19) Endosulfa...	8.705	9.289	7420576	12149289	47.882	48.775
20) Methoxychlor	8.540	9.464	2860683	4346199	48.839	48.597
21) Endrin Ke...	8.899	9.687	8190707	12954568	49.117	50.345
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.777	6.487f	17034	6623	0.097	0.021 #
25) Oxychlordane	7.268	7.916	93115	13858	0.566	0.051 #
26) 2,4'-DDE	7.332	8.131	8869300	14678719	69.150	69.194
27) trans-Non...	7.524	8.193	8622674	44541	47.838	0.148 #
28) 2,4'-DDD	7.705	8.489	15706	15434113	0.138	81.721 #
29) 2,4'-DDT	7.890	8.716	32276	11015379	0.294	61.766 #
30) cis-Nonac...	8.004	8.758	7726197	13159451	37.214	39.229
31) Mirex	8.653	9.687	33100	12954568	0.264	69.621 #
32) Chlordane...	7.428	8.131	8959305	14678719	455.027	405.662
33) Chlordane...	7.524	8.238	8622674	14002116	344.022	461.141
34) Chlordane...	8.059	8.901	56505	76664	9.774	8.551
35) Chlordane...	3.445	0.000	3954	0	NoCal	N.D.
36) Toxaphene...	7.524f	8.489f	8622674	15434113	9627.309	5881.324
37) Toxaphene...	7.792	8.823	9386664	45987	5812.397	13.973 #
38) Toxaphene...	8.114	8.863	6840920	11534525	2031.460	2275.810
39) Toxaphene...	8.325f	8.901	190344	76664	58.746	9.182 #
40) Toxaphene...	8.540f	9.099	2860683	10209034	1193.372	2190.611 #
41) Toxaphene...	8.653	9.464	33100	4346199	10.460	914.950 #
42) Toxaphene...	3.445	0.000	3954	0	NoCal	N.D.

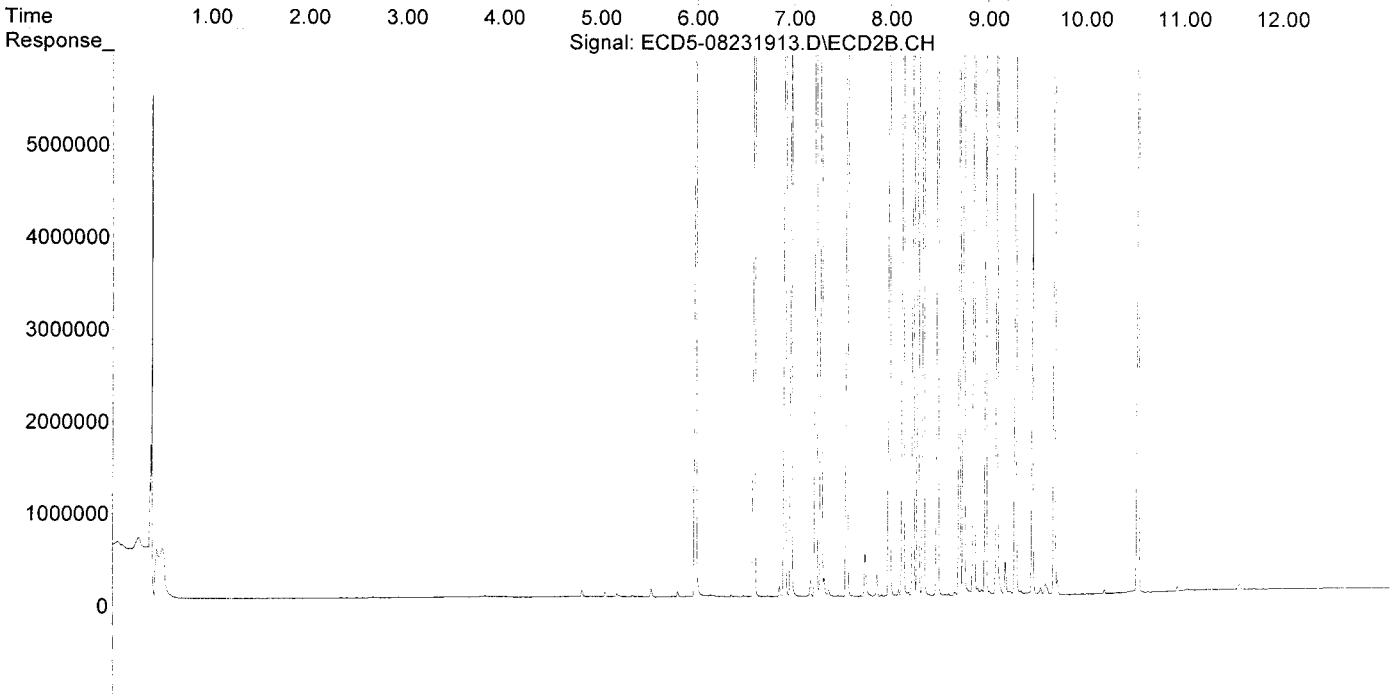
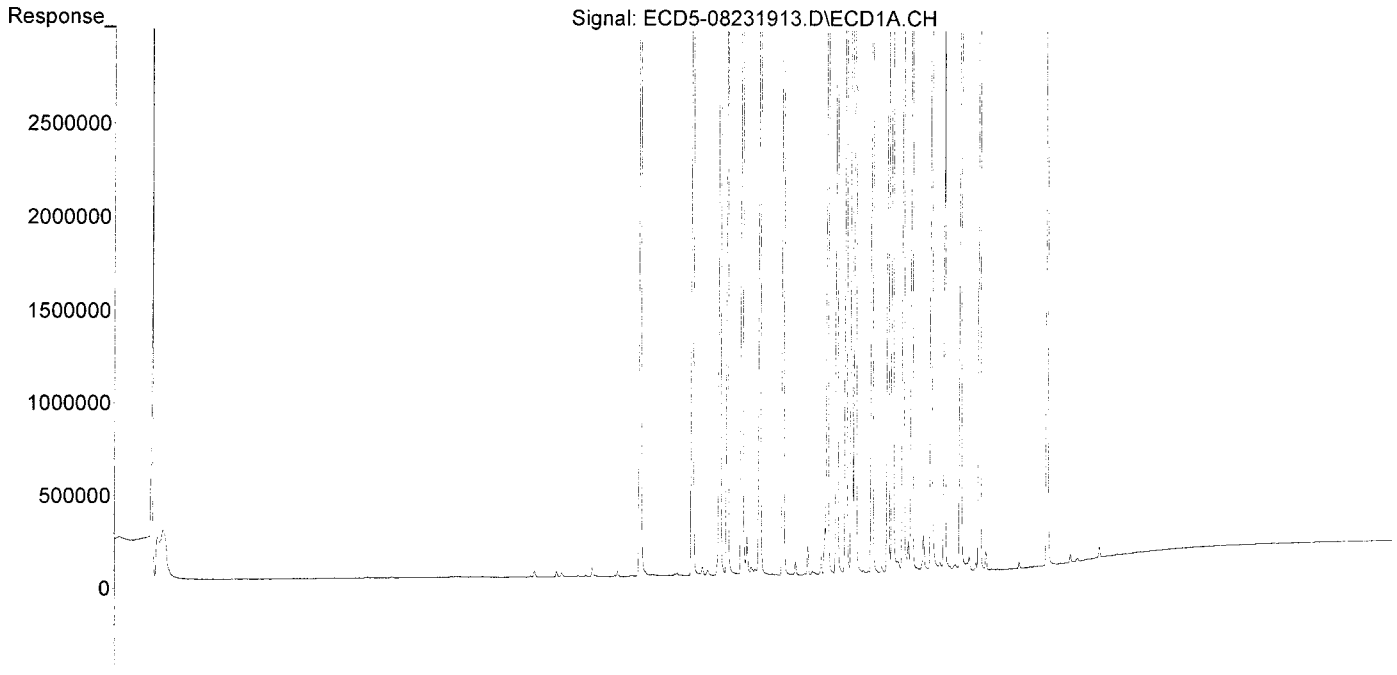
MJB 8/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:17  
Operator : MJB  
Sample : 9H23034-CAL6  
Misc : A19H383, AB 50 ppb  
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:01:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231914.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:34  
 Operator : MJB  
 Sample : 9H23034-CAL7  
 Misc : A19H382, AB 100 ppb  
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:01:22 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

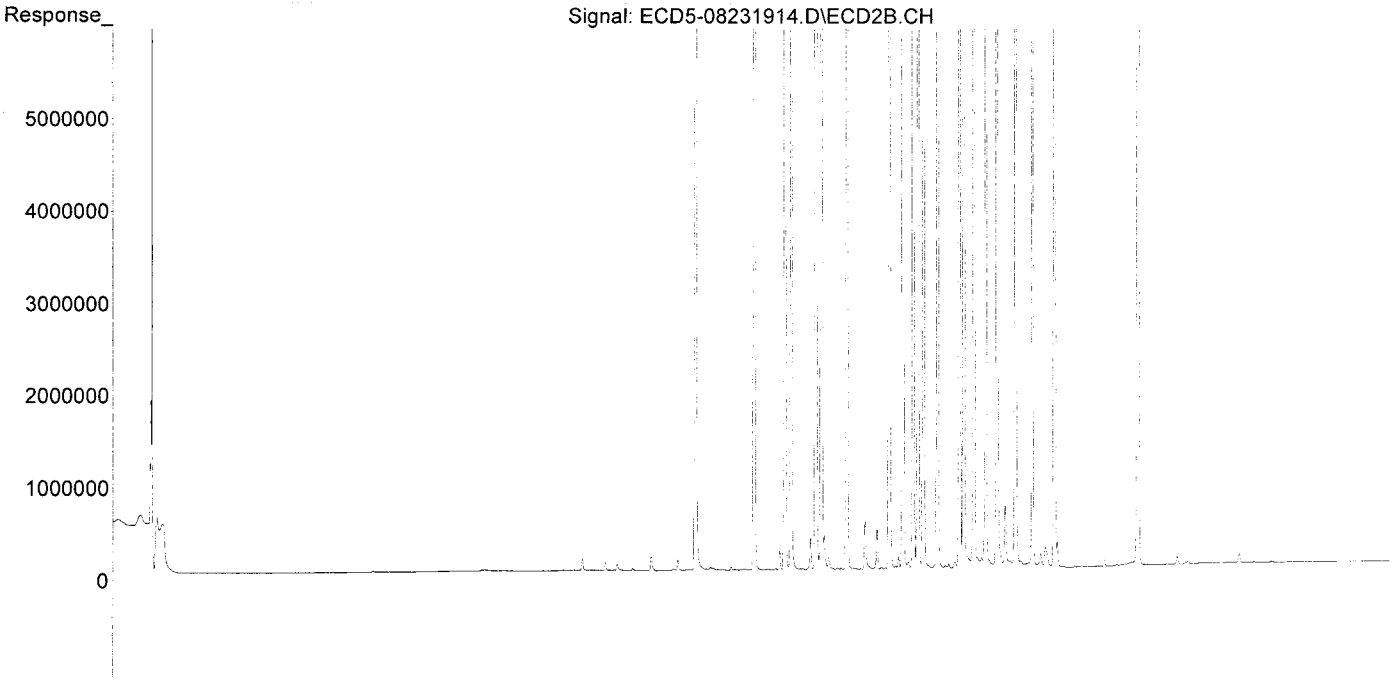
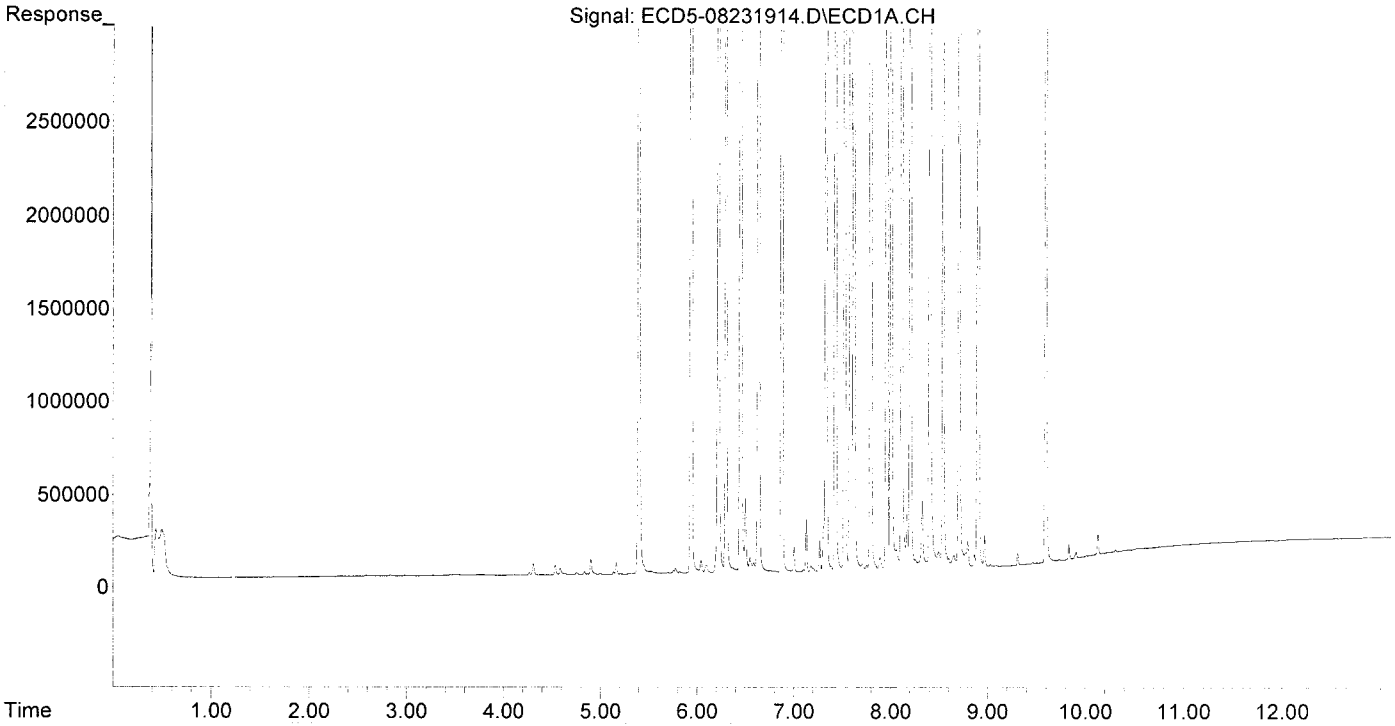
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.395	5.989	15850922	29256334	95.502	99.726
22) S DCBP (S)	9.592	10.540	13405396	17784069	95.007	98.931
Target Compounds						
2) a-BHC	5.935	6.596	22363584	41699210	97.517	101.621
3) g-BHC	6.218	6.914	19595093	36788994	97.113	103.136
4) b-BHC	6.296	6.977	8355416	14625175	92.444	92.409
5) Heptachlor	6.632	7.289	17551528	30277818	96.811	98.955
6) d-BHC	6.446	7.232	19475580	35176633	99.016	99.745
7) Aldrin	6.872	7.555	19108074	33906422	96.776	102.936
8) Heptachlo...	7.331	7.991	17318444	30045511	94.031	99.869
9) trans-Chl...	7.427	8.131	17732791	30742272	95.909	98.116
10) cis-Chlor...	7.523	8.238	16742584	29042863	91.956	99.719
11) Endosulfa...	7.619	8.288	16089996	27212707	94.547	98.892
12) 4,4'-DDE	7.582	8.344	18052552	32499603	95.754	104.609
13) Dieldrin	7.791	8.488	18324422	31001958	95.450	101.930
14) Endrin	7.957	8.715	13812708	23102413	93.947	102.301
15) 4,4'-DDD	8.003	8.758	15437146	26297484	98.238	102.639
16) Endosulfa...	8.113	8.861	13543500	23016371	94.307	99.808
17) 4,4'-DDT	8.201	8.984	12176961	19789501	101.848	97.215
18) Endrin Al...	8.403	9.098	12363806	20502737	98.526	99.562
19) Endosulfa...	8.704	9.289	14366789	24477320	92.702	98.268
20) Methoxychlor	8.539	9.463	5877329	9444987	100.340	96.538
21) Endrin Ke...	8.898	9.687	16251943	26636559	97.458	103.517
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.777	0.000	29252	0	0.166	N.D. #
25) Oxychlorane	7.267	7.915	165864	25145	1.008	0.092 #
26) 2,4'-DDE	7.331	8.131	17318444	30742272	135.025	144.916
27) trans-Non...	7.523	8.192	16742584	77338	93.233	0.256 #
28) 2,4'-DDD	7.704	8.488	32176	31001958	0.282	164.150 #
29) 2,4'-DDT	7.889	8.715	66298	23102413	0.604	129.542 #
30) cis-Nonac...	8.003	8.758	15437146	26297484	74.355	78.395
31) Mirex	8.651	9.687	63592	26636559	0.507	143.151 #
32) Chlordane...	7.427	8.131	17732791	30742272	900.616	849.596
33) Chlordane...	7.523	8.238	16742584	29042863	667.985	956.488 #
34) Chlordane...	8.059	8.899	102306	115089	17.697	12.836
35) Chlordane...	3.447	0.000	5362	0	NoCal	N.D.
36) Toxaphene...	7.523f	8.488f	16742584	31001958	18693.275	11813.609
37) Toxaphene...	7.791	0.000	18324422	0	11346.823	N.D. #
38) Toxaphene...	8.113	8.861	13543500	23016371	4021.839	4541.226
39) Toxaphene...	8.324f	8.899	362066	115089	111.744	13.783 #
40) Toxaphene...	8.598f	9.098	51910	20502737	21.655	4399.391 #
41) Toxaphene...	8.651	9.463	63592	9444987	20.095	1988.334 #
42) Toxaphene...	3.447	0.000	5362	0	NoCal	N.D.

MJB  
6/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231914.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:34  
Operator : MJB  
Sample : 9H23034-CAL7  
Misc : A19H382, AB 100 ppb  
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:01:22 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231915.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:52  
 Operator : MJB  
 Sample : 9H23034-CAL8  
 Misc : A19E244, AB 200 ppb  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:01:32 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.990	32842535	62584449	197.876	213.332
22) S DCBP (S)	9.591	10.539	26975231	38097779	191.180	211.933
Target Compounds						
2) a-BHC	5.935	6.597	47202252	94376748	205.828	229.997
3) g-BHC	6.218	6.914	41889726	80765680	207.604	226.422
4) b-BHC	6.294	6.977	18238696	32553433	201.792	205.688
5) Heptachlor	6.630	7.289	37785699	71283176	208.419	232.969
6) d-BHC	6.445	7.232	41016592	80979751	208.534	229.622
7) Aldrin	6.870	7.554	39838403	73228186	201.769	222.313
8) Heptachlo...	7.330	7.991	36258170	65330070	196.864	217.153
9) trans-Chl...	7.425	8.130	37621413	66447972	203.478	212.073
10) cis-Chlor...	7.521	8.238	35207945	63977063	193.375	219.666
11) Endosulfa...	7.618	8.288	33852593	61043507	198.922	221.834
12) 4,4'-DDE	7.581	8.344	38763081	69842351	205.607	224.807
13) Dieldrin	7.791	8.489	39217772	70031781	204.281	230.254
14) Endrin	7.955	8.715	31426311	52779585	213.745	233.717
15) 4,4'-DDD	8.002	8.758	32436804	59560270	206.419	232.463
16) Endosulfa...	8.112	8.862	29471042	51834888	205.214	224.777
17) 4,4'-DDT	8.200	8.984	29075222	48203441	243.185	202.337
18) Endrin Al...	8.402	9.098	26627672	45084544	200.132	198.781
19) Endosulfa...	8.704	9.289	31126520	54592794	200.845	219.171
20) Methoxychlor	8.537	9.463	14271143	23714100	243.642	203.084
21) Endrin Ke...	8.898	9.688	35094718	60861376	210.452	236.524
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.776	0.000	55469	0	0.315	N.D. #
25) Oxylchlordane	7.265	7.915	336226	30124	2.043	0.110 #
26) 2,4'-DDE	7.330	8.130	36258170	66447972	282.690	313.230
27) trans-Non...	7.521	8.191	35207945	140624	196.641	0.466 #
28) 2,4'-DDD	7.703	8.489	57049	70031781	0.500	370.806 #
29) 2,4'-DDT	7.886	8.715	129876	52779585	1.184	295.950 #
30) cis-Nonac...	8.002	8.758	32436804	59560270	156.235	177.554
31) Mirex	8.651	9.688	103310	60861376	0.824	327.083 #
32) Chlordane...	7.425	8.130	37621413	66447972	1910.724	1836.362
33) Chlordane...	7.521	8.238	35207945	63977063	1404.705	2106.999 #
34) Chlordane...	8.058	8.862f	183720	51834888	31.779	5781.350 #
35) Chlordane...	3.445	0.000	4872	0	NoCal	N.D.
36) Toxaphene...	7.521	8.489f	35207945	70031781	39310.050	26686.316
37) Toxaphene...	7.791	0.000	39217772	0	24284.375	N.D. #
38) Toxaphene...	8.112	8.862	29471042	51834888	8751.637	10227.240
39) Toxaphene...	8.322f	8.943f	634260	207653	195.750	24.869 #
40) Toxaphene...	8.537f	9.098	14271143	45084544	5953.399	9674.052 #
41) Toxaphene...	8.651	9.463	103310	23714100	32.646	4992.230 #
42) Toxaphene...	3.445	0.000	4872	0	NoCal	N.D.

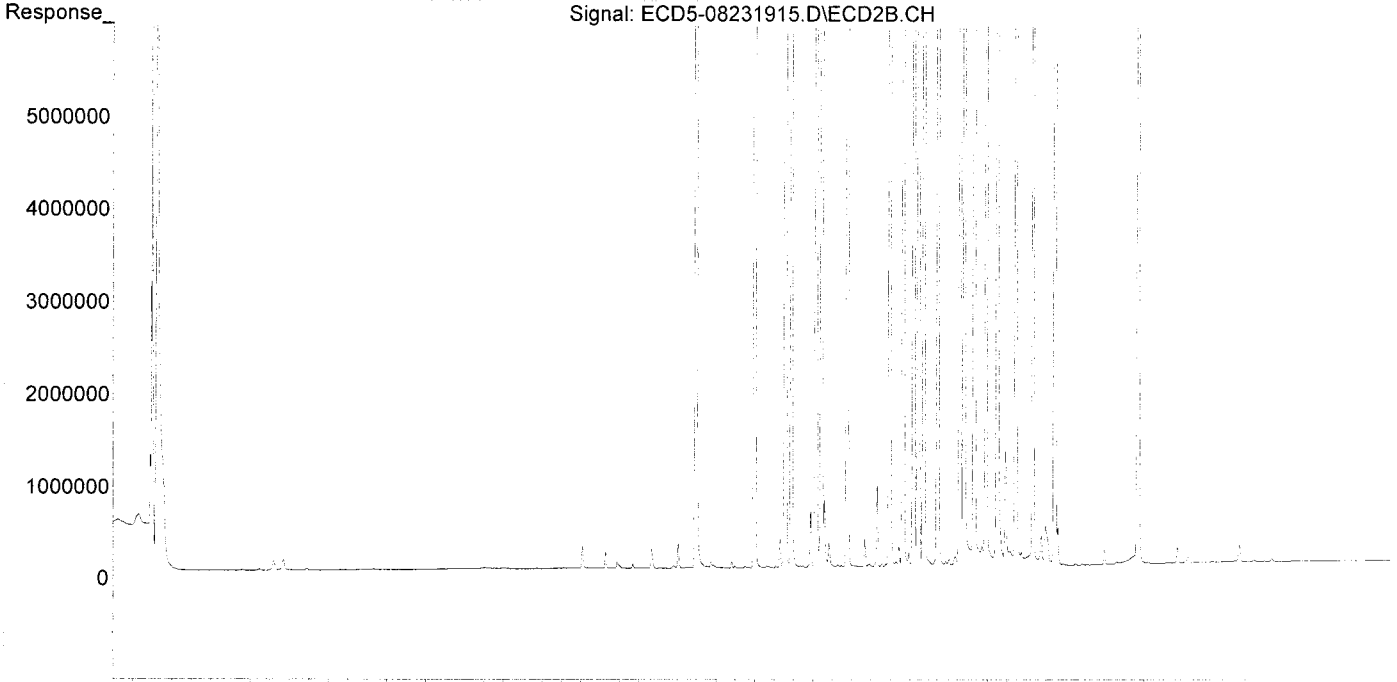
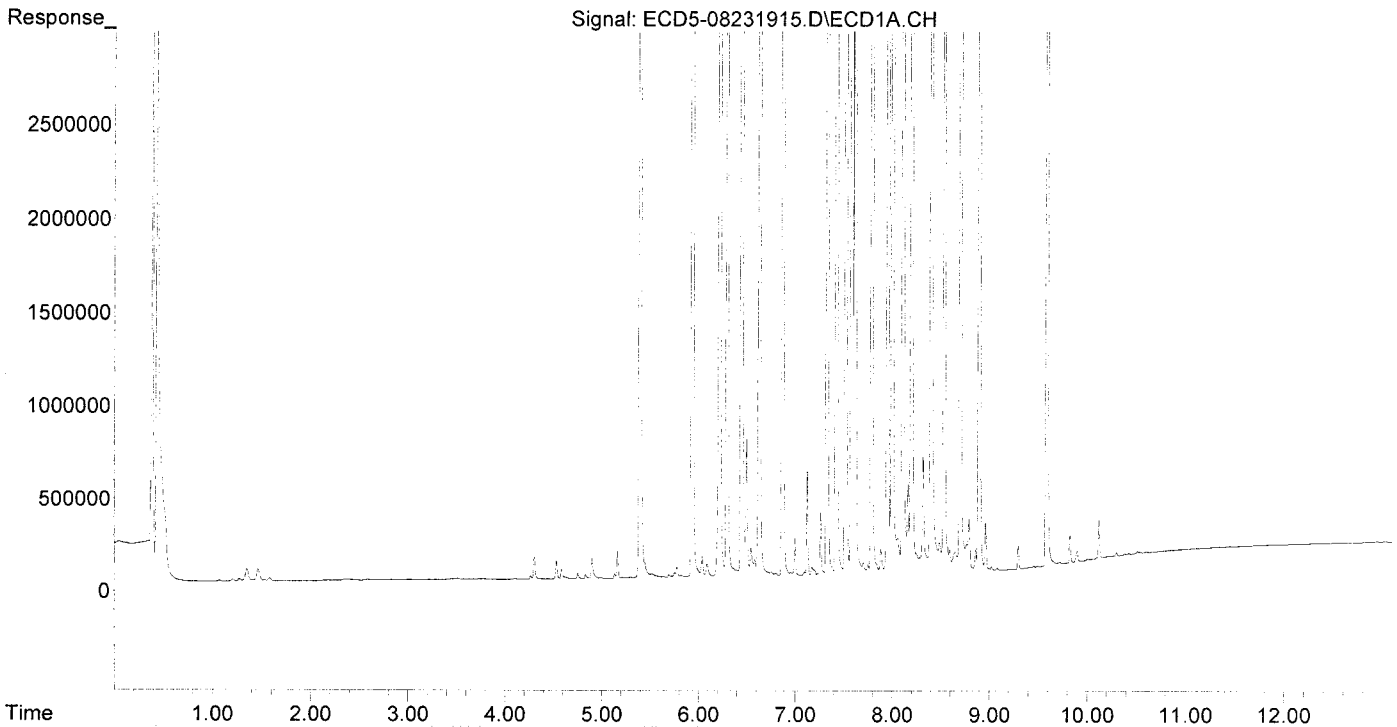
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231915.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:52  
Operator : MJB  
Sample : 9H23034-CAL8  
Misc : A19E244, AB 200 ppb  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:01:32 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231918.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 16:44  
 Operator : MJB  
 Sample : 9H23034-CAL9  
 Misc : A19E272, 9-42 1 ppb  
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:02:15 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

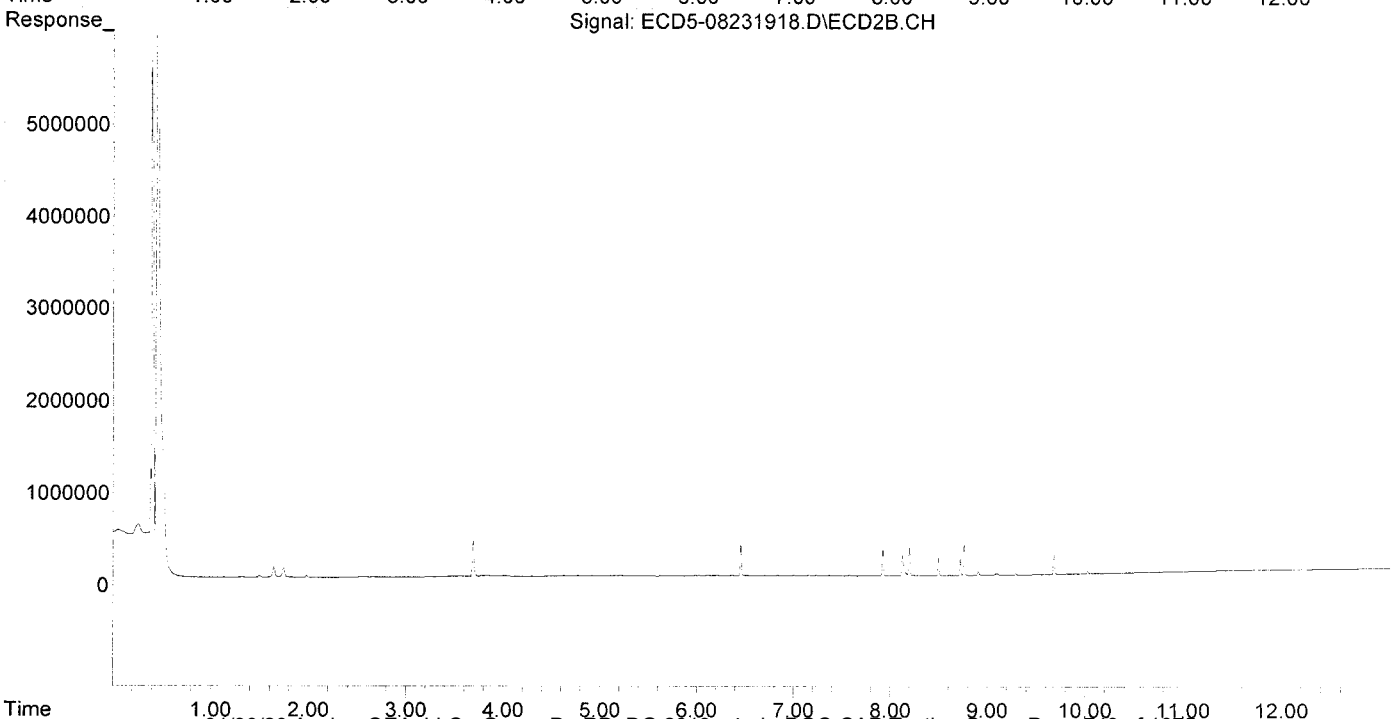
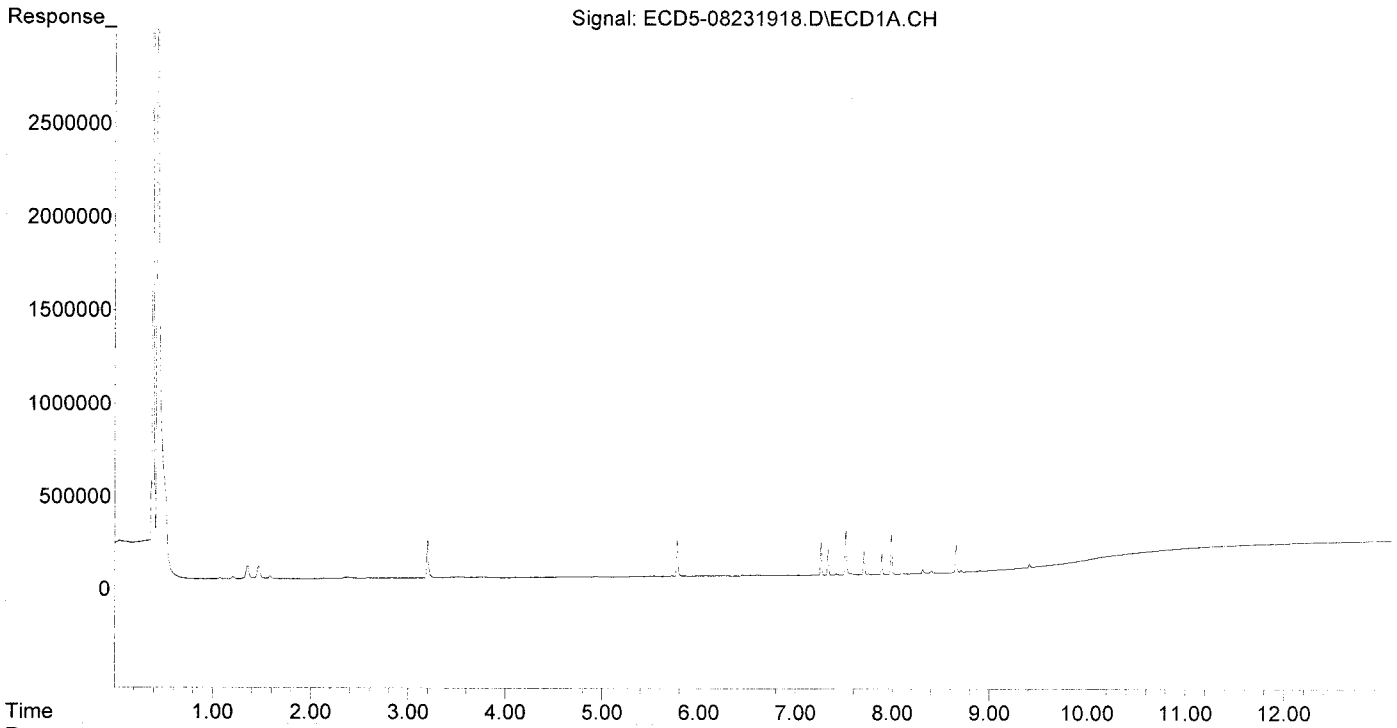
*MJB 8/26/19*

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	6576	N.D.	0.022 #
22) S DCBP (S)	9.593	10.540	2255	5805	0.016	0.032 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.249f	0.000	4648	0	0.023	N.D. #
4) b-BHC	0.000	7.002f	0	7162	N.D.	0.045 #
5) Heptachlor	6.601f	0.000	3572	0	0.020	N.D. #
6) d-BHC	6.449	7.232	5321	8483	0.027	0.024
7) Aldrin	0.000	7.577f	0	8990	N.D.	0.027 #
8) Heptachlo...	7.335	0.000	137947	0	0.749	N.D. #
9) trans-Chl...	7.420	8.123	5532	219164	0.030	0.699 #
10) cis-Chlor...	7.518	0.000	236836	0	1.301	N.D. #
11) Endosulfa...	7.582f	0.000	5522	0	0.032	N.D. #
12) 4,4'-DDE	7.582	0.000	5522	0	0.029	N.D. #
13) Dieldrin	7.755f	8.495	4087	192040	0.021	0.631 #
14) Endrin	7.987f	8.719	219220	173338	1.491	0.768 #
15) 4,4'-DDD	7.987	8.759	219220	332745	1.395	1.299 #
16) Endosulfa...	8.116	8.903f	2586	40443	0.018	0.175 #
17) 4,4'-DDT	8.202	0.000	1027	0	0.009	N.D. #
18) Endrin Al...	8.404	9.099	13122	17799	BelowCal	BelowCal
19) Endosulfa...	8.706	9.290	8041	12118	0.052	0.049
20) Methoxychlor	8.548	0.000	665	0	0.011	N.D. #
21) Endrin Ke...	8.900	9.680	3962	209783	0.024	0.815 #
23) Hexachlor...	3.198	3.687	198207	383198	1.085	1.019
24) Hexachlor...	5.775	6.453	194679	328025	1.104	1.044
25) Oxychlorane	7.263	7.922	176844	279143	1.075	1.019
26) 2,4'-DDE	7.335	8.123	137947	219164	1.076	1.033
27) trans-Non...	7.518	8.195	236836	306202	1.006	1.015
28) 2,4'-DDD	7.707	8.495	120240	192040	1.054	1.017
29) 2,4'-DDT	7.890	8.719	107110	173338	0.977	0.972
30) cis-Nonac...	7.987	8.759	219220	332745	1.056	0.992
31) Mirex	8.655	9.680	147356	209783	1.175	1.127
32) Chlordane...	7.420	8.123	5532	219164	0.281	6.057 #
33) Chlordane...	7.518	0.000	236836	0	9.449	N.D. #
34) Chlordane...	0.000	8.903	0	40443	N.D.	4.511 #
35) Chlordane...	3.444	0.000	4642	0	NoCal	N.D.
36) Toxaphene...	7.518	8.495f	236836	192040	264.430	73.179 #
37) Toxaphene...	7.755f	0.000	4087	0	2.531	N.D. #
38) Toxaphene...	8.116	0.000	2586	0	0.768	N.D. #
39) Toxaphene...	8.312f	8.903	22217	40443	6.857	4.844
40) Toxaphene...	8.548f	9.099	665	17799	0.277	3.819 #
41) Toxaphene...	8.655	0.000	147356	0	46.564	N.D. #
42) Toxaphene...	3.444	0.000	4642	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231918.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 16:44  
Operator : MJB  
Sample : 9H23034-CAL9  
Misc : A19E272, 9-42 1 ppb  
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:02:15 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231919.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:01  
 Operator : MJB  
 Sample : 9H23034-CALA  
 Misc : A19E273, 9-42 2 ppb  
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:02:30 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

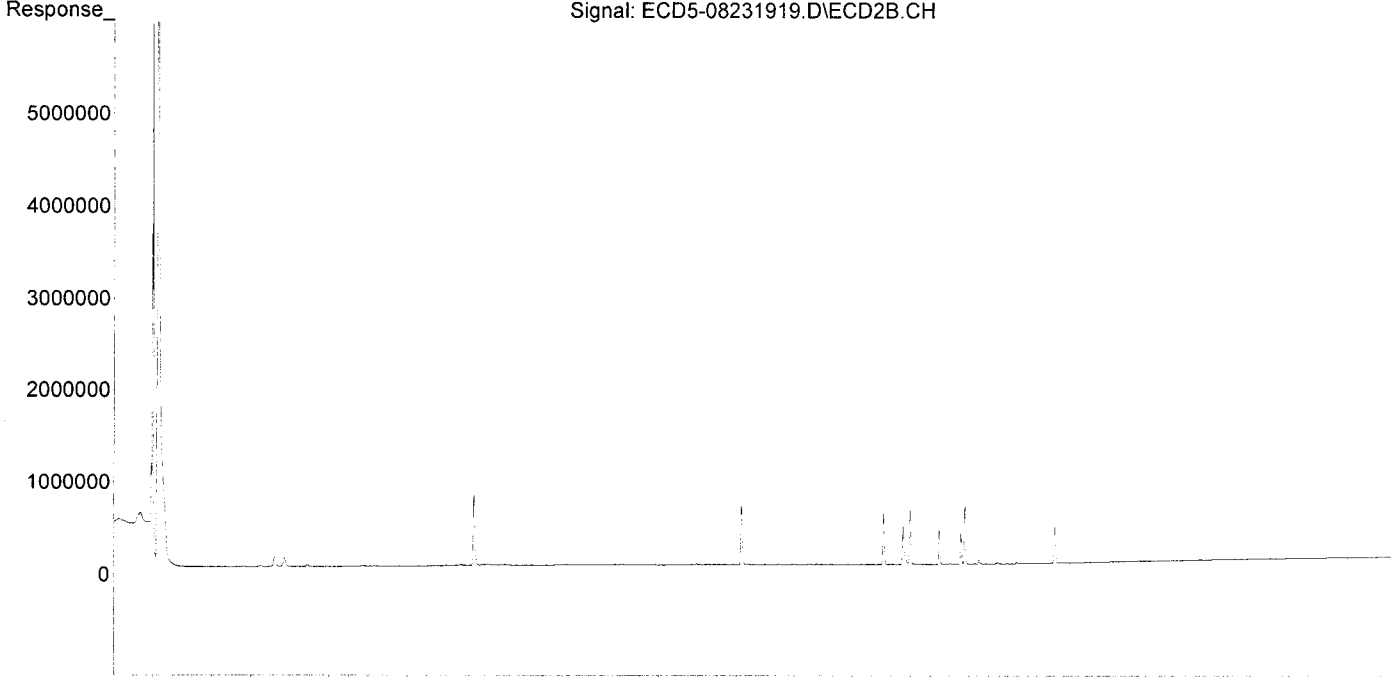
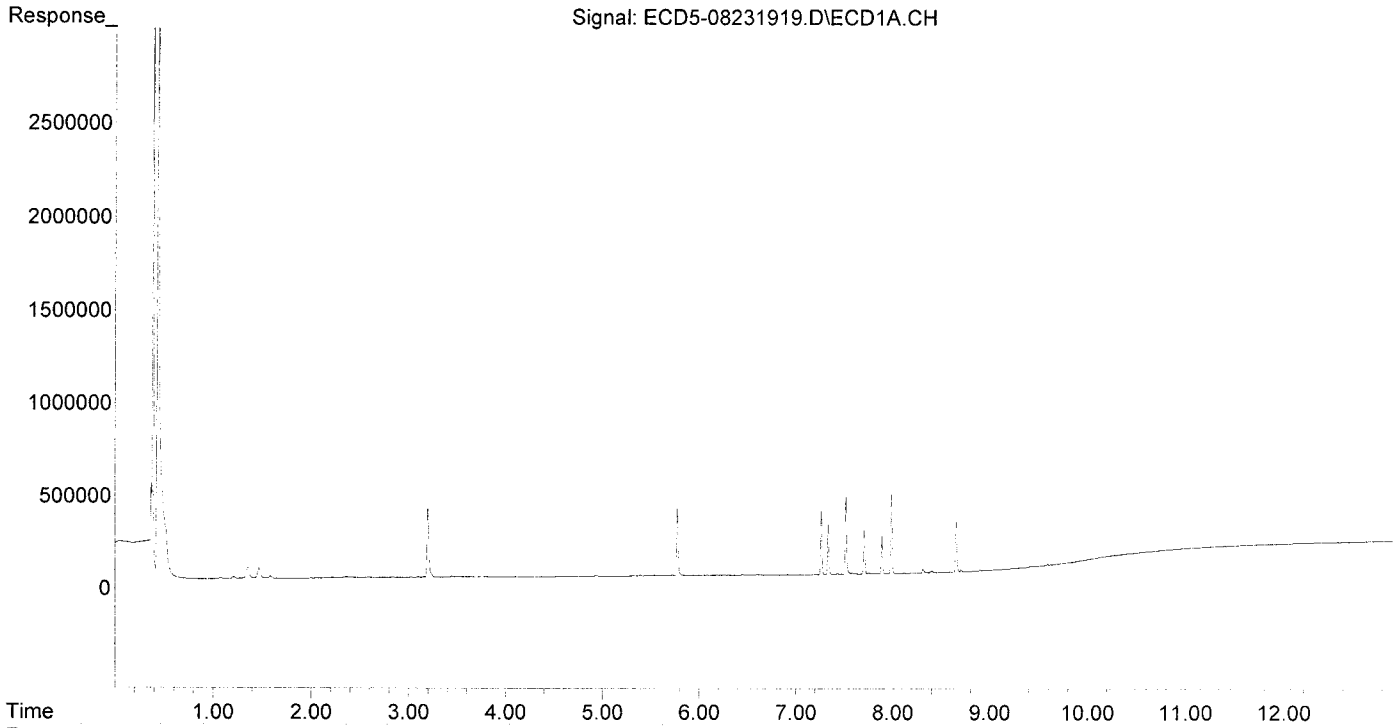
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.986	6323	13044	0.038	0.044
22) S DCBP (S)	9.592	10.539	6116	7474	0.043	0.042
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.248f	0.000	3811	0	0.019	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.631	0.000	3915	0	0.022	N.D. #
6) d-BHC	6.449	7.231	6839	9605	0.035	0.027
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.334	0.000	265212	0	1.440	N.D. #
9) trans-Chl...	7.429	8.123	4955	411812	0.027	1.314 #
10) cis-Chlor...	7.518	0.000	415126	0	2.280	N.D. #
11) Endosulfa...	7.582f	0.000	3811	0	0.022	N.D. #
12) 4,4'-DDE	7.582	0.000	3811	0	0.020	N.D. #
13) Dieldrin	7.754f	8.495	8020	373596	0.042	1.228 #
14) Endrin	7.986f	8.718	423442	332170	2.880	1.471 #
15) 4,4'-DDD	7.986	8.758	423442	624783	2.695	2.439
16) Endosulfa...	8.116	8.862	3733	5461	0.026	0.024
17) 4,4'-DDT	8.200	0.000	1311	0	0.011	N.D. #
18) Endrin Al...	8.405	9.099	11160	14424	BelowCal	BelowCal
19) Endosulfa...	8.705	9.289	10006	14488	0.065	0.058
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.899	9.680	5404	388199	0.032	1.509 #
23) Hexachlor...	3.198	3.687	375794	754548	2.056	2.007
24) Hexachlor...	5.775	6.453	362082	632830	2.054	2.015
25) Oxychlordane	7.262	7.921	339370	541023	2.063	1.975
26) 2,4'-DDE	7.334	8.123	265212	411812	2.068	1.941
27) trans-Non...	7.518	8.194	415126	587765	2.001	1.949
28) 2,4'-DDD	7.707	8.495	233089	373596	2.042	1.978
29) 2,4'-DDT	7.889	8.718	204209	332170	1.862	1.863
30) cis-Nonac...	7.986	8.758	423442	624783	2.040	1.863
31) Mirex	8.655	9.680	266770	388199	2.128	2.086
32) Chlordane...	7.429	8.123	4955	411812	0.252	11.381 #
33) Chlordane...	7.518	0.000	415126	0	16.562	N.D. #
34) Chlordane...	0.000	8.903	0	41985	N.D.	4.683 #
35) Chlordane...	3.444	0.000	5015	0	NoCal	N.D.
36) Toxaphene...	7.518	8.495f	415126	373596	463.493	142.363 #
37) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
38) Toxaphene...	8.116	8.862	3733	5461	1.108	1.077
39) Toxaphene...	8.312f	8.903	22876	41985	7.060	5.028
40) Toxaphene...	0.000	9.099	0	14424	N.D.	3.095 #
41) Toxaphene...	8.655	0.000	266770	0	84.299	N.D. #
42) Toxaphene...	3.444	0.000	5015	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:01  
Operator : MJB  
Sample : 9H23034-CALA  
Misc : A19E273, 9-42 2 ppb  
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:02:30 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231920.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:18  
 Operator : MJB  
 Sample : 9H23034-CALB  
 Misc : A19E274, 9-42 5 ppb  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:02:42 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

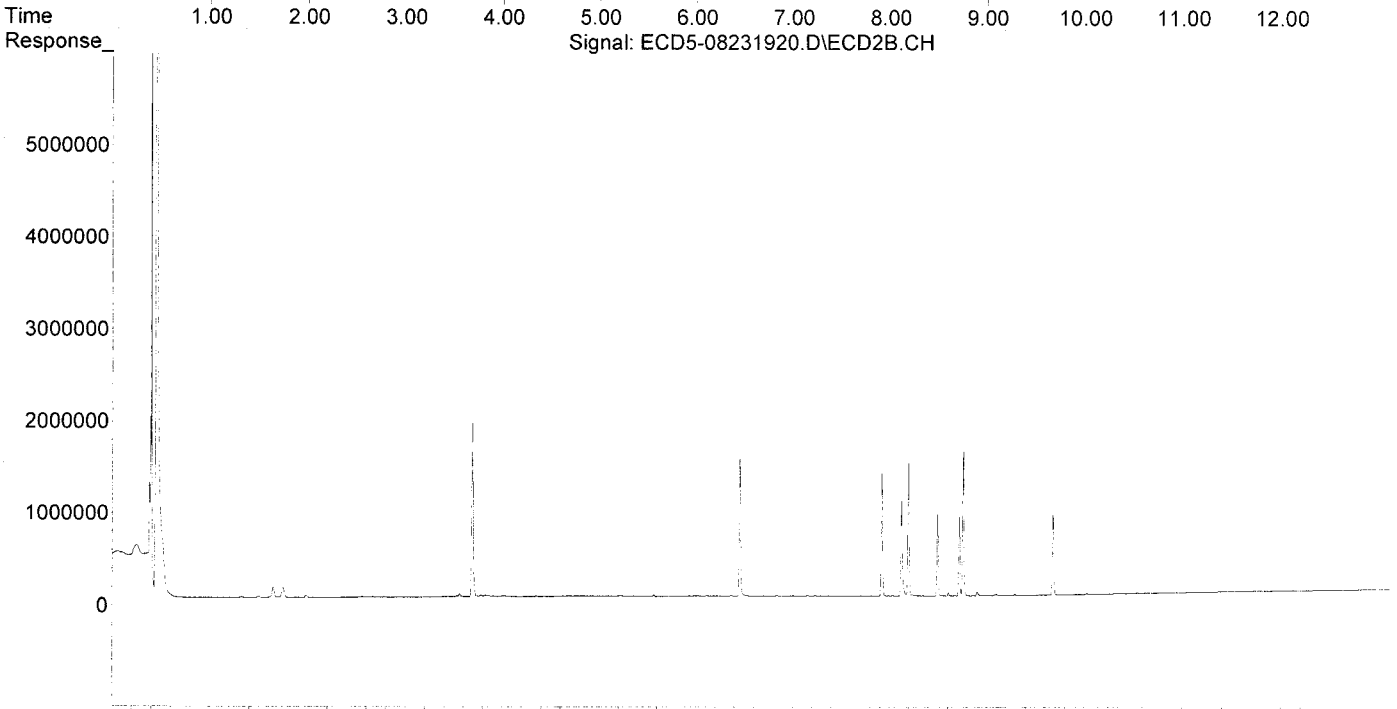
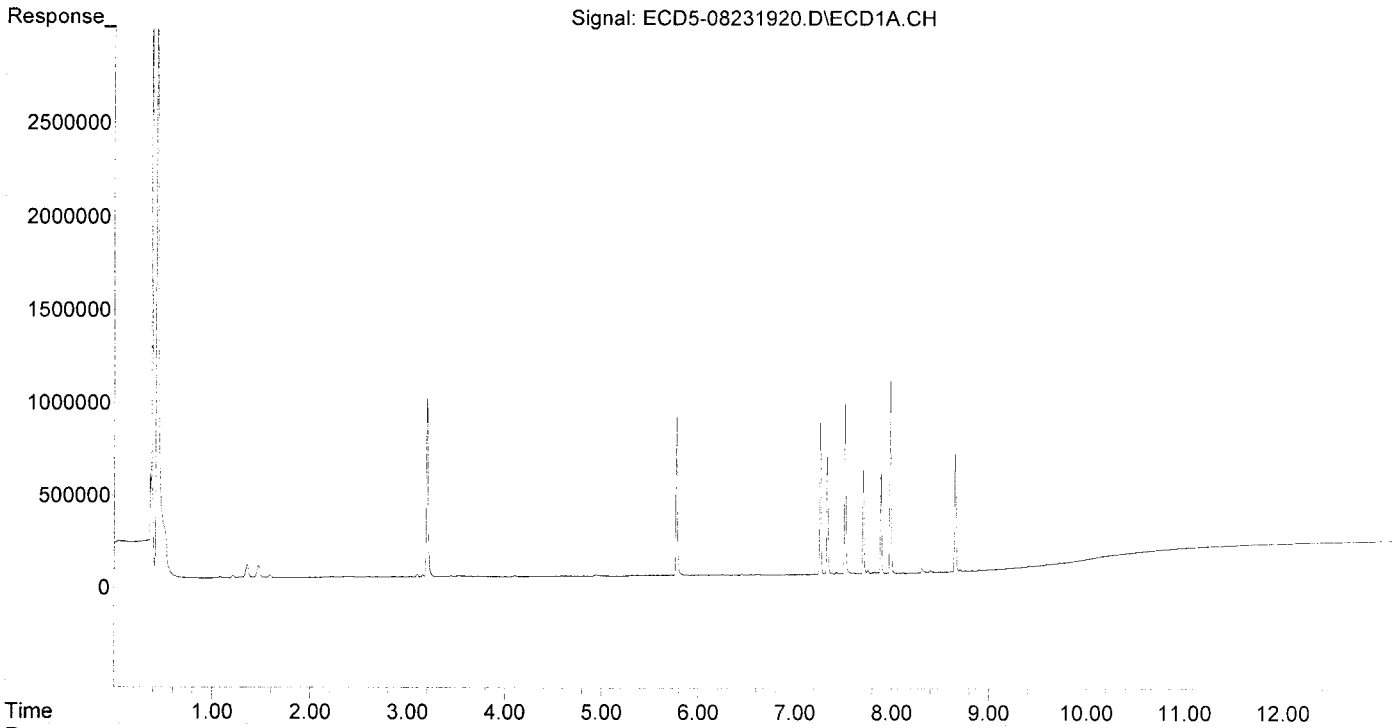
MJB  
8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368f	5.982	4403	6341	0.027	0.022
22) S DCBP (S)	9.592	10.539	7940	5412	0.056	0.030 #
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.247f	0.000	5412	0	0.027	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.631	7.289	4685	5276	0.026	0.017
6) d-BHC	6.449	7.232	7597	11663	0.039	0.033
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.334	7.991	633168	6408	3.438	0.021 #
9) trans-Chl...	7.429	8.123	9886	1029687	0.053	3.286 #
10) cis-Chlor...	7.518	8.236	933222	8550	5.126	0.029 #
11) Endosulfa...	0.000	0.000	0	0	N.D.	N.D.
12) 4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
13) Dieldrin	7.799	8.495	5522	898697	0.029	2.955 #
14) Endrin	7.986f	8.719	1025899	873074	6.978	3.866 #
15) 4,4'-DDD	7.986	8.759	1025899	1587243	6.529	6.195
16) Endosulfa...	8.116	8.862	3810	5519	0.027	0.024
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.404	9.098	10319	12495	BelowCal	BelowCal
19) Endosulfa...	8.705	9.289	10733	14179	0.069	0.057
20) Methoxychlor	8.550	0.000	617	0	0.011	N.D. #
21) Endrin Ke...	8.899	9.679	5632	895523	0.034	3.480 #
23) Hexachlor...	3.198	3.687	959211	1877484	5.249	4.994
24) Hexachlor...	5.775	6.453	853793	1485583	4.843	4.730
25) Oxychlordane	7.262	7.921	819748	1325543	4.982	4.839
26) 2,4'-DDE	7.334	8.123	633168	1029687	4.937	4.854
27) trans-Non...	7.518	8.194	933222	1467723	4.893	4.866
28) 2,4'-DDD	7.705	8.495	560942	898697	4.915	4.758
29) 2,4'-DDT	7.889	8.719	536967	873074	4.895	4.896
30) cis-Nonac...	7.986	8.759	1025899	1587243	4.941	4.732
31) Mirex	8.654	9.679	628618	895523	5.014	4.813
32) Chlordane...	7.429	8.123	9886	1029687	0.502	28.457 #
33) Chlordane...	7.518	8.236	933222	8550	37.233	0.282 #
34) Chlordane...	0.000	8.903	0	41570	N.D.	4.636 #
35) Chlordane...	3.443	3.434	5083	3848	NoCal	NoCal
36) Toxaphene...	7.518	8.495f	933222	898697	1041.953	342.457 #
37) Toxaphene...	7.799	0.000	5522	0	3.419	N.D. #
38) Toxaphene...	8.116	8.862	3810	5519	1.131	1.089
39) Toxaphene...	8.312f	8.903	22738	41570	7.017	4.979
40) Toxaphene...	8.550f	9.098	617	12495	0.257	2.681 #
41) Toxaphene...	8.654	0.000	628618	0	198.642	N.D. #
42) Toxaphene...	3.443	3.434	5083	3848	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231920.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:18  
Operator : MJB  
Sample : 9H23034-CALB  
Misc : A19E274, 9-42 5 ppb  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:02:42 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:35  
 Operator : MJB  
 Sample : 9H23034-CALC  
 Misc : A19E275, 9-42 10 ppb  
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:02:55 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.983	5244	8048	0.032	0.027
22) S DCBP (S)	9.591	10.539	8426	10511	0.060	0.058
Target Compounds						
2) a-BHC	5.934	6.594	5268	9085	0.023	0.022
3) g-BHC	6.219	6.912	5161	7308	0.026	0.020
4) b-BHC	6.300	6.978	6085	7741	0.067	0.049
5) Heptachlor	6.631	7.288	8267	12275	0.046	0.040
6) d-BHC	6.449	7.232	14325	24245	0.073	0.069
7) Aldrin	6.872	7.553	3901	5863	0.020	0.018
8) Heptachlo...	7.333	7.990	1245265	15714	6.761	0.052 #
9) trans-Chl...	7.428	8.122	20597	2018331	0.111	6.442 #
10) cis-Chlor...	7.516	8.236	1817552	21137	9.983	0.073 #
11) Endosulfa...	7.620	8.289	8045	10794	0.047	0.039
12) 4,4'-DDE	7.582	8.342	11334	7910	0.060	0.025 #
13) Dieldrin	7.797	8.495	12142	1778790	0.063	5.848 #
14) Endrin	7.986f	8.719	2032010	1702568	13.821	7.539 #
15) 4,4'-DDD	7.986	8.759	2032010	3148054	12.931	12.287
16) Endosulfa...	8.115	8.863	8267	13466	0.058	0.058
17) 4,4'-DDT	8.202	0.000	2833	0	0.024	N.D. #
18) Endrin Al...	8.404	9.098	18899	26666	BelowCal	BelowCal
19) Endosulfa...	8.705	9.289	20232	26713	0.131	0.107
20) Methoxychlor	8.543	0.000	1294	0	0.022	N.D. #
21) Endrin Ke...	8.899	9.679	11108	1722960	0.067	6.696 #
23) Hexachlor...	3.198	3.687	1838187	3701532	10.059	9.846
24) Hexachlor...	5.774	6.453	1711884	2936294	9.710	9.349
25) Oxychlorane	7.261	7.921	1591613	2538903	9.673	9.269
26) 2,4'-DDE	7.333	8.122	1245265	2018331	9.709	9.514
27) trans-Non...	7.516	8.194	1817552	2844404	9.830	9.430
28) 2,4'-DDD	7.705	8.495	1103587	1778790	9.670	9.418
29) 2,4'-DDT	7.888	8.719	1051565	1702568	9.587	9.547
30) cis-Nonac...	7.986	8.759	2032010	3148054	9.787	9.385
31) Mirex	8.654	9.679	1196365	1722960	9.543	9.260
32) Chlordane...	7.428	8.122	20597	2018331	1.046	55.779 #
33) Chlordane...	7.516	8.236	1817552	21137	72.516	0.696 #
34) Chlordane...	0.000	8.903	0	42511	N.D.	4.741 #
35) Chlordane...	3.445	3.433	6229	7261	NoCal	NoCal
36) Toxaphene...	7.516	8.495f	1817552	1778790	2029.316	677.826 #
37) Toxaphene...	7.797	0.000	12142	0	7.518	N.D. #
38) Toxaphene...	8.115	8.863	8267	13466	2.455	2.657
39) Toxaphene...	8.312f	8.903	23581	42511	7.278	5.091
40) Toxaphene...	8.582	9.098	560	26666	0.234	5.722 #
41) Toxaphene...	8.654	0.000	1196365	0	378.048	N.D. #
42) Toxaphene...	3.445	3.433	6229	7261	NoCal	NoCal

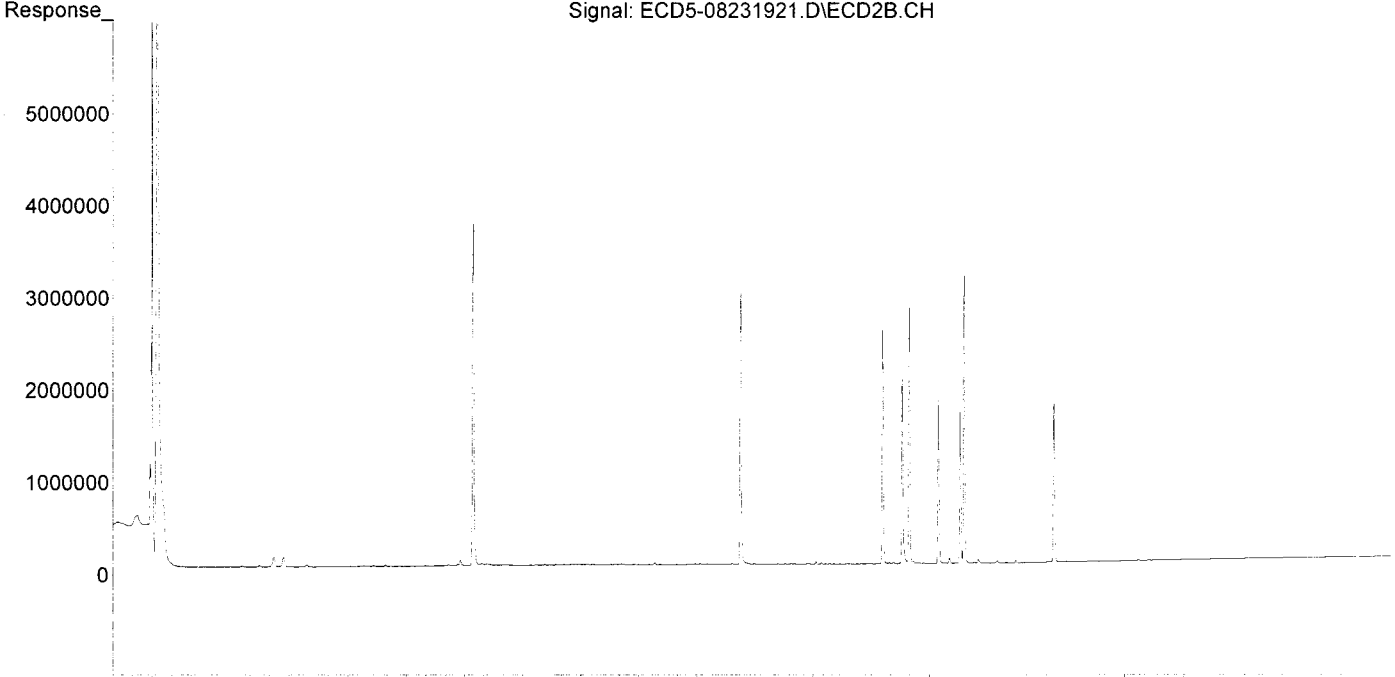
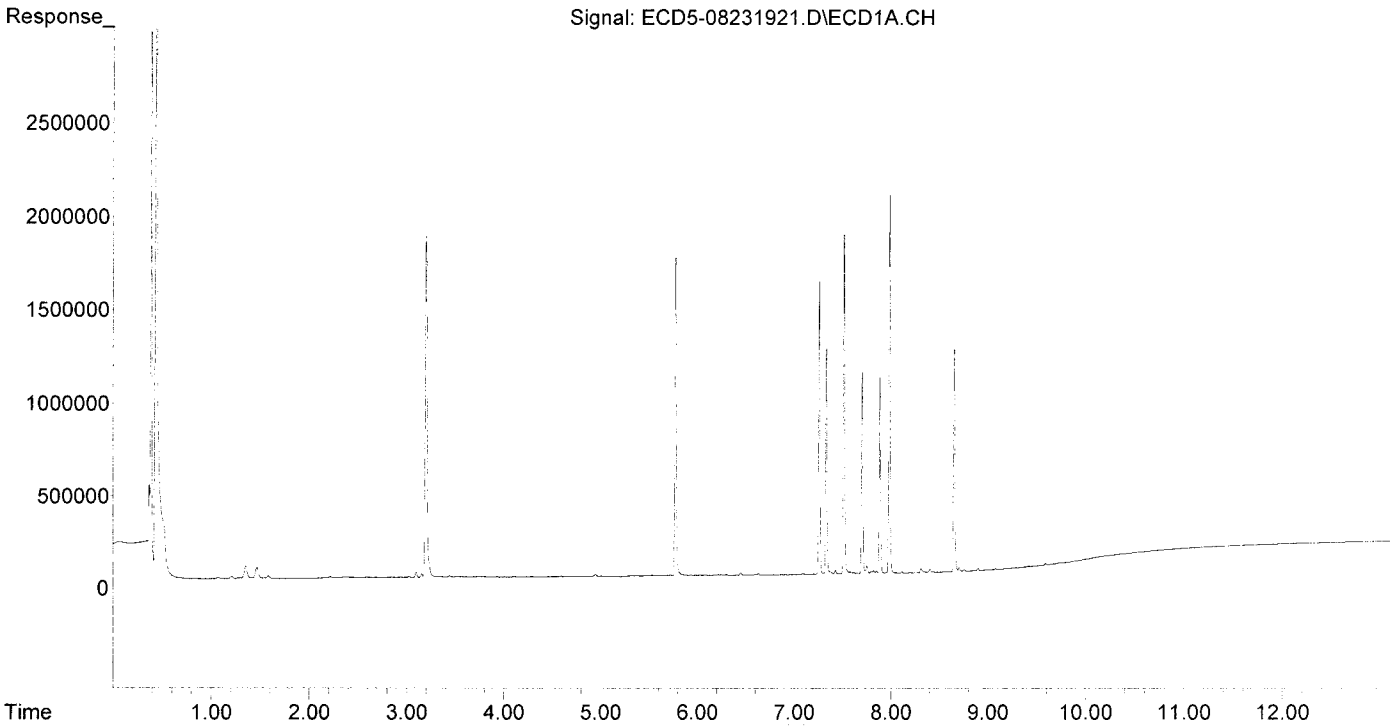
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:35  
Operator : MJB  
Sample : 9H23034-CALC  
Misc : A19E275, 9-42 10 ppb  
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:02:55 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231922.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:53  
 Operator : MJB  
 Sample : 9H23034-CALD  
 Misc : A19E276, 9-42 25 ppb  
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:03:06 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*8/26/19*

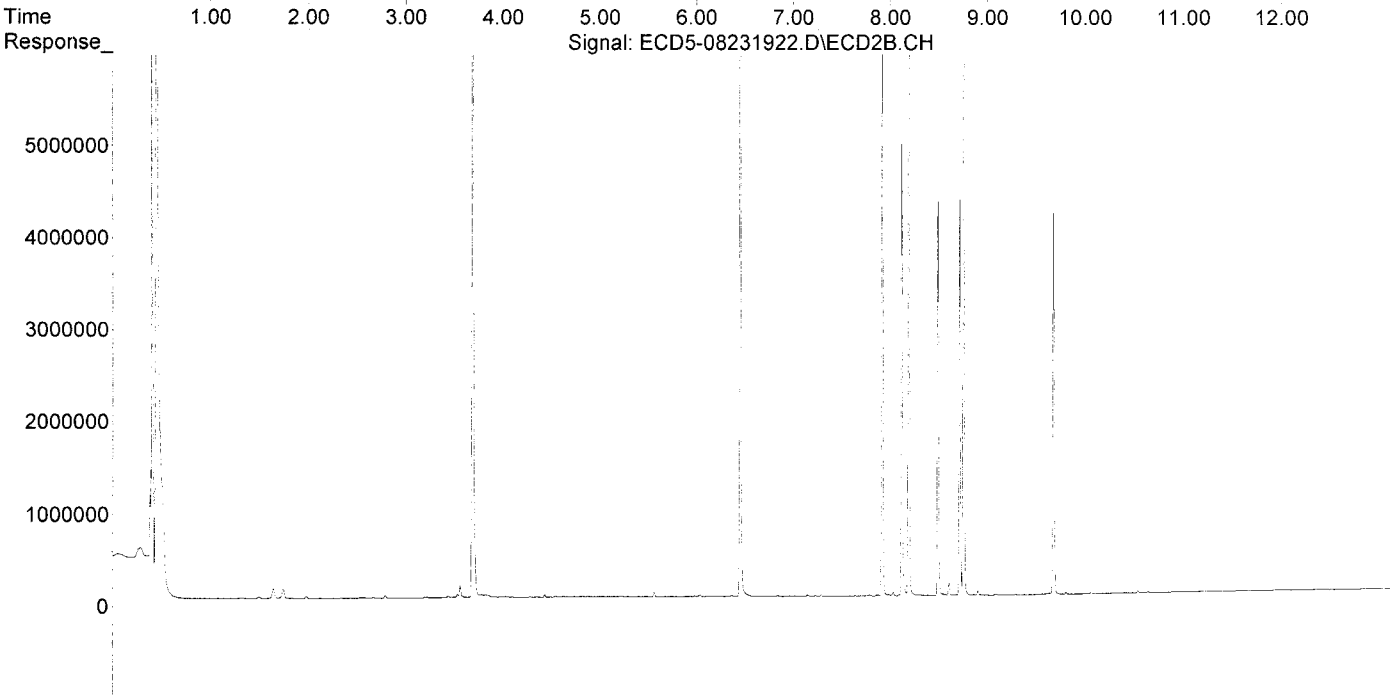
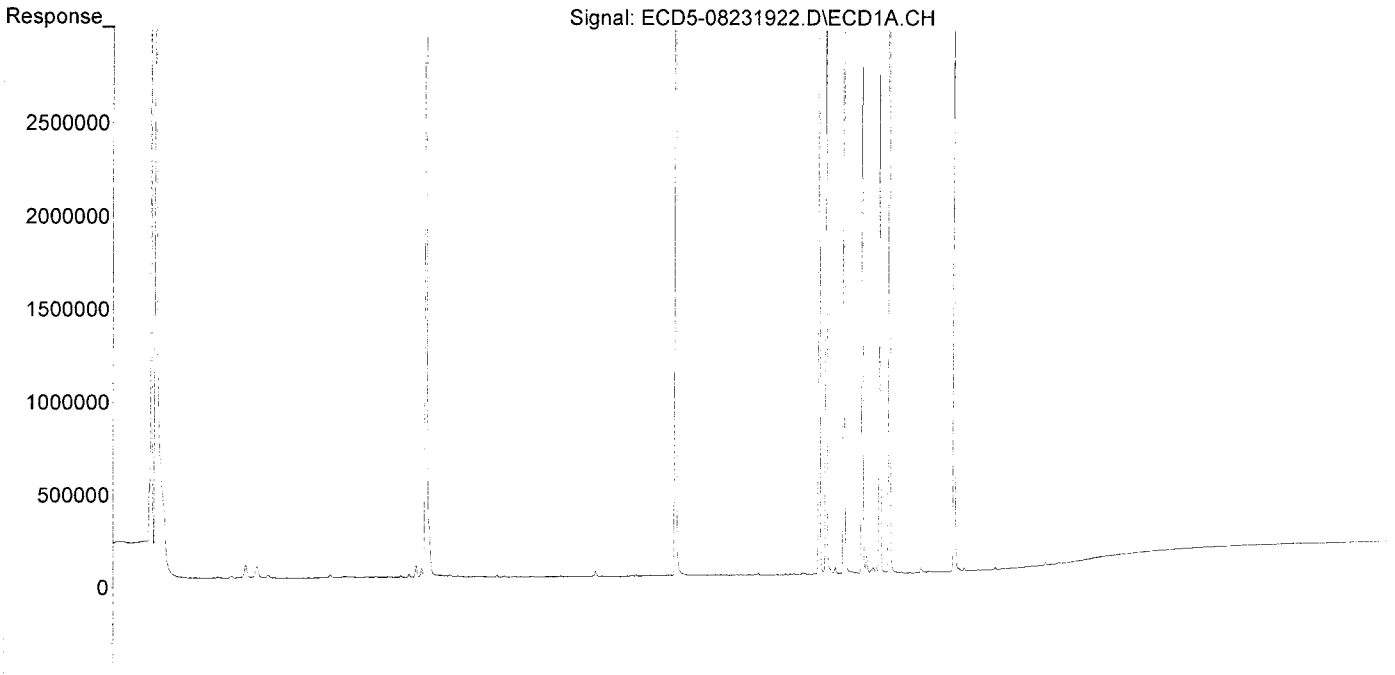
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.981	10828	6833	0.065	0.023 #
22) S DCBP (S)	9.592	10.539	20297	20262	0.144	0.113
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.248f	0.000	5786	0	0.029	N.D. #
4) b-BHC	0.000	0.000	0	0	N.D.	N.D.
5) Heptachlor	6.632	7.288	9958	12977	0.055	0.042
6) d-BHC	6.450	7.231	5090	7876	0.026	0.022
7) Aldrin	0.000	0.000	0	0	N.D.	N.D.
8) Heptachlo...	7.333	7.989	3059421	19960	16.611	0.066 #
9) trans-Chl...	7.428	8.122	36083	4999232	0.195	15.955 #
10) cis-Chlor...	7.516	8.235	4391046	27018	24.117	0.093 #
11) Endosulfa...	7.604	8.299	11350	9999	0.067	0.036 #
12) 4,4'-DDE	7.604f	0.000	11350	0	0.060	N.D. #
13) Dieldrin	7.800	8.495	19961	4389185	0.104	14.431 #
14) Endrin	7.986f	8.719	4993110	4405554	33.960	19.509 #
15) 4,4'-DDD	7.986	8.759	4993110	8219393	31.775	32.080
16) Endosulfa...	0.000	8.862	0	7977	N.D.	0.035 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.404	9.098	7779	9076	BelowCal	BelowCal
19) Endosulfa...	0.000	9.289	0	11382	N.D.	0.046 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.899	9.679	4709	4138115	0.028	16.082 #
23) Hexachlor...	3.198	3.687	4363988	8892238	23.881	23.654
24) Hexachlor...	5.774	6.453	4184551	7416324	23.736	23.612
25) Oxychlordane	7.261	7.920	3881255	6202791	23.589	22.646
26) 2,4'-DDE	7.333	8.122	3059421	4999232	23.853	23.566
27) trans-Non...	7.516	8.194	4391046	7092288	24.199	23.513
28) 2,4'-DDD	7.705	8.495	2745178	4389185	24.054	23.240
29) 2,4'-DDT	7.888	8.719	2728794	4405554	24.878	24.703
30) cis-Nonac...	7.986	8.759	4993110	8219393	24.050	24.503
31) Mirex	8.654	9.679	2910818	4138115	23.218	22.239
32) Chlordane...	7.428	8.122	36083	4999232	1.833	138.159 #
33) Chlordane...	7.516	8.235	4391046	27018	175.191	0.890 #
34) Chlordane...	0.000	8.903	0	43328	N.D.	4.833 #
35) Chlordane...	3.444	3.433	9286	16581	NoCal	NoCal
36) Toxaphene...	7.516	8.495f	4391046	4389185	4902.650	1672.543 #
37) Toxaphene...	7.800	0.000	19961	0	12.360	N.D. #
38) Toxaphene...	0.000	8.862	0	7977	N.D.	1.574 #
39) Toxaphene...	8.313f	8.903	24731	43328	7.633	5.189
40) Toxaphene...	8.607f	9.098	797	9076	0.332	1.947 #
41) Toxaphene...	8.654	0.000	2910818	0	919.811	N.D. #
42) Toxaphene...	3.444	3.433	9286	16581	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231922.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:53  
Operator : MJB  
Sample : 9H23034-CALD  
Misc : A19E276, 9-42 25 ppb  
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:03:06 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231923.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 18:10  
 Operator : MJB  
 Sample : 9H23034-CALE  
 Misc : A19E154, 9-42 50 ppb  
 ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:03:18 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

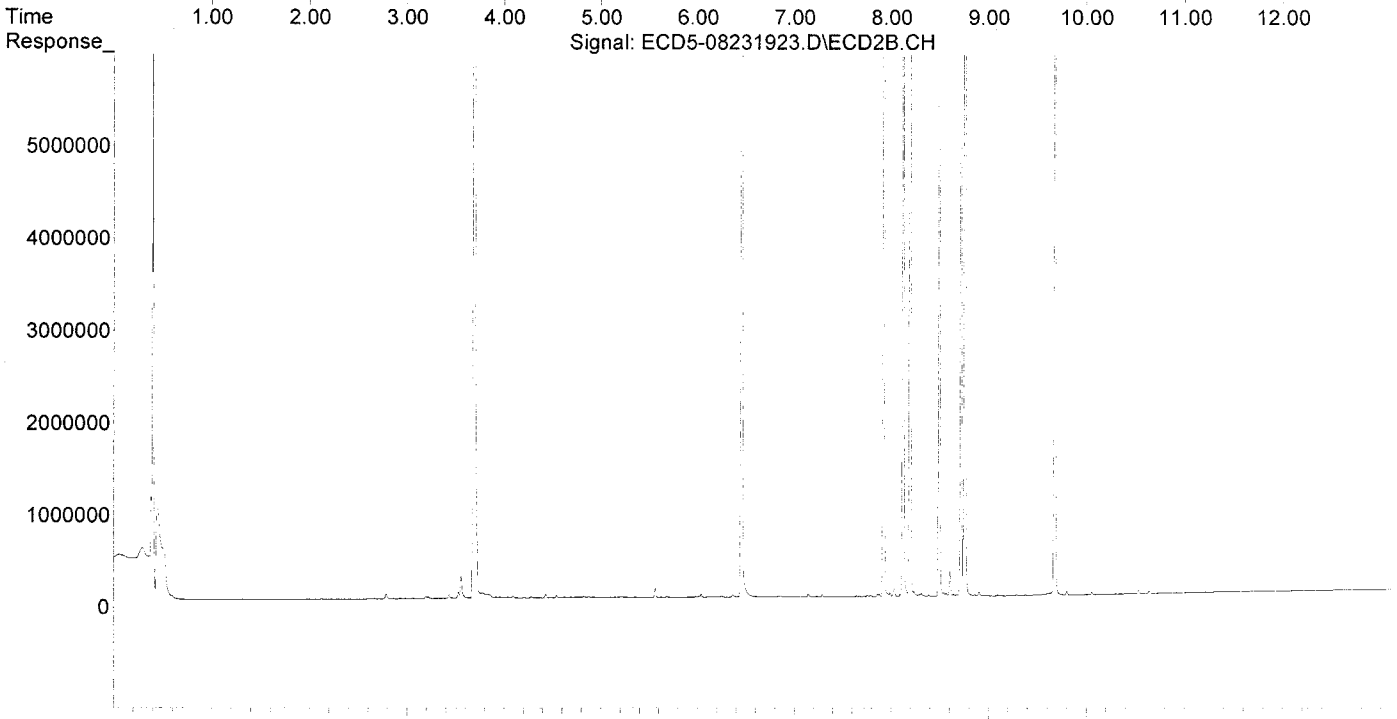
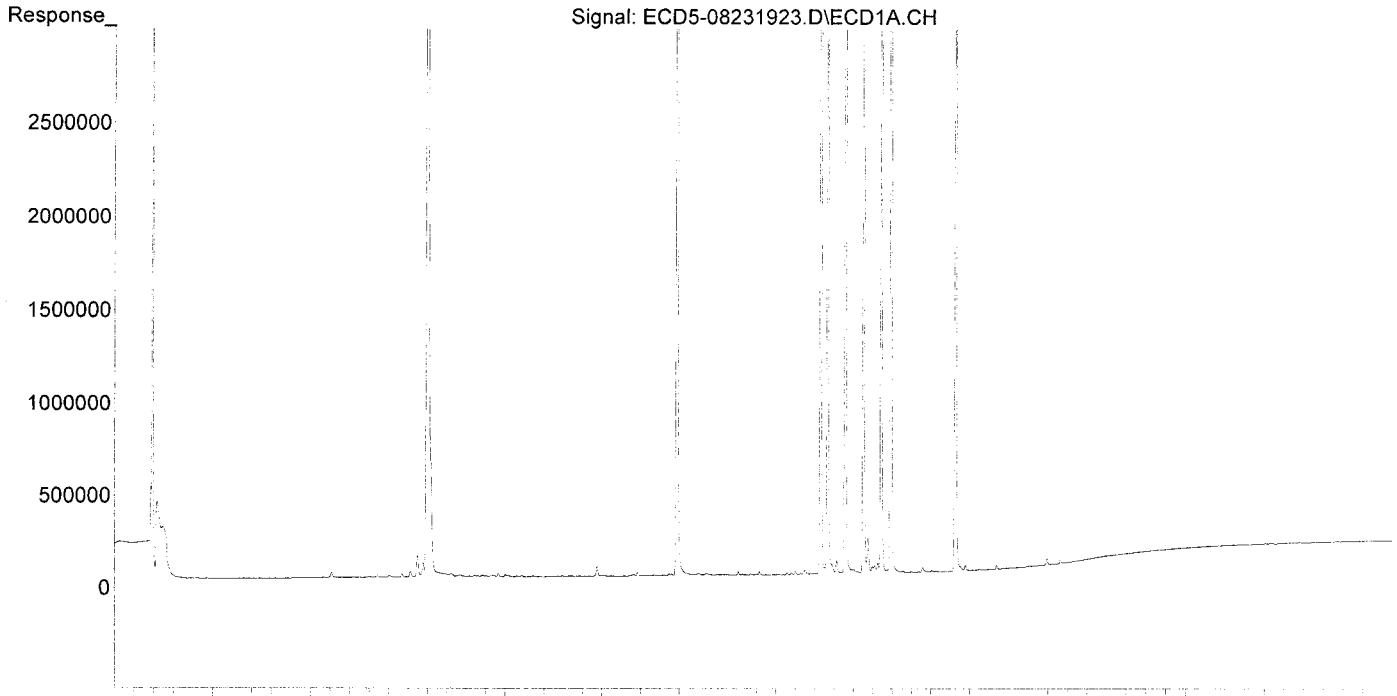
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.981	19019	8441	0.115	0.029 #
22) S DCBP (S)	9.591	10.538	35203	39503	0.249	0.220
Target Compounds						
2) a-BHC	5.949	0.000	5252	0	0.023	N.D. #
3) g-BHC	6.196f	6.951f	4084	3735	0.020	0.010 #
4) b-BHC	0.000	6.951f	0	3735	N.D.	0.024 #
5) Heptachlor	6.632	7.289	17900	26152	0.099	0.085
6) d-BHC	6.450	7.232	4458	7173	0.023	0.020
7) Aldrin	0.000	7.520f	0	4998	N.D.	0.015 #
8) Heptachlo...	7.333	7.989	6510588	39220	35.349	0.130 #
9) trans-Chl...	7.428	8.122	71663	11006400	0.388	35.128 #
10) cis-Chlor...	7.516	8.236	9581794	53379	52.627	0.183 #
11) Endosulfa...	7.604	8.299	22096	24918	0.130	0.091
12) 4,4'-DDE	7.604f	8.314f	22096	29928	0.117	0.096
13) Dieldrin	7.798	8.495	33203	9924934	0.173	32.632 #
14) Endrin	7.985f	8.718	10616019	8810591	72.204	39.015 #
15) 4,4'-DDD	7.985	8.758	10616019	17721229	67.557	69.166
16) Endosulfa...	0.000	8.862	0	12791	N.D.	0.055 #
17) 4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
18) Endrin Al...	8.409	9.099	5626	7468	BelowCal	BelowCal
19) Endosulfa...	0.000	9.289	0	9409	N.D.	0.038 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.898	9.679	5162	9100959	0.031	35.369 #
23) Hexachlor...	3.198	3.688	8761747	18635615	47.947	49.572 #
24) Hexachlor...	5.774	6.454	8911624	16094159	50.550	51.241
25) Oxychlorane	7.261	7.920	8382873	14172543	50.948	51.743
26) 2,4'-DDE	7.333	8.122	6510588	11006400	50.760	51.883
27) trans-Non...	7.516	8.194	9581794	15807712	53.197	52.407
28) 2,4'-DDD	7.705	8.495	5920095	9924934	51.874	52.551
29) 2,4'-DDT	7.888	8.718	5687323	8810591	51.850	49.404
30) cis-Nonac...	7.985	8.758	10616019	17721229	51.133	52.828
31) Mirex	8.652	9.679	6218341	9100959	49.601	48.911
32) Chlordane...	7.428	8.122	71663	11006400	3.640	304.174 #
33) Chlordane...	7.516	8.236	9581794	53379	382.289	1.758 #
34) Chlordane...	0.000	8.903	0	43859	N.D.	4.892 #
35) Chlordane...	3.445	3.433	16729	32384	NoCal	NoCal
36) Toxaphene...	7.516	8.495f	9581794	9924934	10698.176	3781.996 #
37) Toxaphene...	7.798	0.000	33203	0	20.560	N.D. #
38) Toxaphene...	0.000	8.862	0	12791	N.D.	2.524 #
39) Toxaphene...	8.314f	8.903	24262	43859	7.488	5.253
40) Toxaphene...	8.605f	9.099	1073	7468	0.448	1.603 #
41) Toxaphene...	8.652	0.000	6218341	0	1964.980	N.D. #
42) Toxaphene...	3.445	3.433	16729	32384	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231923.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 18:10  
Operator : MJB  
Sample : 9H23034-CALE  
Misc : A19E154, 9-42 50 ppb  
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:03:18 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231924.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 18:27  
 Operator : MJB  
 Sample : 9H23034-CALF  
 Misc : A19E155, 9-42 100 ppb  
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:03:29 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

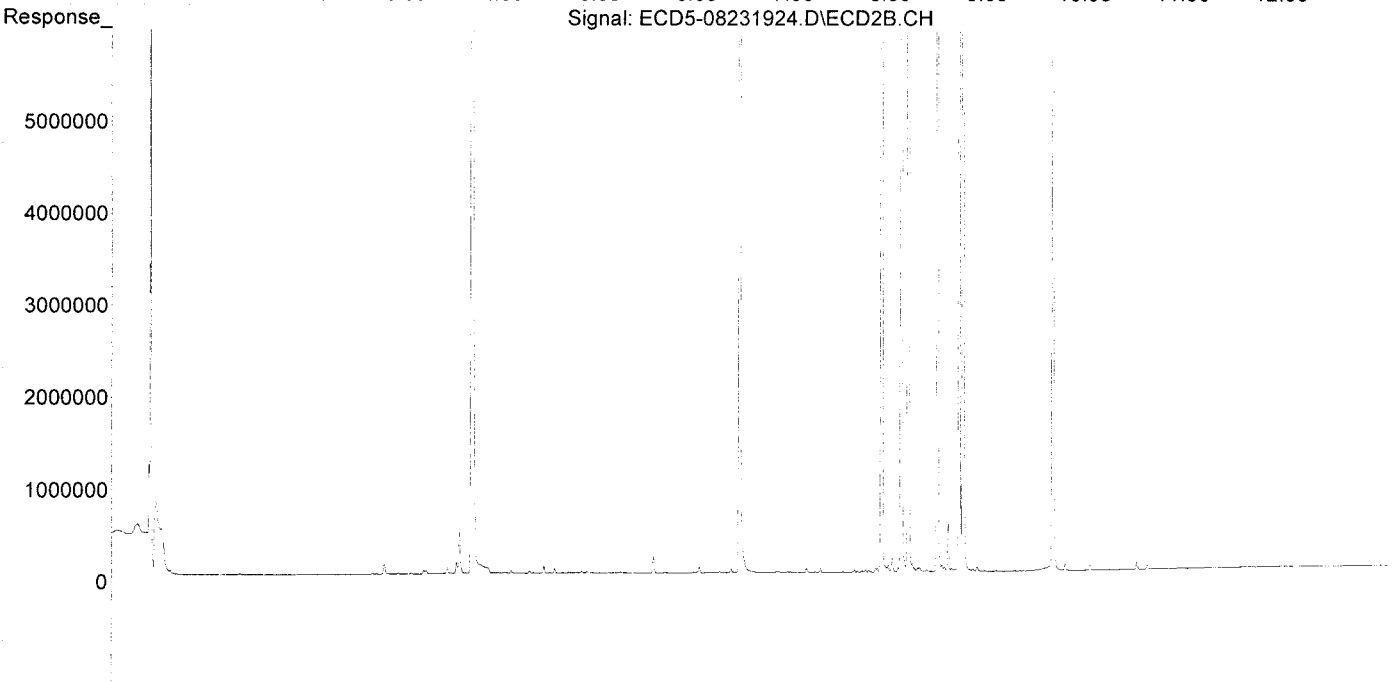
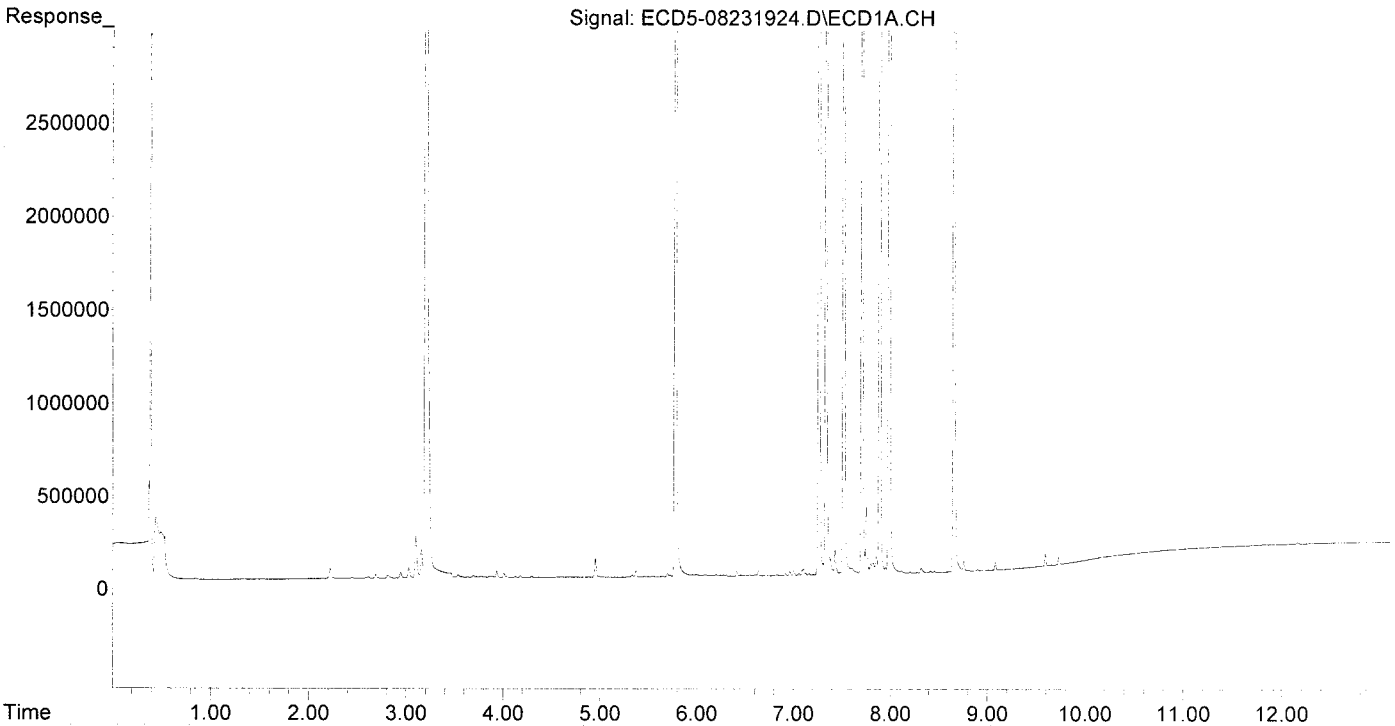
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.368f	5.981	33988	9402	0.205	0.032 #
22) S DCBP (S)	9.592	10.540	62236	73549	0.441	0.409
Target Compounds						
2) a-BHC	5.950	0.000	8055	0	0.035	N.D. #
3) g-BHC	6.198	6.952f	8435	9250	0.042	0.026
4) b-BHC	6.301	6.979	5312	6852	0.059	0.043
5) Heptachlor	6.634	7.290	29320	42832	0.162	0.140
6) d-BHC	6.451	7.234	4881	8440	0.025	0.024
7) Aldrin	0.000	7.521f	0	8525	N.D.	0.026 #
8) Heptachlo...	7.334	7.990	12769067	71027	69.330	0.236 #
9) trans-Chl...	7.428	8.123	131019	22164400	0.709	70.739 #
10) cis-Chlor...	7.516	8.237	18351251	88947	100.792	0.305 #
11) Endosulfa...	7.604	8.299	36455	42308	0.214	0.154
12) 4,4'-DDE	7.604f	8.315f	36455	43813	0.193	0.141
13) Dieldrin	7.798	8.496	56666	20118925	0.295	66.148 #
14) Endrin	7.986f	8.721	20932641	18998968	142.373	84.131 #
15) 4,4'-DDD	7.986	8.760	20932641	36072644	133.210	140.791
16) Endosulfa...	8.115	8.863	14279	23343	0.099	0.101
17) 4,4'-DDT	8.202	8.985	6473	9074	0.054	0.015 #
18) Endrin Al...	8.415	9.101	7567	8073	BelowCal	BelowCal
19) Endosulfa...	0.000	9.290	0	9186	N.D.	0.037 #
20) Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
21) Endrin Ke...	8.898	9.680	6812	19363200	0.041	75.251 #
23) Hexachlor...	3.199	3.690	17952134	39298885	98.239	104.537
24) Hexachlor...	5.776	6.455	17670025	32766708	100.231	104.324
25) Oxychlorane	7.261	7.922	16359215	29732149	99.425	108.550
26) 2,4'-DDE	7.334	8.123	12769067	22164400	99.555	104.481
27) trans-Non...	7.516	8.195	18351251	31975271	102.232	106.006
28) 2,4'-DDD	7.705	8.496	11587554	20118925	101.534	106.526
29) 2,4'-DDT	7.888	8.721	11771354	18998968	107.317	106.533
30) cis-Nonac...	7.986	8.760	20932641	36072644	100.824	107.535
31) Mirex	8.653	9.680	11960753	19363200	95.406	104.062
32) Chlordane...	7.428	8.123	131019	22164400	6.654	612.537 #
33) Chlordane...	7.516	8.237	18351251	88947	732.167	2.929 #
34) Chlordane...	0.000	8.905	0	44814	N.D.	4.998 #
35) Chlordane...	3.443	3.434	27193	63535	NoCal	NoCal
36) Toxaphene...	7.516	8.496f	18351251	20118925	20489.369	7666.519 #
37) Toxaphene...	7.798	0.000	56666	0	35.089	N.D. #
38) Toxaphene...	8.115	8.863	14279	23343	4.240	4.606
39) Toxaphene...	8.316f	8.905	25592	44814	7.898	5.367
40) Toxaphene...	8.604f	9.101	1951	8073	0.814	1.732 #
41) Toxaphene...	8.653	0.000	11960753	0	3779.567	N.D. #
42) Toxaphene...	3.443	3.434	27193	63535	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231924.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 18:27  
Operator : MJB  
Sample : 9H23034-CALF  
Misc : A19E155, 9-42 100 ppb  
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:03:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231925.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 18:45  
 Operator : MJB  
 Sample : 9H23034-CALG  
 Misc : A19E271, 9-42 200 ppb  
 ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:03:40 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
6/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.367f	5.980	60549	10992	0.365	0.037 #
22) S DCBP (S)	9.590	10.538	118766	140925	0.842	0.784
Target Compounds						
2) a-BHC	5.933	6.593	27118	40902	0.118	0.100
3) g-BHC	6.218	6.912	21255	30993	0.105	0.087
4) b-BHC	6.299	6.977	25058	44238	0.277	0.280
5) Heptachlor	6.630	7.287	63252	104459	0.349	0.341
6) d-BHC	6.448	7.231	43545	78794	0.221	0.223
7) Aldrin	6.870	7.552	17012	29944	0.086	0.091
8) Heptachlo...	7.331	7.988	24819199	162906	134.756	0.541 #
9) trans-Chl...	7.425	8.122	250239	44504592	1.353	142.039 #
10) cis-Chlor...	7.514	8.235	35027918	188111	192.386	0.646 #
11) Endosulfa...	7.581f	8.289	74592	84898	0.438	0.309
12) 4,4'-DDE	7.581	8.341	74592	59877	0.396	0.193 #
13) Dieldrin	7.794	8.494	114089	39839303	0.594	130.986 #
14) Endrin	7.984f	8.719	40046185	39999231	272.373	177.123
15) 4,4'-DDD	7.984	8.759	40046185	72455823	254.843	282.794
16) Endosulfa...	8.113	8.861	50946	84198	0.355	0.365
17) 4,4'-DDT	8.201	8.983	28640	48189	0.240	0.243
18) Endrin Al...	8.404	9.098	39025	57504	BelowCal	BelowCal
19) Endosulfa...	0.000	9.289	0	61418	N.D.	0.247 #
20) Methoxychlor	8.541	9.464	9687	26335	0.165	0.141
21) Endrin Ke...	8.898	9.679	37586	38425530	0.225	149.332 #
23) Hexachlor...	3.199	3.689	34166533	75988565	186.969	202.134
24) Hexachlor...	5.774	6.454	34073459	66261966	193.277	210.967
25) Oxychlorane	7.258	7.920	32032634	58736982	194.683	214.445
26) 2,4'-DDE	7.331	8.122	24819199	44504592	193.505	209.791
27) trans-Non...	7.514	8.194	35027918	63083636	195.632	209.138
28) 2,4'-DDD	7.703	8.494	21916962	39839303	192.043	210.942
29) 2,4'-DDT	7.887	8.719	23024956	39999231	209.914	224.287
30) cis-Nonac...	7.984	8.759	40046185	72455823	192.886	215.996
31) Mirex	8.652	9.679	23284997	38425530	185.735	206.507
32) Chlordane...	7.425	8.122	250239	44504592	12.709	1229.933 #
33) Chlordane...	7.514	8.235	35027918	188111	1397.523	6.195 #
34) Chlordane...	0.000	8.902	0	52051	N.D.	5.805 #
35) Chlordane...	3.438	3.433	48985	106773	NoCal	NoCal
36) Toxaphene...	7.514	8.494f	35027918	39839303	39109.048	15181.168 #
37) Toxaphene...	7.794	0.000	114089	0	70.646	N.D. #
38) Toxaphene...	8.113	8.861	50946	84198	15.129	16.613
39) Toxaphene...	8.313f	8.902	28693	52051	8.856	6.234
40) Toxaphene...	8.602f	9.098	3169	57504	1.322	12.339 #
41) Toxaphene...	8.652	9.464	23284997	26335	7357.999	5.544 #
42) Toxaphene...	3.438	3.433	48985	106773	NoCal	NoCal

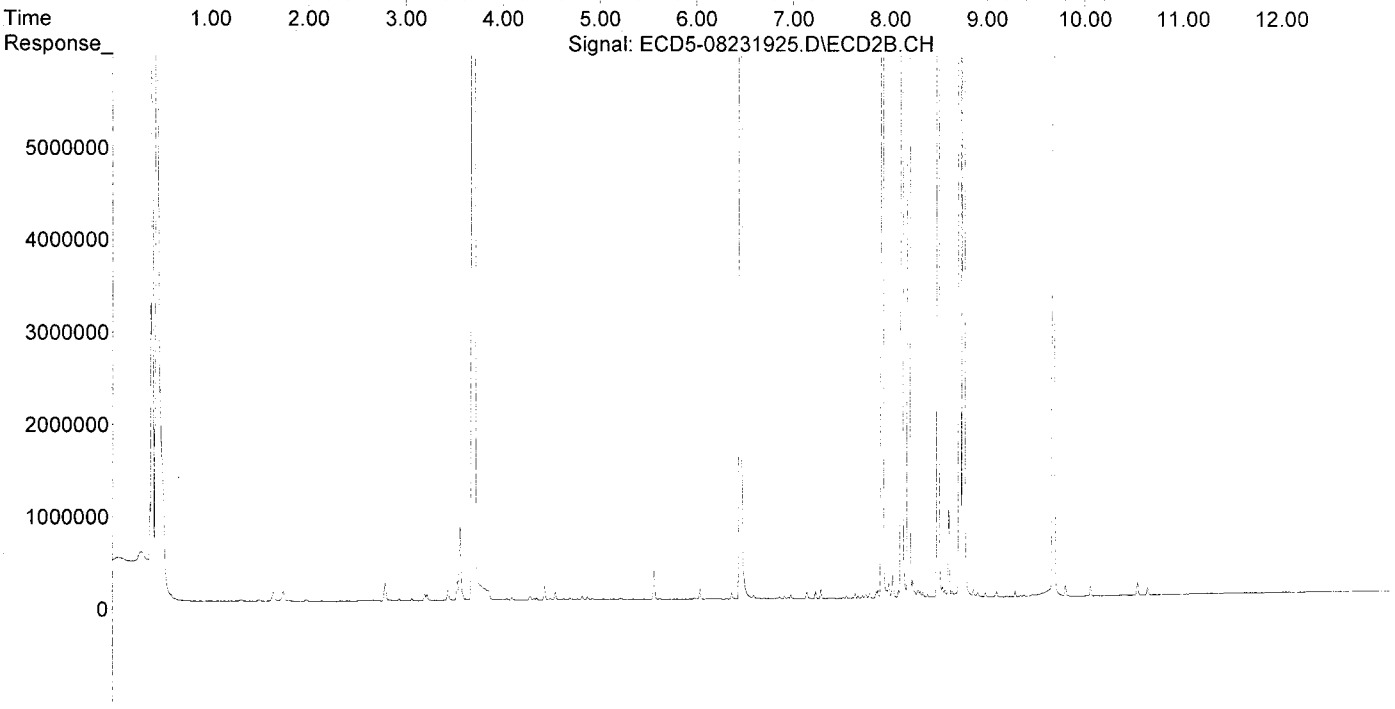
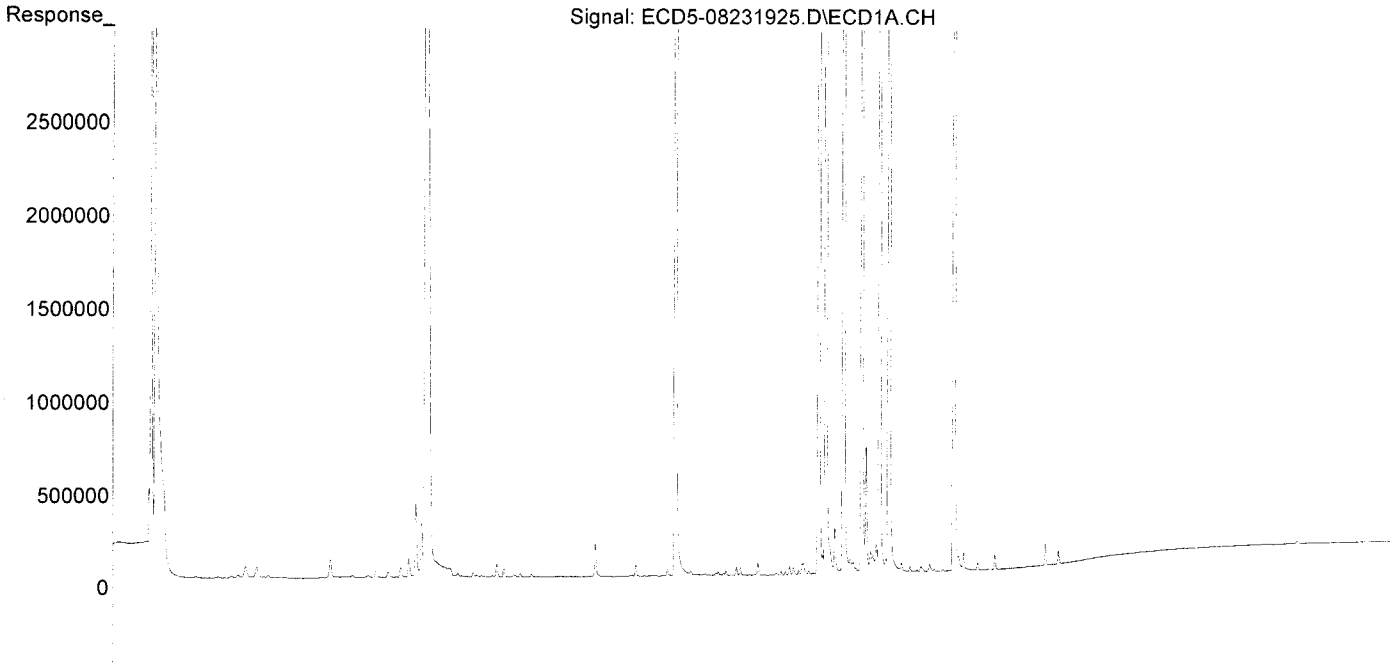
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231925.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 18:45  
Operator : MJB  
Sample : 9H23034-CALG  
Misc : A19E271, 9-42 200 ppb  
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:03:40 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231928.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 19:36  
 Operator : MJB  
 Sample : 9H23034-CALH  
 Misc : A19F232, CHLOR 50 ppb  
 ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:04:22 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*WB 8/26/19*

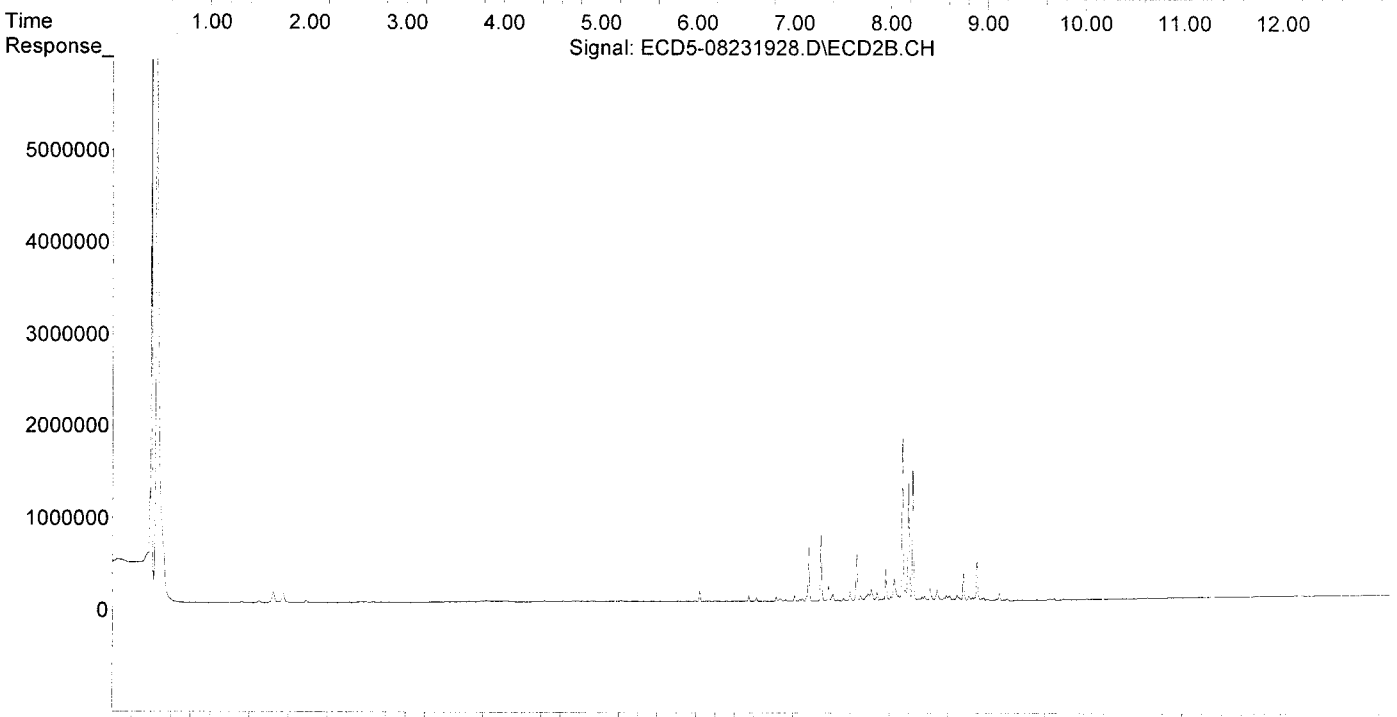
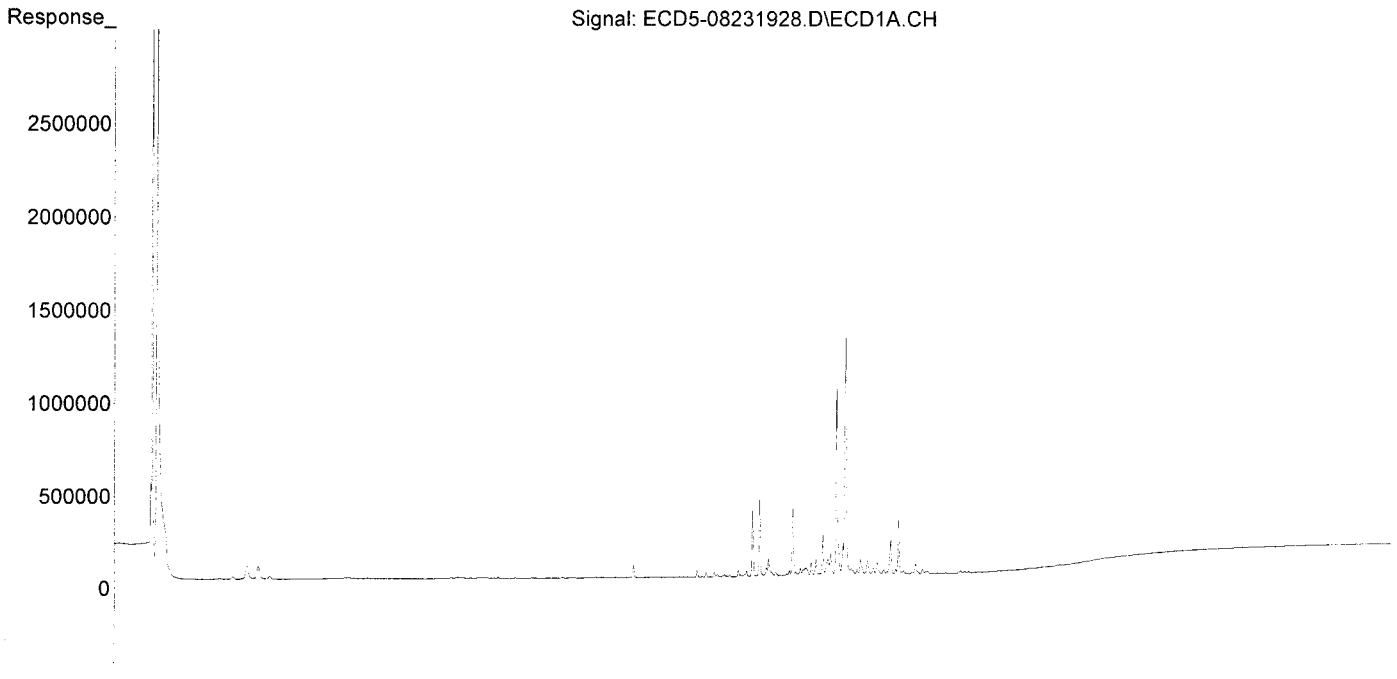
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D.	N.D.
22) S DCBP (S)	9.606	0.000	5901	0	0.042	N.D. #
Target Compounds						
2) a-BHC	0.000	6.622f	0	41997	N.D.	0.102 #
3) g-BHC	6.194f	6.924	13212	19652	0.065	0.055
4) b-BHC	6.323f	7.016f	10976	62438	0.121	0.395 #
5) Heptachlor	6.632	7.288	412192	714454	2.274	2.335
6) d-BHC	6.412f	0.000	34416	0	0.175	N.D. #
7) Aldrin	6.877	7.558	6150	10093	0.031	0.031
8) Heptachlo...	7.337	8.010	84467	51183	0.459	0.170 #
9) trans-Chl...	7.429	8.131	1009143	1754707	5.458	5.600
10) cis-Chlor...	7.521	8.237	1286655	1472400	7.067	5.056
11) Endosulfa...	7.640	8.308	29794	24027	0.175	0.087 #
12) 4,4'-DDE	7.579	8.333	33953	45018	0.180	0.145
13) Dieldrin	7.807	8.488	35520	119533	0.185	0.393 #
14) Endrin	7.986f	8.714	182097	37218	1.239	0.165 #
15) 4,4'-DDD	7.986	8.759	182097	301826	1.159	1.178
16) Endosulfa...	8.118	8.873	19535	32870	0.136	0.143
17) 4,4'-DDT	0.000	8.994	0	11155	N.D.	0.027 #
18) Endrin Al...	8.368f	9.128f	14946	80647	BelowCal	BelowCal
19) Endosulfa...	8.708	9.316f	13079	6249	0.084	0.025 #
20) Methoxychlor	8.553	0.000	3815	0	0.065	N.D. #
21) Endrin Ke...	8.899	9.686	2603	18155	0.016	0.071 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
25) Oxychlordane	7.256	7.934	11579	24468	0.070	0.089
26) 2,4'-DDE	7.337	8.131	84467	1754707	0.659	8.272 #
27) trans-Non...	7.521	8.194	1286655	1274306	6.866	4.225
28) 2,4'-DDD	7.675f	8.488	83034	119533	0.728	0.633
29) 2,4'-DDT	7.914f	8.714	22312	37218	0.203	0.209
30) cis-Nonac...	7.986	8.759	182097	301826	0.877	0.900
31) Mirex	0.000	9.686	0	18155	N.D.	0.098 #
32) Chlordane...	7.429	8.131	1009143	1754707	51.253	48.493
33) Chlordane...	7.521	8.237	1286655	1472400	51.334	48.492
34) Chlordane...	8.068	8.897	288087	439020	49.832	48.966
35) Chlordane...	3.446	0.000	5365	0	NoCal	N.D.
36) Toxaphene...	7.521	8.488f	1286655	119533	1436.564	45.549 #
37) Toxaphene...	7.807	8.814	35520	51904	21.995	15.771
38) Toxaphene...	8.118	8.851	19535	35575	5.801	7.019
39) Toxaphene...	8.348	8.897	14389	439020	4.441	52.578 #
40) Toxaphene...	8.553f	9.128f	3815	80647	1.591	17.305 #
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.446	0.000	5365	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231928.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 19:36  
Operator : MJB  
Sample : 9H23034-CALH  
Misc : A19F232, CHLOR 50 ppb  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:04:22 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231929.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 19:54  
 Operator : MJB  
 Sample : 9H23034-CALI  
 Misc : A19F233, CHLOR 100 ppb  
 ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:04:32 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

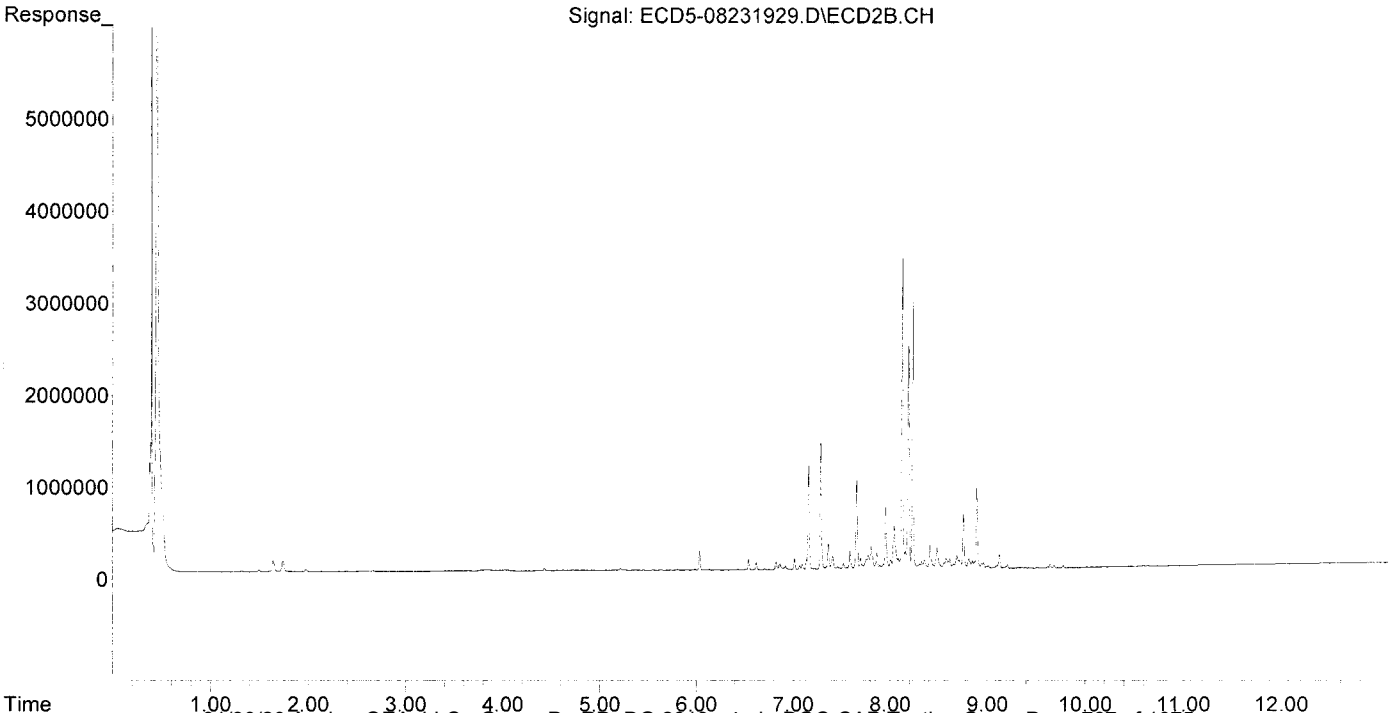
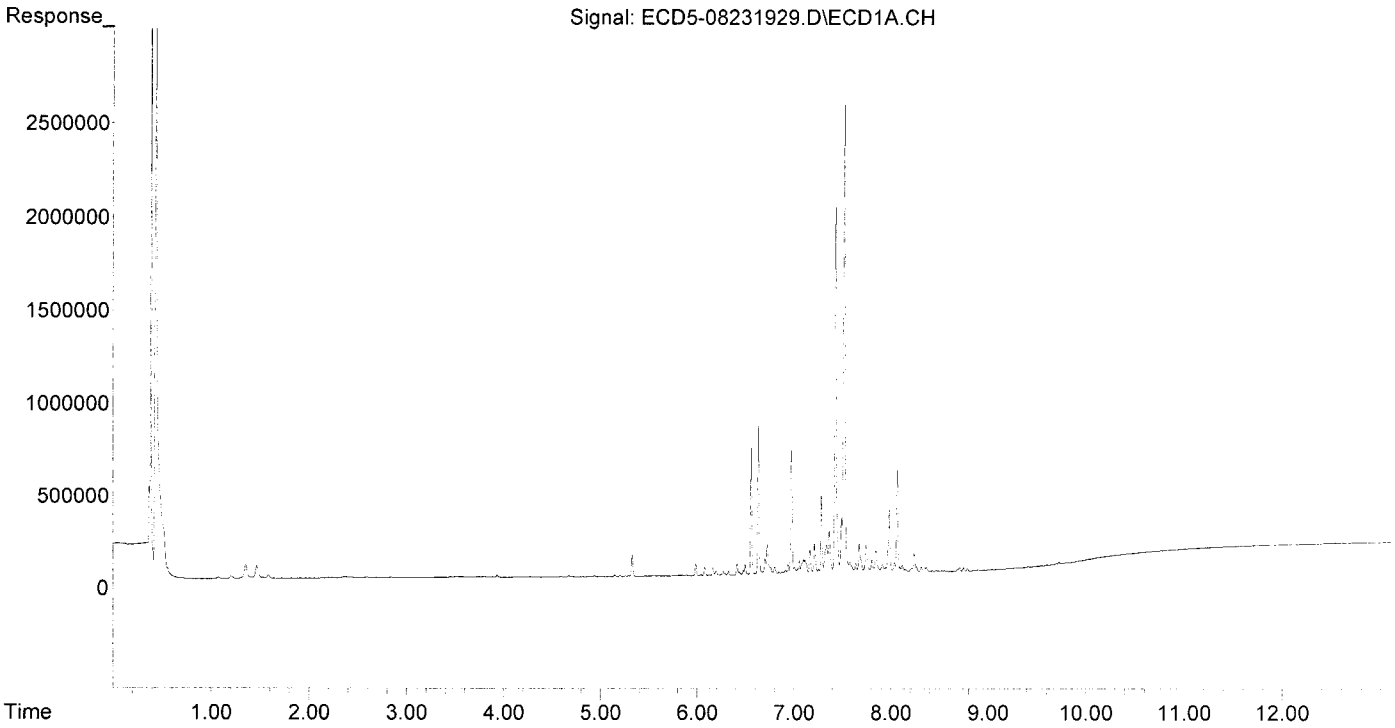
*MB  
8/26/19*

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	5943	N.D.	0.020 #
22) S DCBP (S)	9.606	0.000	7472	0	0.053	N.D. #
Target Compounds						
2) a-BHC	0.000	6.622f	0	77932	N.D.	0.190 #
3) g-BHC	6.194f	6.923	23514	36662	0.117	0.103
4) b-BHC	6.323f	7.016f	21053	115009	0.233	0.727 #
5) Heptachlor	6.632	7.288	802906	1372147	4.429	4.484
6) d-BHC	6.412f	0.000	63497	0	0.323	N.D. #
7) Aldrin	6.877	7.558	12864	20481	0.065	0.062
8) Heptachlo...	7.338	8.010	155514	93915	0.844	0.312 #
9) trans-Chl...	7.429	8.130	1978897	3378388	10.703	10.782
10) cis-Chlor...	7.521	8.238	2519520	2905941	13.838	9.978
11) Endosulfa...	7.641f	8.309f	56850	48968	0.334	0.178 #
12) 4,4'-DDE	7.579	8.334	63125	84256	0.335	0.271
13) Dieldrin	7.807	8.488	69910	230931	0.364	0.759 #
14) Endrin	7.986f	8.713	344068	89428	2.340	0.396 #
15) 4,4'-DDD	7.986	8.760	344068	593441	2.190	2.316
16) Endosulfa...	8.118	8.873	39271	74727	0.273	0.324
17) 4,4'-DDT	0.000	8.995	0	22043	N.D.	0.090 #
18) Endrin Al...	8.428f	9.128f	7592	153472	BelowCal	BelowCal
19) Endosulfa...	8.709	9.317f	21141	11695	0.136	0.047 #
20) Methoxychlor	8.553	0.000	6889	0	0.118	N.D. #
21) Endrin Ke...	8.897	9.687	3240	29883	0.019	0.116 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	6.430f	0	7921	N.D.	0.025 #
25) Oxychlordane	7.255	7.934	24127	50634	0.147	0.185
26) 2,4'-DDE	7.338	8.130	155514	3378388	1.212	15.925 #
27) trans-Non...	7.521	8.195	2519520	2542319	13.749	8.428
28) 2,4'-DDD	7.676f	8.488	159771	230931	1.400	1.223
29) 2,4'-DDT	7.914f	8.713	44472	89428	0.405	0.501
30) cis-Nonac...	7.986	8.760	344068	593441	1.657	1.769
31) Mirex	0.000	9.687	0	29883	N.D.	0.161 #
32) Chlordane...	7.429	8.130	1978897	3378388	100.505	93.365
33) Chlordane...	7.521	8.238	2519520	2905941	100.522	95.703
34) Chlordane...	8.068	8.898	548196	874465	94.825	97.533
35) Chlordane...	3.446	0.000	4938	0	NoCal	N.D.
36) Toxaphene...	7.521	8.488f	2519520	230931	2813.072	87.999 #
37) Toxaphene...	7.807	8.815	69910	108014	43.289	32.821
38) Toxaphene...	8.118	8.851	39271	84269	11.662	16.627 #
39) Toxaphene...	8.349	8.898	25383	874465	7.834	104.728 #
40) Toxaphene...	8.553f	9.068f	6889	13931	2.874	2.989
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.446	0.000	4938	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231929.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 19:54  
Operator : MJB  
Sample : 9H23034-CALI  
Misc : A19F233, CHLOR 100 ppb  
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:04:32 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231930.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 20:11  
 Operator : MJB  
 Sample : 9H23034-CALJ  
 Misc : A19F234, CHLOR 200 ppb  
 ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:04:43 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

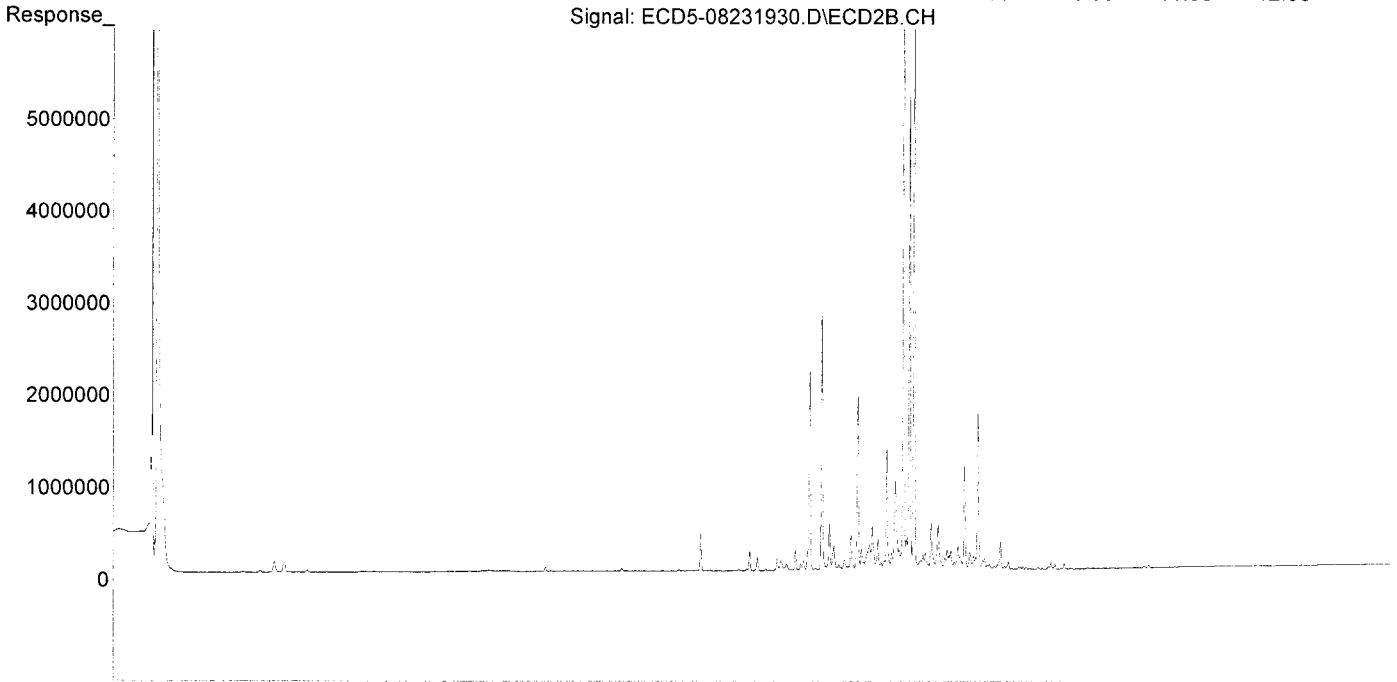
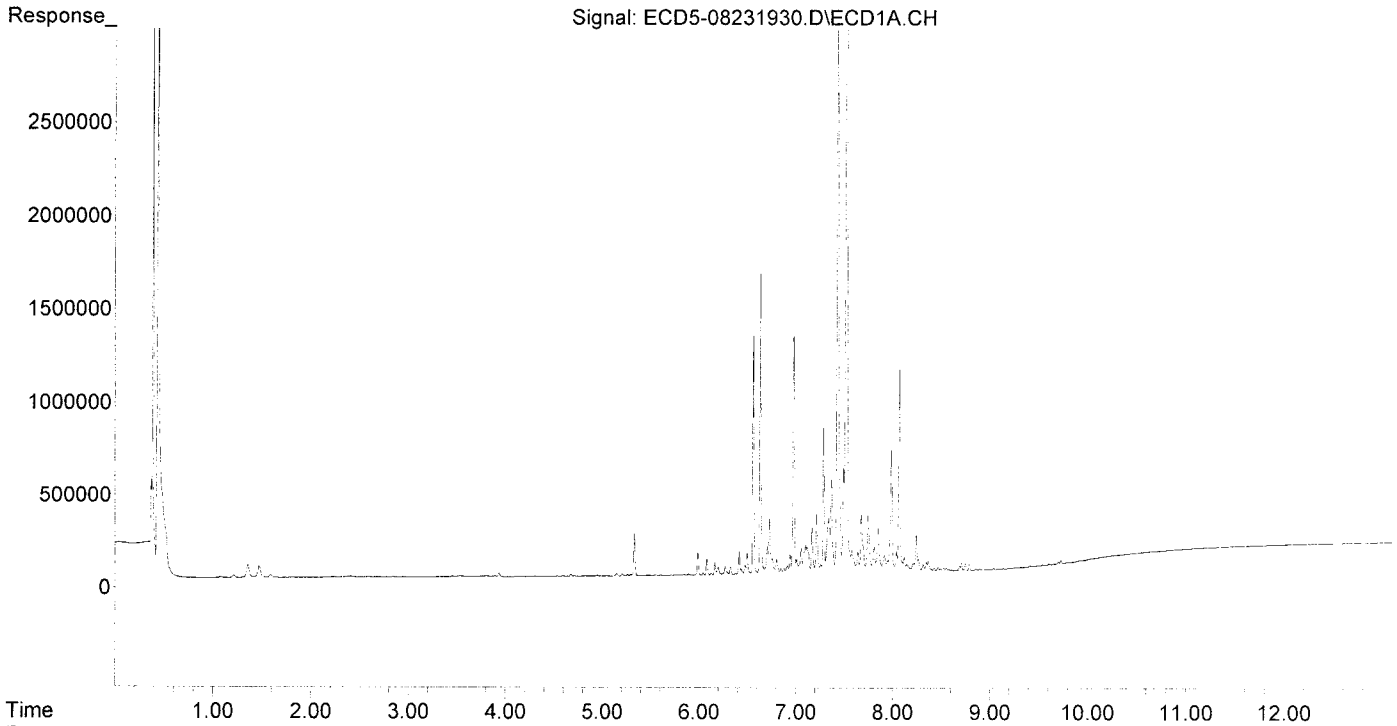
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D.	N.D.
22) S DCBP (S)	9.605	0.000	9631	0	0.068	N.D. #
Target Compounds						
2) a-BHC	0.000	6.623f	0	141009	N.D.	0.344 #
3) g-BHC	6.197f	6.925	44236	70355	0.219	0.197
4) b-BHC	6.269f	0.000	45994	0	0.509	N.D. #
5) Heptachlor	6.633	7.290	1604459	2790294	8.850	9.119
6) d-BHC	6.414f	7.222	125171	21783	0.636	0.062 #
7) Aldrin	6.878	7.559	27966	42088	0.142	0.128
8) Heptachlo...	7.339	8.011	296306	184421	1.609	0.613 #
9) trans-Chl...	7.429	8.131	3849299	6751197	20.819	21.547
10) cis-Chlor...	7.522	8.239	4906320	5883615	26.947	20.201
11) Endosulfa...	7.641f	8.311f	111658	101195	0.656	0.368 #
12) 4,4'-DDE	7.579	8.334	119469	162236	0.634	0.522
13) Dieldrin	7.808	8.488	135995	479651	0.708	1.577 #
14) Endrin	7.986f	8.714	662867	142098	4.508	0.629 #
15) 4,4'-DDD	7.986	8.759	662867	1113368	4.218	4.345
16) Endosulfa...	8.119	8.852	78177	142714	0.544	0.619
17) 4,4'-DDT	0.000	8.995	0	47222	N.D.	0.237 #
18) Endrin Al...	8.429f	9.129f	17160	296262	BelowCal	0.772
19) Endosulfa...	8.709	9.317f	39967	28714	0.258	0.115 #
20) Methoxychlor	8.528	9.426f	15895	10981	0.271	BelowCal #
21) Endrin Ke...	8.895	9.688	5405	57534	0.032	0.224 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.768	6.432f	3592	14719	0.020	0.047 #
25) Oxychlordane	7.256	7.935	46857	97946	0.285	0.358
26) 2,4'-DDE	7.339	8.131	296306	6751197	2.310	31.825 #
27) trans-Non...	7.522	8.196	4906320	5159253	27.077	17.104
28) 2,4'-DDD	7.676f	8.488	310109	479651	2.717	2.540
29) 2,4'-DDT	7.915f	8.714	90205	142098	0.822	0.797
30) cis-Nonac...	7.986	8.759	662867	1113368	3.193	3.319
31) Mirex	8.690f	9.688	25315	57534	0.202	0.309 #
32) Chlordane...	7.429	8.131	3849299	6751197	195.499	186.577
33) Chlordane...	7.522	8.239	4906320	5883615	195.749	193.769
34) Chlordane...	8.069	8.898	1101677	1731727	190.565	193.146
35) Chlordane...	3.448	0.000	4503	0	NoCal	N.D.
36) Toxaphene...	7.522f	8.488f	4906320	479651	5477.960	182.776 #
37) Toxaphene...	7.808	8.815	135995	186597	84.211	56.699
38) Toxaphene...	8.119	8.852	78177	142714	23.215	28.158
39) Toxaphene...	8.349	8.898	48611	1731727	15.003	207.397 #
40) Toxaphene...	8.553f	9.069f	15795	32796	6.589	7.037
41) Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
42) Toxaphene...	3.448	0.000	4503	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 20:11  
Operator : MJB  
Sample : 9H23034-CALJ  
Misc : A19F234, CHLOR 200 ppb  
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:04:43 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231931.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 20:28  
 Operator : MJB  
 Sample : 9H23034-CALK  
 Misc : A19F235, CHLOR 500 ppb  
 ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:04:52 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
6/26/19

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.982	0	9372	N.D.	0.032 #
22) S DCBP (S)	9.605	10.512f	13871	6664	0.098	0.037 #
Target Compounds						
2) a-BHC	0.000	6.621f	0	314411	N.D.	0.766 #
3) g-BHC	6.194f	6.923	92958	161395	0.461	0.452
4) b-BHC	6.322f	7.016f	105835	520011	1.171	3.286 #
5) Heptachlor	6.631	7.288	4107971	7192687	22.659	23.507
6) d-BHC	6.412f	7.219	305503	51612	1.553	0.146 #
7) Aldrin	6.876	7.558	67201	101902	0.340	0.309
8) Heptachlo...	7.336	8.009	709786	434942	3.854	1.446 #
9) trans-Chl...	7.427	8.129	9628671	17830433	52.077	56.907
10) cis-Chlor...	7.520	8.237	12176524	14812273	66.878	50.858
11) Endosulfa...	7.639	8.308	267451	260205	1.572	0.946
12) 4,4'-DDE	7.577	8.332	288716	403680	1.531	1.299
13) Dieldrin	7.806	8.487	320749	1311343	1.671	4.312 #
14) Endrin	7.984f	8.712	1680286	346653	11.428	1.535 #
15) 4,4'-DDD	7.984	8.758	1680286	2798638	10.693	10.923
16) Endosulfa...	8.118	8.872	194466	323054	1.354	1.401
17) 4,4'-DDT	0.000	8.994	0	120742	N.D.	0.665 #
18) Endrin Al...	8.427f	9.127f	45775	749534	BelowCal	3.242
19) Endosulfa...	8.708	9.316f	99125	76741	0.640	0.308 #
20) Methoxychlor	8.552	9.462	44336	19918	0.757	0.061 #
21) Endrin Ke...	8.892	9.686	12903	140715	0.077	0.547 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.767	6.430f	6475	34351	0.037	0.109 #
25) Oxychlorthane	7.283f	7.933	1963331	230983	11.932	0.843 #
26) 2,4'-DDE	7.336	8.129	709786	17830433	5.534	84.051 #
27) trans-Non...	7.520	8.194	12176524	13173616	67.700	43.674
28) 2,4'-DDD	7.674f	8.487	765105	1311343	6.704	6.943
29) 2,4'-DDT	7.913f	8.712	230360	346653	2.100	1.944
30) cis-Nonac...	7.984	8.758	1680286	2798638	8.093	8.343
31) Mirex	8.645	9.686	12290	140715	0.098	0.756 #
32) Chlordane...	7.427	8.129	9628671	17830433	489.023	492.763
33) Chlordane...	7.520	8.237	12176524	14812273	485.812	487.822
34) Chlordane...	8.067	8.896	2921278	4271709	505.313	476.441
35) Chlordane...	3.447	0.000	4056	0	NoCal	N.D.
36) Toxaphene...	7.520	8.487f	12176524	1311343	13595.220	499.701 #
37) Toxaphene...	7.806	8.813	320749	462807	198.614	140.627
38) Toxaphene...	8.118	8.850	194466	348421	57.748	68.745
39) Toxaphene...	8.348	8.896	120098	4271709	37.065	511.592 #
40) Toxaphene...	8.552f	9.067f	44336	90716	18.495	19.465
41) Toxaphene...	8.645	9.462	12290	19918	3.884	4.193
42) Toxaphene...	3.447	0.000	4056	0	NoCal	N.D.

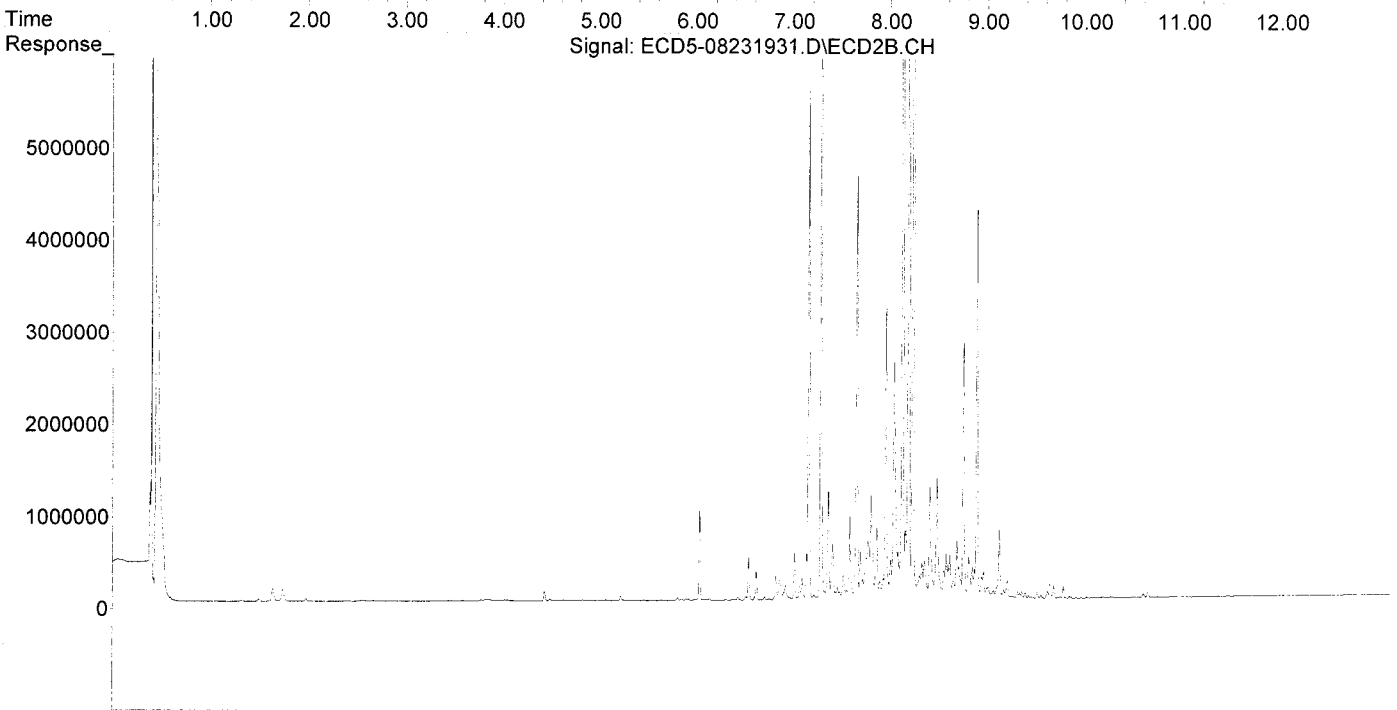
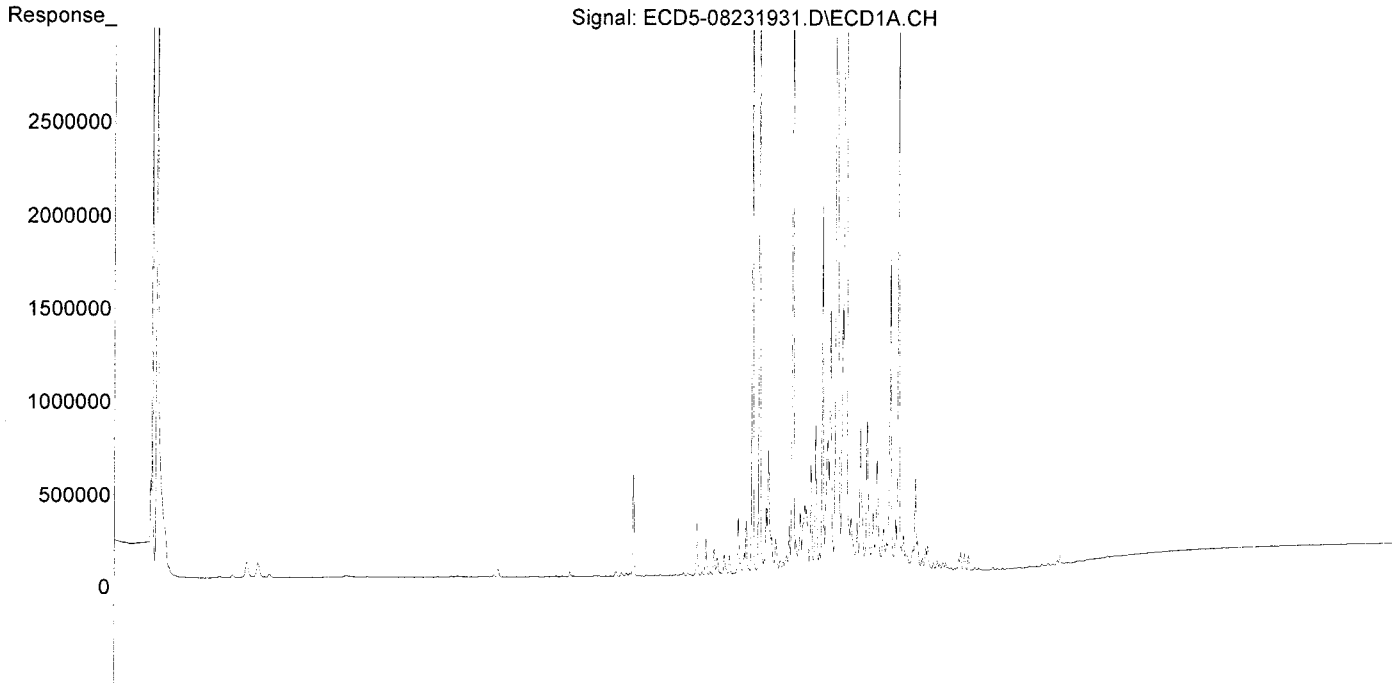
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231931.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 20:28  
Operator : MJB  
Sample : 9H23034-CALK  
Misc : A19F235, CHLOR 500 ppb  
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:04:52 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231932.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 20:45  
 Operator : MJB  
 Sample : 9H23034-CALL  
 Misc : A19F236, CHLOR 1000 ppb  
 ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:05:04 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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8/26/19

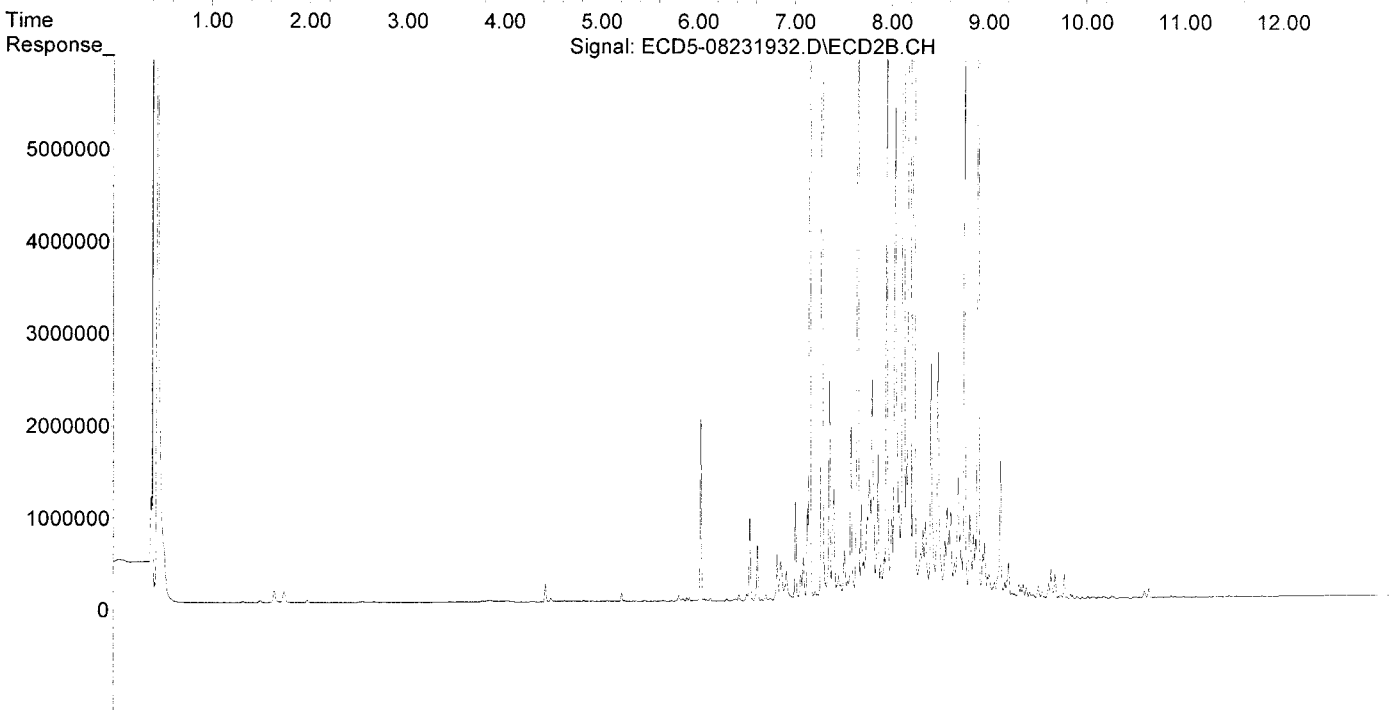
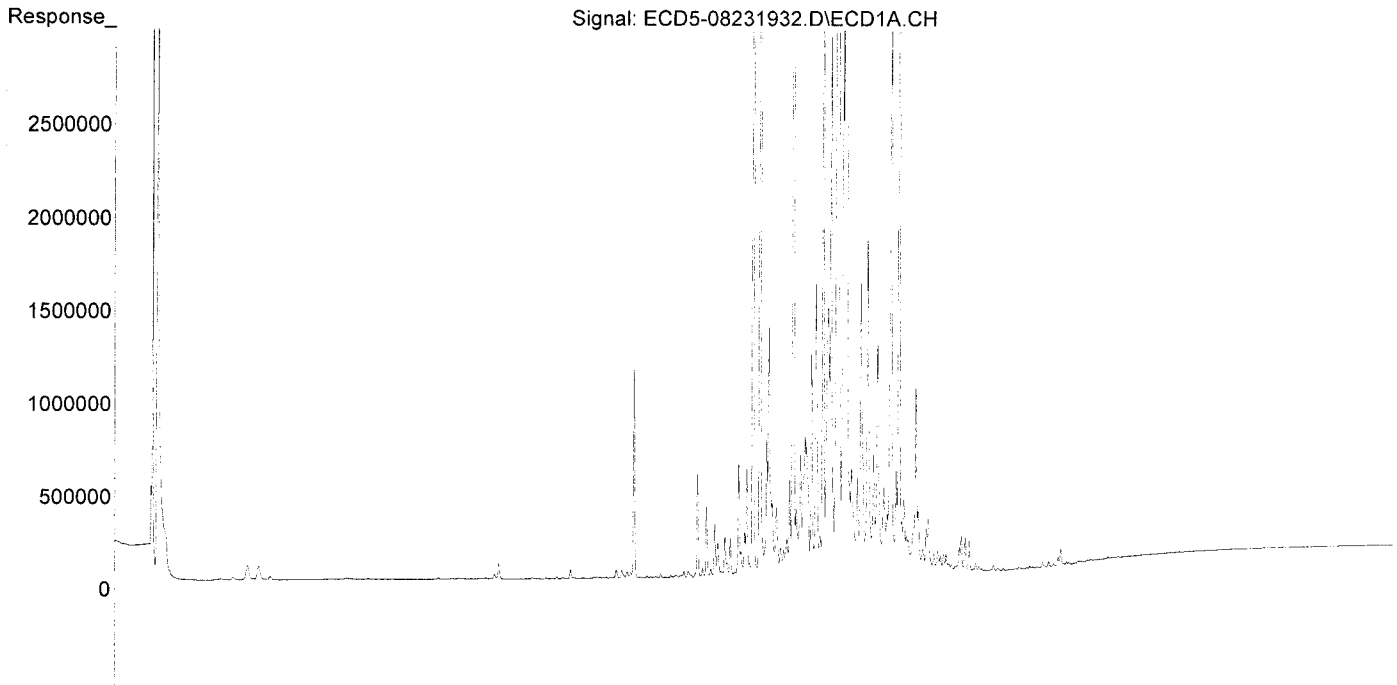
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.393	5.980	6433	11040	0.039	0.038
22) S DCBP (S)	9.604	10.553	33011	8716	0.234	0.048 #
Target Compounds						
2) a-BHC	0.000	6.622f	0	610263	N.D.	1.487 #
3) g-BHC	6.194f	6.923	179715	319626	0.891	0.896
4) b-BHC	6.322f	7.016f	206312	1070369	2.283	6.763 #
5) Heptachlor	6.631	7.288	8491782	15019038	46.839	49.085
6) d-BHC	6.411f	7.241	615917	64884	3.131	0.184 #
7) Aldrin	6.875	7.558	134371	205192	0.681	0.623
8) Heptachlo...	7.335	8.009	1431988	873449	7.775	2.903 #
9) trans-Chl...	7.426	8.130	19643766	37966746	106.245	121.173
10) cis-Chlor...	7.519	8.237	25083239	31493677	137.766	108.134
11) Endosulfa...	7.638	8.309f	523226	508009	3.075	1.846
12) 4,4'-DDE	7.576	8.332	564335	775935	2.993	2.498
13) Dieldrin	7.805	8.487	632206	2703774	3.293	8.890 #
14) Endrin	7.985f	8.713	3305895	704023	22.485	3.118 #
15) 4,4'-DDD	7.985	8.758	3305895	5865563	21.038	22.893
16) Endosulfa...	8.118	8.872	392448	653843	2.733	2.835
17) 4,4'-DDT	8.241f	8.994	1019486	242495	8.527	1.373 #
18) Endrin Al...	8.427f	9.128f	96085	1500188	BelowCal	7.301
19) Endosulfa...	8.708	9.269	190049	57556	1.226	0.231 #
20) Methoxychlor	8.552	9.462	93194	45695	1.591	0.381 #
21) Endrin Ke...	8.891	9.687	25043	266287	0.150	1.035 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.767	6.430f	12323	65416	0.070	0.208 #
25) Oxychlordane	7.252	7.933	207847	466300	1.263	1.702
26) 2,4'-DDE	7.335	8.130	1431988	37966746	11.165	178.972 #
27) trans-Non...	7.519	8.194	25083239	27721467	139.911	91.904
28) 2,4'-DDD	7.673f	8.487	1536407	2703774	13.462	14.316
29) 2,4'-DDT	7.912f	8.713	462112	704023	4.213	3.948
30) cis-Nonac...	7.985	8.758	3305895	5865563	15.923	17.486
31) Mirex	8.645	9.687	28961	266287	0.231	1.431 #
32) Chlordane...	7.426	8.130	19643766	37966746	997.671	1049.252
33) Chlordane...	7.519	8.237	25083239	31493677	1000.756	1037.202
34) Chlordane...	8.067	8.897	5987927	9358900	1035.773	1043.835
35) Chlordane...	3.447	0.000	4825	0	NoCal	N.D.
36) Toxaphene...	7.519	8.487f	25083239	2703774	28005.706	1030.300 #
37) Toxaphene...	7.805	8.814	632206	927954	391.474	281.965
38) Toxaphene...	8.118	8.850	392448	706508	116.540	139.397
39) Toxaphene...	8.348	8.897	233440	9358900	72.046	1120.849 #
40) Toxaphene...	8.552f	9.067f	93194	183092	38.877	39.287
41) Toxaphene...	8.645	9.462	28961	45695	9.152	9.620
42) Toxaphene...	3.447	0.000	4825	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231932.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 20:45  
Operator : MJB  
Sample : 9H23034-CALL  
Misc : A19F236, CHLOR 1000 ppb  
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:05:04 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231933.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 21:02  
 Operator : MJB  
 Sample : 9H23034-CALM  
 Misc : A19F231, CHLOR 2000 ppb  
 ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:05:14 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*8/26/19*

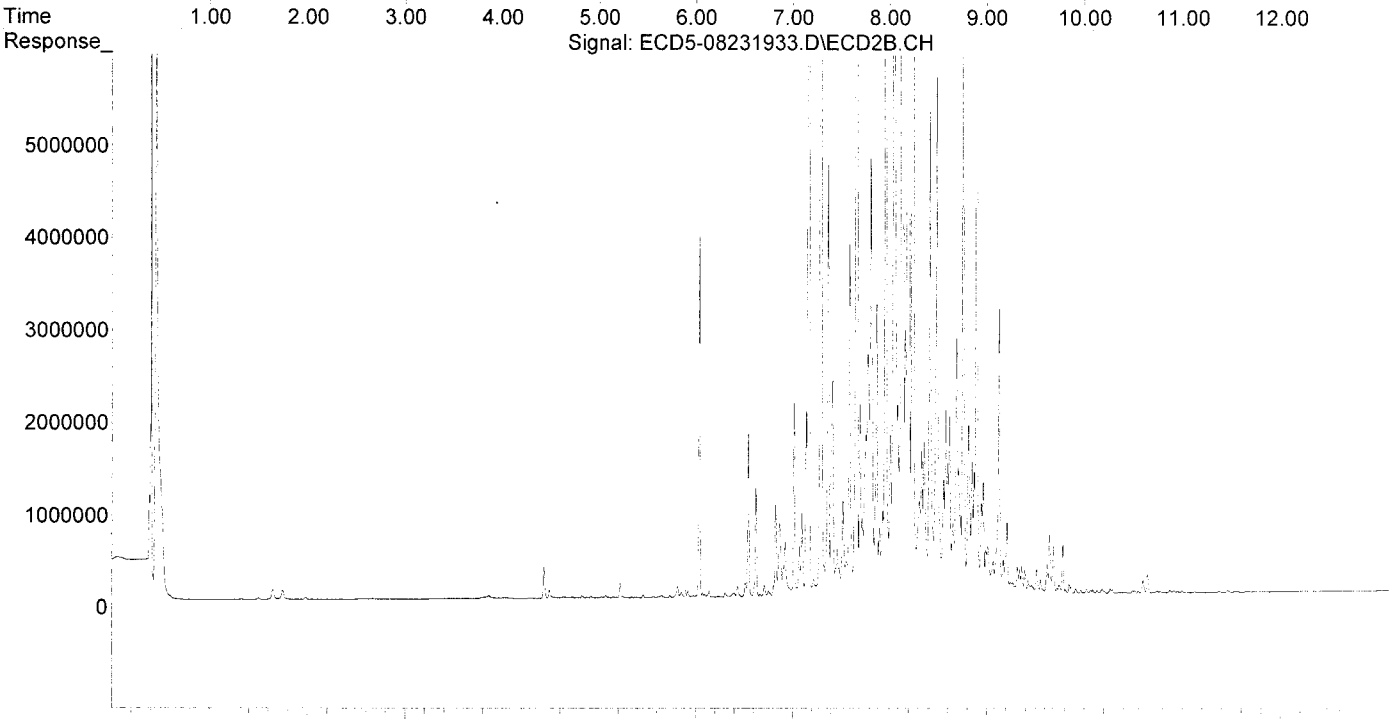
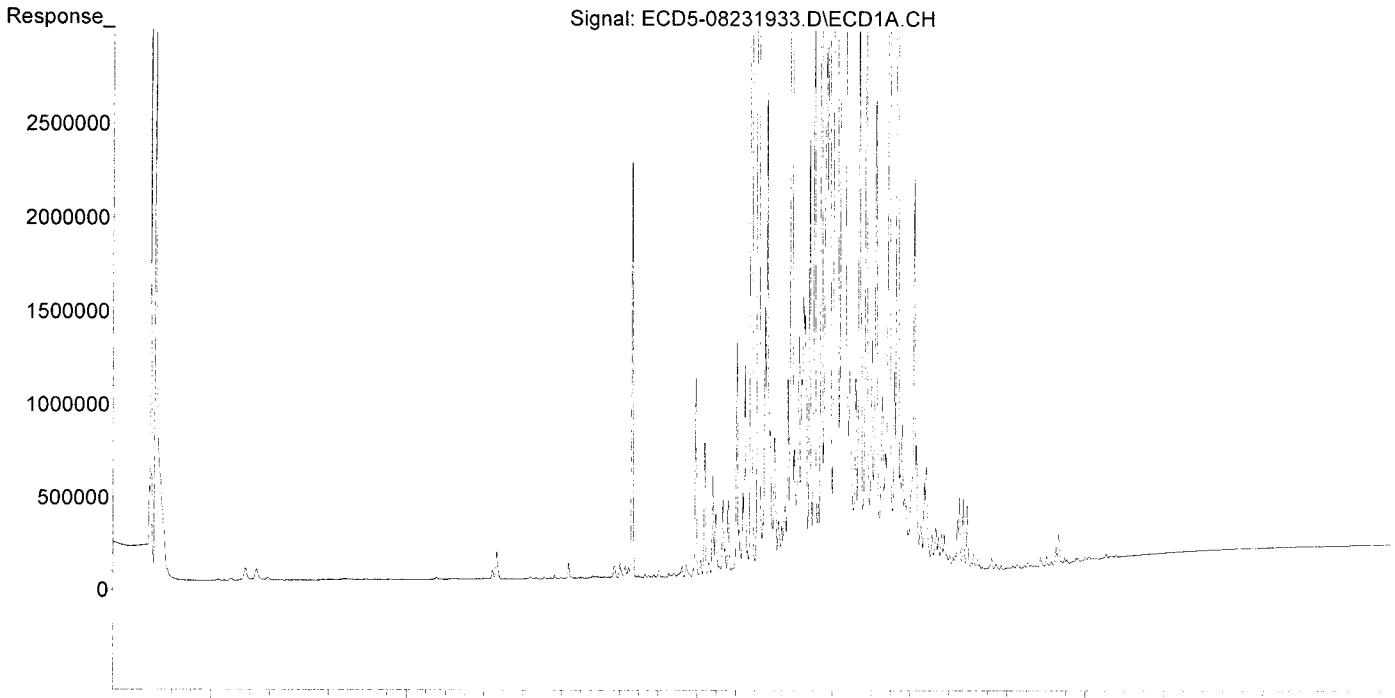
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.393	5.971	11655	15748	0.070	0.054
22) S DCBP (S)	9.604	10.552	57777	17575	0.409	0.098 #
Target Compounds						
2) a-BHC	0.000	6.621f	0	1174704	N.D.	2.863 #
3) g-BHC	6.193f	6.922	334417	594314	1.657	1.666
4) b-BHC	6.321f	7.016f	403109	2092681	4.460	13.223 #
5) Heptachlor	6.630	7.288	16898199	31950039	93.207	104.420
6) d-BHC	6.411f	7.240	1241284	122584	6.311	0.348 #
7) Aldrin	6.874	7.557	258489	381283	1.309	1.158
8) Heptachlo...	7.335	8.008	2829322	1755780	15.362	5.836 #
9) trans-Chl...	7.426	8.130	40036500	81691713	216.541	260.724
10) cis-Chlor...	7.519	8.238	50979142	66281388	279.996	227.578
11) Endosulfa...	7.638	8.308	1047673	1022624	6.156	3.716
12) 4,4'-DDE	7.576	8.332	1098754	1565142	5.828	5.038
13) Dieldrin	7.805	8.486	1246658	5614133	6.494	18.458 #
14) Endrin	7.984f	8.692f	6820662	2823722	46.391	12.504 #
15) 4,4'-DDD	7.984	8.759	6820662	12014776	43.405	46.894
16) Endosulfa...	8.118	8.872	787524	1320218	5.484	5.725
17) 4,4'-DDT	8.242f	8.993	2107649	483614	17.628	2.768 #
18) Endrin Al...	8.427f	9.128f	193793	3090717	0.642	15.775 #
19) Endosulfa...	8.709	9.268f	400484	128754	2.584	0.517 #
20) Methoxychlor	8.552	9.462	195767	96597	3.342	1.012 #
21) Endrin Ke...	8.892	9.686	57711	528113	0.346	2.052 #
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.766	6.430f	22503	117032	0.128	0.373 #
25) Oxychlorane	7.252	7.932	378689	930396	2.302	3.397 #
26) 2,4'-DDE	7.335	8.130	2829322	81691713	22.059	385.087 #
27) trans-Non...	7.519	8.194	50979142	59315099	285.157	196.645
28) 2,4'-DDD	7.673f	8.486	3134690	5614133	27.467	29.726
29) 2,4'-DDT	7.912f	8.692f	956476	2823722	8.720	15.833 #
30) cis-Nonac...	7.984	8.759	6820662	12014776	32.852	35.817
31) Mirex	8.645	9.686	70178	528113	0.560	2.838 #
32) Chlordane...	7.426	8.130	40036500	81691713	2033.382	2257.639
33) Chlordane...	7.519	8.238	50979142	66281388	2033.935	2182.889
34) Chlordane...	8.067	8.897	12208306	19418517	2111.754	2165.824
35) Chlordane...	3.449	0.000	4939	0	NoCal	N.D.
36) Toxaphene...	7.519	8.486f	50979142	5614133	56918.762	2139.322 #
37) Toxaphene...	7.805	8.814	1246658	1872513	771.954	568.976
38) Toxaphene...	8.118	8.850	787524	1450920	233.861	286.273
39) Toxaphene...	8.368f	8.897	565943	19418517	174.666	2325.617 #
40) Toxaphene...	8.552f	9.067f	195767	367185	81.667	78.789
41) Toxaphene...	8.645	9.462	70178	96597	22.176	20.335
42) Toxaphene...	3.449	0.000	4939	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231933.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:02  
Operator : MJB  
Sample : 9H23034-CALM  
Misc : A19F231, CHLOR 2000 ppb  
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:05:14 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231936.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 21:54  
 Operator : MJB  
 Sample : 9H23034-CALN  
 Misc : A19D122, TOX 50 ppb  
 ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:06:20 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB  
8/26/19*

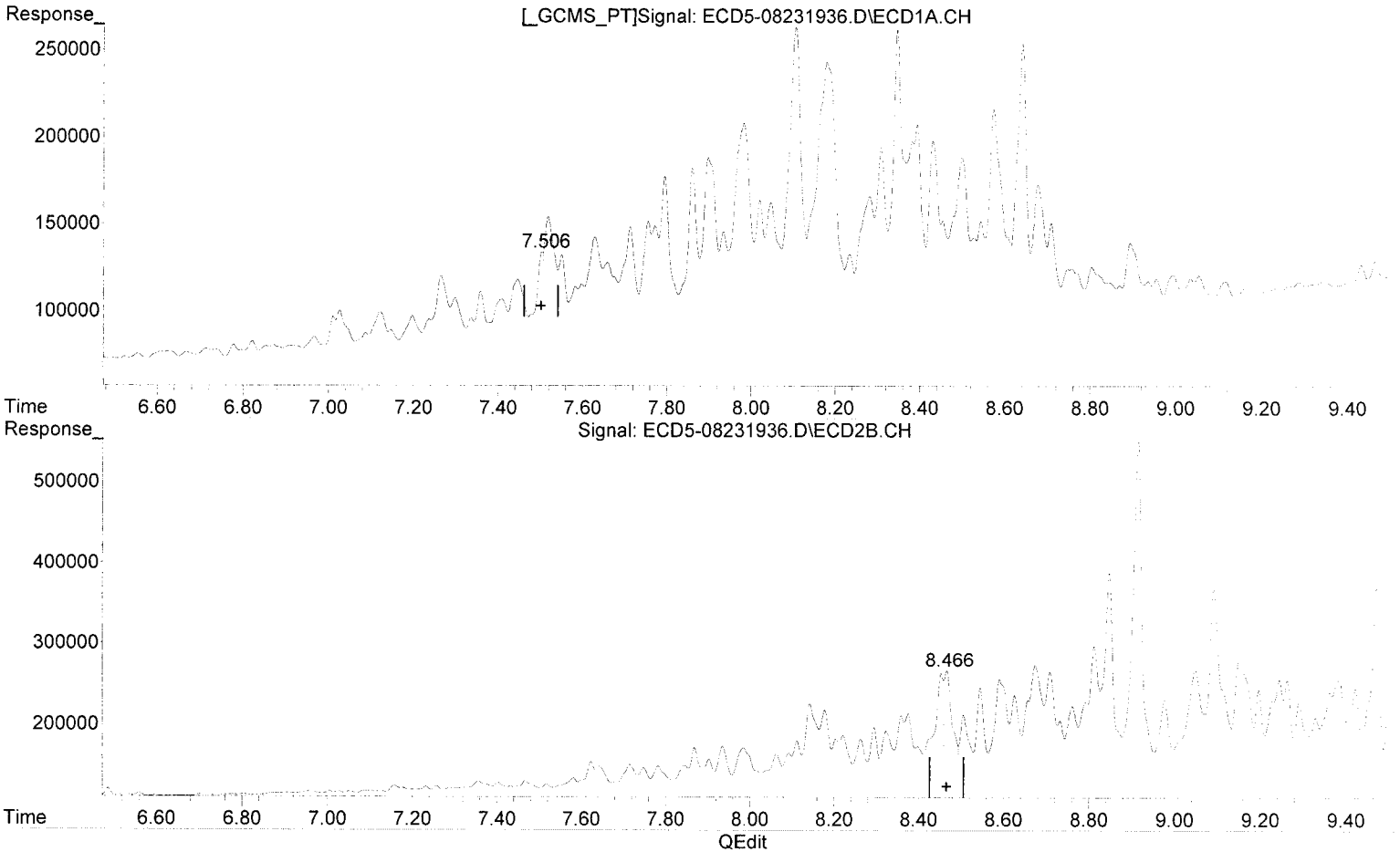
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	6201	N.D.	0.021 #
22) S DCBP (S)	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.249f	0.000	4430	0	0.022	N.D. #
4) b-BHC	6.297	0.000	3017	0	0.033	N.D. #
5) Heptachlor	6.627	0.000	4370	0	0.024	N.D. #
6) d-BHC	6.469f	0.000	2958	0	0.015	N.D. #
7) Aldrin	6.871	7.582f	4859	11806	0.025	0.036 #
8) Heptachlo...	7.336	7.985	13601	46078	0.074	0.153 #
9) trans-Chl...	7.446	8.142	34060	99117	0.184	0.316 #
10) cis-Chlor...	7.518	8.221	69068	59106	0.379	0.203 #
11) Endosulfa...	7.629	8.294	55946	68659	0.329	0.250
12) 4,4'-DDE	7.550f	8.359	47125	82546	0.250	0.266
13) Dieldrin	7.794	8.505	88321	82204	0.460	0.270 #
14) Endrin	7.934f	8.709	54457	133121	0.370	0.589 #
15) 4,4'-DDD	8.020	8.762	70973	90688	0.452	0.354
16) Endosulfa...	8.105	8.847	169381	254833	1.179	1.105
17) 4,4'-DDT	8.180f	8.977	146997	96725	1.229	0.525 #
18) Endrin Al...	8.392	9.091	108459	233185	BelowCal	0.427
19) Endosulfa...	8.708	9.291	48053	90329	0.310	0.363
20) Methoxychlor	8.573f	9.470	114720	230922	1.959	2.668
21) Endrin Ke...	8.894	9.711f	33550	36259	0.201	0.141
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	0.000	6.487f	0	8846	N.D.	0.028 #
25) Oxychlordane	7.265	7.935	38772	48452	0.236	0.177
26) 2,4'-DDE	7.336	8.112	13601	53529	0.106	0.252 #
27) trans-Non...	7.518	8.204	69068	54722	0.069	0.181 #
28) 2,4'-DDD	7.713	8.505	60294	82204	0.528	0.435
29) 2,4'-DDT	7.899	8.709	96979	133121	0.884	0.746
30) cis-Nonac...	7.981	8.762	116026	90688	0.559	0.270 #
31) Mirex	8.641	9.711f	153138	36259	1.222	0.195 #
32) Chlordane...	7.446	8.142	34060	99117	1.730	2.739 #
33) Chlordane...	7.518	8.221	69068	59106	2.756	1.947
34) Chlordane...	8.047f	8.915	69875	416348	12.087	46.437 #
35) Chlordane...	3.449	0.000	4023	0	NoCal	N.D.
36) Toxaphene...	7.506	8.466	49110	136848	54.832m	52.147
37) Toxaphene...	7.794	8.813	88321	164706	54.690	50.047
38) Toxaphene...	8.105	8.847	169381	254833	50.299	50.280
39) Toxaphene...	8.346	8.915	164317	416348	50.713	49.863
40) Toxaphene...	8.573	9.091	114720	233185	47.857	50.036
41) Toxaphene...	8.641	9.470	153138	230922	48.391	48.613
42) Toxaphene...	3.449	0.000	4023	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231936.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:54  
Operator : MJB  
Sample : 9H23034-CALN  
Misc : A19D122, TOX 50 ppb  
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:05:49 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)  
7.506min 54.832 ng/mL  
response 49110

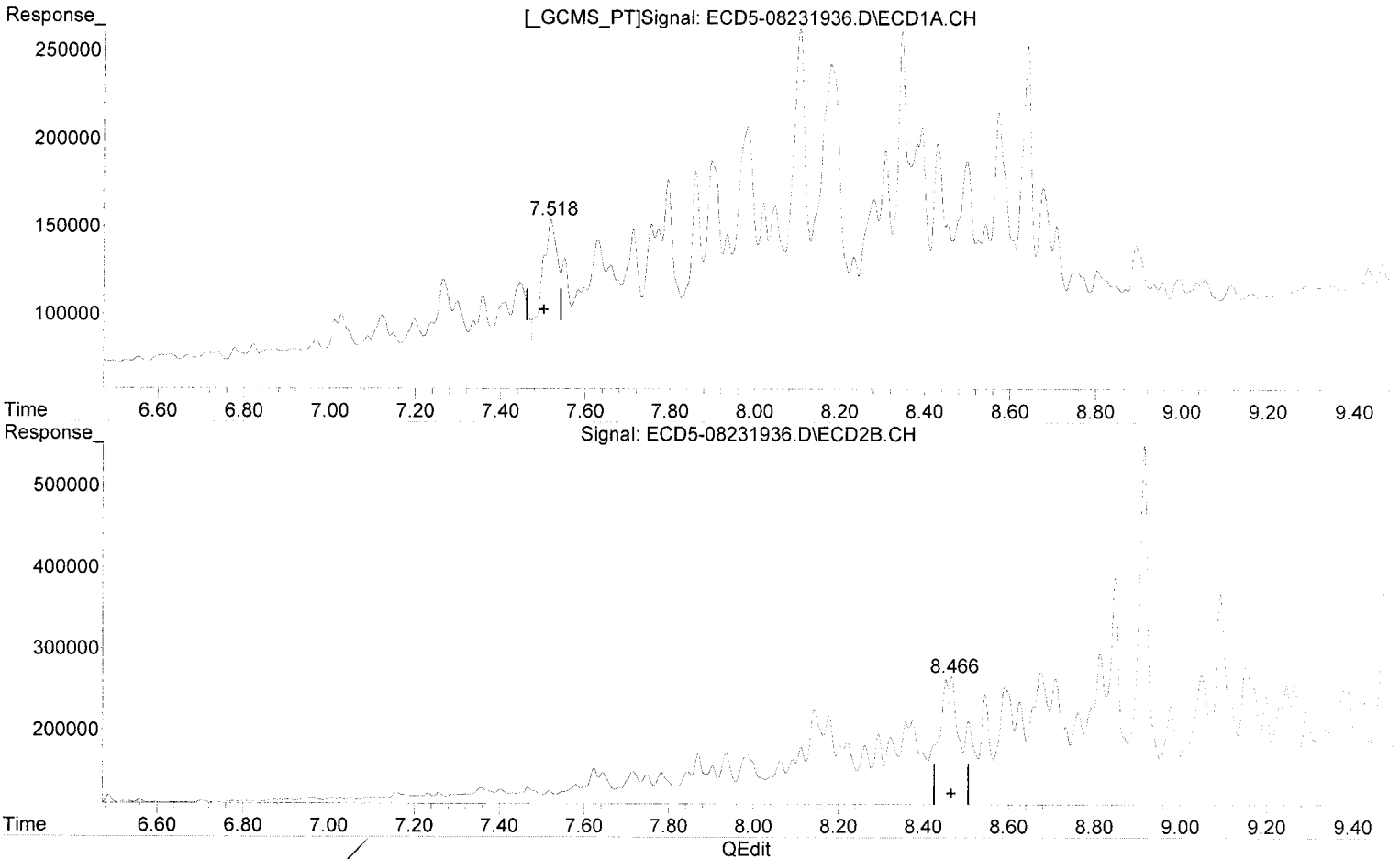
*MJB 8/26/19*

(36) Toxaphene (1) #2  
8.466min 52.147 ng/mL  
response 136848

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231936.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:54  
Operator : MJB  
Sample : 9H23034-CALN  
Misc : A19D122, TOX 50 ppb  
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:05:49 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)  
7.518min 77.175 ng/mL  
response 69068

*MJB*  
*8/26/19*

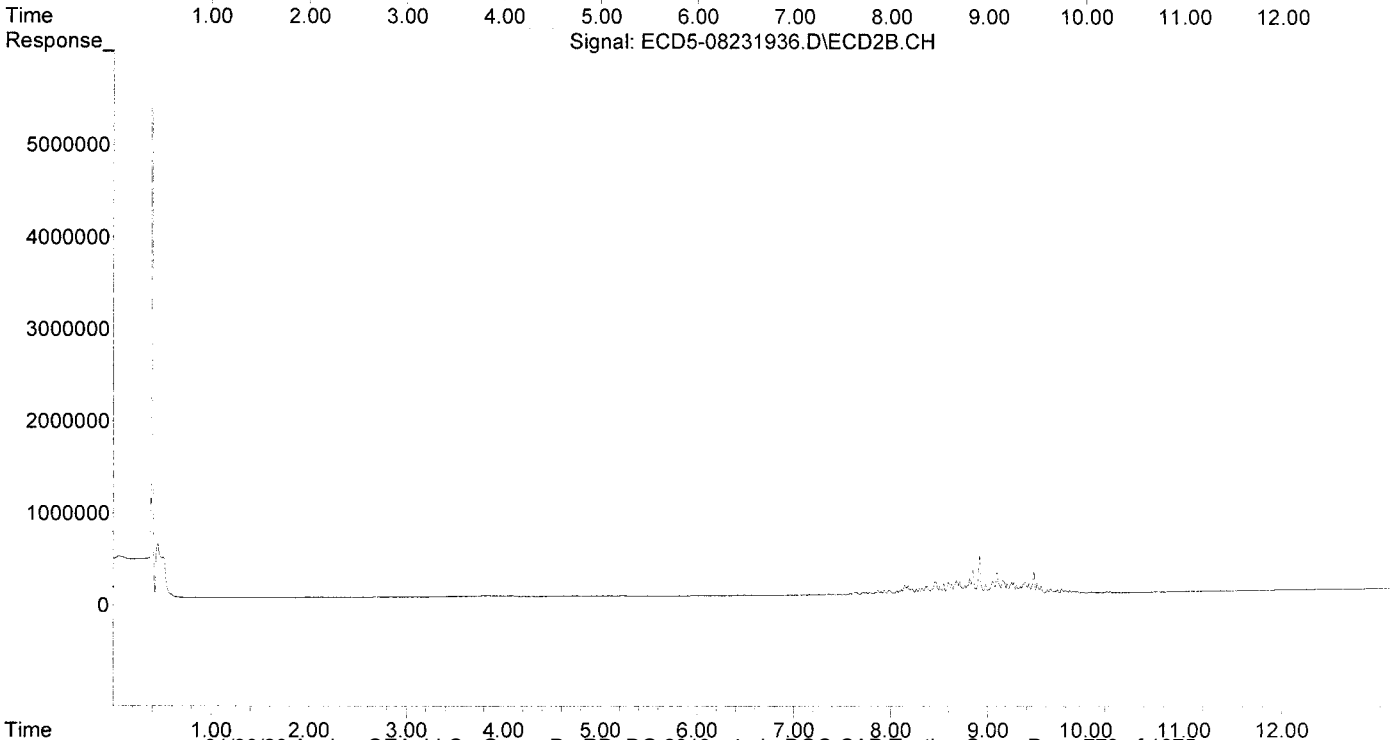
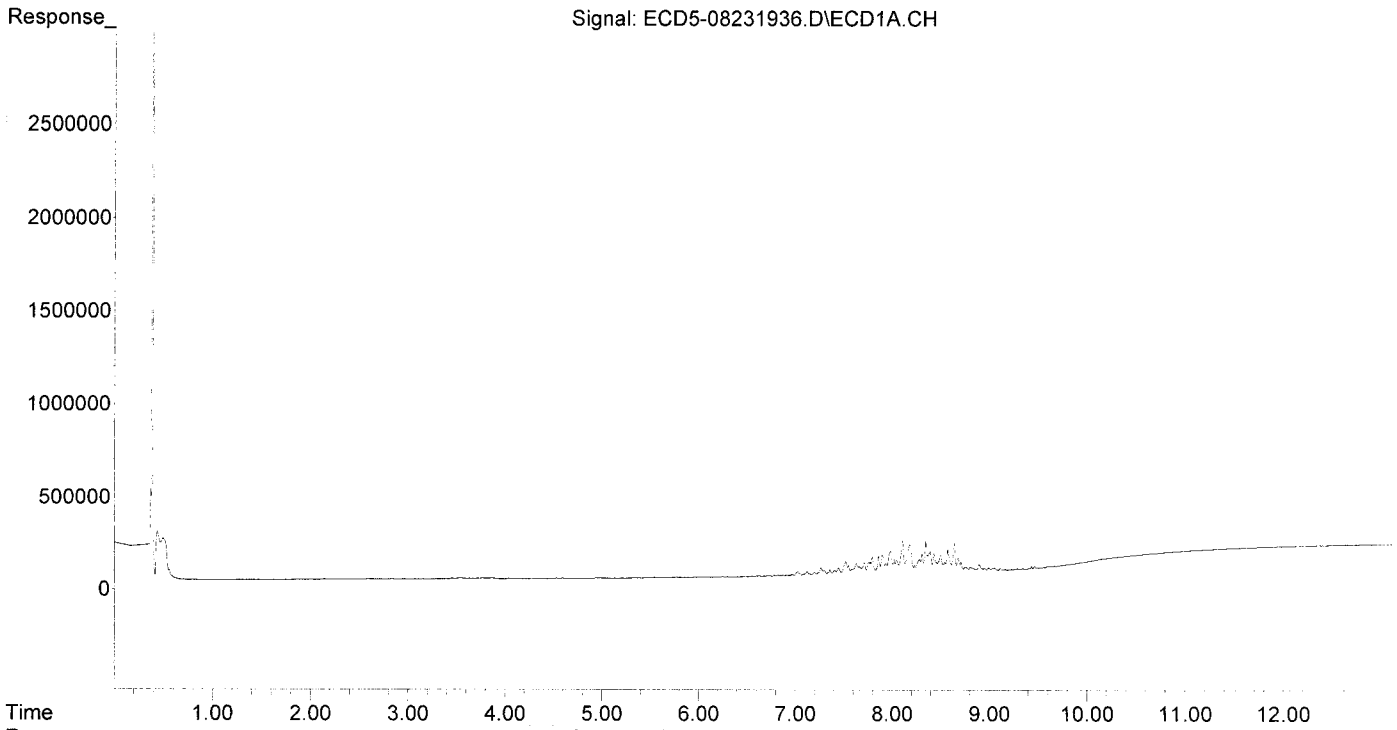
(36) Toxaphene (1) #2  
8.466min 52.147 ng/mL  
response 136848



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231936.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:54  
Operator : MJB  
Sample : 9H23034-CALN  
Misc : A19D122, TOX 50 ppb  
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:06:20 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231937.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 22:11  
 Operator : MJB  
 Sample : 9H23034-CALO  
 Misc : A19D123, TOX 100 ppb  
 ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:07:08 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

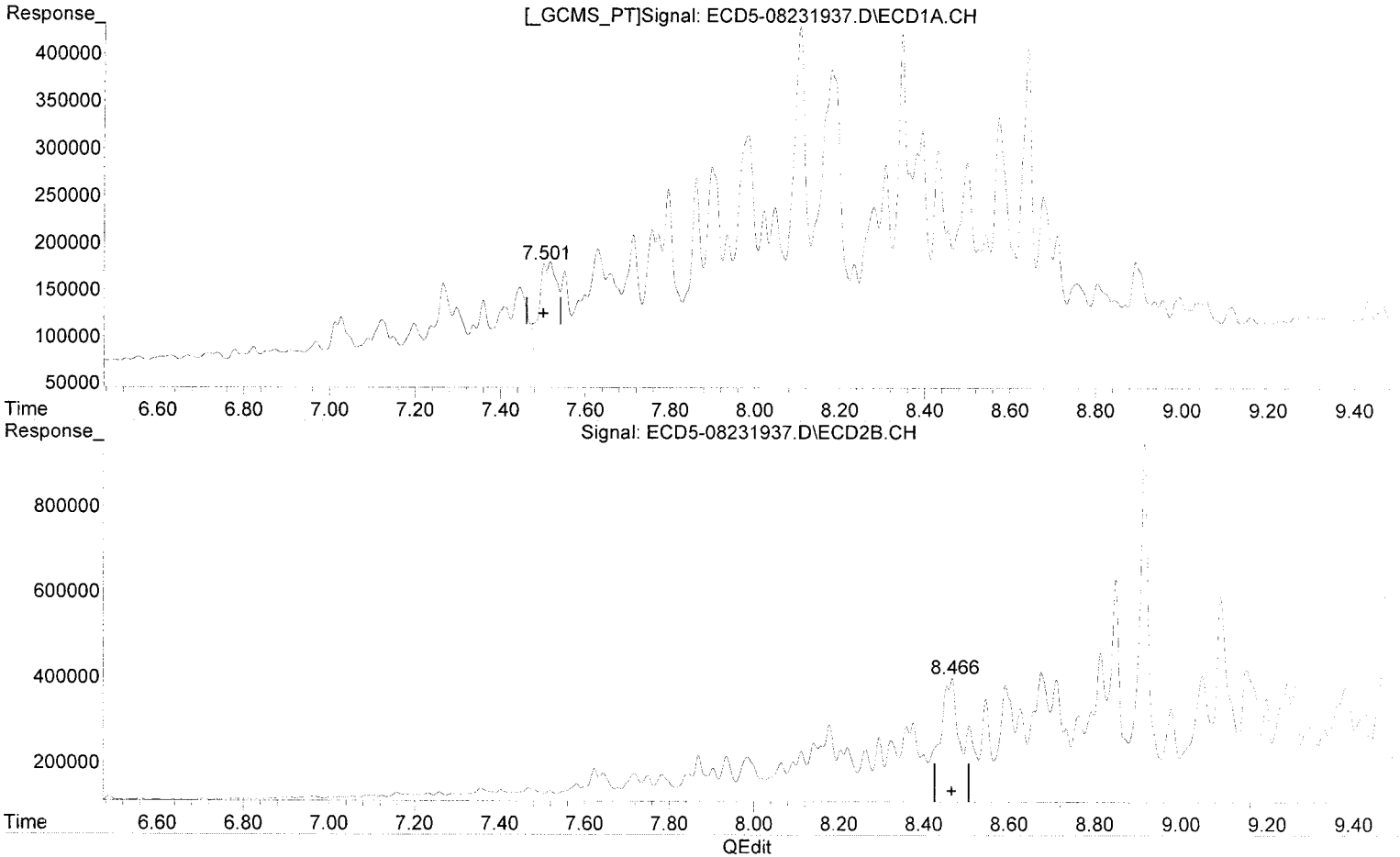
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.985	0	6562	N.D.	0.022 #
2) S DCBP (S)	9.592	0.000	4802	0	0.034	N.D. #
Target Compounds						
2) a-BHC	5.952	0.000	2451	0	0.011	N.D. #
3) g-BHC	6.250f	0.000	4208	0	0.021	N.D. #
4) b-BHC	6.297	6.965	3419	5803	0.038	0.037
5) Heptachlor	6.629	7.259f	5698	7338	0.031	0.024
6) d-BHC	6.470f	7.259f	3844	7338	0.020	0.021
7) Aldrin	6.872	7.582f	9196	24729	0.047	0.075 #
8) Heptachlo...	7.359f	7.984	53934	87078	0.293	0.289
9) trans-Chl...	7.445	8.141	66985	117380	0.362	0.375
10) cis-Chlor...	7.517	8.220	93146	107177	0.512	0.368
11) Endosulfa...	7.629	8.295	104883	129689	0.616	0.471
12) 4,4'-DDE	7.551f	8.359	82562	155356	0.438	0.500
13) Dieldrin	7.795	8.506	166085	156611	0.865	0.515 #
14) Endrin	7.934f	8.710	115324	262153	0.784	1.161 #
15) 4,4'-DDD	8.021	8.762	139852	178338	0.890	0.696
16) Endosulfa...	8.106	8.848	332842	494430	2.318	2.144
17) 4,4'-DDT	8.182f	8.977	285351	192921	2.387	1.085 #
18) Endrin Al...	8.393	9.091	215405	452209	0.828	1.624 #
19) Endosulfa...	8.710	9.291	103697	183737	0.669	0.738
20) Methoxychlor	8.543	9.471	105544	452485	1.802	5.374 #
21) Endrin Ke...	8.894	9.712f	71764	83930	0.430	0.326
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.811f	6.488f	2684	8988	0.015	0.029 #
25) Oxychlordane	7.266	7.935	73507	87358	0.447	0.319
26) 2,4'-DDE	7.359f	8.112	53934	99205	0.420	0.468
27) trans-Non...	7.517	8.204	93146	102328	0.204	0.339 #
28) 2,4'-DDD	7.713	8.506	118203	156611	1.036	0.829
29) 2,4'-DDT	7.899	8.710	187872	262153	1.713	1.470
30) cis-Nonac...	7.982	8.762	219963	178338	1.059	0.532 #
31) Mirex	8.641	9.712f	302577	83930	2.414	0.451 #
32) Chlordane...	7.410	8.141	46689	117380	2.371	3.244
33) Chlordane...	7.517	8.220	93146	107177	3.716	3.530
34) Chlordane...	8.047f	8.915	142490	811948	24.647	90.560 #
35) Chlordane...	3.450	0.000	3536	0	NoCal	N.D.
36) Toxaphene...	7.501	8.466	91358	267534	102.002m	101.946
37) Toxaphene...	7.795	8.813	166085	324070	102.843	98.471
38) Toxaphene...	8.106	8.848	322842	494430	98.840	97.553
39) Toxaphene...	8.346	8.915	330313	811948	98.857	97.241
40) Toxaphene...	8.574	9.091	228960	452209	95.514	97.033
41) Toxaphene...	8.641	9.471	302577	452485	95.614	95.256
42) Toxaphene...	3.450	0.000	3536	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:11  
Operator : MJB  
Sample : 9H23034-CALO  
Misc : A19D123, TOX 100 ppb  
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:06:39 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)  
7.501min 102.002 ng/mL (+)  
response 91358

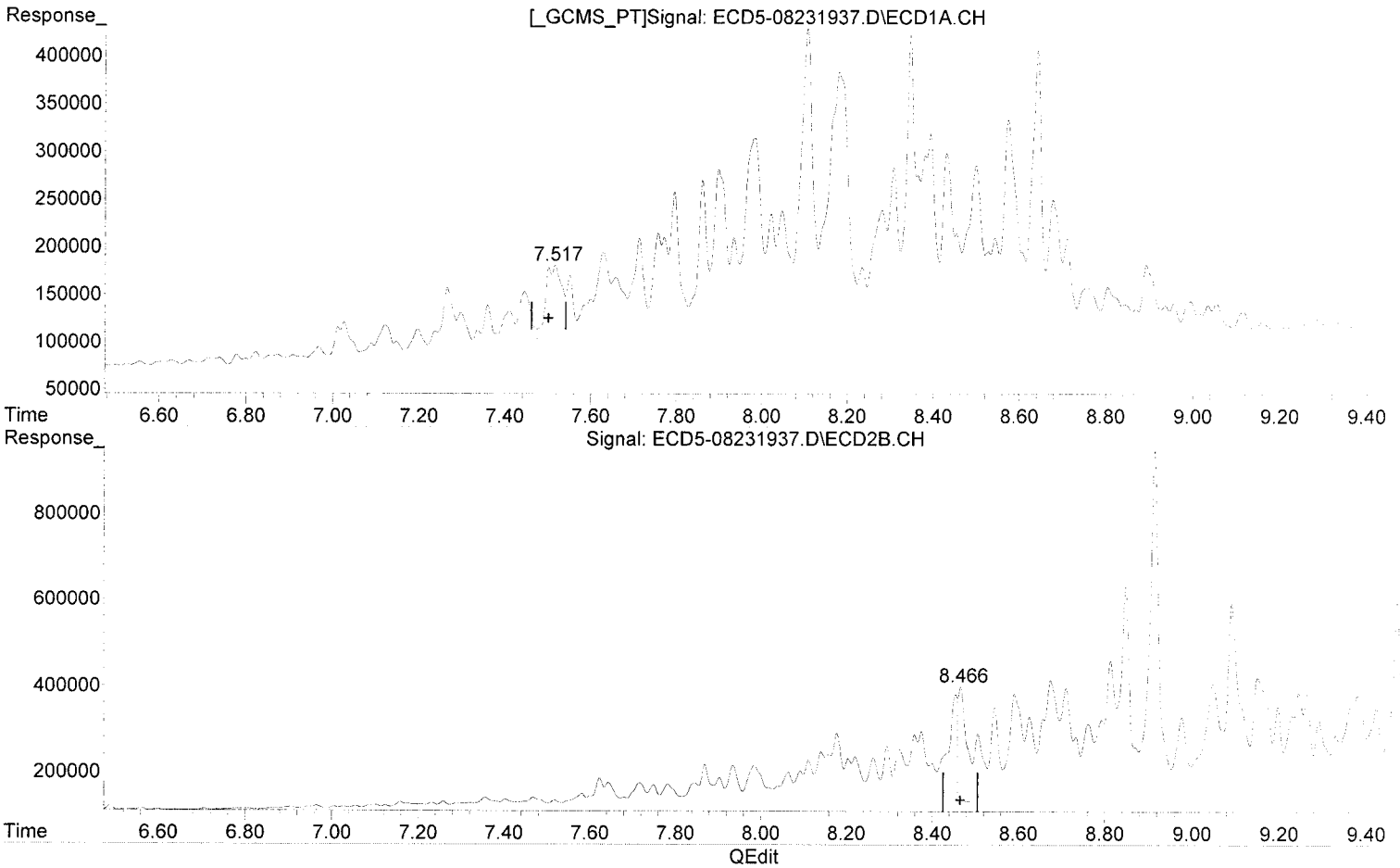
(36) Toxaphene (1) #2  
8.466min 101.946 ng/mL  
response 267534

~~MJB 8/26/19~~  
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MJB 8/26/19

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:11  
Operator : MJB  
Sample : 9H23034-CALO  
Misc : A19D123, TOX 100 ppb  
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:06:39 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



~~(36) Toxaphene (1)  
7.517min 103.998 ng/mL  
response 93146~~

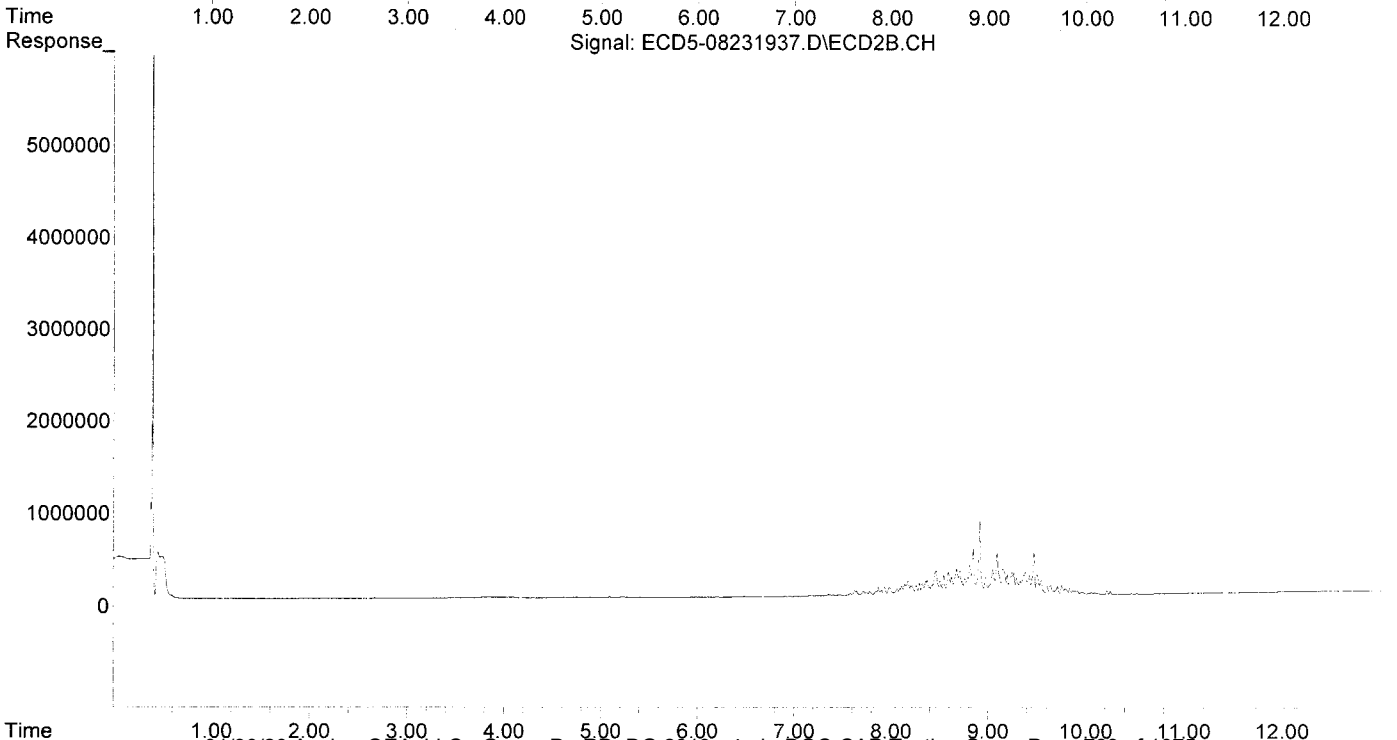
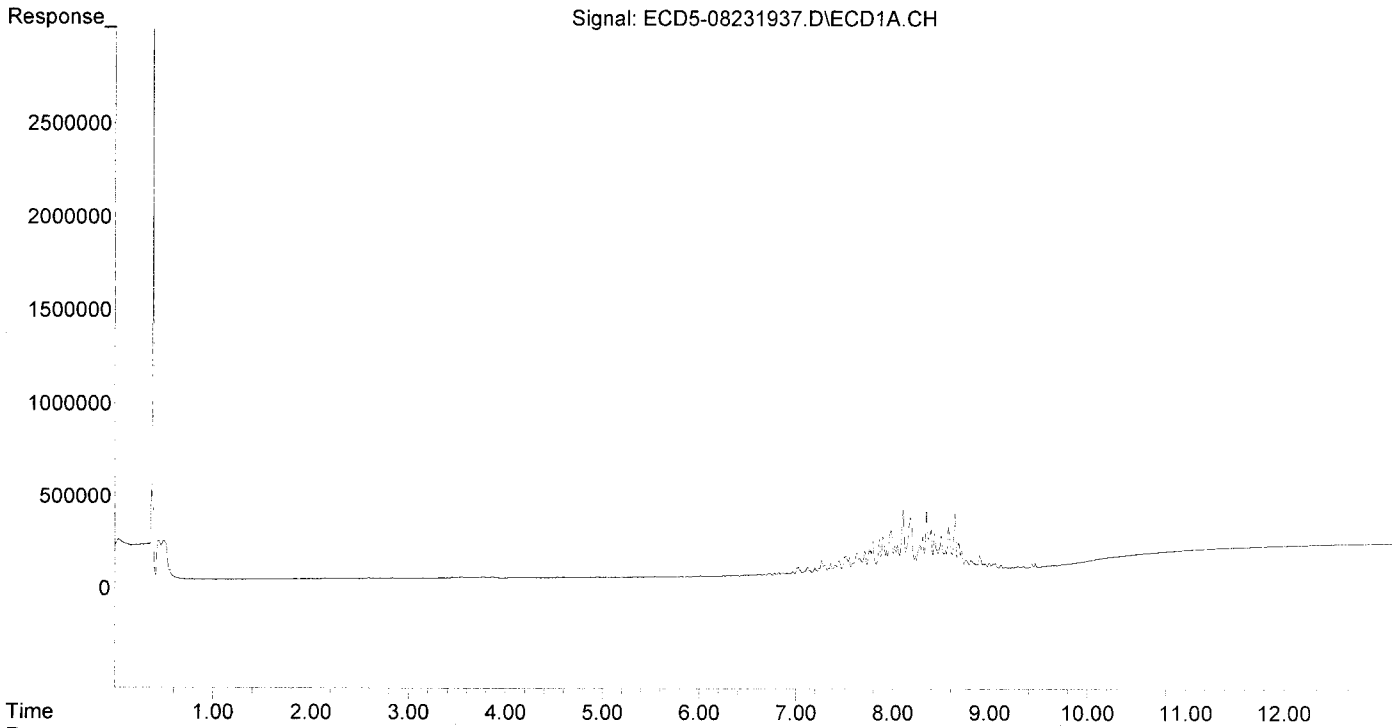
*MJB 8/26/19*

(36) Toxaphene (1) #2  
8.466min 101.946 ng/mL  
response 267534

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:11  
Operator : MJB  
Sample : 9H23034-CALO  
Misc : A19D123, TOX 100 ppb  
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:07:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 22:28  
 Operator : MJB  
 Sample : 9H23034-CALP  
 Misc : A19D124, TOX 200 ppb  
 ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:07:22 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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8/26/19

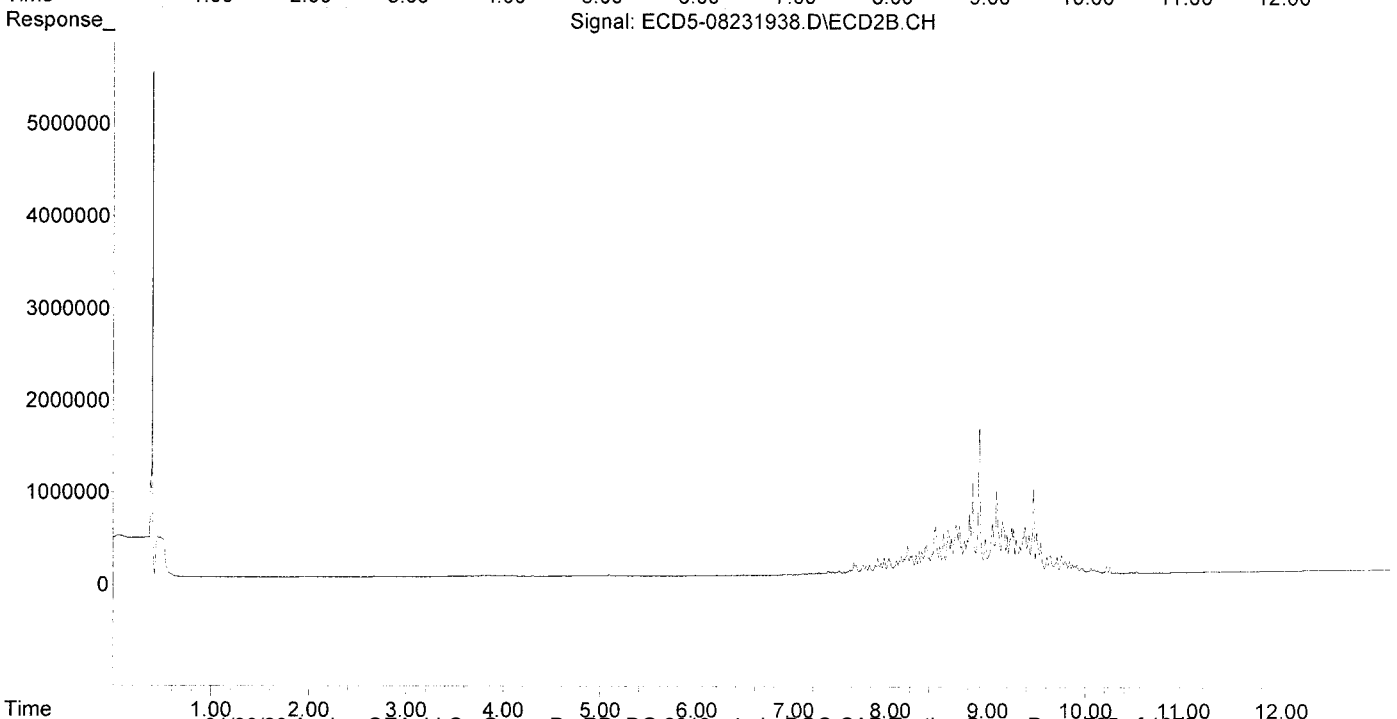
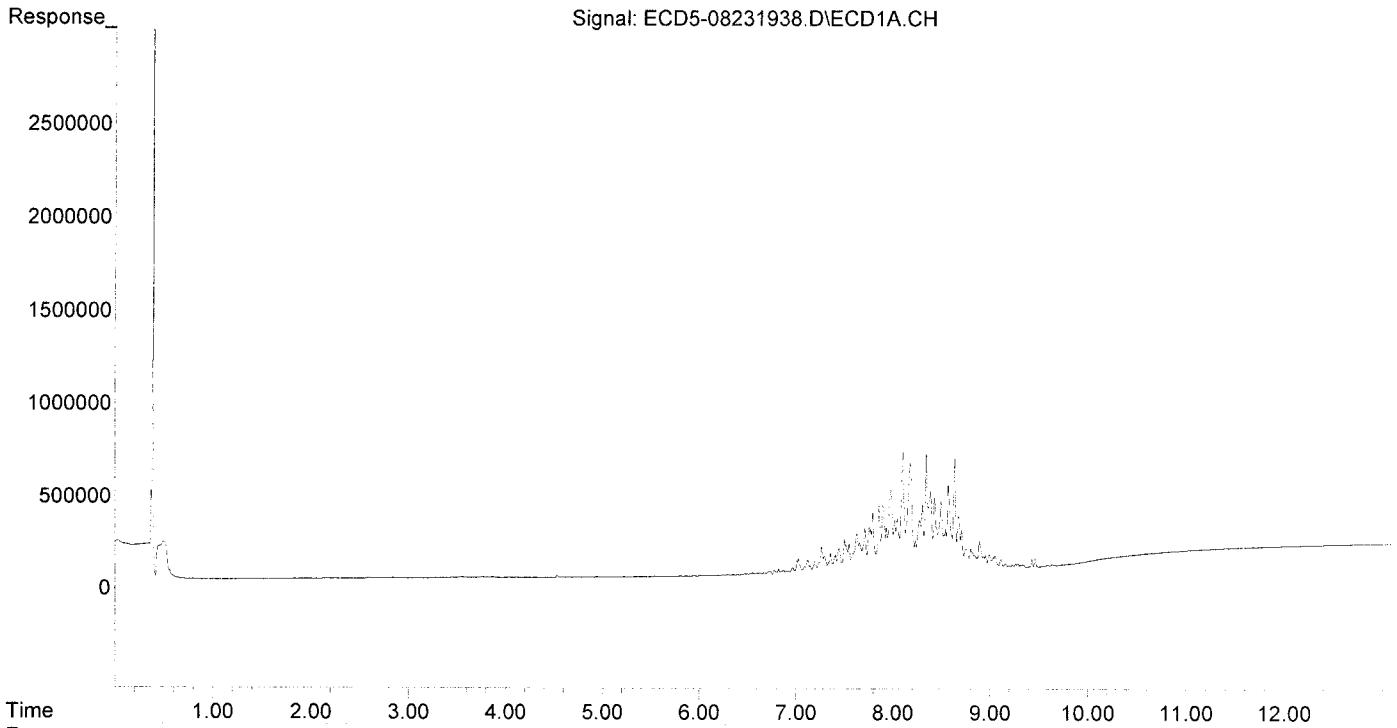
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.984	0	6031	N.D.	0.021 #
22) S DCBP (S)	9.591	10.521	8317	11024	0.059	0.061
Target Compounds						
2) a-BHC	5.950	0.000	2445	0	0.011	N.D. #
3) g-BHC	6.249f	6.906	4762	8484	0.024	0.024
4) b-BHC	6.297	6.965	5553	11866	0.061	0.075
5) Heptachlor	6.630	7.292	9834	18991	0.054	0.062
6) d-BHC	6.469f	7.232	7279	22404	0.037	0.064 #
7) Aldrin	6.872	7.582f	20475	52234	0.104	0.159 #
8) Heptachlo...	7.336	7.984	58943	180203	0.320	0.599 #
9) trans-Chl...	7.445	8.139	130754	171469	0.707	0.547
10) cis-Chlor...	7.502f	8.220	176047	207038	0.967	0.711
11) Endosulfa...	7.629	8.294	203563	255143	1.196	0.927
12) 4,4'-DDE	7.551f	8.358	153844	307212	0.816	0.989
13) Dieldrin	7.795	8.506	317587	302159	1.654	0.993
14) Endrin	7.934f	8.709	233827	517355	1.590	2.291 #
15) 4,4'-DDD	8.021	8.761	271844	361076	1.730	1.409
16) Endosulfa...	8.105	8.847	644464	995555	4.488	4.317
17) 4,4'-DDT	8.182f	8.976	572615	378347	4.789	2.160 #
18) Endrin Al...	8.392	9.090	423151	895397	2.609	4.034 #
19) Endosulfa...	8.709	9.290	207483	368442	1.339	1.479
20) Methoxychlor	8.543	9.469	215126	905244	3.673	10.806 #
21) Endrin Ke...	8.893	9.711f	142657	173912	0.855	0.676
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.811f	6.487f	2563	8587	0.015	0.027 #
25) Oxychlorthane	7.266	7.935	140581	179085	0.854	0.654
26) 2,4'-DDE	7.336	8.112	58943	198883	0.460	0.938 #
27) trans-Non...	7.502	8.205	176047	199265	0.666	0.661
28) 2,4'-DDD	7.713	8.506	232393	302159	2.036	1.600
29) 2,4'-DDT	7.899	8.709	356627	517355	3.251	2.901
30) cis-Nonac...	7.982	8.761	437778	361076	2.109	1.076 #
31) Mirex	8.640	9.711f	597991	173912	4.770	0.935 #
32) Chlordane...	7.445	8.139	130754	171469	6.641	4.739
33) Chlordane...	7.502	8.220	176047	207038	7.024	6.819
34) Chlordane...	8.047f	8.914	280898	1580436	48.589	176.272 #
35) Chlordane...	3.451	0.000	3919	0	NoCal	N.D.
36) Toxaphene...	7.502	8.466	176047	508983	196.559	193.953
37) Toxaphene...	7.795	8.812	317587	645322	196.656	196.085
38) Toxaphene...	8.105	8.847	644464	995555	191.378	196.427
39) Toxaphene...	8.346	8.914	632351	1580436	195.161	189.278
40) Toxaphene...	8.574	9.090	454431	895397	189.572	192.130
41) Toxaphene...	8.640	9.469	597991	905244	188.964	190.570
42) Toxaphene...	3.451	0.000	3919	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:28  
Operator : MJB  
Sample : 9H23034-CALP  
Misc : A19D124, TOX 200 ppb  
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:07:22 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231939.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 22:45  
 Operator : MJB  
 Sample : 9H23034-CALQ  
 Misc : A19D125, TOX 500 ppb  
 ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:07:35 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

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	5601	N.D.	0.019 #
22) S DCBP (S)	9.591	10.521	21035	39647	0.149	0.221 #
Target Compounds						
2) a-BHC	5.938	6.598	3646	8422	0.016	0.021
3) g-BHC	6.246f	6.908	6276	21315	0.031	0.060 #
4) b-BHC	6.296	6.966	12656	26420	0.140	0.167
5) Heptachlor	6.631	7.291	26275	48687	0.145	0.159
6) d-BHC	6.434	7.233	12949	50866	0.066	0.144 #
7) Aldrin	6.871	7.582f	54986	128738	0.278	0.391 #
8) Heptachlo...	7.337	7.985	148782	431601	0.808	1.435 #
9) trans-Chl...	7.445	8.136	326510	348418	1.766	1.112
10) cis-Chlor...	7.502f	8.220	441826	492762	2.427	1.692
11) Endosulfa...	7.629	8.295	523361	619890	3.075	2.253
12) 4,4'-DDE	7.551f	8.358	370244	790371	1.964	2.544
13) Dieldrin	7.794	8.506	819454	752423	4.268	2.474 #
14) Endrin	7.934f	8.711	624315	1366705	4.246	6.052 #
15) 4,4'-DDD	8.021	8.761	715456	940917	4.553	3.672
16) Endosulfa...	8.105	8.848	1677481	2475022	11.681	10.733
17) 4,4'-DDT	8.182f	8.977	1480674	1000646	12.384	5.736 #
18) Endrin Al...	8.392	9.091	1117641	2340668	8.532	11.800
19) Endosulfa...	8.709	9.290	555797	952729	3.586	3.825
20) Methoxychlor	8.574f	9.470	1221560	2369795	20.855	27.582
21) Endrin Ke...	8.894	9.711f	386326	477017	2.317	1.854
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.814f	6.461	4241	6767	0.024	0.022
25) Oxychlorane	7.265	7.936	350487	422818	2.130	1.544
26) 2,4'-DDE	7.337	8.112	148782	485681	1.160	2.289 #
27) trans-Non...	7.502	8.205	441826	487255	2.150	1.615
28) 2,4'-DDD	7.713	8.506	583556	752423	5.113	3.984
29) 2,4'-DDT	7.899	8.711	935213	1366705	8.526	7.664
30) cis-Nonac...	7.981	8.761	1117997	940917	5.385	2.805 #
31) Mirex	8.640	9.711f	1623402	477017	12.949	2.564 #
32) Chlordane...	7.408	8.136	238293	348418	12.102	9.629
33) Chlordane...	7.502	8.220	441826	492762	17.628	16.228
34) Chlordane...	8.046f	8.915	731630	4252640	126.555	474.314 #
35) Chlordane...	3.450	0.000	4132	0	NoCal	N.D.
36) Toxaphene...	7.502	8.466	441826	1308994	493.303	498.805
37) Toxaphene...	7.794	8.812	819454	1647741	507.421	500.677
38) Toxaphene...	8.105	8.848	1677481	2475022	498.140	488.332
39) Toxaphene...	8.346	8.915	1649569	4252640	509.102	509.308
40) Toxaphene...	8.574	9.091	1221560	2340668	509.590	502.251
41) Toxaphene...	8.640	9.470	1623402	2369795	512.991	498.883
42) Toxaphene...	3.450	0.000	4132	0	NoCal	N.D.

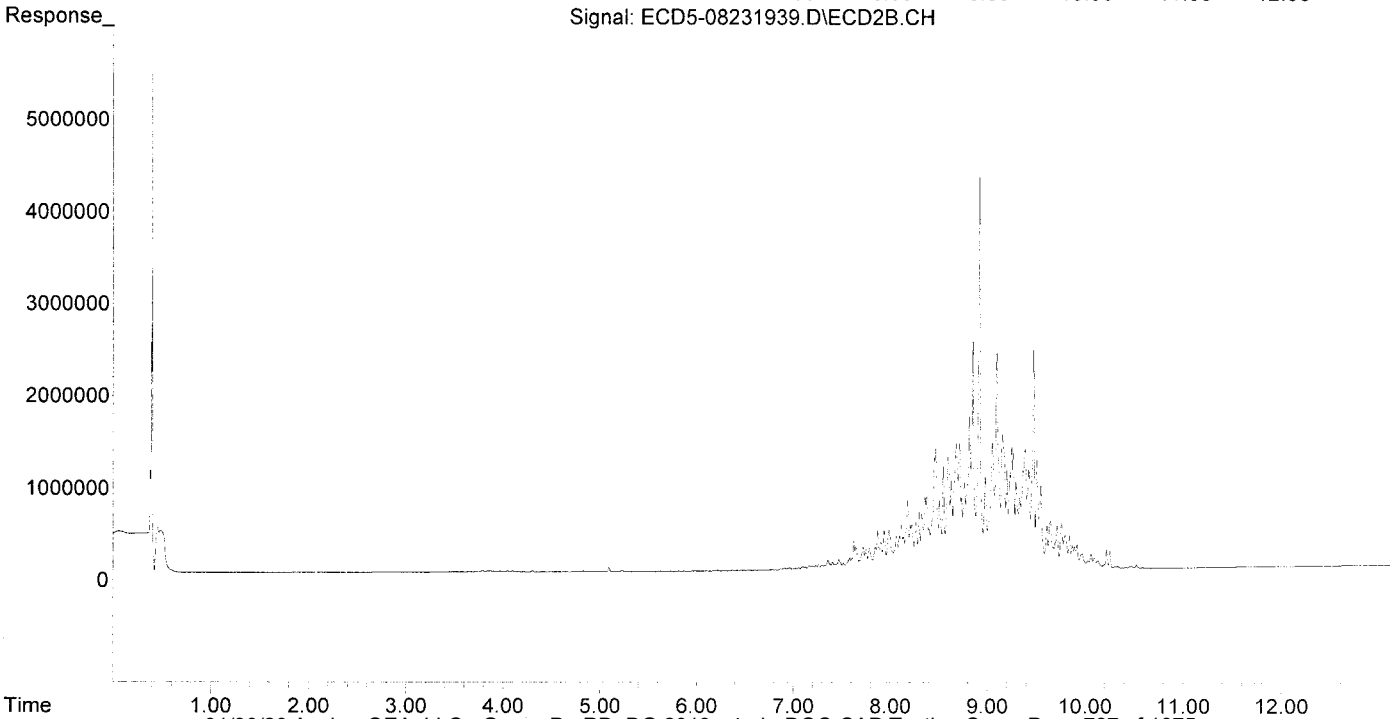
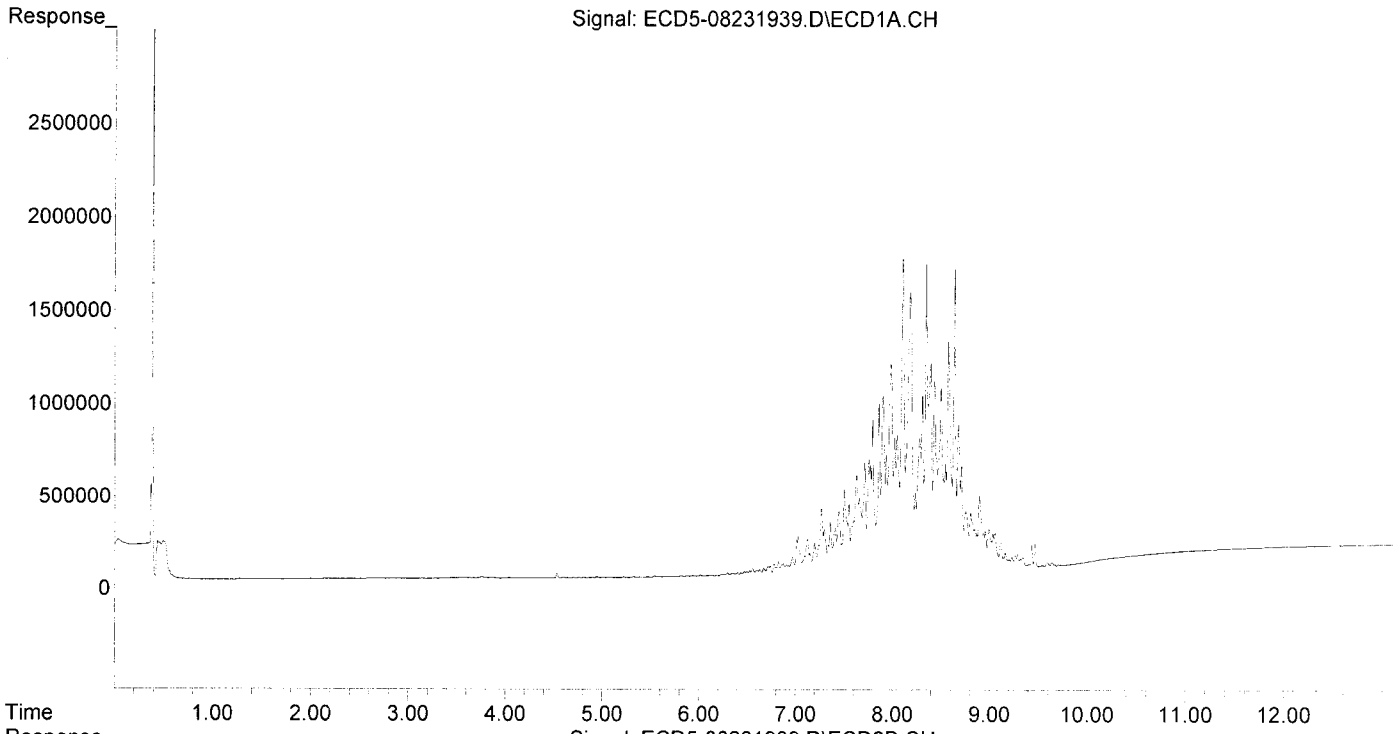
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231939.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:45  
Operator : MJB  
Sample : 9H23034-CALQ  
Misc : A19D125, TOX 500 ppb  
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:07:35 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231940.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 23:03  
 Operator : MJB  
 Sample : 9H23034-CALR  
 Misc : A19D126, TOX 1000 ppb  
 ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:07:46 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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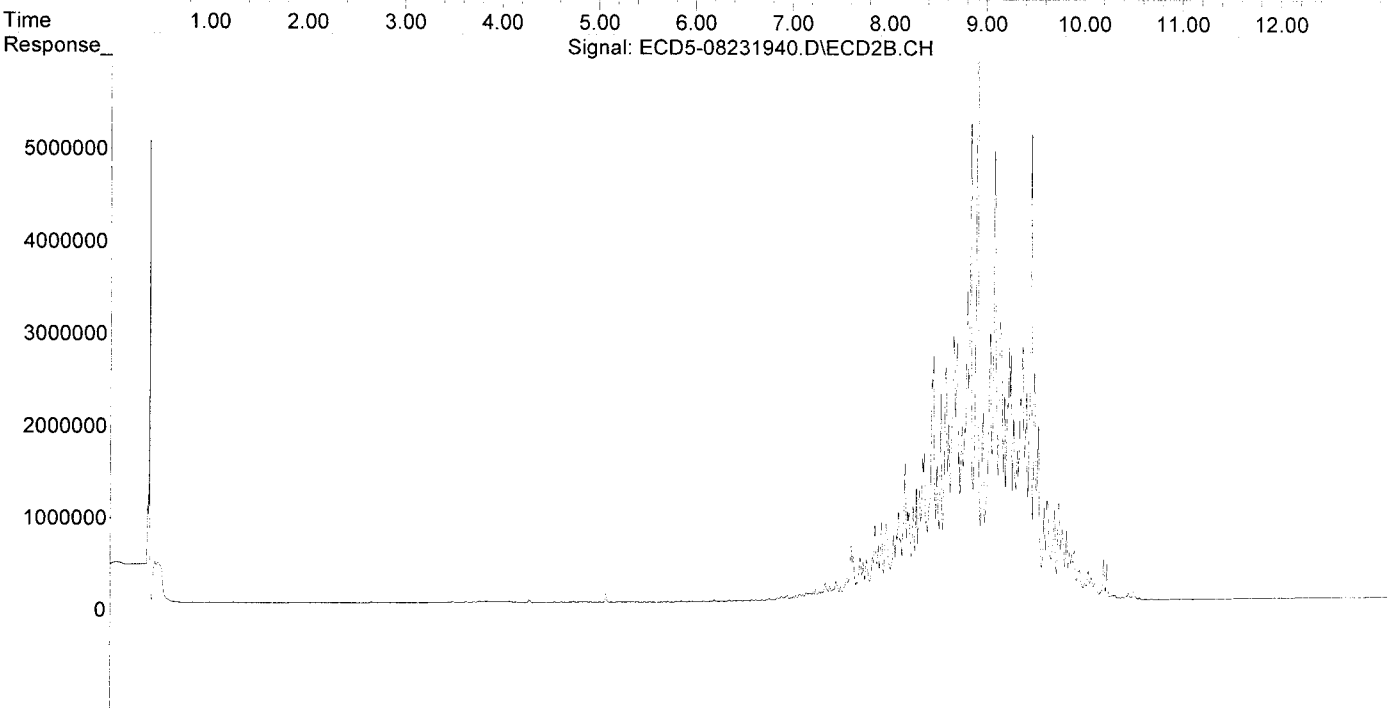
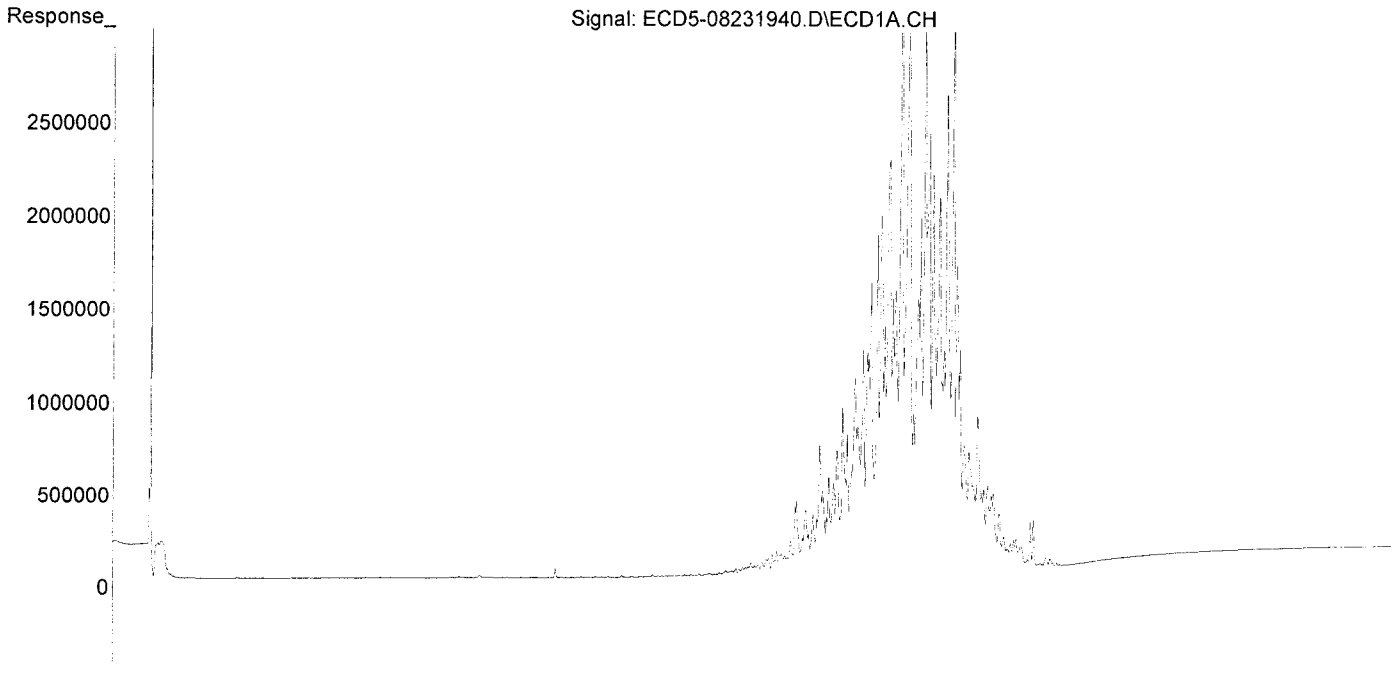
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.415f	5.982	2381	5264	0.014	0.018
22) S DCBP (S)	9.591	10.522	47060	86882	0.334	0.483 #
Target Compounds						
2) a-BHC	5.937	6.597	7133	14957	0.031	0.036
3) g-BHC	6.231	6.907	12268	49388	0.061	0.138 #
4) b-BHC	6.296	6.967	24041	58985	0.266	0.373 #
5) Heptachlor	6.632	7.293	48435	95609	0.267	0.312
6) d-BHC	6.434	7.233	28416	100471	0.144	0.285 #
7) Aldrin	6.871	7.551	108360	147580	0.549	0.448
8) Heptachlo...	7.336	7.985	294905	840940	1.601	2.795 #
9) trans-Chl...	7.445	8.111f	659823	964498	3.569	3.078
10) cis-Chlor...	7.501f	8.220	871889	947518	4.789	3.253
11) Endosulfa...	7.628	8.295	1038833	1226540	6.104	4.457
12) 4,4'-DDE	7.550f	8.358	746675	1543581	3.961	4.968
13) Dieldrin	7.793	8.506	1556013	1462579	8.105	4.809 #
14) Endrin	7.933f	8.711	1312768	2786774	8.929	12.340
15) 4,4'-DDD	8.020	8.762	1452045	1895471	9.240	7.398
16) Endosulfa...	8.105	8.848	3495877	5168269	24.343	22.412
17) 4,4'-DDT	8.183	8.977	2996314	2028436	25.061	11.540 #
18) Endrin Al...	8.391	9.091	2338006	4900430	18.826	25.221
19) Endosulfa...	8.709	9.291	1188299	2002950	7.668	8.041
20) Methoxychlor	8.543	9.470	1177404	5046645	20.101	55.668 #
21) Endrin Ke...	8.893	9.712f	829327	990858	4.973	3.851
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.745f	6.463	2404	9221	0.014	0.029 #
25) Oxychlordane	7.265	7.936	684836	845822	4.162	3.088
26) 2,4'-DDE	7.336	8.111	294905	964498	2.299	4.547 #
27) trans-Non...	7.501	8.204	871889	963521	4.550	3.194
28) 2,4'-DDD	7.712	8.506	1203385	1462579	10.544	7.744
29) 2,4'-DDT	7.898	8.711	1885482	2786774	17.190	15.626
30) cis-Nonac...	7.981	8.762	2207076	1895471	10.631	5.651 #
31) Mirex	8.640	9.712f	3406737	990858	27.174	5.325 #
32) Chlordane...	7.445	8.111	659823	964498	33.511	26.655
33) Chlordane...	7.501	8.220	871889	947518	34.786	31.205
34) Chlordane...	8.045f	8.915	1508434	8650068	260.924	964.776 #
35) Chlordane...	3.451	0.000	2687	0	NoCal	N.D.
36) Toxaphene...	7.501	8.467	871889	2654886	973.473	1011.671
37) Toxaphene...	7.793	8.813	1556013	3384036	963.512	1028.262
38) Toxaphene...	8.105	8.848	3495877	5168269	1038.126	1019.721
39) Toxaphene...	8.345	8.915	3287014	8650068	1014.463	1035.957
40) Toxaphene...	8.573	9.091	2546293	4900430	1062.220	1051.514
41) Toxaphene...	8.640	9.470	3406737	5046645	1076.520	1062.406
42) Toxaphene...	3.451	0.000	2687	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231940.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 23:03  
Operator : MJB  
Sample : 9H23034-CALR  
Misc : A19D126, TOX 1000 ppb  
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:07:46 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\REQUANT\  
 Data File : ECD5-08231941.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 23:20  
 Operator : MJB  
 Sample : 9H23034-CALS  
 Misc : A19D121, TOX 2000 ppb  
 ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 12:07:58 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:48:23 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MB  
8/26/19*

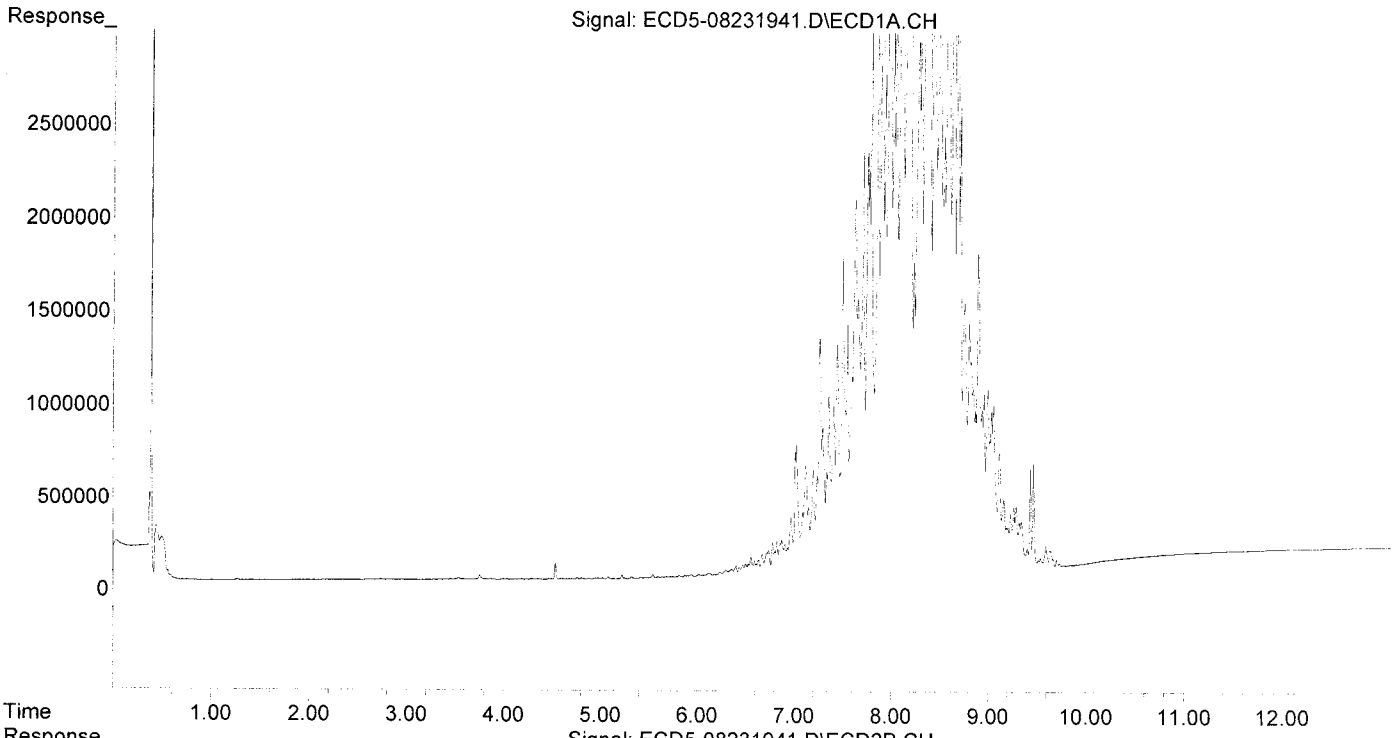
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.416f	5.979	3411	9459	0.021	0.032 #
22) S DCBP (S)	9.591	10.521	106938	194794	0.758	1.084 #
Target Compounds						
2) a-BHC	5.935	6.596	13246	39719	0.058	0.097 #
3) g-BHC	6.231	6.908	20790	85564	0.103	0.240 #
4) b-BHC	6.295	6.967	35592	107682	0.394	0.680 #
5) Heptachlor	6.633	7.293	79787	161818	0.440	0.529
6) d-BHC	6.433	7.233	46116	159995	0.234	0.454 #
7) Aldrin	6.871	7.581f	182635	424827	0.925	1.290
8) Heptachlo...	7.357f	7.984	952857	1568607	5.174	5.214
9) trans-Chl...	7.444	8.111f	1223688	1798529	6.618	5.740
10) cis-Chlor...	7.500f	8.218f	1674674	1710240	9.198	5.872
11) Endosulfa...	7.627	8.294	1999949	2341198	11.752	8.508
12) 4,4'-DDE	7.549f	8.357	1335034	2938735	7.081	9.459
13) Dieldrin	7.792	8.505	2958997	2895788	15.413	9.521
14) Endrin	7.981f	8.711	4441487	5651216	30.209	25.025
15) 4,4'-DDD	8.020	8.761	2883315	3832878	18.349	14.960
16) Endosulfa...	8.104	8.848	6831460	10545708	47.569	45.730
17) 4,4'-DDT	8.183	8.977	5897786	4051156	49.329	22.612 #
18) Endrin Al...	8.391	9.091	4718611	9435236	38.506	48.051
19) Endosulfa...	8.708	9.291	2483005	4046643	16.022	16.246
20) Methoxychlor	8.542	9.471	2322878	10090951	39.657	102.111 #
21) Endrin Ke...	8.893	9.712f	1725359	2080010	10.346	8.083
23) Hexachlor...	0.000	0.000	0	0	N.D.	N.D.
24) Hexachlor...	5.744f	6.462	3614	25550	0.021	0.081 #
25) Oxychlordane	7.264	7.935	1262060	1485955	7.670	5.425
26) 2,4'-DDE	7.357f	8.111	952857	1798529	7.429	8.478
27) trans-Non...	7.500	8.204	1674674	1791431	9.032	5.939
28) 2,4'-DDD	7.712	8.505	2255144	2895788	19.760	15.333
29) 2,4'-DDT	7.898	8.711	3633258	5651216	33.124	31.688
30) cis-Nonac...	7.981	8.761	4441487	3832878	21.393	11.426 #
31) Mirex	8.640	9.712f	6510950	2080010	51.935	11.178 #
32) Chlordane...	7.444	8.111	1223688	1798529	62.149	49.704
33) Chlordane...	7.500	8.218	1674674	1710240	66.815	56.324
34) Chlordane...	8.044f	8.914	2935856	17190037	507.835	1917.273 #
35) Chlordane...	3.452	0.000	4166	0	NoCal	N.D.
36) Toxaphene...	7.500	8.466	1674674	5030917	1869.791	1917.082
37) Toxaphene...	7.792	8.813	2958997	6610397	1832.266	2008.613
38) Toxaphene...	8.104	8.848	6831460	10545708	2028.651	2080.712
39) Toxaphene...	8.345	8.914	6407070	17190037	1977.398	2058.728
40) Toxaphene...	8.572	9.091	5074570	9435236	2116.925	2024.573
41) Toxaphene...	8.640	9.471	6510950	10090951	2057.443	2124.320
42) Toxaphene...	3.452	0.000	4166	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : R:\data\2019-08\9H23034\REQUANT\  
Data File : ECD5-08231941.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 23:20  
Operator : MJB  
Sample : 9H23034-CALS  
Misc : A19D121, TOX 2000 ppb  
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 12:07:58 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:48:23 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Sequence Name: C:\msdchem\4\sequence\9H23034.s

Comment: Pesticides

Operator: MJB

Data Path: C:\MSDCHEM\4\DATA\2019-08\9H23034\

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	100 CONDITIONING RUN
	Datafile	ECD5-08231901
	Method	ECD5_AQUPEST_160111
2)	Sample	100 CONDITIONING RUN
	Datafile	ECD5-08231902
	Method	ECD5_AQUPEST_160111
3)	Sample	1 Hexane
	Datafile	ECD5-08231903
	Method	ECD5_AQUPEST_160111
4)	Sample	2 9H23034-BKD1
	Datafile	ECD5-08231904
	Method	ECD5_AQUPEST_160111
5)	Sample	1 Hexane
	Datafile	ECD5-08231905
	Method	ECD5_AQUPEST_160111
6)	Sample	2 9H23034-BKD2
	Datafile	ECD5-08231906
	Method	ECD5_AQUPEST_160111
7)	Sample	3 9H23034-ICB1
	Datafile	ECD5-08231907
	Method	ECD5_AQUPEST_160111
8)	Sample	4 9H23034-CAL1
	Datafile	ECD5-08231908
	Method	ECD5_AQUPEST_160111
9)	Sample	5 9H23034-CAL2
	Datafile	ECD5-08231909
	Method	ECD5_AQUPEST_160111
10)	Sample	6 9H23034-CAL3
	Datafile	ECD5-08231910
	Method	ECD5_AQUPEST_160111
11)	Sample	7 9H23034-CAL4
	Datafile	ECD5-08231911
	Method	ECD5_AQUPEST_160111
12)	Sample	8 9H23034-CAL5
	Datafile	ECD5-08231912
	Method	ECD5_AQUPEST_160111
13)	Sample	9 9H23034-CAL6
	Datafile	ECD5-08231913
	Method	ECD5_AQUPEST_160111
14)	Sample	10 9H23034-CAL7
	Datafile	ECD5-08231914
	Method	ECD5_AQUPEST_160111
15)	Sample	11 9H23034-CAL8
	Datafile	ECD5-08231915
	Method	ECD5_AQUPEST_160111
16)	Sample	1 9H23034-IBL1
	Datafile	ECD5-08231916
	Method	ECD5_AQUPEST_160111
17)	Sample	12 9H23034-ICV1
	Datafile	ECD5-08231917
	Method	ECD5_AQUPEST_160111
18)	Sample	13 9H23034-CAL9
	Datafile	ECD5-08231918
	Method	ECD5_AQUPEST_160111
19)	Sample	14 9H23034-CALA
	Datafile	ECD5-08231919
	Method	ECD5_AQUPEST_160111
20)	Sample	15 9H23034-CALB

MJB 8/26/19

	Datafile		ECD5-08231920
	Method		ECD5_AQUPEST_160111
21)	Sample	16	9H23034-CALC
	Datafile		ECD5-08231921
	Method		ECD5_AQUPEST_160111
22)	Sample	17	9H23034-CALD
	Datafile		ECD5-08231922
	Method		ECD5_AQUPEST_160111
23)	Sample	18	9H23034-CALE
	Datafile		ECD5-08231923
	Method		ECD5_AQUPEST_160111
24)	Sample	19	9H23034-CALF
	Datafile		ECD5-08231924
	Method		ECD5_AQUPEST_160111
25)	Sample	20	9H23034-CALG
	Datafile		ECD5-08231925
	Method		ECD5_AQUPEST_160111
26)	Sample	1	9H23034-IBL2
	Datafile		ECD5-08231926
	Method		ECD5_AQUPEST_160111
27)	Sample	21	9H23034-ICV2
	Datafile		ECD5-08231927
	Method		ECD5_AQUPEST_160111
28)	Sample	22	9H23034-CALH
	Datafile		ECD5-08231928
	Method		ECD5_AQUPEST_160111
29)	Sample	23	9H23034-CALI
	Datafile		ECD5-08231929
	Method		ECD5_AQUPEST_160111
30)	Sample	24	9H23034-CALJ
	Datafile		ECD5-08231930
	Method		ECD5_AQUPEST_160111
31)	Sample	25	9H23034-CALK
	Datafile		ECD5-08231931
	Method		ECD5_AQUPEST_160111
32)	Sample	26	9H23034-CALL
	Datafile		ECD5-08231932
	Method		ECD5_AQUPEST_160111
33)	Sample	27	9H23034-CALM
	Datafile		ECD5-08231933
	Method		ECD5_AQUPEST_160111
34)	Sample	1	9H23034-IBL3
	Datafile		ECD5-08231934
	Method		ECD5_AQUPEST_160111
35)	Sample	28	9H23034-ICV3
	Datafile		ECD5-08231935
	Method		ECD5_AQUPEST_160111
36)	Sample	29	9H23034-CALN
	Datafile		ECD5-08231936
	Method		ECD5_AQUPEST_160111
37)	Sample	30	9H23034-CALO
	Datafile		ECD5-08231937
	Method		ECD5_AQUPEST_160111
38)	Sample	31	9H23034-CALP
	Datafile		ECD5-08231938
	Method		ECD5_AQUPEST_160111
39)	Sample	32	9H23034-CALQ
	Datafile		ECD5-08231939
	Method		ECD5_AQUPEST_160111
40)	Sample	33	9H23034-CALR
	Datafile		ECD5-08231940
	Method		ECD5_AQUPEST_160111
41)	Sample	34	9H23034-CALS
	Datafile		ECD5-08231941
	Method		ECD5_AQUPEST_160111
42)	Sample	1	9H23034-IBL4
	Datafile		ECD5-08231942
	Method		ECD5_AQUPEST_160111
43)	Sample	35	9H23034-ICV4
	Datafile		ECD5-08231943
	Method		ECD5_AQUPEST_160111

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\  
 Data File : ECD5-08231904.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 12:24  
 Operator : MJB  
 Sample : 9H23034-BKD1  
 Misc : A19G138  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 23 12:40:24 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.587	1120444	NoCal	ng/mL
2) Endrin	7.960	63253664	NoCal	ng/mL
3) 4,4'-DDD	8.007	6621952	NoCal	ng/mL
4) 4,4'-DDT	8.205	107029729	NoCal	ng/mL
5) Endrin Aldehyde	8.407	4202397	NoCal	ng/mL
6) Endrin Ketone	8.901	6297738	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.347	1706439	NoCal	ng/mL
9) Endrin [2C]	8.719	95742281	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.761	11347306	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.102	6529476	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.988	167003448	NoCal	ng/mL
13) Endrin Ketone [2C]	9.690	10363842	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

(m)=manual int.

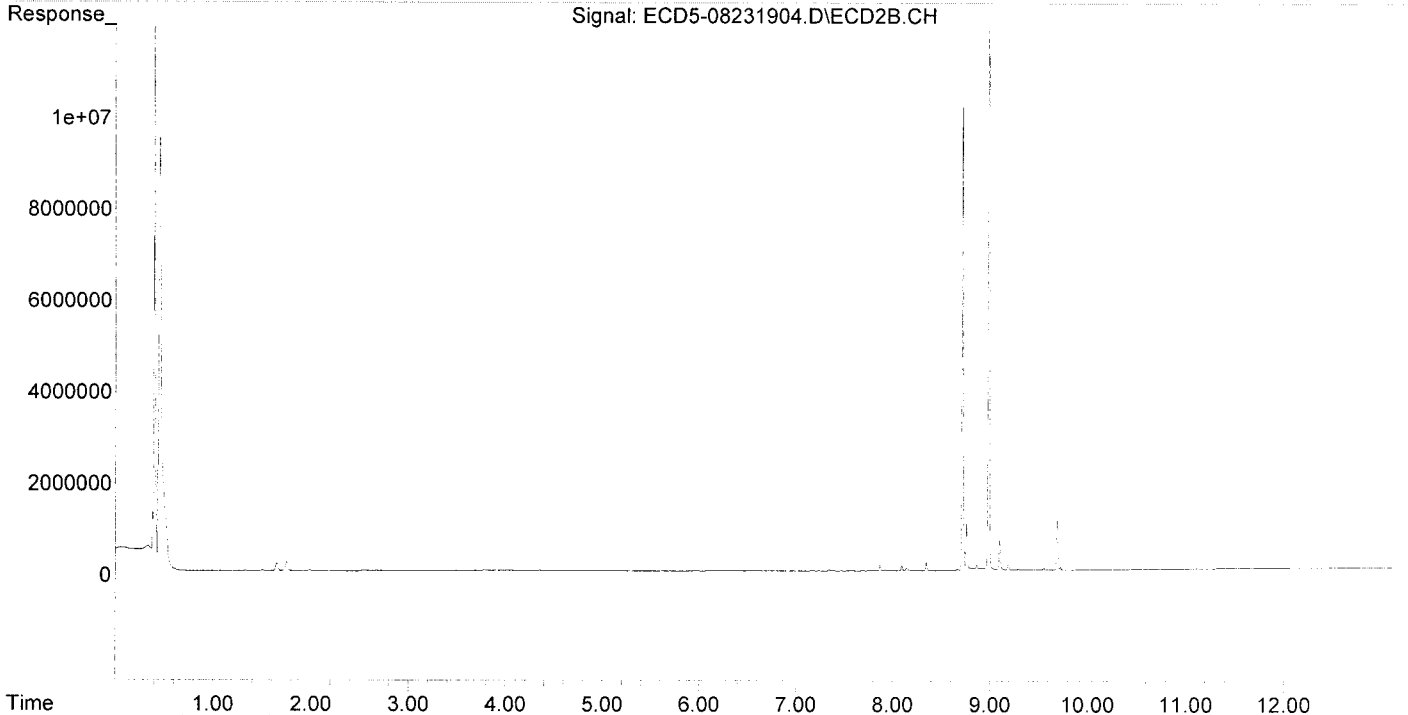
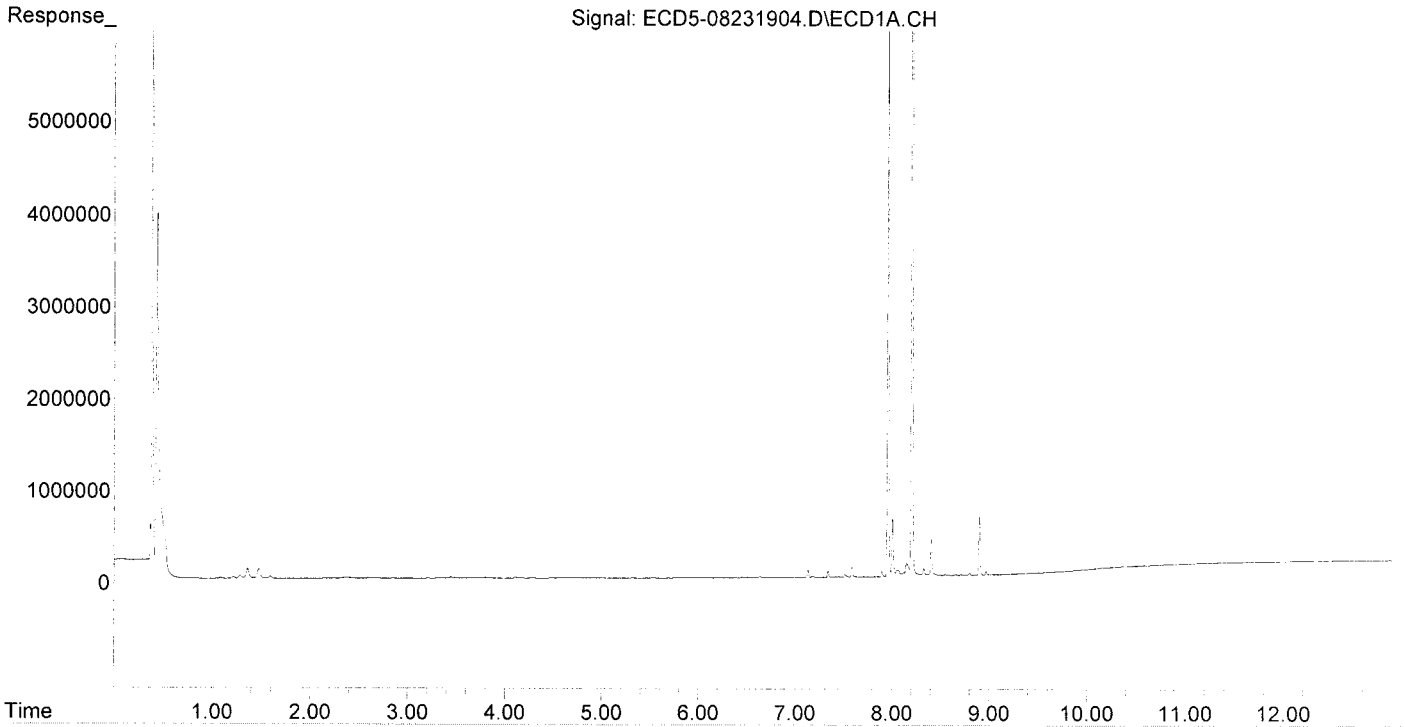
*Break down passing, but not  
 the High maintenance performed  
 MJB 8/26/19*



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\  
Data File : ECD5-08231904.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 12:24  
Operator : MJB  
Sample : 9H23034-BKD1  
Misc : A19G138  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 23 12:40:24 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Pesticide BKD

**Pesticide Breakdown Check (Validated 8/8/2013)**

Sequence: 9H23034 BKD2  
Data File: ECD5-08231906.D

First Column Area Counts		Percent Breakdown	
DDE	734891		
DDD	4530463		
DDT	125149199	<b>4.04</b>	<b>PASS</b>
Endrin	70846235	<b>8.91</b>	<b>PASS</b>
Endrin Aldehyde	2399187		
Endrin Ketone	4532548		

Second Column Area Counts		Percent Breakdown	
DDE	977816		
DDD	7819328		
DDT	188765825	<b>4.45</b>	<b>PASS</b>
Endrin	109289125	<b>8.73</b>	<b>PASS</b>
Endrin Aldehyde	3703608		
Endrin Ketone	6751447		

Breakdown must be less than 15% to accept sample data.

*MB 8/26/13*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\  
 Data File : ECD5-08231906.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 13:16  
 Operator : MJB  
 Sample : 9H23034-BKD2  
 Misc : A19G138  
 ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 23 13:30:06 2019  
 Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823.M  
 Quant Title : Pesticides  
 QLast Update : Thu Aug 21 11:53:22 2014  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.586	734891	NoCal	ng/mL
2) Endrin	7.960	70846235	NoCal	ng/mL
3) 4,4'-DDD	8.007	4530463	NoCal	ng/mL
4) 4,4'-DDT	8.205	125149199	NoCal	ng/mL
5) Endrin Aldehyde	8.407	2399187	NoCal	ng/mL
6) Endrin Ketone	8.902	4532548	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.345	977816	NoCal	ng/mL
9) Endrin [2C]	8.718	109289125	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.760	7819328	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.101	3703608	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.988	188765825	NoCal	ng/mL
13) Endrin Ketone [2C]	9.690	6751447	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

(m)=manual int.

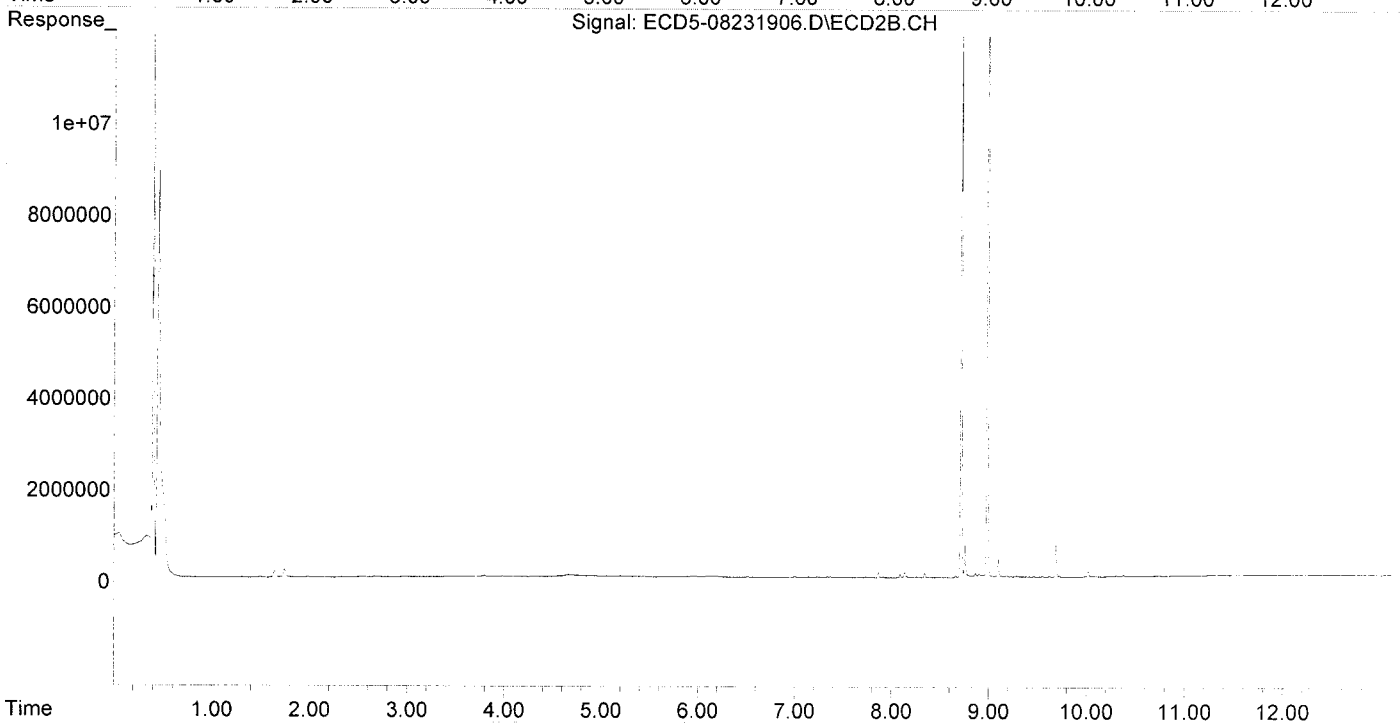
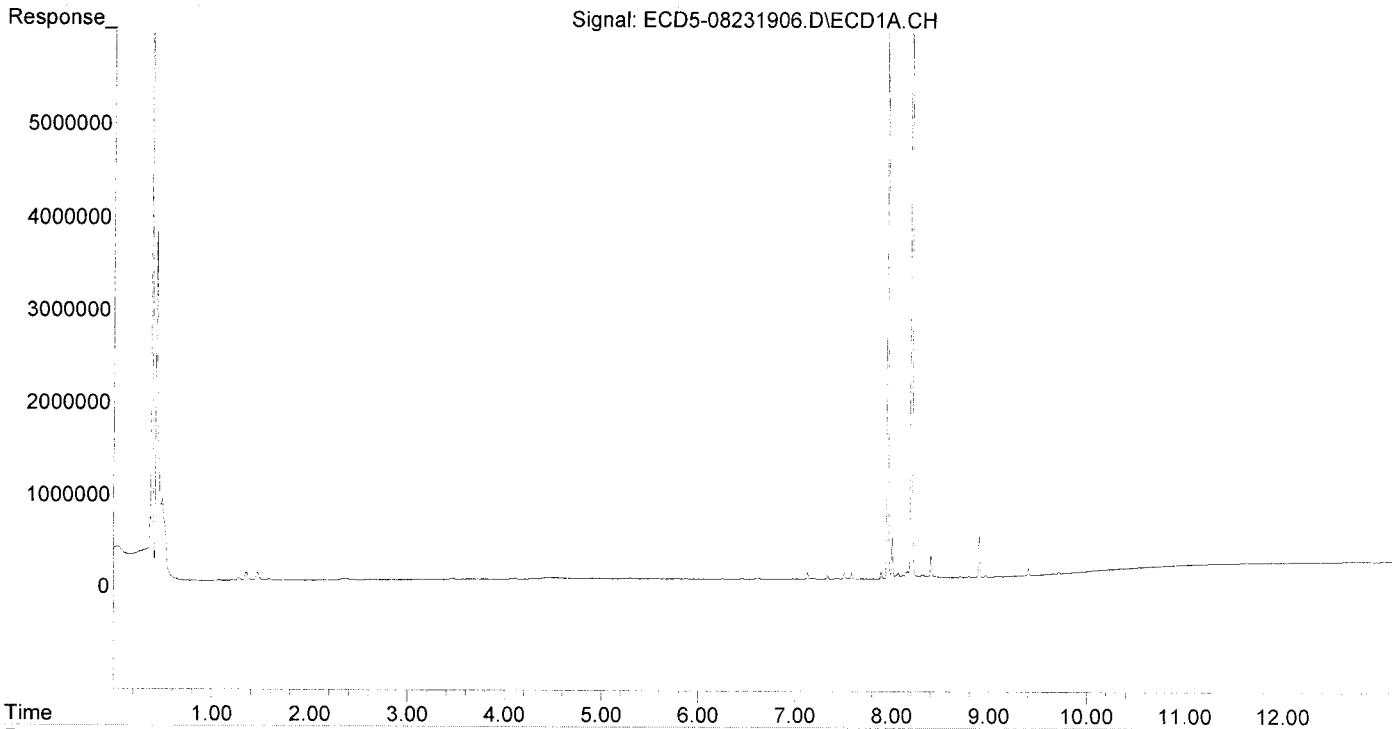
*Swabbed in 1st w/  
Hexane.*

*MJP 8/26/19*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\4\data\2019-08\9H23034\  
Data File : ECD5-08231906.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:16  
Operator : MJB  
Sample : 9H23034-BKD2  
Misc : A19G138  
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 23 13:30:06 2019  
Quant Method : C:\msdchem\4\methods\PestBreakdownCHK\_190823.M  
Quant Title : Pesticides  
QLast Update : Thu Aug 21 11:53:22 2014  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231908.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 13:51  
 Operator : MJB  
 Sample : 9H23034-CAL1  
 Misc : A19E245, AB 1 ppb  
 ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:15:45 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*WR  
8/26/19*

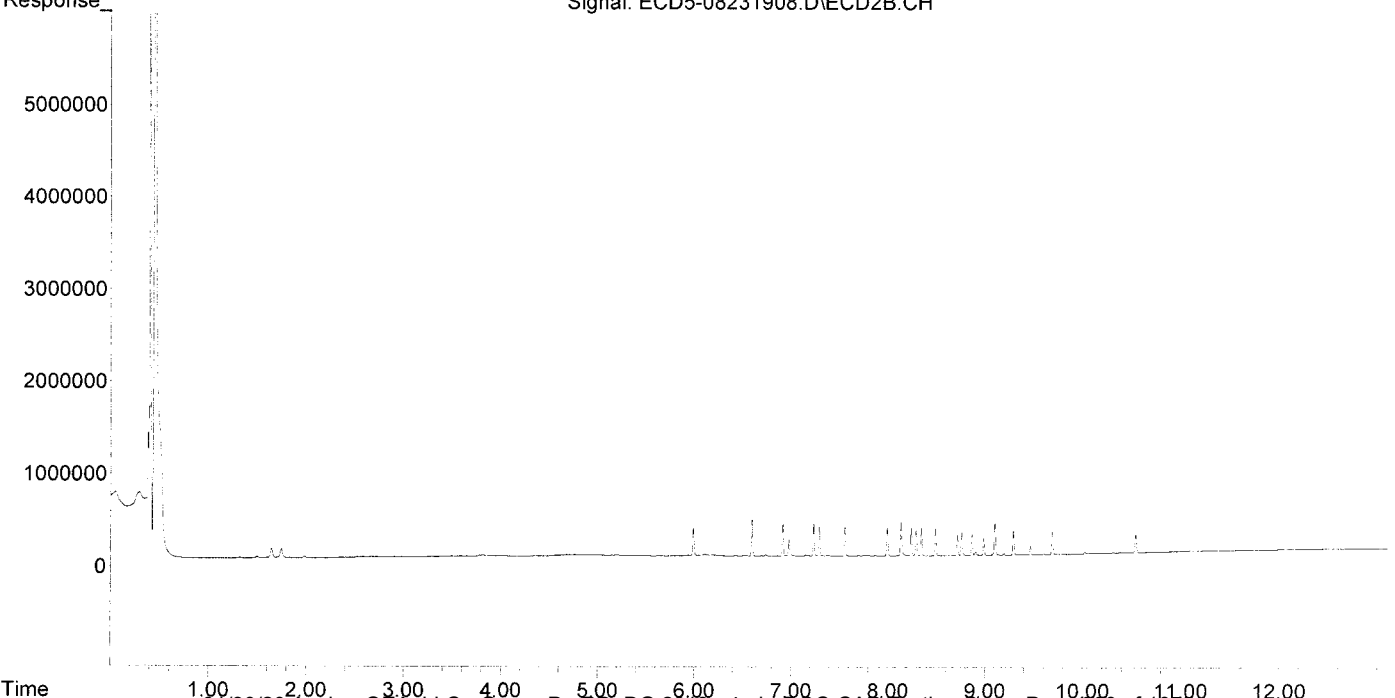
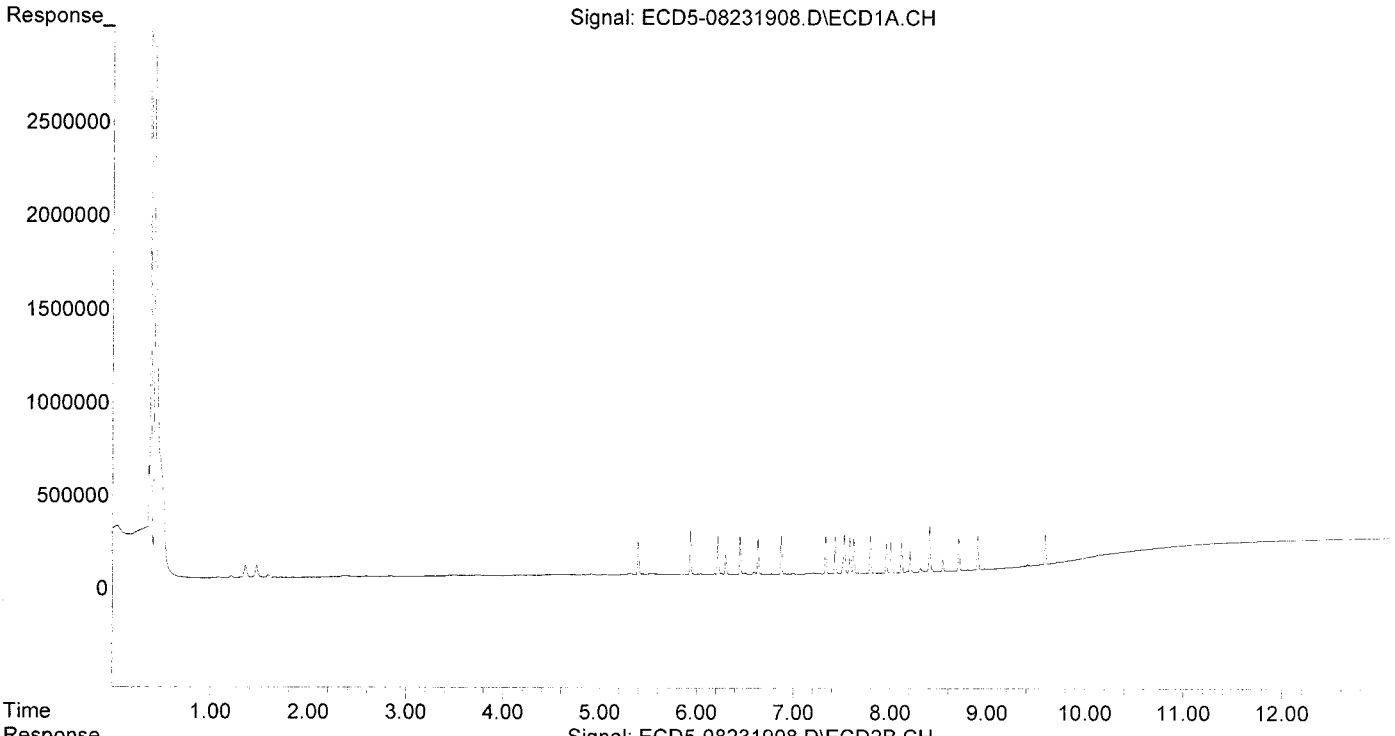
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.397	5.991	176748	300053	1.633	1.607
22) S DCBP (S)	9.593	10.541	163865	191572	1.202	1.206
Target Compounds						
2) a-BHC	5.937	6.597	231994	393119	1.665	1.296
3) g-BHC	6.221	6.915	207427	352286	1.380	1.170
4) b-BHC	6.300	6.980	104326	176262	1.760	1.450
5) Heptachlor	6.635	7.292	192066	309811	1.183	1.054
6) d-BHC	6.450	7.234	199840	349123	1.893	1.474
7) Aldrin	6.875	7.557	205523	317466	1.221	1.096
8) Heptachlo...	7.335	7.994	200503	310098	1.276	1.175
9) trans-Chl...	7.433	8.135	197202	364142	1.276	1.384
10) cis-Chlor...	7.528	8.241	209780	299422	1.367	1.179
11) Endosulfa...	7.625	8.291	185217	278874	1.245	1.173
12) 4,4'-DDE	7.586	8.346	193435	298463	1.647	1.374
13) Dieldrin	7.796	8.491	197721	296684	1.194	1.095
14) Endrin	7.961	8.718	156412	222882	1.190	1.096
15) 4,4'-DDD	8.007	8.760	164956	251549	1.683	1.281
16) Endosulfa...	8.118	8.865	158139	232156	1.378	1.183
17) 4,4'-DDT	8.205	8.986	113897	179700	1.686	1.607
18) Endrin Al...	8.407	9.101	241285	348624	2.337	2.034
19) Endosulfa...	8.708	9.292	176097	265797	1.418	1.337
20) Methoxychlor	8.543	9.466	59659	95155	1.698	1.611
21) Endrin Ke...	8.901	9.690	177552	255763	1.293	1.268
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231908.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 13:51  
Operator : MJB  
Sample : 9H23034-CAL1  
Misc : A19E245, AB 1 ppb  
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:15:45 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231909.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 14:08  
 Operator : MJB  
 Sample : 9H23034-CAL2  
 Misc : A19E246, AB 2 ppb  
 ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:16:21 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	349972	600766	3.233	3.230
22) S DCBP (S)	9.593	10.542	309904	390006	2.547	2.456
Target Compounds						
2) a-BHC	5.936	6.597	458365	784586	3.177	2.540
3) g-BHC	6.220	6.915	406027	690922	2.702	2.295
4) b-BHC	6.300	6.980	194168	335260	3.275	2.757
5) Heptachlor	6.635	7.291	369615	586765	2.276	1.995
6) d-BHC	6.450	7.233	386980	669122	3.575	2.783
7) Aldrin	6.875	7.556	399550	635458	2.375	2.194
8) Heptachlo...	7.335	7.993	392052	606240	2.495	2.296
9) trans-Chl...	7.432	8.135	382271	644454	2.473	2.449
10) cis-Chlor...	7.527	8.241	389999	579667	2.541	2.282
11) Endosulfa...	7.625	8.291	357368	540442	2.402	2.273
12) 4,4'-DDE	7.586	8.345	388618	598066	3.268	2.709
13) Dieldrin	7.796	8.491	395728	583812	2.390	2.154
14) Endrin	7.960	8.718	298515	424889	2.271	2.149
15) 4,4'-DDD	8.006	8.760	314622	488120	3.236	2.486
16) Endosulfa...	8.118	8.864	299106	462256	2.607	2.355
17) 4,4'-DDT	8.204	8.986	218190	341782	3.052	2.875
18) Endrin Al...	8.407	9.101	328182	477694	3.179	2.786
19) Endosulfa...	8.707	9.291	322163	498767	2.595	2.558
20) Methoxychlor	8.542	9.465	111466	178074	3.136	2.980
21) Endrin Ke...	8.901	9.689	331269	493110	2.413	2.461
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

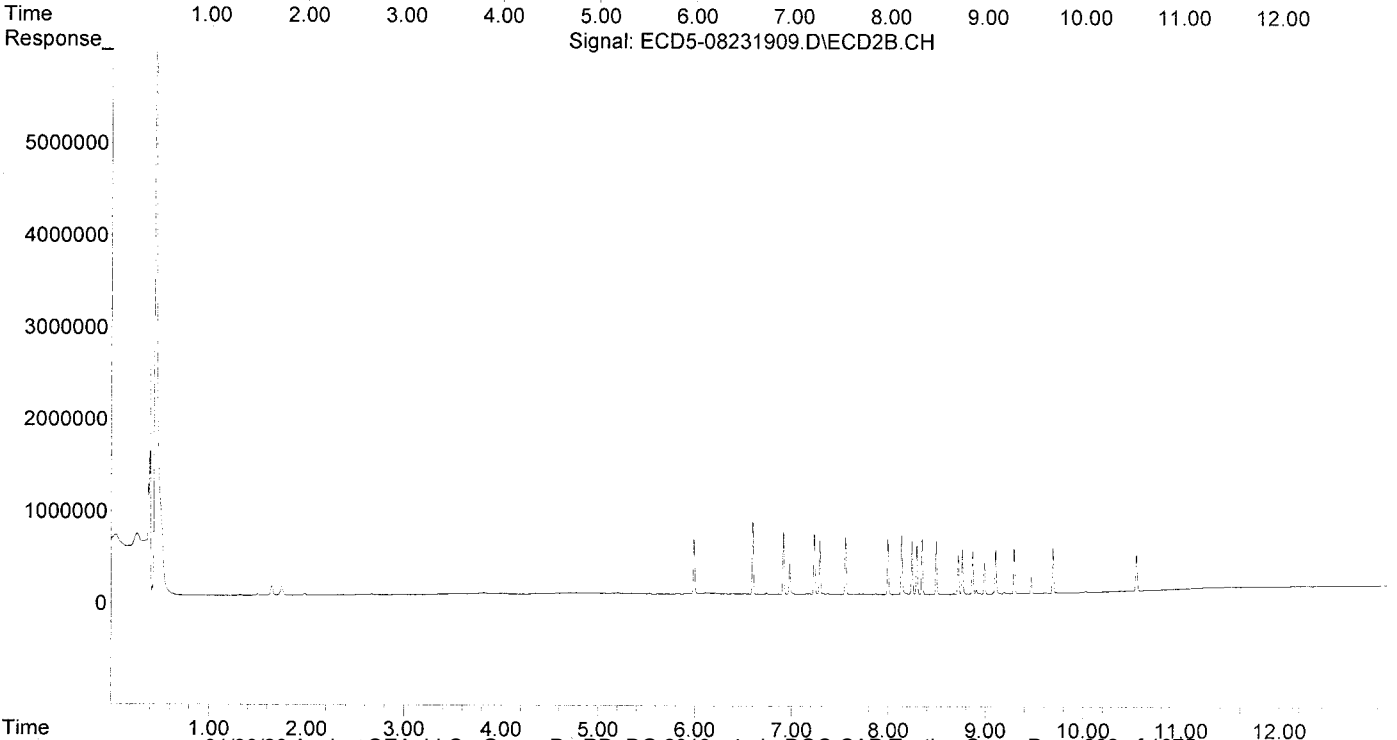
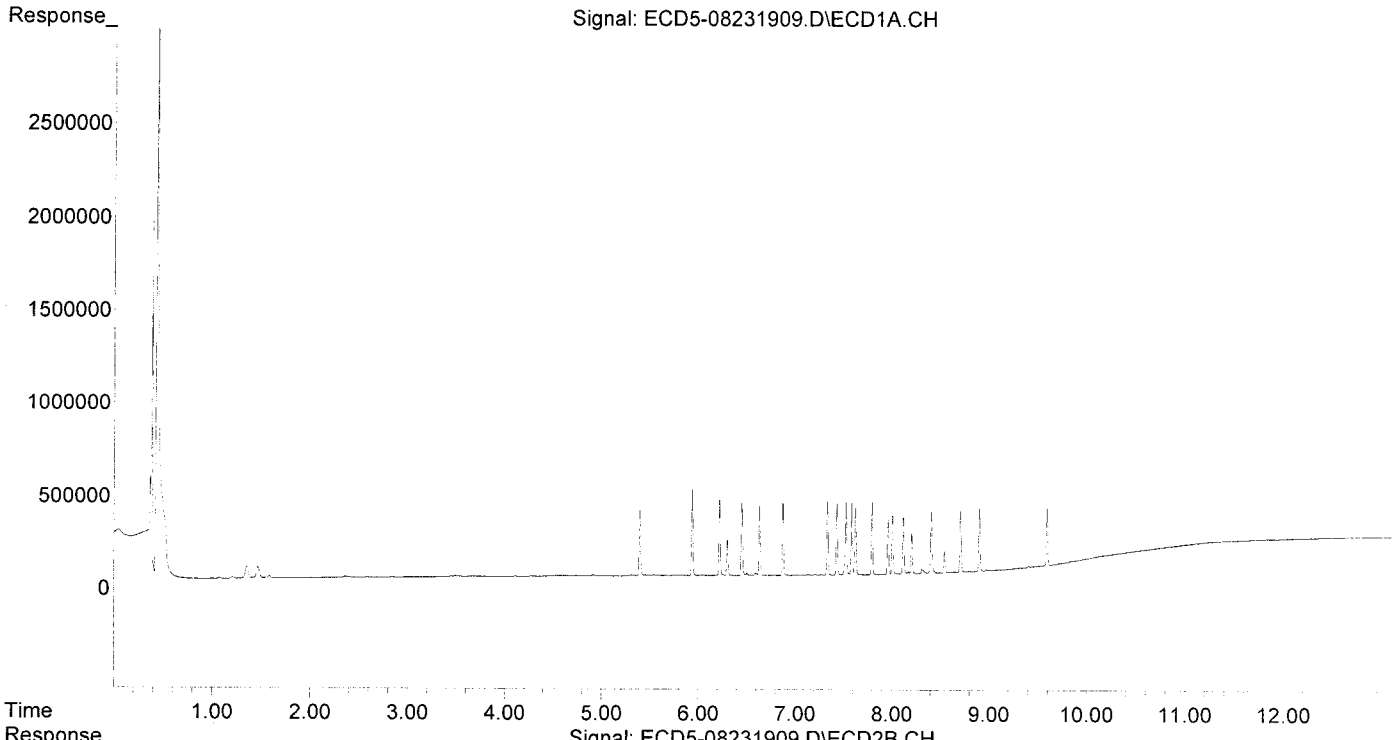
MJB  
8/26/19

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231909.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 14:08  
Operator : MJB  
Sample : 9H23034-CAL2  
Misc : A19E246, AB 2 ppb  
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:16:21 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231910.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 14:25  
 Operator : MJB  
 Sample : 9H23034-CAL3  
 Misc : A19E247, AB 5 ppb  
 ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:16:57 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

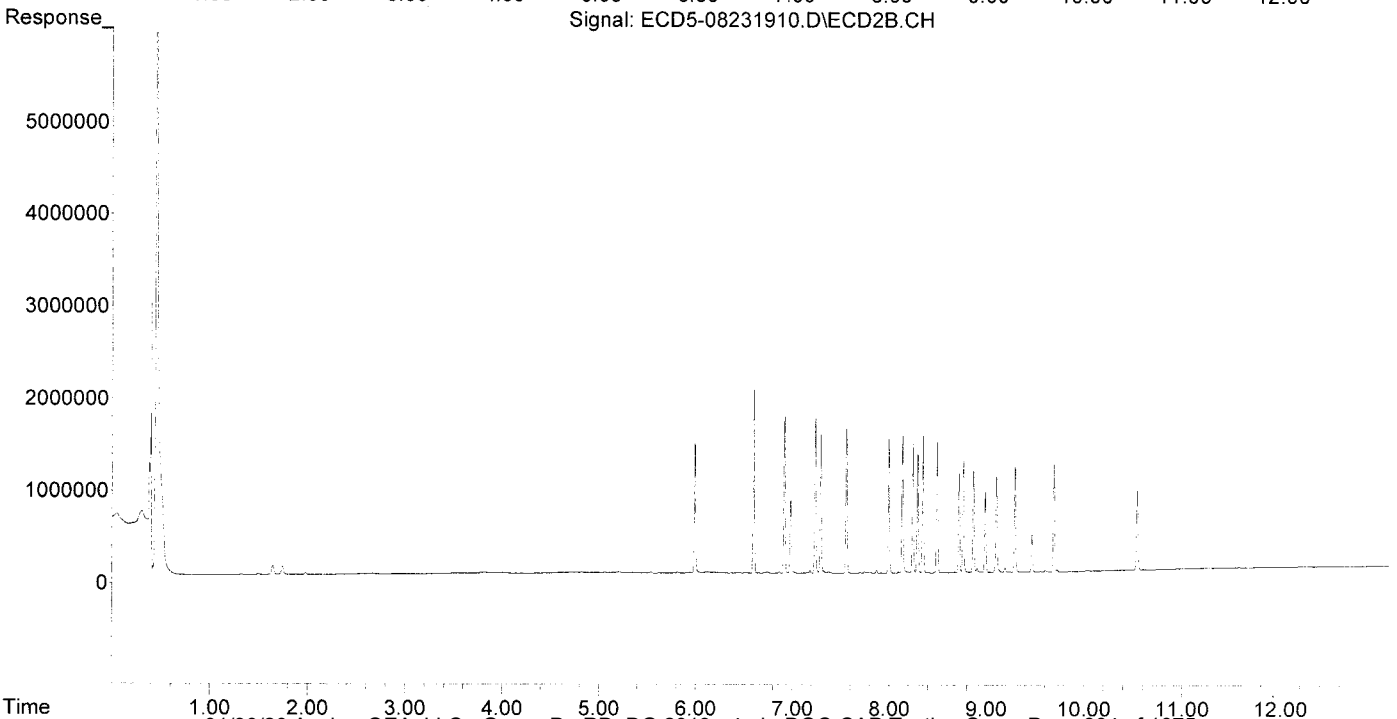
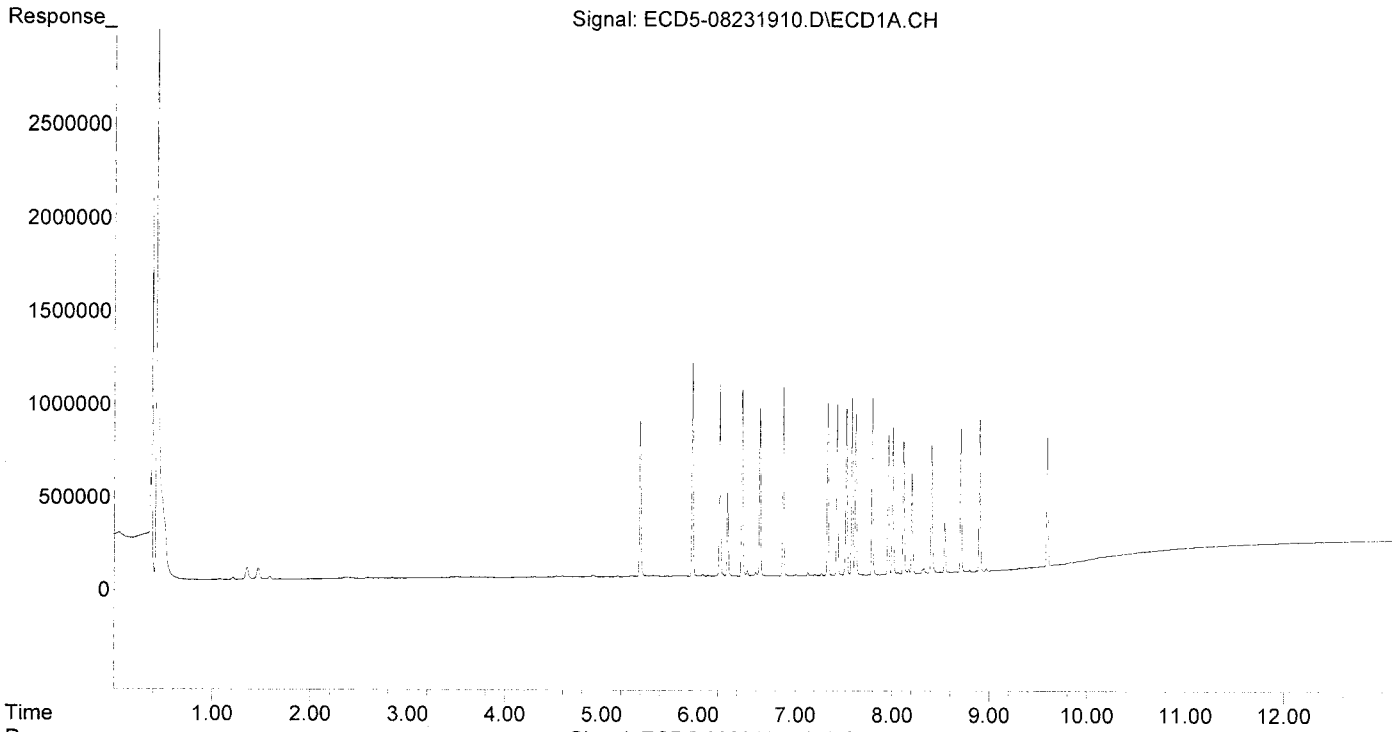
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	834206	1437876	7.707	7.700
22) S DCBP (S)	9.594	10.542	701050	870921	6.146	5.485
Target Compounds						
2) a-BHC	5.937	6.597	1147932	1985438	7.742	6.328
3) g-BHC	6.220	6.915	1020724	1742677	6.792	5.790
4) b-BHC	6.300	6.980	456954	788630	7.708	6.486
5) Heptachlor	6.635	7.291	899091	1508218	5.537	5.129
6) d-BHC	6.449	7.233	1004012	1717450	9.061	7.030
7) Aldrin	6.875	7.556	1012733	1600995	6.019	5.528
8) Heptachlo...	7.335	7.994	923620	1455941	5.877	5.514
9) trans-Chl...	7.432	8.134	926577	1502119	5.993	5.707
10) cis-Chlor...	7.528	8.241	908795	1434855	5.922	5.649
11) Endosulfa...	7.624	8.290	861509	1327191	5.790	5.583
12) 4,4'-DDE	7.586	8.345	953351	1487999	7.901	6.642
13) Dieldrin	7.796	8.491	972009	1462538	5.870	5.397
14) Endrin	7.960	8.718	738953	1092877	5.622	5.608
15) 4,4'-DDD	8.007	8.759	790498	1208642	8.130	6.156
16) Endosulfa...	8.118	8.865	709544	1096359	6.185	5.586
17) 4,4'-DDT	8.205	8.986	553009	873653	7.371	6.957
18) Endrin Al...	8.407	9.101	683393	1045869	6.620	6.101
19) Endosulfa...	8.708	9.291	768798	1175908	6.192	6.083
20) Methoxychlor	8.542	9.466	270388	413802	7.493	6.808
21) Endrin Ke...	8.901	9.689	811384	1205004	5.910	6.014
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231910.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 14:25  
Operator : MJB  
Sample : 9H23034-CAL3  
Misc : A19E247, AB 5 ppb  
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:16:57 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231911.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 14:42  
 Operator : MJB  
 Sample : 9H23034-CAL4  
 Misc : A19E249, AB 10 ppb  
 ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:19:05 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*8/26/19*

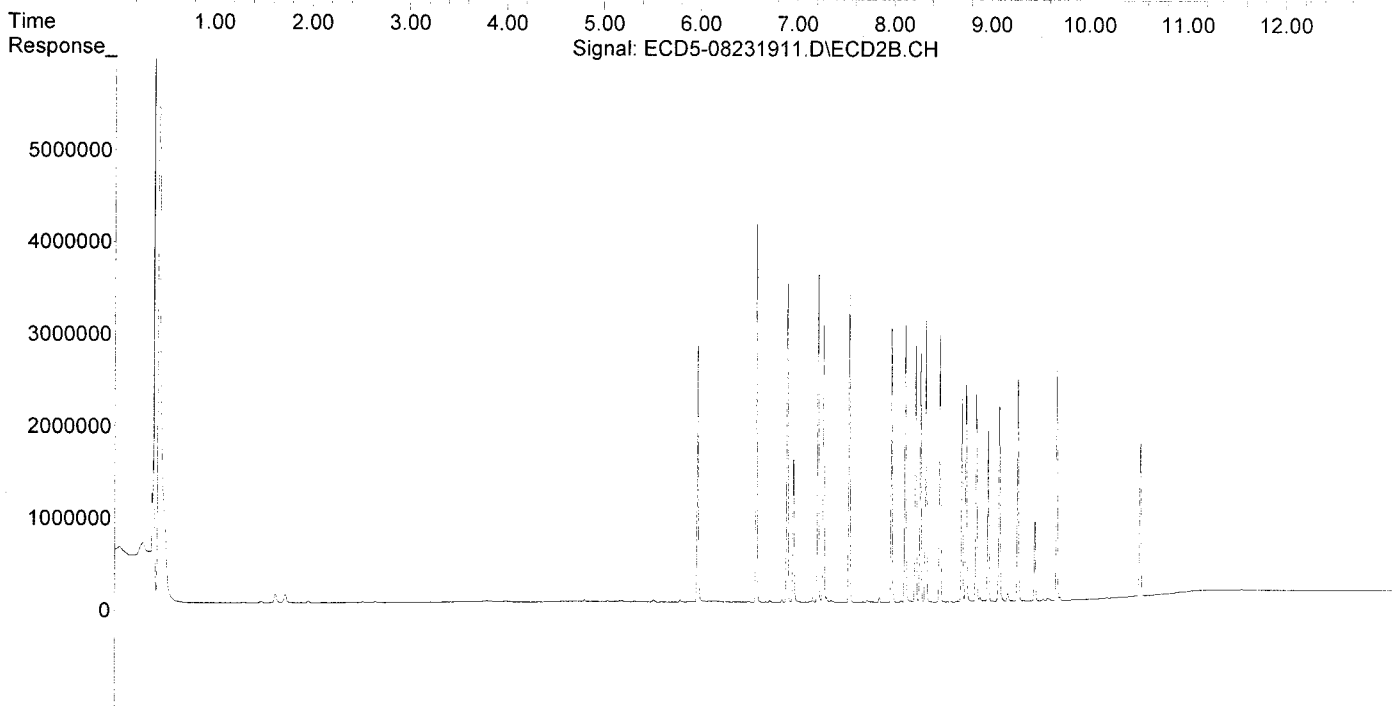
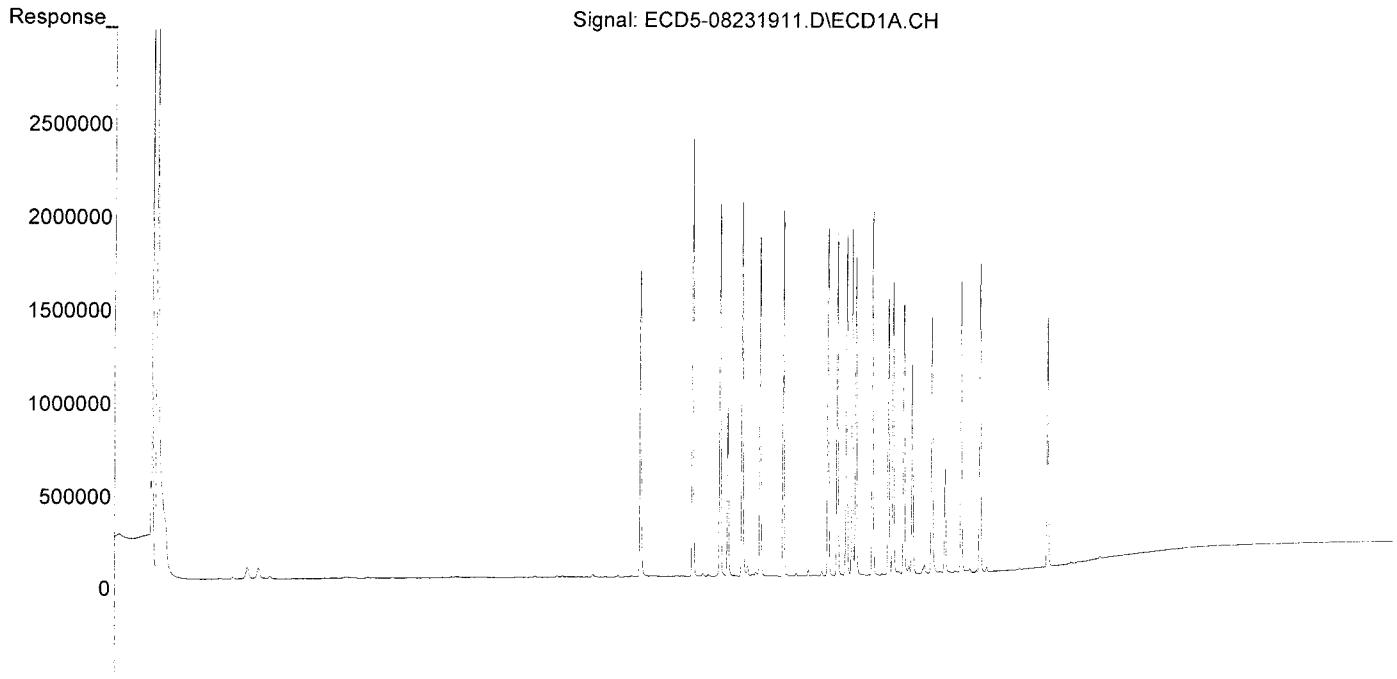
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.396	5.990	1644447	2865854	15.193	15.177
22) S DCBP (S)	9.593	10.541	1335468	1678728	11.976	10.572
Target Compounds						
2) a-BHC	5.936	6.597	2347065	4095890	15.530	12.883
3) g-BHC	6.220	6.915	2034859	3476733	13.541	11.551
4) b-BHC	6.299	6.980	910875	1580847	15.365	13.002
5) Heptachlor	6.634	7.291	1819621	3005915	11.206	10.223
6) d-BHC	6.449	7.234	2006493	3613517	17.784	14.564
7) Aldrin	6.875	7.556	2010802	3341093	11.950	11.536
8) Heptachlo...	7.335	7.994	1865428	2959301	11.869	11.208
9) trans-Chl...	7.431	8.134	1847996	3002782	11.953	11.409
10) cis-Chlor...	7.527	8.241	1843346	2859573	12.012	11.257
11) Endosulfa...	7.623	8.291	1709332	2724272	11.438	11.460
12) 4,4'-DDE	7.585	8.346	1890931	3049792	15.482	13.444
13) Dieldrin	7.795	8.491	1954890	2898866	11.805	10.697
14) Endrin	7.960	8.718	1475508	2244483	11.225	11.476
15) 4,4'-DDD	8.006	8.760	1565974	2425496	15.969	12.353
16) Endosulfa...	8.117	8.864	1448080	2243610	12.623	11.432
17) 4,4'-DDT	8.204	8.987	1146556	1841119	14.788	14.109
18) Endrin Al...	8.406	9.101	1375129	2125028	13.321	12.396
19) Endosulfa...	8.707	9.292	1553540	2424584	12.512	12.489
20) Methoxychlor	8.542	9.465	561706	883069	15.275	14.167
21) Endrin Ke...	8.900	9.689	1664380	2496985	12.124	12.365
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231911.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 14:42  
Operator : MJB  
Sample : 9H23034-CAL4  
Misc : A19E249, AB 10 ppb  
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:19:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231912.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:00  
 Operator : MJB  
 Sample : 9H23034-CAL5  
 Misc : A19E250, AB 25 ppb  
 ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:19:37 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MB 8/26/19*

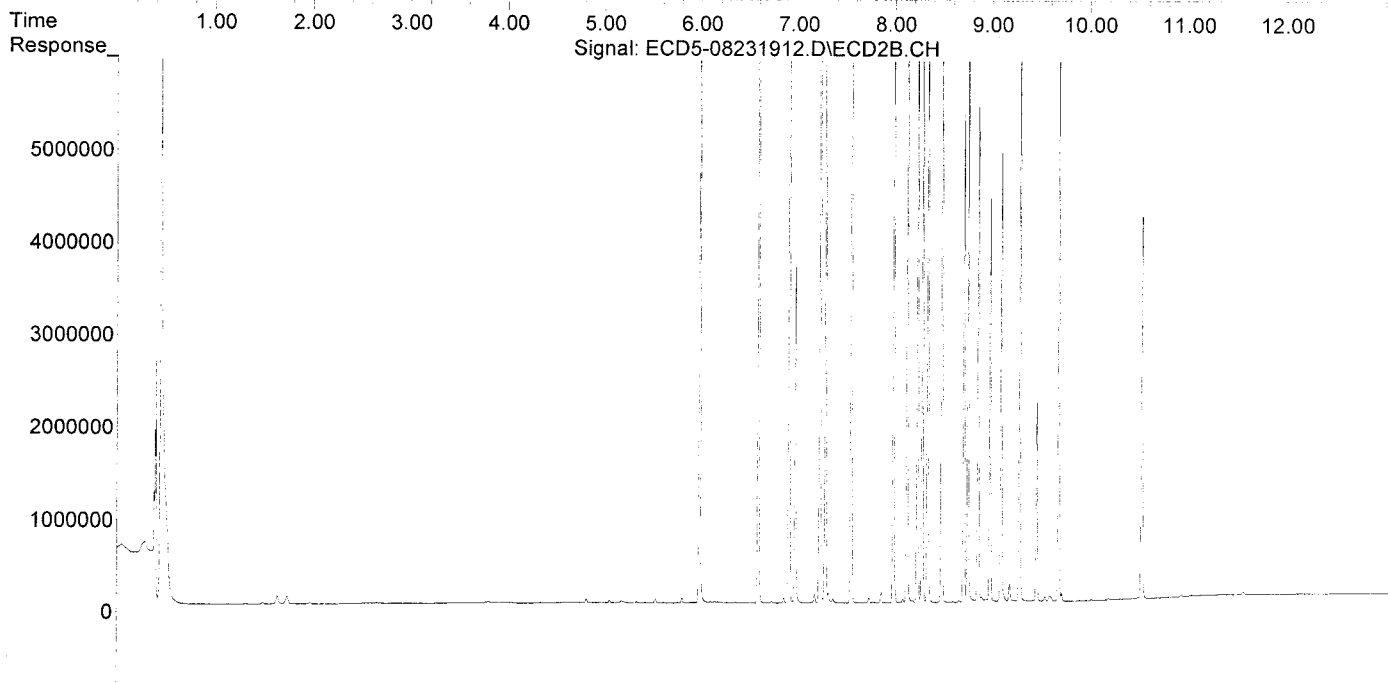
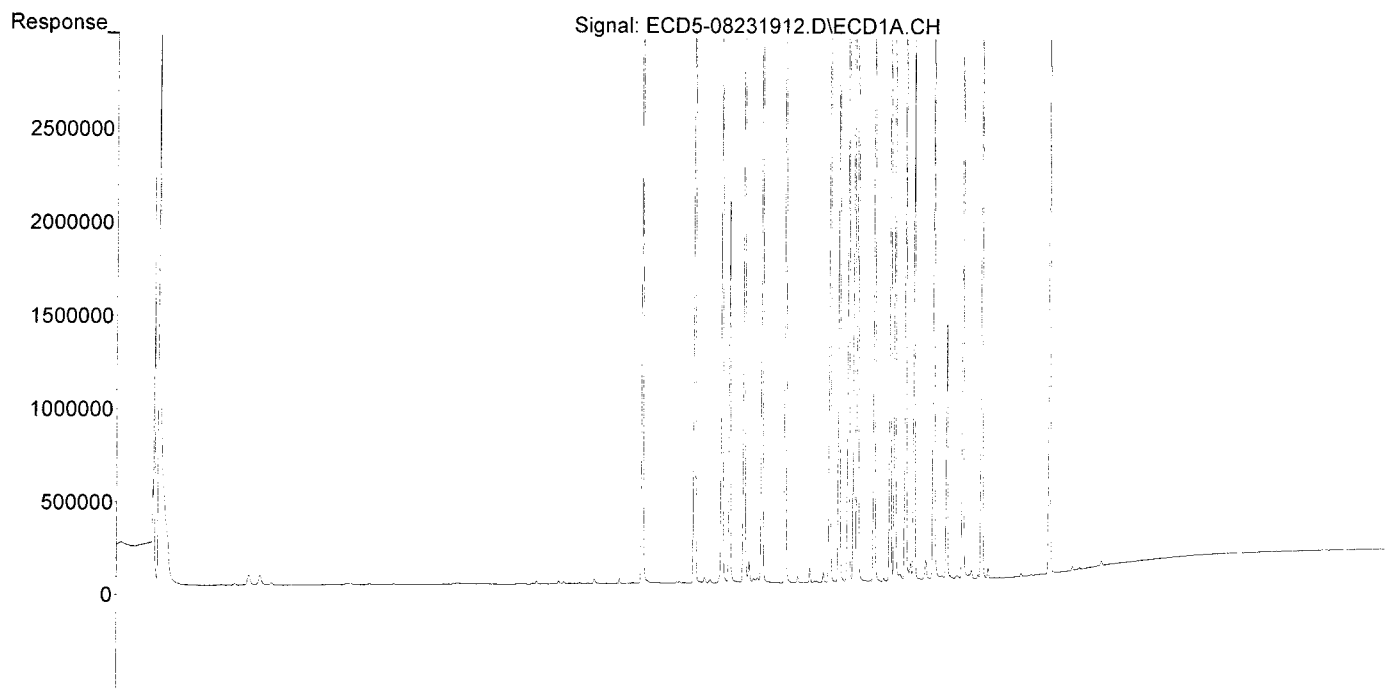
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	4015832	7072923	37.101	36.221
22) S DCBP (S)	9.592	10.539	3342634	4163229	30.365	26.219
Target Compounds						
2) a-BHC	5.935	6.596	5553096	9910863	35.515	30.324
3) g-BHC	6.218	6.913	4875657	8508386	32.445	28.267
4) b-BHC	6.297	6.978	2060378	3677155	34.755	30.244
5) Heptachlor	6.633	7.289	4314306	7282282	26.568	24.766
6) d-BHC	6.447	7.232	4667166	8247775	39.910	32.244
7) Aldrin	6.873	7.555	4845355	7878574	28.797	27.203
8) Heptachlo...	7.332	7.992	4344286	7064729	27.642	26.758
9) trans-Chl...	7.429	8.131	4401456	7157480	28.469	27.194
10) cis-Chlor...	7.525	8.239	4244413	6935857	27.657	27.304
11) Endosulfa...	7.621	8.288	4111285	6571512	27.630	27.643
12) 4,4'-DDE	7.583	8.343	4571066	7501047	36.397	32.167
13) Dieldrin	7.792	8.489	4582306	7333890	27.672	27.063
14) Endrin	7.957	8.716	3508904	5325883	26.694	26.642
15) 4,4'-DDD	8.004	8.758	3727035	6146469	37.001	31.304
16) Endosulfa...	8.115	8.862	3371864	5447602	29.393	27.758
17) 4,4'-DDT	8.202	8.984	2924467	4480388	35.460	32.123
18) Endrin Al...	8.404	9.099	3119767	4848504	30.221	28.282
19) Endosulfa...	8.705	9.289	3645411	5978906	29.360	30.102
20) Methoxychlor	8.540	9.463	1390283	2166659	36.145	32.800
21) Endrin Ke...	8.899	9.688	4008958	5893691	29.202	28.514
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231912.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:00  
Operator : MJB  
Sample : 9H23034-CAL5  
Misc : A19E250, AB 25 ppb  
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:19:37 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231913.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:17  
 Operator : MJB  
 Sample : 9H23034-CAL6  
 Misc : A19H383, AB 50 ppb  
 ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 10:58:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Wed Aug 07 17:49:44 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

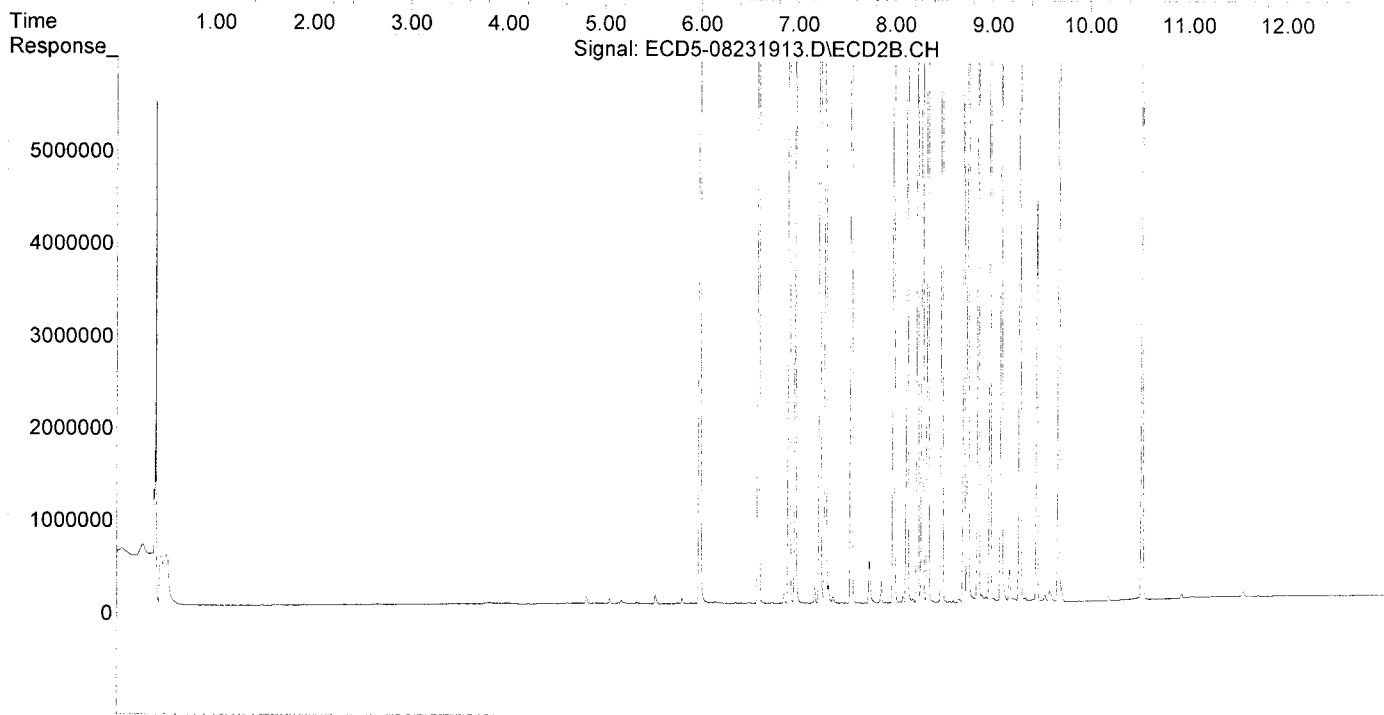
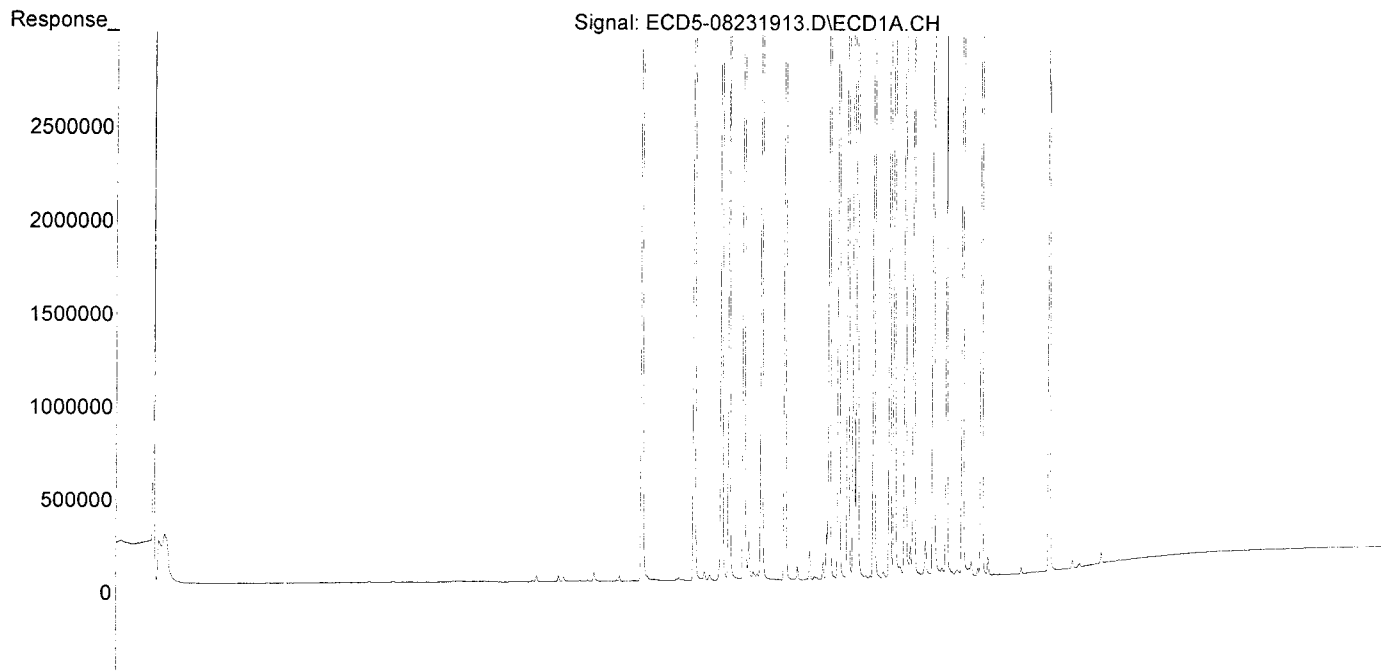
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.989	8071481	14196745	74.571	69.077
22) S DCBP (S)	9.592	10.541	6678990	8730692	60.740	54.984
Target Compounds						
2) a-BHC	5.935	6.596	11369592	20265817	69.154	59.445
3) g-BHC	6.218	6.914	9785999	17381069	65.120	57.745
4) b-BHC	6.296	6.978	4100858	7516011	69.174	61.818
5) Heptachlor	6.632	7.290	8735158	14595143	53.793	49.636
6) d-BHC	6.447	7.232	9610742	17311258	77.761	64.308
7) Aldrin	6.873	7.555	9327672	16264416	55.436	56.158
8) Heptachlo...	7.332	7.992	8869300	14837794	56.484	56.198
9) trans-Chl...	7.428	8.131	8959305	14678719	57.950	55.771
10) cis-Chlor...	7.524	8.238	8622674	14002116	56.187	55.122
11) Endosulfa...	7.621	8.289	7984410	13712329	53.659	57.680
12) 4,4'-DDE	7.583	8.344	9177389	15554706	70.089	63.904
13) Dieldrin	7.792	8.489	9386664	15434113	56.685	56.955
14) Endrin	7.957	8.716	6979572	11015379	53.097	52.880
15) 4,4'-DDD	8.004	8.758	7726197	13159451	73.239	67.021
16) Endosulfa...	8.114	8.863	6840920	11534525	59.632	58.774
17) 4,4'-DDT	8.202	8.985	6205369	9285492	69.085	60.834
18) Endrin Al...	8.404	9.099	6224451	10209034	60.296	59.551
19) Endosulfa...	8.705	9.289	7420576	12149289	59.766	58.797
20) Methoxychlor	8.540	9.464	2860683	4346199	69.570	60.726
21) Endrin Ke...	8.899	9.687	8190707	12954568	59.663	59.905
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231913.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:17  
Operator : MJB  
Sample : 9H23034-CAL6  
Misc : A19H383, AB 50 ppb  
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 10:58:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Wed Aug 07 17:49:44 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231914.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:34  
 Operator : MJB  
 Sample : 9H23034-CAL7  
 Misc : A19H382, AB 100 ppb  
 ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:20:14 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

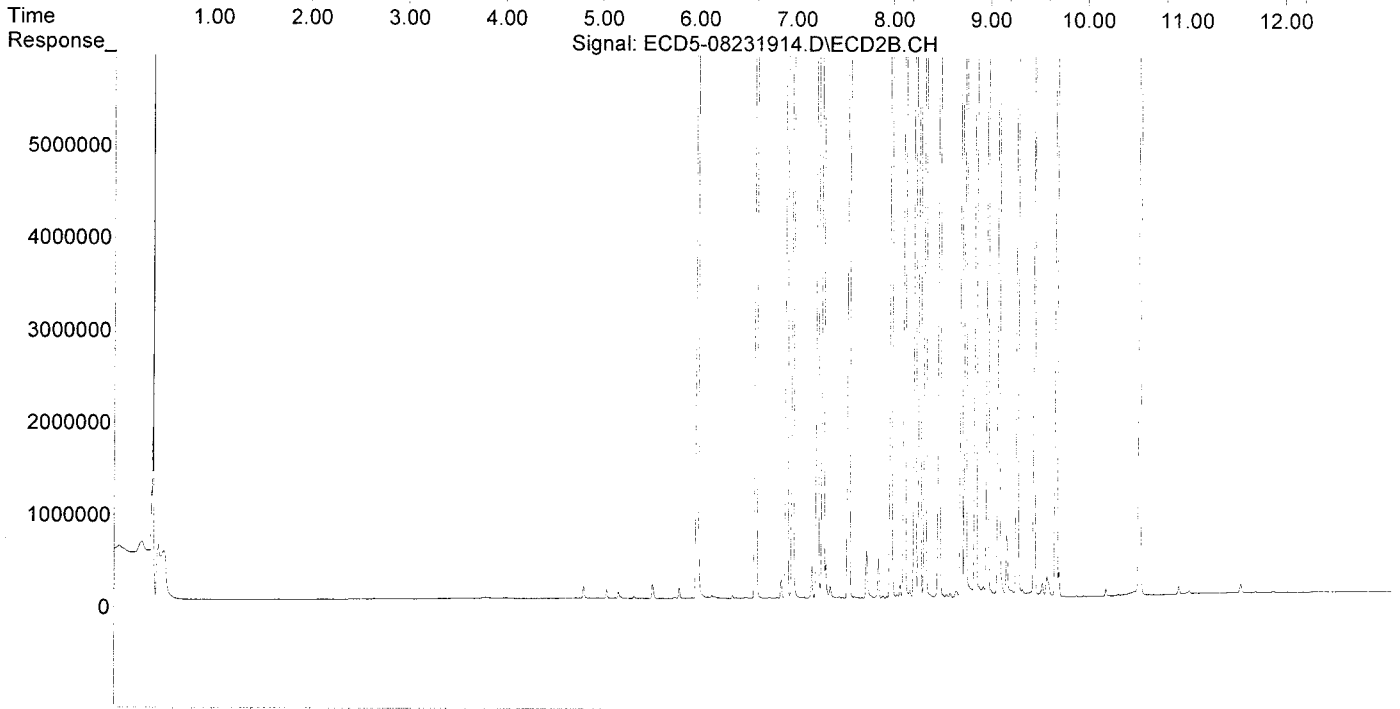
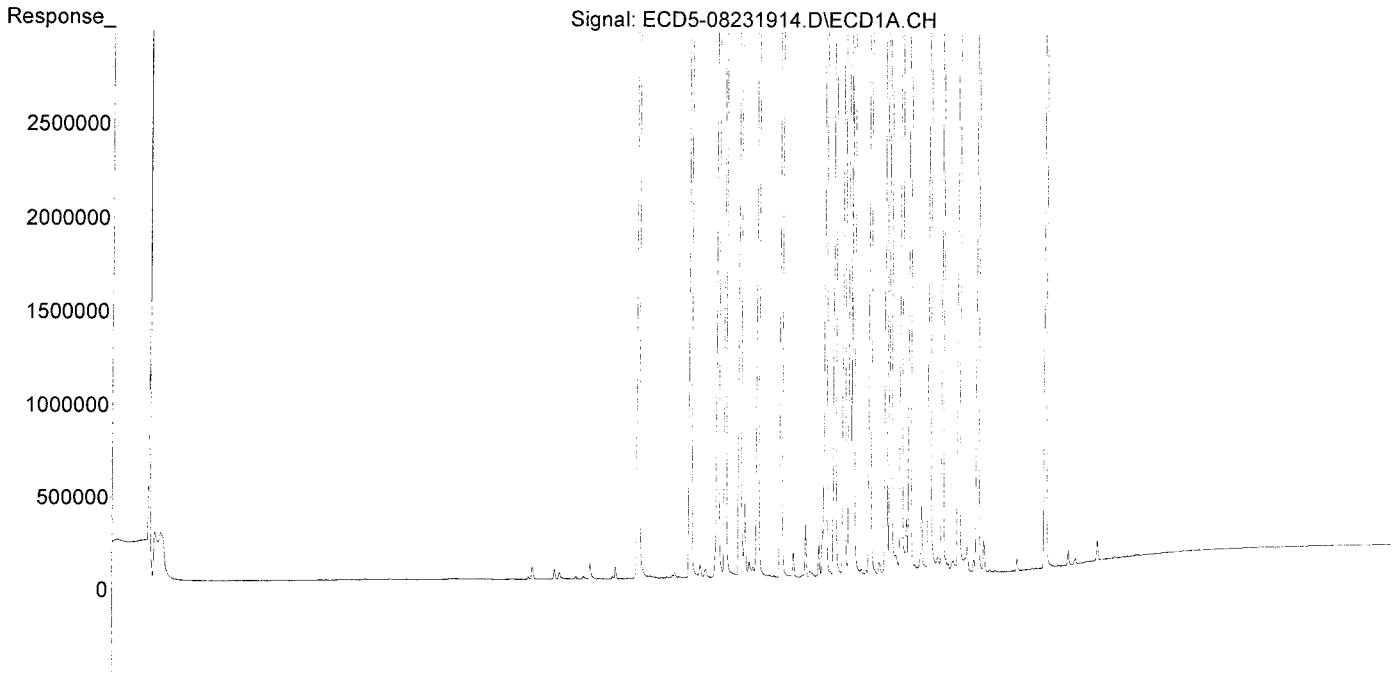
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.395	5.989	15850922	29256334	146.444	130.224
22) S DCBP (S)	9.592	10.540	13405396	17784069	121.277	111.999
Target Compounds						
2) a-BHC	5.935	6.596	22363584	41699210	125.842	113.668
3) g-BHC	6.218	6.914	19595093	36788994	130.394	122.224
4) b-BHC	6.296	6.977	8355416	14625175	140.940	120.290
5) Heptachlor	6.632	7.289	17551528	30277818	108.086	102.970
6) d-BHC	6.446	7.232	19475580	35176633	144.149	120.302
7) Aldrin	6.872	7.555	19108074	33906422	113.562	117.072
8) Heptachlo...	7.331	7.991	17318444	30045511	110.195	113.798
9) trans-Chl...	7.427	8.131	17732791	30742272	114.698	116.803
10) cis-Chlor...	7.523	8.238	16742584	29042863	109.098	114.333
11) Endosulfa...	7.619	8.288	16089996	27212707	108.133	114.469
12) 4,4'-DDE	7.582	8.344	18052552	32499603	128.779	123.812
13) Dieldrin	7.791	8.488	18324422	31001958	110.659	114.403
14) Endrin	7.957	8.715	13812708	23102413	105.080	102.828
15) 4,4'-DDD	8.003	8.758	15437146	26297484	135.694	133.933
16) Endosulfa...	8.113	8.861	13543500	23016371	118.059	117.279
17) 4,4'-DDT	8.201	8.984	12176961	19789501	120.685	112.516
18) Endrin Al...	8.403	9.098	12363806	20502737	119.767	119.596
19) Endosulfa...	8.704	9.289	14366789	24477320	115.711	110.592
20) Methoxychlor	8.539	9.463	5877329	9444987	128.396	114.860
21) Endrin Ke...	8.898	9.687	16251943	26636559	118.383	114.357
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231914.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:34  
Operator : MJB  
Sample : 9H23034-CAL7  
Misc : A19H382, AB 100 ppb  
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:20:14 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231915.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 15:52  
 Operator : MJB  
 Sample : 9H23034-CAL8  
 Misc : A19E244, AB 200 ppb  
 ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:20:45 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB  
8/26/19*

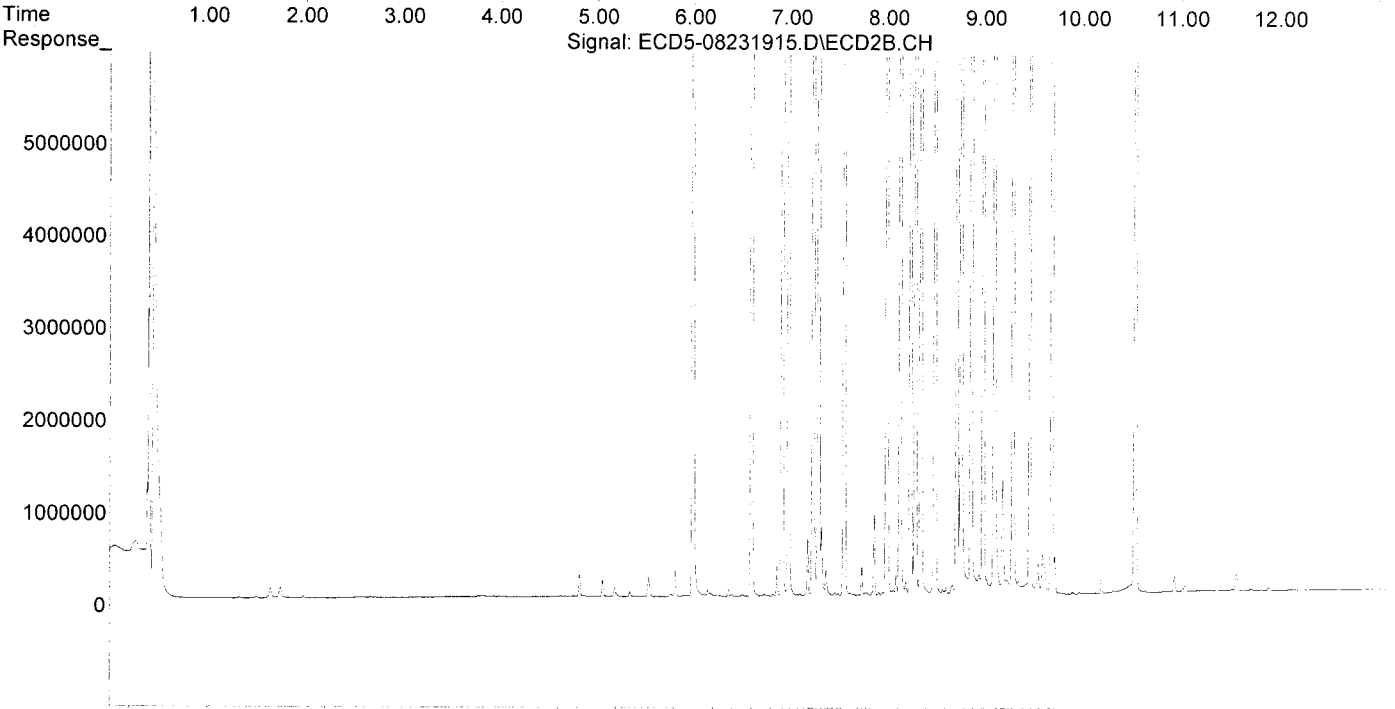
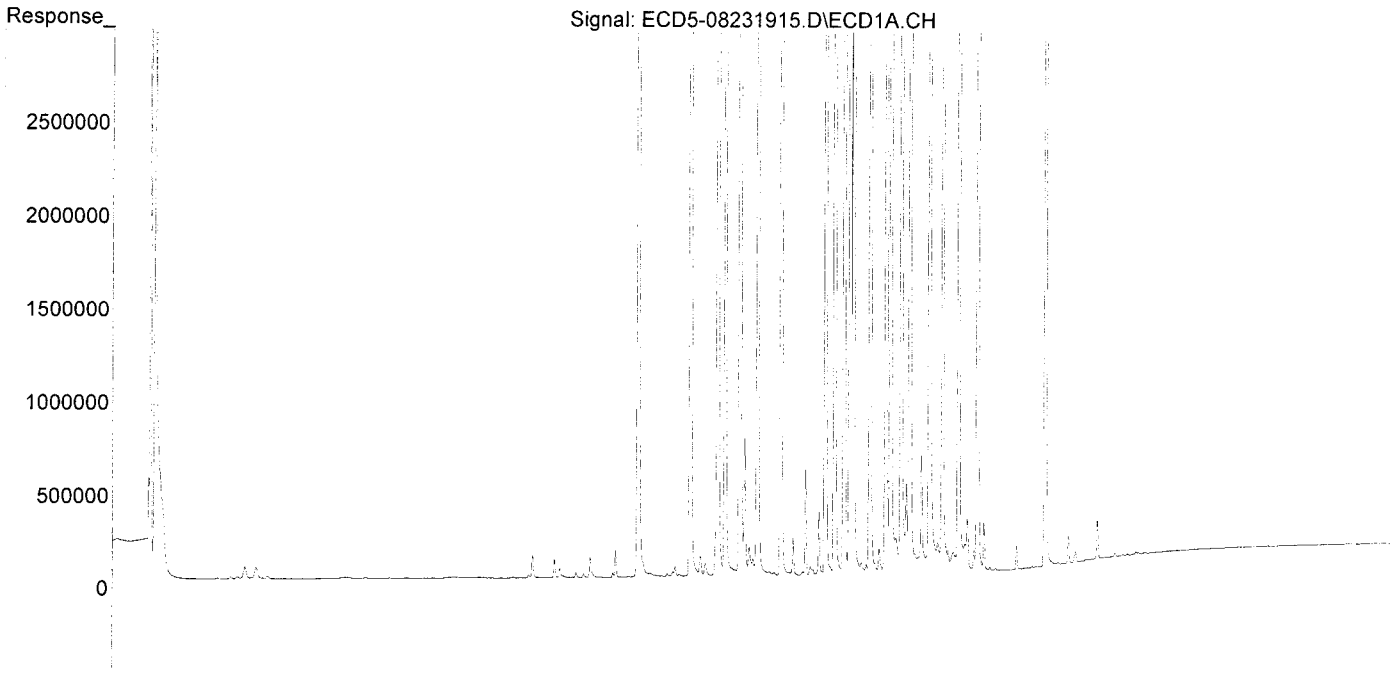
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.394	5.990	32842535	62584449	303.426	241.228
22) S DCBP (S)	9.591	10.539	26975231	38097779	240.687	239.829
Target Compounds						
2) a-BHC	5.935	6.597	47202252	94376748	232.879	224.790
3) g-BHC	6.218	6.914	41889726	80765680	278.753	268.327
4) b-BHC	6.294	6.977	18238696	32553433	307.652	267.747
5) Heptachlor	6.630	7.289	37785699	71283176	232.692	242.422
6) d-BHC	6.445	7.232	41016592	80979751	263.399	237.546
7) Aldrin	6.870	7.554	39838403	73228186	236.765	252.843
8) Heptachlo...	7.330	7.991	36258170	65330070	230.706	247.439
9) trans-Chl...	7.425	8.130	37621413	66447972	243.340	252.464
10) cis-Chlor...	7.521	8.238	35207945	63977063	229.421	251.859
11) Endosulfa...	7.618	8.288	33852593	61043507	227.507	256.777
12) 4,4'-DDE	7.581	8.344	38763081	69842351	244.719	234.608
13) Dieldrin	7.791	8.489	39217772	70031781	236.831	258.430
14) Endrin	7.955	8.715	31426311	52779585	239.075	204.455
15) 4,4'-DDD	8.002	8.758	32436804	59560270	251.258	303.340
16) Endosulfa...	8.112	8.862	29471042	51834888	256.899	264.124
17) 4,4'-DDT	8.200	8.984	29075222	48203441	237.877	216.675
18) Endrin Al...	8.402	9.098	26627672	45084544	257.940	262.986
19) Endosulfa...	8.704	9.289	31126520	54592794	250.696	216.937
20) Methoxychlor	8.537	9.463	14271143	23714100	255.612	227.264
21) Endrin Ke...	8.898	9.688	35094718	60861376	255.639	227.431
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231915.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 15:52  
Operator : MJB  
Sample : 9H23034-CAL8  
Misc : A19E244, AB 200 ppb  
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:20:45 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231918.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 16:44  
 Operator : MJB  
 Sample : 9H23034-CAL9  
 Misc : A19E272, 9-42 1 ppb  
 ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:23:34 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

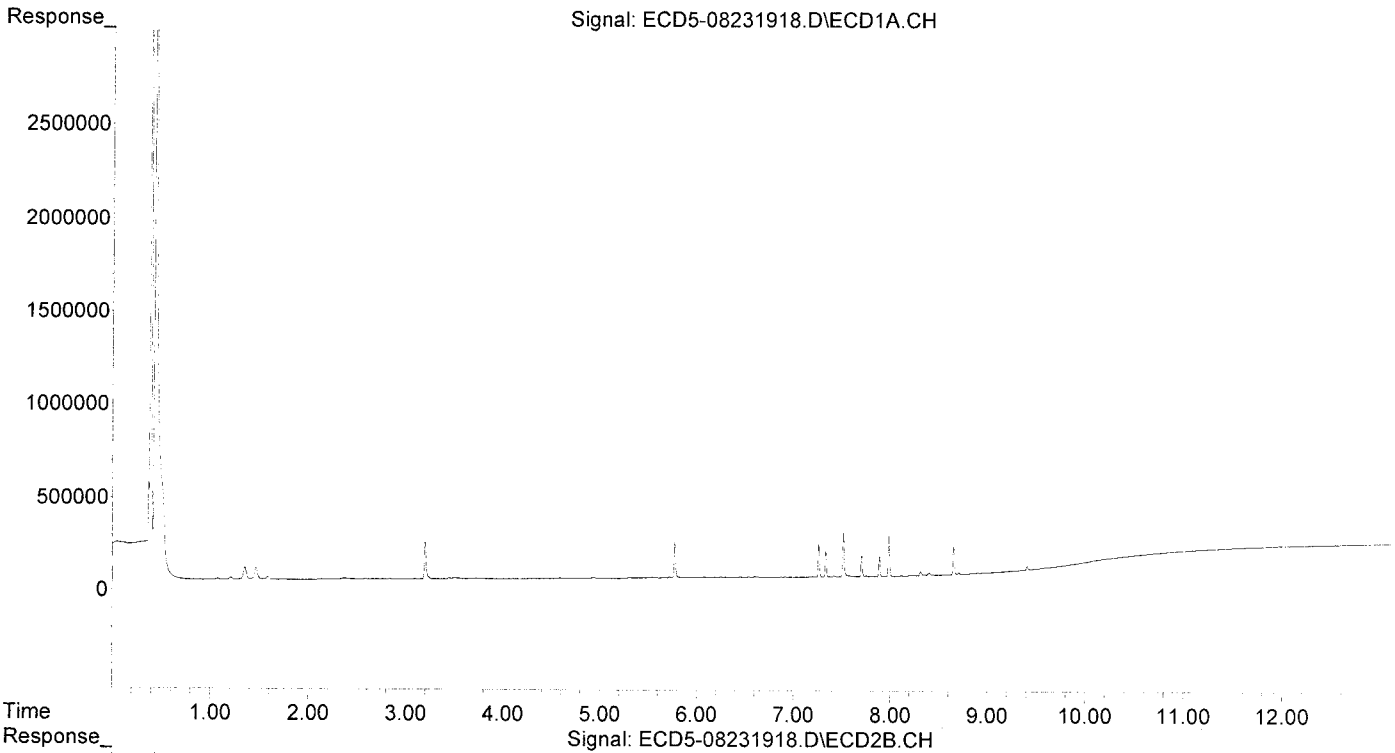
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.198	3.687	198207	383198	1.330	1.219
24) Hexachlor...	5.775	6.453	194679	328025	1.585	1.463
25) Oxychlordane	7.263	7.922	176844	279143	1.364	1.326
26) 2,4'-DDE	7.335	8.123	137947	219164	1.468	1.405
27) trans-Non...	7.518	8.195	236836	306202	1.652	1.333
28) 2,4'-DDD	7.707	8.495	120240	192040	1.439	1.409
29) 2,4'-DDT	7.890	8.719	107110	173338	1.500	1.372
30) cis-Nonac...	7.987	8.759	219220	332745	1.362	1.310
31) Mirex	8.655	9.680	147356	209783	1.505	1.458
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231918.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 16:44  
Operator : MJB  
Sample : 9H23034-CAL9  
Misc : A19E272, 9-42 1 ppb  
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:23:34 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231919.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:01  
 Operator : MJB  
 Sample : 9H23034-CALA  
 Misc : A19E273, 9-42 2 ppb  
 ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:24:10 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

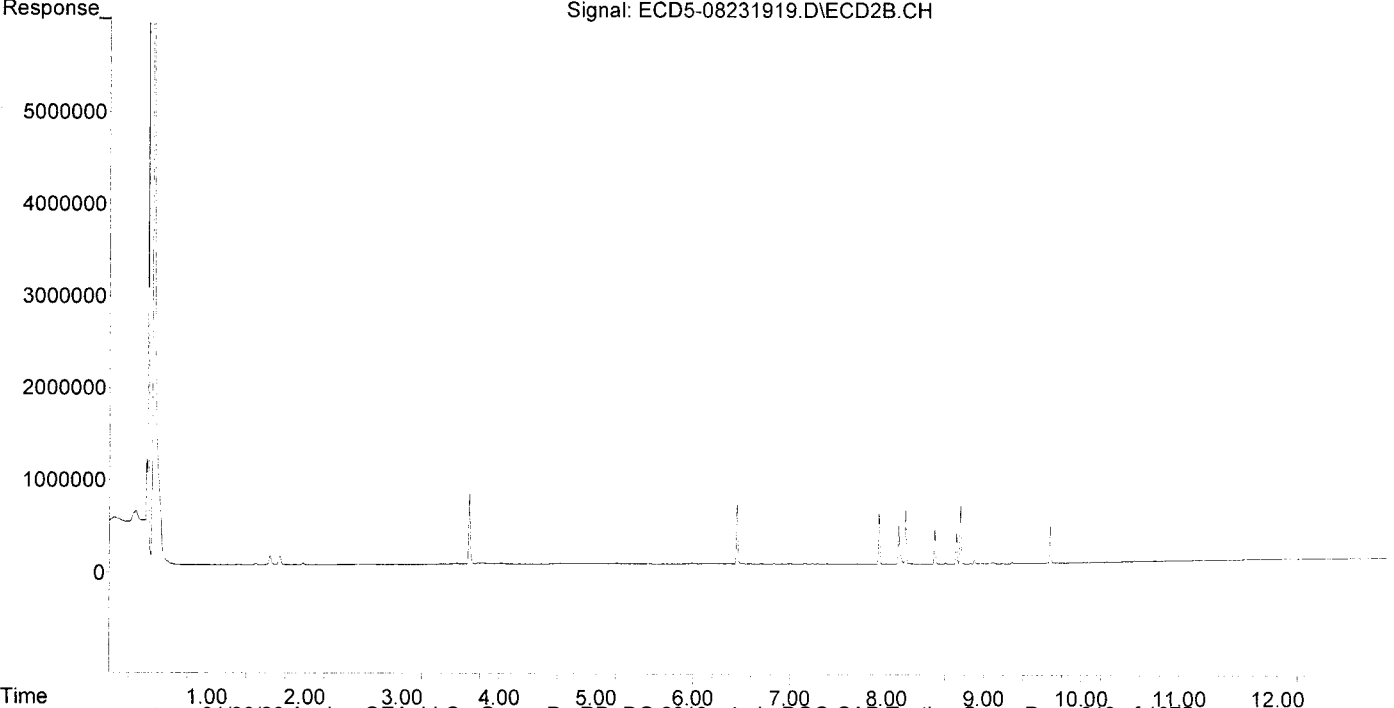
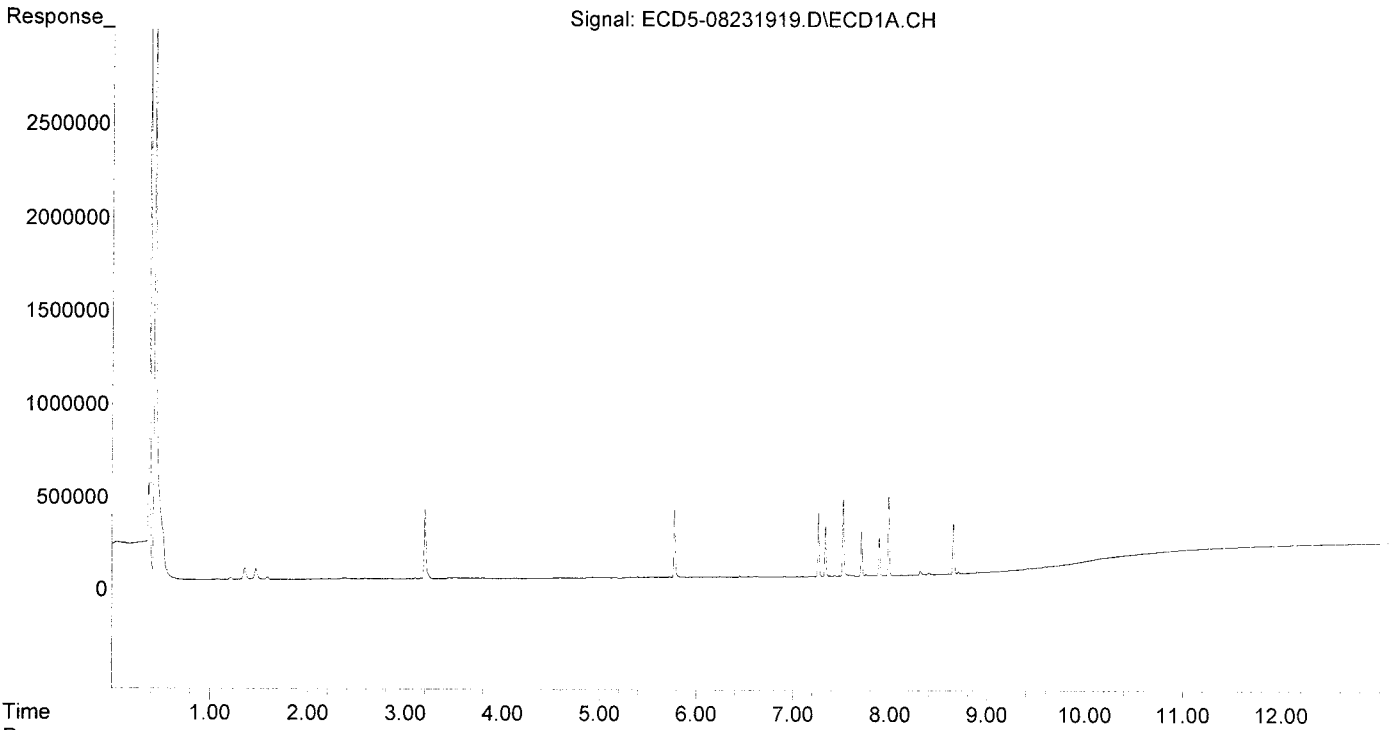
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.198	3.687	375794	754548	2.521	2.400
24) Hexachlor...	5.775	6.453	362082	632830	2.948	2.823
25) Oxychlordane	7.262	7.921	339370	541023	2.617	2.571
26) 2,4'-DDE	7.334	8.123	265212	411812	2.822	2.639
27) trans-Non...	7.518	8.194	415126	587765	2.896	2.559
28) 2,4'-DDD	7.707	8.495	233089	373596	2.789	2.741
29) 2,4'-DDT	7.889	8.718	204209	332170	2.725	2.614
30) cis-Nonac...	7.986	8.758	423442	624783	2.632	2.460
31) Mirex	8.655	9.680	266770	388199	2.725	2.697
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231919.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:01  
Operator : MJB  
Sample : 9H23034-CALA  
Misc : A19E273, 9-42 2 ppb  
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:24:10 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231920.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:18  
 Operator : MJB  
 Sample : 9H23034-CALB  
 Misc : A19E274, 9-42 5 ppb  
 ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:24:43 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

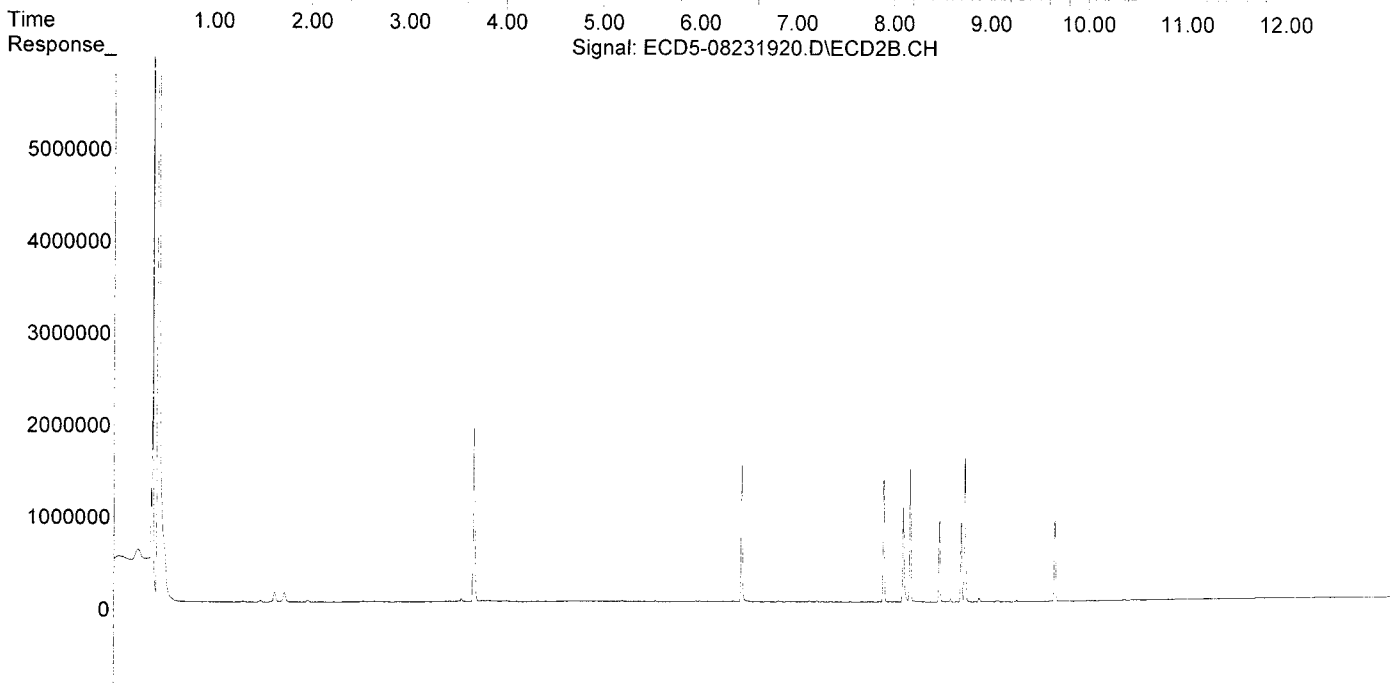
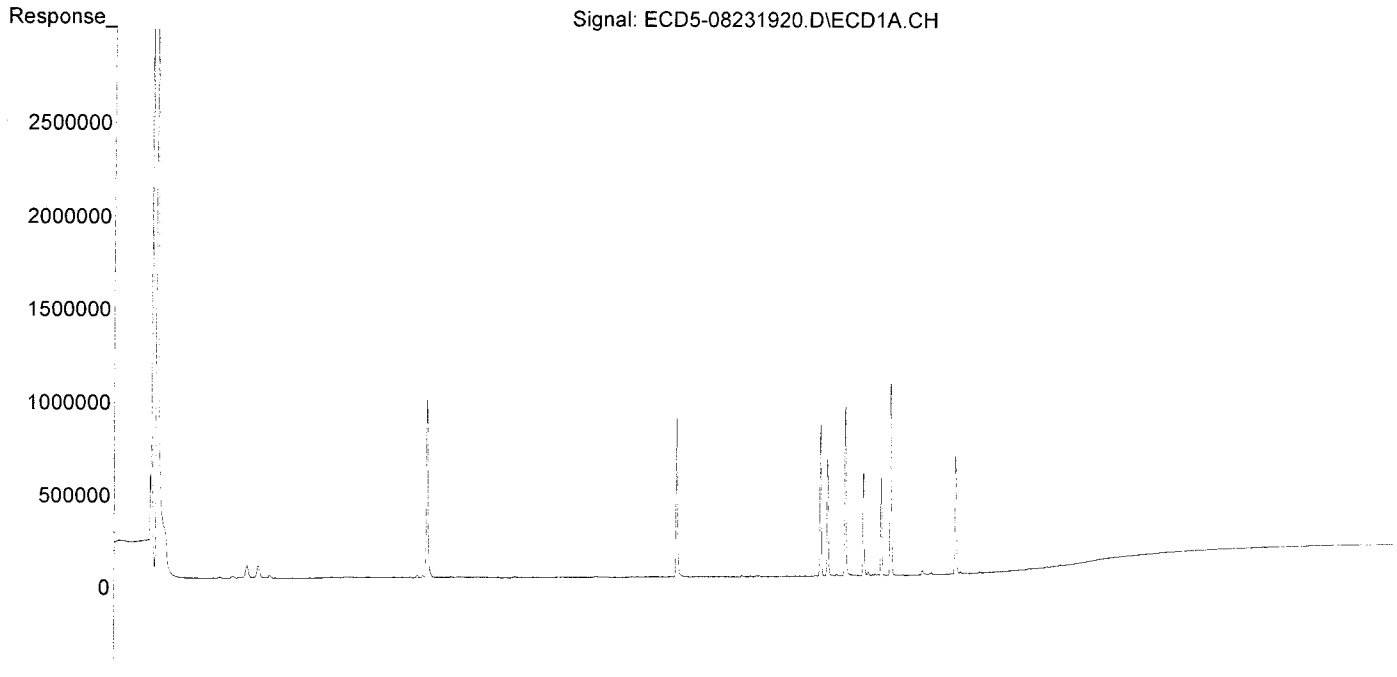
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.198	3.687	959211	1877484	6.435	5.971
24) Hexachlor...	5.775	6.453	853793	1485583	6.951	6.626
25) Oxychlordane	7.262	7.921	819748	1325543	6.321	6.298
26) 2,4'-DDE	7.334	8.123	633168	1029687	6.738	6.600
27) trans-Non...	7.518	8.194	933222	1467723	6.510	6.390
28) 2,4'-DDD	7.705	8.495	560942	898697	6.711	6.593
29) 2,4'-DDT	7.889	8.719	536967	873074	6.892	6.802
30) cis-Nonac...	7.986	8.759	1025899	1587243	6.376	6.249
31) Mirex	8.654	9.679	628618	895523	6.422	6.222
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231920.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:18  
Operator : MJB  
Sample : 9H23034-CALB  
Misc : A19E274, 9-42 5 ppb  
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:24:43 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231921.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:35  
 Operator : MJB  
 Sample : 9H23034-CALC  
 Misc : A19E275, 9-42 10 ppb  
 ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:25:17 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

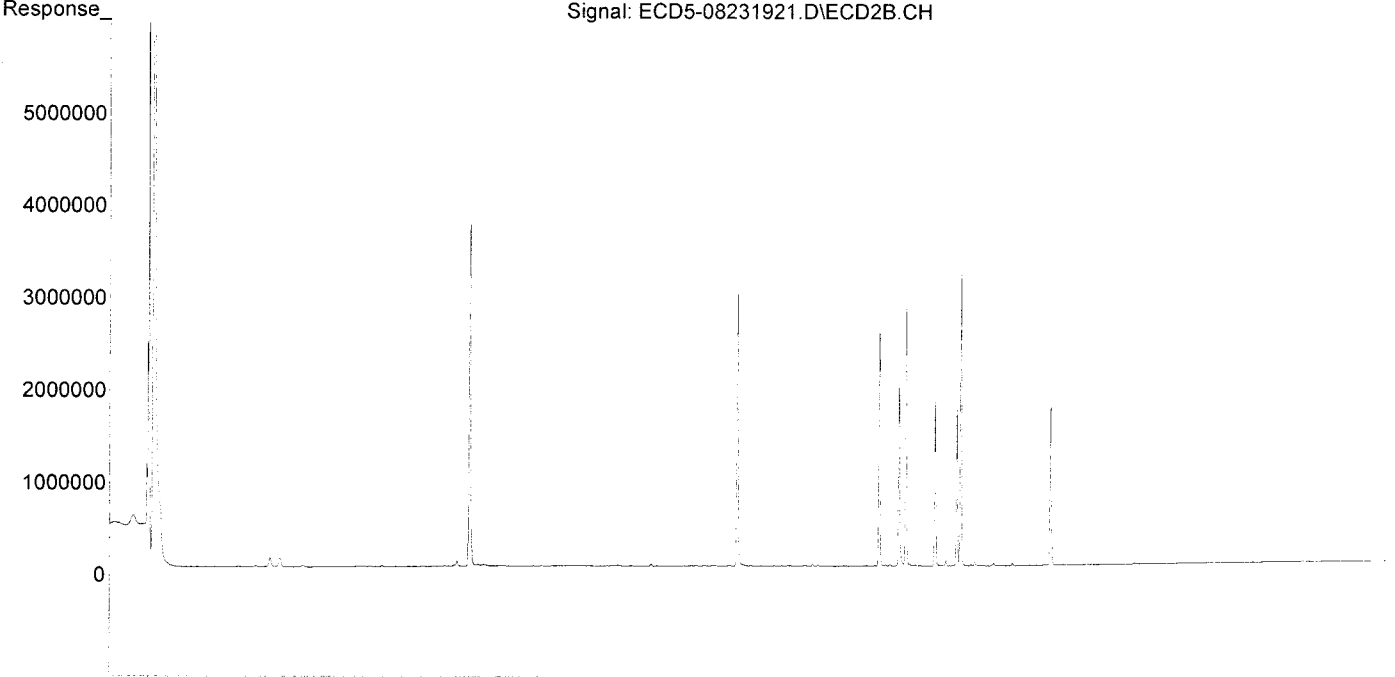
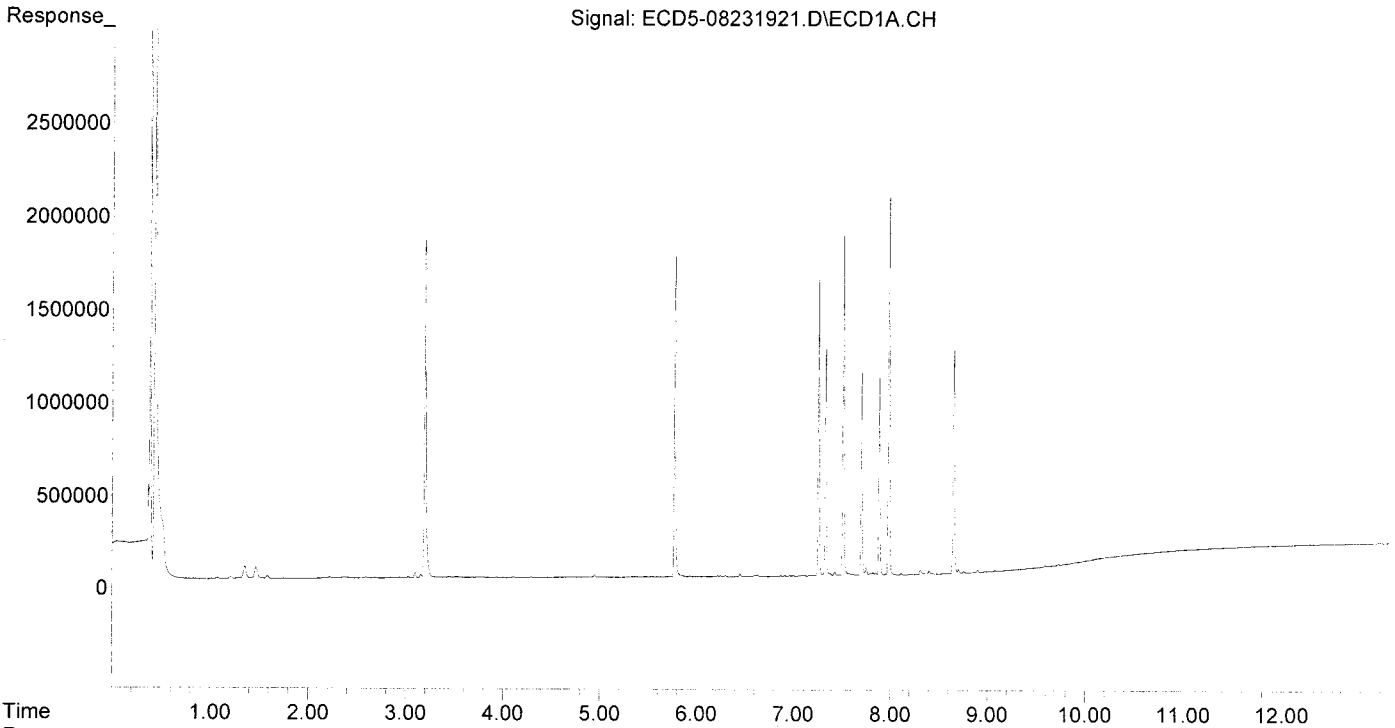
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.198	3.687	1838187	3701532	12.333	11.773
24) Hexachlor...	5.774	6.453	1711884	2936294	13.936	13.097
25) Oxychlordane	7.261	7.921	1591613	2538903	12.272	12.063
26) 2,4'-DDE	7.333	8.122	1245265	2018331	13.252	12.936
27) trans-Non...	7.516	8.194	1817552	2844404	12.679	12.384
28) 2,4'-DDD	7.705	8.495	1103587	1778790	13.203	13.050
29) 2,4'-DDT	7.888	8.719	1051565	1702568	13.249	13.099
30) cis-Nonac...	7.986	8.759	2032010	3148054	12.629	12.394
31) Mirex	8.654	9.679	1196365	1722960	12.222	11.971
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231921.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:35  
Operator : MJB  
Sample : 9H23034-CALC  
Misc : A19E275, 9-42 10 ppb  
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:25:17 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231922.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 17:53  
 Operator : MJB  
 Sample : 9H23034-CALD  
 Misc : A19E276, 9-42 25 ppb  
 ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:25:49 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

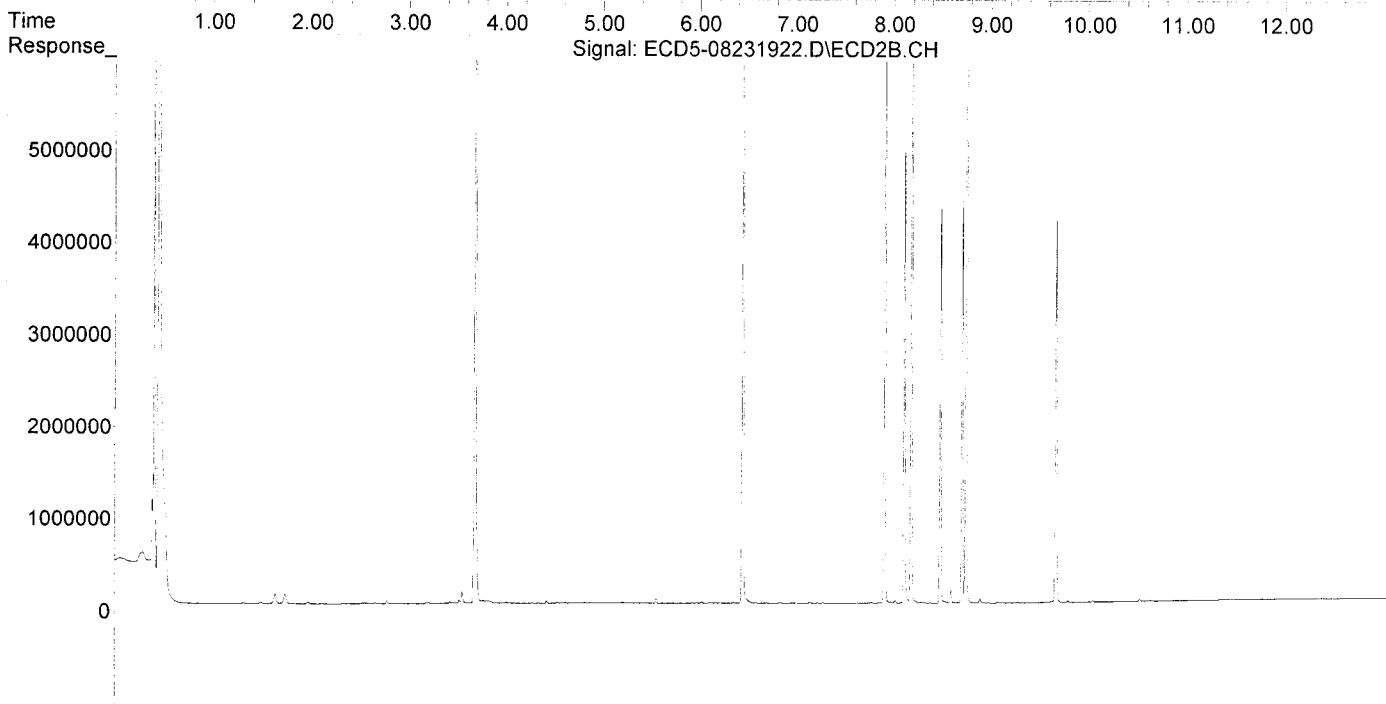
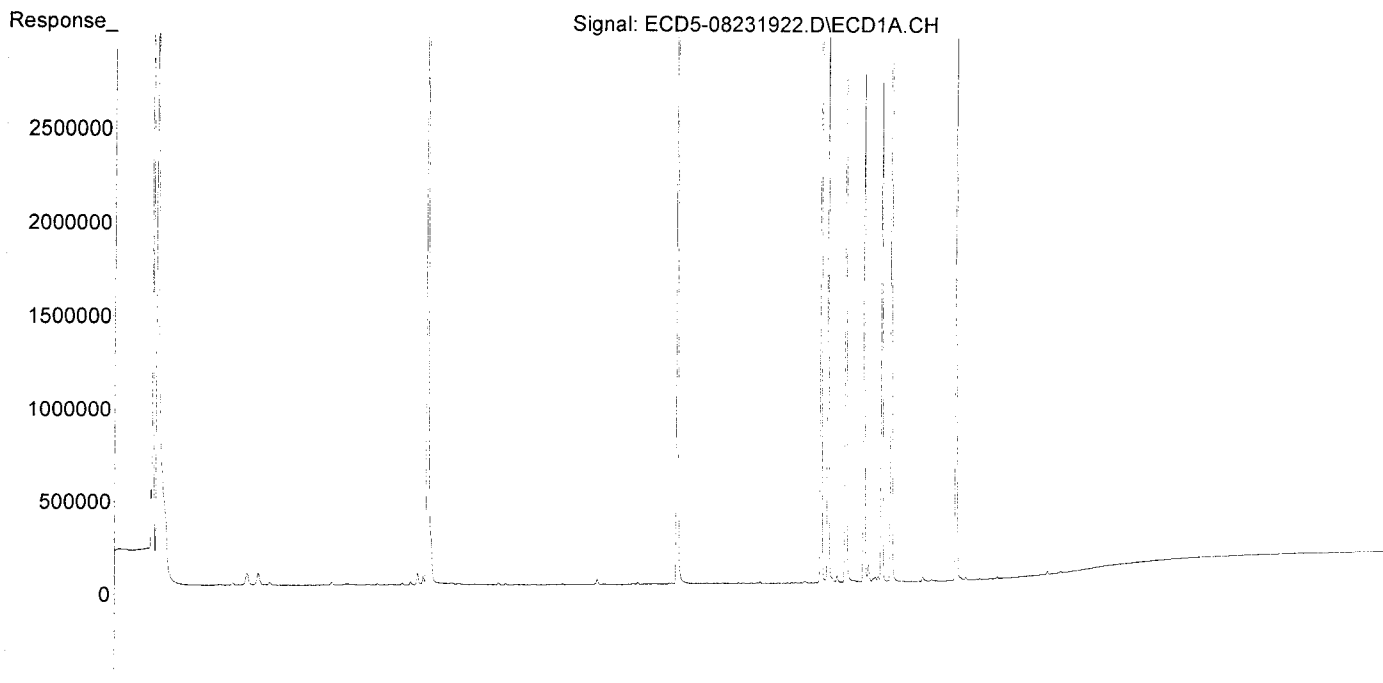
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.198	3.687	4363988	8892238	29.278	28.282
24) Hexachlor...	5.774	6.453	4184551	7416324	34.066	33.080
25) Oxychlordane	7.261	7.920	3881255	6202791	29.926	29.471
26) 2,4'-DDE	7.333	8.122	3059421	4999232	32.558	32.042
27) trans-Non...	7.516	8.194	4391046	7092288	30.631	30.877
28) 2,4'-DDD	7.705	8.495	2745178	4389185	32.844	32.200
29) 2,4'-DDT	7.888	8.719	2728794	4405554	33.278	32.676
30) cis-Nonac...	7.986	8.759	4993110	8219393	31.032	32.361
31) Mirex	8.654	9.679	2910818	4138115	29.738	28.753
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231922.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 17:53  
Operator : MJB  
Sample : 9H23034-CALD  
Misc : A19E276, 9-42 25 ppb  
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:25:49 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231923.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 18:10  
 Operator : MJB  
 Sample : 9H23034-CALE  
 Misc : A19E154, 9-42 50 ppb  
 ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:22:32 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 10:58:24 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

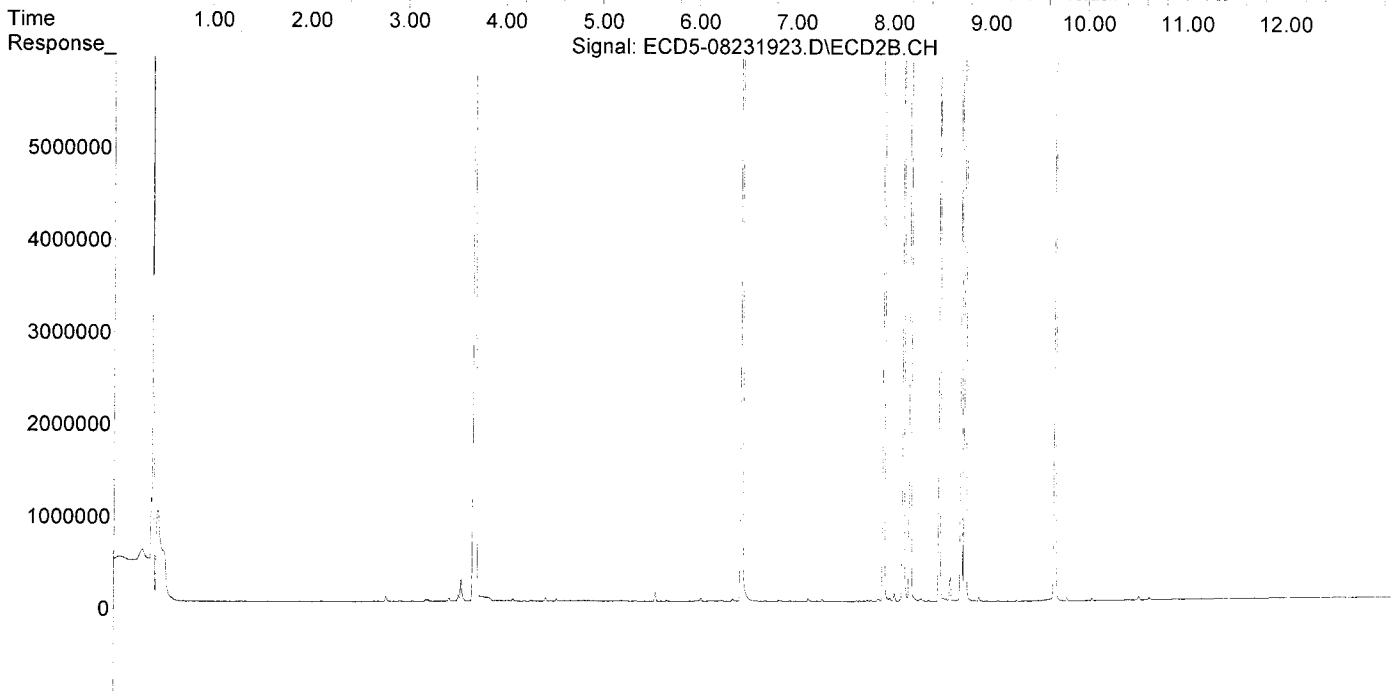
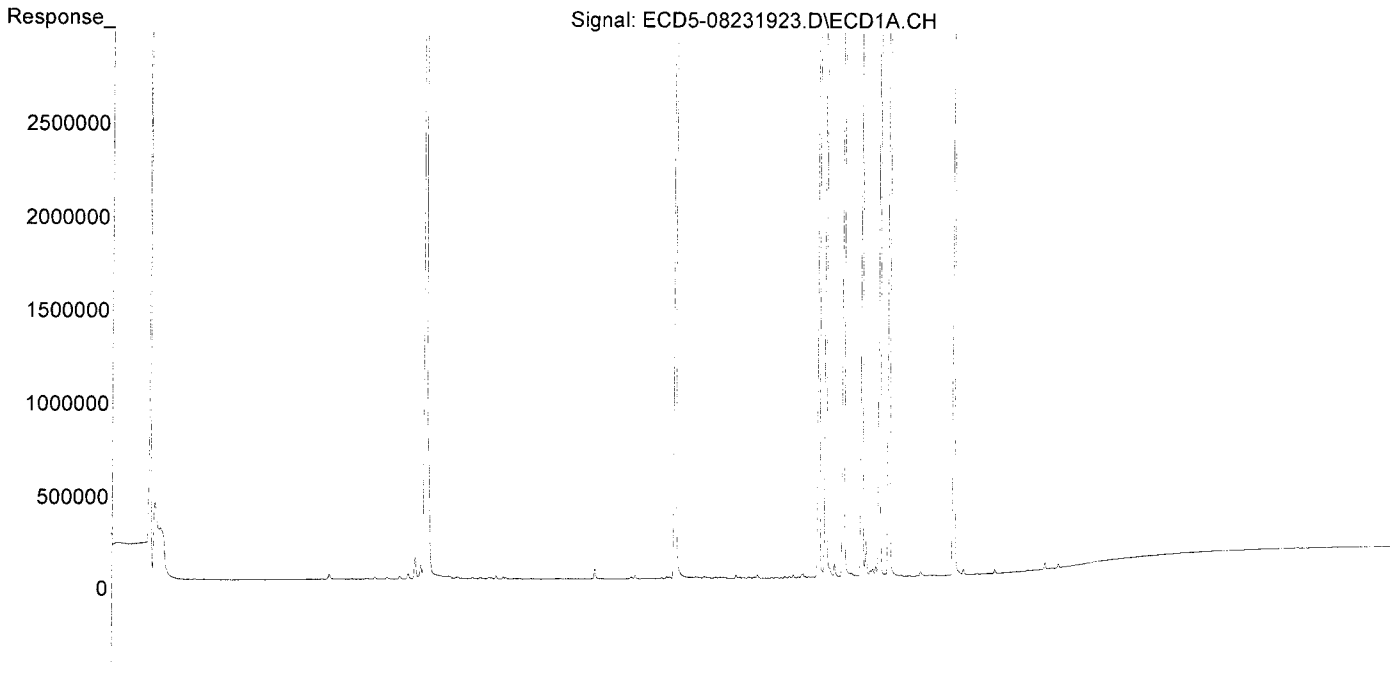
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.198	3.688	8761747	18635615	58.783	59.271
24) Hexachlor...	5.774	6.454	8911624	16094159	72.549	71.786
25) Oxychlordane	7.261	7.920	8382873	14172543	64.636	67.337
26) 2,4'-DDE	7.333	8.122	6510588	11006400	69.284	70.544
27) trans-Non...	7.516	8.194	9581794	15807712	66.841	68.821
28) 2,4'-DDD	7.705	8.495	5920095	9924934	70.829	72.811
29) 2,4'-DDT	7.888	8.718	5687323	8810591	66.398	62.033
30) cis-Nonac...	7.985	8.758	10616019	17721229	65.978	69.771
31) Mirex	8.652	9.679	6218341	9100959	67.528	63.235
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231923.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 18:10  
Operator : MJB  
Sample : 9H23034-CALE  
Misc : A19E154, 9-42 50 ppb  
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:22:32 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 10:58:24 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231924.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 18:27  
 Operator : MJB  
 Sample : 9H23034-CALF  
 Misc : A19E155, 9-42 100 ppb  
 ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:26:27 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

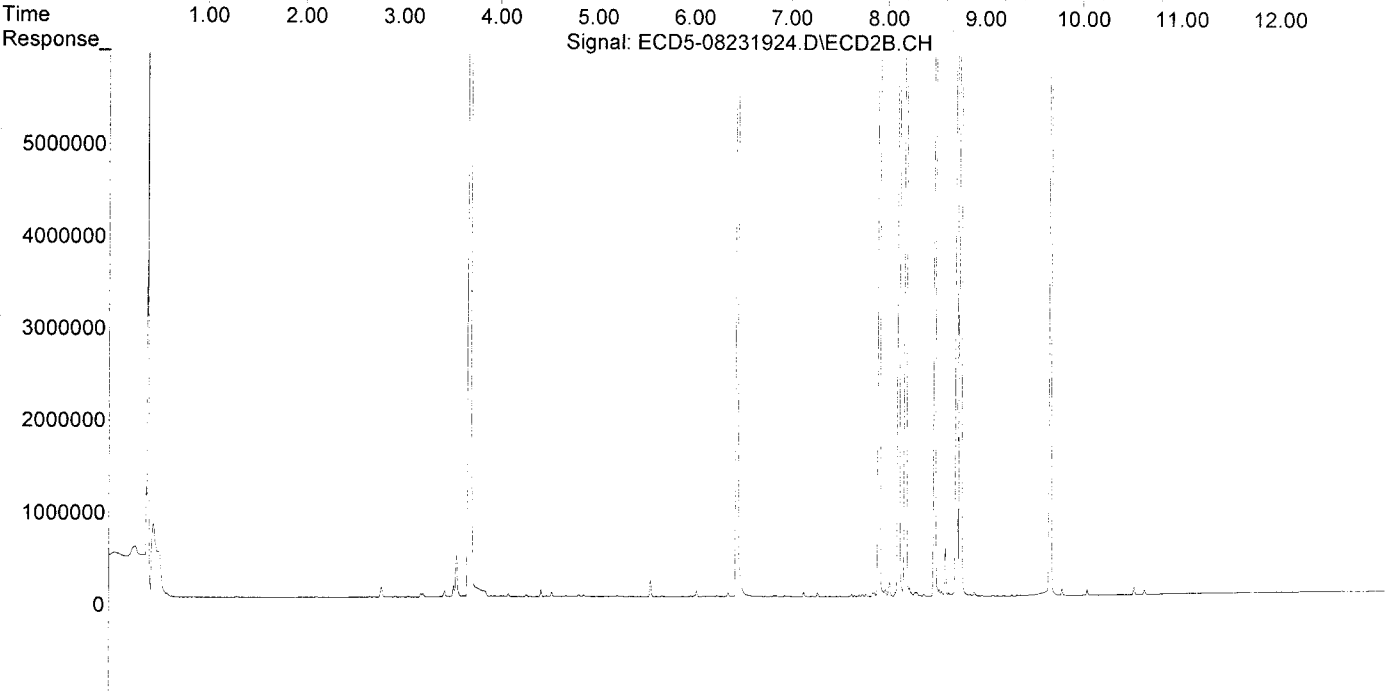
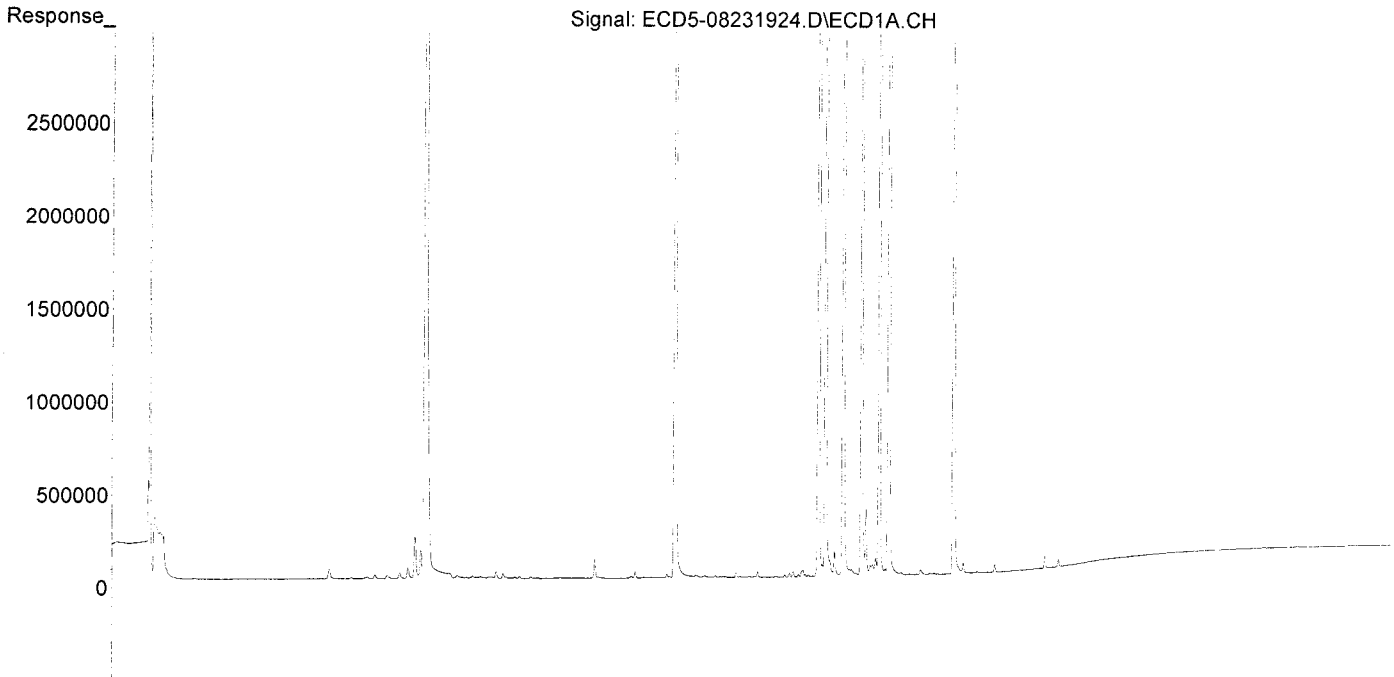
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.199	3.690	17952134	39298885	120.443	124.991
24) Hexachlor...	5.776	6.455	17670025	32766708	143.851	146.152
25) Oxychlordane	7.261	7.922	16359215	29732149	126.137	141.263
26) 2,4'-DDE	7.334	8.123	12769067	22164400	135.886	142.059
27) trans-Non...	7.516	8.195	18351251	31975271	128.015	139.210
28) 2,4'-DDD	7.705	8.496	11587554	20118925	138.635	147.597
29) 2,4'-DDT	7.888	8.721	11771354	18998968	127.689	121.350
30) cis-Nonac...	7.986	8.760	20932641	36072644	130.096	142.024
31) Mirex	8.653	9.680	11960753	19363200	122.194	134.540
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231924.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 18:27  
Operator : MJB  
Sample : 9H23034-CALF  
Misc : A19E155, 9-42 100 ppb  
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:26:27 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231925.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 18:45  
 Operator : MJB  
 Sample : 9H23034-CALG  
 Misc : A19E271, 9-42 200 ppb  
 ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:27:05 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*8/26/19*

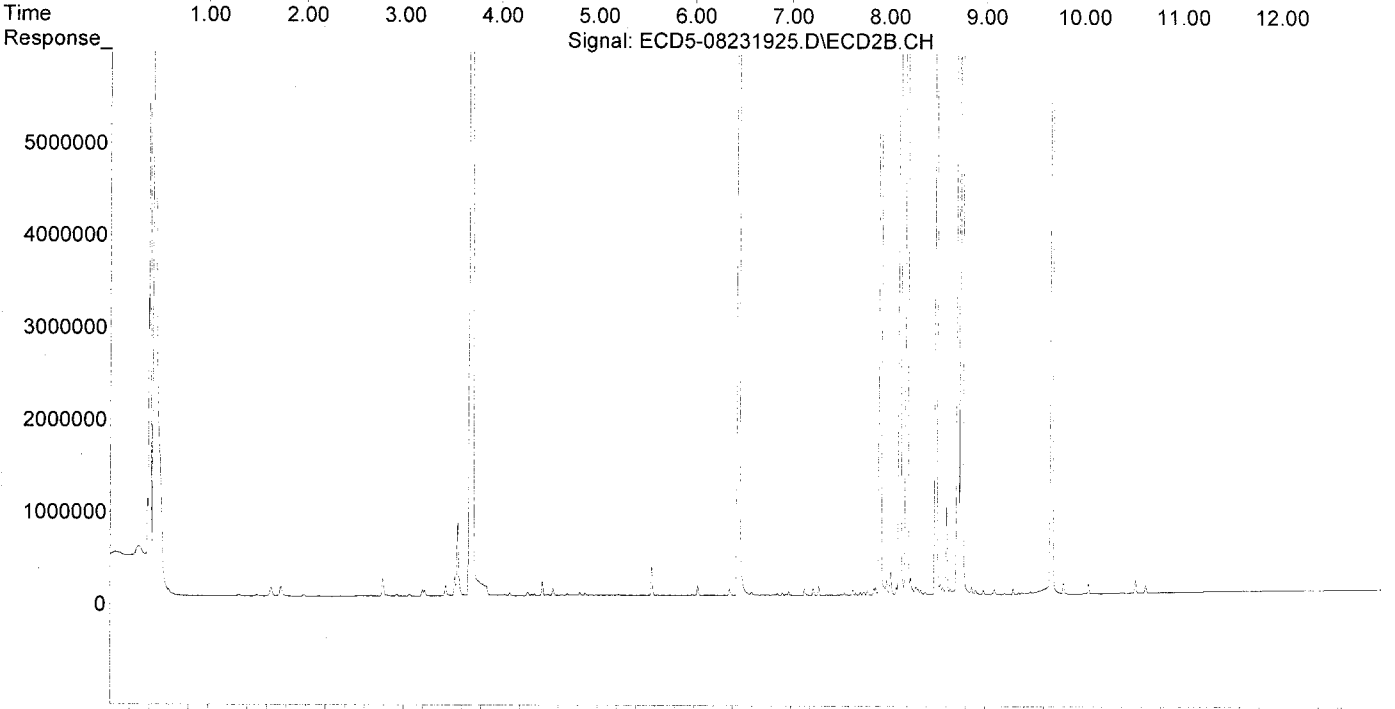
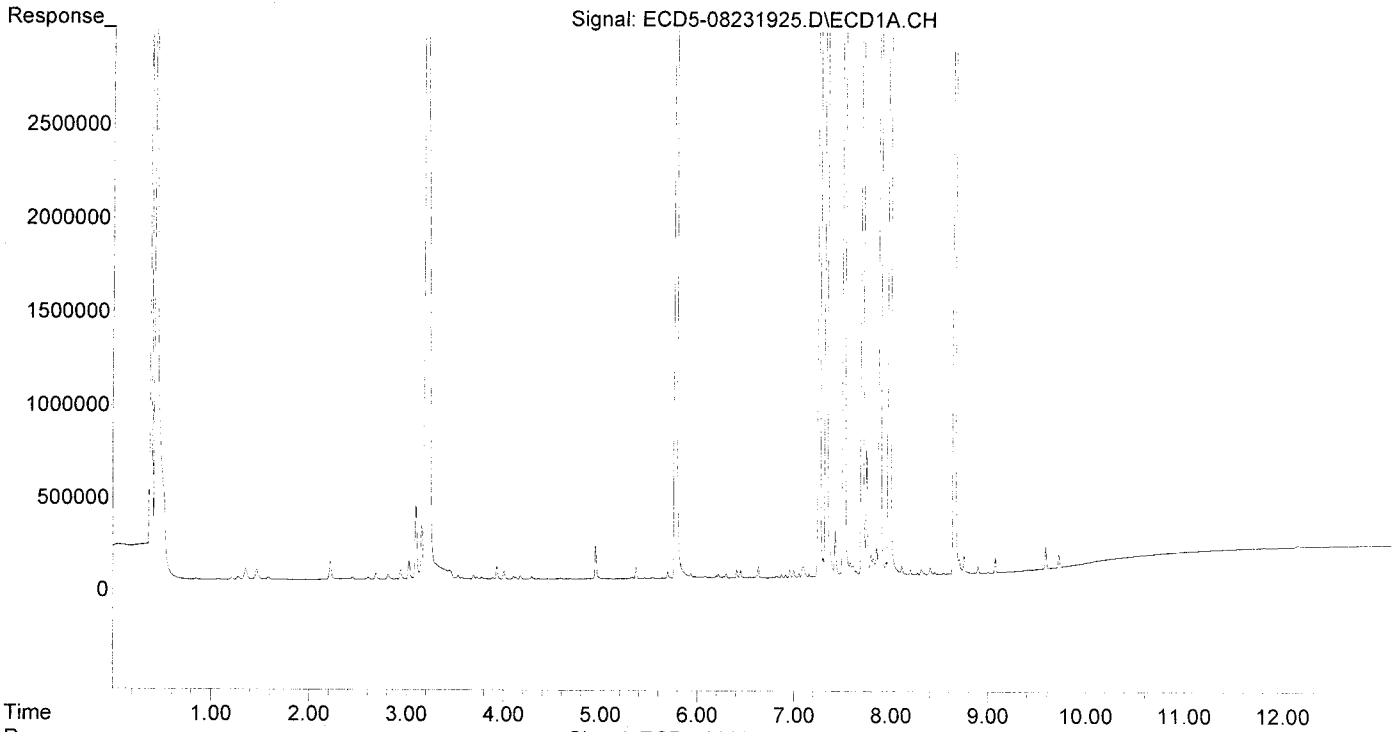
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	3.199	3.689	34166533	75988565	229.227	241.683
24) Hexachlor...	5.774	6.454	34073459	66261966	277.392	295.553
25) Oxychlordane	7.258	7.920	32032634	58736982	246.986	279.071
26) 2,4'-DDE	7.331	8.122	24819199	44504592	264.121	285.245
27) trans-Non...	7.514	8.194	35027918	63083636	244.348	274.645
28) 2,4'-DDD	7.703	8.494	21916962	39839303	262.217	292.269
29) 2,4'-DDT	7.887	8.719	23024956	39999231	224.761	221.024
30) cis-Nonac...	7.984	8.759	40046185	72455823	248.887	285.271
31) Mirex	8.652	9.679	23284997	38425530	237.885	266.989
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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231925.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 18:45  
Operator : MJB  
Sample : 9H23034-CALG  
Misc : A19E271, 9-42 200 ppb  
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:27:05 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231928.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 19:36  
 Operator : MJB  
 Sample : 9H23034-CALH  
 Misc : A19F232, CHLOR 50 ppb  
 ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:31:56 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:29:20 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJP 8/26/19*

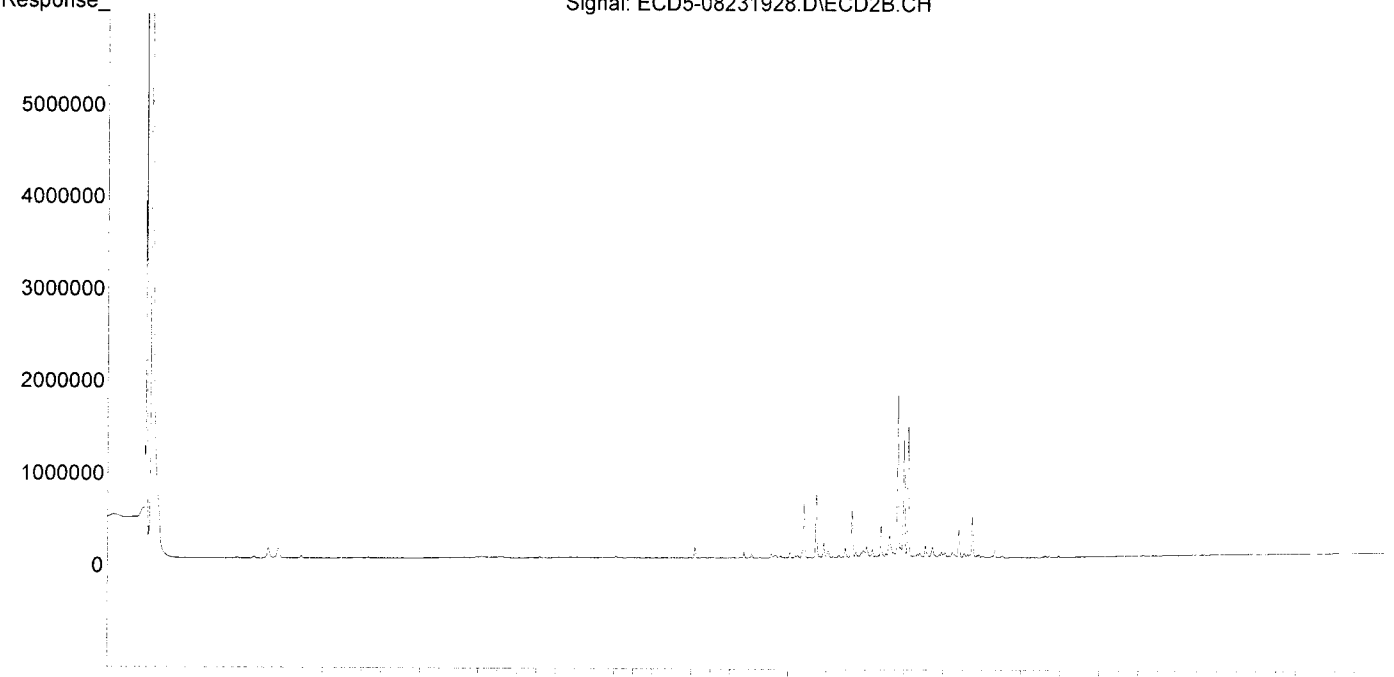
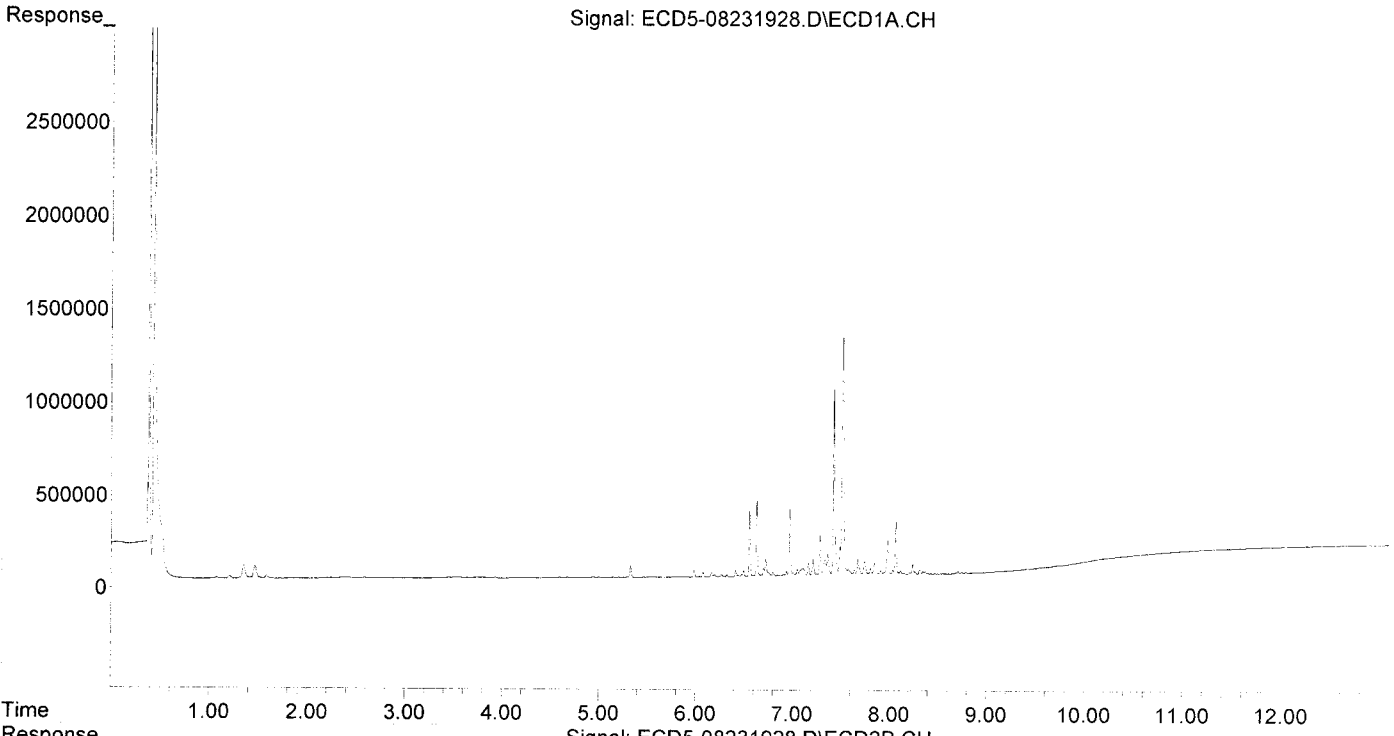
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.429	8.131	1009143	1754707	65.443	66.784
33) Chlordane...	7.521	8.237	1286655	1472400	62.192	67.669
34) Chlordane...	8.068	8.897	288087	439020	60.282	67.059
35) Chlordane...	3.446	0.000	5365	0	NoCal	N.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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231928.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 19:36  
Operator : MJB  
Sample : 9H23034-CALH  
Misc : A19F232, CHLOR 50 ppb  
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:31:56 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:29:20 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231929.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 19:54  
 Operator : MJB  
 Sample : 9H23034-CALI  
 Misc : A19F233, CHLOR 100 ppb  
 ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:32:31 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:29:20 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB  
8/26/19*

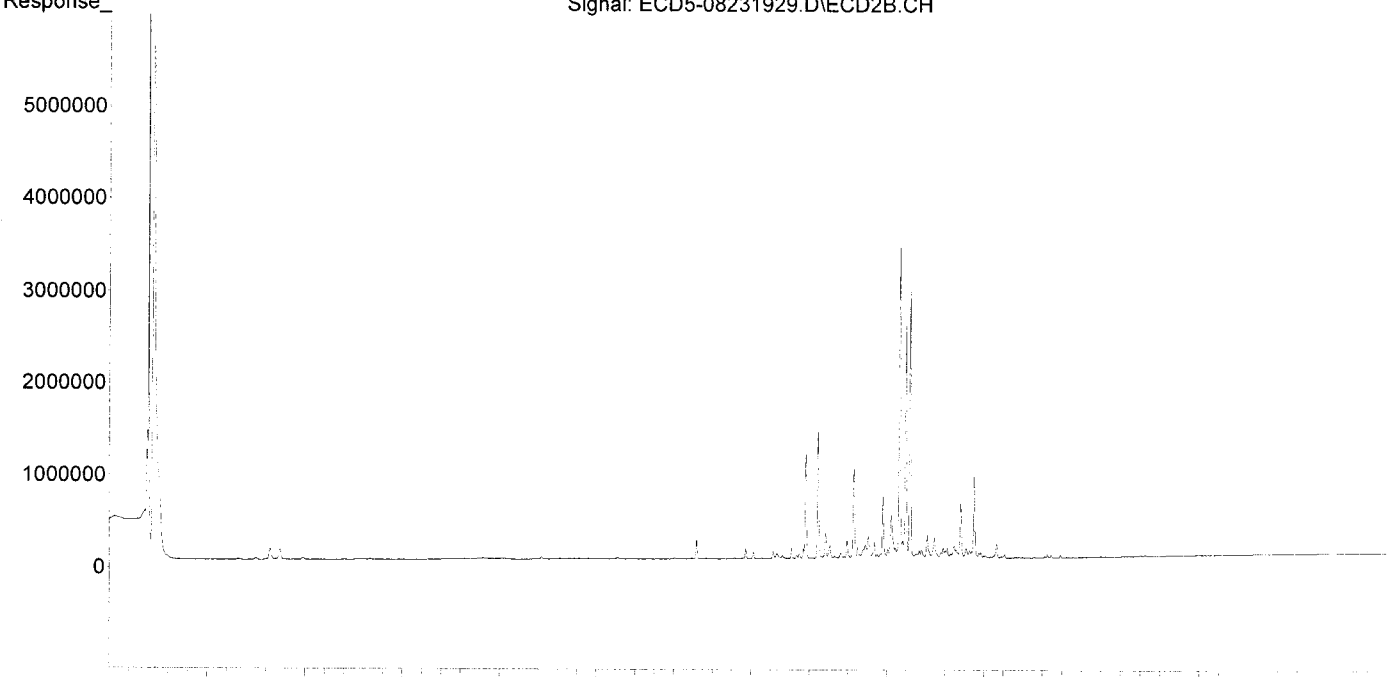
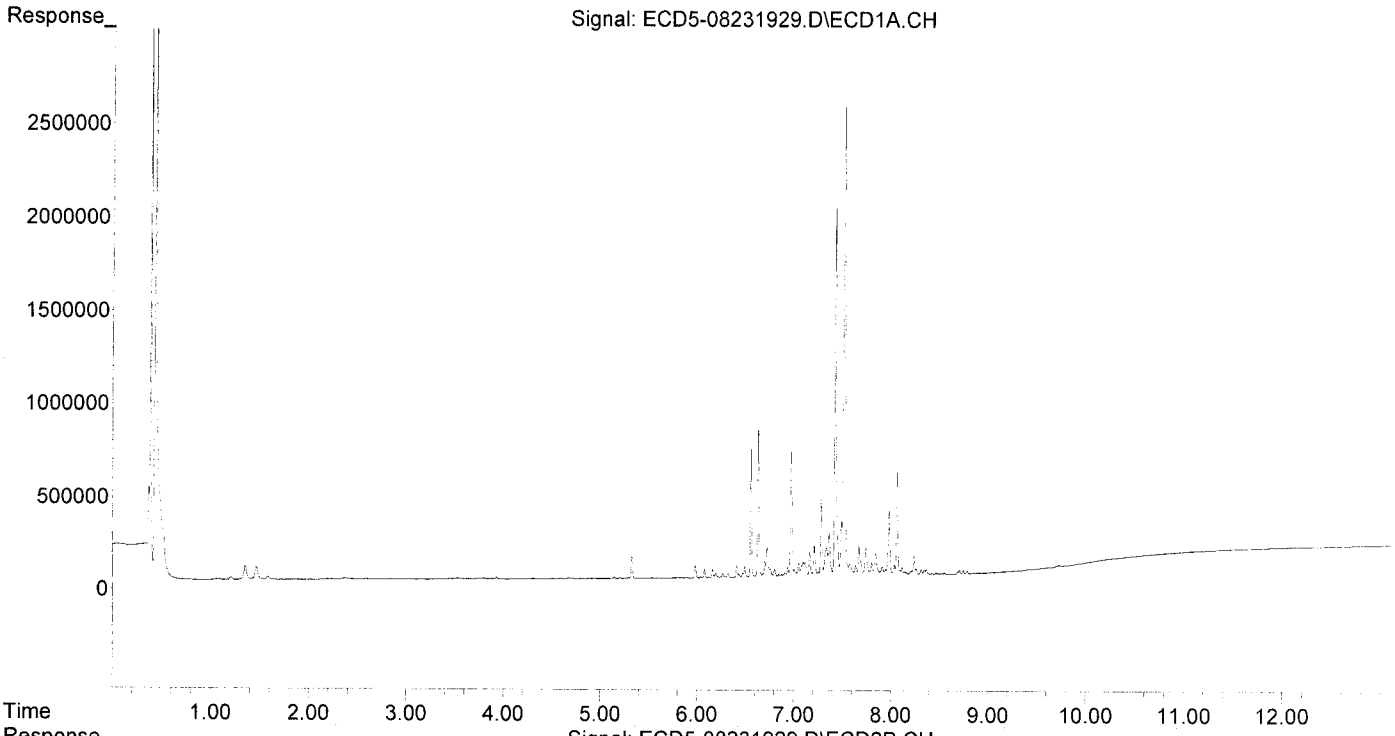
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.429	8.130	1978897	3378388	128.331	127.866
33) Chlordane...	7.521	8.238	2519520	2905941	121.784	133.934
34) Chlordane...	8.068	8.898	548196	874465	114.710	133.920
35) Chlordane...	3.446	0.000	4938	0	NoCal	N.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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231929.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 19:54  
Operator : MJB  
Sample : 9H23034-CALI  
Misc : A19F233, CHLOR 100 ppb  
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:32:31 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:29:20 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231930.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 20:11  
 Operator : MJB  
 Sample : 9H23034-CALJ  
 Misc : A19F234, CHLOR 200 ppb  
 ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:33:08 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:29:20 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

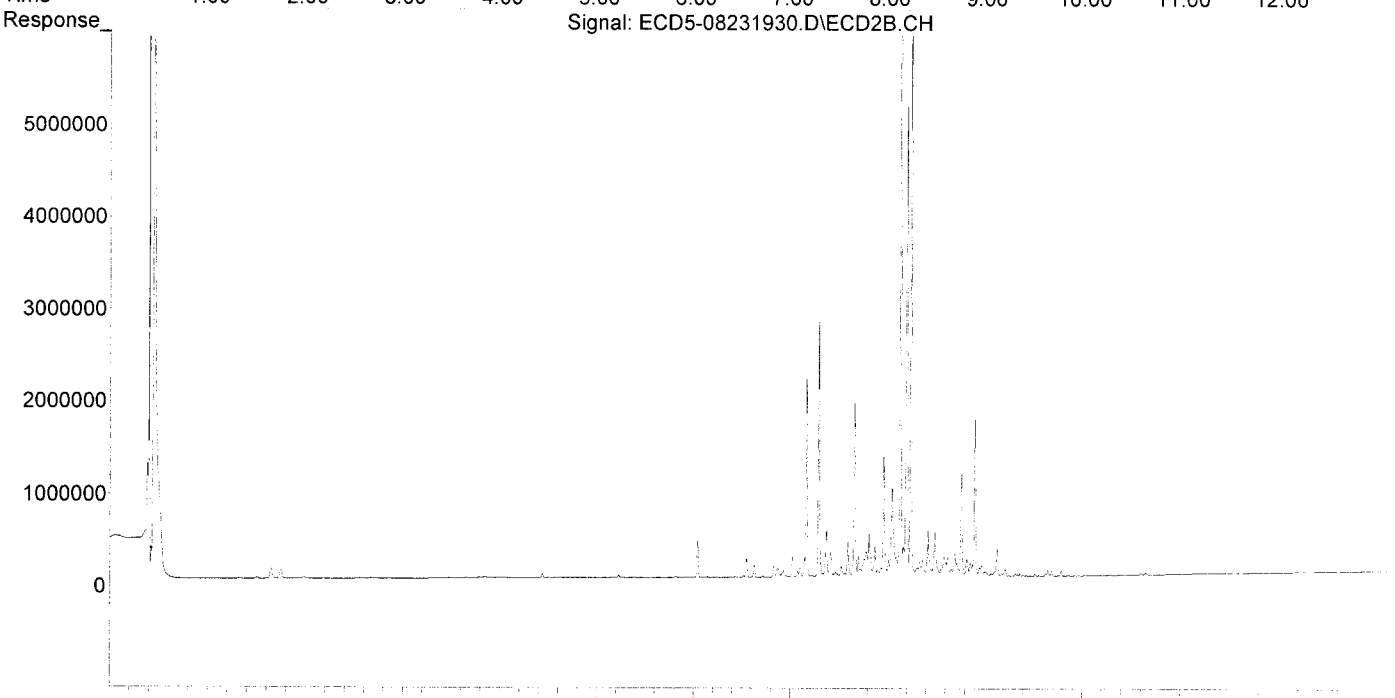
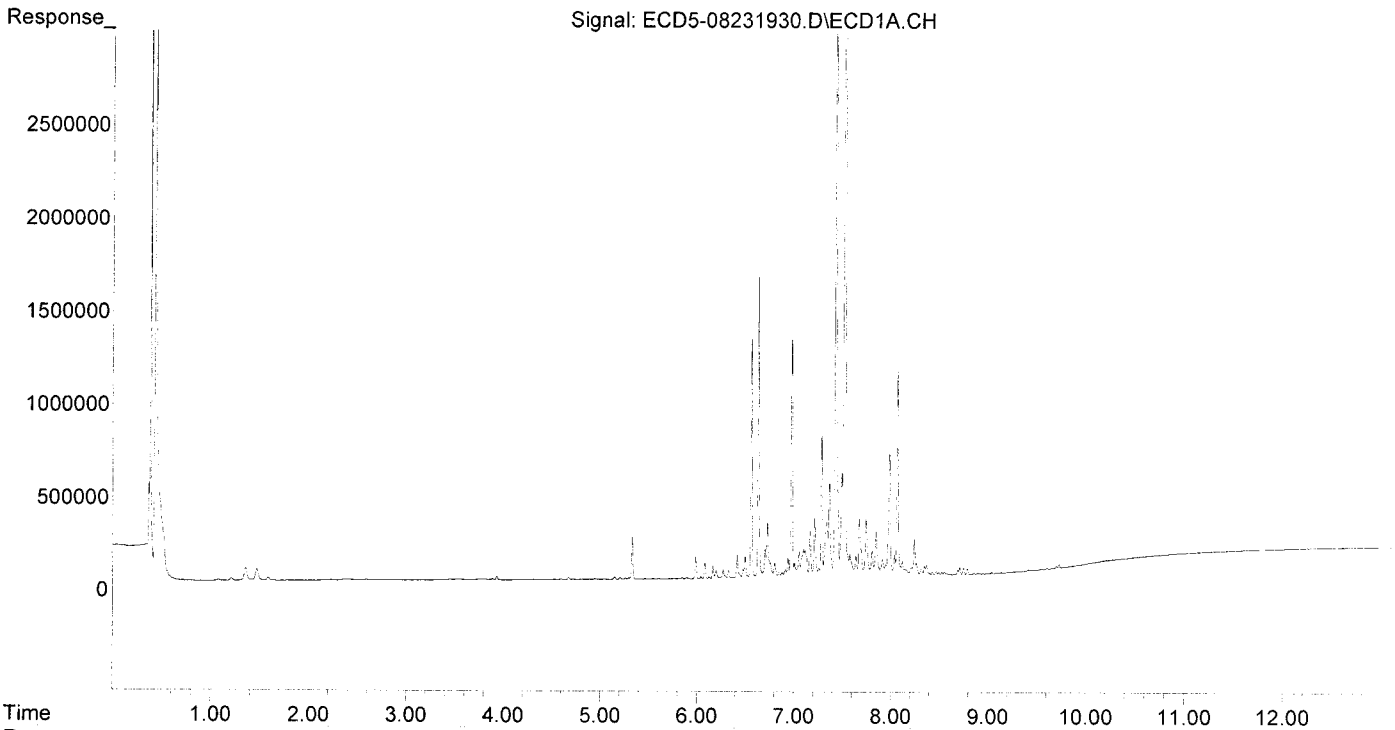
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.429	8.131	3849299	6751197	249.627	251.318
33) Chlordane...	7.522	8.239	4906320	5883615	237.153	267.927
34) Chlordane...	8.069	8.898	1101677	1731727	230.526	261.800
35) Chlordane...	3.448	0.000	4503	0	NoCal	N.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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231930.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 20:11  
Operator : MJB  
Sample : 9H23034-CALJ  
Misc : A19F234, CHLOR 200 ppb  
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:33:08 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:29:20 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231931.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 20:28  
 Operator : MJB  
 Sample : 9H23034-CALK  
 Misc : A19F235, CHLOR 500 ppb  
 ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:28:33 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
4/26/19

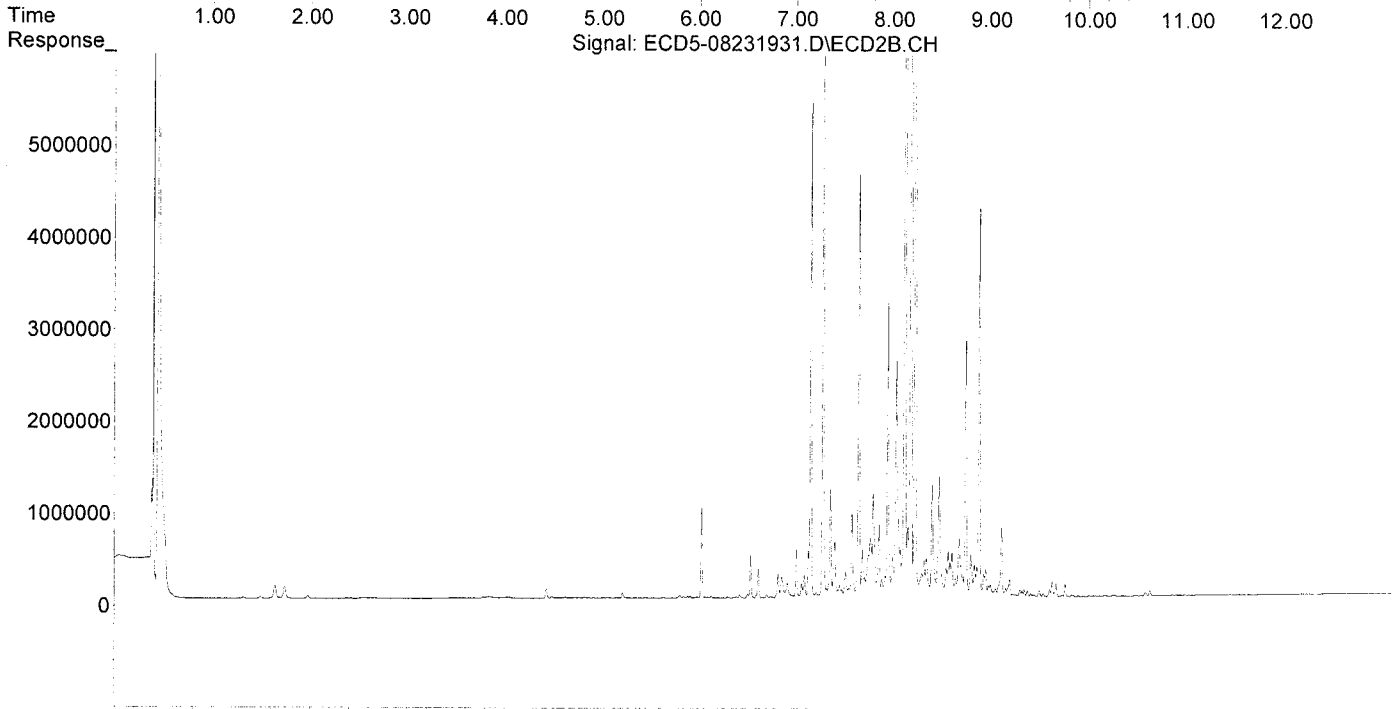
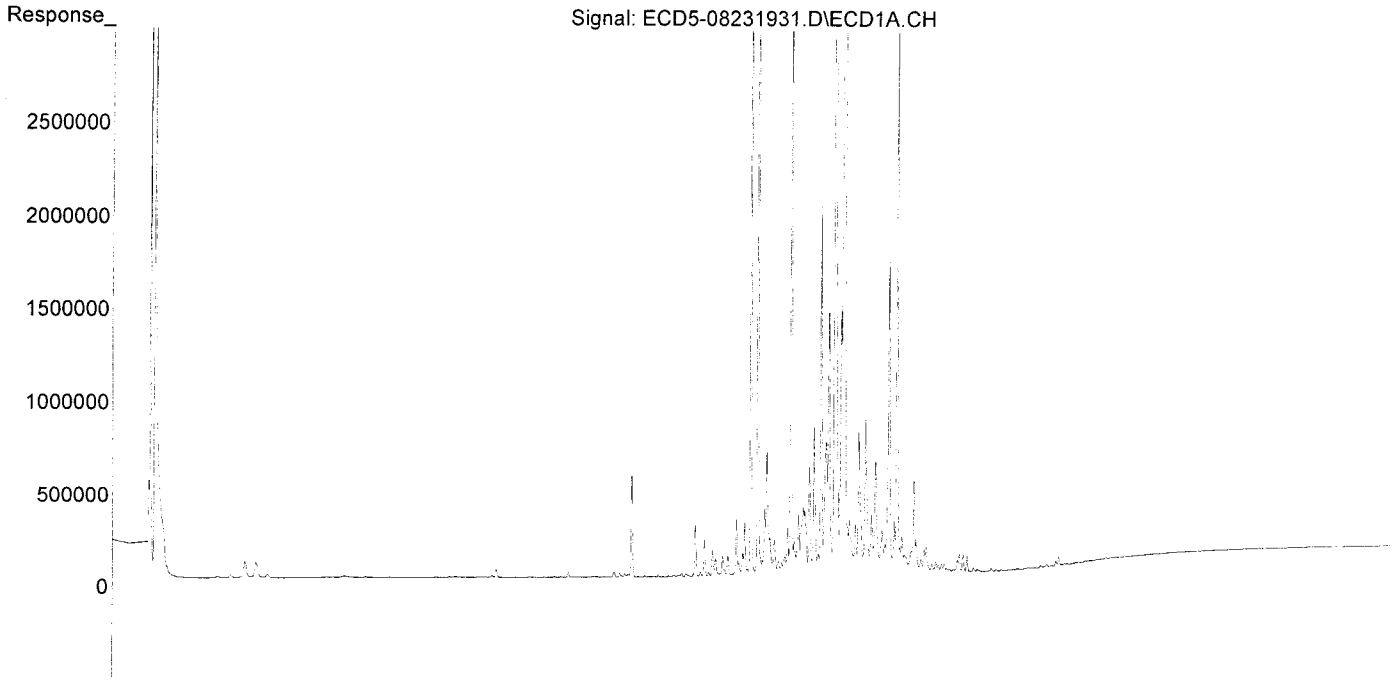
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.427	8.129	9628671	17830433	624.419	629.093
33) Chlordane...	7.520	8.237	12176524	14812273	588.567	644.287
34) Chlordane...	8.067	8.896	2921278	4271709	611.277	615.748
35) Chlordane...	3.447	0.000	4056	0	NoCal	N.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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231931.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 20:28  
Operator : MJB  
Sample : 9H23034-CALK  
Misc : A19F235, CHLOR 500 ppb  
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:28:33 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231932.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 20:45  
 Operator : MJB  
 Sample : 9H23034-CALL  
 Misc : A19F236, CHLOR 1000 ppb  
 ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:33:36 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:22:42 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

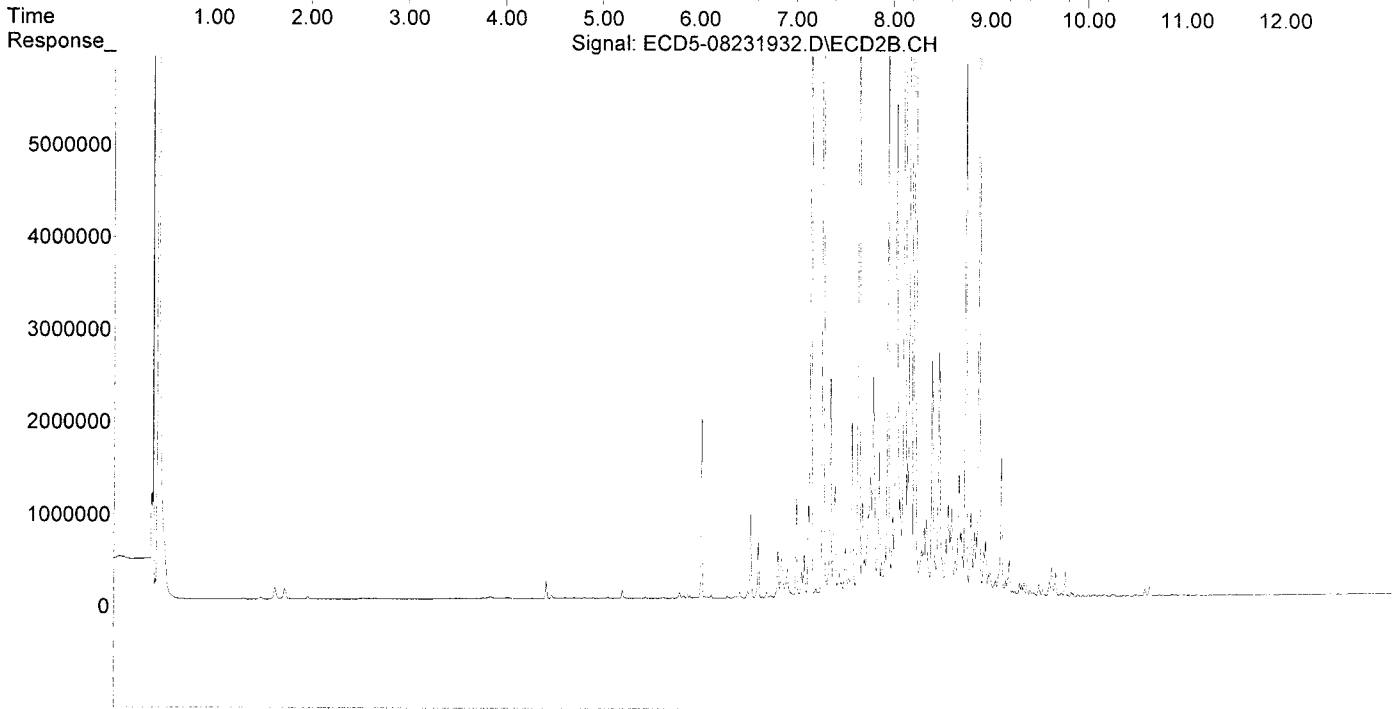
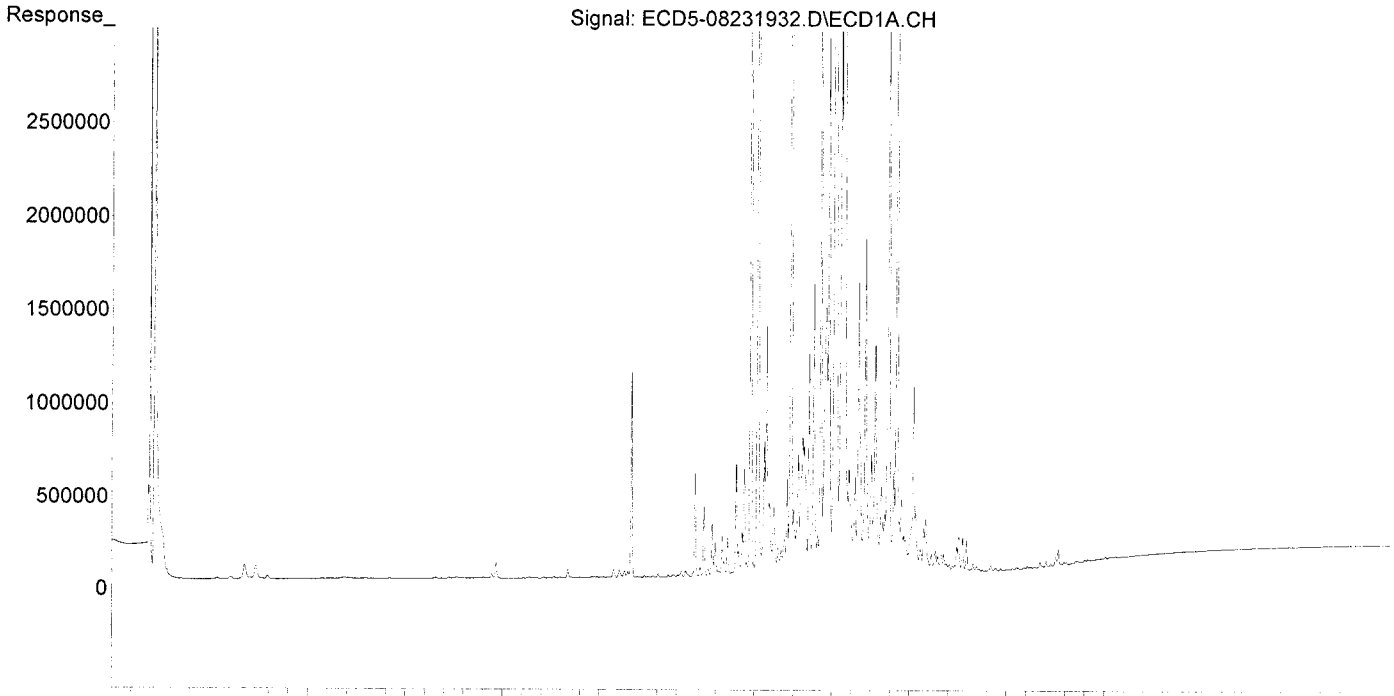
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.426	8.130	19643766	37966746	1273.898	1234.450
33) Chlordane...	7.519	8.237	25083239	31493677	1212.428	1269.749
34) Chlordane...	8.067	8.897	5987927	9358900	1252.974	1240.988
35) Chlordane...	3.447	0.000	4825	0	NoCal	N.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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231932.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 20:45  
Operator : MJB  
Sample : 9H23034-CALL  
Misc : A19F236, CHLOR 1000 ppb  
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:33:36 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:22:42 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231933.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 21:02  
 Operator : MJB  
 Sample : 9H23034-CALM  
 Misc : A19F231, CHLOR 2000 ppb  
 ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:34:12 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:29:20 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB 8/26/19

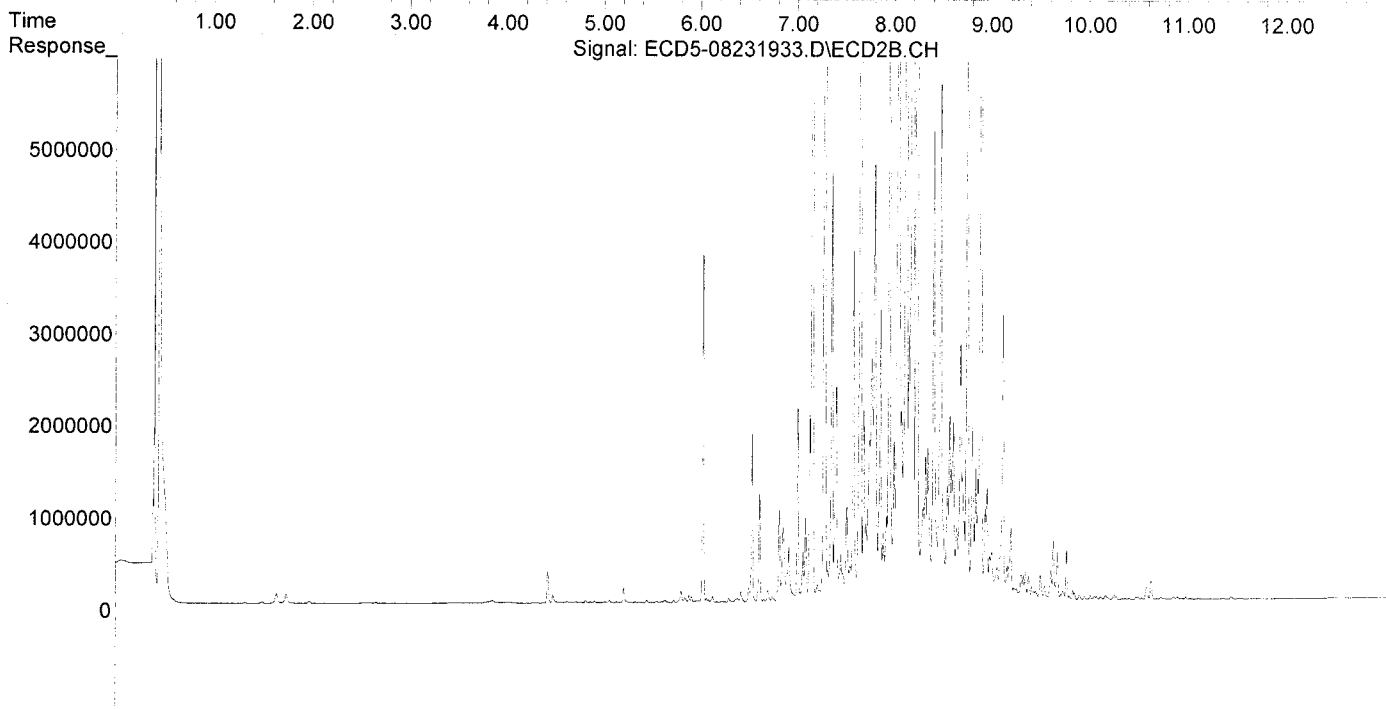
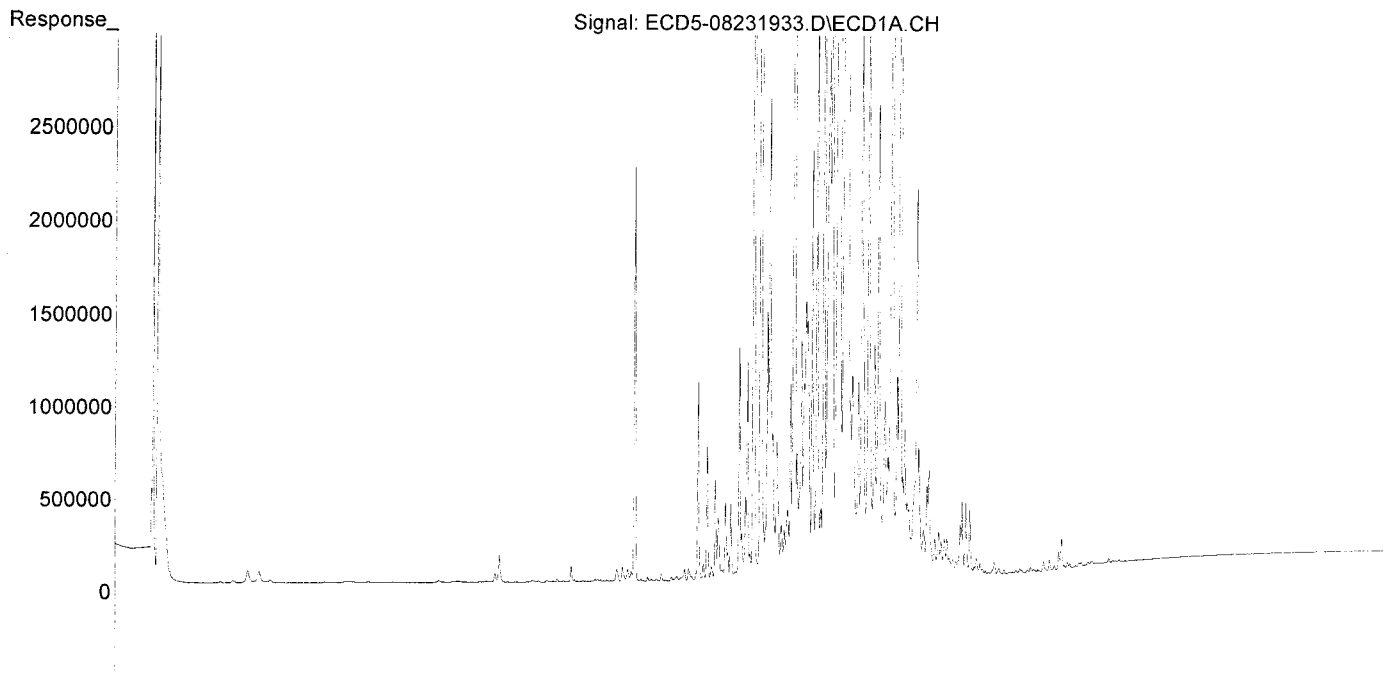
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.426	8.130	40036500	81691713	2596.366	2326.014
33) Chlordane...	7.519	8.238	50979142	66281388	2464.138	2365.956
34) Chlordane...	8.067	8.897	12208306	19418517	2554.588	2271.661
35) Chlordane...	3.449	0.000	4939	0	NoCal	N.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 > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231933.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:02  
Operator : MJB  
Sample : 9H23034-CALM  
Misc : A19F231, CHLOR 2000 ppb  
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:34:12 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:29:20 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231936.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 21:54  
 Operator : MJB  
 Sample : 9H23034-CALN  
 Misc : A19D122, TOX 50 ppb  
 ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:37:48 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:36:51 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

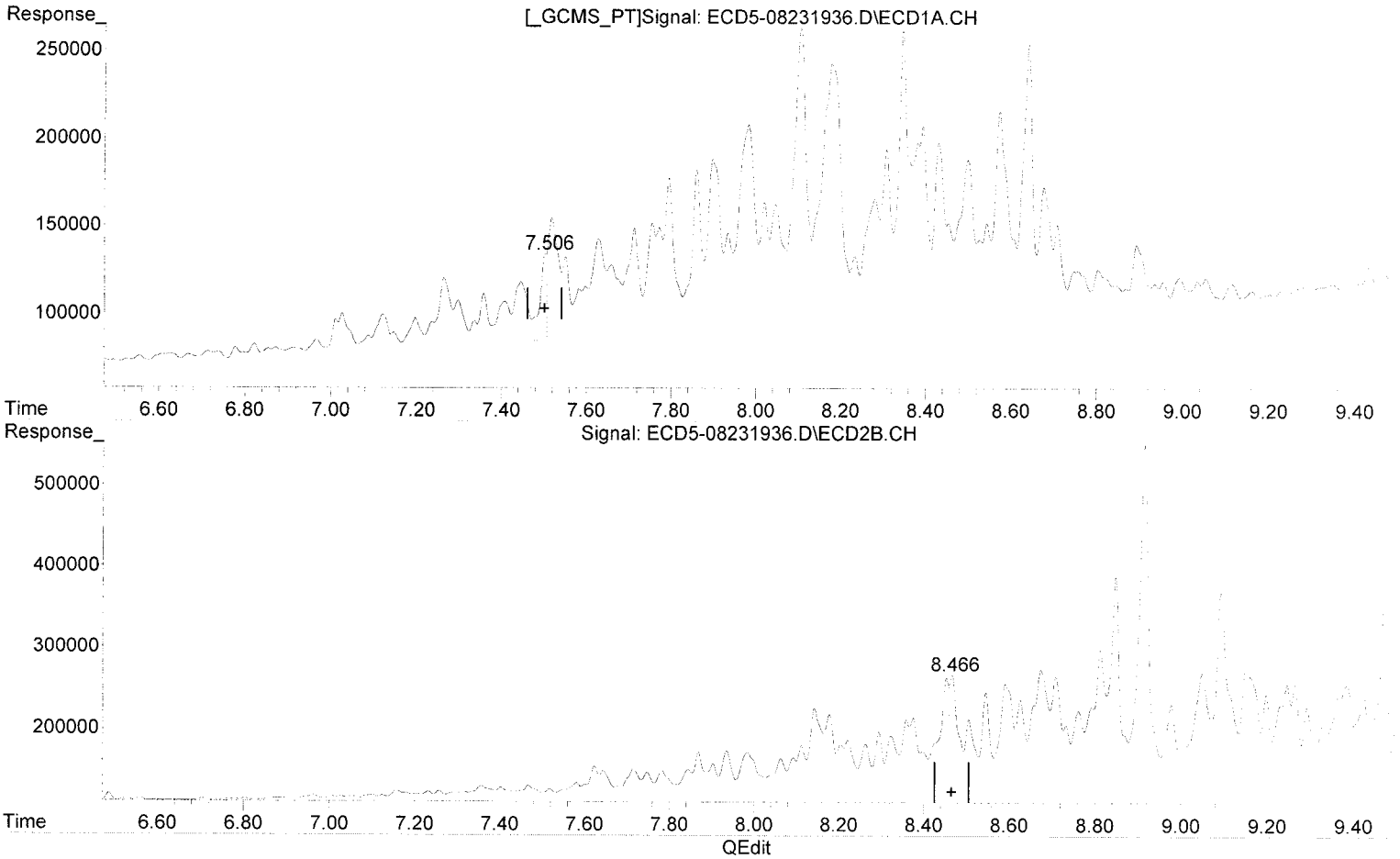
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	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...	7.506	8.466	49250	136848	69.167m	65.864
37) Toxaphene...	7.794	8.813	88321	164706	67.251	67.260
38) Toxaphene...	8.105	8.847	169381	254833	62.397	67.028
39) Toxaphene...	8.346	8.915	164317	416348	64.716	65.275
40) Toxaphene...	8.573	9.091	114720	233185	60.554	65.984
41) Toxaphene...	8.641	9.470	153138	230922	57.297	70.513
42) Toxaphene...	3.449	0.000	4023	0	NoCal	N.D.
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231936.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:54  
Operator : MJB  
Sample : 9H23034-CALN  
Misc : A19D122, TOX 50 ppb  
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:37:09 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)  
7.506min 69.167 ng/mL(m)  
response 49250

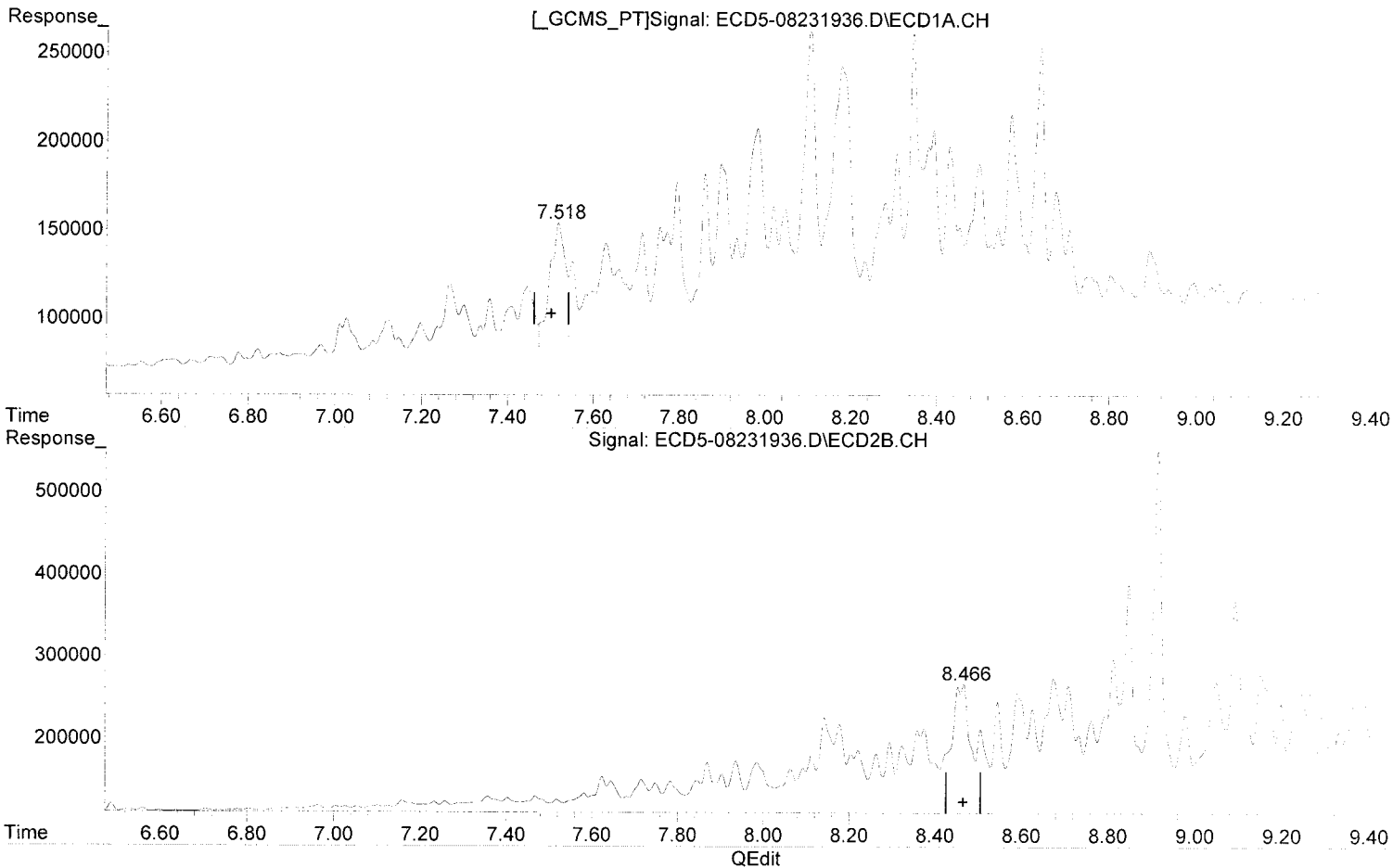
*MJB 8/26/19*

(36) Toxaphene (1) #2  
8.466min 65.864 ng/mL  
response 136848

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231936.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:54  
Operator : MJB  
Sample : 9H23034-CALN  
Misc : A19D122, TOX 50 ppb  
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:37:09 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



~~(36) Toxaphene (1)  
7.518min 96.999 ng/mL  
response 69068~~

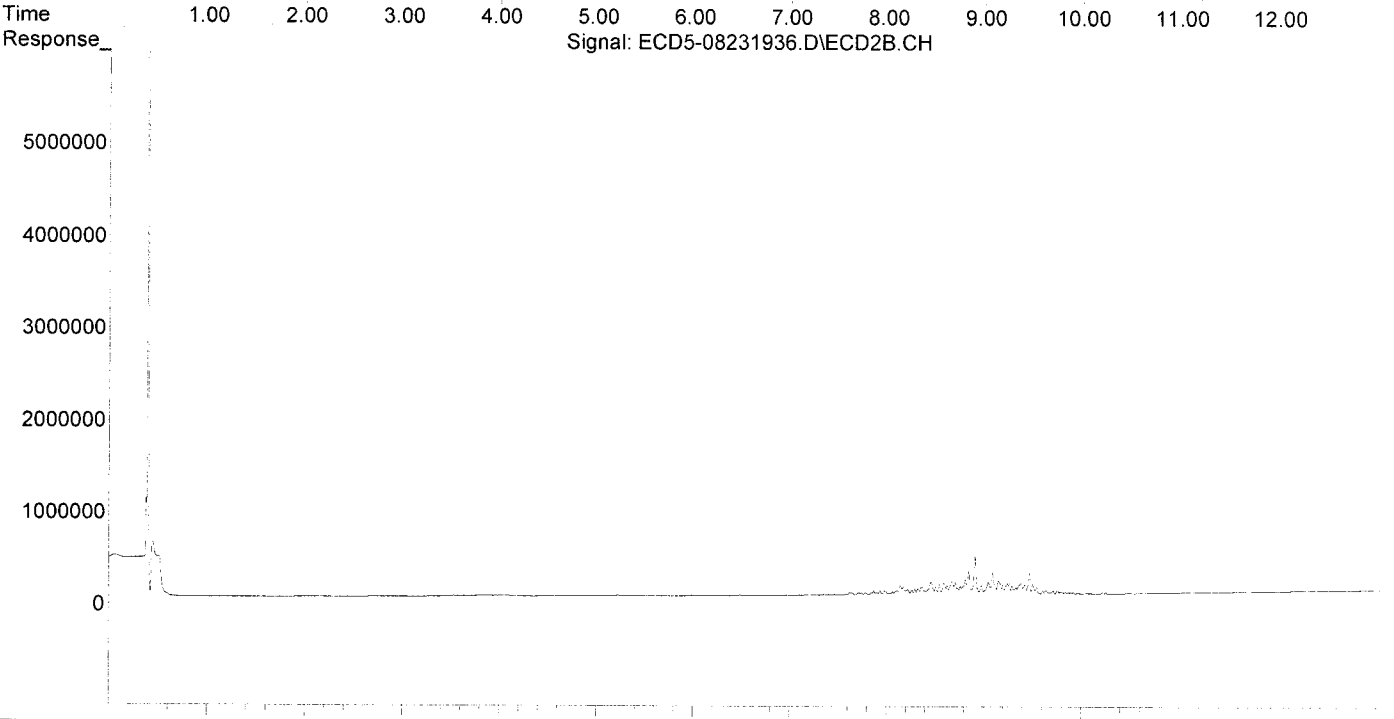
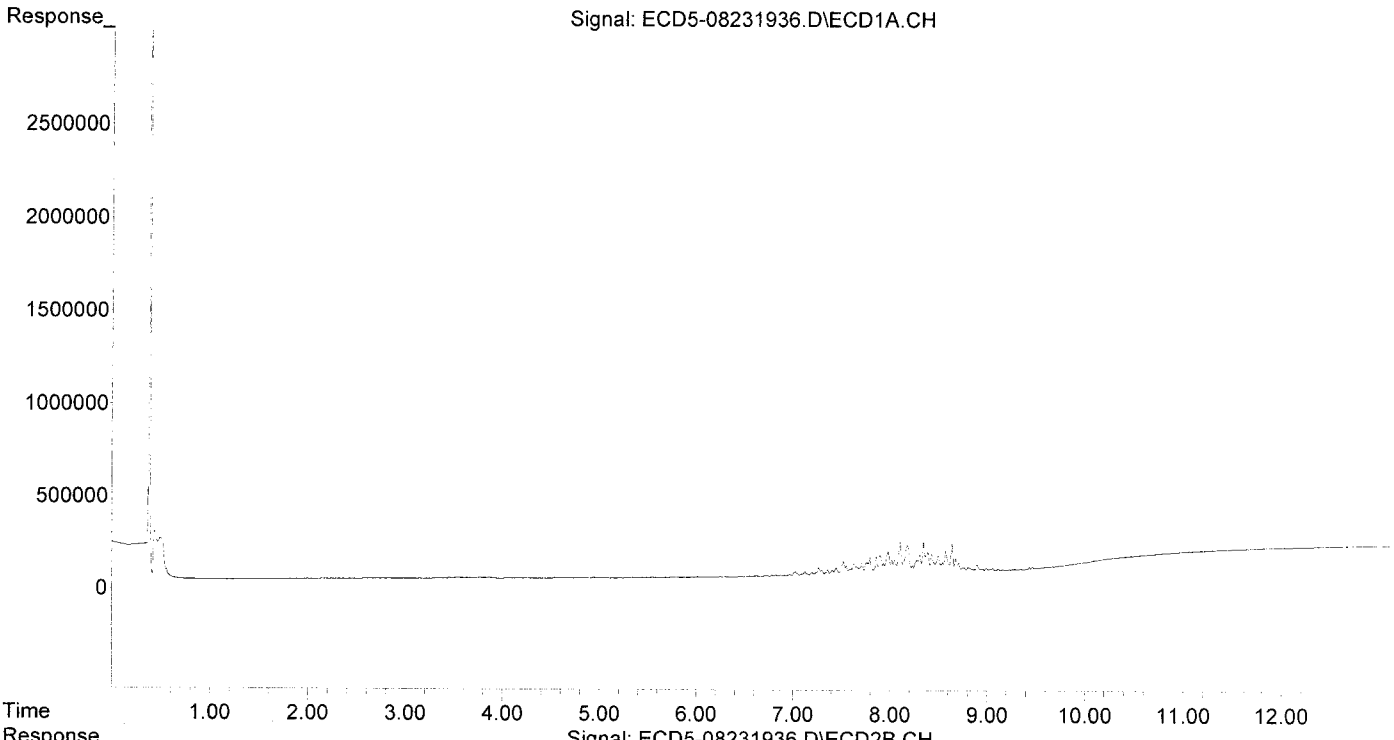
*MJB 6/26/19*

(36) Toxaphene (1) #2  
8.466min 65.864 ng/mL  
response 136848

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231936.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 21:54  
Operator : MJB  
Sample : 9H23034-CALN  
Misc : A19D122, TOX 50 ppb  
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:37:48 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231937.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 22:11  
 Operator : MJB  
 Sample : 9H23034-CALO  
 Misc : A19D123, TOX 100 ppb  
 ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:38:53 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:36:51 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

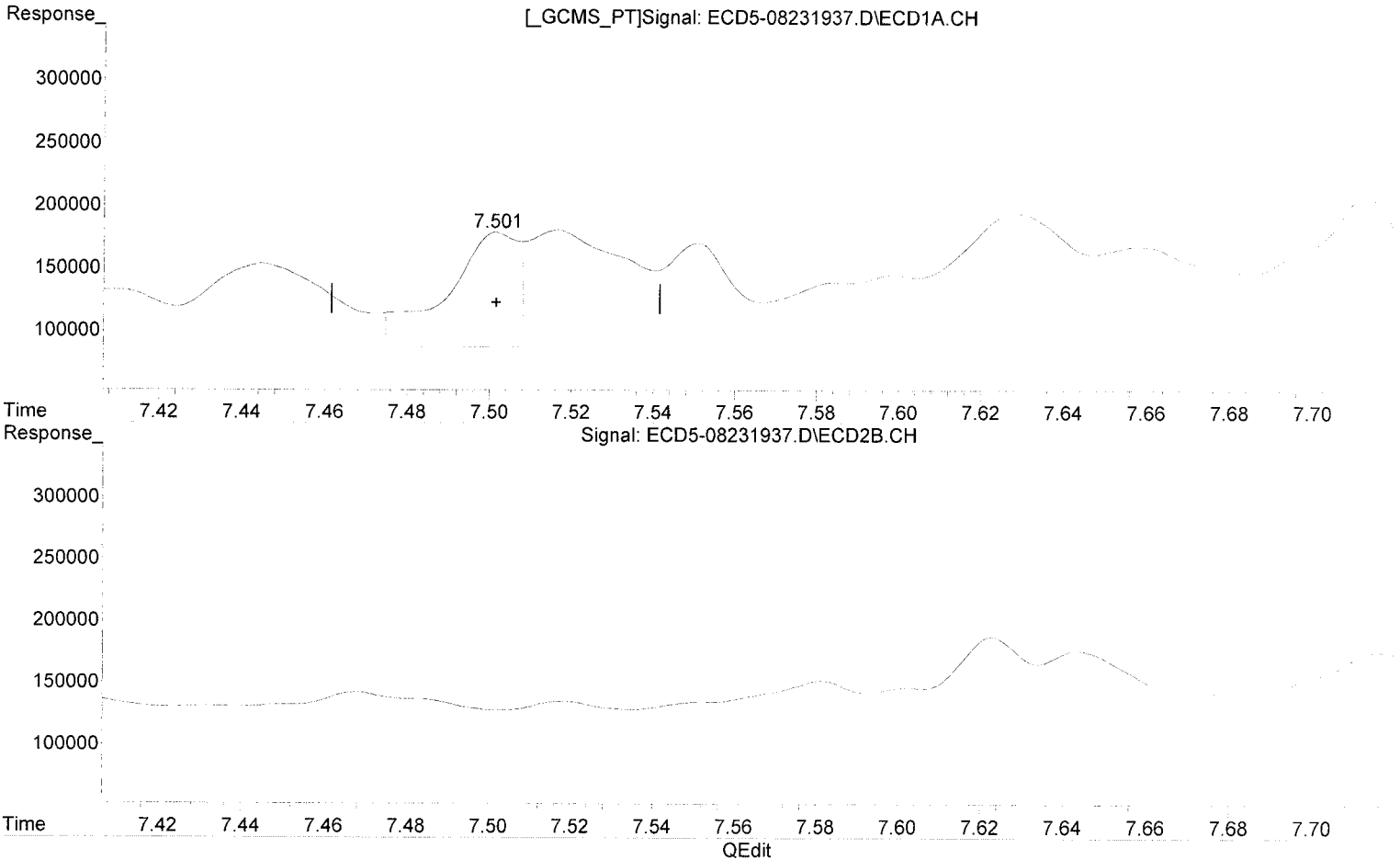
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.501	8.466	91576	267534	128.609m	128.761
37) Toxaphene...	7.795	8.813	166085	324070	126.462	132.338
38) Toxaphene...	8.106	8.848	332842	494430	122.613	130.048
39) Toxaphene...	8.346	8.915	320313	811948	126.154	127.297
40) Toxaphene...	8.574	9.091	228960	452209	120.854	127.962
41) Toxaphene...	8.641	9.471	302577	452485	113.210	135.226
42) Toxaphene...	3.450	0.000	3536	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:11  
Operator : MJB  
Sample : 9H23034-CALO  
Misc : A19D123, TOX 100 ppb  
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:38:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)

7.501min 128.609 ng/mL  
response 91576

*MJB 8/26/19*

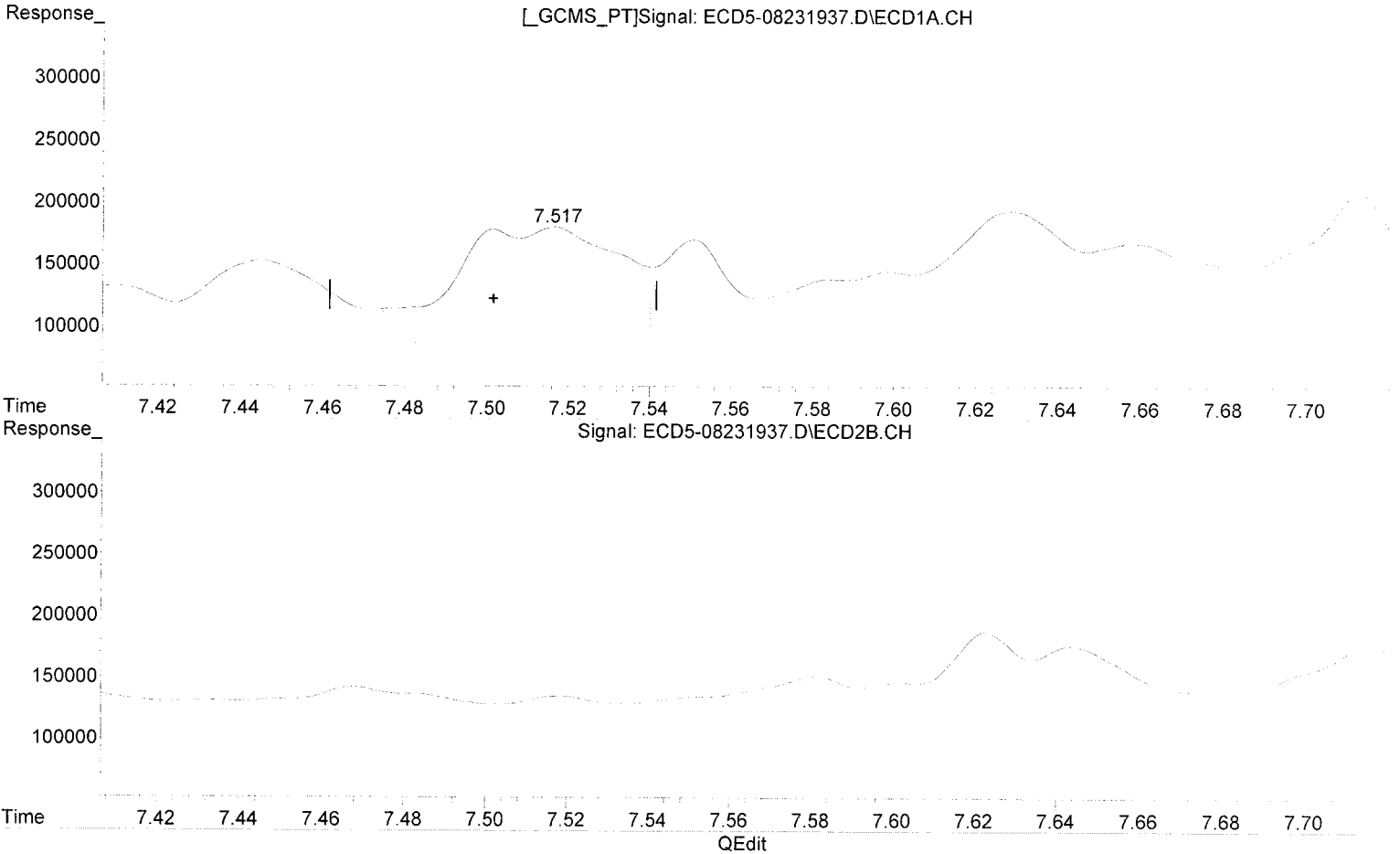
(36) Toxaphene (1) #2

8.466min 128.761 ng/mL  
response 267534

Quantitation Report (Qedit)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:11  
Operator : MJB  
Sample : 9H23034-CALO  
Misc : A19D123, TOX 100 ppb  
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:38:11 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



(36) Toxaphene (1)  
7.517min 130.814 ng/mL  
response 93146

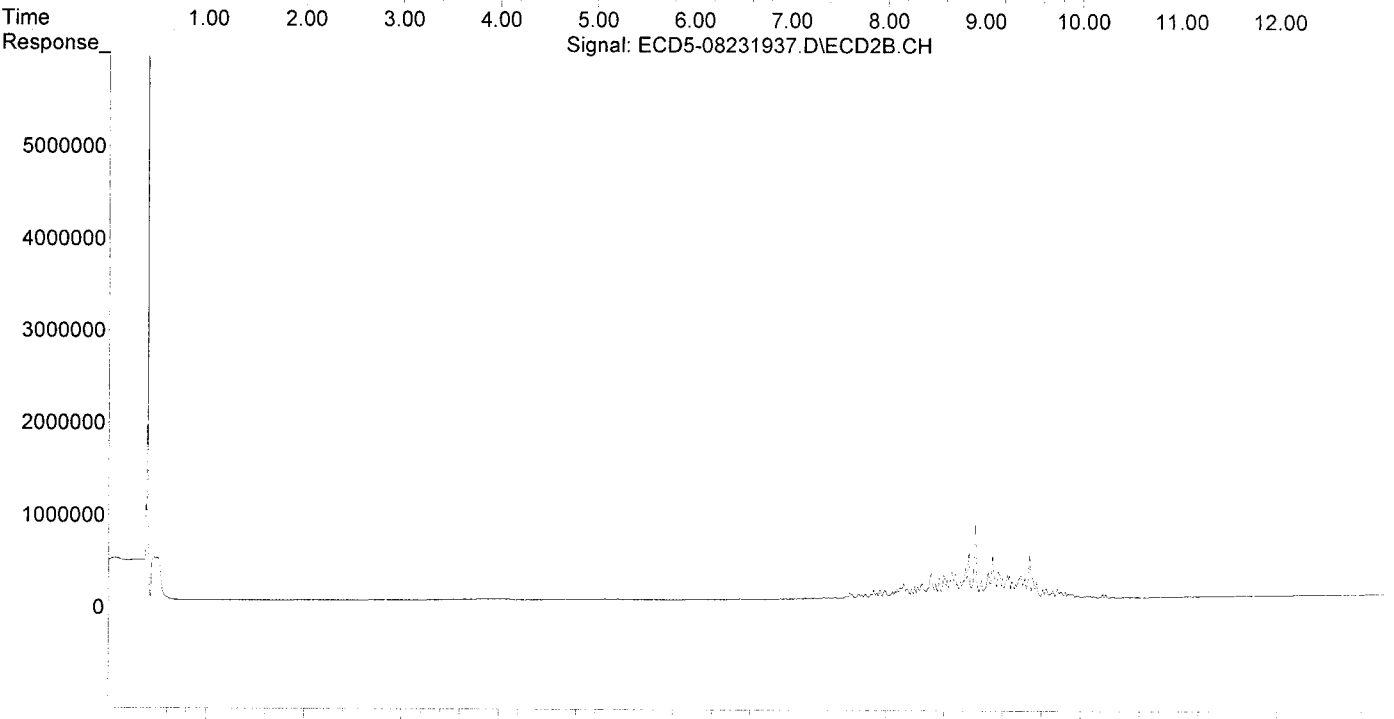
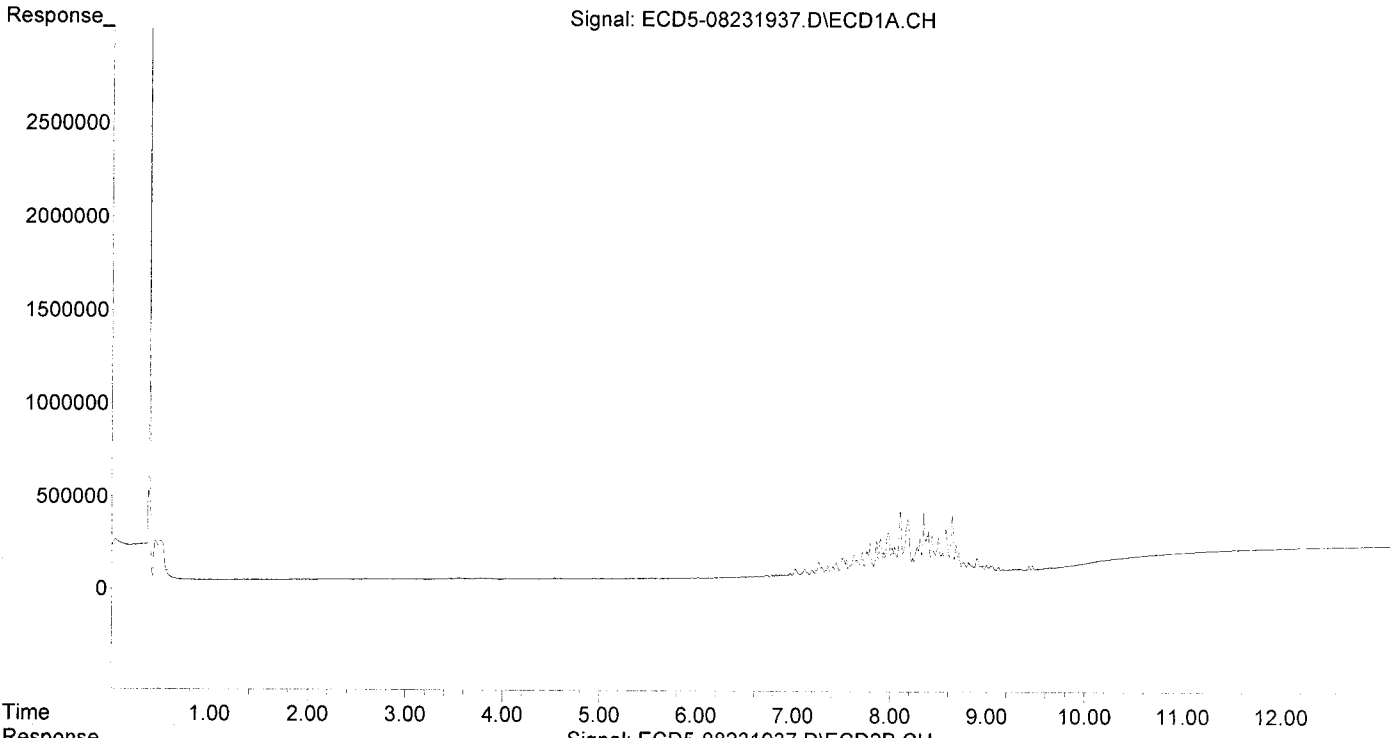
MJB 8/26/19

(36) Toxaphene (1) #2  
8.466min 128.761 ng/mL  
response 267534

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231937.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:11  
Operator : MJB  
Sample : 9H23034-CALO  
Misc : A19D123, TOX 100 ppb  
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:38:53 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231938.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 22:28  
 Operator : MJB  
 Sample : 9H23034-CALP  
 Misc : A19D124, TOX 200 ppb  
 ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:39:29 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:36:51 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

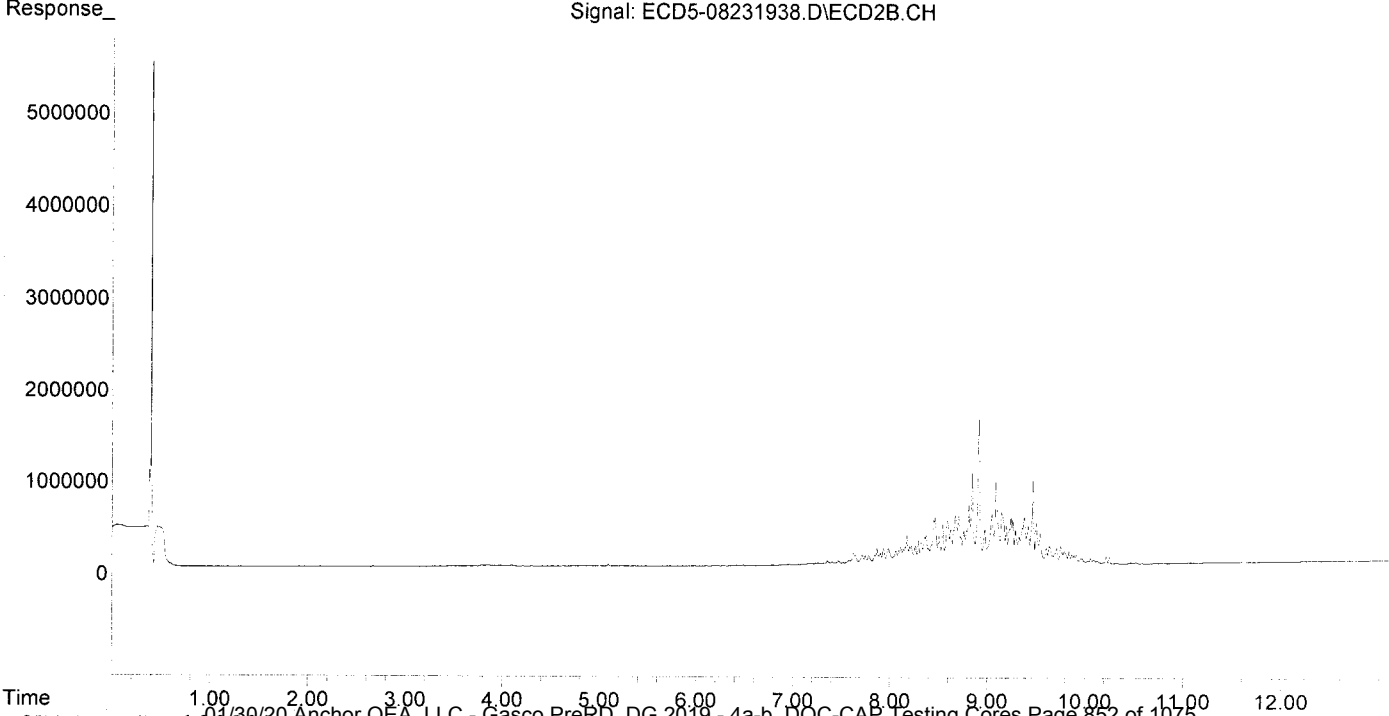
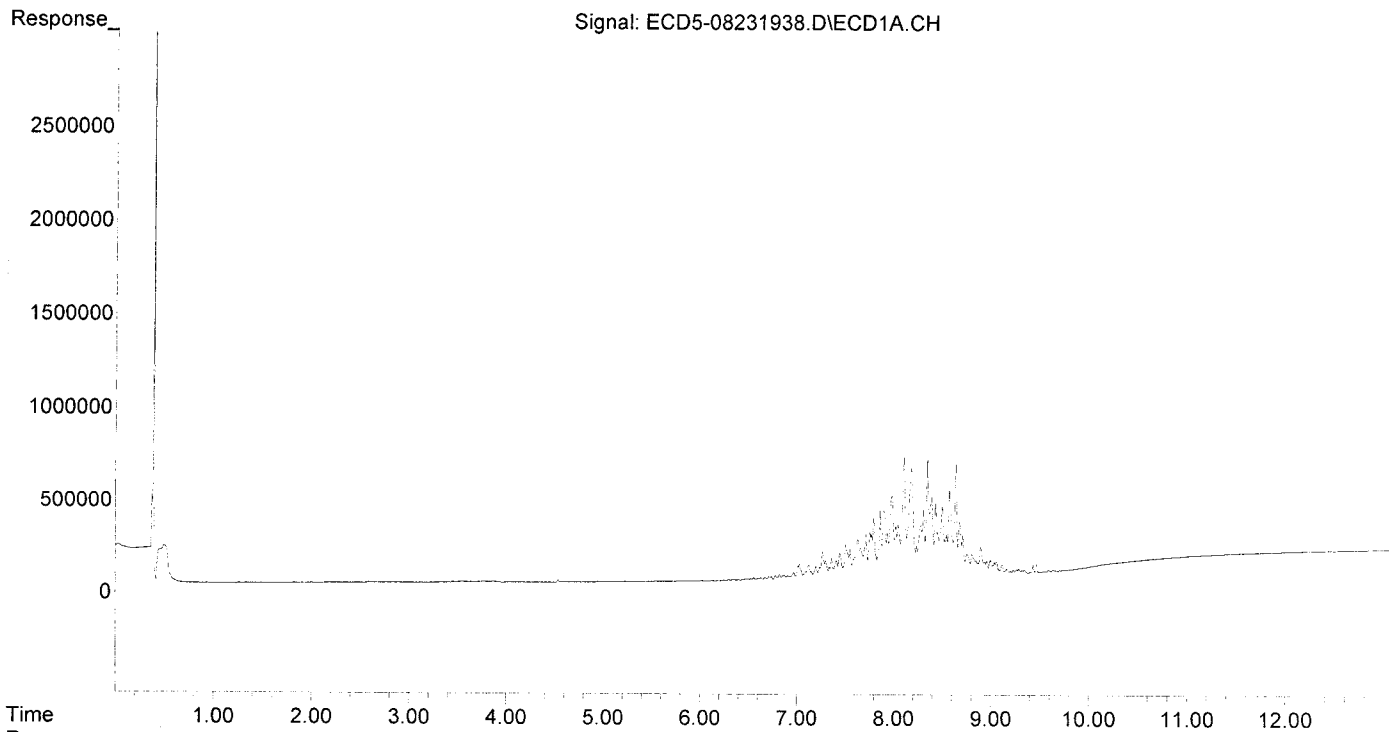
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.502	8.466	176047	508983	247.240	244.968
37) Toxaphene...	7.795	8.812	317587	645322	241.821	263.525
38) Toxaphene...	8.105	8.847	644464	995555	237.409	261.857
39) Toxaphene...	8.346	8.914	632351	1580436	249.049	247.779
40) Toxaphene...	8.574	9.090	454431	895397	239.867	253.371
41) Toxaphene...	8.640	9.469	597991	905244	223.740	263.952
42) Toxaphene...	3.451	0.000	3919	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231938.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:28  
Operator : MJB  
Sample : 9H23034-CALP  
Misc : A19D124, TOX 200 ppb  
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:39:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231939.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 22:45  
 Operator : MJB  
 Sample : 9H23034-CALQ  
 Misc : A19D125, TOX 500 ppb  
 ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:36:29 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualeCD5  
 QLast Update : Mon Aug 26 11:29:20 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

MJB  
8/26/19

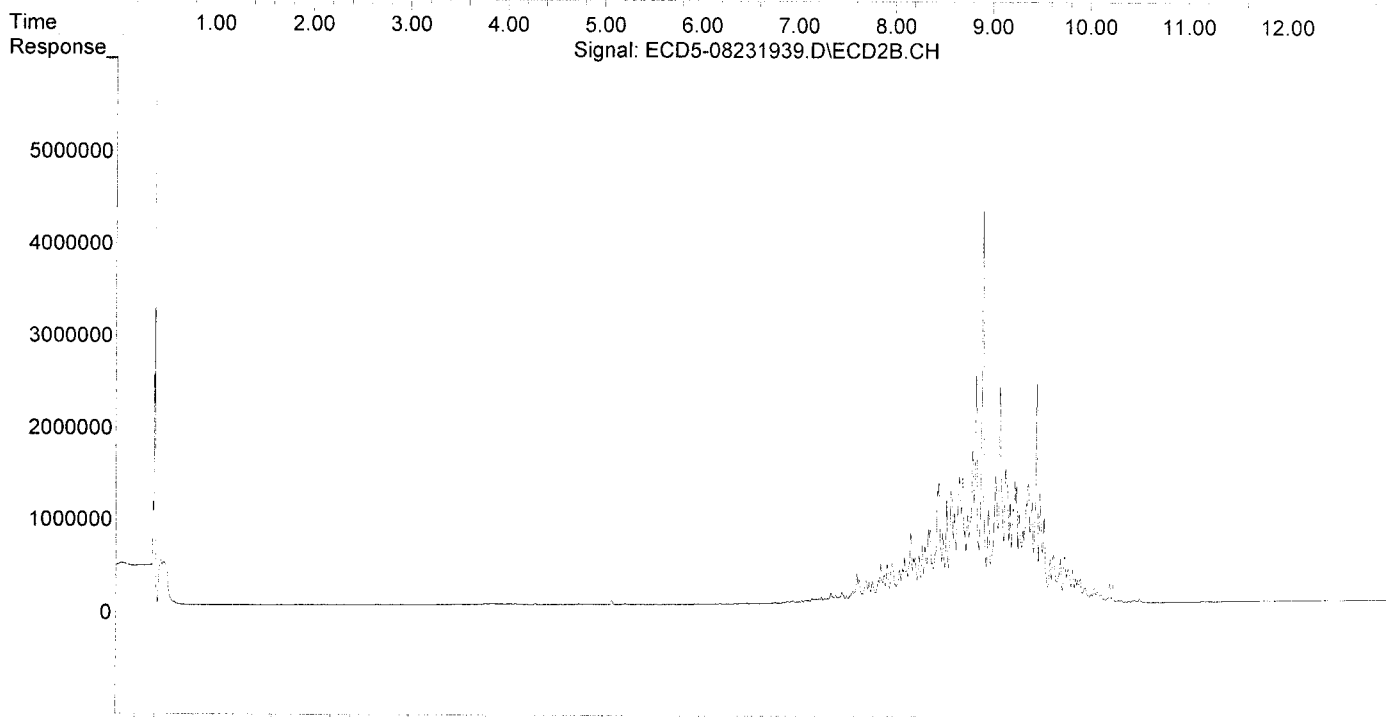
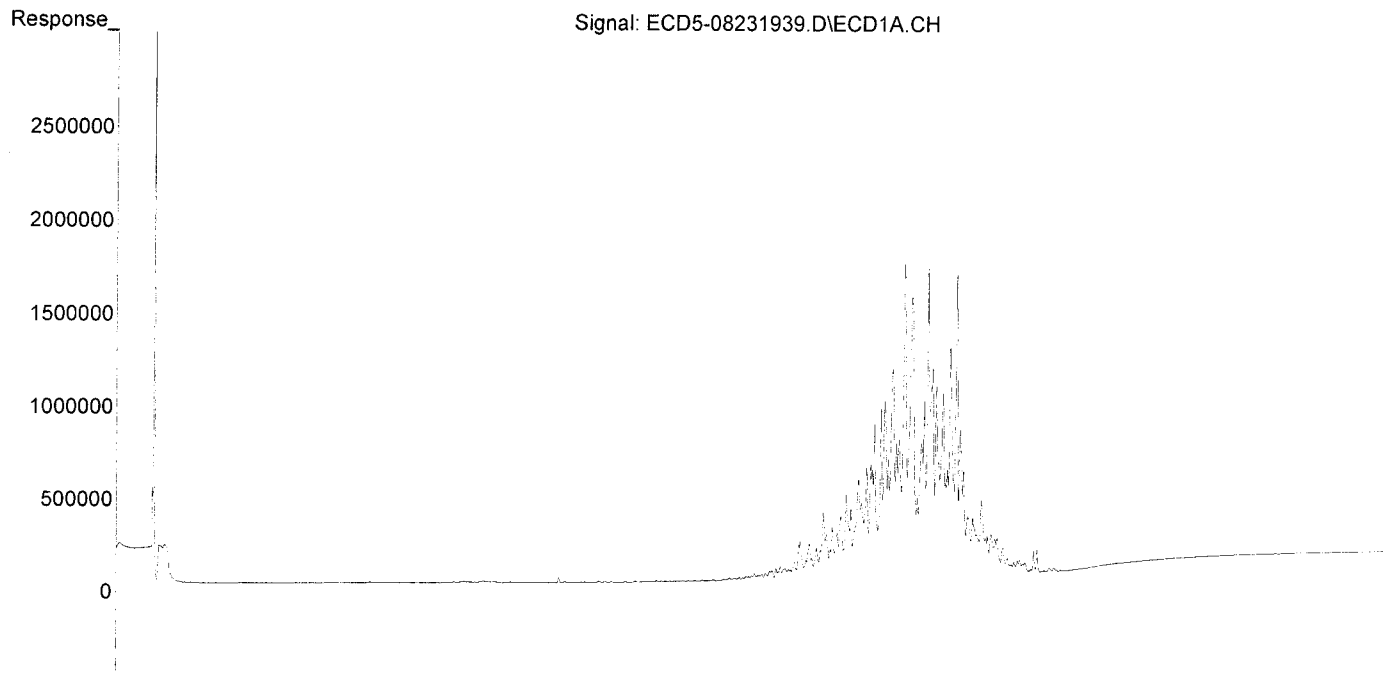
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.502	8.466	441826	1308994	620.497	630.004
37) Toxaphene...	7.794	8.812	819454	1647741	623.958	672.874
38) Toxaphene...	8.105	8.848	1677481	2475022	617.954	650.997
39) Toxaphene...	8.346	8.915	1649569	4252640	649.677	666.725
40) Toxaphene...	8.574	9.091	1221560	2340668	644.788	662.340
41) Toxaphene...	8.640	9.470	1623402	2369795	607.400	652.719
42) Toxaphene...	3.450	0.000	4132	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231939.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 22:45  
Operator : MJB  
Sample : 9H23034-CALQ  
Misc : A19D125, TOX 500 ppb  
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:36:29 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:29:20 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231940.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 23:03  
 Operator : MJB  
 Sample : 9H23034-CALR  
 Misc : A19D126, TOX 1000 ppb  
 ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:40:10 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:36:51 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB*  
*4/26/19*

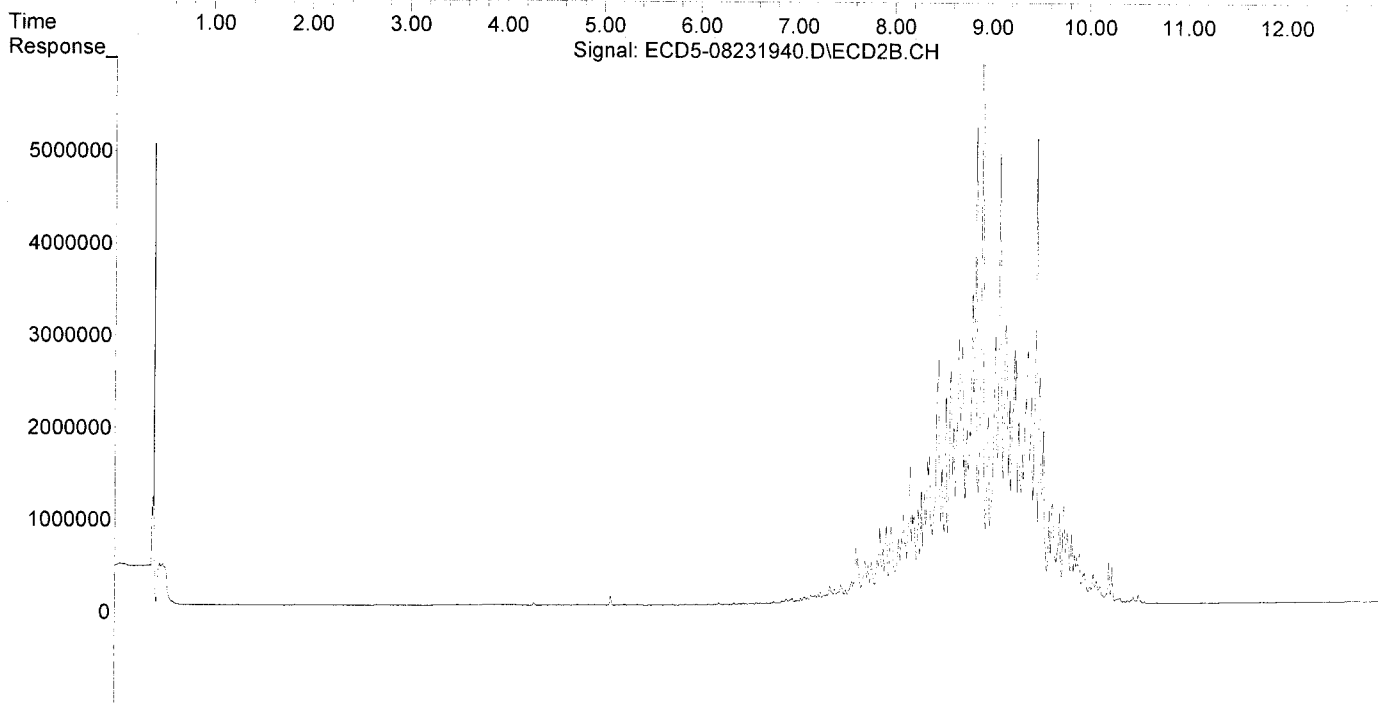
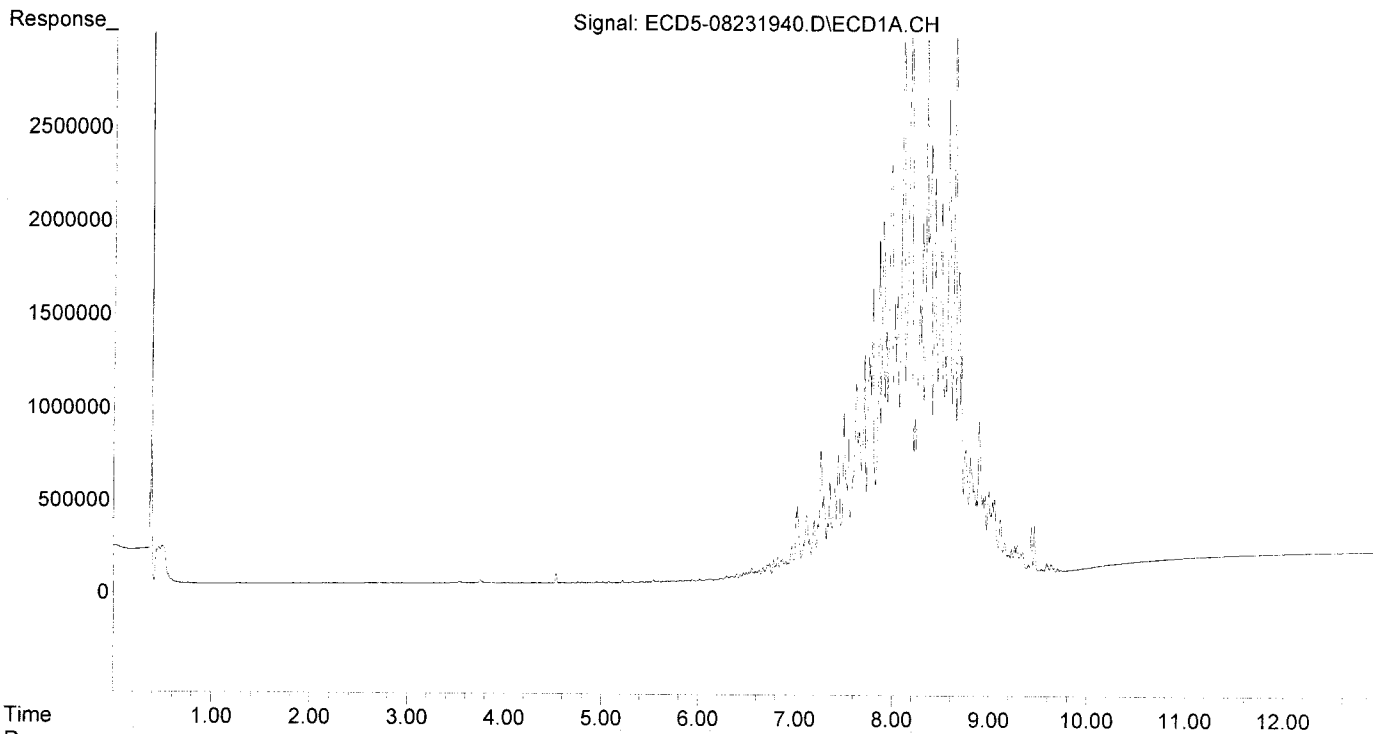
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.501	8.467	871889	2654886	1224.474	1277.768
37) Toxaphene...	7.793	8.813	1556013	3384036	1184.797	1381.910
38) Toxaphene...	8.105	8.848	3495877	5168269	1287.817	1359.392
39) Toxaphene...	8.345	8.915	3287014	8650068	1294.579	1356.150
40) Toxaphene...	8.573	9.091	2546293	4900430	1344.035	1386.677
41) Toxaphene...	8.640	9.470	3406737	5046645	1274.639	1281.306
42) Toxaphene...	3.451	0.000	2687	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231940.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 23:03  
Operator : MJB  
Sample : 9H23034-CALR  
Misc : A19D126, TOX 1000 ppb  
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:40:10 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped



Data Path : R:\data\2019-08\9H23034\  
 Data File : ECD5-08231941.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 23 Aug 2019 23:20  
 Operator : MJB  
 Sample : 9H23034-CALS  
 Misc : A19D121, TOX 2000 ppb  
 ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Aug 26 11:40:44 2019  
 Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
 Quant Title : Instrument: DualECD5  
 QLast Update : Mon Aug 26 11:36:51 2019  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

*MJB 8/26/19*

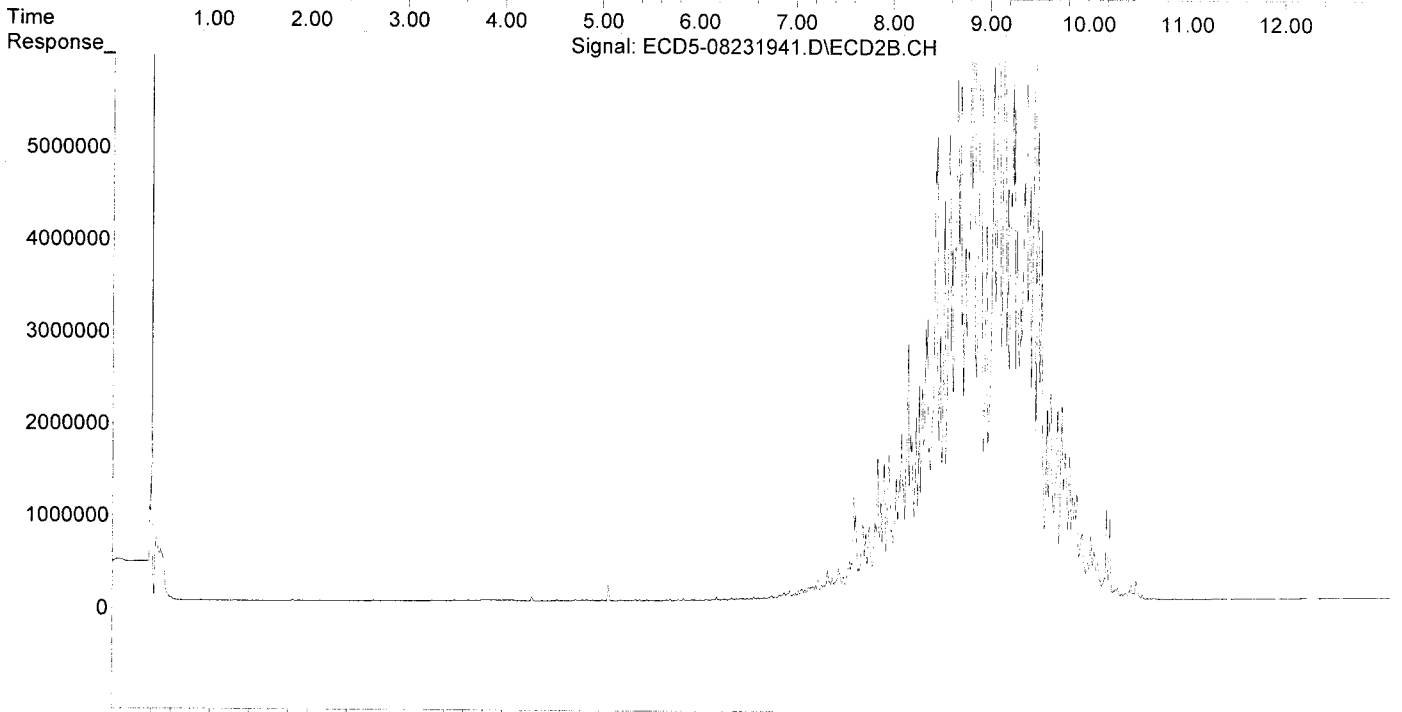
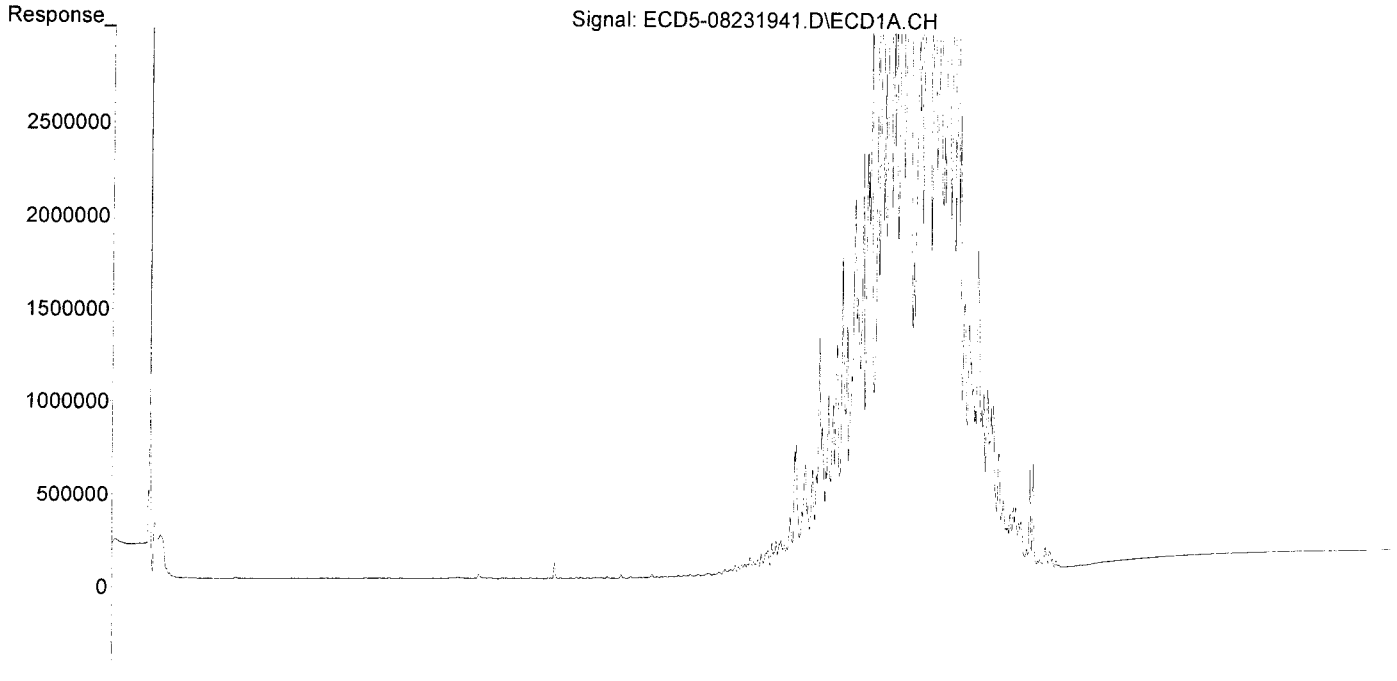
Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	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...	7.500	8.466	1674674	5030917	2351.899	2421.326
37) Toxaphene...	7.792	8.813	2958997	6610397	2253.073	2699.433
38) Toxaphene...	8.104	8.848	6831460	10545708	2516.585	2773.802
39) Toxaphene...	8.345	8.914	6407070	17190037	2523.403	2695.039
40) Toxaphene...	8.572	9.091	5074570	9435236	2678.561	2669.893
41) Toxaphene...	8.640	9.471	6510950	10090951	2436.088	2281.169
42) Toxaphene...	3.452	0.000	4166	0	NoCal	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : R:\data\2019-08\9H23034\  
Data File : ECD5-08231941.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 23 Aug 2019 23:20  
Operator : MJB  
Sample : 9H23034-CALS  
Misc : A19D121, TOX 2000 ppb  
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Aug 26 11:40:44 2019  
Quant Method : R:\methods\ECD5\_QUANTPEST\_190823.M  
Quant Title : Instrument: DualECD5  
QLast Update : Mon Aug 26 11:36:51 2019  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped





**Semivolatile Organic Compounds (PAHs) by EPA 8270D  
Benchsheet & Analysis Sequence Data**

Batch 9111215  
Sequence 9K26030 (A9I0890-03,04)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**


BATCH #: 9111215 (Sediment)

DEC 04 2019

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	>11
	9111215-BLK1	QC	11/26/19 10:06	11	5				100				
	9111215-BS1	QC	11/26/19 10:06	10	5	A19H078		100	100				
	A9I0890-03	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.27	5				100	PDI-013SC-A-02-03-190925			
	A9I0890-04	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-013SC-A-03-04-190925			
	A9J0033-16	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.14	5				100	PDI-024SC-A-02-03-190927			
	A9J0033-17	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.15	5				100	PDI-024SC-A-03-04-190927			
	A9J0033-17RE1	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.15	5				100	PDI-024SC-A-03-04-190927	Added 12/2/2019 By DTH		
	A9J0033-26	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.3	5				100	PDI-025SC-A-02-03-190927			
	A9J0033-27	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.26	5				100	PDI-025SC-A-03-04-190927			
	A9J0033-30	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.47	5				100	PDI-030SC-A-01-02-190929			
	A9J0033-39	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-036SC-A-00-01-190929			
	A9J0033-40	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.84	5				100	PDI-036SC-A-01-02-190929			
	A9J0096-01	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.79	5				100	PDI-039SC-A-00-01-190930			
	A9J0096-01RE1	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.79	5				100	PDI-039SC-A-00-01-190930	Added 12/2/2019 By DTH		
	A9J0096-02	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.61	5				100	PDI-039SC-A-01-02-190930			
	A9J0096-02RE1	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.61	5				100	PDI-039SC-A-01-02-190930	Added 12/2/2019 By DTH		
	A9J0096-13	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.3	5				100	PDI-040SC-A-00-01-190930			
	A9J0096-14	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.44	5				100	PDI-040SC-A-01-02-190930			
	A9J0353-07	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.36	5				100	PDI-019SC-A-06-07-191008			

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

  
 Reviewed By: \_\_\_\_\_ Date 12/3/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9111215 (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
	A9J0353-07RE1	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.36	5				100	PDI-019SC-A-06-07-191008	Added 12/3/2019 By hml			
	A9J0353-08	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-019SC-A-07-08-191008				
	A9J0353-08RE1	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-019SC-A-07-08-191008	Added 12/2/2019 By DTH			
	A9J0353-15	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.49	5				100	PDI-020SC-A-02-03-191008				
	A9J0353-16	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.24	5				100	PDI-020SC-A-03-04-191008				
	A9J0353-30	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.36	5				100	PDI-033SC-A-04-05-191008				
	A9J0353-31	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.57	5				100	PDI-033SC-A-05-06-191008				
	A9J0360-01	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.59	5				100	PDI-016SC-A-00-01-191009	MS/MSD			
	9111215-MS1	QC	11/26/19 10:06	10.5	5	A19H078	A9J0360-01	100	100					
	9111215-MSD1	QC	11/26/19 10:06	10.65	5	A19H078	A9J0360-01	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	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19J413	04/14/20	8270D LL PAH-Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A19K010	10/29/25	Sodium Sulfate Lot # 188777						

Method 3546 digestion time and temperture achieved.

Initial:

Witness: \_\_\_\_\_

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9111215 (Soil)

Prep Method: EPA 3546

*Sediment*  
*Anal*  
*11/26/19*

#	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
1	9111215-BLK1	QC	11/26/19 10:06	10.1	5				100					
2	9111215-BS1	QC	11/26/19 10:06	10	5	A19H078		100	100					
3	A910890-03	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.27	5				100	PDI-013SC-A-02-03-190925	dirt Reck *			
4	A910890-04	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-013SC-A-03-04-190925	dirt Reck			
5	A9J0033-16	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.14	5				100	PDI-024SC-A-02-03-190927	Mud odor *			
6	A9J0033-17	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.15	5				100	PDI-024SC-A-03-04-190927	Mud *			
7	A9J0033-26	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.30	5				100	PDI-025SC-A-02-03-190927	dirt odor			
8	A9J0033-27	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.26	5				100	PDI-025SC-A-03-04-190927	dirt			
9	A9J0033-30	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.47	5				100	PDI-030SC-A-01-02-190929	dirt			
10	A9J0033-39	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-036SC-A-00-01-190929	dirt			
11	A9J0033-40	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.84	5				100	PDI-036SC-A-01-02-190929	dirt			
12	A9J0096-01	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.79	5				100	PDI-039SC-A-00-01-190930	Mud			
13	A9J0096-02	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.61	5				100	PDI-039SC-A-01-02-190930	dirt			
14	A9J0096-13	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.30	5				100	PDI-040SC-A-00-01-190930	dirt			
15	A9J0096-14	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.44	5				100	PDI-040SC-A-01-02-190930	dirt			
16	A9J0353-07	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.36	5				100	PDI-019SC-A-06-07-191008	Mud			
17	A9J0353-08	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.35	5				100	PDI-019SC-A-07-08-191008	Mud			
18	A9J0353-15	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.49	5				100	PDI-020SC-A-02-03-191008	Mud			
19	A9J0353-16	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.24	5				100	PDI-020SC-A-03-04-191008	dirt			

Prepared By: CAH Date: 11/26/19  
ccm 11-26-19

Reviewed By: CAH Date: 11/26/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 911215 (Soil)

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
20	A9J0353-30	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.36	5 ✓				100	PDI-033SC-A-04-05-191008	dirt Odor			
21	A9J0353-31	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.57	5 ✓				100	PDI-033SC-A-05-06-191008	dirt			
22	A9J0360-01	A 8270D LL PAH Only (Scan)	11/26/19 10:06	10.59	5 ✓				100	PDI-016SC-A-00-01-191009	MS/MSD Mud Odor			
23	9111215-MSI	QC	11/26/19 10:06	10.50	5 ✓	A19H078	A9J0360-01	100	100					
24	9111215-MSDI	QC	11/26/19 10:06	10.85	5 ✓	A19H078	A9J0360-01	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	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19J413	04/14/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A19K010	10/29/25	Sodium Sulfate Lot # 188777						

Method 3546 digestion time and temperture achieved.

Initial: *awt*

Witness: *JAG* ~~11/29/19~~  
11/26/19

*⊗ = Staining On Turbo Vap*

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9K26030**

Instrument: **SV-GCMS14**

Date: **11/26/19 11:21**

Calibration: **A9I1001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9K26030-TUN1	Sediment	QC	QC			A19K048	A19K329
2	9K26030-CCV1	Sediment	QC	QC			A19K048	A19K012
3	9K26030-CCB1	Sediment	QC	QC			A19K048	
4	9111215-BLK1	Sediment	QC	QC		9111215	A19K048	
5	9111215-BS1	Sediment	QC	QC		9111215	A19K048	
6	A9J0360-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
7	9111215-MS1	Sediment	QC	QC		9111215	A19K048	
8	9111215-MSD1	Sediment	QC	QC		9111215	A19K048	
9	A9I0890-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
10	A9I0890-04	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
11	A9J0033-16	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
12	A9J0033-17	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
13	A9J0033-26	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
14	A9J0033-39	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
15	A9J0033-40	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
16	A9J0096-13	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
17	A9J0353-15	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
18	A9J0353-30	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
19	A9J0096-01	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
20	A9J0353-08	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
21	A9J0033-27	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
22	A9J0353-31	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
23	A9J0033-30	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
24	A9J0096-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/11/19	9111215	A19K048	
25	9K26030-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: SM 12/2/19

Comments:

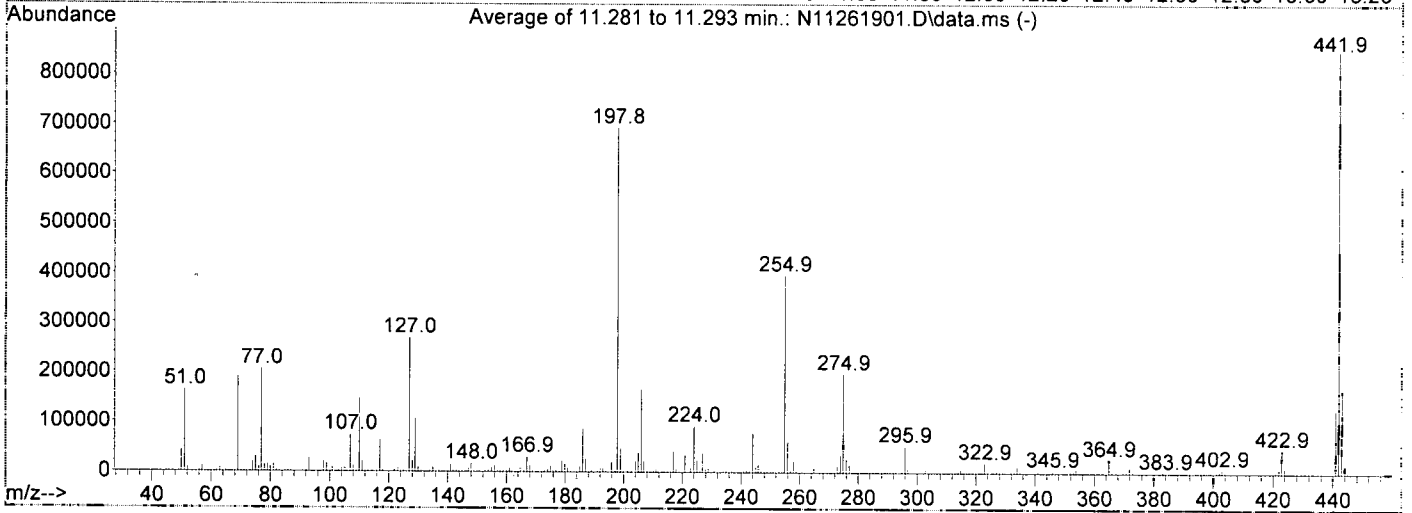
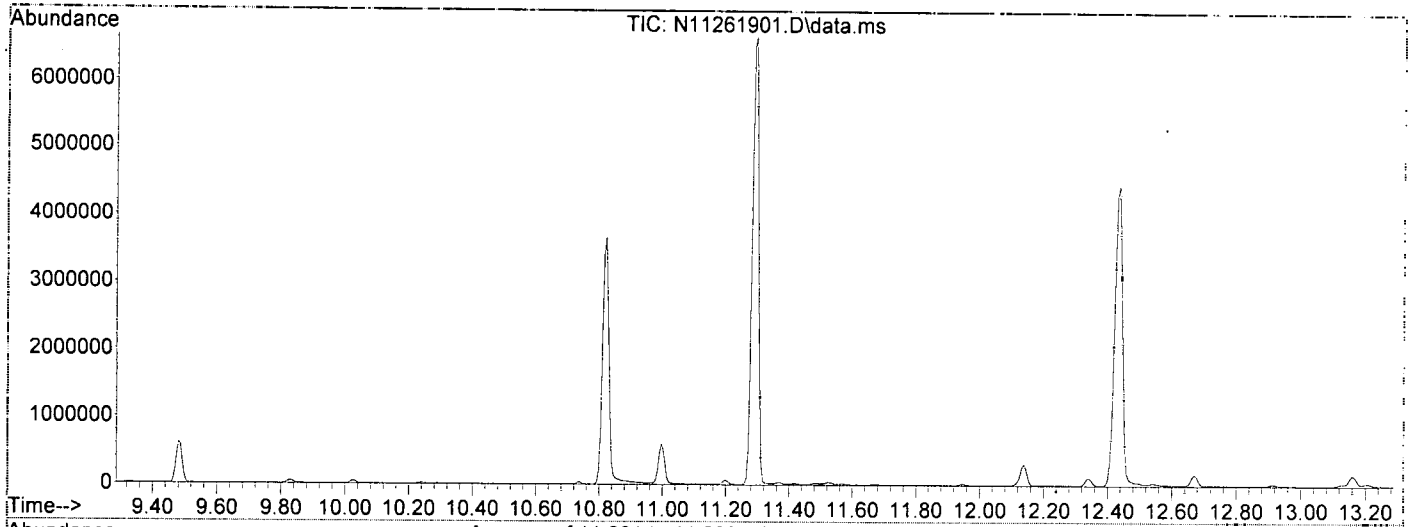
Data Reviewed By: SM 12/3/19

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261901.D  
 Acq On : 26 Nov 2019 01:10 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-TUN1  
 Misc : 1x, A19K329 DFTPPG45  
 ALS Vial : 1 Sample Multiplier: 1

*AMS*  
*12/2/19*

Integration File: rteint.p

Method : U:\methods\DFTPP.M  
 Title : 8270 DFTPP Tune Method  
 Last Update : Wed Nov 06 13:10:03 2019



AutoFind: Scans 1199, 1200, 1201; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	3090	PASS
69	69	100	100	100.0	190345	PASS
70	69	0.00	2	0.5	913	PASS
197	198	0.00	2	0.6	3860	PASS
198	198	100	100	100.0	691212	PASS
199	198	5	9	6.9	47392	PASS
365	198	1	100	3.8	26019	PASS
441	443	0.01	150	76.6	127267	PASS
442	198	0.10	200	122.5	846400	PASS
443	442	15	24	19.6	166056	PASS

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261901.D  
 Acq On : 26 Nov 2019 01:10 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Dec 02 14:54:04 2019  
 Quant Method : U:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Wed Nov 06 13:10:03 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.519	150	126082	2.00	ug/mL	0.00
2) Naphthalene-d8	7.720	136	343081	2.00	ug/mL	-0.01
3) Acenaphthene-d10	9.480	162	189697	2.00	ug/mL	-0.01
5) Phenanthrene-d10	10.996	188	320958	2.00	ug/mL	-0.01
11) Chrysene-d12	14.621	240	273807	2.00	ug/mL	-0.02
12) Perylene-d12	16.708	264	280401	2.00	ug/mL	-0.02
13) Dibenz(a,h)anthracene-...	17.897	292	259947	2.00	ug/mL	#-0.02
Target Compounds						
4) Pentachlorophenol	10.821	266	758806	42.36	ug/mL	80
6) DFTPP	11.293	442	1440995	55.61	ug/mL	72
7) Benzidine	12.435	184	3199577	28.02	ug/mL	97
8) 4,4-DDE	12.669	TIC	220171	No Calib		
9) 4,4-DDD	13.158	TIC	229564	No Calib		
10) 4,4-DDT	13.689	TIC	11363711	34.53	ug/mL	95

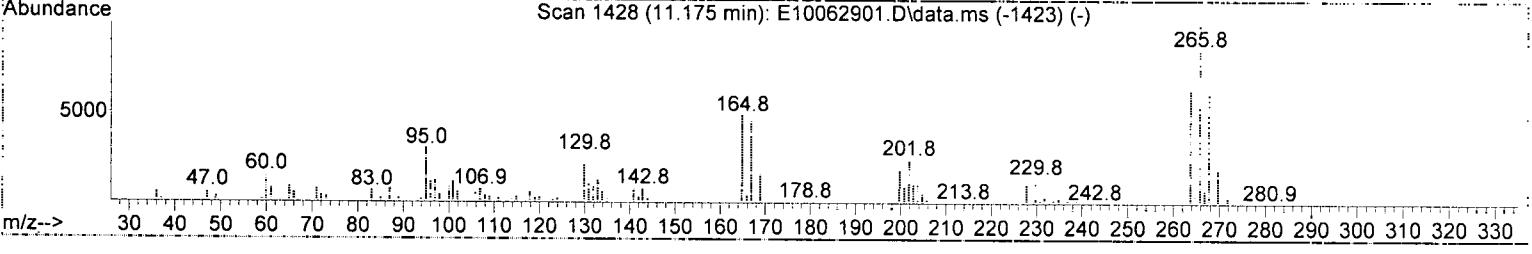
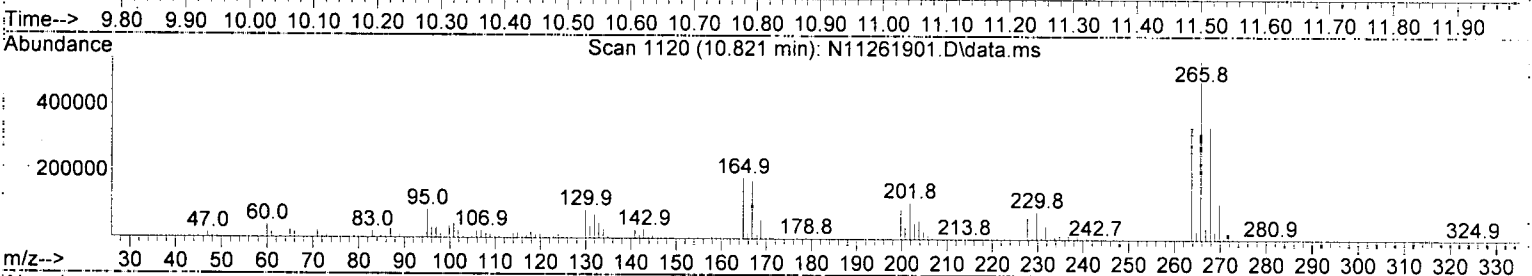
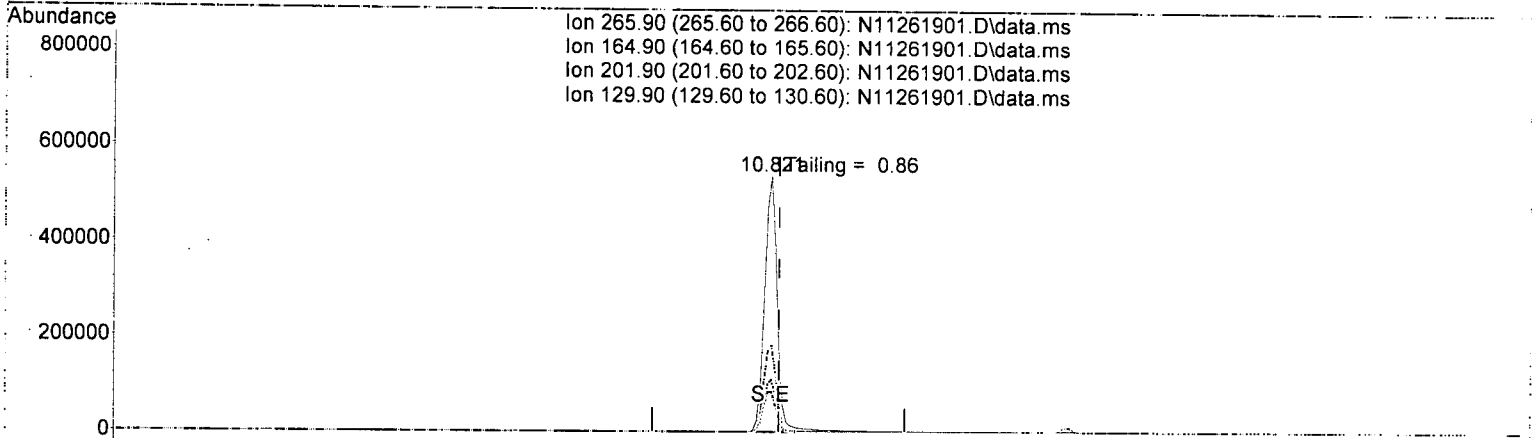
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261901.D  
 Acq On : 26 Nov 2019 01:10 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Dec 02 14:54:04 2019  
 Quant Method : U:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Wed Nov 06 13:10:03 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261901.D\data.ms

(4) Pentachlorophenol

10.821min (-0.012) 42.36 ug/mL

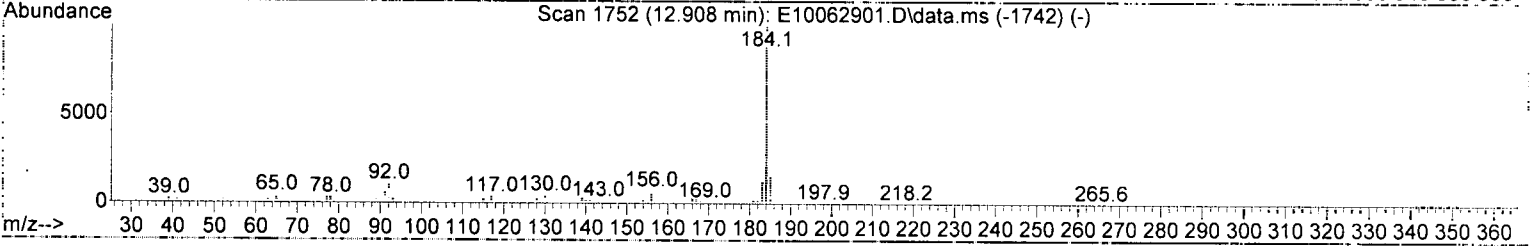
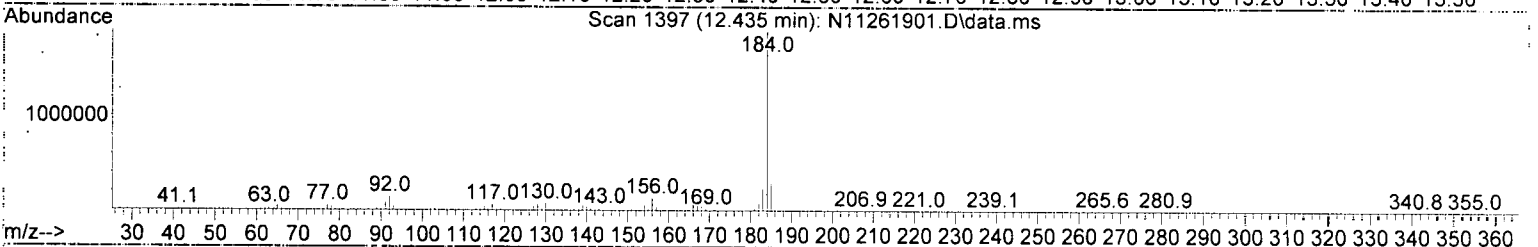
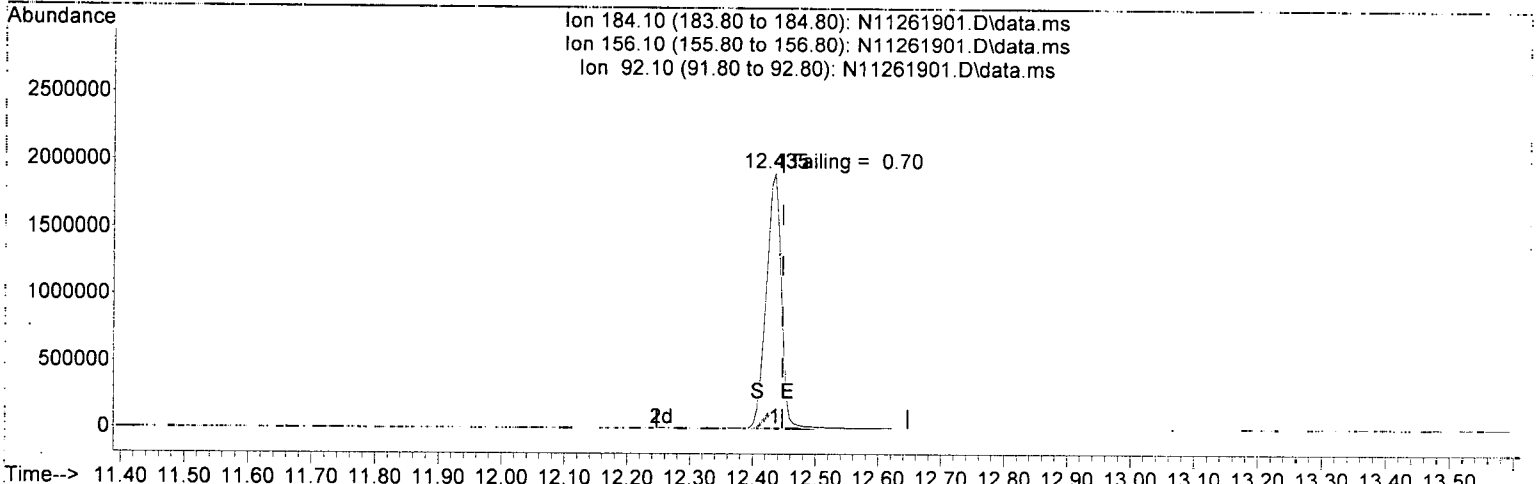
response 758806

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	34.00
201.90	25.80	20.59
129.90	27.30	15.83

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261901.D  
 Acq On : 26 Nov 2019 01:10 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Dec 02 14:54:04 2019  
 Quant Method : U:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Wed Nov 06 13:10:03 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261901.D\data.ms

(7) Benzidine

12.435min (-0.012) 28.02 ug/mL

response 3199577

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.89
92.10	8.20	7.44
0.00	0.00	0.00

## DDT Breakdown Check (Validated 5/1/2013)

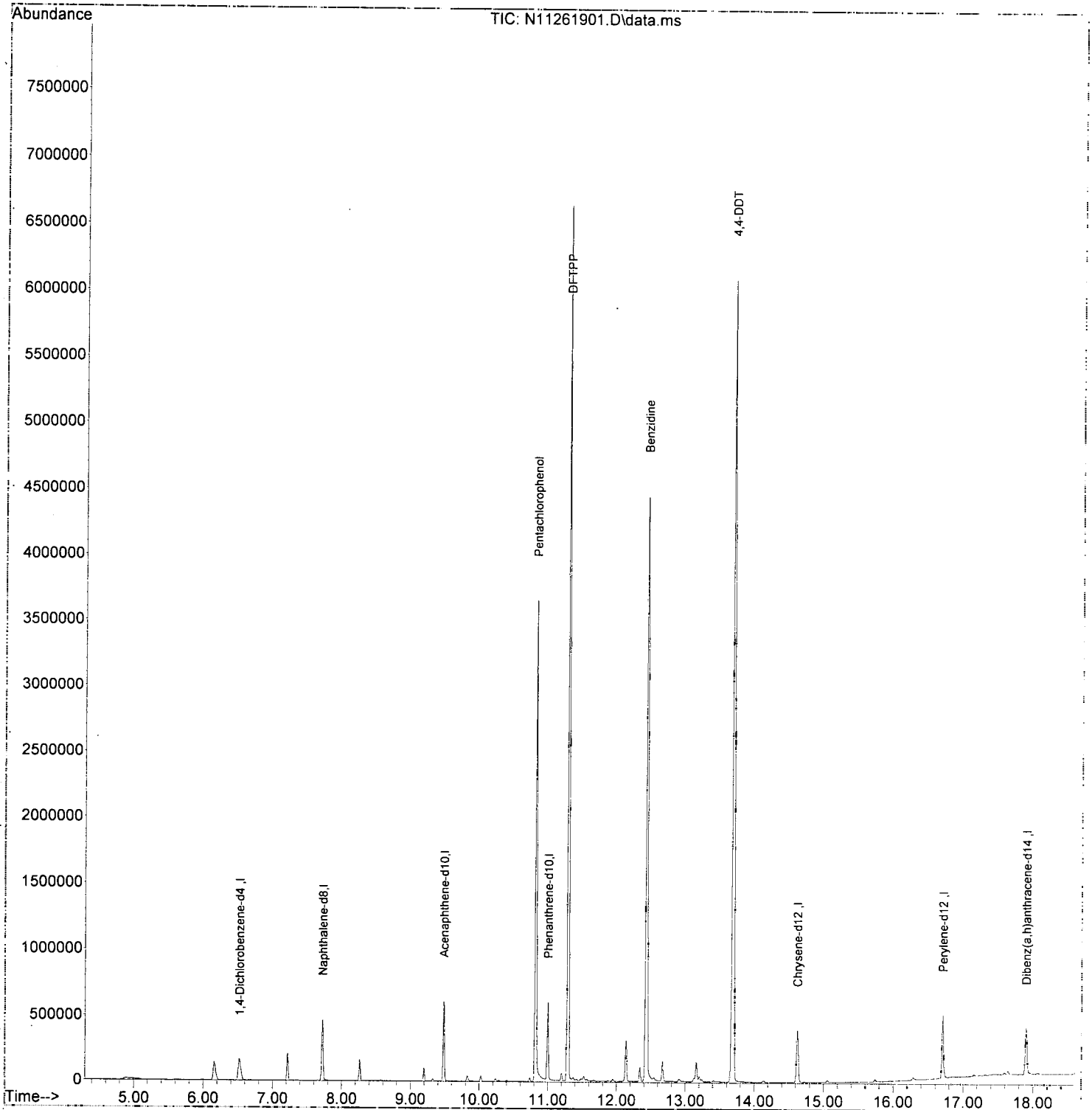
From:  
9K26030-TUN1  
SV-GCMS14

First Column Area Counts	Percent Breakdown
DDE 220171	
DDD 229564	
<b>DDT 11363711</b>	<b>3.81</b>
	<b>PASS</b>

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2019-11\9K26030\  
Data File : N11261901.D  
Acq On : 26 Nov 2019 01:10 pm  
Operator : JK/ AMS/ DTH  
Sample : 9K26030-TUN1  
Misc : 1x, A19K329 DFTPP@45  
ALS Vial : 1 Sample Multiplier: 1  
DataAcq Meth:DFTPP.M

Quant Time: Dec 02 14:54:04 2019  
Quant Method : U:\methods\DFTPP.M  
Quant Title : 8270 DFTPP Tune Method  
QLast Update : Wed Nov 06 13:10:03 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261902.D  
 Acq On : 26 Nov 2019 01:38 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-CCV1  
 Misc : 1x, A19K012@50  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:17 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

AMS  
 12/2/19

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	119	0.00
2 S Nitrobenzene-d5 (Surr)	50.000	47.035	5.9	115	-0.01
3 T Decalin	50.000	29.844	40.3#	71	-0.01
4 T Naphthalene	50.000	48.268	3.5	117	0.00
5 T 2-Methylnaphthalene	50.000	39.773	20.5#	94	0.00
6 T 1-Methylnaphthalene	50.000	39.267	21.5#	91	0.00
7 T 1,1'-Biphenyl	50.000	36.828	26.3#	88	0.00
8 T 2,6-Dimethylnaphthalene	50.000	36.289	27.4#	84	0.00
9 I Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	89	0.00
10 S 2-Fluorobiphenyl (Surr)	50.000	52.238	-4.5	94	0.00
11 S Acenaphthylene d-8 (Surr)	50.000	0.203	99.6#	3	0.00
12 T Acenaphthylene	50.000	45.896	8.2	82	0.00
13 T Acenaphthene	50.000	47.925	4.2	87	0.00
14 T Dibenzofuran	50.000	45.423	9.2	81	0.00
15 T 1,6,7-Trimethylnaphthalene	50.000	47.569	4.9	86	0.00
16 T Fluorene	50.000	45.367	9.3	81	0.00
17 I Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	78	0.00
18 T Dibenzothiopene	50.000	48.605	2.8	77	0.00
19 T Phenanthrene	50.000	48.112	3.8	76	0.00
20 T Anthracene	50.000	45.890	8.2	72	0.00
21 T Carbazole	50.000	41.394	17.2	65	0.00
22 T 1-Methylphenanthrene	50.000	49.559	0.9	78	0.00
23 T Fluoranthene	50.000	48.311	3.4	76	0.00
24 I Chrysene-d12 (ISTD)	100.000	100.000	0.0	79	0.00
25 T Pyrene	50.000	47.890	4.2	76	0.00
26 S Terphenyl-d14 (Surr)	50.000	47.165	5.7	75	0.00
27 T Benz(a)anthracene	50.000	45.378	9.2	76	0.00
28 T Chrysene	50.000	46.750	6.5	75	0.00
29 I Perylene-d12 (ISTD)	100.000	100.000	0.0	90	0.00
30 T Benzo(b)fluoranthene	50.000	47.085	5.8	84	0.00
31 T Benzo(k)fluoranthene	50.000	47.298	5.4	87	0.00
32 T Benzo(b+k)fluoranthene	100.000	93.959	6.0	85	0.06
33 S Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-18.02#
34 T Benzo(e)pyrene	50.000	45.944	8.1	84	0.00
35 T Benzo(a)pyrene	50.000	48.372	3.3	86	0.00
36 T Perylene	50.000	47.500	5.0	85	0.00
37 I Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	118	0.00
38 T Indeno(1,2,3-cd)Pyrene	50.000	44.547	10.9	106	0.00
39 T Dibenz(a,h)anthracene	50.000	47.255	5.5	113	0.00
40 T Benzo(g,h,i)perylene	50.000	45.156	9.7	105	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261902.D  
 Acq On : 26 Nov 2019 01:38 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-CCV1  
 Misc : 1x, A19K012@50  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

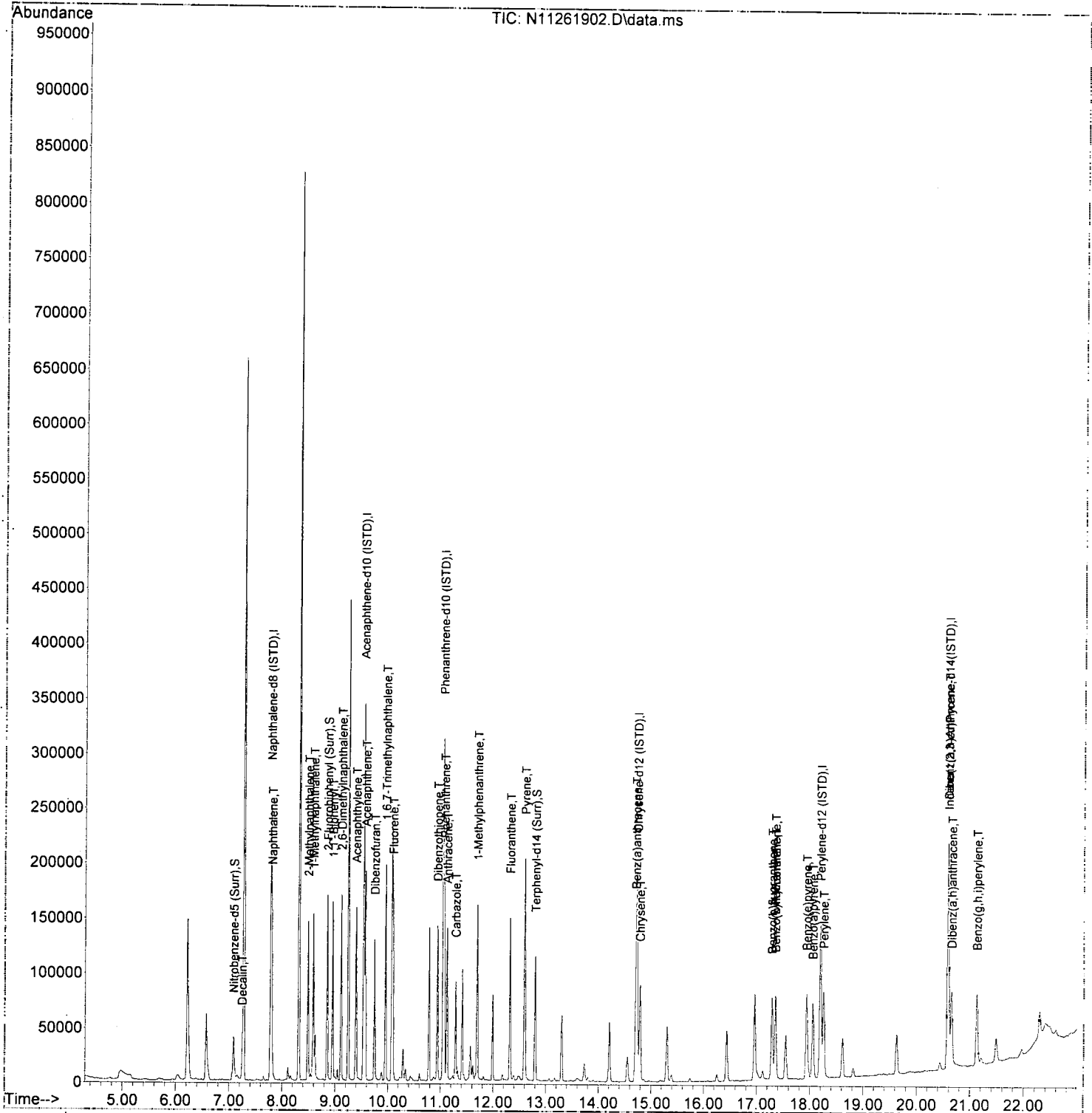
Quant Time: Dec 02 14:55:17 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.784	136	176693	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.538	162	104958	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	170868	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.732	240	134797	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	128221	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	109858	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.085	82	27616	47.03	ng/ml	-0.01	
10) 2-Fluorobiphenyl (Surr)	8.851	172	81795	52.24	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.381	160	3488	0.20	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.797	244	66866	47.17	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
Target Compounds							
							Qvalue
3) Decalin	7.248	138	3926	29.84	ng/ml		90
4) Naphthalene	7.801	128	94064	48.27	ng/ml		99
5) 2-Methylnaphthalene	8.489	142	65682	39.77	ng/ml		97
6) 1-Methylnaphthalene	8.588	142	64833	39.27	ng/ml		96
7) 1,1'-Biphenyl	8.950	154	81798	36.83	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.113	156	58862	36.29	ng/ml		98
12) Acenaphthylene	9.393	152	104580	45.90	ng/ml		99
13) Acenaphthene	9.568	153	71526	47.93	ng/ml		99
14) Dibenzofuran	9.742	168	84912	45.42	ng/ml		95
15) 1,6,7-Trimethylnaphtha...	9.952	170	59540	47.57	ng/ml		99
16) Fluorene	10.092	166	69286	45.37	ng/ml		99
18) Dibenzothiopene	10.937	184	86860	48.60	ng/ml		96
19) Phenanthrene	11.065	178	96197	48.11	ng/ml		99
20) Anthracene	11.118	178	85346	45.89	ng/ml		99
21) Carbazole	11.287	167	62294	41.39	ng/ml		98
22) 1-Methylphenanthrene	11.695	192	68836	49.56	ng/ml		98
23) Fluoranthene	12.319	202	97323	48.31	ng/ml		95
25) Pyrene	12.598	202	100855	47.89	ng/ml		100
27) Benz(a)anthracene	14.708	228	71018	45.38	ng/ml		100
28) Chrysene	14.790	228	69238	46.75	ng/ml		98
30) Benzo(b)fluoranthene	17.285	252	69663	47.08	ng/ml		92
31) Benzo(k)fluoranthene	17.349	252	68900	47.30	ng/ml		91
32) Benzo(b+k)fluoranthene	17.349	252	142192	93.96	ng/ml		91
34) Benzo(e)pyrene	17.937	252	68735	45.94	ng/ml		98
35) Benzo(a)pyrene	18.054	252	61256	48.37	ng/ml		96
36) Perylene	18.258	252	74088	47.50	ng/ml		99
38) Indeno(1,2,3-cd)Pyrene	20.589	276	60356	44.55	ng/ml		76
39) Dibenz(a,h)anthracene	20.654	278	60160	47.26	ng/ml		80
40) Benzo(g,h,i)perylene	21.126	276	64902	45.16	ng/ml		99
-----							

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

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261902.D  
 Acq On : 26 Nov 2019 01:38 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-CCV1  
 Misc : 1x, A19K012@50  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:17 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261903.D  
 Acq On : 26 Nov 2019 02:10 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9K26030-CCB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 3 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:52 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

AMS  
12/2/19

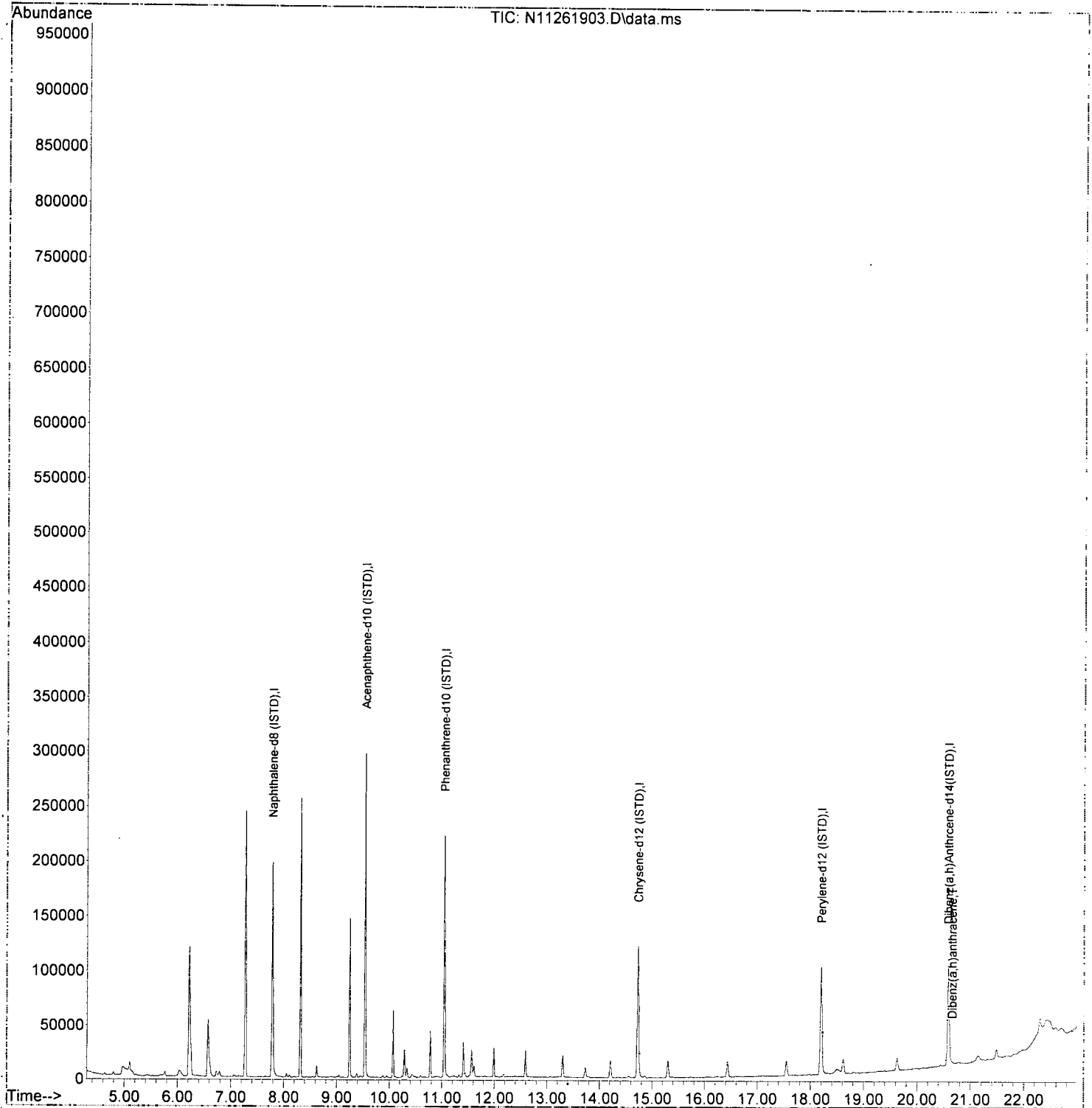
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Naphthalene-d8 (ISTD)	7.784	136	160482	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.539	162	93543	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	131601	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	96465	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.200	264	90843	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.584	292	78035	100.00	ng/ml	0.00
<b>System Monitoring Compounds</b>						
2) Nitrobenzene-d5 (Surr)	7.067	82	64	0.12	ng/ml	-0.03
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
11) Acenaphthylene d-8 (Surr)	9.381	160	2709	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.803	244	63	0.06	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
<b>Target Compounds</b>						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.813	128	290	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	11.072	178	141	N.D.		
20) Anthracene	11.072	178	141	N.D.		
21) Carbazole	11.567	167	152	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	14.726	228	251	N.D.		
28) Chrysene	14.790	228	52	N.D.		
30) Benzo(b)fluoranthene	0.000		0	N.D.		
31) Benzo(k)fluoranthene	17.366	252	103	N.D.		
32) Benzo(b+k)fluoranthene	17.366	252	103	N.D.		
34) Benzo(e)pyrene	17.932	252	70	N.D.		
35) Benzo(a)pyrene	18.066	252	80	N.D.		
36) Perylene	18.252	252	256	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.590	276	297	N.D.		
39) Dibenz(a,h)anthracene	20.654	278	521	0.58	ng/ml	92
40) Benzo(g,h,i)perylene	21.132	276	184	N.D.		

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



Data Path : U:\data\2019-11\9K26030\  
Data File : N11261903.D  
Acq On : 26 Nov 2019 02:10 pm  
Operator : JK/ AMS/ DTH  
Sample : 9K26030-CCB1  
Misc : 1x, DCM + ISTD  
ALS Vial : 3 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:52 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261904.D  
 Acq On : 26 Nov 2019 02:42 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-BLK1  
 Misc : 1x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 4 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:55 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

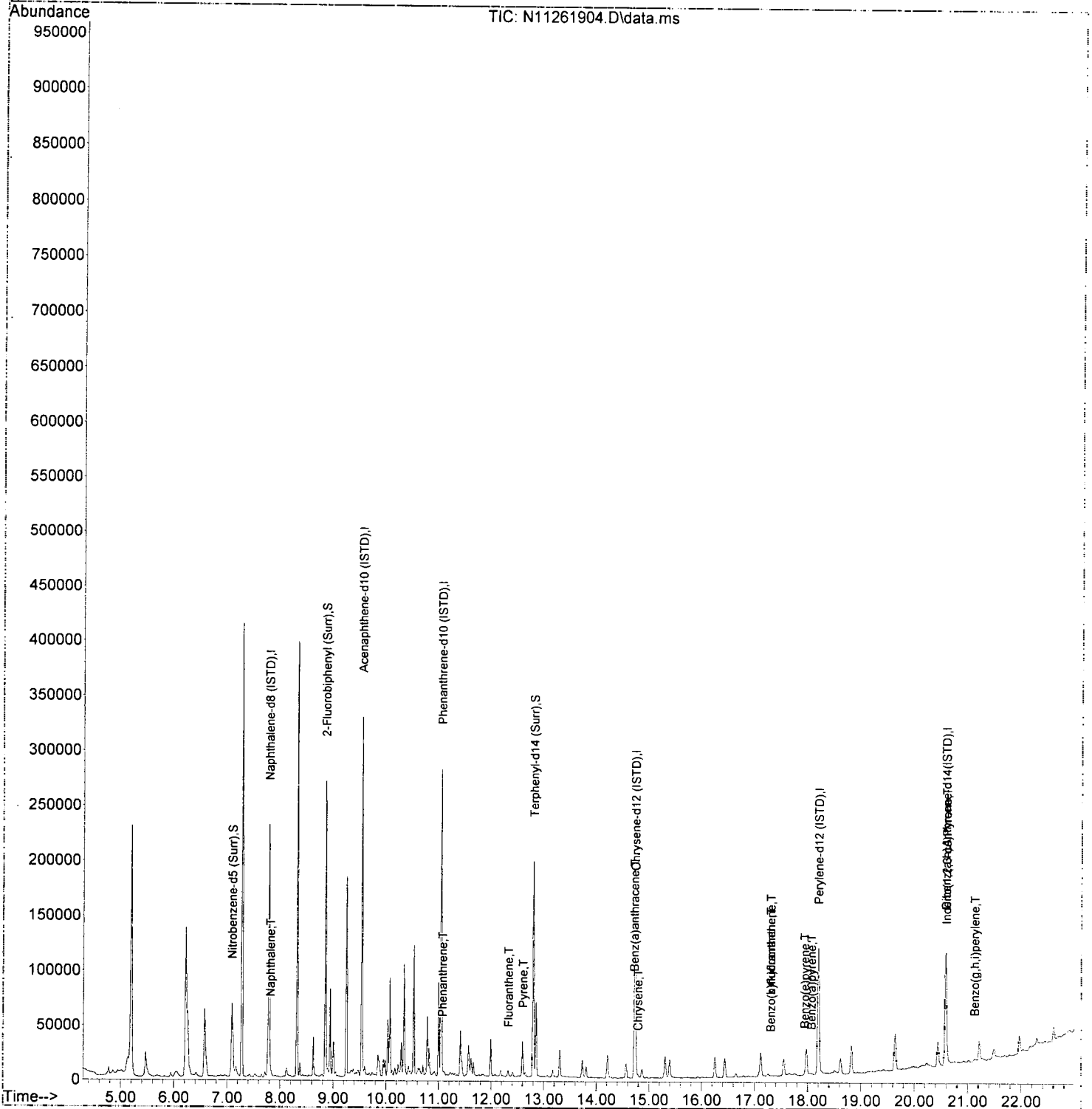
AMS  
12/2/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.784	136	171700	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.539	162	100280	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.048	188	154881	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.732	240	115436	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.200	264	103339	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.590	292	89187	100.00	ng/ml	0.01	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.090	82	45569	79.87	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.851	172	132498	88.57	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.387	160	3170	0.12	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.803	244	119541	98.46	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	7.807	128	1822	0.96	ng/ml		94
5) 2-Methylnaphthalene	8.495	142	318		N.D.		
6) 1-Methylnaphthalene	8.594	142	157		N.D.		
7) 1,1'-Biphenyl	8.956	154	571		N.D.		
8) 2,6-Dimethylnaphthalene	9.119	156	108		N.D.		
12) Acenaphthylene	9.399	152	243		N.D.		
13) Acenaphthene	9.573	153	102		N.D.		
14) Dibenzofuran	9.748	168	91		N.D.		
15) 1,6,7-Trimethylnaphtha...	9.976	170	53		N.D.		
16) Fluorene	10.098	166	141		N.D.		
18) Dibenzothiopene	10.943	184	201		N.D.		
19) Phenanthrene	11.071	178	2268	1.25	ng/ml		97
20) Anthracene	11.124	178	362		N.D.		
21) Carbazole	11.299	167	219		N.D.		
22) 1-Methylphenanthrene	11.701	192	369		N.D.		
23) Fluoranthene	12.325	202	3828	2.10	ng/ml		95
25) Pyrene	12.604	202	4397	2.44	ng/ml		96
27) Benz(a)anthracene	14.714	228	1076	0.80	ng/ml		92
28) Chrysene	14.790	228	1173	0.92	ng/ml		88
30) Benzo(b)fluoranthene	17.302	252	979	0.82	ng/ml		97
31) Benzo(k)fluoranthene	17.302	252	1272	1.08	ng/ml		94
32) Benzo(b+k)fluoranthene	17.302	252	1285	1.05	ng/ml		94
34) Benzo(e)pyrene	17.943	252	672	0.56	ng/ml		86
35) Benzo(a)pyrene	18.066	252	747	0.73	ng/ml		85
36) Perylene	18.258	252	283		N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.595	276	690	0.63	ng/ml		70
39) Dibenz(a,h)anthracene	20.648	278	227		N.D.		
40) Benzo(g,h,i)perylene	21.126	276	659	0.56	ng/ml		66

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

Data Path : U:\data\2019-11\9K26030\  
Data File : N11261904.D  
Acq On : 26 Nov 2019 02:42 pm  
Operator : JK/ AMS/ DTH  
Sample : 9111215-BLK1  
Misc : 1x, 8270D PAH ONLY (SCAN)  
ALS Vial : 4 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:55 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261905.D  
 Acq On : 26 Nov 2019 03:15 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-BS1  
 Misc : 1x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

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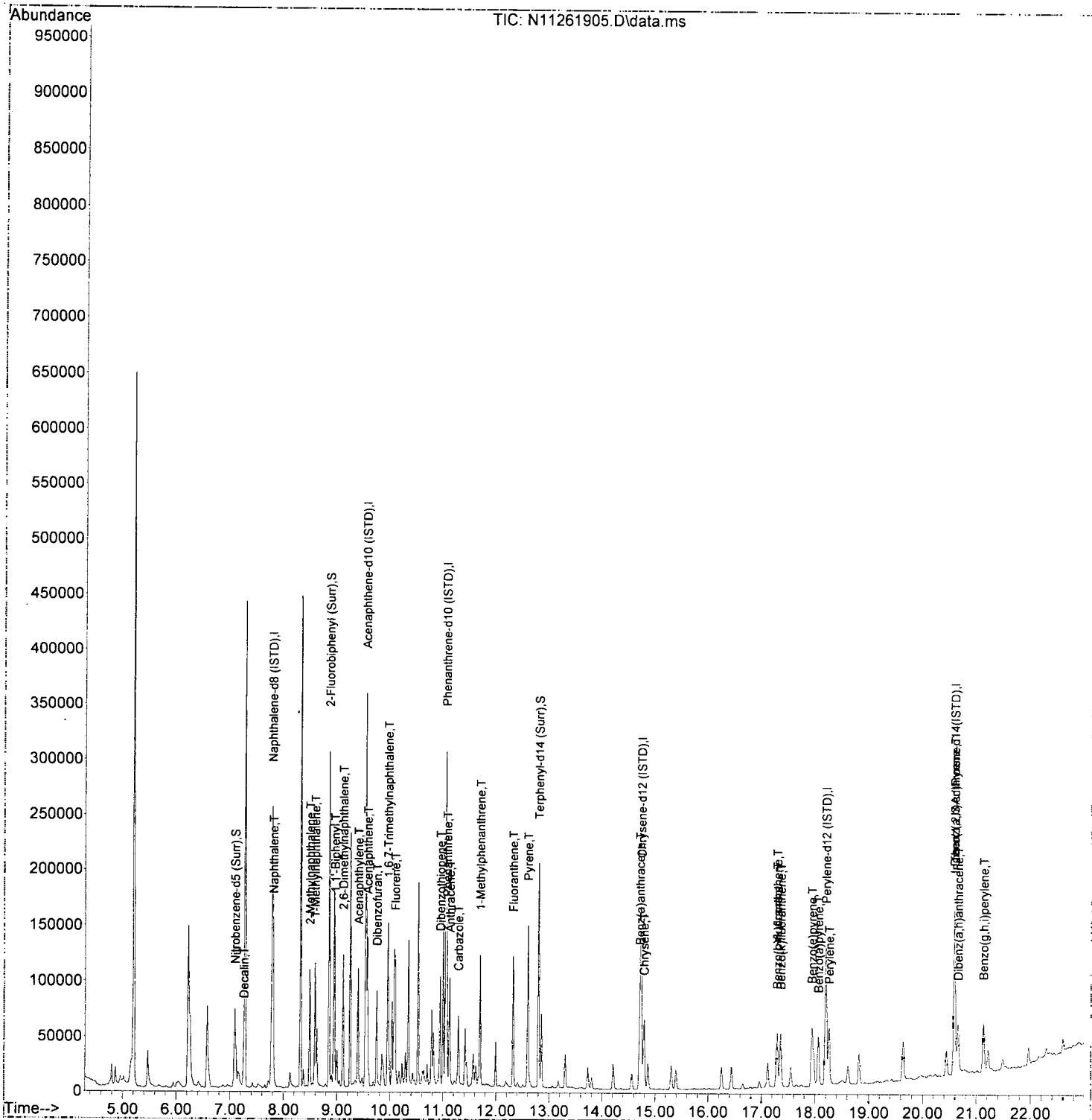
Quant Time: Dec 02 14:55:59 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	179760	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	107744	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.048	188	168664	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	120426	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.200	264	110197	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.584	292	95679	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.090	82	47030	78.73	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.851	172	142261	88.51	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	2667	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	118682	93.70	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
						Qvalue
3) Decalin	7.254	138	3238	24.19	ng/ml	86
4) Naphthalene	7.801	128	67443	34.02	ng/ml	99
5) 2-Methylnaphthalene	8.489	142	47142	28.06	ng/ml	98
6) 1-Methylnaphthalene	8.588	142	47408	28.22	ng/ml	98
7) 1,1'-Biphenyl	8.956	154	57450	25.42	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.113	156	41436	25.11	ng/ml	99
12) Acenaphthylene	9.399	152	72917	31.17	ng/ml	99
13) Acenaphthene	9.573	153	51833	33.83	ng/ml	99
14) Dibenzofuran	9.748	168	57175	29.79	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.958	170	43590	33.93	ng/ml	100
16) Fluorene	10.092	166	48512	30.94	ng/ml	99
18) Dibenzothiopene	10.943	184	60736	34.43	ng/ml	95
19) Phenanthrene	11.071	178	72577	36.77	ng/ml	100
20) Anthracene	11.124	178	59606	32.47	ng/ml	99
21) Carbazole	11.287	167	42945	28.91	ng/ml	99
22) 1-Methylphenanthrene	11.695	192	50825	37.07	ng/ml	99
23) Fluoranthene	12.319	202	77253	38.85	ng/ml	96
25) Pyrene	12.598	202	81575	43.36	ng/ml	99
27) Benz(a)anthracene	14.708	228	48409	34.62	ng/ml	99
28) Chrysene	14.790	228	49150	37.15	ng/ml	99
30) Benzo(b)fluoranthene	17.291	252	46295	36.41	ng/ml	91
31) Benzo(k)fluoranthene	17.355	252	46064	36.79	ng/ml	93
32) Benzo(b+k)fluoranthene	17.291	252	95199	73.20	ng/ml	90
34) Benzo(e)pyrene	17.937	252	46990	36.55	ng/ml	98
35) Benzo(a)pyrene	18.060	252	40129	36.87	ng/ml	95
36) Perylene	18.258	252	48123	35.90	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.590	276	40860	34.63	ng/ml	79
39) Dibenz(a,h)anthracene	20.654	278	37611	33.92	ng/ml	82
40) Benzo(g,h,i)perylene	21.126	276	44022	35.17	ng/ml	99

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

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261905.D  
 Acq On : 26 Nov 2019 03:15 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-BS1  
 Misc : 1x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:55:59 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261908.D  
 Acq On : 26 Nov 2019 04:52 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-MSD1@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:09 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

AMS  
12/2/19

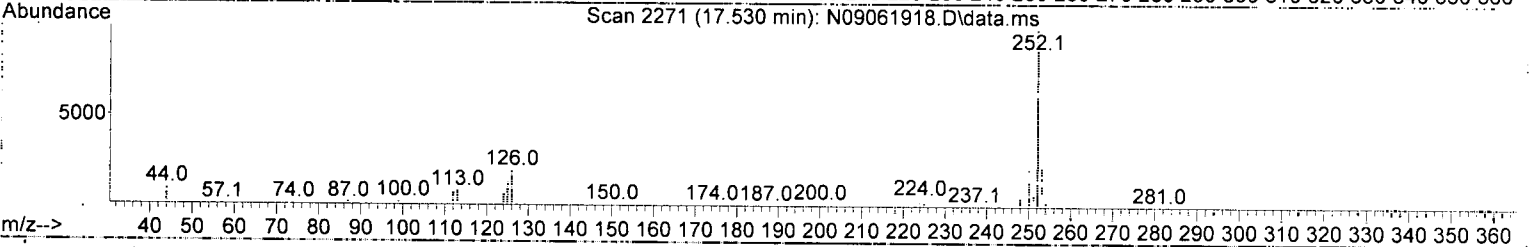
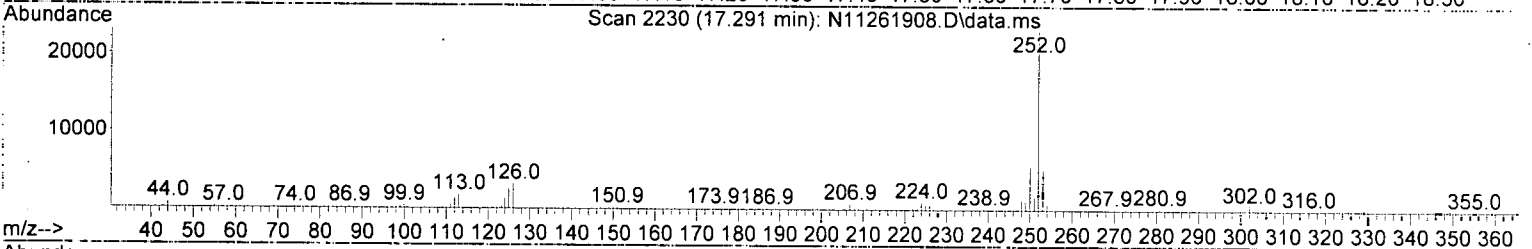
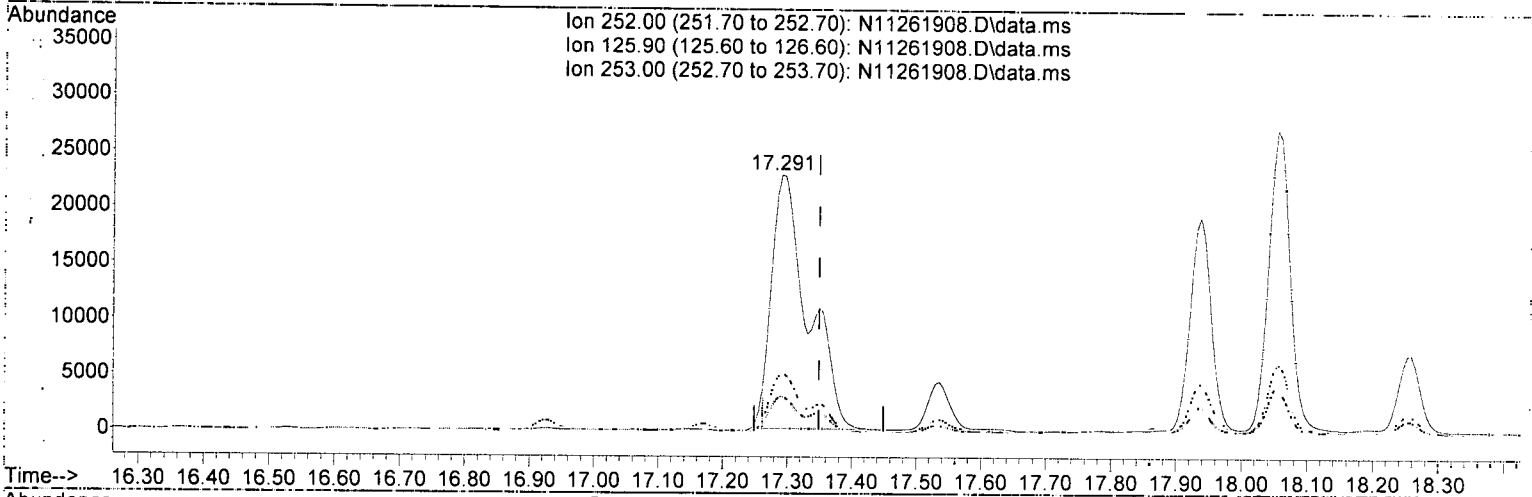
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.784	136	172455	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.538	162	104373	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	167412	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.732	240	144351	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	141138	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	119599	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.108	82	99	0.17	ng/ml	0.01	
10) 2-Fluorobiphenyl (Surr)	8.851	172	172	0.11	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.381	160	2769	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.797	244	212	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	7.802	128	16185	8.51	ng/ml	100	
5) 2-Methylnaphthalene	8.489	142	3422	2.12	ng/ml	99	
6) 1-Methylnaphthalene	8.588	142	1749	1.09	ng/ml	89	
7) 1,1'-Biphenyl	8.956	154	1324	0.61	ng/ml	93	
8) 2,6-Dimethylnaphthalene	9.119	156	9888	6.25	ng/ml	99	
12) Acenaphthylene	9.393	152	11378	5.02	ng/ml	97	
13) Acenaphthene	9.568	153	33079	22.29	ng/ml	97	
14) Dibenzofuran	9.742	168	3078	1.66	ng/ml	83	
15) 1,6,7-Trimethylnaphtha...	9.952	170	4476	3.60	ng/ml	93	
16) Fluorene	10.092	166	19660	12.95	ng/ml	99	
18) Dibenzothiopene	10.937	184	18975	10.84	ng/ml	96	
19) Phenanthrene	11.066	178	189148	96.55	ng/ml	100	
20) Anthracene	11.118	178	28818	15.82	ng/ml	97	
21) Carbazole	11.287	167	3543	2.40	ng/ml	95	
22) 1-Methylphenanthrene	11.689	192	9603	7.06	ng/ml	96	
23) Fluoranthene	12.319	202	189675	96.10	ng/ml	95	
25) Pyrene	12.598	202	234982	104.19	ng/ml	99	
27) Benz(a)anthracene	14.708	228	54761	32.67	ng/ml	77	
28) Chrysene	14.784	228	64391	40.60	ng/ml	98	
30) Benzo(b)fluoranthene	17.291	252	69092	42.42	ng/ml	92	
31) Benzo(k)fluoranthene	<del>17.291</del>	<del>252</del>	<del>88742</del>	<del>55.34</del>	<del>ng/ml</del>	<del>90</del>	<del>90 mT</del>
32) Benzo(b+k)fluoranthene	17.291	252	93559	56.16	ng/ml	90	
34) Benzo(e)pyrene	17.938	252	43434	26.38	ng/ml	98	
35) Benzo(a)pyrene	18.054	252	61209	43.91	ng/ml	95	
36) Perylene	18.258	252	16428	9.57	ng/ml	97	
38) Indeno(1,2,3-cd)Pyrene	20.590	276	46375	31.44	ng/ml	80	
39) Dibenz(a,h)anthracene	20.648	278	6454	4.66	ng/ml	92	
40) Benzo(g,h,i)perylene	21.126	276	54545	34.86	ng/ml	99	

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

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261908.D  
 Acq On : 26 Nov 2019 04:52 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-MSD1@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:09 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261908.D\data.ms

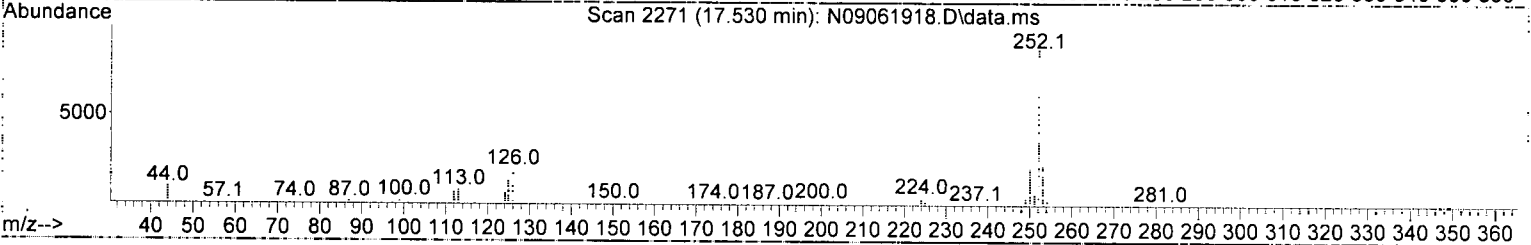
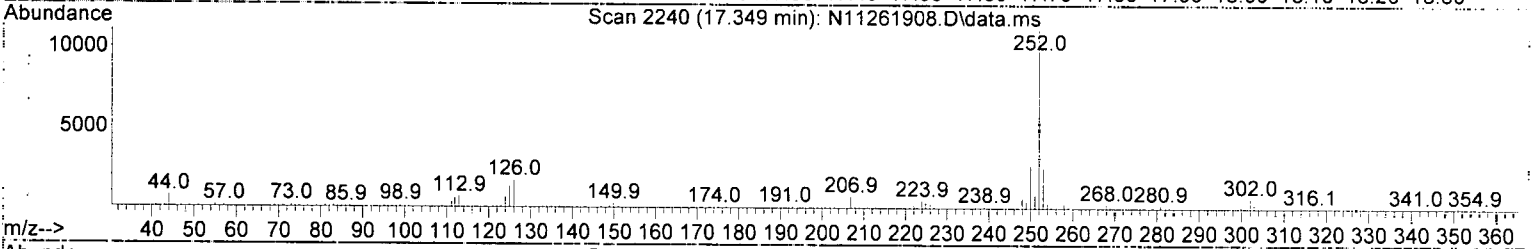
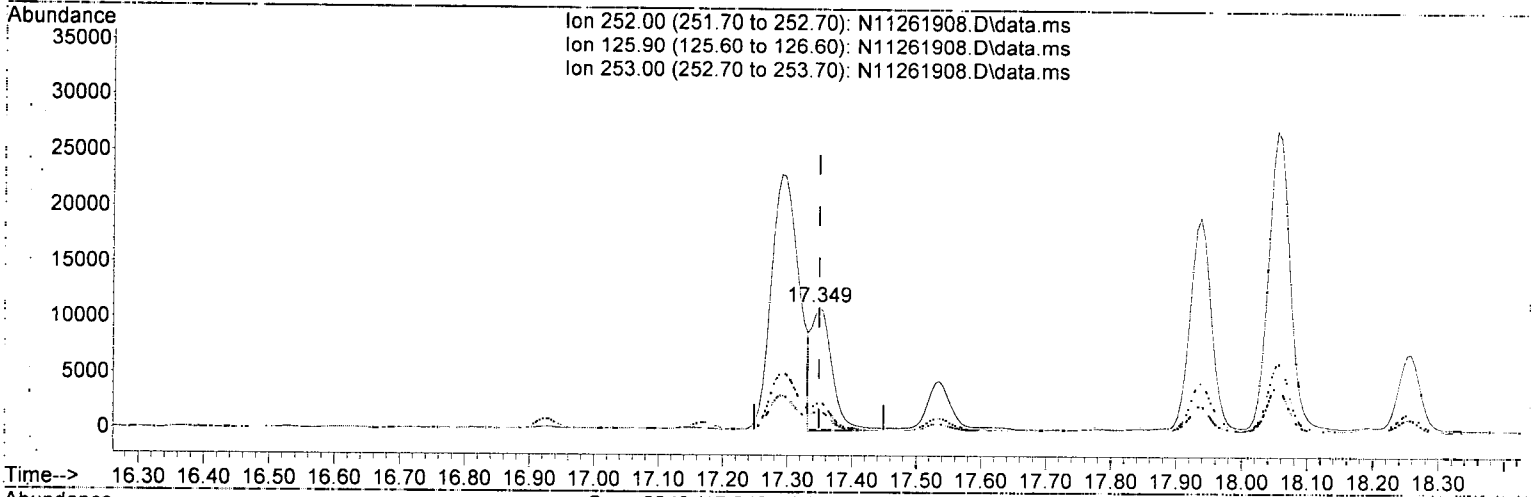
(31) Benzo(k)fluoranthene (T)		
17.291min (-0.058)	55.34 ng/ml	
response	88742	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.68
253.00	21.50	22.47
0.00	0.00	0.00

*AMS*  
*12/2/19*

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261908.D  
 Acq On : 26 Nov 2019 04:52 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-MSD1@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:09 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261908.D\data.ms

(31) Benzo(k)fluoranthene (T)

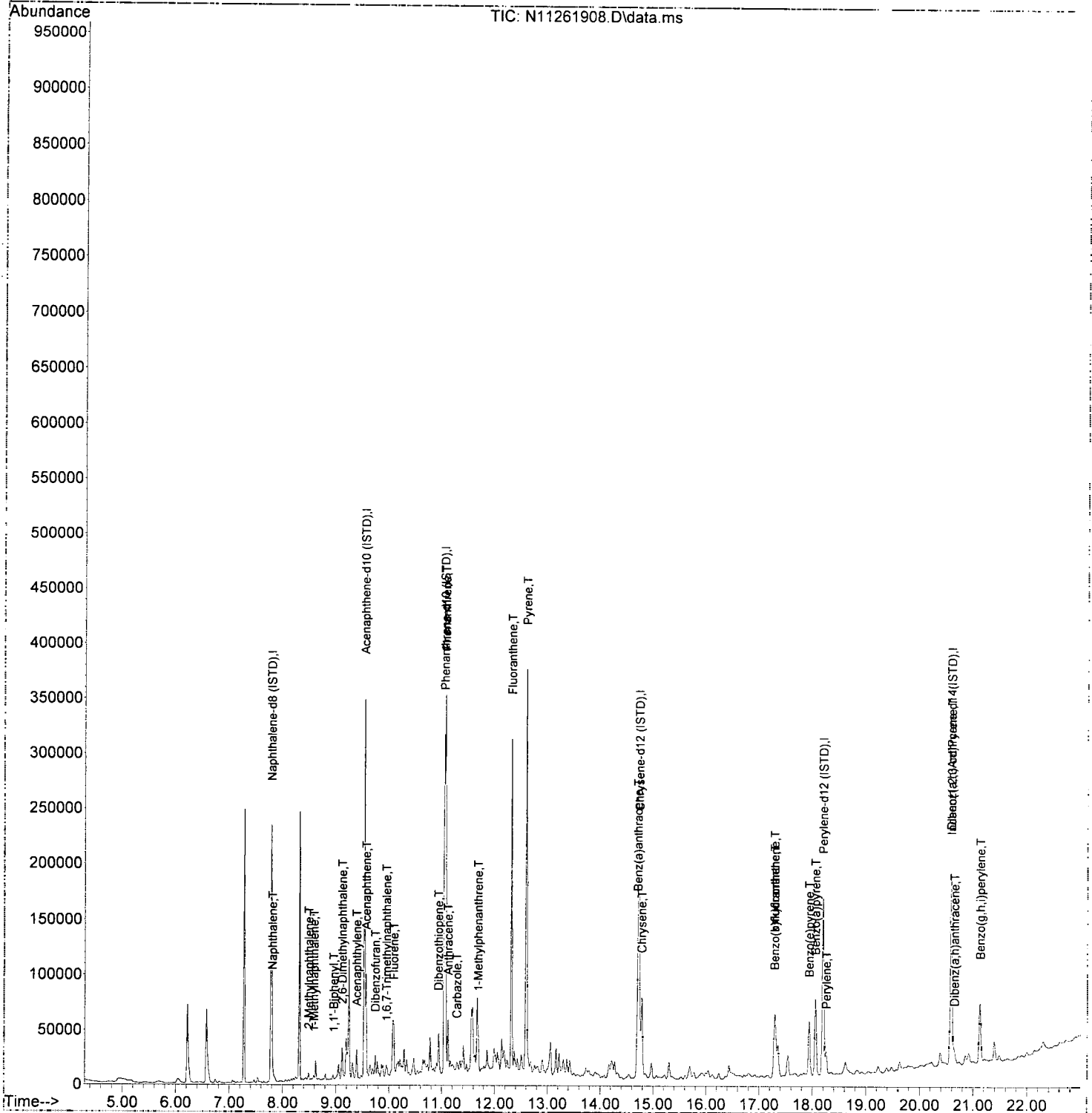
17.349min (-0.000)	15.16 ng/ml m
response	24302
Ion	Exp% Act%
252.00	100.00 100.00
125.90	22.10 15.38
253.00	21.50 22.46
0.00	0.00 0.00

*AMS*  
*12/2/19*



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261908.D  
 Acq On : 26 Nov 2019 04:52 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9111215-MSD1@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:09 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

*AMS*  
*12/2/19*

*MOS*

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.784	136	172869	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.538	162	105555	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	171321	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.726	240	153062	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	151052	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	132025	100.00	ng/ml	0.00	
<b>System Monitoring Compounds</b>							
2) Nitrobenzene-d5 (Surr)	7.172	82	77	0.13	ng/ml	0.08	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.381	160	2559	-1.00	ng/ml	0.00	
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		
<b>Target Compounds</b>							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.802	128	1790	0.94	ng/ml	97	
5) 2-Methylnaphthalene	8.489	142	5949	3.68	ng/ml	97	
6) 1-Methylnaphthalene	8.588	142	16459	10.19	ng/ml	97	
7) 1,1'-Biphenyl	8.956	154	2033	0.94	ng/ml	96	
8) 2,6-Dimethylnaphthalene	9.119	156	8662	5.46	ng/ml	98	
12) Acenaphthylene	9.393	152	9517	4.15	ng/ml	95	
13) Acenaphthene	9.568	153	59226	39.46	ng/ml	100	
14) Dibenzofuran	9.742	168	4018	2.14	ng/ml	93	
15) 1,6,7-Trimethylnaphtha...	9.952	170	3307	2.63	ng/ml	92	
16) Fluorene	10.092	166	26075	16.98	ng/ml	100	
18) Dibenzothiopene	10.937	184	23787	13.28	ng/ml	96	
19) Phenanthrene	11.066	178	195913	97.72	ng/ml	100	
20) Anthracene	11.118	178	34190	18.34	ng/ml	99	
21) Carbazole	11.287	167	1356	0.90	ng/ml	88	
22) 1-Methylphenanthrene	11.689	192	6815	4.89	ng/ml	96	
23) Fluoranthene	12.319	202	111142	55.03	ng/ml	95	
25) Pyrene	12.599	202	139259	58.23	ng/ml	99	
27) Benz(a)anthracene	14.708	228	24439	13.75	ng/ml#	60	
28) Chrysene	14.784	228	28463	16.93	ng/ml	98	
30) Benzo(b)fluoranthene	17.291	252	27118	15.56	ng/ml	90	
31) Benzo(k)fluoranthene	17.291	252	33779	19.68	ng/ml	89	
32) Benzo(b+k)fluoranthene	17.291	252	36401	20.42	ng/ml	89	
34) Benzo(e)pyrene	17.938	252	18621	10.57	ng/ml	98	
35) Benzo(a)pyrene	18.054	252	27821	18.65	ng/ml	96	
36) Perylene	18.252	252	8088	4.40	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.590	276	20013	12.29	ng/ml	79	
39) Dibenz(a,h)anthracene	20.648	278	2468	1.61	ng/ml	94	
40) Benzo(g,h,i)perylene	21.120	276	24771	14.34	ng/ml	97	

*NR*

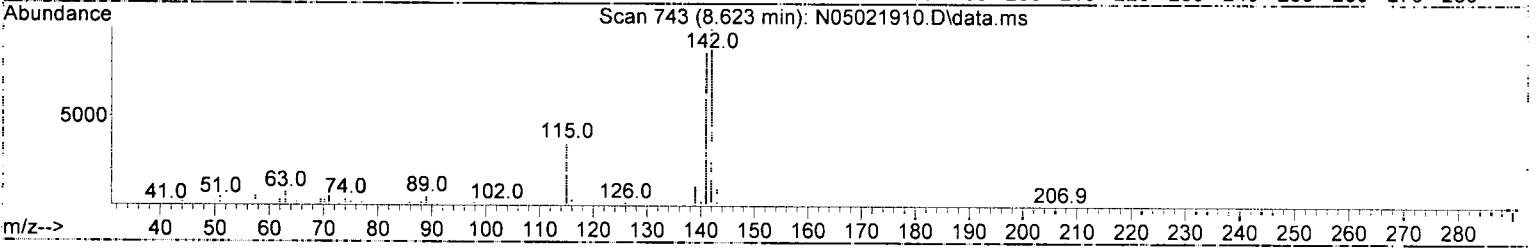
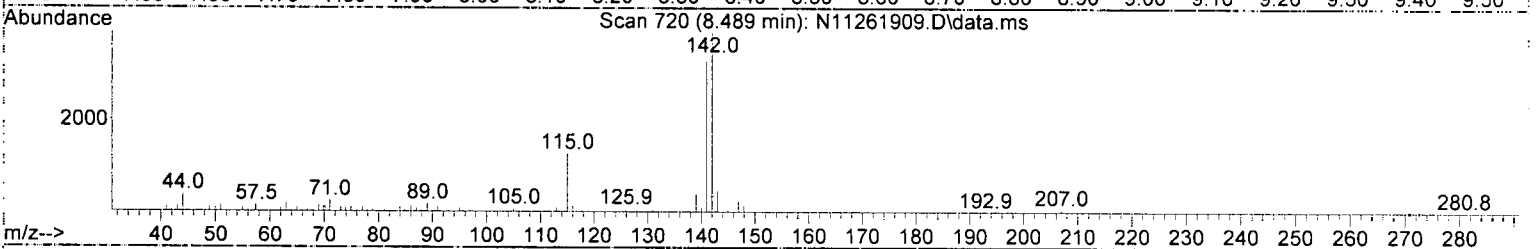
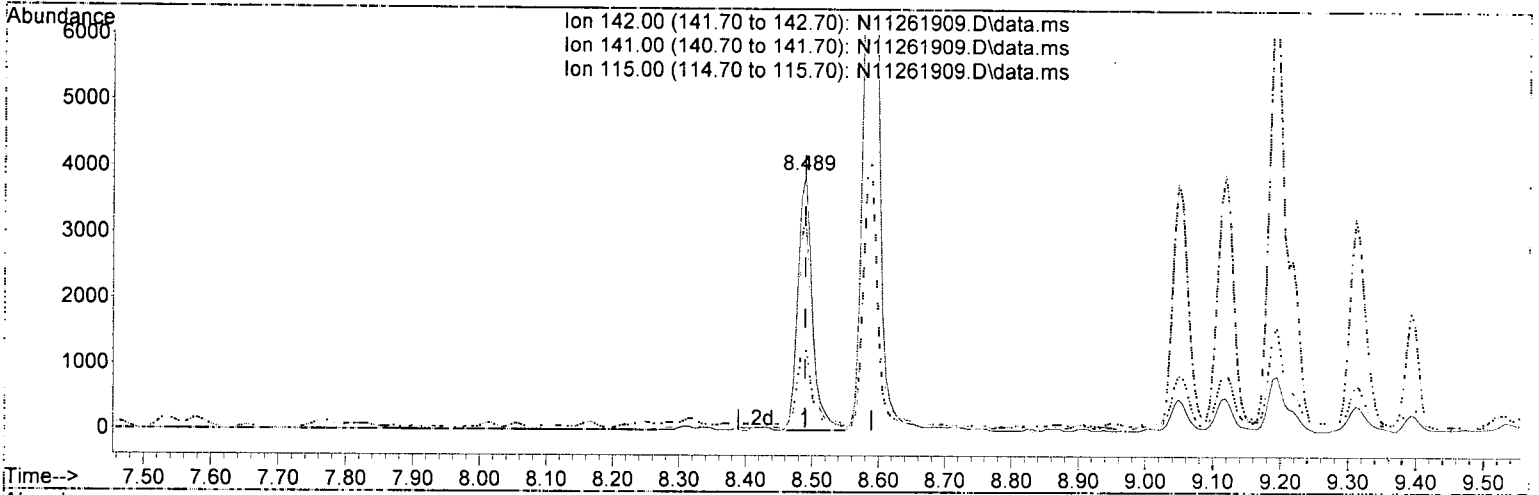
*MS - MOS*

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

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 15:57:28 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(5) 2-Methylnaphthalene (T)

8.489min (-0.000) 3.68 ng/ml

response 5949

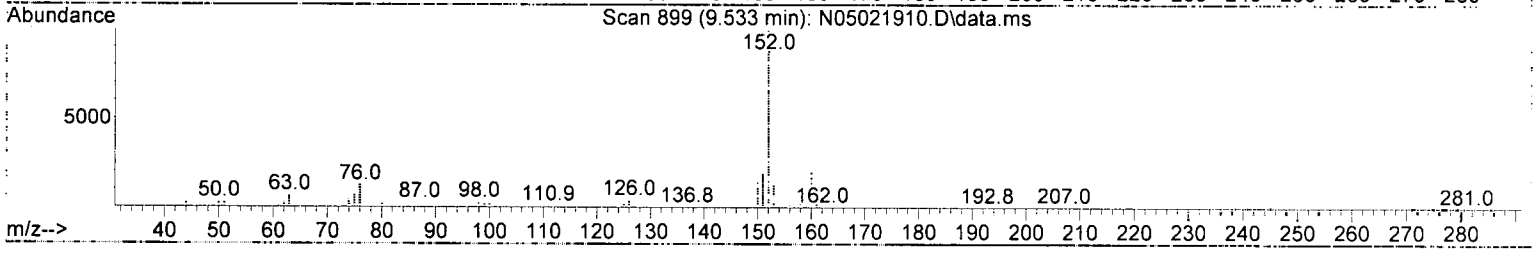
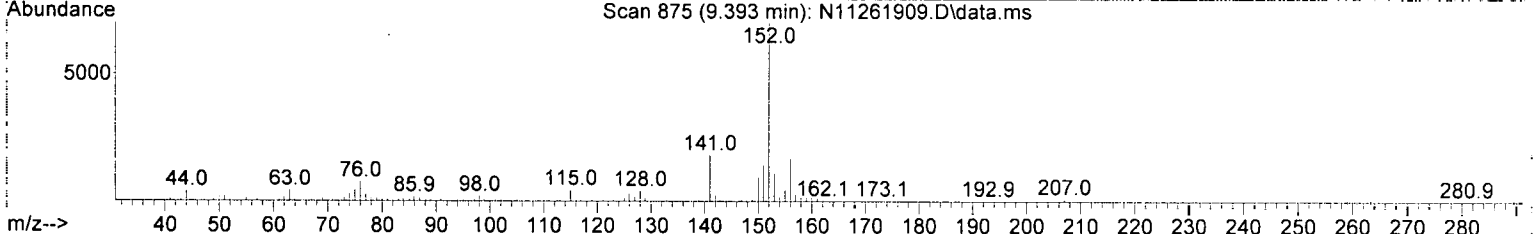
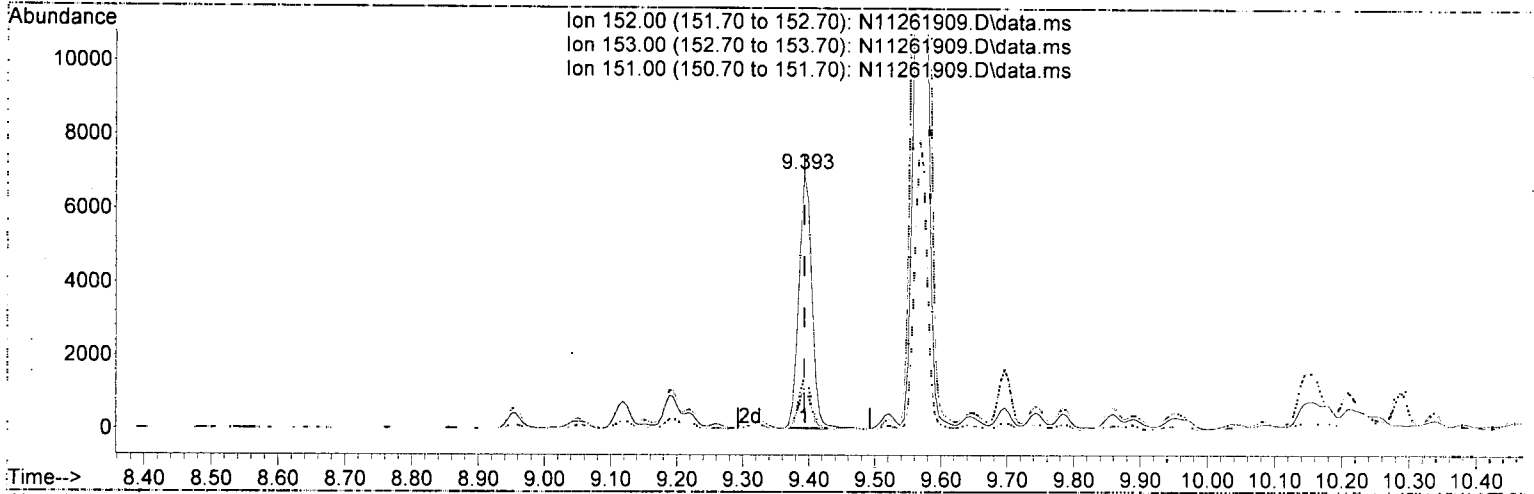
Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	84.36
115.00	35.70	32.55
0.00	0.00	0.00

J

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(12) Acenaphthylene (T)

9.393min (-0.000) 4.15 ng/ml

response 9517

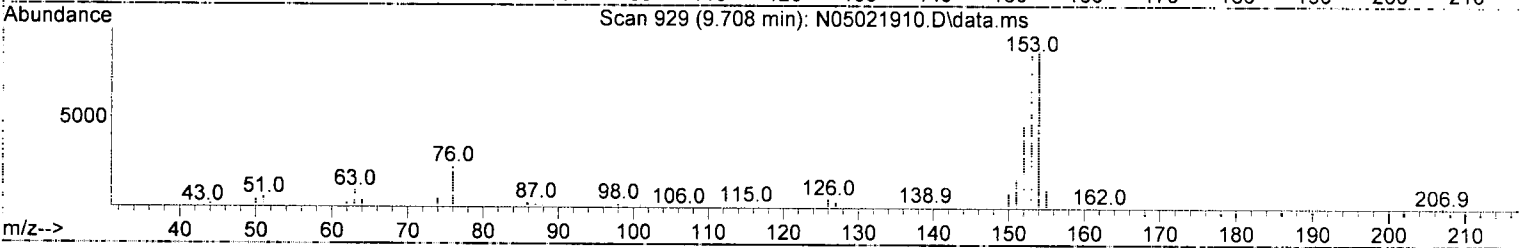
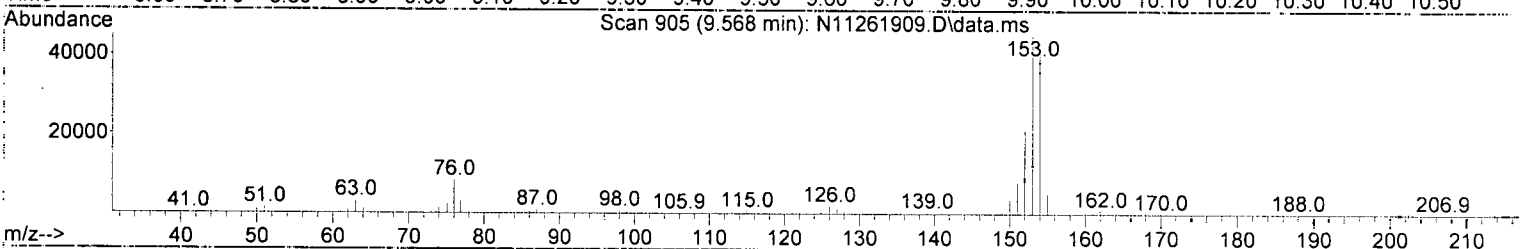
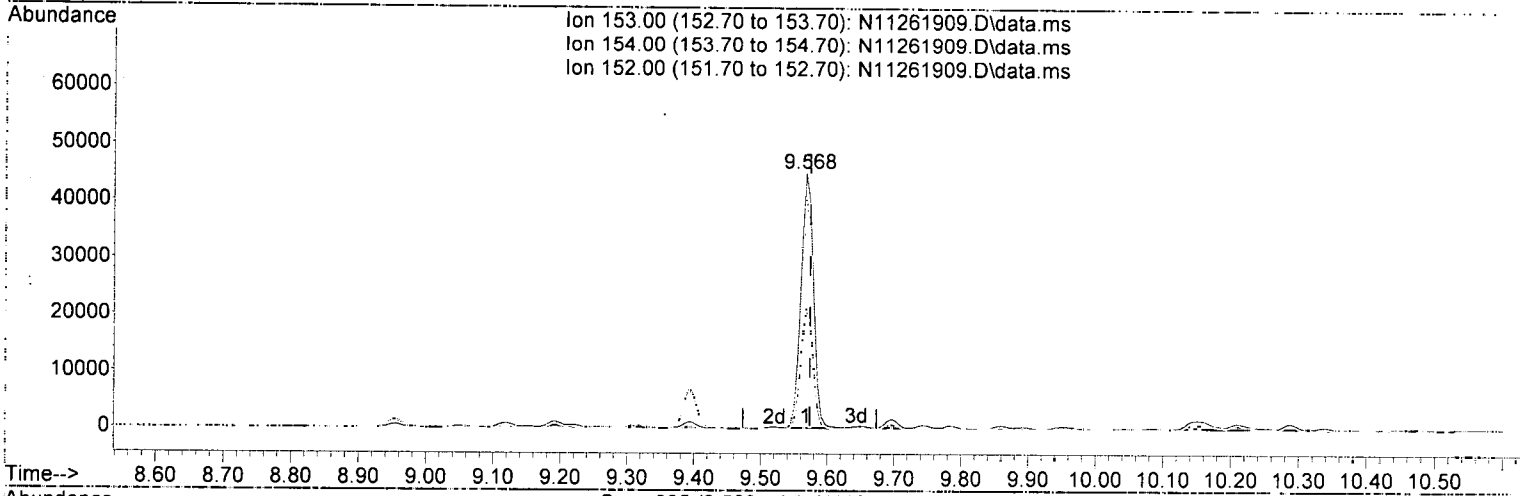
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.87
151.00	19.30	20.39
0.00	0.00	0.00

5

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(13) Acenaphthene (T)

9.568min (-0.006) 39.46 ng/ml

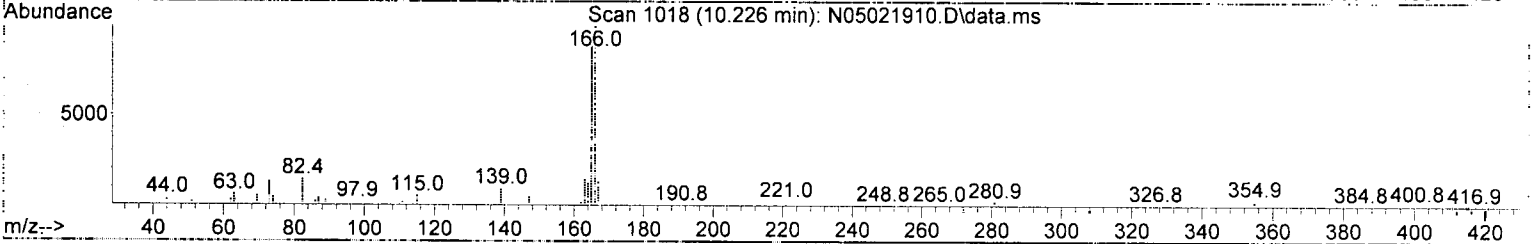
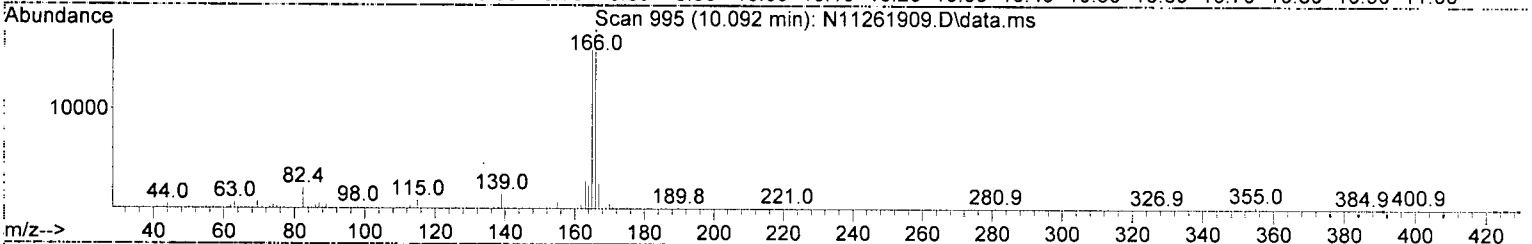
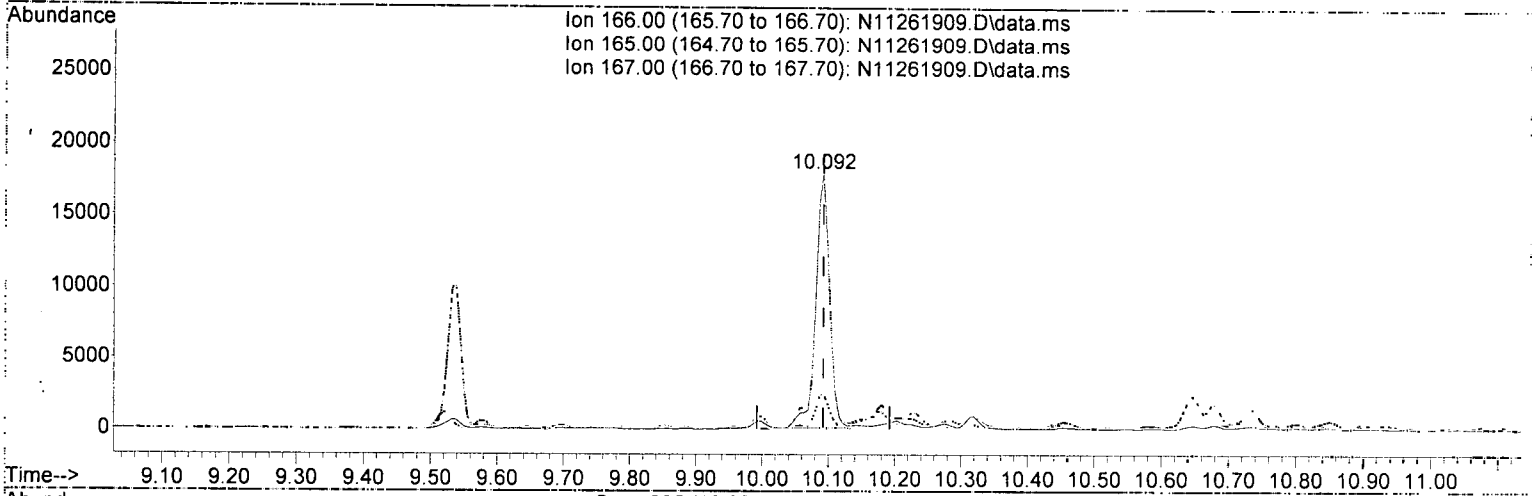
response 59226

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.32
152.00	46.80	46.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(16) Fluorene (T)

10.092min (-0.000) 16.98 ng/ml

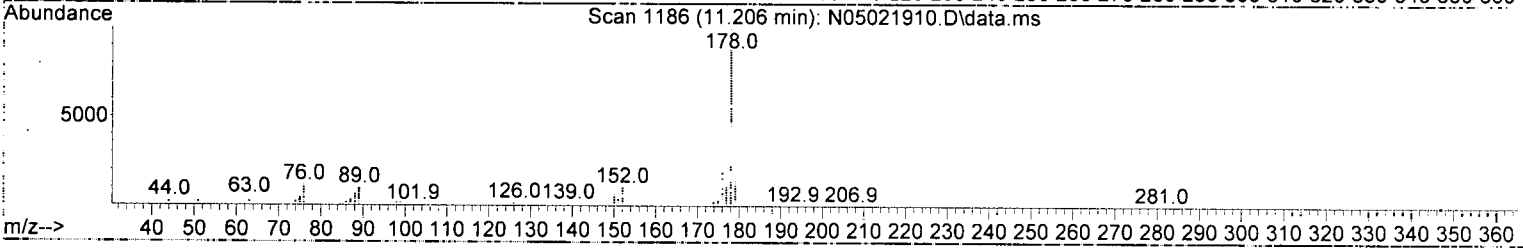
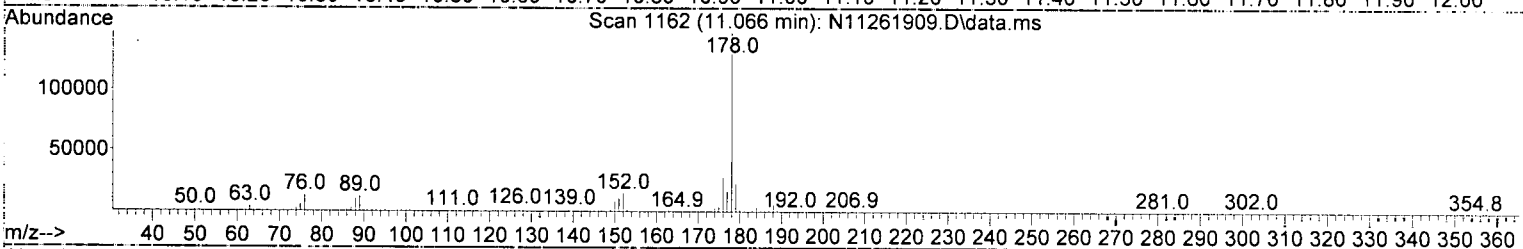
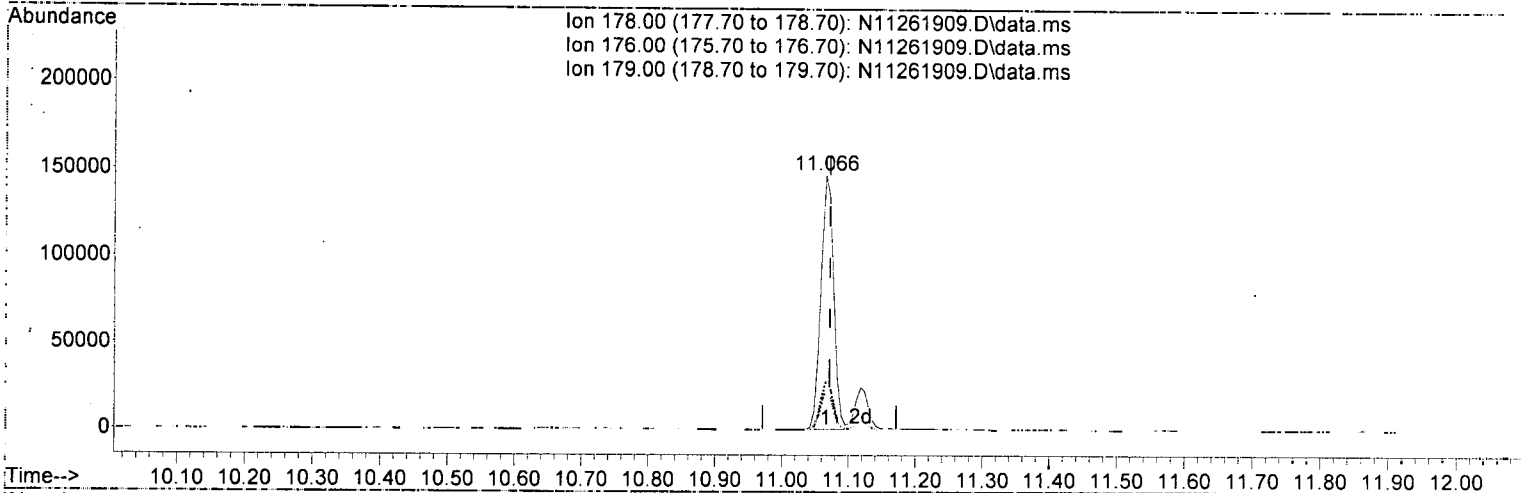
response 26075

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.86
167.00	13.60	14.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(19) Phenanthrene (T)

11.066min (-0.006) 97.72 ng/ml

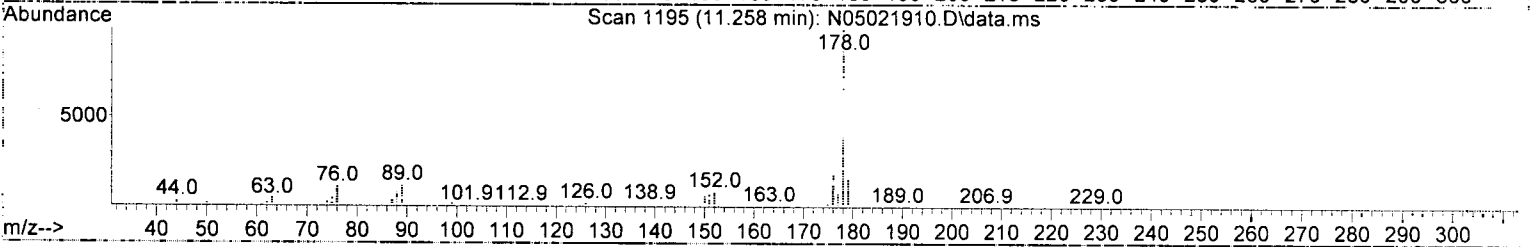
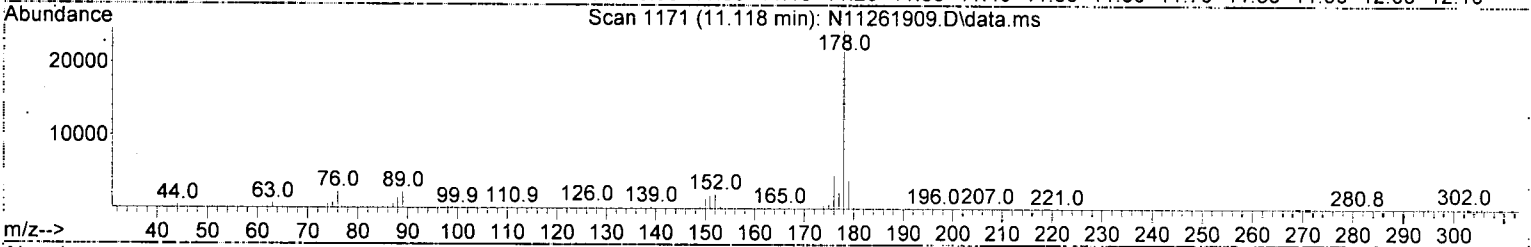
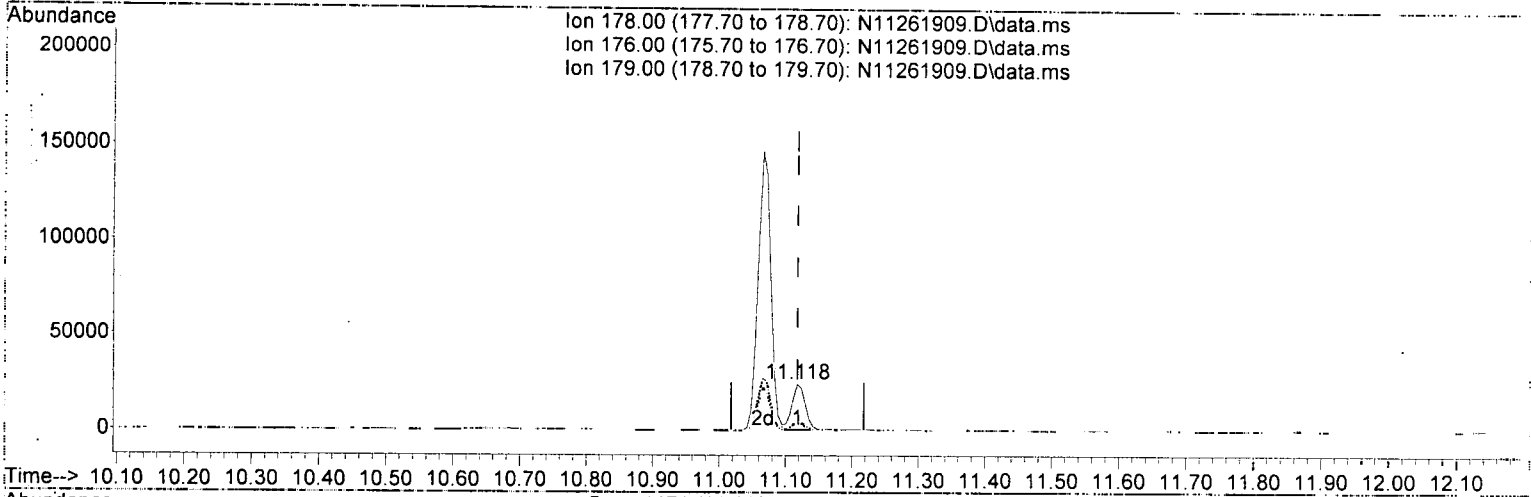
response 195913

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.02
179.00	15.10	15.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(20) Anthracene (T)

11.118min (-0.000) 18.34 ng/ml

response 34190

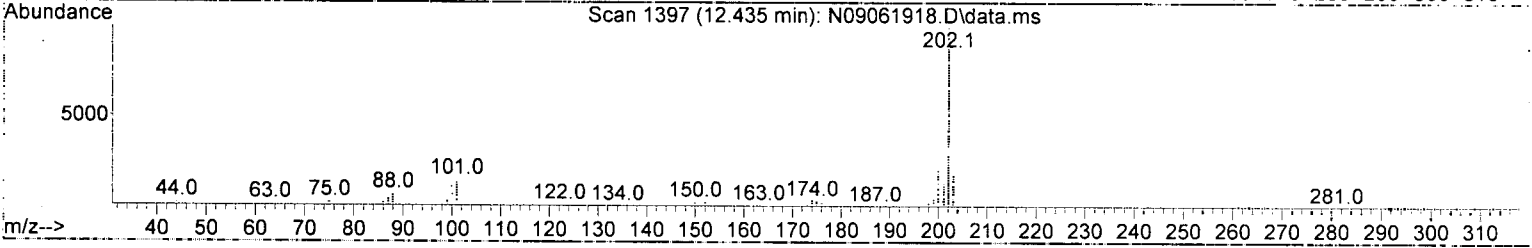
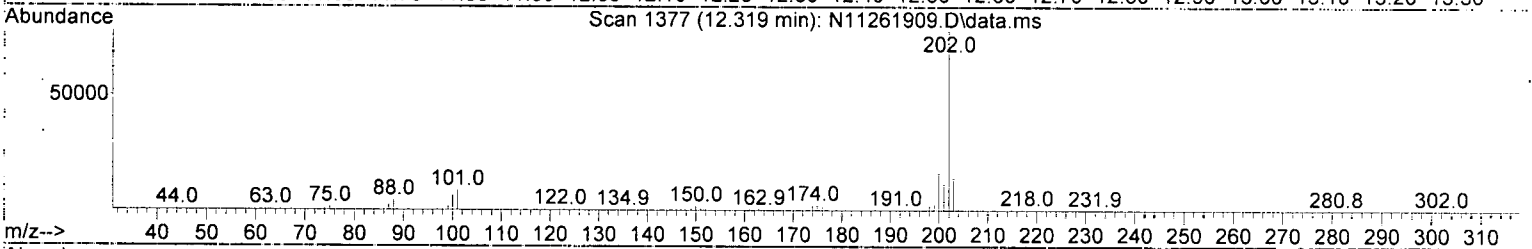
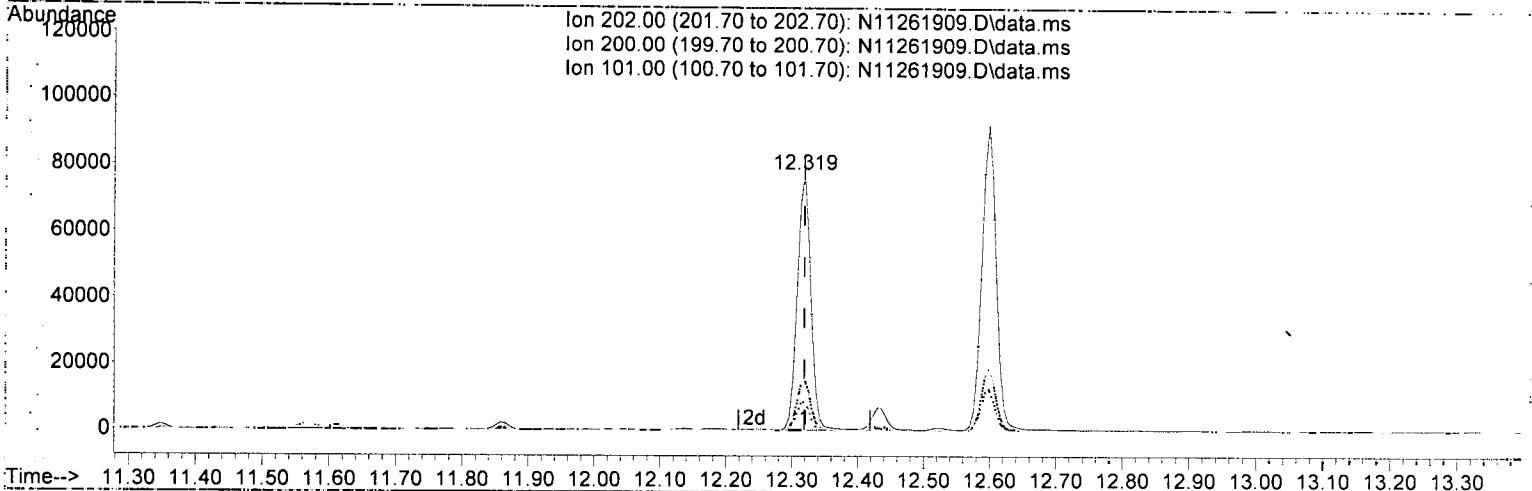
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.72
179.00	15.30	15.83
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(23) Fluoranthene (T)

12.319min (-0.000) 55.03 ng/ml

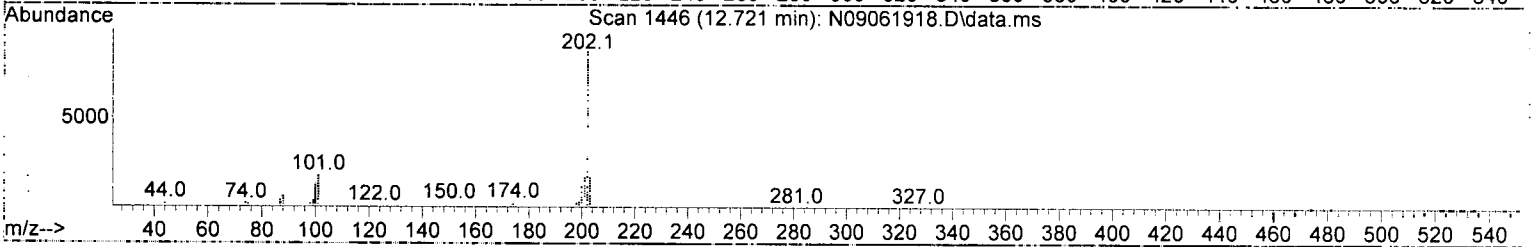
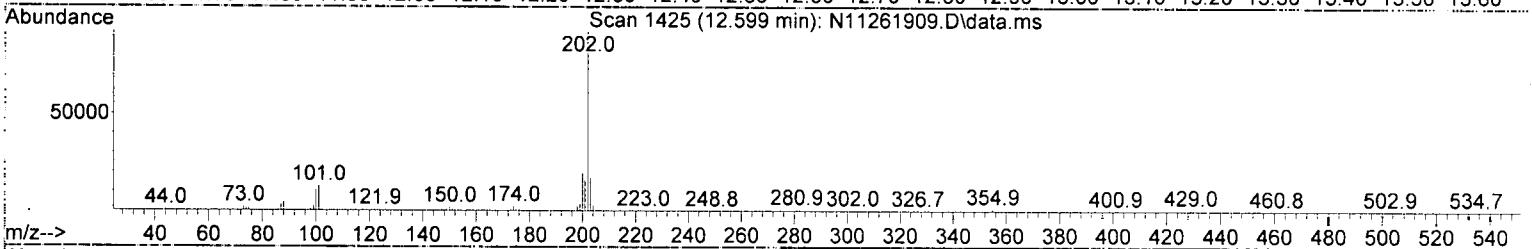
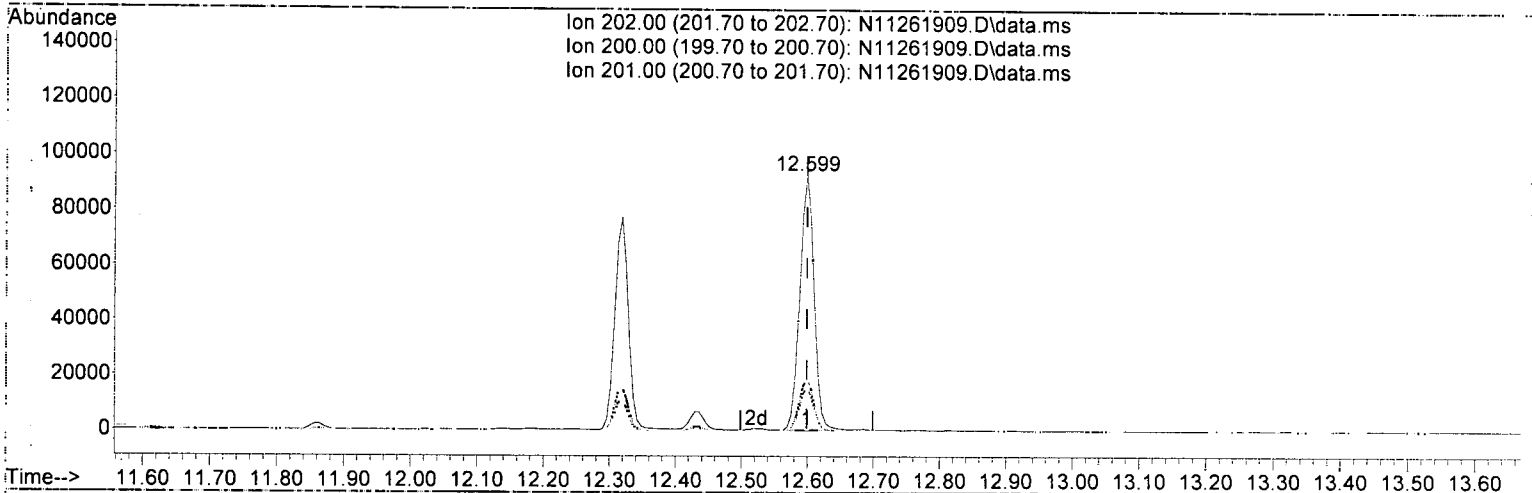
response 111142

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.44
101.00	15.30	11.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(25) Pyrene (T)

12.599min (-0.000) 58.23 ng/ml

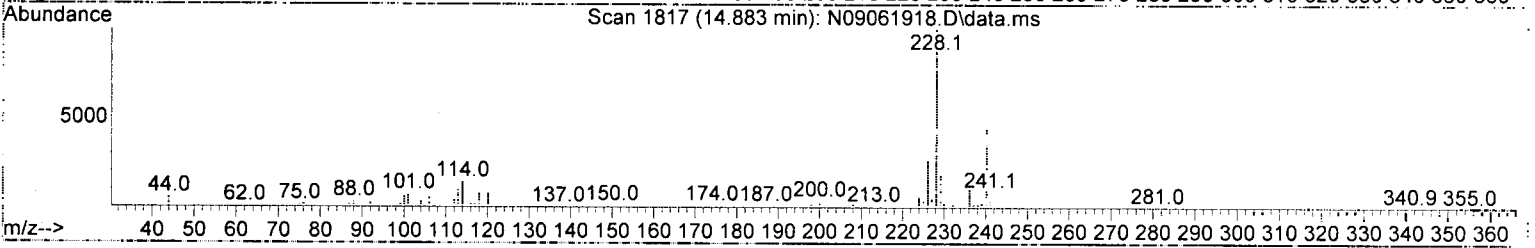
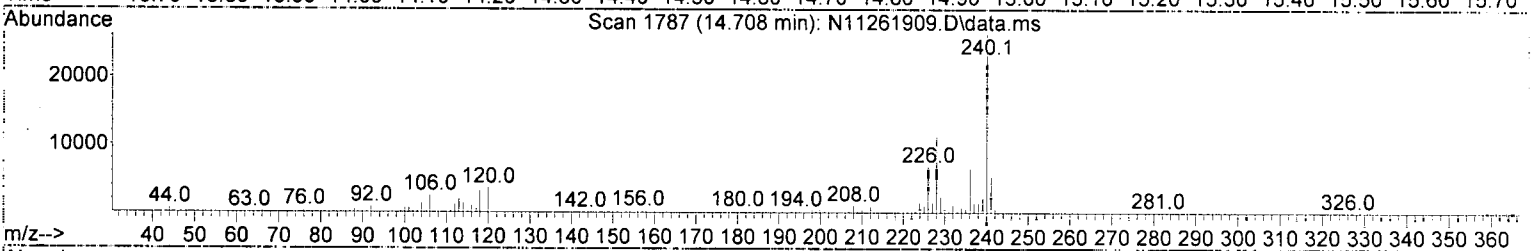
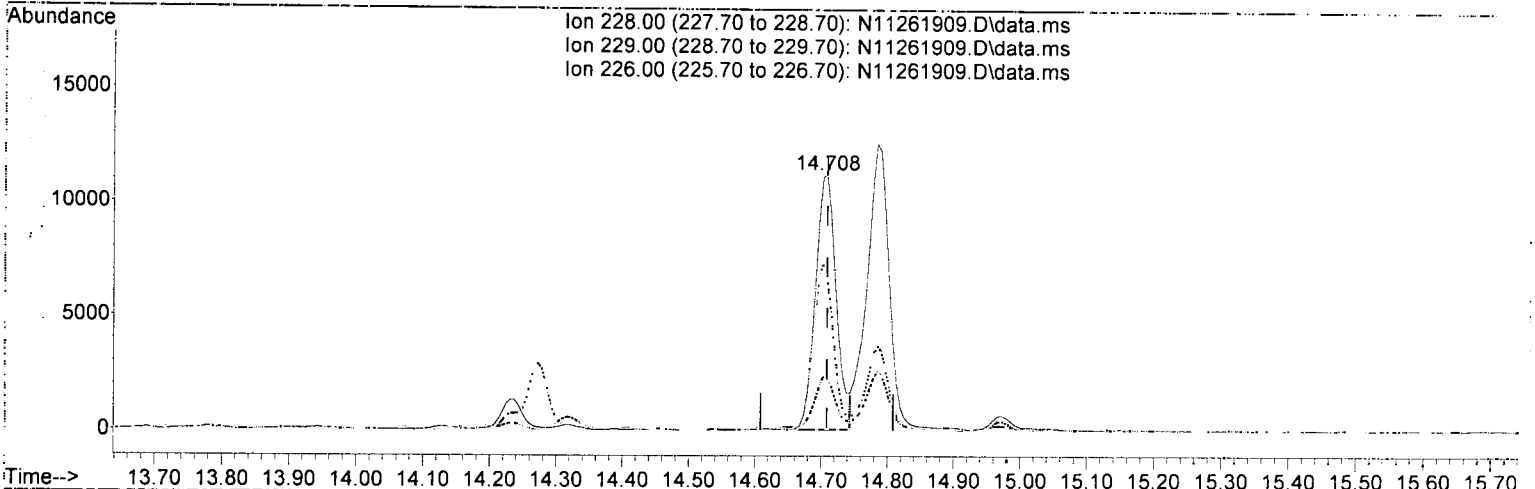
response 139259

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.52
201.00	16.80	17.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(27) Benz(a)anthracene (T)

14.708min (-0.000) 13.75 ng/ml

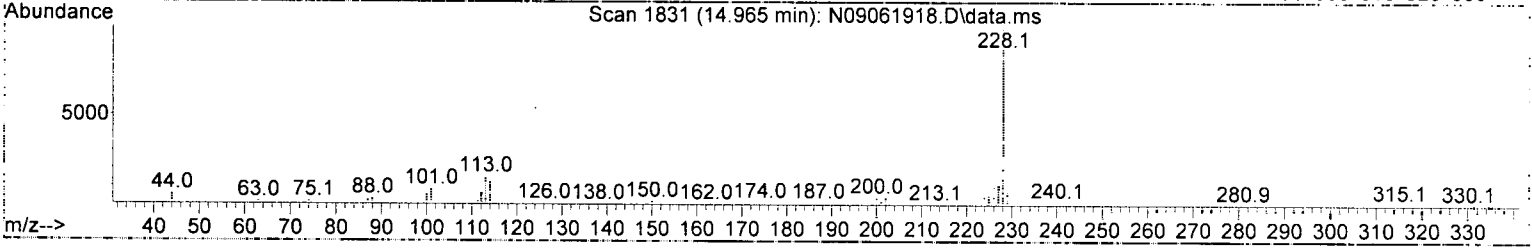
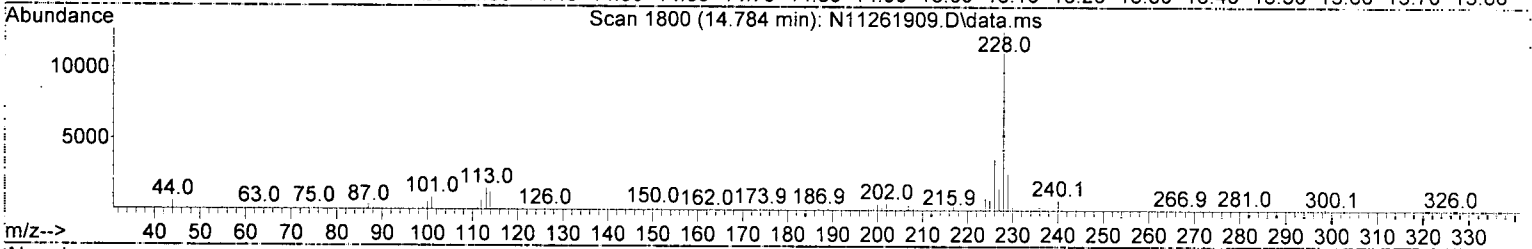
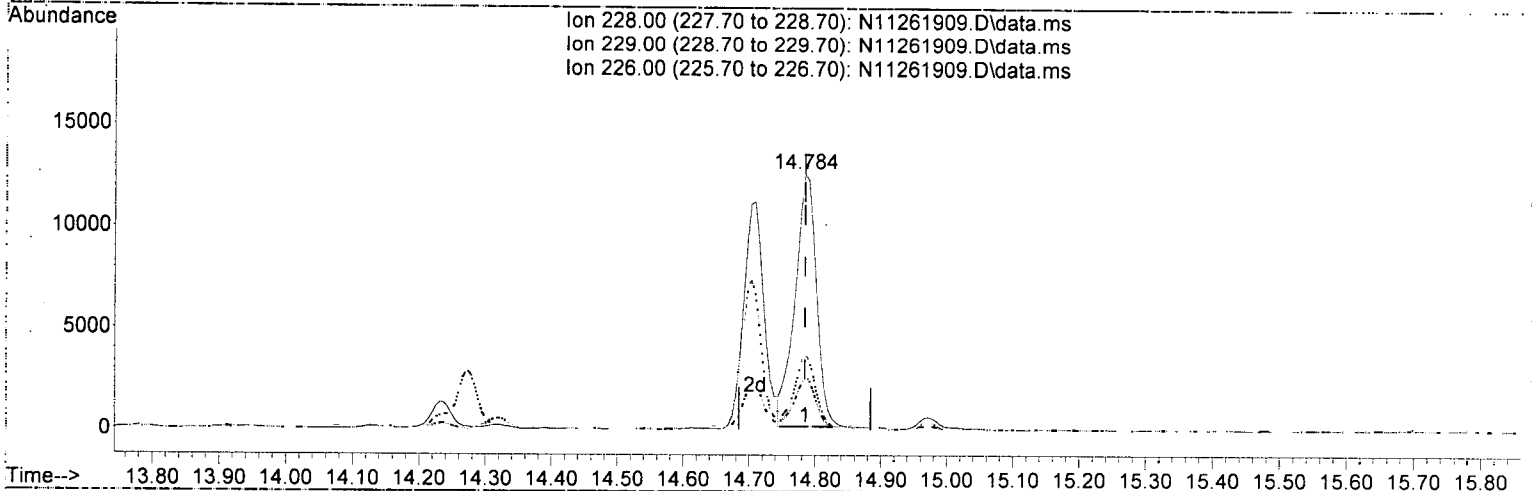
response 24439

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	21.07
226.00	26.20	60.49#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(28) Chrysene (T)

14.784min (-0.000) 16.93 ng/ml

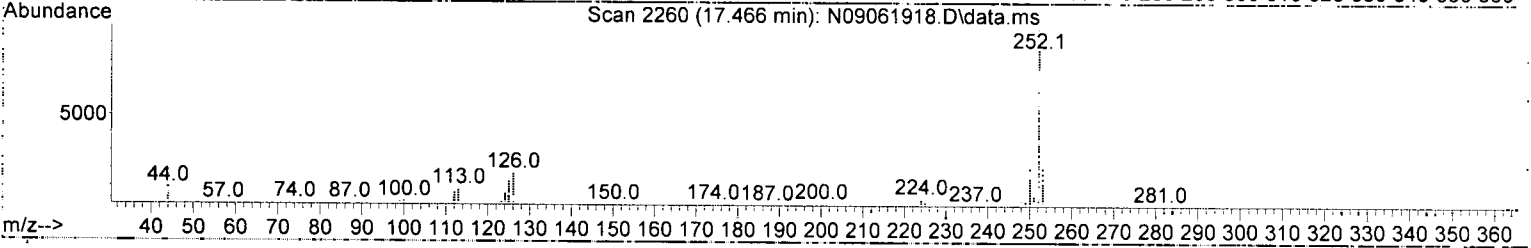
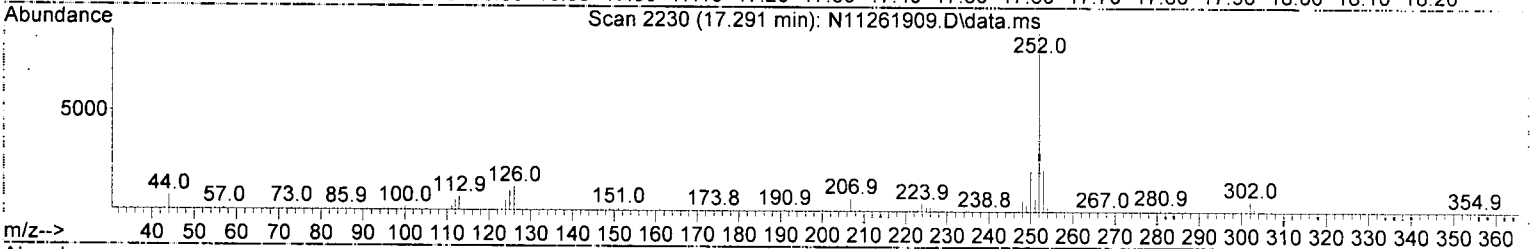
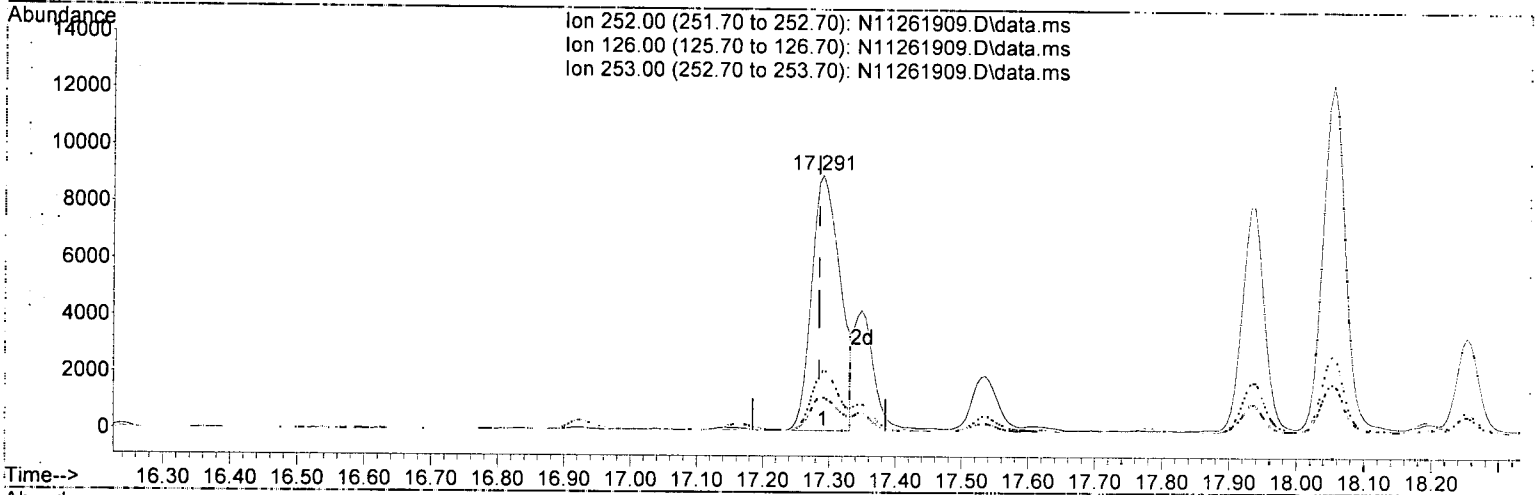
response 28463

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.64
226.00	28.60	29.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.291min (+ 0.006) 15.56 ng/ml

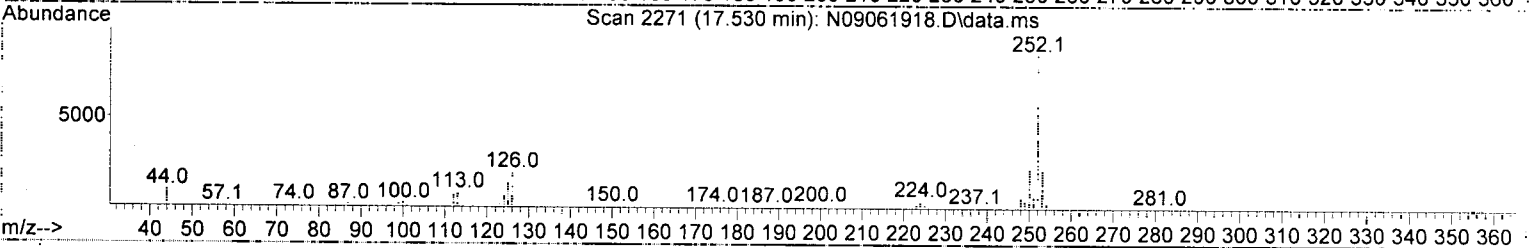
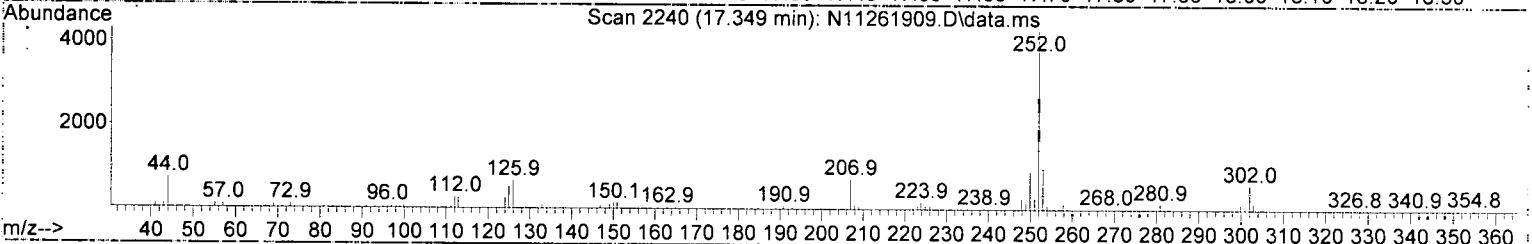
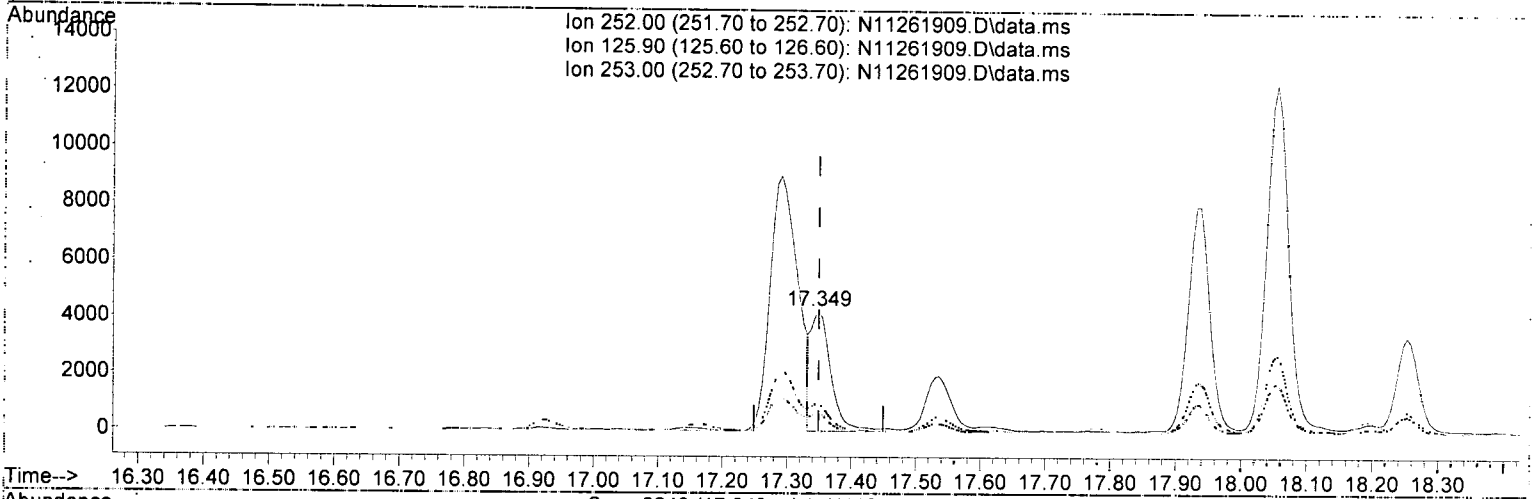
response 27118

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.36
253.00	21.10	23.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.349min (-0.000) 5.23 ng/ml

response 8969

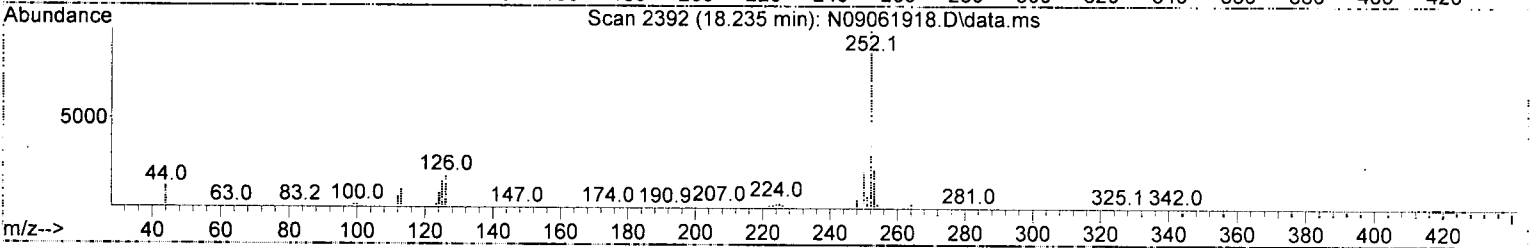
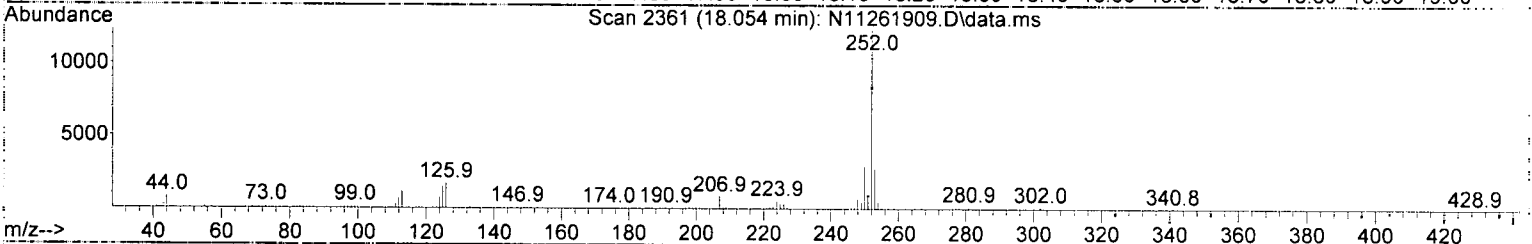
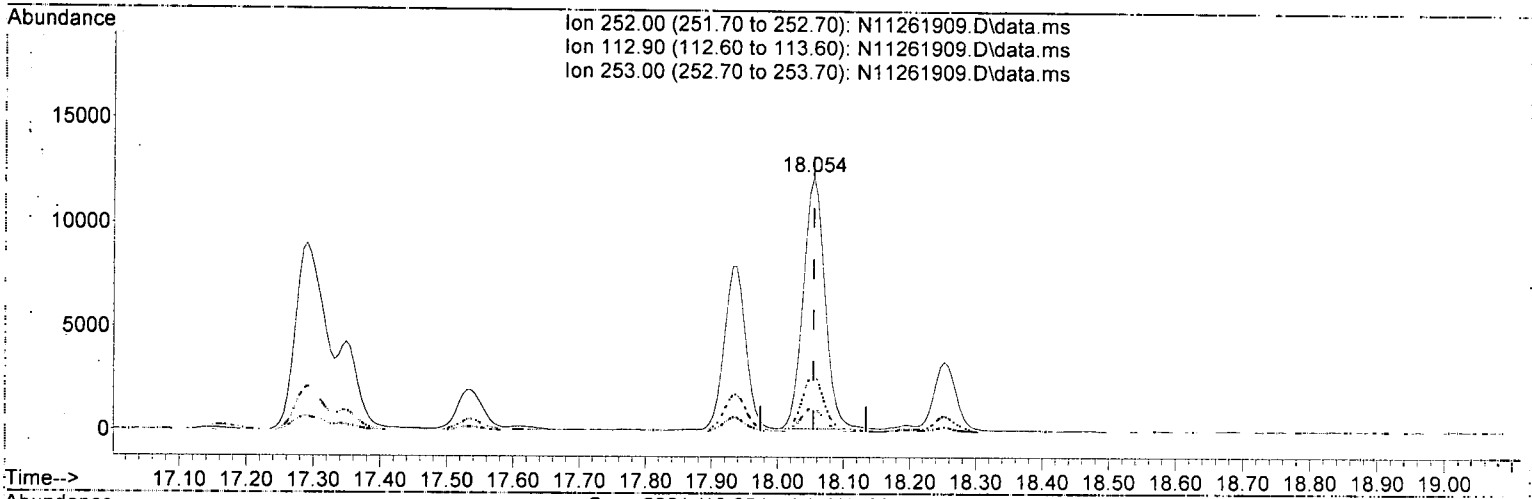
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.73
253.00	21.50	22.75
0.00	0.00	0.00

*AMS*  
*12/2/19*

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(35) Benzo(a)pyrene (T)

18.054min (-0.000) 18.65 ng/ml

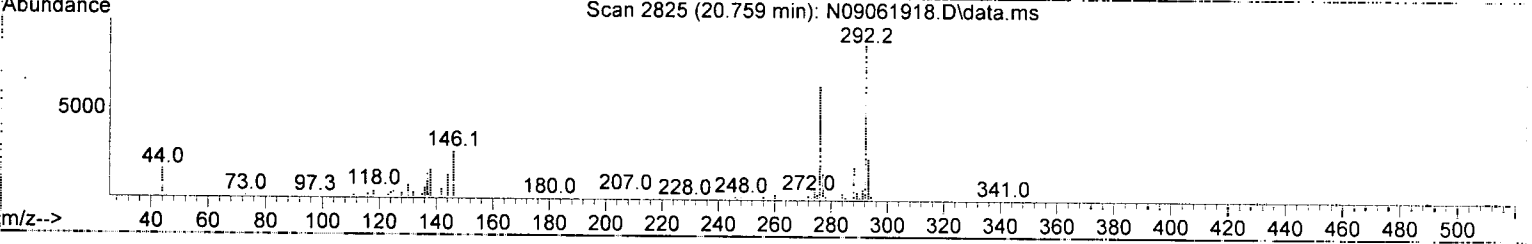
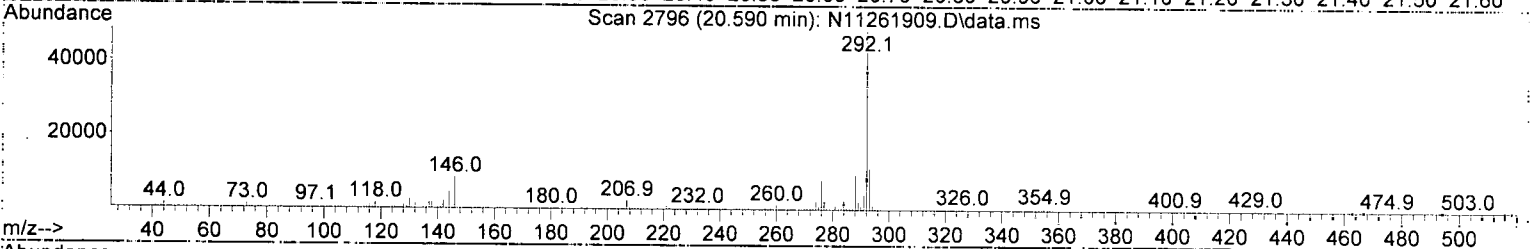
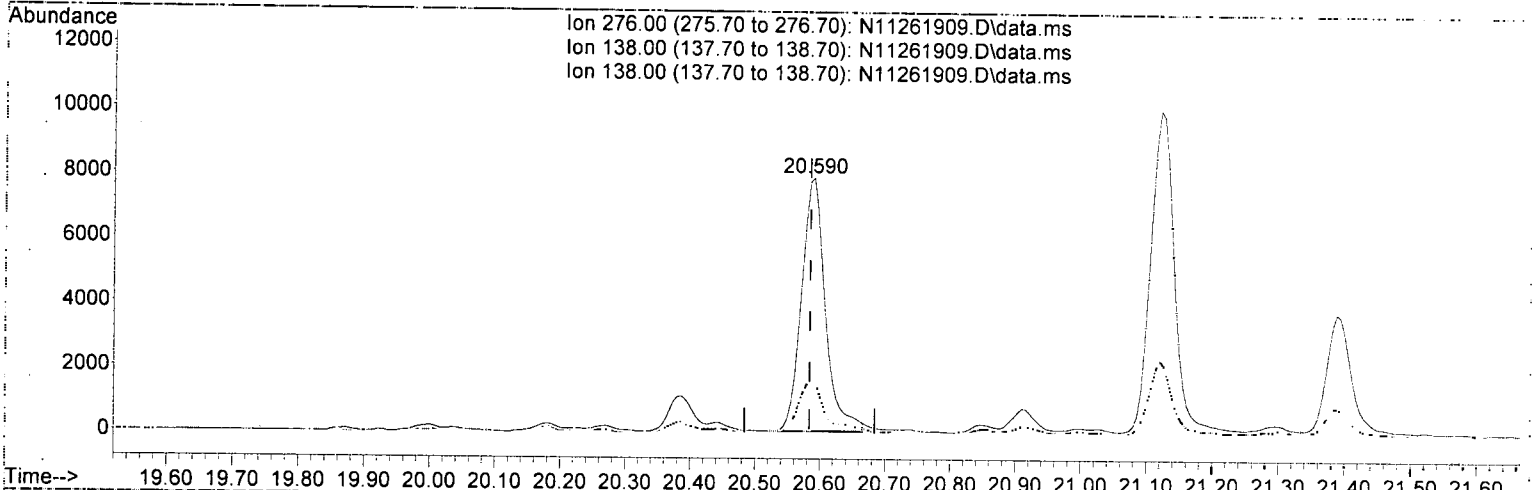
response 27821

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.14
253.00	21.90	22.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.590min (+ 0.006) 12.29 ng/ml

response 20013

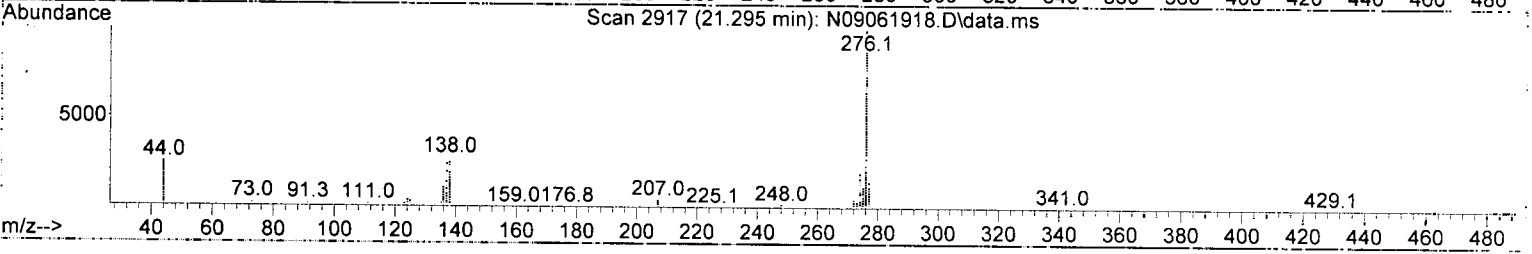
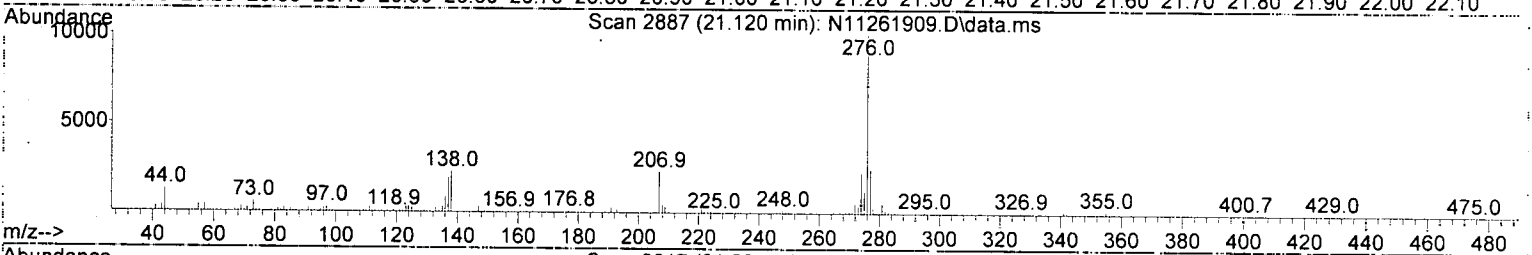
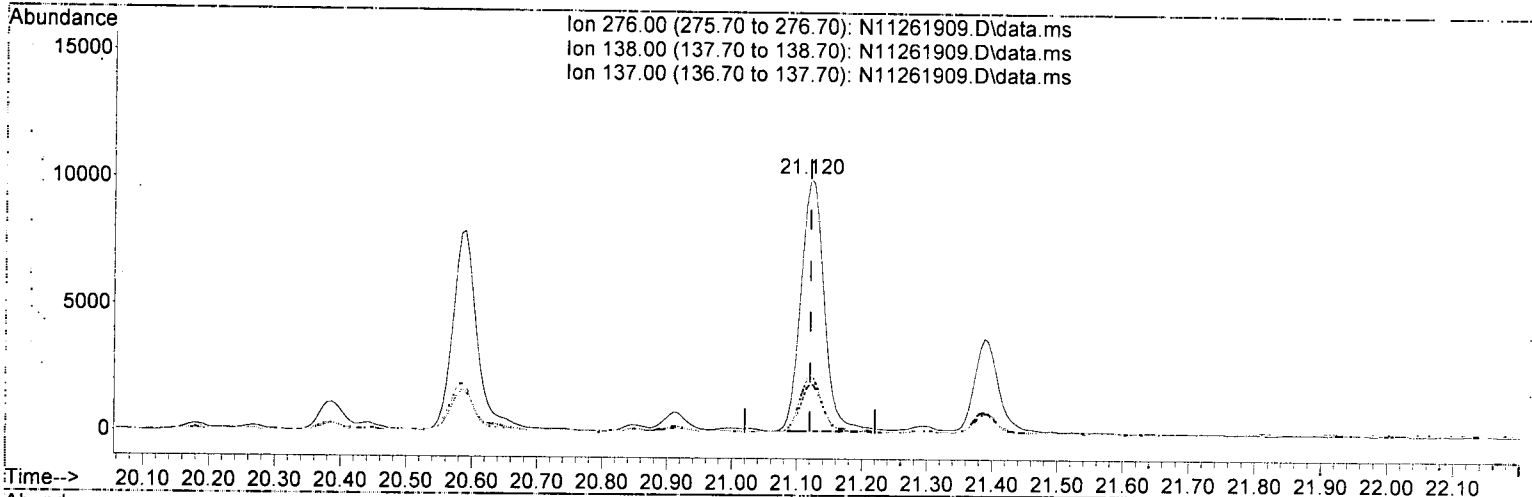
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	20.21
138.00	31.60	20.21
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261909.D  
 Acq On : 26 Nov 2019 05:24 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-03@10000  
 Misc : 10000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261909.D\data.ms

(40) Benzo(g,h,i)perylene (T)

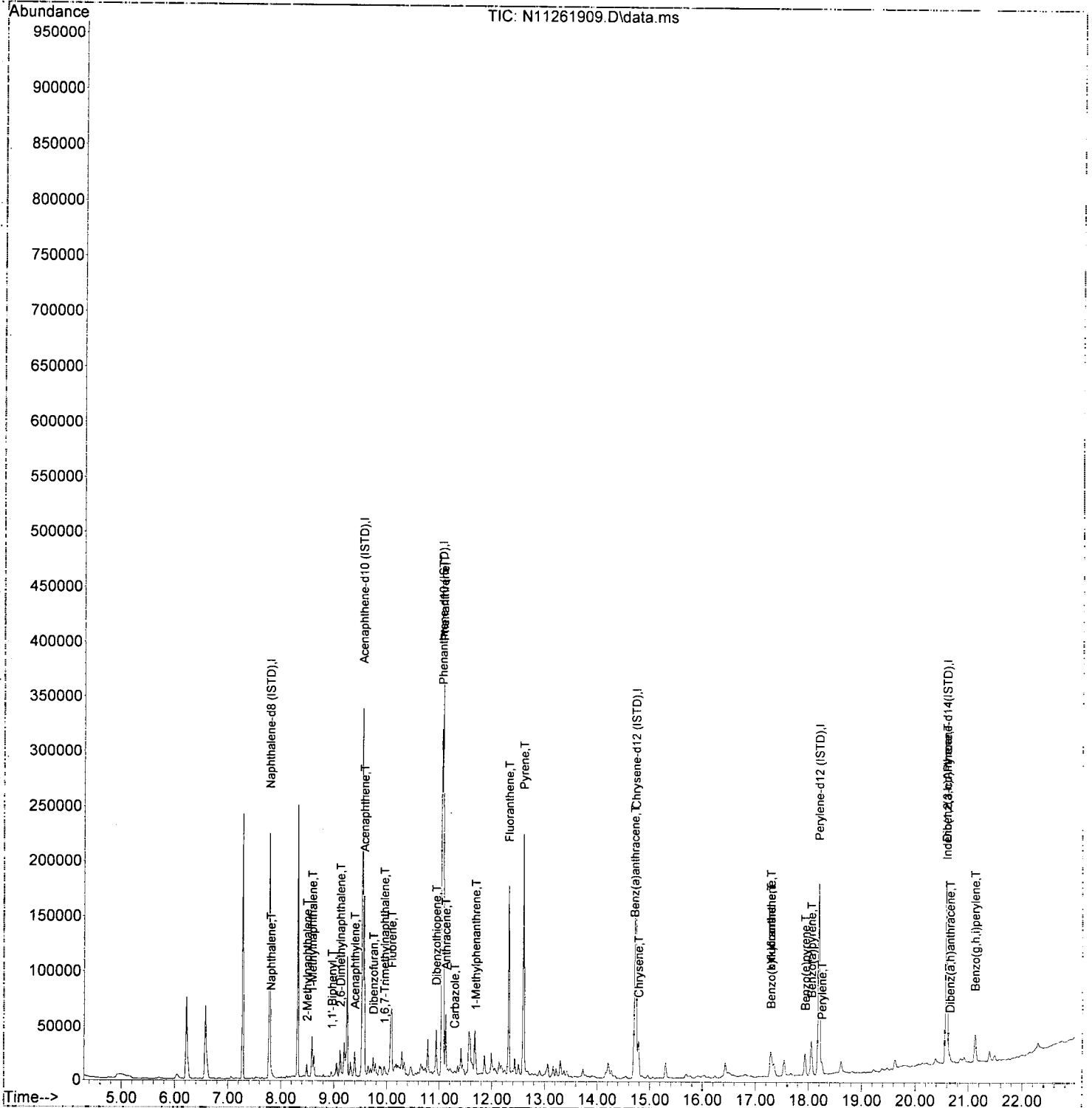
21.120min (-0.000) 14.34 ng/ml

response 24771

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	22.90
137.00	18.60	19.72
0.00	0.00	0.00

Data Path : U:\data\2019-11\9K26030\  
Data File : N11261909.D  
Acq On : 26 Nov 2019 05:24 pm  
Operator : JK/ AMS/ DTH  
Sample : A9I0890-03@10000  
Misc : 10000x, 8270D PAH ONLY (SCAN)  
ALS Vial : 9 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:13 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

*AMS*  
*12/2/19*      *MOS*

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

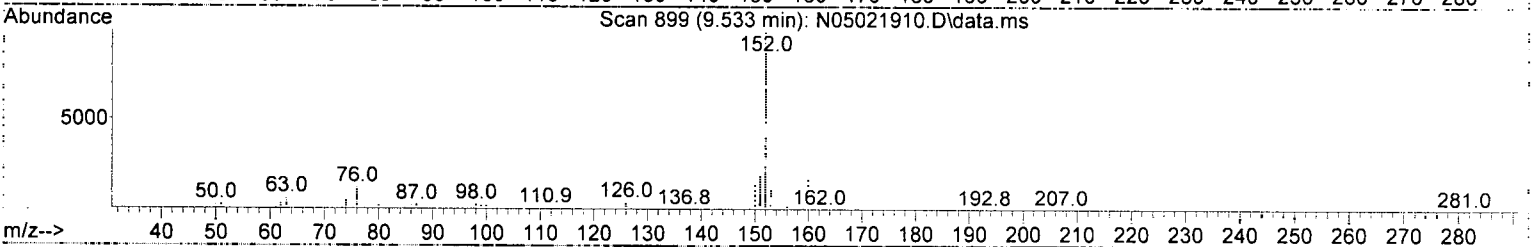
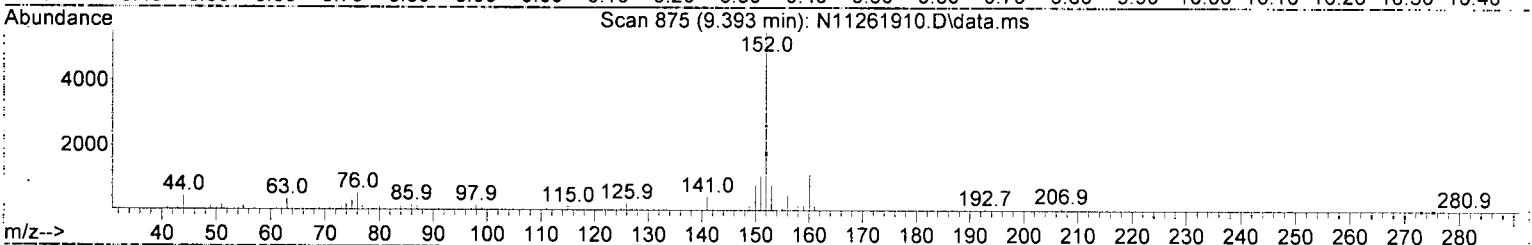
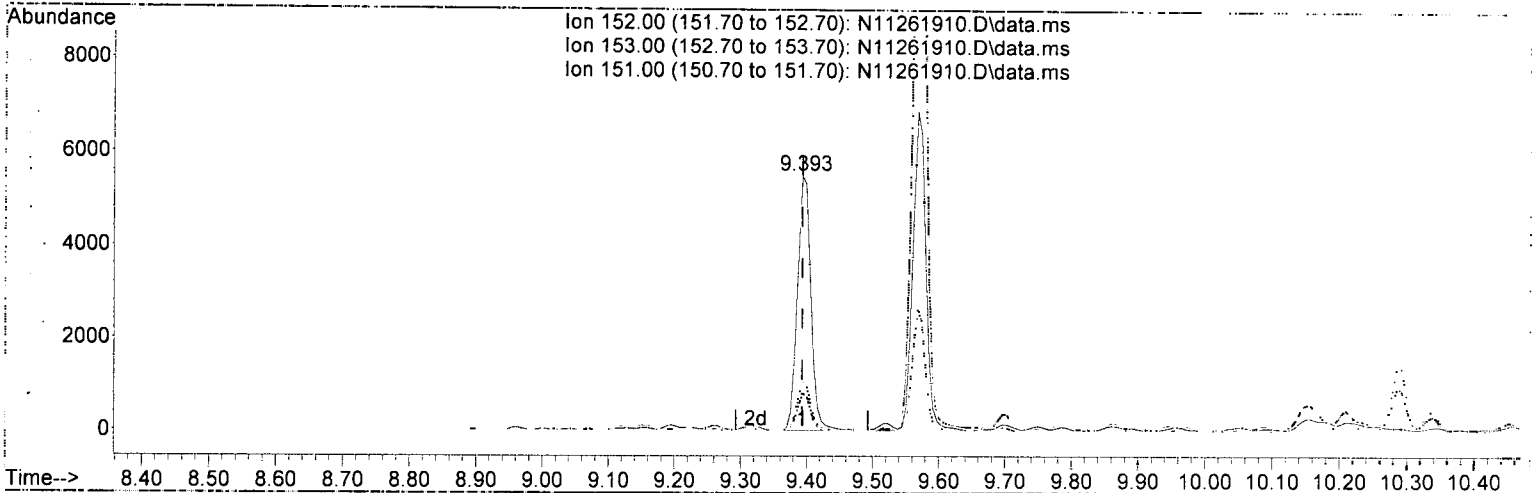
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.784	136	163743	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.539	162	95985	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	143372	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.732	240	115785	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	111335	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	94114	100.00	ng/ml	0.00	
<b>System Monitoring Compounds</b>							
2) Nitrobenzene-d5 (Surr)	7.102	82	52	0.10	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.851	172	126	0.09	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.381	160	3471	0.35	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.797	244	148	0.12	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	0.00	
<b>Target Compounds</b>							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.807	128	1491	0.83	ng/ml	100	
5) 2-Methylnaphthalene	8.489	142	247	N.D.			
6) 1-Methylnaphthalene	8.588	142	5159	NR (3.37)	ng/ml	98	
7) 1,1'-Biphenyl	8.956	154	158	N.D.			
8) 2,6-Dimethylnaphthalene	9.119	156	781	0.52	ng/ml	88	
12) Acenaphthylene	9.393	152	7866	(3.77)	ng/ml	98	
13) Acenaphthene	9.568	153	19600	14.36	ng/ml	100	
14) Dibenzofuran	9.748	168	487	N.D.			
15) 1,6,7-Trimethylnaphtha...	9.952	170	541	0.47	ng/ml#	57	
16) Fluorene	10.092	166	2997	2.15	ng/ml	98	
18) Dibenzothiopene	10.943	184	7023	4.68	ng/ml	95	
19) Phenanthrene	11.066	178	7037	(4.19)	ng/ml	98	✓
20) Anthracene	11.124	178	3783	2.42	ng/ml	96	
21) Carbazole	11.293	167	247	N.D.			
22) 1-Methylphenanthrene	11.683	192	2431	2.09	ng/ml#	44	
23) Fluoranthene	12.319	202	46453	27.48	ng/ml	96	
25) Pyrene	12.599	202	107461	59.41	ng/ml	100	
27) Benz(a)anthracene	14.709	228	16688	12.41	ng/ml	70	
28) Chrysene	14.784	228	17969	14.13	ng/ml	99	
30) Benzo(b)fluoranthene	17.296	252	19497	15.18	ng/ml	91	
31) Benzo(k)fluoranthene	17.296	252	24985	19.75	ng/ml	89	
32) Benzo(b+k)fluoranthene	17.296	252	26695	20.32	ng/ml	89	
34) Benzo(e)pyrene	17.938	252	13073	10.06	ng/ml	98	
35) Benzo(a)pyrene	18.054	252	19814	18.02	ng/ml	96	
36) Perylene	18.252	252	5642	4.17	ng/ml	100	
38) Indeno(1,2,3-cd)Pyrene	20.590	276	14165	12.20	ng/ml	79	
39) Dibenz(a,h)anthracene	20.648	278	1726	1.58	ng/ml	90	
40) Benzo(g,h,i)perylene	21.126	276	17820	14.47	ng/ml	99	

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

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(12) Acenaphthylene (T)

9.393min (-0.000) 3.77 ng/ml

response 7866

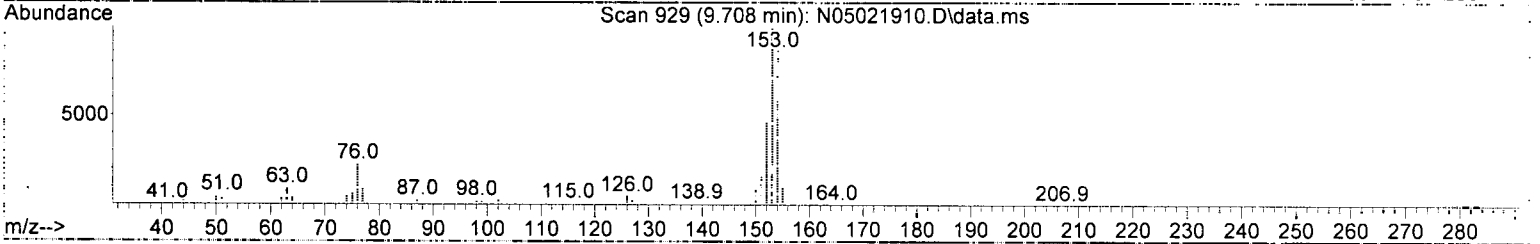
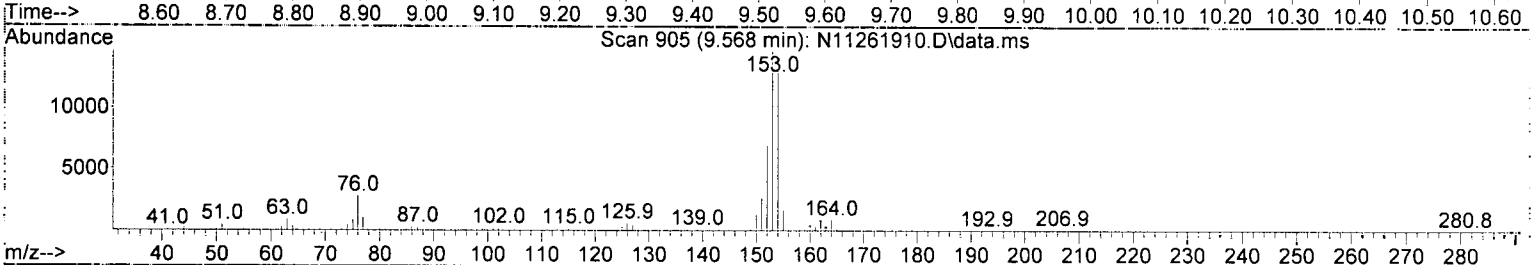
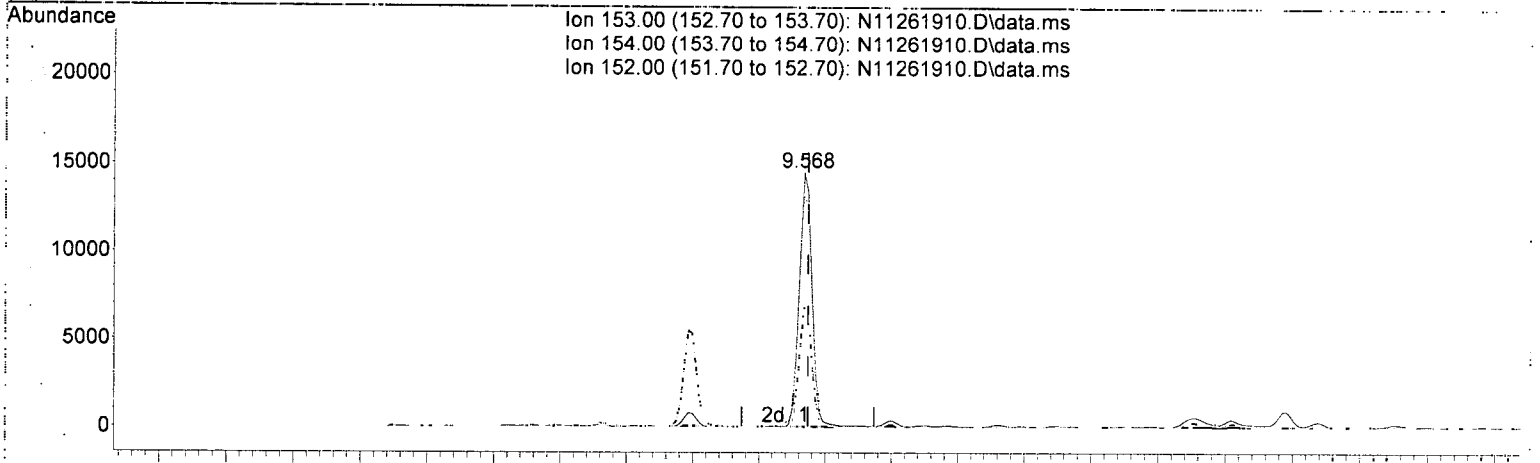
Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	14.46
151.00	19.30	19.46
0.00	0.00	0.00

*J*

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(13) Acenaphthene (T)

9.568min (-0.006) 14.36 ng/ml

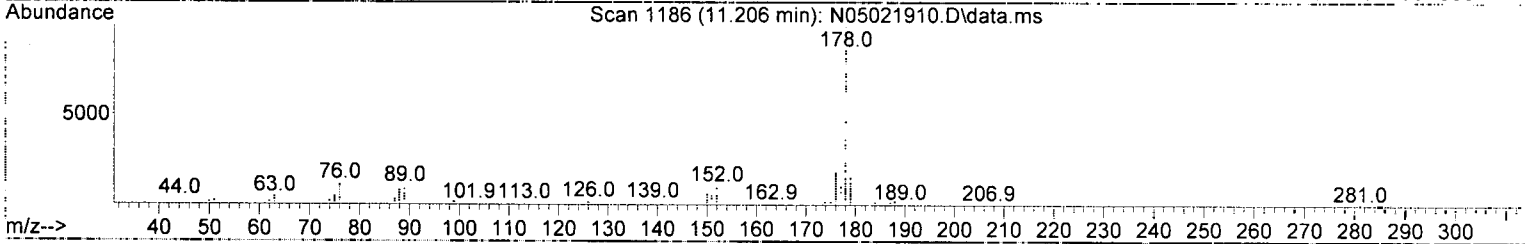
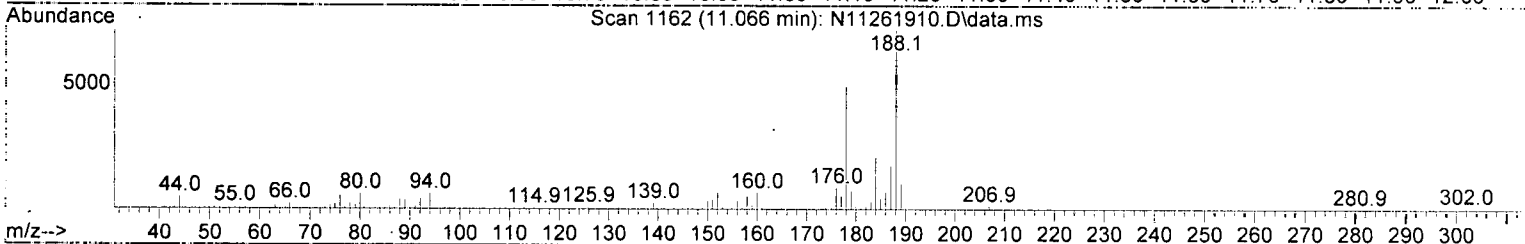
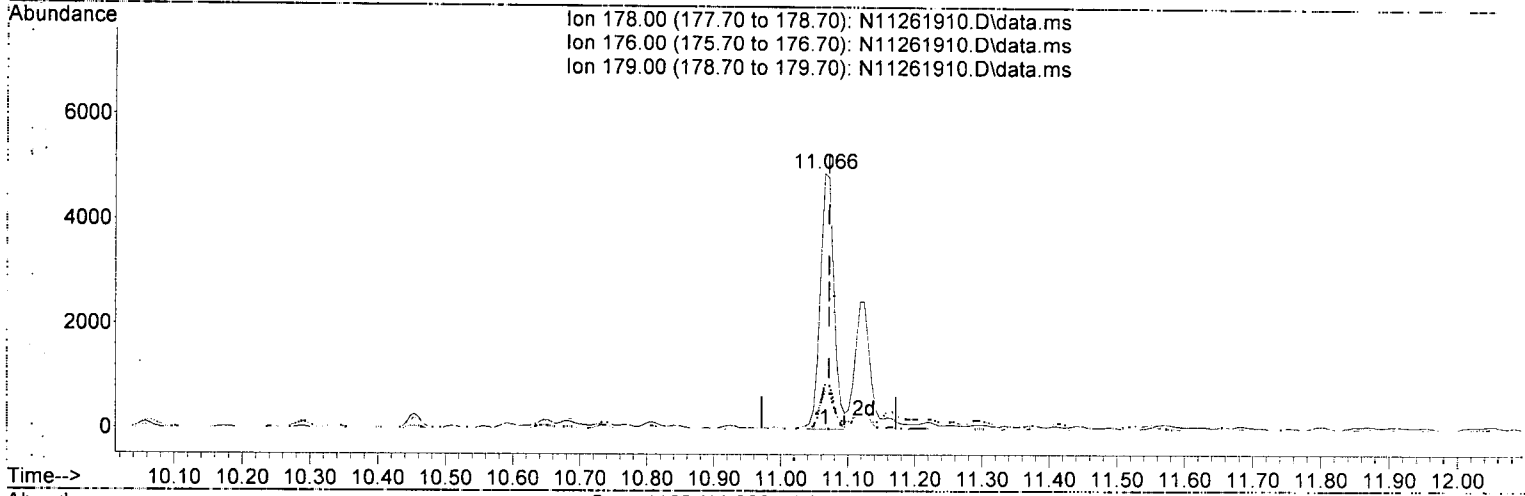
response 19600

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.74
152.00	46.80	47.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(19) Phenanthrene (T)

11.066min (-0.006) 4.19 ng/ml

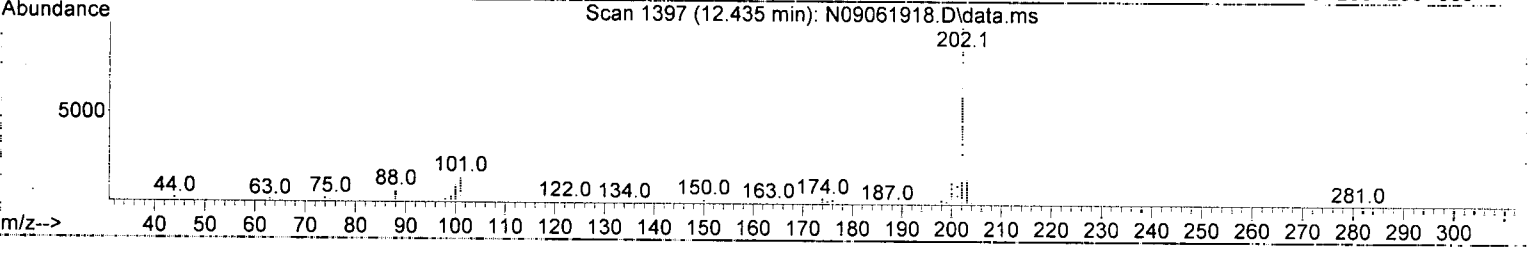
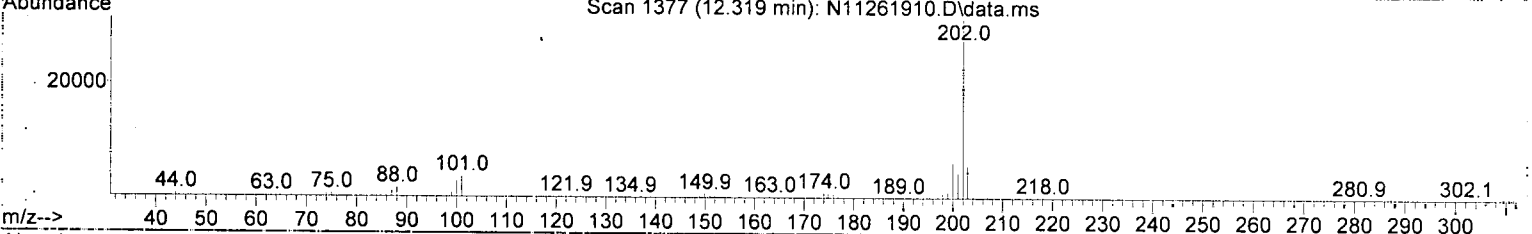
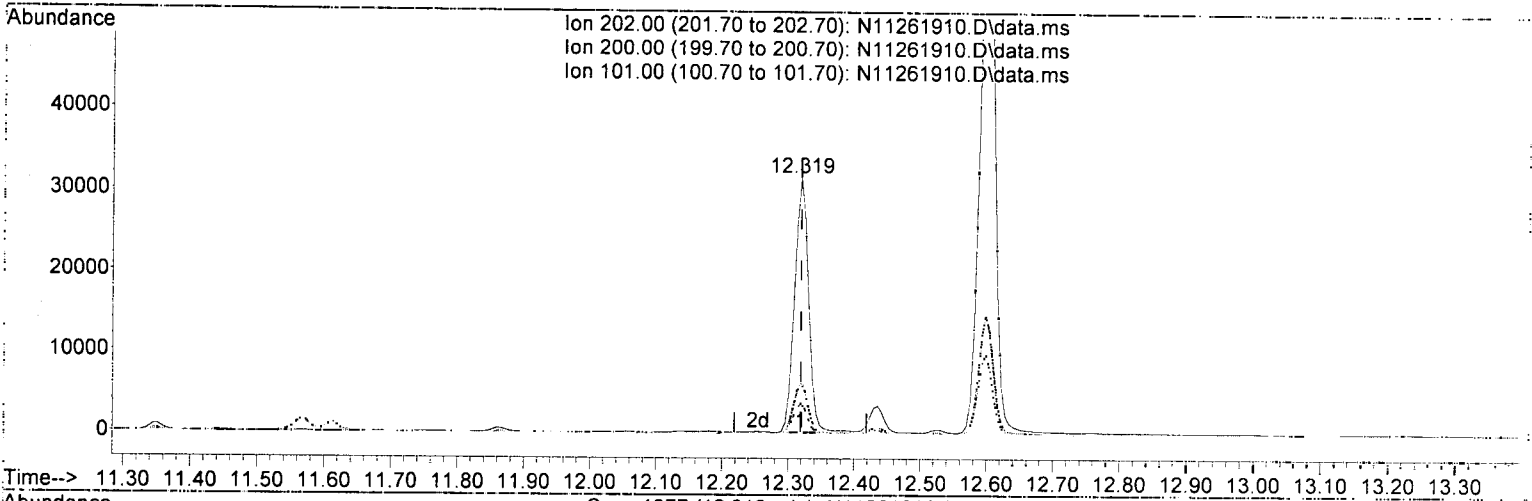
response 7037

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	17.78
179.00	15.10	15.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(23) Fluoranthene (T)

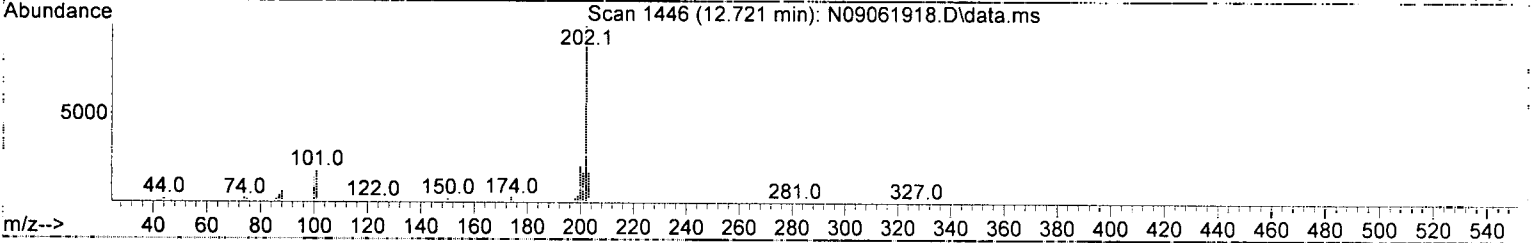
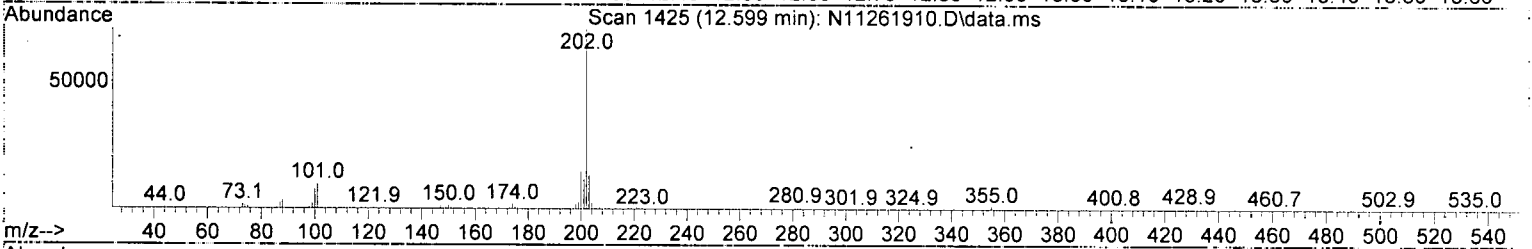
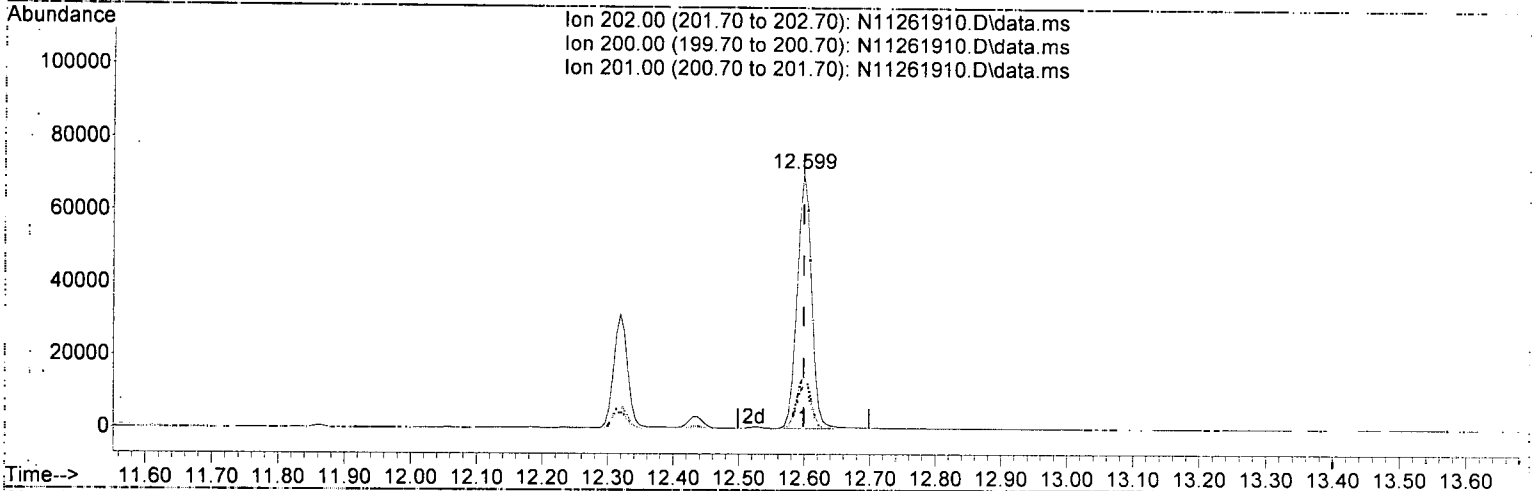
12.319min (-0.000) 27.48 ng/ml

response	46453
Ion	Exp% Act%
202.00	100.00 100.00
200.00	19.70 19.77
101.00	15.30 11.68
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(25) Pyrene (T)

12.599min (-0.000) 59.41 ng/ml

response 107461

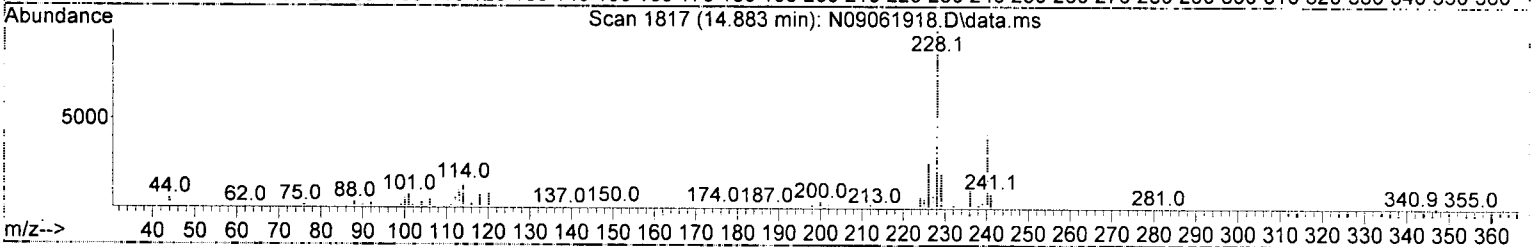
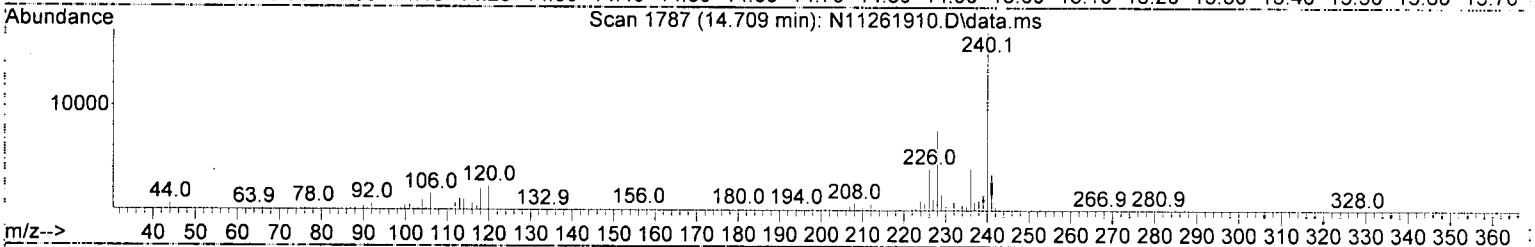
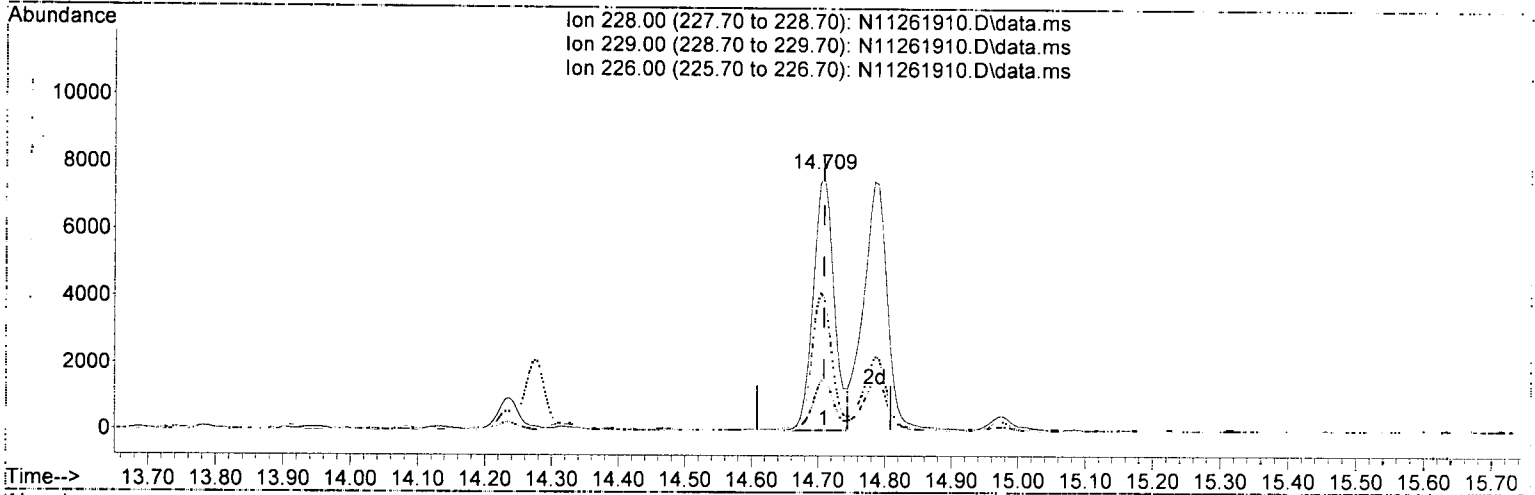
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.68
201.00	16.80	17.09
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



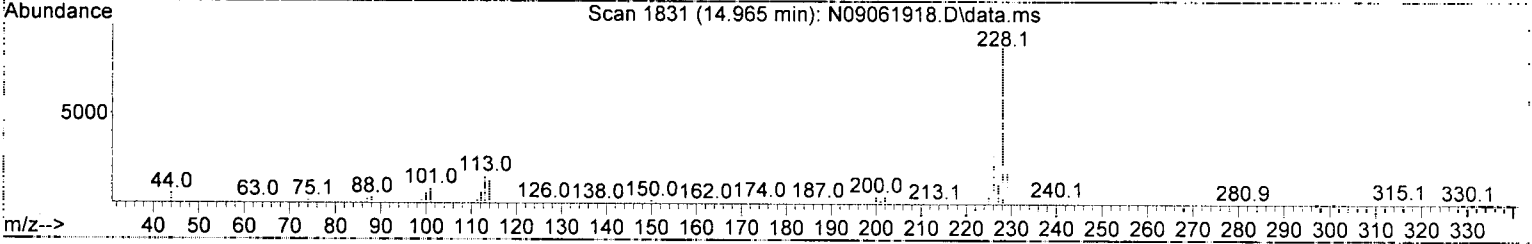
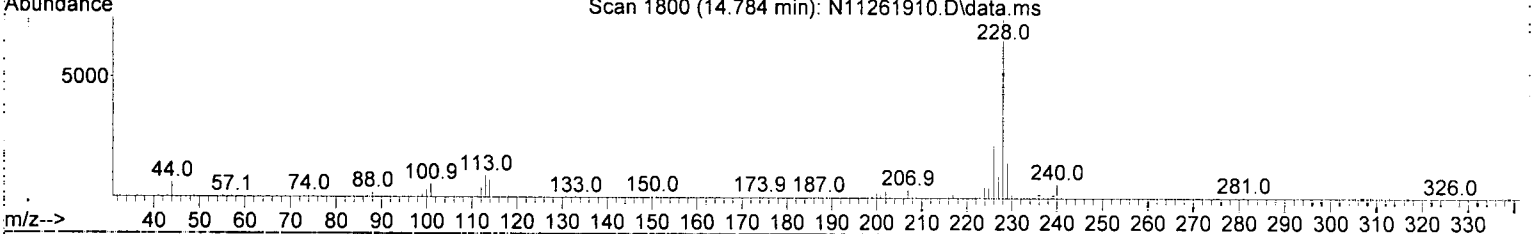
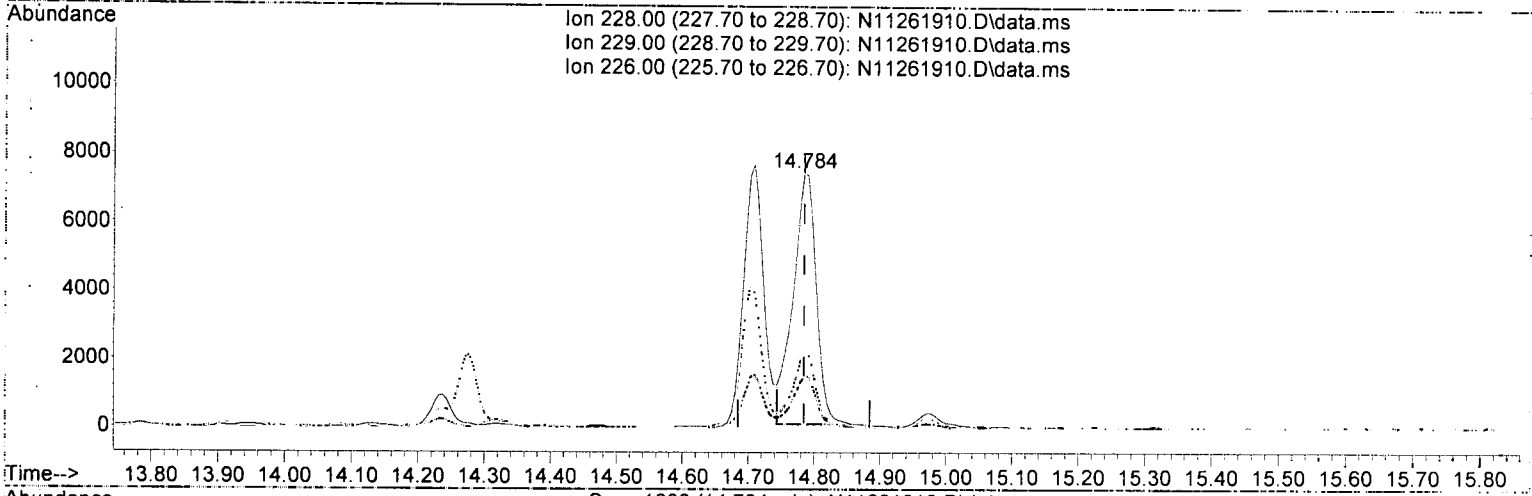
TIC: N11261910.D\data.ms

(27) Benz(a)anthracene (T)		
14.709min (-0.000)	12.41 ng/ml	
response	16688	
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.36
226.00	26.20	51.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(28) Chrysene (T)

14.784min (-0.000) 14.13 ng/ml

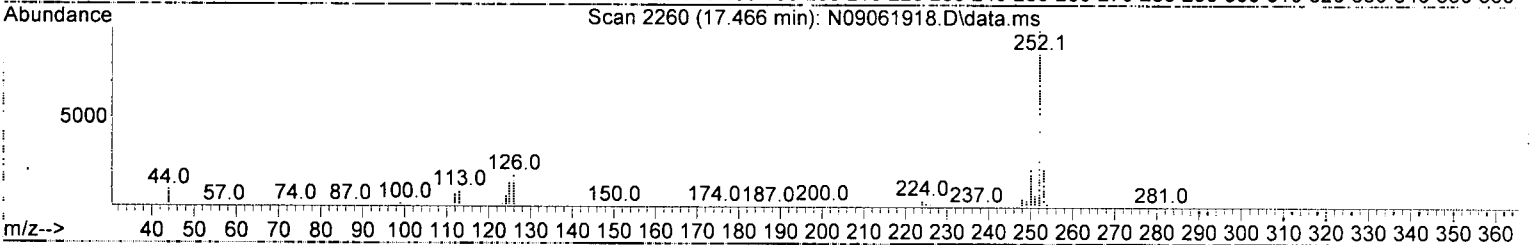
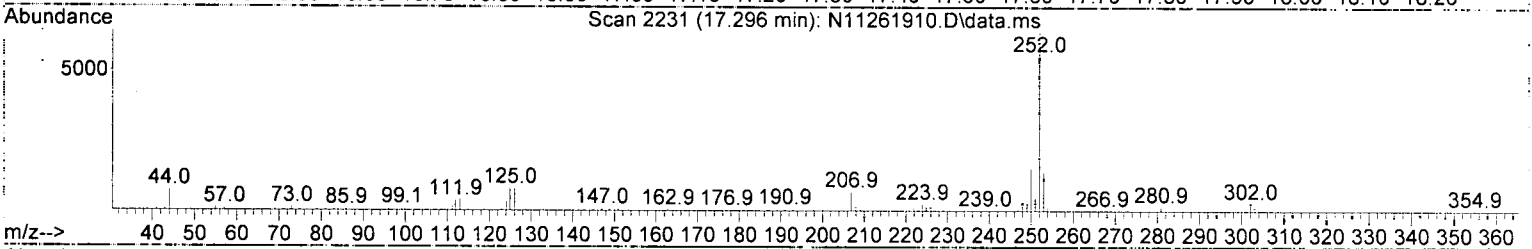
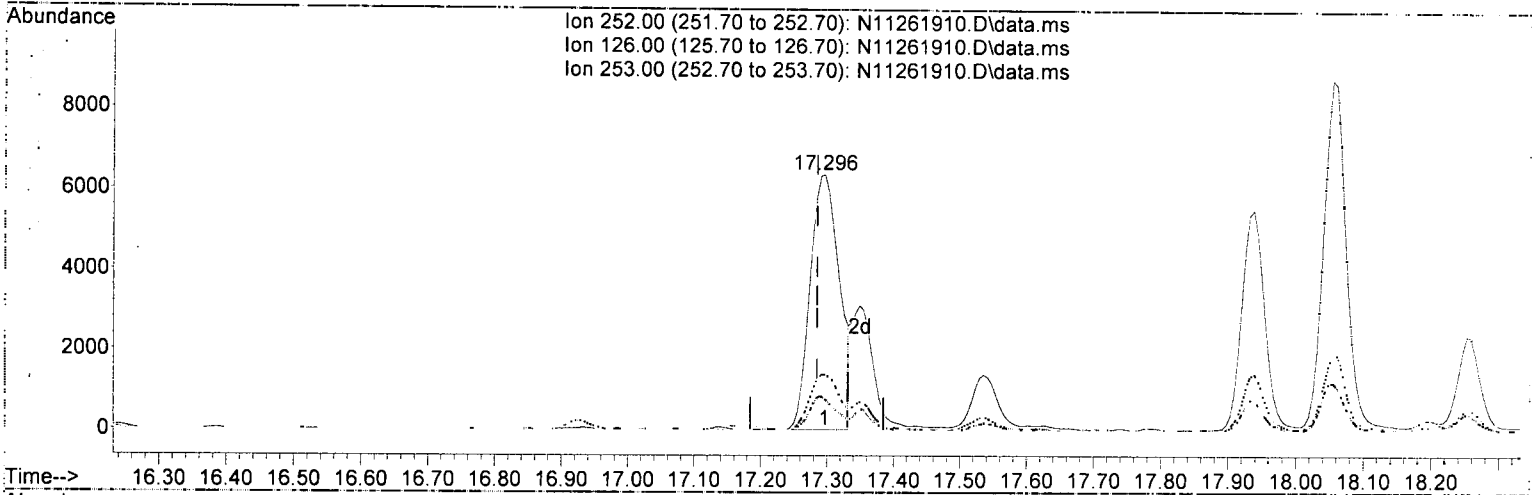
response 17969

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.02
226.00	28.60	29.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(30) Benzo(b)fluoranthene (T)

17.296min (+ 0.012) 15.18 ng/ml

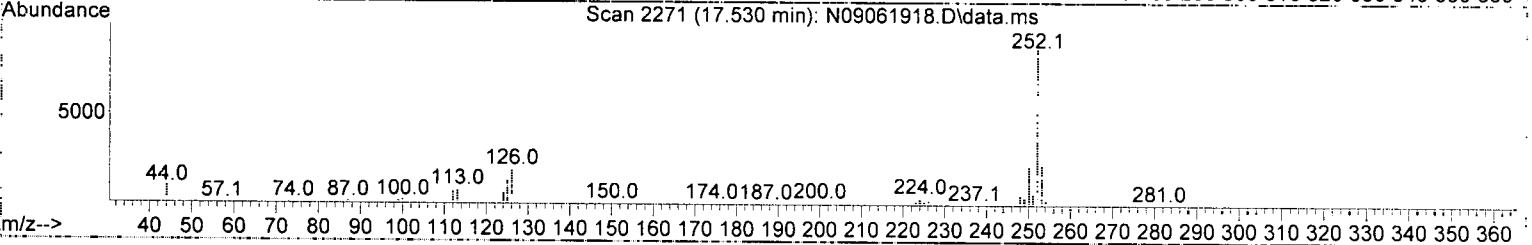
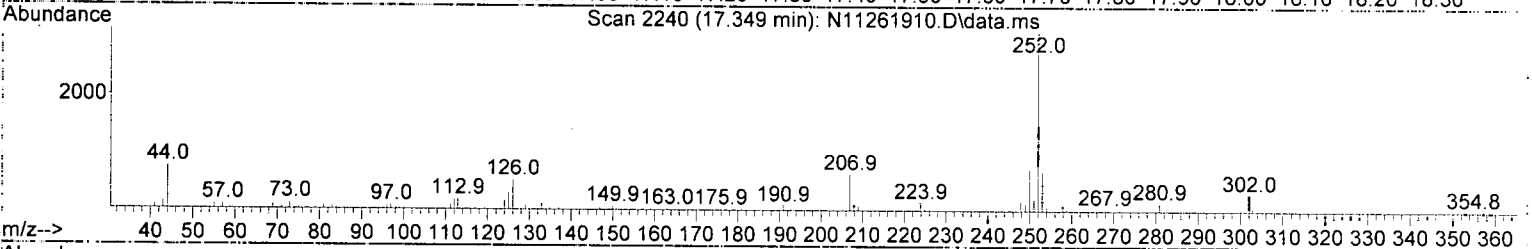
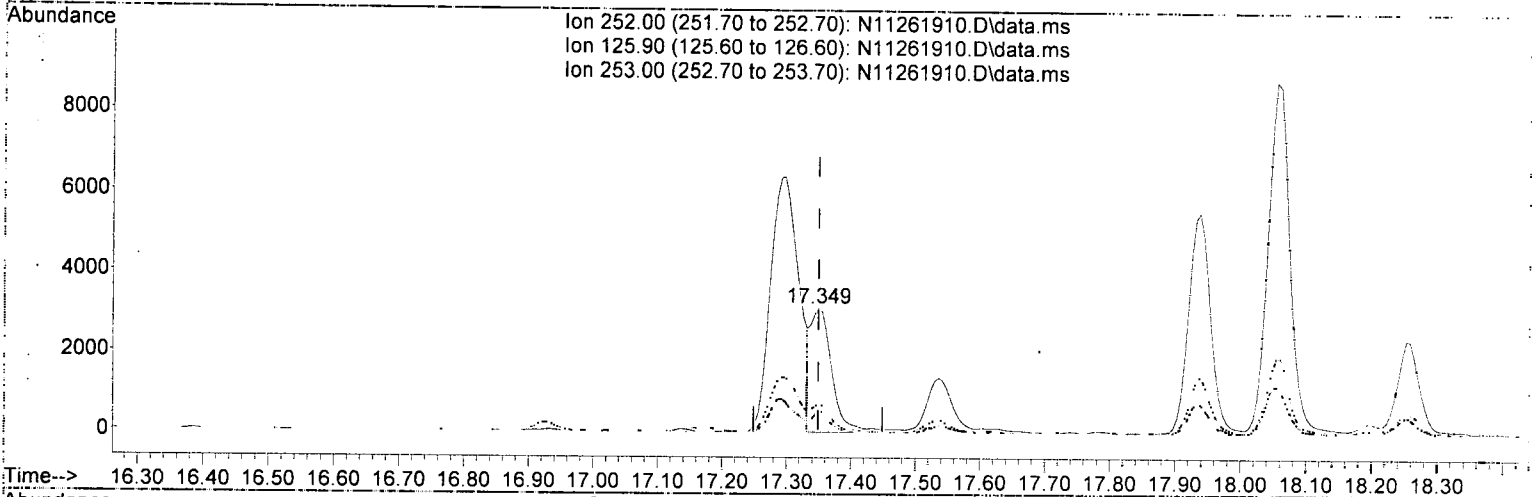
response 19497

Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	12.16
253.00	21.10	21.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.349min (-0.000) 5.51 ng/ml  
 response 6972

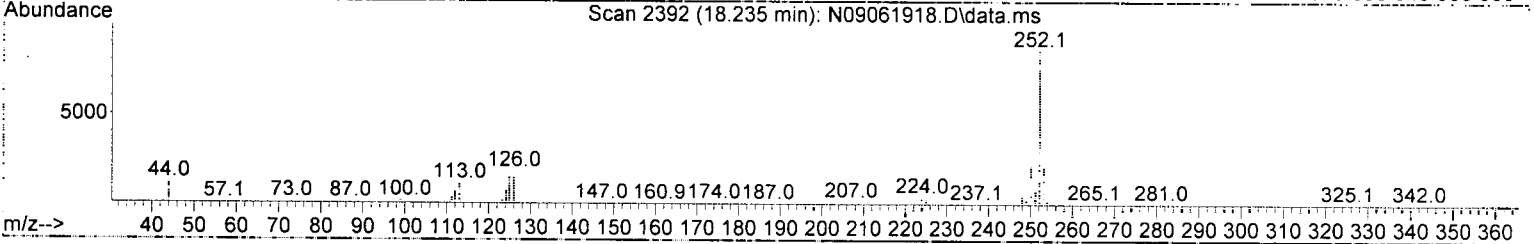
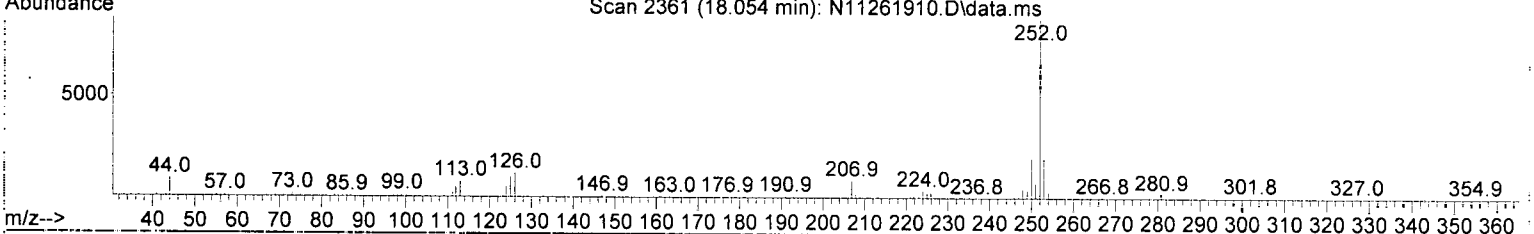
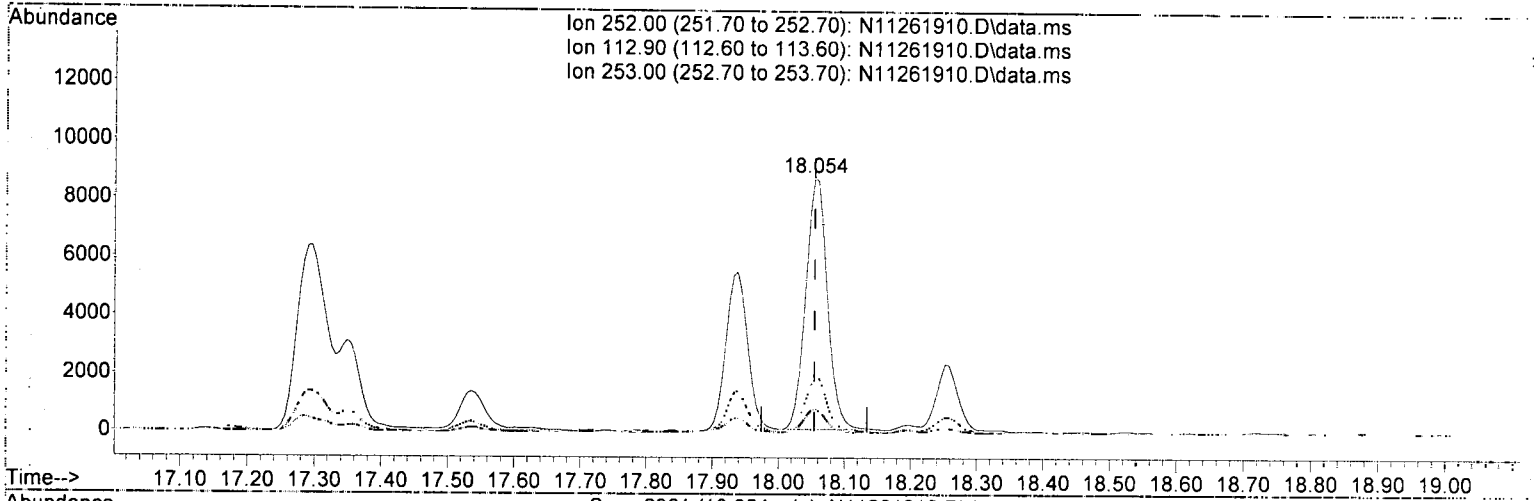
*AMS*  
*12/2/19*  
*MOS*

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	16.97
253.00	21.50	22.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

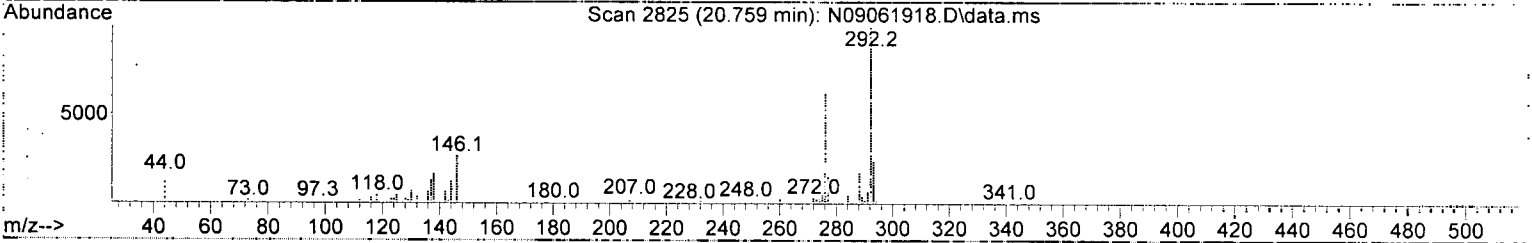
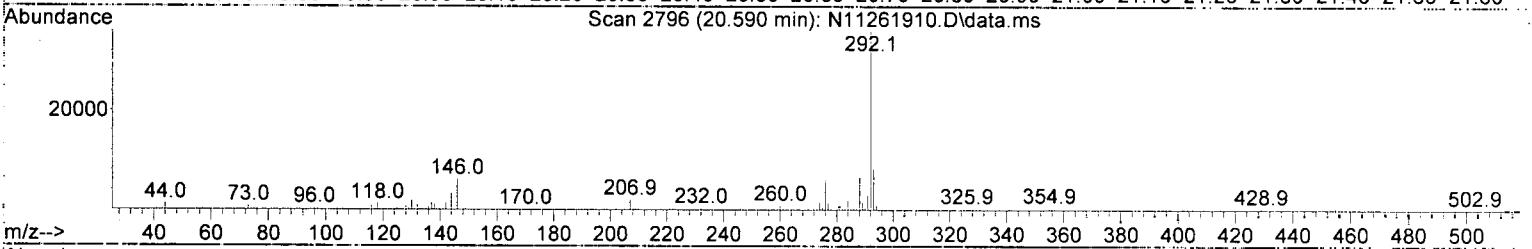
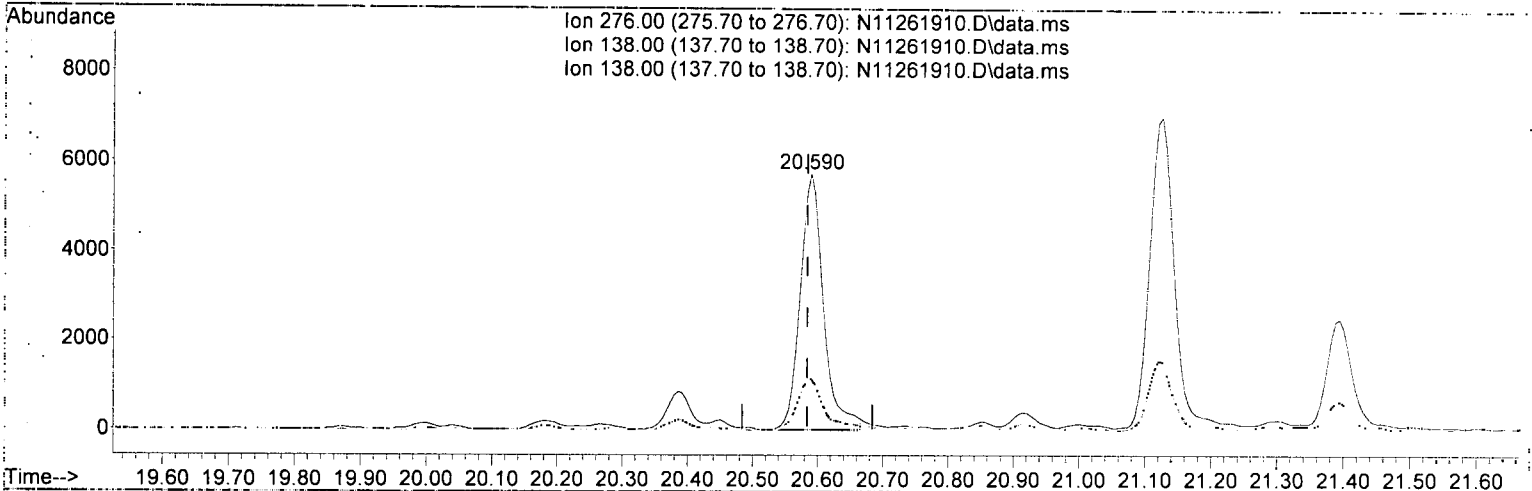
(35) Benzo(a)pyrene (T)

18.054min (-0.000)	18.02 ng/ml
response	19814
Ion	Exp% Act%
252.00	100.00 100.00
112.90	12.70 9.18
253.00	21.90 21.58
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.590min (+ 0.006) 12.20 ng/ml

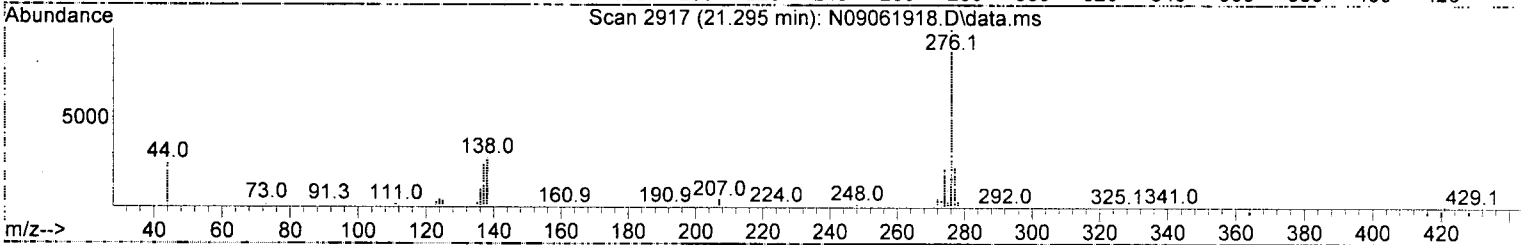
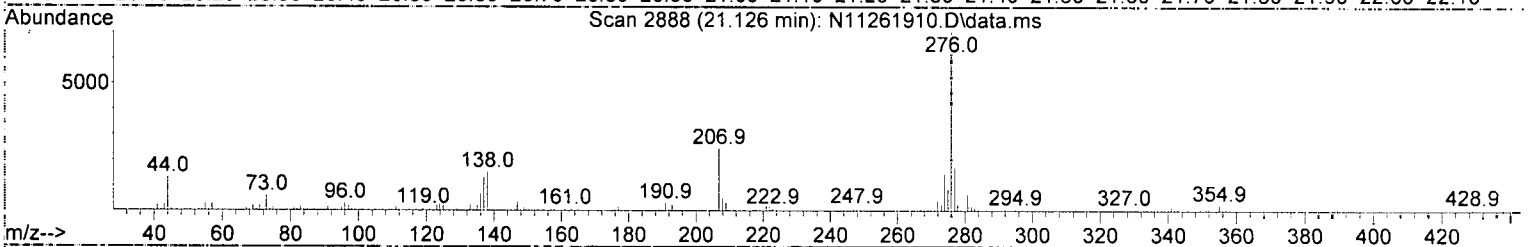
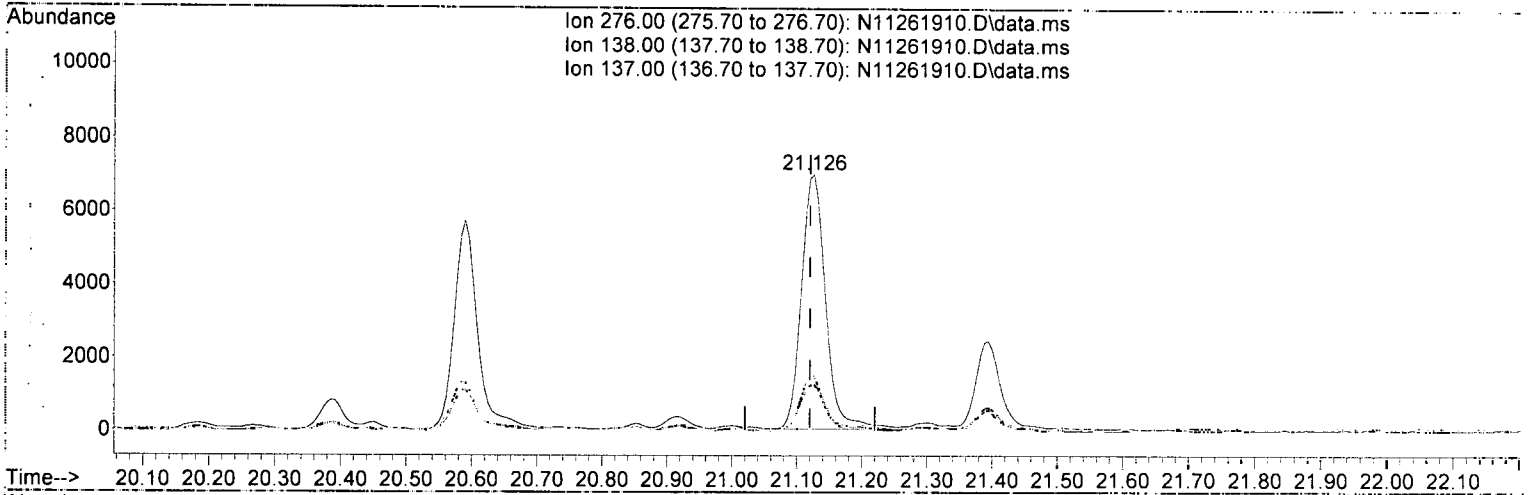
response 14165

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	19.70
138.00	31.60	19.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2019-11\9K26030\  
 Data File : N11261910.D  
 Acq On. : 26 Nov 2019 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-04@1000  
 Misc : 1000x, 8270D PAH ONLY (SCAN)  
 ALS Vial : 10 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N11261910.D\data.ms

(40) Benzo(g,h,i)perylene (T)

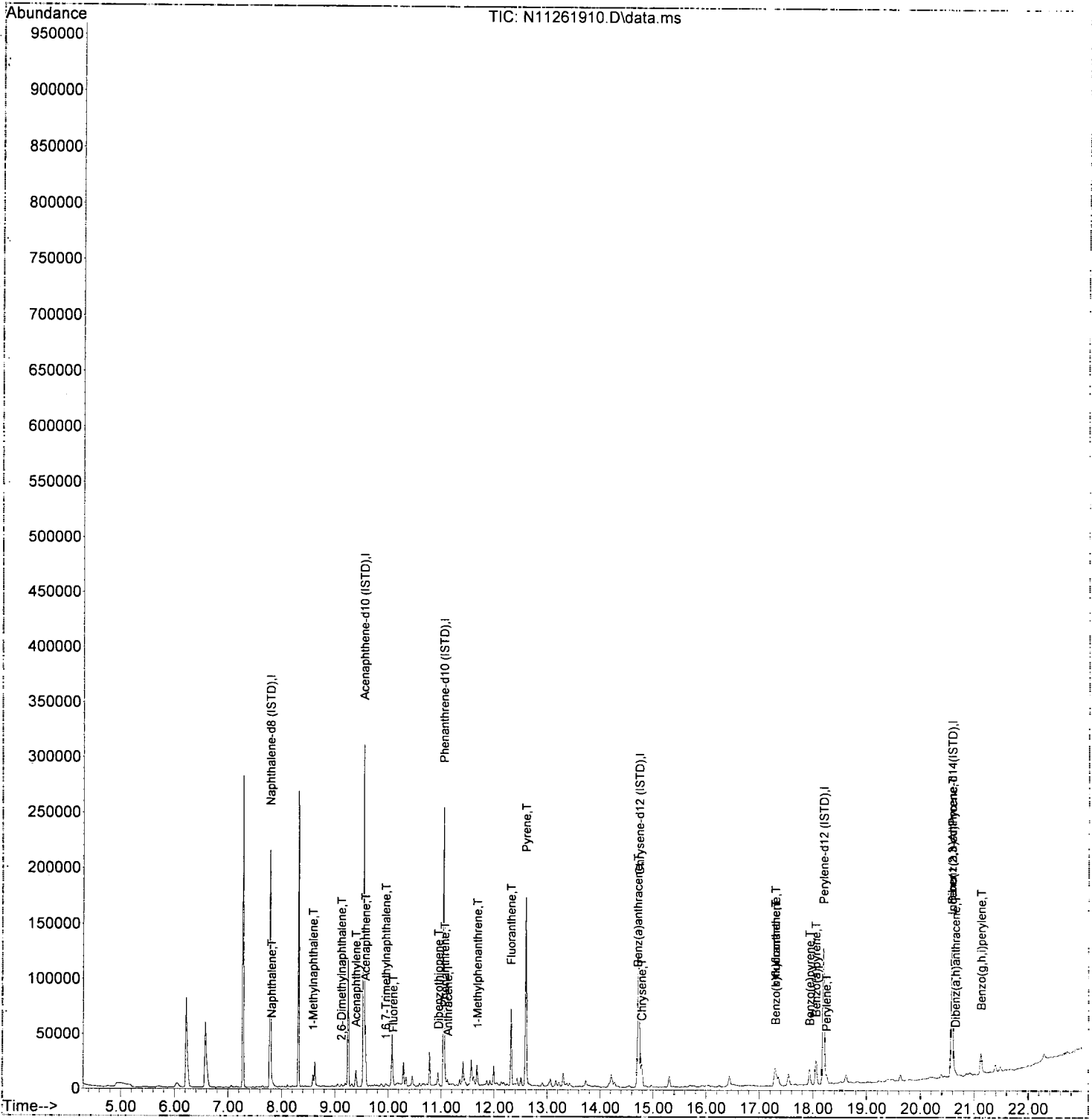
21.126min (+ 0.006) 14.47 ng/ml

response 17820

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	21.75
137.00	18.60	18.39
0.00	0.00	0.00

Data Path : U:\data\2019-11\9K26030\  
Data File : N11261910.D  
Acq On : 26 Nov 2019 05:56 pm  
Operator : JK/ AMS/ DTH  
Sample : A9I0890-04@1000  
Misc : 1000x, 8270D PAH ONLY (SCAN)  
ALS Vial : 10 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 02 14:56:15 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14





**Semivolatile Organic Compounds (PAHs) by EPA 8270D  
Benchsheet & Analysis Sequence Data**

Batch 9120480  
Sequence 9L04042 (A9I0890-17,18)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9120480 (Sediment) DEC 09 2019

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	>11
	9120480-BLK1	QC	12/04/19 10:11	11	5				100				
	9120480-BS1	QC	12/04/19 10:11	10	5	A19H078		100	100				
	A9I0890-17	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.38	5				100	PDI-018SC-A-06-07-190926	MS/MSD		
	9120480-MS1	QC	12/04/19 10:11	10.45	5	A19H078	A9I0890-17	100	100				
	9120480-MSD1	QC	12/04/19 10:11	10.49	5	A19H078	A9I0890-17	100	100				
	A9I0890-18	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.17	5				100	PDI-018SC-A-07-08-190926			
	A9J0033-50	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.43	5				100	PDI-064SC-A-00-01-190929			
	A9J0033-51	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.69	5				100	PDI-064SC-A-01-02-190929			
	A9J0095-02	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.61	5				100	PDI-046SC-A-01-02-191001			
	A9J0095-03	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.79	5				100	PDI-046SC-A-02-03-191001			
	A9J0095-14	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.41	5				100	PDI-047SC-A-01-02-191001			
	A9J0095-15	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.95	5				100	PDI-047SC-A-02-03-191001			
	A9J0095-32	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.53	5				100	PDI-071SC-A-08-09-191001			
	A9J0095-33	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.28	5				100	PDI-071SC-A-09-10-191001			
	A9J0095-33RE1	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.28	5				100	PDI-071SC-A-09-10-191001	Added 12/5/2019 By DTH		
	A9J0096-23	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.24	5				100	PDI-042SC-A-01-02-190930			
	A9J0096-24	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.32	5				100	PDI-042SC-A-02-03-190930			
	A9J0096-34	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.57	5				100	PDI-044SC-A-00-01-190930			
	A9J0096-34RE1	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.57	5				100	PDI-044SC-A-00-01-190930	Added 12/5/2019 By DTH		
	A9J0096-35	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.88	5				100	PDI-044SC-A-01-02-190930			

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_


  
 Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

**Apex Laboratories**  
**PREPARATION BENCH SHEET**  
**BATCH #: 9120480 (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	Obv	>11
	A9J0353-41	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.14	5				100	PDI-043SC-A-02-03-191008				
	A9J0353-42	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.37	5				100	PDI-043SC-A-03-04-191008				
	A9J0463-39	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.21	5				100	PDI-045SC-A-02-03-191010				
	A9J0463-40	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.65	5				100	PDI-045SC-A-03-04-191010				
	A9J0463-57	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.62	5				100	PDI-067SC-A-04-05-191010				
	A9J0463-58	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.95	5				100	PDI-067SC-A-05-06-191010				

**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	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19J413	04/14/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A19K010	10/29/25	Sodium Sulfate Lot # 188777						

Method 3546 digestion time and temperature achieved.

Initial: \_\_\_\_\_  
 Witness: \_\_\_\_\_

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

BATCH #: 9120480 (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	
1	9120480-BLK1	QC	12/04/19 10:11	10.11	5				100						
2	9120480-BS1	QC	12/04/19 10:11	10	5	A19H078		100	100						
3	A910890-17	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.38	5				100	PDI-018SC-A-06-07-190926	MS/MSD dirt color				
4	9120480-MS1	QC	12/04/19 10:11	10.45	5	A19H078	A910890-17	100	100						
5	9120480-MSD1	QC	12/04/19 10:11	10.49	5	A19H078	A910890-17	100	100						
6	A910890-18	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.17	5				100	PDI-018SC-A-07-08-190926	dirt Rock				
7	A910033-50	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.43	5				100	PDI-064SC-A-00-01-190929	Mud organics				
8	A910033-51	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.69	5				100	PDI-064SC-A-01-02-190929	Mud				
9	A910095-02	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.61	5				100	PDI-046SC-A-01-02-191001	dirt				
10	A910095-03	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.74	5				100	PDI-046SC-A-02-03-191001	dirt				
11	A910095-14	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.41	5				100	PDI-047SC-A-01-02-191001	Mud				
12	A910095-15	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.95	5				100	PDI-047SC-A-02-03-191001	dirt				
13	A910095-32	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.53	5				100	PDI-071SC-A-08-09-191001	dirt				
14	A910095-33	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.28	5				100	PDI-071SC-A-09-10-191001	Mud				
15	A910096-23	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.24	5				100	PDI-042SC-A-01-02-190930	dirt				
16	A910096-24	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.32	5				100	PDI-042SC-A-02-03-190930	dirt				
17	A910096-34	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.57	5				100	PDI-044SC-A-00-01-190930	Mud organics				
18	A910096-35	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.88	5				100	PDI-044SC-A-01-02-190930	dirt				
19	A910353-41	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.14	5				100	PDI-043SC-A-02-03-191008	dirt				
20	A910353-42	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.37	5				100	PDI-043SC-A-03-04-191008	dirt				

Prepared By: CAH Date: 12/4/19

Reviewed By: CAS Date: 12/04/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**  
**BATCH #: 9120480 (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	$\frac{8}{8}$	>11
21	A9J0463-39	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.21	5	/			100	PDI-045SC-A-02-03-191010	dirt Mud			
22	A9J0463-40	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.65	5	/			100	PDI-045SC-A-03-04-191010	Mud			
23	A9J0463-57	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.62	5	/			100	PDI-067SC-A-04-05-191010	Mud			
24	A9J0463-58	A 8270D LL PAH Only (Scan)	12/04/19 10:11	10.95	5	/			100	PDI-067SC-A-05-06-191010	Mud			

**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	A19H078	02/02/20	LVI PAH Spike @2000ng/ml	A19J413	04/14/20	8270D LL PAH Only Surr. (5ppm)
A18K311	12/31/20	Glass Wool						
A19I263	03/18/20	DCM CHEM PROD. 194934						
A19K010	10/29/25	Sodium Sulfate Lot # 188777						

Method 3546 digestion time and temperture achieved.

Initial: CEW

Witness: CEW 12-04-19

Prepared By: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L04042**

Instrument: **SV-GCMS14**

Date: **12/04/19 13:41**

Calibration: **A911001**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L04042-TUN1	Sediment	QC	QC			A19K048	A19K329
2	9L04042-CCV1	Sediment	QC	QC			A19K048	A19K012
3	9L04042-CCB1	Sediment	QC	QC			A19K048	
4	9120480-BLK1	Sediment	QC	QC		9120480	A19K048	
5	9120480-BS1	Sediment	QC	QC		9120480	A19K048	
6	A9I0890-17	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
7	9120480-MS1	Sediment	QC	QC		9120480	A19K048	
8	9120480-MSD1	Sediment	QC	QC		9120480	A19K048	
9	A9I0890-18	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
10	A9J0033-50	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
11	A9J0033-51	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
12	A9J0095-02	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
13	A9J0095-03	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
14	A9J0095-14	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
15	A9J0095-15	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
16	A9J0095-32	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
17	A9J0095-33	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
18	A9J0096-23	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
19	A9J0096-24	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
20	A9J0096-34	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
21	A9J0096-35	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
22	A9J0353-41	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
23	A9J0353-42	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
24	A9J0463-39	Sediment	8270D LL PAH Only (Scan)	Anchor QEA, LLC	12/16/19	9120480	A19K048	
25	9L04042-IBL1	Sediment	QC	QC			A19K048	

Data Entered By: DOT 12/5/19

Comments:

Data Reviewed By: DOT 12/5/19

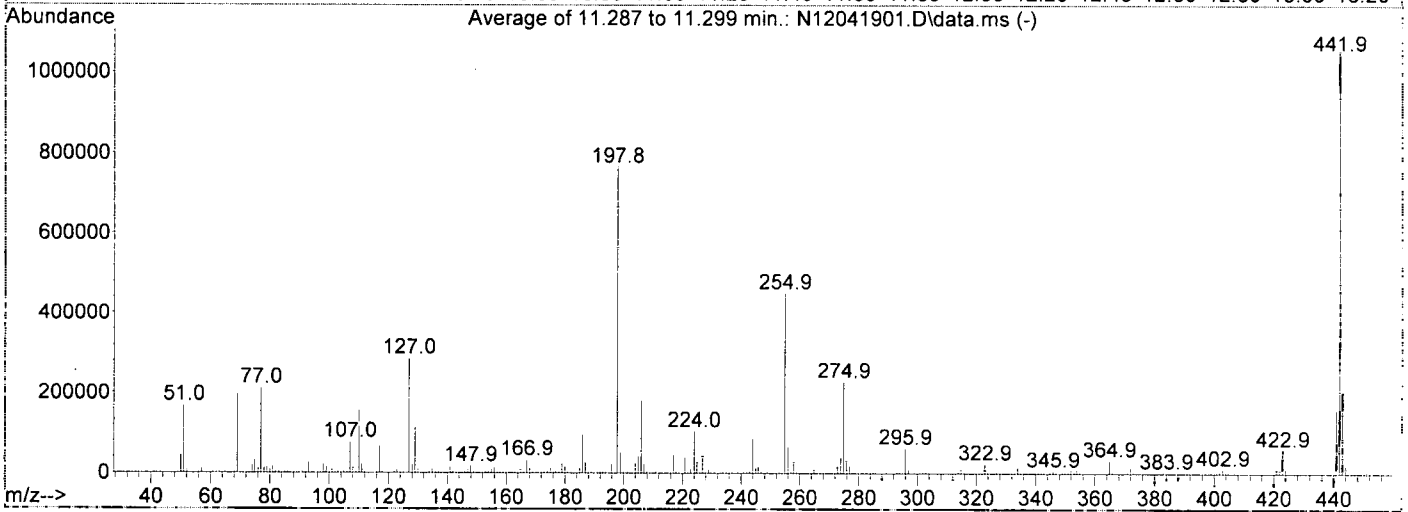
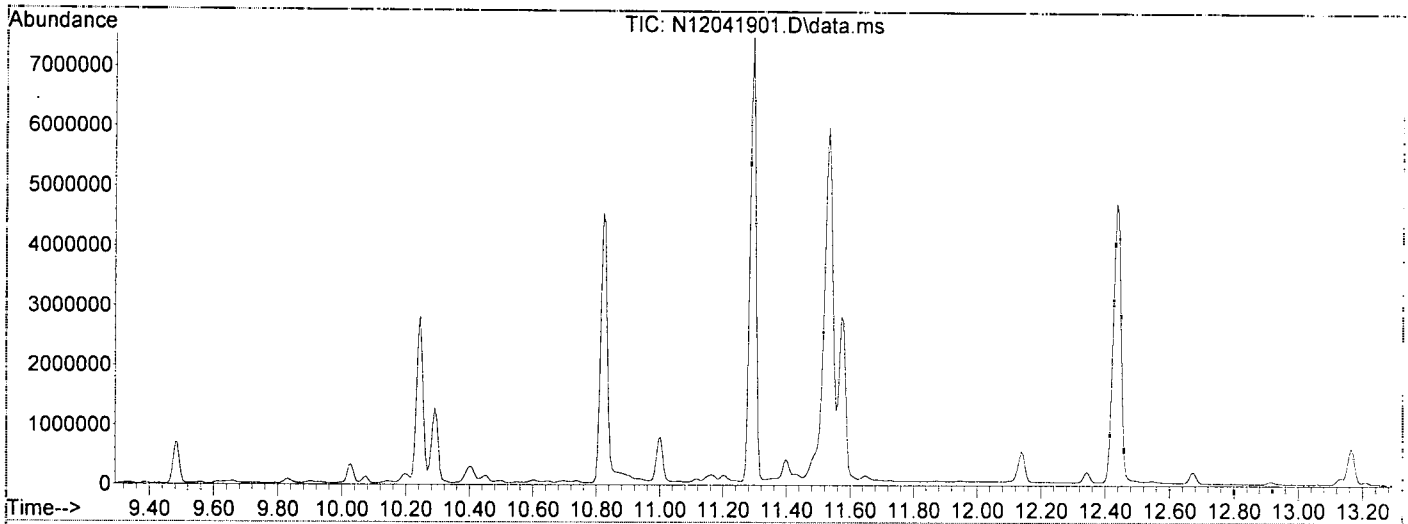
01/30/20 Anchor QEA, LLC - Gasco PreRD\_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 920 of 1075

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041901.D  
 Acq On : 04 Dec 2019 01:48 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1

*AMS*  
*12/4/19*

Integration File: rteint.p

Method : U:\methods\DFTPP.M  
 Title : 8270 DFTPP Tune Method  
 Last Update : Wed Nov 06 13:10:03 2019



AutoFind: Scans 1200, 1201, 1202; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3572	PASS
69	69	100	100	100.0	195585	PASS
70	69	0.00	2	0.5	1028	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	763210	PASS
199	198	5	9	6.8	51639	PASS
365	198	1	100	4.1	31251	PASS
441	443	0.01	150	77.7	158283	PASS
442	198	0.10	200	137.9	1052139	PASS
443	442	15	24	19.4	203691	PASS

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041901.D  
 Acq On : 04 Dec 2019 01:48 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Dec 04 14:46:25 2019  
 Quant Method : U:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Wed Nov 06 13:10:03 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.513	150	134860	2.00	ug/mL	-0.01
2) Naphthalene-d8	7.720	136	382904	2.00	ug/mL	-0.01
3) Acenaphthene-d10	9.480	162	218572	2.00	ug/mL	-0.01
5) Phenanthrene-d10	11.001	188	414080	2.00	ug/mL	0.00
11) Chrysene-d12	14.627	240	359113	2.00	ug/mL	-0.01
12) Perylene-d12	16.713	264	346508	2.00	ug/mL	-0.01
13) Dibenz(a,h)anthracene-...	17.908	292	302047	2.00	ug/mL	#-0.01
Target Compounds						
4) Pentachlorophenol	10.826	266	984774	47.71	ug/mL	79
6) DFTPP	11.293	442	1580710	47.29	ug/mL	75
7) Benzidine	12.435	184	3550049	24.10	ug/mL	97
8) 4,4-DDE	12.674	TIC	293053	No Calib		
9) 4,4-DDD	13.164	TIC	925587	No Calib		
10) 4,4-DDT	13.694	TIC	12594558	29.66	ug/mL	94

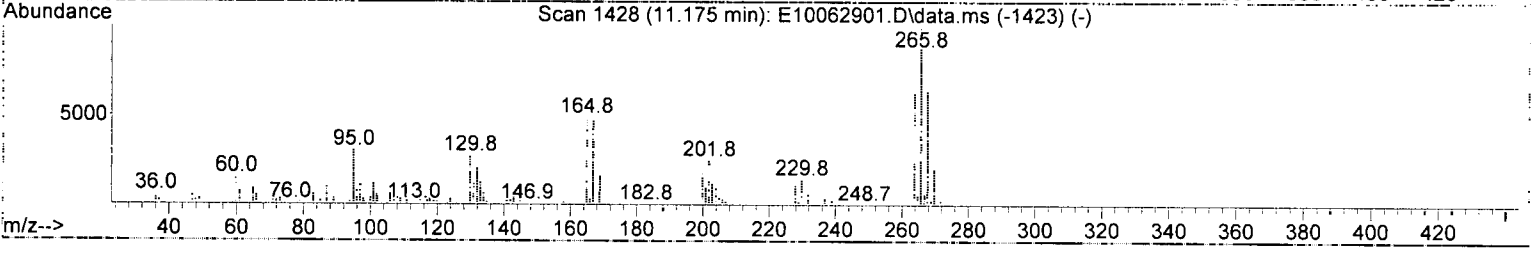
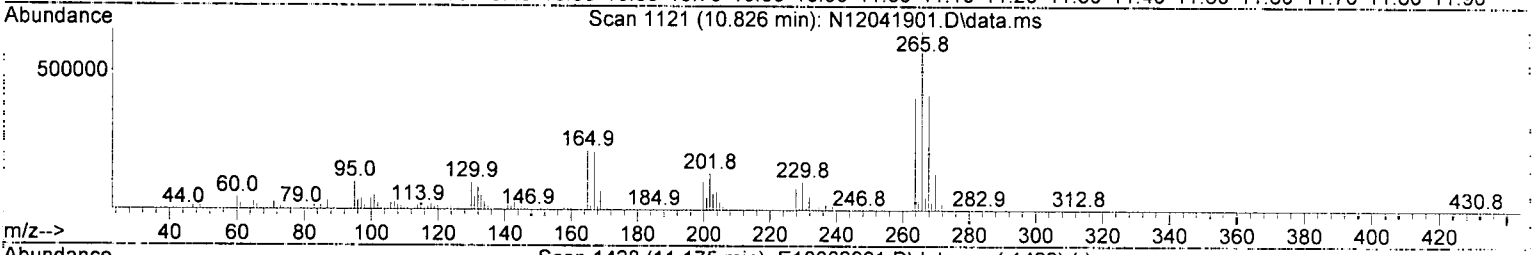
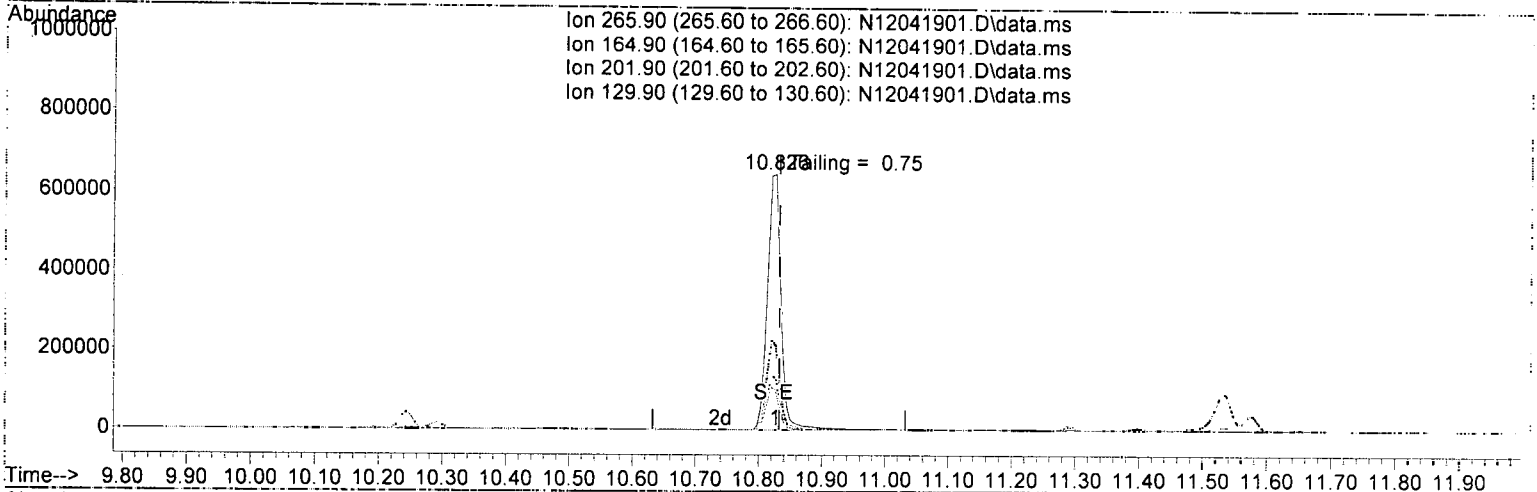
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041901.D  
 Acq On : 04 Dec 2019 01:48 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Dec 04 14:46:25 2019  
 Quant Method : U:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Wed Nov 06 13:10:03 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041901.D\data.ms

(4) Pentachlorophenol ✓

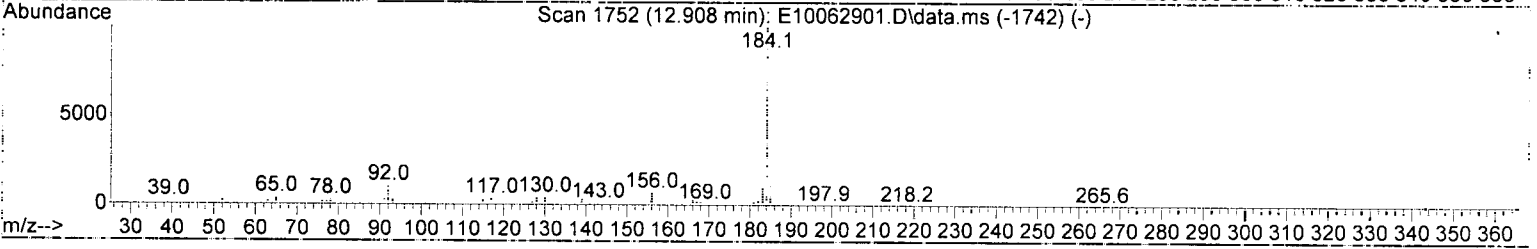
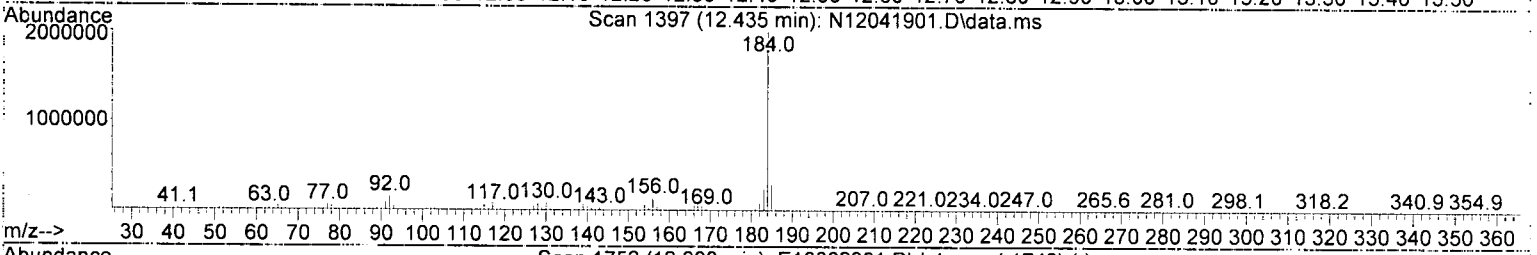
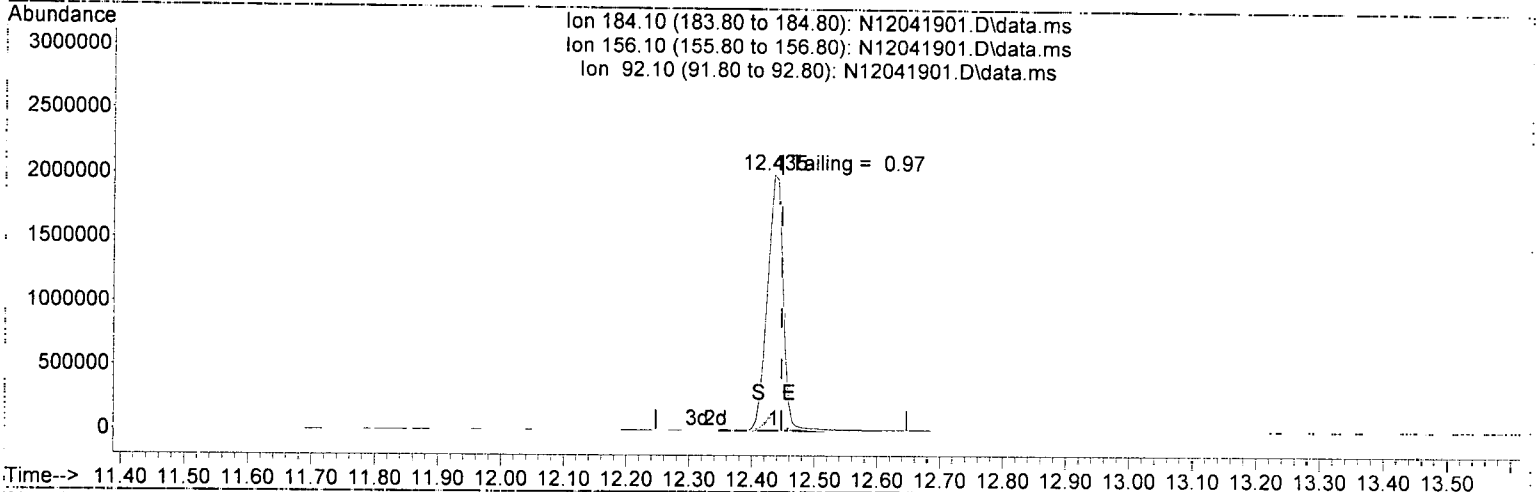
10.826min (-0.006) 47.71 ug/mL

response	984774
Ion	Exp% Act%
265.90	100.00 100.00
164.90	50.60 33.02
201.90	25.80 20.30
129.90	27.30 15.27

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041901.D  
 Acq On : 04 Dec 2019 01:48 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-TUN1  
 Misc : 1x, A19K329 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Dec 04 14:46:25 2019  
 Quant Method : U:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Wed Nov 06 13:10:03 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041901.D\data.ms

(7) Benzidine

12.435min (-0.012) 24.10 ug/mL

response 3550049

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.98
92.10	8.20	7.65
0.00	0.00	0.00

## DDT Breakdown Check (Validated 5/1/2013)

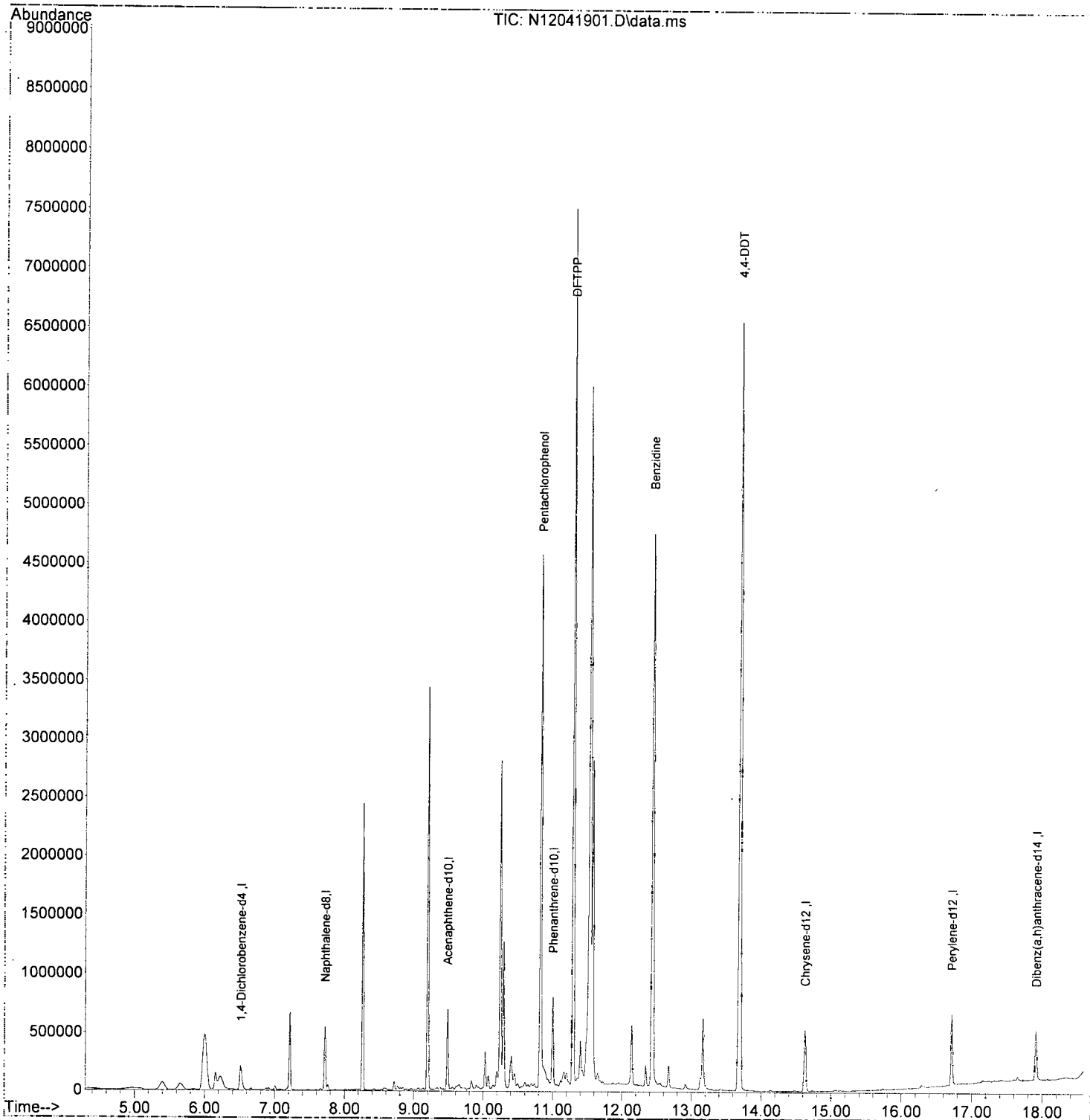
From:  
9L04042-TUN1  
SV-GCMS14

First Column Area Counts	Percent Breakdown	
DDE	293053	
DDD	925587	
<b>DDT</b>	<b>12594558</b>	<b>8.82 PASS</b>

Breakdown must be less than 20% to accept sample data.

Data Path : U:\data\2109-12\9L04042\  
Data File : N12041901.D  
Acq On : 04 Dec 2019 01:48 pm  
Operator : JK/ AMS/ DTH  
Sample : 9L04042-TUN1  
Misc : 1x, A19K329 DFTPP@45  
ALS Vial : 1 Sample Multiplier: 1  
DataAcq Meth:DFTPP.M

Quant Time: Dec 04 14:46:25 2019  
Quant Method : U:\methods\DFTPP.M  
Quant Title : 8270 DFTPP Tune Method  
QLast Update : Wed Nov 06 13:10:03 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Evaluate Continuing Calibration Report

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041902.D  
 Acq On : 04 Dec 2019 02:16 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-CCV1  
 Misc : 1x, A19K012@50  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

AMS  
 12/4/19

Quant Time: Dec 04 14:47:53 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

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	121	0.00
2 S Nitrobenzene-d5 (Surr)	50.000	44.814	10.4	111	0.00
3 T Decalin	50.000	40.995	18.0	98	0.00
4 T Naphthalene	50.000	48.612	2.8	119	0.00
5 T 2-Methylnaphthalene	50.000	42.941	14.1	103	0.00
6 T 1-Methylnaphthalene	50.000	40.918	18.2	96	0.00
7 T 1,1'-Biphenyl	50.000	39.968	20.1#	96	0.00
8 T 2,6-Dimethylnaphthalene	50.000	40.229	19.5	95	0.00
9 I Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	95	0.00
10 S 2-Fluorobiphenyl (Surr)	50.000	51.796	-3.6	99	0.00
11 S Acenaphthylene d-8 (Surr)	50.000	-1.000	102.0#	2	0.00
12 T Acenaphthylene	50.000	46.691	6.6	89	0.00
13 T Acenaphthene	50.000	47.870	4.3	93	0.00
14 T Dibenzofuran	50.000	49.149	1.7	94	0.00
15 T 1,6,7-Trimethylnaphthalene	50.000	48.253	3.5	94	0.00
16 T Fluorene	50.000	48.618	2.8	93	0.00
17 I Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	92	0.00
18 T Dibenzothiopene	50.000	48.700	2.6	91	0.00
19 T Phenanthrene	50.000	47.814	4.4	90	0.00
20 T Anthracene	50.000	47.682	4.6	89	0.00
21 T Carbazole	50.000	46.944	6.1	88	0.00
22 T 1-Methylphenanthrene	50.000	49.634	0.7	93	0.00
23 T Fluoranthene	50.000	49.920	0.2	93	0.00
24 I Chrysene-d12 (ISTD)	100.000	100.000	0.0	106	0.00
25 T Pyrene	50.000	43.912	12.2	92	0.00
26 S Terphenyl-d14 (Surr)	50.000	46.829	6.3	100	0.00
27 T Benz(a)anthracene	50.000	46.056	7.9	103	0.00
28 T Chrysene	50.000	46.097	7.8	99	0.00
29 I Perylene-d12 (ISTD)	100.000	100.000	0.0	123	0.00
30 T Benzo(b)fluoranthene	50.000	48.942	2.1	120	0.00
31 T Benzo(k)fluoranthene	50.000	48.251	3.5	121	0.00
32 T Benzo(b+k)fluoranthene	100.000	96.299	3.7	119	0.07
33 S Benzo(a)pyrene d-12 (Surr)	50.000	0.000	100.0#	0	-18.02#
34 T Benzo(e)pyrene	50.000	46.508	7.0	116	0.00
35 T Benzo(a)pyrene	50.000	50.276	-0.6	122	0.00
36 T Perylene	50.000	47.657	4.7	117	0.00
37 I Dibenz(a,h)Anthracene-d14 (IS	100.000	100.000	0.0	164	0.01
38 T Indeno(1,2,3-cd)Pyrene	50.000	45.851	8.3	152	0.01
39 T Dibenz(a,h)anthracene	50.000	49.701	0.6	165	0.00
40 T Benzo(g,h,i)perylene	50.000	45.219	9.6	146	0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041902.D  
 Acq On : 04 Dec 2019 02:16 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-CCV1  
 Misc : 1x, A19K012@50  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

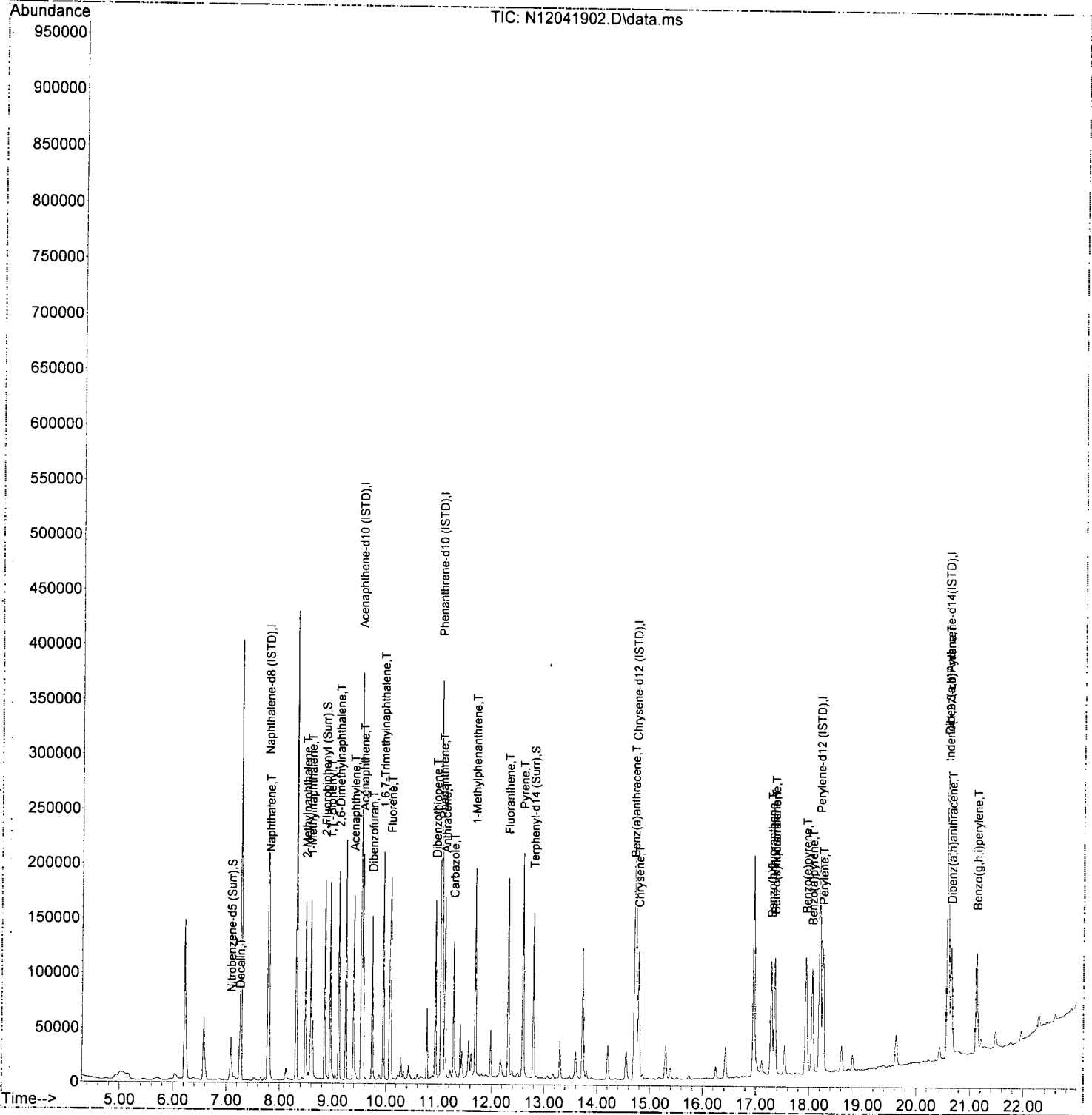
Quant Time: Dec 04 14:47:53 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	178988	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	112457	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.048	188	202757	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	179678	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.200	264	175627	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.590	292	152999	100.00	ng/ml	0.01
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.090	82	26654	44.81	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.851	172	86897	51.80	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	2484	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	88493	46.83	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
						Qvalue
3) Decalin	7.254	138	5463	41.00	ng/ml	82
4) Naphthalene	7.801	128	95966	48.61	ng/ml	99
5) 2-Methylnaphthalene	8.489	142	71834	42.94	ng/ml	97
6) 1-Methylnaphthalene	8.588	142	68438	40.92	ng/ml	97
7) 1,1'-Biphenyl	8.950	154	89925	39.97	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.113	156	66102	40.23	ng/ml	97
12) Acenaphthylene	9.393	152	113992	46.69	ng/ml	99
13) Acenaphthene	9.568	153	76549	47.87	ng/ml	98
14) Dibenzofuran	9.742	168	98442	49.15	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.952	170	64711	48.25	ng/ml	98
16) Fluorene	10.092	166	79556	48.62	ng/ml	98
18) Dibenzothiopene	10.943	184	103273	48.70	ng/ml	95
19) Phenanthrene	11.071	178	113443	47.81	ng/ml	100
20) Anthracene	11.124	178	105229	47.68	ng/ml	99
21) Carbazole	11.287	167	83831	46.94	ng/ml	98
22) 1-Methylphenanthrene	11.695	192	81805	49.63	ng/ml	98
23) Fluoranthene	12.319	202	119333	49.92	ng/ml	95
25) Pyrene	12.598	202	123268	43.91	ng/ml	99
27) Benz(a)anthracene	14.708	228	96077	46.06	ng/ml	99
28) Chrysene	14.790	228	91001	46.10	ng/ml	98
30) Benzo(b)fluoranthene	17.291	252	99183	48.94	ng/ml	91
31) Benzo(k)fluoranthene	17.355	252	96274	48.25	ng/ml	92
32) Benzo(b+k)fluoranthene	17.355	252	199614	96.30	ng/ml	92
34) Benzo(e)pyrene	17.943	252	95302	46.51	ng/ml	96
35) Benzo(a)pyrene	18.060	252	87207	50.28	ng/ml	96
36) Perylene	18.258	252	101814	47.66	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.595	276	86519	45.85	ng/ml	78
39) Dibenz(a,h)anthracene	20.654	278	88121	49.70	ng/ml	81
40) Benzo(g,h,i)perylene	21.132	276	90515	45.22	ng/ml	100

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

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041902.D  
 Acq On : 04 Dec 2019 02:16 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-CCV1  
 Misc : 1x, A19K012@50  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 14:47:53 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041903.D  
 Acq On : 04 Dec 2019 02:48 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9L04042-CCB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 3 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

AMS  
12/4/19

Quant Time: Dec 04 15:13:39 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

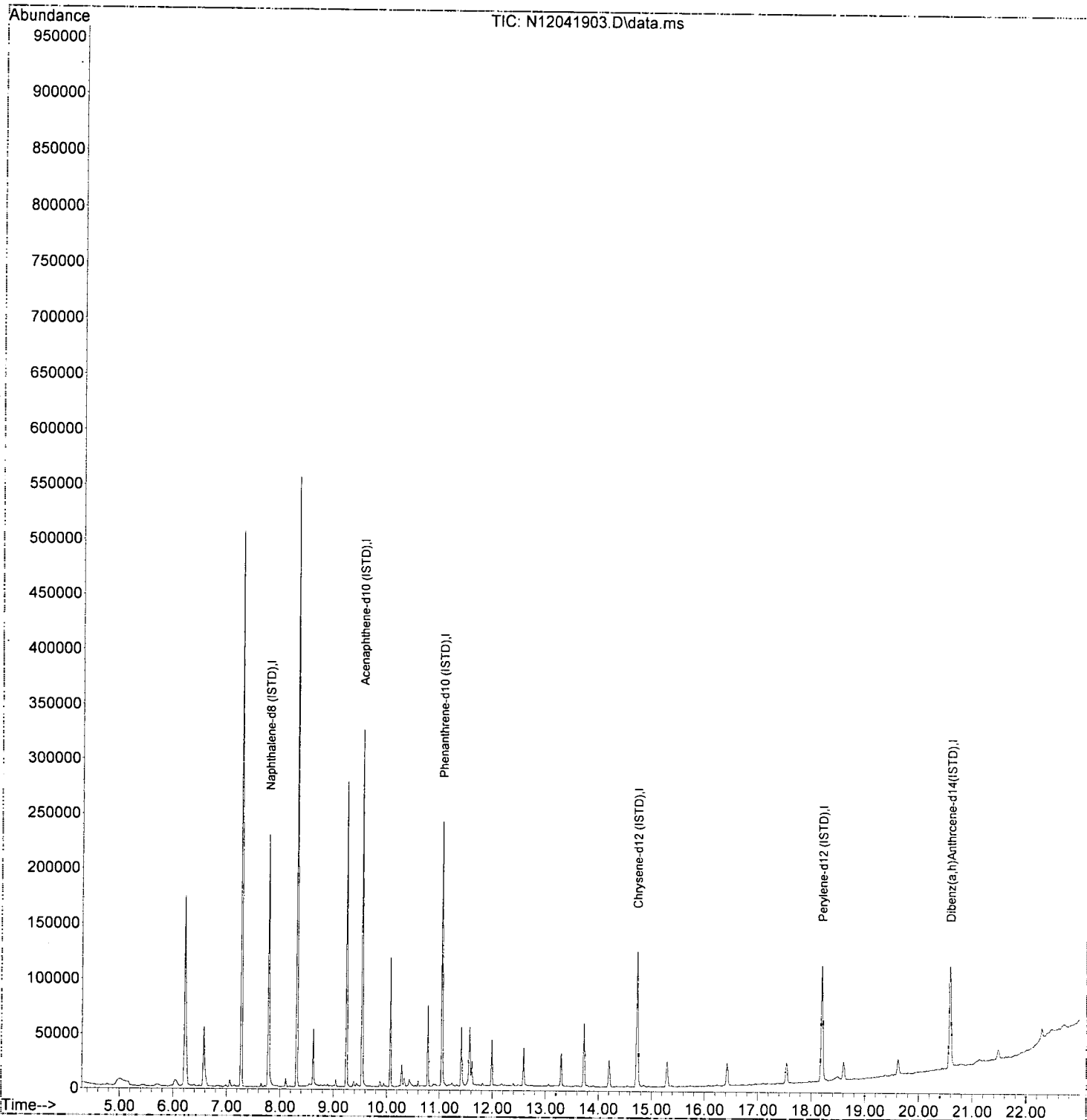
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.784	136	175268	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.539	162	100979	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	142533	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.726	240	98609	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	94371	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	81259	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.073	82	93	0.16	ng/ml	-0.02	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
11) Acenaphthylene d-8 (Surr)	9.381	160	3228	0.14	ng/ml	0.00	
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	7.813	128	426	N.D.			
5) 2-Methylnaphthalene	0.000		0	N.D.			
6) 1-Methylnaphthalene	8.588	142	70	N.D.			
7) 1,1'-Biphenyl	8.956	154	202	N.D.			
8) 2,6-Dimethylnaphthalene	0.000		0	N.D.			
12) Acenaphthylene	9.393	152	59	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	11.071	178	194	N.D.			
20) Anthracene	11.071	178	194	N.D.			
21) Carbazole	11.211	167	67	N.D.			
22) 1-Methylphenanthrene	11.701	192	95	N.D.			
23) Fluoranthene	12.325	202	75	N.D.			
25) Pyrene	12.599	202	73	N.D.			
27) Benz(a)anthracene	14.720	228	294	N.D.			
28) Chrysene	14.790	228	58	N.D.			
30) Benzo(b)fluoranthene	17.302	252	59	N.D.			
31) Benzo(k)fluoranthene	17.361	252	89	N.D.			
32) Benzo(b+k)fluoranthene	17.302	252	59	N.D.			
34) Benzo(e)pyrene	17.926	252	106	N.D.			
35) Benzo(a)pyrene	18.060	252	141	N.D.			
36) Perylene	18.247	252	243	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.590	276	177	N.D.			
39) Dibenz(a,h)anthracene	20.648	278	369	N.D.			
40) Benzo(g,h,i)perylene	21.137	276	144	N.D.			

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



Data Path : U:\data\2109-12\9L04042\  
Data File : N12041903.D  
Acq On : 04 Dec 2019 02:48 pm  
Operator : JK/ AMS/ DTH  
Sample : 9L04042-CCB1  
Misc : 1x, DCM + ISTD  
ALS Vial : 3 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 15:13:39 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041904.D  
 Acq On : 04 Dec 2019 03:21 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-BLK1  
 Misc : 1x, 8270D LL PAH ONLY  
 ALS Vial : 4 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

*AMS*  
*12/4/19*

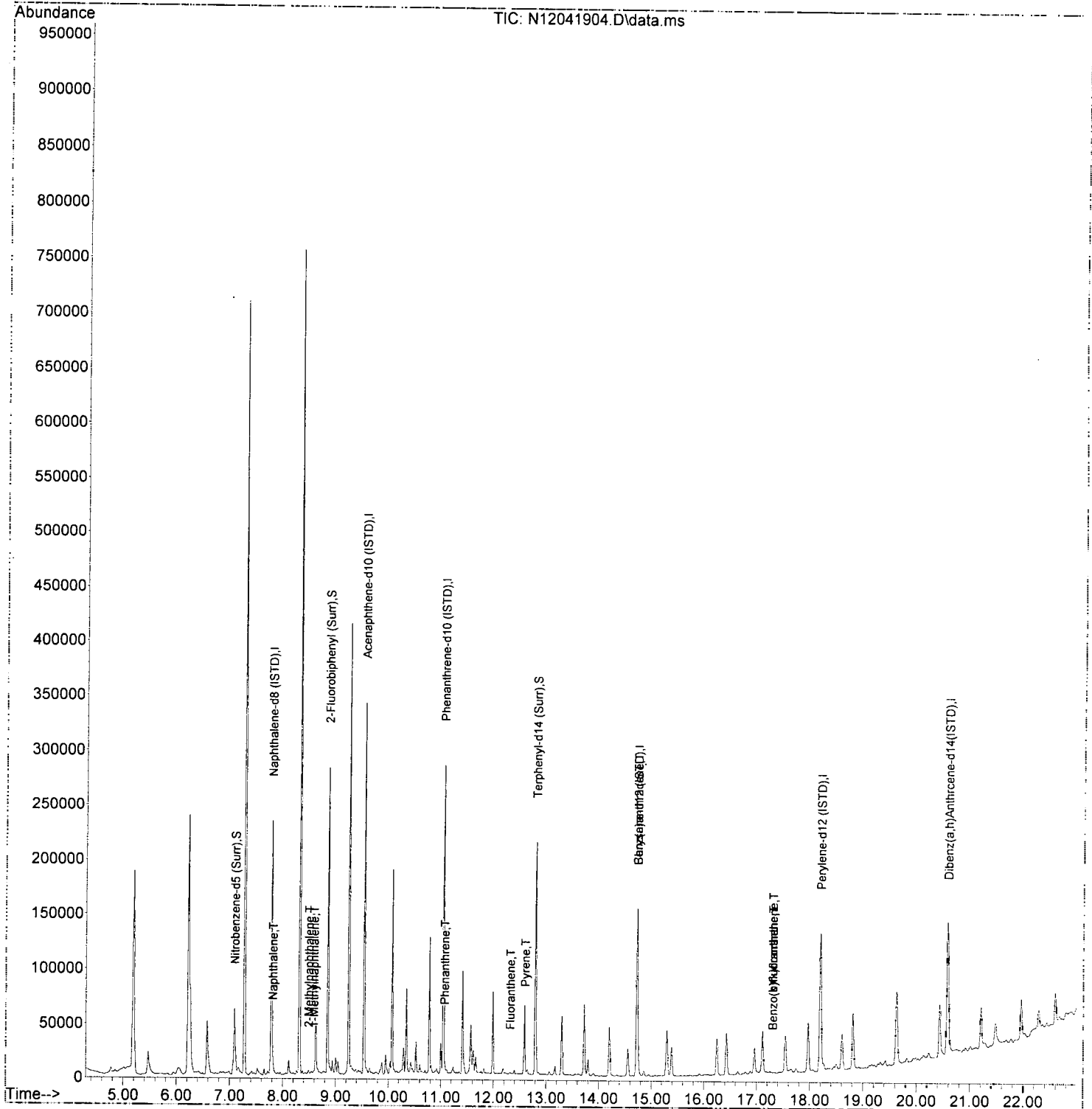
Quant Time: Dec 04 15:47:42 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.784	136	169208	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.538	162	103829	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	160887	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.726	240	124248	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	114157	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	100580	100.00	ng/ml	0.00	
<b>System Monitoring Compounds</b>							
2) Nitrobenzene-d5 (Surr)	7.090	82	39785	70.76	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.851	172	134700	86.96	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.381	160	2544	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.797	244	123852	94.78	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
<b>Target Compounds</b>							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.807	128	3690	1.98	ng/ml	99	
5) 2-Methylnaphthalene	8.489	142	1403	0.89	ng/ml	100	
6) 1-Methylnaphthalene	8.588	142	831	0.53	ng/ml	96	
7) 1,1'-Biphenyl	8.956	154	583	N.D.			
8) 2,6-Dimethylnaphthalene	9.119	156	281	N.D.			
12) Acenaphthylene	9.393	152	304	N.D.			
13) Acenaphthene	9.568	153	567	N.D.			
14) Dibenzofuran	9.748	168	187	N.D.			
15) 1,6,7-Trimethylnaphtha...	0.000		0	N.D.			
16) Fluorene	10.092	166	315	N.D.			
18) Dibenzothiopene	10.943	184	218	N.D.			
19) Phenanthrene	11.066	178	2020	1.07	ng/ml	95	
20) Anthracene	11.124	178	305	N.D.			
21) Carbazole	11.299	167	114	N.D.			
22) 1-Methylphenanthrene	11.695	192	234	N.D.			
23) Fluoranthene	12.319	202	1117	0.59	ng/ml	98	
25) Pyrene	12.599	202	1450	0.75	ng/ml	96	
27) Benz(a)anthracene	14.726	228	617	0.43	ng/ml	85	
28) Chrysene	14.790	228	413	N.D.			
30) Benzo(b)fluoranthene	17.296	252	531	0.40	ng/ml	69	
31) Benzo(k)fluoranthene	17.296	252	701	0.54	ng/ml	68	
32) Benzo(b+k)fluoranthene	17.296	252	701	0.52	ng/ml	68	
34) Benzo(e)pyrene	17.932	252	374	N.D.			
35) Benzo(a)pyrene	18.054	252	311	N.D.			
36) Perylene	18.258	252	96	N.D.			
38) Indeno(1,2,3-cd)Pyrene	20.590	276	278	N.D.			
39) Dibenz(a,h)anthracene	20.642	278	76	N.D.			
40) Benzo(g,h,i)perylene	21.132	276	337	N.D.			

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

Data Path : U:\data\2109-12\9L04042\  
Data File : N12041904.D  
Acq On : 04 Dec 2019 03:21 pm  
Operator : JK/ AMS/ DTH  
Sample : 9120480-BLK1  
Misc : 1x, 8270D LL PAH ONLY  
ALS Vial : 4 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 15:47:42 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041905.D  
 Acq On : 04 Dec 2019 03:53 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-BS1  
 Misc : 1x, 8270D LL PAH ONLY  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:28:58 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

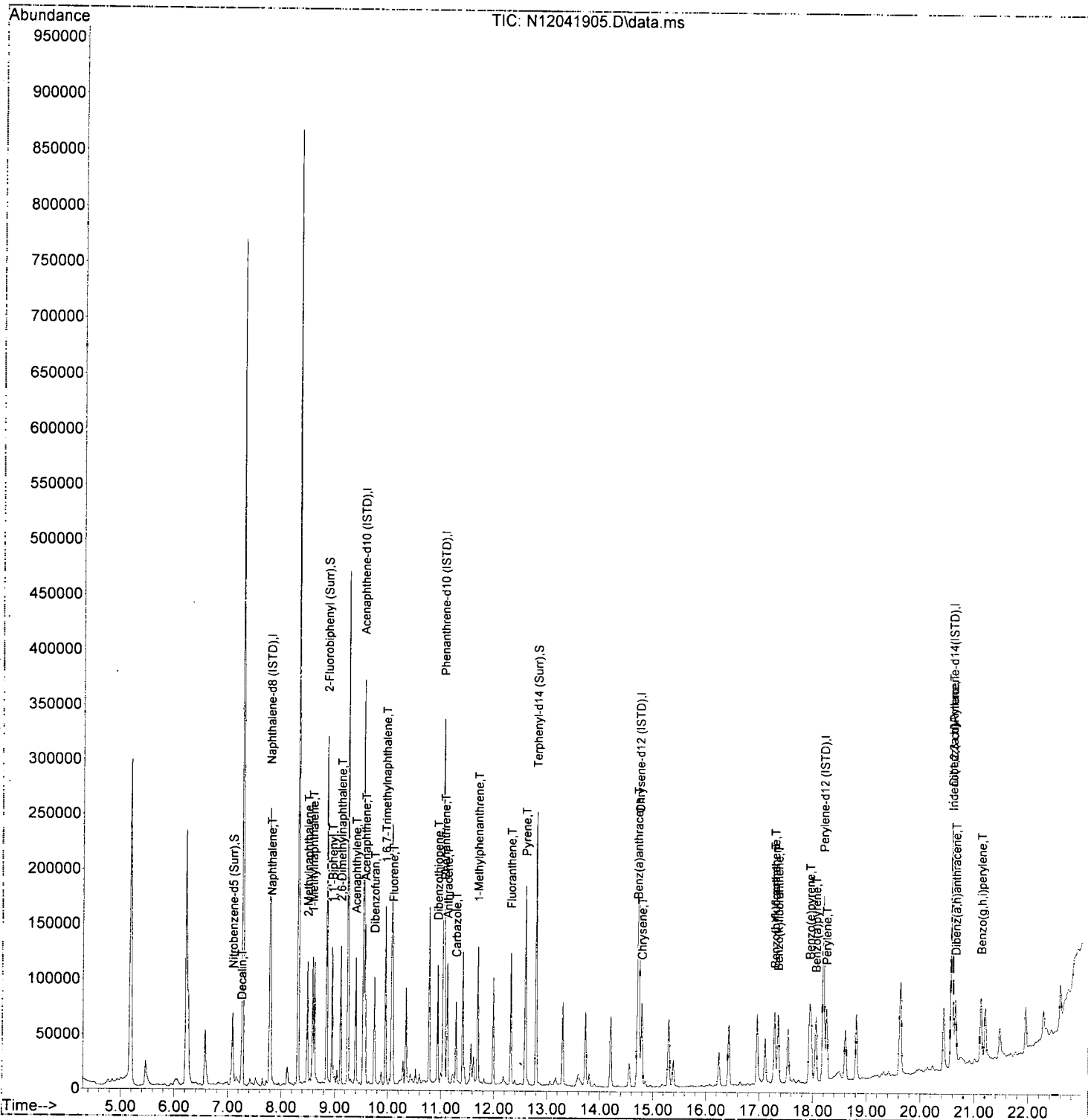
*DK* 12/4/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	173408	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.539	162	112058	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	186301	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	153877	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.194	264	145524	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.584	292	130668	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.091	82	41470	71.97	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.851	172	150186	89.84	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	2509	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	145010	89.60	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml	
Target Compounds						
						Qvalue
3) Decalin	7.254	138	2563	19.85	ng/ml	85
4) Naphthalene	7.802	128	66822	34.94	ng/ml	100
5) 2-Methylnaphthalene	8.489	142	49870	30.77	ng/ml	97
6) 1-Methylnaphthalene	8.589	142	48647	30.02	ng/ml	97
7) 1,1'-Biphenyl	8.950	154	60864	27.92	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.113	156	44181	27.75	ng/ml	98
12) Acenaphthylene	9.393	152	77404	31.82	ng/ml	100
13) Acenaphthene	9.568	153	53539	33.60	ng/ml	99
14) Dibenzofuran	9.743	168	64199	32.17	ng/ml	95
15) 1,6,7-Trimethylnaphtha...	9.952	170	43728	32.72	ng/ml	95
16) Fluorene	10.092	166	52547	32.23	ng/ml	100
18) Dibenzothiopene	10.938	184	65524	33.63	ng/ml	96
19) Phenanthrene	11.066	178	75873	34.80	ng/ml	100
20) Anthracene	11.118	178	67147	33.11	ng/ml	99
21) Carbazole	11.287	167	50831	30.98	ng/ml	99
22) 1-Methylphenanthrene	11.695	192	54367	35.90	ng/ml	98
23) Fluoranthene	12.319	202	77952	35.49	ng/ml	96
25) Pyrene	12.599	202	81125	33.74	ng/ml	99
27) Benz(a)anthracene	14.709	228	59764	33.45	ng/ml	100
28) Chrysene	14.790	228	59425	35.15	ng/ml	98
30) Benzo(b)fluoranthene	17.285	252	60608	36.09	ng/ml	93
31) Benzo(k)fluoranthene	17.349	252	58502	35.39	ng/ml	92
32) Benzo(b+k)fluoranthene	17.285	252	121996	71.03	ng/ml	91
34) Benzo(e)pyrene	17.938	252	58676	34.56	ng/ml	97
35) Benzo(a)pyrene	18.054	252	52203	36.32	ng/ml	96
36) Perylene	18.252	252	59780	33.77	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.590	276	52916	32.84	ng/ml	79
39) Dibenz(a,h)anthracene	20.648	278	51394	33.94	ng/ml	82
40) Benzo(g,h,i)perylene	21.126	276	56500	33.05	ng/ml	99

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

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041905.D  
 Acq On : 04 Dec 2019 03:53 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-BS1  
 Misc : 1x, 8270D LL PAH ONLY  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:28:58 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

*PAH 12/4/19*

*MOS*

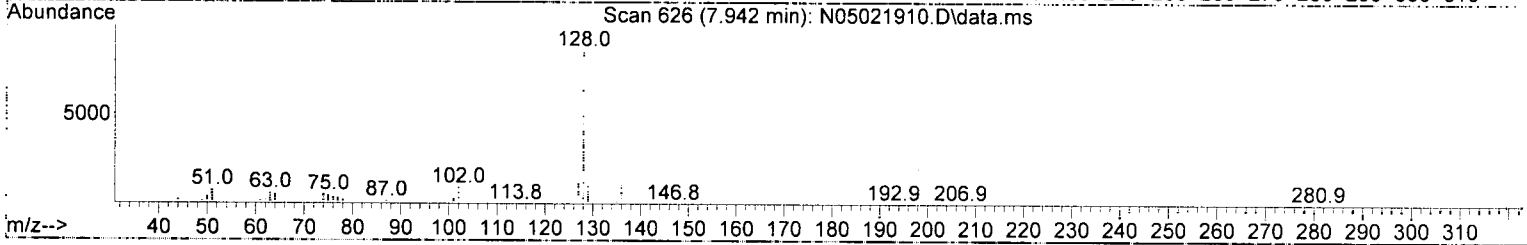
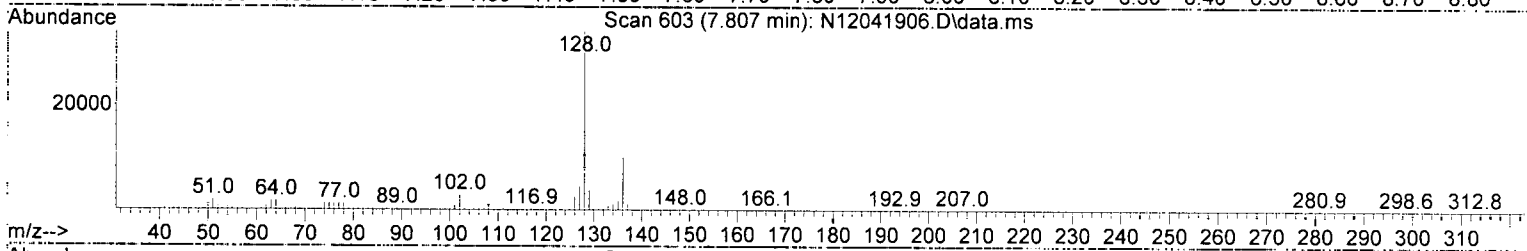
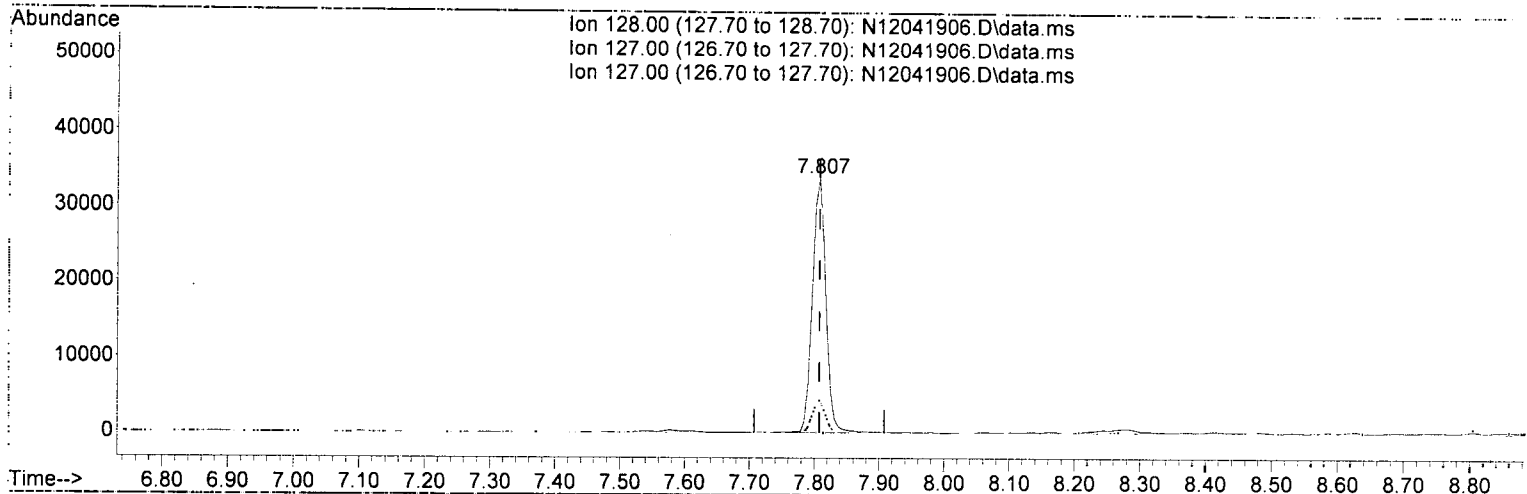
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Naphthalene-d8 (ISTD)	7.784	136	166737	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.539	162	105695	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.048	188	178711	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.732	240	136439	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.194	264	126907	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.584	292	103203	100.00	ng/ml	0.00
<b>System Monitoring Compounds</b>						
2) Nitrobenzene-d5 (Surr)	7.079	82	90	0.16	ng/ml	-0.02
10) 2-Fluorobiphenyl (Surr)	8.851	172	173	0.11	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	4488	0.67	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	281	0.20	ng/ml	0.00
33) Benzo(a)pyrene d-12 (S...	18.019	264	60	0.06	ng/ml	0.00
<b>Target Compounds</b>						
3) Decalin	0.000		0	N.D.		Qvalue
4) Naphthalene	7.807	128	48608	26.43	ng/ml	99
5) 2-Methylnaphthalene	8.489	142	81889	52.55	ng/ml	98
6) 1-Methylnaphthalene	8.589	142	50051	32.12	ng/ml	97
7) 1,1'-Biphenyl	8.956	154	3433	1.64	ng/ml	97
8) 2,6-Dimethylnaphthalene	9.119	156	20737	13.55	ng/ml	98
12) Acenaphthylene	9.393	152	22381	9.75	ng/ml	94
13) Acenaphthene	9.568	153	86216	57.37	ng/ml	99
14) Dibenzofuran	9.743	168	10371	5.51	ng/ml	91
15) 1,6,7-Trimethylnaphtha...	9.952	170	8184	6.49	ng/ml	97
16) Fluorene	10.092	166	54309	35.31	ng/ml	99
18) Dibenzothiopene	10.937	184	69223	37.04	ng/ml	96
19) Phenanthrene	11.072	178	569374	272.27	ng/ml	100
20) Anthracene	11.118	178	99184	50.99	ng/ml	98
21) Carbazole	11.287	167	8252	5.24	ng/ml	93
22) 1-Methylphenanthrene	11.689	192	15206	10.47	ng/ml	92
23) Fluoranthene	12.319	202	424827	201.63	ng/ml	96
25) Pyrene	12.599	202	511888	240.14	ng/ml	99
27) Benz(a)anthracene	14.709	228	79021	49.88	ng/ml#	53
28) Chrysene	14.784	228	97355	64.94	ng/ml	98
30) Benzo(b)fluoranthene	17.291	252	96112	65.63	ng/ml	92
31) Benzo(k)fluoranthene	17.291	252	120647	83.68	ng/ml	90 <i>ms Hit mos</i>
32) Benzo(b+k)fluoranthene	17.291	252	128090	85.52	ng/ml	90
34) Benzo(e)pyrene	17.938	252	62513	42.22	ng/ml	98
35) Benzo(a)pyrene	18.054	252	94442	75.35	ng/ml	96
36) Perylene	18.252	252	27767	17.99	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.590	276	64231	50.46	ng/ml	78
39) Dibenz(a,h)anthracene	20.648	278	7411	6.20	ng/ml	93
40) Benzo(g,h,i)perylene	21.126	276	80464	59.59	ng/ml	99

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(4) Naphthalene (T)

7.807min (-0.000) 26.43 ng/ml

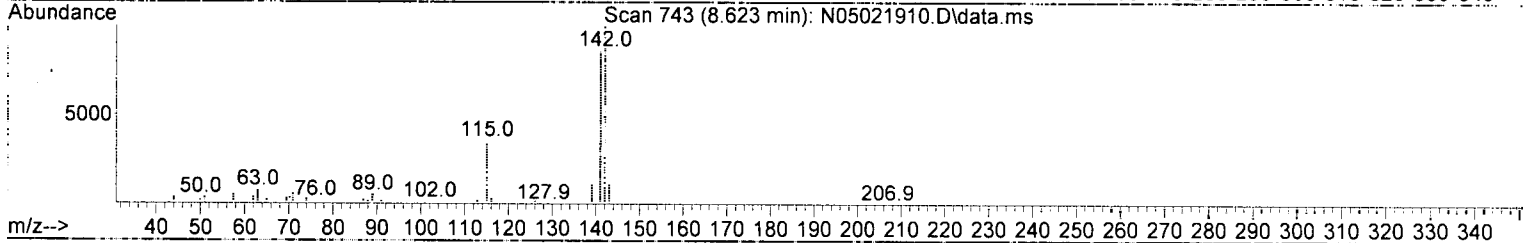
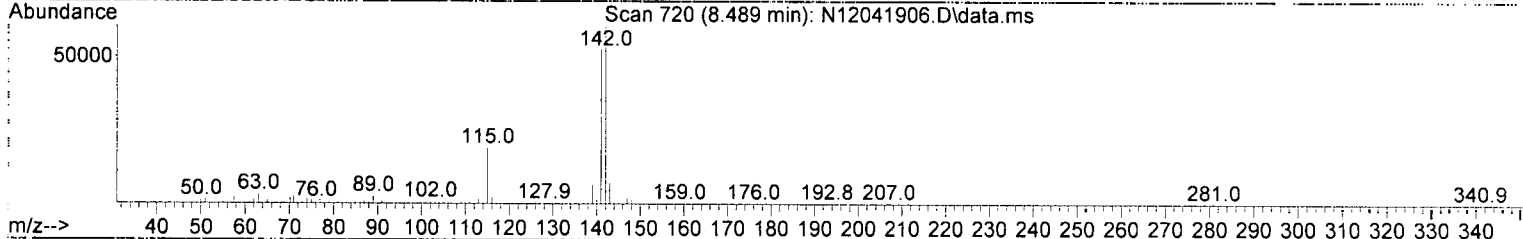
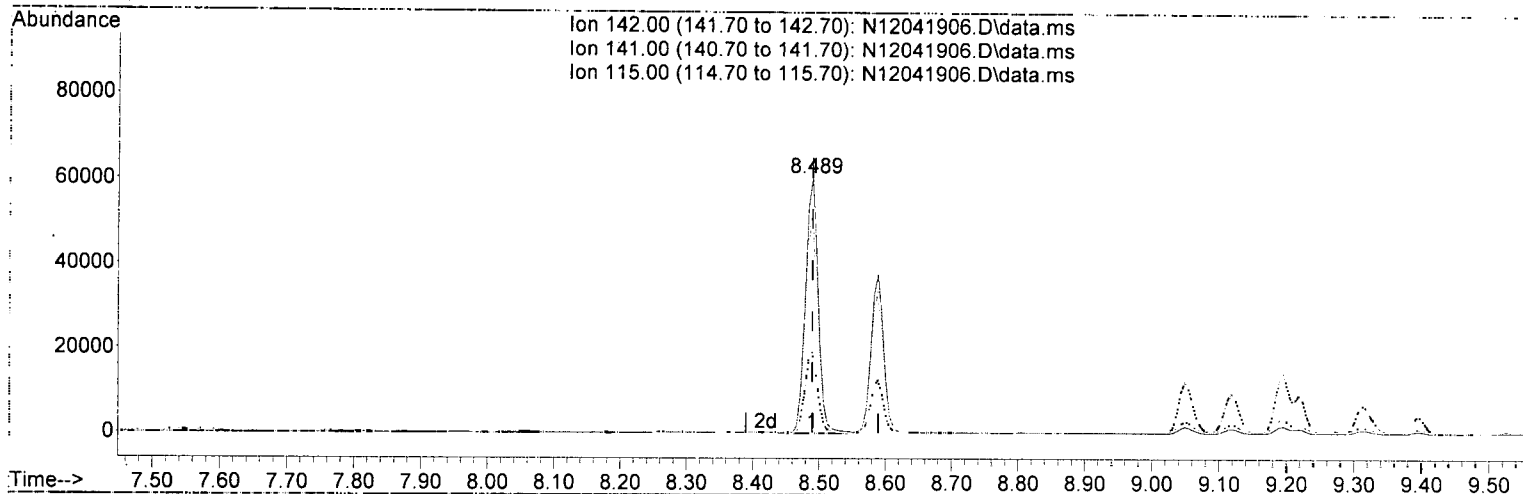
response 48608

Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	12.83
127.00	12.60	12.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(5) 2-Methylnaphthalene (T)

8.489min (-0.000) 52.55 ng/ml

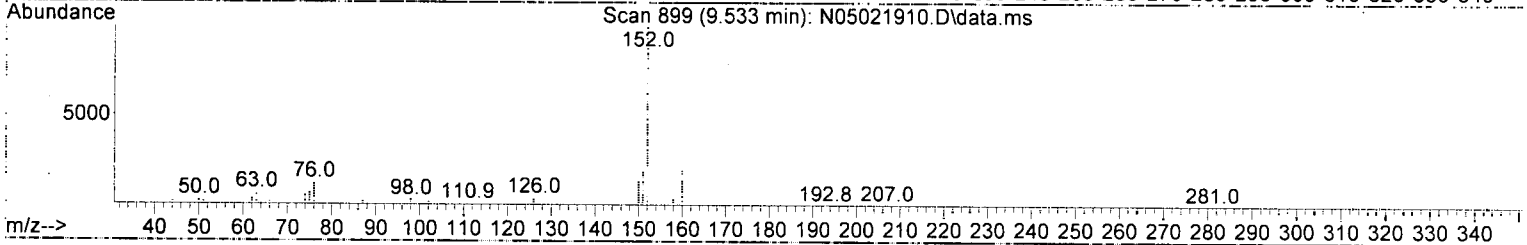
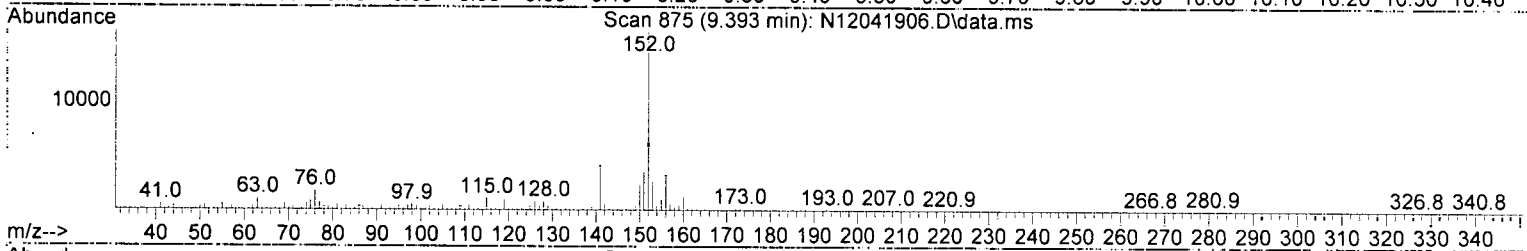
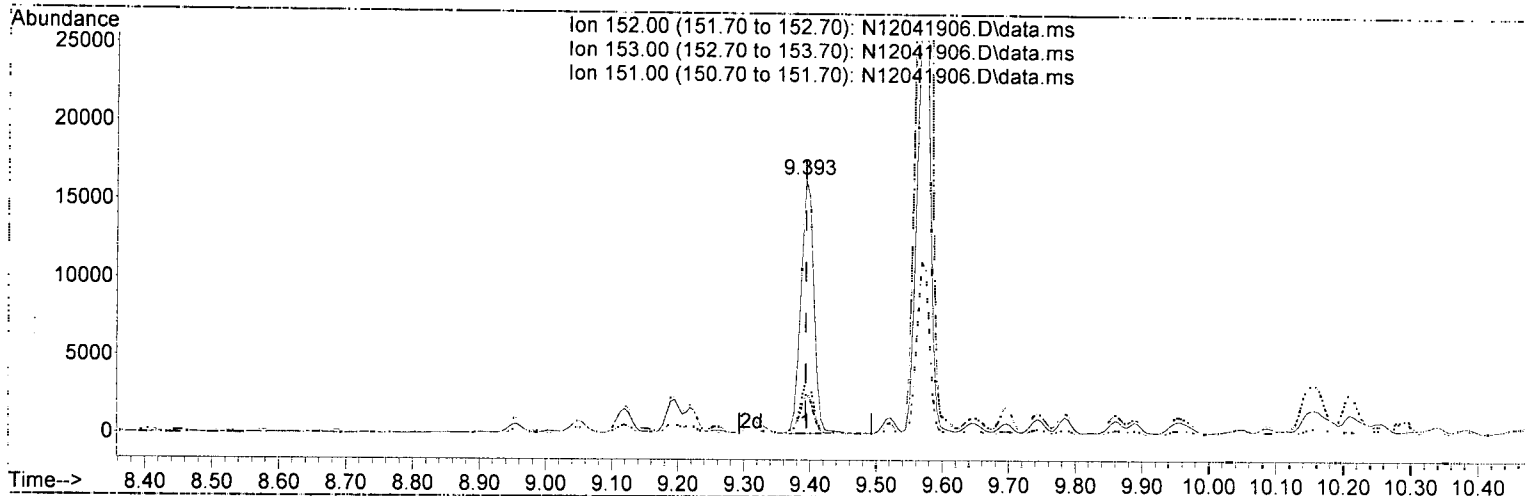
response	81889
Ion	Exp% Act%
142.00	100.00 100.00
141.00	86.60 87.18
115.00	35.70 31.64
0.00	0.00 0.00



Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(12) Acenaphthylene (T)

9.393min (-0.000) 9.75 ng/ml

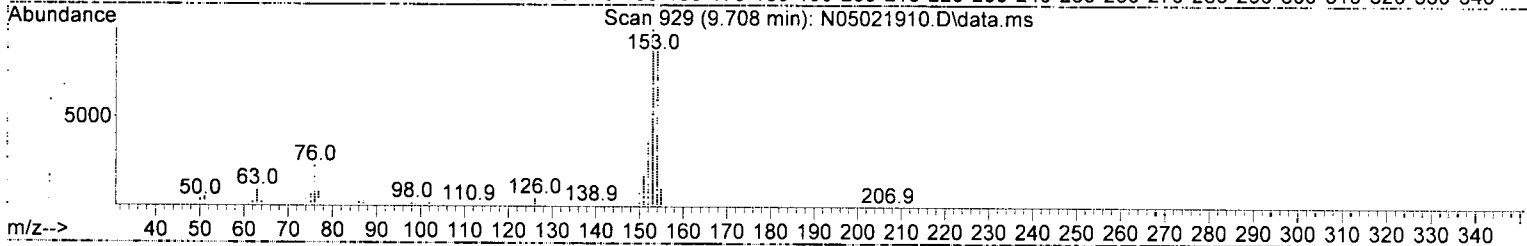
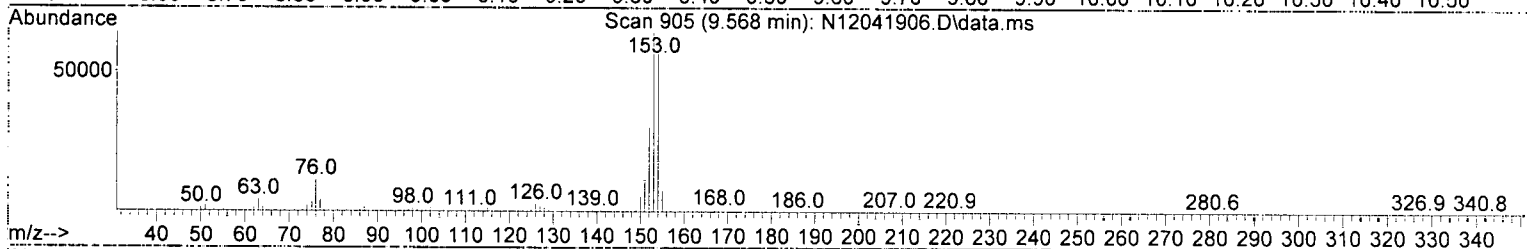
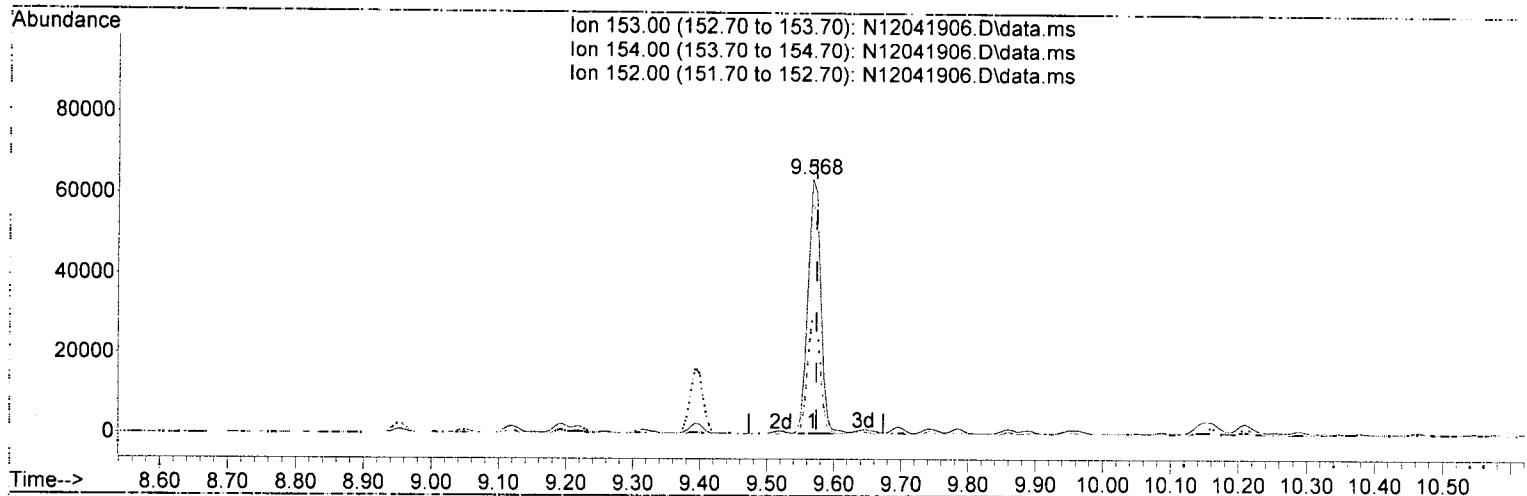
response 22381

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	15.69
151.00	19.30	21.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(13) Acenaphthene (T)

9.568min (-0.006) 57.37 ng/ml

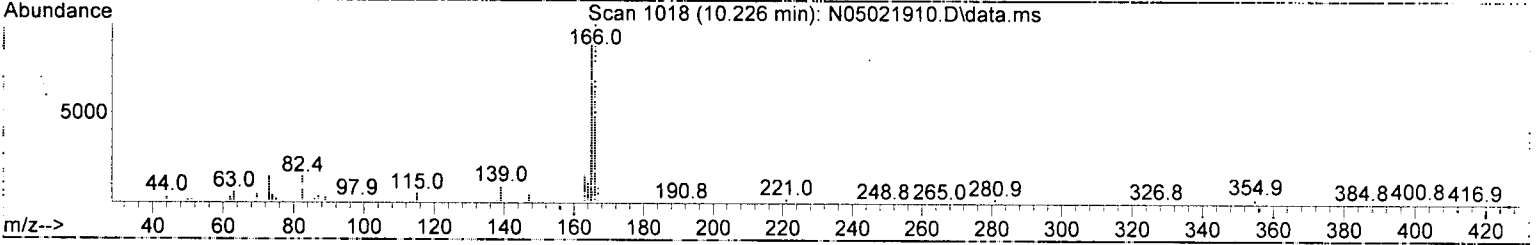
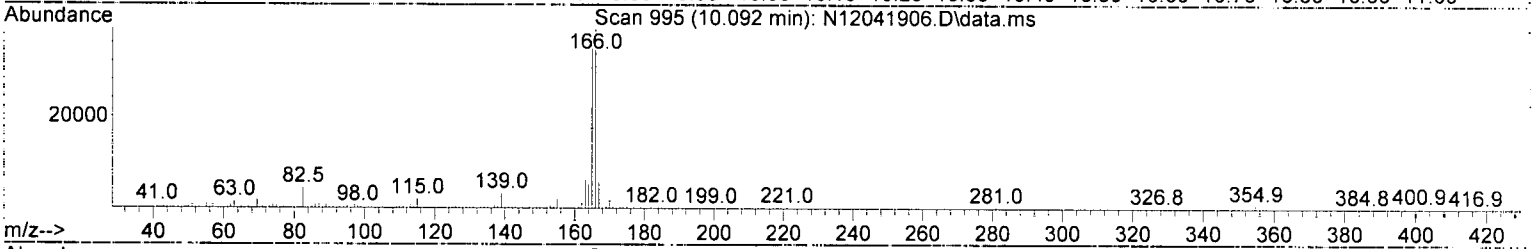
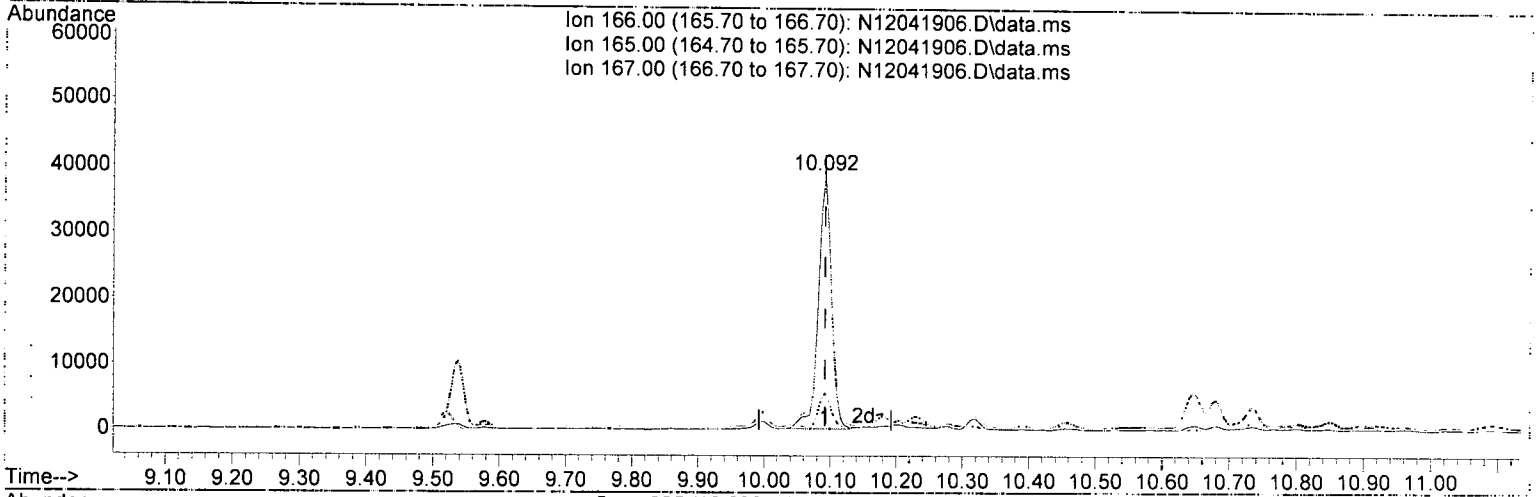
response 86216

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	89.99
152.00	46.80	47.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(16) Fluorene (T)

10.092min ( 0.000) 35.31 ng/ml

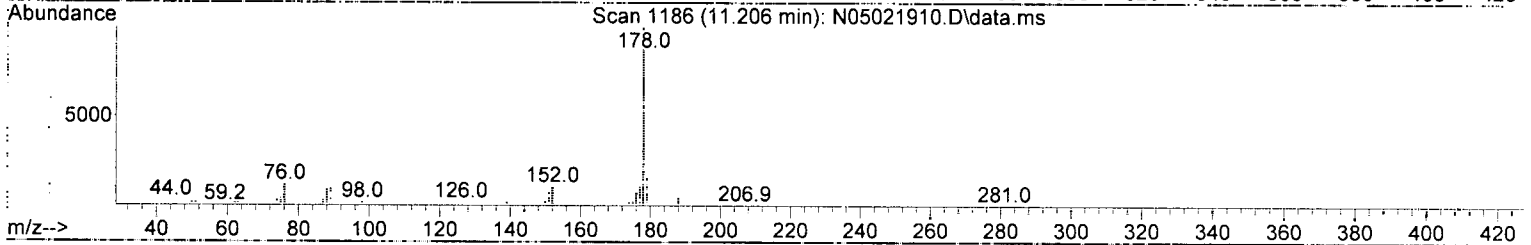
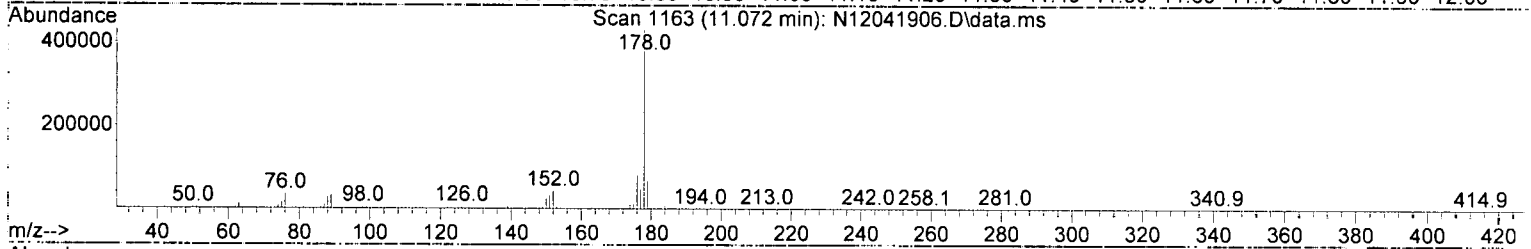
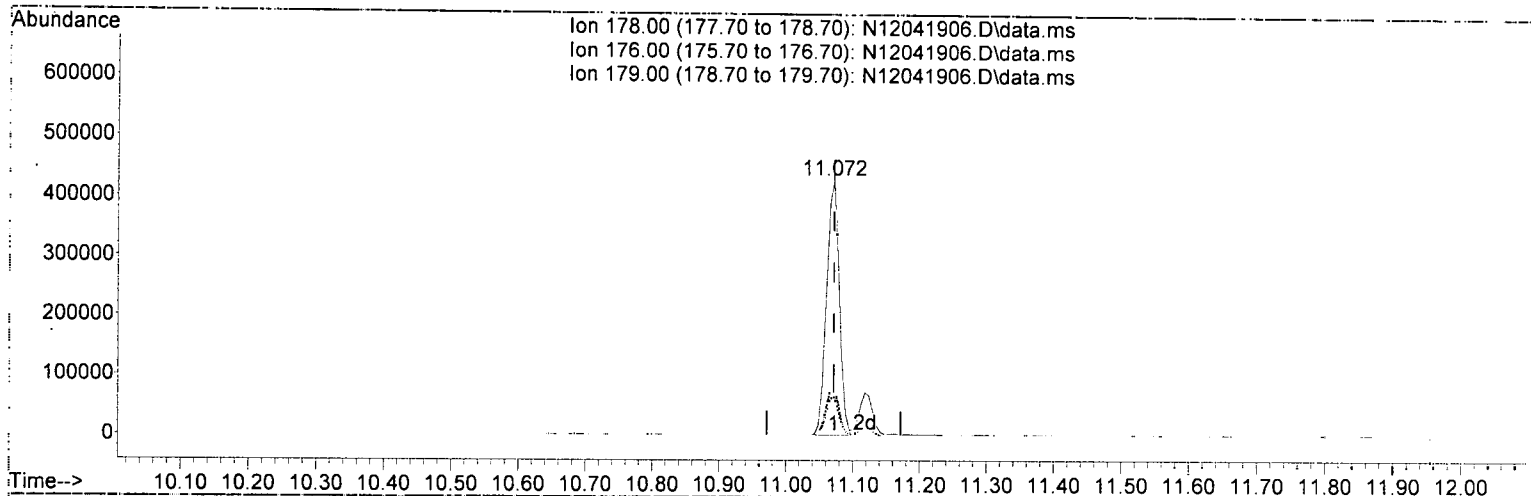
response 54309

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	94.84
167.00	13.60	14.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(19) Phenanthrene (T)

11.072min (-0.000) 272.27 ng/ml

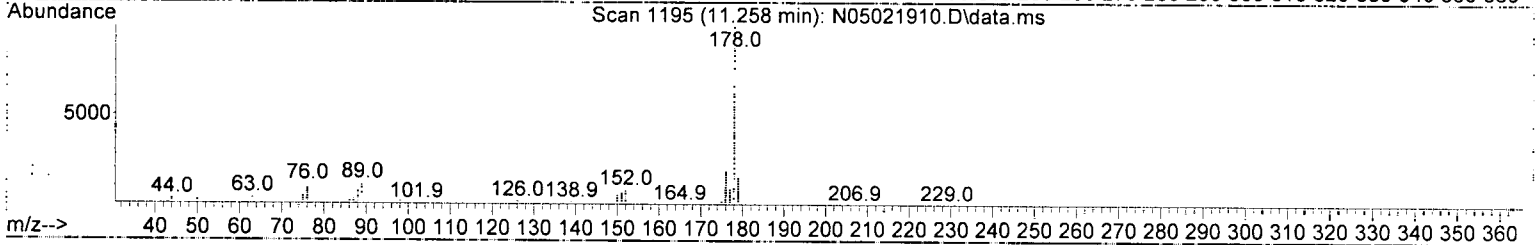
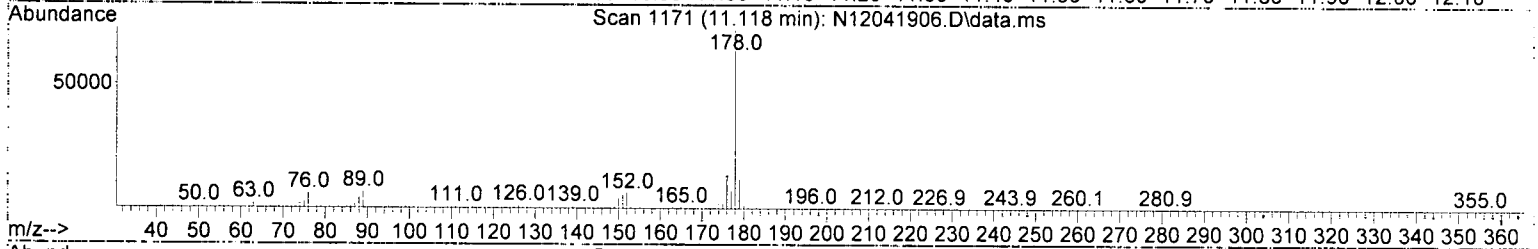
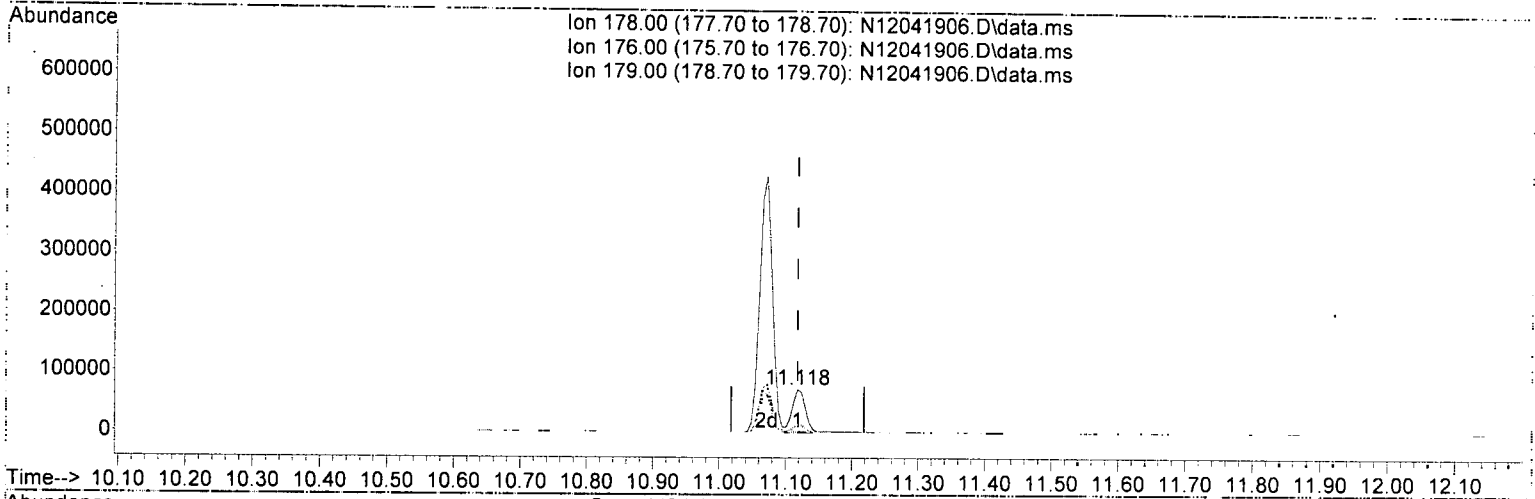
response 569374

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.96
179.00	15.10	15.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(20) Anthracene (T)

11.118min (-0.000) 50.99 ng/ml

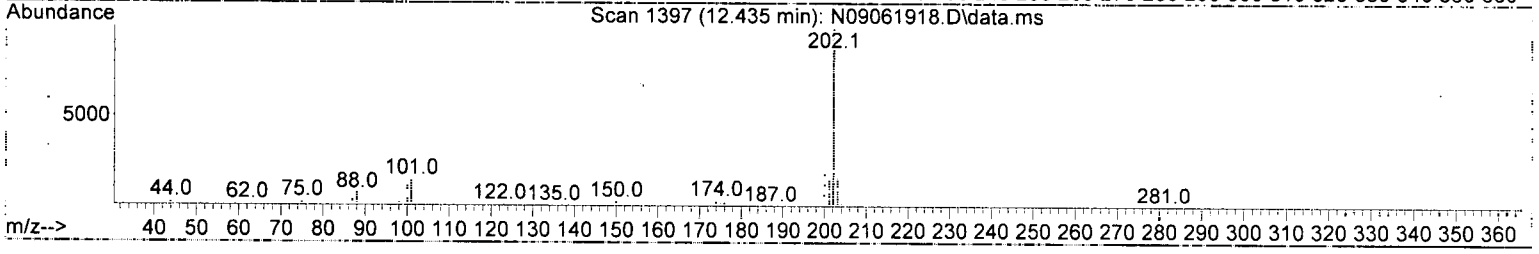
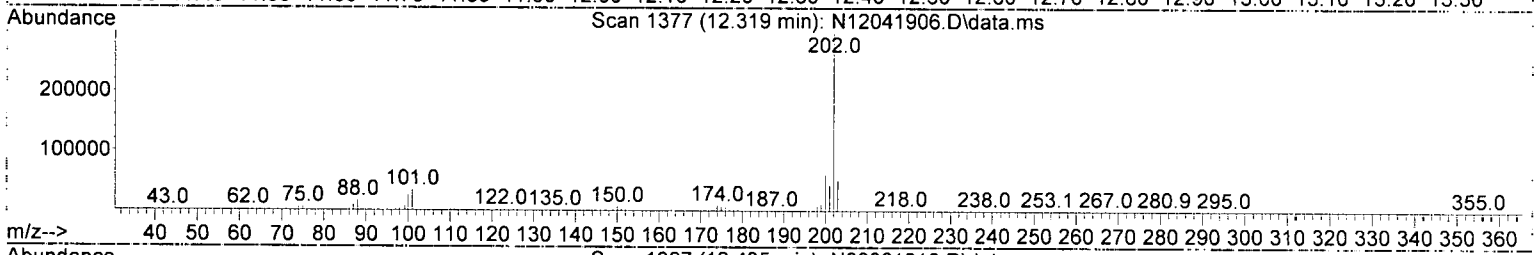
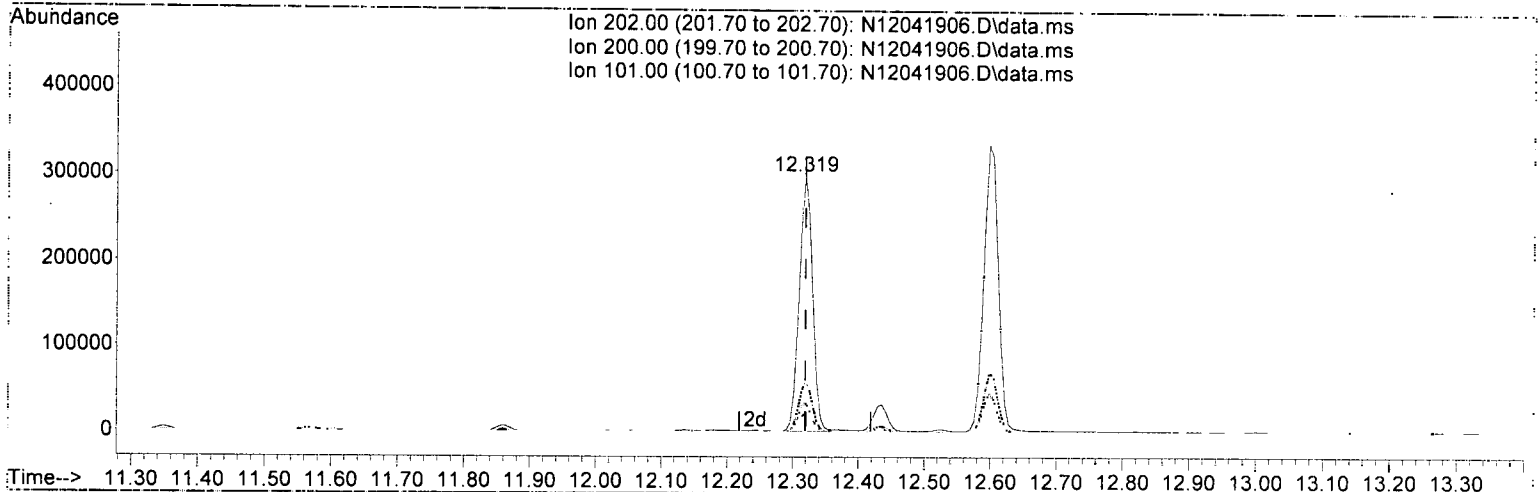
response 99184

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	18.33
179.00	15.30	16.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(23) Fluoranthene (T)

12.319min ( 0.000) 201.63 ng/ml

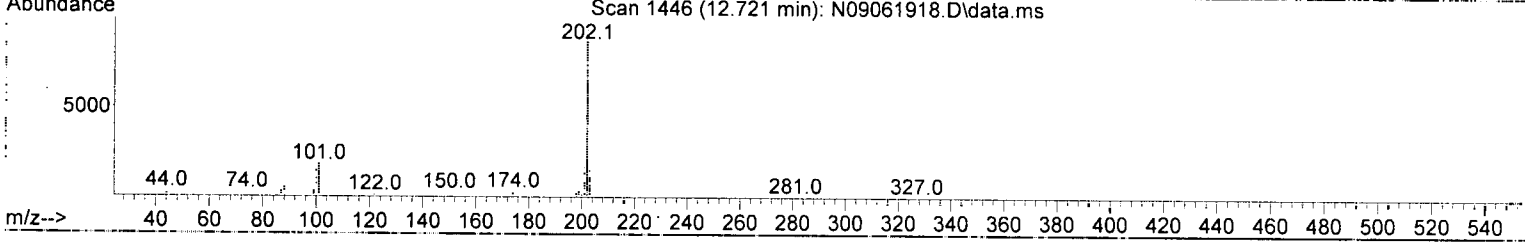
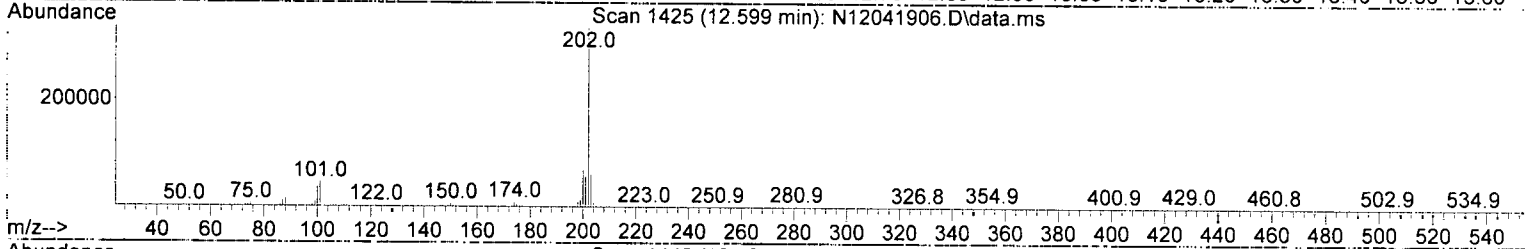
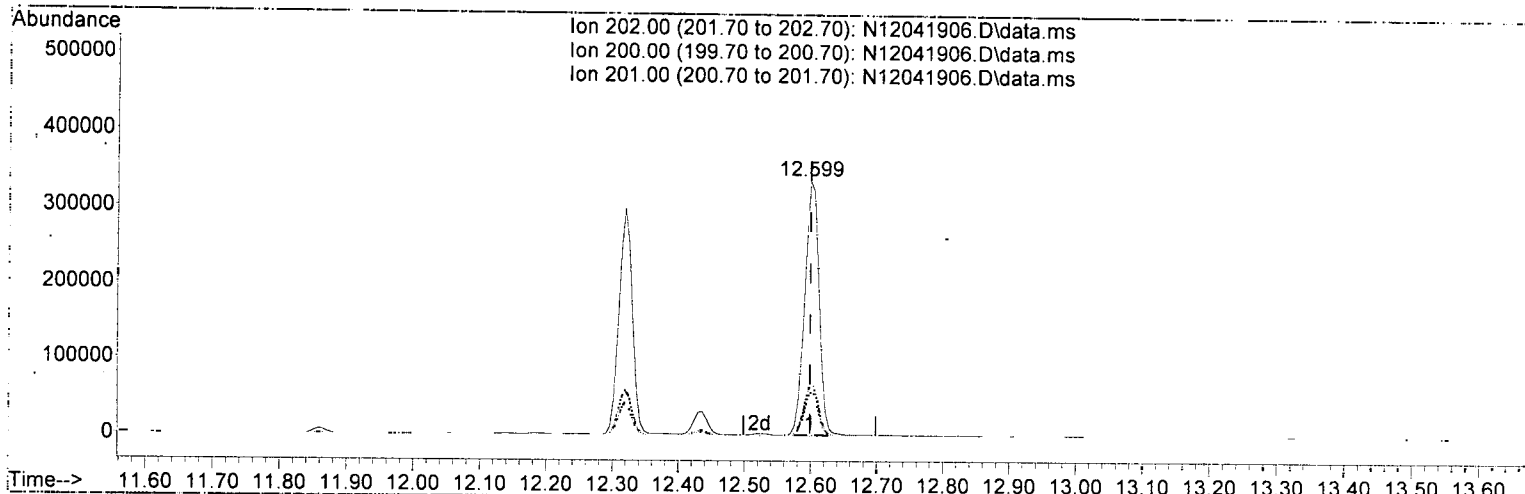
response 424827

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.99
101.00	15.30	11.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(25) Pyrene (T)

12.599min ( 0.000) 240.14 ng/ml

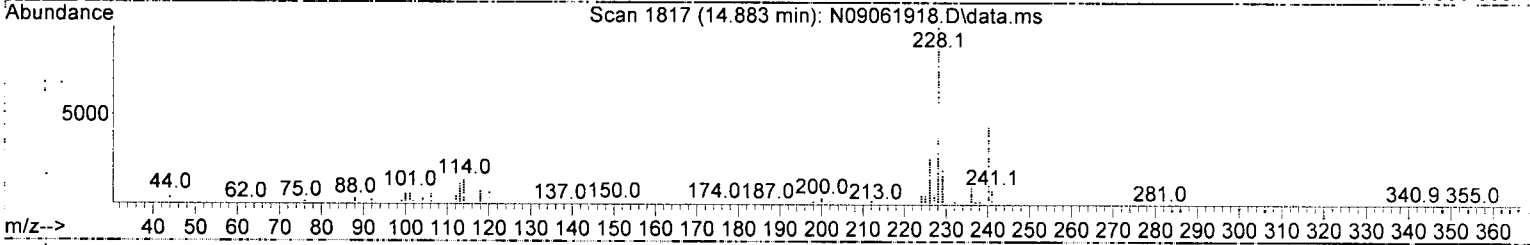
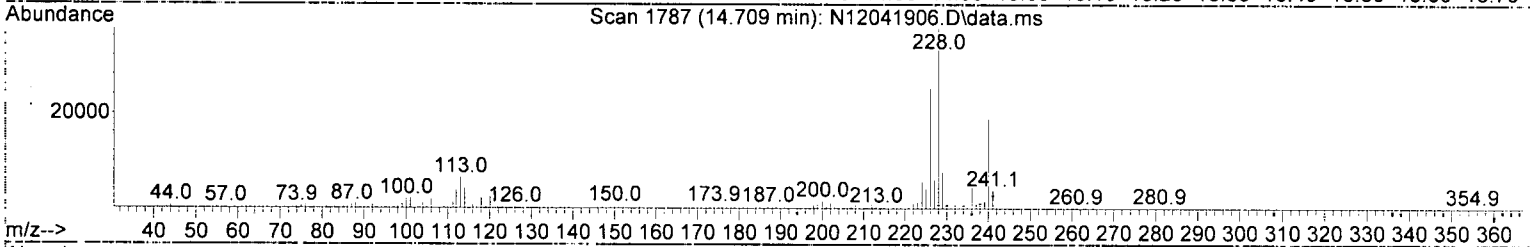
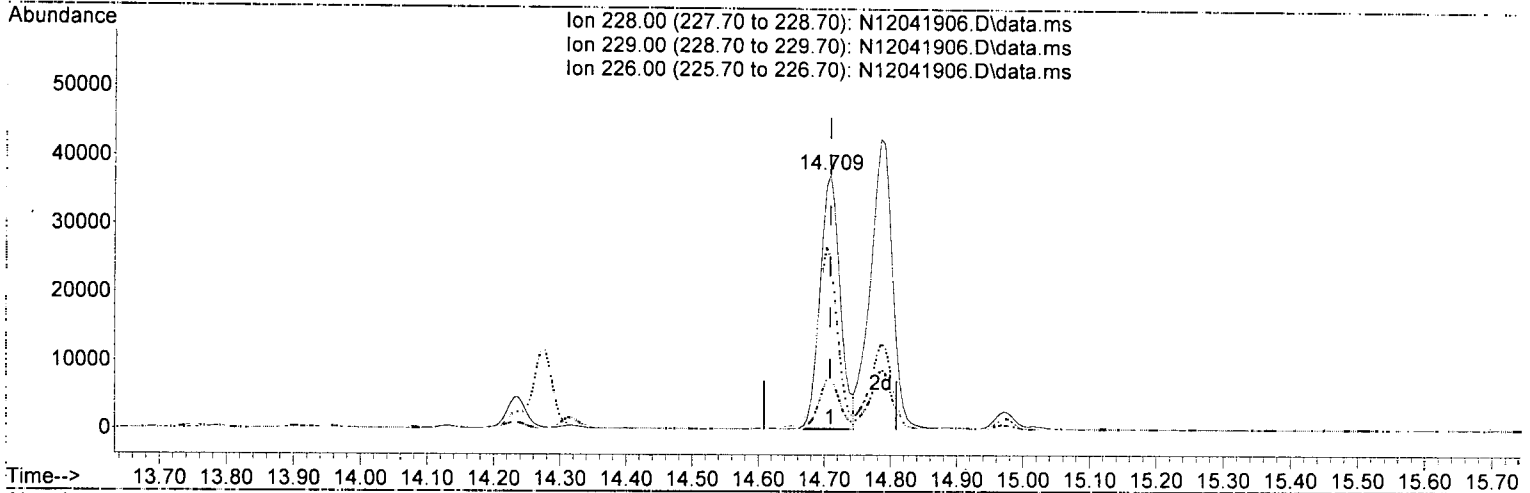
response 511888

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.37
201.00	16.80	17.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(27) Benz(a)anthracene (T)

14.709min ( 0.000) 49.88 ng/ml

response 79021

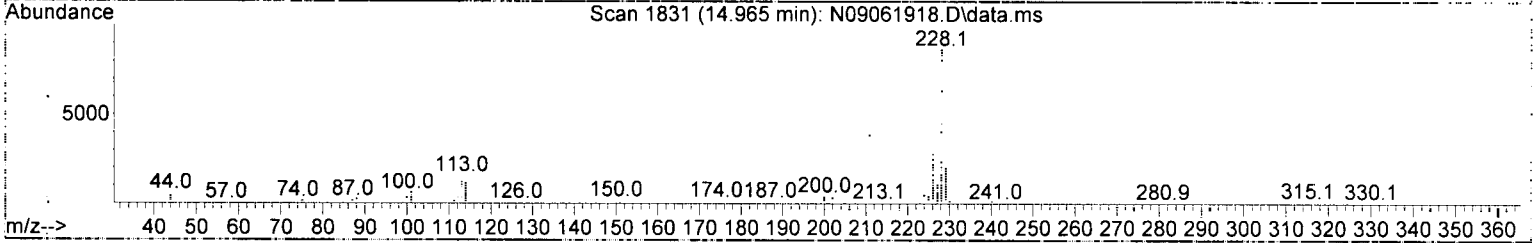
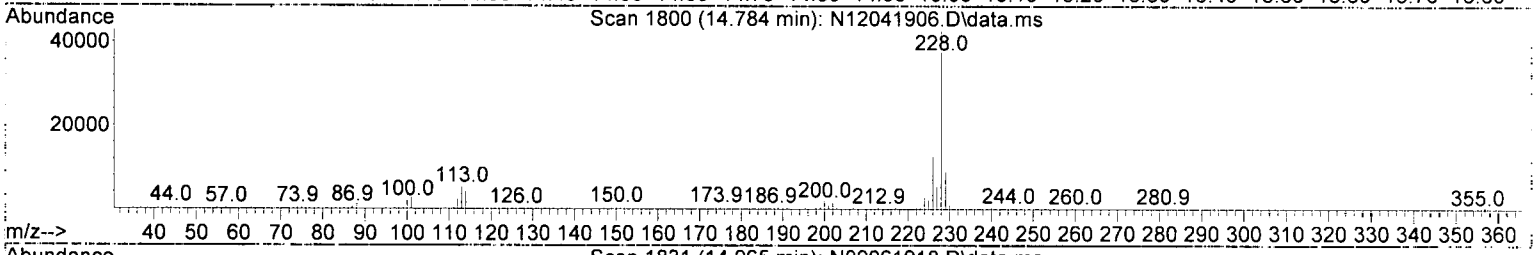
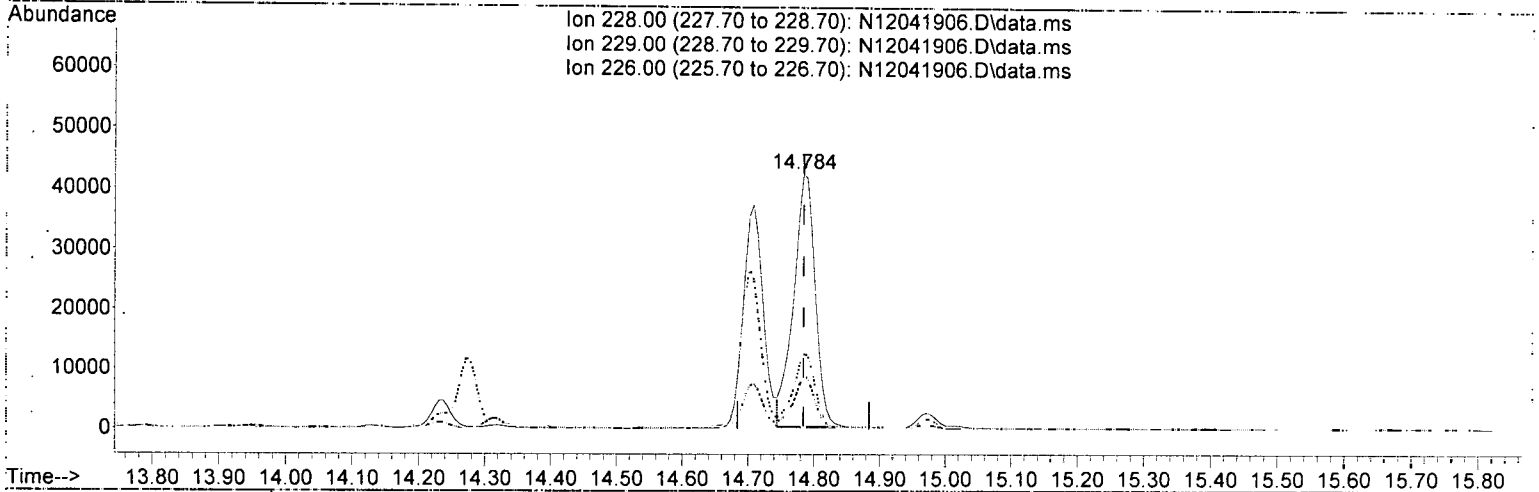
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.28
226.00	26.20	67.34#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(28) Chrysene (T)

14.784min ( 0.000) 64.94 ng/ml

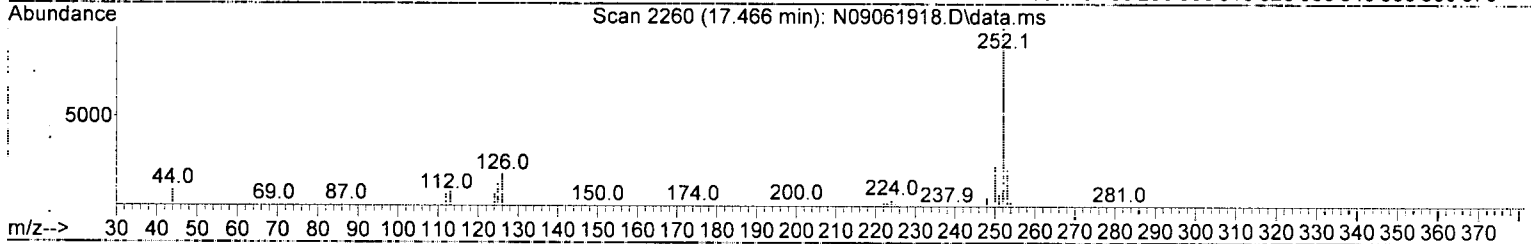
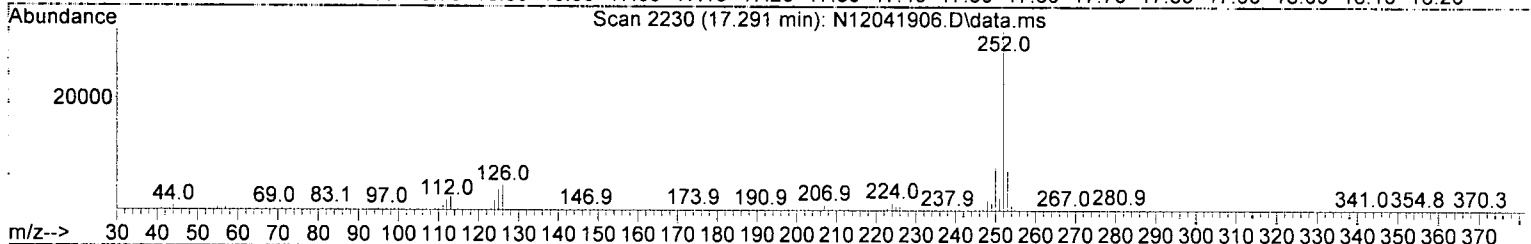
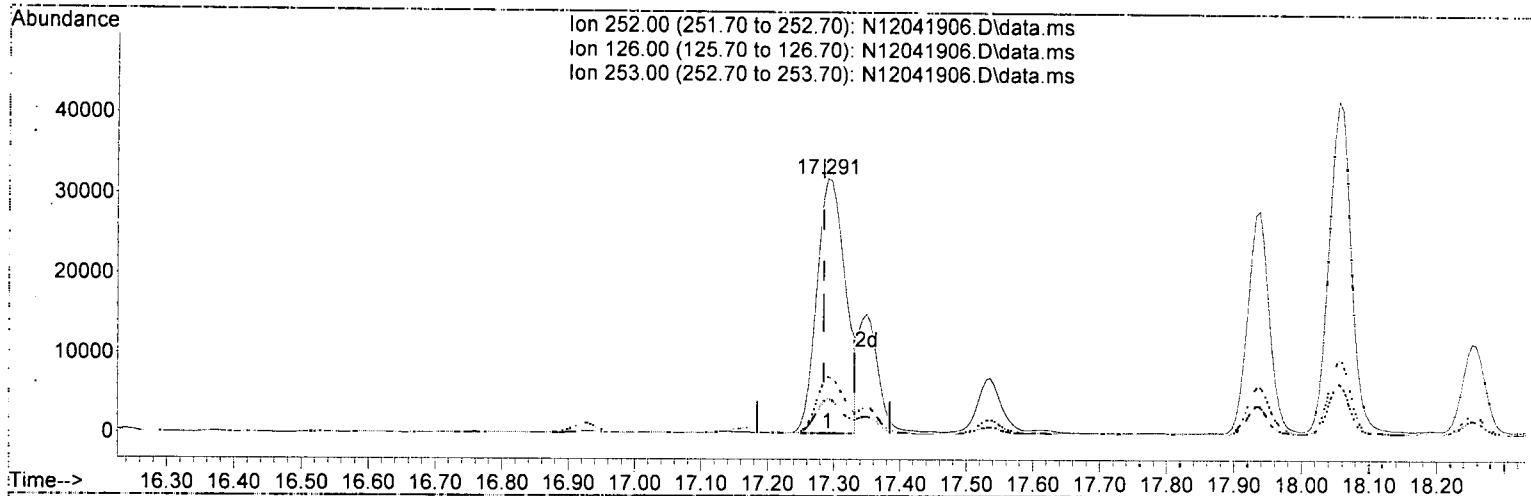
response 97355

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.70
226.00	28.60	29.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



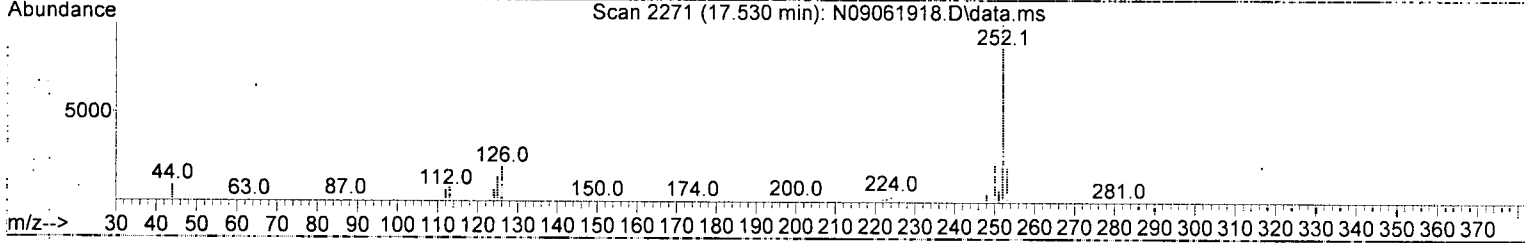
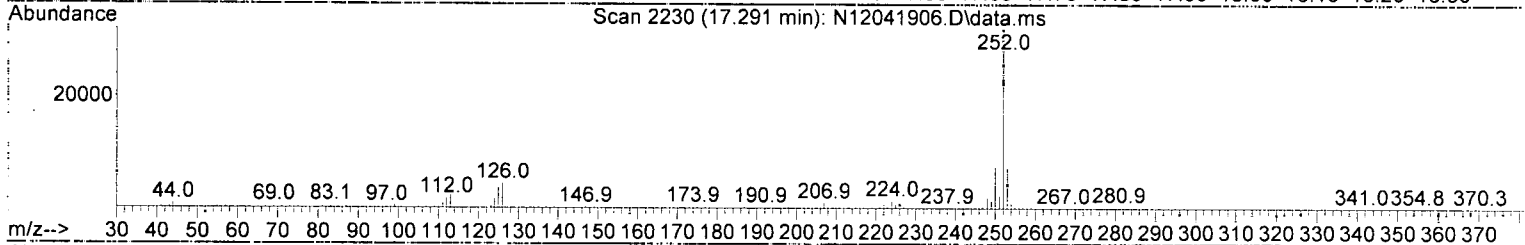
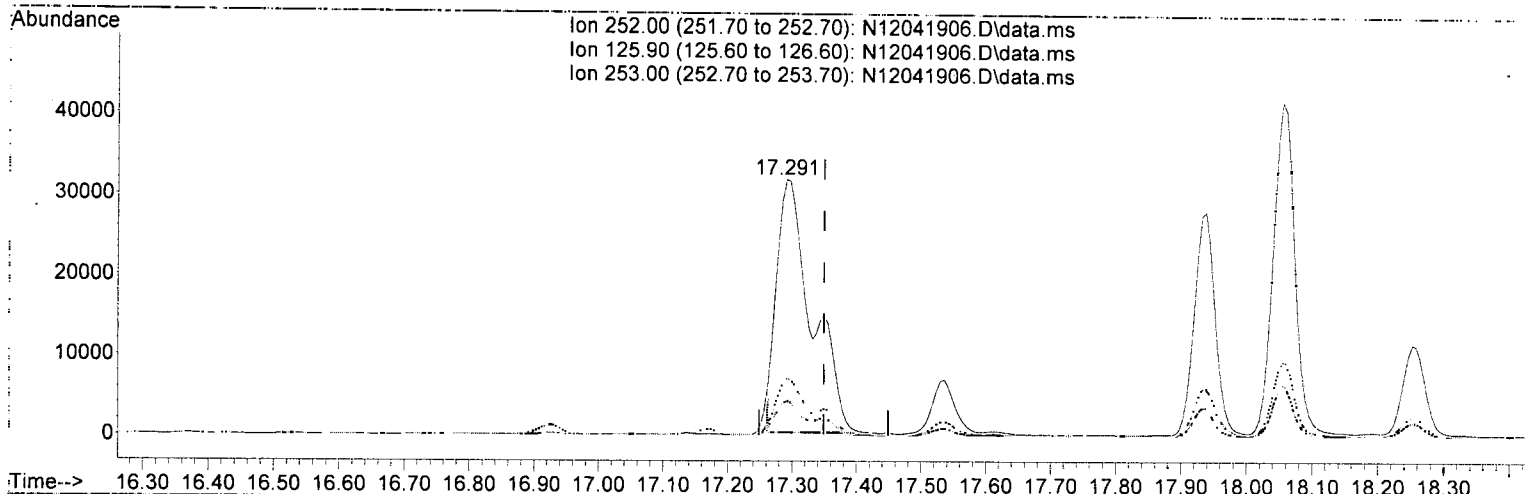
TIC: N12041906.D\data.ms

(30) Benzo(b)fluoranthene (T)		
17.291min (+ 0.006)	65.63	ng/ml
response	96112	
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.57
253.00	21.10	22.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



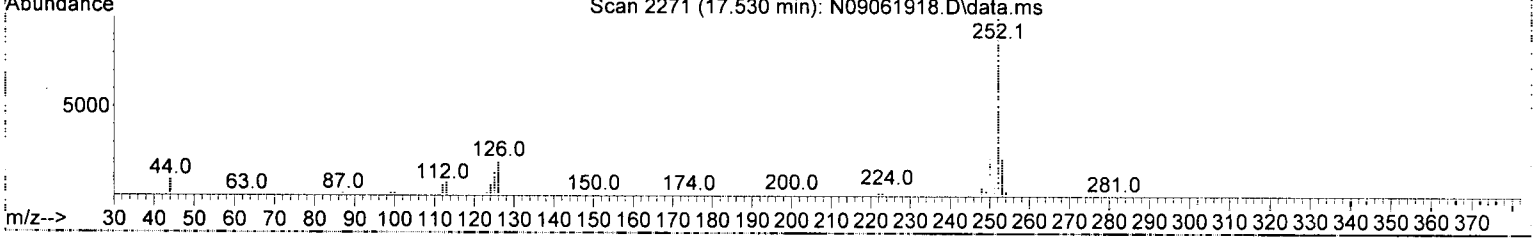
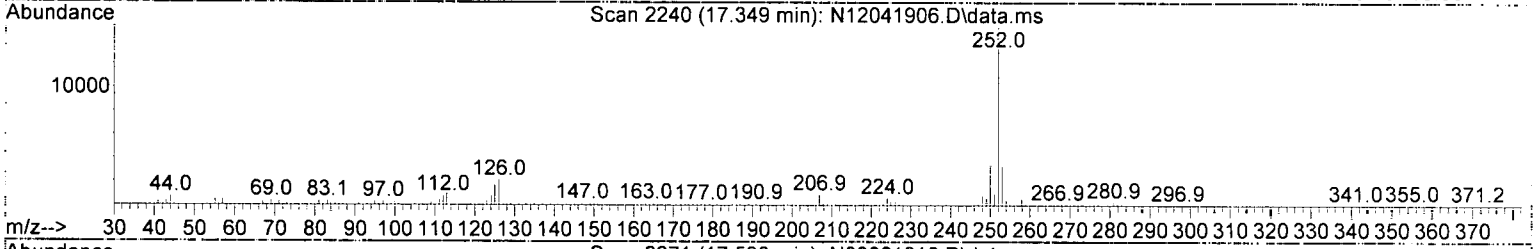
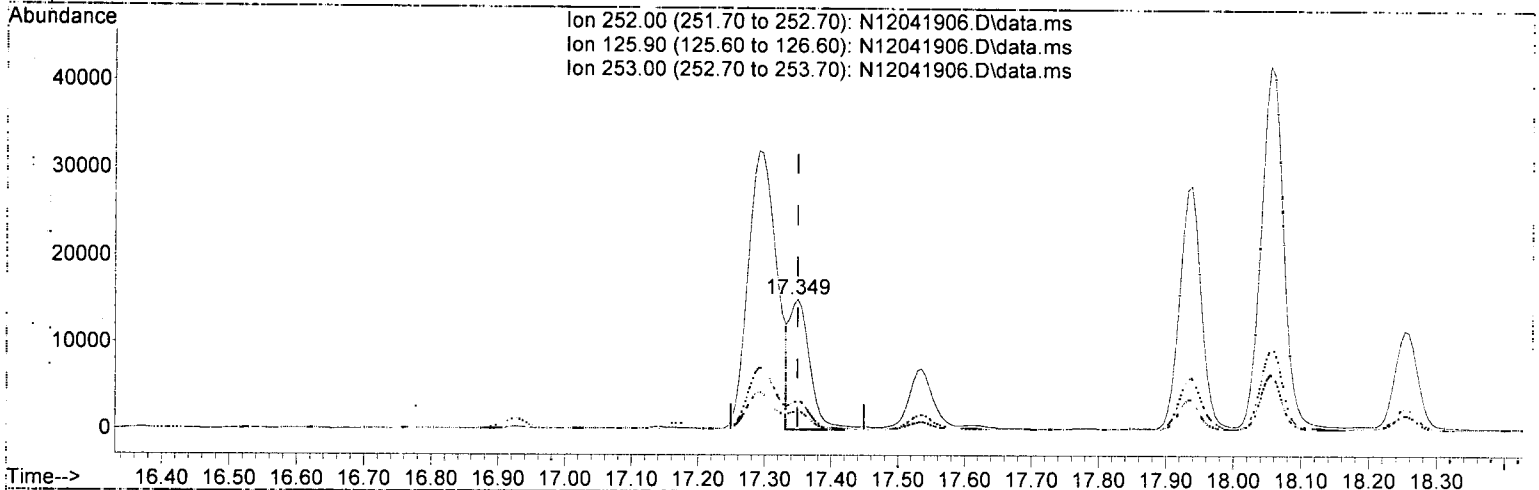
TIC: N12041906.D\data.ms

(31) Benzo(k)fluoranthene (T)		
17.291min (-0.058)	83.68	ng/ml
response	120647	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.57
253.00	21.50	22.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.349min ( 0.000) 21.99 ng/ml m

*MOS*  
*DTH 12/4/19*

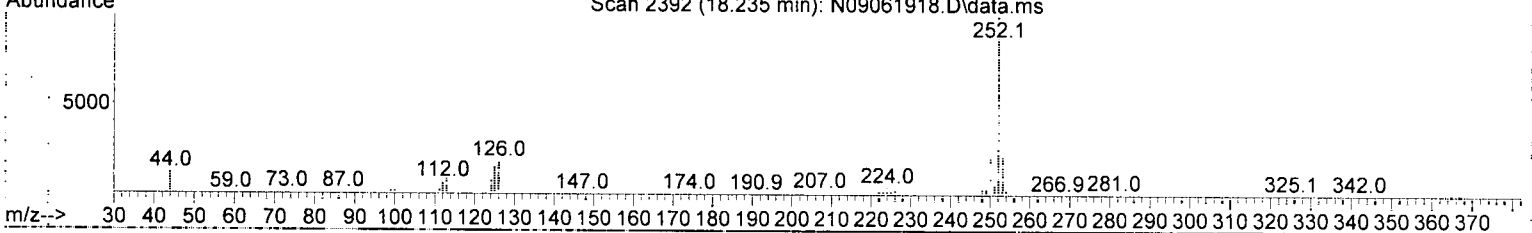
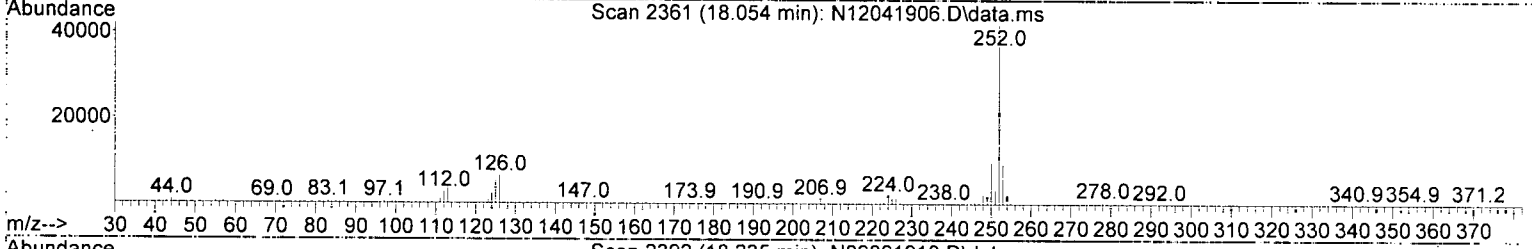
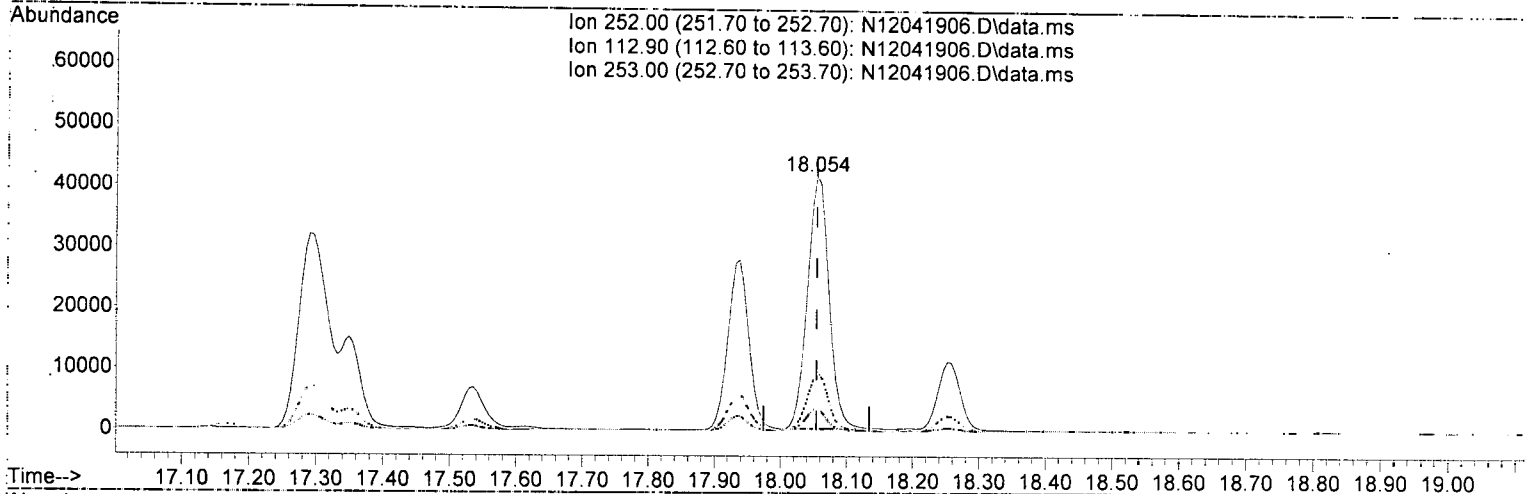
response 31705

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	14.11
253.00	21.50	22.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(35) Benzo(a)pyrene (T)

18.054min ( 0.000) 75.35 ng/ml

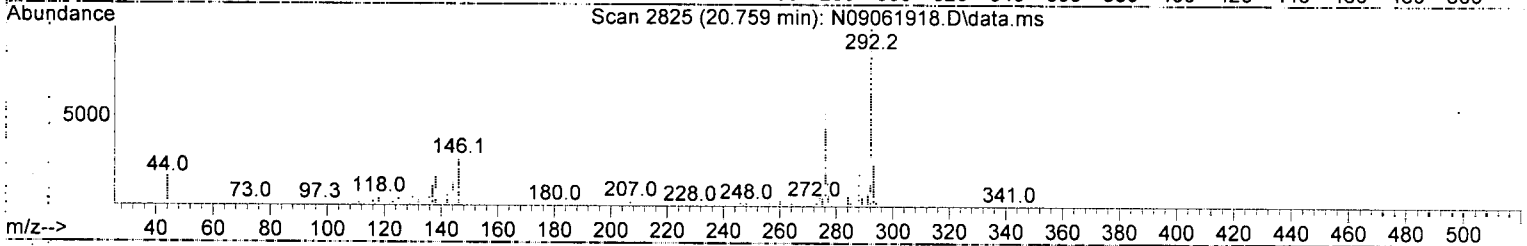
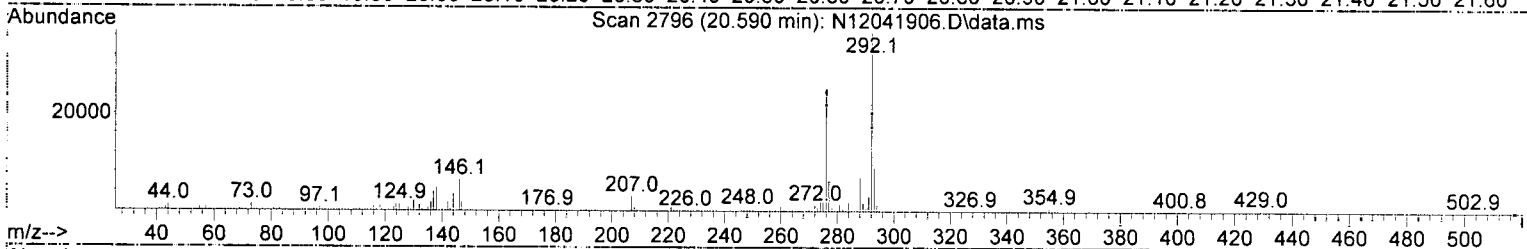
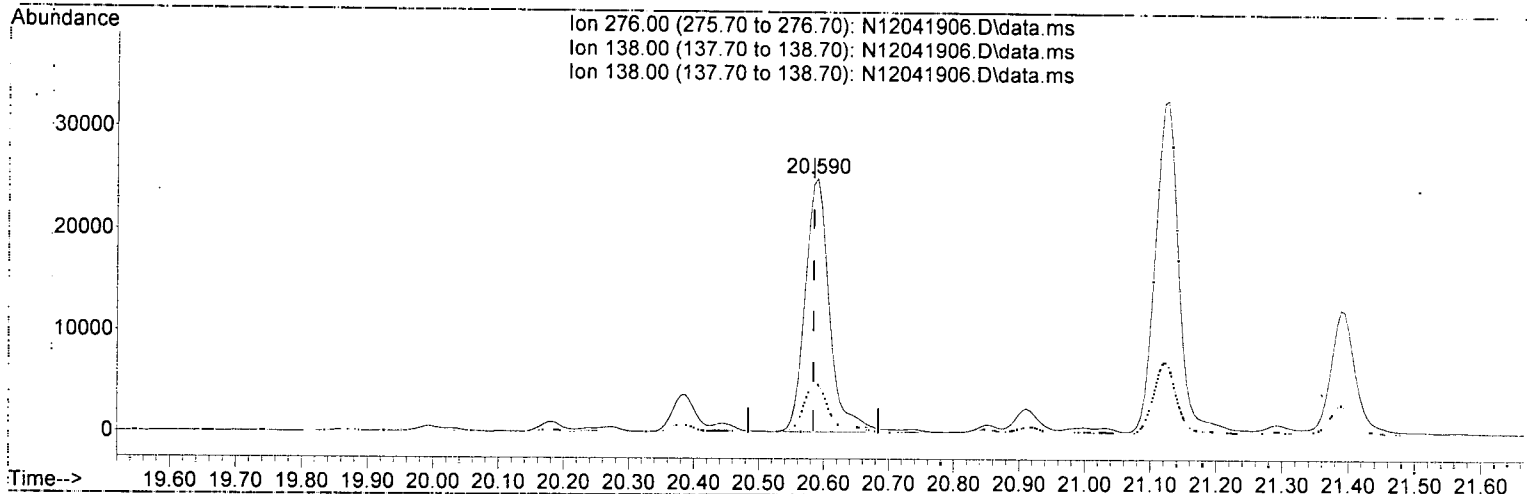
response 94442

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.91
253.00	21.90	22.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)

20.590min (+ 0.006) 50.46 ng/ml

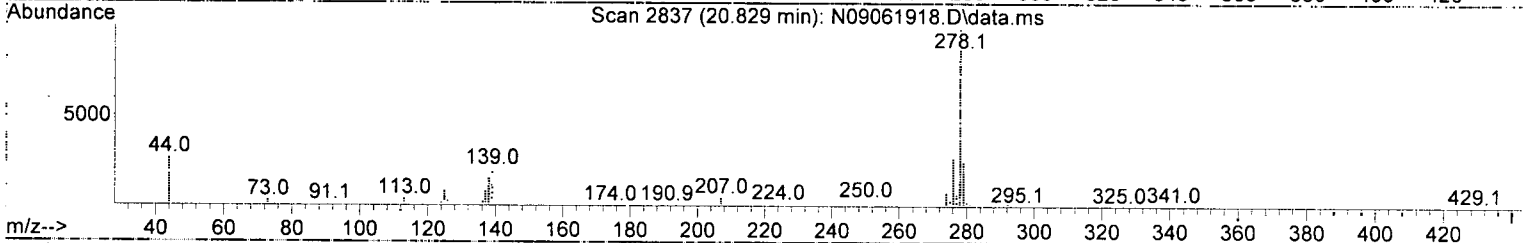
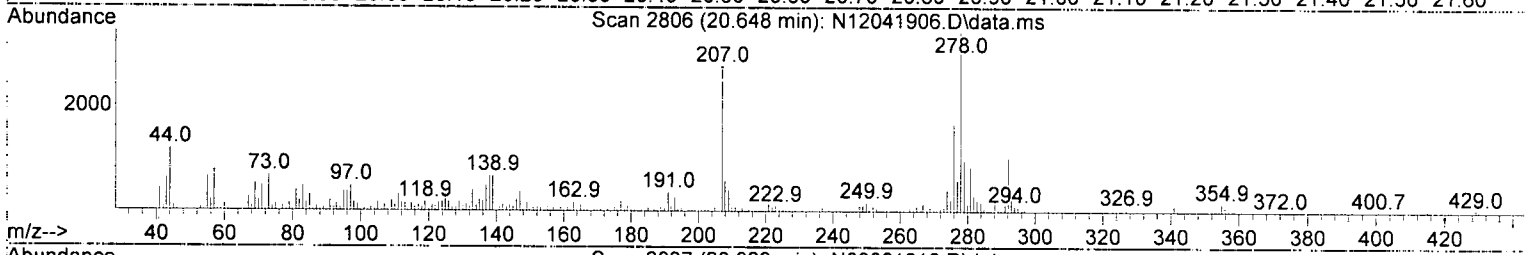
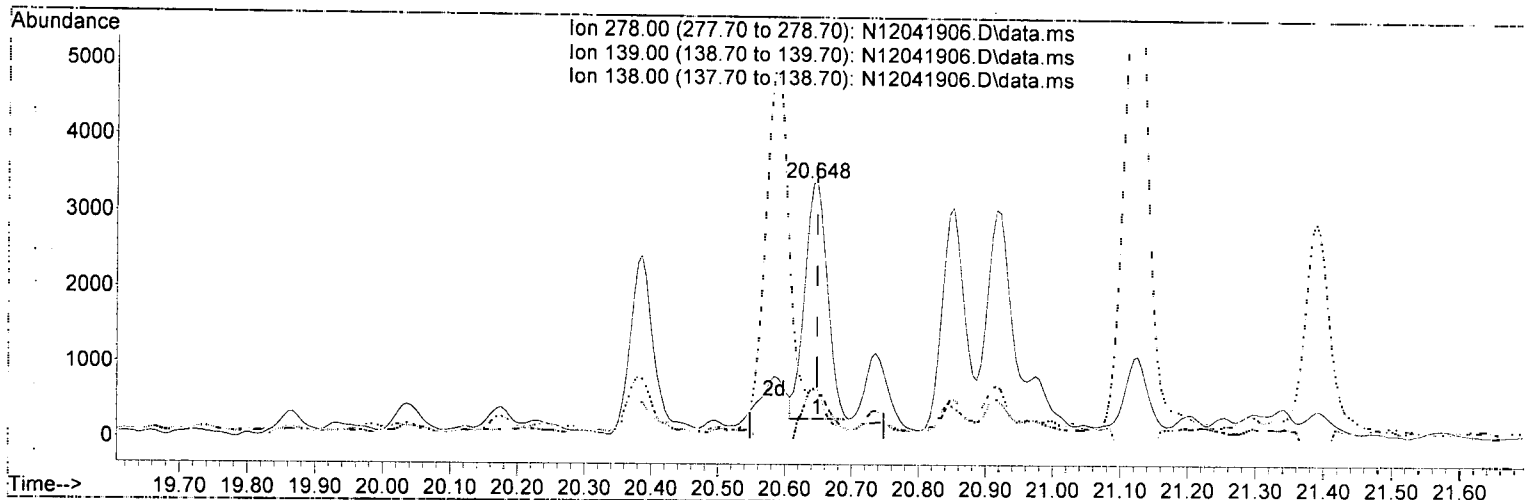
response 64231

Ion	Exp%	Act%
276.00	100.00	100.00
138.00	31.60	19.42
138.00	31.60	19.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(39) Dibenz(a,h)anthracene (T)

20.648min ( 0.000) 6.20 ng/ml

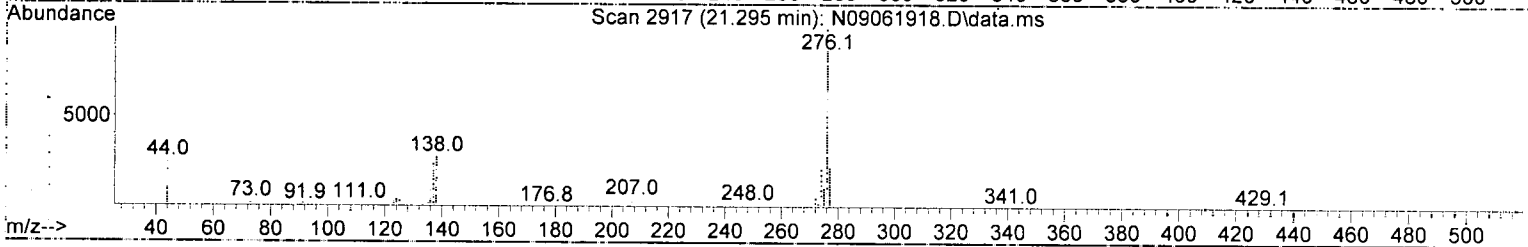
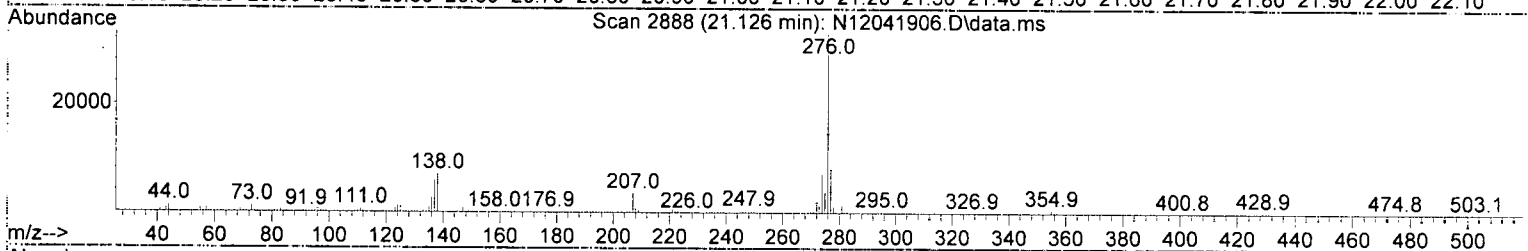
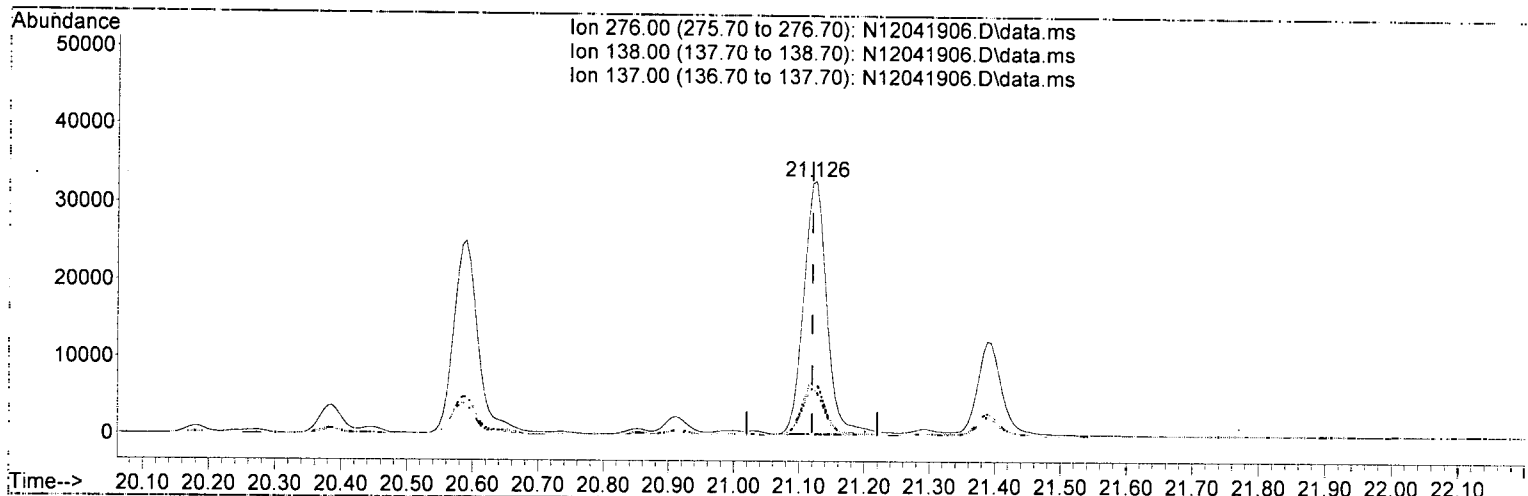
response 7411

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	19.75
138.00	19.90	19.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041906.D  
 Acq On : 04 Dec 2019 04:26 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-17@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041906.D\data.ms

(40) Benzo(g,h,i)perylene (T)

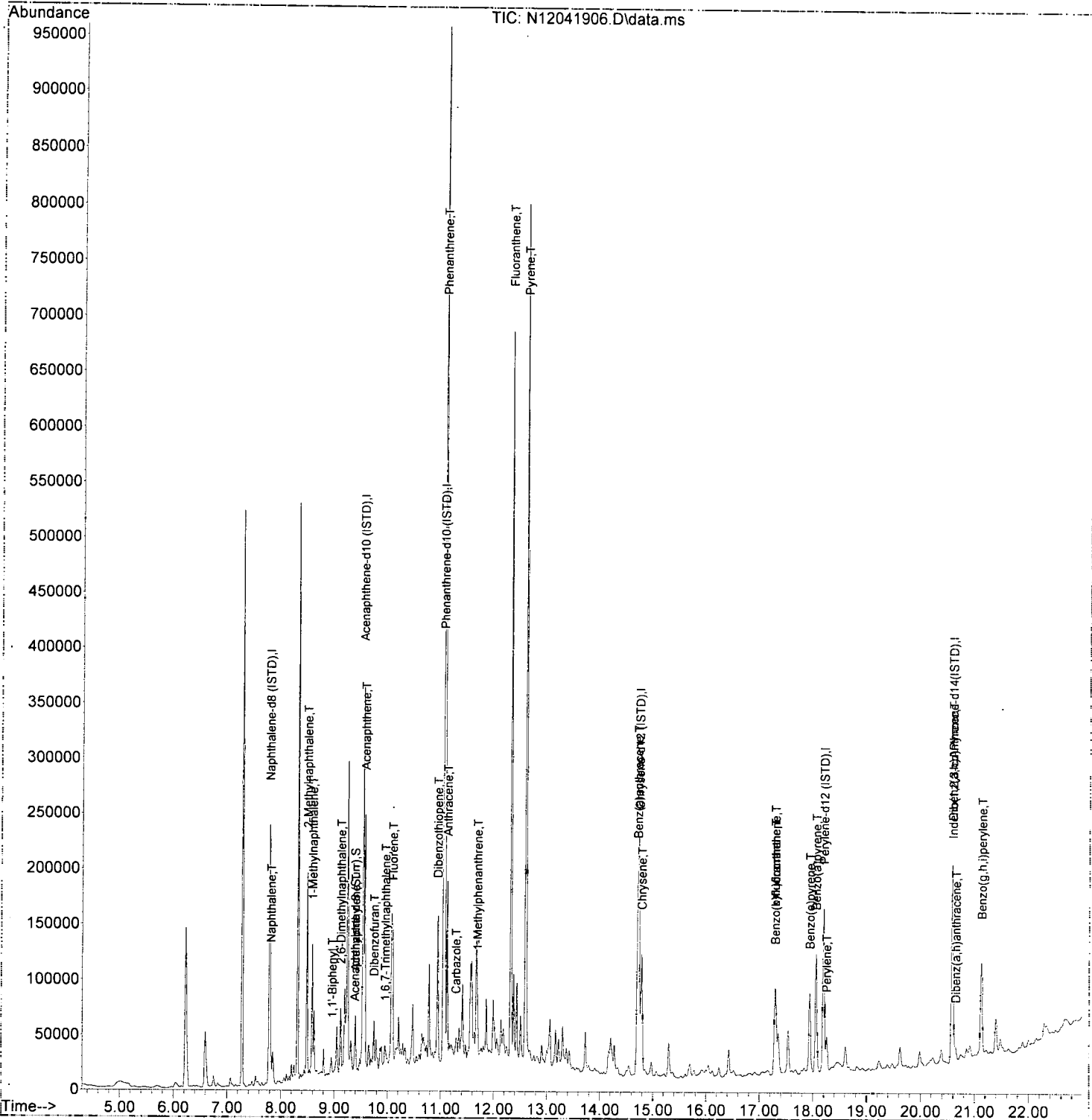
21.126min (+ 0.006) 59.59 ng/ml

response	80464
Ion	Exp% Act%
276.00	100.00 100.00
138.00	21.00 21.27
137.00	18.60 17.77
0.00	0.00 0.00



Data Path : U:\data\2109-12\9L04042\  
Data File : N12041906.D  
Acq On : 04 Dec 2019 04:26 pm  
Operator : JK/ AMS/ DTH  
Sample : A9I0890-17@1000  
Misc : 1000x, 8270D LL PAH ONLY  
ALS Vial : 6 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:08 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041907.D  
 Acq On : 04 Dec 2019 04:58 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-MS1@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

*DTA 12/4/19*

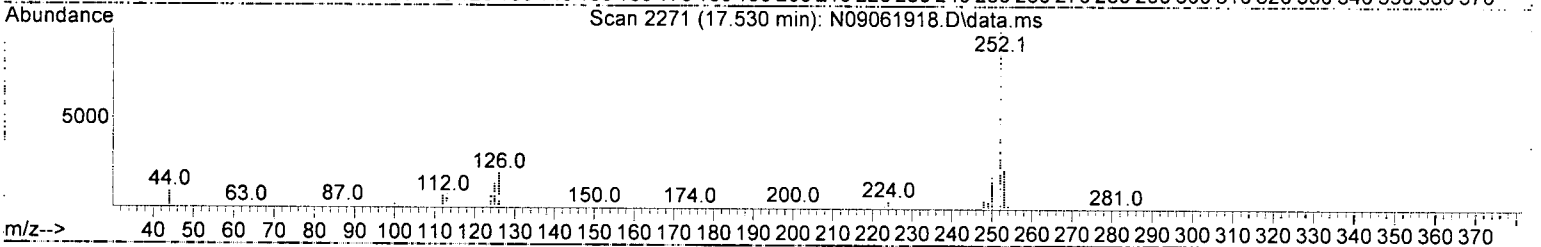
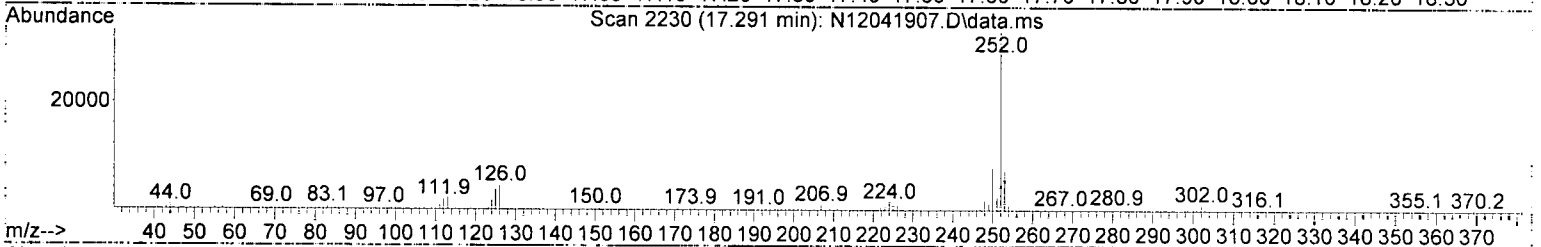
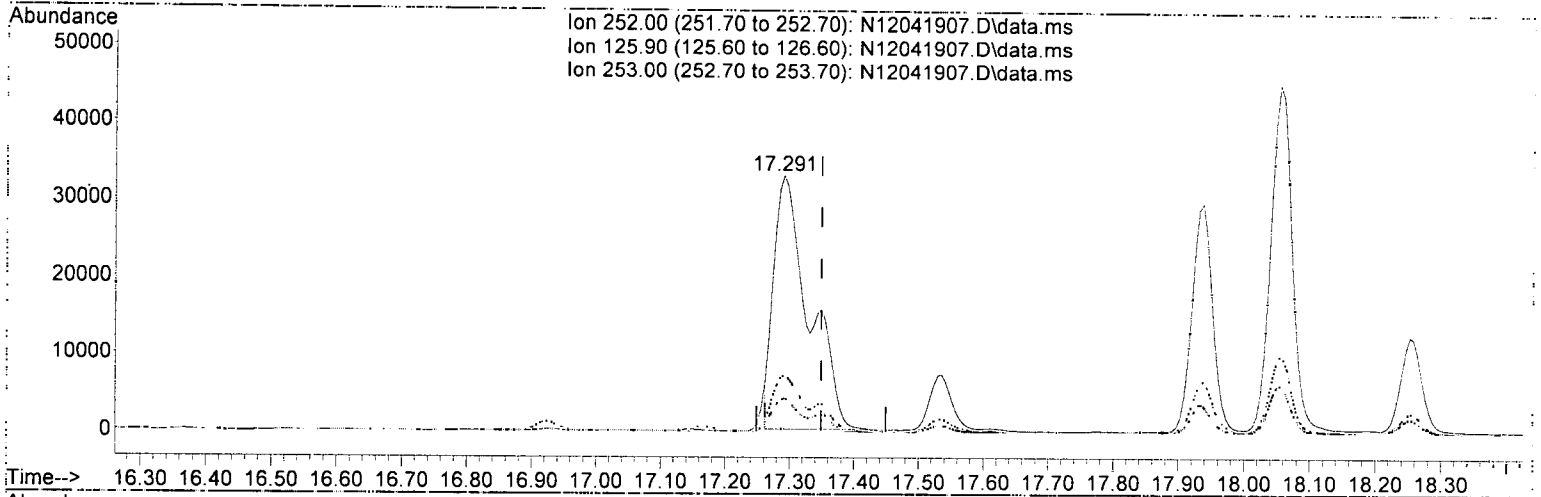
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.784	136	177180	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.538	162	114467	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	192148	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.726	240	160110	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	153458	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	128085	100.00	ng/ml	0.00	
<b>System Monitoring Compounds</b>							
2) Nitrobenzene-d5 (Surr)	7.079	82	377	0.64	ng/ml	-0.02	
10) 2-Fluorobiphenyl (Surr)	8.851	172	213	0.12	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.381	160	2728	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.797	244	326	0.19	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
<b>Target Compounds</b>							
3) Decalin	0.000		0	N.D.			Qvalue
4) Naphthalene	7.807	128	43962	22.50	ng/ml	100	
5) 2-Methylnaphthalene	8.489	142	82473	49.80	ng/ml	97	
6) 1-Methylnaphthalene	8.588	142	49008	29.60	ng/ml	97	
7) 1,1'-Biphenyl	8.956	154	3488	1.57	ng/ml	93	
8) 2,6-Dimethylnaphthalene	9.119	156	20735	12.75	ng/ml	99	
12) Acenaphthylene	9.393	152	17289	6.96	ng/ml	93	
13) Acenaphthene	9.568	153	83693	51.42	ng/ml	99	
14) Dibenzofuran	9.742	168	10372	5.09	ng/ml	93	
15) 1,6,7-Trimethylnaphtha...	9.952	170	7724	5.66	ng/ml	90	
16) Fluorene	10.092	166	53207	31.94	ng/ml	98	
18) Dibenzothiopene	10.937	184	66623	33.15	ng/ml	96	
19) Phenanthrene	11.071	178	533447	237.25	ng/ml	100	
20) Anthracene	11.118	178	95993	45.90	ng/ml	98	
21) Carbazole	11.287	167	9123	5.39	ng/ml	96	
22) 1-Methylphenanthrene	11.689	192	33540	21.47	ng/ml	93	
23) Fluoranthene	12.319	202	392884	173.43	ng/ml	96	
25) Pyrene	12.598	202	468753	187.39	ng/ml	99	
27) Benz(a)anthracene	14.708	228	79655	42.85	ng/ml#	58	
28) Chrysene	14.784	228	100527	57.15	ng/ml	99	
30) Benzo(b)fluoranthene	17.291	252	99396	56.13	ng/ml	92	
31) Benzo(k)fluoranthene	17.291	252	125160	71.79	ng/ml	90	MT
32) Benzo(b+k)fluoranthene	17.291	252	132258	73.02	ng/ml	90	
34) Benzo(e)pyrene	17.938	252	65742	36.72	ng/ml	98	
35) Benzo(a)pyrene	18.054	252	100846	66.54	ng/ml	97	
36) Perylene	18.252	252	28883	15.47	ng/ml	98	
38) Indeno(1,2,3-cd)Pyrene	20.590	276	69811	44.19	ng/ml	78	
39) Dibenz(a,h)anthracene	20.642	278	8201	5.53	ng/ml	89	
40) Benzo(g,h,i)perylene	21.126	276	86709	51.74	ng/ml	99	

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041907.D  
 Acq On : 04 Dec 2019 04:58 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-MS1@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast.Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041907.D\data.ms

(31) Benzo (k) fluoranthene (T)

17.291min (-0.058) 71.79 ng/ml *MI*

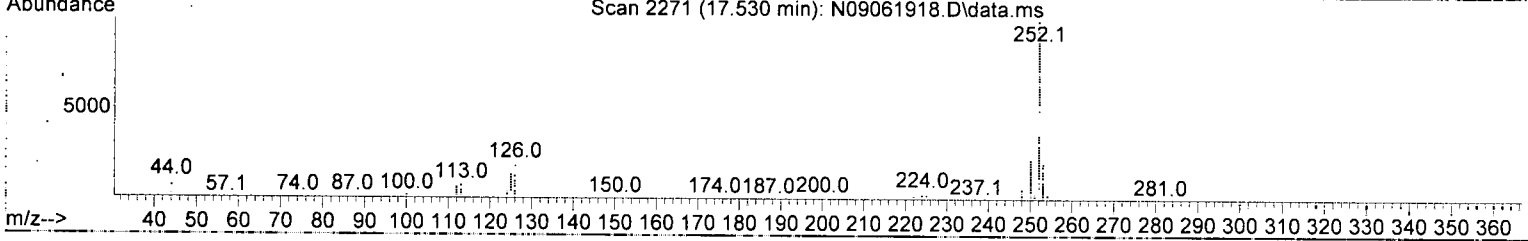
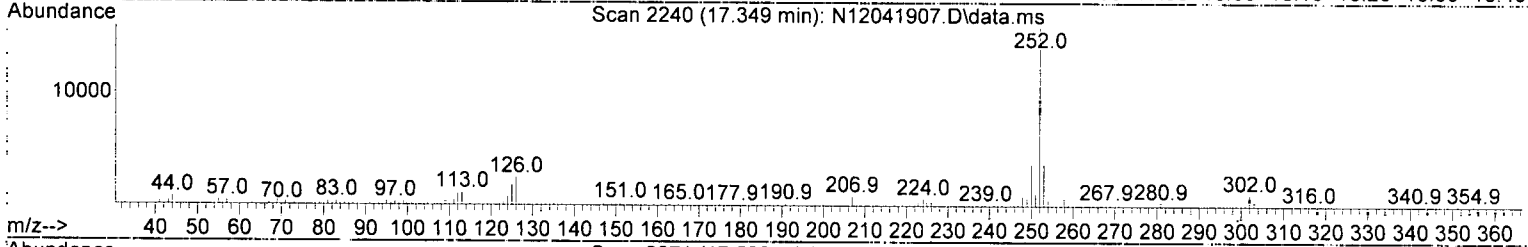
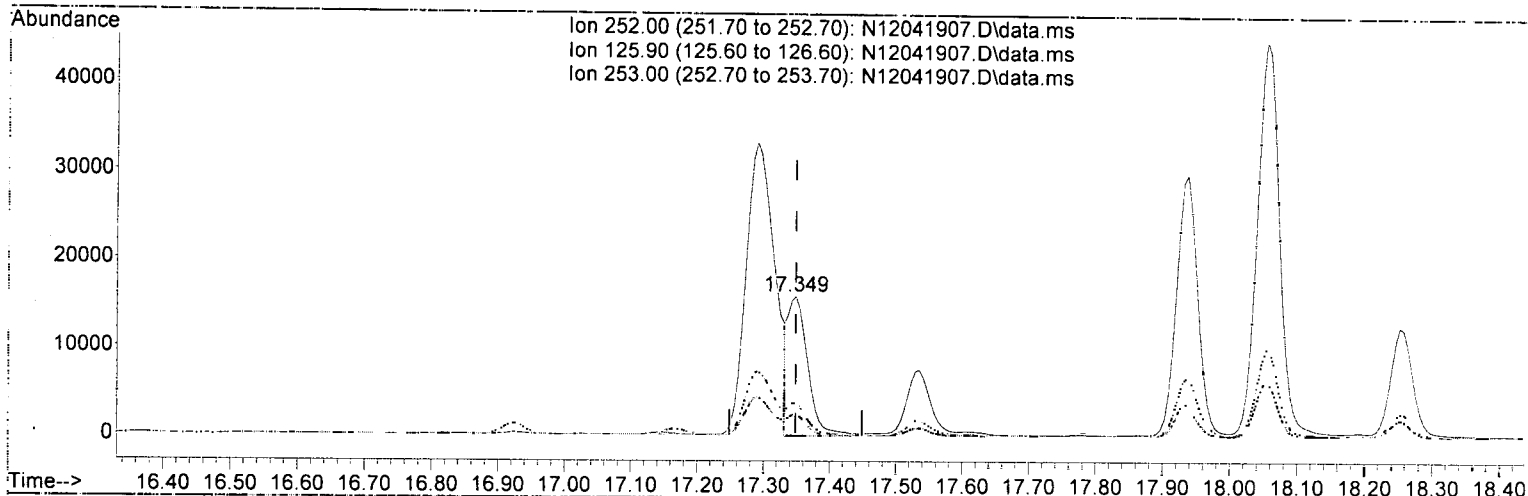
response 125160

Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.24
253.00	21.50	21.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041907.D  
 Acq On : 04 Dec 2019 04:58 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-MS1@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:15 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041907.D\data.ms

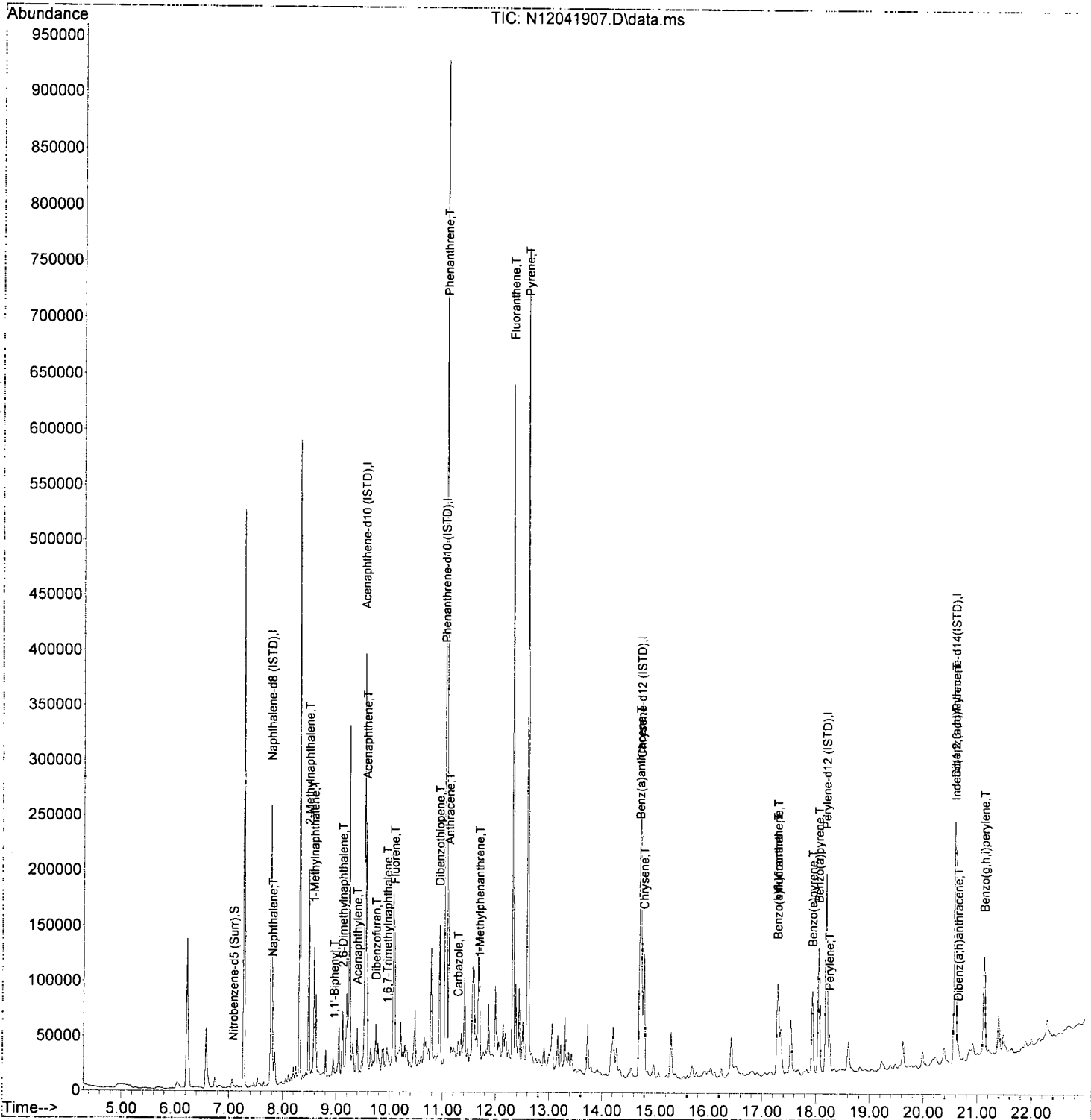
(31) Benzo(k)fluoranthene (T)

17.349min (-0.000)	18.99 ng/ml (m)	
response	33111	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	15.27
253.00	21.50	23.41
0.00	0.00	0.00

*Handwritten notes:*  
 AAO  
 DTH 12/4/19  
 DTH 12/4/19

Data Path : U:\data\2109-12\9L04042\  
Data File : N12041907.D  
Acq On : 04 Dec 2019 04:58 pm  
Operator : JK/ AMS/ DTH  
Sample : 9120480-MS1@1000  
Misc : 1000x, 8270D LL PAH ONLY  
ALS Vial : 7 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 17:29:15 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041908.D  
 Acq On : 04 Dec 2019 05:31 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-MSD1@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:03:24 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

DN 12/4/19

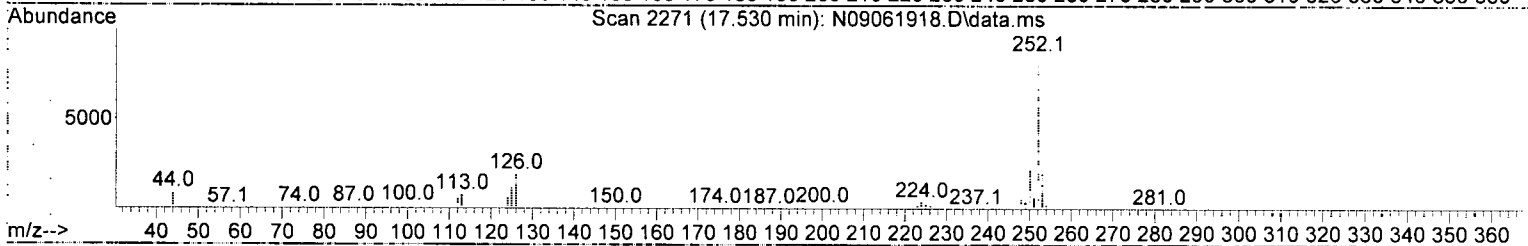
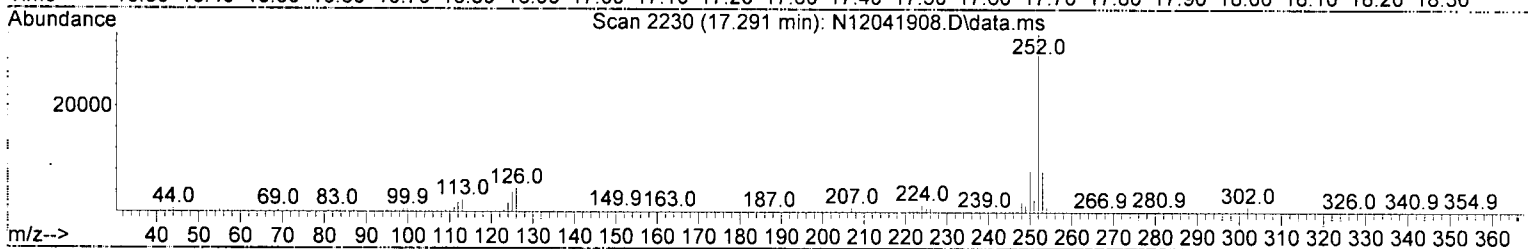
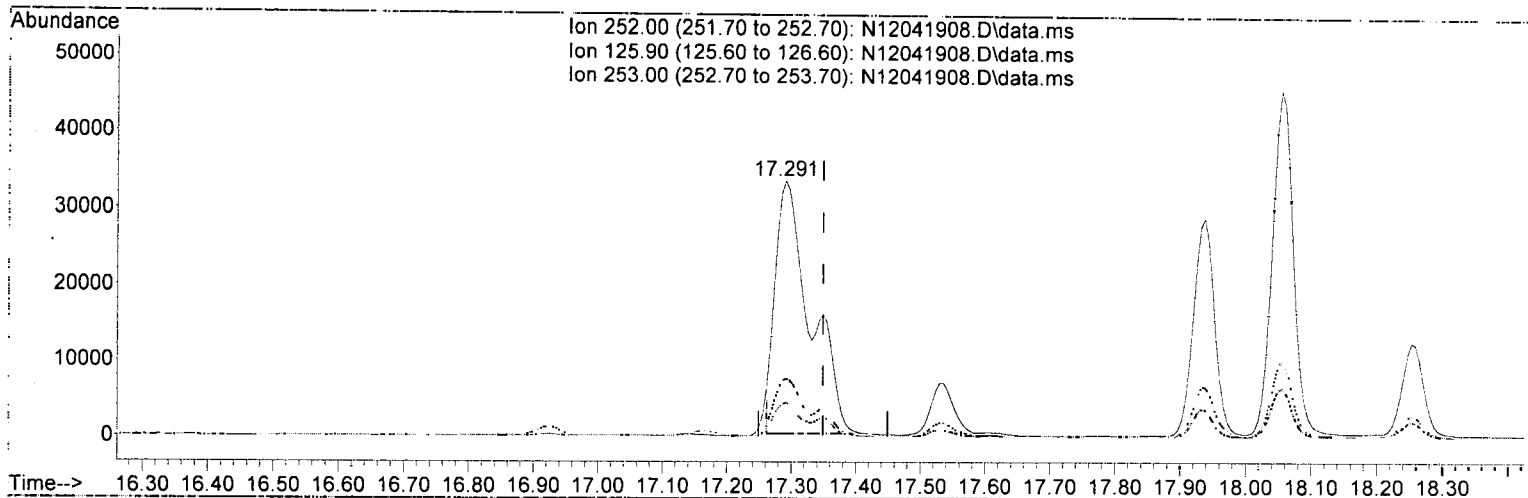
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.784	136	173743	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.538	162	114557	100.00	ng/ml	0.00
17) Phenanthrene-d10 (ISTD)	11.042	188	196250	100.00	ng/ml	0.00
24) Chrysene-d12 (ISTD)	14.726	240	157855	100.00	ng/ml	0.00
29) Perylene-d12 (ISTD)	18.194	264	151917	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.584	292	124987	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	139	0.24	ng/ml	-0.05
10) 2-Fluorobiphenyl (Surr)	8.851	172	248	0.15	ng/ml	0.00
11) Acenaphthylene d-8 (Surr)	9.381	160	2679	-1.00	ng/ml	0.00
26) Terphenyl-d14 (Surr)	12.797	244	302	0.18	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	7.807	128	50140	26.17	ng/ml	99
5) 2-Methylnaphthalene	8.489	142	94764	58.36	ng/ml	97
6) 1-Methylnaphthalene	8.588	142	56873	35.03	ng/ml	98
7) 1,1'-Biphenyl	8.956	154	3462	1.59	ng/ml	89
8) 2,6-Dimethylnaphthalene	9.119	156	23489	14.73	ng/ml	98
12) Acenaphthylene	9.393	152	16631	6.69	ng/ml	92
13) Acenaphthene	9.568	153	94884	58.25	ng/ml	100
14) Dibenzofuran	9.742	168	11221	5.50	ng/ml	93
15) 1,6,7-Trimethylnaphtha...	9.952	170	8469	6.20	ng/ml	94
16) Fluorene	10.092	166	58887	35.33	ng/ml	99
18) Dibenzothiopene	10.937	184	72592	35.37	ng/ml	96
19) Phenanthrene	11.071	178	576886	251.21	ng/ml	100
20) Anthracene	11.118	178	100140	46.88	ng/ml	99
21) Carbazole	11.287	167	10699	6.19	ng/ml	95
22) 1-Methylphenanthrene	11.689	192	19336	12.12	ng/ml	91
23) Fluoranthene	12.319	202	416758	180.12	ng/ml	95
25) Pyrene	12.598	202	502601	203.79	ng/ml	99
27) Benz(a)anthracene	14.708	228	80688	44.03	ng/ml#	56
28) Chrysene	14.784	228	101321	58.42	ng/ml	98
30) Benzo(b)fluoranthene	17.291	252	100620	57.40	ng/ml	91
31) Benzo(k)fluoranthene	<del>17.291</del>	<del>252</del>	<del>126468</del>	<del>73.28</del>	<del>ng/ml</del>	<del>89</del> <i>MI</i>
32) Benzo(b+k)fluoranthene	17.291	252	134102	74.79	ng/ml	89
34) Benzo(e)pyrene	17.938	252	65197	36.78	ng/ml	97
35) Benzo(a)pyrene	18.054	252	100716	67.13	ng/ml	97
36) Perylene	18.252	252	29766	16.11	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.590	276	69334	44.98	ng/ml	78
39) Dibenz(a,h)anthracene	20.648	278	7740	5.34	ng/ml	91
40) Benzo(g,h,i)perylene	21.126	276	86024	52.61	ng/ml	99

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041908.D  
 Acq On : 04 Dec 2019 05:31 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-MSD1@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:03:24 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041908.D\data.ms

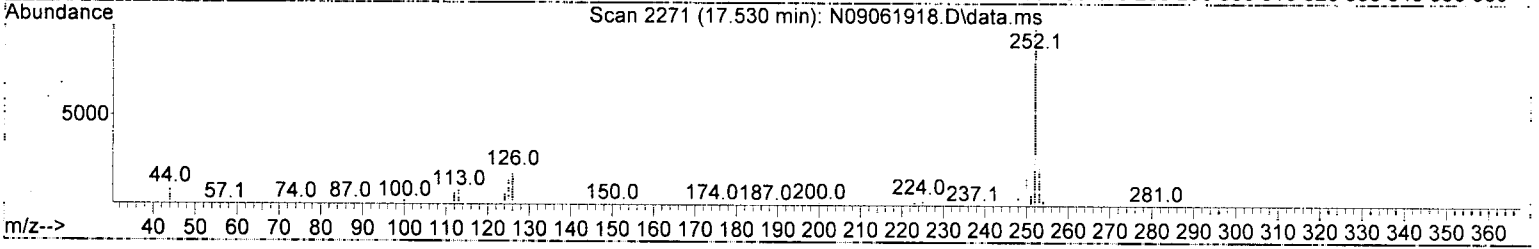
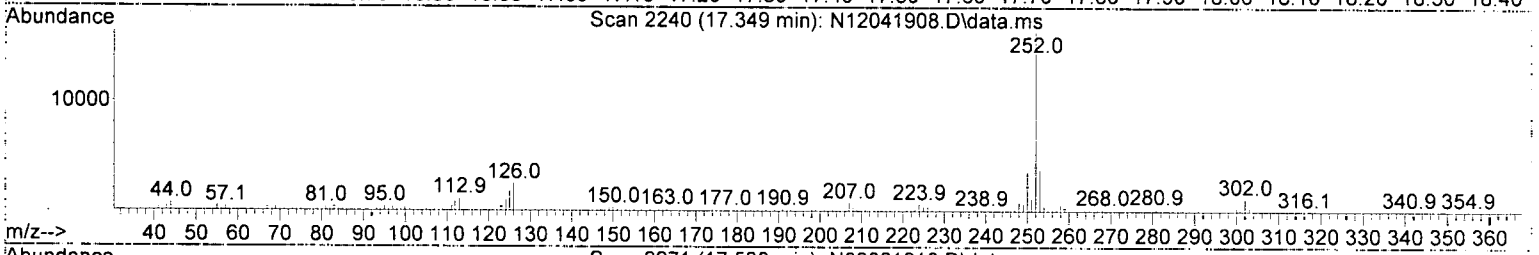
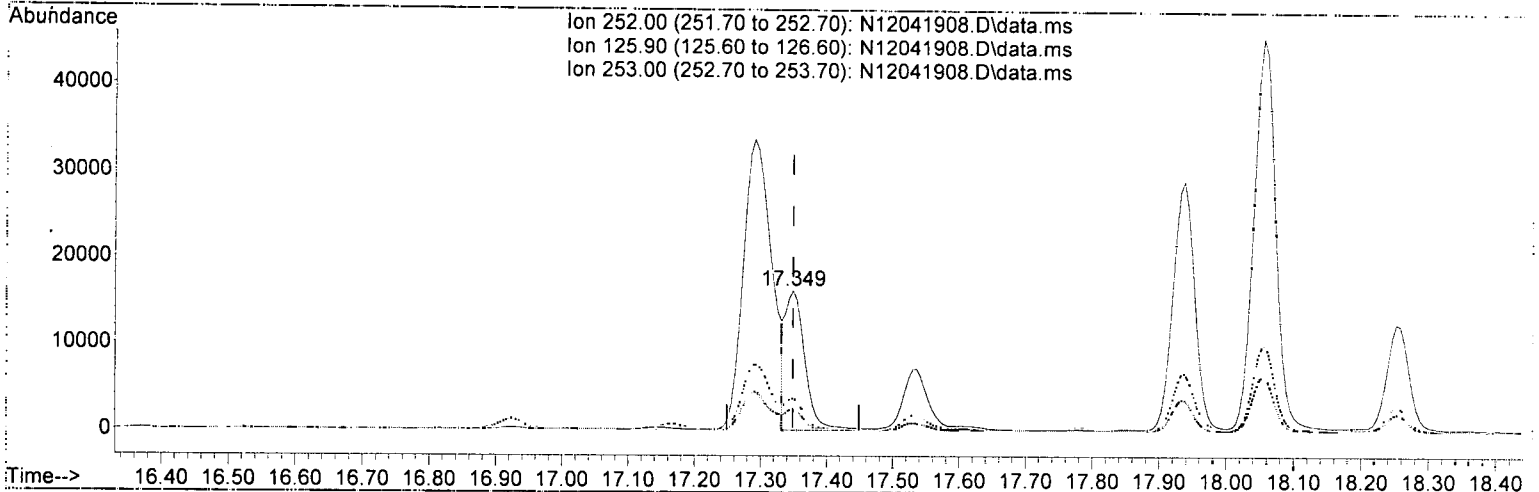
(31) Benzo(k)fluoranthene (T)		
17.291min (-0.058)	73.28	ng/ml
response	126468	
Ion	Exp%	Act%
252.00	100.00	100.00
125.90	22.10	13.22
253.00	21.50	22.70
0.00	0.00	0.00

*MI*

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041908.D  
 Acq On : 04 Dec 2019 05:31 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 9120480-MSD1@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 8 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:03:24 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041908.D\data.ms

(31) Benzo(k)fluoranthene (T)

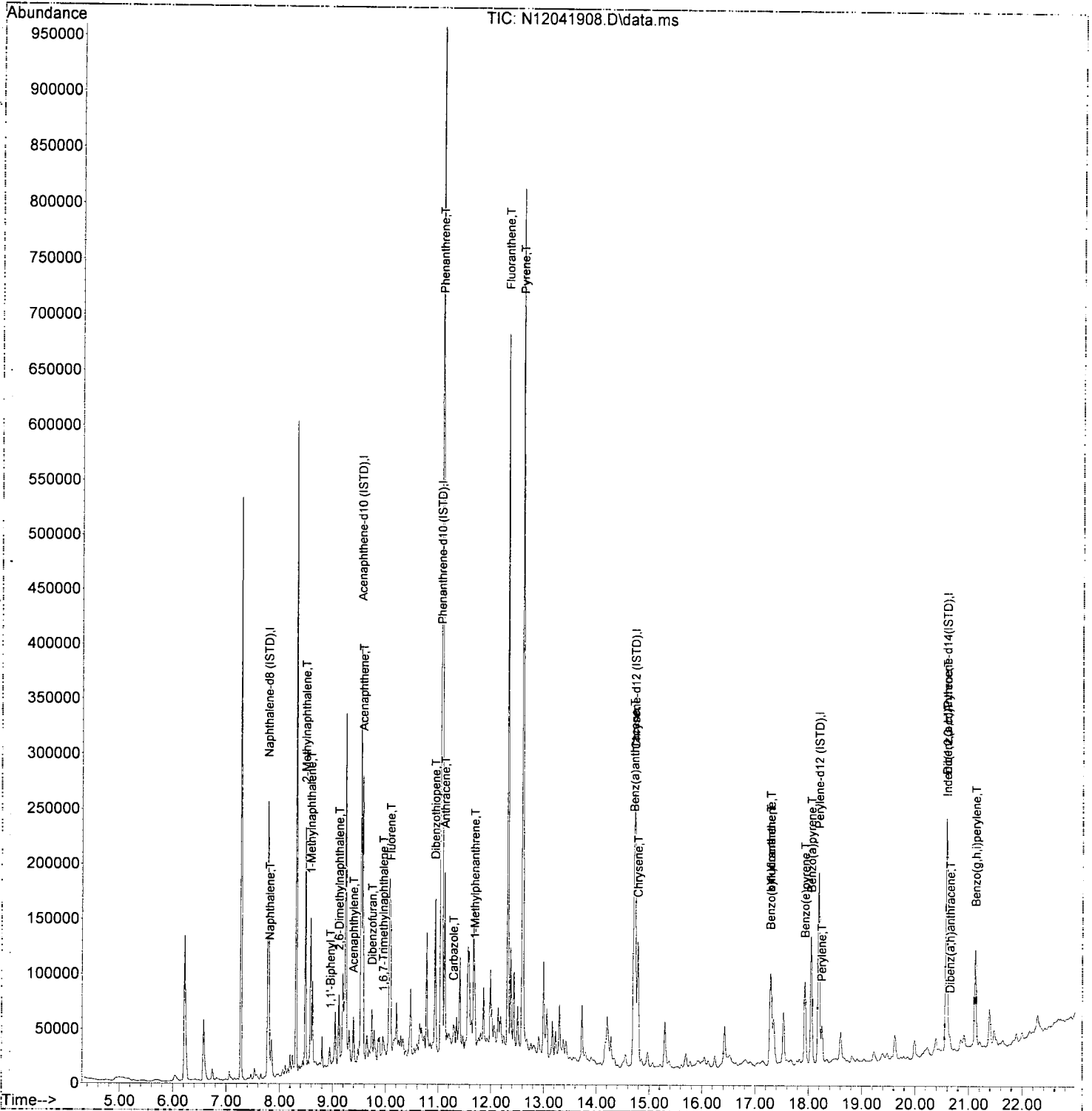
17.349min (-0.000) 19.55 ng/ml (m) *DTH 12/4/19* ✓

response	33739
Ion	Exp% Act%
252.00	100.00 100.00
125.90	22.10 15.35
253.00	21.50 22.97
0.00	0.00 0.00



Data Path : U:\data\2109-12\9L04042\  
Data File : N12041908.D  
Acq On : 04 Dec 2019 05:31 pm  
Operator : JK/ AMS/ DTH  
Sample : 9120480-MSD1@1000  
Misc : 1000x, 8270D LL PAH ONLY  
ALS Vial : 8 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:03:24 2019  
Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Fri Nov 08 10:03:37 2019  
Response via : Initial Calibration  
InstName : SV-GCMS14



Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

*JH 12/4/19 mos*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.784	136	171291	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.538	162	108014	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.042	188	165546	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.726	240	122950	100.00	ng/ml	0.00	
29) Perylene-d12 (ISTD)	18.194	264	115700	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.584	292	96017	100.00	ng/ml	0.00	
<b>System Monitoring Compounds</b>							
2) Nitrobenzene-d5 (Surr)	7.073	82	66	0.12	ng/ml	-0.02	
10) 2-Fluorobiphenyl (Surr)	8.857	172	164	0.10	ng/ml	0.00	
11) Acenaphthylene d-8 (Surr)	9.381	160	3131	-1.00	ng/ml	0.00	
26) Terphenyl-d14 (Surr)	12.797	244	235	0.18	ng/ml	0.00	
33) Benzo(a)pyrene d-12 (S...	0.000	264	0	0.00	ng/ml		
<b>Target Compounds</b>							
3) Decalin	0.000		0	N.D.			
4) Naphthalene	7.807	128	11204	5.93	ng/ml	96	
5) 2-Methylnaphthalene	8.489	142	15215	9.50	ng/ml	99	
6) 1-Methylnaphthalene	8.588	142	12628	7.89	ng/ml	96	
7) 1,1'-Biphenyl	8.956	154	711	N.D.			
8) 2,6-Dimethylnaphthalene	9.119	156	5533	3.52	ng/ml	94	
12) Acenaphthylene	9.393	152	6679	2.85	ng/ml	93	
13) Acenaphthene	9.568	153	29685	19.33	ng/ml	99	
14) Dibenzofuran	9.748	168	2839	1.48	ng/ml	88	
15) 1,6,7-Trimethylnaphtha...	9.958	170	3664	2.84	ng/ml	98	
16) Fluorene	10.092	166	16801	10.69	ng/ml	100	
18) Dibenzothiopene	10.937	184	18652	10.77	ng/ml	96	
19) Phenanthrene	11.066	178	141168	72.87	ng/ml	99	
20) Anthracene	11.118	178	22812	12.66	ng/ml	97	
21) Carbazole	11.287	167	3652	2.50	ng/ml	86	
22) 1-Methylphenanthrene	11.689	192	7014	5.21	ng/ml	93	
23) Fluoranthene	12.319	202	126914	65.03	ng/ml	94	
25) Pyrene	12.598	202	159311	82.94	ng/ml	99	
27) Benz(a)anthracene	14.708	228	23634	16.56	ng/ml#	65	
28) Chrysene	14.784	228	29237	21.64	ng/ml	98	
30) Benzo(b)fluoranthene	17.291	252	27158	20.34	ng/ml	90	
31) Benzo(k)fluoranthene	17.291	252	34244	26.05	ng/ml	89	
32) Benzo(b+k)fluoranthene	17.291	252	36582	26.79	ng/ml	89	
34) Benzo(e)pyrene	17.932	252	17420	12.90	ng/ml	98	
35) Benzo(a)pyrene	18.054	252	26195	22.92	ng/ml	95	
36) Perylene	18.252	252	7867	5.59	ng/ml	99	
38) Indeno(1,2,3-cd)Pyrene	20.584	276	18583	15.69	ng/ml	87	
39) Dibenz(a,h)anthracene	20.648	278	1935	1.74	ng/ml	93	
40) Benzo(g,h,i)perylene	21.126	276	22762	18.12	ng/ml	99	

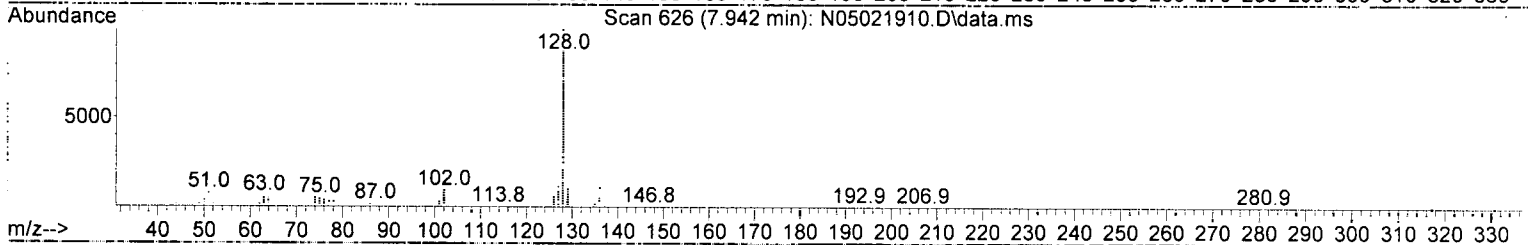
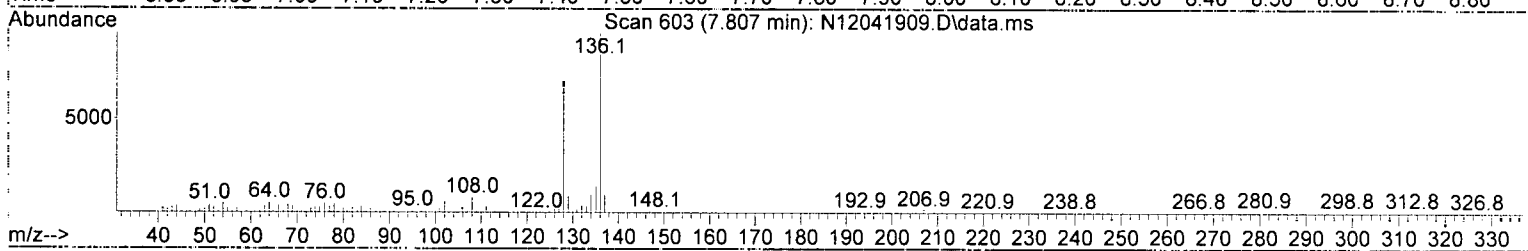
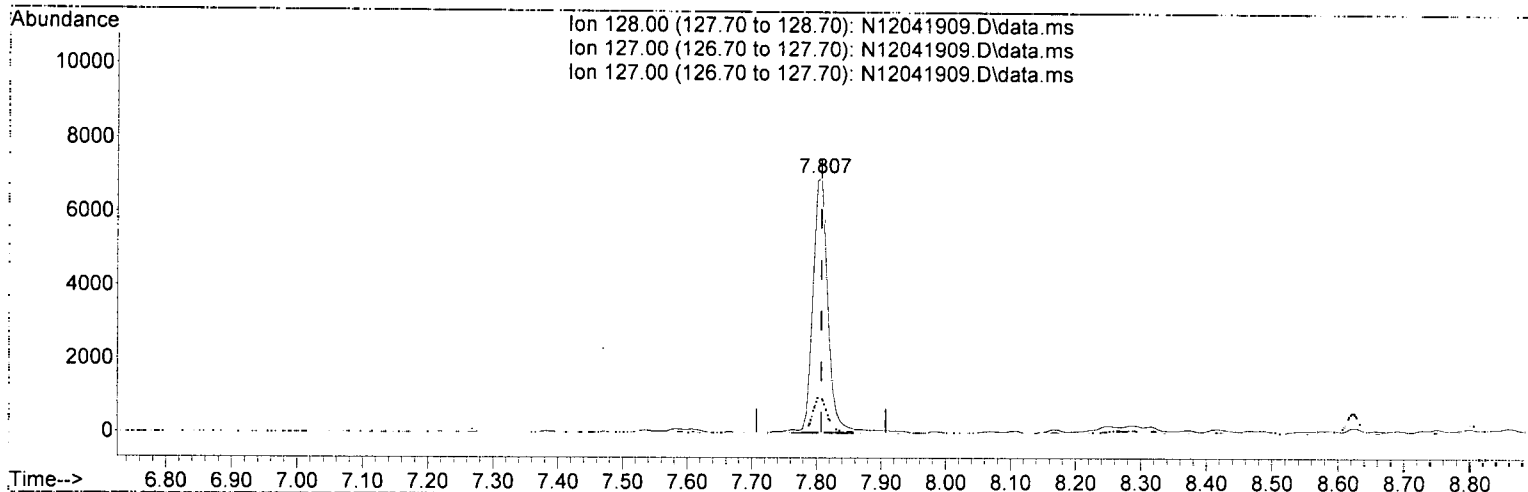
*MI HJ mos*

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

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(4) Naphthalene (T)

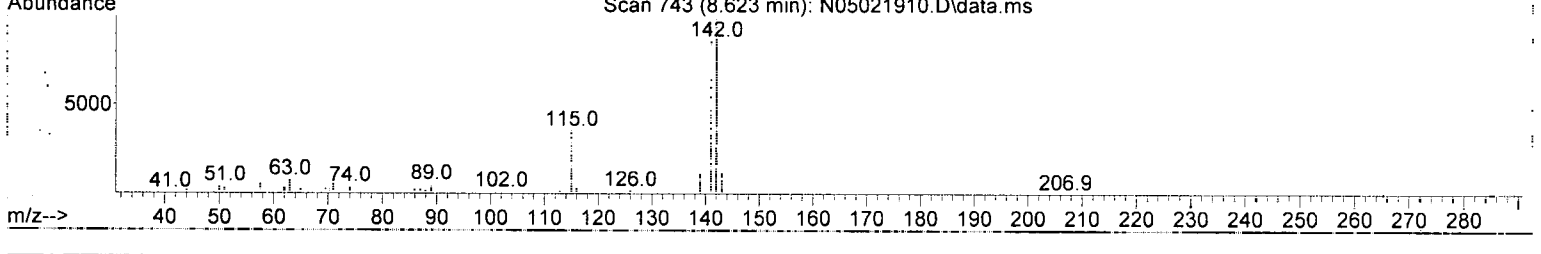
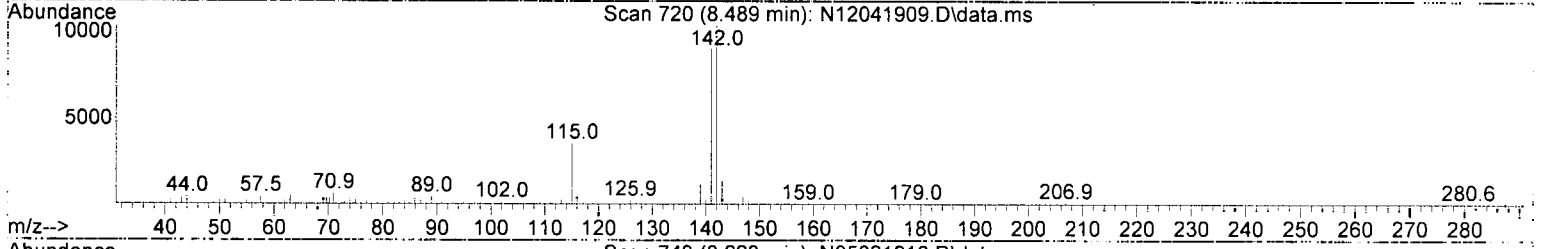
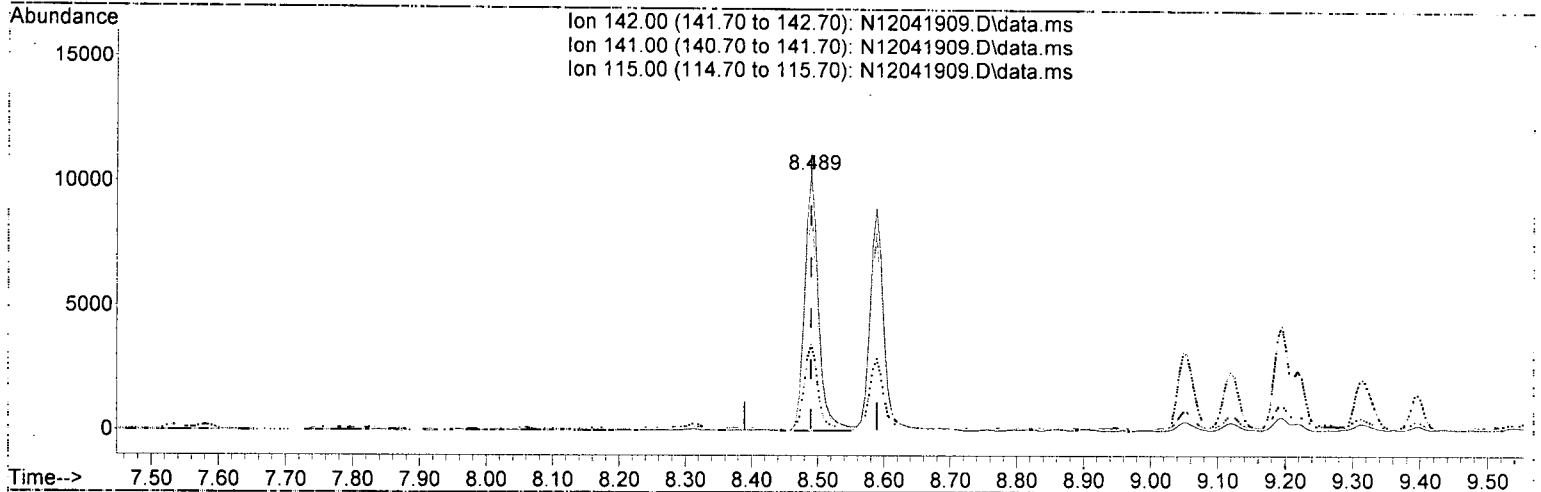
7.807min (-0.000) 5.93 ng/ml

response	11204	
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.99
127.00	12.60	13.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(5) 2-Methylnaphthalene (T)

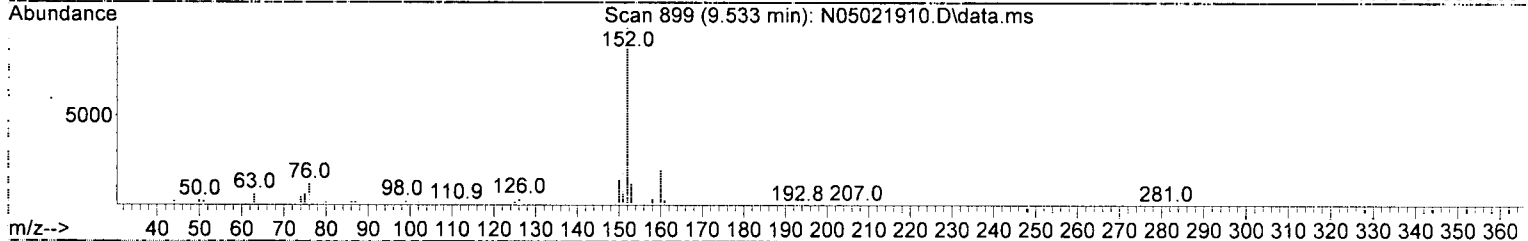
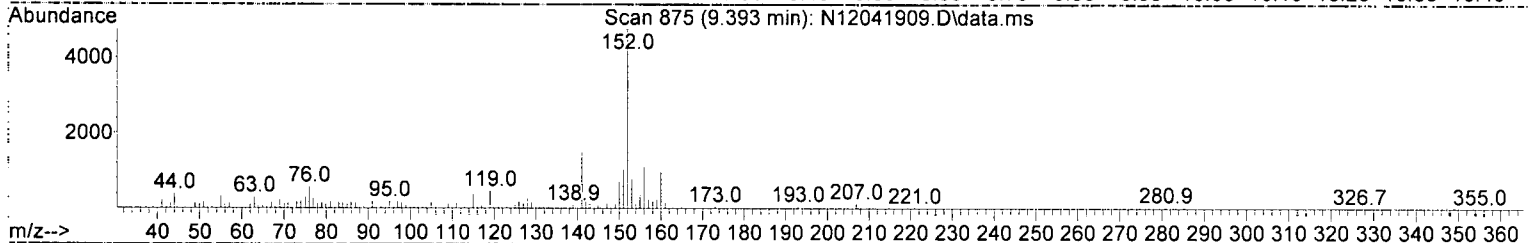
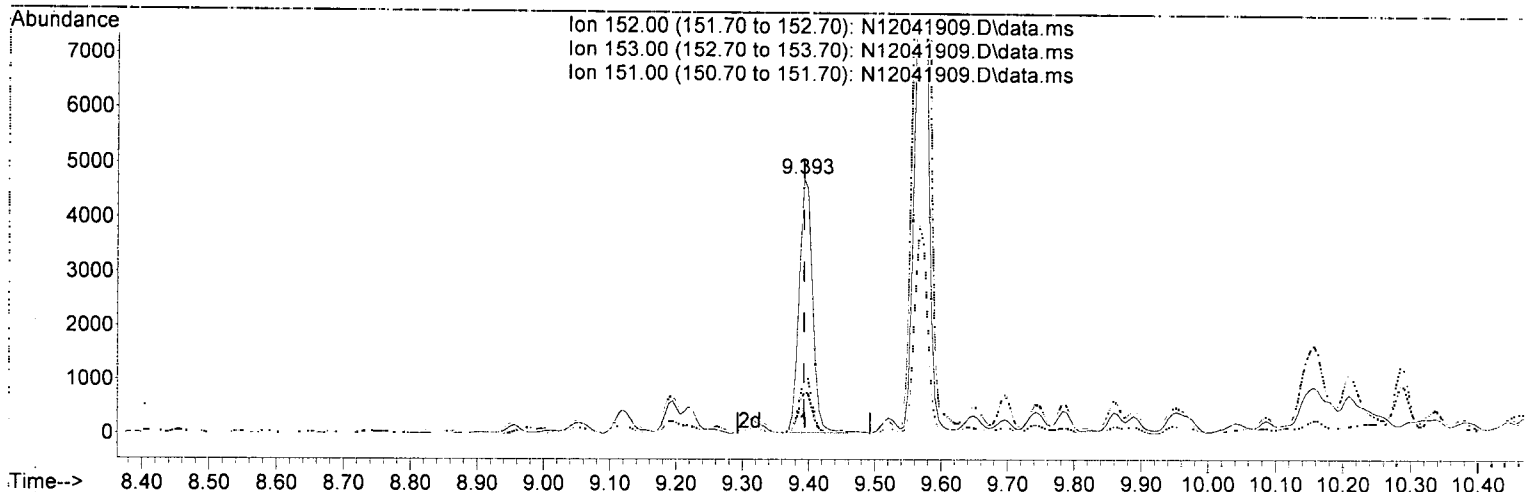
8.489min (-0.000) 9.50 ng/ml

response	15215
Ion	Exp% Act%
142.00	100.00 100.00
141.00	86.60 87.21
115.00	35.70 34.07
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(12) Acenaphthylene (T)

9.393min (-0.000) 2.85 ng/ml

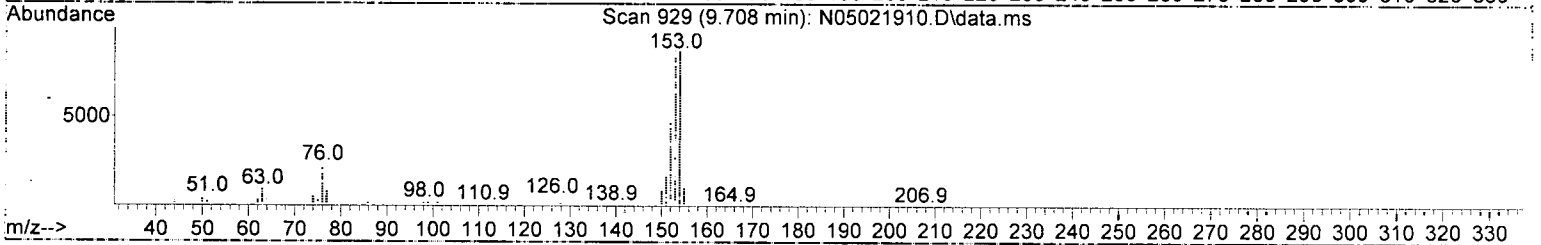
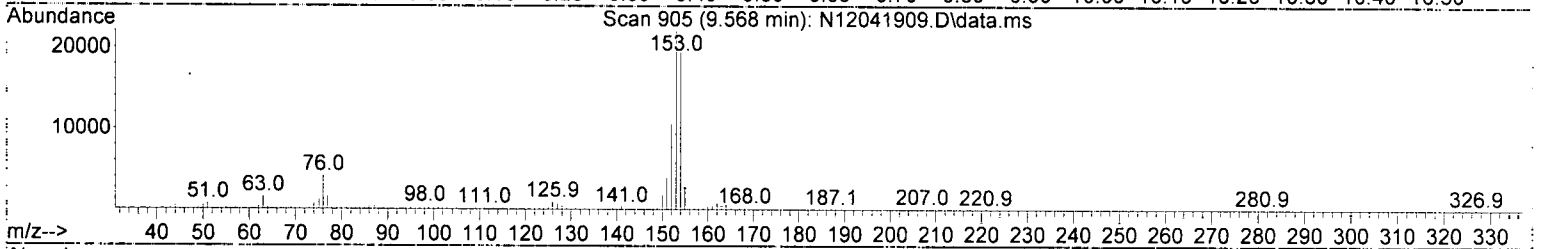
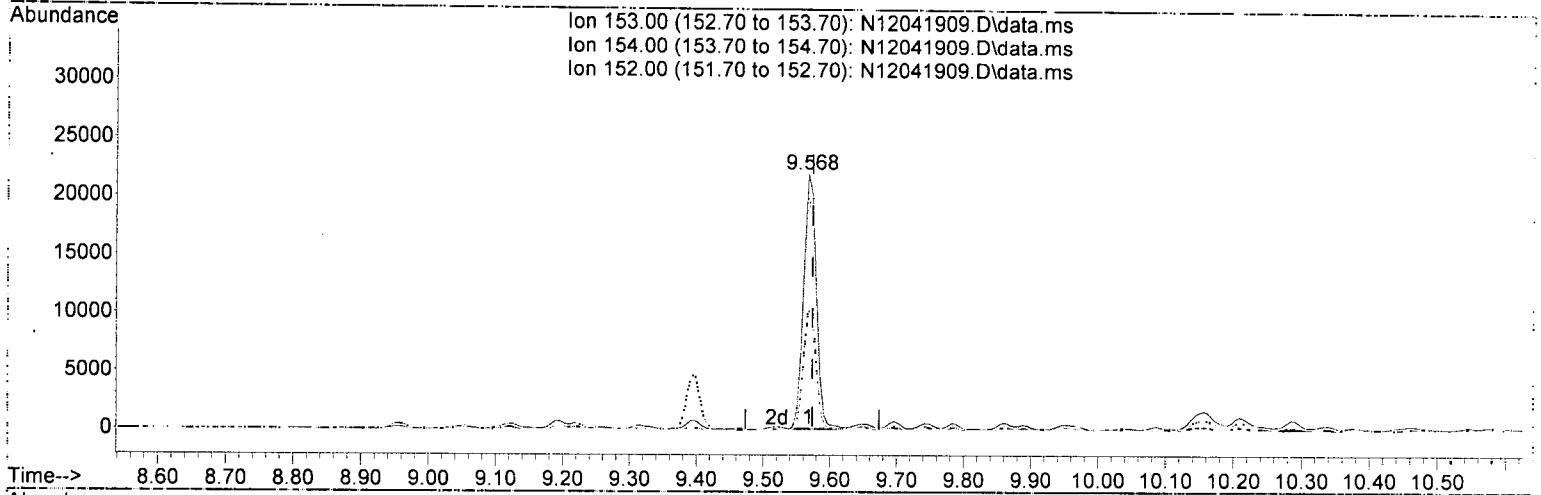
response 6679

Ion	Exp%	Act%
152.00	100.00	100.00
153.00	12.70	16.37
151.00	19.30	21.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(13) Acenaphthene (T)

9.568min (-0.006) 19.33 ng/ml

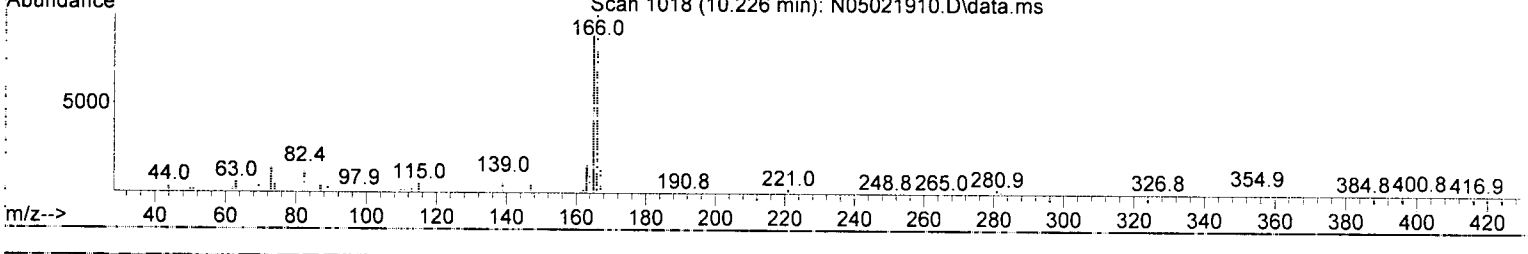
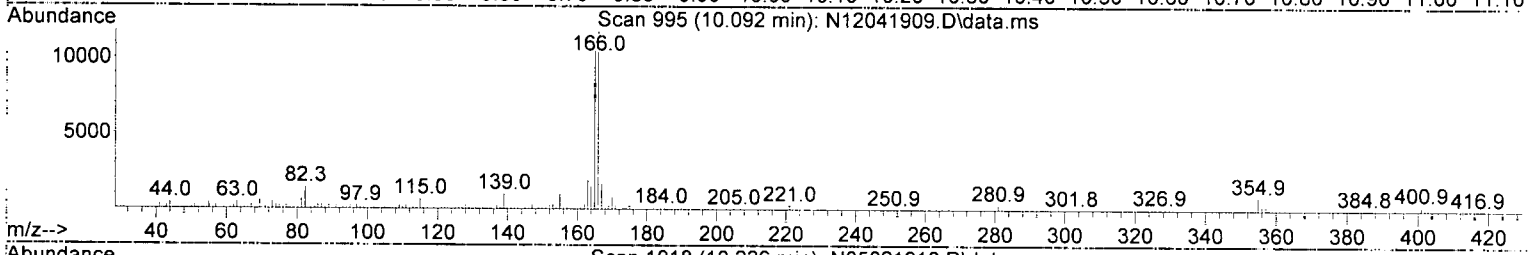
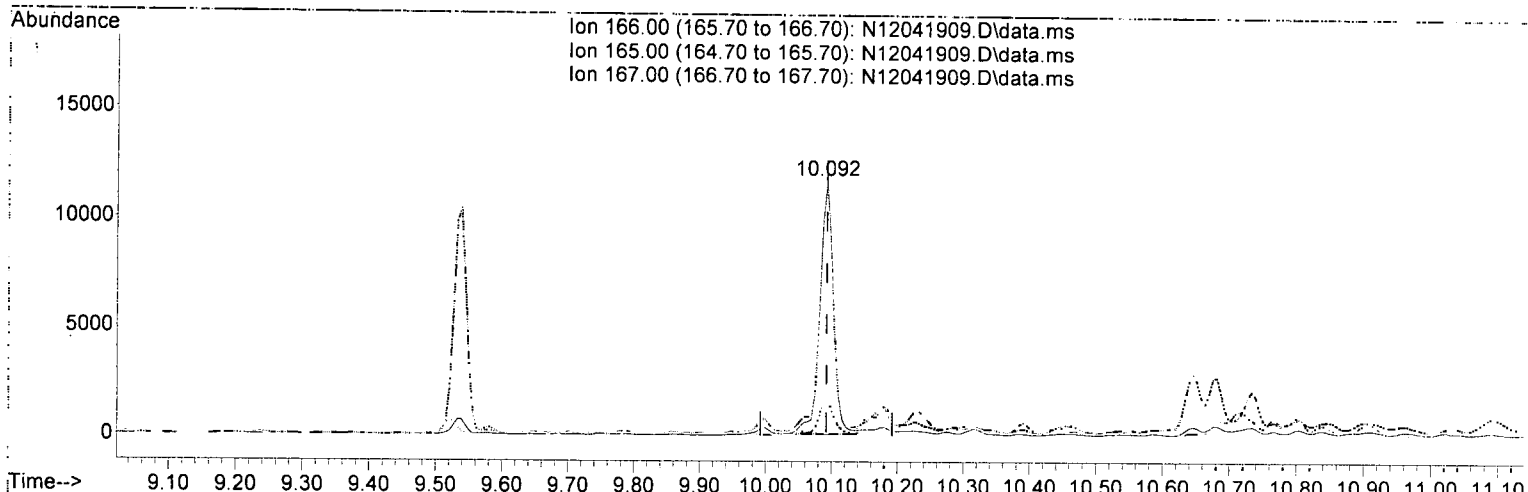
response 29685

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	90.87
152.00	46.80	47.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(16) Fluorene (T)

10.092min (-0.000) 10.69 ng/ml

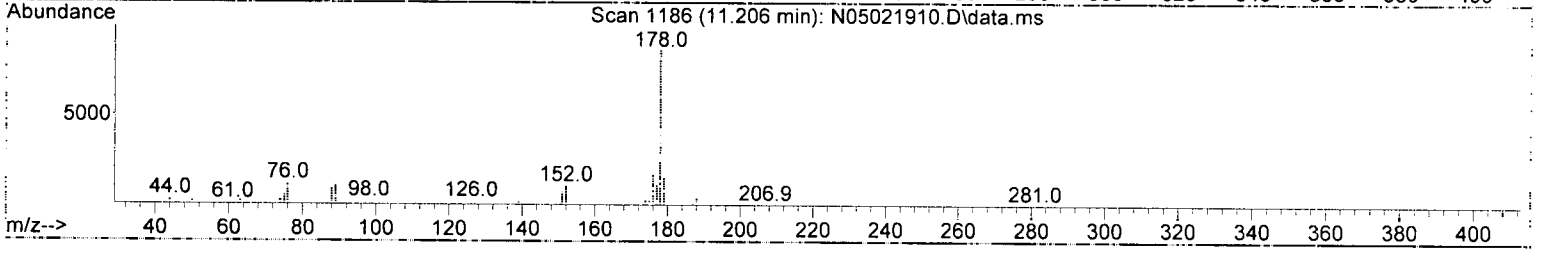
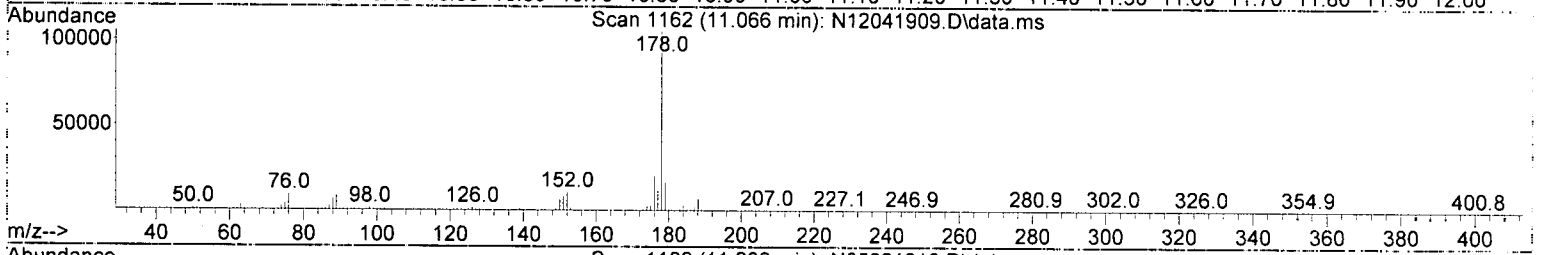
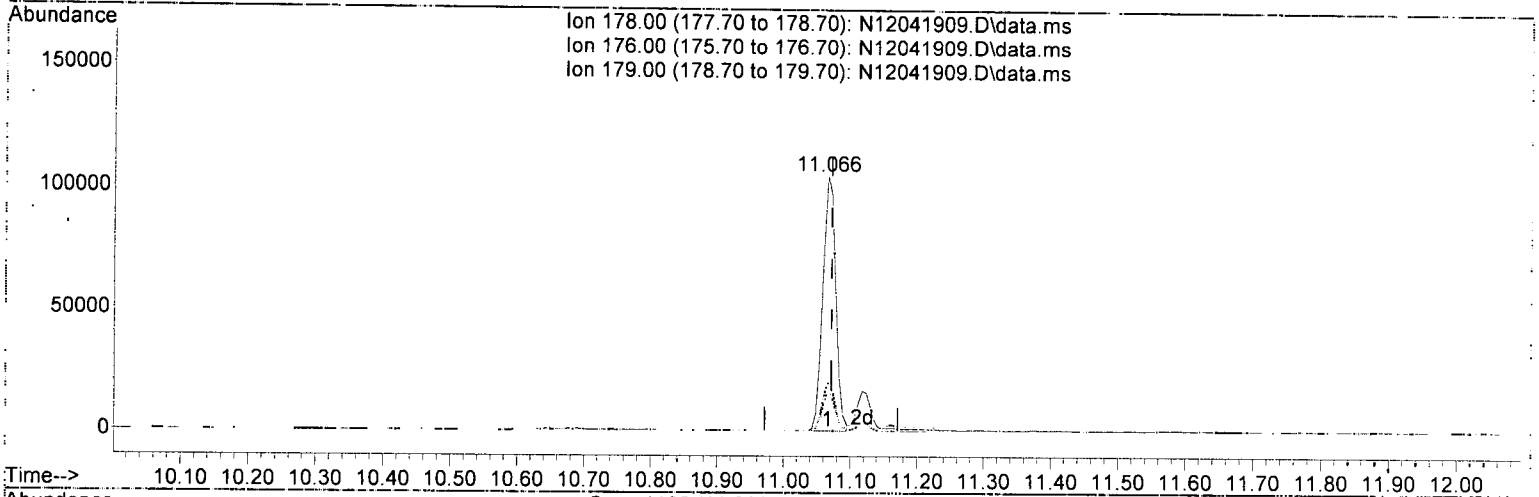
response 16801

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	95.77
167.00	13.60	14.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(19) Phenanthrene (T)

11.066min (-0.006) 72.87 ng/ml

response 141168

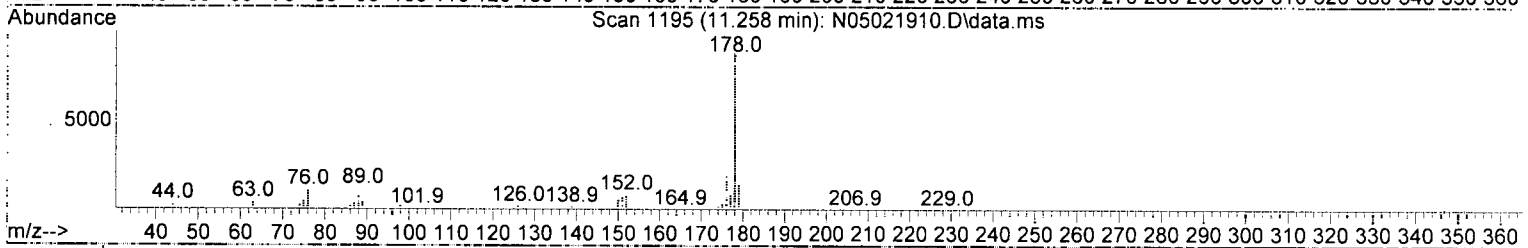
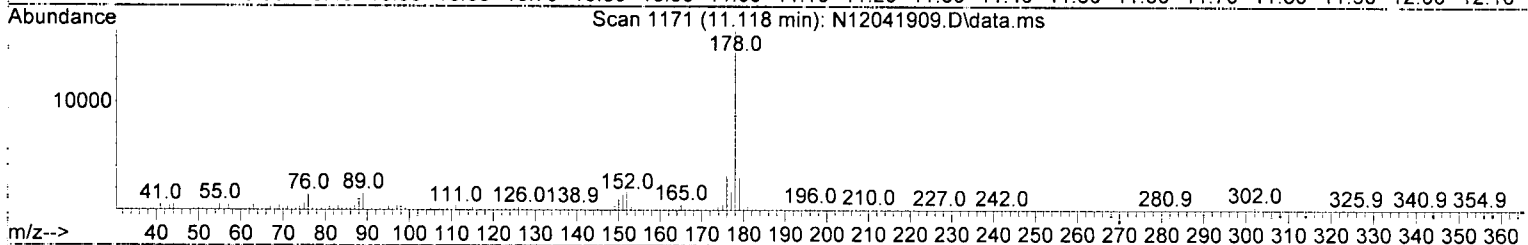
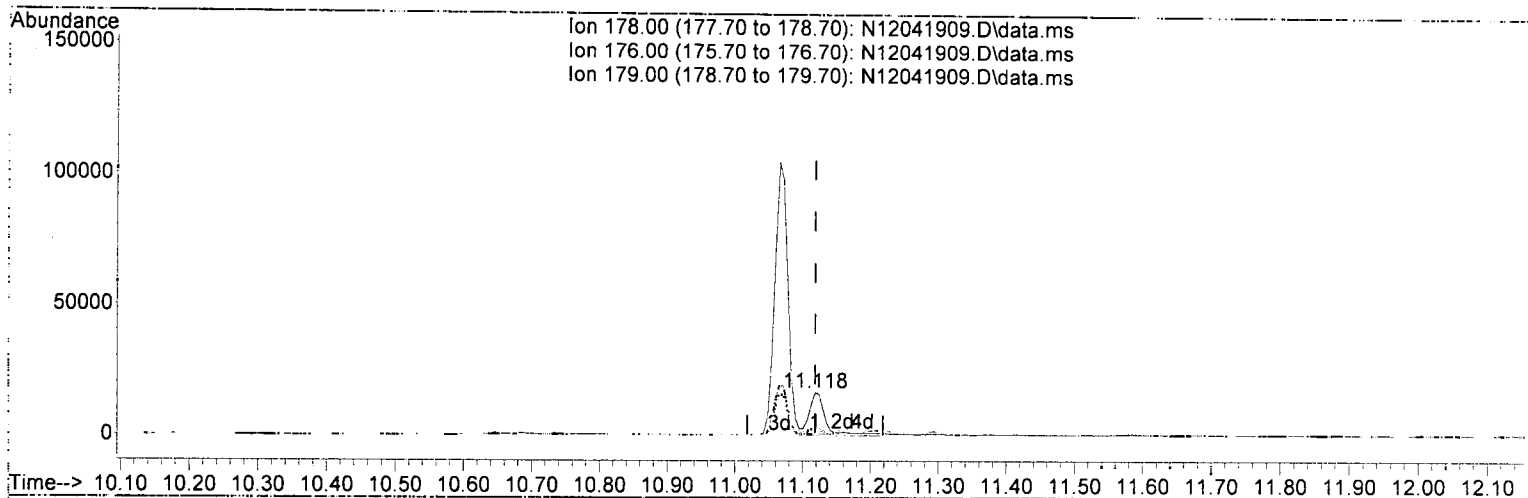
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	19.18
179.00	15.10	15.55
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(20) Anthracene (T)

11.118min (-0.000) 12.66 ng/ml

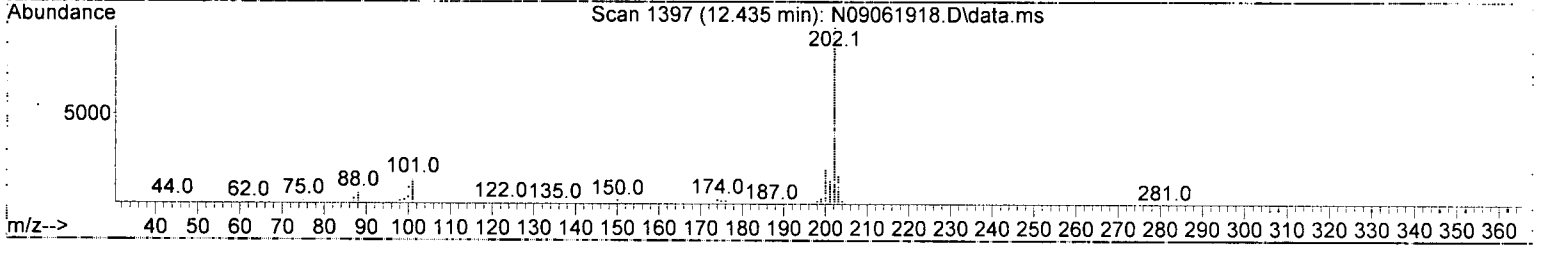
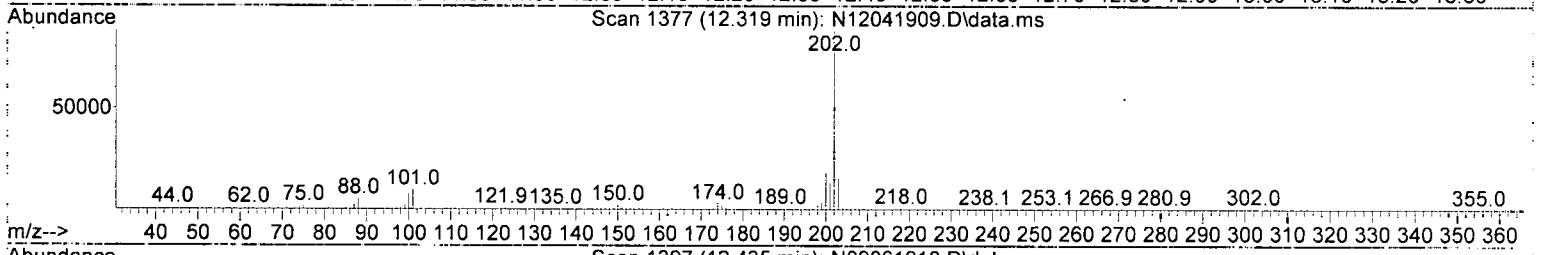
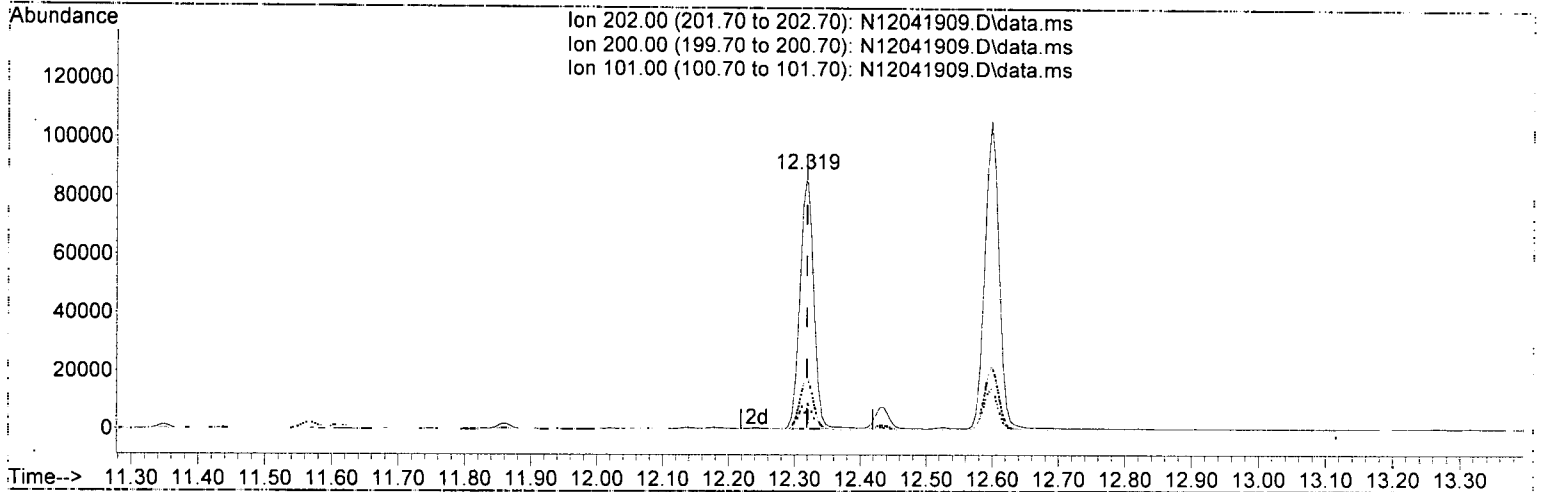
response 22812

Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	19.01
179.00	15.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(23) Fluoranthene (T)

12.319min (-0.000) 65.03 ng/ml

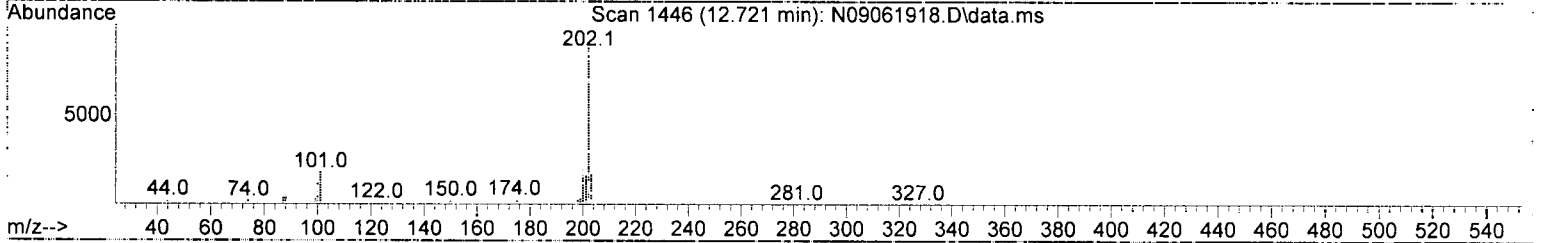
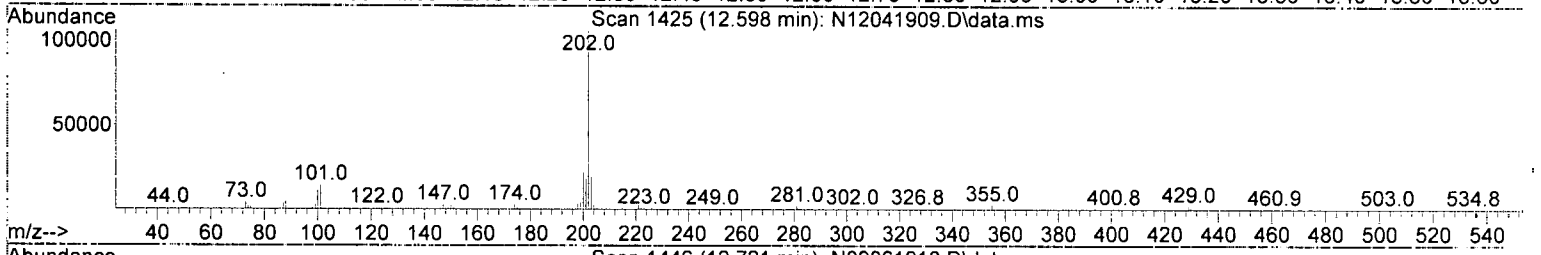
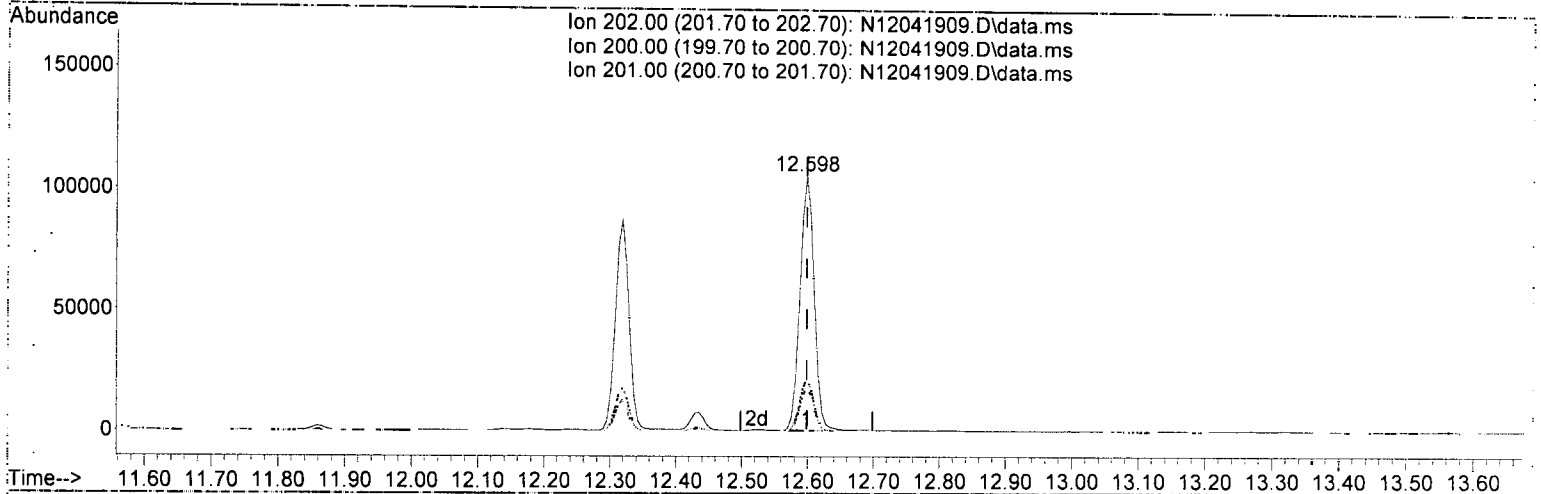
response 126914

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	20.37
101.00	15.30	10.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(25) Pyrene (T)

12.598min (-0.000) 82.94 ng/ml

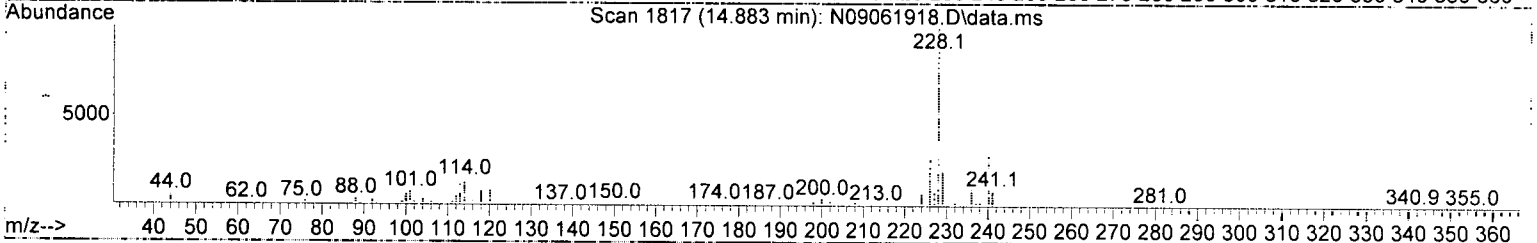
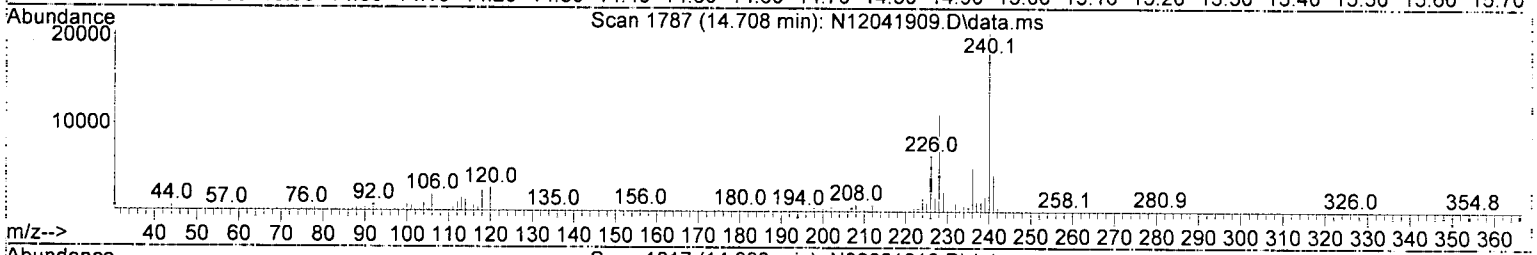
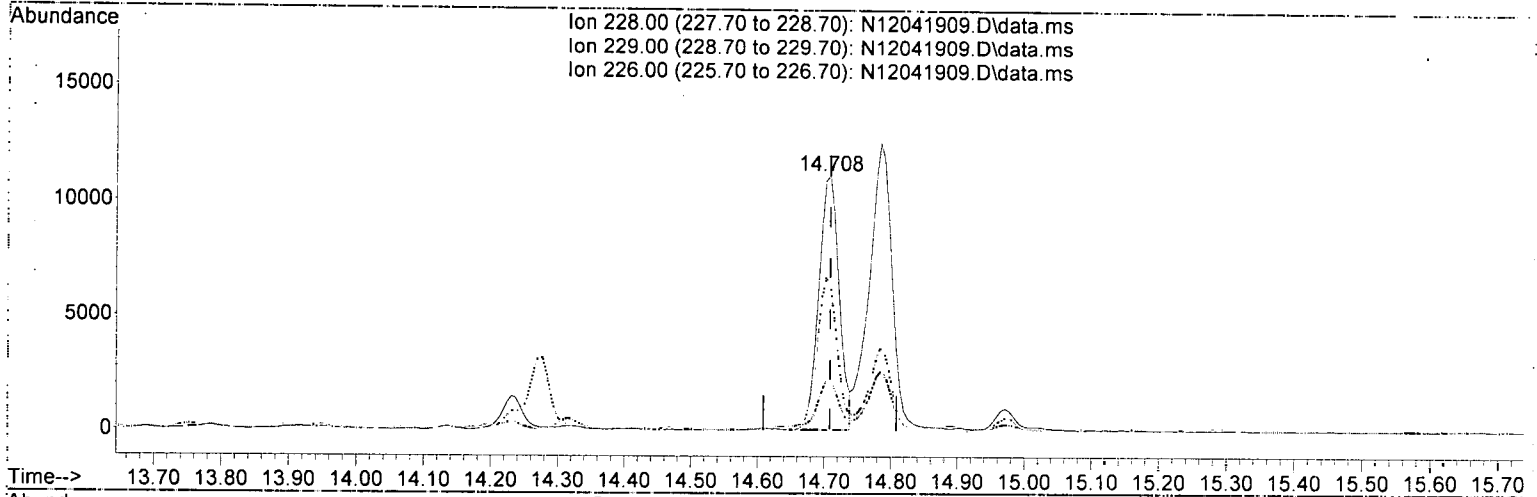
response 159311

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.47
201.00	16.80	17.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(27) Benz(a)anthracene (T)

14.708min (-0.000) 16.56 ng/ml

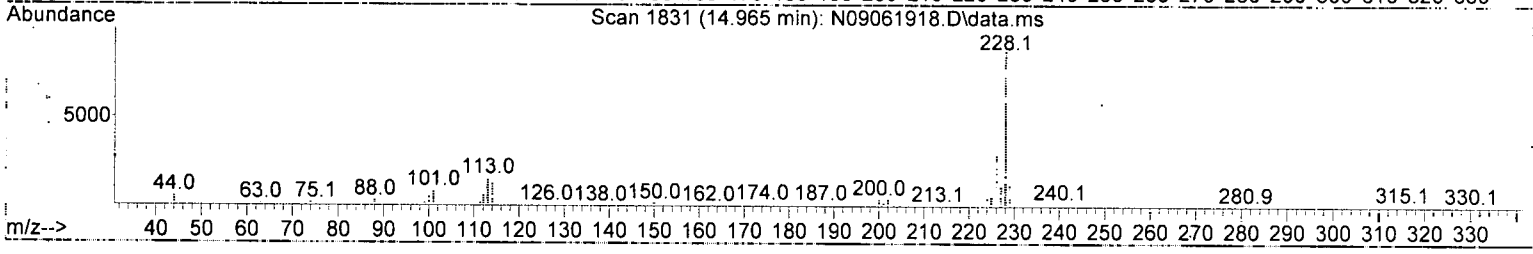
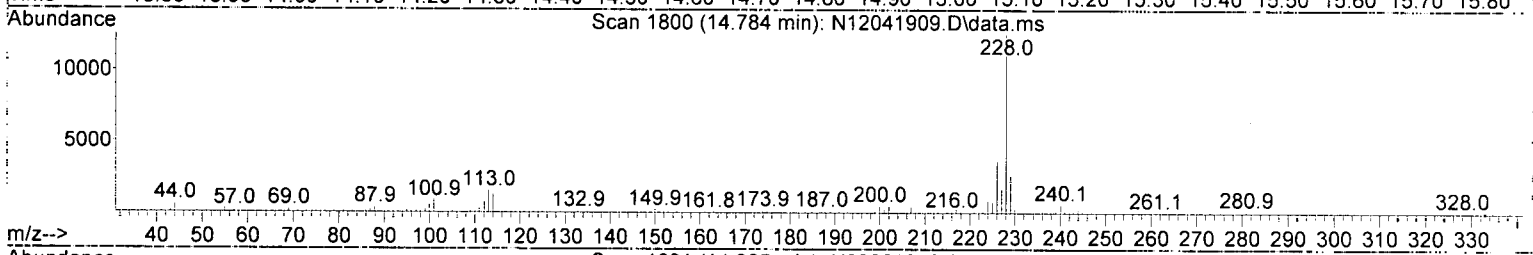
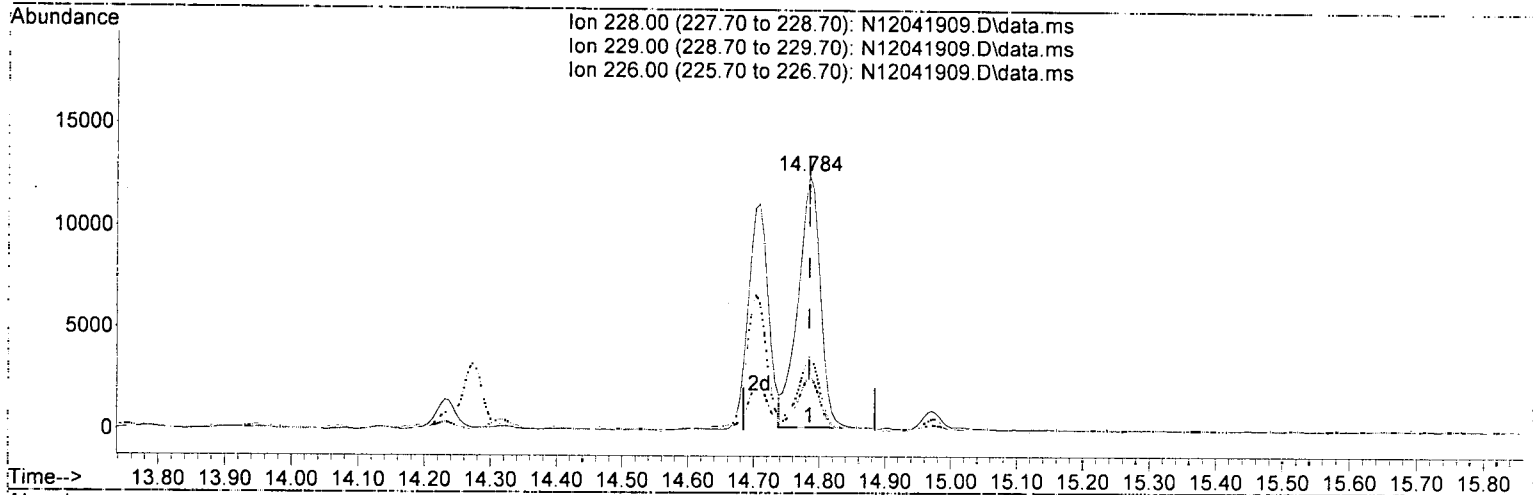
response 23634

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.20
226.00	26.20	57.06#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(28) Chrysene (T)

14.784min (-0.000) 21.64 ng/ml

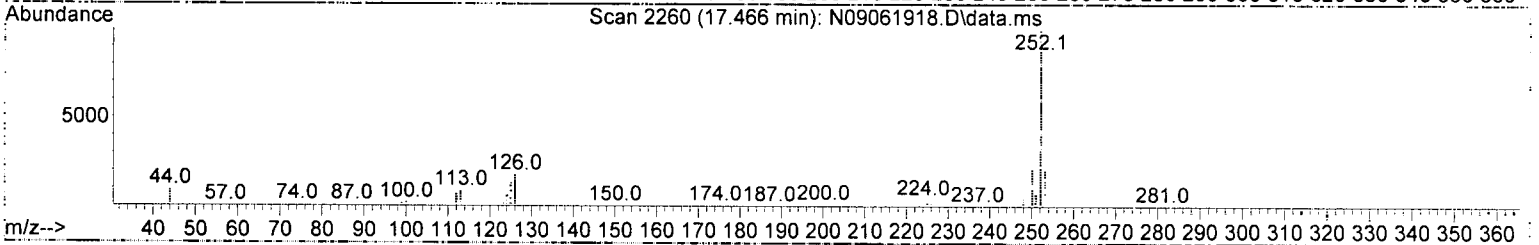
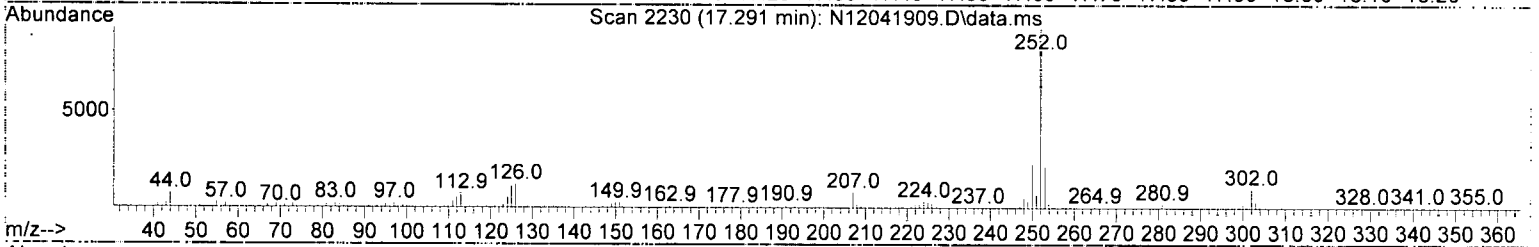
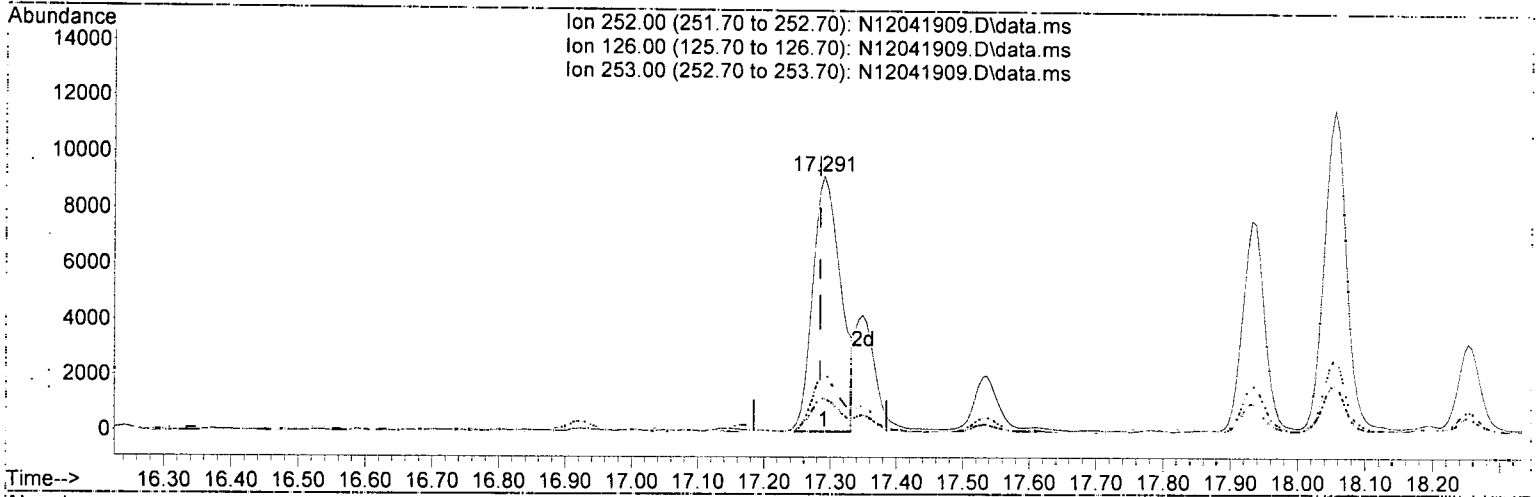
response 29237

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	20.87
226.00	28.60	28.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



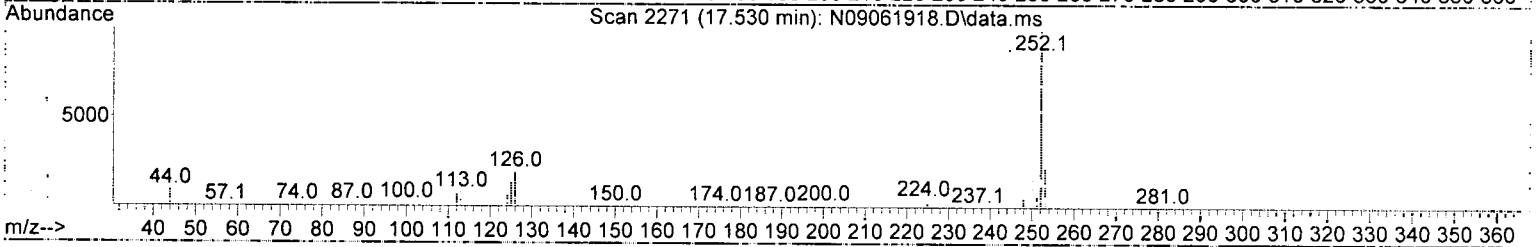
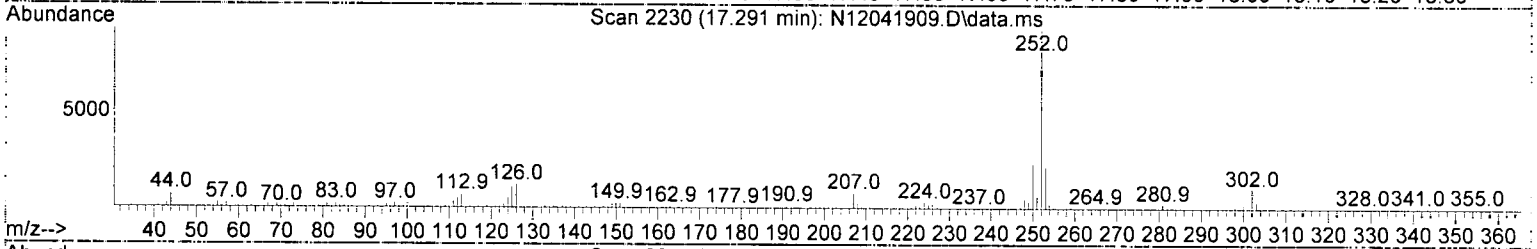
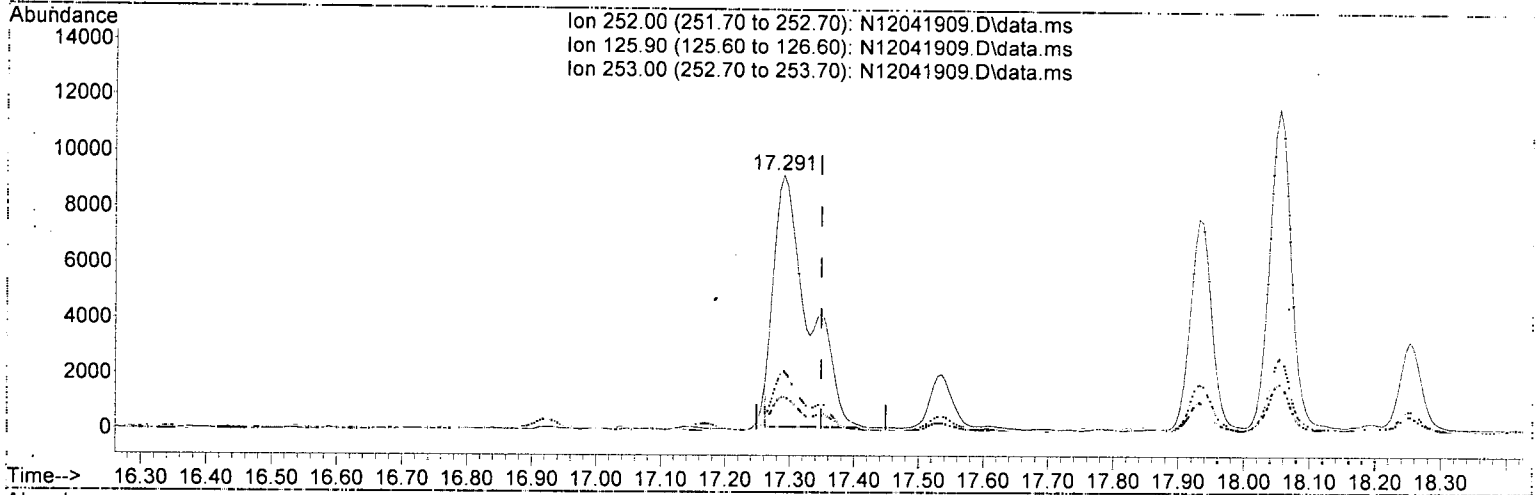
TIC: N12041909.D\data.ms

(30) Benzo(b)fluoranthene (T)		
Retention Time	Concentration	Response
17.291min (+ 0.006)	20.34 ng/ml	27158
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	13.09
253.00	21.10	23.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

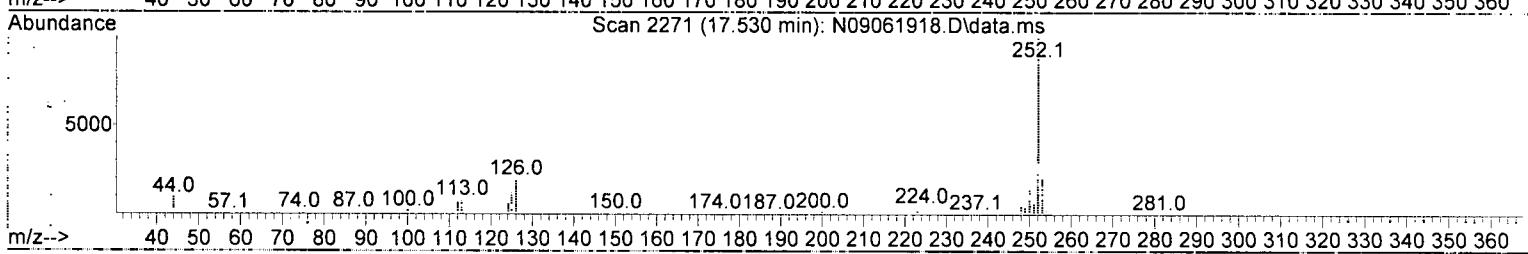
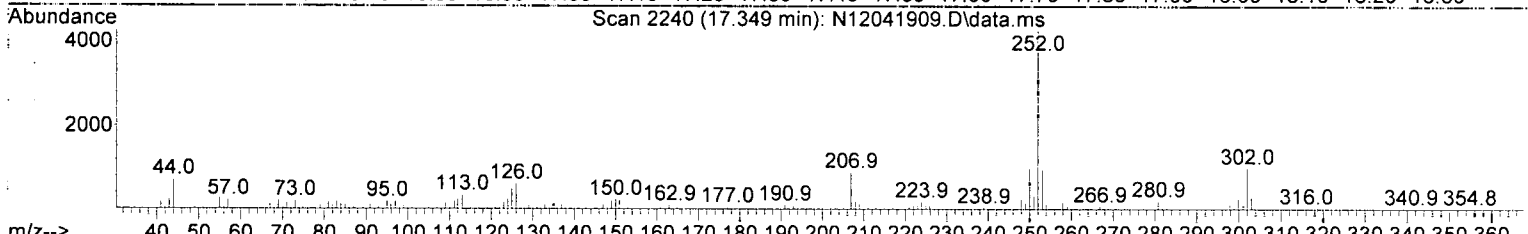
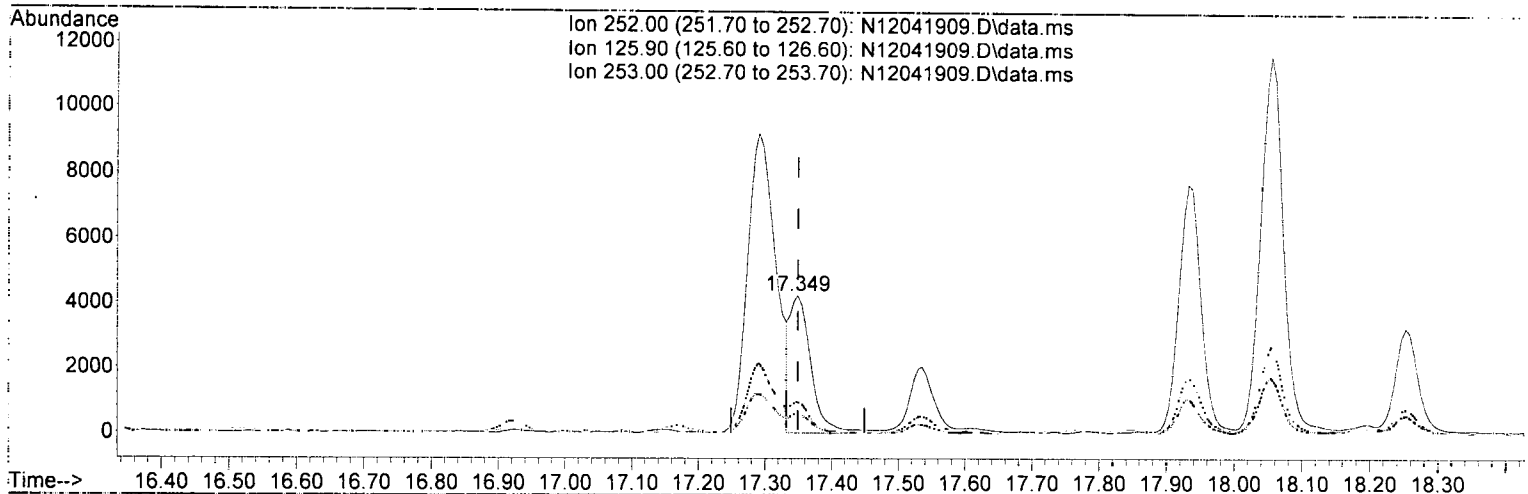
<del>(31) Benzo(k)fluoranthene (F)</del>		
<del>17.291min (-0.058)</del>	<del>26.05</del>	<del>ng/ml</del>
<del>response</del>	<del>34244</del>	
<del>Ion</del>	<del>Exp%</del>	<del>Act%</del>
<del>252.00</del>	<del>100.00</del>	<del>100.00</del>
<del>125.90</del>	<del>22.10</del>	<del>13.09</del>
<del>253.00</del>	<del>21.50</del>	<del>23.18</del>
<del>0.00</del>	<del>0.00</del>	<del>0.00</del>

*MI*

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(31) Benzo(k)fluoranthene (T)

17.349min (-0.000) 7.03 ng/ml

*MOS*  
*DTH 12/4/19*

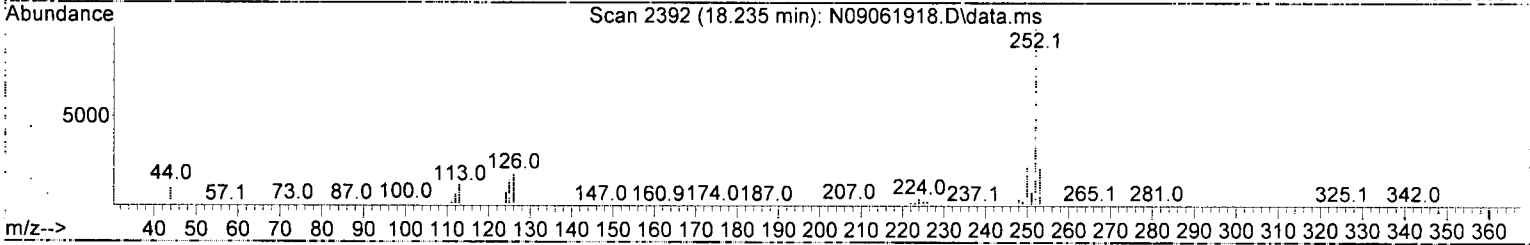
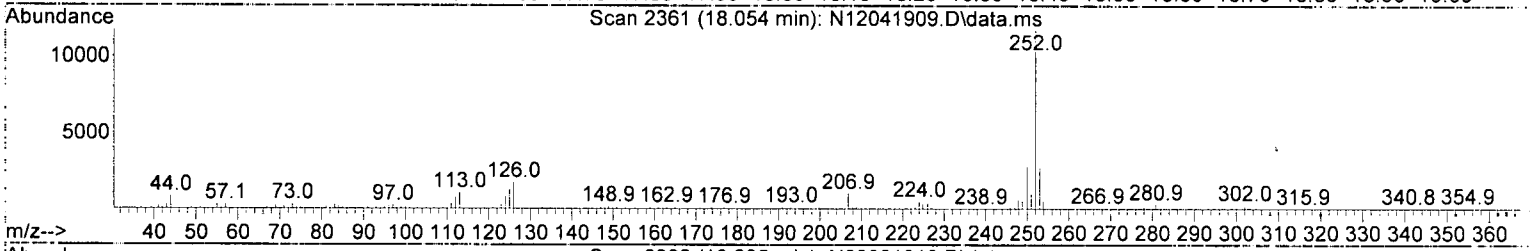
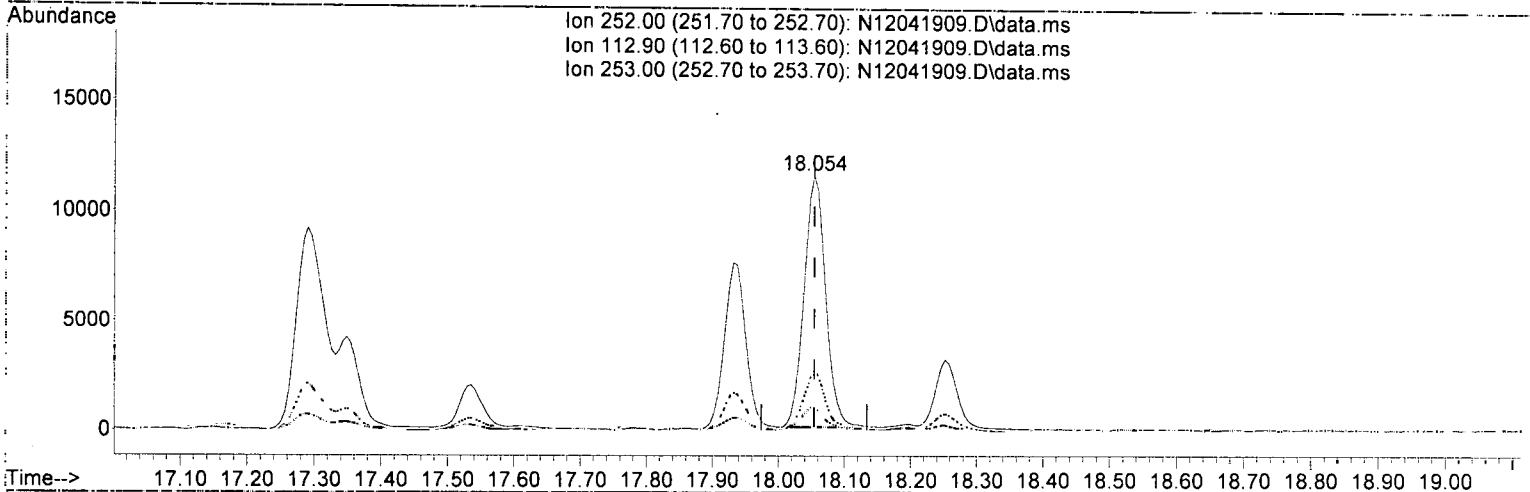
response	9244		
Ion	Exp%	Act%	
252.00	100.00	100.00	
125.90	22.10	14.47	
253.00	21.50	22.45	
0.00	0.00	0.00	



Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

(35) Benzo(a)pyrene (T)

18.054min (-0.000) 22.92 ng/ml

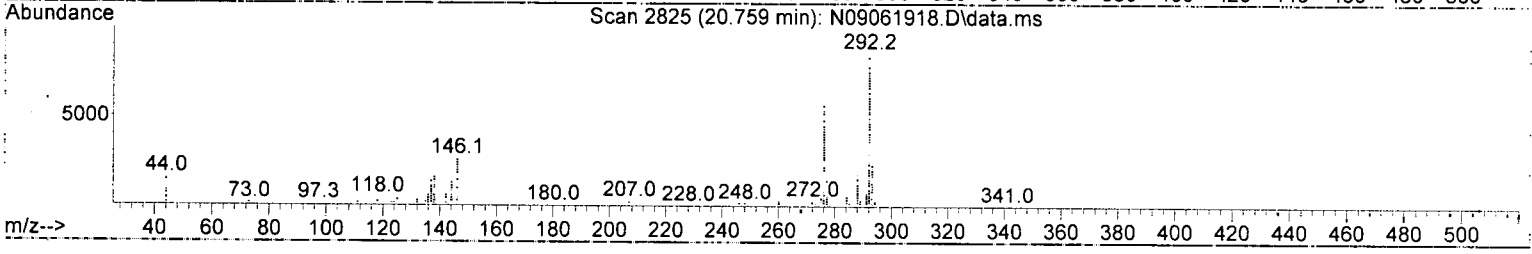
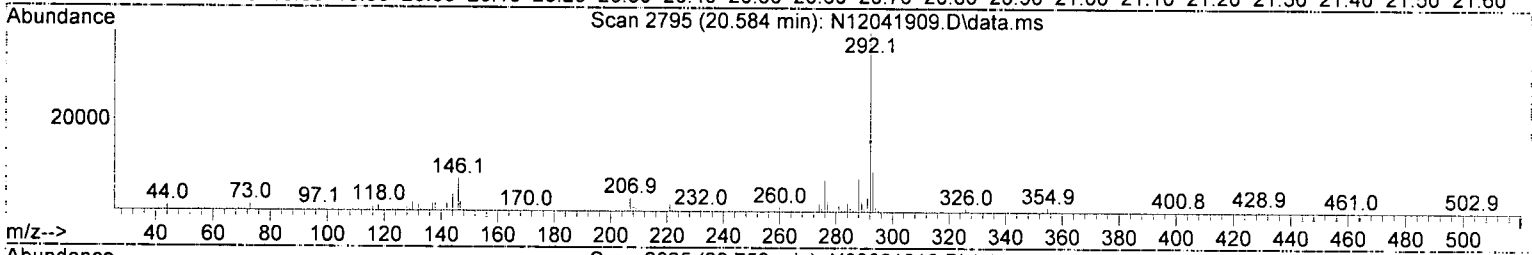
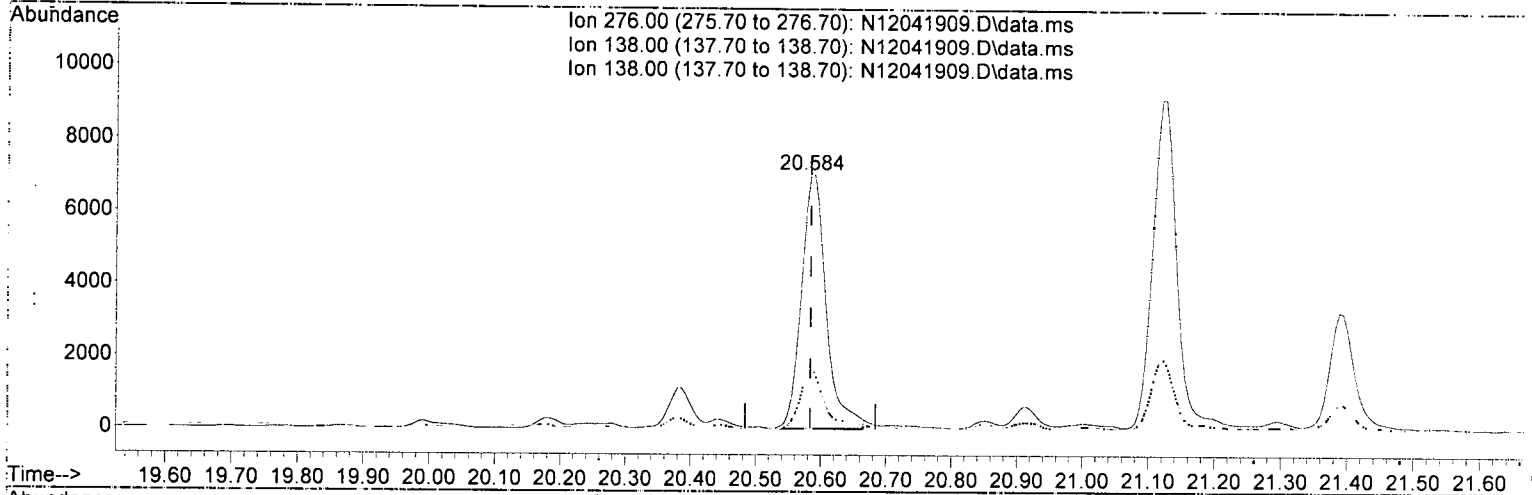
response 26195

Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	9.12
253.00	21.90	22.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14



TIC: N12041909.D\data.ms

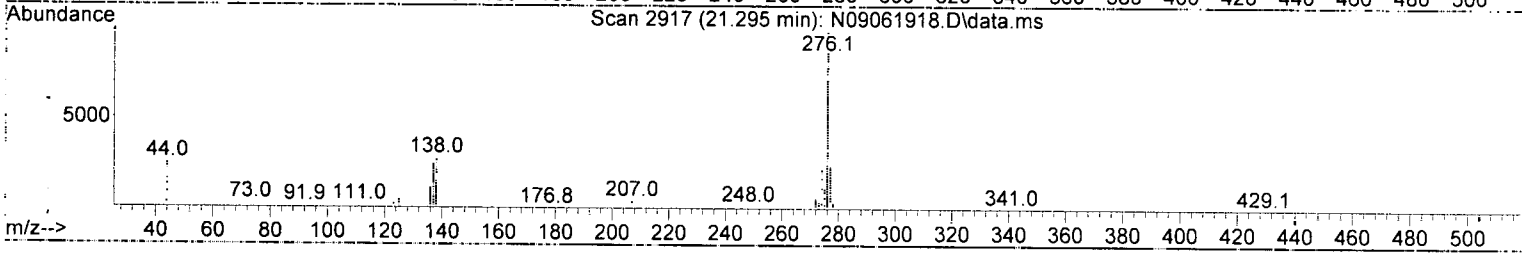
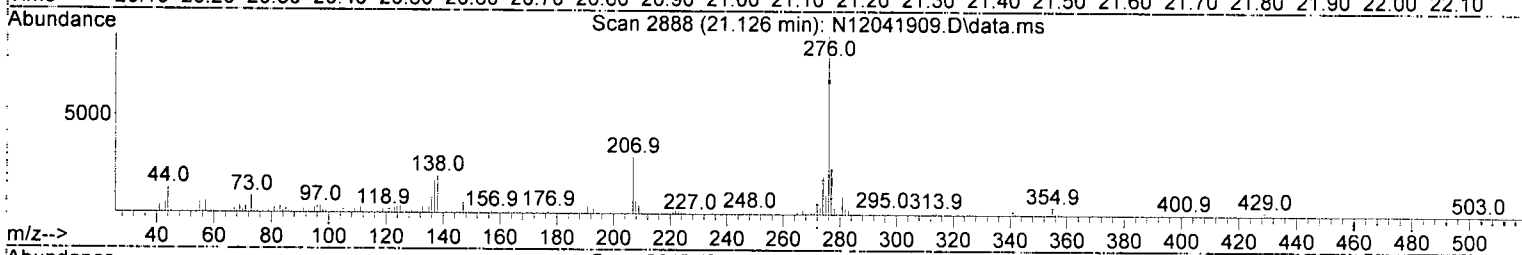
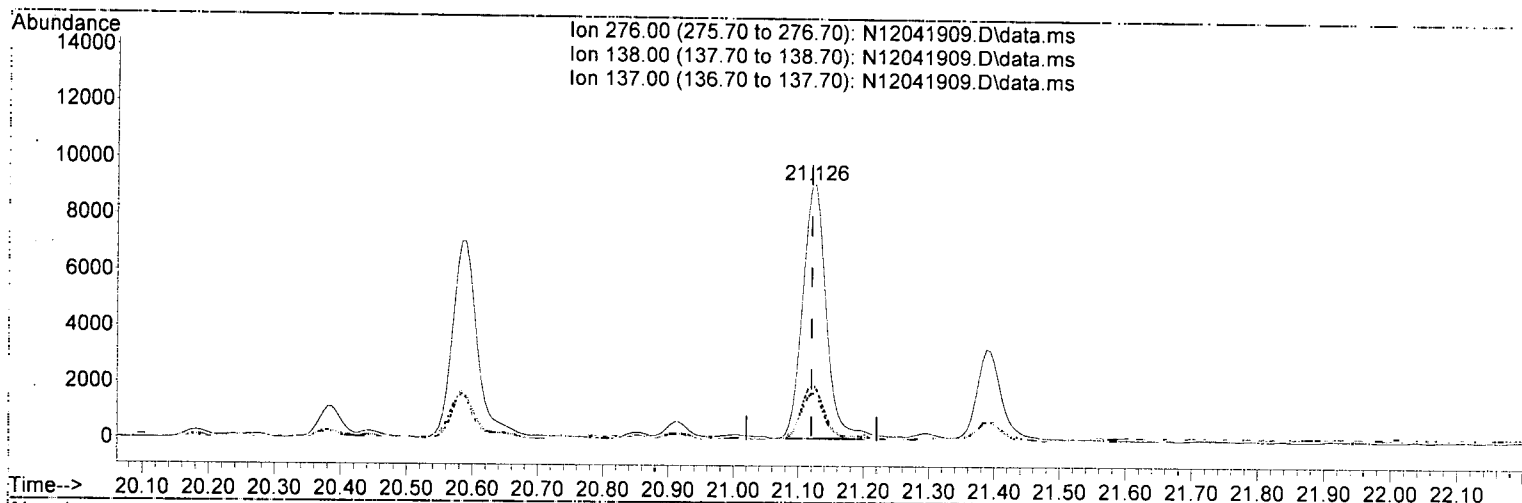
(38) Indeno(1,2,3-cd)Pyrene (T)

20.584min (-0.000)	15.69 ng/ml
response	18583
Ion	Exp% Act%
276.00	100.00 100.00
138.00	31.60 24.39
138.00	31.60 24.39
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 2019  
 Response via : Initial Calibration  
 InstName : SV-GCMS14

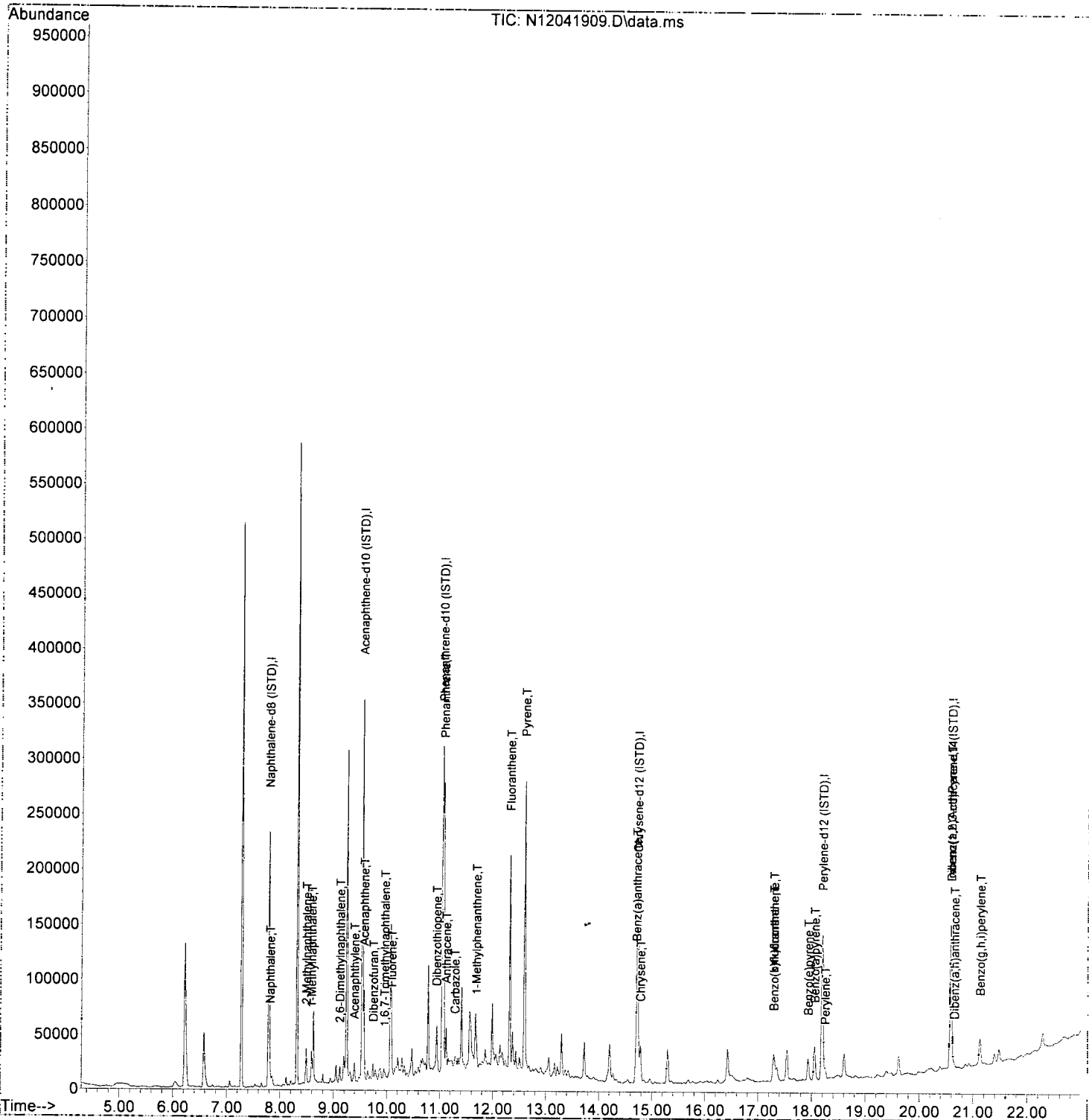


TIC: N12041909.D\data.ms

(40) Benzo(g,h,i)perylene (T)		
21.126min (+ 0.006)	18.12	ng/ml
response	22762	
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	21.00	20.90
137.00	18.60	18.22
0.00	0.00	0.00

Data Path : U:\data\2109-12\9L04042\  
 Data File : N12041909.D  
 Acq On : 04 Dec 2019 06:03 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A9I0890-18@1000  
 Misc : 1000x, 8270D LL PAH ONLY  
 ALS Vial : 9 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Dec 04 18:48:54 2019  
 Quant Method : U:\methods\SV14\_090619\_PAHR6.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Fri Nov 08 10:03:37 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 9/11/19*

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

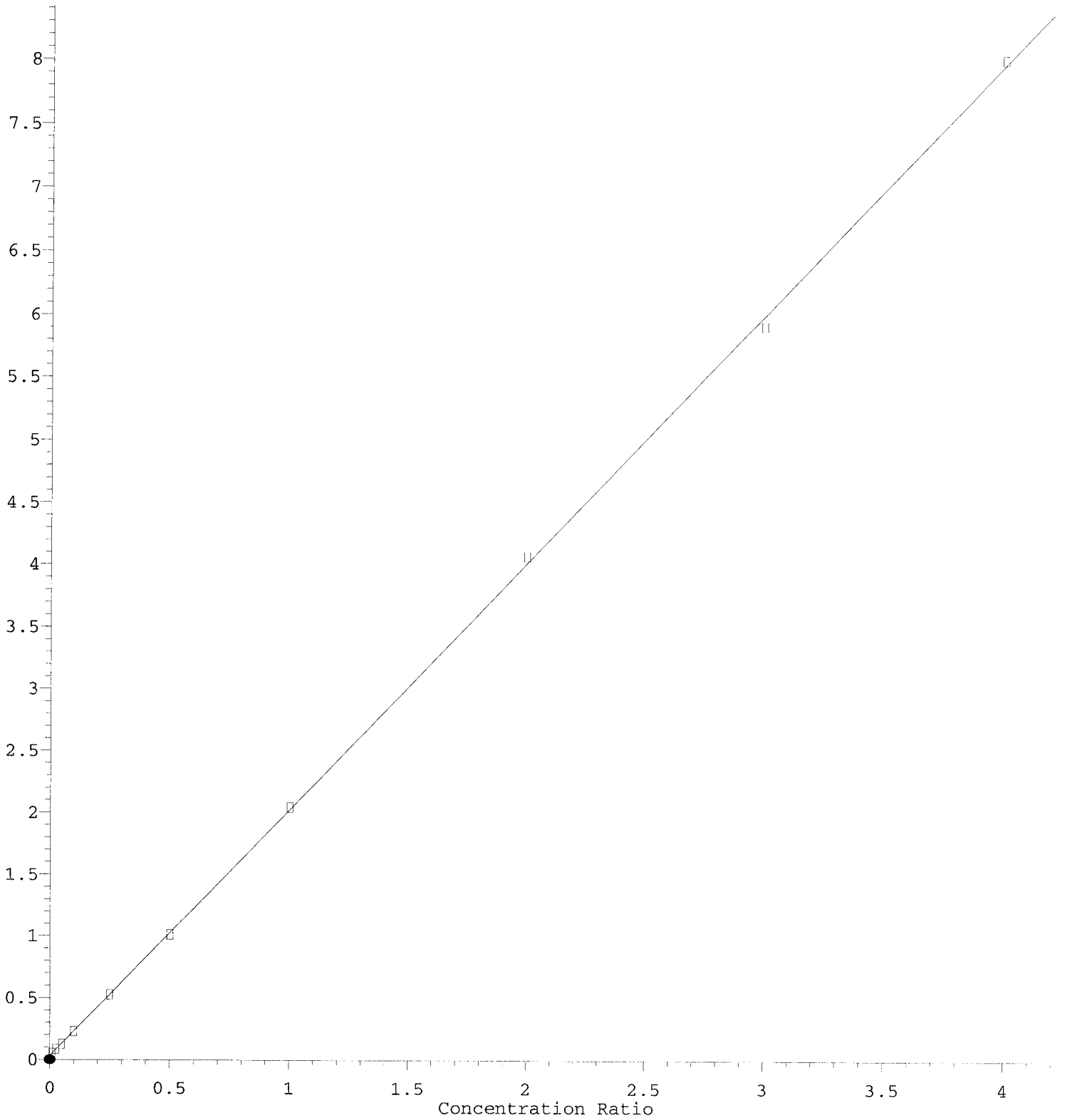
PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Naphthalene-d8 (ISTD)	136	7.883	1.000	A	2	A	B
2	S	Nitrobenzene-d5 (Surr)	82	7.184	0.911	A	1	A	R
3	T	Decalin	138	7.364	0.934	A	2	A	B
4	T	Naphthalene	128	7.907	1.003	A	2	A	R
5	T	2-Methylnaphthalene	142	8.589	1.089	A	2	A	R
6	T	1-Methylnaphthalene	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/a<sup>2</sup>)

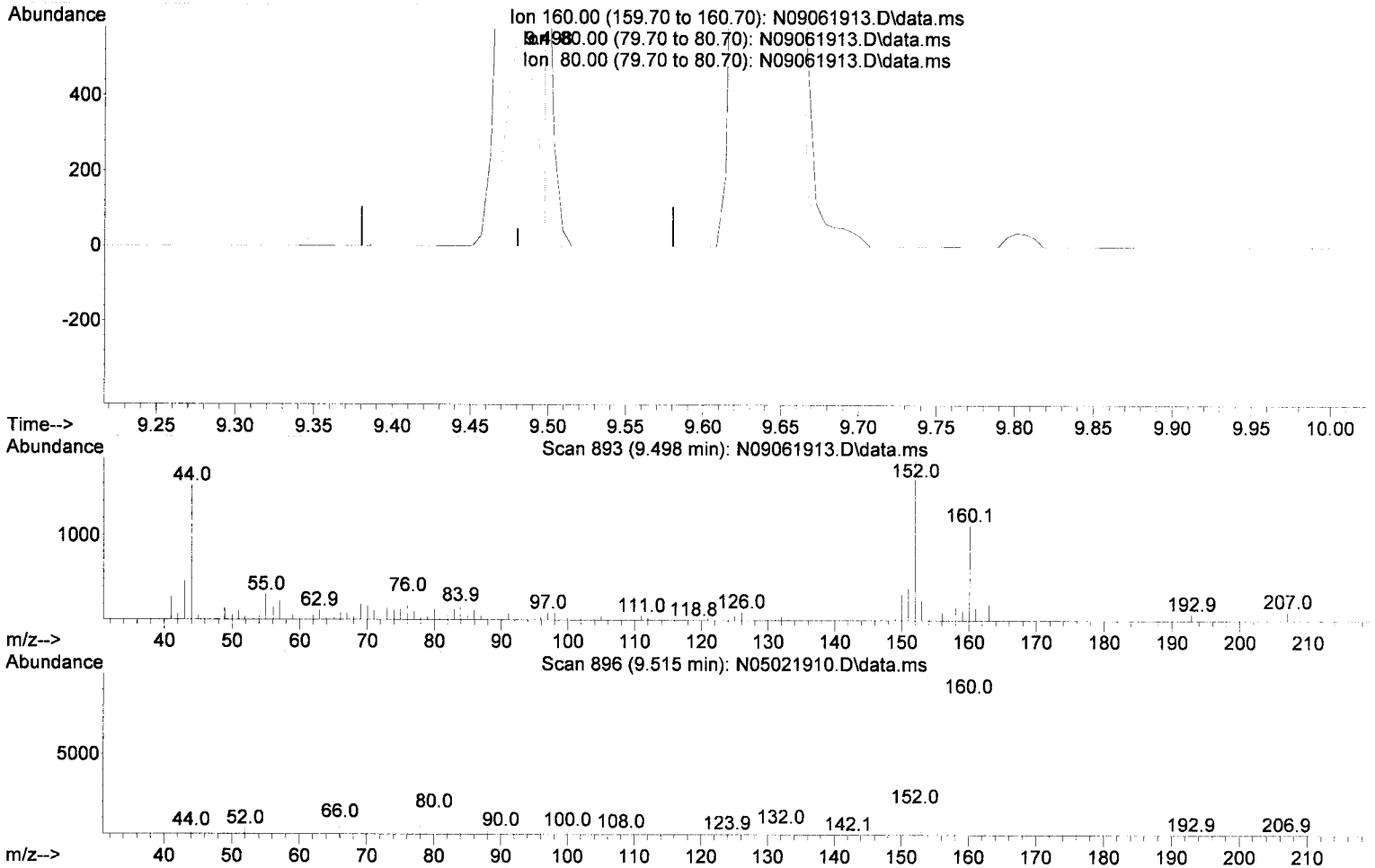
Method Name: N:\methods\SW14\_090619\_PAN.M 01/30/20 Anchor QEA-4-C-Gaseo Prep DG 2019 - 4a-b. DOC-CAP Testing Cores Page 987 of 1075

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		
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		
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		

*21.60 21.60 9/10/19*

3.08'  
 3.01'  
 5.85'

(#) = 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**

	<u>Inst. MRL</u>	<u>Recalc Res.</u>	<u>Cal Level</u>	<u>%Rec.</u>	<u>Qual</u>
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

*Qd 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

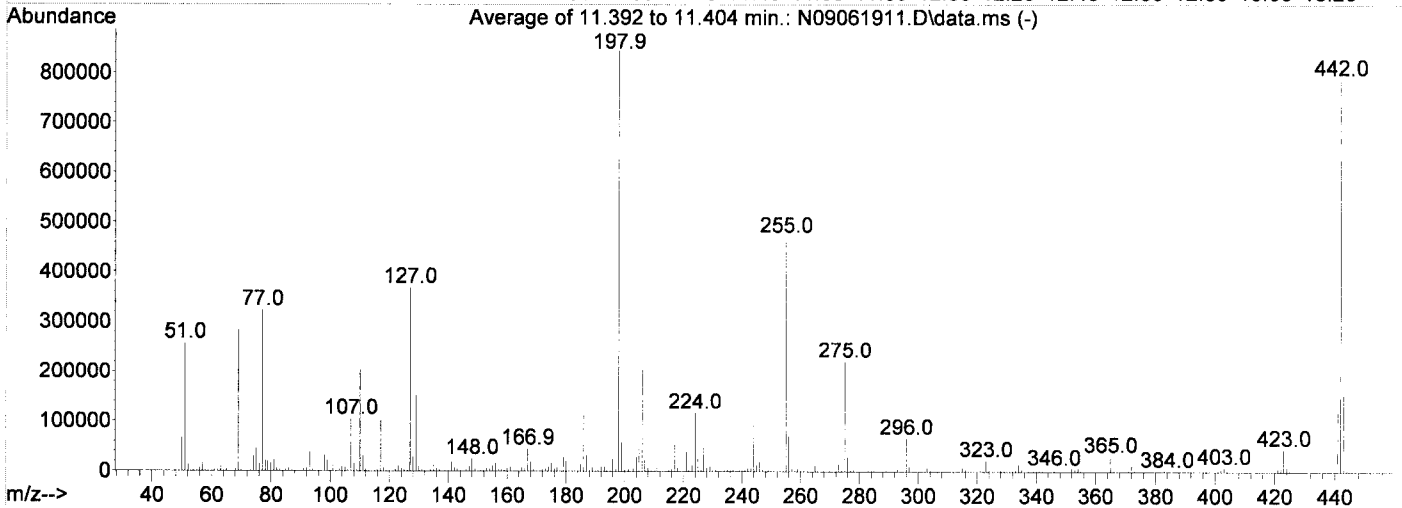
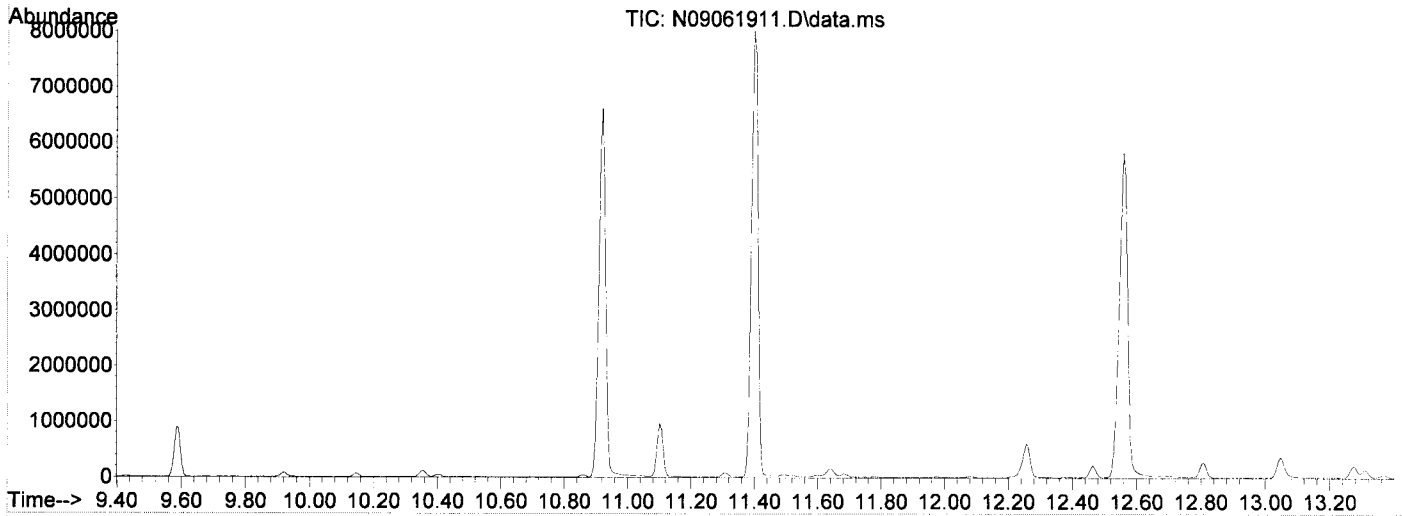


Data Path : N:\data\2019-09\9I06028\  
 Data File : N09061911.D  
 Acq On : 06 Sep 2019 03:51 pm  
 Operator :  
 Sample : 9I06028-TUN1  
 Misc : 1x, A19H414 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1

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*



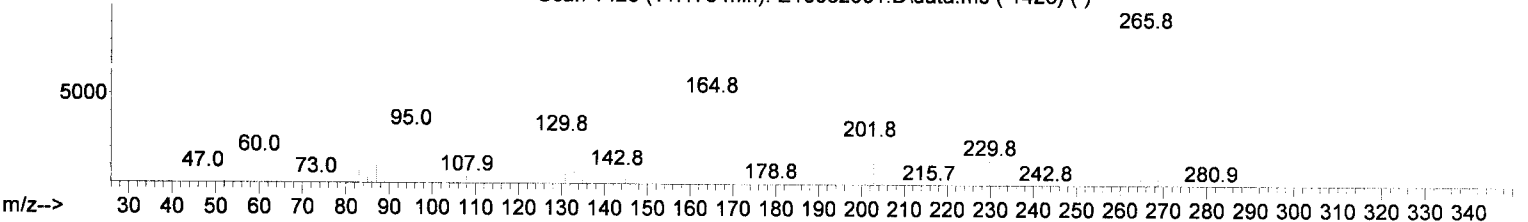
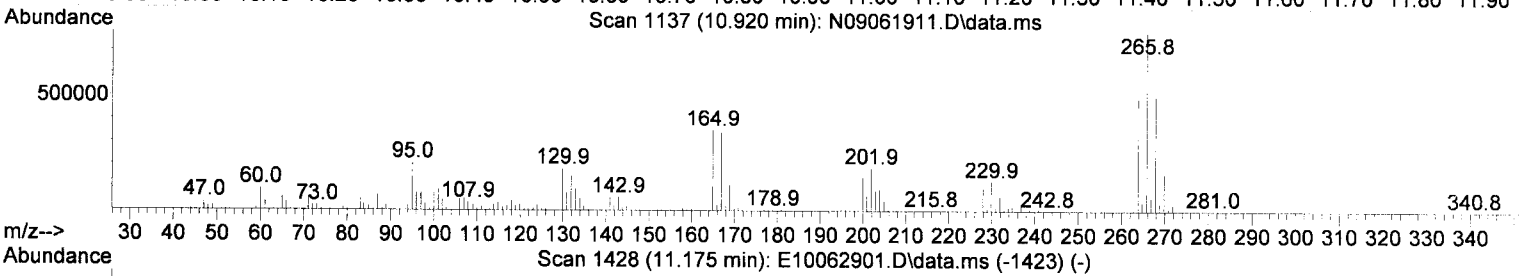
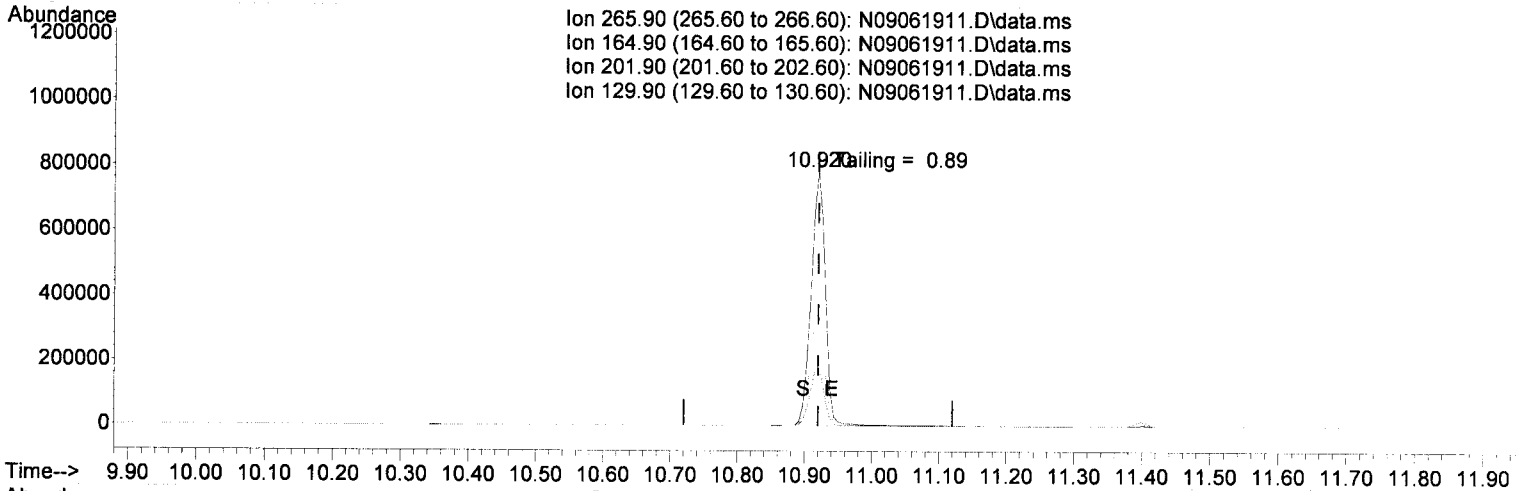
AutoFind: Scans 1218, 1219, 1220; Background Corrected with Scan 1212

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

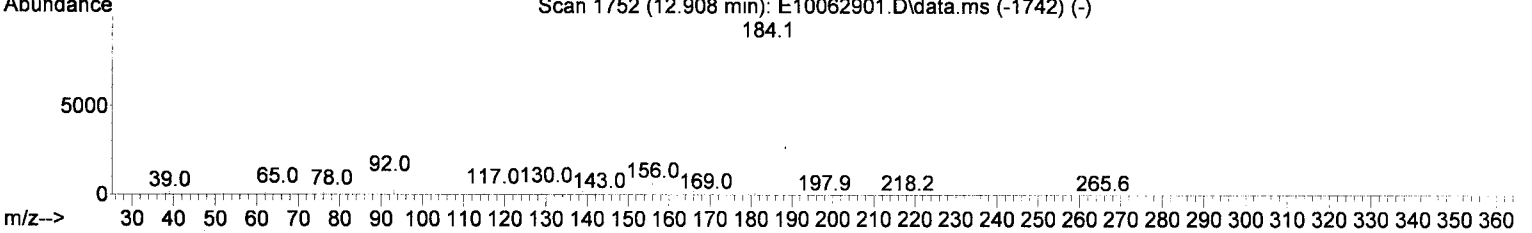
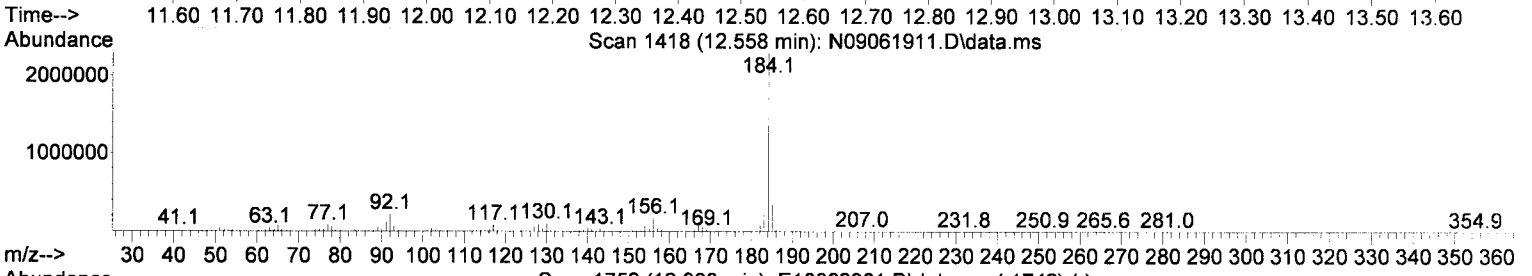
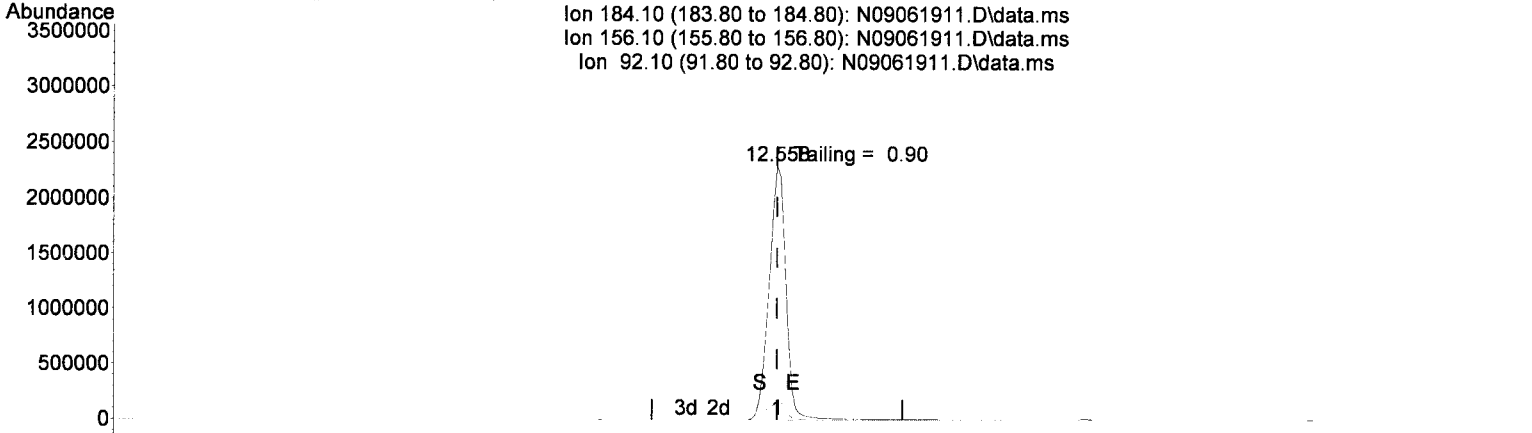
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	44.95
201.90	25.80	23.85
129.90	27.30	23.19

*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)

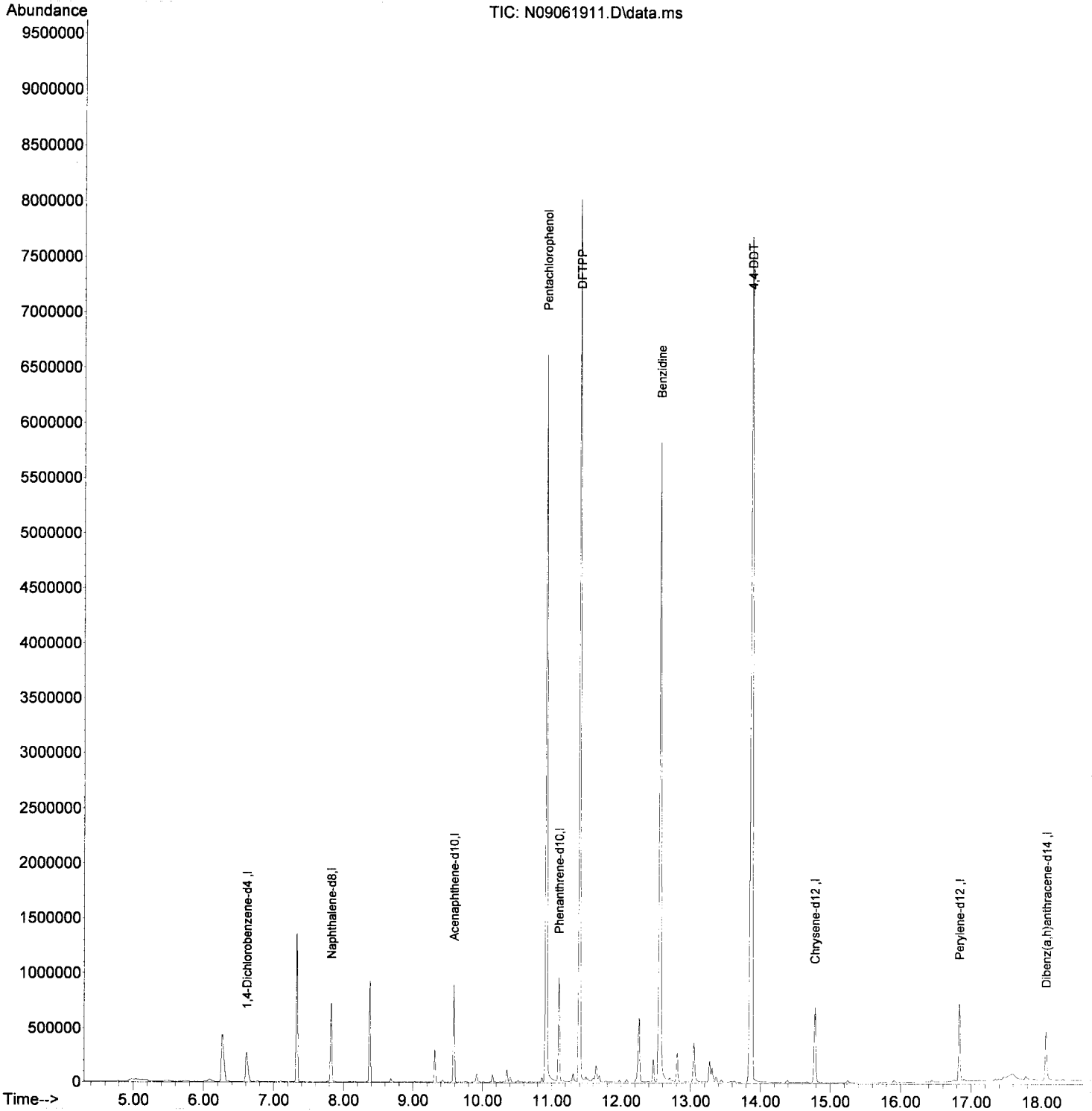
From:  
9I06028-TUN1  
SV-GCMS14

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

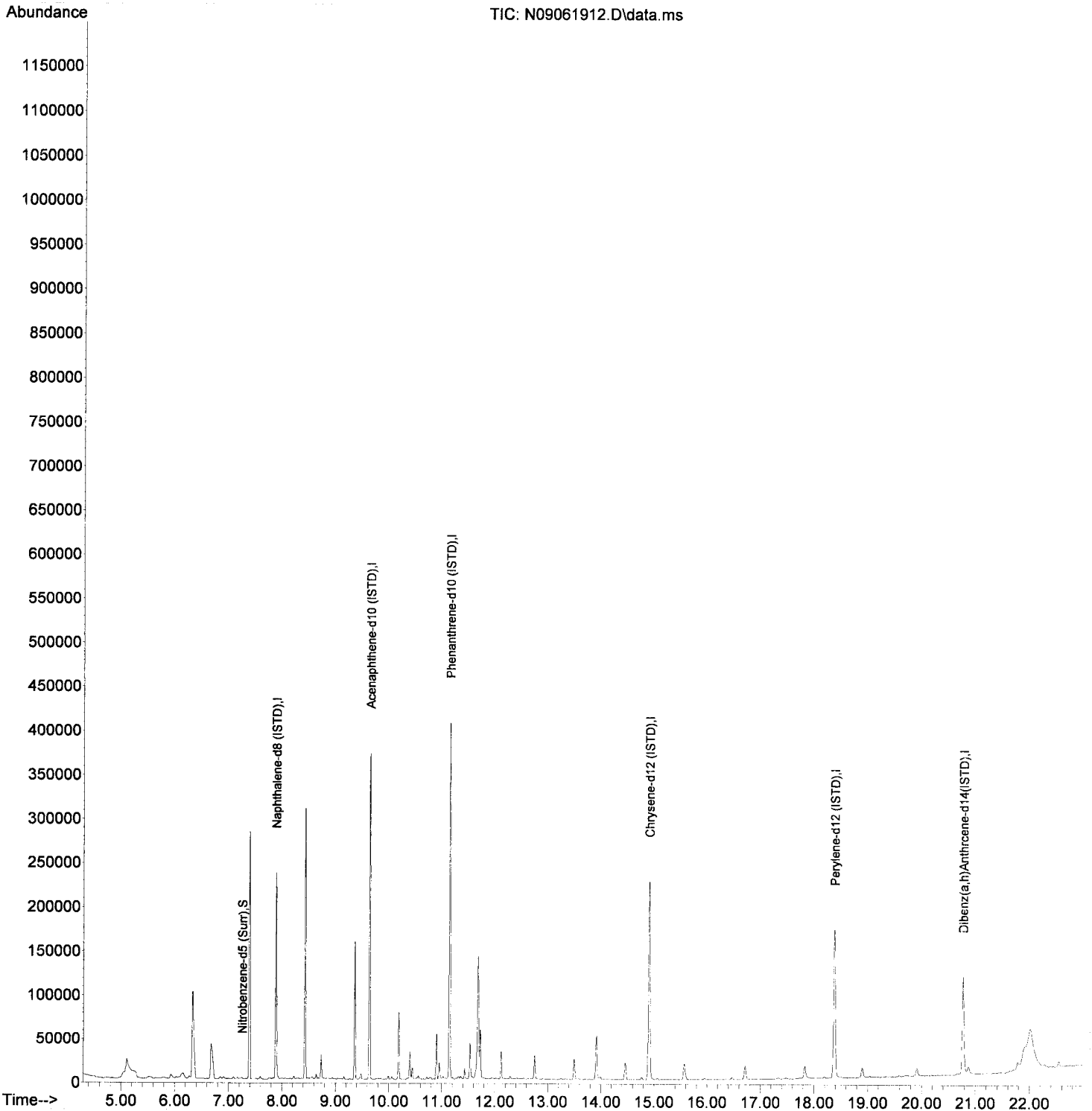
*Handwritten signature and date: 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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		
<b>Target Compounds</b>							
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*

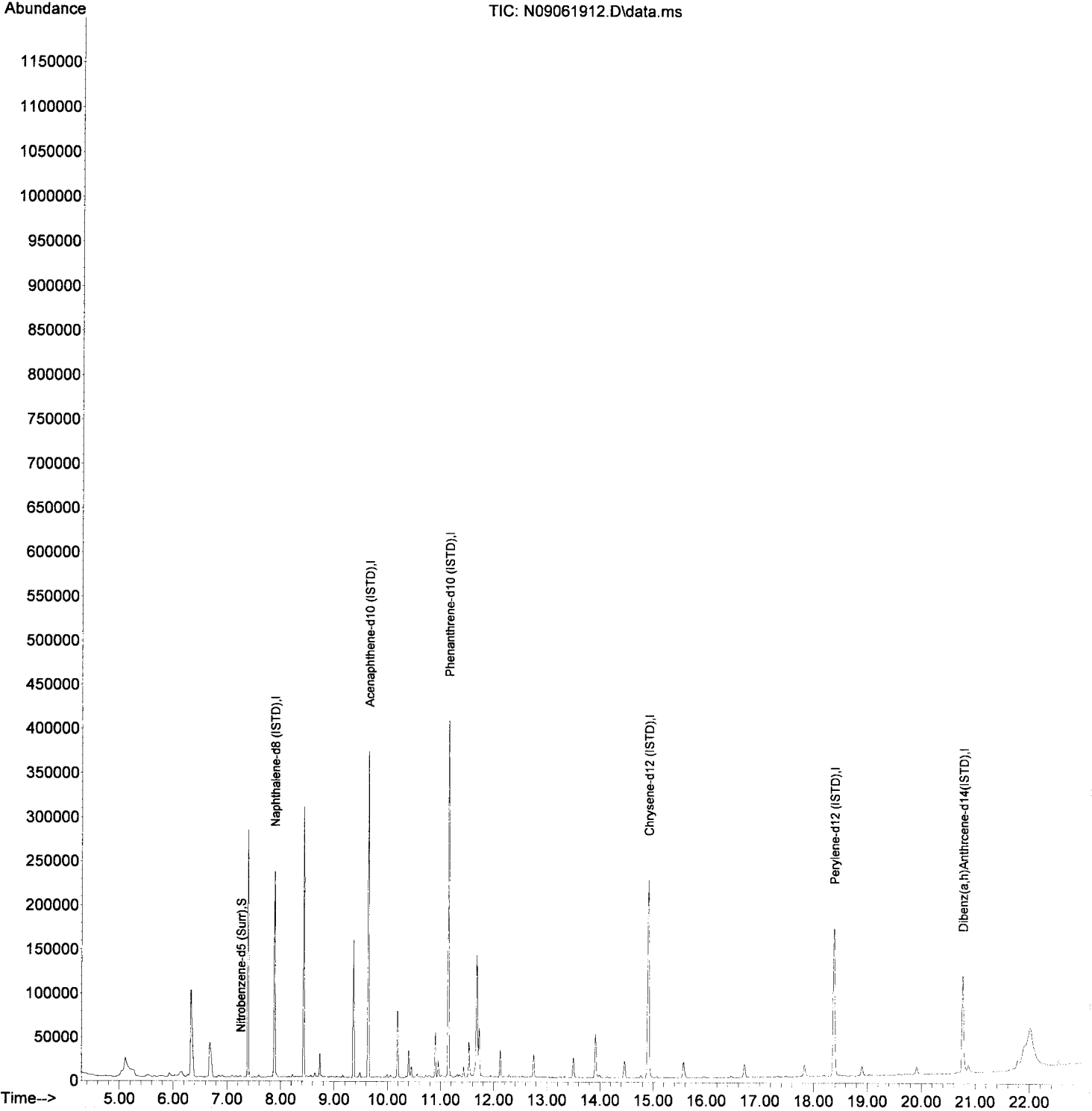
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.883	136	153621	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.643	162	109411	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	203705	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	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	
<b>System Monitoring Compounds</b>							
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		
<b>Target Compounds</b>							
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

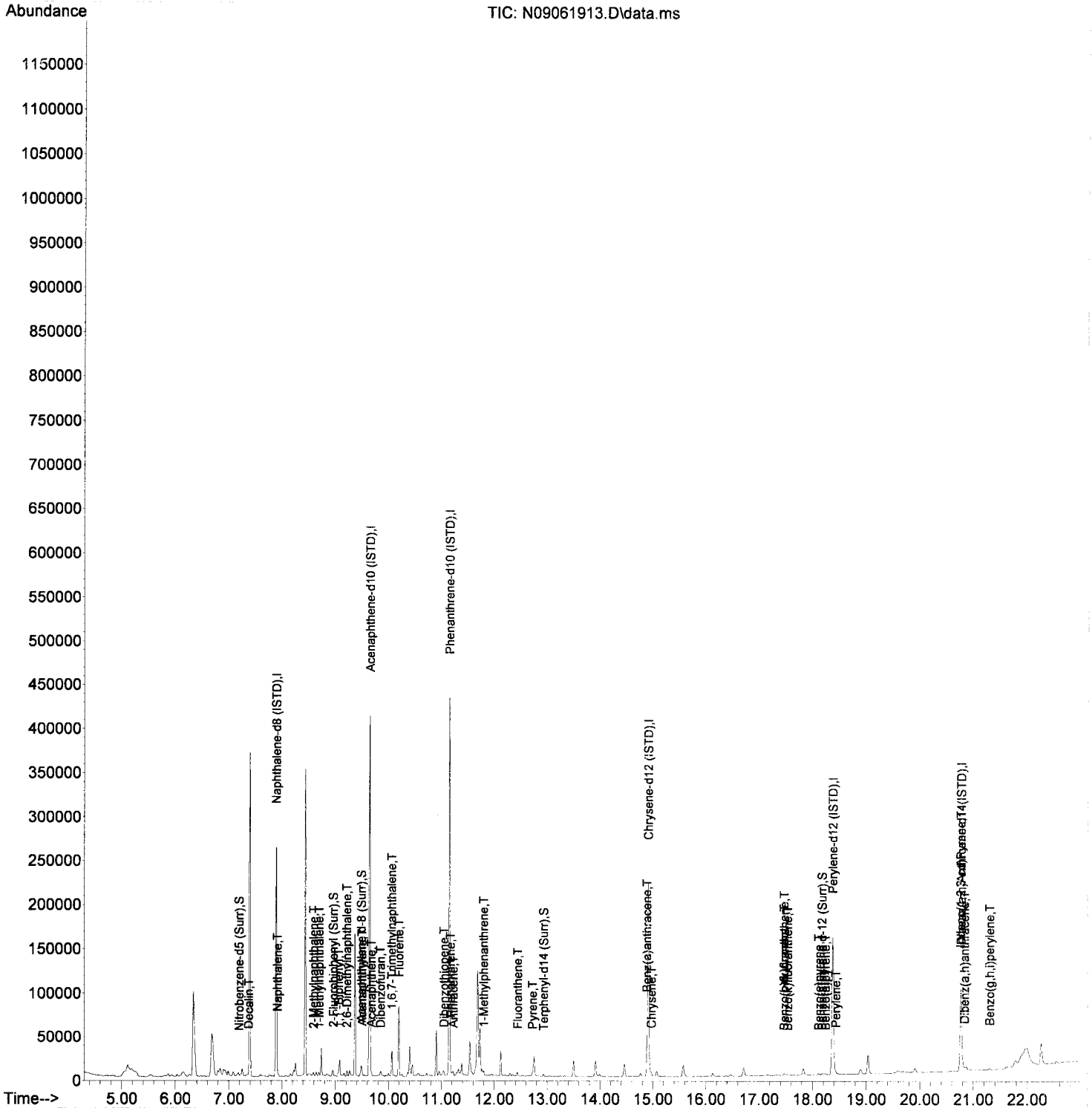
*GK 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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

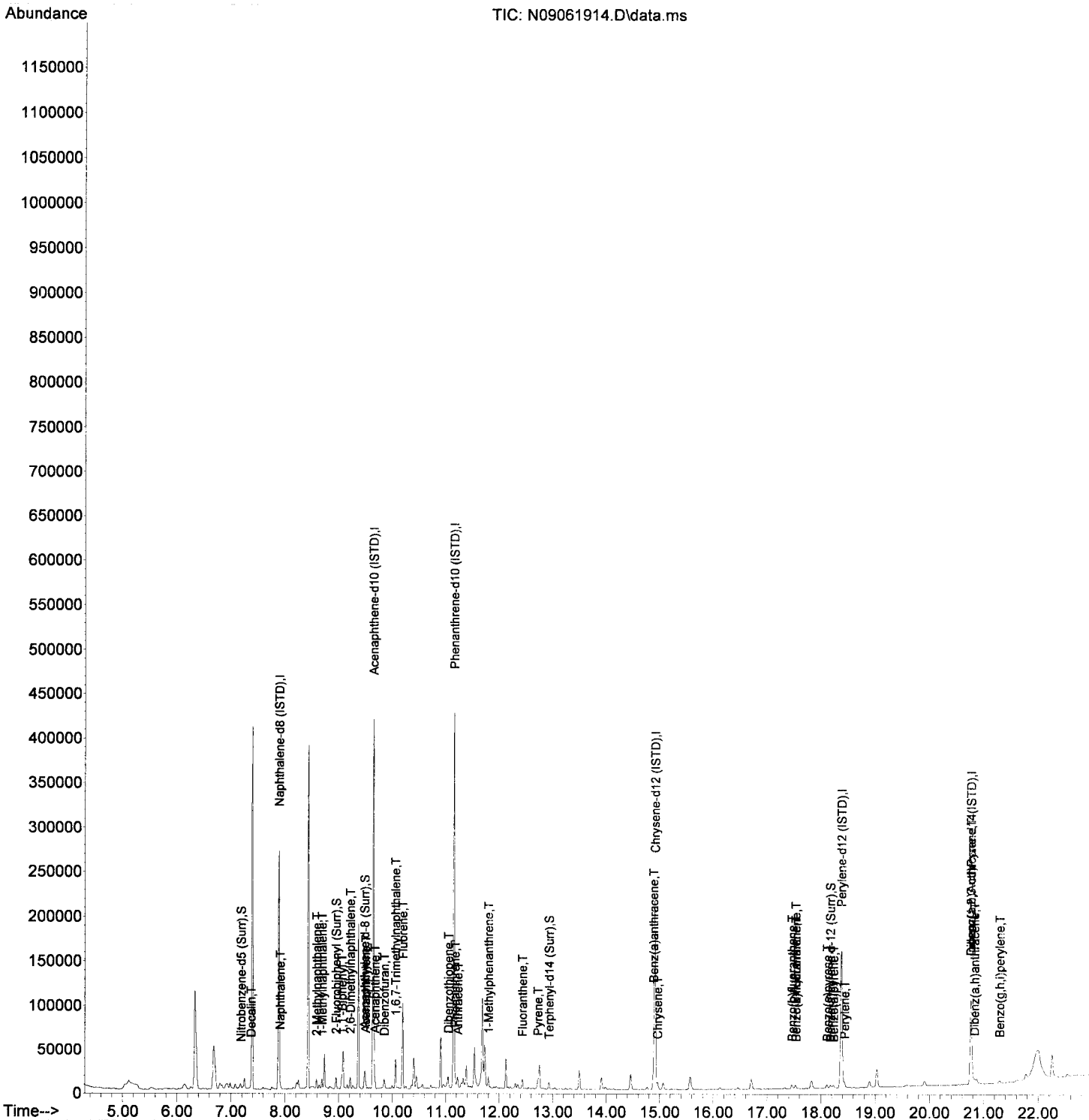
*GR 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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

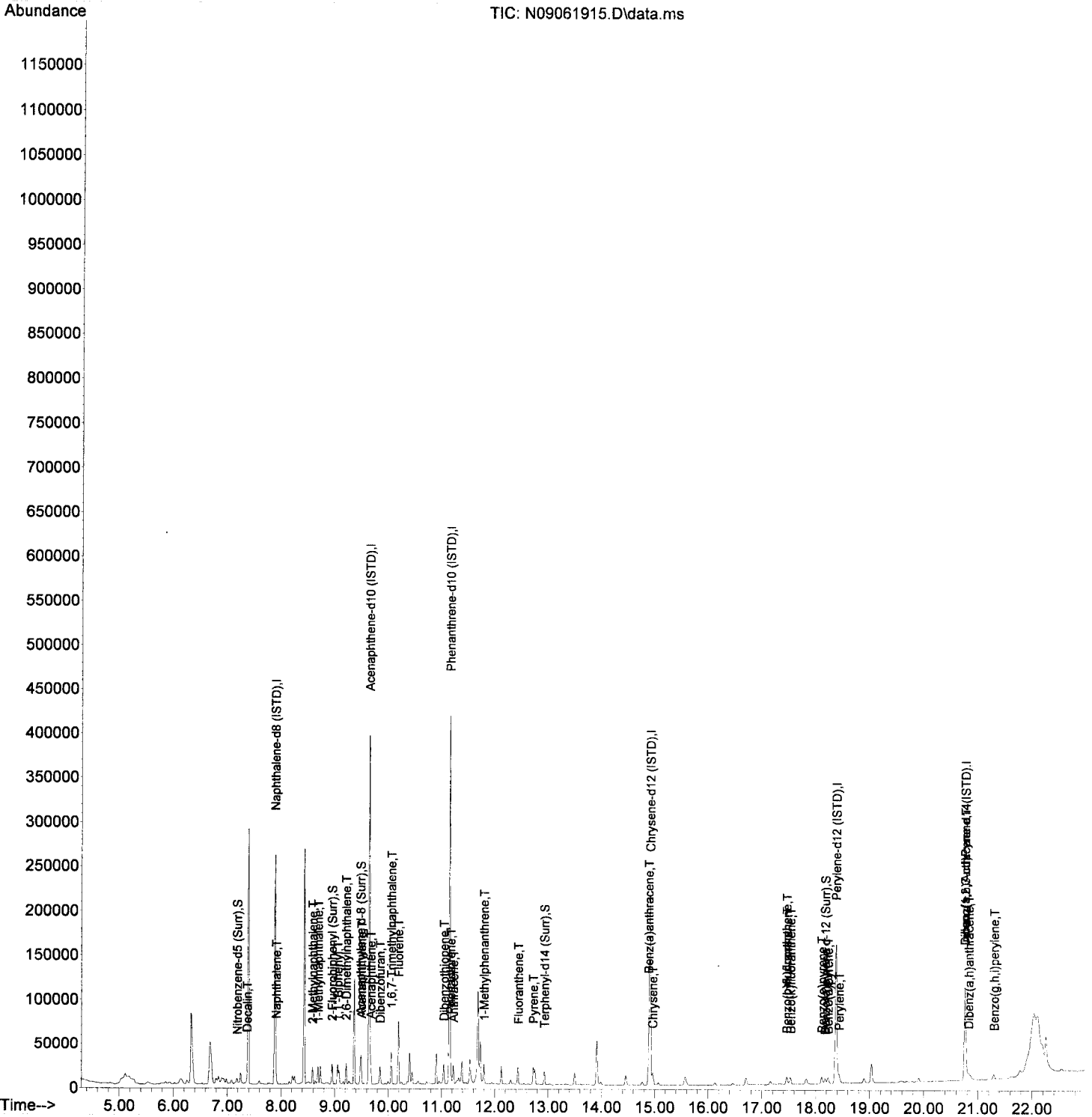
*Handwritten signature and date: 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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*

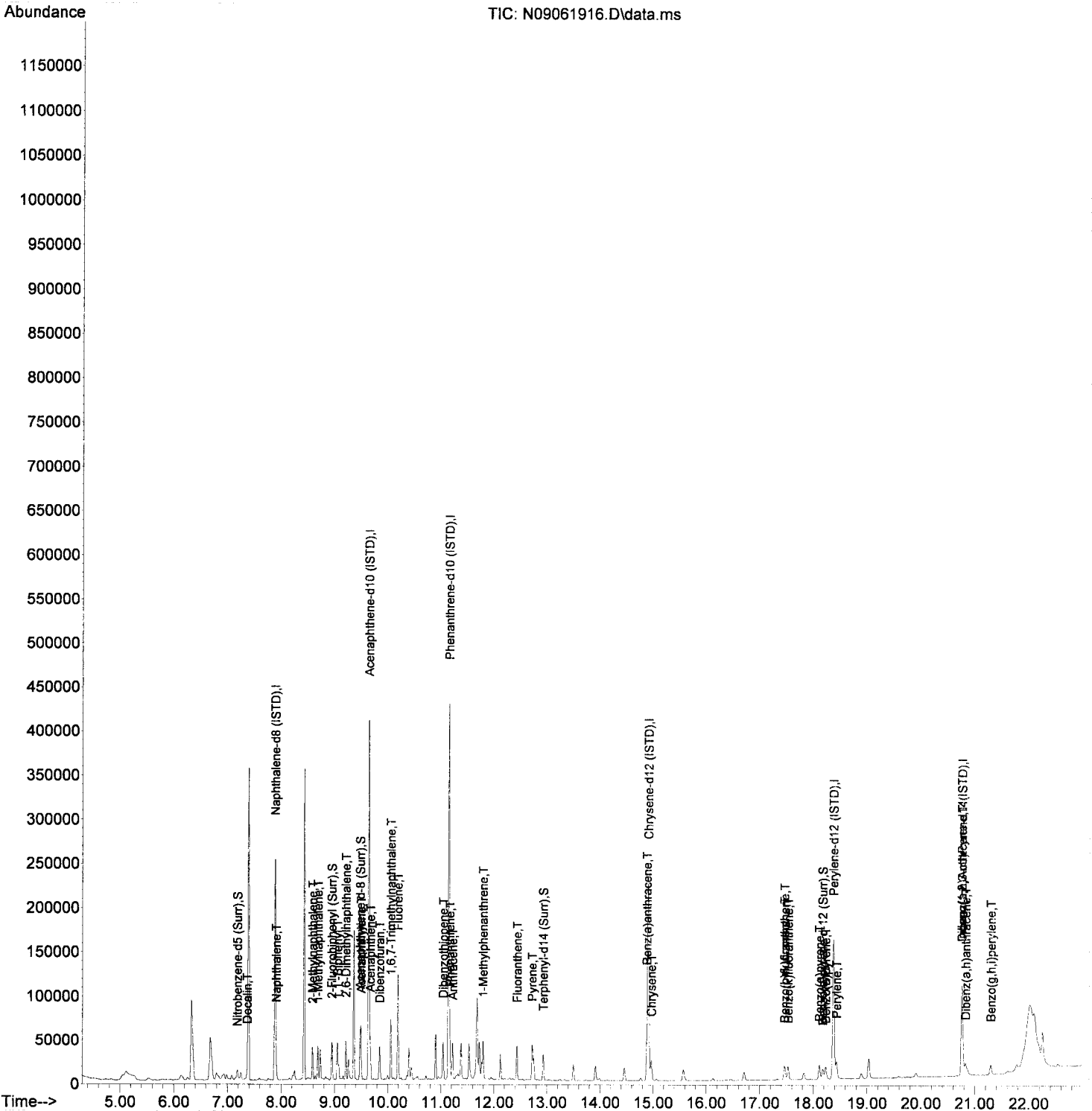
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.883	136	160906	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	118305	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	216396	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.907	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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							Qvalue
3) Decalin	7.365	138	1106	9.23	ng/ml		96
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

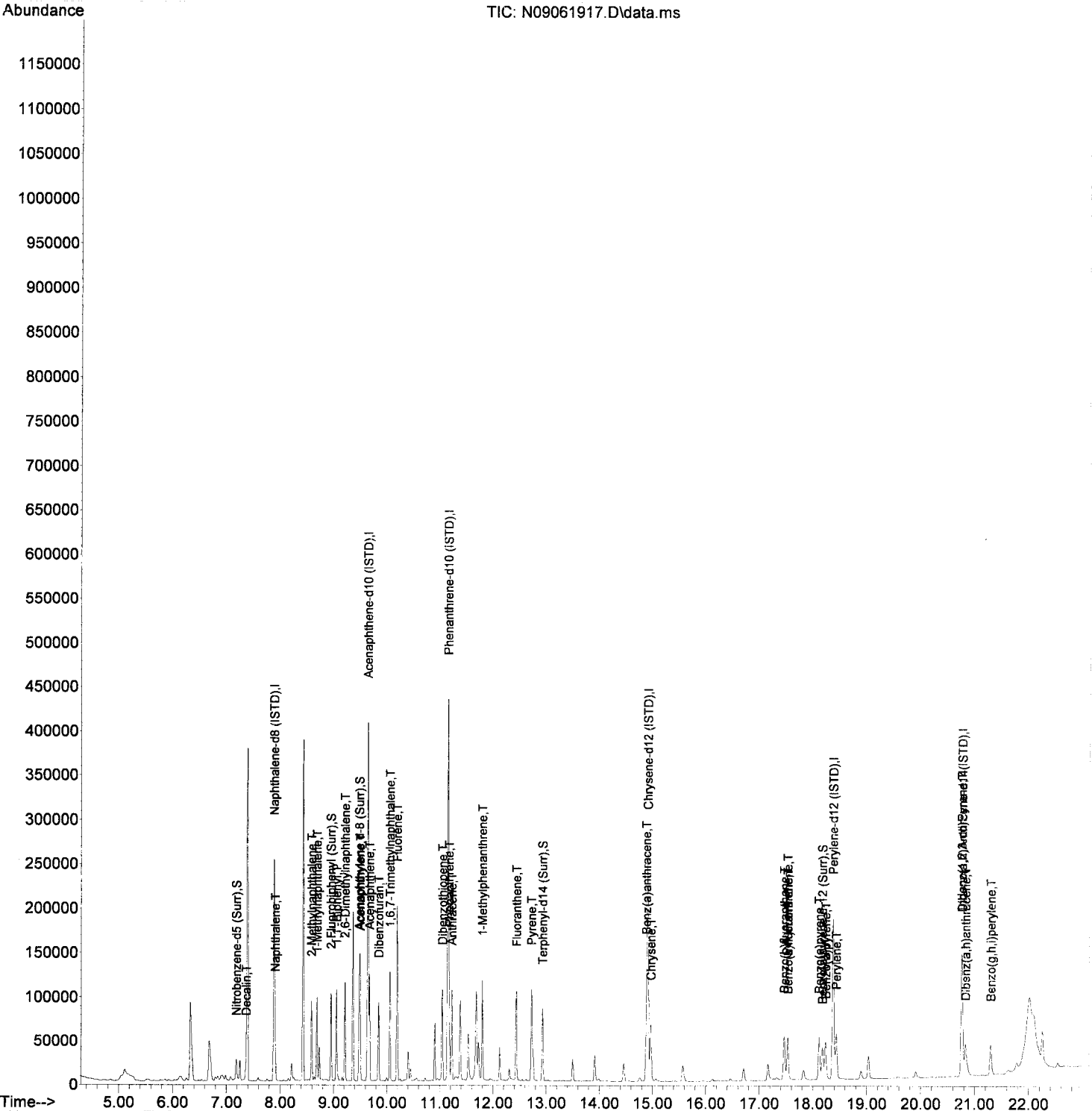
*Handwritten:* Jd 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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

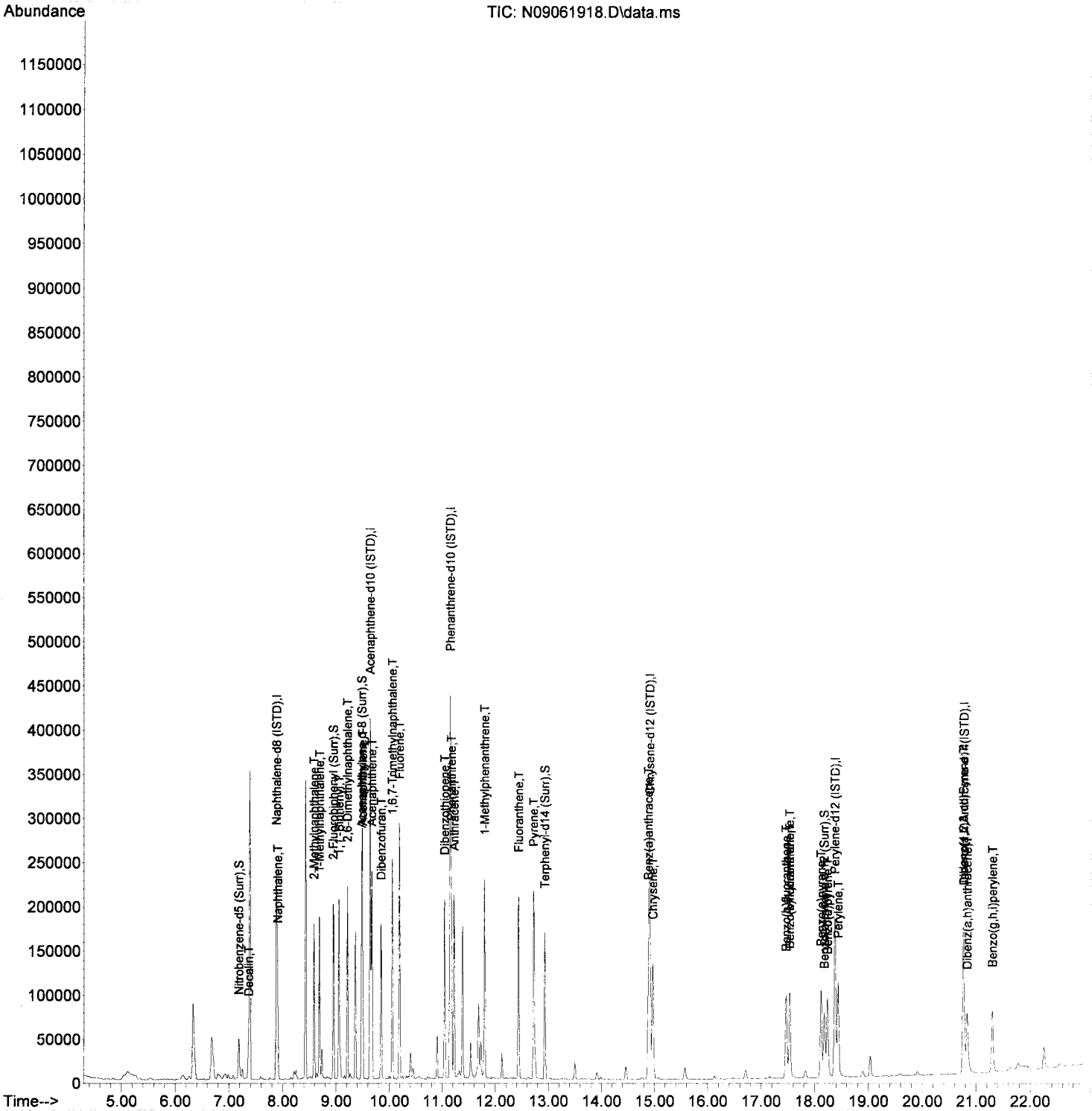
*JD 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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

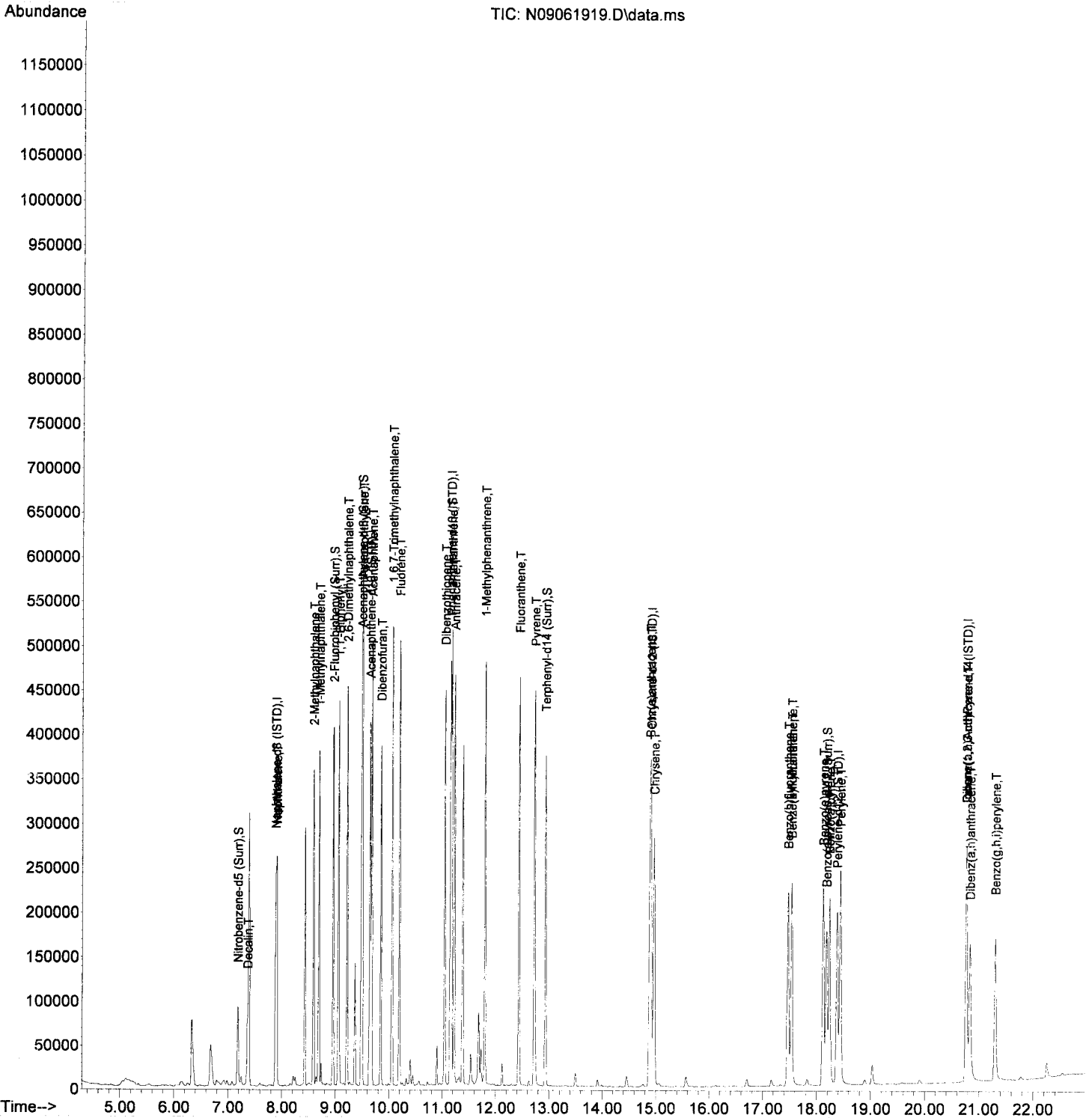
*JD 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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*

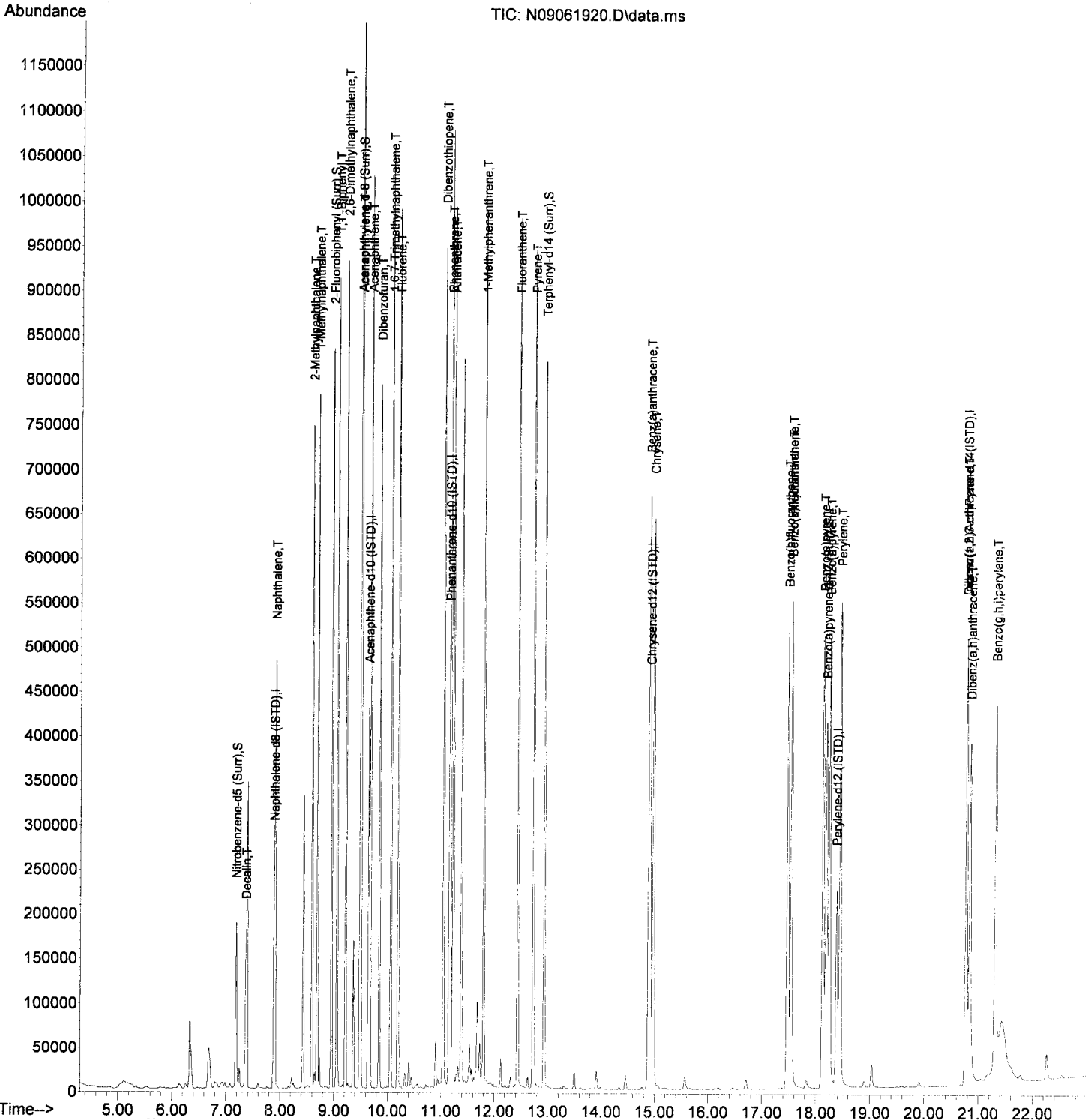
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.883	136	148783	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	126650	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.147	188	244292	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.913	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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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  
 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

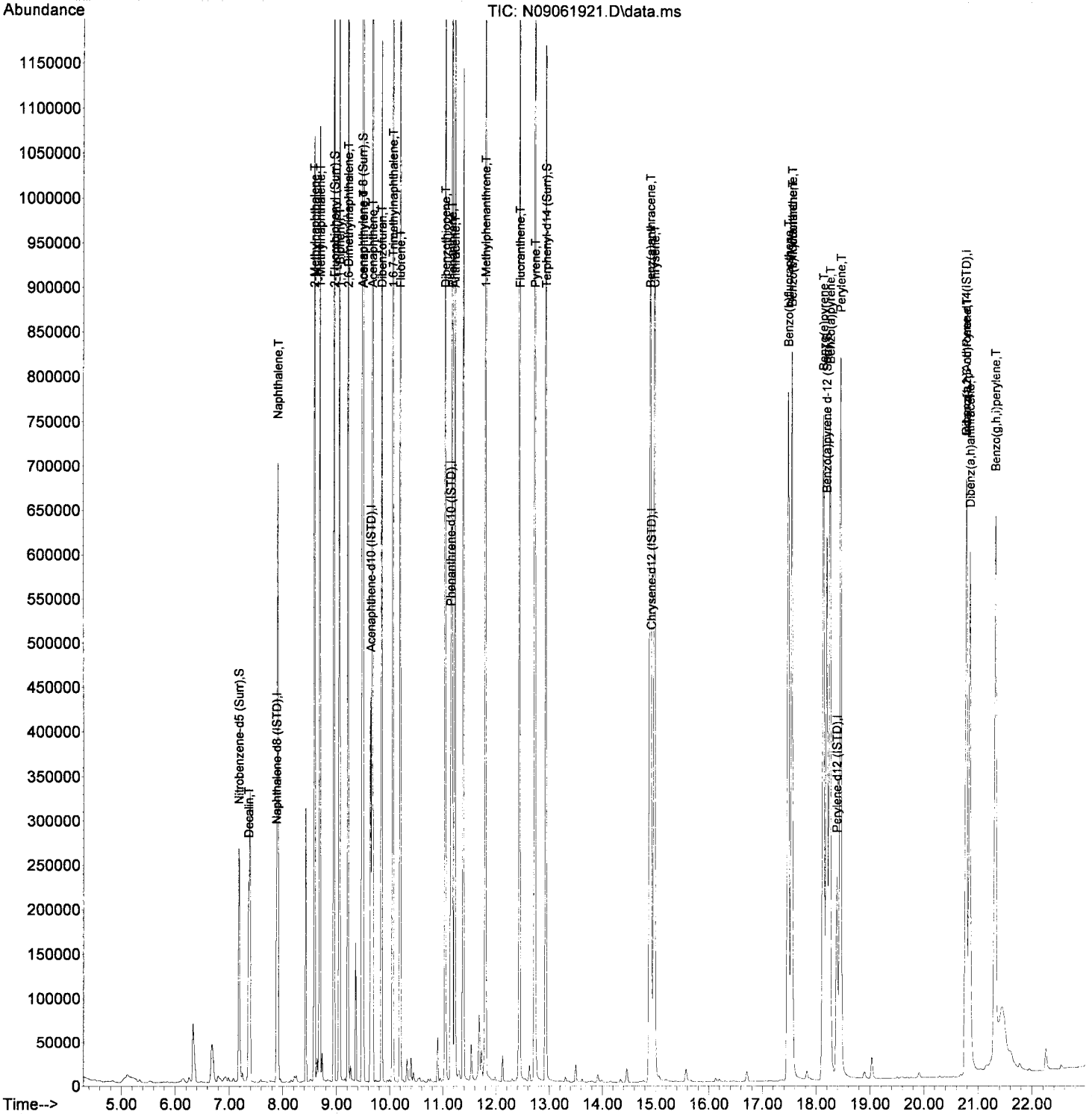
*9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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

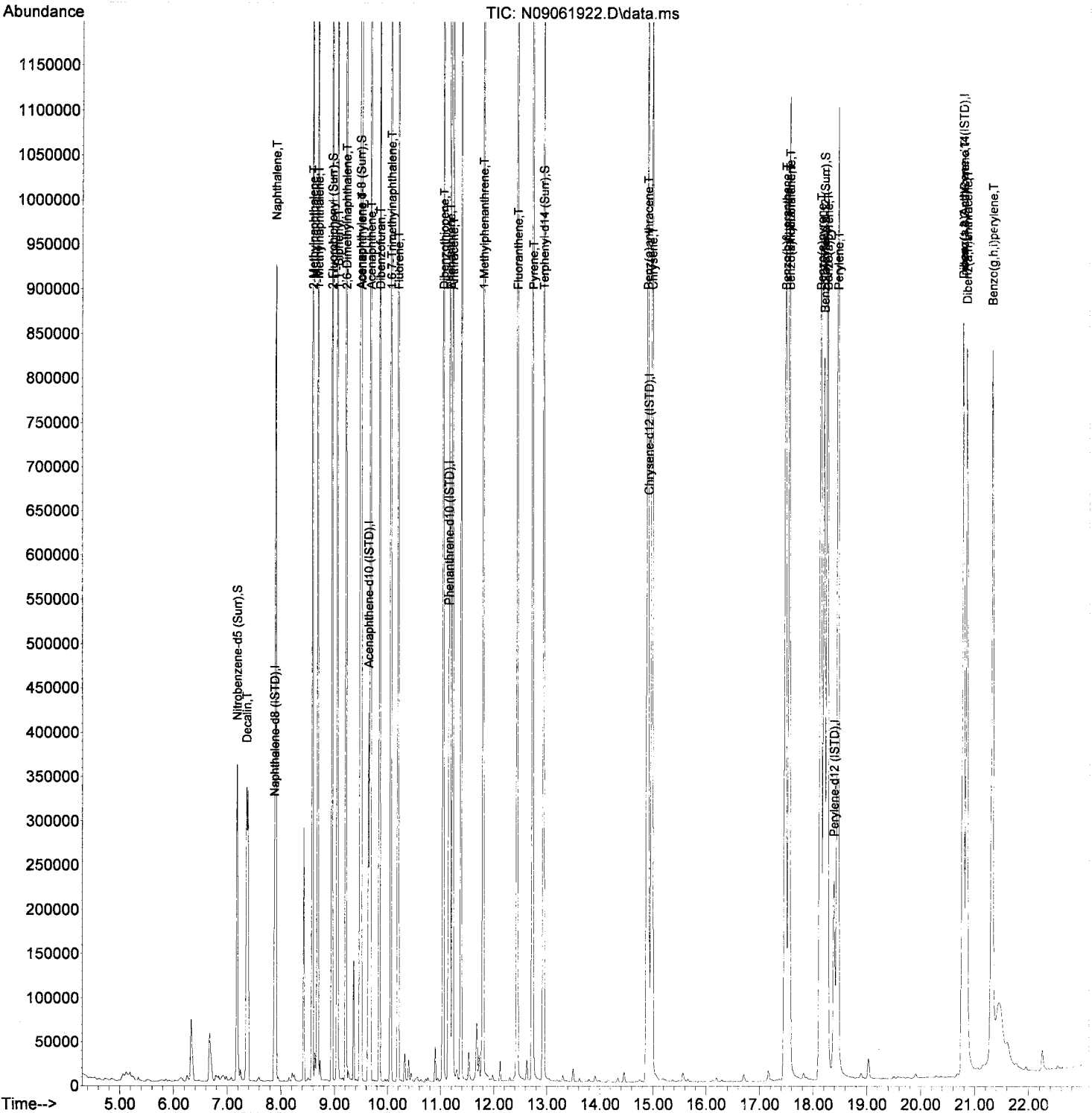
*Handwritten signature and date: JN 9/9/19*

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							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

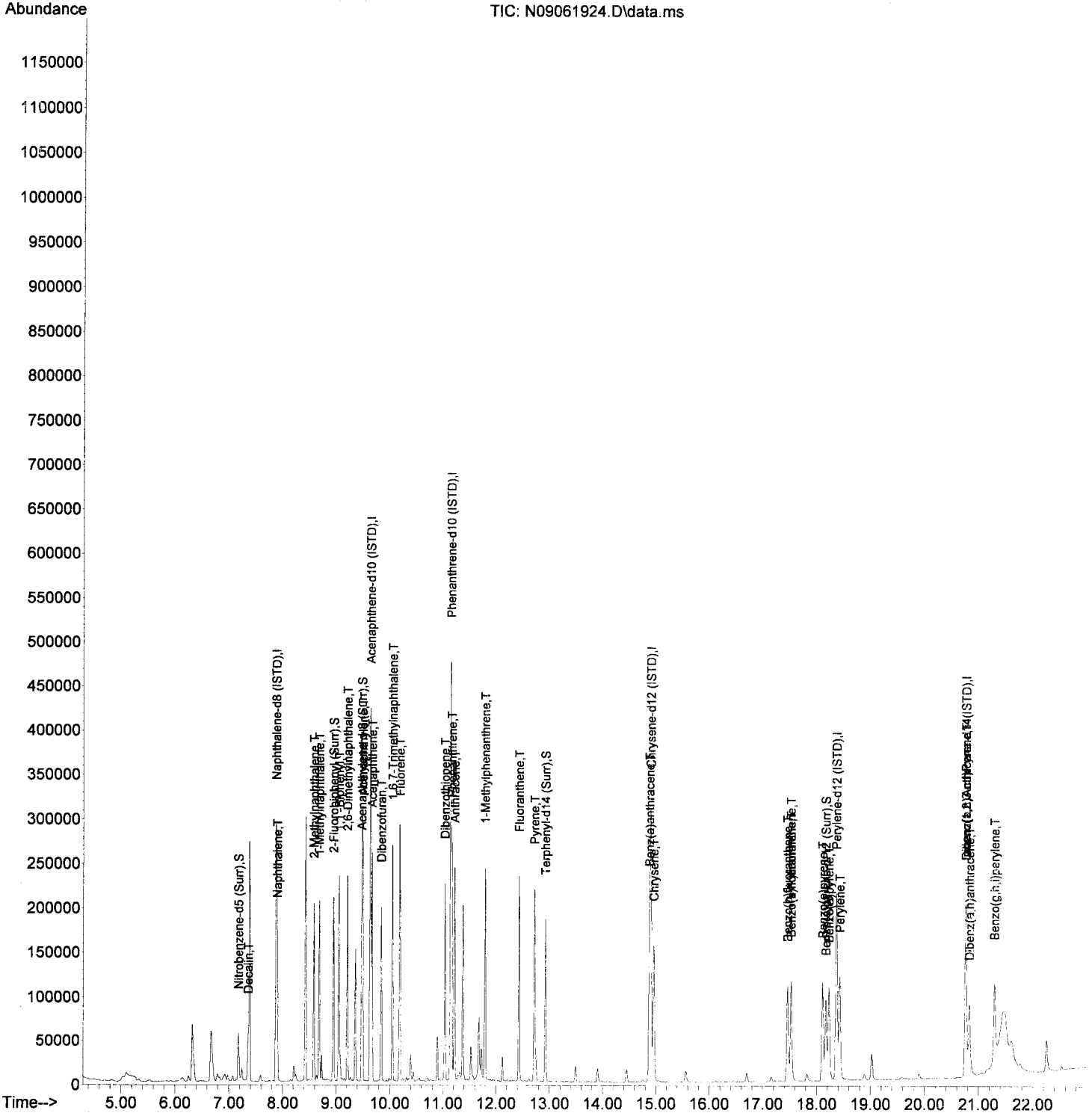
*Handwritten signature/initials*  
 9/9/19

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
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*

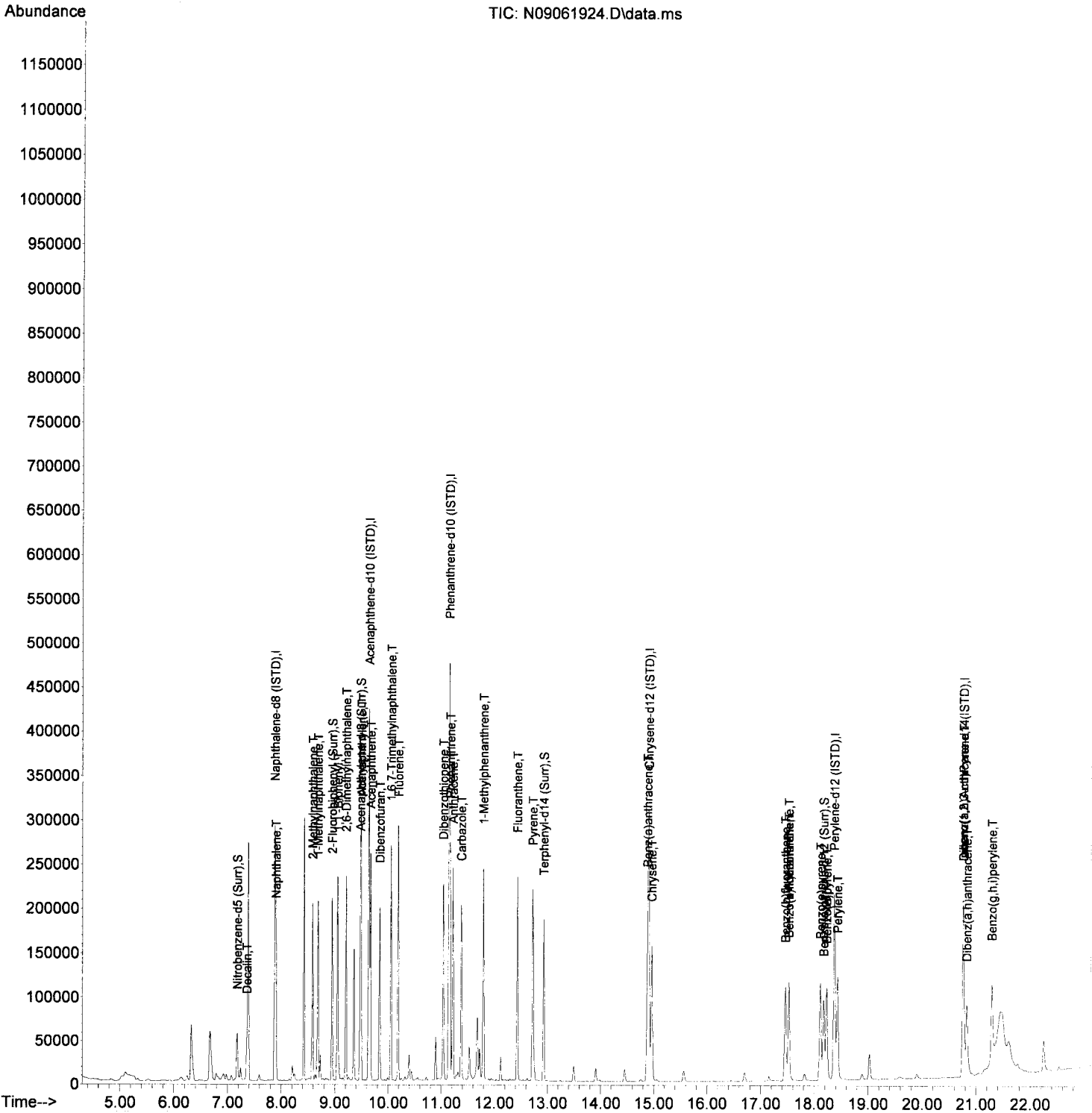
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.877	136	181748	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.638	162	125177	100.00	ng/ml	0.00	
17) Phenanthrene-d10 (ISTD)	11.141	188	235054	100.00	ng/ml	0.00	
24) Chrysene-d12 (ISTD)	14.901	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	
<b>System Monitoring Compounds</b>							
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	
<b>Target Compounds</b>							
							<b>Qvalue</b>
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 9111270  
Sequence 9L03043 (A9I0890-03,04)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

DEC 05 2019  
Quality 4-08.  
JLF 12/4/19

BATCH #: 9111270 (Solid)

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	5	>11	
	9111270-BLK1	QC	11/27/19 08:40	5	5										
	9111270-BS1	QC	11/27/19 08:40	5	5	A19K246		1							
	A910890-03	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-013SC-A-02-03-190925	9/25/19 F = 9/27 T = 11/22				
	9111270-DUP1	QC	11/27/19 08:40	5	5		A910890-03								
	A910890-04	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-013SC-A-03-04-190925					
	A9J0033-16	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-024SC-A-02-03-190927	9/27/19 F = 10/1 T = 11/22				
	9111270-DUP2	QC	11/27/19 08:40	5	5		A9J0033-16								
	A9J0033-17	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-024SC-A-03-04-190927					
	A9J0033-26	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-025SC-A-02-03-190927					
	A9J0033-27	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-025SC-A-03-04-190927					
	A9J0033-30	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-030SC-A-01-02-190929	9/29/19 F = 10/1 T = 11/22				
	A9J0033-39	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-036SC-A-00-01-190929					
	A9J0033-40	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-036SC-A-01-02-190929					
	A9J0096-01	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-039SC-A-00-01-190930	9/30/19 F = 10/3 T = 11/22				
	9111270-DUP3	QC	11/27/19 08:40	5	5		A9J0096-01								
	A9J0096-02	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-039SC-A-01-02-190930					
	A9J0096-13	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-040SC-A-00-01-190930					
	A9J0096-14	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-040SC-A-01-02-190930					
	A9J0353-07	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-019SC-A-06-07-191008	10/6/19 F = 10/10 T = 11/23				
	9111270-DUP4	QC	11/27/19 08:40	5	5		A9J0353-07								
	9111270-DUP5	QC	11/27/19 08:40	5	5		A9J0353-07				triplicate				

Prepared By: CWR Date: 12/3/19

Reviewed By: JLF Date: 12/4/19

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9111270 (Solid)**

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	5/6	>11
	A9J0353-08	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-019SC-A-07-08-191008				
	A9J0353-15	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-020SC-A-02-03-191008				
	A9J0353-16	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-020SC-A-03-04-191008				
	A9J0353-30	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-033SC-A-04-05-191008				
	A9J0353-31	A Total Organic Carbon - Soil (5310 B)	11/27/19 08:40	5	5					PDI-033SC-A-05-06-191008				

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L221	11/30/23 ✓	Wet Chem Balance 3	A19K246	05/12/20 ✓	TOC 10k ppm secondary ✓			
A19F088	12/08/19 ✓	10% Phosphoric Acid						
A19J023	11/30/23 ✓	Wet Chem Balance 4						
A19J145	05/30/22 ✓	TOC Soil Blank Matrix ✓						
A19K369	11/27/24 ✓	VWR002V						

Prepared By: \_\_\_\_\_ Date \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_

Batch 911270

TOC PSEP preweigh

Analyst CMR

Date/Time:	11/27/19 9:19	11/27/19 15:00	11/27/19 1730		Effervesces?	Comments
T(°C) IN / OUT:	69.5, 68.3	69.8, 68.6	70.7, 68.2	1		
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no)	
A910890-03	7.5640 -	7.575	7.5652 -		NO	
9111270-DUP1	6.9787	6.9849	6.9795 -			
A910890-04	5.6629	5.6646 -				
A9J0033-16	4.9279 -	4.9316 -				
9111270-DUP2	4.4995 -	4.5026 -				
A9J0033-17	6.5103 -	4.5130 -				
A9J0033-26	8.9126 -	8.9194	8.9090 -			
A9J0033-27	6.8759 -	6.8727 -				
A9J0033-30	8.4256 -	8.4280 -				
A9J0033-39	6.5631 -	6.5643 -				
A9J0033-40	8.5319	8.5300 -				
A9J0096-01	8.1598 -	8.1657	8.1610 -			
9111270-DUP3	7.7943 -	7.8016	7.7926 -			
A9J0096-02	7.8357 -	7.8411	7.8319 -			
A9J0096-13	8.0810 -	8.0848 -				
A9J0096-14	6.6634	6.6712	6.6636 -			
A9J0353-07	6.1318 -	6.1377	6.1328 -			
9111270-DUP4	7.5256 -	7.5289 -				
A9J0353-08	6.2778 -	6.2843	6.2777 -			
A9J0353-15	9.9979 -	10.0063	9.9971 -			
A9J0353-16	6.3630 -	6.3696	6.3618 -			
A9J0353-30	7.3694 -	7.3779	7.3687 -			
A9J0353-31	8.0110 -	8.0186	8.0136 -			
					CMR 12/9/19	

In oven @ 17.10 11/26/19 @ 69.5°C  
CMR 11/26/19



ELEMENT SEQUENCE LOG

Apex Laboratories

DEC 05 2019

Sequence: 9L03043  
Date: 12/03/19 12:52

Instrument: TOC6  
Calibration: A9K2205

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L03043-CCV1	Solid	QC	QC				A19K337
2	9L03043-CCB1	Solid	QC	QC				
3	9111270-BLK1	Solid	QC	QC		9111270		
4	9111270-BS1	Solid	QC	QC		9111270		
5	A9I0890-03	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
6	9111270-DUP1	Solid	QC	QC		9111270		
7	A9I0890-04	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
8	A9J0033-16	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
9	9111270-DUP2	Solid	QC	QC		9111270		
10	A9J0033-17	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
11	A9J0033-26	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
12	A9J0033-27	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
13	9L03043-CCV2	Solid	QC	QC				A19K337
14	9L03043-CCB2	Solid	QC	QC				
15	A9J0033-30	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
16	A9J0033-39	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
17	A9J0033-40	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
18	A9J0096-01	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
19	9111270-DUP3	Solid	QC	QC		9111270		
20	A9J0096-02	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
21	A9J0096-13	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
22	A9J0096-14	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
23	A9J0353-07	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
24	9111270-DUP4	Solid	QC	QC		9111270		
25	9L03043-CCV3	Solid	QC	QC				A19K337
26	9L03043-CCB3	Solid	QC	QC				
27	9111270-DUP5	Solid	QC	QC		9111270		
28	A9J0353-08	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
29	A9J0353-15	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
30	A9J0353-16	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
31	A9J0353-30	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
32	A9J0353-31	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111270		
33	9111272-BLK1	Solid	QC	QC		9111272		
34	9111272-BS1	Solid	QC	QC		9111272		
35	A9J0360-01	Solid	Total Organic Carbon - Sediment (PSI (QC Source)			9111272		
36	"	Solid	Total Organic Carbon - Soil (5310 B)	"	12/11/19	9111272		
37	9111272-DUP1	Solid	QC	QC		9111272		
38	9L03043-CCV4	Solid	QC	QC				A19K337
39	9L03043-CCB4	Solid	QC	QC				
40	9111272-DUP2	Solid	QC	QC		9111272		
41	A9J0360-02	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
42	A9J0360-23	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
43	A9J0360-24	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
44	A9J0360-34	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
45	A9J0360-35	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/20	9111272		
46	A9J0360-55	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
47	A9J0360-56	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
48	A9J0463-01	Solid	Total Organic Carbon - Sediment (PSI (QC Source)			9111272		
49	"	Solid	Total Organic Carbon - Soil (5310 B)	"	12/11/19	9111272		
50	9111272-DUP3	Solid	QC	QC		9111272		
51	9L03043-CCV5	Solid	QC	QC				A19K337

Sequence:

9L03043

Instrument:

TOC6

Date:

12/03/19 12:52

Calibration:

A9K2205

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	9L03043-CCB5	Solid	QC	QC				
53	A9J0463-13	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
54	A9J0463-14	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
55	A9J0463-22	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
56	A9J0463-23	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
57	A9J0553-08	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
58	"	Solid	Total Organic Carbon - Sediment (PSF)	(QC Source)			9111272	
59	9111272-DUP4	Solid	QC	QC			9111272	
60	A9J0553-09	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
61	A9J0553-22	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
62	A9J0553-23	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
63	A9J0594-05	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
64	"	Solid	Total Organic Carbon - Sediment (PSF)	(QC Source)			9111272	
65	9L03043-CCV6	Solid	QC	QC				A19K337
66	9L03043-CCB6	Solid	QC	QC				
67	9111272-DUP5	Solid	QC	QC			9111272	
68	A9J0594-06	Solid	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/11/19	9111272		
69	A9J1075-06	Solid	Total Organic Carbon - Sediment (PSF)		12/05/19	9111272		
70	9111306-BLK1	Soil	QC	QC			9111306	
71	9111306-BLK2	Soil	QC	QC			9111306	
72	9111306-BLK3	Soil	QC	QC			9111306	
73	9111306-BLK4	Soil	QC	QC			9111306	
74	9111306-BS1	Soil	QC	QC			9111306	
75	A9K0531-02	Soil	Total Organic Carbon - Soil (5310 B)		12/03/19	9111306		
76	A9K0531-04	Soil	Total Organic Carbon - Soil (5310 B)		12/03/19	9111306		
77	9L03043-CCV7	Solid	QC	QC				A19K337
78	9L03043-CCB7	Solid	QC	QC				
79	9111306-DUP1	Soil	QC	QC			9111306	
80	9111306-DUP2	Soil	QC	QC			9111306	
81	A9K0598-02	Soil	Total Organic Carbon - Soil (5310 B)		12/05/19	9111306		
82	A9K0598-04	Soil	Total Organic Carbon - Soil (5310 B)		12/05/19	9111306		
83	A9K0598-06	Soil	Total Organic Carbon - Soil (5310 B)		12/05/19	9111306		
84	A9K0656-02	Soil	Total Organic Carbon - Soil (5310 B)		12/09/19	9111306		
85	A9K0656-04	Soil	Total Organic Carbon - Soil (5310 B)		12/09/19	9111306		
86	A9K0656-06	Soil	Total Organic Carbon - Soil (5310 B)		12/09/19	9111306		
87	9L03043-CCV8	Solid	QC	QC				A19K337
88	9L03043-CCB8	Solid	QC	QC				

Data Entered By: cur 12/4/19

Comments:

Data Reviewed By: cur 12/4/19

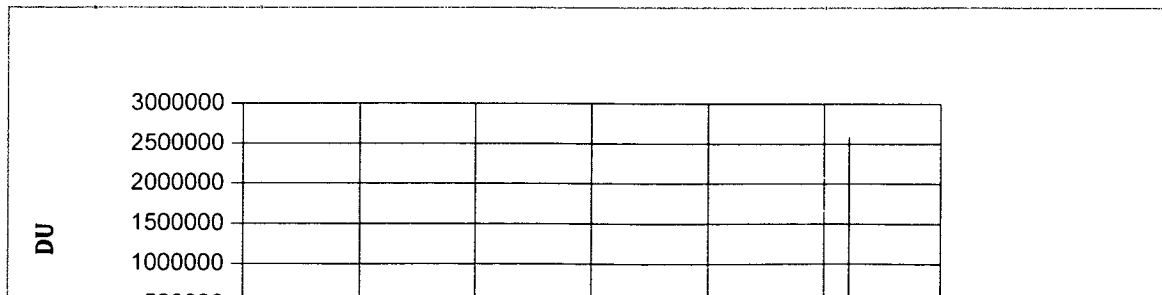
Method: TCDirect Run Start Time: 12/3/2019 5:27:56 P  
 Method Type: TC\_DIRECT Run End Time: 12/4/2019 9:08:09 A  
 Table: 9L03043 ✓ Device ID: TOC6  
 Analyst: Administrator Run Name: SN10020191203A1

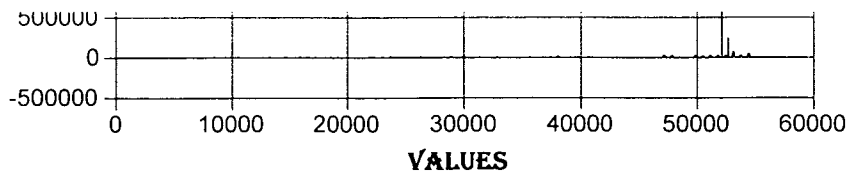
Cup Position	Sample ID	Weight ( mg )	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
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A2	blank	200	0	0	0	12/3/2019 5:39:24 PM
A1	9L03043-CCV1	200	10208.972	2.042	1000739.04	12/3/2019 5:50:18 PM
A2	9L03043-CCB1	200	76.805	0.015	7528.83	12/3/2019 6:01:05 PM
A3	9111270-BLK1	215.7	129.966 - B-02 12/4/19	0.028	13740.08	12/3/2019 6:11:52 PM
A4	9111270-BS1	200	10381.466	2.076	1017647.85	12/3/2019 6:22:39 PM
A5	A9I0890-03	40.1	12395.919	0.497	243630.66	12/3/2019 6:33:26 PM
A6	9111270-DUP1	40.8	9217.048	0.376	184315.07	12/3/2019 6:44:13 PM
A7	A9I0890-04	205.1	3932.858	0.807	395350.885	12/3/2019 6:55:00 PM
A8	A9J0033-16	53.2	8780.34	0.467	228945.34	12/3/2019 7:05:47 PM
A9	9111270-DUP2	55.2	11999.908	0.662	324657.79	12/3/2019 7:16:34 PM
A10	A9J0033-17	55.5	11454.59	0.636	311588.46	12/3/2019 7:27:21 PM
A11	A9J0033-26	62.5	4434.829	0.277	135851.92	12/3/2019 7:38:08 PM
A12	A9J0033-27	204.7	1156.641 B-02 12/4/19	0.237	116044.64	12/3/2019 7:48:55 PM
A13	9L03043-CCV2	200	10213.581	2.043	1001190.88	12/3/2019 7:59:43 PM
A98	9L03043-CCB2	200	79.224	0.016	7765.935	12/3/2019 8:10:30 PM
A14	A9J0033-30	202.9 -	232.93 B-02	0.047	23164.1	12/3/2019 8:21:31 PM
A15	A9J0033-39	203.9	2283.549	0.466	228210.88	12/3/2019 8:32:25 PM
A16	A9J0033-40	200	1436.727	0.287	140835.78	12/3/2019 8:43:12 PM
A17	A9J0096-01	205.3	4147.774	0.852	417361.93	12/3/2019 8:53:59 PM
A18	9111270-DUP3	204	7528.97	1.536	752791.255	12/3/2019 9:04:46 PM
A19	A9J0096-02	201.3 -	847.613 B-02 12/4/19	0.171	83627.73	12/3/2019 9:15:33 PM
A20	A9J0096-13	203.7	8825.184	1.798	881096.785	12/3/2019 9:26:20 PM
A21	A9J0096-14	206.9 -	791.183 B-02	0.164	80231.71	12/3/2019 9:37:07 PM
A22	A9J0353-07	102.9	35013.114	3.603	1765854.66	12/3/2019 9:47:54 PM
A23	9111270-DUP4	102	32323.565	3.297	1615951.27	12/3/2019 9:58:41 PM
A24	9L03043-CCV3	200	10346.498	2.069	1014220.08	12/3/2019 10:09:28 PM
A2	9L03043-CCB3	200	92.646	0.019	9081.62	12/3/2019 10:20:15 PM
A25	9111270-DUP5	100.6	21970.83	2.21	1083311.33	12/3/2019 10:31:09 PM
A26	A9J0353-08	199.4	22448.426	4.476	2193915.495	12/3/2019 10:42:04 PM
A27	A9J0353-15	205.8 ✓	994.653 B-02	0.205	100328.84	12/3/2019 10:52:50 PM
A28	A9J0353-16	202.9 ✓	338.406 L 12/4/19	0.069	33653.41	12/3/2019 11:03:38 PM
A29	A9J0353-30	203.3 ✓	730.427	0.148	72781.89	12/3/2019 11:14:25 PM



A30	A9J0353-31	205.3	285.174	802	0.059	28695.13	12/3/2019 11:25:12 PM
A31	9111272-BLK1	217	71.23		0.015	7575.82	12/3/2019 11:35:59 PM
A32	9111272-BS1	200	10183.974		2.037	998288.61	12/3/2019 11:46:46 PM
A33	A9J0360-01	102.9	41812.302		4.302	2108765.52	12/3/2019 11:57:34 PM
A34	9111272-DUP1	103.2	31932.664		3.295	1615190.25	12/4/2019 12:08:21 AM
A35	9L03043-CCV4	200	10368.562		2.074	1016382.93	12/4/2019 12:19:09 AM
A98	9L03043-CCB4	200	92.958		0.019	9112.26	12/4/2019 12:29:56 AM
A36	9111272-DUP2	101.4	33691.666		3.416	1674438.81	12/4/2019 12:40:57 AM
A37	A9J0360-02	203	1785.724		0.363	177672.14	12/4/2019 12:51:44 AM
A38	A9J0360-23	40.5	14652.011		0.593	290844.66	12/4/2019 1:02:32 AM
A39	A9J0360-24	55.5	18253.707		1.013	496538.47	12/4/2019 1:13:19 AM
A40	A9J0360-34	204.5	22343.761		4.569	2239537.98	12/4/2019 1:24:07 AM
A41	A9J0360-35	100.3	4490.871		0.45	220770.175	12/4/2019 1:34:54 AM
A42	A9J0360-55	31.7	21185.645		0.672	329162.07	12/4/2019 1:45:56 AM
A43	A9J0360-56	206.1	936.04		0.193	94554.3	12/4/2019 1:56:46 AM
A44	A9J0463-01	203.7	328.175		0.067	32764.59	12/4/2019 2:07:40 AM
A45	9111272-DUP3	204.4	345.862		0.071	34649.18	12/4/2019 2:18:35 AM
A46	9L03043-CCV5	200	10308.239		2.062	1010469.73	12/4/2019 2:29:29 AM
A2	9L03043-CCB5	200	55.793		0.011	5469.17	12/4/2019 2:40:23 AM
A47	A9J0463-13	203.7	316.548		0.064	31603.785	12/4/2019 2:51:17 AM
A48	A9J0463-14	206	425.917		0.088	43003.18	12/4/2019 3:02:12 AM
A49	A9J0463-22	55.8	13408.269		0.748	366704.08	12/4/2019 3:13:07 AM
A50	A9J0463-23	200.9	3656.98		0.735	360090.29	12/4/2019 3:24:02 AM
A51	A9J0553-08	9.8	49853.593		0.489	239459.12	12/4/2019 3:34:56 AM
A52	9111272-DUP4	8.4	54666.735		0.459	225066.71	12/4/2019 3:45:50 AM
A53	A9J0553-09	206.5	28803.533		5.948	2915242.35	12/4/2019 3:56:45 AM
A54	A9J0553-22	206.4	696.249		0.144	70434.09	12/4/2019 4:07:39 AM
A55	A9J0553-23	201	336.3		0.068	33130.82	12/4/2019 4:18:33 AM
A56	A9J0594-05	57.3	8181.159		0.469	229762.05	12/4/2019 4:29:28 AM
A57	9L03043-CCV6	200	10180.6		2.036	997957.84	12/4/2019 4:40:23 AM
A98	9L03043-CCB6	200	61.021		0.012	5981.6	12/4/2019 4:51:18 AM
A58	9111272-DUP5	58.2	5786.341		0.337	165057.73	12/4/2019 5:02:22 AM
A59	A9J0594-06	205.2	1733.477		0.356	174342.915	12/4/2019 5:13:18 AM
A60	A9J1075-06	40.4	5057.491		0.204	100144.085	12/4/2019 5:24:12 AM
A61	9111306-BLK1	216.4	53.39		0.012	5662.765	12/4/2019 5:35:01 AM
A62	9111306-BLK2	211.7	92.568		0.02	9604.825	12/4/2019 5:45:56 AM
A63	9111306-BLK3	212.1	205.953	} Grand Blanks done 12/14/19	0.044	21410.06	12/4/2019 5:56:45 AM
A64	9111306-BLK4	214.2	176.344		0.038	18513.51	12/4/2019 6:07:40 AM
A65	9111306-BS1	200	10308.188		2.062	1010464.755	12/4/2019 6:18:35 AM

A66	A9K0531-02	204.8	53163.18	AK-2	<u>10.888</u>	5336416.77	12/4/2019 6:29:29 AM
A67	A9K0531-04	201.2	42236.229	AK-2	8.498	4165066.645	12/4/2019 6:40:25 AM
A68	9L03043-CCV7	200	10539.439		2.108	1033133.21	12/4/2019 6:51:20 AM
A2	9L03043-CCB7	200	96.833		0.019	9492.08	12/4/2019 7:02:17 AM
A69	9111306-DUP1	202.3	42401.004		8.578	4204175.805	12/4/2019 7:13:12 AM
A70	9111306-DUP2	205.8	42647.503		8.777	4301776.255	12/4/2019 7:24:07 AM
A71	A9K0598-02	199.9	51141.467	RR-2	<u>10.223</u>	5010658.645	12/4/2019 7:35:03 AM
A72	A9K0598-04	203.4	38056.906		7.741	3793964.53	12/4/2019 7:46:05 AM
A73	A9K0598-06	202.5	75558.008	RR-2	<u>15.3</u>	7499190.22	12/4/2019 7:57:00 AM
A74	A9K0656-02	201.7	119030.793	L	<u>24.009</u>	11767225.25	12/4/2019 8:07:55 AM
A75	A9K0656-04	204.4	46635.993		9.532	4672087.41	12/4/2019 8:18:51 AM
A76	A9K0656-06	205.1	80368.533	RR-2	<u>16.484</u>	8079054.63	12/4/2019 8:29:47 AM
A77	9L03043-CCV8	200	10611.116		2.122	1040159.37	12/4/2019 8:40:43 AM
A98	9L03043-CCB8	200	115.574		0.023	11329.22	12/4/2019 8:51:38 AM





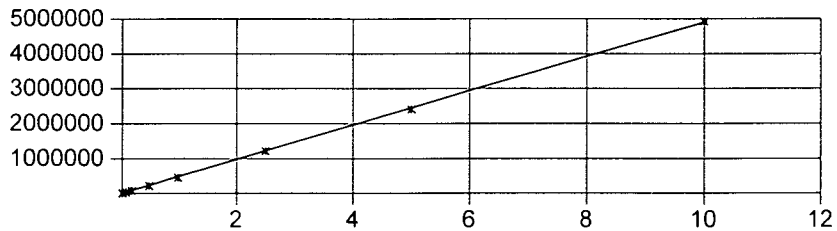
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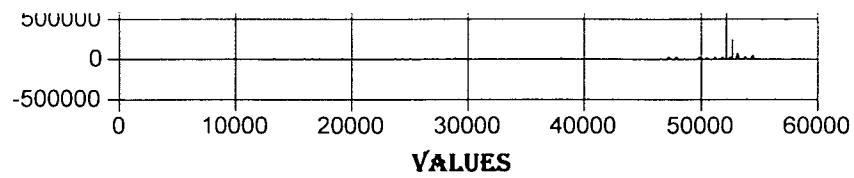
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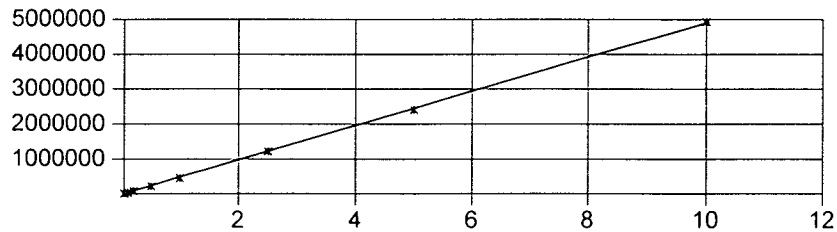
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**SNACCESS**

**RUN NAME : SN10020191122A1 METHOD NAME : TCDIRECT CALIBRATION TYPE : I**  
**ORDER FORCED THRO ZERO GROUP : 1**  
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**SQUARED = 0.99983314296849**



**Conventional Chemistry Parameters  
Benchsheet & Analysis Sequence Data**

Batch 9120591  
Sequence 9L12028 (A9I0890-17,18)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120591 (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	2-8	>11
	9120591-BLK1	QC	12/05/19 11:39	5	5									
	9120591-BS1	QC	12/05/19 11:39	5	5	A19K246		1						
	A9I0890-17	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-018SC-A-06-07-190926	MS/MSD			
	9120591-DUP1	QC	12/05/19 11:39	5	5		A9I0890-17							
	A9I0890-18	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-018SC-A-07-08-190926				
	A9I0890-18RE1	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-018SC-A-07-08-190926	Added 12/13/2019 by jkp			
	A9J0033-50	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-064SC-A-00-01-190929				
	9120591-DUP2	QC	12/05/19 11:39	5	5		A9J0033-50							
	A9J0033-51	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-064SC-A-01-02-190929				
	A9J0095-02	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-046SC-A-01-02-191001				
	9120591-DUP3	QC	12/05/19 11:39	5	5		A9J0095-02							
	A9J0095-02RE1	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-046SC-A-01-02-191001	Added 12/13/2019 by DAS			
	A9J0095-03	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-046SC-A-02-03-191001				
	A9J0095-14	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-047SC-A-01-02-191001				
	A9J0095-15	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-047SC-A-02-03-191001				
	A9J0095-32	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-071SC-A-08-09-191001				
	A9J0095-33	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-071SC-A-09-10-191001				
	A9J0096-23	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-042SC-A-01-02-190930				
	9120591-DUP4	QC	12/05/19 11:39	5	5		A9J0096-23							
	A9J0096-24	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-042SC-A-02-03-190930				
	A9J0096-34	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-044SC-A-00-01-190930				

*JKP*

*12-13-19*

*CRP 12/16/19*

Prepared By:

Date

Reviewed By:

Date

**Apex Laboratories**  
**PREPARATION BENCH SHEET**

**BATCH #: 9120591 (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	2-8	>11
	A9J0096-35	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-044SC-A-01-02-190930				
	A9J0353-41	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-043SC-A-02-03-191008				
	9120591-DUP5	QC	12/05/19 11:39	5	5		A9J0353-41							
	A9J0353-42	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-043SC-A-03-04-191008				
	A9J0463-39	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-045SC-A-02-03-191010				
	9120591-DUP6	QC	12/05/19 11:39	5	5		A9J0463-39							
	A9J0463-40	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-045SC-A-03-04-191010				
	A9J0463-57	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-067SC-A-04-05-191010				
	A9J0463-58	A Total Organic Carbon - Soil (5310 B)	12/05/19 11:39	5	5					PDI-067SC-A-05-06-191010				

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L221	11/30/23	Wet Chem Balance 3	A19K246	05/12/20	TOC 10k ppm secondary ✓			
A19F020	06/03/29	TOC Soil Drying Oven @70oC						
A19F088	12/08/19	10% Phosphoric Acid ✓						
A19J023	11/30/23	Wet Chem Balance 4						
A19J145	05/30/22	TOC Soil Blank Matrix						

Prepared By: Jkp Date: 12-13-19

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Batch 9120591

TOC PSEP preweigh

Analyst JKP

Date/Time:	12-6-19 @ 0832	12-6-19 @ 1028	12-6-19 @ 1538		Effervesces?	Comments
T(°C) IN/OUT:	71.3170.0	70.6169.8	71.8169.8	71.3172.0		
Sample ID	Wt 1(g)	Wt 2(g)	Wt 3(g)	Wt 4(g)	(yes/no) ✓	
- A9I0890-17	5.0278	5.0254			no	
- A9I0890-17DUP	3.9855	3.9790	3.9765		no	
- A9J0033-50	<del>8.3462</del>	5.7162			no	
- A9J0033-50DUP	<del>8.3462</del> JKP 12-6-19 6.6780	6.6722	6.6667	6.6746	no	
- A9J0033-51	6.6103	6.6031	6.6021		no	
- A9J0095-02	7.0251	7.0208			no	
- A9J0095-02DUP	6.0140	6.0089	6.0089		no	
- A9J0095-03	7.9861	7.9787	7.9690	7.9709	no	
- A9J0095-14	6.1777	6.1794			no	
- A9J0095-15	7.0766	7.0717			no	
- A9J0095-32	5.7730	5.7679	5.7545	5.7539	no	
- A9J0095-33	5.9793	5.9764			no	
- A9J0096-23	7.3355	7.3327			no	
- A9J0096-23DUP	7.5541	7.5489	7.5483		no	
- A9J0096-24	7.8557	7.8532			no	
- A9J0096-34	5.7759	5.7727			no	
- A9J0096-35	5.3869	5.3801	5.3821		no	
- A9J0353-41	5.4110	5.4066			no	
- A9J0353-41DUP	6.0165	6.0130			no	
- A9J0353-42	8.2619	8.2554	8.2533		no	
- A9J0463-39	7.5015	7.4908	7.4946		no	
- A9J0463-39DUP	6.8125	6.8058	6.8364	6.8012	no	
- A9J0463-40	7.3562	7.3523			no	
- A9J0463-57	5.0702	5.0669			no	
- A9J0463-58	7.1908	7.1876			no	
- A9I0890-18	8.3462	8.3352	8.3415	8.3367	no	

Jnl even on 12-5-19 @ 1139 JKP 12-6-19





# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **9L12028**  
Date: **12/12/19 09:52**

Instrument: **TOC**  
Calibration: **A8B0203 ✓**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9L12028-CCV1	Soil	QC	QC				A19K222 ✓
2	9L12028-CCB1	Soil	QC	QC				
3	9120591-BLK1	Soil	QC	QC		9120591		
4	9120591-BS1	Soil	QC	QC		9120591		
5	A9I0890-17	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
6	9120591-DUP1	Soil	QC	QC		9120591		
7	A9I0890-18	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
8	A9I0890-18RE1	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
9	9L12028-CCV2	Soil	QC	QC				A19K222 ✓
10	9L12028-CCB2	Soil	QC	QC				
11	9L12028-CCV3	Soil	QC	QC				A19K222 ✓
12	9L12028-CCB3	Soil	QC	QC				
13	A9J0033-50	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
14	9120591-DUP2	Soil	QC	QC		9120591		
15	A9J0033-51	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
16	A9J0095-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
17	9120591-DUP3	Soil	QC	QC		9120591		
18	A9J0095-02RE1	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
19	A9J0095-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
20	A9J0095-14	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	12/16/19	9120591		
21	9L12028-CCV4	Soil	QC	QC				A19K222 ✓
22	9L12028-CCB4	Soil	QC	QC				

Data Entered By: Jkp 12-13-19 Comments:

Data Reviewed By: AME 12/16/19  
01/30/20 Anchor QEA, LLC - Gasco PreRD\_DG 2019 - 4a-b. DOC-CAP Testing Cores Page 1043 of 1075

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
9L2028-CCV1	1	20	274.50	199.98	9,998.84	10,138	12/12/19 @ 10:30
	2	20	279.80	205.53	10,276.70		
9L2028-CCB1	1	100	0	5.15	51.53	52	12/12/19 @ 10:41
	2	100	0	5.15	51.53		
9120591-BLK1	1	97	2.981	7.95	81.93	76	12/12/19 @ 10:51
	2	97.5	2.691	7.68	78.74	RSD: 9.1%	
	3	93.4	1.327	6.4	68.55		
9120591-BS1	1	20.0	280.9	206.71	10,335.53	10,419	12/12/19 @ 10:59
	2	20.0	281.6	207.46	10,373.18	RSD: 1.1%	
	3	20.0	284.8	210.95	10,547.38		
A9I0890-17	1	14.2	531.3	801.43	56,438.83	56,183	12/12/19 @ 11:41
	2	13.4	519	751.83	56,106.77	RSD: 0.4%	
	3	14.2	529.8	795.24	56,002.81		
9120591-DUP1	1	12.3	523.7	770.47	62,639.91	57,947	12/12/19 @ 12:38
	2	12.5	507.1	706.33	56,506.39	RSD: 7.2%	
	3	10.9	475.3	596.16	54,693.96		
A9I0890-18	1	13.1	233.9	162.89	12,434.28	8,606	12/12/19 @ 13:00
	2	12.4	85.96	69.79	5,628.33	RSD: 40.5%	
	3	12.6	133.9	97.72	7,755.75		
A9I0890-18RE1	1	15.5	144.3	103.66	6,687.91	8,469	12/12/19 @ 13:34
	2	15.4	262.4	187.95	12,204.77	RSD: 88.2%	
	3	15.0	133.9	97.72	6,514.83		30.2% due 12/16/19
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
9L2028-CCV2	1	20.0	273.5	198.95	9,947.43	10,166	12/12/19 @ 13:52
	2	20.0	281.8	207.68	10,383.96		
9L2028-CCB2	1	100.0	0	5.15	51.53	52	12/12/19 @ 14:13
	2	100.0	0	5.15	51.53		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!	#DIV/0!	

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
9L12028-CCV3	1	20	281.90	207.79	10,389.36	10,285	12/12/19 @ 15:40
	2	20	278.00	203.63	10,181.31		
9L12028-CCB3	1	100	0.16	5.31	53.06	52	12/12/19 @ 15:58
	2	100	0	5.16	51.56		
A9J0033-50	1	13.3	420.000	440.66	33,131.97	35,431	12/12/19 @ 16:10
	2	15.6	484.900	627.72	40,238.68	RSD: 11.8%	
	3	15.4	445.500	507.02	32,923.36		
9120591-DUP2	1	16.0	468.2	573.73	35,858.39	33,497	12/12/19 @ 16:38
	2	17.4	469.2	576.85	33,152.14	RSD: 6.6%	
	3	17.3	458.6	544.61	31,480.14		
A9J0033-51	1	21.1	492.1	652.34	30,916.75	31,374	12/12/19 @ 17:05
	2	18.9	461.5	553.26	29,273.12	RSD: 7.5%	
	3	18.0	479.8	610.78	33,932.19		
A9J0095-02	1	71.3	172.8	120.44	1,689.14	2,305	12/12/19 @ 17:30
	2	67.9	189.1	130.65	1,924.19	RSD: 37.8%	
	3	73.2	310.6	241.73	3,302.34		
9120591-DUP3	1	68.2	106.7	82.14	1,204.44	1,299	12/12/19 @ 18:00
	2	73.2	106.7	82.14	1,122.17	RSD: 18.4%	
	3	78.2	176.7	122.83	1,570.68		
A9J0095-02RE1	1	75.8	225.1	155.95	2,057.43	1,804	12/12/19 @ 18:20
	2	71.2	167	116.93	1,642.29	RSD: 12.3%	
	3	80.0	198.6	136.92	1,711.44		
A9J0095-03	1	92.9	53.91	48.9	526.36	556	12/12/19 @ 18:44
	2	96.5	56.41	50.64	524.72	RSD: 9.4%	
	3	97.2	70.26	59.9	616.26		

TOC Data

Sample ID (Reporting Levels based on lowest amount used.)	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
A9J0095-14	1	15.1	358.8	314.12	20,802.59	18,115	12/12/19 @ 19:10
	2	12.6	280.3	206.07	16,354.59	RSD: 13.1%	
	3	13.5	302.9	232.02	17,186.70		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
9L12028-CCV4	1	20.0	257	182.87	9,143.48	9,109	12/12/19 @ 19:39
	2	20.0	255.5	181.49	9,074.34		
9L12028-CCB4	1	100.0	0	5.15	51.53	52	12/12/19 @ 20:01
	2	100.0		5.15	51.53		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		
Sample ID	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	3			5.15	#DIV/0!		

Sequence 9L12028  
 Batch 9120591

TOC Soil data log

Date/Time 12-12-19  
 Analyst JLP/AM

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		
9L12028 -CCV1	20	274.5		12-12-19 @ 1030
	20	279.8		
9L12028 -CCB1	100	0		1041
	100	0		
9120591 -BLK1	97.0	2.981		1051
	97.5	2.691		
	93.4	1.327		
9120591 -BS1	20	280.9	Time Out	1059
	20	281.6	Time Out	
	20	284.8		
AS10890 -17	14.2	531.3		1141
	13.4	519		
	14.2	529.8	Time Out	
9120591 -DUPI	12.3	523.7		1238
	12.5	507.1		
	10.9	475.3		
AS10890 -18	13.1	233.9		1300
	12.4	85.96		
	12.6	133.9		
AS10890 -18 RE1 AS10895 -50	15.5	144.3		1334
	15.4	262.4		
	15.0	133.9		

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		
9L12028 -CCV2 9120591 JLP 12-12-19 DUPI	20	273.5		12-12-19 @ 1352
	20	281.8		
9L12028 -CCB2 AS10893 JLP 12-12-19 51	100	0		1413
	100	0		
9L12028 -CCV3	100	281.9		1540
	20	278.0		
	20	278.0		
9L12028 -CCB3	2/100	0.162		1558
	12/12/19 1/100	0.003		
	1/100	0.003		
9950033-50	49.7/133	727.4/420		1610
	15.6	484.9	Time out	
	15.4	445.5		
9120591-DUPI	16.0	468.2		1638
	17.4	469.2		
	17.3	458.6		
9950033-51 995	21.1	492.1		1705
	18.9	461.5		
	18.0	479.8		
9950095-02	19.6/71.3	7.7/172.8		1730
	67.9	189.1		
	73.2	310.6		

\*\*Sample mass input into instrument as 1000 mg to output actual ug C

Sequence 9412028  
 Batch 9120591

TOC Soil data log

Date/Time 12/12/19 1800  
 Analyst CMT

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		
A950095-02 DUP	68.2	106.7		12/12/19 1800
9120591-00B2	73.2	106.7		
	78.2	176.7		
A950095-02RE1	75.8	225.1	-02 > 30% RSD	1820
	71.2	167.0		
	80.0	198.6		
A950095-03	<del>21.8</del> 42.8 96.5	<del>(42.0)</del> (17.8) 56.41	92.9 53.91	1844
	43.8	56.41		
	98.5	70.26		
A950095-14	15.1	358.8		1910
	12.6	280.3		
(spilled) 12.7	13.5	302.9		
9412028-004	20	257	Time out	1939
	20	255.5		
9412028-004	100	0		2001
	100	0		

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments	Date and Time
	Wt2(mg or ul)**	raw TOC (ug)		
	Wt3(mg or ul)**	raw TOC (ug)		

\*\*Sample mass input into instrument as 1000 mg to output actual ug C

**Conventional Chemistry Parameters  
Calibration Data**

Sequence 8B02022 (Cal ID A8B0203) TOC  
Sequence 9K22043 (Cal ID A9K2205) TOC6



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:

**8B02022**

Instrument:

**TOC**

Date:

**02/02/18 10:15**

Calibration:

**A8B0203**

---

<u>Order</u>	<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	8B02022-CAL1	Soil	QC	QC				
2	8B02022-CAL2	Soil	QC	QC				A18B030
3	8B02022-CAL3	Soil	QC	QC				A18B029
4	8B02022-CAL4	Soil	QC	QC				A18B028
5	8B02022-CAL5	Soil	QC	QC				A18B027
6	8B02022-CAL6	Soil	QC	QC				A18B026
7	8B02022-CAL7	Soil	QC	QC				A18B025
8	8B02022-CAL8	Soil	QC	QC				A18B024
9	8B02022-CAL9	Soil	QC	QC				A18B023
10	8B02022-CALA	Soil	QC	QC				A18B022
11	8B02022-CALB	Soil	QC	QC				A18B021
12	8B02022-ICV1	Soil	QC	QC				A18B031
13	8B02022-ICB1	Soil	QC	QC				
14	8B02022-ICV2	Soil	QC	QC				
15	8B02022-ICB2	Soil	QC	QC				A18B031

Data Entered By:

JKP 2-2-18

Comments:

Data Reviewed By:

JCS 2/14/18

2/2/2018

5:40:11PM

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!		
8B02022-CAL1	1	20	1.847	6.89	344.50	323	
	2	20	1.106	6.2	309.77		
	3	20	1.192	6.28	313.81		
8B02022-CAL2	1	20.0	14.4	18.2	909.78		
	2	20.0	16.65	20.13	1,006.70		
	3	20.0	15.74	19.35	967.66		
8B02022-CAL3	1	20.0	44.37	42.07	2,103.69		
	2	20.0	48.3	44.93	2,246.27		
	3	20.0	47.81	44.57	2,228.65		
8B02022-CAL4	1	20.0	123.9	92.03	4,601.40		
	2	20.0	131.8	96.53	4,826.34		
	3	20.0	132.4	96.87	4,843.42		
8B02022-CAL5	1	20.0	278.8	204.47	10,223.57		
	2	20.0	287.6	214.05	10,702.70		
	3	20.0	284.1	210.18	10,508.98		
8B02022-CAL6	1	20.0	350.7	300.44	15,022.06		
	2	20.0	345	291.2	14,560.12		
	3	20.0	361	317.95	15,897.40		
8B02022-CAL7	1	20.0	399.1	392.54	19,626.76		
	2	20.0	402.2	399.33	19,966.67		
	3	20.0	410.3	417.65	20,882.38		

TOC Data

Sample ID	Rep #	Amount (mg or ul)	instrument response (ug C)	Calculated ug C	TOC (mg/kg or mg/l)	Average TOC (mg/kg or mg/l)	Date and Time
8B02022-CALB	1	20.0	437.8	486.05	24,302.72		
	2	20.0	440.9	494.4	24,719.83		
	3	20.0	437.4	484.99	24,249.38		
8B02022-CALG	1	20.0	473.2	589.45	29,472.51		
	2	20.0	473.6	590.72	29,536.19		
	3	20.0	479.7	610.45	30,522.56		
8B02022-CALA	1	20.0	503.7	693.77	34,688.41		
	2	20.0	504.4	696.34	34,816.94		
	3	20.0	504.6	697.07	34,853.73		
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
	1			5.15	#DIV/0!	#DIV/0!	
	2			5.15	#DIV/0!	#DIV/0!	
8B02022-CALB	1	20	529.100	792.36	39,618.21		
	2	20	532.500	806.41	40,320.67		
	3	20	537.600	827.87	41,393.75		
8B02022-ICV1	1	20.0	298.2	226.32	11,315.89	11,747	
	2	20.0	312	243.55	12,177.38		
	3			5.15	#DIV/0!		
8B022-ICB1	1	20.0	0	5.15	257.64	258	
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		
8B02022-ICV2	1	20.0	277.9	203.52	10,176.04		
	2	20.0	287.2	213.61	10,680.34		
	3			5.15	#DIV/0!		
8B02022-ICB2	1	20.0	0	5.15	257.64		
	2	20.0	0	5.15	257.64		
	3			5.15	#DIV/0!		

⇒ ICB1 failed high. Re-prepped and re-analyzed below as ICB2. JKP2-2-18

Sequence 8B02022  
 Batch \_\_\_\_\_

TOC Soil data log

Date/Time 2-2-18 @ 1735  
 Analyst JKP JKP

2-2-18

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments
	Wt2(mg or ul)**	raw TOC (ug)	
	Wt3(mg or ul)**	raw TOC (ug)	
8B02022-Cal1	20	1.847	
	20	1.106	
	20	1.192	
8B02022-Cal2	20	14.4	Time Out
	20	16.65	
	20	15.74	
8B02022-Cal3	20	44.37	
	20	48.3	
	20	47.81	
8B02022-Cal4	20	123.9	Time Out
	20	131.8	
	20	132.4	
8B02022-Cal5	20	278.8	
	20	287.6	
	20	284.1	
8B02022-Cal6	20	350.7	Time Out
	20	345	
	20	361	
8B02022-Cal7	20	399.1	Time Out
	20	402.2	
	20	410.3	
8B02022-Cal8	20	437.8	Time Out
	20	440.9	
	20	437.4	

Sample ID	Wt1(mg or ul)**	raw TOC (ug)	Comments
	Wt2(mg or ul)**	raw TOC (ug)	
	Wt3(mg or ul)**	raw TOC (ug)	
8B02022-Cal9	20	473.2	Time Out
	20	473.6	
	20	479.7	
8B02022-Cal10 A JKP 2-2-18	20	503.7	Time Out
	20	504.4	
	20	504.6	
8B02022-Cal11 B JKP 2-2-18	20	529.1	Time Out
	20	532.5	
	20	537.6	
8B02022-ICV1 JKP 2-2-18	20	298.2	Time Out
	20	312	
	20		
8B02022-ICB1 JKP 2-2-18	20	0	
	20	0	
	20		
8B02022-ICV2	20	277.9	Time Out
	20	287.2	
8B02022-ICB2	20	0	
	20	0	

3 ICV1 failed high. Re-prepped and re-analyzed as ICB2 as ICB2 JKP 2-2-18

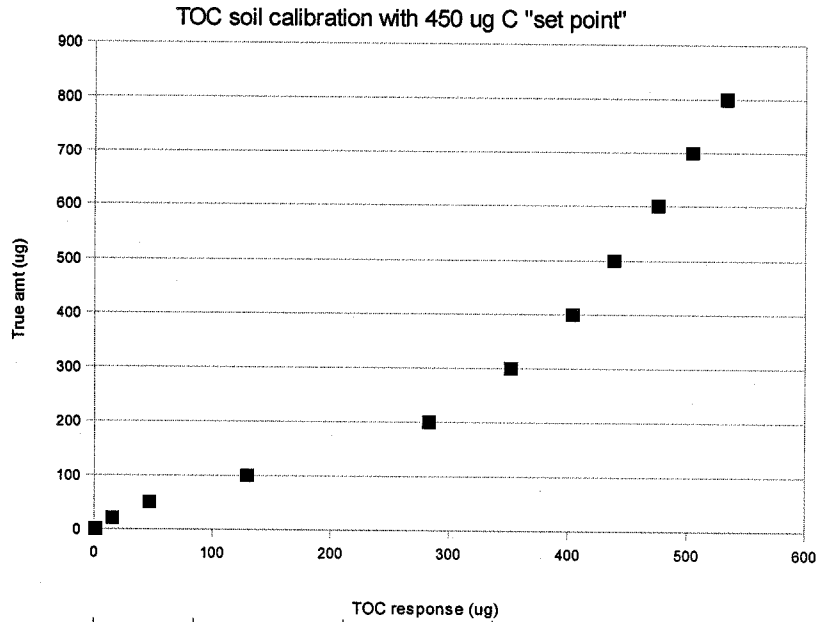
\*\*Sample mass input into instrument as 1000 mg to output actual ug C

Data Entry

Cal Standard	Instrument Reponse	Average Instrument Response
1	1.85	1.38
	1.11	
	1.19	
2	14.4	15.6
	16.65	
	15.74	
3	44.37	46.83
	48.3	
	47.81	
4	123.9	129.37
	131.8	
	132.4	
5	278.8	283.5
	287.6	
	284.1	
6	350.7	352.23
	345	
	361	
7	399.1	403.87
	402.2	
	410.3	
8	437.8	438.7
	440.9	
	437.4	
9	473.2	475.5
	473.6	
	479.7	
10	503.7	504.23
	504.4	
	504.6	
11	529.1	533.07
	532.5	
	537.6	

450 ug curve

TOC resp ug C	True ug C
533.07	800
504.23	700
475.5	600
438.7	500
403.87	400
352.23	300
283.5	200
129.37	100
46.83	50
15.6	20
1.38	0



TOC resp ug (Requant	% recovery
533.07	101.1
504.23	99.39
475.5	99.47
438.7	97.69
403.87	100.76
352.23	100.99
283.5	104.76
129.37	95.14
46.83	87.73
15.6	96.15
1.38	N/A

X (response)	X^2	X^3	y (ug C)	curve calculations			
533.07	284160.07	151476261.9	800	0.00000740	-0.00289199	0.94586231	5.15285875
504.23	254251.25	128201957.5	700	0	0	0.14	5.96
475.5	226100.25	107510668.9	600	0.99945	8.03	#N/A	#N/A
438.7	192457.69	84431188.6	500	4233.13	7	#N/A	#N/A
403.87	163108.28	65873999.14	400	818003.66	450.89	#N/A	#N/A
352.23	124068.32	43700998.31	300				
283.5	80372.25	22785532.88	200				
129.37	16735.73	2165046.18	100				
46.83	2192.74	102678.55	50				
15.6	243.26	3793.98	20				
1.38	1.91	2.64	0				

**Conventional Chemistry Parameters  
Calibration Data**

Sequence 9K22043 (Cal ID A9K2205) TOC6



ELEMENT SEQUENCE LOG  
Apex Laboratories

NOV 25 2019

Sequence: 9K22043  
Date: 11/22/19 16:01

Instrument: TOC6  
Calibration: A9K2205

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	9K22043-CAL1	Sediment	QC	QC				
2	9K22043-CAL2	Sediment	QC	QC				A19K236
3	9K22043-CAL3	Sediment	QC	QC				A19K238
4	9K22043-CAL4	Sediment	QC	QC				A19K240
5	9K22043-CAL5	Sediment	QC	QC				A19K241
6	9K22043-CAL6	Sediment	QC	QC				A19K242
7	9K22043-CAL7	Sediment	QC	QC				A19K243
8	9K22043-CAL8	Sediment	QC	QC				A19K244
9	9K22043-CAL9	Sediment	QC	QC				A19K245
10	9K22043-ICV1	Sediment	QC	QC				A19K246
11	9K22043-ICB1	Sediment	QC	QC				

Data Entered By: *CMW* 11/23/19  
Data Reviewed By: *AMF* 11/25/19

Comments: *SKalar Run FOS V10020191122A1*  
*CMW*  
*11/23/19*

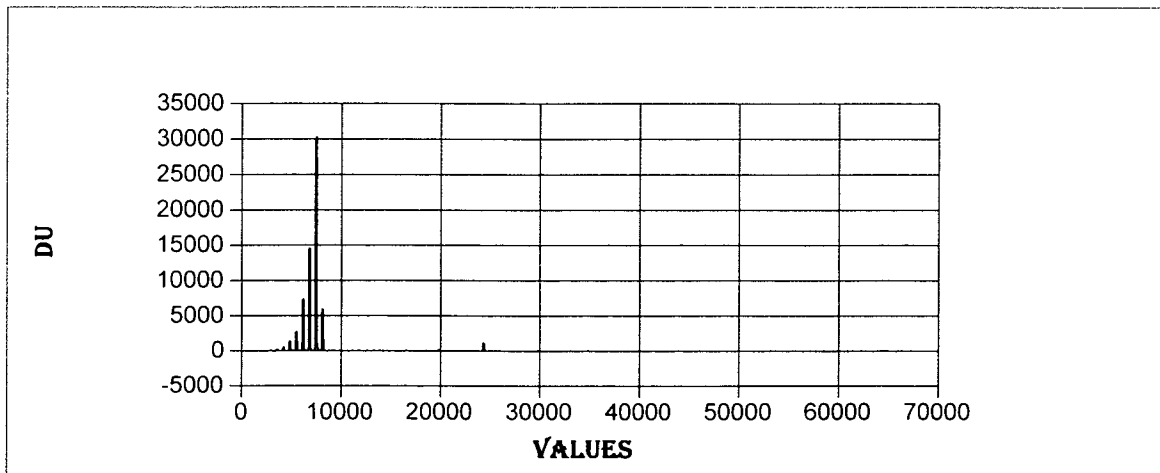


Method: TCDirect Run Start Time: 11/22/2019 4:08:42  
 Method Type: TC\_DIRECT Run End Time: 11/23/2019 10:36:37  
 Table: 9K22043 ✓ Device ID: TOC6  
 Analyst: Administrator Run Name: SN10020191122A1

Cup Position	Sample ID	Weight ( mg )	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A98	manipulator	1	6826.146	0.007	3345.68	11/22/2019 4:09:05 PM
A11	manipulator	200	0	0	0	11/22/2019 4:20:06 PM
A1	9K22043-IBL1	200	0	0	0	11/22/2019 4:31:00 PM
A1	9K22043-CAL1	200	0	0	0	11/22/2019 4:41:54 PM
A2	9K22043-CAL2	40	950.655	0.038	18637.67	11/22/2019 4:52:41 PM
A3	9K22043-CAL3	100	929.692	0.093	45566.755	11/22/2019 5:03:28 PM
A4	9K22043-CAL4	200	948.399	0.19	92967.235	11/22/2019 5:14:15 PM
A5	9K22043-CAL5	50	9627.623	0.481	235938.015	11/22/2019 5:25:02 PM
A6	9K22043-CAL6	100	9414.144	0.941	461412.825	11/22/2019 5:35:49 PM
A7	9K22043-CAL7	250	10008.155	2.502	1226317.36	11/22/2019 5:46:35 PM
A8	9K22043-CAL8	500	9822.41	4.911	2407115.24	11/22/2019 5:57:21 PM
A9	9K22043-CAL9	1000	10050.962	10.051	4926250.29	11/22/2019 6:08:08 PM
A10	9K22043-ICV1	200	10072.392 ✓	2.014	987350.73	11/22/2019 6:18:55 PM
A11	9K22043-ICB1	200	78.802 ✓	0.016	7724.565	11/22/2019 6:29:42 PM
A1	clean1	200	40.594	0.008	3979.25	11/22/2019 6:40:29 PM
A2	clean2	200	26.416	0.005	2589.43	11/22/2019 6:51:23 PM
A3	clean3	200	0	0	0	11/22/2019 7:02:10 PM
A4	clean4	200	0	0	0	11/22/2019 7:12:57 PM
A5	clean5	200	22.294	0.004	2185.37	11/22/2019 7:23:50 PM
A6	clean6	200	53.618	0.011	5255.91	11/22/2019 7:34:37 PM
A7	clean7	200	51.41	0.01	5039.51	11/22/2019 7:45:24 PM
A8	clean8	200	36.846	0.007	3611.845	11/22/2019 7:56:11 PM
A9	clean9	200	37.365	0.007	3662.725	11/22/2019 8:06:58 PM
A10	clean10	200	0	0	0	11/22/2019 8:17:45 PM
A11	clean11	200	0	0	0	11/22/2019 8:28:32 PM
A12	clean12	200	43.296	0.009	4244.13	11/22/2019 8:39:19 PM
A13	clean13	200	50.906	0.01	4990.13	11/22/2019 8:50:06 PM
A14	clean14	200	36.751	0.007	3602.53	11/22/2019 9:00:53 PM
A15	clean15	200	36.139	0.007	3542.545	11/22/2019 9:11:41 PM
A16	clean16	200	53.328	0.011	5227.52	11/22/2019 9:22:28 PM
A17	clean17	200	307.149	0.061	30108.44	11/22/2019 9:33:15 PM
A18	clean18	200	40.788	0.008	3998.24	11/22/2019 9:44:08 PM
A19	clean19	200	38.668	0.008	3790.45	11/22/2019 9:54:58 PM

Handwritten notes in the table:  
 Next to A2: 0.0002 = 190  
 Next to A3: 465  
 Next to A4: 950  
 Next to A5: 2405  
 Next to A6: 4705  
 Next to A7: 12510  
 Next to A8: 24555  
 Next to A9: 50255  
 Next to A10: CM  
 Next to A11: 11/23/19

A20	clean20	200	26.556	0.005	2603.14	11/22/2019 10:05:46 PM
A21	clean21	200	31.269	0.006	3065.2	11/22/2019 10:16:33 PM
A22	clean22	200	31.132	0.006	3051.7	11/22/2019 10:27:24 PM
A23	clean23	200	83.396	0.017	8174.96	11/22/2019 10:38:13 PM
A24	clean24	200	2014.222	0.403	197445	11/22/2019 10:49:01 PM
A25	clean25	200	49.354	0.01	4837.93	11/22/2019 10:59:47 PM
A26	clean26	200	55.138	0.011	5404.93	11/22/2019 11:10:37 PM
A27	clean27	200	0	0	0	11/22/2019 11:21:23 PM

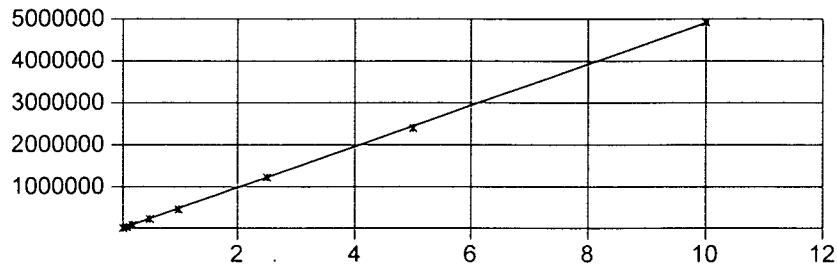


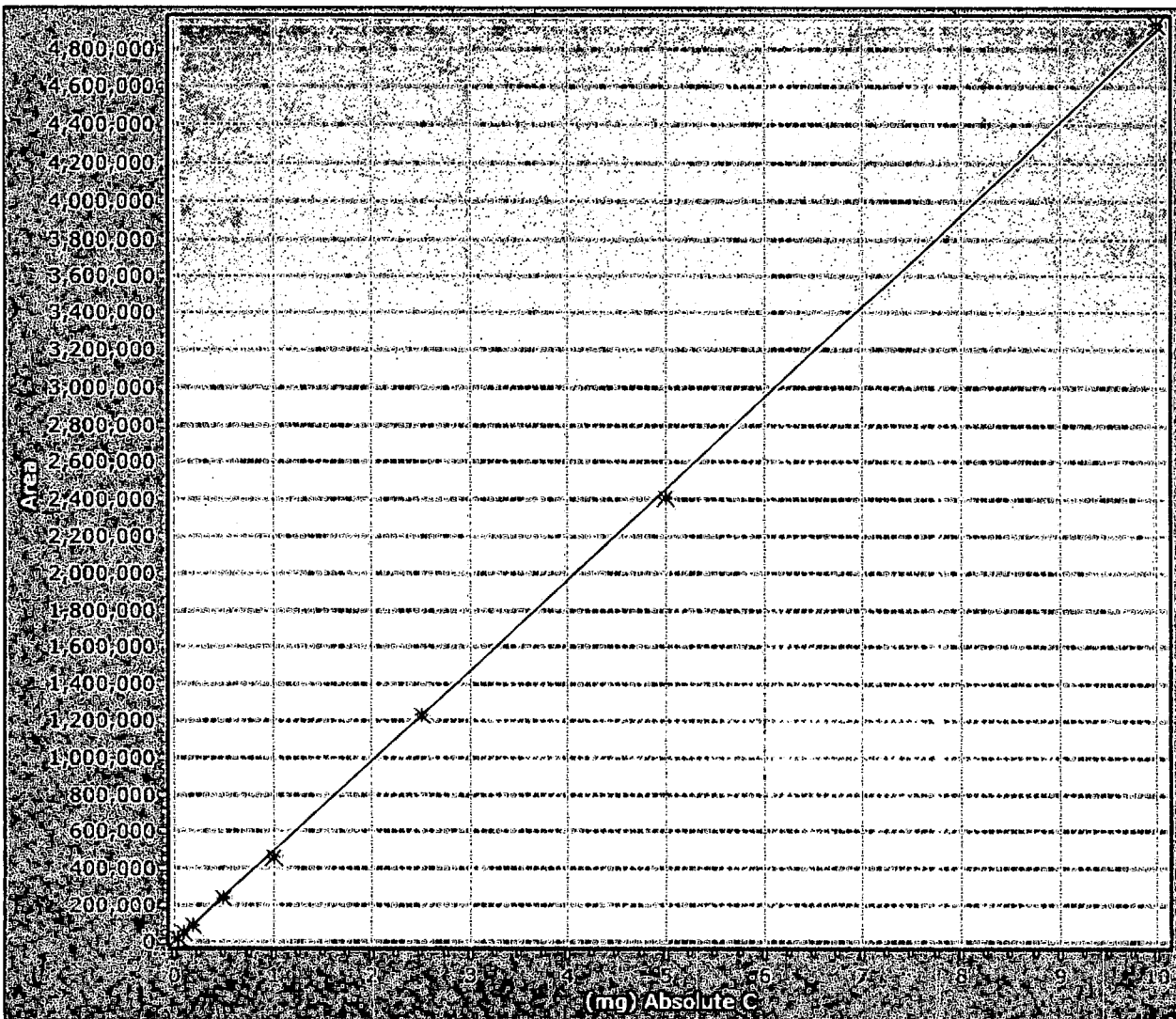
**SNACCESS**

**METHOD NAME : TCDIRECT CALIBRATION TYPE : 1 ORDER FORCED THRO ZERO GROUP : 1**

**A = 0.0000000000000000 B = 490127.24072587600000 R = 0.99993612663687 R-**

**SQUARED = 0.99983314296849 ✓**





Method Name	: TCDirect	a	= 0.00000000000000
Calibration Type	: 1 Order Forced thro Zero	b	= 490127.24072587600000
Group	: 1		
r	= 0.99993612663687		
R-Squared	= 0.99983314296849		

## Element Calibration Review Sheet

Calibration ID: **A9K2205**

Instrument: **TOC6**

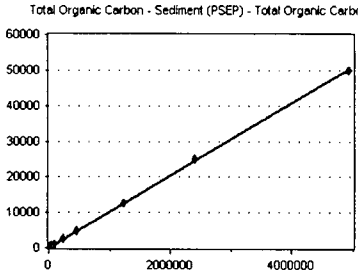
Calibration Date: **11/22/2019**

Analysis: **Total Organic Carbon - Sedi**

Instrument Cal ID: **A9K2205**

### Total Organic Carbon

Curve Fit: **LINEAR: Weighting: None, Origin: Ignore**



Response

	<u>Standard Concentration</u>	<u>Response</u>	<u>Factor</u>	<u>RT</u>
9K22043-CAL2	200	18637.67	93.188	0.00
9K22043-CAL3	500	45566.75	91.134	0.00
9K22043-CAL4	1000	92967.23	92.967	0.00
9K22043-CAL5	2500	235938	94.375	0.00
9K22043-CAL6	5000	461412.8	92.283	0.00
9K22043-CAL7	12500	1226317	98.105	0.00
9K22043-CAL8	25000	2407115	96.285	0.00
9K22043-CAL9	50000	4926251	98.525	0.00

AVE RF    **94.608**            RF RSD    **2.90**            AVE RT    **0.00**

## Element Calibration Review Sheet

Calibration ID: **A9K2205**

Instrument: **TOC6**

Calibration Date:

**11/22/2019**

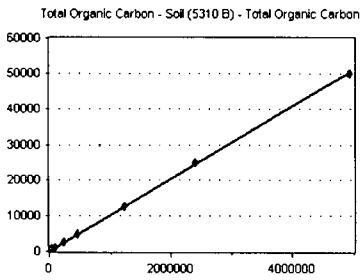
Analysis: **Total Organic Carbon - Soil**

Instrument Cal ID: **A9K2205**

### Total Organic Carbon

Curve Fit: **LINEAR: Weighting: None, Origin: Ignore**

Response



<u>Standard</u>	<u>Concentration</u>	<u>Response</u>	<u>Factor</u>	<u>RT</u>
9K22043-CAL2	200	18637.67	93.188	0.00
9K22043-CAL3	500	45566.75	91.134	0.00
9K22043-CAL4	1000	92967.23	92.967	0.00
9K22043-CAL5	2500	235938	94.375	0.00
9K22043-CAL6	5000	461412.8	92.283	0.00
9K22043-CAL7	12500	1226317	98.105	0.00
9K22043-CAL8	25000	2407115	96.285	0.00
9K22043-CAL9	50000	4926251	98.525	0.00

<u>AVE RF</u>	<b><u>94.608</u></b>	<u>RF RSD</u>	<b><u>2.90</u></b>	<u>AVE RT</u>	<b><u>0.00</u></b>
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## Element Calibration Review Sheet

Calibration ID: **A9K2205**

Instrument: **TOC6**

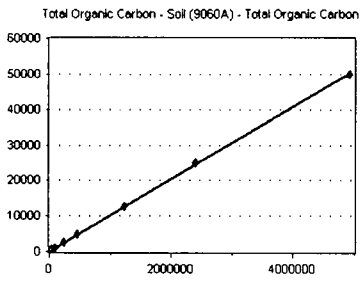
Calibration Date: **11/22/2019**

Analysis: **Total Organic Carbon - Soil**

Instrument Cal ID: **A9K2205**

### Total Organic Carbon

Curve Fit: **LINEAR: Weighting: None, Origin: Ignore**



<u>Response</u>	
<u>Factor</u>	<u>RT</u>
93.188	0.00
91.134	0.00
92.967	0.00
94.375	0.00
92.283	0.00
98.105	0.00
96.285	0.00
98.525	0.00

<u>Standard</u>	<u>Concentration</u>	<u>Response</u>
9K22043-CAL2	200	18637.67
9K22043-CAL3	500	45566.75
9K22043-CAL4	1000	92967.23
9K22043-CAL5	2500	235938
9K22043-CAL6	5000	461412.8
9K22043-CAL7	12500	1226317
9K22043-CAL8	25000	2407115
9K22043-CAL9	50000	4926251

AVE RF    **94.608**            RF RSD    **2.90**            AVE RT    **0.00**

**Total Solids by SM2540/PSEP  
Benchsheet Data**

Batch 9111229 (A9I0890-03,04)

Batch 9120500 (A9I0890-17,18)





Apex Laboratories  
PREPARATION BENCH SHEET

**Percent Solids + Dry Weight Worksheet**

**BATCH #: 9120500 (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
910890-17	Dry Weight		12/06/19 17:00		1.25	26.27	14.74	53.9	Use Results from TS.. Make NR once completed.
910890-17	Solids, Total (SM 254		12/06/19 17:00		1.25	26.27	14.74	53.9	Use Results for Dry Weight (Not for Waters)
120500-DUP1	QC	A910890-17	12/06/19 17:00		1.265	27.675	15.54	54.1	
910890-18	Dry Weight		12/06/19 17:00		1.26	26.66	21.07	78.0	Use Results from TS.. Make NR once completed.
910890-18	Solids, Total (SM 254		12/06/19 17:00		1.26	26.66	21.07	78.0	Use Results for Dry Weight (Not for Waters)

NRP  
Prepared By: \_\_\_\_\_  
Date: 12/19/19

James S. Johnson  
Reviewed By: \_\_\_\_\_  
Date: 12/10/19

Batch #: 9120500

### Total Solids Worksheet

Date: 12/4/2019

Analyst: nrp

Method: SM 2540 G

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g)			Comments
				1 <sup>st</sup> weighing	2nd Weighing	3rd Weighing	
A9I0890-17	1.250	890-17	26.270	14.740	14.755		
9120500-DUP1	1.265	890-17Dup	27.675	15.540	15.550		source: A9I0890-17
A9I0890-18	1.260	890-18	26.660	21.070	21.075		
Date/time first in oven: 12/6/19@18:20		<b>Oven temp. (°C; in/out):</b> 104.1/103.7		104.1/103.7	103.3/103.1	/	
		<b>Time of weighing:</b>		12/9@10:10	12/9@16:50		

**Percent Solids + Dry Weight Worksheet**

**BATCH #: 911229 (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
A910890-03	Dry Weight		11/26/19 12:48		1.26	27.421	24.11	87.3	Use Results from TS.. Make NR once completed.
A910890-03	Solids, Total (SM 254		11/26/19 12:48		1.26	27.421	24.11	87.3	Use Results for Dry Weight (Not for Waters)
911229-DUPI	QC	A910890-03	11/26/19 12:48		1.251	28.184	24.7	87.1	
A910890-04	Dry Weight		11/26/19 12:48		1.264	28.079	22.56	79.4	Use Results from TS.. Make NR once completed.
A910890-04	Solids, Total (SM 254		11/26/19 12:48		1.264	28.079	22.56	79.4	Use Results for Dry Weight (Not for Waters)

Prepared By: NRP Date: 12/2/19

Reviewed By: James S. Johnson Date: 12/02/19

Batch #: 9111229

# Total Solids Worksheet

Date: 11/26/2019

Analyst: nrp

Method: SM 2540 G

Sample ID	Tare Wt. (g)	Vessel ID	Initial (wet) Wt. (g)	Final Weight (g)			Comments
				1 <sup>st</sup> weighing	2nd Weighing	3rd Weighing	
A9I0890-03	1.260	890-03	27.421	24.120	24.110		
9111229-DUP1	1.251	890-03DUP	28.184	24.710	24.700		source: A9I0890-03
A9I0890-04	1.264	890-04	28.079	22.560	22.560		
Date/time first in oven: 11/26/19@16:30		<b>Oven temp. (°C; in/out):</b>		104.1/105	103.3/103.3	/	
		<b>Time of weighing:</b>		11/27@11:30	11/27@18:40		

## **Balance Checksheets**

Extractions November 2019  
Extractions December 2019  
Wet Chem November 2019  
Wet Chem December 2019

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: NOV  
 Year: 2019

Alternate Weight/ID used: \_\_\_\_\_  
 Date Range: \_\_\_\_\_

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2							
3							
4	9:59 MRE		99.9986		0.1001		0.0050
5	10:20 MRF		99.9989		0.1000		0.0050
6	10:10 WVD		99.9986		0.0999		0.0050
7	10:49 MRE		99.9981		0.1000		0.0051
8	08:45 WVD		99.9987		0.1000		0.0051
9							
10							
11	7:55 MRF		99.9994		0.1001		0.0050
12	8:00 MRF		99.9993		0.1000		0.0051
13	9:46 MRE		99.9997		0.1002		0.0051
14	08:27 CMA		99.9995		0.0998		0.0048
15	06:13 JEP		100.0002		0.1001		0.0050
16		100.0000g		0.1000g		0.0050g	
17					0.1000		
18	9:25 MRF		100.0011		0.1000		0.0050
19	7:42 MRF		100.0014		0.0999		0.0049
20	10:30 MRF		100.0012		0.1000		0.0050
21	11:00 MRF		100.0011		0.1001		0.0049
22							
23							
24	12						
25	14:22 MRF		100.0017		0.1000		0.0051
26	7:35 MRE		100.0002		0.1000		0.0050
27	8:58 MRE		99.9997		0.1000		0.0050
28							
29							
30							
31							

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: Dec  
 Year: 2019

Alternate Weight/ID used: \_\_\_\_\_  
 Date Range: \_\_\_\_\_

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2 8:16	MRE		99.9979		0.1000		0.0051
3 9:13	MRE		99.9971		0.1000		0.0049
4 11:24	MRF		99.9982		0.1000		0.0050
5 10:41	MRF		99.9987		0.1001		0.0050
6 10:21	MK		99.9983		0.1000		0.0050
7							
8							
9							
10 10:25	MAS		99.9991		0.1002		0.0050
11 12:30	MAS		99.9993		0.1000		0.0049
12 10:25	MAS		99.9994		<del>0.1000</del>		0.0051
13 10:17	MAS		99.9995		0.1000		0.0052
14 10:30	MAS		99.9994		0.0999		<del>0.0050</del>
15							
16 10:30	MAS	100.0000g	99.9994	0.1000g	0.0999	.0050g	0.0050
17 10:30	MAS		99.9992		0.0999		0.0049
18 1:315	<del>MRE</del>		99.9991		0.1002		0.0053
19 10:16	MAS		99.9992		0.0999		0.0049
20 10:38	MAS		99.9996		0.1000		0.0051
21							
22							
23 10:24	MRF		99.9997		0.1000		0.0049
24 10:20	MRF		99.9998		0.1001		0.0051
25							0
26 10:17	MAS		99.9992		0.0999		0.0049
27 13:07	MAS		99.9993		0.1001		0.0050
28							
29							
30 9:40	MRF		99.9989		0.1001		0.0050
31							

MAS  
12-16-19

MAS  
12-12-19

**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: November  
Year: 2019

Day/Time	Initials
1 07:40	JAG
2	
3	
4 07:25	JAG
5 07:25	JAG
6 07:55	JAG
7 07:20	JAG
8 07:34	AJT
9	
10	
11 07:15	JAG
12 10:20	Curt
13	
14 07:20	JAG
15 07:10	AJT
16	
17	
18 07:20	AJT
19 9/5	z
20 07:18	AJT
21 07:24	AJT
22 07:33	AJT
23	
24	
25 07:20	JAG
26 08:05	JAG
27 07:05	JAG
28	
29	
30	
31	

Weight One	Observed	Weight Two	Observed
	0.48		299.98
	0.51		300.00
	0.50		299.98
	0.51		299.99
	0.49		299.95
	0.51		299.98
	0.50		299.98
	0.49		299.99
	0.50		299.97
	0.50		299.97
0.50g		300.00g	
	0.49		299.95
	0.50		299.96
	0.50		299.98
	0.51		299.96
	0.50		299.97
	<del>JAG 11/25/19</del> <del>0.49</del>	0.49	299.95
	0.49		299.97
	0.49		300.00



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: December  
Year: 2019

Day/Time	Initials
1	
2 0723	ADD
3 10:35	CAW
4 0725	ADD
5 0712	ADD
6 10:30	CAW
7	
8	
9	JAG
10 1009	ADD
11 0710	ADD
12 0715	JAG
13 07:17	JAG
14 <del>0707</del>	<del>ADD</del>
15	
16 0707	ADD
17 0718	ADD
18 06:55	CAW
19 07:20	JAG
20 9:55	J
21	
22	
23 3:50	CAW
24 13:35	J
25	
26 10:40	CAW
27 11:25	CAW
28	
29	
30 9:20	J
31 0934	ADD

Weight One	Observed	Weight Two	Observed
	<del>0.50</del>		<del>300.00</del>
	0.50		300.00
	0.50		299.99
	0.50		300.01
	0.49		300.00
	0.50		300.02
	.48		300.00
	0.51		300.02
	0.50		300.02
	.50		300.01
	.49		300.00
	0. <del>ADD</del>		
0.50g	0.49	300.00g	300.01
	0.50		300.00
	0.50		300.01
	.49		300.00
	0.50		300.00
	0.51		300.02
	0.50		300.02
	0.49		300.00
	0.50		300.01
	0.48		300.00
	0.50		300.00

*month*

*12/16*