



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

**Level IV Data Package for  
Anchor QEA, LLC  
US Moorings – C2, C3, C4  
Apex Laboratories Work Order #:  
A0J0344**

***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.***

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Sequence 0J15061 (Cal ID A0J2107) DUALECD8R

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**APEX LABORATORIES, LLC**  
6700 SW Sandburg St. Tigard, OR 97223

phone 503-718-2323

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Extractions October 2020  
Wet Chem October 2020

## Analytical Case Narrative

## Analytical Case Narrative

Client: Anchor QEA, LLC  
Project: US Moorings – C2, C3, C4  
Apex Work Order Number: A0J0344

Date: 02/22/2021

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



Monday, November 16, 2020

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

RE: A0J0344 - US Moorings -- C2, C3, C4 - [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 A0J0344, which was received by the laboratory on 10/10/2020 at 7:30:00AM.

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                      2.3 degC                      Cooler #2                      2.1 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  
ORELAP ID: OR100062

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

Project: **US Moorings -- C2, C3, C4**  
Project Number: [none]  
Project Manager: **Delaney Peterson**

**Report ID:**  
A0J0344 - 11 16 20 0544

**ANALYTICAL REPORT FOR SAMPLES**

**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
USMPDI-041SG-201009	A0J0344-01	SE	10/09/20 00:00	10/10/20 07:30
USMPDI-042SG-201009	A0J0344-02	SE	10/09/20 13:43	10/10/20 07:30
USMPDI-043SG-201009	A0J0344-03	SE	10/09/20 09:03	10/10/20 07:30
USMPDI-047SG-201009	A0J0344-04	SE	10/09/20 15:56	10/10/20 07:30
USMPDI-050SG-201009	A0J0344-05	SE	10/09/20 09:52	10/10/20 07:30
USMPDI-051SG-201009	A0J0344-06	SE	10/09/20 10:58	10/10/20 07:30
USMPDI-054SG-201009	A0J0344-07	SE	10/09/20 14:50	10/10/20 07:30

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>US Moorings -- C2, C3, C4</b> Project Number: [none] Project Manager: <b>Delaney Peterson</b>	<b>Report ID:</b> <b>A0J0344 - 11 16 20 0544</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>USMPDI-041SG-201009 (A0J0344-01RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	6.84	6.84	ug/kg dry	1	10/26/20 15:50	EPA 8081B	R-02
2,4'-DDE	ND	2.74	5.48	ug/kg dry	1	10/26/20 15:50	EPA 8081B	
2,4'-DDT	ND	2.74	5.48	ug/kg dry	1	10/26/20 15:50	EPA 8081B	
<b>4,4'-DDD</b>	<b>4.08</b>	2.74	5.48	ug/kg dry	1	10/26/20 15:50	EPA 8081B	<b>J, P-11</b>
4,4'-DDE	ND	5.48	5.48	ug/kg dry	1	10/26/20 15:50	EPA 8081B	
4,4'-DDT	ND	2.74	5.48	ug/kg dry	1	10/26/20 15:50	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 54 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/26/20 15:50</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>70 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/26/20 15:50</i>	<i>EPA 8081B</i>
<b>USMPDI-042SG-201009 (A0J0344-02RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	6.80	6.80	ug/kg dry	1	10/26/20 16:23	EPA 8081B	R-02
2,4'-DDE	ND	5.19	5.19	ug/kg dry	1	10/26/20 16:23	EPA 8081B	
2,4'-DDT	ND	2.59	5.19	ug/kg dry	1	10/26/20 16:23	EPA 8081B	
4,4'-DDD	ND	5.19	5.19	ug/kg dry	1	10/26/20 16:23	EPA 8081B	
4,4'-DDE	ND	5.19	5.19	ug/kg dry	1	10/26/20 16:23	EPA 8081B	
4,4'-DDT	ND	2.59	5.19	ug/kg dry	1	10/26/20 16:23	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 52 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/26/20 16:23</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>89 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/26/20 16:23</i>	<i>EPA 8081B</i>
<b>USMPDI-043SG-201009 (A0J0344-03RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	2.63	5.26	ug/kg dry	1	10/26/20 16:39	EPA 8081B	
2,4'-DDE	ND	2.63	5.26	ug/kg dry	1	10/26/20 16:39	EPA 8081B	
2,4'-DDT	ND	2.63	5.26	ug/kg dry	1	10/26/20 16:39	EPA 8081B	
4,4'-DDD	ND	5.26	5.26	ug/kg dry	1	10/26/20 16:39	EPA 8081B	
4,4'-DDE	ND	2.63	5.26	ug/kg dry	1	10/26/20 16:39	EPA 8081B	
4,4'-DDT	ND	2.63	5.26	ug/kg dry	1	10/26/20 16:39	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 42 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/26/20 16:39</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>78 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/26/20 16:39</i>	<i>EPA 8081B</i>
<b>USMPDI-047SG-201009 (A0J0344-04RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	5.15	5.15	ug/kg dry	1	10/26/20 16:56	EPA 8081B	
2,4'-DDE	ND	6.18	6.18	ug/kg dry	1	10/26/20 16:56	EPA 8081B	R-02
2,4'-DDT	ND	2.57	5.15	ug/kg dry	1	10/26/20 16:56	EPA 8081B	
<b>4,4'-DDD</b>	<b>10.1</b>	2.57	5.15	ug/kg dry	1	10/26/20 16:56	EPA 8081B	<b>P-11</b>

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<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>US Moorings -- C2, C3, C4</b> Project Number: [none] Project Manager: <b>Delaney Peterson</b>	<b>Report ID:</b> <b>A0J0344 - 11 16 20 0544</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>USMPDI-047SG-201009 (A0J0344-04RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
4,4'-DDE	ND	5.15	5.15	ug/kg dry	1	10/26/20 16:56	EPA 8081B	
4,4'-DDT	ND	2.57	5.15	ug/kg dry	1	10/26/20 16:56	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 63 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/26/20 16:56</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>107 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/26/20 16:56</i>	<i>EPA 8081B</i>
<b>USMPDI-050SG-201009 (A0J0344-05RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	2.81	5.62	ug/kg dry	1	10/26/20 18:02	EPA 8081B	
2,4'-DDE	ND	6.18	6.18	ug/kg dry	1	10/26/20 18:02	EPA 8081B	R-02
2,4'-DDT	ND	2.81	5.62	ug/kg dry	1	10/26/20 18:02	EPA 8081B	
4,4'-DDD	ND	7.30	7.30	ug/kg dry	1	10/26/20 18:02	EPA 8081B	R-02
4,4'-DDE	ND	5.62	5.62	ug/kg dry	1	10/26/20 18:02	EPA 8081B	
4,4'-DDT	ND	2.81	5.62	ug/kg dry	1	10/26/20 18:02	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 53 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/26/20 18:02</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>100 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/26/20 18:02</i>	<i>EPA 8081B</i>
<b>USMPDI-051SG-201009 (A0J0344-06RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	5.34	5.34	ug/kg dry	1	10/26/20 18:19	EPA 8081B	
2,4'-DDE	ND	6.14	6.14	ug/kg dry	1	10/26/20 18:19	EPA 8081B	R-02
2,4'-DDT	ND	2.67	5.34	ug/kg dry	1	10/26/20 18:19	EPA 8081B	
4,4'-DDD	ND	7.47	7.47	ug/kg dry	1	10/26/20 18:19	EPA 8081B	R-02
4,4'-DDE	ND	5.34	5.34	ug/kg dry	1	10/26/20 18:19	EPA 8081B	
4,4'-DDT	ND	2.67	5.34	ug/kg dry	1	10/26/20 18:19	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 54 %</i>		<i>Limits: 42-129 %</i>		<i>1</i>	<i>10/26/20 18:19</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>82 %</i>		<i>55-130 %</i>		<i>1</i>	<i>10/26/20 18:19</i>	<i>EPA 8081B</i>
<b>USMPDI-054SG-201009 (A0J0344-07RE1)</b>			<b>Matrix: SE</b>		<b>Batch: 0100834</b>		<b>C-05</b>	
2,4'-DDD	ND	10.2	10.2	ug/kg dry	2	10/26/20 20:14	EPA 8081B	
2,4'-DDE	ND	11.2	11.2	ug/kg dry	2	10/26/20 20:14	EPA 8081B	R-02
2,4'-DDT	ND	5.08	10.2	ug/kg dry	2	10/26/20 20:14	EPA 8081B	
<b>4,4'-DDD</b>	<b>16.4</b>	5.08	10.2	ug/kg dry	2	10/26/20 20:14	EPA 8081B	<b>P-11</b>
4,4'-DDE	ND	10.2	10.2	ug/kg dry	2	10/26/20 20:14	EPA 8081B	
4,4'-DDT	ND	5.08	10.2	ug/kg dry	2	10/26/20 20:14	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 42-129 %</i>		<i>2</i>	<i>10/26/20 20:14</i>	<i>EPA 8081B</i>
<i>Decachlorobiphenyl (Surr)</i>		<i>103 %</i>		<i>55-130 %</i>		<i>2</i>	<i>10/26/20 20:14</i>	<i>EPA 8081B</i>

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ORELAP ID: OR100062

<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>US Moorings -- C2, C3, C4</b> Project Number: [none] Project Manager: <b>Delaney Peterson</b>	<b>Report ID:</b> A0J0344 - 11 16 20 0544
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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
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**ANALYTICAL SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>USMPDI-054SG-201009 (A0J0344-07)</b>				<b>Matrix: SE</b>		<b>Batch: 0100764</b>		
Acenaphthene	747	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	J, Q-37, Q-42
Acenaphthylene	ND	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Anthracene	1460	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Benz(a)anthracene	4010	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Benzo(a)pyrene	5840	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Benzo(b)fluoranthene	4530	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Benzo(k)fluoranthene	1630	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	M-05
Benzo(g,h,i)perylene	3990	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Chrysene	4970	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Dibenz(a,h)anthracene	ND	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Fluoranthene	6910	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Fluorene	ND	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Indeno(1,2,3-cd)pyrene	3200	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
2-Methylnaphthalene	ND	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Naphthalene	994	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	J, Q-37, Q-42
Phenanthrene	4510	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Pyrene	8730	636	1270	ug/kg dry	200	10/22/20 18:14	EPA 8270E	Q-42
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 78 %		Limits: 44-120 %	200	10/22/20 18:14	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)		96 %		54-127 %	200	10/22/20 18:14	EPA 8270E	S-05

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**ANALYTICAL SAMPLE RESULTS**

**Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>USMPDI-041SG-201009 (A0J0344-01RE1)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	2.61	0.274	0.548	mg/kg dry	2	10/14/20 18:13	D7511-12	
<b>USMPDI-042SG-201009 (A0J0344-02RE1)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	3.51	0.654	1.31	mg/kg dry	5	10/14/20 18:17	D7511-12	
<b>USMPDI-043SG-201009 (A0J0344-03RE2)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	3.30	0.275	0.550	mg/kg dry	2	10/14/20 18:51	D7511-12	
<b>USMPDI-047SG-201009 (A0J0344-04)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	15.1	1.32	2.63	mg/kg dry	10	10/14/20 17:40	D7511-12	
<b>USMPDI-050SG-201009 (A0J0344-05)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	17.3	1.42	2.84	mg/kg dry	10	10/14/20 17:44	D7511-12	
<b>USMPDI-051SG-201009 (A0J0344-06RE1)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	28.7	2.75	5.50	mg/kg dry	20	10/14/20 18:23	D7511-12	
<b>USMPDI-054SG-201009 (A0J0344-07RE2)</b>				<b>Matrix: SE</b>		<b>Batch: 0100373</b>		
Total Cyanide	303	25.0	50.1	mg/kg dry	200	10/14/20 18:55	D7511-12	

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**ANALYTICAL SAMPLE RESULTS**

**Demand Parameters**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>USMPDI-041SG-201009 (A0J0344-01)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>3.4</b>	---	0.056	% dry	1	10/13/20 20:16	PSEP_SM 5310B MOD	
<b>USMPDI-042SG-201009 (A0J0344-02)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>3.0</b>	---	0.053	% dry	1	10/13/20 20:38	PSEP_SM 5310B MOD	
<b>USMPDI-043SG-201009 (A0J0344-03)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>3.2</b>	---	0.056	% dry	1	10/13/20 20:49	PSEP_SM 5310B MOD	
<b>USMPDI-047SG-201009 (A0J0344-04)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>2.6</b>	---	0.053	% dry	1	10/13/20 20:59	PSEP_SM 5310B MOD	
<b>USMPDI-050SG-201009 (A0J0344-05)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>3.1</b>	---	0.057	% dry	1	10/13/20 21:10	PSEP_SM 5310B MOD	
<b>USMPDI-051SG-201009 (A0J0344-06)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>3.2</b>	---	0.055	% dry	1	10/13/20 21:21	PSEP_SM 5310B MOD	
<b>USMPDI-054SG-201009 (A0J0344-07)</b>				<b>Matrix: SE</b>				
Batch: 0100381								
<b>Total Organic Carbon</b>	<b>3.0</b>	---	0.052	% dry	1	10/13/20 21:54	PSEP_SM 5310B MOD	

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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>USMPDI-041SG-201009 (A0J0344-01)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>35.8</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	
<b>USMPDI-042SG-201009 (A0J0344-02)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>38.0</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	
<b>USMPDI-043SG-201009 (A0J0344-03)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>35.8</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	
<b>USMPDI-047SG-201009 (A0J0344-04)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>37.8</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	
<b>USMPDI-050SG-201009 (A0J0344-05)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>35.2</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	
<b>USMPDI-051SG-201009 (A0J0344-06)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>36.3</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	
<b>USMPDI-054SG-201009 (A0J0344-07)</b>				<b>Matrix: SE</b>				
Batch: 0100376								
<b>Total Solids</b>	<b>38.8</b>	---	1.00	%	1	10/13/20 15:26	SM 2540 G	

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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 0100834 - EPA 3546</b>												
<b>Sediment</b>												
<b>Blank (0100834-BLK1)</b>												
Prepared: 10/23/20 16:05 Analyzed: 10/26/20 15:17 <span style="float: right;">C-05</span>												
<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: 56 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		93 %		55-130 %		"						
<b>LCS (0100834-BS1)</b>												
Prepared: 10/23/20 16:05 Analyzed: 10/26/20 15:33 <span style="float: right;">C-05</span>												
<u>EPA 8081B</u>												
2,4'-DDD	51.6	1.00	2.00	ug/kg wet	1	50.0	---	103	58-128%	---	---	
2,4'-DDE	47.0	1.00	2.00	ug/kg wet	1	50.0	---	94	49-125%	---	---	
2,4'-DDT	50.6	1.00	2.00	ug/kg wet	1	50.0	---	101	66-145%	---	---	
4,4'-DDD	47.3	1.00	2.00	ug/kg wet	1	50.0	---	95	56-139%	---	---	
4,4'-DDE	48.1	1.00	2.00	ug/kg wet	1	50.0	---	96	56-134%	---	---	
4,4'-DDT	50.1	1.00	2.00	ug/kg wet	1	50.0	---	100	50-141%	---	---	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 72 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		104 %		55-130 %		"						
<b>Duplicate (0100834-DUP1)</b>												
Prepared: 10/23/20 16:05 Analyzed: 10/26/20 16:06 <span style="float: right;">C-05</span>												
<u>QC Source Sample: USMPDI-041SG-201009 (A0J0344-01RE1)</u>												
<u>EPA 8081B</u>												
2,4'-DDD	ND	10.9	10.9	ug/kg dry	1	---	ND	---	---	---	30%	R-02
2,4'-DDE	ND	7.16	7.16	ug/kg dry	1	---	ND	---	---	---	30%	R-02
2,4'-DDT	ND	5.51	5.51	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDD	<b>3.64</b>	2.75	5.51	ug/kg dry	1	---	4.08	---	---	12	30%	J, P-11
4,4'-DDE	ND	5.51	5.51	ug/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDT	ND	2.75	5.51	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)		Recovery: 65 %		Limits: 42-129 %		Dilution: 1x						
Decachlorobiphenyl (Surr)		90 %		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 0100834 - EPA 3546</b>						<b>Sediment</b>						
<b>Matrix Spike (0100834-MS2)</b>						Prepared: 10/23/20 16:06 Analyzed: 10/27/20 14:25						<b>C-05</b>
<b>QC Source Sample: Non-SDG (A0J0371-07RE2)</b>												
<b>EPA 8081B</b>												
2,4'-DDD	120	2.50	5.00	ug/kg dry	1	125	ND	96	58-128%	---	---	
2,4'-DDE	111	2.50	5.00	ug/kg dry	1	125	ND	89	49-125%	---	---	
2,4'-DDT	121	2.50	5.00	ug/kg dry	1	125	ND	97	66-145%	---	---	
4,4'-DDD	112	2.50	5.00	ug/kg dry	1	125	2.92	87	56-139%	---	---	
4,4'-DDE	112	2.50	5.00	ug/kg dry	1	125	ND	90	56-134%	---	---	
4,4'-DDT	121	2.50	5.00	ug/kg dry	1	125	ND	97	50-141%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 49 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>73 %</i>		<i>55-130 %</i>		<i>"</i>						

<b>Matrix Spike Dup (0100834-MSD2)</b>						Prepared: 10/23/20 16:06 Analyzed: 10/27/20 14:42						<b>C-05</b>
<b>QC Source Sample: Non-SDG (A0J0371-07RE2)</b>												
2,4'-DDD	128	2.50	4.99	ug/kg dry	1	125	ND	102	58-128%	6	30%	
2,4'-DDE	114	2.50	4.99	ug/kg dry	1	125	ND	91	49-125%	3	30%	
2,4'-DDT	125	2.50	4.99	ug/kg dry	1	125	ND	100	66-145%	4	30%	
4,4'-DDD	123	2.50	4.99	ug/kg dry	1	125	2.92	96	56-139%	9	30%	
4,4'-DDE	122	2.50	4.99	ug/kg dry	1	125	ND	98	56-134%	8	30%	
4,4'-DDT	131	2.50	4.99	ug/kg dry	1	125	ND	105	50-141%	8	30%	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 47 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>82 %</i>		<i>55-130 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 0100764 - EPA 3546</b>												
<b>Sediment</b>												
<b>Blank (0100764-BLK1)</b>												
Prepared: 10/22/20 10:40 Analyzed: 10/22/20 17:09												
<u>EPA 8270E</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: 91 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>108 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>LCS (0100764-BS1)</b>												
Prepared: 10/22/20 10:40 Analyzed: 10/22/20 17:41												
<u>EPA 8270E</u>												
Acenaphthene	19.8	1.25	2.50	ug/kg wet	1	20.0	---	99	40-123%	---	---	
Acenaphthylene	20.5	1.25	2.50	ug/kg wet	1	20.0	---	103	32-132%	---	---	
Anthracene	21.4	1.25	2.50	ug/kg wet	1	20.0	---	107	47-123%	---	---	
Benz(a)anthracene	19.5	1.25	2.50	ug/kg wet	1	20.0	---	97	49-126%	---	---	
Benzo(a)pyrene	22.7	1.25	2.50	ug/kg wet	1	20.0	---	114	45-129%	---	---	
Benzo(b)fluoranthene	20.1	1.25	2.50	ug/kg wet	1	20.0	---	101	45-132%	---	---	
Benzo(k)fluoranthene	19.8	1.25	2.50	ug/kg wet	1	20.0	---	99	47-132%	---	---	
Benzo(g,h,i)perylene	18.7	1.25	2.50	ug/kg wet	1	20.0	---	94	43-134%	---	---	
Chrysene	19.7	1.25	2.50	ug/kg wet	1	20.0	---	98	50-124%	---	---	
Dibenz(a,h)anthracene	18.3	1.25	2.50	ug/kg wet	1	20.0	---	92	45-134%	---	---	
Fluoranthene	20.3	1.25	2.50	ug/kg wet	1	20.0	---	101	50-127%	---	---	

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 0100764 - EPA 3546</b>												
<b>Sediment</b>												
<b>LCS (0100764-BS1)</b>												
Prepared: 10/22/20 10:40 Analyzed: 10/22/20 17:41												
Fluorene	21.4	1.25	2.50	ug/kg wet	1	20.0	---	107	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	17.2	1.25	2.50	ug/kg wet	1	20.0	---	86	45-133%	---	---	
2-Methylnaphthalene	20.2	1.25	2.50	ug/kg wet	1	20.0	---	101	38-122%	---	---	
Naphthalene	18.6	1.25	2.50	ug/kg wet	1	20.0	---	93	35-123%	---	---	
Phenanthrene	19.3	1.25	2.50	ug/kg wet	1	20.0	---	96	50-121%	---	---	
Pyrene	19.3	1.25	2.50	ug/kg wet	1	20.0	---	97	47-127%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>106 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>Duplicate (0100764-DUP1)</b>												
Prepared: 10/22/20 10:40 Analyzed: 10/22/20 18:46												
<b>QC Source Sample: USMPDI-054SG-201009 (A0J0344-07)</b>												
<b>EPA 8270E</b>												
Acenaphthene	1600	638	1280	ug/kg dry	200	---	747	---	---	73	30%	Q-04
Acenaphthylene	789	638	1280	ug/kg dry	200	---	ND	---	---	30%		Q-04, J
Anthracene	2600	638	1280	ug/kg dry	200	---	1460	---	---	56	30%	Q-04
Benz(a)anthracene	7250	638	1280	ug/kg dry	200	---	4010	---	---	57	30%	Q-04
Benzo(a)pyrene	11000	638	1280	ug/kg dry	200	---	5840	---	---	61	30%	Q-04
Benzo(b)fluoranthene	9570	638	1280	ug/kg dry	200	---	4530	---	---	71	30%	Q-04
Benzo(k)fluoranthene	3430	638	1280	ug/kg dry	200	---	1630	---	---	71	30%	M-05, Q-04
Benzo(g,h,i)perylene	7080	638	1280	ug/kg dry	200	---	3990	---	---	56	30%	Q-04
Chrysene	8220	638	1280	ug/kg dry	200	---	4970	---	---	49	30%	Q-04
Dibenz(a,h)anthracene	870	638	1280	ug/kg dry	200	---	ND	---	---	30%		Q-04, J
Fluoranthene	13700	638	1280	ug/kg dry	200	---	6910	---	---	66	30%	Q-04
Fluorene	1060	638	1280	ug/kg dry	200	---	ND	---	---	30%		Q-04, J
Indeno(1,2,3-cd)pyrene	6160	638	1280	ug/kg dry	200	---	3200	---	---	63	30%	Q-04
2-Methylnaphthalene	809	638	1280	ug/kg dry	200	---	ND	---	---	30%		Q-04, J
Naphthalene	1870	638	1280	ug/kg dry	200	---	994	---	---	61	30%	Q-04
Phenanthrene	7860	638	1280	ug/kg dry	200	---	4510	---	---	54	30%	Q-04
Pyrene	14100	638	1280	ug/kg dry	200	---	8730	---	---	47	30%	Q-04
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 200x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>98 %</i>		<i>54-127 %</i>		<i>"</i>						

<b>Matrix Spike (0100764-MS1)</b>												
Prepared: 10/22/20 10:40 Analyzed: 10/22/20 19:50												

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 0100764 - EPA 3546</b>						<b>Sediment</b>						
<b>Matrix Spike (0100764-MS1)</b>						Prepared: 10/22/20 10:40 Analyzed: 10/22/20 19:50						
<b>QC Source Sample: Non-SDG (A0J0371-10)</b>												
<b>EPA 8270E</b>												
Acenaphthene	ND	310	619	ug/kg dry	100	49.5	ND		40-123%	---	---	Q-11
Acenaphthylene	ND	310	619	ug/kg dry	100	49.5	ND		32-132%	---	---	Q-11
Anthracene	462	310	619	ug/kg dry	100	49.5	396	133	47-123%	---	---	Q-11, J
Benz(a)anthracene	1110	310	619	ug/kg dry	100	49.5	1570	-929	49-126%	---	---	Q-11
Benzo(a)pyrene	1610	310	619	ug/kg dry	100	49.5	2840	-2490	45-129%	---	---	Q-11
Benzo(b)fluoranthene	1370	310	619	ug/kg dry	100	49.5	2290	-1860	45-132%	---	---	Q-11
Benzo(k)fluoranthene	480	310	619	ug/kg dry	100	49.5	811	-667	47-132%	---	---	Q-11, J
Benzo(g,h,i)perylene	1110	310	619	ug/kg dry	100	49.5	1980	-1760	43-134%	---	---	Q-11
Chrysene	1330	310	619	ug/kg dry	100	49.5	1970	-1300	50-124%	---	---	Q-11
Dibenz(a,h)anthracene	ND	310	619	ug/kg dry	100	49.5	ND		45-134%	---	---	Q-11
Fluoranthene	2110	310	619	ug/kg dry	100	49.5	2200	-181	50-127%	---	---	Q-11
Fluorene	ND	310	619	ug/kg dry	100	49.5	ND		43-125%	---	---	Q-11
Indeno(1,2,3-cd)pyrene	930	310	619	ug/kg dry	100	49.5	1630	-1420	45-133%	---	---	Q-11
2-Methylnaphthalene	ND	310	619	ug/kg dry	100	49.5	ND		38-122%	---	---	Q-11
Naphthalene	ND	310	619	ug/kg dry	100	49.5	639	-1290	35-123%	---	---	Q-11
Phenanthrene	1340	310	619	ug/kg dry	100	49.5	1150	394	50-121%	---	---	Q-11
Pyrene	2370	310	619	ug/kg dry	100	49.5	2590	-453	47-127%	---	---	Q-11
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 74 %		Limits: 44-120 %		Dilution: 100x						S-05
p-Terphenyl-d14 (Surr)		95 %		54-127 %		"						S-05

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**QUALITY CONTROL (QC) SAMPLE RESULTS**

**Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 0100373 - ASTM D7511-12mod (S)</b>												
<b>Soil</b>												
<b>Blank (0100373-BLK1)</b>												
Prepared: 10/12/20 09:47 Analyzed: 10/13/20 11:57												
<u>D7511-12</u>												
Total Cyanide	ND	0.0500	0.100	mg/kg wet	1	---	---	---	---	---	---	
<b>LCS (0100373-BS1)</b>												
Prepared: 10/12/20 09:47 Analyzed: 10/13/20 11:59												
<u>D7511-12</u>												
Total Cyanide	0.363	0.0500	0.100	mg/kg wet	1	0.400	---	91	84-116%	---	---	
<b>Matrix Spike (0100373-MS3)</b>												
Prepared: 10/12/20 09:47 Analyzed: 10/14/20 16:30												
<u>QC Source Sample: Non-SDG (A0J0281-03RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	4.65	0.648	1.30	mg/kg dry	5	1.04	4.09	55	64-136%	---	---	Q-04, Q-16
<b>Matrix Spike (0100373-MS4)</b>												
Prepared: 10/12/20 09:47 Analyzed: 10/14/20 16:42												
<u>QC Source Sample: Non-SDG (A0J0343-01RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	2.60	0.231	0.462	mg/kg dry	2	0.924	3.45	-92	64-136%	---	---	Q-04, Q-16
<b>Matrix Spike Dup (0100373-MSD3)</b>												
Prepared: 10/12/20 09:47 Analyzed: 10/14/20 16:32												
<u>QC Source Sample: Non-SDG (A0J0281-03RE1)</u>												
Total Cyanide	8.80	0.651	1.30	mg/kg dry	5	1.04	4.09	453	64-136%	62	47%	Q-04, Q-16
<b>Matrix Spike Dup (0100373-MSD4)</b>												
Prepared: 10/12/20 09:47 Analyzed: 10/14/20 16:44												
<u>QC Source Sample: Non-SDG (A0J0343-01RE1)</u>												
Total Cyanide	2.66	0.233	0.466	mg/kg dry	2	0.933	3.45	-84	64-136%	3	47%	Q-04, Q-16

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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 0100381 - PSEP-5310B TOC</b>						<b>Soil</b>						
<b>Blank (0100381-BLK1)</b>			Prepared: 10/12/20 11:41 Analyzed: 10/13/20 17:34									
<u>PSEP SM 5310B MOD</u>												
Total Organic Carbon	ND	---	0.020	% wet	1	---	---	---	---	---	---	
<b>LCS (0100381-BS1)</b>			Prepared: 10/12/20 11:41 Analyzed: 10/13/20 17:45									
<u>PSEP SM 5310B MOD</u>												
Total Organic Carbon	9500	---		mg/kg	1	10000	---	95	88-111%	---	---	
<b>Duplicate (0100381-DUP1)</b>			Prepared: 10/12/20 11:41 Analyzed: 10/13/20 18:28									
<u>QC Source Sample: Non-SDG (A0J0343-01)</u>												
Total Organic Carbon	2.5	---	0.047	% dry	1	---	2.4	---	---	5	27%	
<b>Duplicate (0100381-DUP2)</b>			Prepared: 10/12/20 11:41 Analyzed: 10/13/20 18:39									
<u>QC Source Sample: Non-SDG (A0J0343-01)</u>												
Total Organic Carbon	2.5	---	0.047	% dry	1	---	2.4	---	---	4	27%	
<b>Duplicate (0100381-DUP3)</b>			Prepared: 10/12/20 11:41 Analyzed: 10/13/20 20:27									
<u>QC Source Sample: USMPDI-041SG-201009 (A0J0344-01)</u>												
<u>PSEP SM 5310B MOD</u>												
Total Organic Carbon	3.4	---	0.056	% dry	1	---	3.4	---	---	2	27%	

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**Apex Laboratories, LLC**

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 Tigard, OR 97223  
 503-718-2323  
 ORELAP ID: OR100062

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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 0100376 - Total Solids (SM2540G/PSEP)</b>						<b>Sediment</b>						
<b>Duplicate (0100376-DUP1)</b>						Prepared: 10/12/20 10:19 Analyzed: 10/13/20 15:26						
<u>QC Source Sample: USMPDI-041SG-201009 (A0J0344-01)</u>												
<u>SM 2540 G</u>												
Total Solids	35.8	---	1.00	%	1	---	35.8	---	---	0.04	10%	
<b>Duplicate (0100376-DUP2)</b>						Prepared: 10/12/20 10:19 Analyzed: 10/13/20 15:26						
<u>QC Source Sample: Non-SDG (A0J0298-19)</u>												
Total Solids	87.0	---	1.00	%	1	---	86.6	---	---	0.4	10%	

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Project: **US Moorings -- C2, C3, C4**

Project Number: [none]

Project Manager: **Delaney Peterson**

**Report ID:**

**A0J0344 - 11 16 20 0544**

**SAMPLE PREPARATION INFORMATION**

**Organochlorine Pesticides by EPA 8081B**

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100834							
A0J0344-01RE1	SE	EPA 8081B	10/09/20 00:00	10/23/20 16:05	10.21g/10mL	10g/5mL	1.96
A0J0344-02RE1	SE	EPA 8081B	10/09/20 13:43	10/23/20 16:05	10.13g/10mL	10g/5mL	1.97
A0J0344-03RE1	SE	EPA 8081B	10/09/20 09:03	10/23/20 16:05	10.64g/10mL	10g/5mL	1.88
A0J0344-04RE1	SE	EPA 8081B	10/09/20 15:56	10/23/20 16:05	10.28g/10mL	10g/5mL	1.95
A0J0344-05RE1	SE	EPA 8081B	10/09/20 09:52	10/23/20 16:05	10.1g/10mL	10g/5mL	1.98
A0J0344-06RE1	SE	EPA 8081B	10/09/20 10:58	10/23/20 16:05	10.33g/10mL	10g/5mL	1.94
A0J0344-07RE1	SE	EPA 8081B	10/09/20 14:50	10/23/20 16:05	10.15g/10mL	10g/5mL	1.97

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)**

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100764							
A0J0344-07	SE	EPA 8270E	10/09/20 14:50	10/22/20 10:40	10.15g/5mL	10g/5mL	0.99

**Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection**

Prep: ASTM D7511-12mod (S)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100373							
A0J0344-01RE1	SE	D7511-12	10/09/20 00:00	10/12/20 09:47	2.551g/50mL	2.5g/50mL	0.98
A0J0344-02RE1	SE	D7511-12	10/09/20 13:43	10/12/20 09:47	2.5113g/50mL	2.5g/50mL	1.00
A0J0344-03RE2	SE	D7511-12	10/09/20 09:03	10/12/20 09:47	2.5421g/50mL	2.5g/50mL	0.98
A0J0344-04	SE	D7511-12	10/09/20 15:56	10/12/20 09:47	2.5156g/50mL	2.5g/50mL	0.99
A0J0344-05	SE	D7511-12	10/09/20 09:52	10/12/20 09:47	2.5015g/50mL	2.5g/50mL	1.00
A0J0344-06RE1	SE	D7511-12	10/09/20 10:58	10/12/20 09:47	2.5054g/50mL	2.5g/50mL	1.00
A0J0344-07RE2	SE	D7511-12	10/09/20 14:50	10/12/20 09:47	2.5765g/50mL	2.5g/50mL	0.97

**Demand Parameters**

Prep: PSEP-5310B TOC

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0100381							
A0J0344-01	SE	PSEP_SM 5310B MOD	10/09/20 00:00	10/12/20 11:41			NA

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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
A0J0344-02	SE	PSEP_SM 5310B MOD	10/09/20 13:43	10/12/20 11:41			NA
A0J0344-03	SE	PSEP_SM 5310B MOD	10/09/20 09:03	10/12/20 11:41			NA
A0J0344-04	SE	PSEP_SM 5310B MOD	10/09/20 15:56	10/12/20 11:41			NA
A0J0344-05	SE	PSEP_SM 5310B MOD	10/09/20 09:52	10/12/20 11:41			NA
A0J0344-06	SE	PSEP_SM 5310B MOD	10/09/20 10:58	10/12/20 11:41			NA
A0J0344-07	SE	PSEP_SM 5310B MOD	10/09/20 14:50	10/12/20 11:41			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: 0100376</u>							
A0J0344-01	SE	SM 2540 G	10/09/20 00:00	10/12/20 10:19			NA
A0J0344-02	SE	SM 2540 G	10/09/20 13:43	10/12/20 10:19			NA
A0J0344-03	SE	SM 2540 G	10/09/20 09:03	10/12/20 10:19			NA
A0J0344-04	SE	SM 2540 G	10/09/20 15:56	10/12/20 10:19			NA
A0J0344-05	SE	SM 2540 G	10/09/20 09:52	10/12/20 10:19			NA
A0J0344-06	SE	SM 2540 G	10/09/20 10:58	10/12/20 10:19			NA
A0J0344-07	SE	SM 2540 G	10/09/20 14:50	10/12/20 10:19			NA

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**QUALIFIER DEFINITIONS**

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

**Apex Laboratories**

- C-05** Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- P-11** Result estimated. Secondary column confirmation does not meet method criteria due to matrix interference.
- 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-16** Reanalysis of an original Batch QC sample.
- Q-37** Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.
- 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.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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Project: US Moorings -- C2, C3, C4  
Project Number: [none]  
Project Manager: Delaney Peterson

Report ID:  
A0J0344 - 11 16 20 0544

**REPORTING NOTES AND CONVENTIONS:**

**Abbreviations:**

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

**Detection Limits: Limit of Detection (LOD)**

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

**Reporting Limits: Limit of Quantitation (LOQ)**

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

**Reporting Conventions:**

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

**QC Source:**

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

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

**Miscellaneous Notes:**

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

**Blanks:**

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

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Portland, OR 97219

Project: **US Moorings -- C2, C3, C4**

Project Number: [none]

Project Manager: **Delaney Peterson**

**Report ID:**

**A0J0344 - 11 16 20 0544**

**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.

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503-718-2323  
ORELAP ID: OR100062

<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>US Moorings -- C2, C3, C4</b> Project Number: [none] Project Manager: <b>Delaney Peterson</b>	<b>Report ID:</b> A0J0344 - 11 16 20 0544
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**LABORATORY ACCREDITATION INFORMATION**

**ORELAP 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.

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6720 SW Macadam Ave. Suite 125  
Portland, OR 97219

Project: **US Moorings - C2, C3, C4**  
Project Number: [none]  
Project Manager: **Delaney Peterson**

**Report ID:**  
A0J0344 - 11 16 20 0544

A0J0344

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: APEX-20201009-155951  
Sample Custodian: dep  
Lab: Apex  
Project: GascoSilttronic: US Moorings  
Client: NW Natural  
POC: Delaney Peterson (360-715-2707)  
1605 Cornwell Avenue, Bellingham, WA 98225

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Lab #	OC	Containers	Test Request	Method	TAT**	Preservative
001	USMPDI-041SG-201009	N	SE	10/09/2020	0:00	1	<input type="checkbox"/>	1	Cyanide TOC LR Pesticides (QAPP C-2, C-3, and C-4) Total solids (APEX)	D7511-12 SM6310B SM6081B SM2540G	30	4°C
002	USMPDI-042SG-201009	N	SE	10/09/2020	13:43	1	<input type="checkbox"/>	1	Cyanide TOC LR Pesticides (QAPP C-2, C-3, and C-4) Total solids (APEX)	D7511-12 SM6310B SM6081B SM2540G	30	4°C
003	USMPDI-043SG-201009	N	SE	10/09/2020	9:03	1	<input type="checkbox"/>	1	Cyanide TOC LR Pesticides (QAPP C-2, C-3, and C-4) Total solids (APEX)	D7511-12 SM6310B SM6081B SM2540G	30	4°C
004	USMPDI-047SG-201009	N	SE	10/09/2020	15:56	1	<input type="checkbox"/>	1	Cyanide TOC LR Pesticides (QAPP C-2, C-3, and C-4) Total solids (APEX)	D7511-12 SM6310B SM6081B SM2540G	30	4°C
005	USMPDI-050SG-201009	N	SE	10/09/2020	9:52	1	<input type="checkbox"/>	1	Cyanide	D7511-12	30	4°C

Requested By	Signature	Print Name	Company	Date/Time	Received By	Signature	Print Name	Company	Date/Time
Delaney Peterson		Delaney Peterson	ACP	10.10.20 0736	Delaney Peterson		Delaney Peterson	ACP	10.10.20 0736

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

Date Printed: 10/9/2020



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

Project: **US Moorings -- C2, C3, C4**  
Project Number: [none]  
Project Manager: **Delaney Peterson**

**Report ID:**  
A0J0344 - 11 16 20 0544

A0J0344

**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 **Client:** NW Natural  
**Project:** GascoSIltronic: US Moorings  
**COC ID:** APEX-20201009-155951 **Sample Custodian:** dep **Lab:** Apex  
**Containers:** 1 **Lab OC#:**

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers	Lab OC#	Test Request	Method	TAT**	Preservative
005	USMPDI-054SG-201009	N	SE	10/09/2020	9:52	1	<input type="checkbox"/>	TOC LR Pesticides (QAPP C-2, C-3, and C-4) Total solids (APEX)	SM65310B SW8081B SM2540G	30	4°C
006	USMPDI-051SG-201009	N	SE	10/09/2020	10:58	1	<input type="checkbox"/>	Cyanide TOC LR Pesticides (QAPP C-2, C-3, and C-4) Total solids (APEX)	D7511-12 SM65310B SW8081B SM2540G	30	4°C
007	USMPDI-054SG-201009	N	SE	10/09/2020	14:50	3	<input type="checkbox"/>	Cyanide TOC LR Pesticides (QAPP C-2, C-3, and C-4) PAH Total solids (APEX)	D7511-12 SM65310B SW8081B SW8270E SM2540G	30	4°C

Comment:

Requested By: <i>[Signature]</i>	Relinquished By: <i>[Signature]</i>
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: <i>Delaney Peterson</i>	Print Name: <i>[Name]</i>
Company: <i>AQ</i>	Company: <i>[Company]</i>
Date/Time: <i>10-10-20 0730</i>	Date/Time: <i>10-10-20 0730</i>

**Date Printed:** 10/9/2020

**Page 2 of 2**

\* 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.

<b>Anchor QEA, LLC</b> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <b>US Moorings -- C2, C3, C4</b> Project Number: [none] Project Manager: <b>Delaney Peterson</b>	<b>Report ID:</b> <b>A0J0344 - 11 16 20 0544</b>
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**APEX LABS COOLER RECEIPT FORM**

**Client:** ANCHOR Element WO#: A0 J0344

**Project/Project #:** Gasco Siltronic: US Moorings

**Delivery Info:**  
 Date/time received: 10/10/20 @ 0730 By: D. Thomas  
 Delivered by: Apex  Client  ESS  FedEx  UPS  Swift  Senvoy  SDS  Other

**Cooler Inspection** Date/time inspected: 10/10/20 @ 920 By: JS

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>2.3</u>	<u>2.1</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>real</u>	<u>real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

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

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

**Samples Inspection:** Date/time inspected: 10/10/20 @ 1126 By: BC

All samples intact? Yes  No  Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: USMPD1-054SG-201009 COC lists 3 containers, received 2

COC/container discrepancies form initiated? Yes  No

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: [Signature] Witness: [Signature] Cooler Inspected by: [Signature] See Project Contact Form: Y





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

A0J0344

Apex Laboratories

Client: **Anchor QEA, LLC** Project Manager: **Darwin Thomas**  
 Project: **US Moorings -- C2, C3, C4** Project Number: **[none]**

<b>Report To:</b>	<b>Invoice To:</b>
Anchor QEA, LLC	Anchor QEA, LLC
Delaney Peterson	Delaney Peterson
6720 SW Macadam Ave. Suite 125	6720 SW Macadam Ave. Suite 125
Portland, OR 97219	Portland, OR 97219
Phone: (360) 733-4311	Phone :(360) 733-4311
Fax: na	Fax: na

Date Due: 10/26/20 17:00 (10 day TAT)  
 Received By: Darwin Thomas Date Received: 10/10/20 07:30  
 Logged In By: Susan L. Treat Date Logged In: 10/10/20 11:26

<b>Cooler #1 received at 2.3°C</b>									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	No	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								
<b>Cooler #2 received at 2.1°C</b>									
Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	No	PH Confirmed	No	Received On Ice	Yes
Temperature OK	Yes								

Analysis	Due	TAT	Expires	Comments
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**A0J0344-01 USMPDI-041SG-201009 [Sediment] Sampled 10/09/20 00:00 (GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 00:00	use TS data, make non-reportable
<b>Project Mgmt</b>				
Data Package	12/31/20 17:00	10	01/16/21 00:00	
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 00:00	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 00:00	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 00:00	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 00:00	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 00:00	

**A0J0344-02 USMPDI-042SG-201009 [Sediment] Sampled 10/09/20 13:43 (GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 13:43	use TS data, make non-reportable
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 13:43	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 13:43	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 13:43	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 13:43	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 13:43	

A0J0344

Apex Laboratories

<b>Client:</b> Anchor QEA, LLC	<b>Project Manager:</b> Darwin Thomas
<b>Project:</b> US Moorings -- C2, C3, C4	<b>Project Number:</b> [none]

Analysis	Due	TAT	Expires	Comments
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**A0J0344-03 USMPDI-043SG-201009 [Sediment] Sampled 10/09/20 09:03**

**(GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 09:03	use TS data, make non-reportable
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 09:03	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 09:03	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 09:03	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 09:03	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 09:03	

**A0J0344-04 USMPDI-047SG-201009 [Sediment] Sampled 10/09/20 15:56**

**(GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 15:56	use TS data, make non-reportable
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 15:56	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 15:56	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 15:56	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 15:56	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 15:56	

**A0J0344-05 USMPDI-050SG-201009 [Sediment] Sampled 10/09/20 09:52**

**(GMT-08:00) Pacific Time (US & Canada) 1 Containers**

Analysis	Due	TAT	Expires	Comments
<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 09:52	use TS data, make non-reportable
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 09:52	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 09:52	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 09:52	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 09:52	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 09:52	

**A0J0344**

**Apex Laboratories**

<b>Client:</b> Anchor QEA, LLC <b>Project:</b> US Moorings -- C2, C3, C4	<b>Project Manager:</b> Darwin Thomas <b>Project Number:</b> [none]
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Analysis	Due	TAT	Expires	Comments
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**A0J0344-06 USMPDI-051SG-201009 [Sediment] Sampled 10/09/20 10:58**

**(GMT-08:00) Pacific Time (US & Canada) 1 Containers**

<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 10:58	use TS data, make non-reportable
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 10:58	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 10:58	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 10:58	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 10:58	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 10:58	

**A0J0344-07 USMPDI-054SG-201009 [Sediment] Sampled 10/09/20 14:50**

**CoC lists 3 containers, received 2**

**(GMT-08:00) Pacific Time (US & Canada) 2 Containers**

<b>Dry Weight</b>				
Dry Weight	10/15/20 17:00	3	04/07/21 14:50	use TS data, make non-reportable
<b>Semivols (ECD)</b>				
8081B 2,4+4,4-DDx Only (+Add)	10/23/20 17:00	10	10/23/20 14:50	
<b>Semivols (Scan)</b>				
8270E LL PAH Only (Scan)	10/23/20 17:00	10	10/23/20 14:50	
<b>Wet Chem</b>				
Cyanide, Total (ASTM D7511, OIA)	10/23/20 17:00	10	10/23/20 14:50	
Solids, Total (SM 2540 G,B)	10/23/20 17:00	10	04/07/21 14:50	enter TS data in dry wt
Total Organic Carbon - Sediment (PSEP/BC)	11/03/20 17:00	10	11/06/20 14:50	5310C is completed; added 10/26, 2 d
<del>Total Organic Carbon - Soil (5310 B)</del>	10/23/20 17:00	10	11/06/20 14:50	

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

A0J0344

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

Project: GascoSiltronic: US Moorings  
Client: NW Natural

COC ID: APEX-20201009-155951  
Sample Custodian: dep  
Lab: Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	USMPDI-041SG-201009	N	SE	10/09/2020	0:00	1	<input type="checkbox"/>	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
002	USMPDI-042SG-201009	N	SE	10/09/2020	13:43	1	<input type="checkbox"/>	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
003	USMPDI-043SG-201009	N	SE	10/09/2020	9:03	1	<input type="checkbox"/>	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
004	USMPDI-047SG-201009	N	SE	10/09/2020	15:56	1	<input type="checkbox"/>	Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
005	USMPDI-050SG-201009	N	SE	10/09/2020	9:52	1	<input type="checkbox"/>	Cyanide	D7511-12	30	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Delaney Peterson</i>	Print Name: <i>D. Thomas</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>AQ</i>	Company: <i>APEX</i>	Company:	Company:	Company:	Company:
Date/Time: <i>10.10.20 0730</i>	Date/Time: <i>10-10-20 0730</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

A0J0344

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

**Project:** GascoSilttronic: US Moorings  
**Client:** NW Natural

**COC ID:** APEX-20201009-155951  
**Sample Custodian:** dep  
**Lab:** Apex

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
005	USMPDI-050SG-201009	N	SE	10/09/2020	9:52	1	<input type="checkbox"/>				
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
006	USMPDI-051SG-201009	N	SE	10/09/2020	10:58	1	<input type="checkbox"/>				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								Total solids (APEX)	SM2540G	30	4°C
007	USMPDI-054SG-201009	N	SE	10/09/2020	14:50	3	<input type="checkbox"/>				
								Cyanide	D7511-12	30	4°C
								TOC	SM5310B	30	4°C
								LR Pesticides (QAPP C-2, C-3, and C-4)	SW8081B	30	4°C
								PAH	SW8270E	30	4°C
								Total solids (APEX)	SM2540G	30	4°C

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>D. Morris</i>				
<i>AQ</i>	<i>Apex</i>				
<i>10.10.20 0730</i>	<i>10-10-20 0730</i>				

**APEX LABS COOLER RECEIPT FORM**

Client: Anchor Element WO#: A0 J0344

Project/Project #: Gasco Silt/Tronic: US Moorings

**Delivery Info:**

Date/time received: 10/10/20 @ 0730 By: D. Thomas

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

**Cooler Inspection** Date/time inspected: 10/10/20 @ 920 By: JS

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

Signed/dated by client? Yes  No

Signed/dated by Apex? Yes  No

	<u>Cooler #1</u>	<u>Cooler #2</u>	<u>Cooler #3</u>	<u>Cooler #4</u>	<u>Cooler #5</u>	<u>Cooler #6</u>	<u>Cooler #7</u>
Temperature (°C)	<u>2.3</u>	<u>2.1</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>N</u>	<u>N</u>					
Ice type: (Gel/Real/Other)	<u>real</u>	<u>real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

Cooler out of temp? (Y/N) Possible reason why: \_\_\_\_\_

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA NA

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

**Samples Inspection:** Date/time inspected: 10/10/20 @ 1126 By: BC

All samples intact? Yes  No  Comments: \_\_\_\_\_

Bottle labels/COCs agree? Yes  No  Comments: USMPDI-054SG-201009 COC lists

3 containers, received 2

COC/container discrepancies form initiated? Yes  No

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: (Signature) Witness: (Signature) Cooler Inspected by: (Signature) See Project Contact Form: Y

## CLP-Like Forms



# Apex Laboratories

SDG: A0J0344

CLASS: GC

METHOD: EPA 8081B

**ANALYSES DATA PACKAGE COVER PAGE**

**EPA 8081B**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

---

<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>USMPDI-041SG-201009</u>	<u>A0J0344-01</u>	<u>SE</u>
<u>USMPDI-042SG-201009</u>	<u>A0J0344-02</u>	<u>SE</u>
<u>USMPDI-043SG-201009</u>	<u>A0J0344-03</u>	<u>SE</u>
<u>USMPDI-047SG-201009</u>	<u>A0J0344-04</u>	<u>SE</u>
<u>USMPDI-050SG-201009</u>	<u>A0J0344-05</u>	<u>SE</u>
<u>USMPDI-051SG-201009</u>	<u>A0J0344-06</u>	<u>SE</u>
<u>USMPDI-054SG-201009</u>	<u>A0J0344-07</u>	<u>SE</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: \_\_\_\_\_

1/6/2021 1:43PM

Title: \_\_\_\_\_

Technical Manager

# METHOD DETECTION AND REPORTING LIMITS

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch Matrix: Sediment

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

USMPDI-041SG-201009
---------------------

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>		
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>		
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-01RE1</u>	File ID: <u>ECD8-10262015.D</u>	
Sampled: <u>10/09/20 00:00</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 15:50</u>	
Solids: <u>35.77</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.21 g / 10 mL</u>	
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>	Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	6.84	U
3424-82-6	2,4'-DDE	1	2.74	U
789-02-6	2,4'-DDT	1	2.74	U
72-54-8	4,4'-DDD [2C]	1	4.08	J
72-55-9	4,4'-DDE [2C]	1	5.48	U
50-29-3	4,4'-DDT [2C]	1	2.74	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	137	74.1	54	42 - 129	
Decachlorobiphenyl (Surr) [2C]	137	96.2	70	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-042SG-201009

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-02RE1</u>	File ID: <u>ECD8-10262017.D</u>
Sampled: <u>10/09/20 13:43</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 16:23</u>
Solids: <u>38.04</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.13 g / 10 mL</u>
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>
		Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	6.80	U
3424-82-6	2,4'-DDE	1	5.19	U
789-02-6	2,4'-DDT	1	2.59	U
72-54-8	4,4'-DDD [2C]	1	5.19	U
72-55-9	4,4'-DDE [2C]	1	5.19	U
50-29-3	4,4'-DDT	1	2.59	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	130	67.0	52	42 - 129	
Decachlorobiphenyl (Surr) [2C]	130	115	89	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-043SG-201009

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-03RE1</u>	File ID: <u>ECD8-10262018.D</u>
Sampled: <u>10/09/20 09:03</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 16:39</u>
Solids: <u>35.77</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.64 g / 10 mL</u>
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>
		Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	2.63	U
3424-82-6	2,4'-DDE	1	2.63	U
789-02-6	2,4'-DDT [2C]	1	2.63	U
72-54-8	4,4'-DDD [2C]	1	5.26	U
72-55-9	4,4'-DDE [2C]	1	2.63	U
50-29-3	4,4'-DDT [2C]	1	2.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	131	55.4	42	42 - 129	
Decachlorobiphenyl (Surr) [2C]	131	103	78	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-047SG-201009

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-04RE1</u>	File ID: <u>ECD8-10262019.D</u>
Sampled: <u>10/09/20 15:56</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 16:56</u>
Solids: <u>37.78</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.28 g / 10 mL</u>
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>
		Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	5.15	U
3424-82-6	2,4'-DDE	1	6.18	U
789-02-6	2,4'-DDT	1	2.57	U
72-54-8	4,4'-DDD [2C]	1	10.1	
72-55-9	4,4'-DDE [2C]	1	5.15	U
50-29-3	4,4'-DDT	1	2.57	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	129	80.5	63	42 - 129	
Decachlorobiphenyl (Surr) [2C]	129	137	107	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-050SG-201009

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-05RE1</u>	File ID: <u>ECD8-10262023.D</u>
Sampled: <u>10/09/20 09:52</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 18:02</u>
Solids: <u>35.25</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.1 g / 10 mL</u>
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>
		Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	2.81	U
3424-82-6	2,4'-DDE	1	6.18	U
789-02-6	2,4'-DDT	1	2.81	U
72-54-8	4,4'-DDD [2C]	1	7.30	U
72-55-9	4,4'-DDE	1	5.62	U
50-29-3	4,4'-DDT	1	2.81	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	140	73.8	53	42 - 129	
Decachlorobiphenyl (Surr) [2C]	140	140	100	55 - 130	

\* Values outside of QC limits



# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-051SG-201009

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-06RE1</u>	File ID: <u>ECD8-10262024.D</u>
Sampled: <u>10/09/20 10:58</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 18:19</u>
Solids: <u>36.28</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.33 g / 10 mL</u>
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>
		Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	1	5.34	U
3424-82-6	2,4'-DDE [2C]	1	6.14	U
789-02-6	2,4'-DDT	1	2.67	U
72-54-8	4,4'-DDD [2C]	1	7.47	U
72-55-9	4,4'-DDE [2C]	1	5.34	U
50-29-3	4,4'-DDT	1	2.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	133	72.5	54	42 - 129	
Decachlorobiphenyl (Surr) [2C]	133	110	82	55 - 130	

\* Values outside of QC limits

# ORGANIC ANALYSIS DATA SHEET

EPA 8081B

USMPDI-054SG-201009

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-07RE1</u>	File ID: <u>ECD8-10262031.D</u>
Sampled: <u>10/09/20 14:50</u>	Prepared: <u>10/23/20 16:05</u>	Analyzed: <u>10/26/20 20:14</u>
Solids: <u>38.75</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.15 g / 10 mL</u>
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</u>
		Instrument: <u>DUALECD8</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
53-19-0	2,4'-DDD	2	10.2	U
3424-82-6	2,4'-DDE [2C]	2	11.2	U
789-02-6	2,4'-DDT [2C]	2	5.08	U
72-54-8	4,4'-DDD [2C]	2	16.4	D
72-55-9	4,4'-DDE [2C]	2	10.2	U
50-29-3	4,4'-DDT	2	5.08	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2,4,5,6-TCMX (Surr) [2C]	127	88.7	70	42 - 129	
Decachlorobiphenyl (Surr) [2C]	127	132	103	55 - 130	

\* Values outside of QC limits

# PREPARATION BATCH SUMMARY

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch: 0100834

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100834-BLK1	ECD8-10262013.D	10/23/20 16:05	
LCS	0100834-BS1	ECD8-10262014.D	10/23/20 16:05	
USMPDI-041SG-201009 (Dup)	0100834-DUP1	ECD8-10262016.D	10/23/20 16:05	
USMPDI-041SG-201009	A0J0344-01RE1	ECD8-10262015.D	10/23/20 16:05	
USMPDI-042SG-201009	A0J0344-02RE1	ECD8-10262017.D	10/23/20 16:05	
USMPDI-043SG-201009	A0J0344-03RE1	ECD8-10262018.D	10/23/20 16:05	
USMPDI-047SG-201009	A0J0344-04RE1	ECD8-10262019.D	10/23/20 16:05	
USMPDI-050SG-201009	A0J0344-05RE1	ECD8-10262023.D	10/23/20 16:05	
USMPDI-051SG-201009	A0J0344-06RE1	ECD8-10262024.D	10/23/20 16:05	
USMPDI-054SG-201009	A0J0344-07RE1	ECD8-10262031.D	10/23/20 16:05	

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.

# METHOD BLANK DATA SHEET

**EPA 8081B**

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>0100834-BLK1</u>	File ID: <u>ECD8-10262013.D</u>
Prepared: <u>10/23/20 16:05</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 10 mL</u>
Analyzed: <u>10/26/20 15:17</u>	Instrument: <u>DUALECD8</u>	
Batch: <u>0100834</u>	Sequence: <u>0J26061</u>	Calibration: <u>A0J2107</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	25.3	56	42 - 129	
Decachlorobiphenyl (Surr) [2C]	45.5	42.2	93	55 - 130	

# LCS / LCS DUPLICATE RECOVERY

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Batch: 0100834

Laboratory ID: 0100834-BS1

Preparation: EPA 3546

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	51.6	103	58 - 128
2,4'-DDE [2C]	50.0	47.0	94	49 - 125
2,4'-DDT [2C]	50.0	50.6	101	66 - 145
4,4'-DDD [2C]	50.0	47.3	95	56 - 139
4,4'-DDE [2C]	50.0	48.1	96	56 - 134
4,4'-DDT [2C]	50.0	50.1	100	50 - 141

\* = Values outside of QC limits

# DUPLICATES

USMPDI-041SG-201009

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Laboratory ID: 0100834-DUP1

Batch: 0100834

Lab Source ID: A0J0344-01RE1

Preparation: EPA 3546

Initial/Final: 10.15 g / 10 mL

Source Sample Name: USMPDI-041SG-201009

% Solids: 35.77

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
2,4'-DDD	30	6.82		ND				EPA 8081B
2,4'-DDE	30	2.71		ND				EPA 8081B
2,4'-DDT	30	1.26		ND				EPA 8081B
4,4'-DDD [2C]	30	4.08		3.64		12		EPA 8081B
4,4'-DDE [2C]	30	3.72		ND				EPA 8081B
4,4'-DDT [2C]	30	2.71		ND				EPA 8081B

\* Values outside of QC limits

# ANALYSIS BATCH (SEQUENCE) SUMMARY

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J15061

Instrument: DUALECD8

Matrix: Sediment

Calibration: A0J2107

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Blank	0J15061-ICB1	ECD8-10152005.D	10/15/20 18:15
Cal Standard	0J15061-CAL1	ECD8-10152006.D	10/15/20 18:32
Cal Standard	0J15061-CAL2	ECD8-10152007.D	10/15/20 18:48
Cal Standard	0J15061-CAL3	ECD8-10152008.D	10/15/20 19:05
Cal Standard	0J15061-CAL4	ECD8-10152009.D	10/15/20 19:21
Cal Standard	0J15061-CAL5	ECD8-10152010.D	10/15/20 19:38
Cal Standard	0J15061-CAL6	ECD8-10152011.D	10/15/20 19:54
Cal Standard	0J15061-CAL7	ECD8-10152012.D	10/15/20 20:11
Cal Standard	0J15061-CAL8	ECD8-10152013.D	10/15/20 20:27
Cal Standard	0J15061-CAL9	ECD8-10152014.D	10/15/20 20:44
Initial Cal Check	0J15061-ICV1	ECD8-10152016.D	10/15/20 21:17
Cal Standard	0J15061-CALA	ECD8-10152017.D	10/15/20 21:33
Cal Standard	0J15061-CALB	ECD8-10152018.D	10/15/20 21:50
Cal Standard	0J15061-CALC	ECD8-10152019.D	10/15/20 22:06
Cal Standard	0J15061-CALD	ECD8-10152020.D	10/15/20 22:23
Cal Standard	0J15061-CALE	ECD8-10152021.D	10/15/20 22:39
Cal Standard	0J15061-CALF	ECD8-10152022.D	10/15/20 22:56
Cal Standard	0J15061-CALG	ECD8-10152023.D	10/15/20 23:12
Cal Standard	0J15061-CALH	ECD8-10152024.D	10/15/20 23:29
Cal Standard	0J15061-CALI	ECD8-10152025.D	10/15/20 23:46
Initial Cal Check	0J15061-ICV2	ECD8-10152027.D	10/16/20 00:19

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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J26061

Instrument: DUALECD8

Matrix: Sediment

Calibration: A0J2107

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0J26061-CCV2	ECD8-10262009.D	10/26/20 14:10
Calibration Check	0J26061-CCV3	ECD8-10262010.D	10/26/20 14:27
Calibration Blank	0J26061-CCB1	ECD8-10262011.D	10/26/20 14:43
Blank	0100834-BLK1	ECD8-10262013.D	10/26/20 15:17
LCS	0100834-BS1	ECD8-10262014.D	10/26/20 15:33
USMPDI-041SG-201009	A0J0344-01RE1	ECD8-10262015.D	10/26/20 15:50
USMPDI-041SG-201009 (Dup)	0100834-DUP1	ECD8-10262016.D	10/26/20 16:06
USMPDI-042SG-201009	A0J0344-02RE1	ECD8-10262017.D	10/26/20 16:23
USMPDI-043SG-201009	A0J0344-03RE1	ECD8-10262018.D	10/26/20 16:39
USMPDI-047SG-201009	A0J0344-04RE1	ECD8-10262019.D	10/26/20 16:56
Calibration Check	0J26061-CCV4	ECD8-10262020.D	10/26/20 17:12
Calibration Check	0J26061-CCV5	ECD8-10262021.D	10/26/20 17:29
Calibration Blank	0J26061-CCB2	ECD8-10262022.D	10/26/20 17:45
USMPDI-050SG-201009	A0J0344-05RE1	ECD8-10262023.D	10/26/20 18:02
USMPDI-051SG-201009	A0J0344-06RE1	ECD8-10262024.D	10/26/20 18:19
USMPDI-054SG-201009	A0J0344-07RE1	ECD8-10262031.D	10/26/20 20:14
Calibration Check	0J26061-CCV6	ECD8-10262032.D	10/26/20 20:31
Calibration Check	0J26061-CCV7	ECD8-10262033.D	10/26/20 20:47
Calibration Blank	0J26061-CCB3	ECD8-10262034.D	10/26/20 21:04

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 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J2107

Date: 10/21/20 12:29

Instrument: DUALECD8

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
2,4'-DDD	1921377	Ave	9.626247	8.001889	3.406474E-02			20	
2,4'-DDD [2C]	2253990	XXX	10.67664	8.468556	1.995492E-02				
2,4'-DDE	2126918	Ave	7.999272	7.623	3.690063E-02			20	
2,4'-DDT	2145969	Ave	9.33146	8.181667	0.0248323			20	
2,4'-DDT [2C]	2372054	XXX	12.62514	8.689778	0.0071125				
4,4'-DDD [2C]	3114105	XXX	13.37351	8.733556	2.484861E-02				
4,4'-DDE	3151100	Ave	10.12842	7.874444	4.348044E-02			20	
4,4'-DDE [2C]	3634901	XXX	15.92557	8.320222	2.701346E-02				
4,4'-DDT	2669241	XXX	14.07186	8.499222	1.960454E-02				
4,4'-DDT [2C]	2951307	XXX	20.16933	8.957444	4.518711E-03				
2,4,5,6-TCMX (Surr) [2C]	4000851	Ave	6.026316	5.989889	1.267914E-02			20	
Decachlorobiphenyl (Surr) [2C]	2419306	Ave	8.467837	10.50489	4.088253E-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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J2107

Instrument: DUALECD8

Calibration Date: 10/21/20 12:29

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
4,4'-DDD	0.5	2676466	1	2561702	2	2554366	5	2463434	10	2560811	25	2715372
4,4'-DDD [2C]	0.5	2920602	1	2804997	2	2726823	5	2746150	10	2943807	25	3074127
4,4'-DDE	0.5	2977348	1	2806594	2	2916029	5	2870674	10	3025077	25	3167186
4,4'-DDE [2C]	0.5	3177518	1	3083622	2	3233695	5	3173250	10	3369230	25	3700062
4,4'-DDT	0.5	2405018	1	2340699	2	2388133	5	2338044	10	2509615	25	2748200
4,4'-DDT [2C]	0.5	2455666	1	2447680	2	2432603	5	2550826	10	2696225	25	3041346
2,4,5,6-TCMX (Surr)	0.5	3928930	1	3675375	2	3487494	5	3391336	10	3378580	25	3464495
2,4,5,6-TCMX (Surr) [2C]	0.5	4189348	1	3996914	2	3763994	5	3696812	10	3769119	25	3900728
Decachlorobiphenyl (Surr)	0.5	3732602	1	3197716	2	2850842	5	2572640	10	2566336	25	2492739
Decachlorobiphenyl (Surr) [2C]	0.5	2821606	1	2586506	2	2395772	5	2256766	10	2221992	25	2250438

# INITIAL CALIBRATION DATA (Continued)

EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J2107

Instrument: DUALECD8

Matrix:

Calibration Date: 10/21/20 12:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD							0.5	2250420	1	2191428	2	1841175
2,4'-DDD [2C]							0.5	2638212	1	2545735	2	2064664
2,4'-DDE							0.5	2403006	1	2330761	2	1950579
2,4'-DDE [2C]							0.5	2609542	1	2507932	2	2192344
2,4'-DDT							0.5	2443218	1	2264292	2	1871040
2,4'-DDT [2C]							0.5	2710858	1	2394823	2	1994345
4,4'-DDD	50	2681748	100	3139188	200	3123894						
4,4'-DDD [2C]	50	3264048	100	3619428	200	3926966						
4,4'-DDE	50	3302522	100	3627906	200	3666564						
4,4'-DDE [2C]	50	3914178	100	4401254	200	4661297						
4,4'-DDT	50	2757558	100	3214173	200	3321730						
4,4'-DDT [2C]	50	3168274	100	3736752	200	4032396						
2,4,5,6-TCMX (Surr)	50	3426378	100	3539420	200	3535657						
2,4,5,6-TCMX (Surr) [2C]	50	4046088	100	4257161	200	4387498						
Decachlorobiphenyl (Surr)	50	2431280	100	2543656	200	2544531						
Decachlorobiphenyl (Surr) [2C]	50	2248670	100	2423042	200	2568961						

# INITIAL CALIBRATION DATA (Continued)

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J2107

Instrument: DUALECD8

Matrix:

Calibration Date: 10/21/20 12:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF	ng/mL	RF
2,4'-DDD	5	1750274	10	1764873	25	1863625	50	1780154	100	1858274	200	1992166
2,4'-DDD [2C]	5	1987760	10	2043638	25	2135228	50	2155648	100	2226407	200	2488622
2,4'-DDE	5	1915228	10	2016633	25	2088811	50	2067330	100	2101327	200	2268587
2,4'-DDE [2C]	5	2163242	10	2214220	25	2396393	50	2355954	100	2561226	200	2838812
2,4'-DDT	5	1917403	10	1970236	25	2099731	50	2163314	100	2207085	200	2377399
2,4'-DDT [2C]	5	2023114	10	2090847	25	2320531	50	2406058	100	2572524	200	2835386

# SECOND-SOURCE CALIBRATION VERIFICATION

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10152016.D

Sequence: 0J15061

Inject Date: 10/15/20

Lab Sample ID: 0J15061-ICV1

Inject Time: 21:17

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
4,4'-DDD	50.0	50.4	0.8	70 - 130
4,4'-DDD [2C]	50.0	51.8	3.6	70 - 130
4,4'-DDE	50.0	51.4	2.7	70 - 130
4,4'-DDE [2C]	50.0	50.9	1.7	70 - 130
4,4'-DDT	50.0	51.6	3.3	70 - 130
4,4'-DDT [2C]	50.0	51.9	3.8	70 - 130
2,4,5,6-TCMX (Surr)	50.0	46.6	-6.7	70 - 130
2,4,5,6-TCMX (Surr) [2C]	50.0	48.9	-2.2	70 - 130
Decachlorobiphenyl (Surr)	50.0	47.7	-4.7	70 - 130
Decachlorobiphenyl (Surr) [2C]	50.0	46.5	-7.0	70 - 130

# SECOND-SOURCE CALIBRATION VERIFICATION

## EPA 8081B

Laboratory: Apex Laboratories SDG: A0J0344  
Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4  
Instrument ID: DUALECD8 Calibration: A0J2107  
Lab File ID: ECD8-10152027.D  
Sequence: 0J15061 Inject Date: 10/16/20  
Lab Sample ID: 0J15061-ICV2 Inject Time: 00:19

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,4'-DDD	50.0	46.0	-8.0	70 - 130
2,4'-DDD [2C]	50.0	50.4	0.9	70 - 130
2,4'-DDE	50.0	48.3	-3.4	70 - 130
2,4'-DDE [2C]	50.0	50.6	1.2	70 - 130
2,4'-DDT	50.0	51.9	3.9	70 - 130
2,4'-DDT [2C]	50.0	54.6	9.3	70 - 130

# CONTINUING CALIBRATION CHECK

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10262009.D

Calibration Date: 10/21/20 12:29

Sequence: 0J26061

Injection Date: 10/26/20

Lab Sample ID: 0J26061-CCV2

Injection Time: 14:10

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	53.2		2719664	2895420	6.5	20
4,4'-DDD [2C]	XXX	50.0	54.6	9.2				20
4,4'-DDE	Ave	50.0	54.5		3151100	3435938	9.0	20
4,4'-DDE [2C]	XXX	50.0	53.6	7.2				20
4,4'-DDT	XXX	50.0	51.4	2.9				20
4,4'-DDT [2C]	XXX	50.0	53.1	6.1				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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10262010.D

Calibration Date: 10/21/20 12:29

Sequence: 0J26061

Injection Date: 10/26/20

Lab Sample ID: 0J26061-CCV3

Injection Time: 14:27

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	49.7		1921377	1911111	-0.5	20
2,4'-DDD [2C]	XXX	50.0	51.7	3.3				20
2,4'-DDE	Ave	50.0	50.0		2126918	2125972	-0.04	20
2,4'-DDE [2C]	Ave	50.0	50.2		2426629	2437584	0.5	20
2,4'-DDT	Ave	50.0	48.7		2145969	2088308	-2.7	20
2,4'-DDT [2C]	XXX	50.0	51.4	2.9				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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10262020.D

Calibration Date: 10/21/20 12:29

Sequence: 0J26061

Injection Date: 10/26/20

Lab Sample ID: 0J26061-CCV4

Injection Time: 17:12

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	118		2719664	3207332	17.9	20
4,4'-DDD [2C]	XXX	100	112	12.3				20
4,4'-DDE	Ave	100	115		3151100	3638412	15.5	20
4,4'-DDE [2C]	XXX	100	110	10.4				20
4,4'-DDT	XXX	100	98.3	-1.7				20
4,4'-DDT [2C]	XXX	100	98.9	-1.1				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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10262021.D

Calibration Date: 10/21/20 12:29

Sequence: 0J26061

Injection Date: 10/26/20

Lab Sample ID: 0J26061-CCV5

Injection Time: 17:29

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	100	104		1921377	1995729	3.9	20
2,4'-DDD [2C]	XXX	100	106	6.3				20
2,4'-DDE	Ave	100	103		2126918	2180448	2.5	20
2,4'-DDE [2C]	Ave	100	108		2426629	2615718	7.8	20
2,4'-DDT	Ave	100	100		2145969	2145152	-0.04	20
2,4'-DDT [2C]	XXX	100	99.6	-0.4				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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10262032.D

Calibration Date: 10/21/20 12:29

Sequence: 0J26061

Injection Date: 10/26/20

Lab Sample ID: 0J26061-CCV6

Injection Time: 20:31

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	57.5		2719664	3128248	15.0	20
4,4'-DDD [2C]	XXX	50.0	59.7	19.3				20
4,4'-DDE	Ave	50.0	54.1		3151100	3407598	8.1	20
4,4'-DDE [2C]	XXX	50.0	56.7	13.5				20
4,4'-DDT	XXX	50.0	47.0	-6.1				20
4,4'-DDT [2C]	XXX	50.0	48.8	-2.4				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: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: DUALECD8

Calibration: A0J2107

Lab File ID: ECD8-10262033.D

Calibration Date: 10/21/20 12:29

Sequence: 0J26061

Injection Date: 10/26/20

Lab Sample ID: 0J26061-CCV7

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	
2,4'-DDD	Ave	50.0	50.4		1921377	1937736	0.9	20
2,4'-DDD [2C]	XXX	50.0	53.8	7.7				20
2,4'-DDE	Ave	50.0	48.3		2126918	2056150	-3.3	20
2,4'-DDE [2C]	Ave	50.0	50.7		2426629	2461526	1.4	20
2,4'-DDT	Ave	50.0	45.8		2145969	1966529	-8.4	20
2,4'-DDT [2C]	XXX	50.0	48.4	-3.3				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: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J15061

Instrument: DUALECD8

Matrix: Sediment

Calibration: A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (0J15061-ICV1)</b>			Lab File ID: ECD8-10152016.D		Analyzed: 10/15/20 21:17			
2,4,5,6-TCMX (Surr)	50.0	93	70 - 130	5.683	5.682556	0.0004	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	98	70 - 130	5.99	5.989889	0.0001	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	95	70 - 130	9.905	9.902556	0.0024	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	93	70 - 130	10.507	10.50489	0.0021	+/-1.0	

# SURROGATE STANDARD RECOVERY AND RT SUMMARY

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J26061

Instrument: DUALECD8

Matrix: Sediment

Calibration: A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (0J26061-CCV2 )</b> Lab File ID: ECD8-10262009.D Analyzed: 10/26/20 14:10								
2,4,5,6-TCMX (Surr)	50.0	94	80 - 120	5.663	5.682556	-0.0196	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	101	80 - 120	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	100	80 - 120	9.884	9.902556	-0.0186	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	97	80 - 120	10.477	10.50489	-0.0279	+/-1.0	
<b>Calibration Blank (0J26061-CCB1 )</b> Lab File ID: ECD8-10262011.D Analyzed: 10/26/20 14:43								
2,4,5,6-TCMX (Surr) [2C]	100	99	42 - 129	5.967	5.989889	-0.0229	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	95	55 - 130	10.477	10.50489	-0.0279	+/-1.0	
<b>Blank (0100834-BLK1 )</b> Lab File ID: ECD8-10262013.D Analyzed: 10/26/20 15:17								
2,4,5,6-TCMX (Surr) [2C]	45.5	56	42 - 129	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	45.5	93	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
<b>LCS (0100834-BS1 )</b> Lab File ID: ECD8-10262014.D Analyzed: 10/26/20 15:33								
2,4,5,6-TCMX (Surr) [2C]	50.0	72	42 - 129	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	104	55 - 130	10.476	10.50489	-0.0289	+/-1.0	
<b>USMPDI-041SG-201009 (A0J0344-01RE1 )</b> Lab File ID: ECD8-10262015.D Analyzed: 10/26/20 15:50								
2,4,5,6-TCMX (Surr) [2C]	137	54	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	137	70	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
<b>Duplicate (0100834-DUP1 )</b> Lab File ID: ECD8-10262016.D Analyzed: 10/26/20 16:06								
2,4,5,6-TCMX (Surr) [2C]	138	65	42 - 129	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	138	90	55 - 130	10.476	10.50489	-0.0289	+/-1.0	
<b>USMPDI-042SG-201009 (A0J0344-02RE1 )</b> Lab File ID: ECD8-10262017.D Analyzed: 10/26/20 16:23								
2,4,5,6-TCMX (Surr) [2C]	130	52	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	130	89	55 - 130	10.474	10.50489	-0.0309	+/-1.0	
<b>USMPDI-043SG-201009 (A0J0344-03RE1 )</b> Lab File ID: ECD8-10262018.D Analyzed: 10/26/20 16:39								
2,4,5,6-TCMX (Surr) [2C]	131	42	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	131	78	55 - 130	10.473	10.50489	-0.0319	+/-1.0	
<b>USMPDI-047SG-201009 (A0J0344-04RE1 )</b> Lab File ID: ECD8-10262019.D Analyzed: 10/26/20 16:56								
2,4,5,6-TCMX (Surr) [2C]	129	63	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	129	107	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
<b>Calibration Check (0J26061-CCV4 )</b> Lab File ID: ECD8-10262020.D Analyzed: 10/26/20 17:12								
2,4,5,6-TCMX (Surr)	100	101	80 - 120	5.663	5.682556	-0.0196	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	100	108	80 - 120	5.966	5.989889	-0.0239	+/-1.0	
Decachlorobiphenyl (Surr)	100	103	80 - 120	9.882	9.902556	-0.0206	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	107	80 - 120	10.475	10.50489	-0.0299	+/-1.0	

# SURROGATE STANDARD RECOVERY AND RT SUMMARY

## EPA 8081B

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 0J26061  
 Matrix: Sediment

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Instrument: DUALECD8  
 Calibration: A0J2107

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Blank (0J26061-CCB2 )</b>			Lab File ID: ECD8-10262022.D Analyzed: 10/26/20 17:45					
2,4,5,6-TCMX (Surr) [2C]	100	97	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	95	55 - 130	10.475	10.50489	-0.0299	+/-1.0	
<b>USMPDI-050SG-201009 (A0J0344-05RE1 )</b>			Lab File ID: ECD8-10262023.D Analyzed: 10/26/20 18:02					
2,4,5,6-TCMX (Surr) [2C]	140	53	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	140	100	55 - 130	10.476	10.50489	-0.0289	+/-1.0	
<b>USMPDI-051SG-201009 (A0J0344-06RE1 )</b>			Lab File ID: ECD8-10262024.D Analyzed: 10/26/20 18:19					
2,4,5,6-TCMX (Surr) [2C]	133	54	42 - 129	5.965	5.989889	-0.0249	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	133	82	55 - 130	10.474	10.50489	-0.0309	+/-1.0	
<b>USMPDI-054SG-201009 (A0J0344-07RE1 )</b>			Lab File ID: ECD8-10262031.D Analyzed: 10/26/20 20:14					
2,4,5,6-TCMX (Surr) [2C]	127	70	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	127	103	55 - 130	10.472	10.50489	-0.0329	+/-1.0	
<b>Calibration Check (0J26061-CCV6 )</b>			Lab File ID: ECD8-10262032.D Analyzed: 10/26/20 20:31					
2,4,5,6-TCMX (Surr)	50.0	100	80 - 120	5.661	5.682556	-0.0216	+/-1.0	
2,4,5,6-TCMX (Surr) [2C]	50.0	104	80 - 120	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr)	50.0	104	80 - 120	9.88	9.902556	-0.0226	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	50.0	107	80 - 120	10.474	10.50489	-0.0309	+/-1.0	
<b>Calibration Blank (0J26061-CCB3 )</b>			Lab File ID: ECD8-10262034.D Analyzed: 10/26/20 21:04					
2,4,5,6-TCMX (Surr) [2C]	100	98	42 - 129	5.964	5.989889	-0.0259	+/-1.0	
Decachlorobiphenyl (Surr) [2C]	100	103	55 - 130	10.474	10.50489	-0.0309	+/-1.0	

# HOLDING TIME SUMMARY

## EPA 8081B

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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
USMPDI-041SG-201009	10/09/20 00:00	10/10/20 07:30	10/23/20 16:05	14.67	14.00	10/26/20 15:50	2.99	40.00	*
USMPDI-042SG-201009	10/09/20 13:43	10/10/20 07:30	10/23/20 16:05	14.10	14.00	10/26/20 16:23	3.01	40.00	*
USMPDI-043SG-201009	10/09/20 09:03	10/10/20 07:30	10/23/20 16:05	14.29	14.00	10/26/20 16:39	3.02	40.00	*
USMPDI-047SG-201009	10/09/20 15:56	10/10/20 07:30	10/23/20 16:05	14.01	14.00	10/26/20 16:56	3.04	40.00	*
USMPDI-050SG-201009	10/09/20 09:52	10/10/20 07:30	10/23/20 16:05	14.26	14.00	10/26/20 18:02	3.08	40.00	*
USMPDI-051SG-201009	10/09/20 10:58	10/10/20 07:30	10/23/20 16:05	14.21	14.00	10/26/20 18:19	3.09	40.00	*
USMPDI-054SG-201009	10/09/20 14:50	10/10/20 07:30	10/23/20 16:05	14.05	14.00	10/26/20 20:14	3.17	40.00	*



# Apex Laboratories

SDG: A0J0344

CLASS: GCMS

METHOD: EPA 8270E

**ANALYSES DATA PACKAGE COVER PAGE**

**EPA 8270E**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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**Client Sample Id:**

USMPDI-054SG-201009

**Lab Sample Id:**

A0J0344-07

**Matrix**

SE

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: \_\_\_\_\_

1/6/2021 1:43PM

Title: \_\_\_\_\_

Technical Manager

# METHOD DETECTION AND REPORTING LIMITS

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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 8270E

**USMPDI-054SG-201009**

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-07</u>	File ID: <u>N10222007.D</u>
Sampled: <u>10/09/20 14:50</u>	Prepared: <u>10/22/20 10:40</u>	Analyzed: <u>10/22/20 18:14</u>
Solids: <u>38.75</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.15 g / 5 mL</u>
Batch: <u>0100764</u>	Sequence: <u>0J22053</u>	Calibration: <u>A0H1005</u> Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	200	747	JD
208-96-8	Acenaphthylene	200	636	U
120-12-7	Anthracene	200	1460	D
56-55-3	Benz(a)anthracene	200	4010	D
50-32-8	Benzo(a)pyrene	200	5840	D
205-99-2	Benzo(b)fluoranthene	200	4530	D
207-08-9	Benzo(k)fluoranthene	200	1630	D
191-24-2	Benzo(g,h,i)perylene	200	3990	D
218-01-9	Chrysene	200	4970	D
53-70-3	Dibenz(a,h)anthracene	200	636	U
206-44-0	Fluoranthene	200	6910	D
86-73-7	Fluorene	200	636	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	3200	D
91-57-6	2-Methylnaphthalene	200	636	U
91-20-3	Naphthalene	200	994	JD
85-01-8	Phenanthrene	200	4510	D
129-00-0	Pyrene	200	8730	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	127	99.2	78	44 - 120	D
p-Terphenyl-d14 (Surr)	127	122	96	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	265841	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	159251	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	296372	10.996	305267	10.996	
Chrysene-d12 (ISTD)	265657	14.633	260148	14.633	
Perylene-d12 (ISTD)	251389	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	206744	20.467	163573	20.467	

\* Values outside of QC limits

# PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch: 0100764

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100764-BLK1	N10222005.D	10/22/20 10:40	
LCS	0100764-BS1	N10222006.D	10/22/20 10:40	
USMPDI-054SG-201009 (Dup)	0100764-DUP1	N10222008.D	10/22/20 10:40	
USMPDI-054SG-201009	A0J0344-07	N10222007.D	10/22/20 10:40	

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.

# METHOD BLANK DATA SHEET

**EPA 8270E**

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>0100764-BLK1</u>	File ID: <u>N10222005.D</u>
Prepared: <u>10/22/20 10:40</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 5 mL</u>
Analyzed: <u>10/22/20 17:09</u>	Instrument: <u>SV-GCMS14</u>	
Batch: <u>0100764</u>	Sequence: <u>0J22053</u>	Calibration: <u>A0H1005</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	41.5	91	44 - 120	
p-Terphenyl-d14 (Surr)	45.5	49.1	108	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	

# LCS / LCS DUPLICATE RECOVERY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Batch: 0100764

Laboratory ID: 0100764-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	19.8	99	40 - 123
Acenaphthylene	20.0	20.5	103	32 - 132
Anthracene	20.0	21.4	107	47 - 123
Benzo(a)anthracene	20.0	19.5	97	49 - 126
Benzo(a)pyrene	20.0	22.7	114	45 - 129
Benzo(b)fluoranthene	20.0	20.1	101	45 - 132
Benzo(k)fluoranthene	20.0	19.8	99	47 - 132
Benzo(g,h,i)perylene	20.0	18.7	94	43 - 134
Chrysene	20.0	19.7	98	50 - 124
Dibenz(a,h)anthracene	20.0	18.3	92	45 - 134
Fluoranthene	20.0	20.3	101	50 - 127
Fluorene	20.0	21.4	107	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.2	86	45 - 133
2-Methylnaphthalene	20.0	20.2	101	38 - 122
Naphthalene	20.0	18.6	93	35 - 123
Phenanthrene	20.0	19.3	96	50 - 121
Pyrene	20.0	19.3	97	47 - 127

\* = Values outside of QC limits

# DUPLICATES

USMPDI-054SG-201009

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Laboratory ID: 0100764-DUP1

Batch: 0100764

Lab Source ID: A0J0344-07

Preparation: EPA 3546

Initial/Final: 10.11 g / 5 mL

Source Sample Name: USMPDI-054SG-201009

% Solids: 38.75

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Acenaphthene	30	747		1600		73	*	EPA 8270E
Acenaphthylene	30	628		789		200	*	EPA 8270E
Anthracene	30	1460		2600		56	*	EPA 8270E
Benz(a)anthracene	30	4010		7250		57	*	EPA 8270E
Benzo(a)pyrene	30	5840		11000		61	*	EPA 8270E
Benzo(b)fluoranthene	30	4530		9570		71	*	EPA 8270E
Benzo(k)fluoranthene	30	1630		3430		71	*	EPA 8270E
Benzo(g,h,i)perylene	30	3990		7080		56	*	EPA 8270E
Chrysene	30	4970		8220		49	*	EPA 8270E
Dibenz(a,h)anthracene	30	526		870		200	*	EPA 8270E
Fluoranthene	30	6910		13700		66	*	EPA 8270E
Fluorene	30	597		1060		200	*	EPA 8270E
Indeno(1,2,3-cd)pyrene	30	3200		6160		63	*	EPA 8270E
2-Methylnaphthalene	30	402		809		200	*	EPA 8270E
Naphthalene	30	994		1870		61	*	EPA 8270E
Phenanthrene	30	4510		7860		54	*	EPA 8270E
Pyrene	30	8730		14100		47	*	EPA 8270E

\* Values outside of QC limits



# ANALYSIS BATCH (SEQUENCE) SUMMARY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0H07053

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0H07053-TUN1	N08072008.D	08/07/20 15:49
Initial Cal Blank	0H07053-ICB1	N08072009.D	08/07/20 16:17
Cal Standard	0H07053-CAL1	N08072010.D	08/07/20 16:50
Cal Standard	0H07053-CAL2	N08072011.D	08/07/20 17:23
Cal Standard	0H07053-CAL3	N08072012.D	08/07/20 17:56
Cal Standard	0H07053-CAL4	N08072013.D	08/07/20 18:29
Cal Standard	0H07053-CAL5	N08072014.D	08/07/20 19:02
Cal Standard	0H07053-CAL6	N08072015.D	08/07/20 19:35
Cal Standard	0H07053-CAL7	N08072016.D	08/07/20 20:07
Cal Standard	0H07053-CAL8	N08072017.D	08/07/20 20:40
Cal Standard	0H07053-CAL9	N08072018.D	08/07/20 21:12
Cal Standard	0H07053-CALA	N08072019.D	08/07/20 21:45
Initial Cal Check	0H07053-ICV1	N08072022.D	08/07/20 23:23

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 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J22053

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J22053-TUN1	N10222001.D	10/22/20 15:05
Calibration Check	0J22053-CCV1	N10222003.D	10/22/20 16:05
Calibration Blank	0J22053-CCB1	N10222004.D	10/22/20 16:37
Blank	0100764-BLK1	N10222005.D	10/22/20 17:09
LCS	0100764-BS1	N10222006.D	10/22/20 17:41
USMPDI-054SG-201009	A0J0344-07	N10222007.D	10/22/20 18:14
USMPDI-054SG-201009 (Dup)	0100764-DUP1	N10222008.D	10/22/20 18:46

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 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Lab File ID: N08072008.D

Injection Date: 08/07/20

Instrument ID: SV-GCMS14

Injection Time: 15:49

Sequence: 0H07053

Lab Sample ID: 0H07053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.94	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	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.87	PASS
m/z 365	1 - 100% of m/z 198	4.48	PASS
m/z 441	Less than 150% of m/z 443	77.10	PASS
m/z 442	0.1 - 200% of m/z 198	160.18	PASS
m/z 443	15 - 24% of m/z 442	19.73	PASS

# MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Lab File ID: N10222001.D

Injection Date: 10/22/20

Instrument ID: SV-GCMS14

Injection Time: 15:05

Sequence: 0J22053

Lab Sample ID: 0J22053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.79	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.50	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	6.82	PASS
m/z 365	1 - 100% of m/z 198	4.51	PASS
m/z 441	Less than 150% of m/z 443	77.76	PASS
m/z 442	0.1 - 200% of m/z 198	160.72	PASS
m/z 443	15 - 24% of m/z 442	19.63	PASS

# INITIAL CALIBRATION DATA (Summary)

EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1005

Date: 08/10/20 14:04

Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.224777	Ave	3.28774	9.521667	1.529013E-02			20	
Acenaphthylene	1.676085	Ave	6.64947	9.346666	1.797138E-02			20	
Anthracene	0.8864905	Ave	6.420735	11.072	7.521604E-03			20	
Benz(a)anthracene	0.9997107	Ave	8.090332	14.612	3.897712E-02			20	
Benzo(a)pyrene	0.7351622	Ave	8.286794	17.94644	5.617144E-02			20	
Benzo(b)fluoranthene	1.013983	Ave	4.444269	17.17922	5.423954E-02			20	
Benzo(k)fluoranthene	0.9566106	Ave	6.313553	17.24389	6.995392E-02			20	
Benzo(g,h,i)perylene	1.094263	Ave	7.72528	21.01056	6.176028E-02			20	
Chrysene	1.032987	Ave	2.369351	14.69089	5.186376E-02			20	
Dibenz(a,h)anthracene	1.058201	Ave	3.82909	20.53556	4.836268E-02			20	
Fluoranthene	1.122704	Ave	6.327389	12.26044	1.770666E-02			20	
Fluorene	1.246869	Ave	6.297717	10.04578	1.694453E-02			20	
Indeno(1,2,3-cd)pyrene	1.07625	Ave	3.581026	20.47555	0.0624759			20	
2-Methylnaphthalene	0.7456587	Ave	5.017066	8.443	1.801969E-02			20	
Naphthalene	1.031219	Ave	6.62107	7.761	8.103876E-03			20	
Phenanthrene	1.082295	Ave	5.452007	11.01967	2.384211E-02			20	
Pyrene	1.338996	Ave	10.87983	12.53633	3.221527E-02			20	
2-Fluorobiphenyl (Surr)	1.42981	Ave	3.043226	8.804667	0.021133			20	
p-Terphenyl-d14 (Surr)	0.9614652	Ave	4.151337	12.73078	3.086798E-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 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1005

Instrument: SV-GCMS14

Calibration Date: 08/10/20 14:04

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	1.266588	2	1.259815	5	1.265777	10	1.192073	20	1.235865	50	1.231708
Acenaphthylene	1	1.473633	2	1.566064	5	1.592098	10	1.684731	20	1.685739	50	1.756836
Anthracene	1	0.8682272	2	0.8626834	5	0.8328087	10	0.7750112	20	0.9046703	50	0.9389991
Benz(a)anthracene	1	1.184899	2	1.074494	5	0.9605319	10	0.9221166	20	0.9631404	50	0.963527
Benzo(a)pyrene	1	0.7540831	2	0.6814332	5	0.6490017	10	0.6616363	20	0.7174292	50	0.7561626
Benzo(b)fluoranthene	1	1.008465	2	1.004204	5	0.9228586	10	0.9823829	20	1.012913	50	1.015306
Benzo(k)fluoranthene	1	0.9262896	2	0.85418	5	0.9182004	10	0.919192	20	0.9394501	50	0.9839213
Benzo(b+k)fluoranthene(s)	2	0.9673774	4	0.9991685	10	0.981519	20	1.014628	40	1.033446	100	1.051087
Benzo(g,h,i)perylene	1	1.002955	2	1.024852	5	1.002527	10	1.045448	20	1.075362	50	1.105886
Chrysene	1	1.049666	2	1.051325	5	1.062643	10	1.01291	20	1.045981	50	1.034519
Dibenz(a,h)anthracene	1	1.062196	2	1.058074	5	1.012511	10	1.009203	20	1.045319	50	1.024115
Fluoranthene	1	1.056056	2	1.074463	5	1.057517	10	1.022427	20	1.136697	50	1.169593
Fluorene	1	1.207642	2	1.215405	5	1.185375	10	1.104056	20	1.246986	50	1.30179
Indeno(1,2,3-cd)pyrene	1	1.056685	2	1.049768	5	1.042339	10	1.056869	20	1.057141	50	1.051176
1-Methylnaphthalene	1	0.7088105	2	0.7198507	5	0.7441939	10	0.7430097	20	0.7567288	50	0.7691963
2-Methylnaphthalene	1	0.674944	2	0.7345506	5	0.735525	10	0.7034539	20	0.7538713	50	0.7799008
Naphthalene	1	1.192481	2	1.065522	5	1.023012	10	1.030426	20	1.027633	50	1.001125
Phenanthrene	1	1.194887	2	1.147992	5	1.072126	10	1.061079	20	1.080868	50	1.07704
Pyrene	1	1.284177	2	1.2849	5	1.313924	10	1.6735	20	1.366347	50	1.310469
Carbazole	1	0.5952944	2	0.5751223	5	0.6089076	10	0.5022022	20	0.7240911	50	0.7596221
Dibenzofuran	1	1.495001	2	1.486482	5	1.487576	10	1.397071	20	1.543034	50	1.598791
2-Fluorobiphenyl (Surr)	1	1.376373	2	1.392688	5	1.424779	10	1.394323	20	1.45977	50	1.49245
p-Terphenyl-d14 (Surr)	1	0.9477046	2	0.8995485	5	0.9648729	10	1.002554	20	1.009059	50	0.9827495

# INITIAL CALIBRATION DATA (Continued)

EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1005

Instrument: SV-GCMS14

Matrix:

Calibration Date: 08/10/20 14:04

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	1.219383	200	1.209551	400	<del>1.232999</del>	600	1.142233				
Acenaphthylene	100	1.792244	200	1.80289	400	<del>1.876483</del>	600	1.730527				
Anthracene	100	0.9382494	200	0.9420696	400	<del>0.7901208</del>	600	0.9156957				
Benz(a)anthracene	100	0.9611599	200	0.9726267	400	<del>1.048637</del>	600	0.9949005				
Benzo(a)pyrene	100	0.7782665	200	0.805154	400	<del>0.779903</del>	600	0.8132936				
Benzo(b)fluoranthene	100	1.048428	200	1.053598	400	<del>1.236261</del>	600	1.077695				
Benzo(k)fluoranthene	100	1.002326	200	1.040167	400	<del>1.122845</del>	600	1.025769				
Benzo(b+k)fluoranthene(s)	200	1.07179	400	1.085373	800	<del>1.279903</del>	1200	1.083246				
Benzo(g,h,i)perylene	100	1.171739	200	1.213194	400	<del>1.249126</del>	600	1.206407				
Chrysene	100	1.039442	200	1.016506	400	<del>1.177632</del>	600	0.983888				
Dibenz(a,h)anthracene	100	1.110137	200	1.122575	400	<del>1.227273</del>	600	1.079675				
Fluoranthene	100	1.203197	200	1.211771	400	<del>0.7562554</del>	600	1.172611				
Fluorene	100	1.348499	200	1.339774	400	<del>0.6662483</del>	600	1.272294				
Indeno(1,2,3-cd)pyrene	100	1.095671	200	1.128245	400	<del>1.095863</del>	600	1.148353				
1-Methylnaphthalene	100	0.7690295	200	0.7635127	400	<del>0.5641224</del>	600	0.7411247				
2-Methylnaphthalene	100	0.7823918	200	0.7797779	400	<del>0.5409846</del>	600	0.7665129				
Naphthalene	100	1.004707	200	0.982835	400	<del>1.031776</del>	600	0.9532298				
Phenanthrene	100	1.069398	200	1.050309	400	<del>1.062338</del>	600	0.9869592				
Pyrene	100	1.405048	200	1.277676	400	<del>1.615837</del>	600	1.134926				
Carbazole	100	0.7145441	200	0.7306888	400	<del>0.4921268</del>	600	0.7203112				
Dibenzofuran	100	1.622159	200	1.641018	400	<del>1.146223</del>	600	1.587827				
2-Fluorobiphenyl (Surr)	100	1.471634	200	1.467201	400	<del>1.885155</del>	600	1.389068				
p-Terphenyl-d14 (Surr)	100	0.9901441	200	0.9535586	400	<del>1.311325</del>	600	0.9029958				

# SECOND-SOURCE CALIBRATION VERIFICATION

## EPA 8270E

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>
Instrument ID: <u>SV-GCMS14</u>	Calibration: <u>A0H1005</u>
Lab File ID: <u>N08072022.D</u>	
Sequence: <u>0H07053</u>	Inject Date: <u>08/07/20</u>
Lab Sample ID: <u>0H07053-ICV1</u>	Inject Time: <u>23:23</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	49.6	-0.8	70 - 130
Acenaphthylene	50.0	52.1	4.2	70 - 130
Anthracene	50.0	52.8	5.7	70 - 130
Benz(a)anthracene	50.0	46.0	-8.0	70 - 130
Benzo(a)pyrene	50.0	56.6	13.2	70 - 130
Benzo(b)fluoranthene	50.0	49.2	-1.6	70 - 130
Benzo(k)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(g,h,i)perylene	50.0	51.2	2.4	70 - 130
Chrysene	50.0	48.9	-2.3	70 - 130
Dibenz(a,h)anthracene	50.0	49.2	-1.7	70 - 130
Fluoranthene	50.0	53.0	6.0	70 - 130
Fluorene	50.0	50.7	1.4	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	46.6	-6.9	70 - 130
2-Methylnaphthalene	50.0	50.7	1.4	70 - 130
Naphthalene	50.0	48.3	-3.4	70 - 130
Phenanthrene	50.0	49.2	-1.6	70 - 130
Pyrene	50.0	51.2	2.3	70 - 130
2-Fluorobiphenyl (Surr)	50.0	50.2	0.5	70 - 130
p-Terphenyl-d14 (Surr)	50.0	50.3	0.6	70 - 130



# CONTINUING CALIBRATION CHECK

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: SV-GCMS14

Calibration: A0H1005

Lab File ID: N10222003.D

Calibration Date: 08/10/20 14:04

Sequence: 0J22053

Injection Date: 10/22/20

Lab Sample ID: 0J22053-CCV1

Injection Time: 16:05

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	100	96.7		1.224777	1.184135	-3.3	20
Acenaphthylene	Ave	100	106		1.676085	1.784882	6.5	20
Anthracene	Ave	100	105		0.8864905	0.9325771	5.2	20
Benz(a)anthracene	Ave	100	95.4		0.9997107	0.9532689	-4.6	20
Benzo(a)pyrene	Ave	100	102		0.7351622	0.7464633	1.5	20
Benzo(b)fluoranthene	Ave	100	97.9		1.013983	0.9926438	-2.1	20
Benzo(k)fluoranthene	Ave	100	105		0.9566106	1.003004	4.8	20
Benzo(g,h,i)perylene	Ave	100	99.5		1.094263	1.088328	-0.5	20
Chrysene	Ave	100	99.5		1.032987	1.027407	-0.5	20
Dibenz(a,h)anthracene	Ave	100	94.8		1.058201	1.003381	-5.2	20
Fluoranthene	Ave	100	99.5		1.122704	1.116698	-0.5	20
Fluorene	Ave	100	101		1.246869	1.262232	1.2	20
Indeno(1,2,3-cd)pyrene	Ave	100	93.6		1.07625	1.006823	-6.5	20
2-Methylnaphthalene	Ave	100	99.6		0.7456587	0.7428067	-0.4	20
Naphthalene	Ave	100	94.7		1.031219	0.97672	-5.3	20
Phenanthrene	Ave	100	96.9		1.082295	1.048535	-3.1	20
Pyrene	Ave	100	101		1.338996	1.348332	0.7	20

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

\* = Values outside of QC limits

# SURROGATE STANDARD RECOVERY AND RT SUMMARY

## EPA 8270E

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>
Sequence: <u>0H07053</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0H1005</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (0H07053-ICV1 )</b>			Lab File ID: N08072022.D		Analyzed: 08/07/20 23:23			
2-Fluorobiphenyl (Surr)	50.0	100	70 - 130	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	101	70 - 130	12.733	12.73078	0.0022	+/-1.0	

# SURROGATE STANDARD RECOVERY AND RT SUMMARY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J22053

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (0J22053-CCV1 )</b>			Lab File ID: N10222003.D		Analyzed: 10/22/20 16:05			
2-Fluorobiphenyl (Surr)	100	103	80 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	100	106	80 - 120	12.732	12.73078	0.0012	+/-1.0	
<b>Calibration Blank (0J22053-CCB1 )</b>			Lab File ID: N10222004.D		Analyzed: 10/22/20 16:37			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.804667	-8.8047	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.733	12.73078	0.0022	+/-1.0	
<b>Blank (0100764-BLK1 )</b>			Lab File ID: N10222005.D		Analyzed: 10/22/20 17:09			
2-Fluorobiphenyl (Surr)	45.5	91	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	108	54 - 127	12.733	12.73078	0.0022	+/-1.0	
<b>LCS (0100764-BS1 )</b>			Lab File ID: N10222006.D		Analyzed: 10/22/20 17:41			
2-Fluorobiphenyl (Surr)	50.0	94	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	106	54 - 127	12.727	12.73078	-0.0038	+/-1.0	
<b>USMPDI-054SG-201009 (A0J0344-07 )</b>			Lab File ID: N10222007.D		Analyzed: 10/22/20 18:14			
2-Fluorobiphenyl (Surr)	127	78	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	127	96	54 - 127	12.733	12.73078	0.0022	+/-1.0	
<b>Duplicate (0100764-DUP1 )</b>			Lab File ID: N10222008.D		Analyzed: 10/22/20 18:46			
2-Fluorobiphenyl (Surr)	128	74	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	128	98	54 - 127	12.727	12.73078	-0.0038	+/-1.0	

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

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 0J22053  
 Matrix: Sediment

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Instrument: SV-GCMS14  
 Calibration: A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (0J22053-CCV1)</b>			Lab File ID: N10222003.D			Analyzed: 10/22/20 16:05			
Naphthalene-d8 (ISTD)	262328	7.743	239628	7.737	109	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	160377	9.492	160491	9.492	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	305267	10.996	310167	10.996	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	260148	14.633	274150	14.633	95	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	221037	18.083	244609	18.083	90	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	163573	20.467	188292	20.467	87	50 - 200	0.0000	+/-0.50	
<b>Calibration Blank (0J22053-CCB1)</b>			Lab File ID: N10222004.D			Analyzed: 10/22/20 16:37			
Naphthalene-d8 (ISTD)	242049	7.743	262328	7.743	92	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	152210	9.492	160377	9.492	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	281216	10.996	305267	10.996	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	206900	14.633	260148	14.633	80	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	185109	18.083	221037	18.083	84	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	158429	20.467	163573	20.467	97	50 - 200	0.0000	+/-0.50	
<b>Blank (0100764-BLK1)</b>			Lab File ID: N10222005.D			Analyzed: 10/22/20 17:09			
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	108	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	121	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	141	50 - 200	0.0000	+/-0.50	
<b>LCS (0100764-BS1)</b>			Lab File ID: N10222006.D			Analyzed: 10/22/20 17:41			
Naphthalene-d8 (ISTD)	250949	7.737	262328	7.743	96	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	165335	9.492	160377	9.492	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	326376	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	292477	14.633	260148	14.633	112	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	266297	18.083	221037	18.083	120	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	216323	20.461	163573	20.467	132	50 - 200	-0.0060	+/-0.50	
<b>USMPDI-054SG-201009 (A0J0344-07)</b>			Lab File ID: N10222007.D			Analyzed: 10/22/20 18:14			
Naphthalene-d8 (ISTD)	265841	7.743	262328	7.743	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	159251	9.492	160377	9.492	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	296372	10.996	305267	10.996	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	265657	14.633	260148	14.633	102	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	251389	18.083	221037	18.083	114	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	206744	20.467	163573	20.467	126	50 - 200	0.0000	+/-0.50	

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

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 0J22053  
 Matrix: Sediment

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Instrument: SV-GCMS14  
 Calibration: A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Duplicate (0100764-DUP1 )</b>			Lab File ID: N10222008.D			Analyzed: 10/22/20 18:46			
Naphthalene-d8 (ISTD)	255913	7.737	262328	7.743	98	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	166139	9.492	160377	9.492	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	327117	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	315304	14.633	260148	14.633	121	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	310832	18.083	221037	18.083	141	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	253664	20.467	163573	20.467	155	50 - 200	0.0000	+/-0.50	
<b>Matrix Spike (0100764-MS1 )</b>			Lab File ID: N10222010.D			Analyzed: 10/22/20 19:50			
Naphthalene-d8 (ISTD)	251515	7.738	262328	7.743	96	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	163680	9.492	160377	9.492	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	319187	10.996	305267	10.996	105	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	310634	14.633	260148	14.633	119	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	307981	18.083	221037	18.083	139	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	258683	20.461	163573	20.467	158	50 - 200	-0.0060	+/-0.50	

# HOLDING TIME SUMMARY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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
USMPDI-054SG-201009	10/09/20 14:50	10/10/20 07:30	10/22/20 10:40	12.83	14.00	10/22/20 18:14	0.32	40.00	

# Apex Laboratories

SDG: A0J0344  
CLASS: WET  
METHOD: D7511-12

# ANALYSES DATA PACKAGE COVER PAGE

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>USMPDI-041SG-201009</u>	<u>A0J0344-01</u>	<u>SE</u>
<u>USMPDI-042SG-201009</u>	<u>A0J0344-02</u>	<u>SE</u>
<u>USMPDI-043SG-201009</u>	<u>A0J0344-03</u>	<u>SE</u>
<u>USMPDI-047SG-201009</u>	<u>A0J0344-04</u>	<u>SE</u>
<u>USMPDI-050SG-201009</u>	<u>A0J0344-05</u>	<u>SE</u>
<u>USMPDI-051SG-201009</u>	<u>A0J0344-06</u>	<u>SE</u>
<u>USMPDI-054SG-201009</u>	<u>A0J0344-07</u>	<u>SE</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: \_\_\_\_\_

1/6/2021 1:43PM

Title: \_\_\_\_\_

Technical Manager



# METHOD DETECTION AND REPORTING LIMITS

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch Matrix: Soil

Analyte	MDL	MRL	Units
Total Cyanide	0.0500	0.100	mg/kg

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

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-041SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-01RE1

File ID: 0J14043A-071

Sampled: 10/09/20 00:00

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 18:13

Solids: 35.77

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.551 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	2.61	2	D	D7511-12

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-042SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-02RE1

File ID: 0J14043A-073

Sampled: 10/09/20 13:43

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 18:17

Solids: 38.04

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5113 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	3.51	5	D	D7511-12

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-043SG-201009
---------------------

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-03RE2

File ID: 0J14043A-084

Sampled: 10/09/20 09:03

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 18:51

Solids: 35.77

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5421 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	3.30	2	D	D7511-12

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-047SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-04

File ID: 0J14043A-061

Sampled: 10/09/20 15:56

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 17:40

Solids: 37.78

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5156 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	15.1	10	D	D7511-12

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-050SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-05

File ID: 0J14043A-063

Sampled: 10/09/20 09:52

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 17:44

Solids: 35.25

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5015 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	17.3	10	D	D7511-12

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-051SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-06RE1

File ID: 0J14043A-076

Sampled: 10/09/20 10:58

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 18:23

Solids: 36.28

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5054 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	28.7	20	D	D7511-12

# INORGANIC ANALYSIS DATA SHEET

D7511-12

USMPDI-054SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-07RE2

File ID: 0J14043A-086

Sampled: 10/09/20 14:50

Prepared: 10/12/20 09:47

Analyzed: 10/14/20 18:55

Solids: 38.75

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5765 g / 50 mL

Batch: 0100373

Sequence: 0J14043

Calibration: A0J1504

Instrument: OIA FS3000-2

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Total Cyanide	303	200	D	D7511-12



# PREPARATION BATCH SUMMARY

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch: 0100373 Batch Matrix: Soil

Preparation: ASTM D7511-12mod (S)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100373-BLK1	0J13039A-041	10/12/20 09:47	
LCS	0100373-BS1	0J13039A-042	10/12/20 09:47	
USMPDI-041SG-201009	A0J0344-01RE1	0J14043A-071	10/12/20 09:47	
USMPDI-042SG-201009	A0J0344-02RE1	0J14043A-073	10/12/20 09:47	
USMPDI-043SG-201009	A0J0344-03RE2	0J14043A-084	10/12/20 09:47	
USMPDI-047SG-201009	A0J0344-04	0J14043A-061	10/12/20 09:47	
USMPDI-050SG-201009	A0J0344-05	0J14043A-063	10/12/20 09:47	
USMPDI-051SG-201009	A0J0344-06RE1	0J14043A-076	10/12/20 09:47	
USMPDI-054SG-201009	A0J0344-07RE2	0J14043A-086	10/12/20 09:47	

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

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

# METHOD BLANK DATA SHEET

D7511-12

Laboratory: Apex Laboratories SDG: A0J0344  
Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4  
Matrix: Soil Laboratory ID: 0100373-BLK1 File ID: 0J13039A-041  
Prepared: 10/12/20 09:47 Preparation: ASTM D7511-12mod (S) Initial/Final: 2.5 g / 50 mL  
Analyzed: 10/13/20 11:57 Instrument: OIA FS3000-2  
Batch: 0100373 Sequence: 0J13039 Calibration: A0J1302

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
57-12-5	Total Cyanide	0.0500	U

# LCS / LCS DUPLICATE RECOVERY

## D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Soil

Batch: 0100373

Laboratory ID: 0100373-BS1

Preparation: ASTM D7511-12mod (S)

Initial/Final: 2.5 g / 50 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. (* = Out)	QC LIMITS REC.
Total Cyanide	0.400	0.363	91	84 - 116

\* = Values outside of QC limits

# ANALYSIS BATCH (SEQUENCE) SUMMARY

**D7511-12**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J13039

Instrument: OIA FS3000-2

Matrix: Soil

Calibration: A0J1302

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J13039-CAL2	0J13039A-008	10/13/20 10:51
Cal Standard	0J13039-CAL3	0J13039A-009	10/13/20 10:53
Cal Standard	0J13039-CAL4	0J13039A-010	10/13/20 10:55
Cal Standard	0J13039-CAL5	0J13039A-011	10/13/20 10:57
Cal Standard	0J13039-CAL6	0J13039A-012	10/13/20 10:59
Cal Standard	0J13039-CAL7	0J13039A-013	10/13/20 11:01
Initial Cal Check	0J13039-ICV1	0J13039A-016	10/13/20 11:07
Initial Cal Blank	0J13039-ICB1	0J13039A-017	10/13/20 11:09
Calibration Check	0J13039-CCV1	0J13039A-034	10/13/20 11:43
Calibration Blank	0J13039-CCB1	0J13039A-035	10/13/20 11:45
Blank	0100373-BLK1	0J13039A-041	10/13/20 11:57
LCS	0100373-BS1	0J13039A-042	10/13/20 11:59
Calibration Check	0J13039-CCV2	0J13039A-052	10/13/20 12:19
Calibration Blank	0J13039-CCB2	0J13039A-053	10/13/20 12:21
Calibration Check	0J13039-CCV3	0J13039A-069	10/13/20 12:53
Calibration Blank	0J13039-CCB3	0J13039A-070	10/13/20 12:55

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

**D7511-12**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J14043

Instrument: OIA FS3000-2

Matrix: Soil

Calibration: A0J1504

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J14043-CAL2	0J14043A-008	10/14/20 15:54
Cal Standard	0J14043-CAL3	0J14043A-009	10/14/20 15:56
Cal Standard	0J14043-CAL4	0J14043A-010	10/14/20 15:58
Cal Standard	0J14043-CAL5	0J14043A-011	10/14/20 16:00
Cal Standard	0J14043-CAL6	0J14043A-012	10/14/20 16:02
Cal Standard	0J14043-CAL7	0J14043A-013	10/14/20 16:04
Initial Cal Check	0J14043-ICV1	0J14043A-016	10/14/20 16:10
Initial Cal Blank	0J14043-ICB1	0J14043A-017	10/14/20 16:12
Calibration Check	0J14043-CCV1	0J14043A-035	10/14/20 16:48
Calibration Blank	0J14043-CCB1	0J14043A-036	10/14/20 16:50
Calibration Check	0J14043-CCV2	0J14043A-052	10/14/20 17:22
Calibration Blank	0J14043-CCB2	0J14043A-053	10/14/20 17:24
USMPDI-047SG-201009	A0J0344-04	0J14043A-061	10/14/20 17:40
USMPDI-050SG-201009	A0J0344-05	0J14043A-063	10/14/20 17:44
Calibration Check	0J14043-CCV3	0J14043A-067	10/14/20 17:52
Calibration Blank	0J14043-CCB3	0J14043A-068	10/14/20 17:54
USMPDI-041SG-201009	A0J0344-01RE1	0J14043A-071	10/14/20 18:13
USMPDI-042SG-201009	A0J0344-02RE1	0J14043A-073	10/14/20 18:17
USMPDI-051SG-201009	A0J0344-06RE1	0J14043A-076	10/14/20 18:23
Calibration Check	0J14043-CCV4	0J14043A-081	10/14/20 18:33
Calibration Blank	0J14043-CCB4	0J14043A-082	10/14/20 18:35
USMPDI-043SG-201009	A0J0344-03RE2	0J14043A-084	10/14/20 18:51
USMPDI-054SG-201009	A0J0344-07RE2	0J14043A-086	10/14/20 18:55
Calibration Check	0J14043-CCV5	0J14043A-088	10/14/20 18:59
Calibration Blank	0J14043-CCB5	0J14043A-089	10/14/20 19:01

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)

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J1302

Date: 10/13/20 09:59

Instrument: OIA FS3000-2

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Cyanide	46594.56	Q **	7.994008				0.9998461		

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

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J1302

Instrument: OIA FS3000-2

Calibration Date: 10/13/20 09:59

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Total Cyanide	1	53573	2	47776.5	5	44227	10	43426.1	25	45587.24	50	44977.5

# INITIAL CALIBRATION DATA (Summary)

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J1504

Date: 10/15/20 12:47

Instrument: OIA FS3000-2

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Cyanide	31252.31	Q **	51.65822				0.9995985		

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

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0J1504

Instrument: OIA FS3000-2

Calibration Date: 10/15/20 12:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Total Cyanide	1	5383	2	19095.5	5	32523.8	10	38726.4	25	45744.12	50	46041.02

# INITIAL AND CONTINUING CALIBRATION CHECK

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: OIA FS3000-2

Calibration: A0J1302

Control Limit: +/- 10.00%

Sequence: 0J13039

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0J13039-ICV1	Total Cyanide	25.0	23.5	94	ug/L	D7511-12
0J13039-CCV1	Total Cyanide	25.0	24.5	98	ug/L	D7511-12
0J13039-CCV2	Total Cyanide	25.0	23.4	94	ug/L	D7511-12
0J13039-CCV3	Total Cyanide	25.0	20.7	83 *	ug/L	D7511-12

\* Values outside of OC limits

# INITIAL AND CONTINUING CALIBRATION CHECK

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: OIA FS3000-2

Calibration: A0J1504

Control Limit: +/- 10.00%

Sequence: 0J14043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0J14043-ICV1	Total Cyanide	25.0	24.8	99	ug/L	D7511-12
0J14043-CCV1	Total Cyanide	25.0	26.8	107	ug/L	D7511-12
0J14043-CCV2	Total Cyanide	25.0	27.1	108	ug/L	D7511-12
0J14043-CCV3	Total Cyanide	25.0	27.3	109	ug/L	D7511-12
0J14043-CCV4	Total Cyanide	25.0	26.3	105	ug/L	D7511-12
0J14043-CCV5	Total Cyanide	25.0	25.5	102	ug/L	D7511-12

\* Values outside of OC limits

# INSTRUMENT BLANKS

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Instrument ID: OIA FS3000-2

Project: US Moorings -- C2, C3, C4

Sequence: 0J13039

Calibration: A0J1302

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0J13039-ICB1	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J13039-CCB1	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J13039-CCB2	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J13039-CCB3	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12

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

# INSTRUMENT BLANKS

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Instrument ID: OIA FS3000-2

Project: US Moorings -- C2, C3, C4

Sequence: 0J14043

Calibration: A0J1504

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0J14043-ICB1	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J14043-CCB1	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J14043-CCB2	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J14043-CCB3	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J14043-CCB4	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12
0J14043-CCB5	Total Cyanide	ND	2.50 (Inst)	ug/L		D7511-12

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

# HOLDING TIME SUMMARY

D7511-12

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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
USMPDI-041SG-201009	10/09/20 00:00	10/10/20 07:30	10/12/20 09:47	3.41	14.00	10/14/20 18:13	5.76	14.00	
USMPDI-042SG-201009	10/09/20 13:43	10/10/20 07:30	10/12/20 09:47	2.84	14.00	10/14/20 18:17	5.19	14.00	
USMPDI-043SG-201009	10/09/20 09:03	10/10/20 07:30	10/12/20 09:47	3.03	14.00	10/14/20 18:51	5.41	14.00	
USMPDI-047SG-201009	10/09/20 15:56	10/10/20 07:30	10/12/20 09:47	2.74	14.00	10/14/20 17:40	5.07	14.00	
USMPDI-050SG-201009	10/09/20 09:52	10/10/20 07:30	10/12/20 09:47	3.00	14.00	10/14/20 17:44	5.33	14.00	
USMPDI-051SG-201009	10/09/20 10:58	10/10/20 07:30	10/12/20 09:47	2.95	14.00	10/14/20 18:23	5.31	14.00	
USMPDI-054SG-201009	10/09/20 14:50	10/10/20 07:30	10/12/20 09:47	2.79	14.00	10/14/20 18:55	5.17	14.00	

# Apex Laboratories

SDG: A0J0344

CLASS: WET

METHOD: PSEP\_SM 5310B MOD

**ANALYSES DATA PACKAGE COVER PAGE**

**PSEP\_SM 5310B MOD**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

---

<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>USMPDI-041SG-201009</u>	<u>A0J0344-01</u>	<u>SE</u>
<u>USMPDI-042SG-201009</u>	<u>A0J0344-02</u>	<u>SE</u>
<u>USMPDI-043SG-201009</u>	<u>A0J0344-03</u>	<u>SE</u>
<u>USMPDI-047SG-201009</u>	<u>A0J0344-04</u>	<u>SE</u>
<u>USMPDI-050SG-201009</u>	<u>A0J0344-05</u>	<u>SE</u>
<u>USMPDI-051SG-201009</u>	<u>A0J0344-06</u>	<u>SE</u>
<u>USMPDI-054SG-201009</u>	<u>A0J0344-07</u>	<u>SE</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: \_\_\_\_\_

1/6/2021 1:43PM

Title: \_\_\_\_\_

Technical Manager



# METHOD DETECTION AND REPORTING LIMITS

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch Matrix: Soil

Analyte	MDL	MRL	Units
Total Organic Carbon	0.020	0.020	%

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

**INORGANIC ANALYSIS DATA SHEET**  
**PSEP\_SM 5310B MOD**

USMPDI-041SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-01

File ID: 0J13056.txt-020

Sampled: 10/09/20 00:00

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 20:16

Solids: 35.77

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.4	1		PSEP_SM 5310B MOD

**INORGANIC ANALYSIS DATA SHEET**  
**PSEP\_SM 5310B MOD**

USMPDI-042SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-02

File ID: 0J13056.txt-022

Sampled: 10/09/20 13:43

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 20:38

Solids: 38.04

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.0	1		PSEP_SM 5310B MOD

**INORGANIC ANALYSIS DATA SHEET**  
**PSEP\_SM 5310B MOD**

USMPDI-043SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-03

File ID: 0J13056.txt-023

Sampled: 10/09/20 09:03

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 20:49

Solids: 35.77

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.2	1		PSEP_SM 5310B MOD

# INORGANIC ANALYSIS DATA SHEET

PSEP\_SM 5310B MOD

USMPDI-047SG-201009
---------------------

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-04

File ID: 0J13056.txt-024

Sampled: 10/09/20 15:56

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 20:59

Solids: 37.78

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	2.6	1		PSEP_SM 5310B MOD

# INORGANIC ANALYSIS DATA SHEET

PSEP\_SM 5310B MOD

USMPDI-050SG-201009
---------------------

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-05

File ID: 0J13056.txt-025

Sampled: 10/09/20 09:52

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 21:10

Solids: 35.25

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.1	1		PSEP_SM 5310B MOD

**INORGANIC ANALYSIS DATA SHEET**  
**PSEP\_SM 5310B MOD**

USMPDI-051SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-06

File ID: 0J13056.txt-026

Sampled: 10/09/20 10:58

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 21:21

Solids: 36.28

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.2	1		PSEP_SM 5310B MOD

# INORGANIC ANALYSIS DATA SHEET

PSEP\_SM 5310B MOD

USMPDI-054SG-201009
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Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-07

File ID: 0J13056.txt-029

Sampled: 10/09/20 14:50

Prepared: 10/12/20 11:41

Analyzed: 10/13/20 21:54

Solids: 38.75

Preparation: PSEP-5310B TOC

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

Batch: 0100381

Sequence: 0J13056

Calibration: A0H1904

Instrument: TOC6

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	Q	Method
TOC	Total Organic Carbon	3.0	1		PSEP_SM 5310B MOD



# PREPARATION BATCH SUMMARY

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch: 0100381 Batch Matrix: Soil

Preparation: PSEP-5310B TOC

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100381-BLK1	0J13056.txt-005	10/12/20 11:41	
LCS	0100381-BS1	0J13056.txt-006	10/12/20 11:41	
USMPDI-041SG-201009 (Dup)	0100381-DUP3	0J13056.txt-021	10/12/20 11:41	
USMPDI-041SG-201009	A0J0344-01	0J13056.txt-020	10/12/20 11:41	
USMPDI-042SG-201009	A0J0344-02	0J13056.txt-022	10/12/20 11:41	
USMPDI-043SG-201009	A0J0344-03	0J13056.txt-023	10/12/20 11:41	
USMPDI-047SG-201009	A0J0344-04	0J13056.txt-024	10/12/20 11:41	
USMPDI-050SG-201009	A0J0344-05	0J13056.txt-025	10/12/20 11:41	
USMPDI-051SG-201009	A0J0344-06	0J13056.txt-026	10/12/20 11:41	
USMPDI-054SG-201009	A0J0344-07	0J13056.txt-029	10/12/20 11:41	

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**  
**PSEP\_SM 5310B MOD**

Laboratory: Apex Laboratories SDG: A0J0344  
Client: Anchor QEA, LLC Project: US Moorings -- C2, C3, C4  
Matrix: Soil Laboratory ID: 0100381-BLK1 File ID: 0J13056.txt-005  
Prepared: 10/12/20 11:41 Preparation: PSEP-5310B TOC Initial/Final: 0.2 N/A / 0.2 N/A  
Analyzed: 10/13/20 17:34 Instrument: TOC6  
Batch: 0100381 Sequence: 0J13056 Calibration: A0H1904

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

**LCS / LCS DUPLICATE RECOVERY**  
**PSEP\_SM 5310B MOD**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Soil

Batch: 0100381

Laboratory ID: 0100381-BS1

Preparation: PSEP-5310B TOC

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

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	LCS % REC. (* = Out)	QC LIMITS REC.
Total Organic Carbon	10000	9500	95	88 - 111

\* = Values outside of QC limits

**DUPLICATES**  
**PSEP\_SM 5310B MOD**

<b>USMPDI-041SG-201009</b>
----------------------------

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Matrix: Soil  
 Batch: 0100381  
 Preparation: PSEP-5310B TOC  
 Source Sample Name: USMPDI-041SG-201009

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Laboratory ID: 0100381-DUP3  
 Lab Source ID: A0J0344-01  
 Initial/Final: 0.2 N/A / 0.2 N/A  
 % Solids: 35.77

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (% dry)	C	DUPLICATE CONCENTRATION (% dry)	C	RPD %	Q	METHOD
Total Organic Carbon	27	3.4		3.4		2		SEP_SM 5310B MOI

\* Values outside of QC limits

**ANALYSIS BATCH (SEQUENCE) SUMMARY**

**PSEP\_SM 5310B MOD**

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>
Sequence: <u>0H18059</u>	Instrument: <u>TOC6</u>
Matrix: <u>Soil</u>	Calibration: <u>A0H1904</u>

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0H18059-CAL2	0H18059.txt-005	08/18/20 17:43
Cal Standard	0H18059-CAL3	0H18059.txt-006	08/18/20 17:53
Cal Standard	0H18059-CAL4	0H18059.txt-007	08/18/20 18:04
Cal Standard	0H18059-CAL5	0H18059.txt-008	08/18/20 18:15
Cal Standard	0H18059-CAL6	0H18059.txt-009	08/18/20 18:26
Cal Standard	0H18059-CAL7	0H18059.txt-010	08/18/20 18:37
Cal Standard	0H18059-CAL8	0H18059.txt-011	08/18/20 18:47
Cal Standard	0H18059-CAL9	0H18059.txt-012	08/18/20 18:58
Initial Cal Check	0H18059-ICV1	0H18059.txt-014	08/18/20 19:20
Initial Cal Blank	0H18059-ICB1	0H18059.txt-015	08/18/20 19:31

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

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

**ANALYSIS BATCH (SEQUENCE) SUMMARY**  
**PSEP\_SM 5310B MOD**

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 0J13056  
 Matrix: Soil

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Instrument: TOC6  
 Calibration: A0H1904

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	0J13056-CCV1	0J13056.txt-003	10/13/20 17:13
Calibration Blank	0J13056-CCB1	0J13056.txt-004	10/13/20 17:24
Blank	0100381-BLK1	0J13056.txt-005	10/13/20 17:34
LCS	0100381-BS1	0J13056.txt-006	10/13/20 17:45
Calibration Check	0J13056-CCV2	0J13056.txt-015	10/13/20 19:22
Calibration Blank	0J13056-CCB2	0J13056.txt-016	10/13/20 19:33
USMPDI-041SG-201009	A0J0344-01	0J13056.txt-020	10/13/20 20:16
USMPDI-041SG-201009 (Dup)	0100381-DUP3	0J13056.txt-021	10/13/20 20:27
USMPDI-042SG-201009	A0J0344-02	0J13056.txt-022	10/13/20 20:38
USMPDI-043SG-201009	A0J0344-03	0J13056.txt-023	10/13/20 20:49
USMPDI-047SG-201009	A0J0344-04	0J13056.txt-024	10/13/20 20:59
USMPDI-050SG-201009	A0J0344-05	0J13056.txt-025	10/13/20 21:10
USMPDI-051SG-201009	A0J0344-06	0J13056.txt-026	10/13/20 21:21
Calibration Check	0J13056-CCV3	0J13056.txt-027	10/13/20 21:32
Calibration Blank	0J13056-CCB3	0J13056.txt-028	10/13/20 21:43
USMPDI-054SG-201009	A0J0344-07	0J13056.txt-029	10/13/20 21:54
Calibration Check	0J13056-CCV4	0J13056.txt-039	10/13/20 23:41
Calibration Blank	0J13056-CCB4	0J13056.txt-040	10/13/20 23:52
Calibration Check	0J13056-CCV5	0J13056.txt-051	10/14/20 01:52
Calibration Blank	0J13056-CCB5	0J13056.txt-052	10/14/20 02:03
Calibration Check	0J13056-CCV6	0J13056.txt-056	10/14/20 02:46
Calibration Blank	0J13056-CCB6	0J13056.txt-057	10/14/20 02:57

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

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

# INITIAL CALIBRATION DATA (Summary)

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1904

Date: 08/19/20 16:15

Instrument: TOC6

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Total Organic Carbon	138.9486	Lin	5.543524			0.99974			

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**  
**PSEP\_SM 5310B MOD**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1904

Instrument: TOC6

Calibration Date: 08/19/20 16:15

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	152.6808	500	143.8895	1000	143.7313	2500	130.8668	5000	130.5313	12500	139.2529
Total Organic Carbon	200	152.6808	500	143.8895	1000	143.7313	2500	130.8668	5000	130.5313	12500	139.2529



# INITIAL CALIBRATION DATA (Continued)

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1904

Instrument: TOC6

Matrix:

Calibration Date: 08/19/20 16:15

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	138.2198	50000	132.4167								
Total Organic Carbon	25000	138.2198	50000	132.4167								

# INITIAL AND CONTINUING CALIBRATION CHECK

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: TOC6

Calibration: A0H1904

Control Limit: +/- 10.00%

Sequence: 0H18059

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0H18059-ICV1	Total Organic Carbon	10000	9800	98	mg/kg	SEP_SM 5310B MOI

\* Values outside of QC limits

# INITIAL AND CONTINUING CALIBRATION CHECK

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: TOC6

Calibration: A0H1904

Control Limit: +/- 10.00%

Sequence: 0J13056

Lab Sample ID	Analyte	True	Found	%R	Units	Method
0J13056-CCV1	Total Organic Carbon	10000	11000	106	mg/kg	SEP_SM 5310B MOI
0J13056-CCV2	Total Organic Carbon	10000	9600	96	mg/kg	SEP_SM 5310B MOI
0J13056-CCV3	Total Organic Carbon	10000	9700	97	mg/kg	SEP_SM 5310B MOI
0J13056-CCV4	Total Organic Carbon	10000	9500	95	mg/kg	SEP_SM 5310B MOI
0J13056-CCV5	Total Organic Carbon	10000	9600	96	mg/kg	SEP_SM 5310B MOI
0J13056-CCV6	Total Organic Carbon	10000	9400	94	mg/kg	SEP_SM 5310B MOI

\* Values outside of OC limits

# INSTRUMENT BLANKS

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Instrument ID: TOC6

Project: US Moorings -- C2, C3, C4

Sequence: 0H18059

Calibration: A0H1904

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0H18059-ICB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD

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

**INSTRUMENT BLANKS**  
**PSEP\_SM 5310B MOD**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Instrument ID: TOC6

Project: US Moorings -- C2, C3, C4

Sequence: 0J13056

Calibration: A0H1904

Lab Sample ID	Analyte	Found	RL	Units	C	Method
0J13056-CCB1	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J13056-CCB2	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J13056-CCB3	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J13056-CCB4	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J13056-CCB5	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD
0J13056-CCB6	Total Organic Carbon	ND	200 (Inst)	mg/kg		PSEP_SM 5310B MOD

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

# HOLDING TIME SUMMARY

## PSEP\_SM 5310B MOD

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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
USMPDI-041SG-201009	10/09/20 00:00	10/10/20 07:30	10/12/20 11:41	3.49	28.00	10/13/20 20:16	4.85	28.00	
USMPDI-042SG-201009	10/09/20 13:43	10/10/20 07:30	10/12/20 11:41	2.92	28.00	10/13/20 20:38	4.29	28.00	
USMPDI-043SG-201009	10/09/20 09:03	10/10/20 07:30	10/12/20 11:41	3.11	28.00	10/13/20 20:49	4.49	28.00	
USMPDI-047SG-201009	10/09/20 15:56	10/10/20 07:30	10/12/20 11:41	2.82	28.00	10/13/20 20:59	4.21	28.00	
USMPDI-050SG-201009	10/09/20 09:52	10/10/20 07:30	10/12/20 11:41	3.08	28.00	10/13/20 21:10	4.47	28.00	
USMPDI-051SG-201009	10/09/20 10:58	10/10/20 07:30	10/12/20 11:41	3.03	28.00	10/13/20 21:21	4.43	28.00	
USMPDI-054SG-201009	10/09/20 14:50	10/10/20 07:30	10/12/20 11:41	2.87	28.00	10/13/20 21:54	4.29	28.00	

# Apex Laboratories

SDG: A0J0344

CLASS: WET

METHOD: SM 2540 G

**ANALYSES DATA PACKAGE COVER PAGE**

**SM 2540 G**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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<b>Client Sample Id:</b>	<b>Lab Sample Id:</b>	<b>Matrix</b>
<u>USMPDI-041SG-201009</u>	<u>A0J0344-01</u>	<u>SE</u>
<u>USMPDI-042SG-201009</u>	<u>A0J0344-02</u>	<u>SE</u>
<u>USMPDI-043SG-201009</u>	<u>A0J0344-03</u>	<u>SE</u>
<u>USMPDI-047SG-201009</u>	<u>A0J0344-04</u>	<u>SE</u>
<u>USMPDI-050SG-201009</u>	<u>A0J0344-05</u>	<u>SE</u>
<u>USMPDI-051SG-201009</u>	<u>A0J0344-06</u>	<u>SE</u>
<u>USMPDI-054SG-201009</u>	<u>A0J0344-07</u>	<u>SE</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: \_\_\_\_\_

1/6/2021 1:43PM

Title: \_\_\_\_\_

Technical Manager



# METHOD DETECTION AND REPORTING LIMITS

## SM 2540 G

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch Matrix: Sediment

Analyte	MDL	MRL	Units
Total Solids	1.00	1.00	%

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

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-041SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-01

Sampled: 10/09/20 00:00

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 35.77

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	35.8	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-042SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-02

Sampled: 10/09/20 13:43

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 38.04

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	38.0	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-043SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-03

Sampled: 10/09/20 09:03

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 35.77

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	35.8	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-047SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-04

Sampled: 10/09/20 15:56

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 37.78

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	37.8	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-050SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-05

Sampled: 10/09/20 09:52

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 35.25

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	35.2	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-051SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-06

Sampled: 10/09/20 10:58

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 36.28

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	36.3	1		SM 2540 G

# INORGANIC ANALYSIS DATA SHEET

SM 2540 G

USMPDI-054SG-201009

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: SE

Laboratory ID: A0J0344-07

Sampled: 10/09/20 14:50

Prepared: 10/12/20 10:19

Analyzed: 10/13/20 15:26

Solids: 38.75

Preparation: Total Solids (SM2540G/PSEP)

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

Batch: 0100376

Calibration:

Instrument: Wet Chem Balance 1

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
TS	Total Solids	38.8	1		SM 2540 G



# PREPARATION BATCH SUMMARY

## SM 2540 G

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch: 0100376

Batch Matrix: Sediment

Preparation: Total Solids (SM2540G/PSEP)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
USMPDI-041SG-201009 (Dup)	0100376-DUP1		10/12/20 10:19	
USMPDI-041SG-201009	A0J0344-01		10/12/20 10:19	
USMPDI-042SG-201009	A0J0344-02		10/12/20 10:19	
USMPDI-043SG-201009	A0J0344-03		10/12/20 10:19	
USMPDI-047SG-201009	A0J0344-04		10/12/20 10:19	
USMPDI-050SG-201009	A0J0344-05		10/12/20 10:19	
USMPDI-051SG-201009	A0J0344-06		10/12/20 10:19	
USMPDI-054SG-201009	A0J0344-07		10/12/20 10:19	

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.

# DUPLICATES

USMPDI-041SG-201009

## SM 2540 G

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Laboratory ID: 0100376-DUP1

Batch: 0100376

Lab Source ID: A0J0344-01

Preparation: Total Solids (SM2540G/PSEP)

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

Source Sample Name: USMPDI-041SG-201009

% Solids: 35.77

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (%)	C	DUPLICATE CONCENTRATION (%)	C	RPD %	Q	METHOD
Total Solids	10	35.8		35.8		0.04		SM 2540 G

\* Values outside of QC limits

# HOLDING TIME SUMMARY

## SM 2540 G

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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
USMPDI-041SG-201009	10/09/20 00:00	10/10/20 07:30	10/12/20 10:19	3.43	180.00	10/13/20 15:26	1.21		
USMPDI-042SG-201009	10/09/20 13:43	10/10/20 07:30	10/12/20 10:19	2.86	180.00	10/13/20 15:26	1.21		
USMPDI-043SG-201009	10/09/20 09:03	10/10/20 07:30	10/12/20 10:19	3.05	180.00	10/13/20 15:26	1.21		
USMPDI-047SG-201009	10/09/20 15:56	10/10/20 07:30	10/12/20 10:19	2.77	180.00	10/13/20 15:26	1.21		
USMPDI-050SG-201009	10/09/20 09:52	10/10/20 07:30	10/12/20 10:19	3.02	180.00	10/13/20 15:26	1.21		
USMPDI-051SG-201009	10/09/20 10:58	10/10/20 07:30	10/12/20 10:19	2.97	180.00	10/13/20 15:26	1.21		
USMPDI-054SG-201009	10/09/20 14:50	10/10/20 07:30	10/12/20 10:19	2.81	180.00	10/13/20 15:26	1.21		

## Raw Data

**Organochloride Pesticides by EPA 8081B  
Benchsheet & Analysis Sequence Data**

Batch 0100834

Sequence 0J26061 (A0J0344-01RE1,02RE1,03RE1,04RE1,05RE1,06RE1,  
07RE1)



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

**BATCH #: 0110834 (Water)**

Prep Method: EPA 3510C (Fuels/Acid Ext.)

#	Lab Number	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	Other	>11
	0110834-BLK1	QC	11/23/20 11:50	1100	2				100					
	0110834-BSD1	QC	11/23/20 11:50	1000	2	A20J221		100	100					
	0110834-BS1	QC	11/23/20 11:50	1000	2	A20J221		100	100					
	A0K0700-02	D NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:55	1070	2				100	MW-5D				
	A0K0700-03	D NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:55	1060	2				100	MW-8				
	A0K0700-04	D NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:55	1070	2				100	MW-8D				
	A0K0836-02	C NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:50	1050	2				100	HW16	Waters			

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A20B017	02/01/21	Glass Wool	A20J221	04/12/21	NWTPH LOW LEVEL Spike	A20J130	03/01/21	NWTPH LOW LEVEL Surrogate
A20F023	11/29/22	Sodium Sulfate Lot # 196476						
A20H308	08/20/22	Conc. HCl - Omnitrace						
A20I319	03/21/21	DCM lot # 201490						

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

Bottle Check: \_\_\_\_\_

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

  
 Reviewed By: \_\_\_\_\_ Date 11-24-2020



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

BATCH #: **0110834 (Water)**

Prep Method: EPA 3510C (Fuels/Acid Ext.)

#	Lab Number	Analysis	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	Other	>11
6	0110834-BLK1	QC	11/23/20 11:50	1000 <i>1100</i>	2 ✓	A20J221			100		L	✓		
7	0110834-BSD1	QC	11/23/20 11:50	1000	2 ✓	A20K272	SCG 11/23/20	100	100			✓		
8	0110834-BS1	QC	11/23/20 11:50	1000	2 ✓	A20K272		100	100			✓		
9	A0K0700-02	D NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:55	1000 <i>1070</i>	2 ✓	A20J221			100	MW-5D			✓	
10	A0K0700-03	D NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:55	1000 <i>1060</i>	2 ✓				100	MW-8	E	✓		
11	A0K0700-04	D NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:55	1000 <i>1070</i>	2 ✓				100	MW-8D		✓		
12	A0K0836-02	C NWTPH-Dx (Diesel/Oil) Low Level	11/23/20 11:50	1000 <i>1050</i>	2 ✓				100	HW16	Waters E, D	✓		

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A20B017	02/01/21	Glass Wool	A20K272	05/16/21	NWTPH LOW LEVEL Spike	A20J130	03/01/21	NWTPH LOW LEVEL Surrogate
A20F023	11/29/22	Sodium Sulfate Lot # 196476	A20J221	04/12/21				
A20H308	08/20/22	Conc. HCl - Omnitrace	<i>SCG</i>			<i>SCG</i>		
A20I319	03/21/21	DCM lot # 201490	<i>SCG</i>			<i>SCG</i>		

*L = Slight lid leak during first tumble  
Cap swapped.  
E = Emulsion Formed  
D = Decanted*

Witness: an 11-23-2020

Bottle Check: an 11-23-2020

SCG 11/23/2020  
Prepared By: \_\_\_\_\_ Date

[Signature] 11/23/2020  
Reviewed By: \_\_\_\_\_ Date



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0J26061

Instrument: DUALECD8

Date: 10/26/20 11:21

Calibration: A0J2107

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J26061-BKD1	Soil	QC	QC				A20H479
2	0J26061-CCV1	Soil	QC	QC				A20H475
3	0J26061-BKD2	Soil	QC	QC				A20H479
4	0J26061-BKD3	Soil	QC	QC				A20H479
5	0J26061-CCV2	Soil	QC	QC				A20H475
6	0J26061-CCV3	Soil	QC	QC				A20I185
7	0J26061-CCB1	Soil	QC	QC				A20J148
8	A0J0608-03RE1	Water	8081B Pesticides + Add		10/29/20	0100766		
9	0100834-BLK1	Sediment	QC	QC		0100834		
10	0100834-BS1	Sediment	QC	QC		0100834		
11	A0J0344-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
12	0100834-DUP1	Sediment	QC	QC		0100834		
13	A0J0344-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
14	A0J0344-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
15	A0J0344-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
16	0J26061-CCV4	Soil	QC	QC				A20H476
17	0J26061-CCV5	Soil	QC	QC				A20I186
18	0J26061-CCB2	Soil	QC	QC				A20J148
19	A0J0344-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
20	A0J0344-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
21	A0J0371-01RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
22	A0J0371-03RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
23	A0J0371-04RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
24	A0J0371-05RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
25	A0J0371-06RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
26	A0J0371-02RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
27	A0J0344-07RE1	Sediment	8081B 2,4+4,4-DDx Only (+Add)	Anchor QEA, LLC	10/23/20	0100834		
28	0J26061-CCV6	Soil	QC	QC				A20H475
29	0J26061-CCV7	Soil	QC	QC				A20I185
30	0J26061-CCB3	Soil	QC	QC				A20J148
31	0J26061-IBL1	Soil	QC	QC				

*AML 10/28/20*

Comments:

Data Entered By/Date: \_\_\_\_\_

Data Reviewed By/Date: MKZ 10/29/2020

10/28/2020 4:06:49PM



Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262003.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 12:03  
 Operator : MJB  
 Sample : 0J26061-BKD1  
 Misc : A20H479  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:06:53 2020  
 Quant Method : J:\methods\PestBreakdownCHK\_2010015.M  
 Quant Title : Pesticides  
 QLast Update : Fri Nov 09 13:28:51 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.866	24719959	NoCal	ng/mL
2) Endrin	8.257	874523516	NoCal	ng/mL
3) 4,4'-DDD	8.294	161507999	NoCal	ng/mL
4) 4,4'-DDT	8.488	1913276638	NoCal	ng/mL
5) Endrin Aldehyde	8.714	190023255	NoCal	ng/mL
6) Endrin Ketone	9.219	281380582	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.304	19009877	NoCal	ng/mL
9) Endrin [2C]	8.671	915154087	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.717	151632065	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.053	178224476	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.940	2037692512	NoCal	ng/mL
13) Endrin Ketone [2C]	9.636	233891798	NoCal	ng/mL
-----				

(f)=RT Delta > 1/2 Window

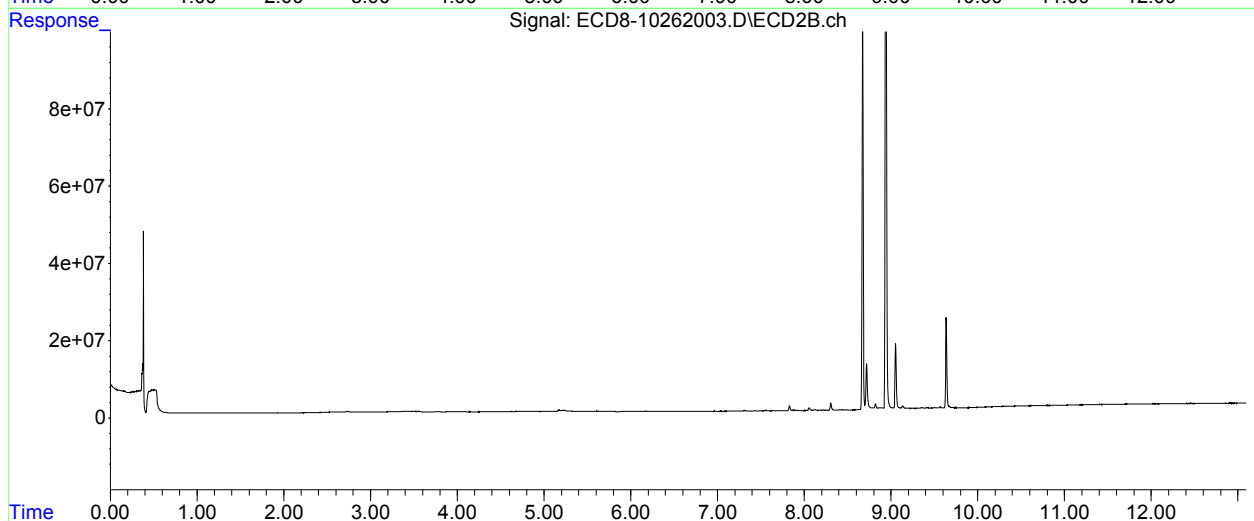
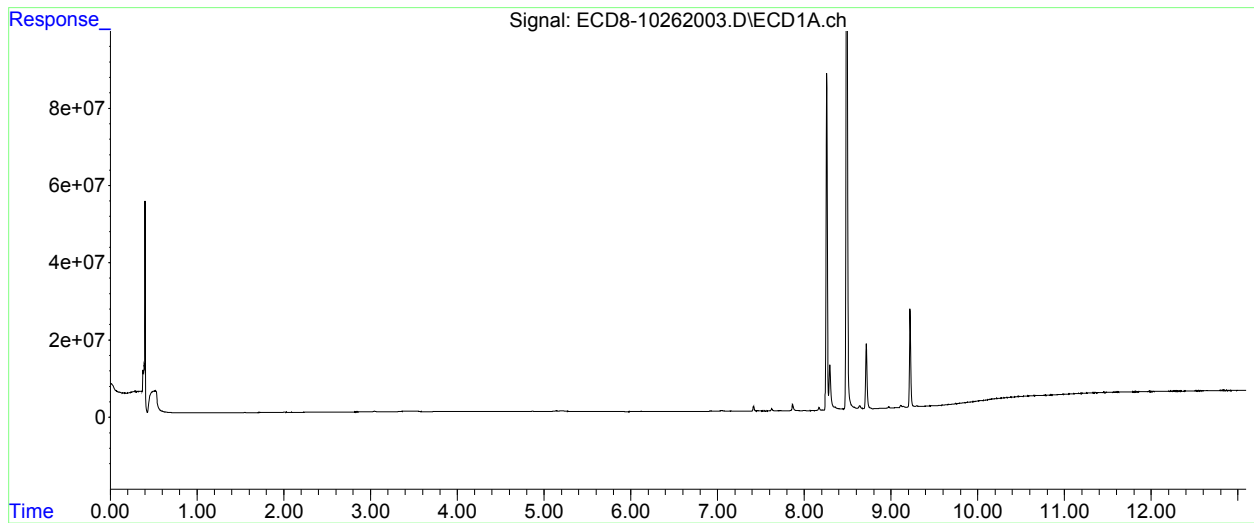
(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262003.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 12:03  
Operator : MJB  
Sample : 0J26061-BKD1  
Misc : A20H479  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 15:06:53 2020  
Quant Method : J:\methods\PestBreakdownCHK\_2010015.M  
Quant Title : Pesticides  
QLast Update : Fri Nov 09 13:28:51 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um



*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262004.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 12:19  
 Operator : MJB  
 Sample : 0J26061-CCV1  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 3 Sample Multiplier: 1

A01: BREAKDOWN FAILED

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:31:05 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.672	5.975	127.3E6	160.0E6	36.011	39.979
22) S DCBP (S)	9.891	10.485	110.5E6	101.6E6	44.094	41.999
Target Compounds						
2) a-BHC	6.224	6.569	188.7E6	233.9E6	40.048	43.720
3) g-BHC	6.510	6.884	158.5E6	195.7E6	39.387	42.084
4) b-BHC	6.593	6.952	58880393	77225621	37.723	39.469
5) Heptachlor	6.908	7.257	154.0E6	179.2E6	37.940	39.144
6) d-BHC	6.747	7.200	136.5E6	182.0E6	41.409	41.846
7) Aldrin	7.151	7.520	168.3E6	187.6E6	42.856	43.945
8) Heptachlo...	7.619	7.954	146.6E6	166.2E6	40.101	41.376
9) trans-Chl...	7.713	8.095	148.2E6	166.8E6	40.240	41.910
10) cis-Chlor...	7.809	8.201	145.9E6	164.8E6	40.280	42.487
11) Endosulfa...	7.913	8.250	139.8E6	152.5E6	41.089	42.402
12) 4,4'-DDE	7.862	8.303	140.4E6	163.9E6	44.556	44.240
13) Dieldrin	8.086	8.449	151.4E6	169.9E6	40.305	41.875
14) Endrin	8.256	8.671	94099309	102.9E6	34.314	36.798
15) 4,4'-DDD	8.293	8.717	111.0E6	130.6E6	40.806	42.057
16) Endosulfa...	8.418	8.818	117.3E6	137.0E6	39.825	42.072
17) 4,4'-DDT	8.487	8.940	93823463	104.4E6	35.265	35.332
18) Endrin Al...	8.713	9.053	120.3E6	131.0E6	42.089	43.191
19) Endosulfa...	9.018	9.247	112.7E6	125.8E6	37.713	37.870
20) Methoxychlor	8.821	9.407	43786160	52735216	31.808	35.248
21) Endrin Ke...	9.220	9.637	142.8E6	160.1E6	38.627	40.996
23) Hexachlor...	3.477	3.706	71754	37949	BelowCal	BelowCal
24) Hexachlor...	6.046	6.436	462566	13970	0.138	0.004 #
25) Oxychlorane	7.554	7.867	662605	371153	0.205	0.105 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262004.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 12:19  
 Operator : MJB  
 Sample : 0J26061-CCV1  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:31:05 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.619	8.095	146.6E6	166.8E6	68.930	68.741
27)	trans-Non...	7.809	8.145	145.9E6	826609	40.380	0.210 #
28)	2,4'-DDD	8.005	8.449	1347534	169.9E6	0.701	77.559 #
29)	2,4'-DDT	8.169	8.671	369138	102.9E6	0.172	45.633 #
30)	cis-Nonac...	8.256	8.717	94099309	130.6E6	23.861	30.537 #
31)	Mirex	8.972f	9.637	1054919	160.1E6	0.142	64.591 #
32)	Chlordane...	7.713	8.095	148.2E6	166.8E6	359.725	342.423
33)	Chlordane...	7.809	8.201	145.9E6	164.8E6	348.089	398.155
34)	Chlordane...	0.000	8.894f	0	1289263	N.D.	9.532 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.809	8.449	145.9E6	169.9E6	9807.560	4470.235 #
37)	Toxaphene...	8.086	8.818f	151.4E6	137.0E6	4596.953	2905.675 #
38)	Toxaphene...	8.418	8.818	117.3E6	137.0E6	1692.084	1947.691
39)	Toxaphene...	8.637	8.894	4170604	1289263	56.041	10.822 #
40)	Toxaphene...	8.892	9.053	614212	131.0E6	10.347	1901.661 #
41)	Toxaphene...	8.972	9.407f	1054919	52735216	15.669	704.247 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

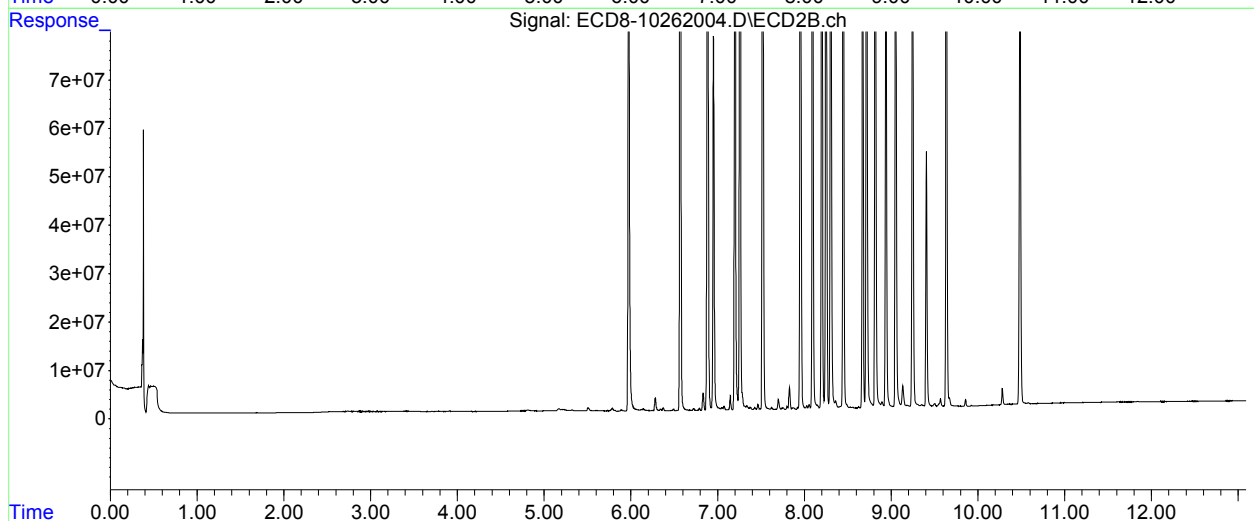
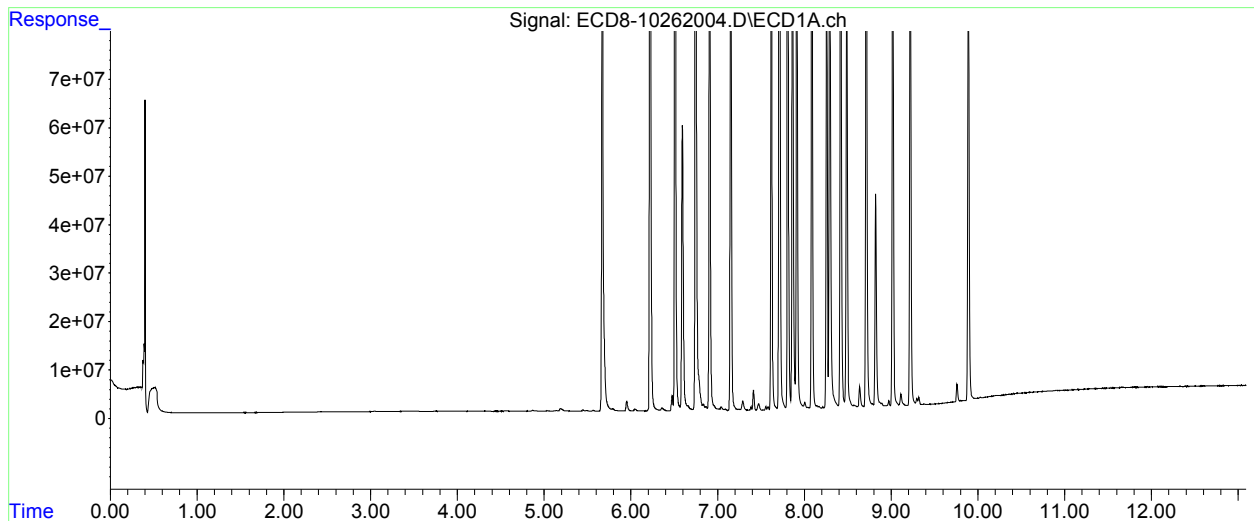
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262004.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 12:19  
Operator : MJB  
Sample : 0J26061-CCV1  
Misc : A20H475, AB 50 ppb  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 15:31:05 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



HML 10/27/20

Pesticide BKD

**Pesticide Breakdown Check (Validated 8/8/2013)**

Sequence: 0J26061 BKD2  
Data File: ECD8-10262006.D

First Column Area Counts		Percent Breakdown	
DDE	781881		
DDD	11714664		
DDT	92787744	<b>11.87</b>	<b>PASS</b>
Endrin	56417160	<b>22.78</b>	<b>FAIL</b>
Endrin Aldehyde	4308667		
Endrin Ketone	12337311		

Second Column Area Counts		Percent Breakdown	
DDE	631917		
DDD	9696538		
DDT	59755154	<b>14.74</b>	<b>PASS</b>
Endrin	38786282	<b>22.63</b>	<b>FAIL</b>
Endrin Aldehyde	3105471		
Endrin Ketone	8241505		

*Breakdown must be less than 20% for Method 608. For method 8081 it must be less than 15% or within 7.5% of the breakdown prior to the most recent calibration.*

BREAKDOWN STILL FAILED AFTER REPLACING INLET LINER. ADDITIONAL MANTENNACE TO BE PERFORMED.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262006.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 13:07  
 Operator : MJB  
 Sample : 0J26061-BKD2  
 Misc : A20H479  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 26 13:22:14 2020  
 Quant Method : C:\msdchem\1\methods\PestBreakdownCHK\_2010015.M  
 Quant Title : Pesticides  
 QLast Update : Fri Nov 09 13:28:51 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.866	11692861	NoCal	ng/mL
2) Endrin	8.258	1292864827	NoCal	ng/mL
3) 4,4'-DDD	8.294	130324148	NoCal	ng/mL
4) 4,4'-DDT	8.489	2718965625	NoCal	ng/mL
5) Endrin Aldehyde	8.714	130611808	NoCal	ng/mL
6) Endrin Ketone	9.221	253872749	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.305	10257935	NoCal	ng/mL
9) Endrin [2C]	8.672	1350585105	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.718	119621350	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.053	115932397	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.941	2938144631	NoCal	ng/mL
13) Endrin Ketone [2C]	9.638	214230587	NoCal	ng/mL

(f)=RT Delta > 1/2 Window

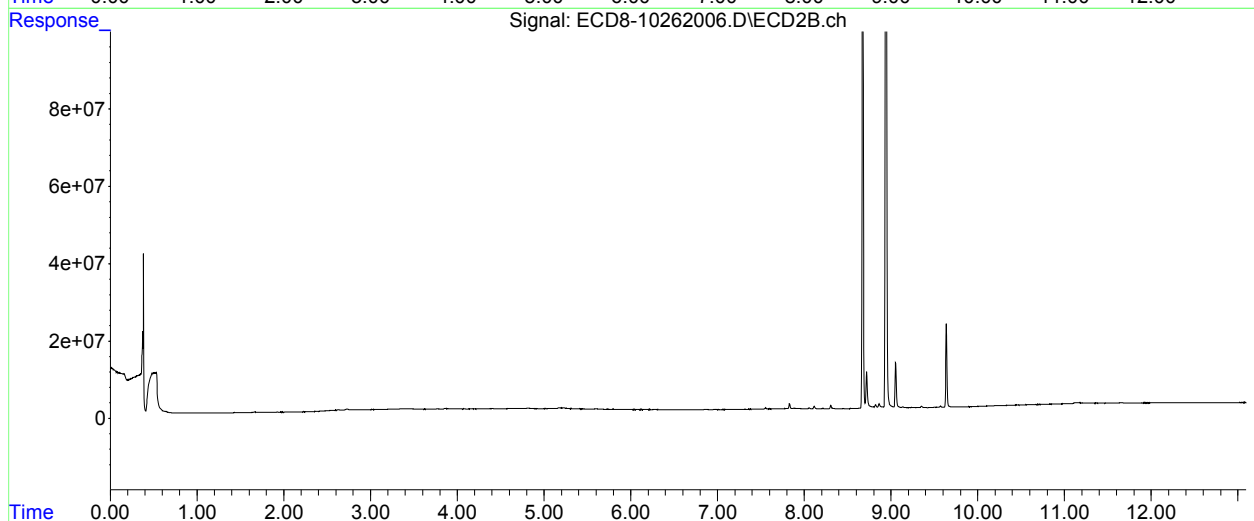
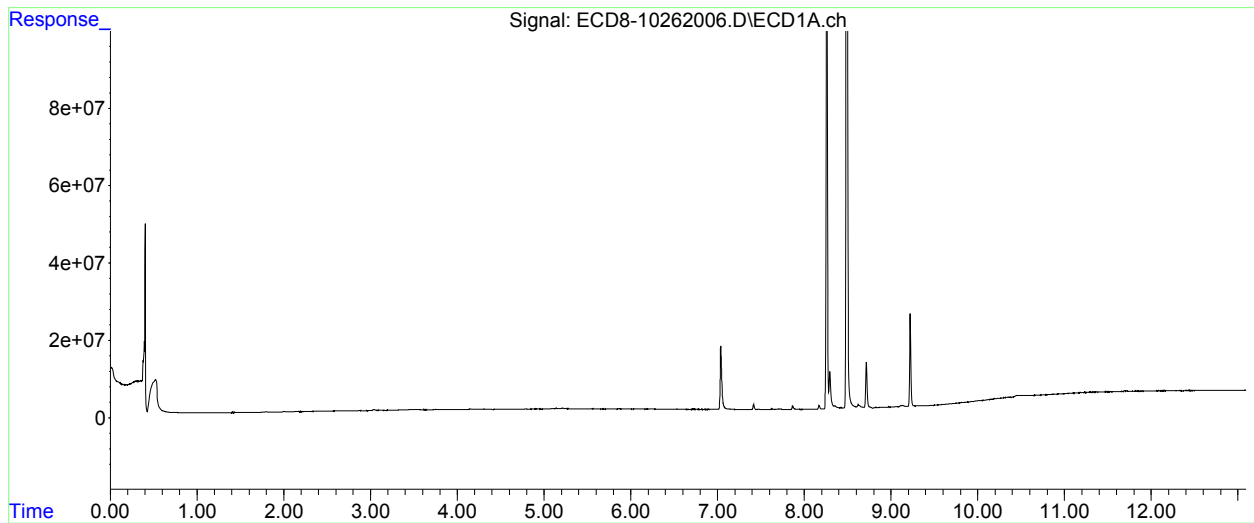
(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 13:07  
Operator : MJB  
Sample : 0J26061-BKD2  
Misc : A20H479  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 26 13:22:14 2020  
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK\_2010015.M  
Quant Title : Pesticides  
QLast Update : Fri Nov 09 13:28:51 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um





HML 10/27/20

Pesticide BKD

**Pesticide Breakdown Check (Validated 8/8/2013)**

Sequence: 0J26061 BKD3  
Data File: ECD8-10262008.D

First Column Area Counts		Percent Breakdown	
DDE	781881		
DDD	11714664		
DDT	92787744	<b>11.87</b>	<b>PASS</b>
Endrin	56417160	<b>22.78</b>	<b>FAIL</b>
Endrin Aldehyde	4308667		
Endrin Ketone	12337311		

Second Column Area Counts		Percent Breakdown	
DDE	631917		
DDD	9696538		
DDT	59755154	<b>14.74</b>	<b>PASS</b>
Endrin	38786282	<b>22.63</b>	<b>FAIL</b>
Endrin Aldehyde	3105471		
Endrin Ketone	8241505		

*Breakdown must be less than 20% for Method 608. For method 8081 it must be less than 15% or within 7.5% of the breakdown prior to the most recent calibration.*

BREAKDOWN FOR ENDRIN IS WITHIN 7.5% AFTER GUARD COLUMN CUTTING (~6")

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262008.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 13:54  
 Operator : MJB  
 Sample : 0J26061-BKD3  
 Misc : A20H479  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:22:33 2020  
 Quant Method : J:\methods\PestBreakdownCHK\_2010015.M  
 Quant Title : Pesticides  
 QLast Update : Fri Nov 09 13:28:51 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.855	11677663	NoCal	ng/mL
2) Endrin	8.249	1438989853	NoCal	ng/mL
3) 4,4'-DDD	8.283	62306417	NoCal	ng/mL
4) 4,4'-DDT	8.479	2913734889	NoCal	ng/mL
5) Endrin Aldehyde	8.706	113907018	NoCal	ng/mL
6) Endrin Ketone	9.213	152123962	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.296	12703089	NoCal	ng/mL
9) Endrin [2C]	8.664	1481514441	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.708	59174029	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.045	102964922	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.932	3159103097	NoCal	ng/mL
13) Endrin Ketone [2C]	9.629	132966507	NoCal	ng/mL
-----				

(f)=RT Delta > 1/2 Window

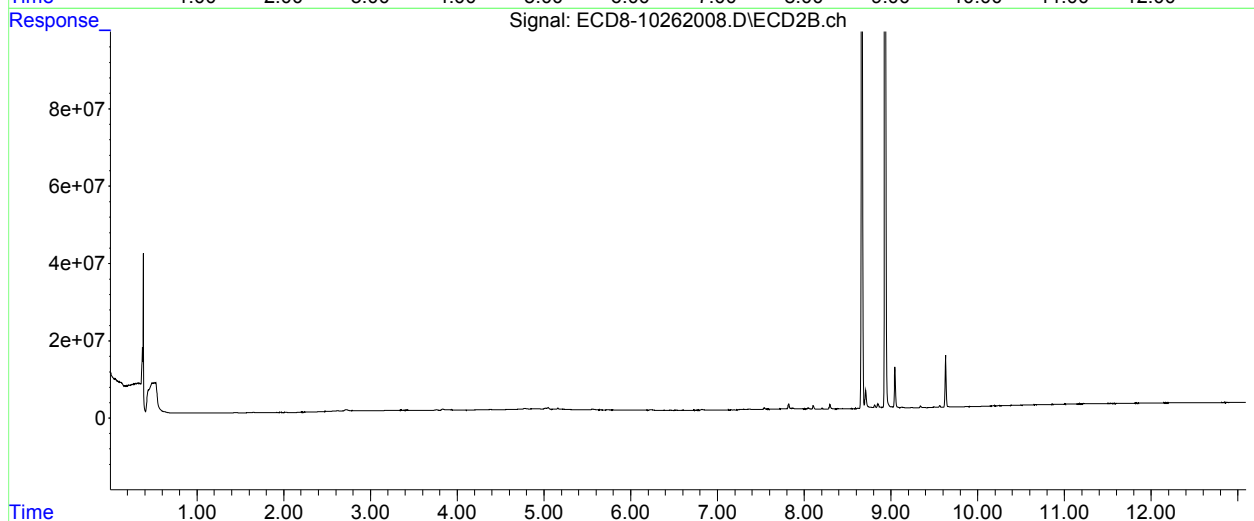
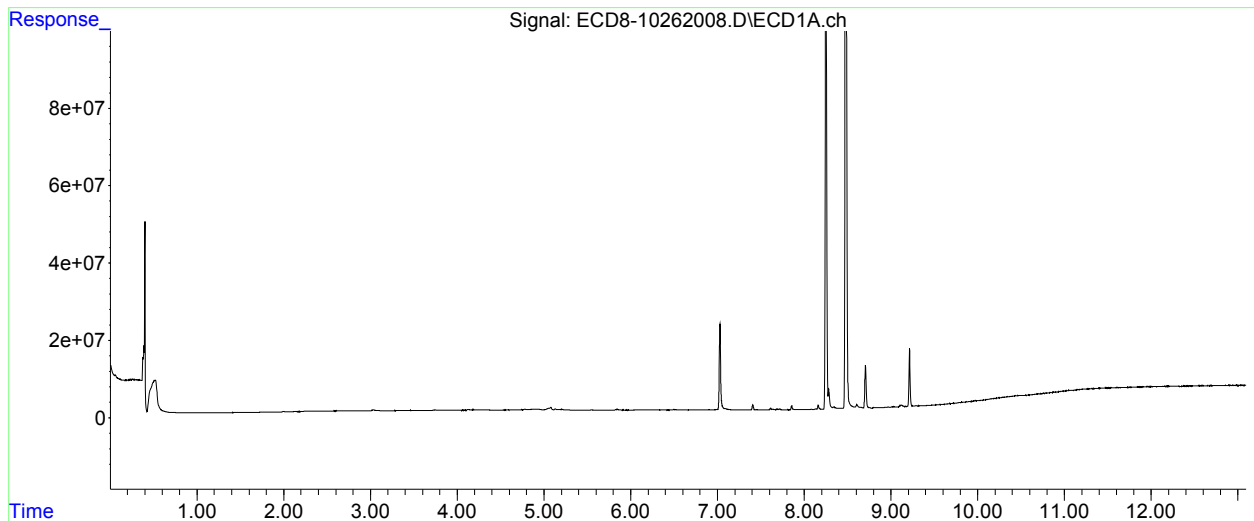
(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262008.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 13:54  
Operator : MJB  
Sample : 0J26061-BKD3  
Misc : A20H479  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 15:22:33 2020  
Quant Method : J:\methods\PestBreakdownCHK\_2010015.M  
Quant Title : Pesticides  
QLast Update : Fri Nov 09 13:28:51 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m x 0.32mm x 0. Signal #2 Info : 30m x 0.32mm x 0.25um



*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262009.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 14:10  
 Operator : MJB  
 Sample : 0J26061-CCV2  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:41:54 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.663	5.966	165.9E6	202.7E6	46.900	50.677
22) S DCBP (S)	9.884	10.477	124.9E6	117.7E6	49.861	48.657
Target Compounds						
2) a-BHC	6.214	6.561	235.2E6	285.4E6	49.918	53.353
3) g-BHC	6.501	6.876	204.8E6	243.0E6	50.890	52.255
4) b-BHC	6.582	6.943	78470743	97593245	50.274	49.878
5) Heptachlor	6.899	7.249	196.8E6	234.0E6	48.497	51.134
6) d-BHC	6.736	7.191	181.5E6	238.5E6	53.909	53.673
7) Aldrin	7.142	7.512	195.7E6	224.2E6	49.830	52.515
8) Heptachlo...	7.611	7.947	180.7E6	209.3E6	49.417	52.112
9) trans-Chl...	7.704	8.086	183.2E6	209.5E6	49.734	52.638
10) cis-Chlor...	7.801	8.192	179.4E6	203.7E6	49.523	52.516
11) Endosulfa...	7.905	8.242	170.4E6	187.0E6	50.086	52.005
12) 4,4'-DDE	7.853	8.295	171.8E6	202.2E6	54.520	53.590
13) Dieldrin	8.078	8.441	192.2E6	210.1E6	51.151	51.119
14) Endrin	8.248	8.664	139.4E6	150.2E6	50.836	52.033
15) 4,4'-DDD	8.283	8.708	144.8E6	173.7E6	53.231	54.607
16) Endosulfa...	8.409	8.810	148.5E6	169.1E6	50.416	51.923
17) 4,4'-DDT	8.479	8.933	140.9E6	164.1E6	51.438	53.069
18) Endrin Al...	8.705	9.045	136.5E6	149.9E6	47.786	49.205
19) Endosulfa...	9.010	9.239	143.7E6	160.9E6	48.081	48.427
20) Methoxychlor	8.812	9.399	71580860	80787557	51.999	52.432
21) Endrin Ke...	9.212	9.629	184.4E6	202.7E6	49.872	51.902
23) Hexachlor...	3.460	3.694	166362	107281	BelowCal	BelowCal
24) Hexachlor...	6.051	6.428	320268	13582	0.096	0.003 #
25) Oxychlorane	7.545	7.867	790015	112867	0.245	0.032 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262009.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 14:10  
 Operator : MJB  
 Sample : 0J26061-CCV2  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:41:54 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.611	8.086	180.7E6	209.5E6	84.944	86.337
27)	trans-Non...	7.801	8.151	179.4E6	514501	49.647	0.130 #
28)	2,4'-DDD	8.026f	8.441	249569	210.1E6	0.130	94.165 #
29)	2,4'-DDT	8.160	8.664	516783	150.2E6	0.241	64.324 #
30)	cis-Nonac...	8.283	8.708	144.8E6	173.7E6	36.710	40.601
31)	Mirex	8.942	9.629	129103	202.7E6	BelowCal	80.964
32)	Chlordane...	7.704	8.086f	183.2E6	209.5E6	444.597	430.078
33)	Chlordane...	7.801	8.192f	179.4E6	203.7E6	427.966	492.132
34)	Chlordane...	8.409f	8.884	148.5E6	669995	1151.520	4.954 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.801	8.441	179.4E6	210.1E6	12058.133	5527.695 #
37)	Toxaphene...	8.078f	8.810	192.2E6	169.1E6	5834.090	3586.008 #
38)	Toxaphene...	8.409	8.810	148.5E6	169.1E6	2142.075	2403.722
39)	Toxaphene...	8.628f	8.884	1837265	669995	24.688	5.624 #
40)	Toxaphene...	8.863f	9.045f	795780	149.9E6	13.405	2175.197 #
41)	Toxaphene...	8.964	0.000	252146	0	3.745	N.D. #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

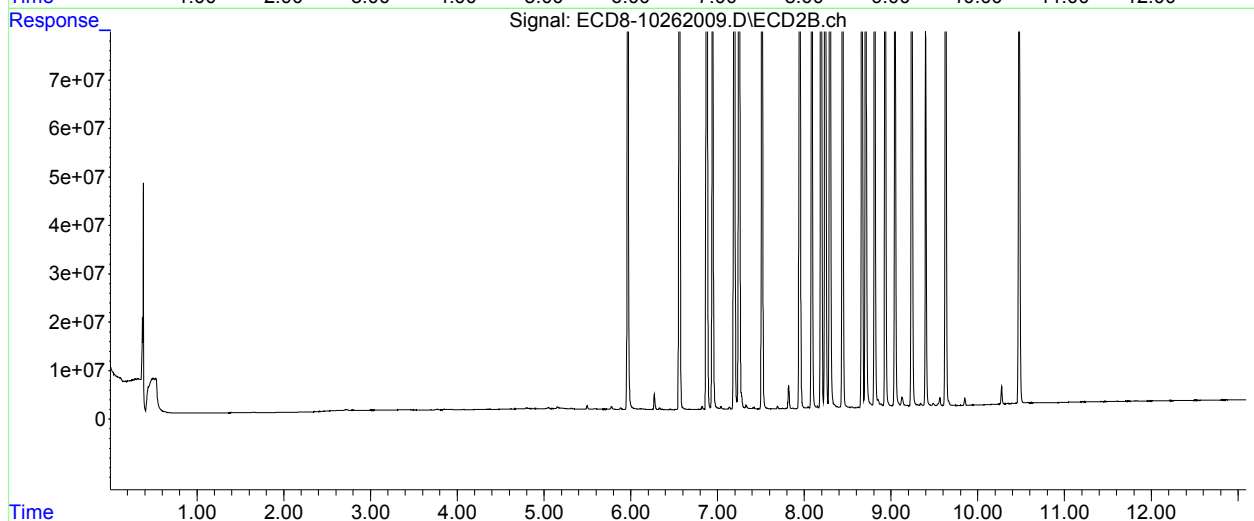
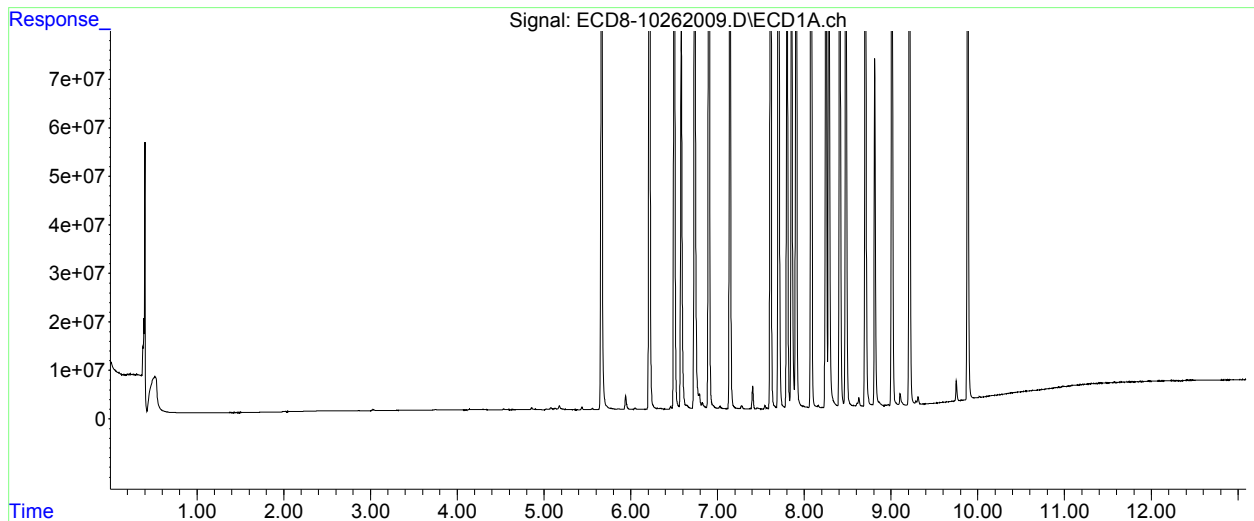
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262009.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 14:10  
Operator : MJB  
Sample : 0J26061-CCV2  
Misc : A20H475, AB 50 ppb  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 15:41:54 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



AML 10/27/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262010.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 14:27  
 Operator : MJB  
 Sample : 0J26061-CCV3  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:51:52 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.634f	6.003f	1202051	1395157	0.340	0.349
22) S DCBP (S)	9.846f	10.504f	295490	231268	BelowCal	0.096
Target Compounds						
2) a-BHC	6.213	6.559	288732	223417	0.061	0.042 #
3) g-BHC	6.492	6.875	134997	77414	0.034	0.017 #
4) b-BHC	6.593	6.948	99846	103267	0.064	0.053
5) Heptachlor	6.899	7.248	437714	484133	0.108	0.106
6) d-BHC	6.739	7.192	87539	78848	0.087	0.087
7) Aldrin	7.114f	7.511	68699	36693	0.017	0.009 #
8) Heptachlo...	7.602	7.943	106.3E6	229544	29.075	0.057 #
9) trans-Chl...	7.702	8.072	515984	121.9E6	0.140	30.621 #
10) cis-Chlor...	7.787	8.152f	173.5E6	191.5E6	47.901	49.347
11) Endosulfa...	7.898	8.243	367531	181371	0.108	0.050 #
12) 4,4'-DDE	0.000	8.302	0	365992	N.D.	0.156 #
13) Dieldrin	8.055f	8.444	1081393	110.0E6	0.288	27.662 #
14) Endrin	8.266	8.665	187.2E6	117.3E6	68.253	41.526 #
15) 4,4'-DDD	8.266	8.710	187.2E6	209.3E6	68.822	64.607
16) Endosulfa...	8.417	8.811	119492	133612	0.041	0.041
17) 4,4'-DDT	8.480	8.925	88628	112173	0.068	0.105 #
18) Endrin Al...	8.706	9.052	108885	191560	BelowCal	BelowCal
19) Endosulfa...	8.984f	9.239	651269	54097	0.218	0.016 #
20) Methoxychlor	8.815	9.401	18187	24054	0.013	BelowCal #
21) Endrin Ke...	9.215	9.619	54299	121.7E6	0.015	31.146 #
23) Hexachlor...	3.454	3.679	180.0E6	215.2E6	55.345	54.542
24) Hexachlor...	6.050	6.430	147.3E6	191.2E6	44.031	48.037
25) Oxychlorane	7.533	7.877	152.5E6	169.4E6	47.210	48.136

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262010.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 14:27  
 Operator : MJB  
 Sample : 0J26061-CCV3  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:51:52 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.602	8.072	106.3E6	121.9E6	49.978	50.226
27)	trans-Non...	7.787	8.152	173.5E6	191.5E6	48.020	48.556
28)	2,4'-DDD	7.980	8.444	95555541	110.0E6	49.733	51.675
29)	2,4'-DDT	8.161	8.665	104.4E6	117.3E6	48.657	51.447
30)	cis-Nonac...	8.266	8.710	187.2E6	209.3E6	47.462	48.933
31)	Mirex	8.940	9.619	115.4E6	121.7E6	48.931	49.500
32)	Chlordane...	7.702f	8.072f	515984	121.9E6	1.253	250.193 #
33)	Chlordane...	7.787f	8.238f	173.5E6	177708	413.945	0.429 #
34)	Chlordane...	8.372	8.890	144102	123524	1.117	0.913
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.787	8.444	173.5E6	110.0E6	11663.080	2893.942 #
37)	Toxaphene...	8.133f	8.811f	1523466	133612	46.252	2.834 #
38)	Toxaphene...	8.417	8.811	119492	133612	1.724	1.900
39)	Toxaphene...	8.656	8.890	180727	123524	2.428	1.037 #
40)	Toxaphene...	8.898	9.074	11541	20313	0.194	0.295 #
41)	Toxaphene...	8.940f	9.428	115.4E6	22934	1713.537	0.306 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

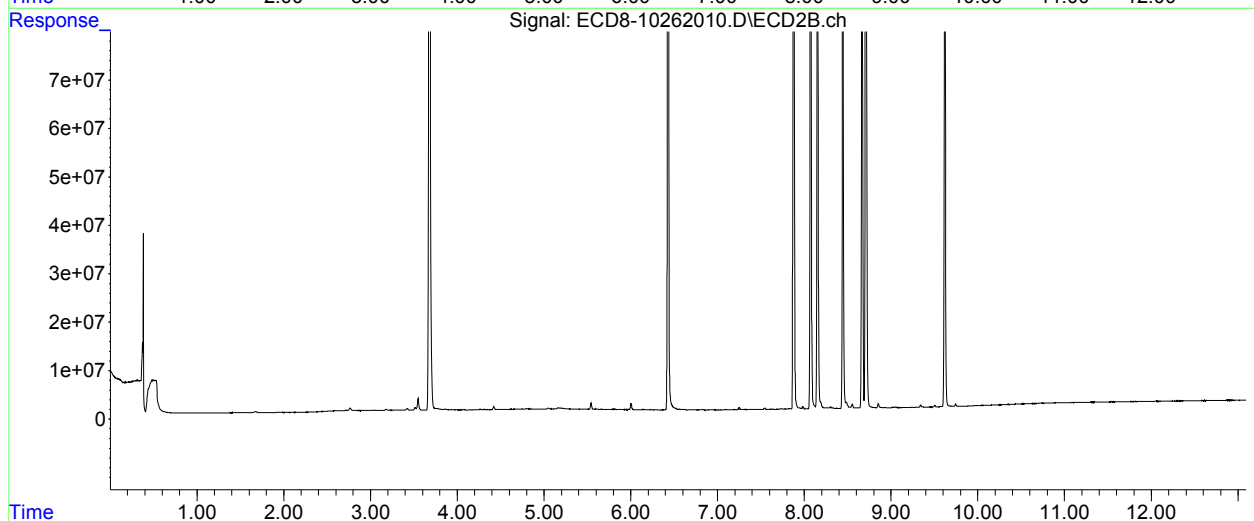
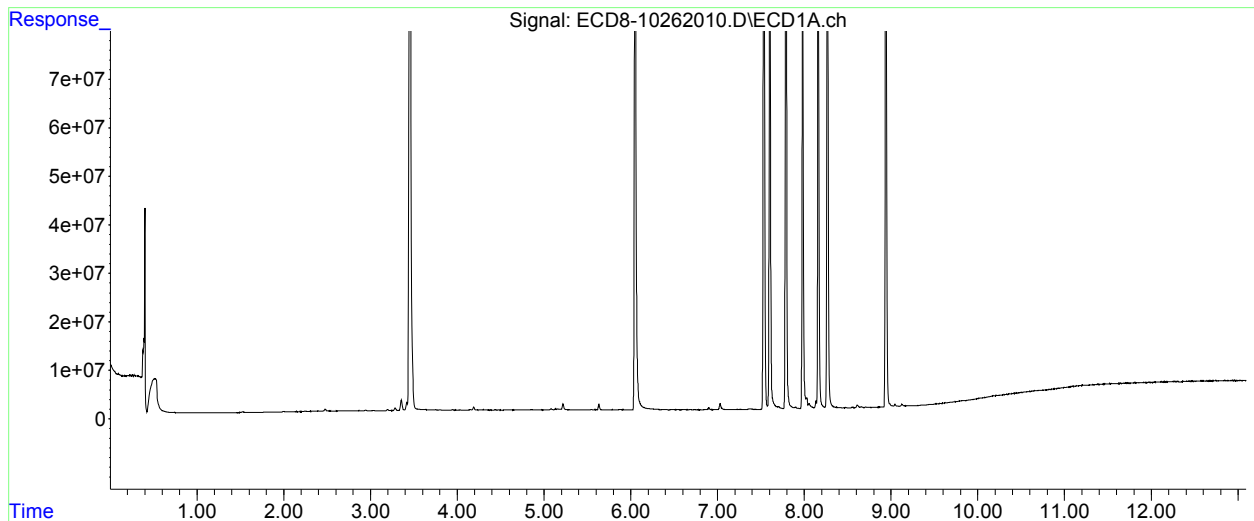


Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262010.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 14:27  
Operator : MJB  
Sample : 0J26061-CCV3  
Misc : A20I185, 9-42 50 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 15:51:52 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



AML 10/27/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262011.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 14:43  
 Operator : MJB  
 Sample : 0J26061-CCB1  
 Misc : A2J148  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:55:33 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.663	5.967	312.8E6	397.6E6	88.448	99.391
22) S DCBP (S)	9.882	10.477	238.4E6	230.5E6	94.894	95.295
Target Compounds						
2) a-BHC	6.223	6.531f	63028	41515	0.013	0.008 #
3) g-BHC	6.488	6.909f	40397	13484	0.010	0.003 #
4) b-BHC	0.000	6.948	0	18707	N.D.	0.010 #
5) Heptachlor	0.000	7.246	0	14159	N.D.	0.003 #
6) d-BHC	6.748	7.196	45550	36347	0.073	0.076
7) Aldrin	7.104f	7.544f	67451	222461	0.017	0.052 #
8) Heptachlo...	7.610	7.941	14277	15903	0.004	0.004
9) trans-Chl...	7.693	8.106f	97633	41907	0.027	0.011 #
10) cis-Chlor...	7.773f	8.195	6429	14700	0.002	0.004 #
11) Endosulfa...	7.911	8.254	9454	17575	0.003	0.005 #
12) 4,4'-DDE	7.834	8.287	5954	8612	0.002	0.050 #
13) Dieldrin	8.103f	8.416f	10315	8254	0.003	0.019 #
14) Endrin	0.000	8.661	0	28412	N.D.	0.037 #
15) 4,4'-DDD	0.000	8.716	0	19901	N.D.	0.009 #
16) Endosulfa...	0.000	8.811	0	15035	N.D.	0.005 #
17) 4,4'-DDT	8.452f	8.945	480103	18813	0.225	0.070 #
18) Endrin Al...	8.707	9.017f	64502	343175	BelowCal	BelowCal
19) Endosulfa...	0.000	9.239	0	31106	N.D.	0.009 #
20) Methoxychlor	0.000	9.396	0	30563	N.D.	BelowCal
21) Endrin Ke...	0.000	9.631	0	70243	N.D.	0.018 #
23) Hexachlor...	3.478f	3.665	44548	16097	BelowCal	BelowCal
24) Hexachlor...	6.051	6.428	581980	33006	0.174	0.008 #
25) Oxychlorane	7.531	7.866	13897	49442	0.004	0.014 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262011.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 14:43  
 Operator : MJB  
 Sample : 0J26061-CCB1  
 Misc : A2J148  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 15:55:33 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.610	8.106f	14277	41907	0.007	0.017 #
27)	trans-Non...	7.773	8.157	6429	10626	0.002	0.003 #
28)	2,4'-DDD	0.000	8.416f	0	8254	N.D.	BelowCal
29)	2,4'-DDT	8.146	8.661	27117	28412	0.013	BelowCal #
30)	cis-Nonac...	0.000	8.716	0	19901	N.D.	0.005 #
31)	Mirex	0.000	9.631	0	70243	N.D.	BelowCal
32)	Chlordane...	7.750f	8.106	10554	41907	0.026	0.086 #
33)	Chlordane...	7.834	8.195f	5954	14700	0.014	0.036 #
34)	Chlordane...	0.000	8.853	0	811764	N.D.	6.002 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.773f	8.416f	6429	8254	0.432	0.217 #
37)	Toxaphene...	8.103	8.780	10315	9960	0.313	0.211 #
38)	Toxaphene...	8.452f	8.811	480103	15035	6.926	0.214 #
39)	Toxaphene...	8.659	8.853f	310386	811764	4.171	6.814 #
40)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.
41)	Toxaphene...	0.000	9.447	0	30966	N.D.	0.414 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

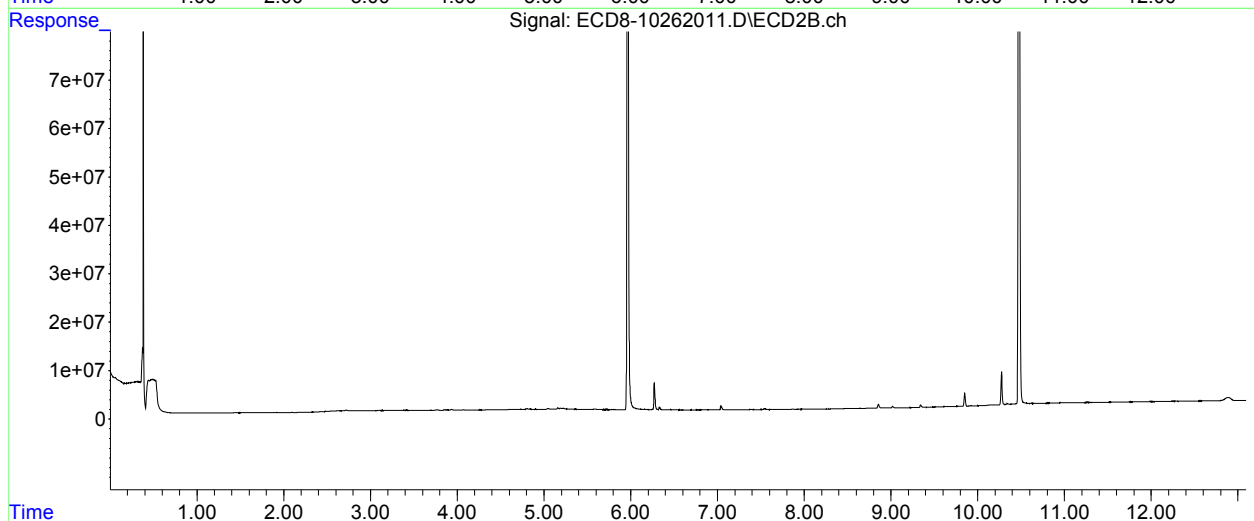
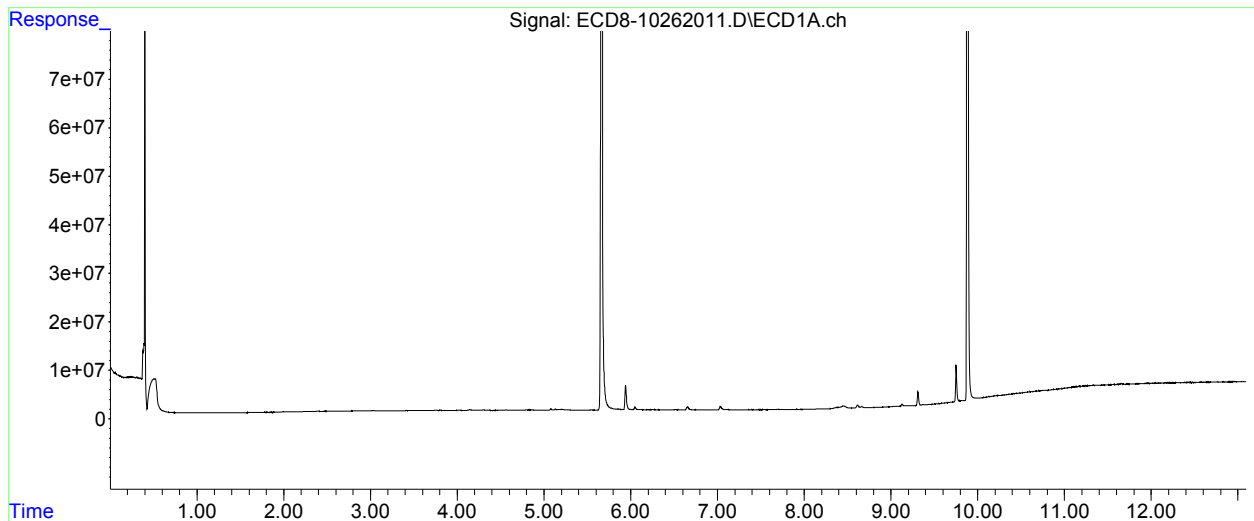
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262011.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 14:43  
Operator : MJB  
Sample : 0J26061-CCB1  
Misc : A2J148  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 15:55:33 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262013.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 15:17  
 Operator : MJB  
 Sample : 0100834-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 16:43:22 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.663	5.966	96587271	111.3E6	27.312	27.807
22) S DCBP (S)	9.882	10.475	120.9E6	112.4E6	48.262	46.453
Target Compounds						
2) a-BHC	6.226	6.554	593887	101198	0.126	0.019 #
3) g-BHC	6.512	6.894	222126	68339	0.055	0.015 #
4) b-BHC	6.572	6.944	385876	87150	0.247	0.045 #
5) Heptachlor	6.891	7.247	1453857	548757	0.358	0.120 #
6) d-BHC	6.735	7.157f	109017	1775915	0.094	0.507 #
7) Aldrin	7.147	7.499	119767	100798	0.030	0.024
8) Heptachlo...	7.593	7.932	611682	200356	0.167	0.050 #
9) trans-Chl...	7.694	8.106f	322254	773737	0.088	0.194 #
10) cis-Chlor...	7.762f	8.211	1127758	2622269	0.311	0.676 #
11) Endosulfa...	7.918	8.249	178092	248235	0.052	0.069 #
12) 4,4'-DDE	7.839	8.300	2444383	271839	0.776	0.128 #
13) Dieldrin	8.073	8.434	118185	209350	0.031	0.071 #
14) Endrin	8.254	8.658	81686	128973	0.030	0.076 #
15) 4,4'-DDD	8.311f	8.714	268818	75018	0.099	0.028 #
16) Endosulfa...	8.385f	8.793	1020470	189597	0.346	0.058 #
17) 4,4'-DDT	8.478	8.931	42929	365683	0.049	0.199 #
18) Endrin Al...	8.704	9.054	96988	158497	BelowCal	BelowCal
19) Endosulfa...	8.996	9.248	123810	310928	0.041	0.094 #
20) Methoxychlor	8.808	9.397	367777	595940	0.267	0.374 #
21) Endrin Ke...	9.203	9.633	252481	621904	0.068	0.159 #
23) Hexachlor...	3.452	3.642f	481688	67639302	BelowCal	17.922
24) Hexachlor...	6.050	6.454f	602511	2274723	0.180	0.572 #
25) Oxychlorane	0.000	7.903f	0	826386	N.D.	0.235 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262013.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 15:17  
 Operator : MJB  
 Sample : 0100834-BLK1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 16:43:22 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.593	8.061	611682	1392370	0.288	0.574 #
27)	trans-Non...	7.762f	8.147	1127758	920659	0.312	0.233 #
28)	2,4'-DDD	7.981	8.434	169417	209350	0.088	BelowCal #
29)	2,4'-DDT	8.164	8.658	327592	128973	0.153	BelowCal #
30)	cis-Nonac...	8.254	8.714	81686	75018	0.021	0.018
31)	Mirex	8.967f	9.633	231242	621904	BelowCal	BelowCal
32)	Chlordane...	7.694f	8.106	322254	773737	0.782	1.588 #
33)	Chlordane...	7.839f	8.211	2444383	2622269	5.832	6.334
34)	Chlordane...	8.385	8.877	1020470	168344	7.913	1.245 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.839f	8.434	2444383	209350	164.309	5.508 #
37)	Toxaphene...	8.116	8.793	23133	189597	0.702	4.022 #
38)	Toxaphene...	8.385f	8.826	1020470	403401	14.720	5.736 #
39)	Toxaphene...	8.645	8.901	406387	227065	5.461	1.906 #
40)	Toxaphene...	8.899	9.054	29376	158497	0.495	2.301 #
41)	Toxaphene...	8.967	9.442	231242	1474401	3.435	19.690 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

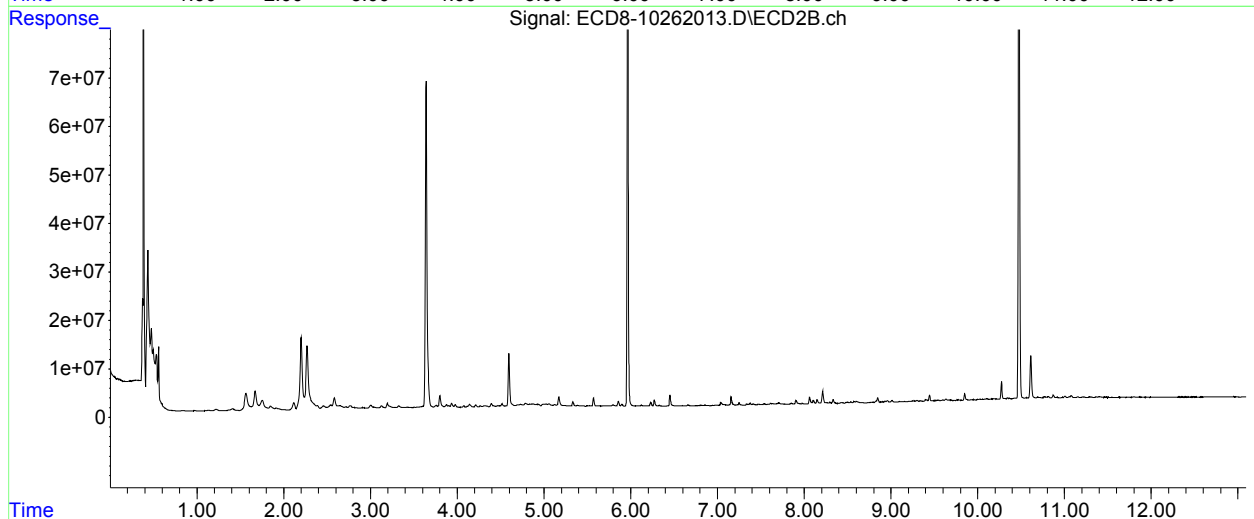
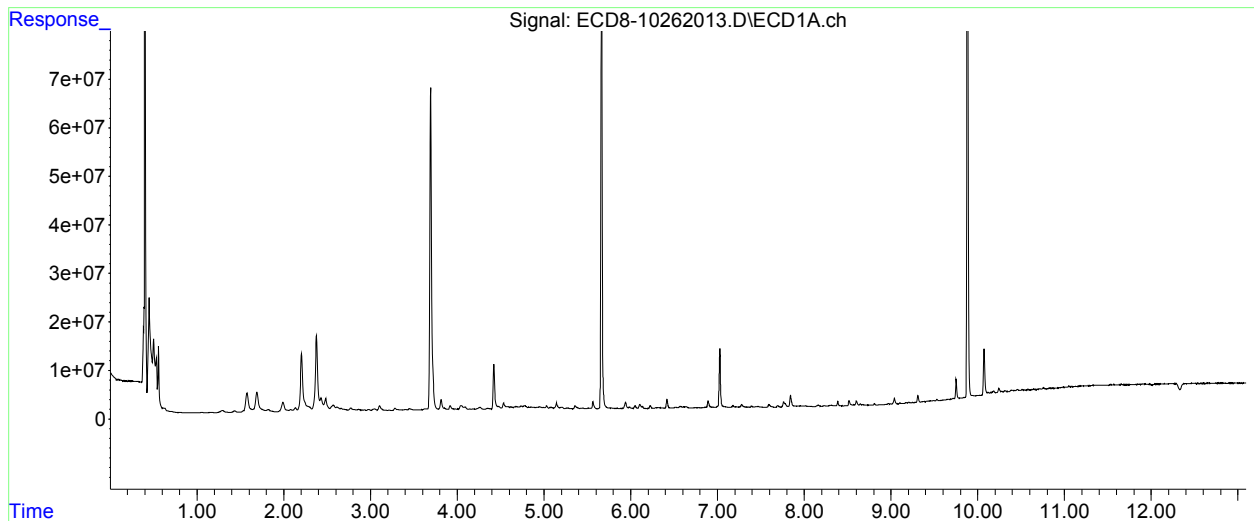
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262013.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:17  
Operator : MJB  
Sample : 0100834-BLK1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:43:22 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



AML 10/27/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262014.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 15:33  
 Operator : MJB  
 Sample : 0100834-BS1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 16:45:14 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.663	5.966	120.7E6	144.6E6	34.126	36.142
22) S DCBP (S)	9.882	10.476	133.3E6	125.7E6	53.183	51.945
Target Compounds						
2) a-BHC	6.230	6.562	530978	89772	0.113	0.017 #
3) g-BHC	6.490	6.861	142327	87021	0.035	0.019 #
4) b-BHC	6.575	6.945	254846	59764	0.163	0.031 #
5) Heptachlor	6.892	7.248	1620599	130941	0.399	0.029 #
6) d-BHC	6.735	7.158f	138705	1953876	0.103	0.551 #
7) Aldrin	7.179f	7.497	212959	75179	0.054	0.018 #
8) Heptachlo...	7.599	7.981f	100.6E6	156848	27.513	0.039 #
9) trans-Chl...	7.691	8.071	415547	114.1E6	0.113	28.663 #
10) cis-Chlor...	7.763f	8.210	1285850	2457639	0.355	0.633 #
11) Endosulfa...	0.000	8.261	0	282974	N.D.	0.079 #
12) 4,4'-DDE	7.851	8.294	159.9E6	179.5E6	50.742	48.090
13) Dieldrin	8.063	8.441	377772	109.9E6	0.101	27.646 #
14) Endrin	8.228	8.664	355528	115.2E6	0.130	40.860 #
15) 4,4'-DDD	8.280	8.707	131.6E6	148.3E6	48.372	47.284
16) Endosulfa...	8.386f	8.794	832187	385594	0.283	0.118 #
17) 4,4'-DDT	8.477	8.931	144.6E6	153.8E6	52.676	50.110
18) Endrin Al...	8.710	9.035	332282	220543	BelowCal	BelowCal
19) Endosulfa...	8.996	9.263f	21313	218785	0.007	0.066 #
20) Methoxychlor	8.808	9.395	257632	347174	0.187	0.197
21) Endrin Ke...	9.203	9.638	69201	616339	0.019	0.158 #
23) Hexachlor...	3.451	3.642f	549474	81752749	BelowCal	21.586
24) Hexachlor...	6.049	6.457f	837527	451718	0.250	0.113 #
25) Oxychlorane	7.538	7.865	30414	134880	0.009	0.038 #



Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262014.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 15:33  
 Operator : MJB  
 Sample : 0100834-BS1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 16:45:14 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.599	8.071	100.6E6	114.1E6	47.293	47.013
27)	trans-Non...	7.763f	8.148	1285850	1440145	0.356	0.365
28)	2,4'-DDD	7.977	8.441	96525326	109.9E6	50.238	51.646
29)	2,4'-DDT	8.159	8.664	109.1E6	115.2E6	50.832	50.629
30)	cis-Nonac...	8.280	8.707	131.6E6	148.3E6	33.359	34.675
31)	Mirex	8.924	9.608	788539	122940	0.028	BelowCal #
32)	Chlordane...	7.691f	8.071f	415547	114.1E6	1.009	234.190 #
33)	Chlordane...	7.851f	8.210	159.9E6	2457639	381.465	5.936 #
34)	Chlordane...	8.386	8.877	832187	200535	6.453	1.483 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	0.000	8.441	0	109.9E6	N.D.	2892.256 #
37)	Toxaphene...	8.131f	8.794	2506304	385594	76.090	8.179 #
38)	Toxaphene...	8.386f	8.826	832187	519469	12.004	7.386 #
39)	Toxaphene...	8.646	8.898	340374	244071	4.574	2.049 #
40)	Toxaphene...	8.881	9.093f	81457	105760	1.372	1.535
41)	Toxaphene...	8.965	9.442	78407	210814	1.165	2.815 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

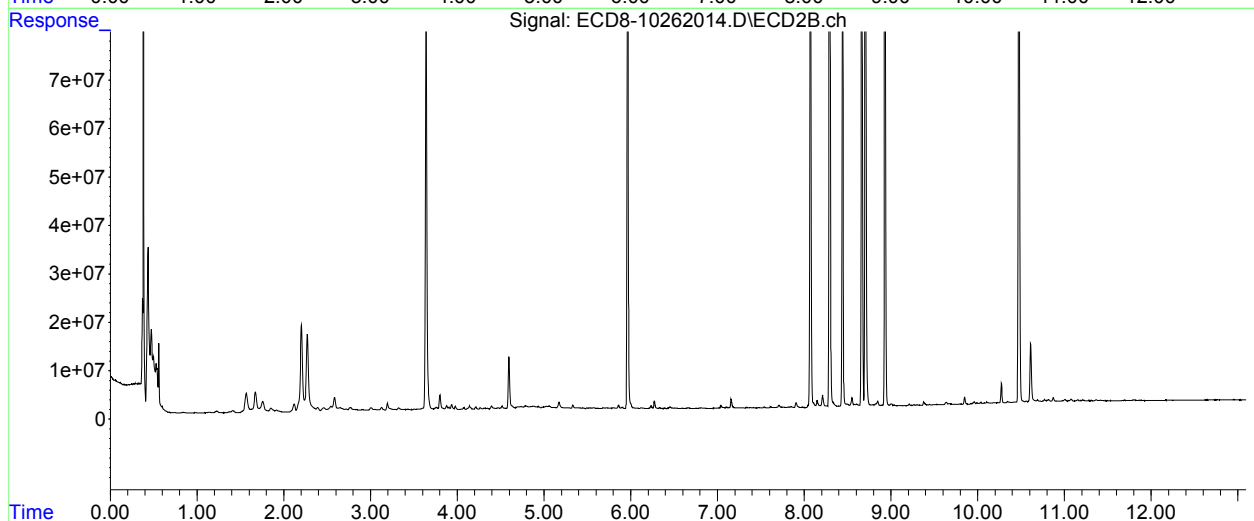
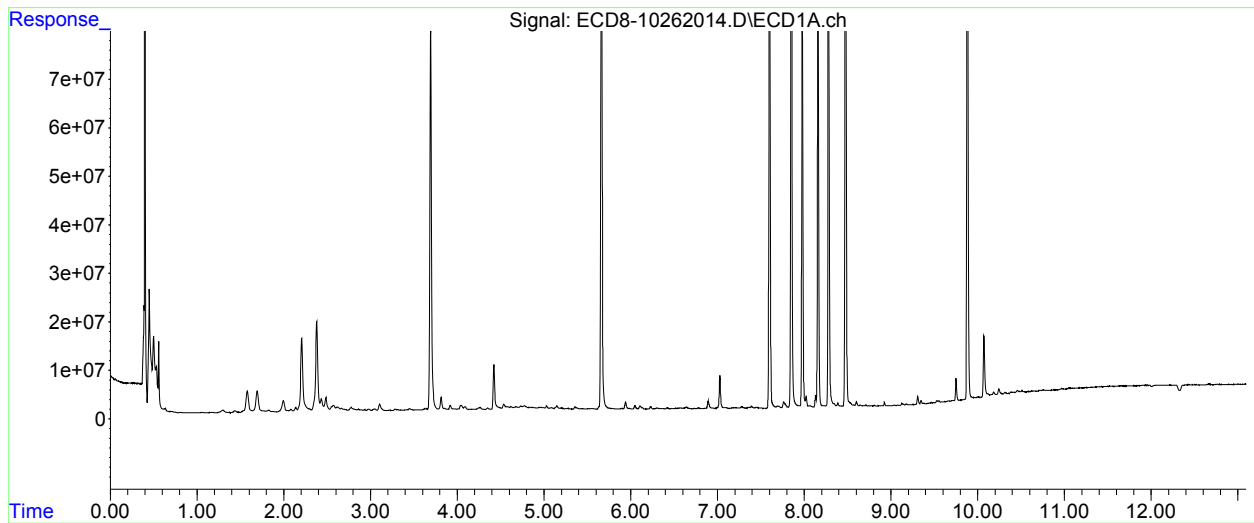
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262014.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:33  
Operator : MJB  
Sample : 0100834-BS1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:45:14 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



AML 10/27/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262015.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 15:50  
 Operator : MJB  
 Sample : A0J0344-01RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:02:45 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.661	5.965	104.1E6	108.4E6	29.446	27.083
22) S DCBP (S)	9.880	10.475	90210103	84986013	35.988	35.128
Target Compounds						
2) a-BHC	6.219	6.589f	1747734	3578911	0.371	0.669 #
3) g-BHC	6.480f	6.872	4038184	2640525	1.003	0.568 #
4) b-BHC	6.576	6.946	9674923	2593580	6.198	1.326 #
5) Heptachlor	6.885	7.258	3852596	8463090	0.949	1.849 #
6) d-BHC	6.752	7.193	1640701	4629447	0.592	1.213 #
7) Aldrin	7.117f	7.542f	2693445	3263599	0.686	0.764
8) Heptachlo...	7.633f	7.961	3999778	3916118	1.094	0.975
9) trans-Chl...	7.715	8.084	1815486	4699757	0.493	1.181 #
10) cis-Chlor...	7.783	8.195	2752315	15250596	0.760	3.931 #
11) Endosulfa...	7.912	8.257	1378707	3271242	0.405	0.910 #
12) 4,4'-DDE	7.839	8.292	4726301	4440296	1.500m	1.350
13) Dieldrin	8.069	8.418f	1407846	7068263	0.375	1.861 #
14) Endrin	8.216f	8.677	678482	2425313	0.247	0.963 #
15) 4,4'-DDD	8.281	8.705	7232426	4278270	2.659	1.495 # P11
16) Endosulfa...	8.401	8.816	881892	2515994	0.299	0.773 #
17) 4,4'-DDT	8.473	8.929	1180688	2513663	0.505	0.994 #
18) Endrin Al...	8.704	9.056	537640	4959013	BelowCal	1.429
19) Endosulfa...	9.008	9.245	1064434	2141314	0.356	0.644 #
20) Methoxychlor	8.807	9.390	4107547	2472432	2.984	1.708 #
21) Endrin Ke...	9.194	9.628	328331	2189139	0.089	0.560 #
23) Hexachlor...	3.475f	3.712f	1768998	1011479	0.348	0.089 #
24) Hexachlor...	6.049	6.445	1823942	37389885	0.545	9.394 #
25) Oxychlorane	7.503f	7.896	3349073	4687070	1.037	1.332 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262015.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 15:50  
 Operator : MJB  
 Sample : A0J0344-01RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:02:45 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.588	8.086	2104291	4632579	0.989m	1.909m#P01
27)	trans-Non...	7.783	8.139	2752315	4245078	0.762	1.077 #
28)	2,4'-DDD	7.975	8.418f	4783324	7068263	2.490R02	3.355 #P01
29)	2,4'-DDT	8.154	8.677	982657	2425313	0.458	1.031 #P01
30)	cis-Nonac...	8.281	8.705	7232426	4278270	1.834	1.000 #
31)	Mirex	8.919f	9.628	902036	2189139	0.077	0.583 #
32)	Chlordane...	7.715	8.084f	1815486	4699757	4.407	9.648 #
33)	Chlordane...	7.832	8.195f	6006126	15250596	14.329	36.837 #
34)	Chlordane...	8.379	8.880	1148504	2109263	8.906	15.595 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.783	8.418f	2752315	7068263	185.008	185.980
37)	Toxaphene...	8.113	8.784	3257529	2517341	98.897	53.396 #
38)	Toxaphene...	8.401	8.816	881892	2515994	12.721	35.773 #
39)	Toxaphene...	8.658	8.880	593747	2109263	7.978	17.705 #
40)	Toxaphene...	8.868f	9.056	1168071	4959013	19.677	71.984 #
41)	Toxaphene...	8.968	9.439	1404109	2725907	20.856	36.403 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

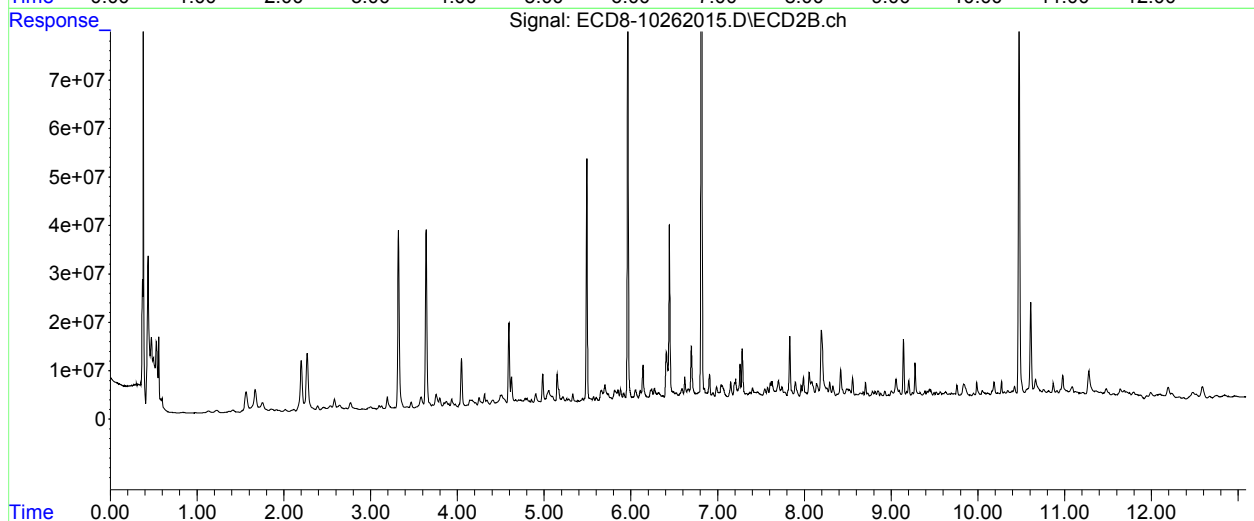
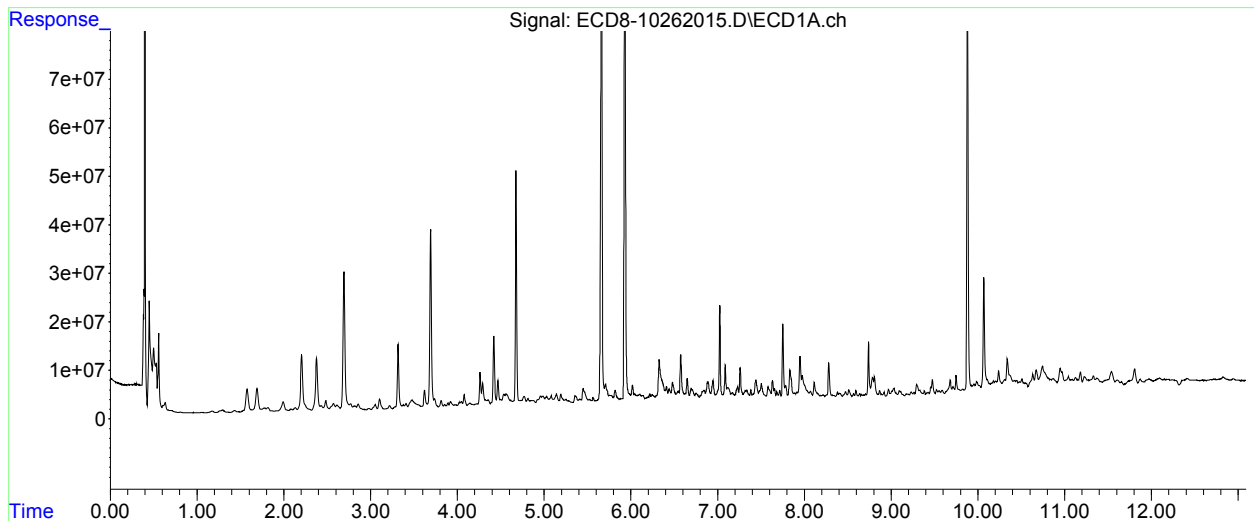
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:50  
Operator : MJB  
Sample : A0J0344-01RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:02:45 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

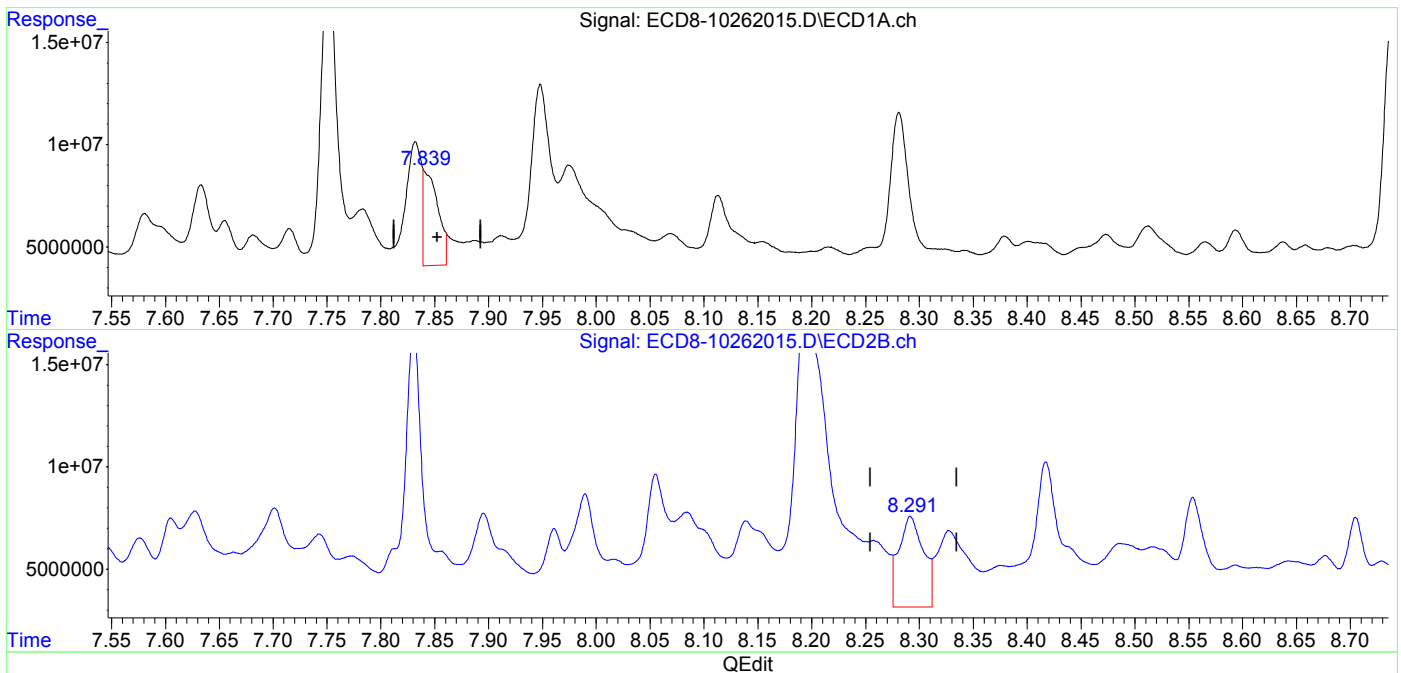


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:50  
Operator : MJB  
Sample : A0J0344-01RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:46:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.839min 1.500 ng/mL m  
response 4726301

MDL = MRL 10/29/2020 MKZ

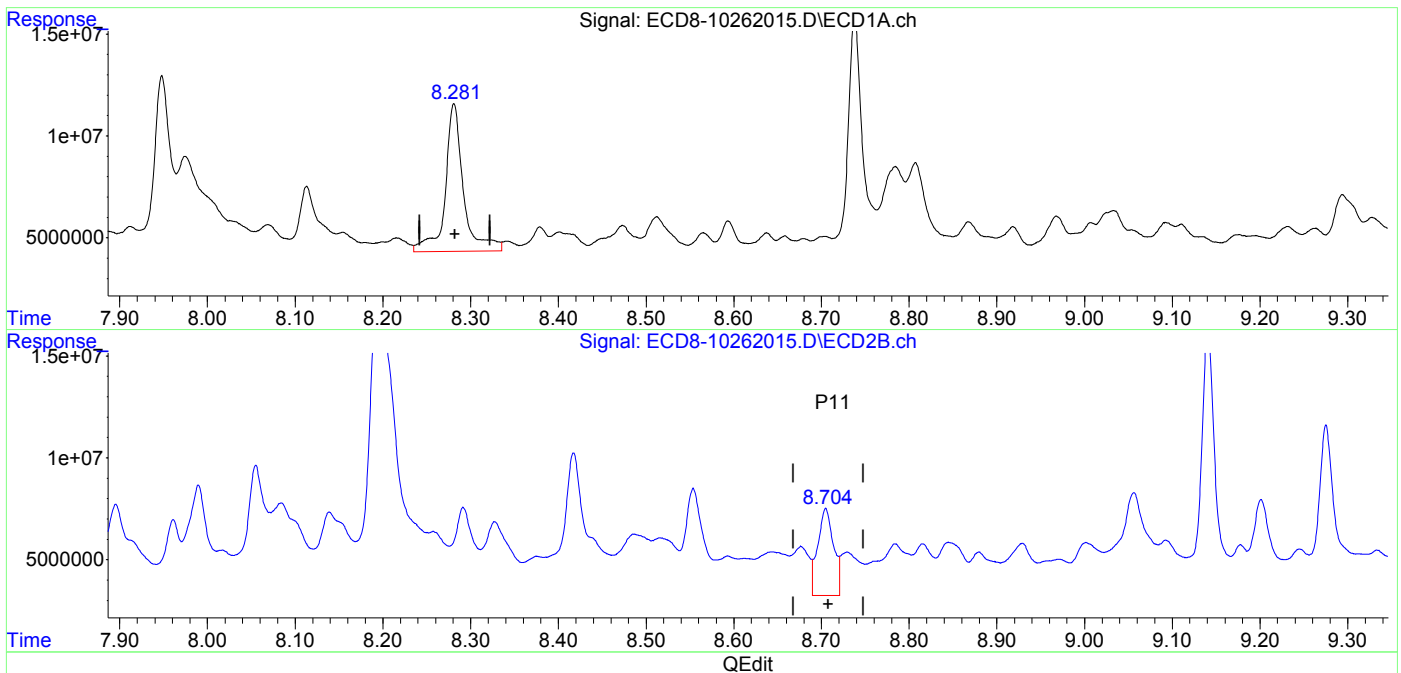
(12) 4,4'-DDE #2  
8.292min 1.356 ng/mL  
response 4440296

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:50  
Operator : MJB  
Sample : A0J0344-01RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:46:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD  
8.281min 2.659 ng/mL  
response 7232426

(15) 4,4'-DDD #2  
8.705min 1.495 ng/mL  
response 4278270

(+) = Expected Retention Time

ECD8\_QUANTPEST\_201015.M Tue Oct 27 17:01:16 2020

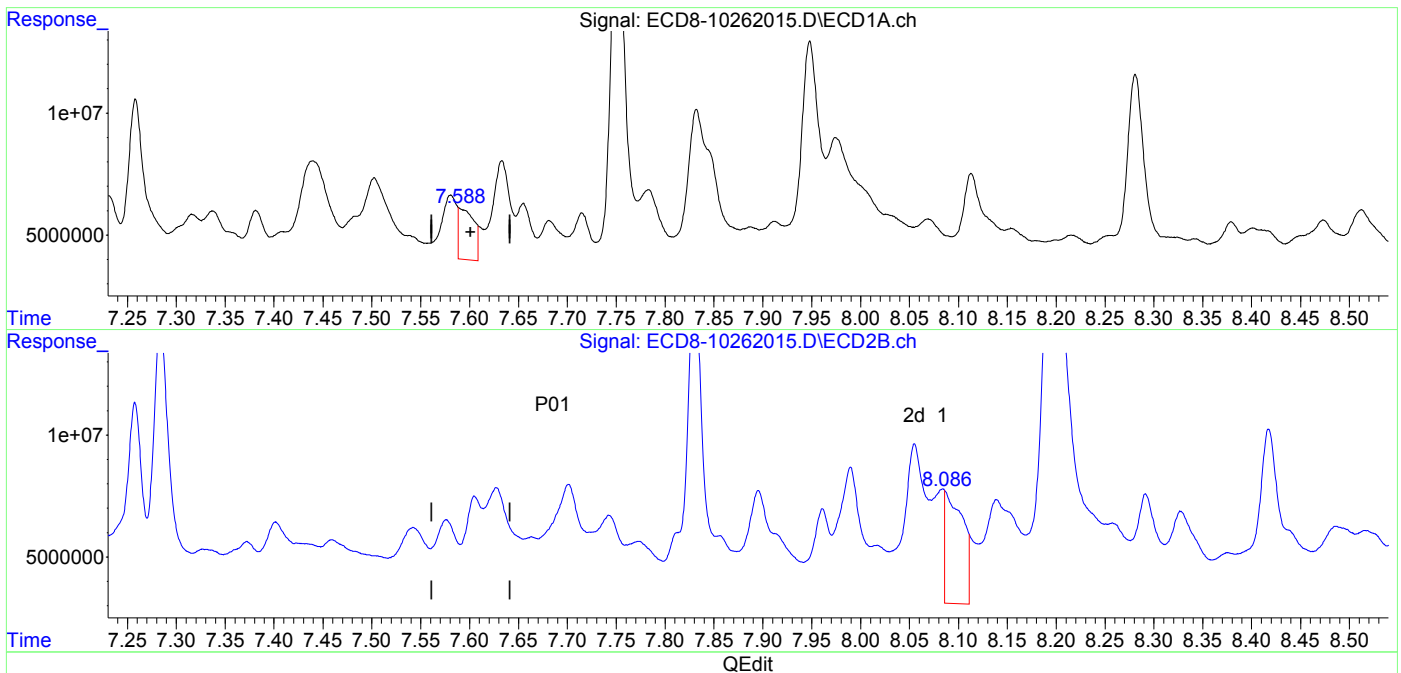
Page: 1

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:50  
Operator : MJB  
Sample : A0J0344-01RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:46:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE  
7.588min 0.989 ng/mL m  
response 2104291  
  
(26) 2,4'-DDE #2  
8.086min 1.909 ng/mL m  
response 4632579

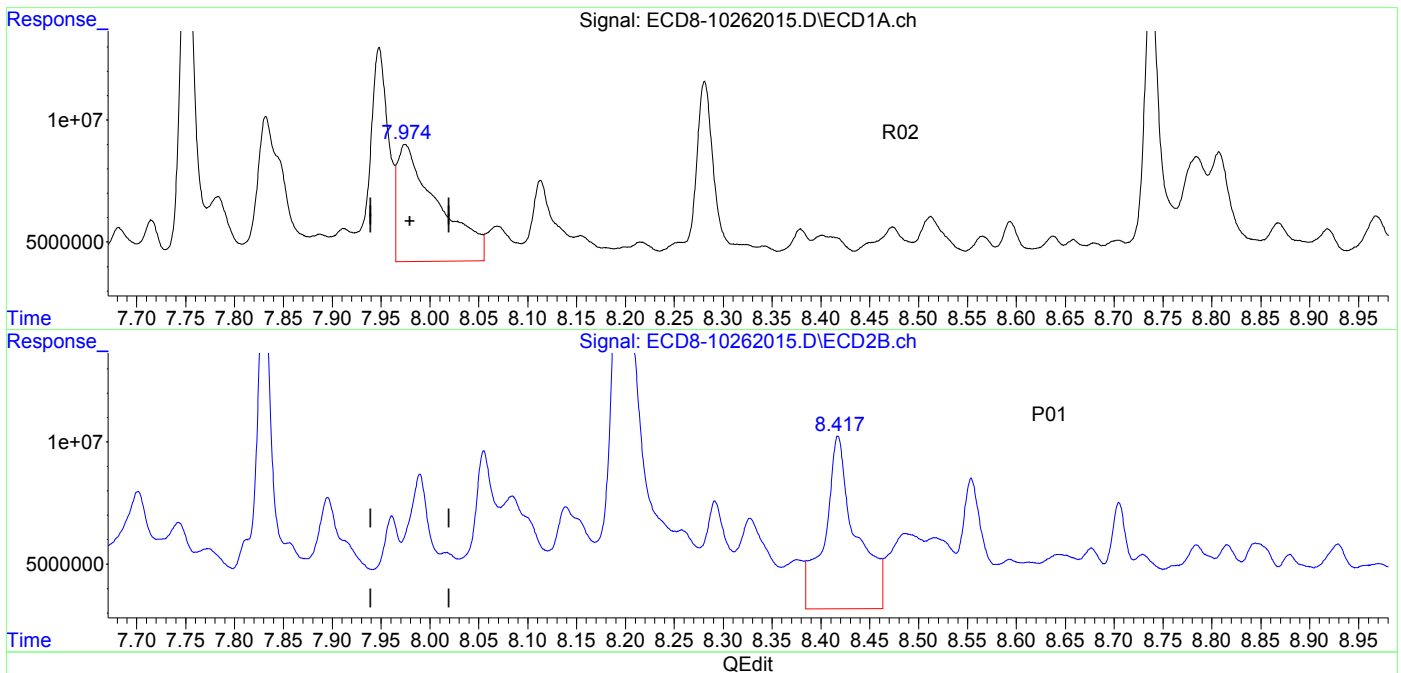


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:50  
Operator : MJB  
Sample : A0J0344-01RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:46:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD  
7.975min 2.490 ng/mL  
response 4783324

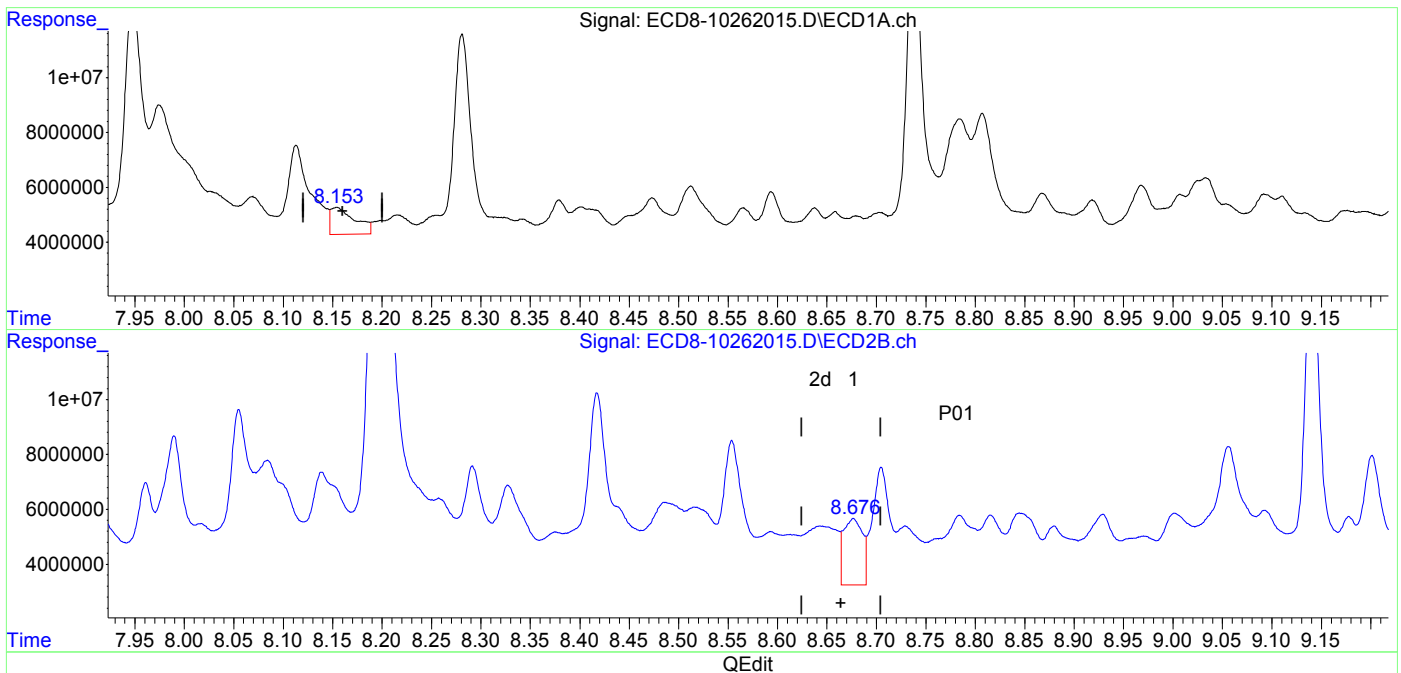
(28) 2,4'-DDD #2  
8.418min 3.355 ng/mL  
response 7068263

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 15:50  
Operator : MJB  
Sample : A0J0344-01RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 16:46:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT  
8.154min 0.458 ng/mL  
response 982657  
  
(29) 2,4'-DDT #2  
8.677min 1.031 ng/mL  
response 2425313

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262016.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:06  
 Operator : MJB  
 Sample : 0100834-DUP1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:11:35 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.662	5.966	125.7E6	130.8E6	35.544	32.702
22) S DCBP (S)	9.882	10.476	115.3E6	109.1E6	46.015	45.091
Target Compounds						
2) a-BHC	6.219	6.591f	5203130	3320196	1.104	0.621 #
3) g-BHC	6.482	6.870	5950511	2457930	1.479	0.529 #
4) b-BHC	6.576	6.946	10879799	2433385	6.970	1.244 #
5) Heptachlor	6.915	7.258	4124205	8020492	1.016	1.752 #
6) d-BHC	6.752	7.194	4044940	4092547	1.374	1.081 #
7) Aldrin	7.118f	7.545f	5009374	2847341	1.275	0.667 #
8) Heptachlo...	7.634f	7.961	4813183	2404821	1.317	0.599 #
9) trans-Chl...	7.716	8.085	4533676	4469084	1.231	1.123 #
10) cis-Chlor...	7.782	8.196	5708505	15110685	1.576	3.895 #
11) Endosulfa...	7.911	0.000	4425193	0	1.301	N.D. #
12) 4,4'-DDE	7.840	8.292	7710029	4323086	2.447m	1.322 #P11
13) Dieldrin	8.069	8.418f	4555458	6436443	1.213	1.696 #
14) Endrin	8.216f	8.677	4009967	2201415	1.462	0.877 #
15) 4,4'-DDD	8.282	8.705	9486848	3788917	3.488	1.324 #P11
16) Endosulfa...	8.415	8.818	3992485	2324938	1.355	0.714 #
17) 4,4'-DDT	8.473	8.927	4069395	2016493	1.660	0.810 #
18) Endrin Al...	8.702	9.057	3956231	2341938	1.094	0.531 #
19) Endosulfa...	8.990	9.245	4180167	2254510	1.399	0.679 #
20) Methoxychlor	8.807	9.391	5679432	2401061	4.126	1.657 #
21) Endrin Ke...	9.197	9.627	4077409	2104716	1.103	0.539 #
23) Hexachlor...	3.472	3.712f	2797891	1033463	0.678	0.095 #
24) Hexachlor...	6.048	6.446	3919533	40211169	1.172	10.103 #
25) Oxychlorane	7.504f	7.896	5737645	4031764	1.777	1.146 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262016.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:06  
 Operator : MJB  
 Sample : 0100834-DUP1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:11:35 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.582	8.085	5506449	4469084	2.589 R02	1.842 #P01
27)	trans-Non...	7.782	8.140	5708505	3959566	1.580	1.004 #
28)	2,4'-DDD	7.978	8.418f	7537929	6436443	3.923 R02	3.041 P01
29)	2,4'-DDT	8.161	8.677	4105443	2201415	1.913 MDL=MR	1.923 #P01
30)	cis-Nonac...	8.282	8.705	9486848	3788917	2.406	0.886 #
31)	Mirex	8.921	9.627	4251967	2104716	1.511	0.547 #
32)	Chlordane...	7.716	8.085f	4533676	4469084	11.005	9.174
33)	Chlordane...	7.833	8.196	9372138	15110685	22.359	36.499 #
34)	Chlordane...	8.381	8.880	4602941	1922702	35.694	14.216 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.782f	8.418f	5708505	6436443	383.719	169.355 #
37)	Toxaphene...	8.115	8.783	5671811	2205301	172.193	46.778 #
38)	Toxaphene...	8.415	8.818	3992485	2324938	57.592	33.056 #
39)	Toxaphene...	8.659	8.899	3910076	1649821	52.540	13.849 #
40)	Toxaphene...	8.868f	9.071	4423048	2253527	74.508	32.712 #
41)	Toxaphene...	8.968	9.440	4946117	3252682	73.466	43.438 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

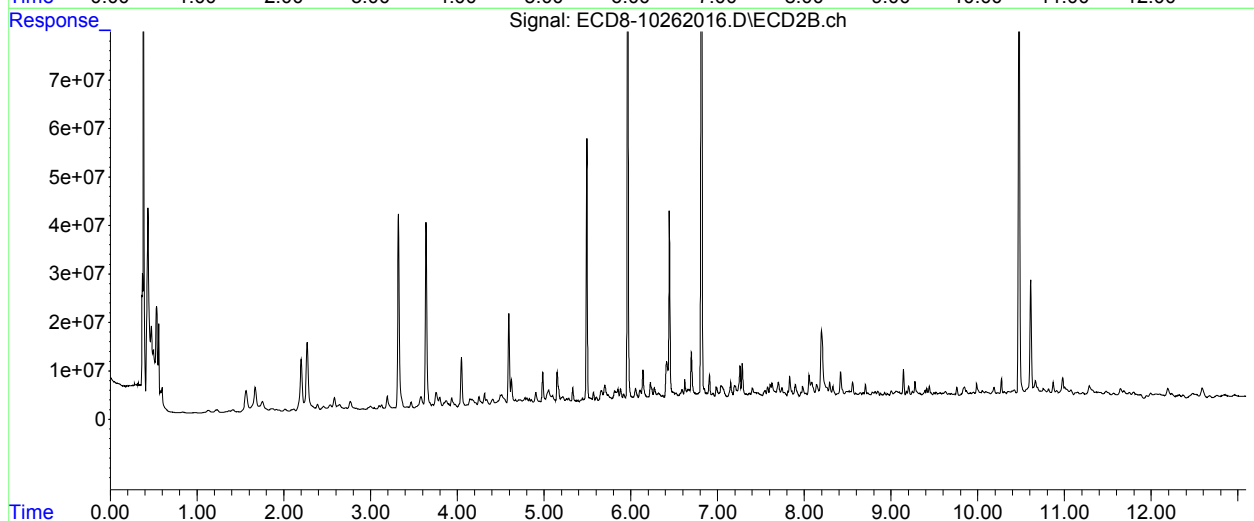
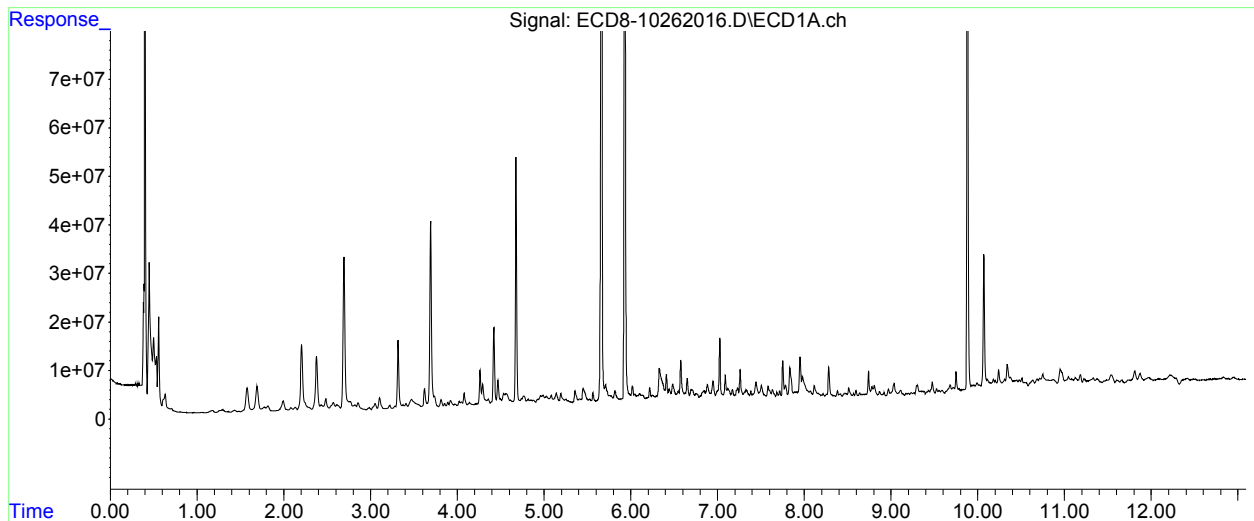
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:11:35 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

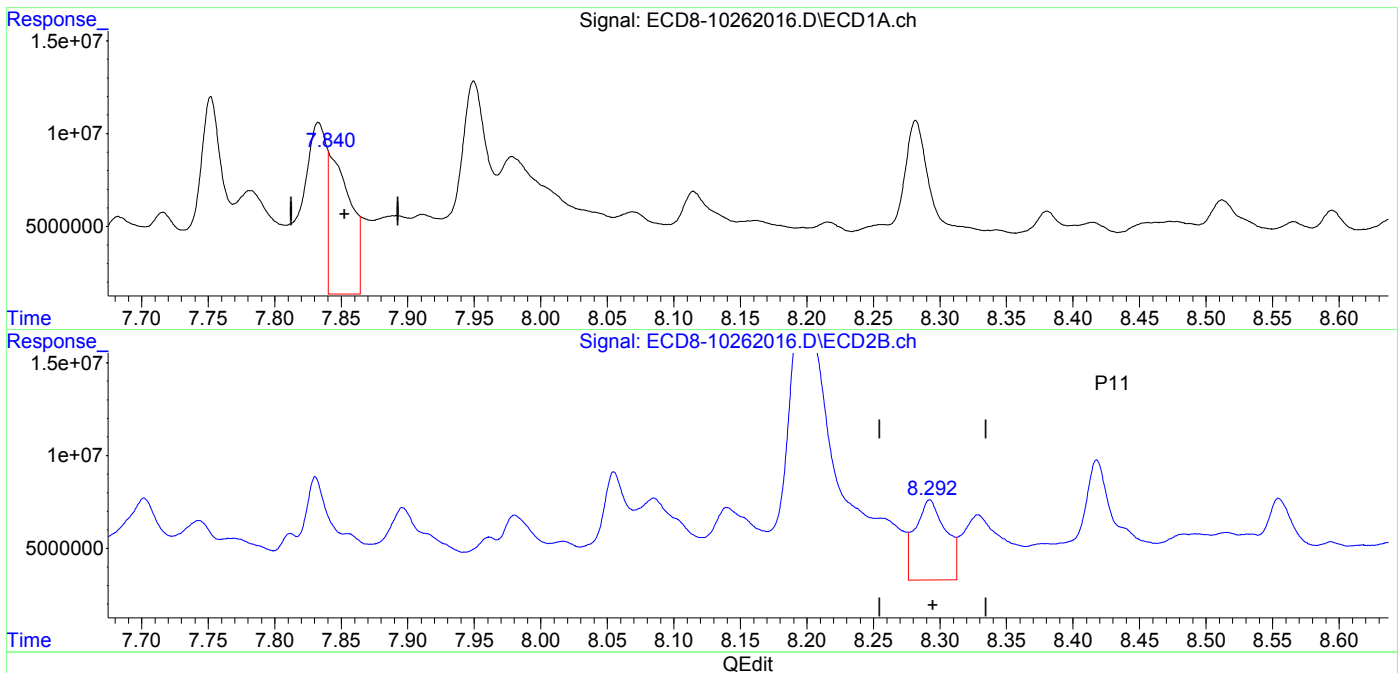


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:10:00 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.840min 2.447 ng/mL m  
response 7710029

MDL=MRL MKZ 10/29/2020

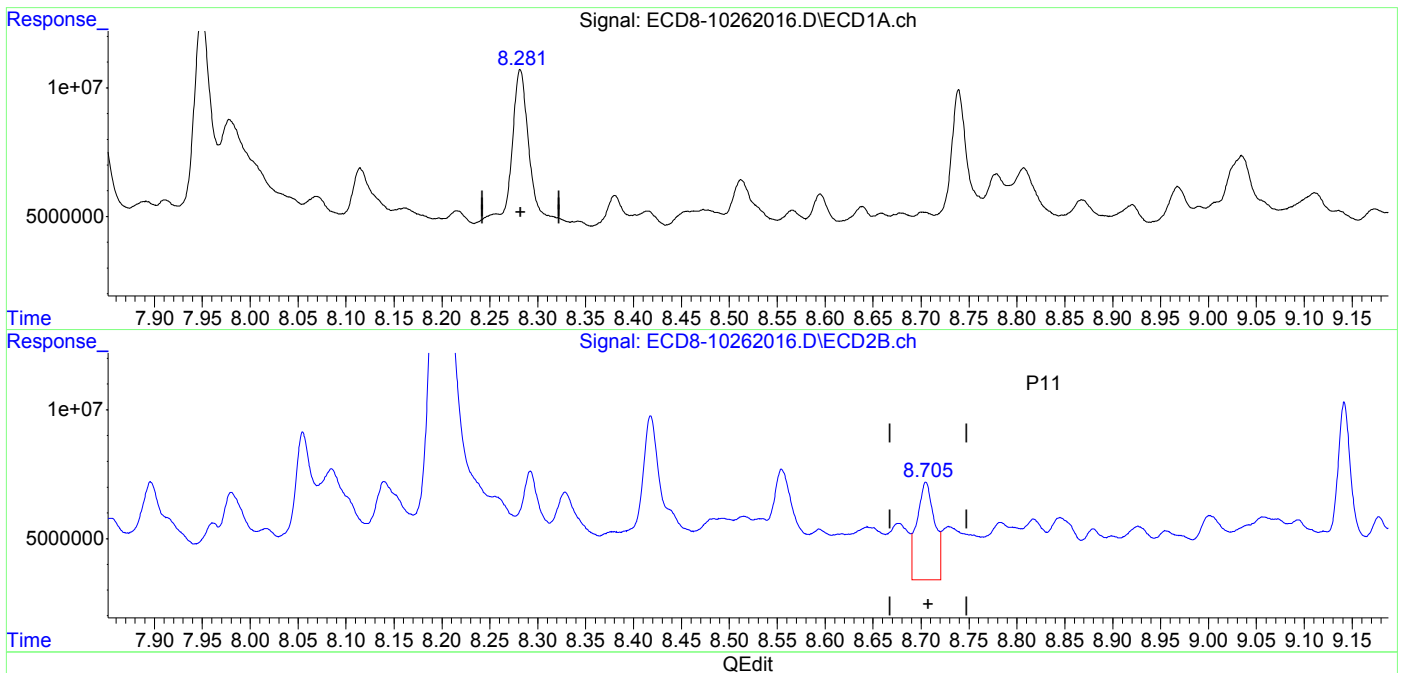
(12) 4,4'-DDE #2  
8.292min 1.322 ng/mL  
response 4323086

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:10:00 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



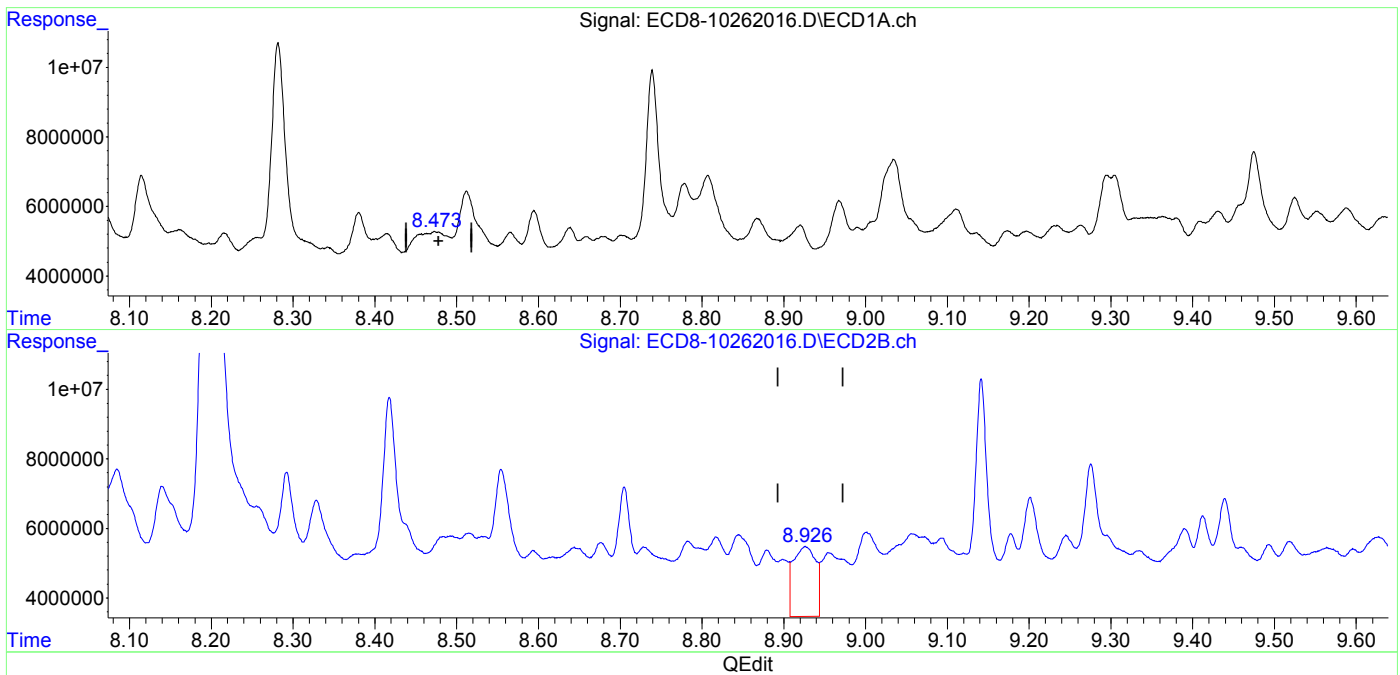
(15) 4,4'-DDD  
8.282min 3.488 ng/mL  
response 9486848  
  
(15) 4,4'-DDD #2  
8.705min 1.324 ng/mL  
response 3788917

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:10:00 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT  
8.473min 1.660 ng/mL  
response 4069395

(17) 4,4'-DDT #2  
8.927min 0.810 ng/mL  
response 2016493

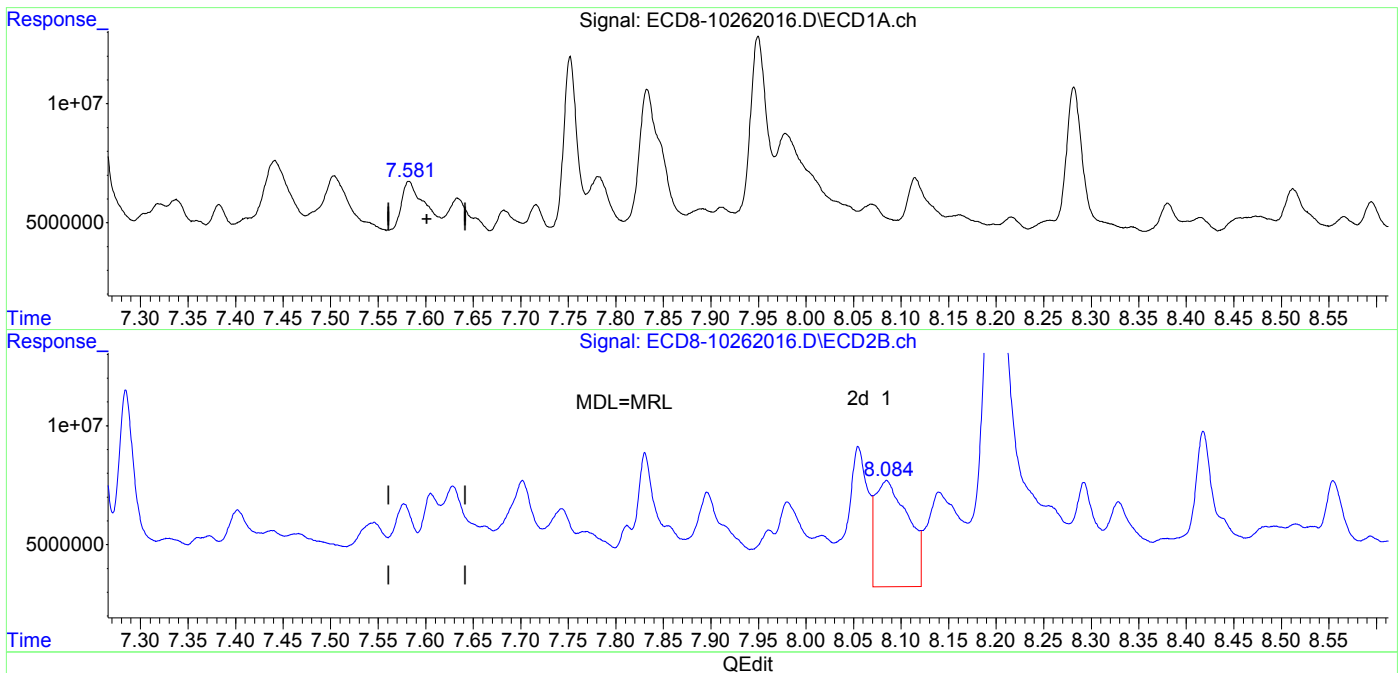


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:10:00 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE  
7.582min 2.589 ng/mL  
response 5506449

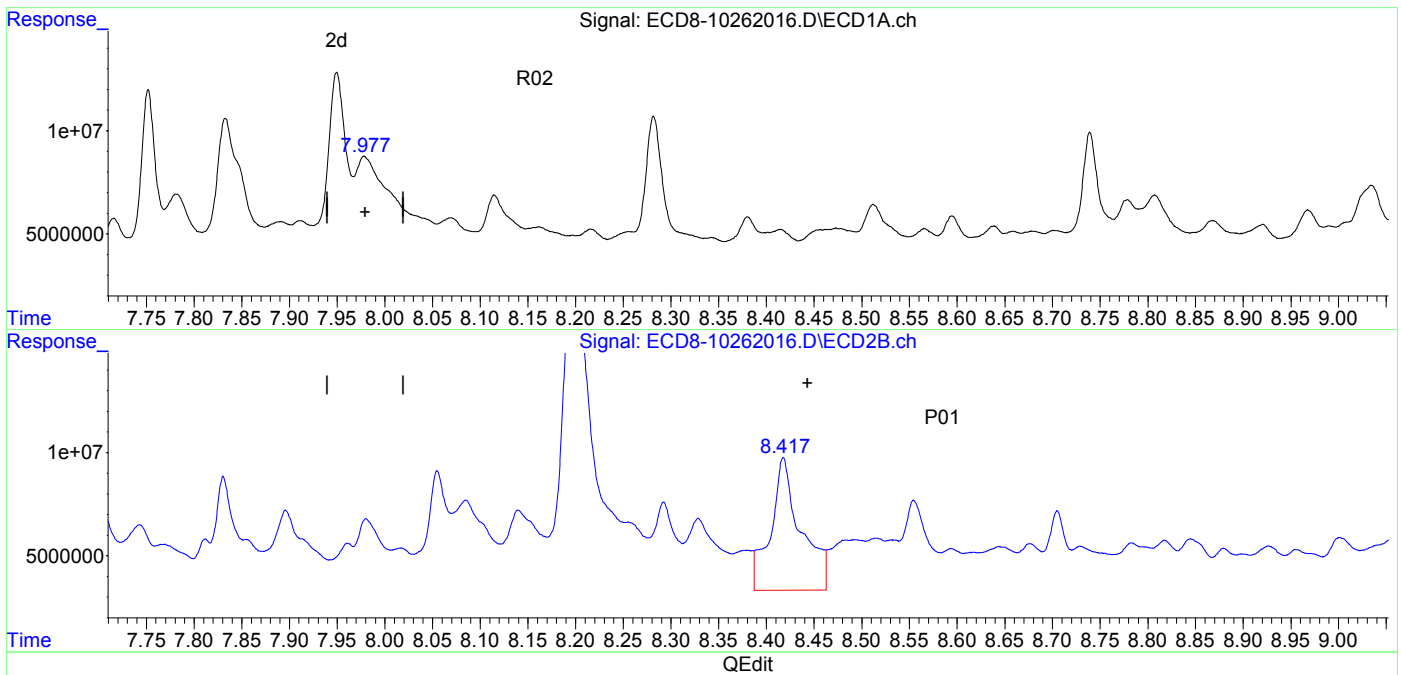
(26) 2,4'-DDE #2  
8.085min 1.842 ng/mL  
response 4469084

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:10:00 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD  
7.978min 3.923 ng/mL  
response 7537929

(28) 2,4'-DDD #2  
8.418min 3.041 ng/mL  
response 6436443

(+) = Expected Retention Time  
ECD8\_QUANTPEST\_201015.M Tue Oct 27 17:17:30 2020

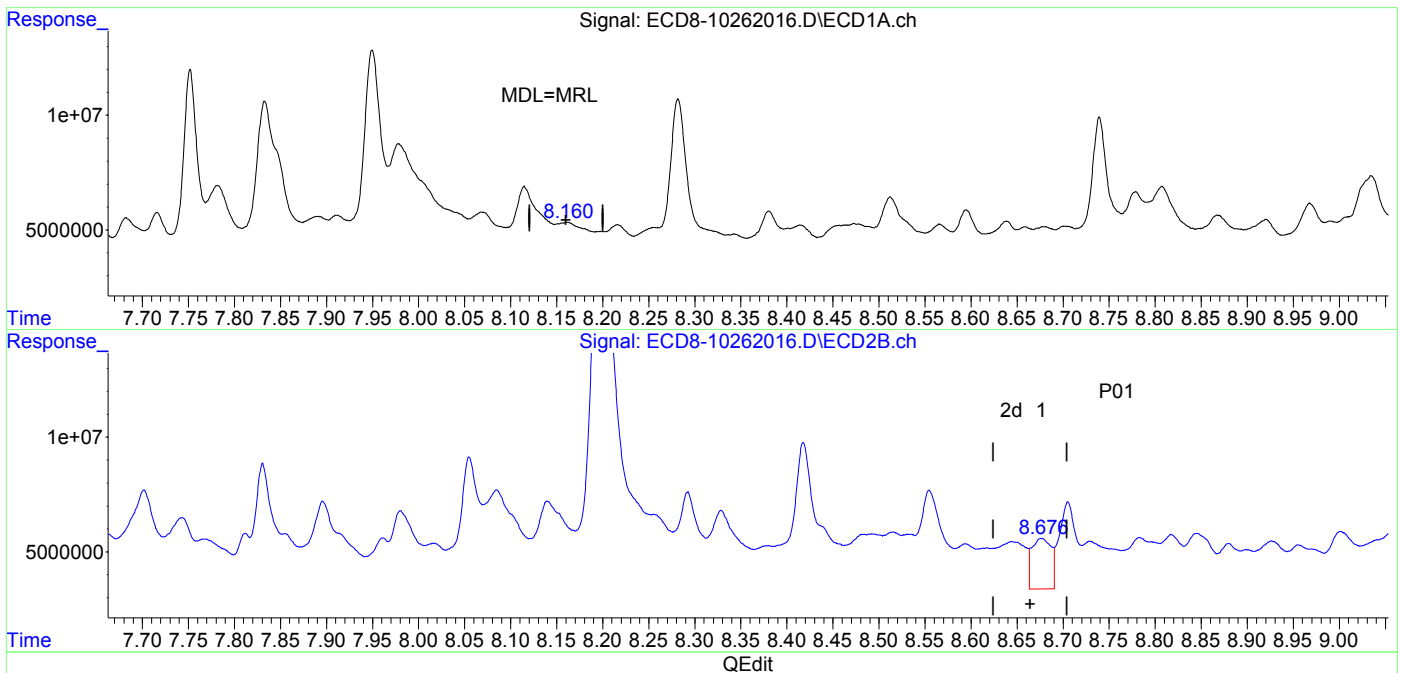
Page: 1

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:06  
Operator : MJB  
Sample : 0100834-DUP1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:10:00 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT  
8.161min 1.913 ng/mL  
response 4105443  
  
(29) 2,4'-DDT #2  
8.677min 0.923 ng/mL  
response 2201415

*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262017.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:23  
 Operator : MJB  
 Sample : A0J0344-02RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:25:29 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.660	5.965	106.6E6	103.3E6	30.135	25.819
22) S DCBP (S)	9.881	10.474	108.1E6	107.1E6	43.159	44.265
Target Compounds						
2) a-BHC	6.194f	6.586f	1544103	4770429	0.328	0.892 #
3) g-BHC	6.475f	6.869	6017994	4016736	1.495	0.864 #
4) b-BHC	6.572	6.944	17684872	3825681	11.330	1.955 #
5) Heptachlor	6.884	7.256	4835061	13165717	1.191	2.877 #
6) d-BHC	6.749	7.190	2737897	6297175	0.949	1.625 #
7) Aldrin	7.161	7.540f	2518300	4667653	0.641	1.093 #
8) Heptachlo...	7.594	7.960	3385776	3931426	0.926	0.979
9) trans-Chl...	7.715	8.083	3255937	5769247	0.884	1.449 #
10) cis-Chlor...	7.779f	8.194	4198415	16809275	1.159	4.333 #
11) Endosulfa...	7.911	8.259	2035053	4427750	0.598	1.231 #
12) 4,4'-DDE	7.839	8.291	5745484	5910496	1.823m	1.788 MDL=M
13) Dieldrin	8.069	8.416f	2033654	17697666	0.541	4.615 #
14) Endrin	8.281f	8.676	17144850	2885183	6.252	1.141 #
15) 4,4'-DDD	8.281	8.704	17144850	5687962	6.304	1.985 MDL
16) Endosulfa...	8.415	8.818	1020617	2728035	0.347	0.838 #
17) 4,4'-DDT	8.476	8.925	1233059	3058927	0.526	1.195 #P01
18) Endrin Al...	8.700	9.055	1508882	2925800	0.231	0.732 #
19) Endosulfa...	9.035f	9.244	3998012	3219806	1.338	0.969 #
20) Methoxychlor	8.807	9.388	2416852	3421174	1.756	2.380 #
21) Endrin Ke...	9.194	9.628	943503	3206276	0.255	0.821 #
23) Hexachlor...	3.468	3.712f	2186589	934632	0.482	0.068 #
24) Hexachlor...	6.050	6.445	2394629	53851525	0.716	13.530 #
25) Oxychlorane	7.539	7.895	1680870	5490803	0.520	1.560 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262017.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:23  
 Operator : MJB  
 Sample : A0J0344-02RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:25:29 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.594	8.083	3385776	5769247	1.592	MDL= 2.377	#P01
27)	trans-Non...	7.779	8.153	4198415	11048815	1.162		#
28)	2,4'-DDD	7.974	8.416f	4997565	17697666	2.601	R02	#P01
29)	2,4'-DDT	8.157	8.676	1501367	2885183	0.700		#P01
30)	cis-Nonac...	8.281	8.704	17144850	5687962	4.348		#
31)	Mirex	8.919f	9.628	2518283	3206276	0.769		#
32)	Chlordane...	7.715	8.083f	3255937	5769247	7.904		#
33)	Chlordane...	7.832	8.194f	7148842	16809275	17.055		#
34)	Chlordane...	8.378	8.879	1650094	2315407	12.796		#
35)	Chlordane...	0.000	0.000	0	0	N.D.		N.D.
36)	Toxaphene...	7.779f	8.416f	4198415	17697666	282.213		465.660 #
37)	Toxaphene...	8.113	8.781	4502384	3341140	136.690		70.870 #
38)	Toxaphene...	8.415	8.818	1020617	2728035	14.723		38.788 #
39)	Toxaphene...	8.637f	8.897	1090757	2480223	14.657		20.819 #
40)	Toxaphene...	8.919f	9.072	2518283	2750502	42.422		39.926
41)	Toxaphene...	8.970	9.436	1769466	4952580	26.282		66.139 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.		N.D.

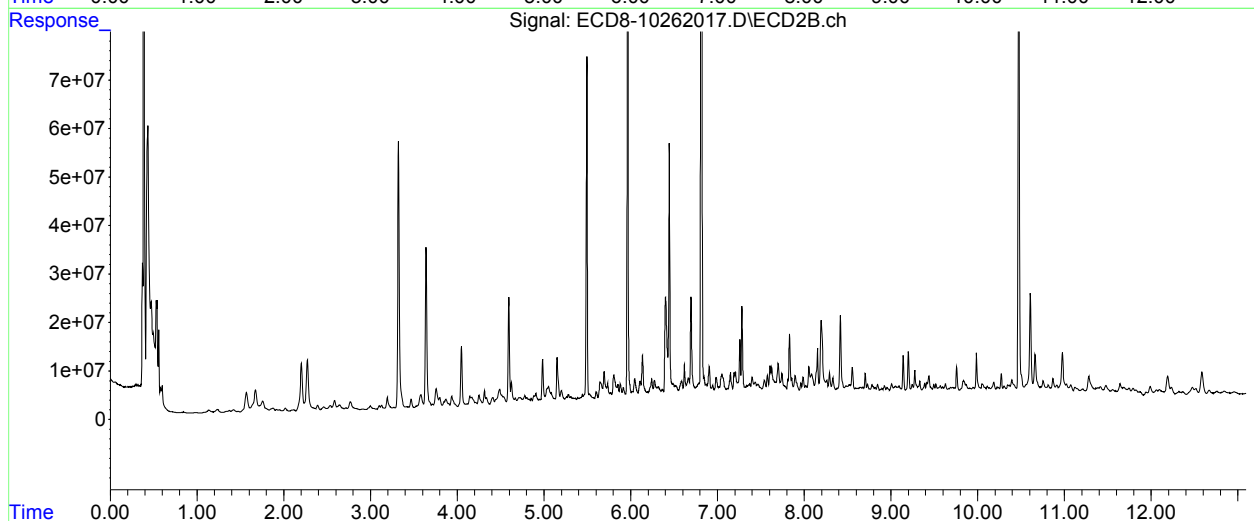
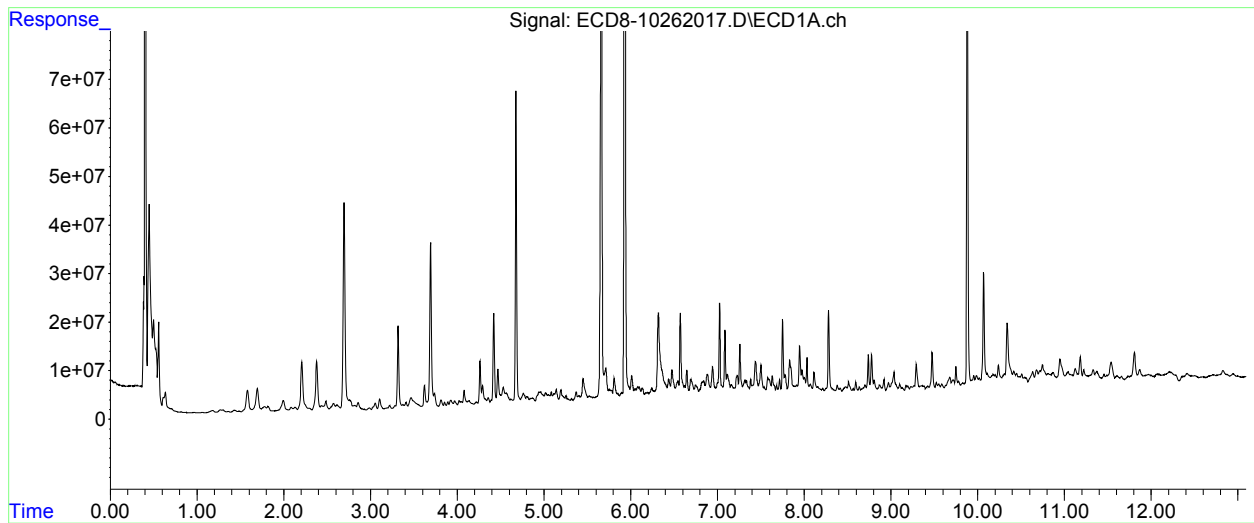
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:25:29 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

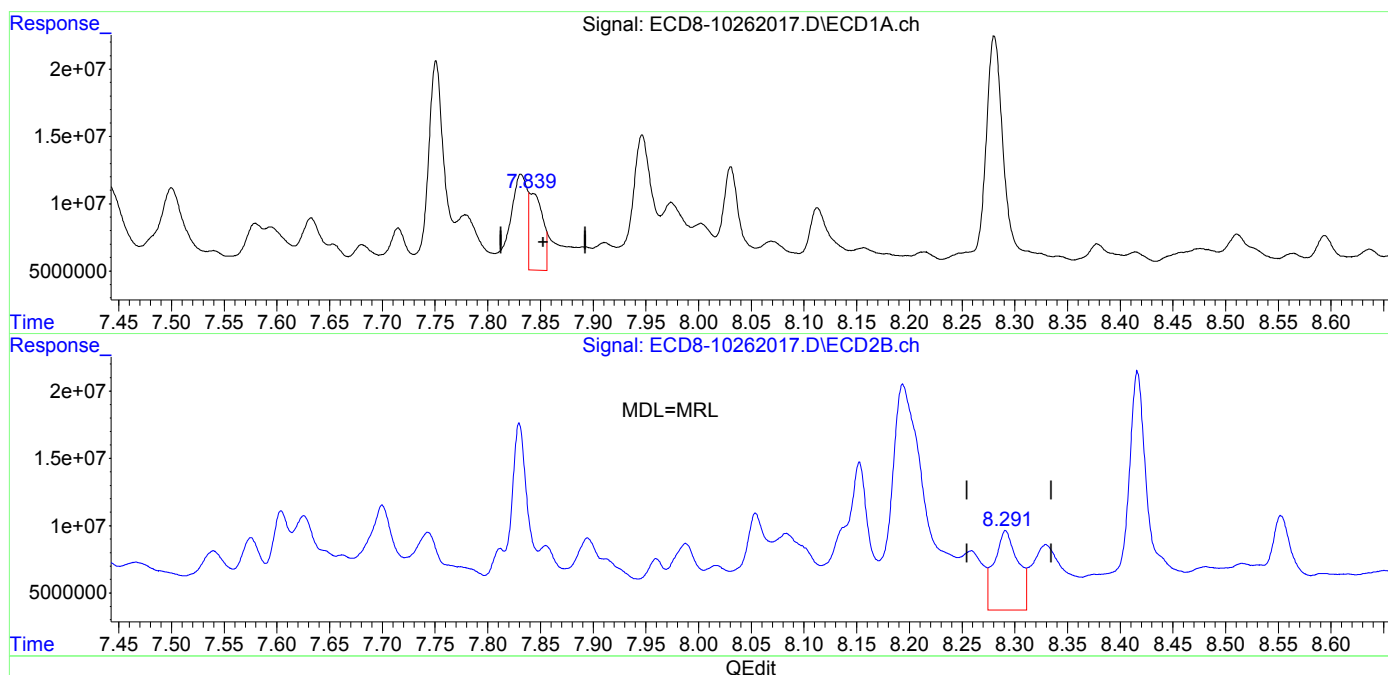


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:23:50 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.839min 1.823 ng/mL m  
response 5745484

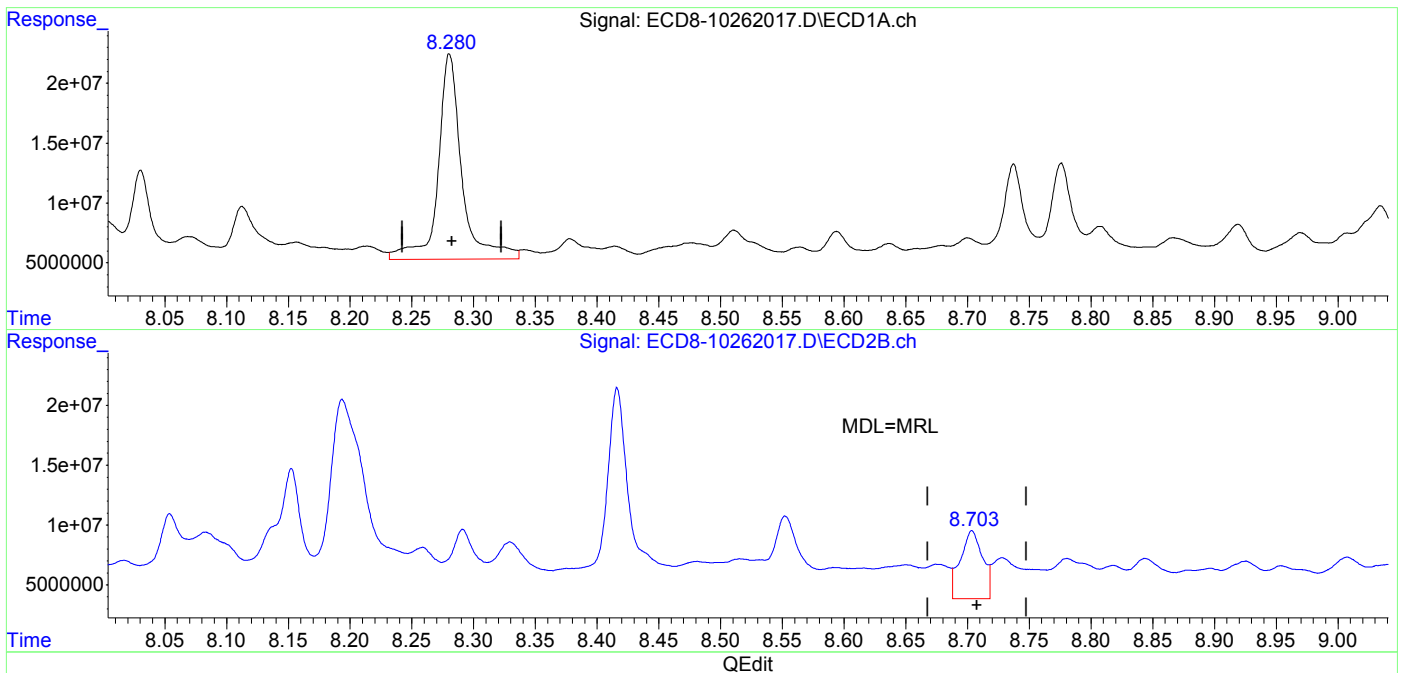
(12) 4,4'-DDE #2  
8.291min 1.788 ng/mL  
response 5910496

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:23:50 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD  
8.281min 6.304 ng/mL  
response 17144850  
  
(15) 4,4'-DDD #2  
8.704min 1.985 ng/mL  
response 5687962

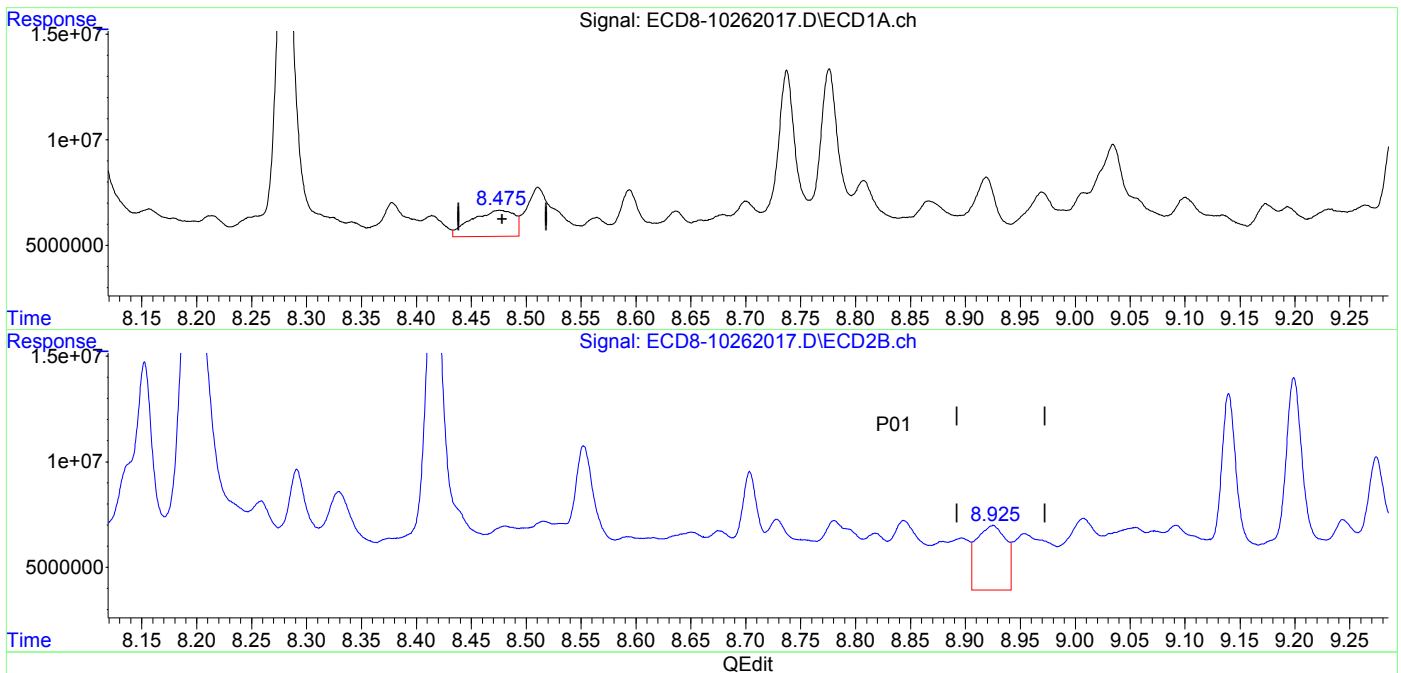


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:23:50 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



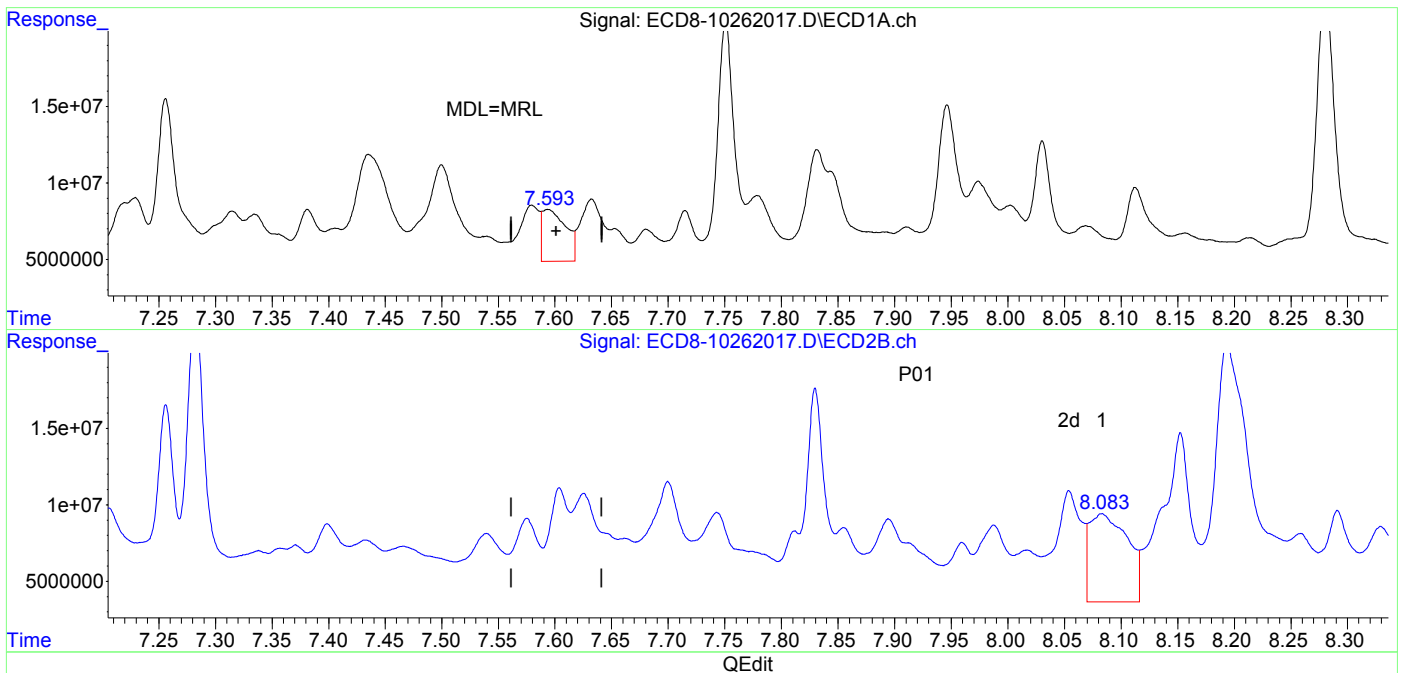
(17) 4,4'-DDT  
8.476min 0.526 ng/mL  
response 1233059  
  
(17) 4,4'-DDT #2  
8.925min 1.195 ng/mL  
response 3058927

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:23:50 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



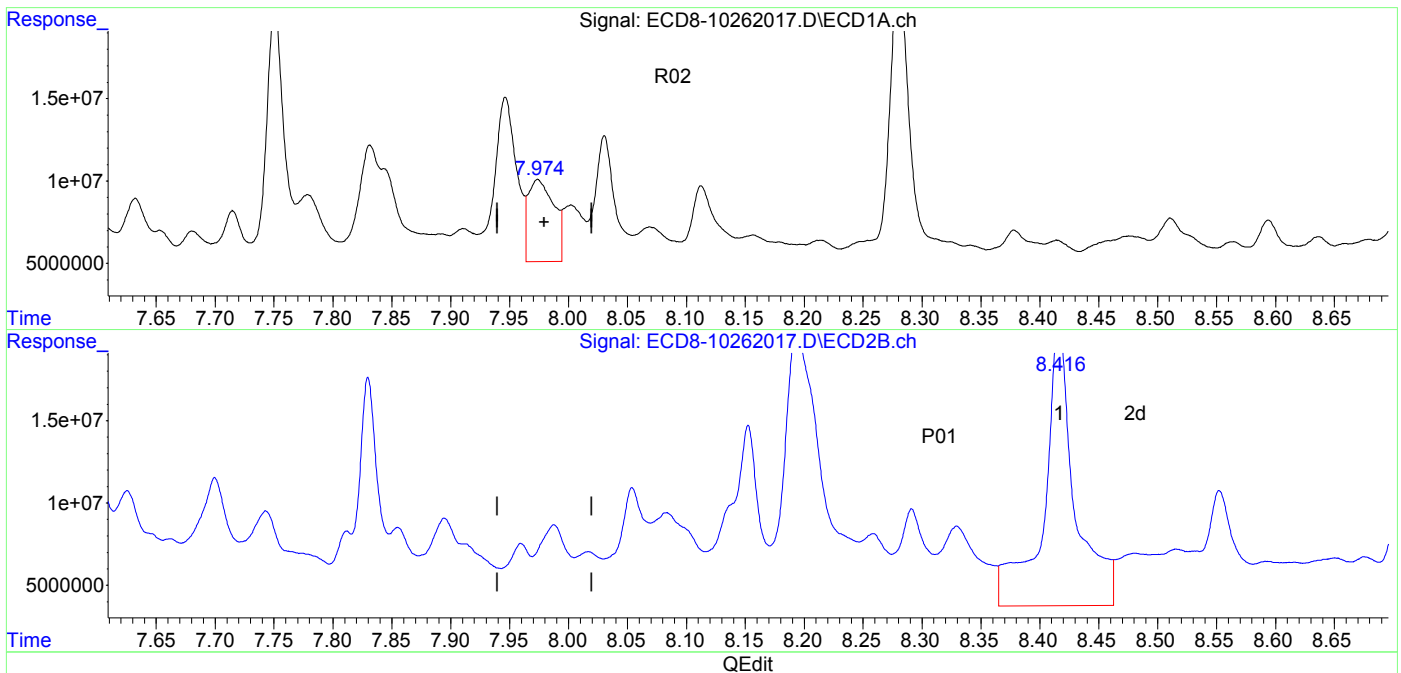
(26) 2,4'-DDE  
7.594min 1.592 ng/mL  
response 3385776  
  
(26) 2,4'-DDE #2  
8.083min 2.377 ng/mL  
response 5769247

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:23:50 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD  
7.974min 2.601 ng/mL  
response 4997565

(28) 2,4'-DDD #2  
8.416min 8.610 ng/mL  
response 17697666

(+) = Expected Retention Time  
ECD8\_QUANTPEST\_201015.M Tue Oct 27 17:31:45 2020

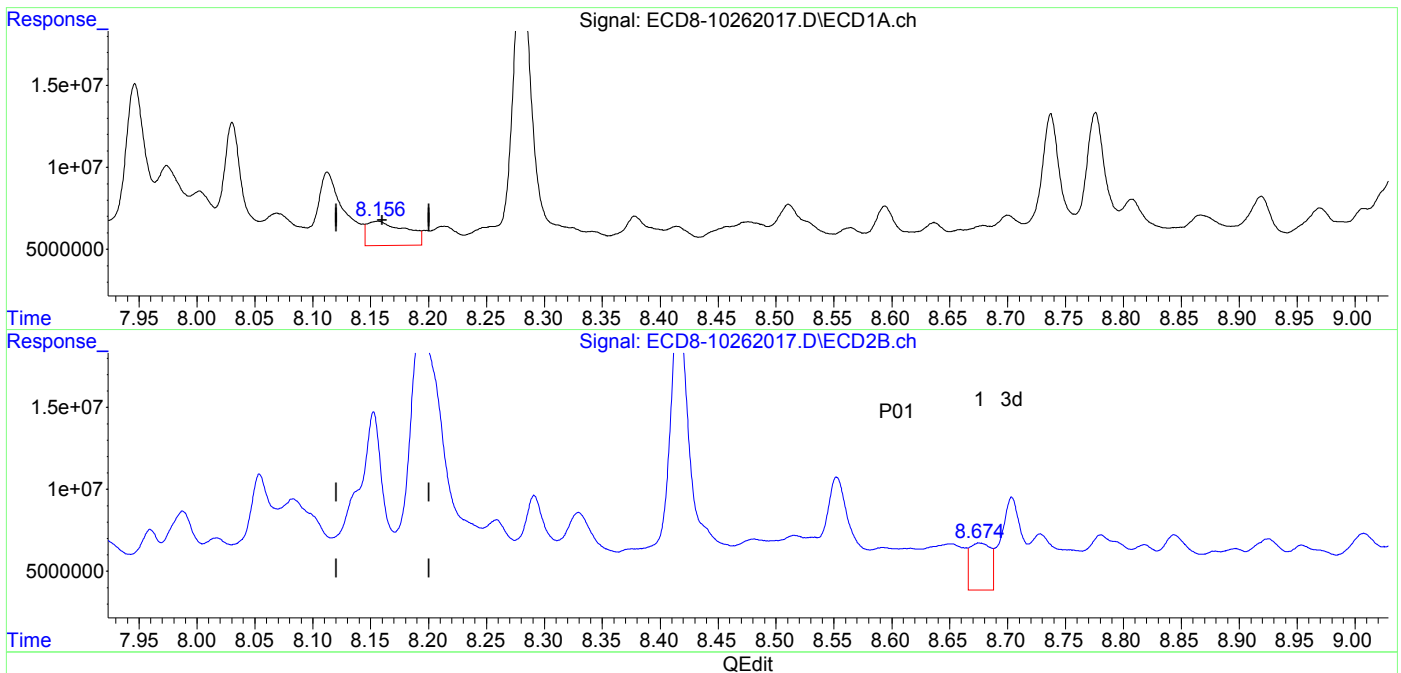
Page: 1

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:23  
Operator : MJB  
Sample : A0J0344-02RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:23:50 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT  
8.157min 0.700 ng/mL  
response 1501367

(29) 2,4'-DDT #2  
8.676min 1.255 ng/mL  
response 2885183

AML 10/27/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262018.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:39  
 Operator : MJB  
 Sample : A0J0344-03RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:39:52 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.661	5.965	80845240	84360583	22.861	21.086
22) S DCBP (S)	9.880	10.473	103.5E6	94620439	41.299	39.111
Target Compounds						
2) a-BHC	6.220	6.570	1439616	1569985	0.306	0.294
3) g-BHC	6.485	6.876	2680510	1452564	0.666	0.312 #
4) b-BHC	6.579	6.946	5108535	1635950	3.273	0.836 #
5) Heptachlor	6.883	7.258	2272267	4226834	0.560	0.924 #
6) d-BHC	6.715f	7.207	1563526	2556125	0.567	0.701
7) Aldrin	7.118f	7.547f	1491369	1860167	0.380	0.436
8) Heptachlo...	7.635f	7.962	2011524	1730176	0.550	0.431
9) trans-Chl...	7.715	8.085	1021724	3353124	0.277	0.842 #
10) cis-Chlor...	7.783	8.203	1909829	8003451	0.527	2.063 #
11) Endosulfa...	7.913	8.257	1142434	2144883	0.336	0.596 #
12) 4,4'-DDE	7.832f	8.292	5244533	3092457	1.664	0.960 #
13) Dieldrin	8.064	8.417f	1654574	8805767	0.440	2.313 #
14) Endrin	8.215f	8.653	575825	1560157	0.210	0.630 #
15) 4,4'-DDD	8.282	8.704	7947616	3460819	2.922	1.210 #MDL
16) Endosulfa...	8.414	8.813	626487	1648642	0.213	0.506 #
17) 4,4'-DDT	8.473	8.928	941388	1906871	0.409	0.770 #
18) Endrin Al...	8.698	9.058	1438806	2361704	0.207	0.538 #
19) Endosulfa...	9.035f	9.246	1957894	2141141	0.655	0.644
20) Methoxychlor	8.809	9.388	2438208	2068821	1.771	1.422
21) Endrin Ke...	9.192	9.627	486161	1999915	0.131	0.512 #
23) Hexachlor...	3.453	3.711f	553452	540726	BelowCal	BelowCal
24) Hexachlor...	6.048	6.420	1244305	6019071	0.372	1.512 #
25) Oxychlorane	7.542	7.896	645960	2942991	0.200	0.836 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262018.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:39  
 Operator : MJB  
 Sample : A0J0344-03RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:39:52 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.583	8.085	1934883	3353124	0.910	1.382	#P01
27)	trans-Non...	7.783	8.139	1909829	3237063	0.529	0.821	#
28)	2,4'-DDD	7.973	8.417f	1881123	8805767	0.979m	4.219	#P01
29)	2,4'-DDT	8.161	8.653	806490	1560157	0.376	0.611	#
30)	cis-Nonac...	8.282	8.704	7947616	3460819	2.015	0.809	#
31)	Mirex	8.920	9.627	1199120	1999915	0.204	0.503	#
32)	Chlordane...	7.715	8.101	1021724	3667831	2.480	7.529	#
33)	Chlordane...	7.832	8.203	5244533	8003451	12.512	19.332	#
34)	Chlordane...	8.378	8.880	1099517	1464377	8.526	10.827	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.783f	8.417f	1909829	8805767	128.377	231.697	#
37)	Toxaphene...	8.115	8.783	1797221	1933629	54.563	41.015	
38)	Toxaphene...	8.414	8.813	626487	1648642	9.037	23.441	#
39)	Toxaphene...	8.662	8.896	611939	1362856	8.223	11.440	#
40)	Toxaphene...	8.868f	9.058	1048786	2361704	17.667	34.282	#
41)	Toxaphene...	8.968	9.437	1006654	2696476	14.952	36.010	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

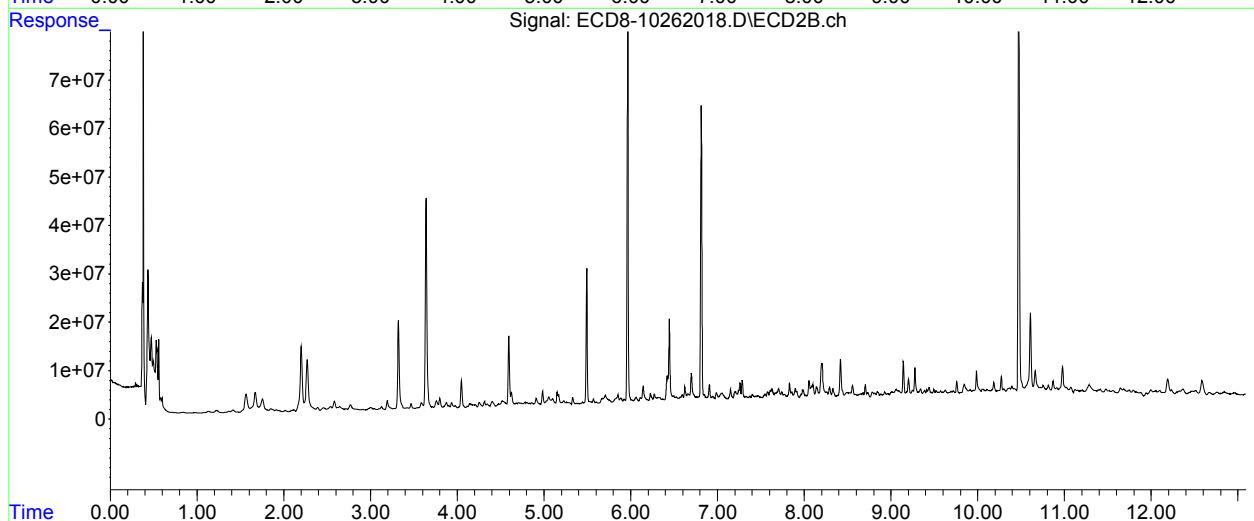
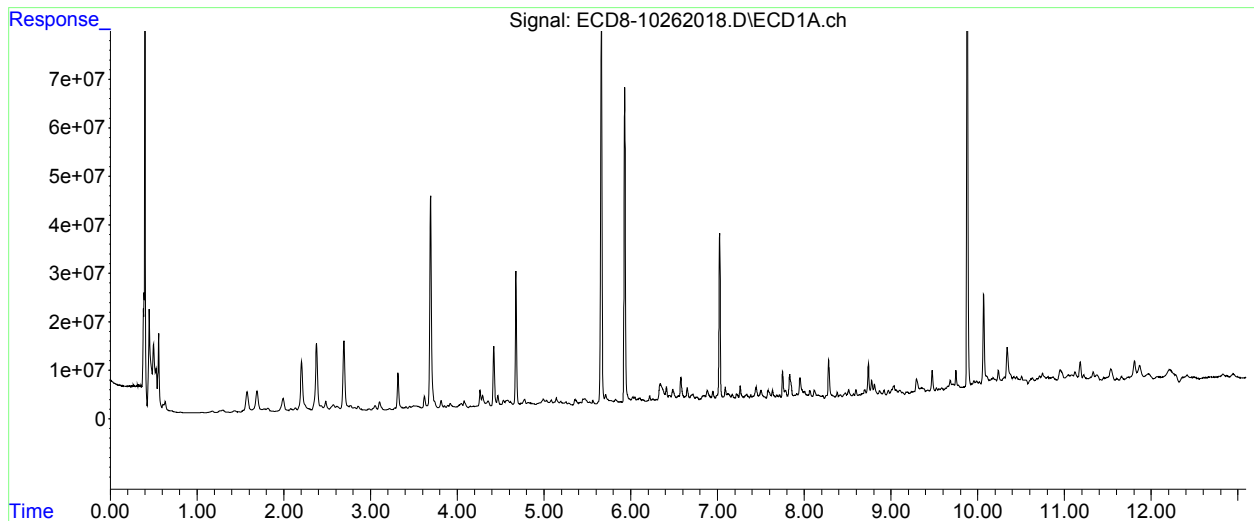
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:39  
Operator : MJB  
Sample : A0J0344-03RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:39:52 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

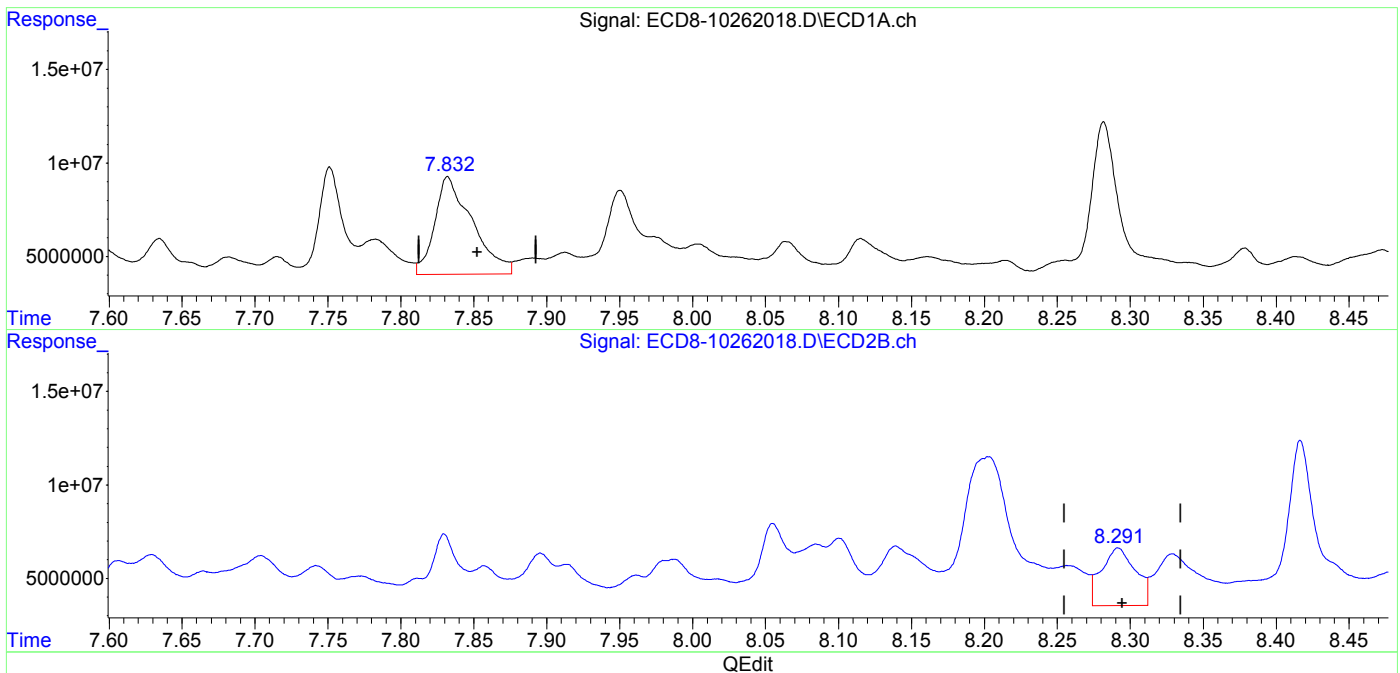


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:39  
Operator : MJB  
Sample : A0J0344-03RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:36:36 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.832min 1.664 ng/mL  
response 5244533  
  
(12) 4,4'-DDE #2  
8.292min 0.960 ng/mL  
response 3092457

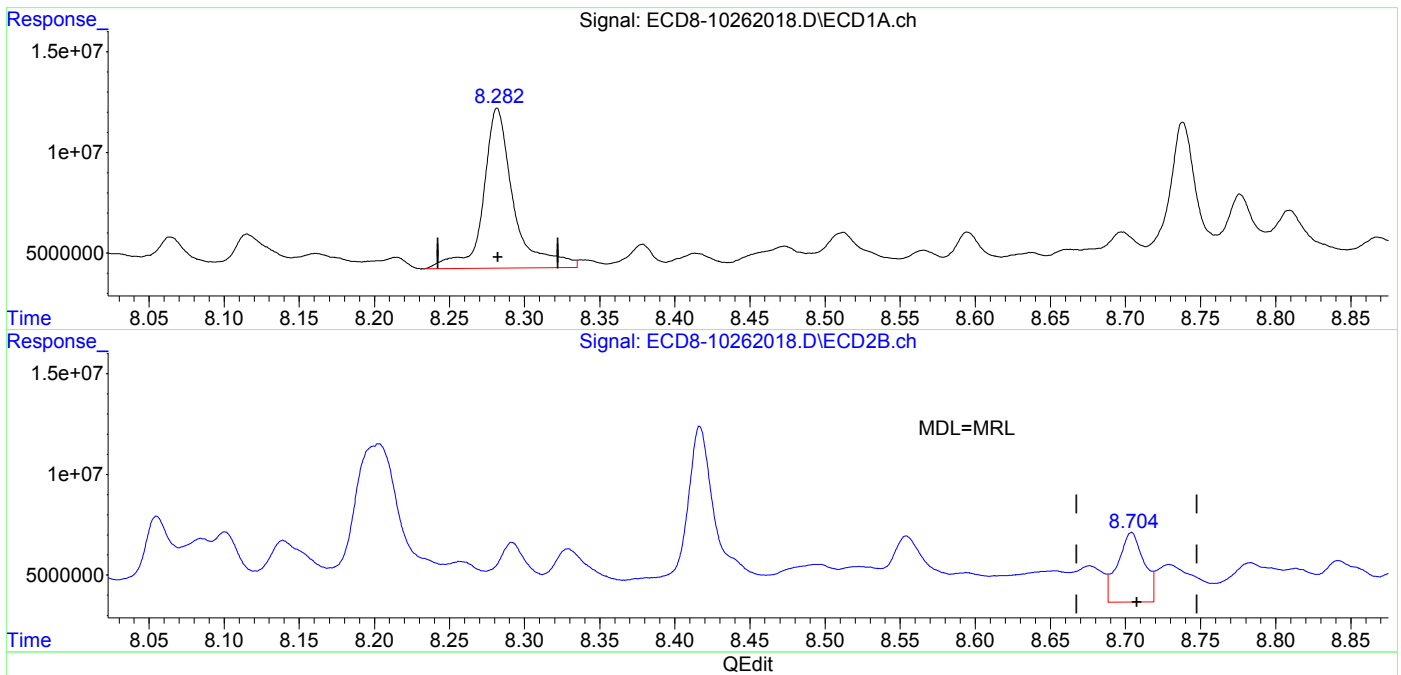


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:39  
Operator : MJB  
Sample : A0J0344-03RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:36:36 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



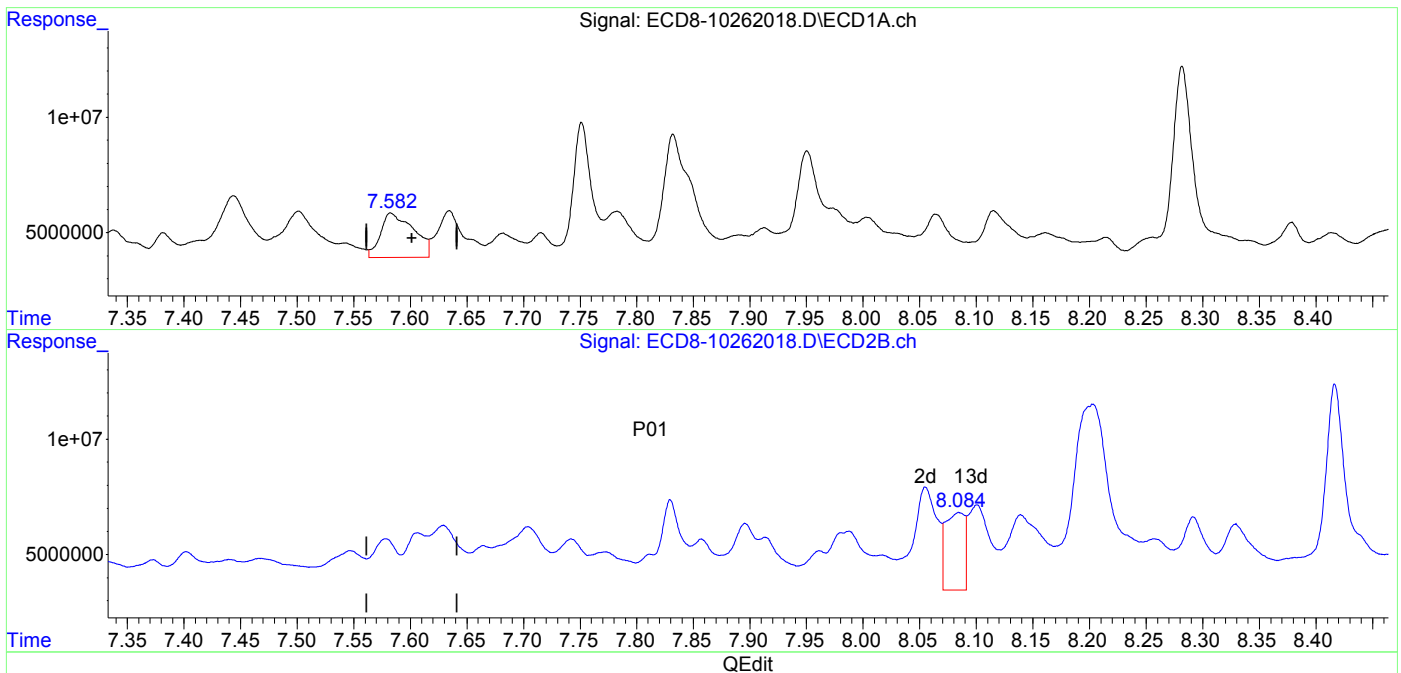
(15) 4,4'-DDD  
8.282min 2.922 ng/mL  
response 7947616  
  
(15) 4,4'-DDD #2  
8.704min 1.210 ng/mL  
response 3460819

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:39  
Operator : MJB  
Sample : A0J0344-03RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:36:36 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



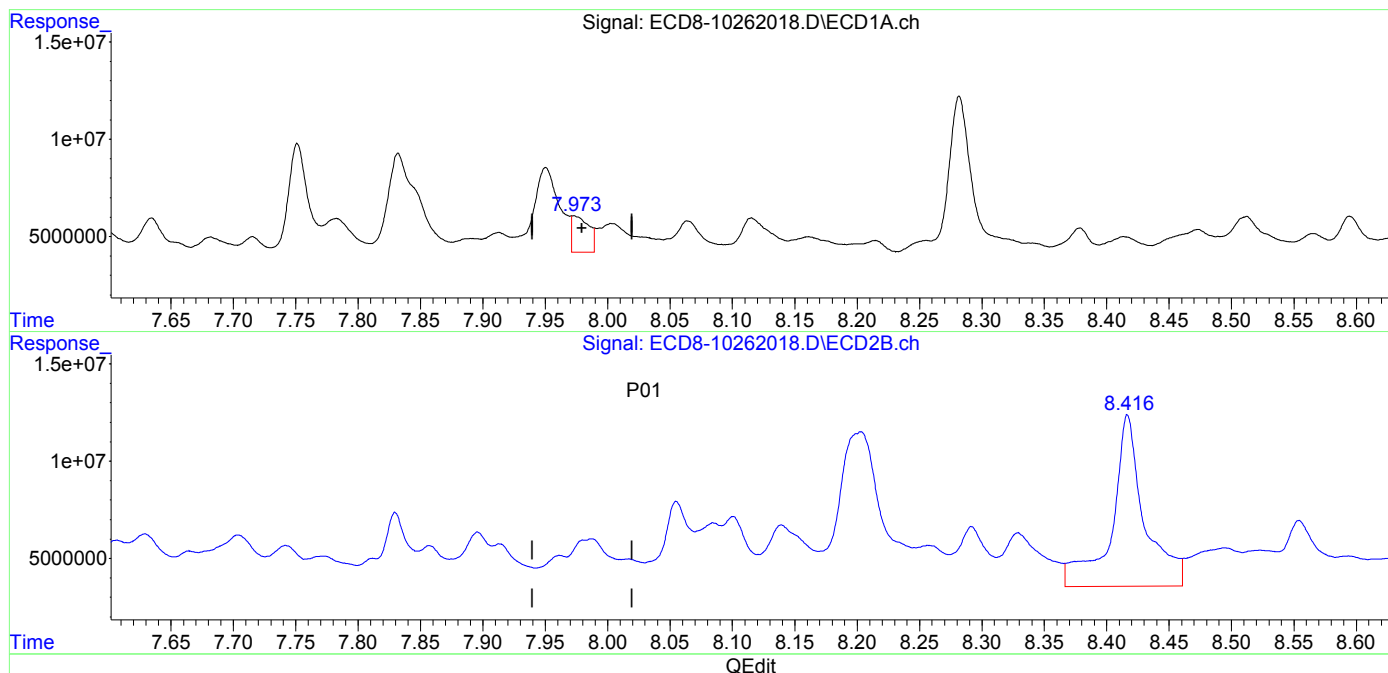
(26) 2,4'-DDE  
7.583min 0.910 ng/mL  
response 1934883  
  
(26) 2,4'-DDE #2  
8.085min 1.382 ng/mL  
response 3353124

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:39  
Operator : MJB  
Sample : A0J0344-03RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:36:36 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD  
7.973min 0.979 ng/mL m  
response 1881123  
  
(28) 2,4'-DDD #2  
8.417min 4.219 ng/mL  
response 8805767

*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262019.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:56  
 Operator : MJB  
 Sample : A0J0344-04RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:41:56 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1)	S TCMX (S)	5.661	5.965	122.5E6	125.2E6	34.626	31.284
22)	S DCBP (S)	9.881	10.475	134.8E6	129.2E6	53.781	53.403
Target Compounds							
2)	a-BHC	6.215	6.567	1707404	2466654	0.362	0.461 #
3)	g-BHC	6.481	6.875	3017783	2409397	0.750	0.518 #
4)	b-BHC	6.576	6.942	6332978	10271759	4.057	5.250 #
5)	Heptachlor	6.878f	7.257	4018248	5087549	0.990	1.112
6)	d-BHC	6.750	7.206	1386671	3340496	0.510	0.895 #
7)	Aldrin	7.160	7.500	3424940	2007573	0.872	0.470 #
8)	Heptachlo...	7.597	7.960	5033016	2327086	1.377	0.579 #
9)	trans-Chl...	7.714	8.083	1185918	6142381	0.322	1.543 #
10)	cis-Chlor...	7.831f	8.204	9178595	10217472	2.534	2.634
11)	Endosulfa...	7.912	8.260	2153857	5506198	0.633	1.531 #
12)	4,4'-DDE	7.831f	8.292	9178595	6433695	2.913	1.941 #MDL
13)	Dieldrin	8.064	8.416f	717568	43080611	0.191	11.106 #
14)	Endrin	8.215f	8.674	760022	2705909	0.277	1.071 #
15)	4,4'-DDD	8.281	8.704	43591496	11285414	16.028	3.921 #P11
16)	Endosulfa...	8.413	8.817	1527938	2607619	0.519	0.801 #
17)	4,4'-DDT	8.476	8.927	1455067	3077369	0.615	1.202 #P01
18)	Endrin Al...	8.700	9.046	3032539	3427116	0.768	0.903
19)	Endosulfa...	9.008	9.245	4818950	5573730	1.612	1.677
20)	Methoxychlor	8.808	9.388	1638786	3366083	1.190	2.341 #
21)	Endrin Ke...	9.192	9.626	1308364	3955367	0.354	1.013 #
23)	Hexachlor...	3.452	3.686	660899	1379368	BelowCal	0.190
24)	Hexachlor...	6.049	6.423	3338967	7669792	0.998	1.927 #
25)	Oxychlorane	7.544	7.895	1639315	5535758	0.508	1.573 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262019.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 16:56  
 Operator : MJB  
 Sample : A0J0344-04RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:41:56 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.597	8.083	5033016	6142381	2.366 <sup>R02</sup>	2.531	P01
27)	trans-Non...	7.751f	8.138	7810071	5503616	2.161	1.396	#
28)	2,4'-DDD	7.975	8.416f	2972338	43080611	1.547 <sup>MDL</sup>	20.893	#P01
29)	2,4'-DDT	8.155	8.674	826744	2705909	0.385	1.168	#P01
30)	cis-Nonac...	8.281	8.704	43591496	11285414	11.054	2.638	#
31)	Mirex	8.919f	9.626	3749864	3955367	1.296	1.331	
32)	Chlordane...	7.714	8.083f	1185918	6142381	2.879	12.609	#
33)	Chlordane...	7.831	8.204	9178595	10217472	21.898	24.680	
34)	Chlordane...	8.391	8.895f	1290536	2242898	10.008	16.583	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.831f	8.416f	9178595	43080611	616.975	1133.534	#
37)	Toxaphene...	8.114	8.781	2322525	4938054	70.511	104.743	#
38)	Toxaphene...	8.413	8.817	1527938	2607619	22.041	37.076	#
39)	Toxaphene...	8.662	8.895	1290183	2242898	17.336	18.827	
40)	Toxaphene...	8.878	9.079	3642480	3477243	61.359	50.475	
41)	Toxaphene...	8.971	9.429	1680838	7094593	24.966	94.744	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

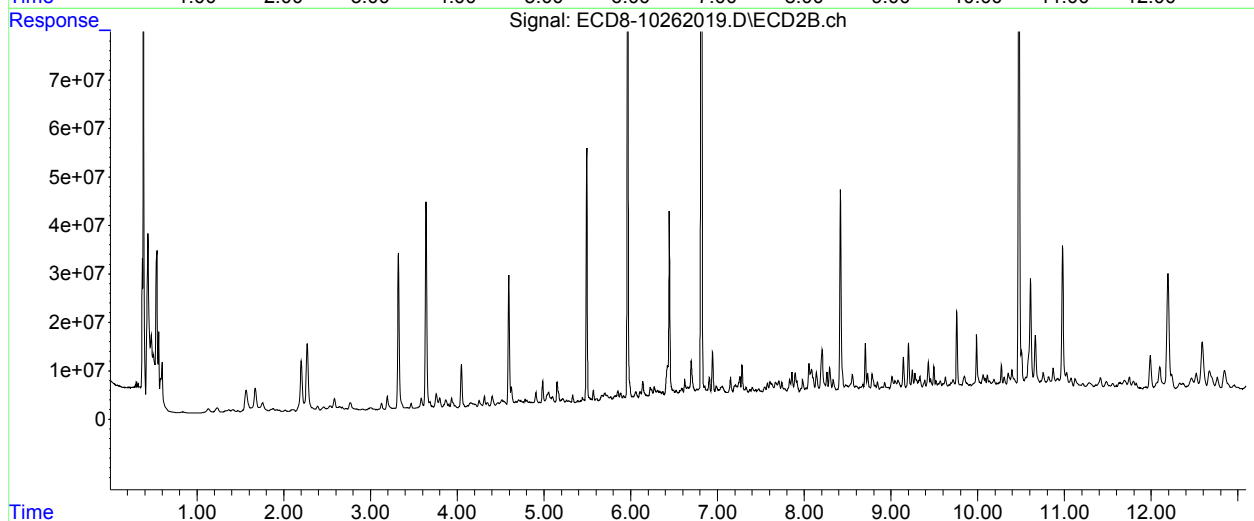
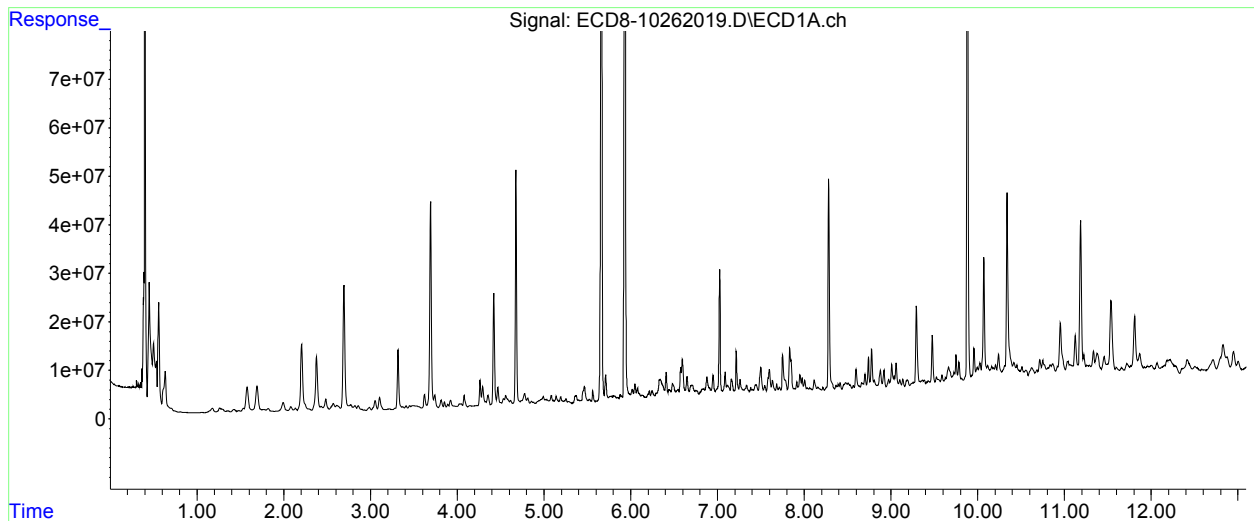
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

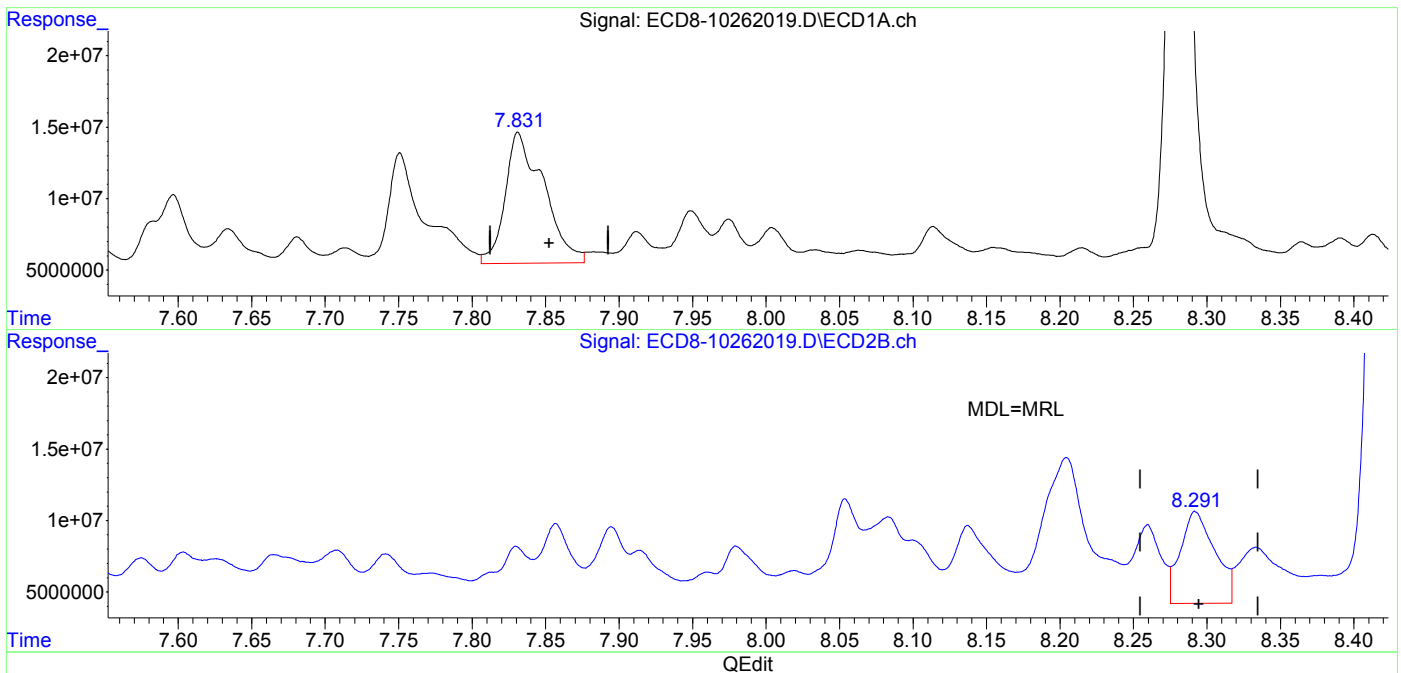


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.831min 2.913 ng/mL  
response 9178595

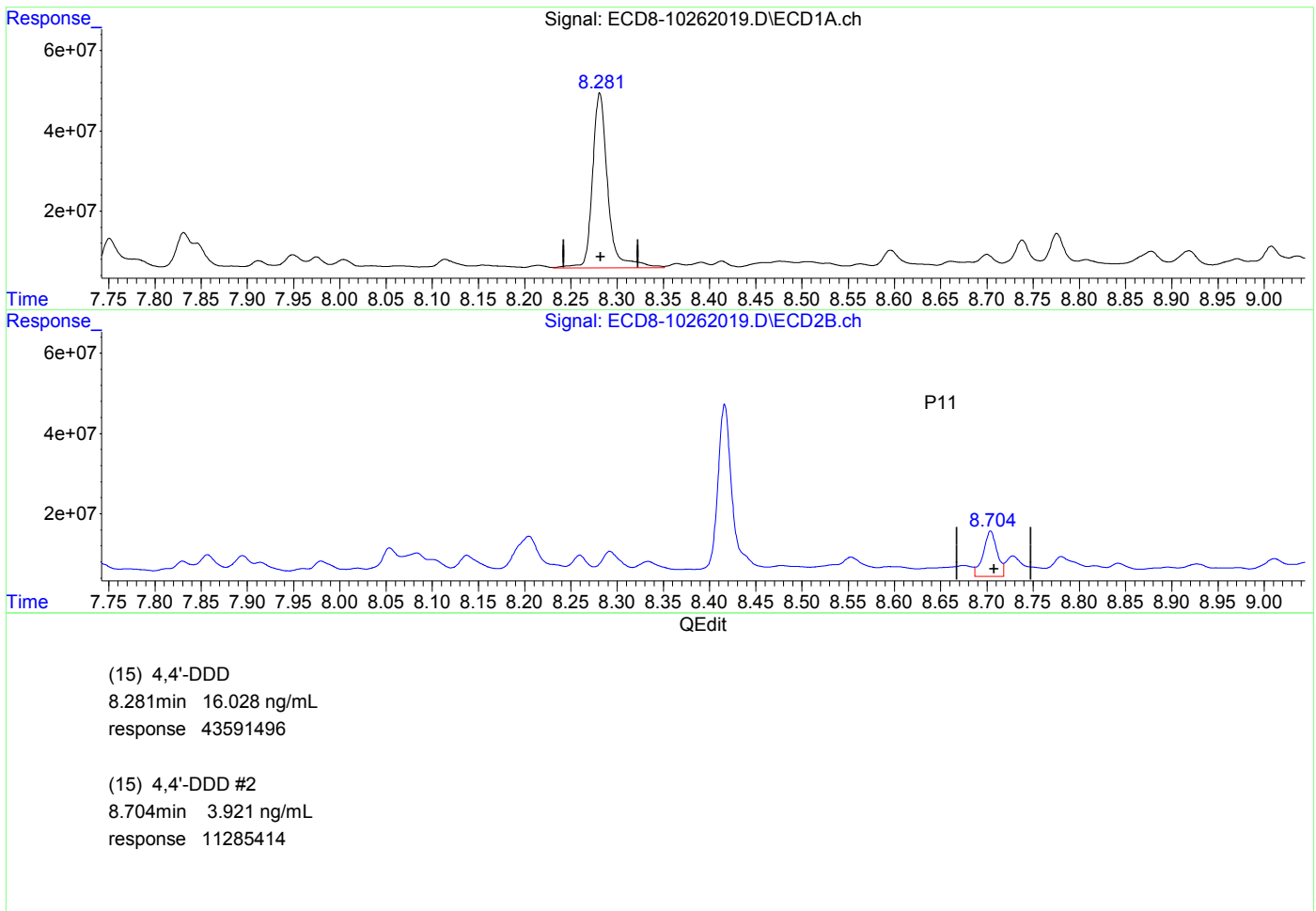
(12) 4,4'-DDE #2  
8.292min 1.941 ng/mL  
response 6433695

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(+) = Expected Retention Time  
ECD8\_QUANTPEST\_201015.M Tue Oct 27 17:43:44 2020

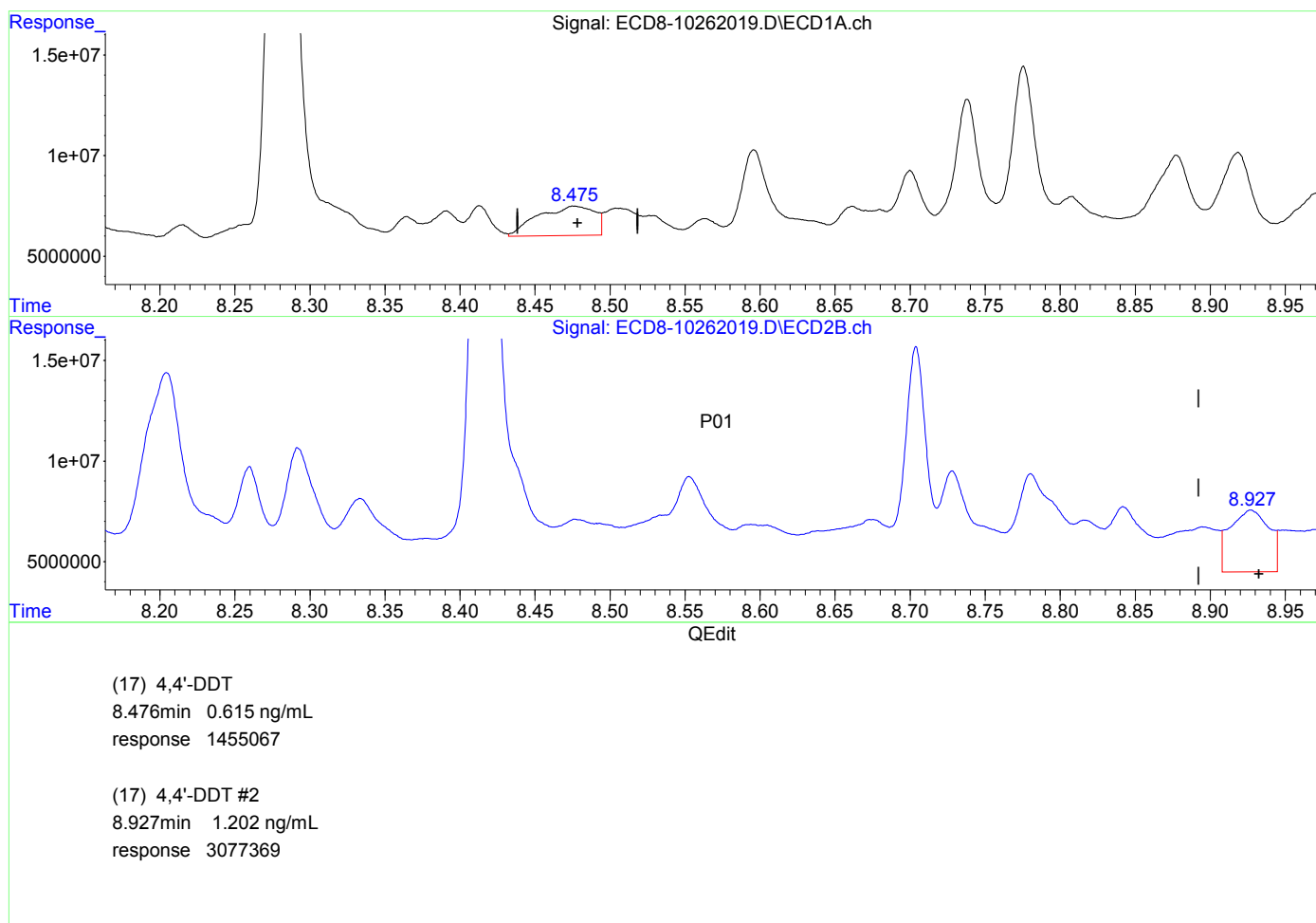


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



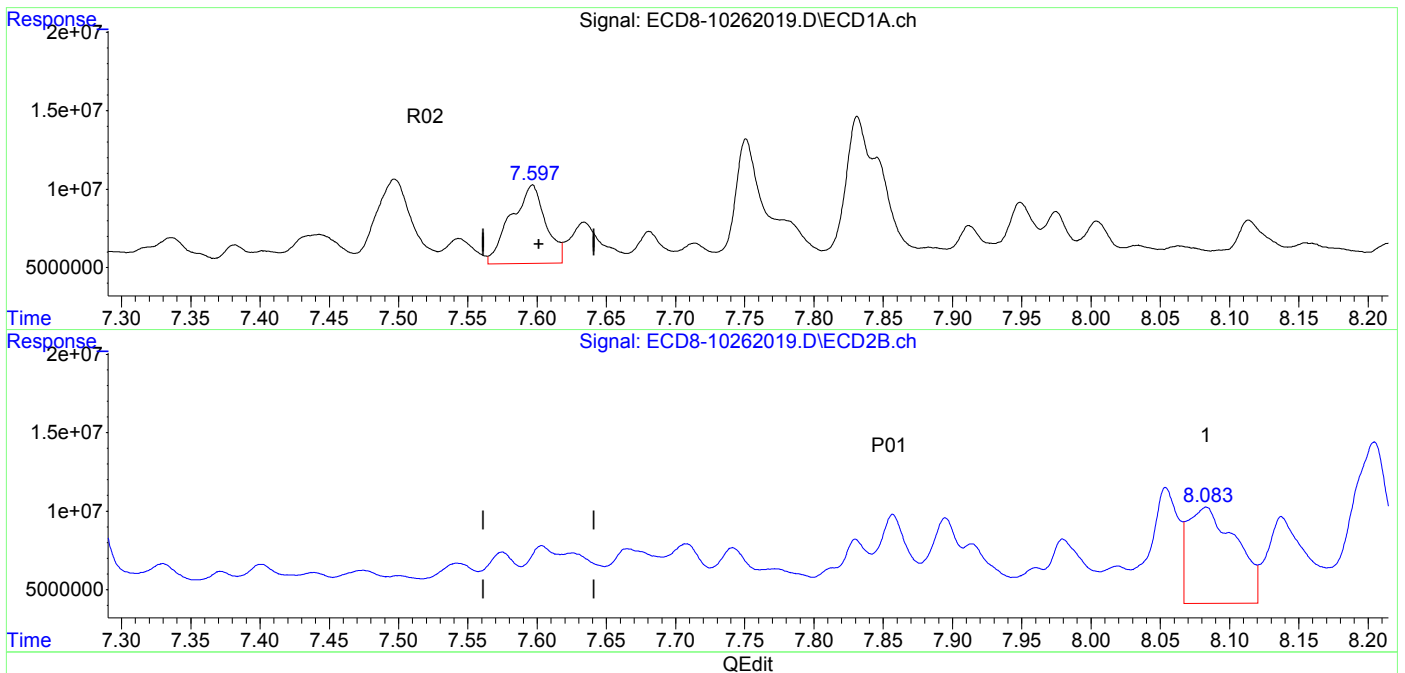
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE  
7.597min 2.366 ng/mL  
response 5033016

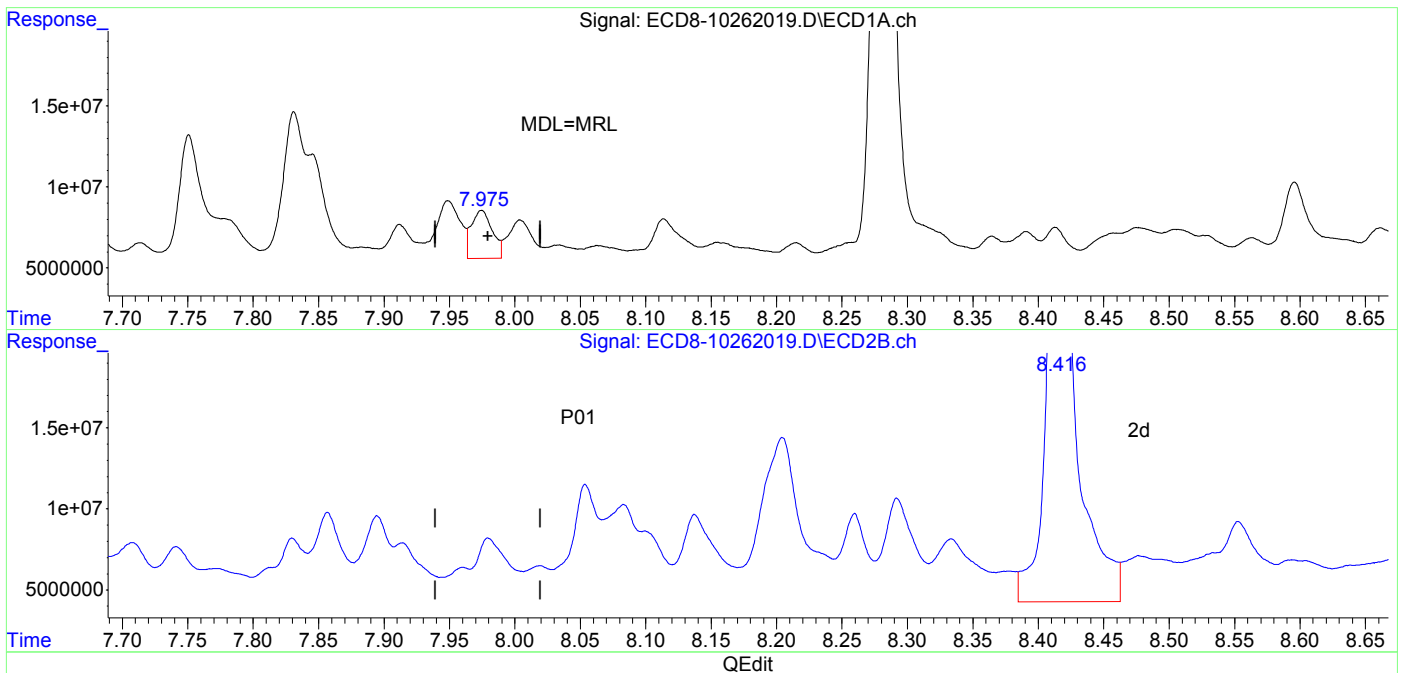
(26) 2,4'-DDE #2  
8.083min 2.531 ng/mL  
response 6142381

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



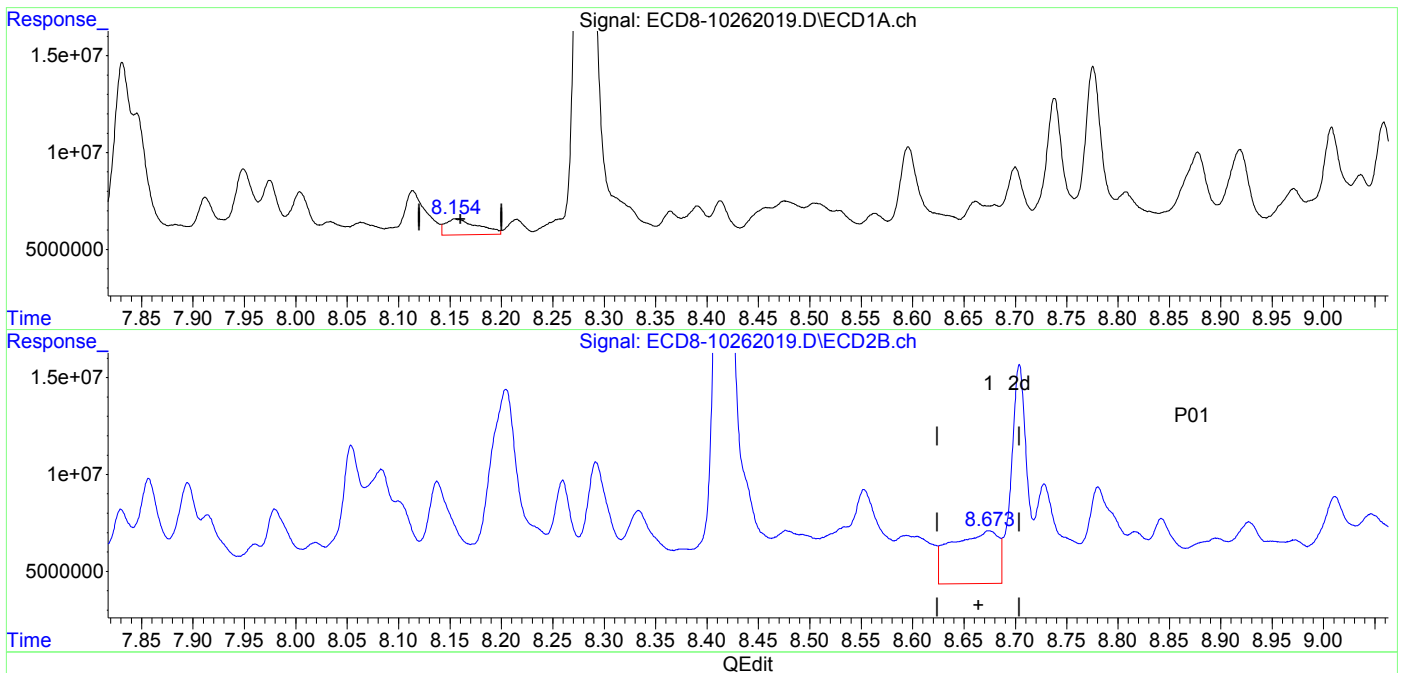
(28) 2,4'-DDD  
7.975min 1.547 ng/mL  
response 2972338  
  
(28) 2,4'-DDD #2  
8.416min 20.893 ng/mL  
response 43080611

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 16:56  
Operator : MJB  
Sample : A0J0344-04RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:41:56 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT  
8.155min 0.385 ng/mL  
response 826744  
  
(29) 2,4'-DDT #2  
8.674min 1.168 ng/mL  
response 2705909

*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262020.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 17:12  
 Operator : MJB  
 Sample : 0J26061-CCV4  
 Misc : A20H476, AB 100 ppb  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:49:24 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.663	5.966	355.8E6	432.2E6	100.607	108.016
22) S DCBP (S)	9.882	10.475	258.4E6	258.4E6	102.764	106.805
Target Compounds						
2) a-BHC	6.214	6.560	491.4E6	622.8E6	104.298	116.428
3) g-BHC	6.500	6.875	439.3E6	528.4E6	109.155	113.618
4) b-BHC	6.578	6.940	173.0E6	214.8E6	110.860	109.758
5) Heptachlor	6.897	7.247	404.5E6	476.9E6	99.661	104.205
6) d-BHC	6.731	7.188	395.9E6	521.8E6	107.797	107.249
7) Aldrin	7.139	7.510	426.7E6	484.3E6	108.620	113.429
8) Heptachlo...	7.609	7.944	379.3E6	442.7E6	103.757	110.247
9) trans-Chl...	7.702	8.084	391.0E6	457.5E6	106.182	114.951
10) cis-Chlor...	7.799	8.191	371.0E6	426.1E6	102.427	109.831
11) Endosulfa...	7.903	8.240	351.5E6	413.1E6	103.331	114.859
12) 4,4'-DDE	7.850	8.293	363.8E6	462.9E6	115.465	110.406
13) Dieldrin	8.077	8.439	400.0E6	453.5E6	106.464	102.987
14) Endrin	8.246	8.662	292.2E6	339.3E6	106.545	105.972
15) 4,4'-DDD	8.280	8.705	320.7E6	395.7E6	117.931	112.305
16) Endosulfa...	8.407	8.808	310.1E6	353.2E6	105.269	108.480
17) 4,4'-DDT	8.477	8.930	291.7E6	340.5E6	98.319	98.906
18) Endrin Al...	8.703	9.044	292.9E6	331.9E6	102.879	104.706
19) Endosulfa...	9.009	9.237	304.9E6	356.9E6	102.018	107.397
20) Methoxychlor	8.807	9.396	153.8E6	176.8E6	111.747	105.244
21) Endrin Ke...	9.211	9.628	398.5E6	466.2E6	107.770	119.347
23) Hexachlor...	3.452	3.680	55363	42271	BelowCal	BelowCal
24) Hexachlor...	6.050	6.432	690249	180913	0.206	0.045 #
25) Oxychlorane	7.542	7.866	1574707	440151	0.488	0.125 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262020.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 17:12  
 Operator : MJB  
 Sample : 0J26061-CCV4  
 Misc : A20H476, AB 100 ppb  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 27 17:49:24 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.609	8.084	379.3E6	457.5E6	178.350	188.545
27)	trans-Non...	7.799	8.149	371.0E6	1450534	102.681	0.368 #
28)	2,4'-DDD	7.971	8.439	615569	453.5E6	0.320	184.760 #
29)	2,4'-DDT	8.158	8.662	1022232	339.3E6	0.476	129.660 #
30)	cis-Nonac...	8.280	8.705	320.7E6	395.7E6	81.330	92.498
31)	Mirex	8.936	9.628	570897	466.2E6	BelowCal	175.482
32)	Chlordane...	7.702f	8.084f	391.0E6	457.5E6	949.220	939.213
33)	Chlordane...	7.799	8.240f	371.0E6	413.1E6	885.139	997.761
34)	Chlordane...	8.407f	8.881	310.1E6	1617191	2404.405	11.957 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.799	8.439	371.0E6	453.5E6	24939.199	11932.171
#							
37)	Toxaphene...	8.077f	8.808	400.0E6	353.2E6	12142.745	7492.100 #
38)	Toxaphene...	8.407	8.808	310.1E6	353.2E6	4472.709	5021.997
39)	Toxaphene...	8.626f	8.881	2914162	1617191	39.158	13.575 #
40)	Toxaphene...	8.881	9.044f	869822	331.9E6	14.653	4818.333 #
41)	Toxaphene...	8.962	9.481f	796419	1659816	11.829	22.166 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

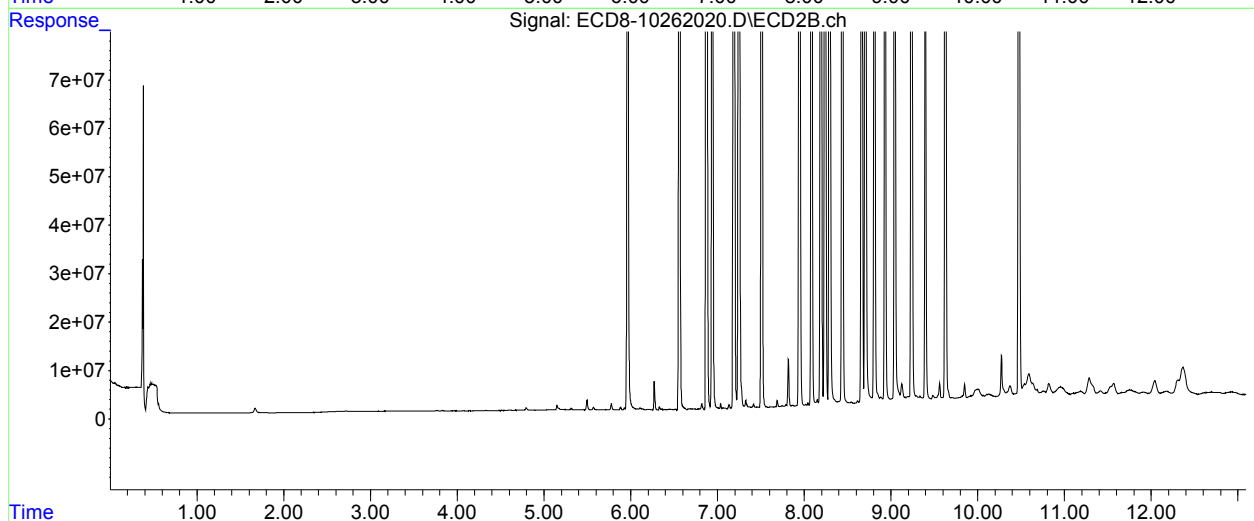
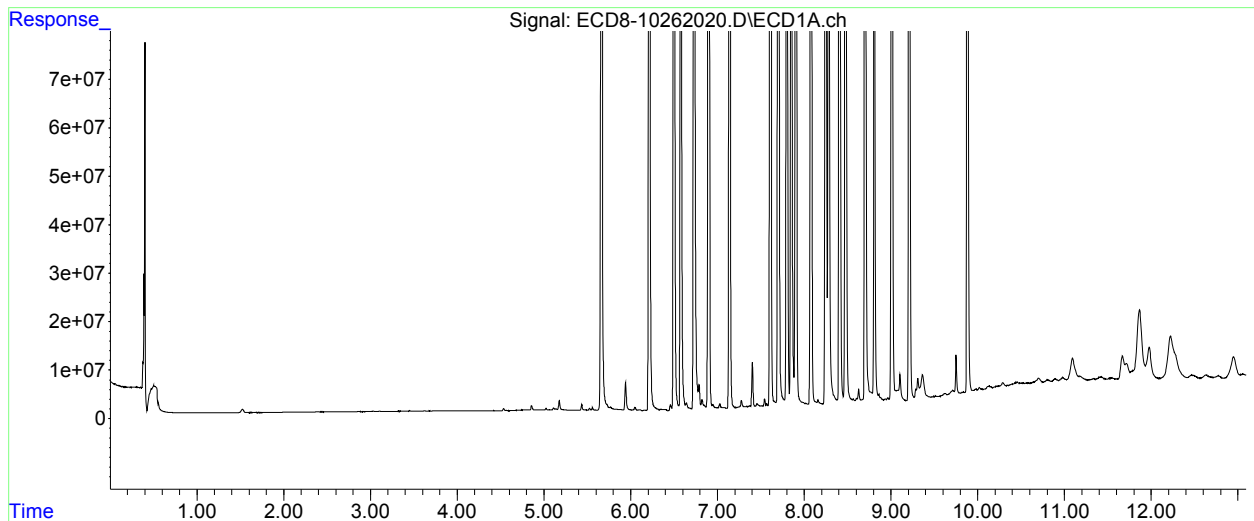
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262020.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 17:12  
Operator : MJB  
Sample : 0J26061-CCV4  
Misc : A20H476, AB 100 ppb  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 27 17:49:24 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262021.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 17:29  
 Operator : MJB  
 Sample : 0J26061-CCV5  
 Misc : A20I186, 9-42 100 ppb  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:36:42 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.633f	5.968	2392131	20504	0.676	0.005 #
22) S DCBP (S)	9.893	10.438f	755144	704886	0.043	0.291 #
Target Compounds						
2) a-BHC	6.242f	6.557	305041	267865	0.065	0.050
3) g-BHC	6.493	6.874	129568	28973	0.032	0.006 #
4) b-BHC	6.591	6.946	109012	83194	0.070	0.043 #
5) Heptachlor	6.899	7.247	754095	837574	0.186	0.183
6) d-BHC	6.739	7.190	102447	74125	0.091	0.085
7) Aldrin	7.142	7.508	15510	40259	0.004	0.009 #
8) Heptachlo...	7.599	7.981f	218.0E6	1088576	59.640	0.271 #
9) trans-Chl...	7.700	8.070	1007002	261.6E6	0.273	65.718 #
10) cis-Chlor...	7.786	8.184	356.3E6	3061793	98.355	0.789 #
11) Endosulfa...	7.895	8.267f	460269	446879	0.135	0.124
12) 4,4'-DDE	7.882f	8.299	514493	346908	0.163	0.150
13) Dieldrin	8.090	8.441	657836	240.3E6	0.175	57.922 #
14) Endrin	8.264	8.663	379.6E6	247.7E6	138.439	81.038 #
15) 4,4'-DDD	8.264	8.709	379.6E6	451.8E6	139.593	125.439
16) Endosulfa...	8.417	8.809	523544	364693	0.178	0.112 #
17) 4,4'-DDT	8.477	8.924	317833	546793	0.160	0.266 #
18) Endrin Al...	8.705	9.050	99062	661413	BelowCal	BelowCal
19) Endosulfa...	8.983f	9.237	1234120	399922	0.413	0.120 #
20) Methoxychlor	0.000	9.401	0	347220	N.D.	0.197 #
21) Endrin Ke...	9.212	9.617	128238	264.3E6	0.035	67.654 #
23) Hexachlor...	3.453	3.678	359.3E6	445.0E6	106.973	105.591
24) Hexachlor...	6.050	6.429	322.0E6	407.2E6	96.252	102.305
25) Oxychlorane	7.532	7.875	305.6E6	366.0E6	94.613	103.992



Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262021.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 17:29  
 Operator : MJB  
 Sample : 0J26061-CCV5  
 Misc : A20I186, 9-42 100 ppb  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:36:42 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.599	8.070	218.0E6	261.6E6	102.517	107.792
27)	trans-Non...	7.786	8.150	356.3E6	411.0E6	98.600	104.242
28)	2,4'-DDD	7.978	8.441	199.6E6	240.3E6	103.870	106.282
29)	2,4'-DDT	8.159	8.663	214.5E6	247.7E6	99.962	99.595
30)	cis-Nonac...	8.264	8.709	379.6E6	451.8E6	96.269	105.603
31)	Mirex	8.939	9.617	239.7E6	264.3E6	101.604	104.027
32)	Chlordane...	7.700f	8.070f	1007002	261.6E6	2.444	536.953 #
33)	Chlordane...	7.786f	8.184f	356.3E6	3061793	849.955	7.396 #
34)	Chlordane...	8.378	8.876	551182	434920	4.274	3.216
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.786	8.441	356.3E6	240.3E6	23947.887	6322.075 #
37)	Toxaphene...	8.090	8.809	657836	364693	19.972	7.736 #
38)	Toxaphene...	8.417	8.809	523544	364693	7.552	5.185 #
39)	Toxaphene...	8.655	8.894	61515	506002	0.827	4.247 #
40)	Toxaphene...	8.889	9.074	356228	377699	6.001	5.483
41)	Toxaphene...	8.983f	9.435	1234120	361976	18.331	4.834 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

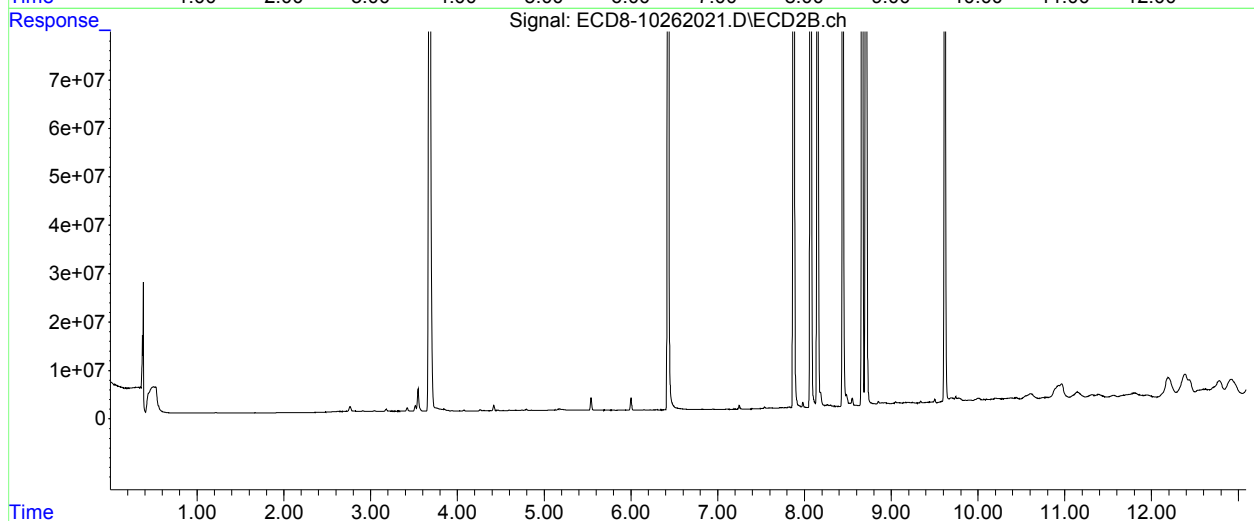
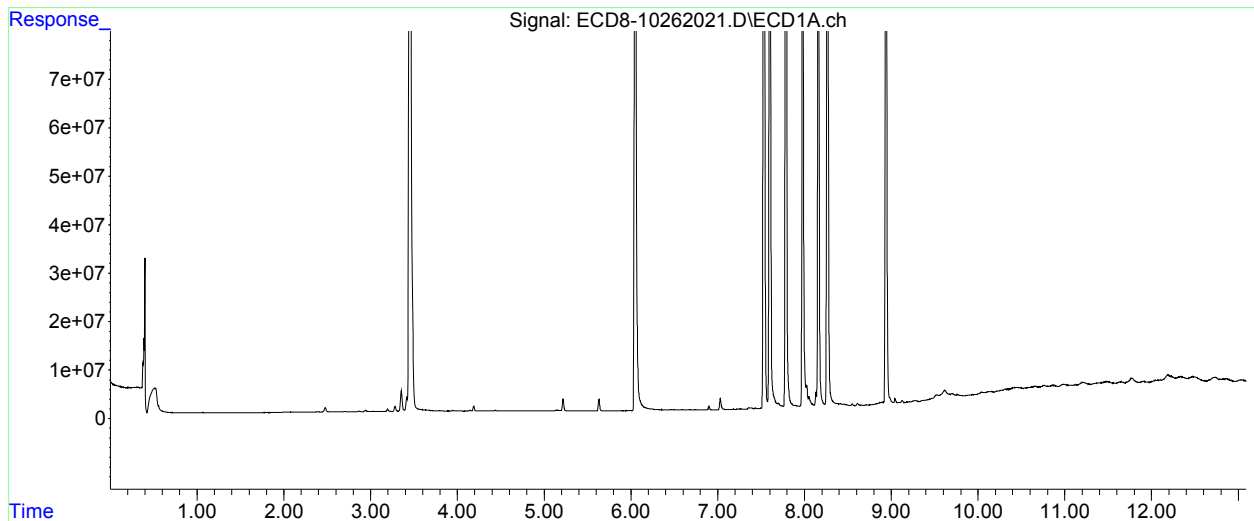
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262021.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 17:29  
Operator : MJB  
Sample : 0J26061-CCV5  
Misc : A20I186, 9-42 100 ppb  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:36:42 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



*AML 10/27/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262022.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 17:45  
 Operator : MJB  
 Sample : 0J26061-CCB2  
 Misc : A20J148  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:47:03 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.663	5.965	321.2E6	389.0E6	90.816	97.219
22) S DCBP (S)	9.883	10.475	237.2E6	230.6E6	94.423	95.335
Target Compounds						
2) a-BHC	6.192f	6.580	42132	237375	0.009	0.044 #
3) g-BHC	6.490	6.876	67119	377265	0.017	0.081 #
4) b-BHC	6.587	6.943	9108	447661	0.006	0.229 #
5) Heptachlor	6.901	0.000	36400	0	0.009	N.D. #
6) d-BHC	6.734	7.190	30593	324047	0.068	0.147 #
7) Aldrin	7.103f	7.507	82975	8993	0.021	0.002 #
8) Heptachlo...	7.601	7.946	12633	111520	0.003	0.028 #
9) trans-Chlor...	7.690	8.080	99619	195283	0.027	0.049 #
10) cis-Chlor...	7.802	8.191	11918	77646	0.003	0.020 #
11) Endosulfa...	7.908	8.240	18696	78787	0.005	0.022 #
12) 4,4'-DDE	7.858	8.296	25323	95755	0.008	0.076 #
13) Dieldrin	8.085	8.437	9003	66572	0.002	0.034 #
14) Endrin	8.227f	8.650	4215	91706	0.002	0.062 #
15) 4,4'-DDD	0.000	8.711	0	299689	N.D.	0.107 #
16) Endosulfa...	8.397	8.812	445504	472294	0.151	0.145
17) 4,4'-DDT	8.461	8.908f	927181	443404	0.404	0.228 #
18) Endrin Al...	8.707	9.053	93556	1503355	BelowCal	0.243
19) Endosulfa...	9.007	9.225	126855	2020228	0.042	0.608 #
20) Methoxychlor	0.000	9.415	0	414738	N.D.	0.245 #
21) Endrin Ke...	9.216	9.632	93130	715525	0.025	0.183 #
23) Hexachlor...	3.455	3.693	31172	50811	BelowCal	BelowCal
24) Hexachlor...	6.050	6.427	610897	247749	0.183	0.062 #
25) Oxychlorane	7.529	7.870	12803	133976	0.004	0.038 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262022.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 17:45  
 Operator : MJB  
 Sample : 0J26061-CCB2  
 Misc : A20J148  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:47:03 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.601	8.072	12633	198333	0.006	0.082 #
27)	trans-Non...	7.802	8.179f	11918	79642	0.003	0.020 #
28)	2,4'-DDD	7.979	8.444	27023	67495	0.014	BelowCal #
29)	2,4'-DDT	8.177	8.650	7232	91706	0.003	BelowCal #
30)	cis-Nonac...	8.227f	8.711	4215	299689	0.001	0.070 #
31)	Mirex	8.938	9.620	217915	702937	BelowCal	BelowCal
32)	Chlordane...	7.718	8.107	18123	193370	0.044	0.397 #
33)	Chlordane...	7.820	8.217	10499	68220	0.025	0.165 #
34)	Chlordane...	8.397	8.884	445504	461454	3.455	3.412
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.802	8.444	11918	67495	0.801	1.776 #
37)	Toxaphene...	8.090	8.779	6968	360845	0.212	7.654 #
38)	Toxaphene...	8.397f	8.826	445504	485695	6.426	6.906
39)	Toxaphene...	8.655	8.892	289855	445239	3.895	3.737
40)	Toxaphene...	8.888	9.071	169601	1499593	2.857	21.768 #
41)	Toxaphene...	8.953	9.442	211574	407144	3.143	5.437 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

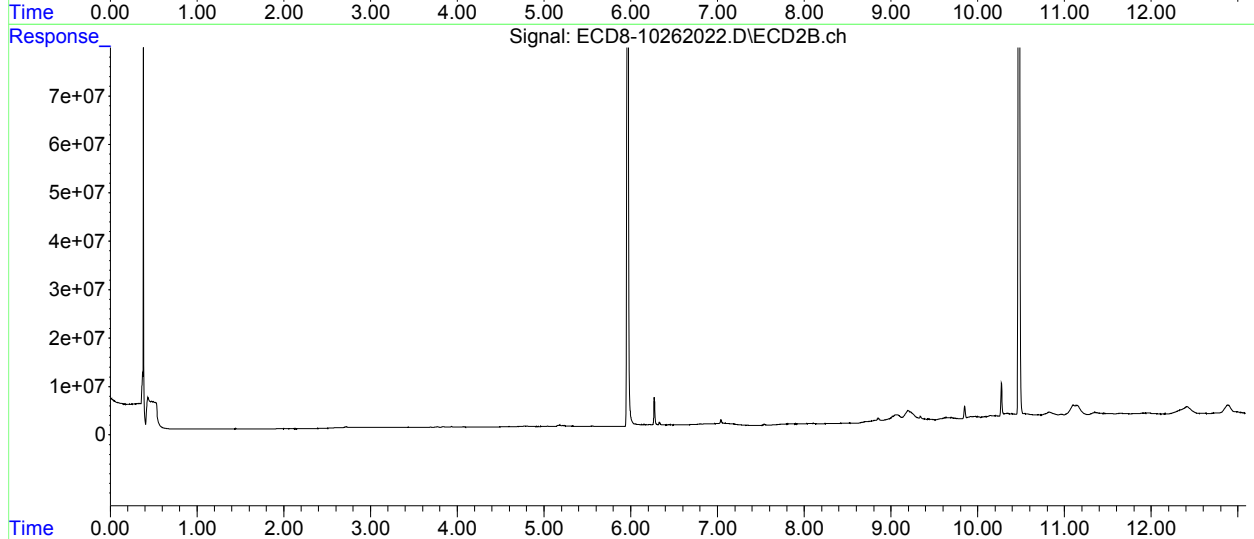
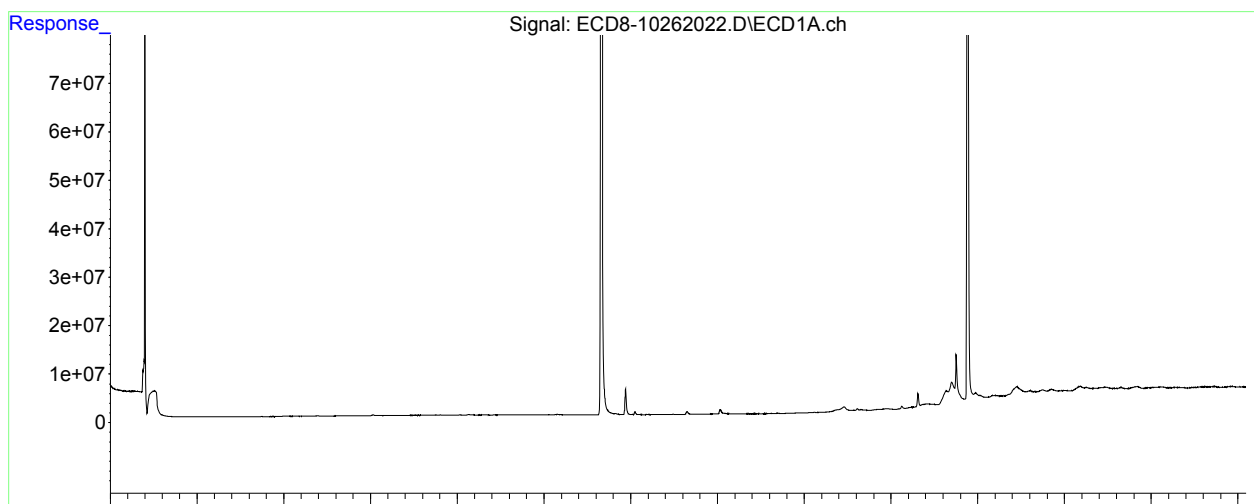
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262022.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 17:45  
Operator : MJB  
Sample : 0J26061-CCB2  
Misc : A20J148  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:03 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



*AML 10/28/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262023.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 18:02  
 Operator : MJB  
 Sample : A0J0344-05RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:51:51 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1)	S TCMX (S)	5.661	5.965	100.6E6	105.2E6	28.441	26.290
22)	S DCBP (S)	9.881	10.476	123.1E6	121.0E6	49.128	50.024
Target Compounds							
2)	a-BHC	6.217	6.567	2883351	4488845	0.612	0.839 #
3)	g-BHC	6.482	6.904f	3294087	7467416	0.818	1.606 #
4)	b-BHC	6.576	6.942	8051170	5813333	5.158	2.971 #
5)	Heptachlor	6.880	7.257	3113094	8786340	0.767	1.920 #
6)	d-BHC	6.754	7.194	1497466	5795651	0.546	1.501 #
7)	Aldrin	7.166f	7.501	2796728	4965176	0.712	1.163 #
8)	Heptachlo...	7.596	7.960	4308336	5192615	1.178	1.293
9)	trans-Chl...	7.714	8.084	1186610	7664688	0.322	1.926 #
10)	cis-Chlor...	7.779f	8.205	2324899	11568780	0.642	2.982 #
11)	Endosulfa...	7.912	8.259	1337399	7905209	0.393	2.198 #
12)	4,4'-DDE	7.840	8.291	5206283	7696508	1.652mMDL	2.311 #P01
13)	Dieldrin	8.066	8.417f	712571	28530234	0.190	7.400 #
14)	Endrin	8.254	8.657	732283	5490925	0.267	2.142 #
15)	4,4'-DDD	8.282	8.703	24508908	7067023	9.012	2.463m#P02
16)	Endosulfa...	8.413	8.814	813723	6628840	0.276	2.036 #
17)	4,4'-DDT	8.474	8.928	2243872	7230616	0.931	2.728 #P01
18)	Endrin Al...	8.701	9.050	1646416	5797820	0.280	1.716 #
19)	Endosulfa...	8.990	9.245	807773	6504114	0.270	1.957 #
20)	Methoxychlor	8.776f	9.388	9259184	6493031	6.726	4.544 #
21)	Endrin Ke...	9.193	9.628	956793	6384432	0.259	1.634 #
23)	Hexachlor...	3.453	3.712f	638747	1617581	BelowCal	0.255
24)	Hexachlor...	6.049	6.422	2877386	9000776	0.860	2.261 #
25)	Oxychlorane	7.545	7.895	1141932	7465632	0.354	2.121 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262023.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 18:02  
 Operator : MJB  
 Sample : A0J0344-05RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:51:51 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.596	8.084	4308336	7664688	2.026 <sup>R02</sup>	3.159	#P01
27)	trans-Non...	7.779	8.152	2324899	9218702	0.643	2.338	#
28)	2,4'-DDD	7.972	8.417f	1782495	28530234	0.928	13.896	#P01
29)	2,4'-DDT	8.158	8.657	835793	5490925	0.389	2.516	#P01
30)	cis-Nonac...	8.254	8.704	732283	9465190	0.186	2.213	#
31)	Mirex	8.920	9.628	3171626	6384432	1.049	2.358	#
32)	Chlordane...	7.714	8.101	1186610	7296220	2.880	14.978	#
33)	Chlordane...	7.832	8.205	7059713	11568780	16.843	27.944	#
34)	Chlordane...	8.380	8.879	1081296	5831879	8.385	43.119	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.779f	8.417f	2324899	28530234	156.277	750.686	#
37)	Toxaphene...	8.114	8.782	2028713	7590659	61.591	161.009	#
38)	Toxaphene...	8.413	8.814	813723	6628840	11.738	94.250	#
39)	Toxaphene...	8.660	8.897	1062242	5497853	14.274	46.149	#
40)	Toxaphene...	8.871f	9.079	1716816	6118568	28.921	88.816	#
41)	Toxaphene...	8.968	9.436	1832457	8063055	27.218	107.677	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

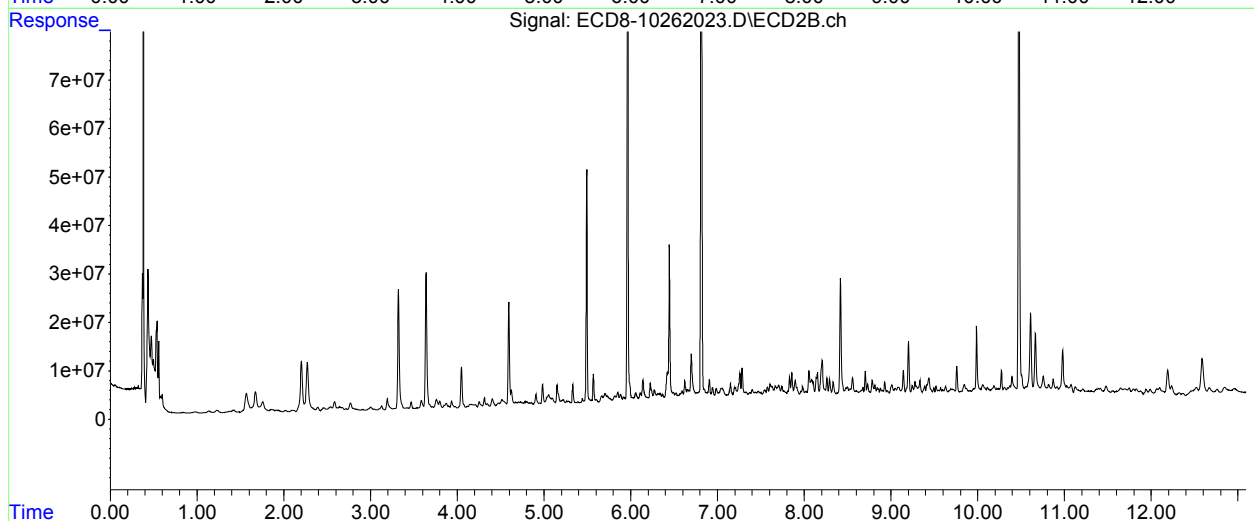
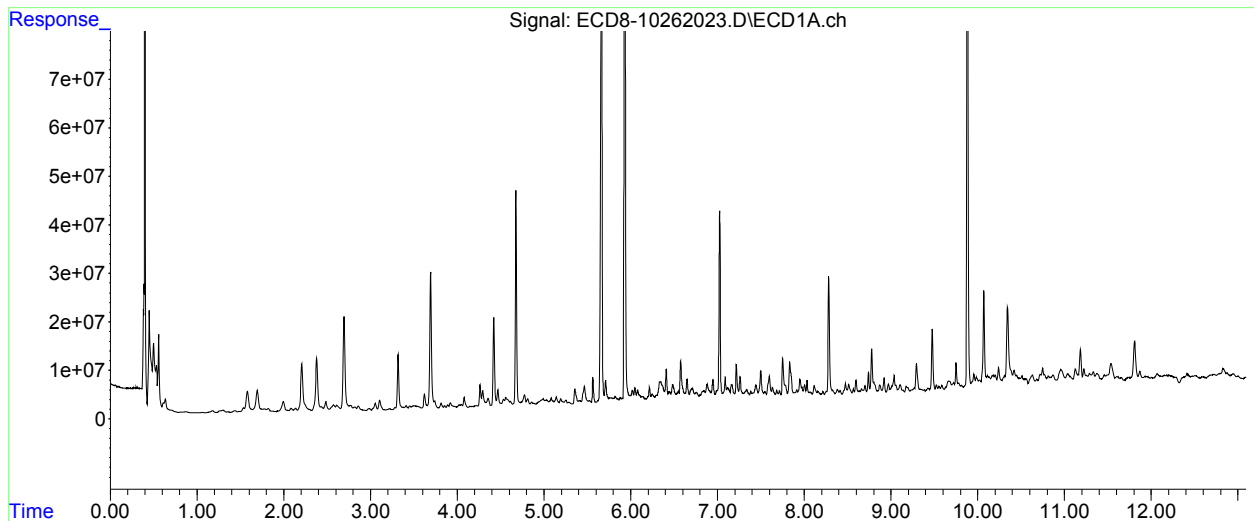
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:51:51 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



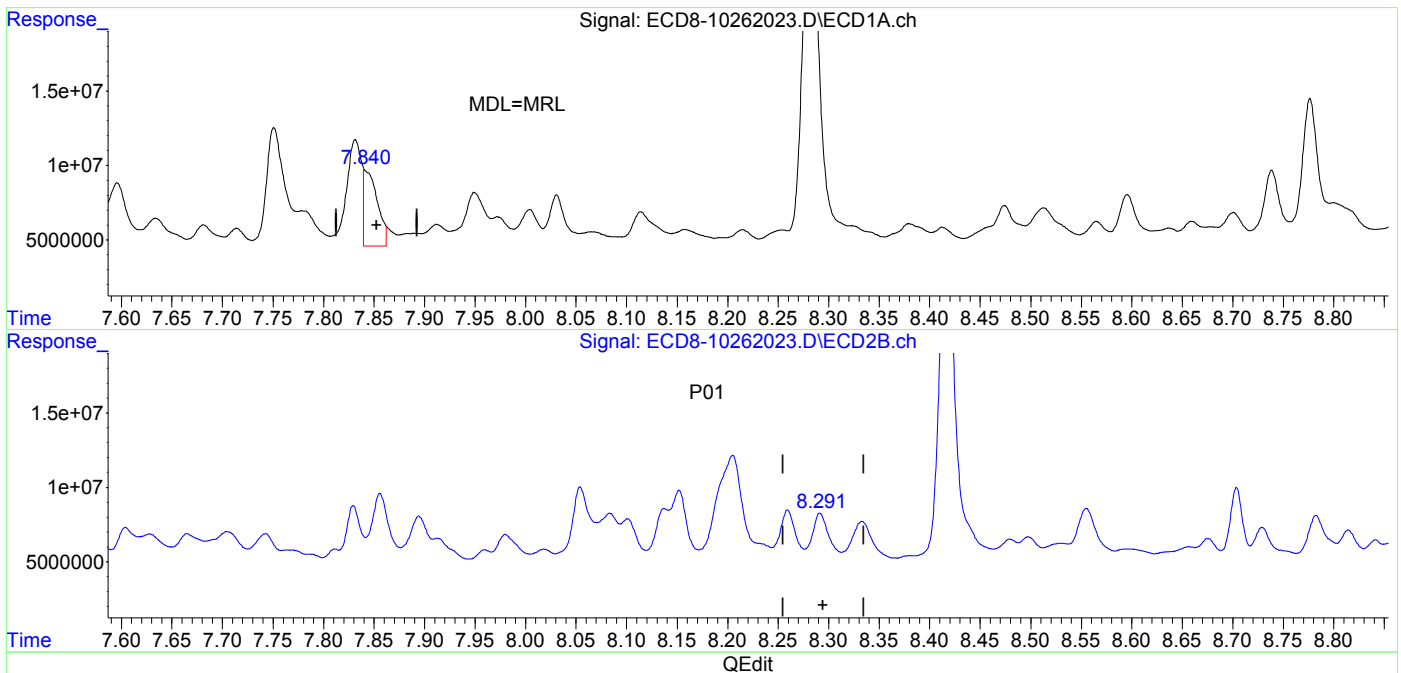


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.840min 1.652 ng/mL m  
response 5206283

(12) 4,4'-DDE #2  
8.291min 2.311 ng/mL  
response 7696508

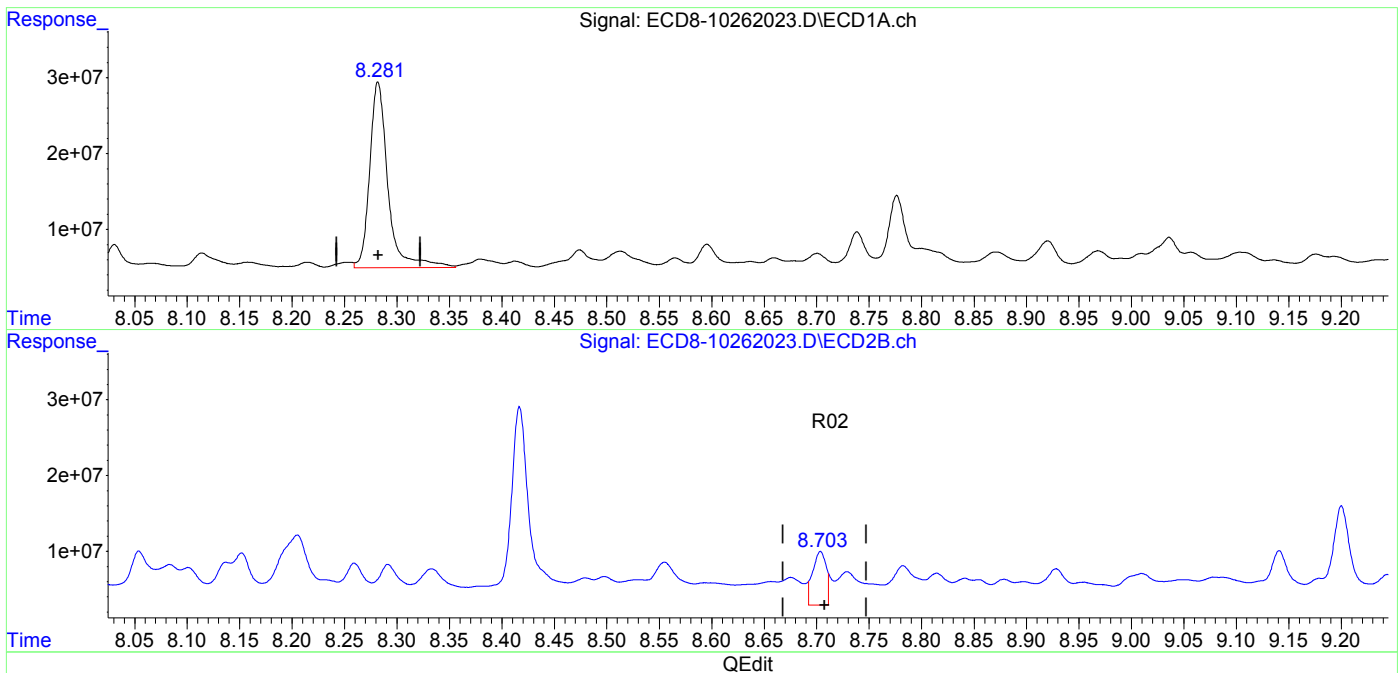
(+) = Expected Retention Time  
ECD8\_QUANTPEST\_201015.M Wed Oct 28 09:50:24 2020

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD  
8.282min 9.012 ng/mL  
response 24508908

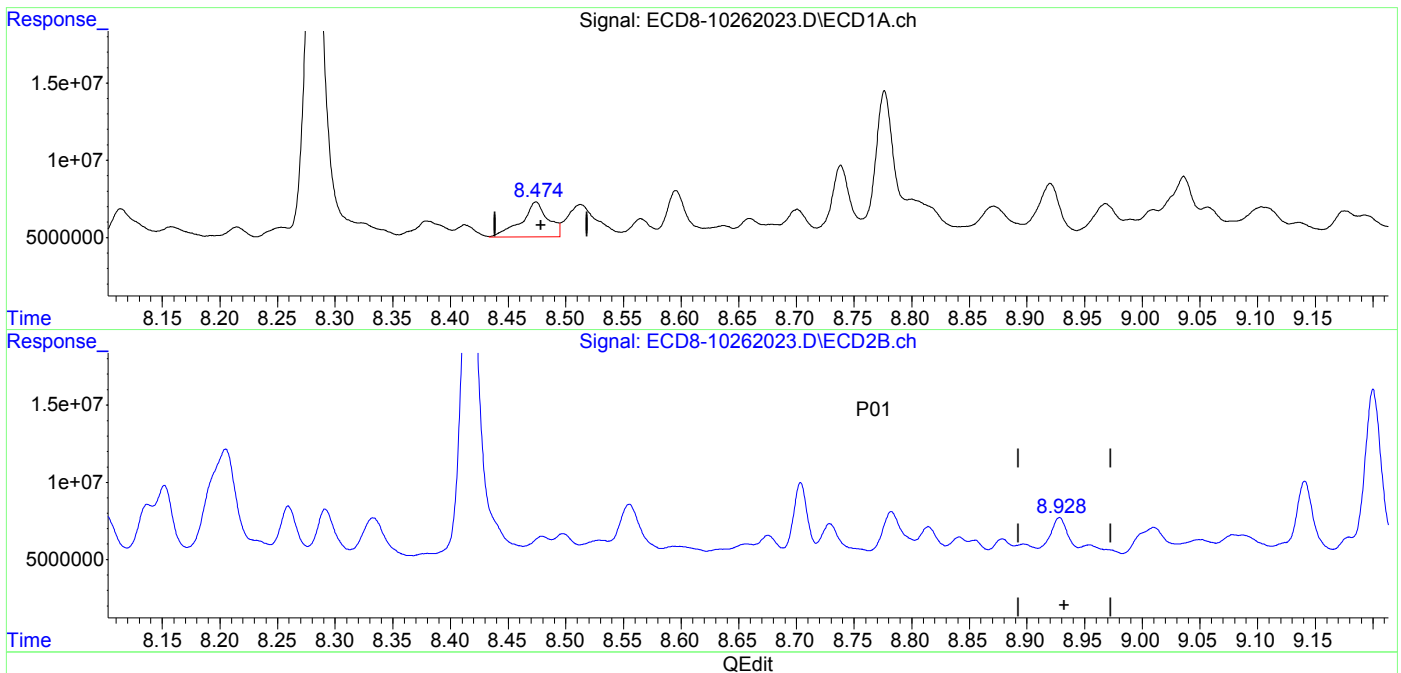
(15) 4,4'-DDD #2  
8.703min 2.463 ng/mL m  
response 7067023

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT  
8.474min 0.931 ng/mL  
response 2243872

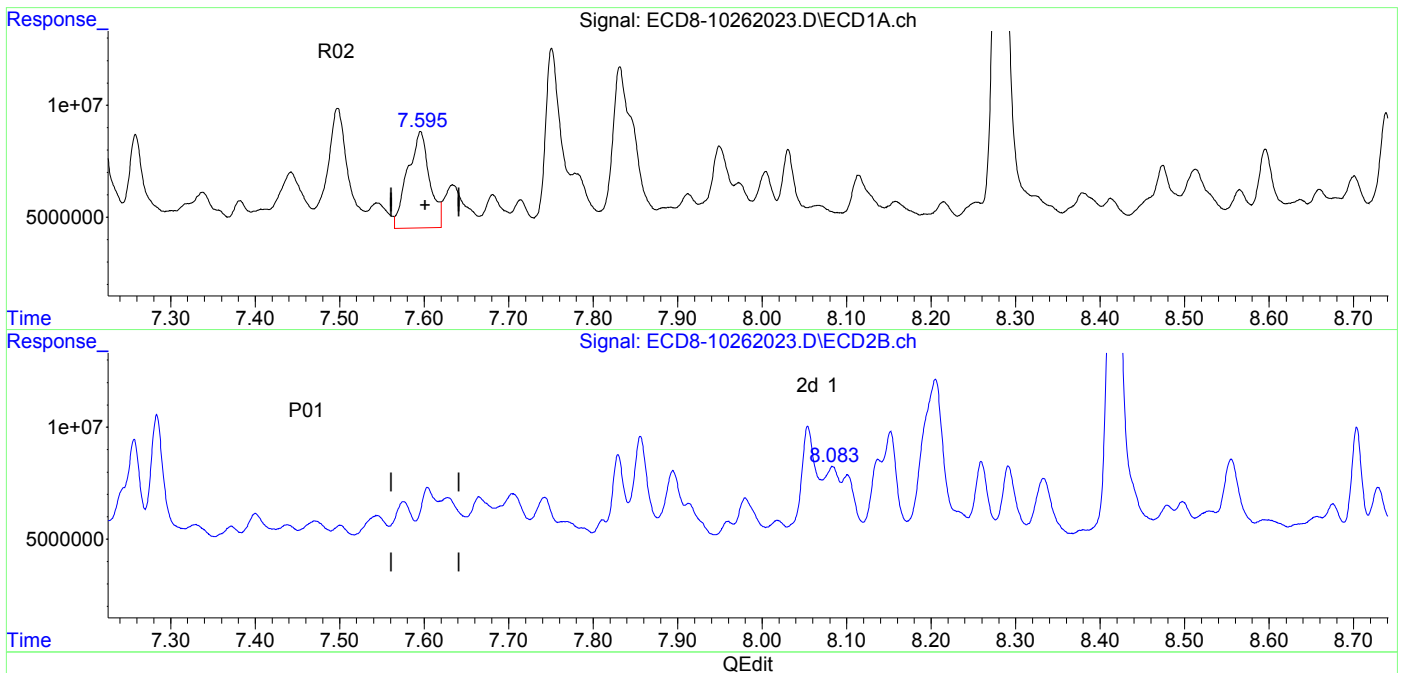
(17) 4,4'-DDT #2  
8.928min 2.728 ng/mL  
response 7230616

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE  
7.596min 2.026 ng/mL  
response 4308336

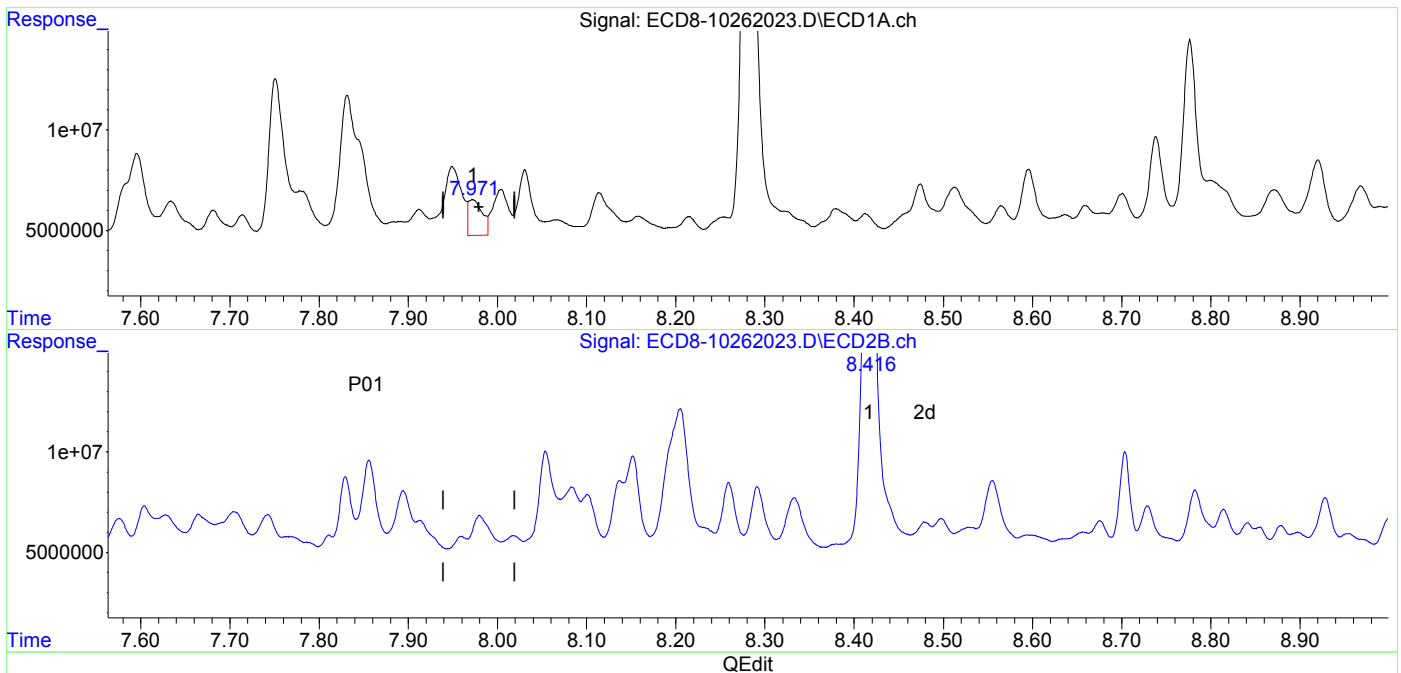
(26) 2,4'-DDE #2  
8.084min 3.159 ng/mL  
response 7664688

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD  
7.972min 0.928 ng/mL  
response 1782495

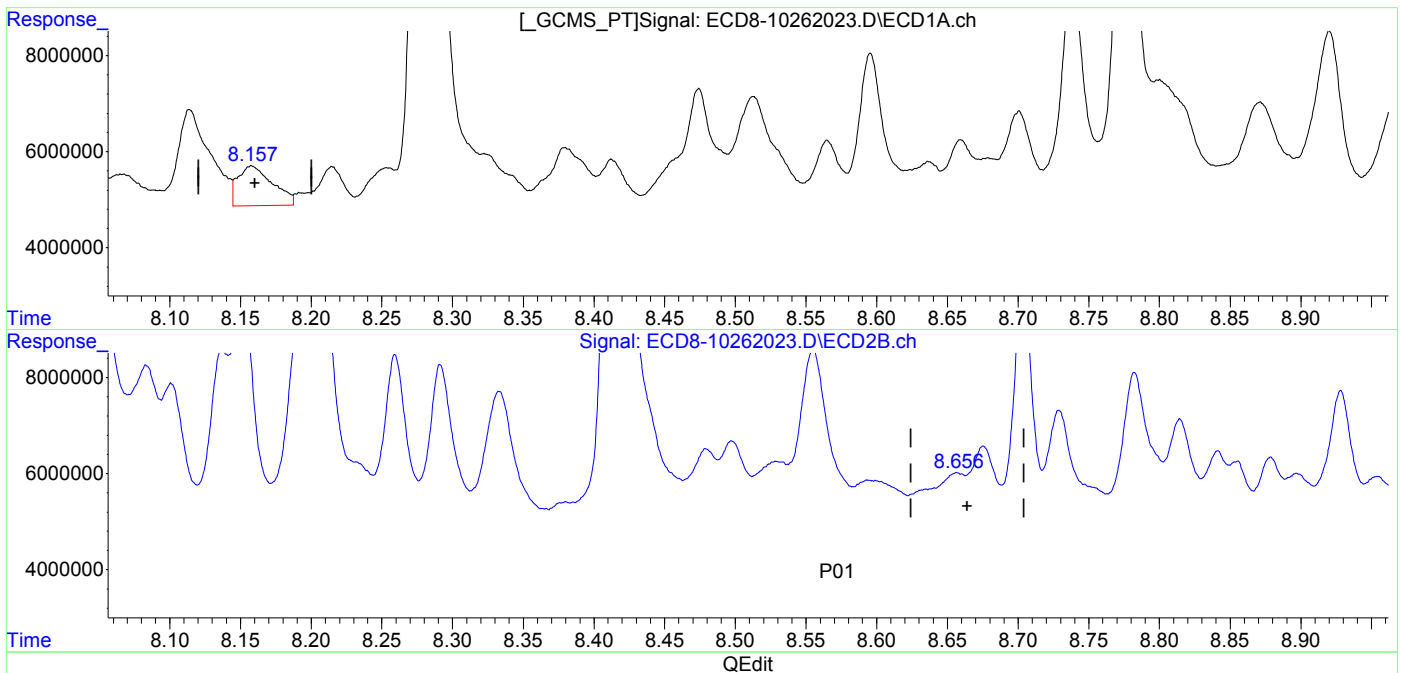
(28) 2,4'-DDD #2  
8.417min 13.896 ng/mL  
response 28530234

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:02  
Operator : MJB  
Sample : A0J0344-05RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:47:59 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT  
8.158min 0.389 ng/mL  
response 835793

(29) 2,4'-DDT #2  
8.657min 2.516 ng/mL  
response 5490925

AML 10/28/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262024.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 18:19  
 Operator : MJB  
 Sample : A0J0344-06RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:58:06 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.660	5.965	125.5E6	108.7E6	35.485	27.177
22) S DCBP (S)	9.880	10.474	105.1E6	99491903	41.957	41.124
Target Compounds						
2) a-BHC	6.215	6.587f	1557372	3219902	0.331	0.602 #
3) g-BHC	6.479f	6.904f	4382791	6874682	1.089	1.478 #
4) b-BHC	6.575	6.942	8269194	5750415	5.298	2.939 #
5) Heptachlor	6.907	7.257	2551863	6138576	0.629	1.341 #
6) d-BHC	6.751	7.194	2200068	4022387	0.774	1.063 #
7) Aldrin	7.158	7.499	6994564	2530898	1.781	0.593 #
8) Heptachlo...	7.596	7.960	8372909	2703832	2.290	0.673 #
9) trans-Chl...	7.713	8.082	2265080	5427531	0.615	1.364 #
10) cis-Chlor...	7.830f	8.203	9297098	10869718	2.567	2.802
11) Endosulfa...	7.912	8.259	2148646	8396579	0.632	2.335 #
12) 4,4'-DDE	7.830f	8.292	9297098	5651193	2.950	1.712 #MDL=
13) Dieldrin	8.091	8.416f	1114428	60321808	0.297	15.446 #
14) Endrin	8.243	8.663	1574809	3432117	0.574	1.351 #
15) 4,4'-DDD	8.281	8.704	55118955	7626213	20.267	2.657 #R02
16) Endosulfa...	8.411	8.819	2727632	2744847	0.926	0.843
17) 4,4'-DDT	8.474	8.927	2296907	3879430	0.952	1.498 #P01
18) Endrin Al...	8.699	9.048	4861928	4160147	1.413	1.155
19) Endosulfa...	9.008	9.245	2988116	4995444	1.000	1.503 #
20) Methoxychlor	8.776f	9.389	28308014	3767437	20.564	2.625 #
21) Endrin Ke...	9.176f	9.629	3939334	4495627	1.065	1.151
23) Hexachlor...	3.453	3.711f	706110	646236	0.007	BelowCal #
24) Hexachlor...	6.049	6.422	4592565	10867502	1.373	2.731 #
25) Oxychlorane	7.544	7.895	2867794	6706290	0.888	1.905 #

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262024.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 18:19  
 Operator : MJB  
 Sample : A0J0344-06RE1  
 Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 09:58:06 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.596	8.082	8372909	5427531	3.937	2.237	#R02
27)	trans-Non...	7.753f	8.136	11863672	9156738	3.283	2.322	#
28)	2,4'-DDD	7.973	8.416f	2621152	60321808	1.364	MDL= 29.036	#P01
29)	2,4'-DDT	8.155	8.663	1462887	3432117	0.682	1.520	#P01
30)	cis-Nonac...	8.281	8.704	55118955	7626213	13.977	1.783	#
31)	Mirex	8.919f	9.629	9308809	4495627	3.676	1.559	#
32)	Chlordane...	7.713	8.102	2265080	4358609	5.498	8.947	#
33)	Chlordane...	7.830	8.203	9297098	10869718	22.180	26.255	#
34)	Chlordane...	8.389	8.897f	2373408	3212455	18.405	23.752	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.830f	8.416f	9297098	60321808	624.941	1587.184	#
37)	Toxaphene...	8.091	8.780	1114428	6361841	33.833	134.944	#
38)	Toxaphene...	8.411	8.819	2727632	2744847	39.346	39.027	#
39)	Toxaphene...	0.000	8.897	0	3212455	N.D.	26.965	#
40)	Toxaphene...	8.877	9.079	2929904	4267486	49.356	61.946	#
41)	Toxaphene...	8.970	9.430	2229332	8927872	33.113	119.226	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

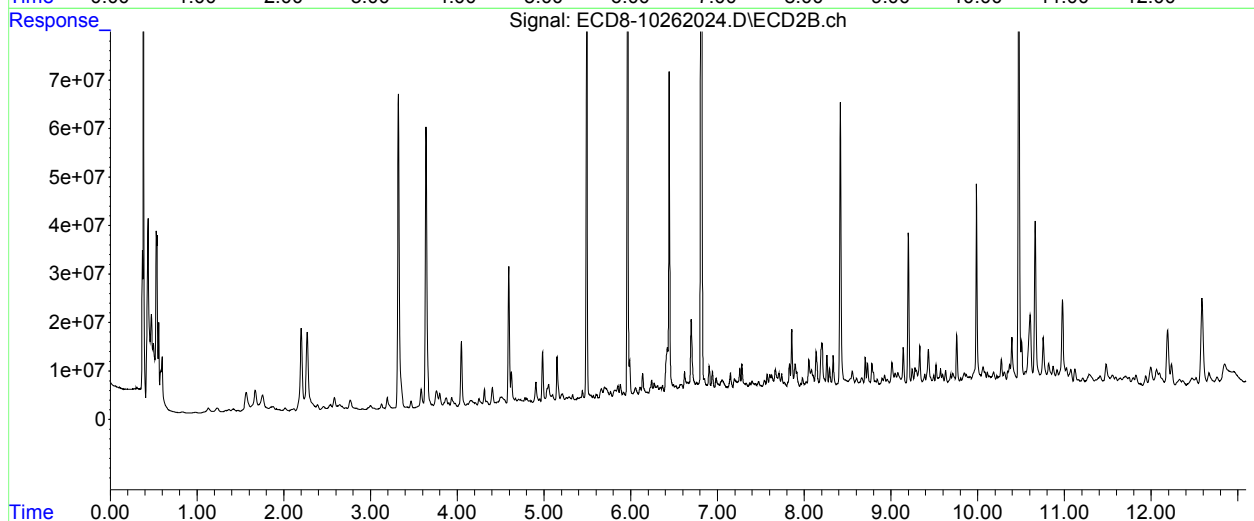
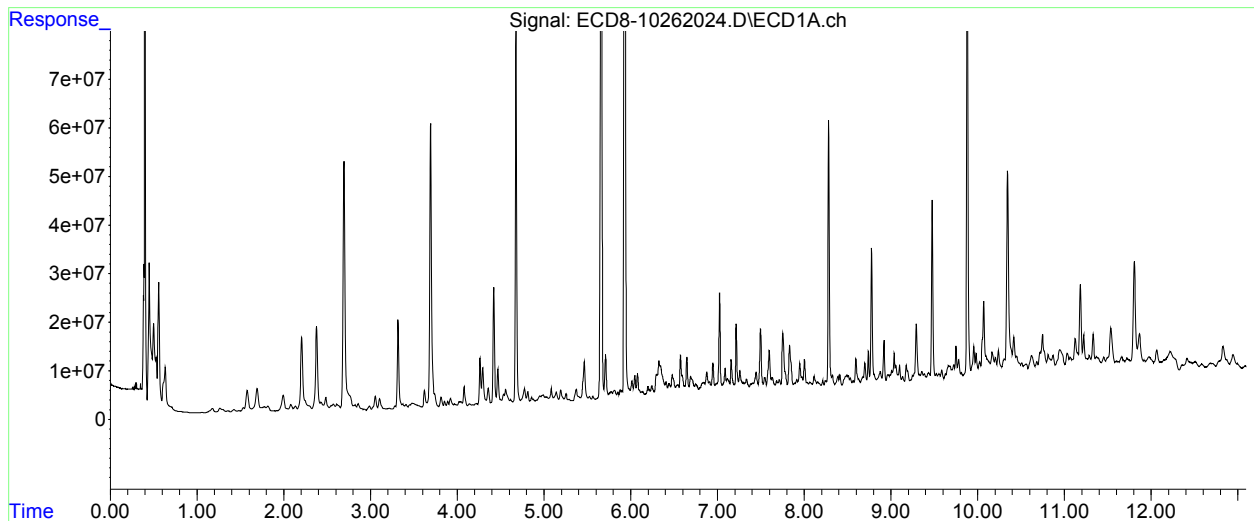


Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

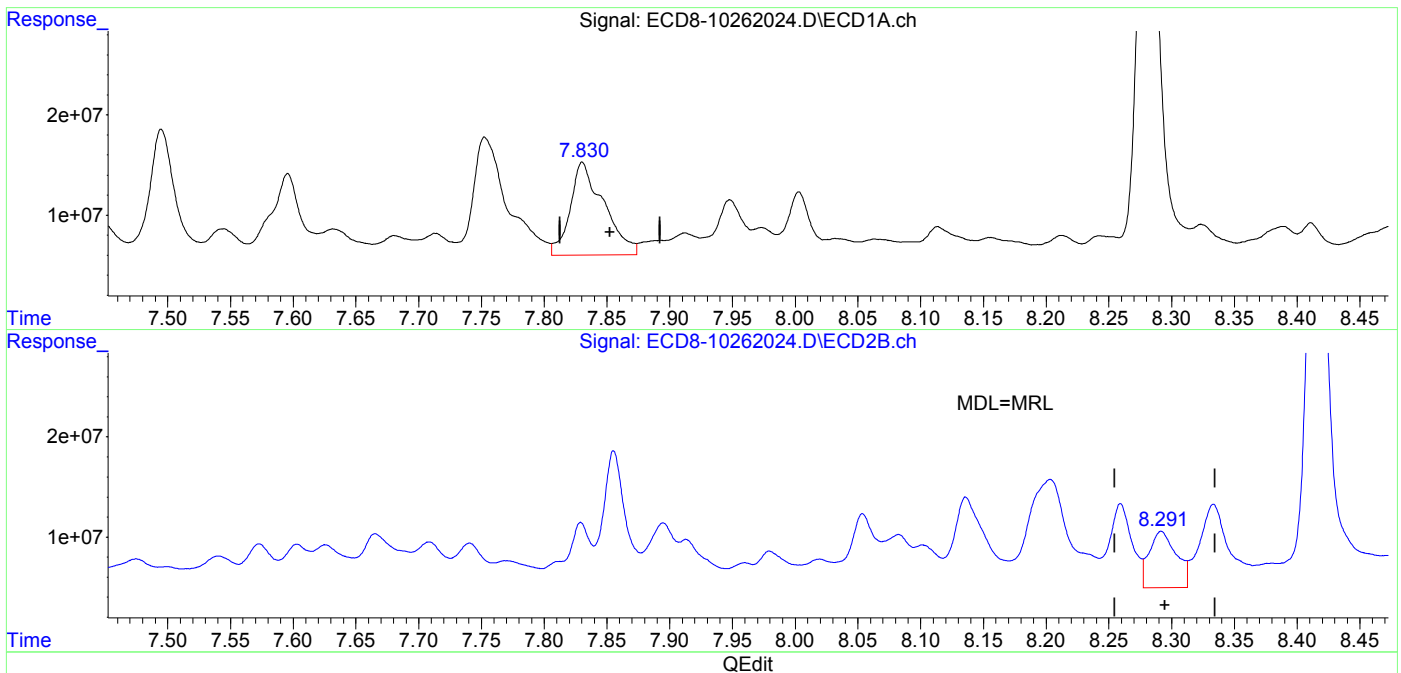


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



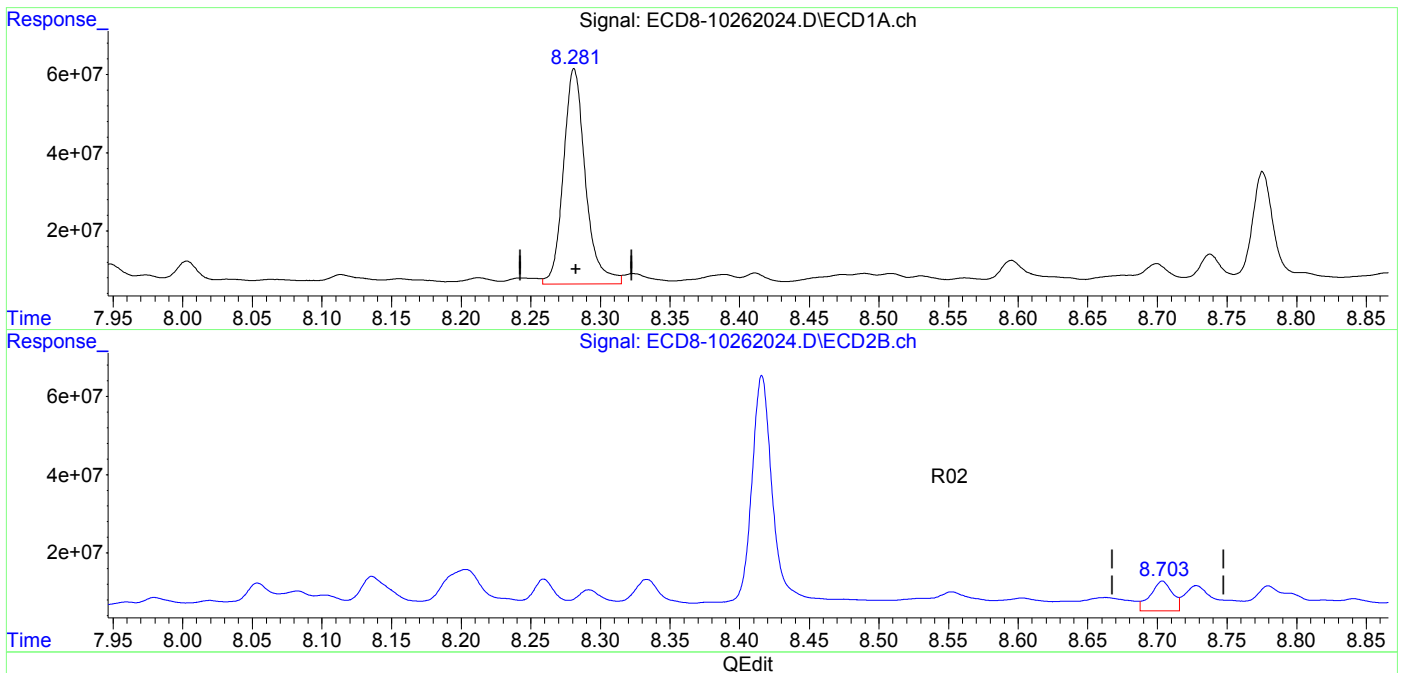
(12) 4,4'-DDE  
7.830min 2.950 ng/mL  
response 9297098  
  
(12) 4,4'-DDE #2  
8.292min 1.712 ng/mL  
response 5651193

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(15) 4,4'-DDD  
8.281min 20.267 ng/mL  
response 55118955

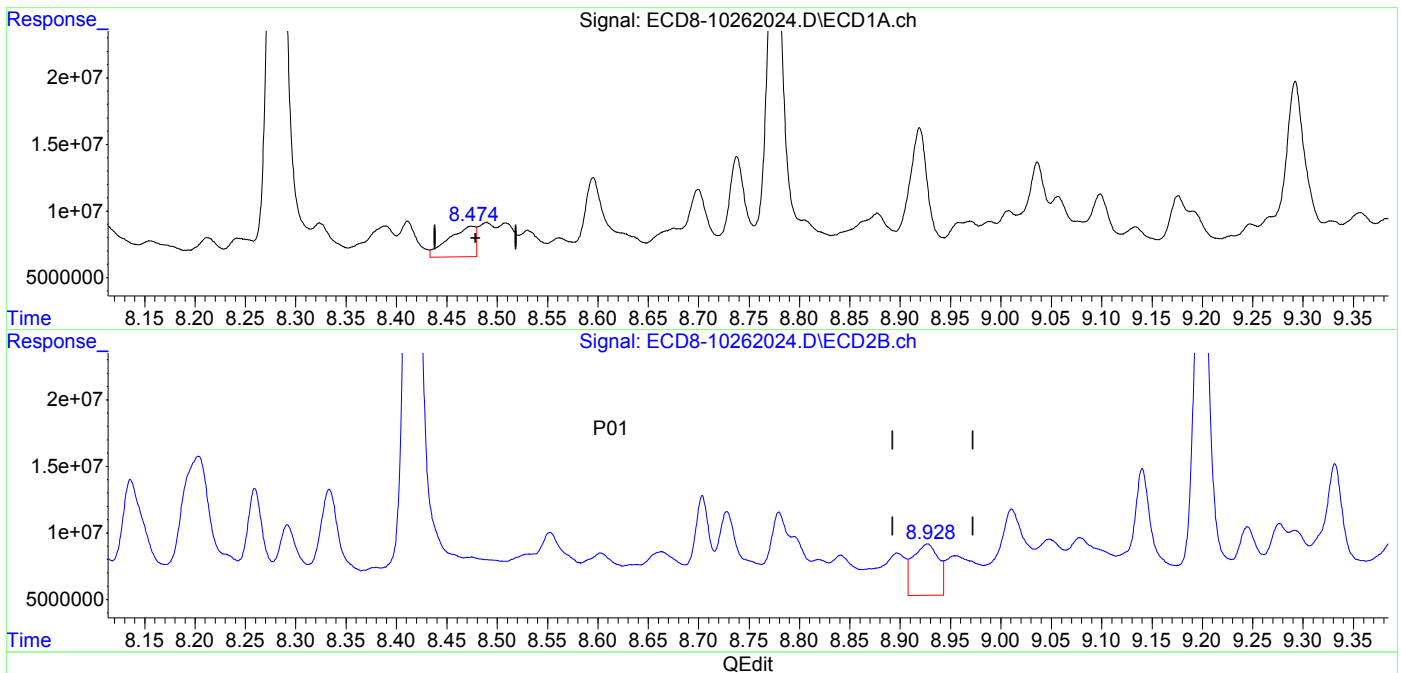
(15) 4,4'-DDD #2  
8.704min 2.657 ng/mL  
response 7626213

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT  
8.474min 0.952 ng/mL  
response 2296907

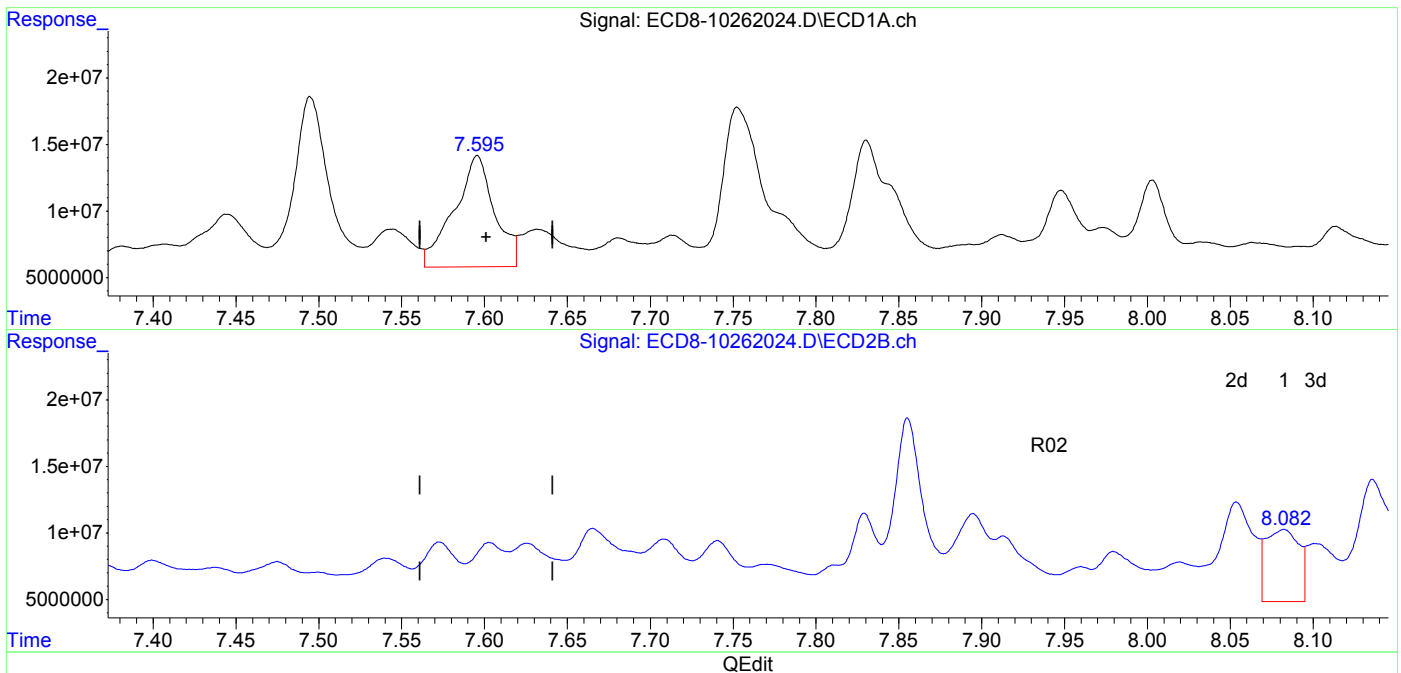
(17) 4,4'-DDT #2  
8.927min 1.498 ng/mL  
response 3879430

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE  
7.596min 3.937 ng/mL  
response 8372909

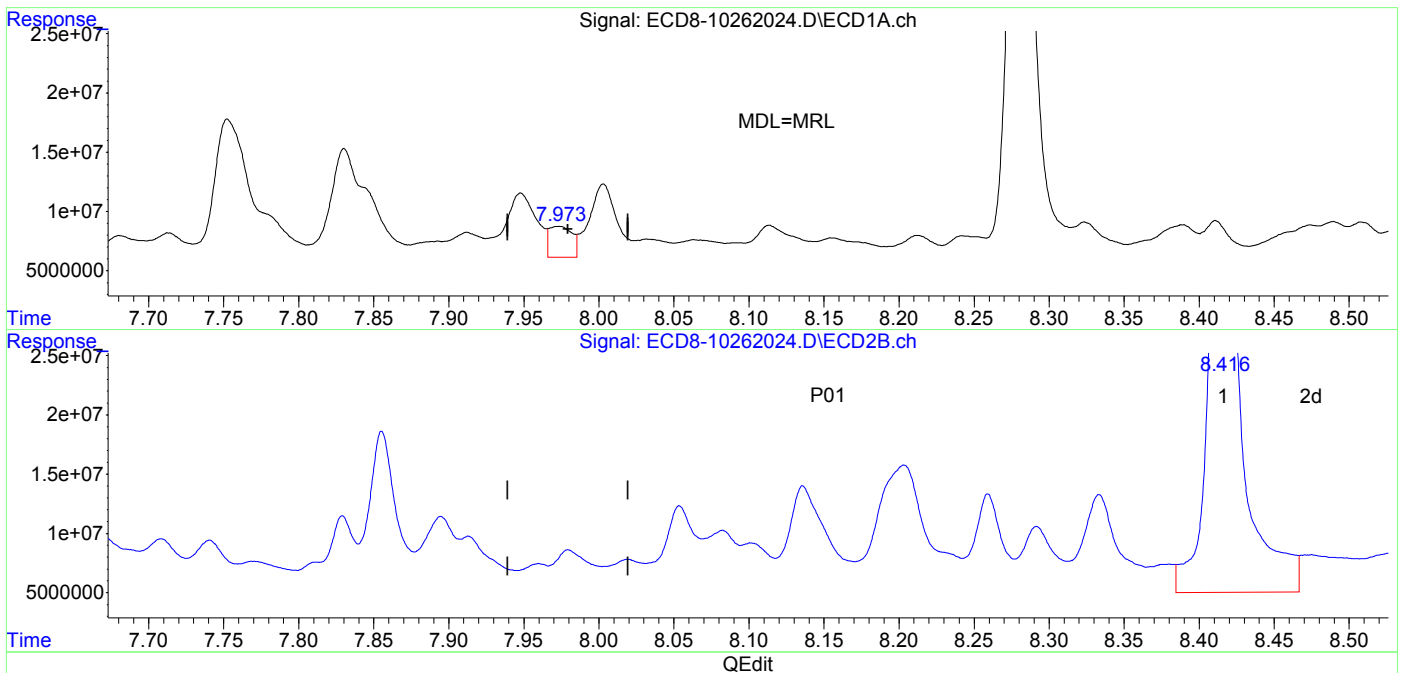
(26) 2,4'-DDE #2  
8.082min 2.237 ng/mL  
response 5427531

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



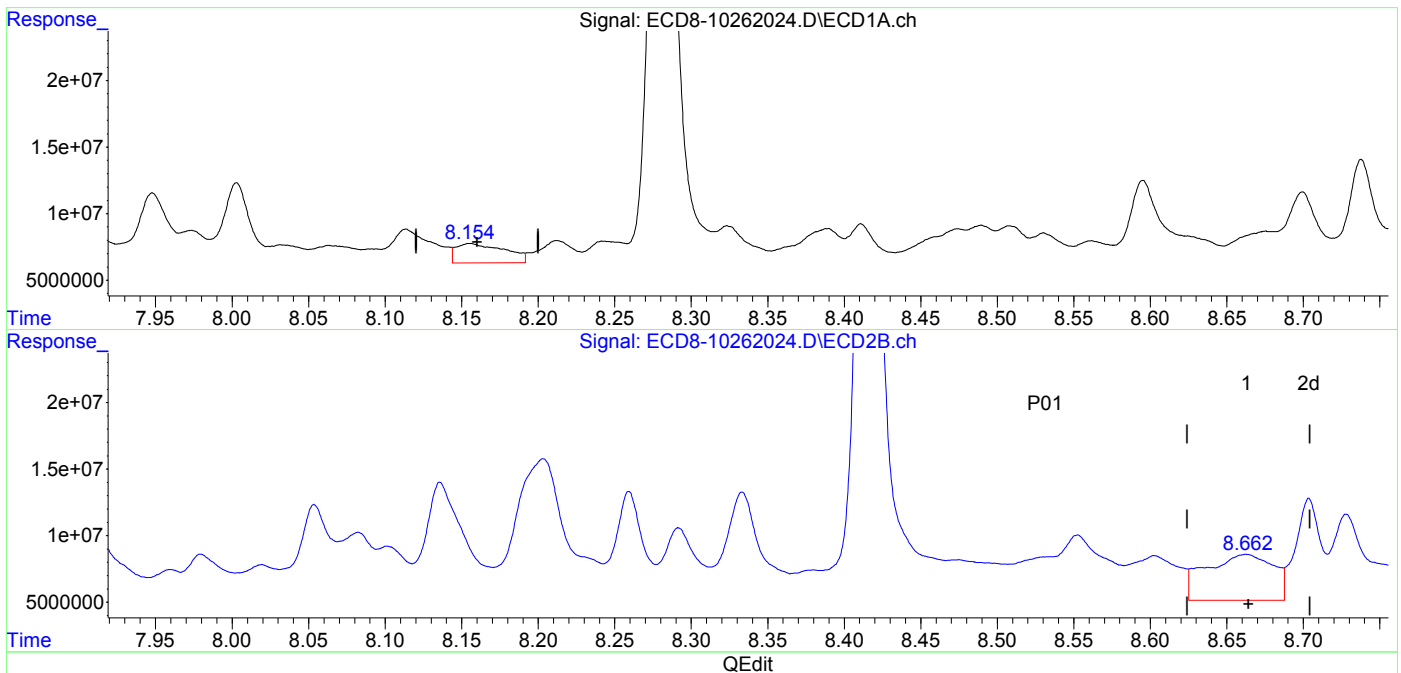
(28) 2,4'-DDD  
7.973min 1.364 ng/mL  
response 2621152  
  
(28) 2,4'-DDD #2  
8.416min 29.036 ng/mL  
response 60321808

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 18:19  
Operator : MJB  
Sample : A0J0344-06RE1  
Misc : 1x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 09:58:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(29) 2,4'-DDT  
8.155min 0.682 ng/mL  
response 1462887

(29) 2,4'-DDT #2  
8.663min 1.520 ng/mL  
response 3432117

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262031.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 20:14  
 Operator : MJB  
 Sample : A0J0371-07RE1@2 44  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:16:57 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.658	5.964	78718672	69796914	22.260	17.446
22) S DCBP (S)	9.878	10.472	65869651	62597544	26.237	25.874
Target Compounds						
2) a-BHC	6.213	6.567	1299013	1380841	0.276	0.258
3) g-BHC	6.483	6.873	2914149	1363375	0.724	0.293 #
4) b-BHC	6.576	6.941	4457017	4577954	2.855	2.340
5) Heptachlor	6.902	7.258	1711141	3325283	0.422	0.727 #
6) d-BHC	6.740	7.206	1061730	2138775	0.404	0.597 #
7) Aldrin	7.157	7.502	4997870	1190460	1.272	0.279 #
8) Heptachlo...	7.595	7.961	7665323	1239535	2.097	0.309 #
9) trans-Chl...	7.712	8.101	2970736	6380483	0.807	1.603 #
10) cis-Chlor...	7.829f	8.204	7629440	6213055	2.106	1.601
11) Endosulfa...	7.910	8.259	1875300	6476554	0.551	1.801 #
12) 4,4'-DDE	7.839	8.294	5042609	5056939	1.600m	1.537 MDL=M
13) Dieldrin	8.089	8.416f	384214	22827756	0.102	5.937 R#
14) Endrin	8.279f	8.674	24760227	2307906	9.029	0.918 #
15) 4,4'-DDD	8.279	8.703	24760227	9294251	9.104	3.234 #P11
16) Endosulfa...	8.410	8.817	2292497	1954179	0.778	0.600
17) 4,4'-DDT	8.471	8.926	1174242	2560221	0.503	1.011 #P01
18) Endrin Al...	8.696	9.044	6864588	3644057	2.119	0.978 #
19) Endosulfa...	9.005	9.246	6691988	6138220	2.239	1.847
20) Methoxychlor	8.805	9.387	1623745	2871453	1.180	1.991 #
21) Endrin Ke...	9.188f	9.624	1808672	4051395	0.489	1.037 #
23) Hexachlor...	3.452	3.686	445631	1357511	BelowCal	0.184
24) Hexachlor...	6.048	6.444	3374260	39786524	1.009	9.997 #
25) Oxychlordan	7.546	7.895	2118678	3674292	0.656	1.044 #



Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262031.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 20:14  
 Operator : MJB  
 Sample : A0J0371-07RE1@2 44  
 Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:16:57 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
26)	2,4'-DDE	7.595	8.054	7665323	5194493	3.604	2.141	#R02
27)	trans-Non...	7.750f	8.137	7351730	4090534	2.035	1.037	#
28)	2,4'-DDD	7.972	8.416f	2423374	22827756	1.261	MDL=MR1 .122	#P01
29)	2,4'-DDT	8.154	8.674	478939	2307906	0.223	0.974	#
30)	cis-Nonac...	8.279	8.703	24760227	9294251	6.279	2.173	#
31)	Mirex	8.917f	9.624	3611835	4051395	1.237	1.371	#
32)	Chlordane...	7.712	8.101	2970736	6380483	7.211	13.098	#
33)	Chlordane...	7.829	8.204	7629440	6213055	18.202	15.007	#
34)	Chlordane...	8.389	8.898f	2093653	1956192	16.235	14.464	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.829f	8.416f	7629440	22827756	512.842	600.642	#
37)	Toxaphene...	8.089	8.792	384214	3814650	11.665	80.914	#
38)	Toxaphene...	8.410	8.817	2292497	1954179	33.070	27.785	#
39)	Toxaphene...	8.696f	8.898	6864588	1956192	92.241	16.420	#
40)	Toxaphene...	8.876	9.078	3938049	3753213	66.338	54.481	#
41)	Toxaphene...	8.967	9.454	1581168	3571414	23.486	47.694	#
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

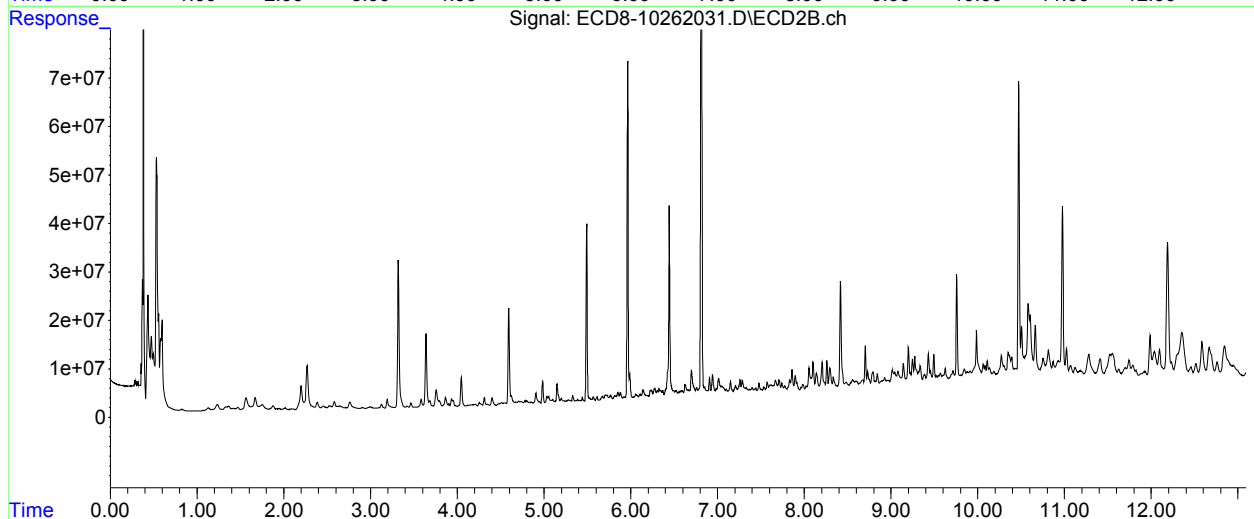
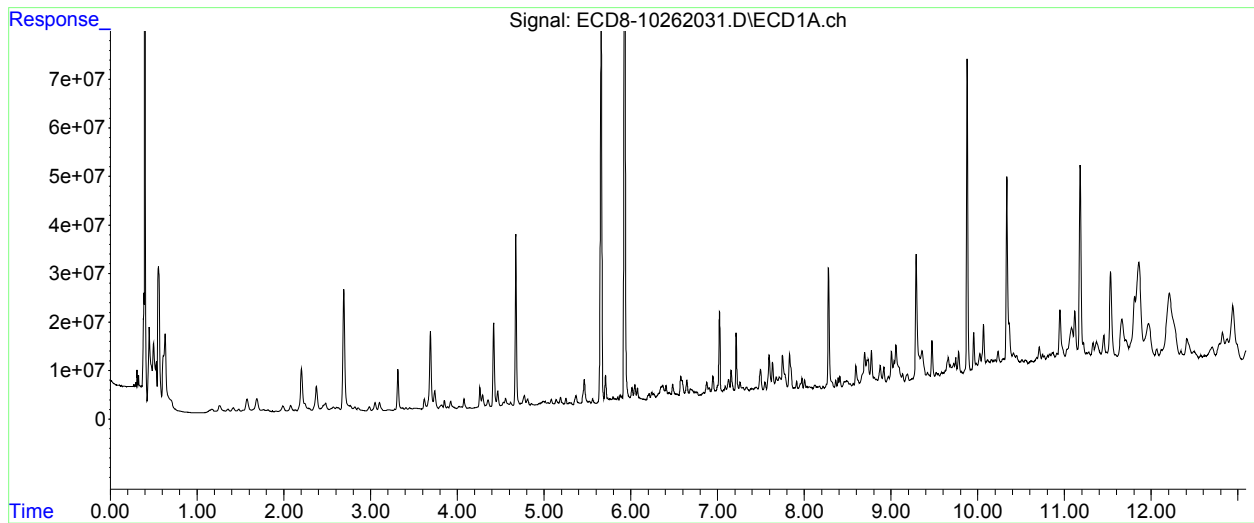
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:14  
Operator : MJB  
Sample : A0J0371-07RE1@2 44  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:16:57 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

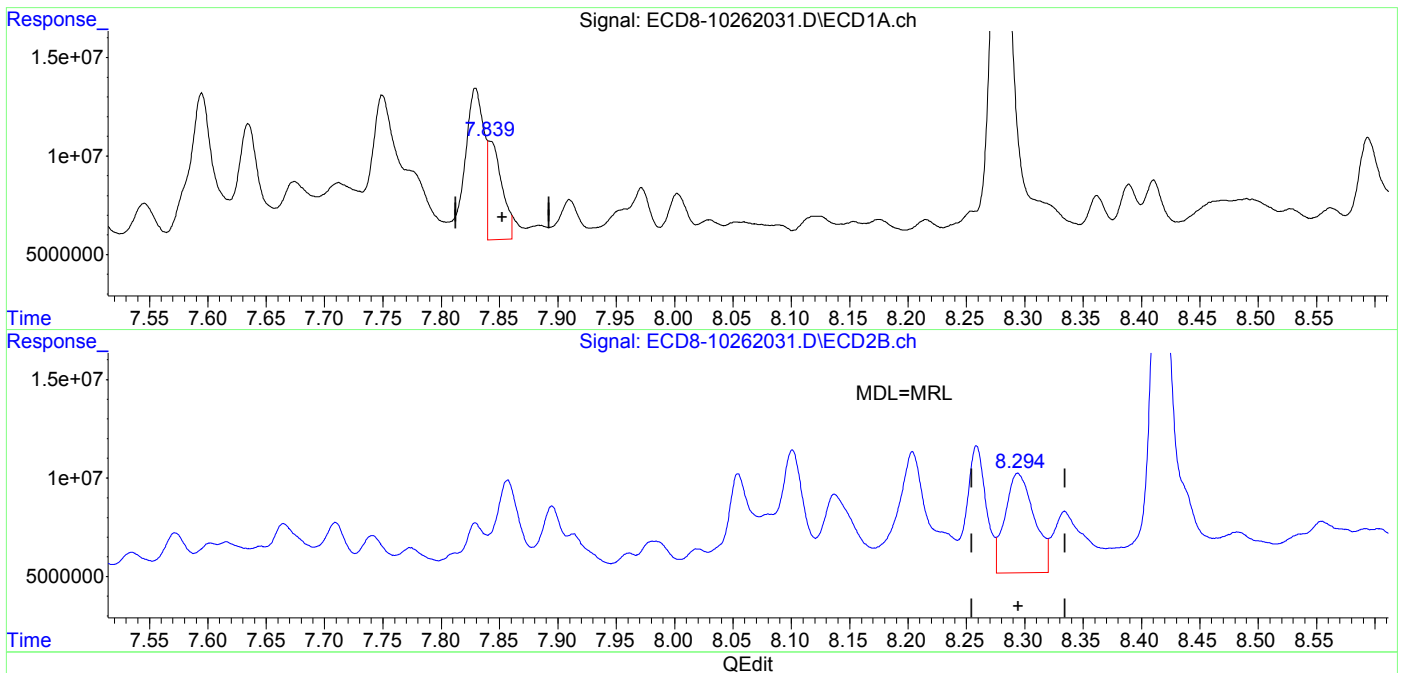


Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:14  
Operator : MJB  
Sample : A0J0371-07RE1@2 44  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:14:40 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(12) 4,4'-DDE  
7.839min 1.600 ng/mL m  
response 5042609

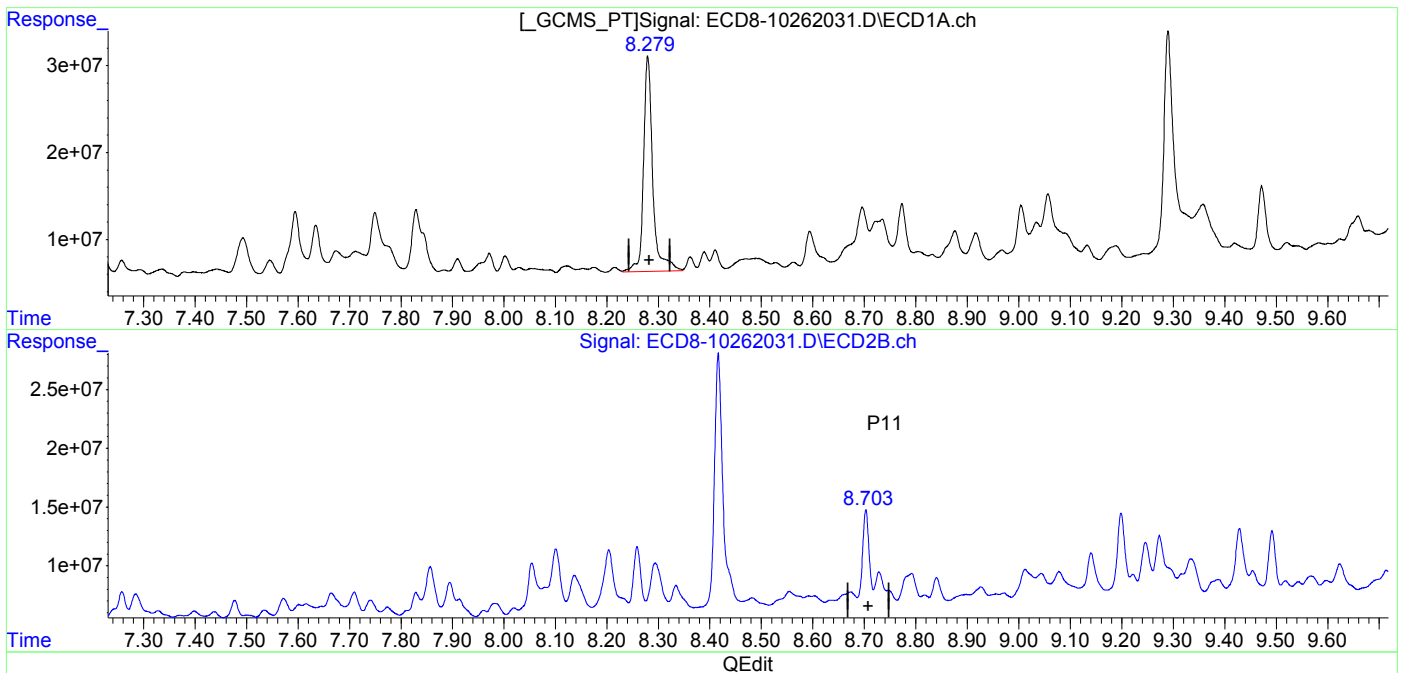
(12) 4,4'-DDE #2  
8.294min 1.537 ng/mL  
response 5056939

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:14  
Operator : MJB  
Sample : A0J0371-07RE1@2 44  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:14:40 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



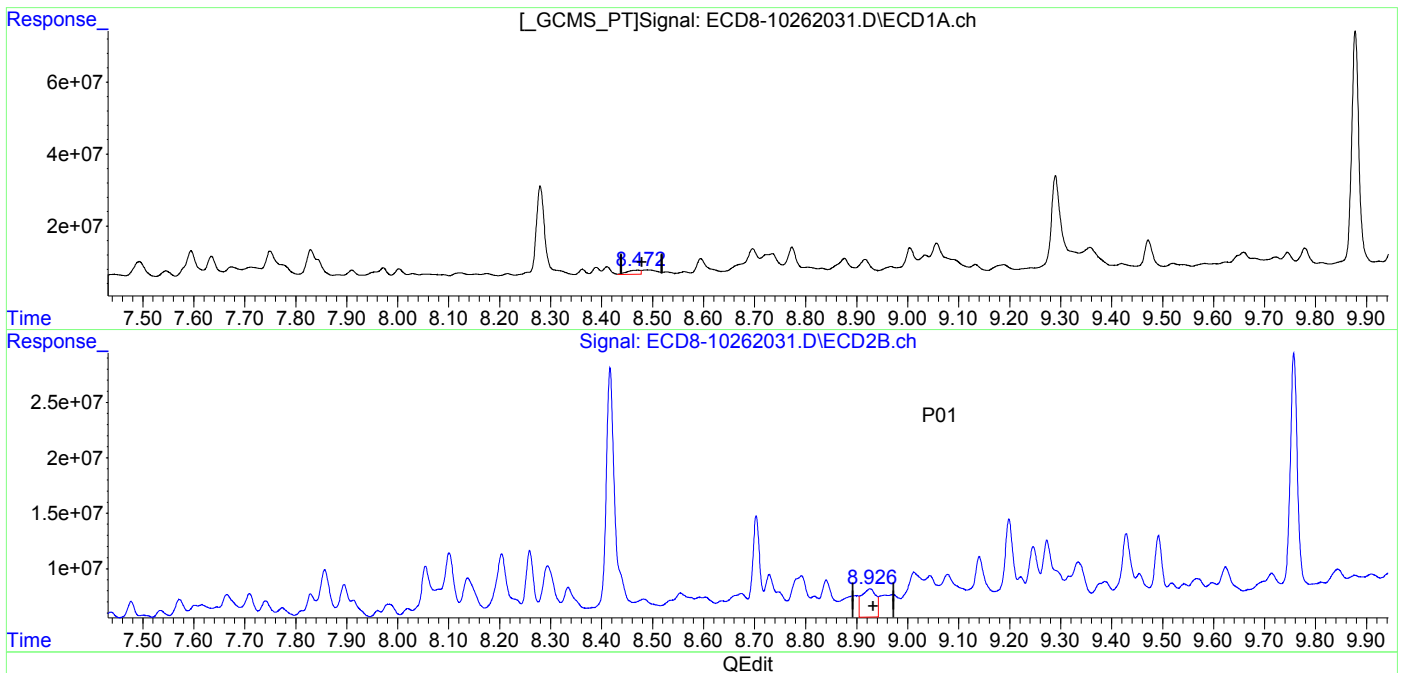
(15) 4,4'-DDD  
8.279min 9.104 ng/mL  
response 24760227  
  
(15) 4,4'-DDD #2  
8.703min 3.234 ng/mL  
response 9294251

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:14  
Operator : MJB  
Sample : A0J0371-07RE1@2 44  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:14:40 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(17) 4,4'-DDT  
8.471min 0.503 ng/mL  
response 1174242

(17) 4,4'-DDT #2  
8.926min 1.011 ng/mL  
response 2560221

(+) = Expected Retention Time

ECD8\_QUANTPEST\_201015.M Wed Oct 28 11:18:11 2020

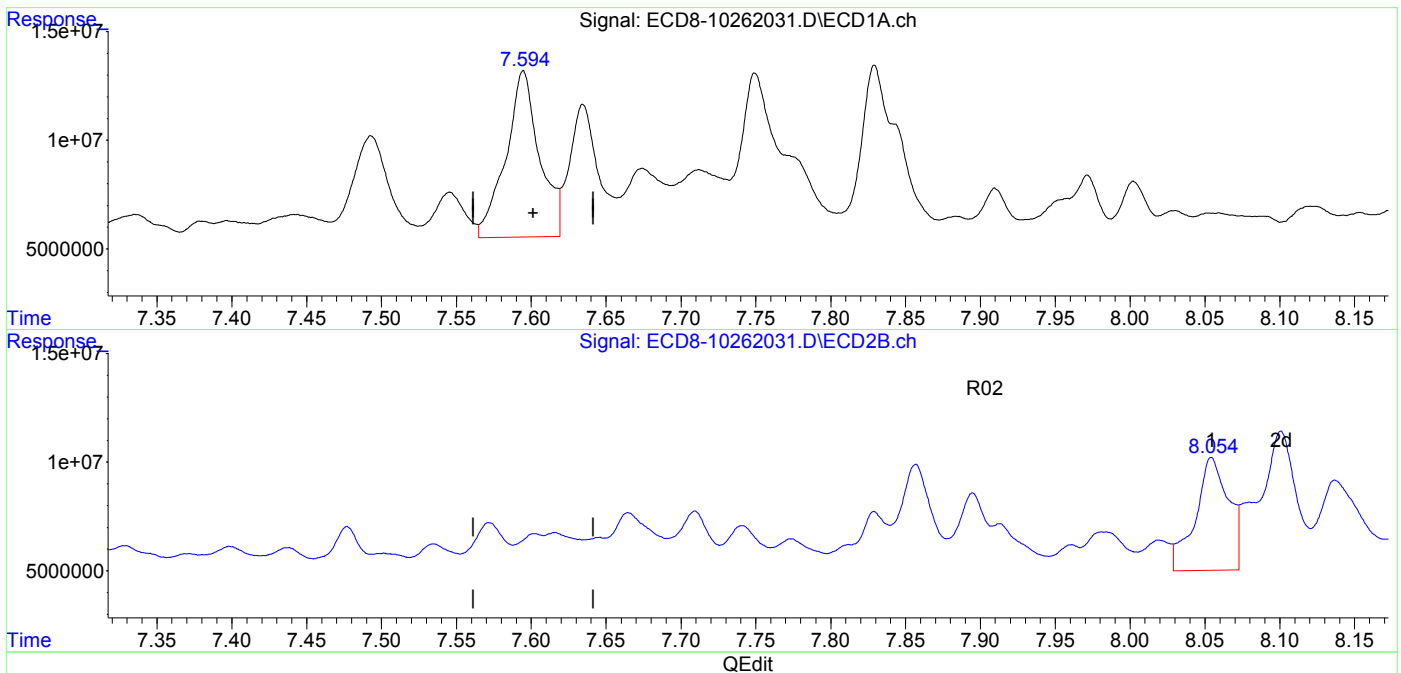
Page: 1

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:14  
Operator : MJB  
Sample : A0J0371-07RE1@2 44  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:14:40 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(26) 2,4'-DDE  
7.595min 3.604 ng/mL  
response 7665323

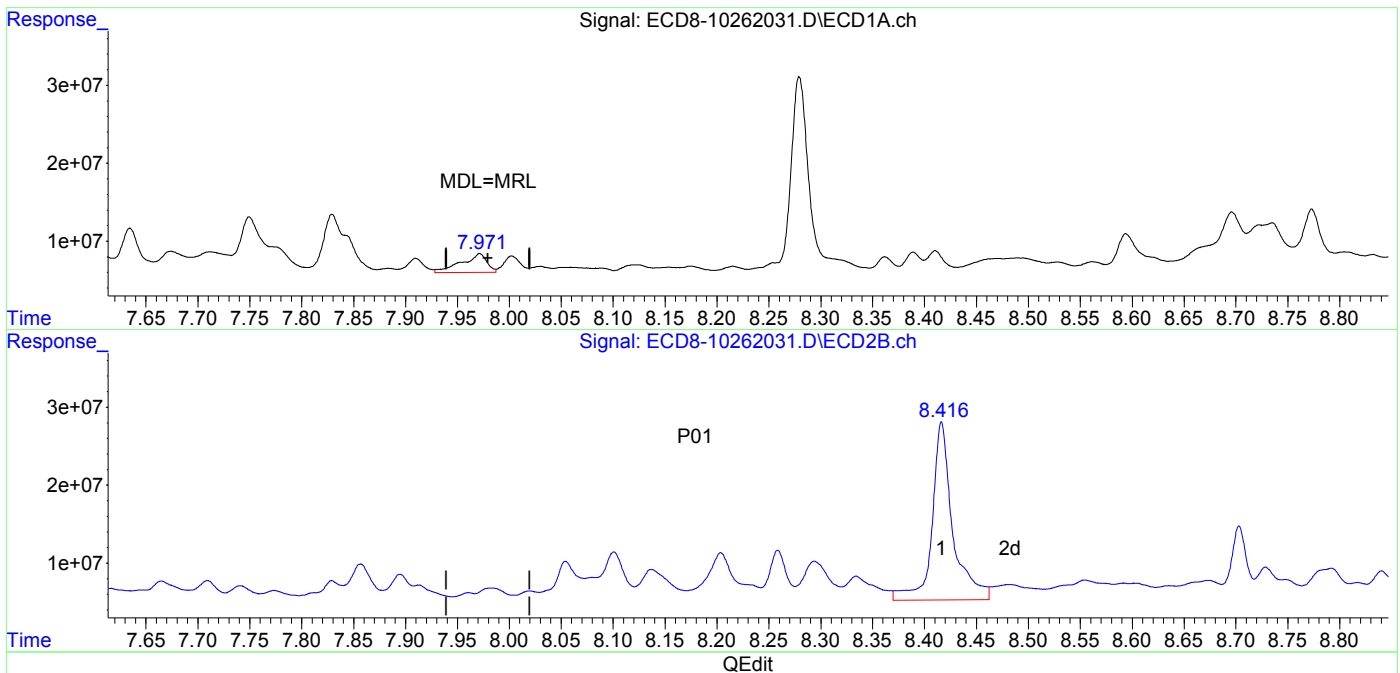
(26) 2,4'-DDE #2  
8.054min 2.141 ng/mL  
response 5194493

Quantitation Report (Qedit)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:14  
Operator : MJB  
Sample : A0J0371-07RE1@2 44  
Misc : 2x, 8081B 2,4+4,4-DDx Only, GPC  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:14:40 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



(28) 2,4'-DDD  
7.972min 1.261 ng/mL  
response 2423374  
  
(28) 2,4'-DDD #2  
8.416min 11.122 ng/mL  
response 22827756

AML 10/28/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262032.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 20:31  
 Operator : MJB  
 Sample : 0J26061-CCV6  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:24:06 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.661	5.964	176.7E6	209.0E6	49.957	52.233
22) S DCBP (S)	9.880	10.474	129.8E6	128.9E6	51.787	53.287
Target Compounds						
2) a-BHC	6.212	6.559	244.4E6	294.4E6	51.876	55.038
3) g-BHC	6.498	6.874	202.3E6	255.1E6	50.273	54.856
4) b-BHC	6.580	6.941	76417590	98581164	48.959	50.383
5) Heptachlor	6.897	7.246	199.1E6	240.9E6	49.054	52.641
6) d-BHC	6.734	7.189	173.8E6	235.1E6	51.803	52.973
7) Aldrin	7.139	7.509	200.5E6	231.0E6	51.042	54.109
8) Heptachlo...	7.608	7.944	185.8E6	214.4E6	50.828	53.392
9) trans-Chl...	7.701	8.084	186.2E6	214.8E6	50.564	53.961
10) cis-Chlor...	7.798	8.190	179.7E6	212.0E6	49.616	54.644
11) Endosulfa...	7.902	8.240	173.7E6	198.4E6	51.076	55.155
12) 4,4'-DDE	7.851	8.293	170.4E6	215.4E6	54.070	56.737
13) Dieldrin	8.075	8.438	194.8E6	223.3E6	51.842	54.113
14) Endrin	8.246	8.661	139.5E6	160.0E6	50.887	55.089
15) 4,4'-DDD	8.281	8.706	156.4E6	191.6E6	57.512	59.663
16) Endosulfa...	8.407	8.808	151.2E6	169.8E6	51.333	52.148
17) 4,4'-DDT	8.476	8.931	127.6E6	149.3E6	46.965	48.807
18) Endrin Al...	8.702	9.042	139.7E6	160.6E6	48.926	52.610
19) Endosulfa...	9.007	9.236	148.1E6	173.7E6	49.548	52.279
20) Methoxychlor	8.808	9.396	66046142	75895400	47.978	49.503
21) Endrin Ke...	9.209	9.627	194.1E6	214.4E6	52.486	54.899
23) Hexachlor...	3.415f	3.691	9430	102613	BelowCal	BelowCal
24) Hexachlor...	6.048	6.427	325472	19903	0.097	0.005 #
25) Oxychlorane	7.542	7.868	886984	262985	0.275	0.075 #



Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262032.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 20:31  
 Operator : MJB  
 Sample : 0J26061-CCV6  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:24:06 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.608	8.084	185.8E6	214.8E6	87.370	88.508
27)	trans-Non...	7.798	8.148	179.7E6	836293	49.739	0.212 #
28)	2,4'-DDD	0.000	8.438	0	223.3E6	N.D.	99.508 #
29)	2,4'-DDT	8.157	8.661	453885	160.0E6	0.212	68.058 #
30)	cis-Nonac...	8.281	8.706	156.4E6	191.6E6	39.662	44.780
31)	Mirex	8.935	9.627	791408	214.4E6	0.029	85.404 #
32)	Chlordane...	7.701f	8.084f	186.2E6	214.8E6	452.017	440.894
33)	Chlordane...	7.798f	8.240f	179.7E6	198.4E6	428.767	479.122
34)	Chlordane...	8.407f	8.883	151.2E6	1550395	1172.481	11.463 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.798	8.438	179.7E6	223.3E6	12080.716	5875.593 #
37)	Toxaphene...	8.075f	8.808	194.8E6	169.8E6	5912.862	3601.591 #
38)	Toxaphene...	8.407	8.808	151.2E6	169.8E6	2181.066	2414.167
39)	Toxaphene...	8.626f	8.883	1985876	1550395	26.685	13.014 #
40)	Toxaphene...	8.882	9.042f	988587	160.6E6	16.653	2331.150 #
41)	Toxaphene...	8.961	9.459	900445	1137473	13.375	15.190
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

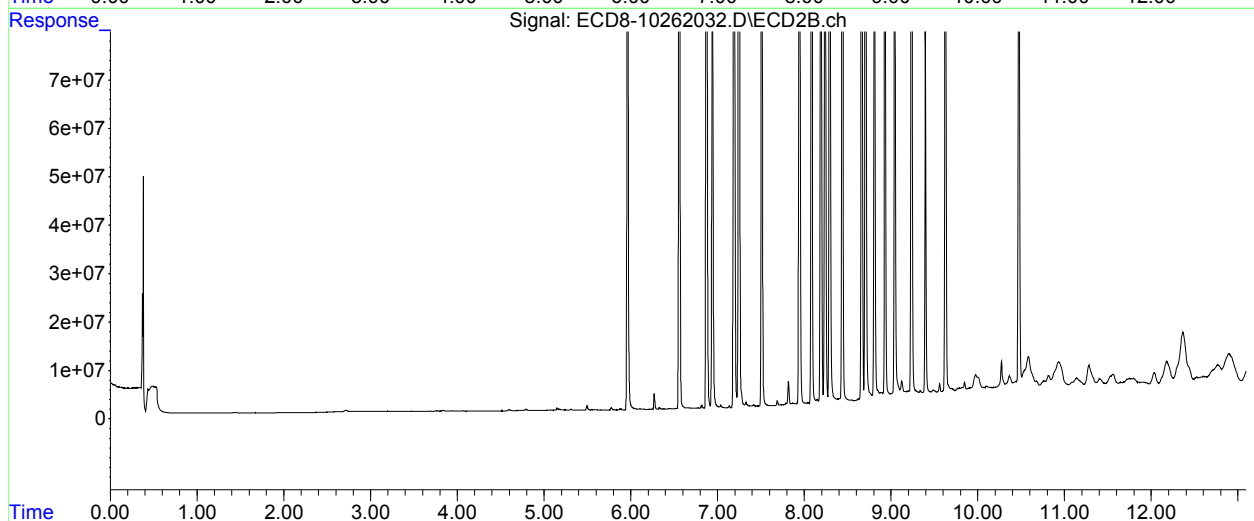
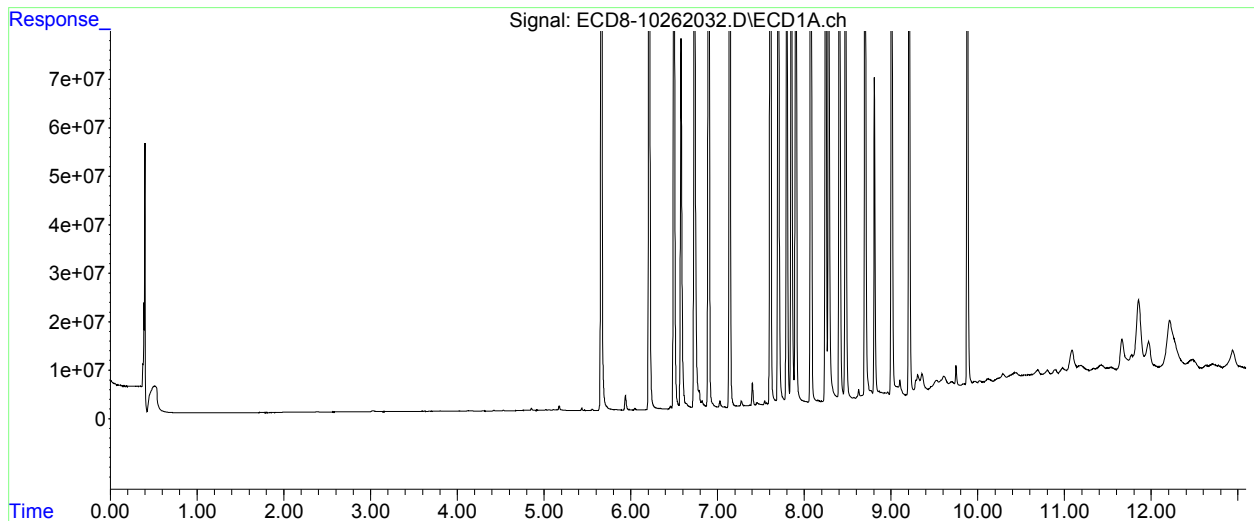
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262032.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:31  
Operator : MJB  
Sample : 0J26061-CCV6  
Misc : A20H475, AB 50 ppb  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:24:06 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



*HML 10/28/20*

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262033.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 20:47  
 Operator : MJB  
 Sample : 0J26061-CCV7  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:25:14 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.631f	6.001f	1292440	1396421	0.365	0.349
22) S DCBP (S)	9.853f	0.000	1768269	0	0.452	N.D. #
Target Compounds						
2) a-BHC	6.208	6.554	301808	391127	0.064	0.073
3) g-BHC	6.505	6.872	84863	265441	0.021	0.057 #
4) b-BHC	6.590	6.946	98925	337591	0.063	0.173 #
5) Heptachlor	6.896	7.245	418645	518538	0.103	0.113
6) d-BHC	6.734	7.190	81322	225556	0.085	0.123 #
7) Aldrin	7.141	7.512	20697	36569	0.005	0.009 #
8) Heptachlo...	7.598	7.941	102.8E6	331178	28.120	0.082 #
9) trans-Chl...	7.700	8.070	555708	123.1E6	0.151	30.922 #
10) cis-Chlor...	7.784	0.000	170.8E6	0	47.157	N.D. #
11) Endosulfa...	7.919	8.238	56080	294666	0.016	0.082 #
12) 4,4'-DDE	0.000	8.297	0	240348	N.D.	0.119 #
13) Dieldrin	8.051f	8.441	1197793	114.8E6	0.319	28.835 #
14) Endrin	8.263	8.663	189.8E6	109.6E6	69.193	39.005 #
15) 4,4'-DDD	8.263	8.708	189.8E6	209.1E6	69.770	64.531
16) Endosulfa...	8.414	8.849f	279222	1307928	0.095	0.402 #
17) 4,4'-DDT	8.476	8.928	176518	1126507	0.103	0.481 #
18) Endrin Al...	8.706	9.052	75909	2625244	BelowCal	0.628
19) Endosulfa...	9.041f	0.000	480598	0	0.161	N.D. #
20) Methoxychlor	0.000	9.400	0	774673	N.D.	0.501 #
21) Endrin Ke...	9.211	9.616	521220	128.3E6	0.141	32.848 #
23) Hexachlor...	3.451	3.677	180.3E6	217.8E6	55.436	55.165
24) Hexachlor...	6.048	6.427	155.5E6	192.2E6	46.479	48.280
25) Oxychlorane	7.531	7.875	154.1E6	172.5E6	47.724	49.002

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262033.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 20:47  
 Operator : MJB  
 Sample : 0J26061-CCV7  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:25:14 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.598	8.070	102.8E6	123.1E6	48.336	50.719
27)	trans-Non...	7.784	8.150	170.8E6	194.3E6	47.274	49.289
28)	2,4'-DDD	7.977	8.441	96886825	114.8E6	50.426	53.829
29)	2,4'-DDT	8.158	8.663	98326460	109.6E6	45.819	48.348
30)	cis-Nonac...	8.263	8.708	189.8E6	209.1E6	48.116	48.869
31)	Mirex	8.937	9.616	117.4E6	128.3E6	49.783	52.129
32)	Chlordane...	7.700f	8.070f	555708	123.1E6	1.349	252.651 #
33)	Chlordane...	7.784f	8.238f	170.8E6	294666	407.516	0.712 #
34)	Chlordane...	8.372	8.849f	374571	1307928	2.905	9.670 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.784	8.441	170.8E6	114.8E6	11481.963	3021.799 #
37)	Toxaphene...	8.130f	0.000	1399159	0	42.478	N.D. #
38)	Toxaphene...	8.414	8.849f	279222	1307928	4.028	18.596 #
39)	Toxaphene...	8.651	8.893	117630	1110907	1.581	9.325 #
40)	Toxaphene...	8.905	9.052	494744	2625244	8.334	38.108 #
41)	Toxaphene...	8.937f	9.442	117.4E6	738488	1743.284	9.862 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

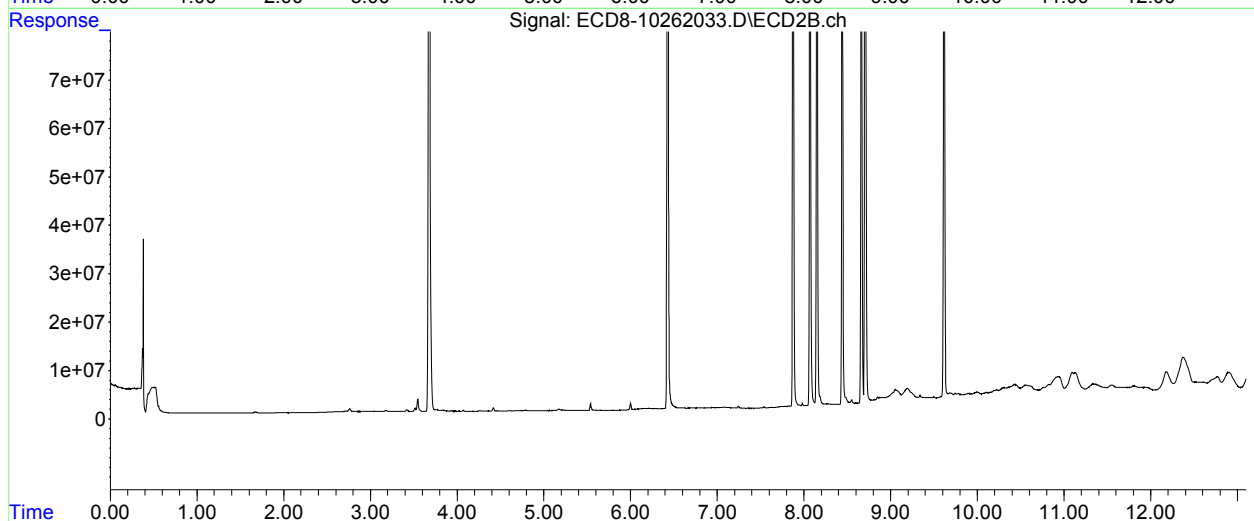
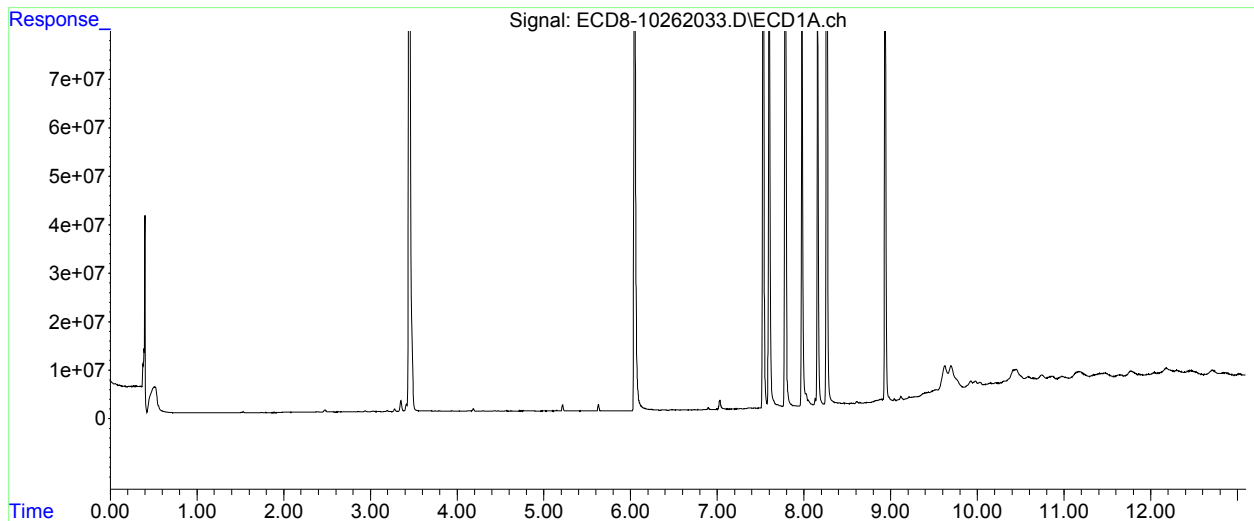
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262033.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 20:47  
Operator : MJB  
Sample : 0J26061-CCV7  
Misc : A20I185, 9-42 50 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:25:14 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um



AML 10/28/20

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262034.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 21:04  
 Operator : MJB  
 Sample : 0J26061-CCB3  
 Misc : A20J148  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:26:02 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.660	5.964	322.9E6	393.3E6	91.297	98.293
22) S DCBP (S)	9.881	10.474	239.5E6	248.1E6	95.315	102.547
Target Compounds						
2) a-BHC	6.214	6.555	19496	102265	0.004	0.019 #
3) g-BHC	6.492	6.871	81725	155922	0.020	0.034 #
4) b-BHC	6.605f	6.942	20283	177044	0.013	0.090 #
5) Heptachlor	6.894	0.000	34008	0	0.008	N.D. #
6) d-BHC	6.742	7.191	45473	107566	0.073	0.094 #
7) Aldrin	7.151	7.509	47325	20446	0.012	0.005 #
8) Heptachlo...	7.624	7.943	62143	9736	0.017	0.002 #
9) trans-Chl...	7.689	8.105	96914	132335	0.026	0.033 #
10) cis-Chlor...	7.801	8.217f	13754	102332	0.004	0.026 #
11) Endosulfa...	7.903	8.243	9880	118040	0.003	0.033 #
12) 4,4'-DDE	7.857	8.295	17904	130527	0.006	0.086 #
13) Dieldrin	8.058	8.444	14695	119494	0.004	0.048 #
14) Endrin	8.270f	0.000	49389	0	0.018	N.D. #
15) 4,4'-DDD	8.270	8.711	49389	382213	0.018	0.135 #
16) Endosulfa...	8.409	8.779f	274500	355308	0.093	0.109
17) 4,4'-DDT	8.500f	0.000	96808	0	0.071	N.D. #
18) Endrin Al...	8.703	9.063	123974	1651901	BelowCal	0.294
19) Endosulfa...	9.009	0.000	156994	0	0.053	N.D. #
20) Methoxychlor	0.000	9.412	0	598694	N.D.	0.376 #
21) Endrin Ke...	9.218	9.630	358539	1051100	0.097	0.269 #
23) Hexachlor...	0.000	3.691	0	45382	N.D.	BelowCal
24) Hexachlor...	6.048	6.426	612522	144226	0.183	0.036 #
25) Oxychlordan	7.528	7.879	12690	32377	0.004	0.009 #

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
 Data File : ECD8-10262034.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 26 Oct 2020 21:04  
 Operator : MJB  
 Sample : 0J26061-CCB3  
 Misc : A20J148  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 28 11:26:02 2020  
 Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 2uL  
 Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
 Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
26)	2,4'-DDE	7.596	8.105f	9243	132335	0.004	0.055 #
27)	trans-Non...	7.787	8.144	20408	94207	0.006	0.024 #
28)	2,4'-DDD	7.957f	8.444	11954	119494	0.006	BelowCal #
29)	2,4'-DDT	8.144	0.000	9509	0	0.004	N.D. #
30)	cis-Nonac...	8.270	8.711	49389	382213	0.013	0.089 #
31)	Mirex	8.949	9.630	186538	1051100	BelowCal	0.101
32)	Chlordane...	7.731	8.105	13941	132335	0.034	0.272 #
33)	Chlordane...	7.816	8.217	8643	102332	0.021	0.247 #
34)	Chlordane...	8.374	8.852	326161	916477	2.529	6.776 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.801	8.444	13754	119494	0.925	3.144 #
37)	Toxaphene...	8.119f	8.779	46515	355308	1.412	7.537 #
38)	Toxaphene...	8.409	8.852f	274500	916477	3.960	13.031 #
39)	Toxaphene...	8.656	8.852f	305998	916477	4.112	7.693 #
40)	Toxaphene...	8.897	9.072	192161	1644010	3.237	23.864 #
41)	Toxaphene...	8.961	9.438	192031	571036	2.852	7.626 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

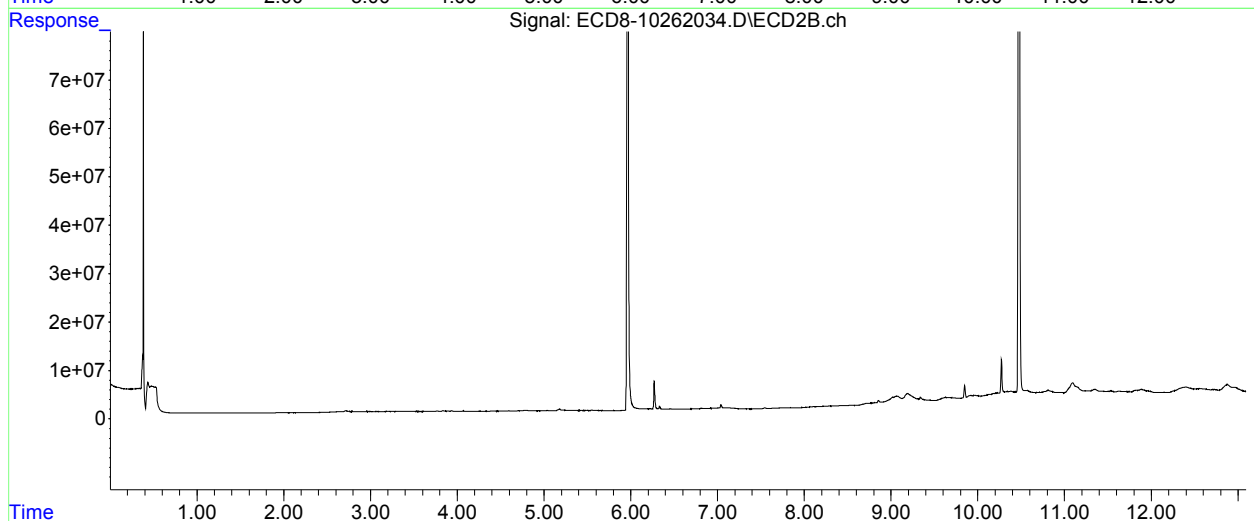
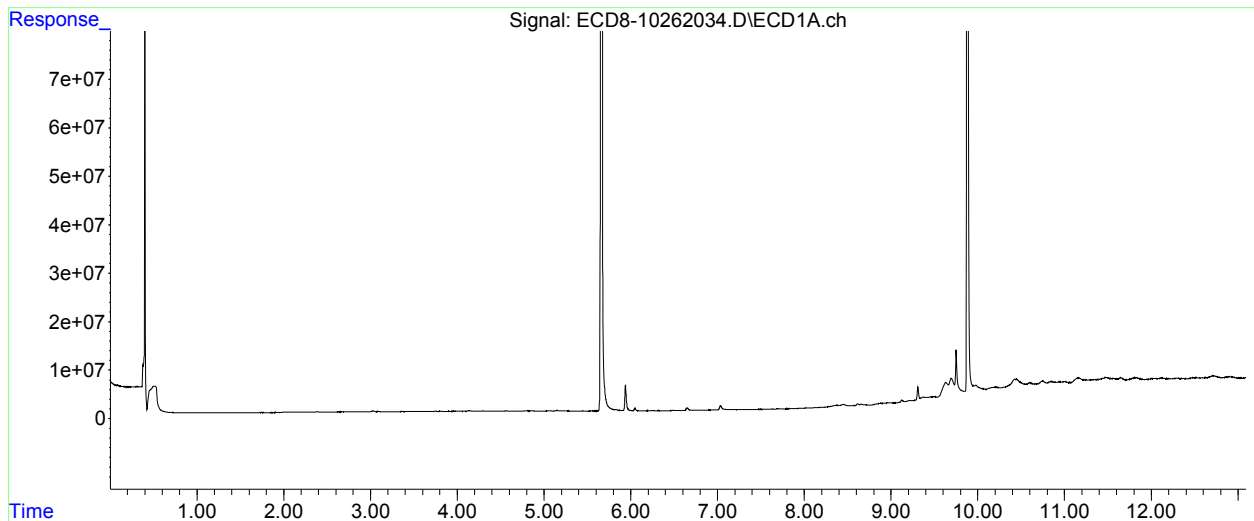
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : J:\data\2020-10\0J26061\  
Data File : ECD8-10262034.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 26 Oct 2020 21:04  
Operator : MJB  
Sample : 0J26061-CCB3  
Misc : A20J148  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 28 11:26:02 2020  
Quant Method : J:\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 2uL  
Signal #1 Phase : Rtx-CLPesticides Signal #2 Phase: Rtx-CLPesticides2  
Signal #1 Info : 30m X 0.32mm X 0. Signal #2 Info : 30m X 0.32mm X 0.25um





**Organochloride Pesticides by EPA 8081B  
Calibration Data**

Sequence 0J15061 (Cal ID A0J2107) DUALECD8R



# ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: **OJ15061**

Instrument: **DUALECD8**

Date: **10/15/20 16:48**

Calibration: **A0J2107**

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	OJ15061-BKD1	Water	QC	QC				A20H479
2	OJ15061-ICB1	Water	QC	QC				A20J148
3	OJ15061-CAL1	Water	QC	QC				A20J274
4	OJ15061-CAL2	Water	QC	QC				A20J275
5	OJ15061-CAL3	Water	QC	QC				A20H471
6	OJ15061-CAL4	Water	QC	QC				A20H472
7	OJ15061-CAL5	Water	QC	QC				A20H473
8	OJ15061-CAL6	Water	QC	QC				A20H474
9	OJ15061-CAL7	Water	QC	QC				A20H475
10	OJ15061-CAL8	Water	QC	QC				A20H476
11	OJ15061-CAL9	Water	QC	QC				A20H470
12	OJ15061-IBL1	Water	QC	QC				
13	OJ15061-ICV1	Water	QC	QC				A20I130
14	OJ15061-CALA	Water	QC	QC				A20J276
15	OJ15061-CALB	Water	QC	QC				A20I180
16	OJ15061-CALC	Water	QC	QC				A20I181
17	OJ15061-CALD	Water	QC	QC				A20I182
18	OJ15061-CALE	Water	QC	QC				A20I183
19	OJ15061-CALF	Water	QC	QC				A20I184
20	OJ15061-CALG	Water	QC	QC				A20I185
21	OJ15061-CALH	Water	QC	QC				A20I186
22	OJ15061-CALI	Water	QC	QC				A20I179
23	OJ15061-IBL2	Water	QC	QC				
24	OJ15061-ICV2	Water	QC	QC				A20I187
25	OJ15061-CALJ	Water	QC	QC				A20J277
26	OJ15061-CALK	Water	QC	QC				A20F057
27	OJ15061-CALL	Water	QC	QC				A20F058
28	OJ15061-CALM	Water	QC	QC				A20F059
29	OJ15061-CALN	Water	QC	QC				A20F060
30	OJ15061-CALO	Water	QC	QC				A20F061
31	OJ15061-CALP	Water	QC	QC				A20F056
32	OJ15061-IBL3	Water	QC	QC				
33	OJ15061-ICV3	Water	QC	QC				A20F062
34	OJ15061-CALQ	Water	QC	QC				A20J278
35	OJ15061-CALR	Water	QC	QC				A20F064
36	OJ15061-CALS	Water	QC	QC				A20F065
37	OJ15061-CALT	Water	QC	QC				A20F066
38	OJ15061-CALU	Water	QC	QC				A20D430
39	OJ15061-CALV	Water	QC	QC				A20D431
40	OJ15061-CALW	Water	QC	QC				A20F063
41	OJ15061-IBL4	Water	QC	QC				
42	OJ15061-ICV4	Water	QC	QC				A20F067

Data Entered By/Date: MJB 10/21/20

Comments: **ICAL**

Data Reviewed By/Date: MKZ 10/22/2020

10/21/2020 1:49:27PM

Page 1 of 1

Calibration Status Report DUALECD8

A0J2107

Method Path : C:\msdchem\1\methods\  
 Method File : ECD8\_QUANTPEST\_201015.M  
 Title : Instrument: DualECD8  
 Last Update : Tue Oct 20 17:18:04 2020  
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	10	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152037.D
2	2	50	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152038.D
3	3	100	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152039.D
4	4	200	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152040.D
5	5	500	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152041.D
6	6	1000	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152042.D
7	7	2000	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152043.D
8	8	-1	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152024.D
9	9	-1	0	C:\msdchem\1\data\2020-10\0J15061\ECD8-10152025.D

MJB 10/21/20

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Oct 20 17:17 2020	Oct 20 17:01 2020	16 Oct 2020 3:04
2	2	Oct 20 17:17 2020	Oct 20 17:01 2020	16 Oct 2020 3:20
3	3	Oct 20 17:17 2020	Oct 20 17:02 2020	16 Oct 2020 3:37
4	4	Oct 20 17:17 2020	Oct 20 17:02 2020	16 Oct 2020 3:53
5	5	Oct 20 17:17 2020	Oct 20 17:00 2020	16 Oct 2020 4:10
6	6	Oct 20 17:17 2020	Oct 20 17:03 2020	16 Oct 2020 4:26
7	7	Oct 20 17:18 2020	Oct 20 17:04 2020	16 Oct 2020 4:43
8	8	Oct 20 17:07 2020	Oct 20 16:52 2020	15 Oct 2020 23:29
9	9	Oct 20 17:07 2020	Oct 20 16:53 2020	15 Oct 2020 23:46

ECD8\_QUANTPEST\_201015.M Wed Oct 21 11:49:40 2020

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\  
 Method File : ECD8\_QUANTPEST\_201015.M  
 Title : Instrument: DualECD8  
 Last Update : Tue Oct 20 17:18:04 2020  
 Response Via : Initial Calibration

MJB 10/21/20

Calibration Files

1 =ECD8-10152037.D 2 =ECD8-10152038.D 3 =ECD8-10152039.D 4 =ECD8-10152040.D  
 5 =ECD8-10152041.D 6 =ECD8-10152042.D 7 =ECD8-10152043.D 8 =ECD8-10152024.D  
 9 =ECD8-10152025.D

Compound		1	2	3	4	5	6	7	8	9	Avg	%RSD	
1) S	TCMX (S)	3.929	3.675	3.487	3.391	3.379	3.464	3.426	3.539	3.536	3.536	E6	4.89
2)	a-BHC	4.657	4.586	4.532	4.550	4.595	4.804	4.756	4.929	4.995	4.712	E6	3.59
3)	g-BHC	4.143	3.907	3.847	3.714	3.900	4.013	3.994	4.324	4.379	4.025	E6	5.47
4)	b-BHC	1.634	1.541	1.510	1.394	1.425	1.520	1.551	1.730	1.744	1.561	E6	7.79
5)	Heptachlor	4.177	4.125	3.917	3.827	3.917	4.067	3.940	4.255	4.302	4.059	E6	4.12
6)	d-BHC	2.795	2.771	2.954	2.945	3.031	3.315	3.411	3.845	4.062	3.237	E6	14.27
7)	Aldrin	3.968	3.890	3.780	3.809	3.914	3.913	3.878	4.158	4.044	3.928	E6	2.96
8)	Heptachlor Exp...	3.969	3.780	3.556	3.570	3.539	3.584	3.514	3.701	3.691	3.656	E6	4.02
9)	trans-Chlordane	3.851	3.633	3.612	3.480	3.530	3.655	3.660	3.867	3.855	3.683	E6	3.90
10)	cis-Chlordane	3.887	3.711	3.473	3.474	3.541	3.551	3.515	3.725	3.722	3.622	E6	3.98
11)	Endosulfan I	3.613	3.421	3.423	3.279	3.283	3.359	3.295	3.460	3.479	3.401	E6	3.24
12)	4,4'-DDE	2.977	2.807	2.916	2.871	3.025	3.167	3.303	3.628	3.667	3.151	E6	10.13
13)	Dieldrin	3.781	3.677	3.609	3.617	3.755	3.745	3.744	3.958	3.926	3.757	E6	3.23
14)	Endrin	2.686	2.564	2.599	2.529	2.597	2.748	2.777	3.089	3.090	2.742	E6	7.79
15)	4,4'-DDD	2.676	2.562	2.554	2.463	2.561	2.715	2.682	3.139	3.124	2.720	E6	9.06
16)	Endosulfan II	3.065	2.929	2.888	2.764	2.851	2.908	2.847	3.121	3.136	2.945	E6	4.47
17)	4,4'-DDT	2.405	2.341	2.388	2.338	2.510	2.748	2.758	3.214	3.322	2.669	E6	14.07
18)	Endrin Aldehyde	4.347	3.908	3.679	2.956	2.788	2.743	2.686	2.824	2.918	3.205	E6	19.01
19)	Endosulfan Sul...	3.464	3.157	2.953	2.793	2.810	2.880	2.851	3.010	2.981	2.989	E6	7.07
20)	Methoxychlor	1.425	1.332	1.357	1.265	1.266	1.304	1.280	1.584	1.577	1.377	E6	9.16
21)	Endrin Ketone	4.138	3.789	3.637	3.605	3.561	3.534	3.560	3.682	3.775	3.698	E6	5.11
22) S	DCBP (S)	3.733	3.198	2.851	2.573	2.566	2.493	2.431	2.544	2.545	2.770	E6	15.58
23)	Hexachlorobuta...	4.478	3.775	3.564	3.292	3.139	3.152	3.362	3.207	3.605	3.508	E6	12.12
24)	Hexachlorobenzene	3.941	3.664	3.270	3.091	3.152	3.191	3.191	3.225	3.381	3.345	E6	8.37
25)	Oxychlordane	3.876	3.611	3.104	3.019	3.085	3.097	2.992	3.048	3.234	3.229	E6	9.49
26)	2,4'-DDE	2.403	2.331	1.951	1.915	2.017	2.089	2.067	2.101	2.269	2.127	E6	8.00
27)	trans-Nonachlor	4.327	3.911	3.429	3.358	3.448	3.520	3.381	3.432	3.713	3.613	E6	8.91

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\  
 Method File : ECD8\_QUANTPEST\_201015.M  
 Title : Instrument: DualECD8  
 Last Update : Tue Oct 20 17:18:04 2020

28)	2,4'-DDD	2.250	2.191	1.841	1.750	1.765	1.864	1.780	1.858	1.992	1.921	E6	9.63
29)	2,4'-DDT	2.443	2.264	1.871	1.917	1.970	2.100	2.163	2.207	2.377	2.146	E6	9.33
30)	cis-Nonachlor	4.723	4.531	3.734	3.574	3.715	3.743	3.679	3.782	4.012	3.944	E6	10.33
31)	Mirex	3.652	3.315	2.722	2.410	2.437	2.363	2.261	2.287	2.431	2.653	E6	18.69
32)	Chlordane (1)	4.102	3.908	4.010	4.192	4.181	3.973	4.471			4.120	E5	4.55
33)	Chlordane (2)	4.385	4.171	4.093	4.184	4.132	3.975	4.402			4.192	E5	3.68
34)	Chlordane (3)	1.338	1.251	1.247	1.269	1.283	1.267	1.373			1.290	E5	3.69
35)	Chlordane - AVE										0.000		-1.00
36)	Toxaphene (1)	1.447	1.453		1.464	1.471	1.501	1.591			1.488	E4	3.62
37)	Toxaphene (2)	3.307	3.297		3.266	3.224	3.273	3.396			3.294	E4	1.75
38)	Toxaphene (3)	6.884	6.809		6.691	6.899	6.946	7.366			6.932	E4	3.32
39)	Toxaphene (4)	8.066	7.198		7.170	7.061	7.446	7.711			7.442	E4	5.17
40)	Toxaphene (5)	5.431	5.740		5.792	5.920	6.188	6.547			5.936	E4	6.53
41)	Toxaphene (6)	6.815	6.489		6.505	6.607	6.724	7.255			6.733	E4	4.24
42)	Toxaphene - AVE										0.000		-1.00

Signal #2 Calibration Files

1	=ECD8-10152037.D	2	=ECD8-10152038.D	3	=ECD8-10152039.D
4	=ECD8-10152040.D	5	=ECD8-10152041.D	6	=ECD8-10152042.D

Compound	1	2	3	4	5	6	Avg	%RSD				
44) S TCMX (S) #2	4.189	3.997	3.764	3.697	3.769	3.901	4.046	4.257	4.387	4.001	E6	6.03
45) a-BHC #2	4.911	4.867	4.792	5.055	5.166	5.506	5.528	5.989	6.325	5.349	E6	9.96
46) g-BHC #2	4.456	4.265	4.241	4.263	4.505	4.729	4.849	5.069	5.477	4.650	E6	9.09
47) b-BHC #2	2.131	1.995	1.872	1.765	1.780	1.847	1.973	2.111	2.136	1.957	E6	7.57
48) Heptachlor #2	4.532	4.335	4.178	4.145	4.411	4.568	4.704	5.004	5.316	4.577	E6	8.38
49) d-BHC #2	3.632	3.593	3.761	3.803	4.091	4.383	4.542	5.076	5.413	4.255	E6	15.36
50) Aldrin #2	3.971	3.922	3.903	3.883	4.111	4.370	4.568	4.769	4.926	4.269	E6	9.43
51) Heptachlor Exp...	4.068	3.912	3.751	3.674	3.849	3.972	4.021	4.427	4.469	4.016	E6	6.85
52) trans-Chlordan...	3.939	3.717	3.598	3.626	3.762	3.918	4.125	4.494	4.644	3.980	E6	9.39
53) cis-Chlordane #2	3.981	3.697	3.562	3.564	3.727	3.812	3.910	4.216	4.448	3.880	E6	7.67
54) Endosulfan I #2	3.638	3.425	3.225	3.278	3.429	3.631	3.654	3.951	4.136	3.596	E6	8.34
55) 4,4'-DDE #2	3.178	3.084	3.234	3.173	3.369	3.700	3.914	4.401	4.661	3.635	E6	15.93
56) Dieldrin #2	3.808	3.654	3.603	3.754	3.868	4.154	4.116	4.598	4.823	4.042	E6	10.53
57) Endrin #2	2.483	2.522	2.483	2.477	2.497	2.830	2.946	3.459	3.586	2.809	E6	15.66

Response Factor Report DUALECD8

Method Path : C:\msdchem\1\methods\  
 Method File : ECD8\_QUANTPEST\_201015.M  
 Title : Instrument: DualECD8  
 Last Update : Tue Oct 20 17:18:04 2020

58)	4,4'-DDD #2	2.921	2.805	2.727	2.746	2.944	3.074	3.264	3.619	3.927	3.114	E6	13.37
59)	Endosulfan II #2	3.312	3.081	2.977	2.893	3.012	3.167	3.309	3.668	3.885	3.256	E6	10.18
60)	4,4'-DDT #2	2.456	2.448	2.433	2.551	2.696	3.041	3.168	3.737	4.032	2.951	E6	20.17
61)	Endrin Aldehyd...	4.392	3.815	3.590	3.014	2.948	2.931	2.921	3.193	3.421	3.358	E6	14.98
62)	Endosulfan Sul...	3.729	3.259	3.134	2.994	3.045	3.149	3.257	3.619	3.719	3.323	E6	8.71
63)	Methoxychlor #2	1.544	1.490	1.459	1.335	1.410	1.512	1.501	1.811	1.863	1.547	E6	11.37
64)	Endrin Ketone #2		4.169	3.597	3.529	3.656	3.736	3.865	4.180	4.518	3.906	E6	8.92
65) S	DCBP (S) #2	2.822	2.587	2.396	2.257	2.222	2.250	2.249	2.423	2.569	2.419	E6	8.47
66)	Hexachlorobuta...	5.014	4.324	4.053	3.787	3.617	3.772	4.198	4.034	4.737	4.171	E6	11.06
67)	Hexachlorobenz...	4.698	4.209	3.719	3.569	3.607	3.764	3.869	4.032	4.353	3.980	E6	9.51
68)	Oxychlorthane #2	4.122	3.743	3.313	3.122	3.320	3.387	3.406	3.517	3.747	3.520	E6	8.62
69)	2,4'-DDE #2	2.610	2.508	2.192	2.163	2.214	2.396	2.356	2.561	2.839	2.427	E6	9.25
70)	trans-Nonachlo...	4.656	4.195	3.581	3.491	3.571	3.802	3.773	4.052	4.365	3.943	E6	10.16
71)	2,4'-DDD #2	2.638	2.546	2.065	1.988	2.044	2.135	2.156	2.226	2.489	2.254	E6	10.68
72)	2,4'-DDT #2	2.711	2.395	1.994	2.023	2.091	2.321	2.406	2.573	2.835	2.372	E6	12.63
73)	cis-Nonachlor #2	4.948	4.588	3.815	3.779	3.915	4.131	4.168	4.351	4.807	4.278	E6	9.98
74)	Mirex #2	3.883	3.436	2.702	2.432	2.447	2.433	2.469	2.545	2.691	2.782	E6	18.69
75)	Chlordane (1) #2	4.426	4.438	4.652	4.796	5.103	4.901	5.785			4.871	E5	9.66
76)	Chlordane (2) #2	4.119	3.694	3.945	4.056	4.155	4.277	4.734			4.140	E5	7.74
77)	Chlordane (3) #2	1.424	1.230	1.254	1.289	1.375	1.385	1.511			1.353	E5	7.42
78)	Chlordane - AV...										0.000		-1.00
79)	Toxaphene (1) #2	3.990	3.890		3.616	3.622	3.704	3.982			3.801	E4	4.59
80)	Toxaphene (2) #2	4.640	4.607		4.470	4.549	4.784	5.237			4.714	E4	5.86
81)	Toxaphene (3) #2	7.542	6.785		6.549	6.755	7.009	7.559			7.033	E4	6.06
82)	Toxaphene (4) #2	1.350	1.134		1.076	1.108	1.201	1.279			1.191	E5	8.92
83)	Toxaphene (5) #2	7.023	6.526		6.423	6.708	6.980	7.674			6.889	E4	6.57
84)	Toxaphene (6) #2	7.799	7.048		6.995	7.324	7.597	8.166			7.488	E4	6.07
85)	Toxaphene - AV...										0.000		-1.00

No 100pt used for TOX. Wrong standard viald

(#) = Out of Range

MKZ 10/22/2020

## Compound List Report DUALECD8

Method Path : C:\msdchem\1\methods\  
 Method File : ECD8\_QUANTPEST\_201015.M  
 Title : Instrument: DualECD8  
 Last Update : Tue Oct 20 17:18:04 2020  
 Response Via : Initial Calibration

Total Cpnds : 85

MJB 10/21/20

PK#	Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S TCMX (S)	5.683	1.000	A	H	R
2	a-BHC	6.234	1.000	A	H	R
3	g-BHC	6.520	1.000	A	H	R
4	b-BHC	6.601	1.000	A	H	R
5	Heptachlor	6.919	1.000	A	H	R
6	d-BHC	6.754	1.000	• Q	H	R
7	Aldrin	7.162	1.000	A	H	R
8	Heptachlor Expoxide	7.631	1.000	A	H	R
9	trans-Chlordane	7.723	1.000	A	H	R
10	cis-Chlordane	7.821	1.000	A	H	R
11	Endosulfan I	7.925	1.000	A	H	R
12	4,4'-DDE	7.872	1.000	A	H	R
13	Dieldrin	8.098	1.000	A	H	R
14	Endrin	8.268	1.000	A	H	R
15	4,4'-DDD	8.303	1.000	A	H	R
16	Endosulfan II	8.429	1.000	A	H	R
17	4,4'-DDT	8.497	1.000	• Q	H	R
18	Endrin Aldehyde	8.724	1.000	• Q	H	R
19	Endosulfan Sulfate	9.030	1.000	A	H	R
20	Methoxychlor	8.831	1.000	A	H	R
21	Endrin Ketone	9.233	1.000	A	H	R
22	S DCBP (S)	9.902	1.000	• Q	H	R
23	Hexachlorobutadiene	3.474	1.000	• Q	H	R
24	Hexachlorobenzene	6.069	1.000	A	H	R
25	Oxychlordane	7.553	1.000	A	H	R
26	2,4'-DDE	7.620	1.000	A	H	R
27	trans-Nonachlor	7.807	1.000	A	H	R
28	2,4'-DDD	8.000	1.000	A	H	R
29	2,4'-DDT	8.180	1.000	A	H	R
30	cis-Nonachlor	8.285	1.000	A	H	R
31	Mirex	8.960	1.000	• Q	H	R
32	Chlordane (1)	7.723	1.000	A	H	R
33	Chlordane (2)	7.818	1.000	A	H	R
34	Chlordane (3)	8.378	1.000	A	H	R
35	Chlordane - AVE	0.205	1.000	A	H	R
36	Toxaphene (1)	7.803	1.000	A	H	R
37	Toxaphene (2)	8.099	1.000	A	H	R
38	Toxaphene (3)	8.419	1.000	A	H	R
39	Toxaphene (4)	8.657	1.000	A	H	R
40	Toxaphene (5)	8.893	1.000	A	H	R
41	Toxaphene (6)	8.962	1.000	A	H	R
42	Toxaphene - AVE	0.205	1.000	A	H	R
43	Signal #2	0.205	1.000	A	H	R
44	S TCMX (S) #2	5.990	1.000	A	H	R
45	a-BHC #2	6.585	1.000	A	H	R
46	g-BHC #2	6.900	1.000	A	H	R
47	b-BHC #2	6.966	1.000	A	H	R
48	Heptachlor #2	7.273	1.000	A	H	R
49	d-BHC #2	7.214	1.000	• Q	H	R
50	Aldrin #2	7.536	1.000	A	H	R
51	Heptachlor Expoxide #2	7.971	1.000	A	H	R
52	trans-Chlordane #2	8.110	1.000	A	H	R
53	cis-Chlordane #2	8.217	1.000	A	H	R
54	Endosulfan I #2	8.267	1.000	A	H	R
55	4,4'-DDE #2	8.319	1.000	• Q	H	R
56	Dieldrin #2	8.464	1.000	• Q	H	R

57	Endrin #2	8.688	1.000	• Q	H	R
58	4,4'-DDD #2	8.732	1.000	• Q	H	R
59	Endosulfan II #2	8.835	1.000	A	H	R
60	4,4'-DDT #2	8.956	1.000	• Q	H	R
61	Endrin Aldehyde #2	9.070	1.000	• Q	H	R
62	Endosulfan Sulfate #2	9.264	1.000	A	H	R
63	Methoxychlor #2	9.423	1.000	• Q	H	R
64	Endrin Ketone #2	9.655	1.000	A	H	R
65	S DCBP (S) #2	10.505	1.000	A	H	R
66	Hexachlorobutadiene #2	3.702	1.000	• Q	H	R
67	Hexachlorobenzene #2	6.453	1.000	A	H	R
68	Oxychlorthane #2	7.901	1.000	A	H	R
69	2,4'-DDE #2	8.096	1.000	A	H	R
70	trans-Nonachlor #2	8.176	1.000	A	H	R
71	2,4'-DDD #2	8.467	1.000	• Q	H	R
72	2,4'-DDT #2	8.689	1.000	• Q	H	R
73	cis-Nonachlor #2	8.734	1.000	A	H	R
74	Mirex #2	9.643	1.000	• Q	H	R
75	Chlordane (1) #2	8.109	1.000	A	H	R
76	Chlordane (2) #2	8.216	1.000	A	H	R
77	Chlordane (3) #2	8.871	1.000	A	H	R
78	Chlordane - AVE #2	0.205	1.000	A	H	R
79	Toxaphene (1) #2	8.443	1.000	A	H	R
80	Toxaphene (2) #2	8.791	1.000	A	H	R
81	Toxaphene (3) #2	8.824	1.000	A	H	R
82	Toxaphene (4) #2	8.891	1.000	A	H	R
83	Toxaphene (5) #2	9.069	1.000	A	H	R
84	Toxaphene (6) #2	9.442	1.000	A	H	R
85	Toxaphene - AVE #2	0.205	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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ECD8\_QUANTPEST\_201015.M Wed Oct 21 14:32:49 2020



Calibration Report DUALECD8

Method Path : C:\msdchem\1\methods\  
 Method File : ECD8\_QUANTPEST\_201015.M  
 Title : Instrument: DualECD8  
 Last Update : Tue Oct 20 17:18:04 2020  
 Response Via : Initial Calibration

MJB 10/21/20

Calibration Files

1 =ECD8-10152037 2 =ECD8-10152038 3 =ECD8-10152039 4 =ECD8-10152040 5 =ECD8-10152041  
 6 =ECD8-10152042 7 =ECD8-10152043 8 =ECD8-10152024 9 =ECD8-10152025

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	3.5364 e6	-----	0.0489
2)	a-BHC	Avg	-----	4.7115 e6	-----	0.0359
3)	g-BHC	Avg	-----	4.0246 e6	-----	0.0547
4)	b-BHC	Avg	-----	1.5609 e6	-----	0.0779
5)	Heptachlor	Avg	-----	4.0585 e6	-----	0.0412
6)	d-BHC	Quad	-1.7797 e5	3.0667 e6	5.6377 e3	0.9983
7)	Aldrin	Avg	-----	3.9280 e6	-----	0.0296
8)	Heptachlor Epoxide	Avg	-----	3.6560 e6	-----	0.0402
9)	trans-Chlordane	Avg	-----	3.6827 e6	-----	0.0390
10)	cis-Chlordane	Avg	-----	3.6222 e6	-----	0.0398
11)	Endosulfan I	Avg	-----	3.4013 e6	-----	0.0324
12)	4,4'-DDE	Avg	-----	3.1511 e6	-----	0.1013
13)	Dieldrin	Avg	-----	3.7568 e6	-----	0.0323
14)	Endrin	Avg	-----	2.7423 e6	-----	0.0779
15)	4,4'-DDD	Avg	-----	2.7197 e6	-----	0.0906
16)	Endosulfan II	Avg	-----	2.9454 e6	-----	0.0447
17)	4,4'-DDT	Quad	-7.9968 e4	2.4923 e6	4.8342 e3	0.9972
18)	Endrin Aldehyde	Quad	8.5273 e5	2.8378 e6	1.0492 e1	0.9934
19)	Endosulfan Sulfate	Avg	-----	2.9886 e6	-----	0.0707
20)	Methoxychlor	Avg	-----	1.3766 e6	-----	0.0916
21)	Endrin Ketone	Avg	-----	3.6979 e6	-----	0.0511
22) S	DCBP (S)	Quad	6.4883 e5	2.4782 e6	2.8953 e2	0.9995
23)	Hexachlorobutadiene	Quad	6.8398 e5	3.1180 e6	2.1905 e3	0.9992
24)	Hexachlorobenzene	Avg	-----	3.3451 e6	-----	0.0837
25)	Oxychlordane	Avg	-----	3.2295 e6	-----	0.0949
26)	2,4'-DDE	Avg	-----	2.1269 e6	-----	0.0800
27)	trans-Nonachlor	Avg	-----	3.6133 e6	-----	0.0891
28)	2,4'-DDD	Avg	-----	1.9214 e6	-----	0.0963
29)	2,4'-DDT	Avg	-----	2.1460 e6	-----	0.0933
30)	cis-Nonachlor	Avg	-----	3.9436 e6	-----	0.1033
31)	Mirex	Quad	7.2269 e5	2.3348 e6	1.6530 e2	0.9969
32)	Chlordane (1)	Avg	-----	4.1195 e5	-----	0.0455
33)	Chlordane (2)	Avg	-----	4.1916 e5	-----	0.0368
34)	Chlordane (3)	Avg	-----	1.2896 e5	-----	0.0369
35)	Chlordane - AVE	Avg	-----	-----	-----	0.0000
36)	Toxaphene (1)	Avg	-----	1.4877 e4	-----	0.0362
37)	Toxaphene (2)	Avg	-----	3.2939 e4	-----	0.0175
38)	Toxaphene (3)	Avg	-----	6.9323 e4	-----	0.0332
39)	Toxaphene (4)	Avg	-----	7.4421 e4	-----	0.0517
40)	Toxaphene (5)	Avg	-----	5.9363 e4	-----	0.0653
41)	Toxaphene (6)	Avg	-----	6.7325 e4	-----	0.0424
42)	Toxaphene - AVE	Avg	-----	-----	-----	0.0000

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S	TCMX (S)	Avg	-----	4.0009 e6	-----	0.0603
2)	a-BHC	Avg	-----	5.3488 e6	-----	0.0996
3)	g-BHC	Avg	-----	4.6505 e6	-----	0.0909
4)	b-BHC	Avg	-----	1.9566 e6	-----	0.0757
5)	Heptachlor	Avg	-----	4.5769 e6	-----	0.0838
6)	d-BHC	Quad	-2.6996 e5	4.0288 e6	7.8258 e3	0.9979
7)	Aldrin	Avg	-----	4.2693 e6	-----	0.0943

8)	Heptachlor Expoxide	Avg	-----	4.0159	e6	-----	0.0685	
9)	trans-Chlordane	Avg	-----	3.9802	e6	-----	0.0939	
10)	cis-Chlordane	Avg	-----	3.8797	e6	-----	0.0767	
11)	Endosulfan I	Avg	-----	3.5964	e6	-----	0.0834	
12)	4,4'-DDE	Quad	-1.6090	e5	3.3826	e6	7.3549 e3	0.9972
13)	Dieldrin	Quad	-6.3021	e4	3.8221	e6	5.6503 e3	0.9984
14)	Endrin	Quad	-6.8102	e4	2.5827	e6	5.8509 e3	0.9969
15)	4,4'-DDD	Quad	-4.6773	e3	2.8564	e6	5.9397 e3	0.9984
16)	Endosulfan II	Avg	-----	3.2560	e6	-----	0.1018	
17)	4,4'-DDT	Quad	-1.7019	e5	2.6920	e6	7.6065 e3	0.9964
18)	Endrin Aldehyde	Quad	7.9510	e5	2.9110	e6	2.4027 e3	0.9977
19)	Endosulfan Sulfate	Avg	-----	3.3227	e6	-----	0.0871	
20)	Methoxychlor	Quad	7.1656	e4	1.4011	e6	2.6390 e3	0.9975
21)	Endrin Ketone	Avg	-----	3.9062	e6	-----	0.0892	
22) S	DCBP (S)	Avg	-----	2.4193	e6	-----	0.0847	
23)	Hexachlorobutadiene	Quad	6.8796	e5	3.6391	e6	5.3879 e3	0.9987
24)	Hexachlorobenzene	Avg	-----	3.9800	e6	-----	0.0951	
25)	Oxychlorane	Avg	-----	3.5197	e6	-----	0.0862	
26)	2,4'-DDE	Avg	-----	2.4266	e6	-----	0.0925	
27)	trans-Nonachlor	Avg	-----	3.9429	e6	-----	0.1016	
28)	2,4'-DDD	Quad	3.5346	e5	1.9931	e6	2.4870 e3	0.9976
29)	2,4'-DDT	Quad	3.0727	e5	2.0490	e6	4.3633 e3	0.9965
30)	cis-Nonachlor	Avg	-----	4.2779	e6	-----	0.0998	
31)	Mirex	Quad	8.1350	e5	2.3587	e6	1.6715 e3	0.9975
32)	Chlordane (1)	Avg	-----	4.8714	e5	-----	0.0966	
33)	Chlordane (2)	Avg	-----	4.1400	e5	-----	0.0774	
34)	Chlordane (3)	Avg	-----	1.3525	e5	-----	0.0742	
35)	Chlordane - AVE	Avg	-----	-----	-----	-----	0.0000	
36)	Toxaphene (1)	Avg	-----	3.8006	e4	-----	0.0459	
37)	Toxaphene (2)	Avg	-----	4.7144	e4	-----	0.0586	
38)	Toxaphene (3)	Avg	-----	7.0333	e4	-----	0.0606	
39)	Toxaphene (4)	Avg	-----	1.1913	e5	-----	0.0892	
40)	Toxaphene (5)	Avg	-----	6.8890	e4	-----	0.0657	
41)	Toxaphene (6)	Avg	-----	7.4882	e4	-----	0.0607	
42)	Toxaphene - AVE	Avg	-----	-----	-----	-----	0.0000	

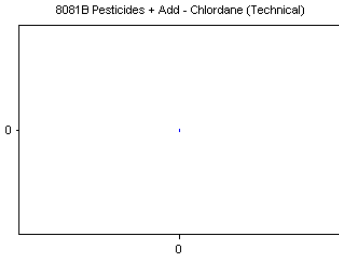
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ECD8\_QUANTPEST\_201015.M Wed Oct 21 14:34:34 2020

# Element Calibration Review Sheet

Calibration ID: **A0J2107**Instrument: **DUALECD8**Calibration Date: **10/21/2020**Analysis: **8081B Pesticides + Add**Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

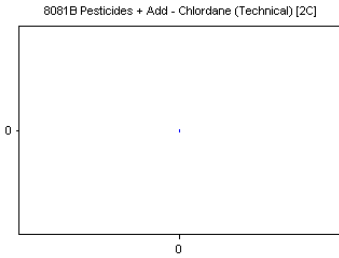
## Chlordane (Technical)

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	40	0	0.000	0.00
0J15061-CALK	50	0	0.000	0.00
0J15061-CALL	100	0	0.000	0.00
0J15061-CALM	200	0	0.000	0.00
0J15061-CALN	500	0	0.000	0.00
0J15061-CALO	1000	0	0.000	0.00
0J15061-CALP	2000	0	0.000	0.00

AVE RF **0.000**      RF RSD **0.00**      AVE RT **0.00**

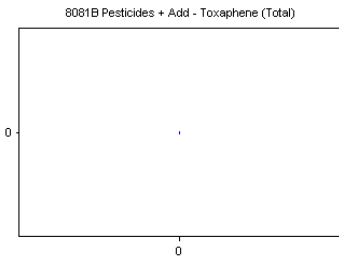
## Chlordane (Technical) [2C]

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALJ	40	0	0.000	0.00
0J15061-CALK	50	0	0.000	0.00
0J15061-CALL	100	0	0.000	0.00
0J15061-CALM	200	0	0.000	0.00
0J15061-CALN	500	0	0.000	0.00
0J15061-CALO	1000	0	0.000	0.00
0J15061-CALP	2000	0	0.000	0.00

AVE RF **0.000**      RF RSD **0.00**      AVE RT **0.00**

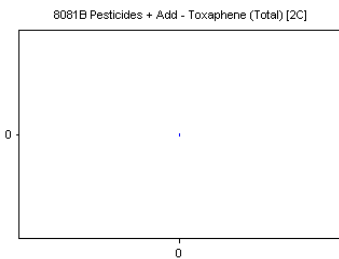
## Toxaphene (Total)

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	40	0	0.000	0.00
0J15061-CALR	50	0	0.000	0.00
0J15061-CALT	200	0	0.000	0.00
0J15061-CALU	500	0	0.000	0.00
0J15061-CALV	1000	0	0.000	0.00
0J15061-CALW	2000	0	0.000	0.00

AVE RF **0.000**      RF RSD **0.00**      AVE RT **0.00**

## Toxaphene (Total) [2C]

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Response Factor	RT
0J15061-CALQ	40	0	0.000	0.00
0J15061-CALR	50	0	0.000	0.00
0J15061-CALT	200	0	0.000	0.00
0J15061-CALU	500	0	0.000	0.00
0J15061-CALV	1000	0	0.000	0.00
0J15061-CALW	2000	0	0.000	0.00

AVE RF **0.000**      RF RSD **0.00**      AVE RT **0.00**

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

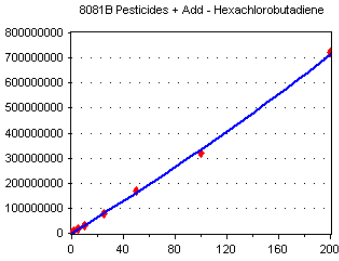
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Hexachlorobutadiene

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

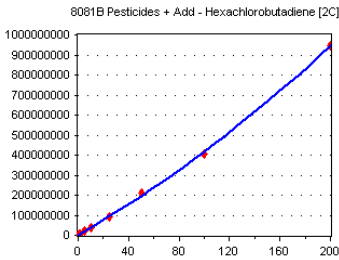


Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	2239091	4478182.000	3.48
OJ15061-CALB	1	3774672	3774672.000	3.47
OJ15061-CALC	2	7127380	3563690.000	3.47
OJ15061-CALD	5	1.645845E+07	3291690.000	3.47
OJ15061-CALE	10	3.138778E+07	3138778.000	3.48
OJ15061-CALF	25	7.880228E+07	3152091.000	3.48
OJ15061-CALG	50	1.681213E+08	3362426.000	3.47
OJ15061-CALH	100	3.20746E+08	3207460.000	3.48
OJ15061-CALI	200	7.21089E+08	3605445.000	3.48

**AVE RF 3508270.000 RF RSD 12.12 AVE RT 3.47**

### Hexachlorobutadiene [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

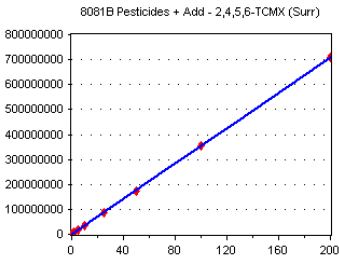


Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	2507236	5014472.000	3.70
OJ15061-CALB	1	4324213	4324213.000	3.70
OJ15061-CALC	2	8105552	4052776.000	3.70
OJ15061-CALD	5	1.893344E+07	3786688.000	3.70
OJ15061-CALE	10	3.617304E+07	3617304.000	3.70
OJ15061-CALF	25	9.430966E+07	3772387.000	3.70
OJ15061-CALG	50	2.099194E+08	4198388.000	3.70
OJ15061-CALH	100	4.034392E+08	4034392.000	3.70
OJ15061-CALI	200	9.473851E+08	4736926.000	3.70

**AVE RF 4170838.000 RF RSD 11.06 AVE RT 3.70**

### 2,4,5,6-TCMX (Surr)

Curve Fit: **AVERAGE RF**

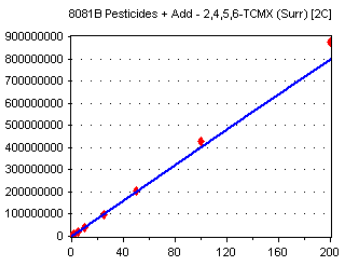


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1964465	3928930.000	5.68
OJ15061-CAL2	1	3675375	3675375.000	5.68
OJ15061-CAL3	2	6974987	3487494.000	5.68
OJ15061-CAL4	5	1.695668E+07	3391336.000	5.68
OJ15061-CAL5	10	3.37858E+07	3378580.000	5.68
OJ15061-CAL6	25	8.661238E+07	3464495.000	5.68
OJ15061-CAL7	50	1.713189E+08	3426378.000	5.68
OJ15061-CAL8	100	3.53942E+08	3539420.000	5.68
OJ15061-CAL9	200	7.071313E+08	3535657.000	5.68

**AVE RF 3536407.000 RF RSD 4.89 AVE RT 5.68**

### 2,4,5,6-TCMX (Surr) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	2094674	4189348.000	5.99
OJ15061-CAL2	1	3996914	3996914.000	5.99
OJ15061-CAL3	2	7527988	3763994.000	5.99
OJ15061-CAL4	5	1.848406E+07	3696812.000	5.99
OJ15061-CAL5	10	3.769119E+07	3769119.000	5.99
OJ15061-CAL6	25	9.75182E+07	3900728.000	5.99
OJ15061-CAL7	50	2.023044E+08	4046088.000	5.99
OJ15061-CAL8	100	4.257161E+08	4257161.000	5.99
OJ15061-CAL9	200	8.774996E+08	4387498.000	5.99

**AVE RF 4000851.000 RF RSD 6.03 AVE RT 5.99**

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

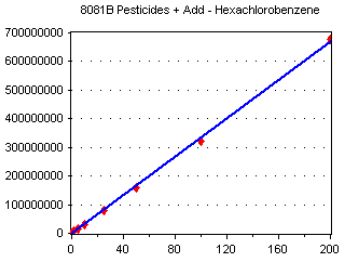
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Hexachlorobenzene

Curve Fit: **AVERAGE RF**

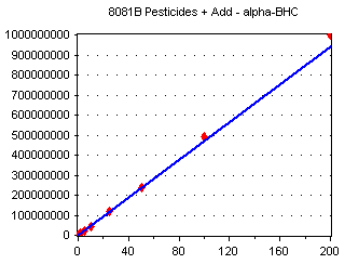


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1970418	3940836.000	6.07
OJ15061-CALB	1	3664461	3664461.000	6.07
OJ15061-CALC	2	6539006	3269503.000	6.07
OJ15061-CALD	5	1.54531E+07	3090620.000	6.07
OJ15061-CALE	10	3.151554E+07	3151554.000	6.07
OJ15061-CALF	25	7.977943E+07	3191177.000	6.07
OJ15061-CALG	50	1.59558E+08	3191160.000	6.07
OJ15061-CALH	100	3.225443E+08	3225443.000	6.07
OJ15061-CALI	200	6.761908E+08	3380954.000	6.07

**AVE RF** 3345079.000 **RF RSD** 8.37 **AVE RT** 6.07

### alpha-BHC

Curve Fit: **AVERAGE RF**

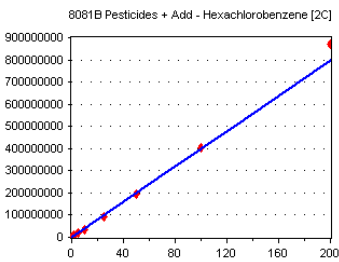


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	2328682	4657364.000	6.23
OJ15061-CAL2	1	4586018	4586018.000	6.23
OJ15061-CAL3	2	9063124	4531562.000	6.23
OJ15061-CAL4	5	2.275184E+07	4550368.000	6.23
OJ15061-CAL5	10	4.594524E+07	4594524.000	6.23
OJ15061-CAL6	25	1.20089E+08	4803560.000	6.23
OJ15061-CAL7	50	2.37807E+08	4756140.000	6.23
OJ15061-CAL8	100	4.928958E+08	4928958.000	6.23
OJ15061-CAL9	200	9.990428E+08	4995214.000	6.23

**AVE RF** 4711523.000 **RF RSD** 3.59 **AVE RT** 6.23

### Hexachlorobenzene [2C]

Curve Fit: **AVERAGE RF**

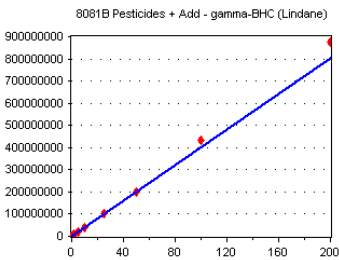


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	2349149	4698298.000	6.45
OJ15061-CALB	1	4208870	4208870.000	6.45
OJ15061-CALC	2	7438773	3719387.000	6.45
OJ15061-CALD	5	1.784273E+07	3568546.000	6.45
OJ15061-CALE	10	3.60655E+07	3606550.000	6.45
OJ15061-CALF	25	9.410941E+07	3764376.000	6.45
OJ15061-CALG	50	1.934439E+08	3868878.000	6.45
OJ15061-CALH	100	4.032065E+08	4032065.000	6.45
OJ15061-CALI	200	8.706274E+08	4353137.000	6.45

**AVE RF** 3980012.000 **RF RSD** 9.51 **AVE RT** 6.45

### gamma-BHC (Lindane)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	2071350	4142700.000	6.52
OJ15061-CAL2	1	3906552	3906552.000	6.52
OJ15061-CAL3	2	7694107	3847054.000	6.52
OJ15061-CAL4	5	1.857194E+07	3714388.000	6.52
OJ15061-CAL5	10	3.900259E+07	3900259.000	6.52
OJ15061-CAL6	25	1.003227E+08	4012908.000	6.52
OJ15061-CAL7	50	1.997039E+08	3994078.000	6.52
OJ15061-CAL8	100	4.324135E+08	4324135.000	6.52
OJ15061-CAL9	200	8.758193E+08	4379097.000	6.52

**AVE RF** 4024575.000 **RF RSD** 5.47 **AVE RT** 6.52

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

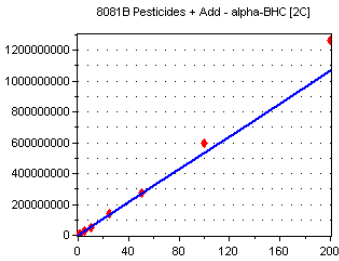
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### alpha-BHC [2C]

Curve Fit: **AVERAGE RF**

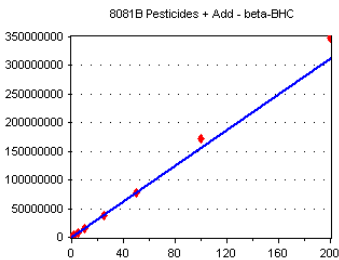


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	2455359	4910718.000	6.59
OJ15061-CAL2	1	4866992	4866992.000	6.59
OJ15061-CAL3	2	9584271	4792136.000	6.59
OJ15061-CAL4	5	2.527692E+07	5055384.000	6.59
OJ15061-CAL5	10	5.166158E+07	5166158.000	6.58
OJ15061-CAL6	25	1.376585E+08	5506340.000	6.59
OJ15061-CAL7	50	2.764066E+08	5528132.000	6.59
OJ15061-CAL8	100	5.989129E+08	5989129.000	6.59
OJ15061-CAL9	200	1.26492E+09	6324601.000	6.59

**AVE RF** 5348843.000 **RF RSD** 9.96 **AVE RT** 6.59

### beta-BHC

Curve Fit: **AVERAGE RF**

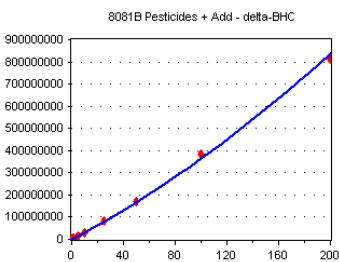


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	816885	1633770.000	6.61
OJ15061-CAL2	1	1540562	1540562.000	6.61
OJ15061-CAL3	2	3020188	1510094.000	6.60
OJ15061-CAL4	5	6967859	1393572.000	6.61
OJ15061-CAL5	10	1.425147E+07	1425147.000	6.60
OJ15061-CAL6	25	3.800356E+07	1520142.000	6.60
OJ15061-CAL7	50	7.755115E+07	1551023.000	6.60
OJ15061-CAL8	100	1.729914E+08	1729914.000	6.60
OJ15061-CAL9	200	3.487023E+08	1743512.000	6.60

**AVE RF** 1560860.000 **RF RSD** 7.79 **AVE RT** 6.60

### delta-BHC

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

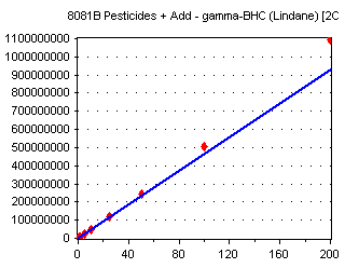


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1397611	2795222.000	6.76
OJ15061-CAL2	1	2771438	2771438.000	6.76
OJ15061-CAL3	2	5908930	2954465.000	6.76
OJ15061-CAL4	5	1.472316E+07	2944632.000	6.76
OJ15061-CAL5	10	3.031383E+07	3031383.000	6.76
OJ15061-CAL6	25	8.286446E+07	3314579.000	6.76
OJ15061-CAL7	50	1.705399E+08	3410798.000	6.76
OJ15061-CAL8	100	3.845178E+08	3845178.000	6.75
OJ15061-CAL9	200	8.123649E+08	4061825.000	6.75

**AVE RF** 3236613.000 **RF RSD** 14.27 **AVE RT** 6.76

### gamma-BHC (Lindane) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	2228225	4456450.000	6.90
OJ15061-CAL2	1	4265430	4265430.000	6.90
OJ15061-CAL3	2	8481393	4240697.000	6.90
OJ15061-CAL4	5	2.131671E+07	4263342.000	6.90
OJ15061-CAL5	10	4.504887E+07	4504887.000	6.90
OJ15061-CAL6	25	1.182134E+08	4728536.000	6.90
OJ15061-CAL7	50	2.424384E+08	4848768.000	6.90
OJ15061-CAL8	100	5.069257E+08	5069257.000	6.90
OJ15061-CAL9	200	1.095357E+09	5476786.000	6.90

**AVE RF** 4650461.000 **RF RSD** 9.09 **AVE RT** 6.90

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

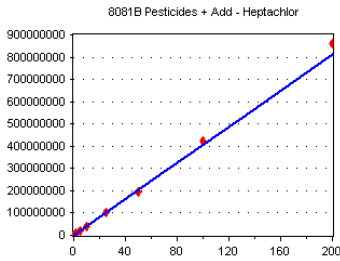
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Heptachlor

Curve Fit: **AVERAGE RF**

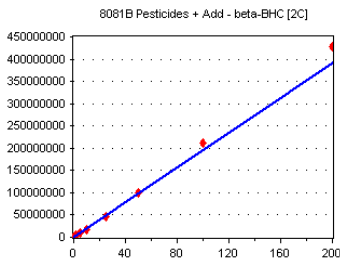


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	2088406	4176812.000	6.92
OJ15061-CAL2	1	4125267	4125267.000	6.92
OJ15061-CAL3	2	7834074	3917037.000	6.92
OJ15061-CAL4	5	1.913594E+07	3827188.000	6.92
OJ15061-CAL5	10	3.917312E+07	3917312.000	6.92
OJ15061-CAL6	25	1.016753E+08	4067012.000	6.92
OJ15061-CAL7	50	1.969759E+08	3939518.000	6.92
OJ15061-CAL8	100	4.254733E+08	4254733.000	6.92
OJ15061-CAL9	200	8.603669E+08	4301835.000	6.92

**AVE RF** 4058524.000 **RF RSD** 4.12 **AVE RT** 6.92

### beta-BHC [2C]

Curve Fit: **AVERAGE RF**

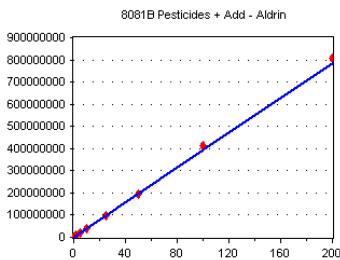


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1065650	2131300.000	6.97
OJ15061-CAL2	1	1994989	1994989.000	6.97
OJ15061-CAL3	2	3743280	1871640.000	6.97
OJ15061-CAL4	5	8823163	1764633.000	6.97
OJ15061-CAL5	10	1.779961E+07	1779961.000	6.97
OJ15061-CAL6	25	4.617194E+07	1846878.000	6.97
OJ15061-CAL7	50	9.866661E+07	1973332.000	6.97
OJ15061-CAL8	100	2.110867E+08	2110867.000	6.97
OJ15061-CAL9	200	4.272057E+08	2136029.000	6.97

**AVE RF** 1956625.000 **RF RSD** 7.57 **AVE RT** 6.97

### Aldrin

Curve Fit: **AVERAGE RF**

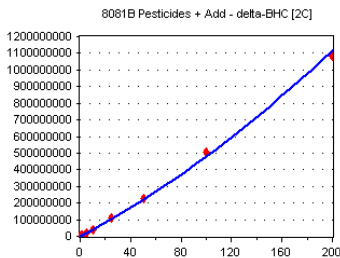


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1983865	3967730.000	7.16
OJ15061-CAL2	1	3890178	3890178.000	7.16
OJ15061-CAL3	2	7559480	3779740.000	7.16
OJ15061-CAL4	5	1.904309E+07	3808618.000	7.16
OJ15061-CAL5	10	3.913536E+07	3913536.000	7.16
OJ15061-CAL6	25	9.781781E+07	3912712.000	7.16
OJ15061-CAL7	50	1.938817E+08	3877634.000	7.16
OJ15061-CAL8	100	4.157632E+08	4157632.000	7.16
OJ15061-CAL9	200	8.087636E+08	4043818.000	7.16

**AVE RF** 3927955.000 **RF RSD** 2.96 **AVE RT** 7.16

### delta-BHC [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1816056	3632112.000	7.22
OJ15061-CAL2	1	3592643	3592643.000	7.22
OJ15061-CAL3	2	7521244	3760622.000	7.22
OJ15061-CAL4	5	1.901458E+07	3802916.000	7.22
OJ15061-CAL5	10	4.09124E+07	4091240.000	7.22
OJ15061-CAL6	25	1.095706E+08	4382824.000	7.22
OJ15061-CAL7	50	2.270836E+08	4541672.000	7.22
OJ15061-CAL8	100	5.076161E+08	5076161.000	7.21
OJ15061-CAL9	200	1.082558E+09	5412790.000	7.21

**AVE RF** 4254776.000 **RF RSD** 15.36 **AVE RT** 7.22

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

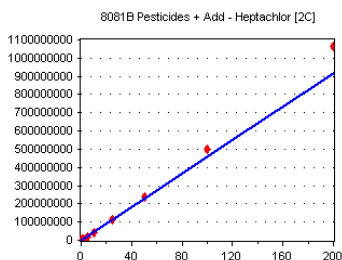
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Heptachlor [2C]

Curve Fit: **AVERAGE RF**

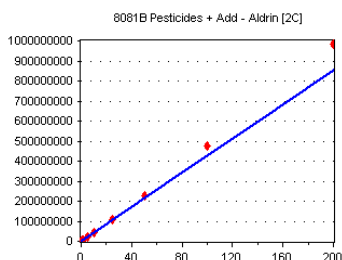


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	2266099	4532198.000	7.27
OJ15061-CAL2	1	4334823	4334823.000	7.27
OJ15061-CAL3	2	8356845	4178423.000	7.27
OJ15061-CAL4	5	2.072483E+07	4144966.000	7.27
OJ15061-CAL5	10	4.410809E+07	4410809.000	7.27
OJ15061-CAL6	25	1.141971E+08	4567884.000	7.27
OJ15061-CAL7	50	2.351985E+08	4703970.000	7.27
OJ15061-CAL8	100	5.003502E+08	5003502.000	7.27
OJ15061-CAL9	200	1.063146E+09	5315730.000	7.27

**AVE RF** 4576923.000 **RF RSD** 8.38 **AVE RT** 7.27

### Aldrin [2C]

Curve Fit: **AVERAGE RF**

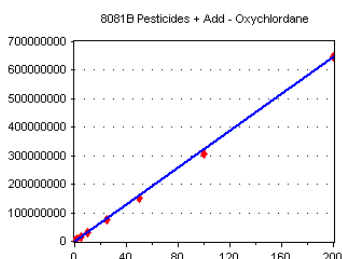


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1985635	3971270.000	7.54
OJ15061-CAL2	1	3922163	3922163.000	7.54
OJ15061-CAL3	2	7805224	3902612.000	7.54
OJ15061-CAL4	5	1.941717E+07	3883434.000	7.54
OJ15061-CAL5	10	4.110689E+07	4110689.000	7.54
OJ15061-CAL6	25	1.092582E+08	4370328.000	7.54
OJ15061-CAL7	50	2.284027E+08	4568054.000	7.54
OJ15061-CAL8	100	4.769311E+08	4769311.000	7.54
OJ15061-CAL9	200	9.851053E+08	4925527.000	7.54

**AVE RF** 4269265.000 **RF RSD** 9.43 **AVE RT** 7.54

### Oxychlorthane

Curve Fit: **AVERAGE RF**

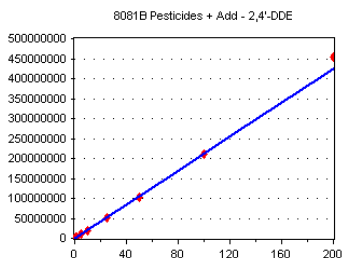


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1937874	3875748.000	7.56
OJ15061-CALB	1	3610716	3610716.000	7.56
OJ15061-CALC	2	6208420	3104210.000	7.55
OJ15061-CALD	5	1.509498E+07	3018996.000	7.55
OJ15061-CALE	10	3.084646E+07	3084646.000	7.55
OJ15061-CALF	25	7.7426E+07	3097040.000	7.55
OJ15061-CALG	50	1.495844E+08	2991688.000	7.55
OJ15061-CALH	100	3.047858E+08	3047858.000	7.55
OJ15061-CALI	200	6.468673E+08	3234337.000	7.55

**AVE RF** 3229471.000 **RF RSD** 9.49 **AVE RT** 7.55

### 2,4'-DDE

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1201503	2403006.000	7.63
OJ15061-CALB	1	2330761	2330761.000	7.63
OJ15061-CALC	2	3901157	1950579.000	7.62
OJ15061-CALD	5	9576140	1915228.000	7.62
OJ15061-CALE	10	2.016633E+07	2016633.000	7.62
OJ15061-CALF	25	5.222027E+07	2088811.000	7.62
OJ15061-CALG	50	1.033665E+08	2067330.000	7.62
OJ15061-CALH	100	2.101327E+08	2101327.000	7.62
OJ15061-CALI	200	4.537173E+08	2268587.000	7.62

**AVE RF** 2126918.000 **RF RSD** 8.00 **AVE RT** 7.62



## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

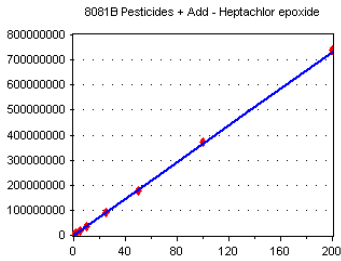
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Heptachlor epoxide

Curve Fit: **AVERAGE RF**

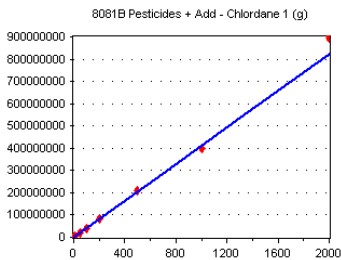


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1984641	3969282.000	7.63
OJ15061-CAL2	1	3780245	3780245.000	7.63
OJ15061-CAL3	2	7111174	3555587.000	7.63
OJ15061-CAL4	5	1.784996E+07	3569992.000	7.63
OJ15061-CAL5	10	3.539392E+07	3539392.000	7.63
OJ15061-CAL6	25	8.959974E+07	3583990.000	7.63
OJ15061-CAL7	50	1.757036E+08	3514072.000	7.63
OJ15061-CAL8	100	3.700916E+08	3700916.000	7.63
OJ15061-CAL9	200	7.381378E+08	3690689.000	7.63

**AVE RF** 3656018.000 **RF RSD** 4.02 **AVE RT** 7.63

### Chlordane 1 (g)

Curve Fit: **AVERAGE RF**

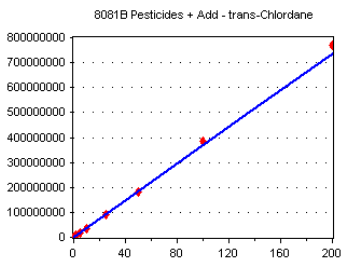


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALJ	10	4101623	410162.300	7.73
OJ15061-CALK	50	1.953892E+07	390778.400	7.73
OJ15061-CALL	100	4.010211E+07	401021.100	7.73
OJ15061-CALM	200	8.383957E+07	419197.800	7.72
OJ15061-CALN	500	2.090437E+08	418087.400	7.72
OJ15061-CALO	1000	3.973248E+08	397324.800	7.72
OJ15061-CALP	2000	8.941953E+08	447097.700	7.72

**AVE RF** 411952.800 **RF RSD** 4.55 **AVE RT** 7.72

### trans-Chlordane

Curve Fit: **AVERAGE RF**

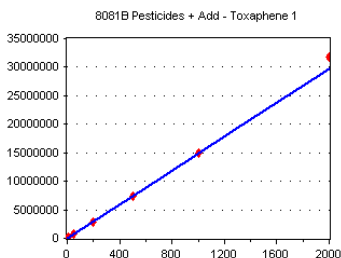


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1925594	3851188.000	7.73
OJ15061-CAL2	1	3633454	3633454.000	7.73
OJ15061-CAL3	2	7224345	3612173.000	7.73
OJ15061-CAL4	5	1.739994E+07	3479988.000	7.73
OJ15061-CAL5	10	3.529808E+07	3529808.000	7.73
OJ15061-CAL6	25	9.1366E+07	3654640.000	7.72
OJ15061-CAL7	50	1.830196E+08	3660392.000	7.72
OJ15061-CAL8	100	3.867119E+08	3867119.000	7.72
OJ15061-CAL9	200	7.710731E+08	3855366.000	7.72

**AVE RF** 3682681.000 **RF RSD** 3.90 **AVE RT** 7.72

### Toxaphene 1

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	144669	14466.900	7.81
OJ15061-CALR	50	726337	14526.740	7.81
OJ15061-CALT	200	2928701	14643.500	7.80
OJ15061-CALU	500	7355899	14711.800	7.80
OJ15061-CALV	1000	1.500622E+07	15006.220	7.80
OJ15061-CALW	2000	3.181092E+07	15905.460	7.80

**AVE RF** 14876.770 **RF RSD** 3.62 **AVE RT** 7.80

# Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

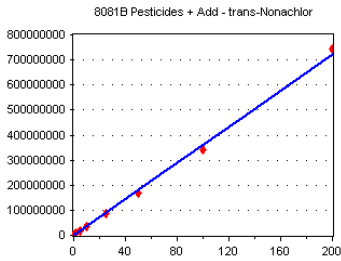
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

## trans-Nonachlor

Curve Fit: **AVERAGE RF**

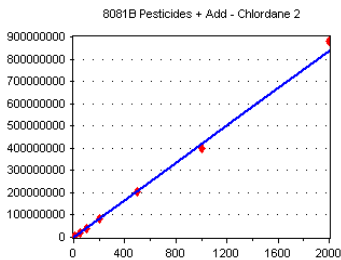


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	2163375	4326750.000	7.81
OJ15061-CALB	1	3910682	3910682.000	7.81
OJ15061-CALC	2	6858041	3429021.000	7.81
OJ15061-CALD	5	1.678872E+07	3357744.000	7.81
OJ15061-CALE	10	3.448256E+07	3448256.000	7.81
OJ15061-CALF	25	8.800594E+07	3520238.000	7.81
OJ15061-CALG	50	1.690689E+08	3381378.000	7.81
OJ15061-CALH	100	3.431954E+08	3431954.000	7.81
OJ15061-CALI	200	7.426764E+08	3713382.000	7.81

**AVE RF 3613267.000 RF RSD 8.91 AVE RT 7.81**

## Chlordane 2

Curve Fit: **AVERAGE RF**

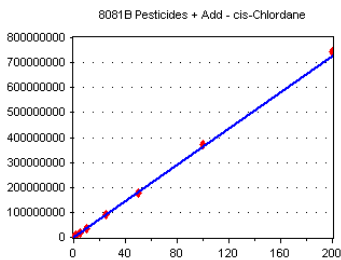


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALJ	10	4385167	438516.700	7.82
OJ15061-CALK	50	2.085474E+07	417094.800	7.82
OJ15061-CALL	100	4.092532E+07	409253.200	7.82
OJ15061-CALM	200	8.368453E+07	418422.600	7.82
OJ15061-CALN	500	2.065909E+08	413181.800	7.82
OJ15061-CALO	1000	3.974641E+08	397464.100	7.82
OJ15061-CALP	2000	8.803723E+08	440186.200	7.82

**AVE RF 419159.900 RF RSD 3.68 AVE RT 7.82**

## cis-Chlordane

Curve Fit: **AVERAGE RF**

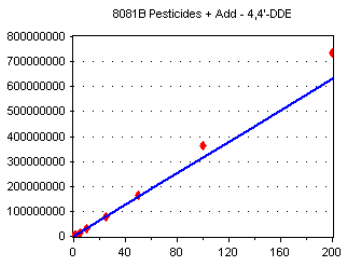


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1943677	3887354.000	7.82
OJ15061-CAL2	1	3710813	3710813.000	7.82
OJ15061-CAL3	2	6946216	3473108.000	7.82
OJ15061-CAL4	5	1.73708E+07	3474160.000	7.82
OJ15061-CAL5	10	3.541141E+07	3541141.000	7.82
OJ15061-CAL6	25	8.87825E+07	3551300.000	7.82
OJ15061-CAL7	50	1.757618E+08	3515236.000	7.82
OJ15061-CAL8	100	3.724809E+08	3724809.000	7.82
OJ15061-CAL9	200	7.444557E+08	3722279.000	7.82

**AVE RF 3622244.000 RF RSD 3.98 AVE RT 7.82**

## 4,4'-DDE

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1488674	2977348.000	7.88
OJ15061-CAL2	1	2806594	2806594.000	7.88
OJ15061-CAL3	2	5832058	2916029.000	7.88
OJ15061-CAL4	5	1.435337E+07	2870674.000	7.88
OJ15061-CAL5	10	3.025077E+07	3025077.000	7.88
OJ15061-CAL6	25	7.917964E+07	3167186.000	7.87
OJ15061-CAL7	50	1.651261E+08	3302522.000	7.87
OJ15061-CAL8	100	3.627906E+08	3627906.000	7.87
OJ15061-CAL9	200	7.333128E+08	3666564.000	7.87

**AVE RF 3151100.000 RF RSD 10.13 AVE RT 7.87**

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

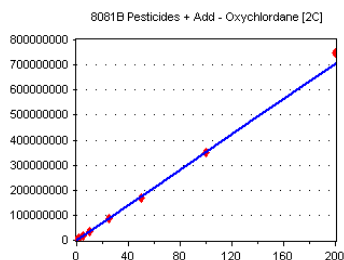
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Oxychlorthane [2C]

Curve Fit: **AVERAGE RF**

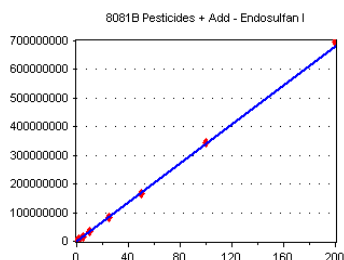


Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	2061148	4122296.000	7.90
OJ15061-CALB	1	3742926	3742926.000	7.90
OJ15061-CALC	2	6625326	3312663.000	7.90
OJ15061-CALD	5	1.561015E+07	3122030.000	7.90
OJ15061-CALE	10	3.319638E+07	3319638.000	7.90
OJ15061-CALF	25	8.46767E+07	3387068.000	7.90
OJ15061-CALG	50	1.703064E+08	3406128.000	7.90
OJ15061-CALH	100	3.516792E+08	3516792.000	7.90
OJ15061-CALI	200	7.494646E+08	3747323.000	7.90

**AVE RF** 3519652.000 **RF RSD** 8.62 **AVE RT** 7.90

### Endosulfan I

Curve Fit: **AVERAGE RF**

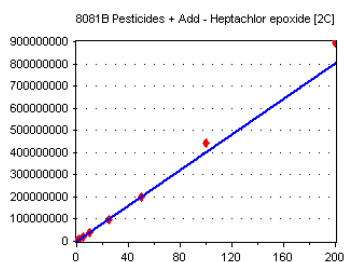


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1806599	3613198.000	7.93
OJ15061-CAL2	1	3420833	3420833.000	7.93
OJ15061-CAL3	2	6845706	3422853.000	7.93
OJ15061-CAL4	5	1.639313E+07	3278626.000	7.93
OJ15061-CAL5	10	3.283096E+07	3283096.000	7.93
OJ15061-CAL6	25	8.396403E+07	3358561.000	7.93
OJ15061-CAL7	50	1.647621E+08	3295242.000	7.93
OJ15061-CAL8	100	3.45966E+08	3459660.000	7.92
OJ15061-CAL9	200	6.958669E+08	3479335.000	7.92

**AVE RF** 3401267.000 **RF RSD** 3.24 **AVE RT** 7.93

### Heptachlor epoxide [2C]

Curve Fit: **AVERAGE RF**

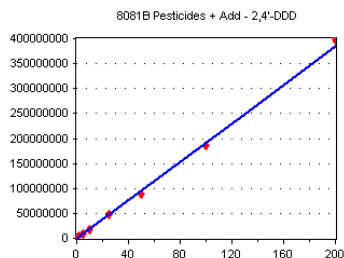


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	2034040	4068080.000	7.97
OJ15061-CAL2	1	3912347	3912347.000	7.97
OJ15061-CAL3	2	7501012	3750506.000	7.97
OJ15061-CAL4	5	1.836929E+07	3673858.000	7.97
OJ15061-CAL5	10	3.8488E+07	3848800.000	7.97
OJ15061-CAL6	25	9.929978E+07	3971991.000	7.97
OJ15061-CAL7	50	2.010489E+08	4020978.000	7.97
OJ15061-CAL8	100	4.427145E+08	4427145.000	7.97
OJ15061-CAL9	200	8.938726E+08	4469363.000	7.97

**AVE RF** 4015896.000 **RF RSD** 6.85 **AVE RT** 7.97

### 2,4'-DDD

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	1125210	2250420.000	8.01
OJ15061-CALB	1	2191428	2191428.000	8.00
OJ15061-CALC	2	3682349	1841175.000	8.00
OJ15061-CALD	5	8751372	1750274.000	8.00
OJ15061-CALE	10	1.764873E+07	1764873.000	8.00
OJ15061-CALF	25	4.659062E+07	1863625.000	8.00
OJ15061-CALG	50	8.90077E+07	1780154.000	8.00
OJ15061-CALH	100	1.858274E+08	1858274.000	8.00
OJ15061-CALI	200	3.984332E+08	1992166.000	8.00

**AVE RF** 1921377.000 **RF RSD** 9.63 **AVE RT** 8.00

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

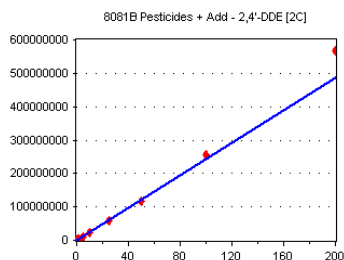
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### 2,4'-DDE [2C]

Curve Fit: **AVERAGE RF**

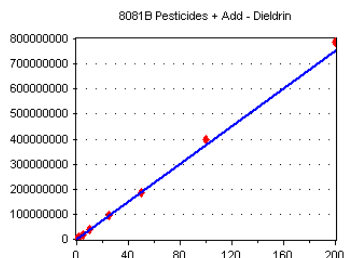


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1304771	2609542.000	8.10
OJ15061-CALB	1	2507932	2507932.000	8.10
OJ15061-CALC	2	4384687	2192344.000	8.10
OJ15061-CALD	5	1.081621E+07	2163242.000	8.10
OJ15061-CALE	10	2.21422E+07	2214220.000	8.10
OJ15061-CALF	25	5.990982E+07	2396393.000	8.10
OJ15061-CALG	50	1.177977E+08	2355954.000	8.10
OJ15061-CALH	100	2.561226E+08	2561226.000	8.10
OJ15061-CALI	200	5.677623E+08	2838812.000	8.10

**AVE RF** 2426629.000 **RF RSD** 9.25 **AVE RT** 8.10

### Dieldrin

Curve Fit: **AVERAGE RF**

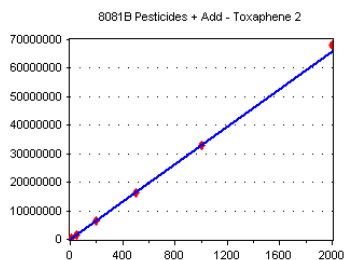


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1890452	3780904.000	8.10
OJ15061-CAL2	1	3676591	3676591.000	8.10
OJ15061-CAL3	2	7217877	3608939.000	8.10
OJ15061-CAL4	5	1.808407E+07	3616814.000	8.10
OJ15061-CAL5	10	3.754823E+07	3754823.000	8.10
OJ15061-CAL6	25	9.363528E+07	3745411.000	8.10
OJ15061-CAL7	50	1.872163E+08	3744326.000	8.10
OJ15061-CAL8	100	3.958193E+08	3958193.000	8.10
OJ15061-CAL9	200	7.851004E+08	3925502.000	8.10

**AVE RF** 3756834.000 **RF RSD** 3.23 **AVE RT** 8.10

### Toxaphene 2

Curve Fit: **AVERAGE RF**

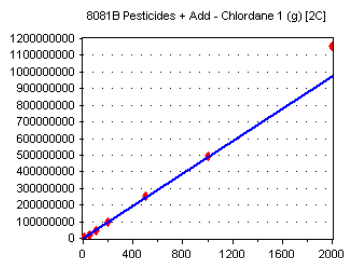


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	330702	33070.200	8.10
OJ15061-CALR	50	1648417	32968.340	8.10
OJ15061-CALT	200	6531155	32655.780	8.10
OJ15061-CALU	500	1.612189E+07	32243.780	8.10
OJ15061-CALV	1000	3.273216E+07	32732.160	8.10
OJ15061-CALW	2000	6.792348E+07	33961.740	8.10

**AVE RF** 32938.670 **RF RSD** 1.75 **AVE RT** 8.10

### Chlordane 1 (g) [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALJ	10	4425582	442558.200	8.11
OJ15061-CALK	50	2.219057E+07	443811.400	8.11
OJ15061-CALL	100	4.651615E+07	465161.500	8.11
OJ15061-CALM	200	9.591928E+07	479596.400	8.11
OJ15061-CALN	500	2.551435E+08	510287.000	8.11
OJ15061-CALO	1000	4.900782E+08	490078.200	8.11
OJ15061-CALP	2000	1.156982E+09	578491.000	8.11

**AVE RF** 487140.500 **RF RSD** 9.66 **AVE RT** 8.11

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

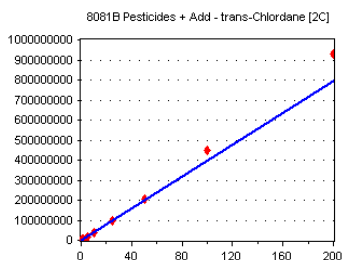
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### trans-Chlordane [2C]

Curve Fit: **AVERAGE RF**

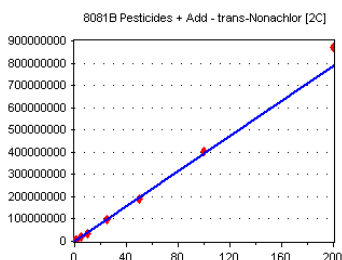


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1969558	3939116.000	8.11
OJ15061-CAL2	1	3716881	3716881.000	8.11
OJ15061-CAL3	2	7196150	3598075.000	8.11
OJ15061-CAL4	5	1.812804E+07	3625608.000	8.11
OJ15061-CAL5	10	3.762406E+07	3762406.000	8.11
OJ15061-CAL6	25	9.795059E+07	3918024.000	8.11
OJ15061-CAL7	50	2.062266E+08	4124532.000	8.11
OJ15061-CAL8	100	4.493511E+08	4493511.000	8.11
OJ15061-CAL9	200	9.287353E+08	4643677.000	8.11

**AVE RF 3980203.000 RF RSD 9.39 AVE RT 8.11**

### trans-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

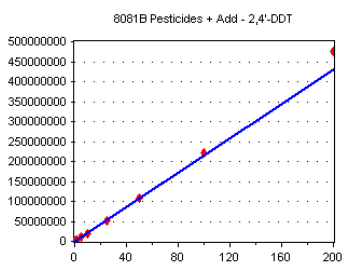


Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	2327996	4655992.000	8.18
OJ15061-CALB	1	4195390	4195390.000	8.18
OJ15061-CALC	2	7161689	3580845.000	8.18
OJ15061-CALD	5	1.745361E+07	3490722.000	8.18
OJ15061-CALE	10	3.571247E+07	3571247.000	8.18
OJ15061-CALF	25	9.505416E+07	3820167.000	8.18
OJ15061-CALG	50	1.88628E+08	3772560.000	8.18
OJ15061-CALH	100	4.051634E+08	4051634.000	8.18
OJ15061-CALI	200	8.730556E+08	4365278.000	8.18

**AVE RF 3942870.000 RF RSD 10.16 AVE RT 8.18**

### 2,4'-DDT

Curve Fit: **AVERAGE RF**

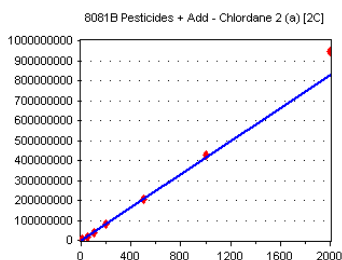


Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	1221609	2443218.000	8.19
OJ15061-CALB	1	2264292	2264292.000	8.18
OJ15061-CALC	2	3742080	1871040.000	8.18
OJ15061-CALD	5	9587017	1917403.000	8.18
OJ15061-CALE	10	1.970236E+07	1970236.000	8.18
OJ15061-CALF	25	5.249326E+07	2099731.000	8.18
OJ15061-CALG	50	1.081657E+08	2163314.000	8.18
OJ15061-CALH	100	2.207085E+08	2207085.000	8.18
OJ15061-CALI	200	4.754797E+08	2377399.000	8.18

**AVE RF 2145969.000 RF RSD 9.33 AVE RT 8.18**

### Chlordane 2 (a) [2C]

Curve Fit: **AVERAGE RF**



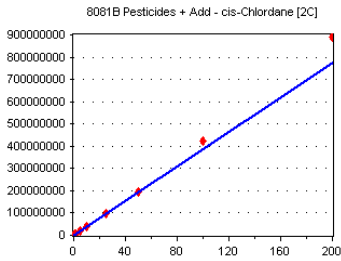
Standard	Concentration	Response	Factor	RT
OJ15061-CALJ	10	4119232	411923.200	8.22
OJ15061-CALK	50	1.846854E+07	369370.800	8.22
OJ15061-CALL	100	3.944657E+07	394465.700	8.22
OJ15061-CALM	200	8.111566E+07	405578.300	8.22
OJ15061-CALN	500	2.077707E+08	415541.400	8.22
OJ15061-CALO	1000	4.277424E+08	427742.400	8.22
OJ15061-CALP	2000	9.467857E+08	473392.900	8.22

**AVE RF 414002.100 RF RSD 7.74 AVE RT 8.22**

# Element Calibration Review Sheet

Calibration ID: **A0J2107**Instrument: **DUALECD8**Calibration Date: **10/21/2020**Analysis: **8081B Pesticides + Add**Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

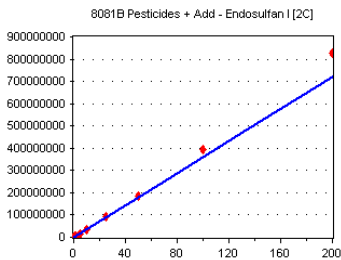
## cis-Chlordane [2C]

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1990595	3981190.000	8.22
OJ15061-CAL2	1	3697197	3697197.000	8.22
OJ15061-CAL3	2	7123870	3561935.000	8.22
OJ15061-CAL4	5	1.78216E+07	3564320.000	8.22
OJ15061-CAL5	10	3.726662E+07	3726662.000	8.22
OJ15061-CAL6	25	9.530894E+07	3812358.000	8.22
OJ15061-CAL7	50	1.954891E+08	3909782.000	8.22
OJ15061-CAL8	100	4.215527E+08	4215527.000	8.22
OJ15061-CAL9	200	8.89631E+08	4448155.000	8.22

**AVE RF** **3879681.000** **RF RSD** **7.67** **AVE RT** **8.22**

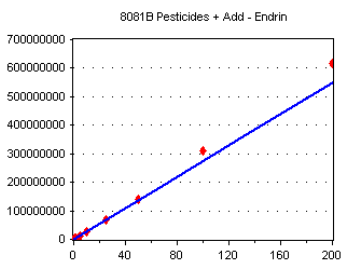
## Endosulfan I [2C]

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1819190	3638380.000	8.27
OJ15061-CAL2	1	3424701	3424701.000	8.27
OJ15061-CAL3	2	6450502	3225251.000	8.27
OJ15061-CAL4	5	1.638974E+07	3277948.000	8.27
OJ15061-CAL5	10	3.429129E+07	3429129.000	8.27
OJ15061-CAL6	25	9.076954E+07	3630782.000	8.27
OJ15061-CAL7	50	1.826947E+08	3653894.000	8.27
OJ15061-CAL8	100	3.951055E+08	3951055.000	8.27
OJ15061-CAL9	200	8.272511E+08	4136255.000	8.27

**AVE RF** **3596377.000** **RF RSD** **8.34** **AVE RT** **8.27**

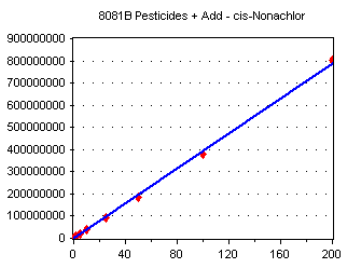
## Endrin

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1343181	2686362.000	8.27
OJ15061-CAL2	1	2564407	2564407.000	8.27
OJ15061-CAL3	2	5198958	2599479.000	8.27
OJ15061-CAL4	5	1.264388E+07	2528776.000	8.27
OJ15061-CAL5	10	2.597139E+07	2597139.000	8.27
OJ15061-CAL6	25	6.870141E+07	2748056.000	8.27
OJ15061-CAL7	50	1.388589E+08	2777178.000	8.27
OJ15061-CAL8	100	3.08941E+08	3089410.000	8.27
OJ15061-CAL9	200	6.180494E+08	3090247.000	8.27

**AVE RF** **2742339.000** **RF RSD** **7.79** **AVE RT** **8.27**

## cis-Nonachlor

Curve Fit: **AVERAGE RF**

Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	2361680	4723360.000	8.29
OJ15061-CALB	1	4530614	4530614.000	8.29
OJ15061-CALC	2	7468006	3734003.000	8.29
OJ15061-CALD	5	1.786908E+07	3573816.000	8.29
OJ15061-CALE	10	3.714766E+07	3714766.000	8.29
OJ15061-CALF	25	9.35754E+07	3743016.000	8.29
OJ15061-CALG	50	1.839414E+08	3678828.000	8.29
OJ15061-CALH	100	3.782405E+08	3782405.000	8.29
OJ15061-CALI	200	8.023116E+08	4011558.000	8.29

**AVE RF** **3943596.000** **RF RSD** **10.33** **AVE RT** **8.29**

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

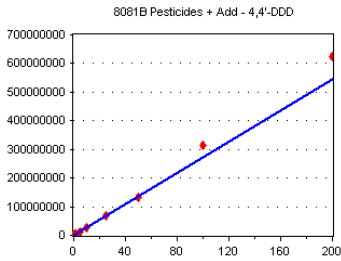
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### 4,4'-DDD

Curve Fit: **AVERAGE RF**

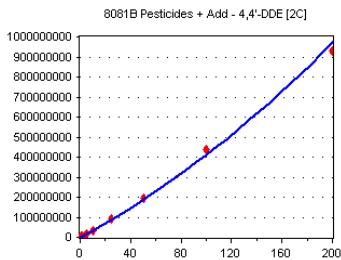


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1338233	2676466.000	8.31
OJ15061-CAL2	1	2561702	2561702.000	8.31
OJ15061-CAL3	2	5108732	2554366.000	8.31
OJ15061-CAL4	5	1.231717E+07	2463434.000	8.31
OJ15061-CAL5	10	2.560811E+07	2560811.000	8.31
OJ15061-CAL6	25	6.788429E+07	2715372.000	8.30
OJ15061-CAL7	50	1.340874E+08	2681748.000	8.30
OJ15061-CAL8	100	3.139188E+08	3139188.000	8.30
OJ15061-CAL9	200	6.247788E+08	3123894.000	8.30

**AVE RF** 2719664.000 **RF RSD** 9.06 **AVE RT** 8.30

### 4,4'-DDE [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

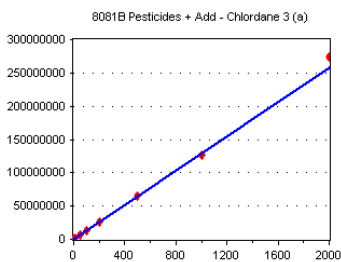


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1588759	3177518.000	8.32
OJ15061-CAL2	1	3083622	3083622.000	8.32
OJ15061-CAL3	2	6467389	3233695.000	8.32
OJ15061-CAL4	5	1.586625E+07	3173250.000	8.32
OJ15061-CAL5	10	3.36923E+07	3369230.000	8.32
OJ15061-CAL6	25	9.250154E+07	3700062.000	8.32
OJ15061-CAL7	50	1.957089E+08	3914178.000	8.32
OJ15061-CAL8	100	4.401254E+08	4401254.000	8.32
OJ15061-CAL9	200	9.322594E+08	4661297.000	8.32

**AVE RF** 3634901.000 **RF RSD** 15.93 **AVE RT** 8.32

### Chlordane 3 (a)

Curve Fit: **AVERAGE RF**

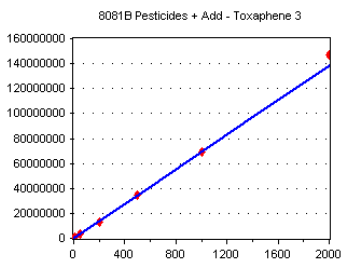


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALJ	10	1337616	133761.600	8.38
OJ15061-CALK	50	6256198	125124.000	8.38
OJ15061-CALL	100	1.246525E+07	124652.500	8.38
OJ15061-CALM	200	2.537232E+07	126861.600	8.38
OJ15061-CALN	500	6.413561E+07	128271.200	8.38
OJ15061-CALO	1000	1.267126E+08	126712.600	8.38
OJ15061-CALP	2000	2.746224E+08	137311.200	8.38

**AVE RF** 128956.400 **RF RSD** 3.69 **AVE RT** 8.38

### Toxaphene 3

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	688382	68838.200	8.42
OJ15061-CALR	50	3404622	68092.440	8.42
OJ15061-CALT	200	1.338193E+07	66909.650	8.42
OJ15061-CALU	500	3.449308E+07	68986.160	8.42
OJ15061-CALV	1000	6.94588E+07	69458.800	8.42
OJ15061-CALW	2000	1.473102E+08	73655.100	8.42

**AVE RF** 69323.390 **RF RSD** 3.32 **AVE RT** 8.42

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

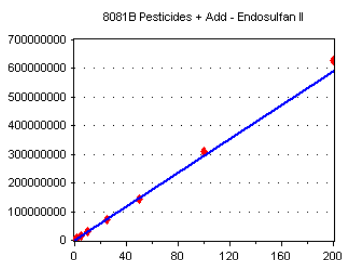
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Endosulfan II

Curve Fit: **AVERAGE RF**

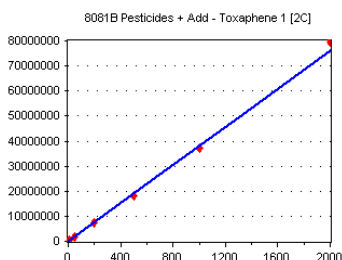


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1532660	3065320.000	8.44
OJ15061-CAL2	1	2928662	2928662.000	8.43
OJ15061-CAL3	2	5775620	2887810.000	8.43
OJ15061-CAL4	5	1.381775E+07	2763550.000	8.43
OJ15061-CAL5	10	2.851135E+07	2851135.000	8.43
OJ15061-CAL6	25	7.269449E+07	2907780.000	8.43
OJ15061-CAL7	50	1.423438E+08	2846876.000	8.43
OJ15061-CAL8	100	3.121496E+08	3121496.000	8.43
OJ15061-CAL9	200	6.272476E+08	3136238.000	8.43

**AVE RF** 2945430.000 **RF RSD** 4.47 **AVE RT** 8.43

### Toxaphene 1 [2C]

Curve Fit: **AVERAGE RF**

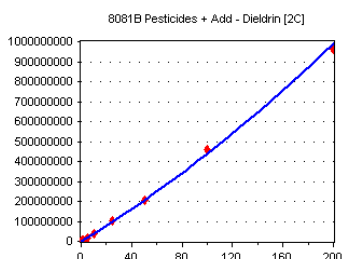


Standard	Concentration	Response	Factor	RT
OJ15061-CALQ	10	399011	39901.100	8.44
OJ15061-CALR	50	1944781	38895.620	8.44
OJ15061-CALT	200	7231910	36159.550	8.44
OJ15061-CALU	500	1.810779E+07	36215.580	8.44
OJ15061-CALV	1000	3.70442E+07	37044.200	8.44
OJ15061-CALW	2000	7.963459E+07	39817.300	8.44

**AVE RF** 38005.560 **RF RSD** 4.59 **AVE RT** 8.44

### Dieldrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

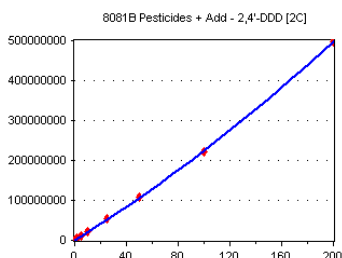


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1903893	3807786.000	8.47
OJ15061-CAL2	1	3654098	3654098.000	8.47
OJ15061-CAL3	2	7205936	3602968.000	8.47
OJ15061-CAL4	5	1.876898E+07	3753796.000	8.47
OJ15061-CAL5	10	3.867688E+07	3867688.000	8.47
OJ15061-CAL6	25	1.038569E+08	4154276.000	8.47
OJ15061-CAL7	50	2.057968E+08	4115936.000	8.47
OJ15061-CAL8	100	4.598063E+08	4598063.000	8.47
OJ15061-CAL9	200	9.646588E+08	4823294.000	8.47

**AVE RF** 4041989.000 **RF RSD** 10.53 **AVE RT** 8.47

### 2,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Factor	RT
OJ15061-CALA	0.5	1319106	2638212.000	8.47
OJ15061-CALB	1	2545735	2545735.000	8.47
OJ15061-CALC	2	4129327	2064664.000	8.47
OJ15061-CALD	5	9938801	1987760.000	8.47
OJ15061-CALE	10	2.043638E+07	2043638.000	8.47
OJ15061-CALF	25	5.33807E+07	2135228.000	8.47
OJ15061-CALG	50	1.077824E+08	2155648.000	8.47
OJ15061-CALH	100	2.226407E+08	2226407.000	8.47
OJ15061-CALI	200	4.977243E+08	2488622.000	8.47

**AVE RF** 2253990.000 **RF RSD** 10.68 **AVE RT** 8.47



## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

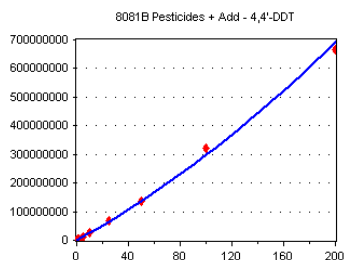
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### 4,4'-DDT

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

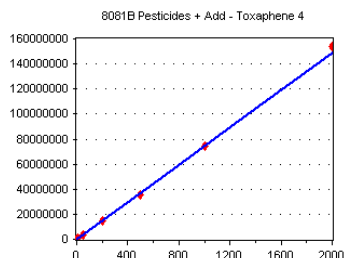


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1202509	2405018.000	8.50
OJ15061-CAL2	1	2340699	2340699.000	8.50
OJ15061-CAL3	2	4776266	2388133.000	8.50
OJ15061-CAL4	5	1.169022E+07	2338044.000	8.50
OJ15061-CAL5	10	2.509615E+07	2509615.000	8.50
OJ15061-CAL6	25	6.870501E+07	2748200.000	8.50
OJ15061-CAL7	50	1.378779E+08	2757558.000	8.50
OJ15061-CAL8	100	3.214173E+08	3214173.000	8.50
OJ15061-CAL9	200	6.643459E+08	3321730.000	8.50

**AVE RF** 2669241.000 **RF RSD** 14.07 **AVE RT** 8.50

### Toxaphene 4

Curve Fit: **AVERAGE RF**

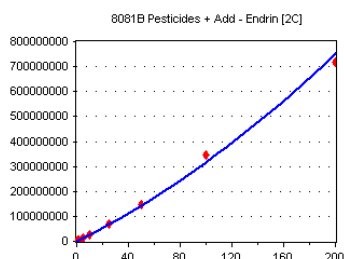


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	806604	80660.400	8.66
OJ15061-CALR	50	3598900	71978.000	8.66
OJ15061-CALT	200	1.434054E+07	71702.700	8.66
OJ15061-CALU	500	3.530341E+07	70606.810	8.66
OJ15061-CALV	1000	7.446222E+07	74462.230	8.66
OJ15061-CALW	2000	1.542259E+08	77112.950	8.66

**AVE RF** 74420.520 **RF RSD** 5.17 **AVE RT** 8.66

### Endrin [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

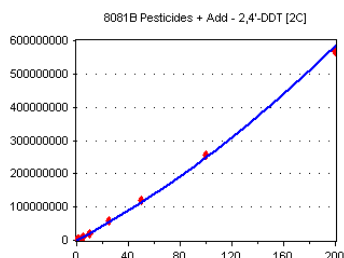


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1241690	2483380.000	8.69
OJ15061-CAL2	1	2521951	2521951.000	8.69
OJ15061-CAL3	2	4965041	2482521.000	8.69
OJ15061-CAL4	5	1.23827E+07	2476540.000	8.69
OJ15061-CAL5	10	2.497265E+07	2497265.000	8.69
OJ15061-CAL6	25	7.07471E+07	2829884.000	8.69
OJ15061-CAL7	50	1.473103E+08	2946206.000	8.69
OJ15061-CAL8	100	3.459103E+08	3459103.000	8.69
OJ15061-CAL9	200	7.172319E+08	3586159.000	8.69

**AVE RF** 2809223.000 **RF RSD** 15.66 **AVE RT** 8.69

### 2,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1355429	2710858.000	8.69
OJ15061-CALB	1	2394823	2394823.000	8.69
OJ15061-CALC	2	3988690	1994345.000	8.69
OJ15061-CALD	5	1.011557E+07	2023114.000	8.69
OJ15061-CALE	10	2.090847E+07	2090847.000	8.69
OJ15061-CALF	25	5.801326E+07	2320531.000	8.69
OJ15061-CALG	50	1.203029E+08	2406058.000	8.69
OJ15061-CALH	100	2.572524E+08	2572524.000	8.69
OJ15061-CALI	200	5.670772E+08	2835386.000	8.69

**AVE RF** 2372054.000 **RF RSD** 12.63 **AVE RT** 8.69

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

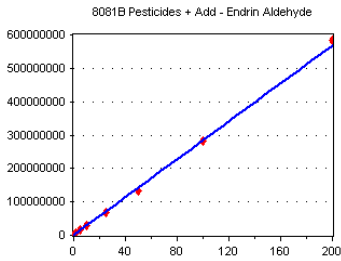
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Endrin Aldehyde

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

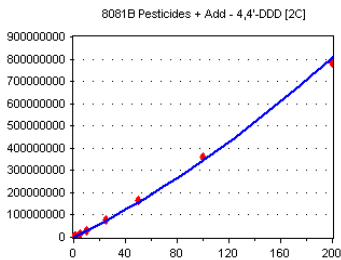


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	2173619	4347238.000	8.73
OJ15061-CAL2	1	3907593	3907593.000	8.73
OJ15061-CAL3	2	7357293	3678647.000	8.73
OJ15061-CAL4	5	1.478115E+07	2956230.000	8.73
OJ15061-CAL5	10	2.788152E+07	2788152.000	8.73
OJ15061-CAL6	25	6.857176E+07	2742871.000	8.73
OJ15061-CAL7	50	1.342918E+08	2685836.000	8.72
OJ15061-CAL8	100	2.824284E+08	2824284.000	8.72
OJ15061-CAL9	200	5.835017E+08	2917509.000	8.72

**AVE RF** 3205373.000 **RF RSD** 19.01 **AVE RT** 8.73

### 4,4'-DDD [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

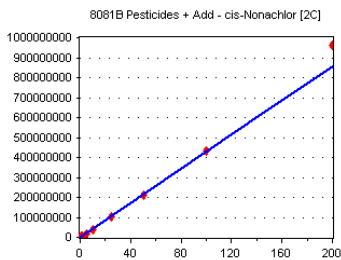


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1460301	2920602.000	8.74
OJ15061-CAL2	1	2804997	2804997.000	8.74
OJ15061-CAL3	2	5453646	2726823.000	8.73
OJ15061-CAL4	5	1.373075E+07	2746150.000	8.73
OJ15061-CAL5	10	2.943807E+07	2943807.000	8.73
OJ15061-CAL6	25	7.685317E+07	3074127.000	8.73
OJ15061-CAL7	50	1.632024E+08	3264048.000	8.73
OJ15061-CAL8	100	3.619428E+08	3619428.000	8.73
OJ15061-CAL9	200	7.853932E+08	3926966.000	8.73

**AVE RF** 3114105.000 **RF RSD** 13.37 **AVE RT** 8.73

### cis-Nonachlor [2C]

Curve Fit: **AVERAGE RF**

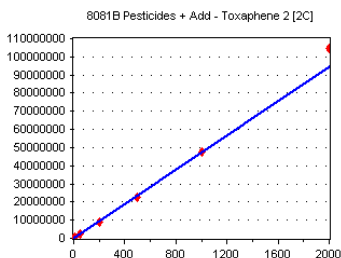


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	2474139	4948278.000	8.74
OJ15061-CALB	1	4587763	4587763.000	8.74
OJ15061-CALC	2	7629694	3814847.000	8.74
OJ15061-CALD	5	1.889308E+07	3778616.000	8.74
OJ15061-CALE	10	3.914634E+07	3914634.000	8.74
OJ15061-CALF	25	1.032783E+08	4131132.000	8.74
OJ15061-CALG	50	2.084081E+08	4168162.000	8.74
OJ15061-CALH	100	4.351283E+08	4351283.000	8.74
OJ15061-CALI	200	9.613093E+08	4806547.000	8.73

**AVE RF** 4277918.000 **RF RSD** 9.98 **AVE RT** 8.74

### Toxaphene 2 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	464016	46401.600	8.79
OJ15061-CALR	50	2303326	46066.520	8.79
OJ15061-CALT	200	8939693	44698.460	8.79
OJ15061-CALU	500	2.274714E+07	45494.280	8.79
OJ15061-CALV	1000	4.783642E+07	47836.420	8.79
OJ15061-CALW	2000	1.04738E+08	52369.000	8.79

**AVE RF** 47144.380 **RF RSD** 5.86 **AVE RT** 8.79

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

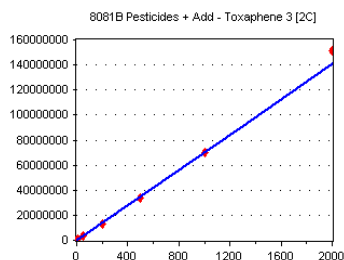
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Toxaphene 3 [2C]

Curve Fit: **AVERAGE RF**

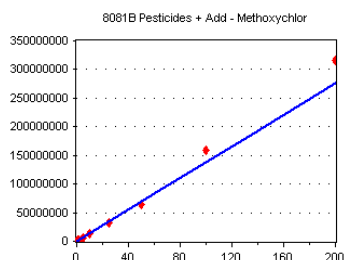


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	754224	75422.400	8.83
OJ15061-CALR	50	3392585	67851.700	8.83
OJ15061-CALT	200	1.30975E+07	65487.500	8.83
OJ15061-CALU	500	3.377527E+07	67550.550	8.83
OJ15061-CALV	1000	7.009351E+07	70093.520	8.82
OJ15061-CALW	2000	1.511803E+08	75590.150	8.82

**AVE RF** 70332.630    **RF RSD** 6.06    **AVE RT** 8.82

### Methoxychlor

Curve Fit: **AVERAGE RF**

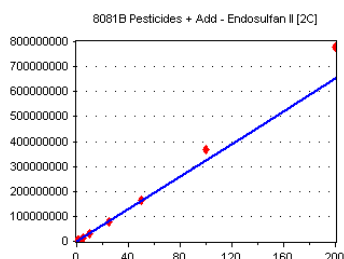


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	712510	1425020.000	8.84
OJ15061-CAL2	1	1332109	1332109.000	8.83
OJ15061-CAL3	2	2713959	1356980.000	8.83
OJ15061-CAL4	5	6325525	1265105.000	8.83
OJ15061-CAL5	10	1.265521E+07	1265521.000	8.83
OJ15061-CAL6	25	3.259557E+07	1303823.000	8.83
OJ15061-CAL7	50	6.398586E+07	1279717.000	8.83
OJ15061-CAL8	100	1.583769E+08	1583769.000	8.83
OJ15061-CAL9	200	3.154462E+08	1577231.000	8.83

**AVE RF** 1376586.000    **RF RSD** 9.16    **AVE RT** 8.83

### Endosulfan II [2C]

Curve Fit: **AVERAGE RF**

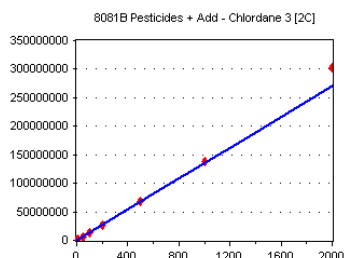


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1655922	3311844.000	8.84
OJ15061-CAL2	1	3080696	3080696.000	8.84
OJ15061-CAL3	2	5953424	2976712.000	8.84
OJ15061-CAL4	5	1.446738E+07	2893476.000	8.84
OJ15061-CAL5	10	3.011892E+07	3011892.000	8.84
OJ15061-CAL6	25	7.916834E+07	3166734.000	8.84
OJ15061-CAL7	50	1.654706E+08	3309412.000	8.84
OJ15061-CAL8	100	3.668063E+08	3668063.000	8.84
OJ15061-CAL9	200	7.770257E+08	3885129.000	8.84

**AVE RF** 3255995.000    **RF RSD** 10.18    **AVE RT** 8.84

### Chlordane 3 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALJ	10	1424459	142445.900	8.87
OJ15061-CALK	50	6150473	123009.500	8.87
OJ15061-CALL	100	1.25359E+07	125359.000	8.87
OJ15061-CALM	200	2.578283E+07	128914.100	8.87
OJ15061-CALN	500	6.875428E+07	137508.600	8.87
OJ15061-CALO	1000	1.384627E+08	138462.700	8.87
OJ15061-CALP	2000	3.021017E+08	151050.800	8.87

**AVE RF** 135250.100    **RF RSD** 7.42    **AVE RT** 8.87

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

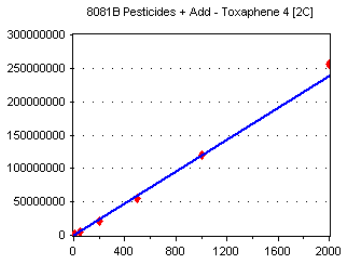
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Toxaphene 4 [2C]

Curve Fit: **AVERAGE RF**

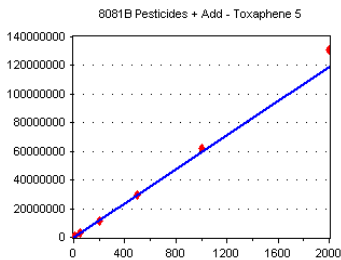


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	1349902	134990.200	8.89
OJ15061-CALR	50	5669610	113392.200	8.89
OJ15061-CALT	200	2.151915E+07	107595.800	8.89
OJ15061-CALU	500	5.541282E+07	110825.600	8.89
OJ15061-CALV	1000	1.200841E+08	120084.100	8.89
OJ15061-CALW	2000	2.558128E+08	127906.400	8.89

**AVE RF** 119132.400 **RF RSD** 8.92 **AVE RT** 8.89

### Toxaphene 5

Curve Fit: **AVERAGE RF**

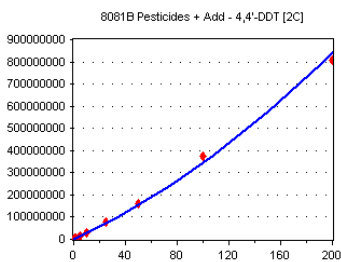


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	543118	54311.800	8.89
OJ15061-CALR	50	2870073	57401.460	8.89
OJ15061-CALT	200	1.158409E+07	57920.450	8.89
OJ15061-CALU	500	2.959844E+07	59196.880	8.89
OJ15061-CALV	1000	6.187611E+07	61876.110	8.89
OJ15061-CALW	2000	1.309448E+08	65472.400	8.89

**AVE RF** 59363.180 **RF RSD** 6.53 **AVE RT** 8.89

### 4,4'-DDT [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

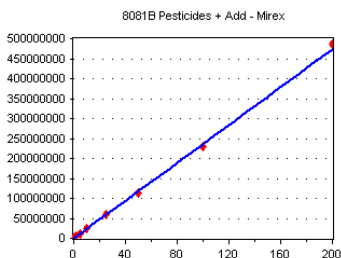


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1227833	2455666.000	8.96
OJ15061-CAL2	1	2447680	2447680.000	8.96
OJ15061-CAL3	2	4865206	2432603.000	8.96
OJ15061-CAL4	5	1.275413E+07	2550826.000	8.96
OJ15061-CAL5	10	2.696225E+07	2696225.000	8.96
OJ15061-CAL6	25	7.603364E+07	3041346.000	8.96
OJ15061-CAL7	50	1.584137E+08	3168274.000	8.96
OJ15061-CAL8	100	3.736752E+08	3736752.000	8.96
OJ15061-CAL9	200	8.064791E+08	4032396.000	8.96

**AVE RF** 2951307.000 **RF RSD** 20.17 **AVE RT** 8.96

### Mirex

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1825977	3651954.000	8.96
OJ15061-CALB	1	3315145	3315145.000	8.96
OJ15061-CALC	2	5444461	2722231.000	8.96
OJ15061-CALD	5	1.205108E+07	2410216.000	8.96
OJ15061-CALE	10	2.437342E+07	2437342.000	8.96
OJ15061-CALF	25	5.907428E+07	2362971.000	8.96
OJ15061-CALG	50	1.130404E+08	2260808.000	8.96
OJ15061-CALH	100	2.287059E+08	2287059.000	8.96
OJ15061-CALI	200	4.862299E+08	2431150.000	8.96

**AVE RF** 2653208.000 **RF RSD** 18.69 **AVE RT** 8.96

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

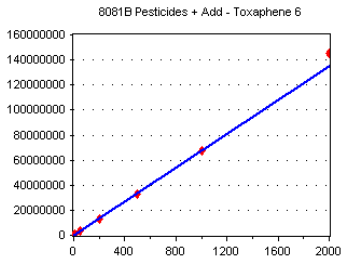
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Toxaphene 6

Curve Fit: **AVERAGE RF**

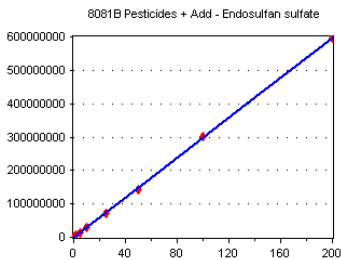


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	681518	68151.800	8.97
OJ15061-CALR	50	3244525	64890.500	8.96
OJ15061-CALT	200	1.300927E+07	65046.350	8.96
OJ15061-CALU	500	3.303615E+07	66072.300	8.96
OJ15061-CALV	1000	6.723978E+07	67239.770	8.96
OJ15061-CALW	2000	1.451009E+08	72550.450	8.96

**AVE RF 67325.200 RF RSD 4.24 AVE RT 8.96**

### Endosulfan sulfate

Curve Fit: **AVERAGE RF**

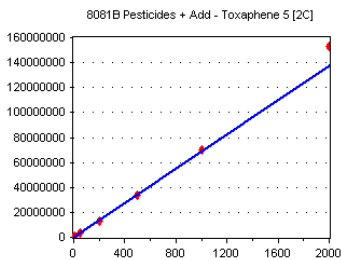


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1731826	3463652.000	9.03
OJ15061-CAL2	1	3157154	3157154.000	9.03
OJ15061-CAL3	2	5905541	2952771.000	9.03
OJ15061-CAL4	5	1.396486E+07	2792972.000	9.03
OJ15061-CAL5	10	2.809791E+07	2809791.000	9.03
OJ15061-CAL6	25	7.199091E+07	2879637.000	9.03
OJ15061-CAL7	50	1.425333E+08	2850666.000	9.03
OJ15061-CAL8	100	3.010094E+08	3010094.000	9.03
OJ15061-CAL9	200	5.961838E+08	2980919.000	9.03

**AVE RF 2988628.000 RF RSD 7.07 AVE RT 9.03**

### Toxaphene 5 [2C]

Curve Fit: **AVERAGE RF**

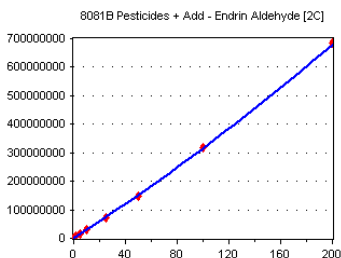


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALQ	10	702293	70229.300	9.07
OJ15061-CALR	50	3263105	65262.100	9.07
OJ15061-CALT	200	1.284584E+07	64229.200	9.07
OJ15061-CALU	500	3.353962E+07	67079.240	9.07
OJ15061-CALV	1000	6.97999E+07	69799.910	9.07
OJ15061-CALW	2000	1.534858E+08	76742.900	9.07

**AVE RF 68890.440 RF RSD 6.57 AVE RT 9.07**

### Endrin Aldehyde [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	2196243	4392486.000	9.07
OJ15061-CAL2	1	3815413	3815413.000	9.07
OJ15061-CAL3	2	7179367	3589684.000	9.07
OJ15061-CAL4	5	1.50715E+07	3014300.000	9.07
OJ15061-CAL5	10	2.947767E+07	2947767.000	9.07
OJ15061-CAL6	25	7.327458E+07	2930983.000	9.07
OJ15061-CAL7	50	1.460396E+08	2920792.000	9.07
OJ15061-CAL8	100	3.193092E+08	3193092.000	9.07
OJ15061-CAL9	200	6.84238E+08	3421190.000	9.07

**AVE RF 3358412.000 RF RSD 14.98 AVE RT 9.07**

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

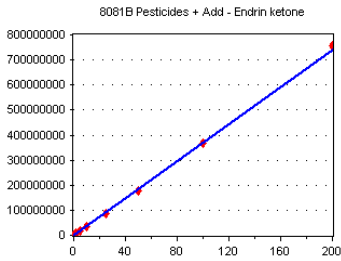
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Endrin ketone

Curve Fit: **AVERAGE RF**

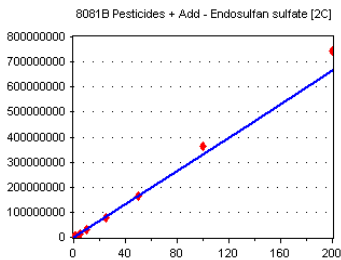


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	2069188	4138376.000	9.24
OJ15061-CAL2	1	3789042	3789042.000	9.23
OJ15061-CAL3	2	7274419	3637210.000	9.23
OJ15061-CAL4	5	1.802375E+07	3604750.000	9.23
OJ15061-CAL5	10	3.560505E+07	3560505.000	9.23
OJ15061-CAL6	25	8.834975E+07	3533990.000	9.23
OJ15061-CAL7	50	1.78018E+08	3560360.000	9.23
OJ15061-CAL8	100	3.6819E+08	3681900.000	9.23
OJ15061-CAL9	200	7.549577E+08	3774789.000	9.23

**AVE RF** 3697880.000 **RF RSD** 5.11 **AVE RT** 9.23

### Endosulfan sulfate [2C]

Curve Fit: **AVERAGE RF**

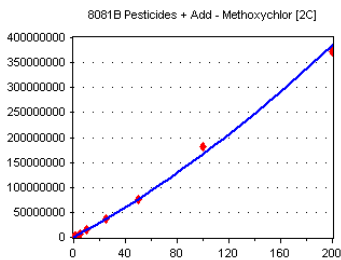


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	1864404	3728808.000	9.27
OJ15061-CAL2	1	3258540	3258540.000	9.27
OJ15061-CAL3	2	6267396	3133698.000	9.27
OJ15061-CAL4	5	1.496955E+07	2993910.000	9.27
OJ15061-CAL5	10	3.045163E+07	3045163.000	9.26
OJ15061-CAL6	25	7.87263E+07	3149052.000	9.26
OJ15061-CAL7	50	1.628361E+08	3256722.000	9.26
OJ15061-CAL8	100	3.619464E+08	3619464.000	9.26
OJ15061-CAL9	200	7.438466E+08	3719233.000	9.27

**AVE RF** 3322732.000 **RF RSD** 8.71 **AVE RT** 9.26

### Methoxychlor [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

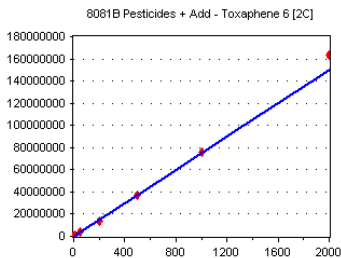


Standard	Concentration	Response	Factor	RT
OJ15061-CAL1	0.5	771752	1543504.000	9.43
OJ15061-CAL2	1	1490489	1490489.000	9.42
OJ15061-CAL3	2	2917738	1458869.000	9.42
OJ15061-CAL4	5	6672527	1334505.000	9.42
OJ15061-CAL5	10	1.410484E+07	1410484.000	9.42
OJ15061-CAL6	25	3.780903E+07	1512361.000	9.42
OJ15061-CAL7	50	7.507455E+07	1501491.000	9.42
OJ15061-CAL8	100	1.811444E+08	1811444.000	9.42
OJ15061-CAL9	200	3.725214E+08	1862607.000	9.42

**AVE RF** 1547306.000 **RF RSD** 11.37 **AVE RT** 9.42

### Toxaphene 6 [2C]

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Factor	RT
OJ15061-CALQ	10	779942	77994.200	9.44
OJ15061-CALR	50	3524155	70483.100	9.44
OJ15061-CALT	200	1.399055E+07	69952.750	9.44
OJ15061-CALU	500	3.661814E+07	73236.280	9.44
OJ15061-CALV	1000	7.59658E+07	75965.800	9.44
OJ15061-CALW	2000	1.633167E+08	81658.350	9.44

**AVE RF** 74881.750 **RF RSD** 6.07 **AVE RT** 9.44

## Element Calibration Review Sheet

Calibration ID: **A0J2107**

Instrument: **DUALECD8**

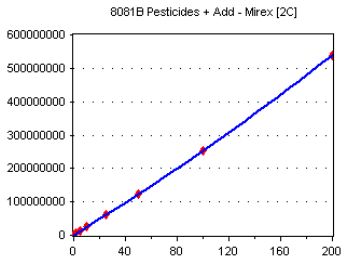
Calibration Date: **10/21/2020**

Analysis: **8081B Pesticides + Add**

Instrument Cal ID: **ECD8\_QUANTPEST\_20101**

### Mirex [2C]

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

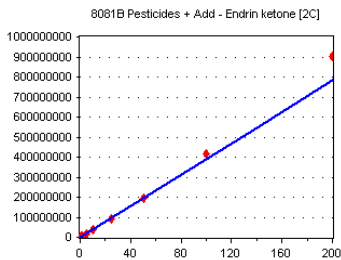


Standard	Concentration	Response	Response Factor	RT
OJ15061-CALA	0.5	1941278	3882556.000	9.65
OJ15061-CALB	1	3435505	3435505.000	9.65
OJ15061-CALC	2	5403191	2701596.000	9.65
OJ15061-CALD	5	1.21606E+07	2432120.000	9.65
OJ15061-CALE	10	2.447128E+07	2447128.000	9.65
OJ15061-CALF	25	6.083436E+07	2433375.000	9.65
OJ15061-CALG	50	1.234717E+08	2469434.000	9.64
OJ15061-CALH	100	2.545269E+08	2545269.000	9.65
OJ15061-CALI	200	5.382337E+08	2691169.000	9.64

**AVE RF** 2782017.000 **RF RSD** 18.69 **AVE RT** 9.65

### Endrin ketone [2C]

Curve Fit: **AVERAGE RF**

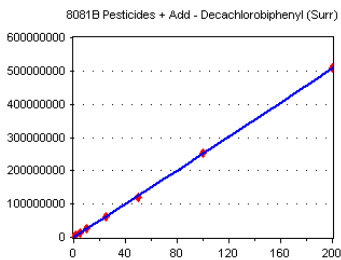


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	7722042	1.544	9.66
OJ15061-CAL2	1	4169368	4169368.000	9.66
OJ15061-CAL3	2	7194544	3597272.000	9.66
OJ15061-CAL4	5	1.76444E+07	3528880.000	9.66
OJ15061-CAL5	10	3.655581E+07	3655581.000	9.65
OJ15061-CAL6	25	9.339277E+07	3735711.000	9.66
OJ15061-CAL7	50	1.932279E+08	3864558.000	9.66
OJ15061-CAL8	100	4.180418E+08	4180418.000	9.66
OJ15061-CAL9	200	9.03554E+08	4517770.000	9.66

**AVE RF** 3906195.000 **RF RSD** 8.92 **AVE RT** 9.66

### Decachlorobiphenyl (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

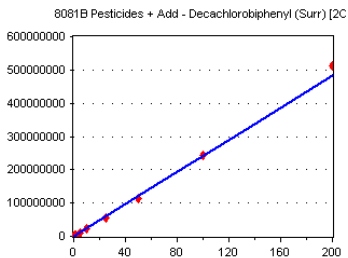


Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1866301	3732602.000	9.90
OJ15061-CAL2	1	3197716	3197716.000	9.90
OJ15061-CAL3	2	5701683	2850842.000	9.90
OJ15061-CAL4	5	1.28632E+07	2572640.000	9.90
OJ15061-CAL5	10	2.566336E+07	2566336.000	9.90
OJ15061-CAL6	25	6.231846E+07	2492739.000	9.90
OJ15061-CAL7	50	1.21564E+08	2431280.000	9.90
OJ15061-CAL8	100	2.543656E+08	2543656.000	9.90
OJ15061-CAL9	200	5.089062E+08	2544531.000	9.90

**AVE RF** 2770260.000 **RF RSD** 15.58 **AVE RT** 9.90

### Decachlorobiphenyl (Surr) [2C] Curve Fit:

**AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
OJ15061-CAL1	0.5	1410803	2821606.000	10.51
OJ15061-CAL2	1	2586506	2586506.000	10.51
OJ15061-CAL3	2	4791544	2395772.000	10.51
OJ15061-CAL4	5	1.128383E+07	2256766.000	10.51
OJ15061-CAL5	10	2.221992E+07	2221992.000	10.50
OJ15061-CAL6	25	5.626095E+07	2250438.000	10.50
OJ15061-CAL7	50	1.124335E+08	2248670.000	10.51
OJ15061-CAL8	100	2.423042E+08	2423042.000	10.50
OJ15061-CAL9	200	5.137921E+08	2568961.000	10.51

**AVE RF** 2419306.000 **RF RSD** 8.47 **AVE RT** 10.50

# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

## 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  
608.3 Pesticides  
608.3 Additional  
608.3 Chlordane  
608.3 Pest (Chlordane)  
608.3 Pest + Add (250mL) - Development  
608.3 Pesticides (DDT Only)  
608.3 Pesticides (SW)  
608.3 Pesticides (SW) Full List  
608.3 Pesticides (TTO)  
608.3 Toxaphene  
8081B Pesticides  
8081B 2,4+4,4-DDx Only (+Add)  
8081B Chlordane  
8081B DDT Only  
8081B Pesticides + Add  
8081B Pesticides + Add (Diss)  
8081B RSET FW Sed (+Add) (2016)  
8081B RSET Sediment List (+Add)  
8081B RSET Sediment Marine (2016) (+Add)  
8081B Toxaphene



## CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

### INSTRUMENT SEQUENCE LOG

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>STDID</u>	<u>ISTD_ID</u>	<u>Analyzed</u>
0J15061-ICB1	Initial Cal Blank	Water	A20J148		10/15/2020 6:15:00PM
0J15061-CAL1	Cal Standard	Water	A20J274	"	10/15/2020 6:32:00PM
0J15061-CAL2	Cal Standard	Water	A20J275	"	10/15/2020 6:48:00PM
0J15061-CAL3	Cal Standard	Water	A20H471	"	10/15/2020 7:05:00PM
0J15061-CAL4	Cal Standard	Water	A20H472	"	10/15/2020 7:21:00PM
0J15061-CAL5	Cal Standard	Water	A20H473	"	10/15/2020 7:38:00PM
0J15061-CAL6	Cal Standard	Water	A20H474	"	10/15/2020 7:54:00PM
0J15061-CAL7	Cal Standard	Water	A20H475	"	10/15/2020 8:11:00PM
0J15061-CAL8	Cal Standard	Water	A20H476	"	10/15/2020 8:27:00PM
0J15061-CAL9	Cal Standard	Water	A20H470	"	10/15/2020 8:44:00PM
0J15061-ICV1	Initial Cal Check	Water	A20I130	"	10/15/2020 9:17:00PM
0J15061-CALA	Cal Standard	Water	A20J276	"	10/15/2020 9:33:00PM
0J15061-CALB	Cal Standard	Water	A20I180	"	10/15/2020 9:50:00PM
0J15061-CALC	Cal Standard	Water	A20I181	"	10/15/2020 10:06:00PM
0J15061-CALD	Cal Standard	Water	A20I182	"	10/15/2020 10:23:00PM
0J15061-CALE	Cal Standard	Water	A20I183	"	10/15/2020 10:39:00PM
0J15061-CALF	Cal Standard	Water	A20I184	"	10/15/2020 10:56:00PM
0J15061-CALG	Cal Standard	Water	A20I185	"	10/15/2020 11:12:00PM
0J15061-CALH	Cal Standard	Water	A20I186	"	10/15/2020 11:29:00PM
0J15061-CALI	Cal Standard	Water	A20I179	"	10/15/2020 11:46:00PM
0J15061-ICV2	Initial Cal Check	Water	A20I187	"	10/16/2020 12:19:00AM
0J15061-CALJ	Cal Standard	Water	A20J277	"	10/16/2020 12:35:00AM
0J15061-CALK	Cal Standard	Water	A20F057	"	10/16/2020 12:52:00AM
0J15061-CALL	Cal Standard	Water	A20F058	"	10/16/2020 1:08:00AM
0J15061-CALM	Cal Standard	Water	A20F059	"	10/16/2020 1:24:00AM
0J15061-CALN	Cal Standard	Water	A20F060	"	10/16/2020 1:41:00AM
0J15061-CALO	Cal Standard	Water	A20F061	"	10/16/2020 1:58:00AM
0J15061-CALP	Cal Standard	Water	A20F056	"	10/16/2020 2:14:00AM
0J15061-ICV3	Initial Cal Check	Water	A20F062	"	10/16/2020 2:47:00AM
0J15061-CALQ	Cal Standard	Water	A20J278	"	10/16/2020 3:04:00AM
0J15061-CALR	Cal Standard	Water	A20F064	"	10/16/2020 3:20:00AM
0J15061-CALS	Cal Standard	Water	A20F065	"	10/16/2020 3:37:00AM
0J15061-CALT	Cal Standard	Water	A20F066	"	10/16/2020 3:53:00AM
0J15061-CALU	Cal Standard	Water	A20D430	"	10/16/2020 4:10:00AM
0J15061-CALV	Cal Standard	Water	A20D431	"	10/16/2020 4:26:00AM
0J15061-CALW	Cal Standard	Water	A20F063	"	10/16/2020 4:43:00AM
0J15061-ICV4	Initial Cal Check	Water	A20F067	"	10/16/2020 5:16:00AM

### CALIBRATION STANDARD RECOVERIES

Calibration: **A0J2107**

Instrument: **DUALECD8F**

1311/8081B TCLP Pest Reg L

Sequence: **0J15061**

Matrix: **Water**

<b>0J15061-CAL1</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
<b>0J15061-CAL2</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
<b>0J15061-CAL3</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>

## CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

0J15061-CAL4	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL5	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL6	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL7	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL8	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CAL9	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALB	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALC	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALD	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALE	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALF	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALG	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALH	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALI	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALJ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALK	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALL	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALM	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALN	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALO	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Chlordane (Technical)	940.0000	0.00	1000	0	
Chlordane (Technical) [2C]	940.0000	0.00	1000	0	
0J15061-CALP	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
Chlordane (Technical)	940.0000	0.00	2000	0	
Chlordane (Technical) [2C]	940.0000	0.00	2000	0	
0J15061-CALQ	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALR	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALS	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALT	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0J15061-CALU	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual

## CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0J15061

<b>0J15061-CALV</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Toxaphene (Total)	940.0000	0.00	1000	0	
Toxaphene (Total) [2C]	940.0000	0.00	1000	0	
<b>0J15061-CALW</b>	<b>Inst. MRL</b>	<b>Recalc Res.</b>	<b>Cal Level</b>	<b>%Rec.</b>	<b>Qual</b>
Toxaphene (Total)	940.0000	0.00	2000	0	
Toxaphene (Total) [2C]	940.0000	0.00	2000	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: **A0J2107**

Instrument: **DUALECD8F**

608.3 Pest + Add (250mL) - Dc

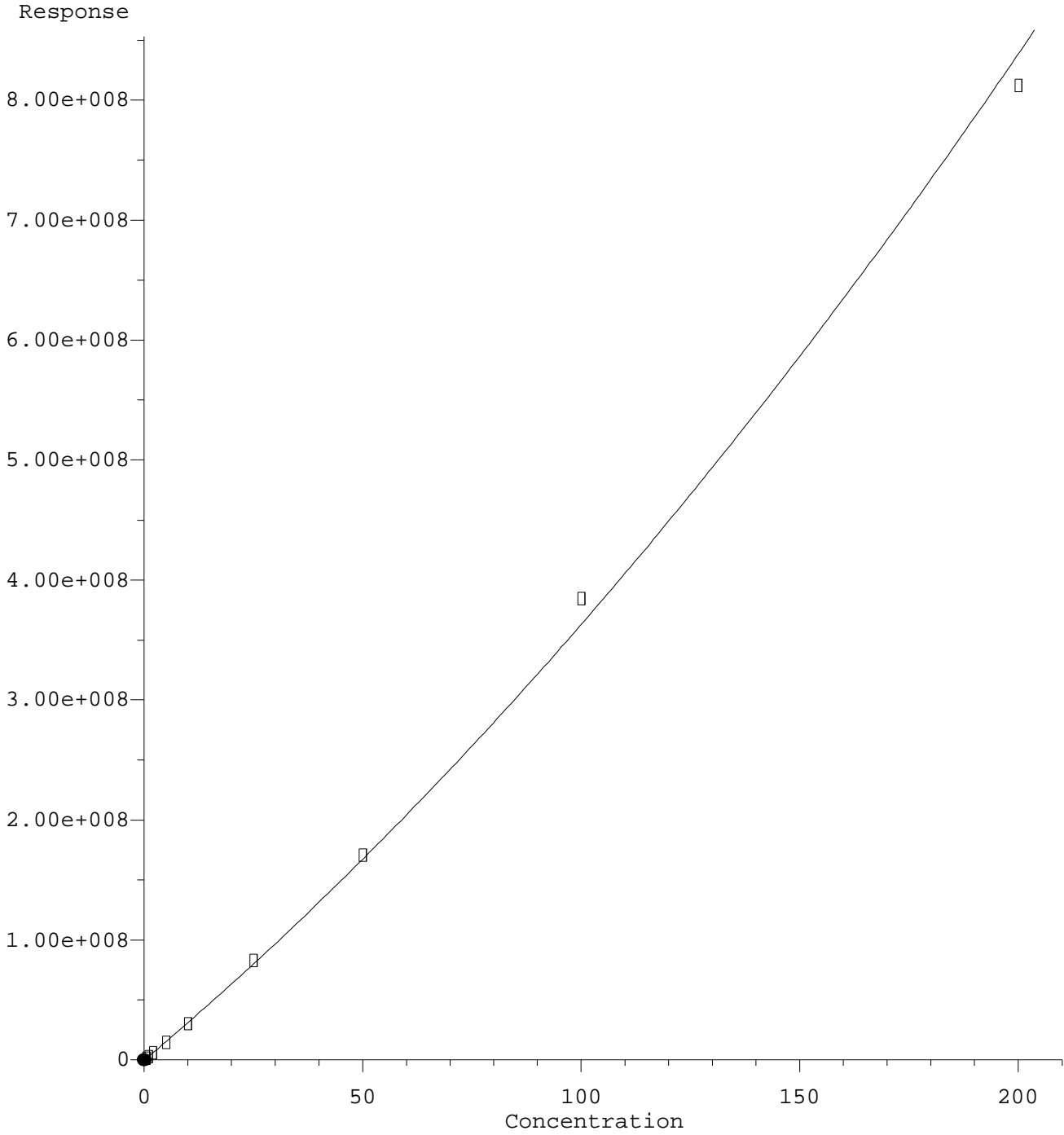
Sequence: **0J15061**

Matrix: **Water**

<b>0J15061-ICV1</b>	<b>Inst. MRL</b>	<b>ICV Level</b>	<b>Result</b>	<b>%Rec.</b>	<b>Qual</b>
<b>0J15061-ICV2</b>	<b>Inst. MRL</b>	<b>ICV Level</b>	<b>Result</b>	<b>%Rec.</b>	<b>Qual</b>
<b>0J15061-ICV3</b>	<b>Inst. MRL</b>	<b>ICV Level</b>	<b>Result</b>	<b>%Rec.</b>	<b>Qual</b>
<b>0J15061-ICV4</b>	<b>Inst. MRL</b>	<b>ICV Level</b>	<b>Result</b>	<b>%Rec.</b>	<b>Qual</b>

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.

d-BHC

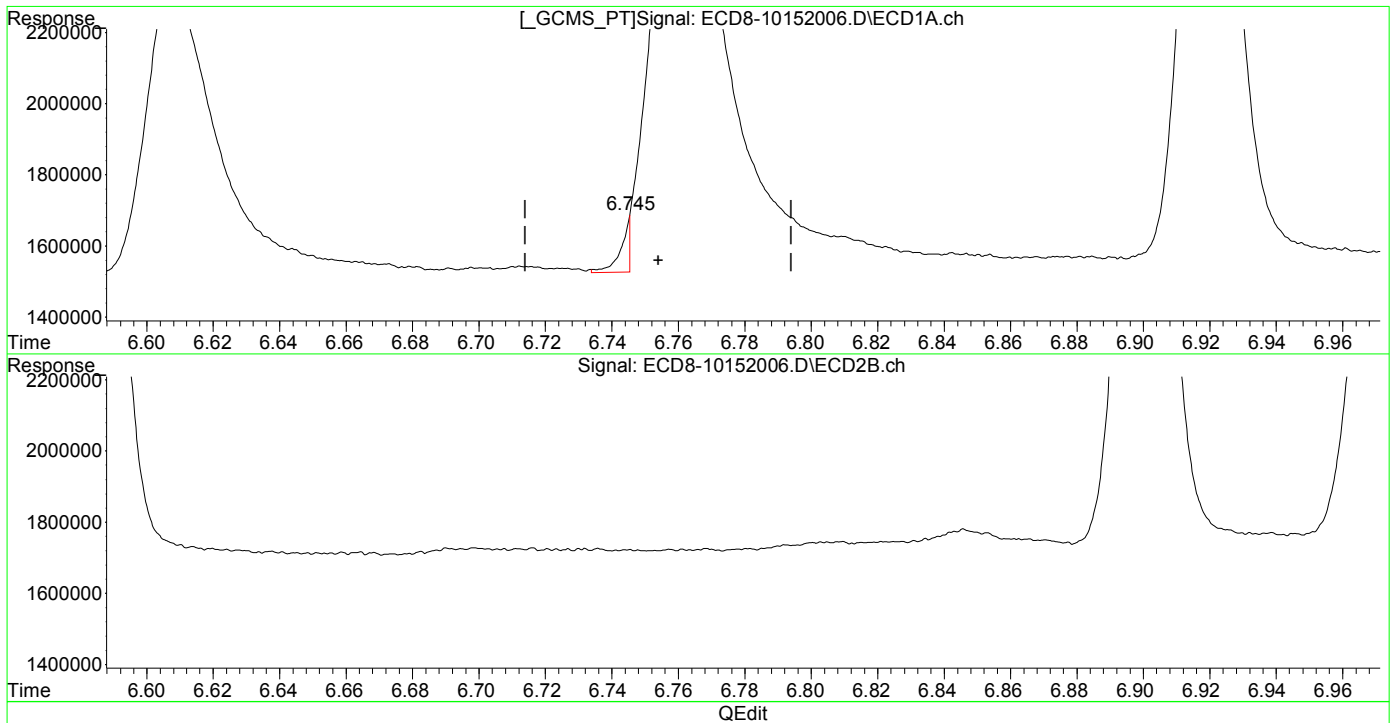


R = 5.64e+003 A\*A + 3.07e+006 A - 1.78e+005  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

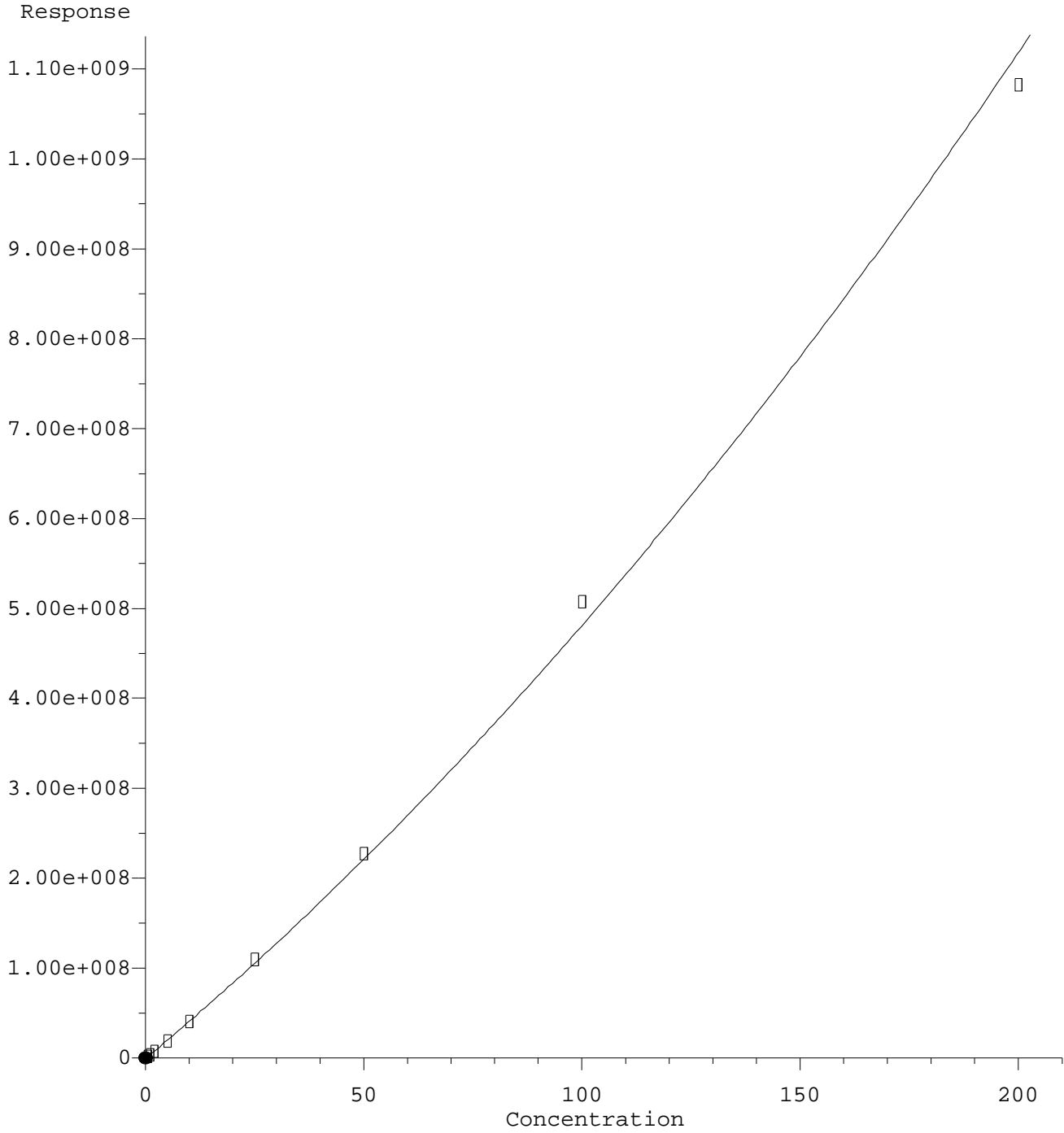


(6) d-BHC  
6.745min 0.105 ng/mL m  
response 142740

MJB 10/21/20

(6) d-BHC #2  
7.218min 0.517 ng/mL  
response 1816056

d-BHC #2

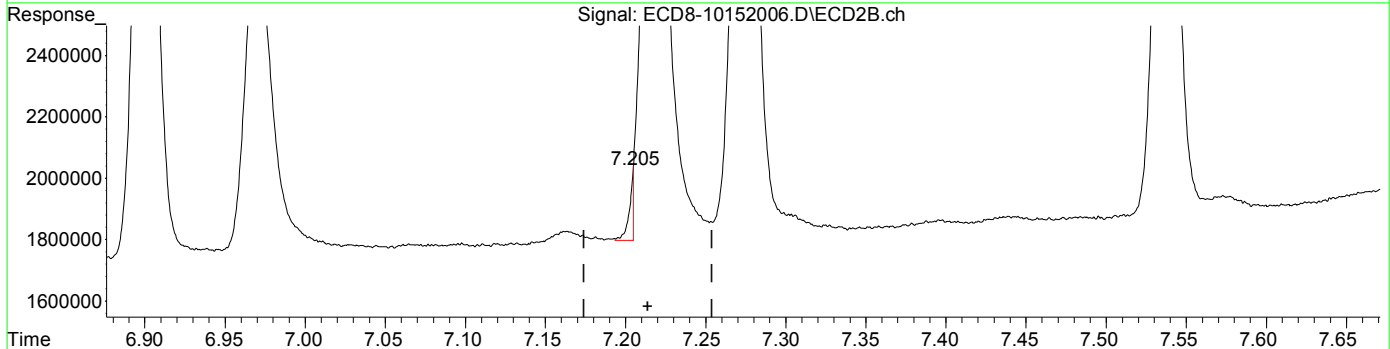
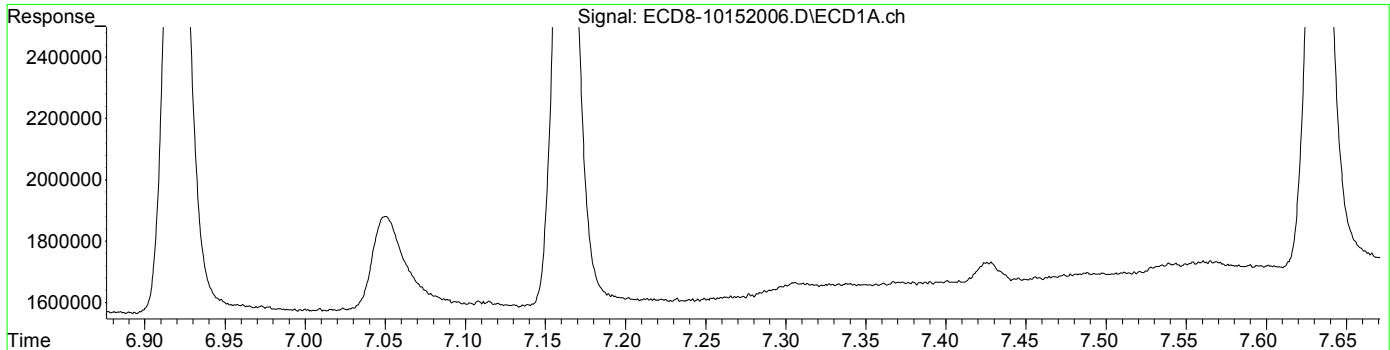


R = 7.83e+003 A\*A + 4.03e+006 A - 2.70e+005  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



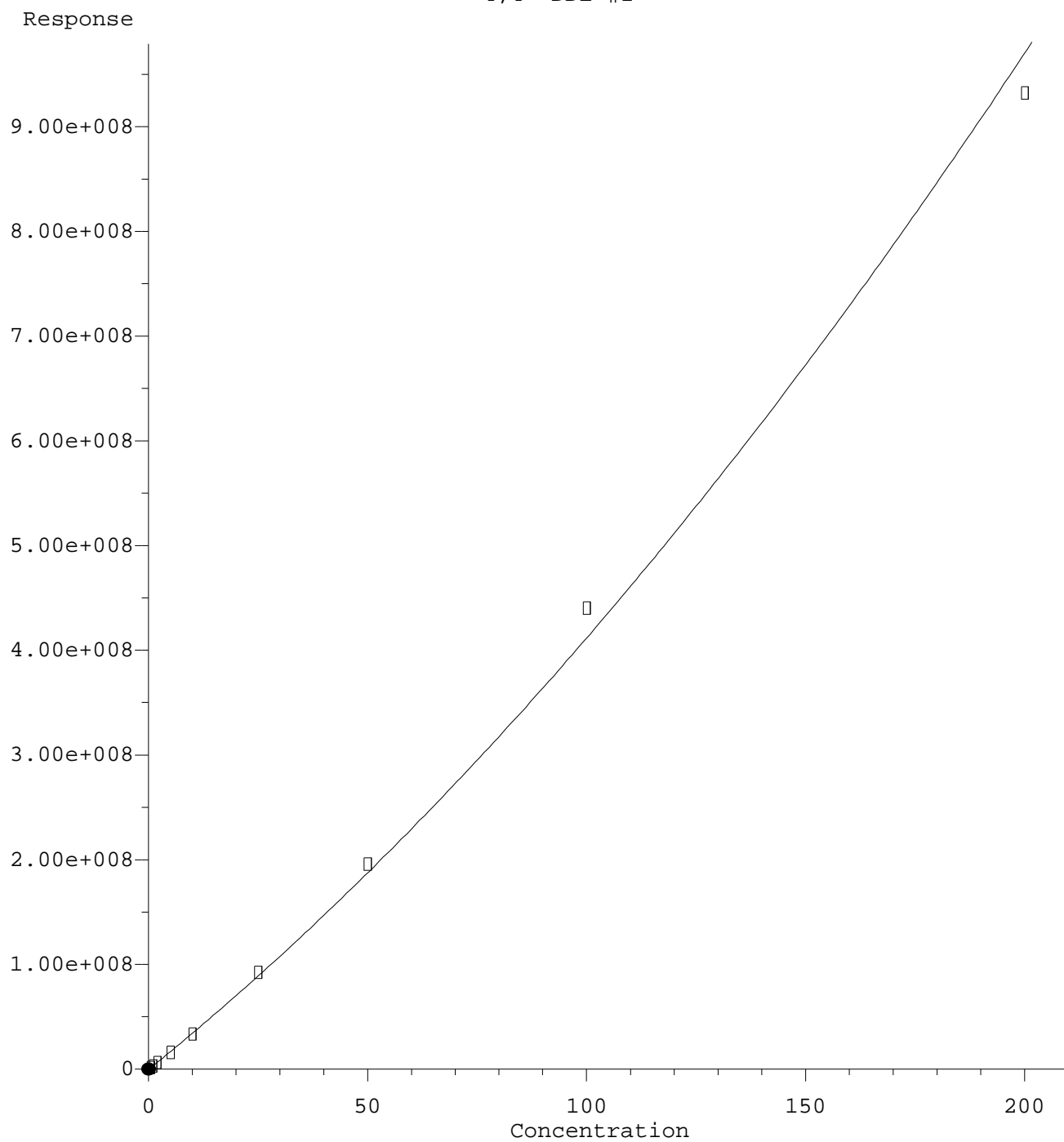
QEdit

(6) d-BHC  
6.745min 0.105 ng/mL m  
response 142740

MJB 10/21/20

(6) d-BHC #2  
7.205min 0.125 ng/mL m  
response 232349

4,4'-DDE #2



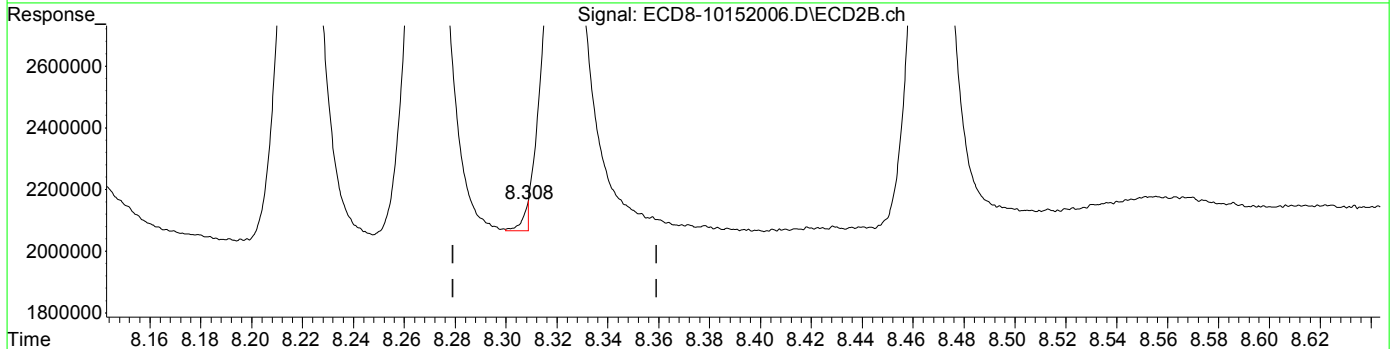
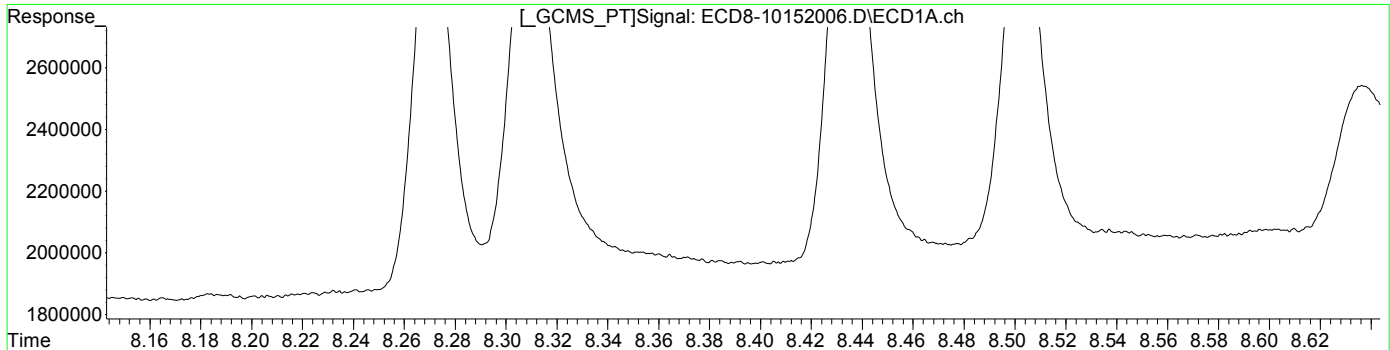
R = 7.35e+003 A\*A + 3.38e+006 A - 1.61e+005  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



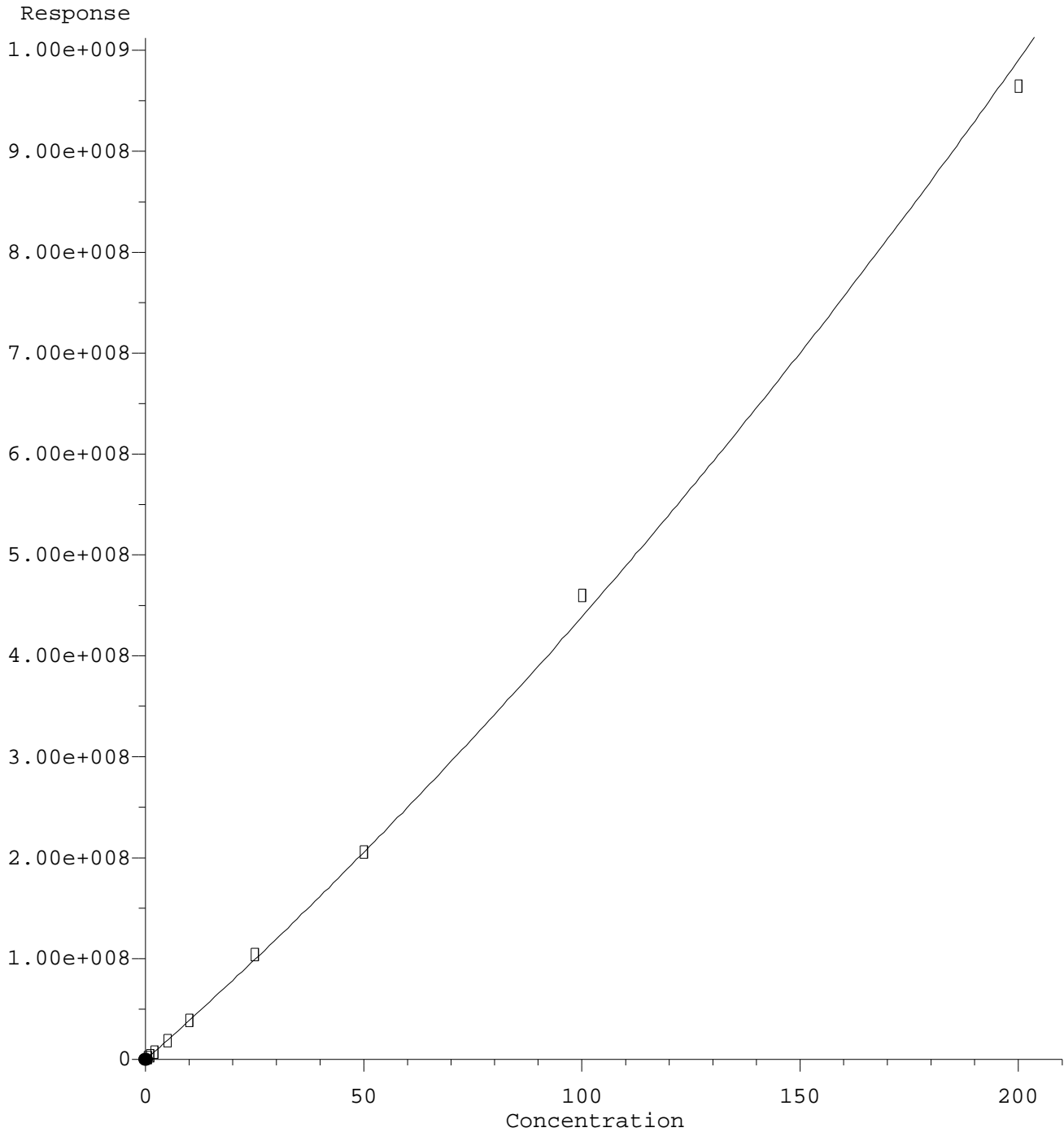
QEdit

(12) 4,4'-DDE  
7.880min 0.472 ng/mL  
response 1488674

MJB 10/21/20

(12) 4,4'-DDE #2  
8.308min 0.073 ng/mL m  
response 86901

Dieldrin #2

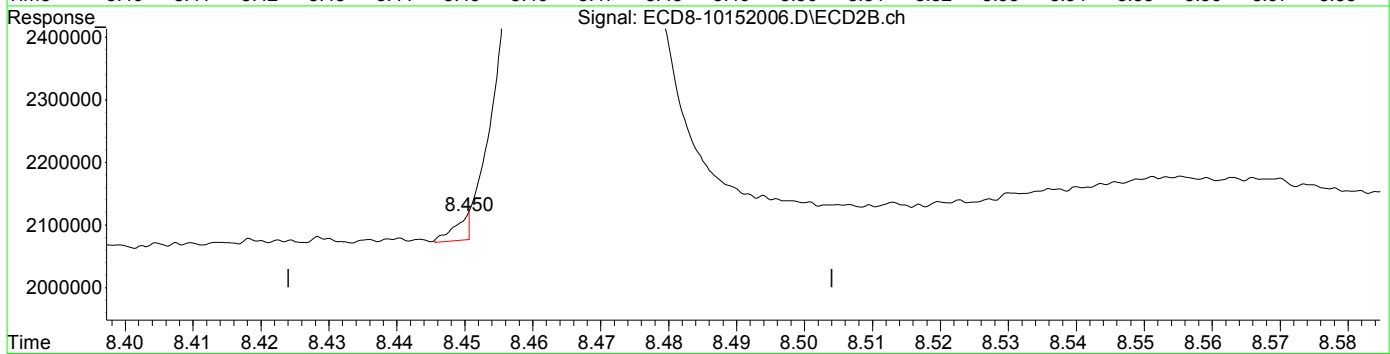
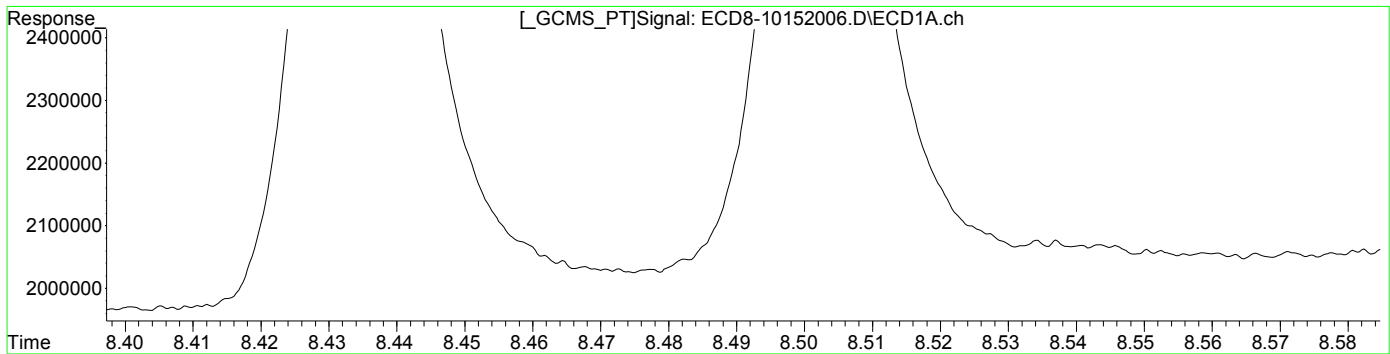


R = 5.65e+003 A\*A + 3.82e+006 A - 6.30e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



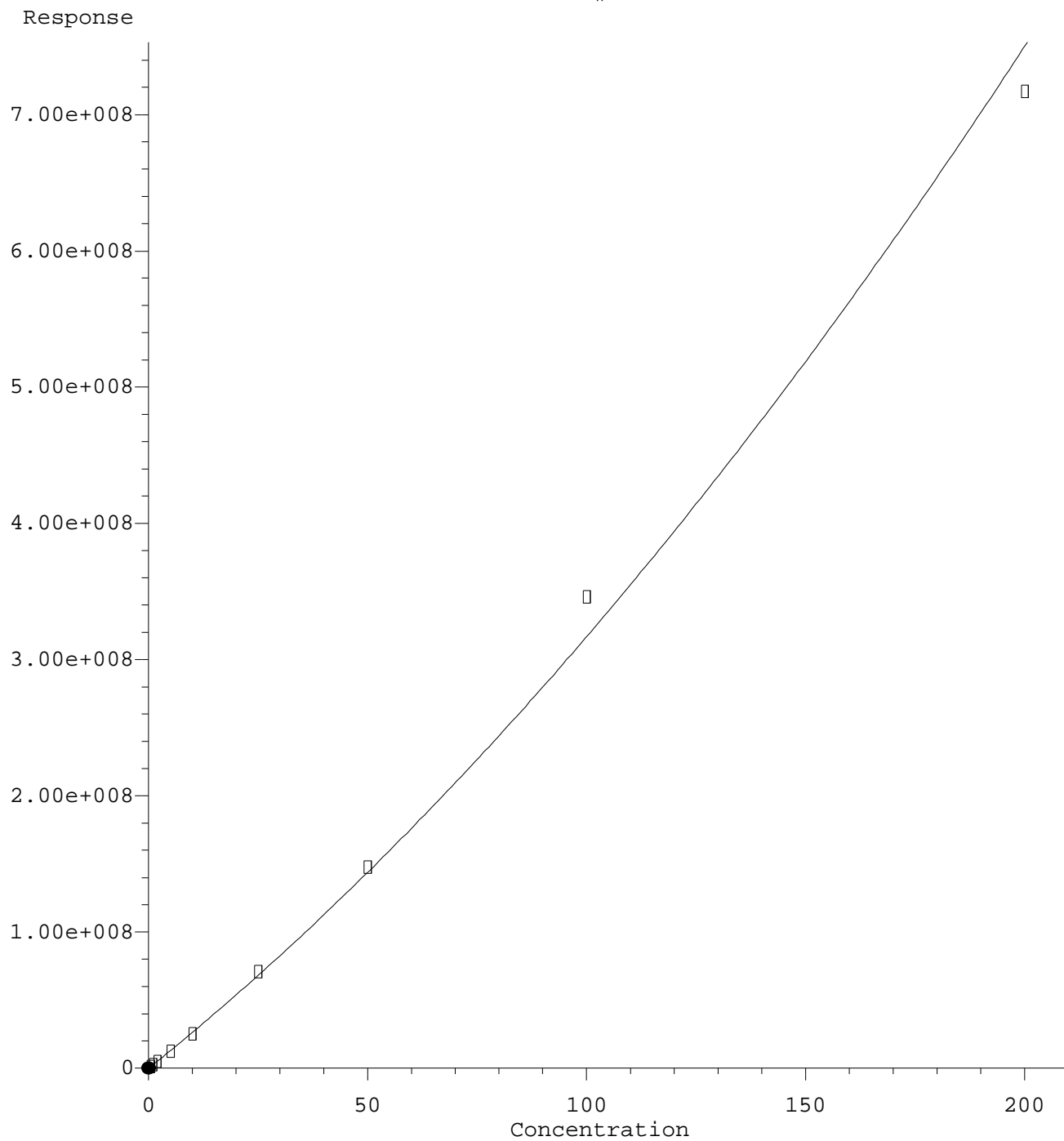
QEdit

(13) Dieldrin  
8.101min 0.503 ng/mL  
response 1890452

MJB 10/21/20

(13) Dieldrin #2  
8.450min 0.027 ng/mL m  
response 38767

Endrin #2

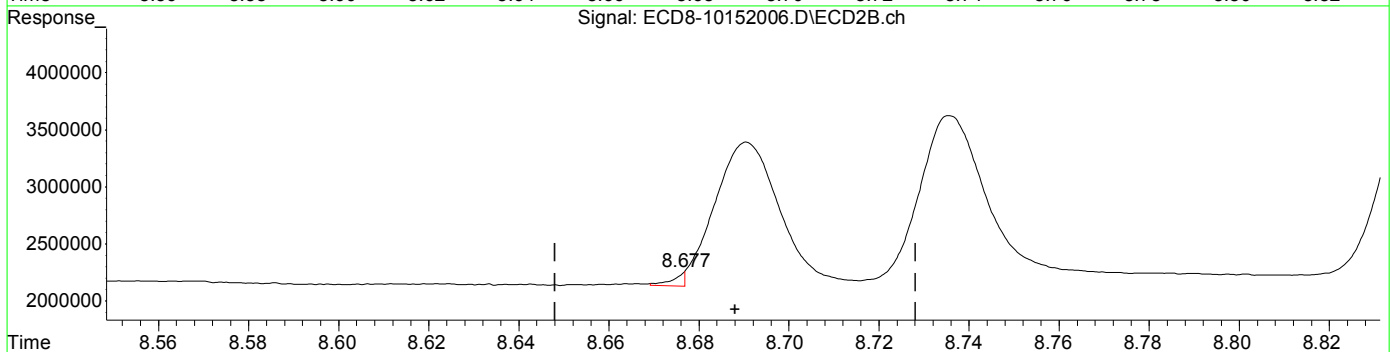
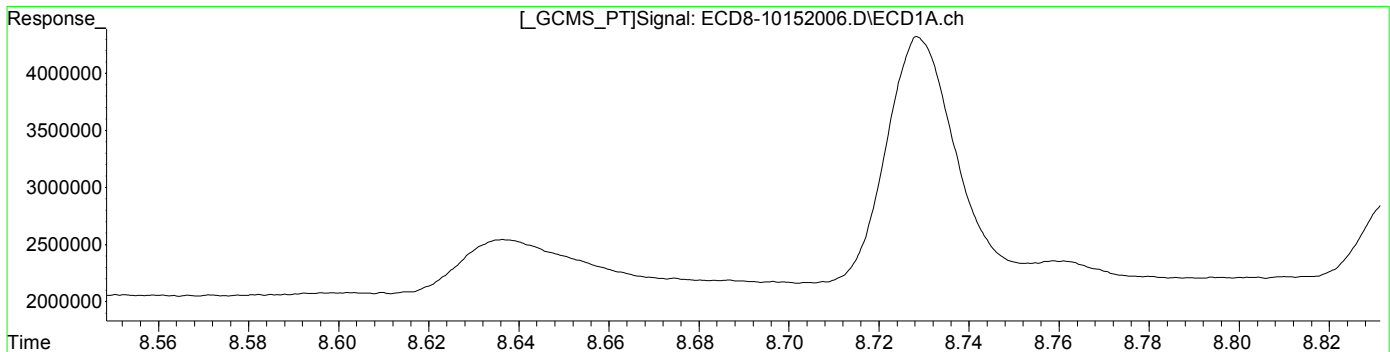


R = 5.85e+003 A\*A + 2.58e+006 A - 6.81e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

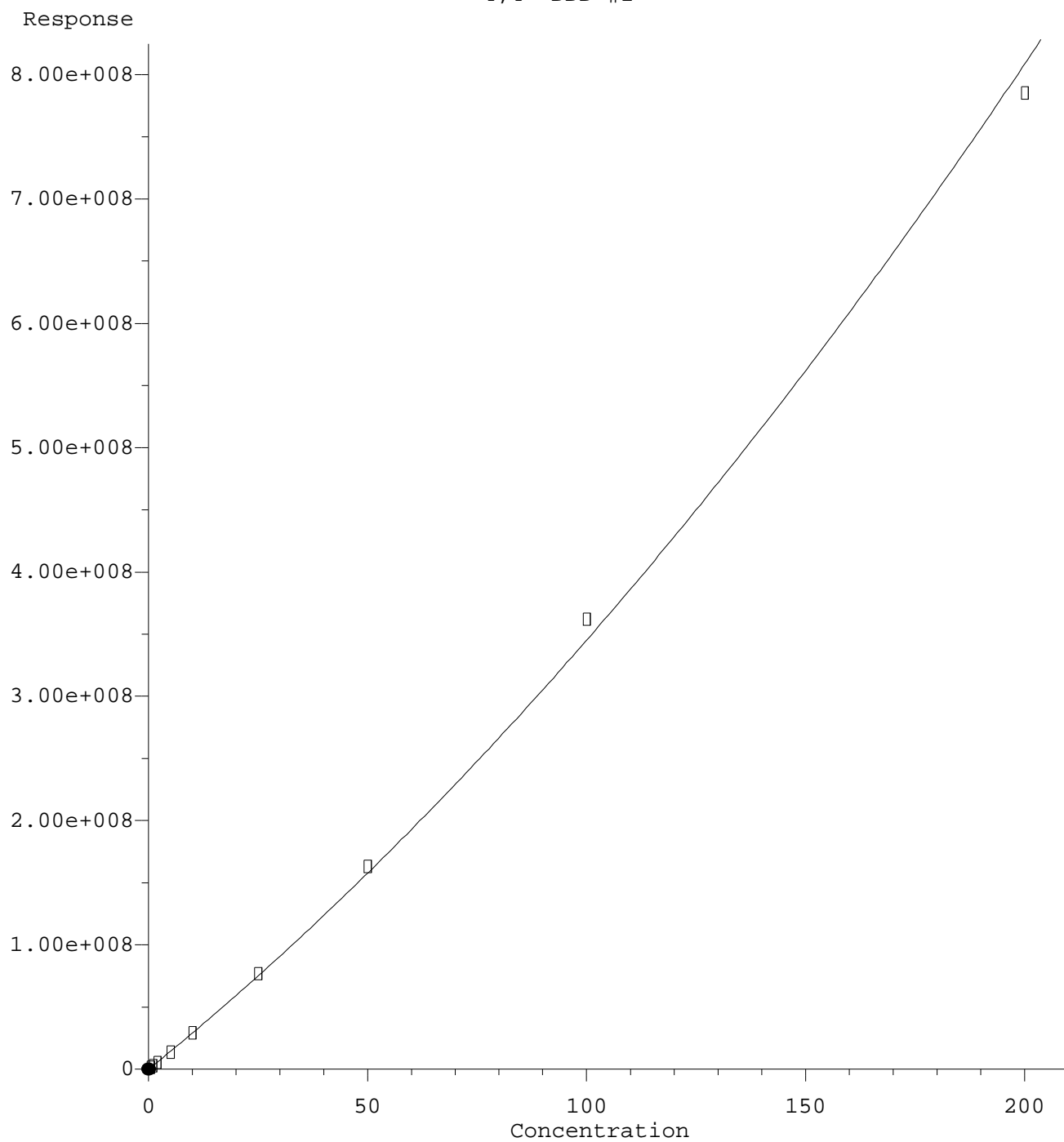
Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



QEdit

(14) Endrin	
8.271min 0.490 ng/mL	
response 1343181	
	MJB 10/21/20
(14) Endrin #2	
8.677min 0.074 ng/mL m	
response 123816	

4,4'-DDD #2

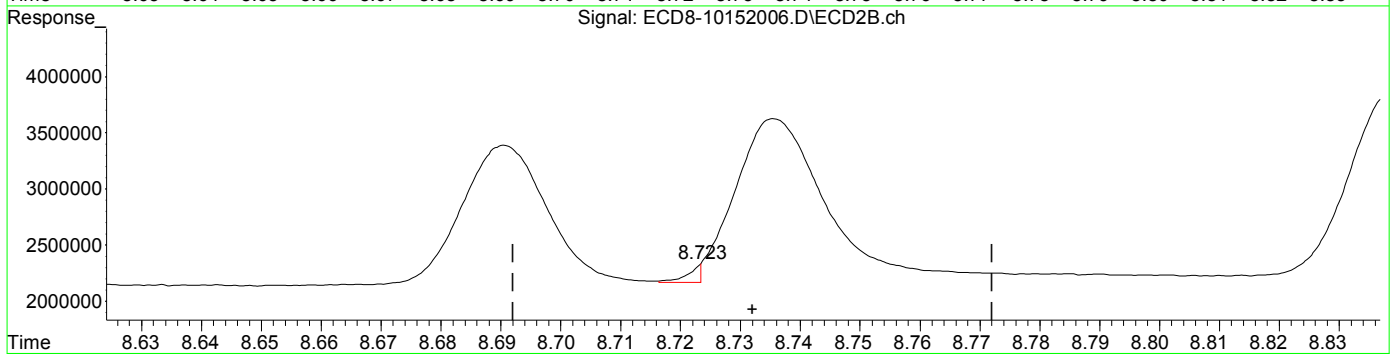
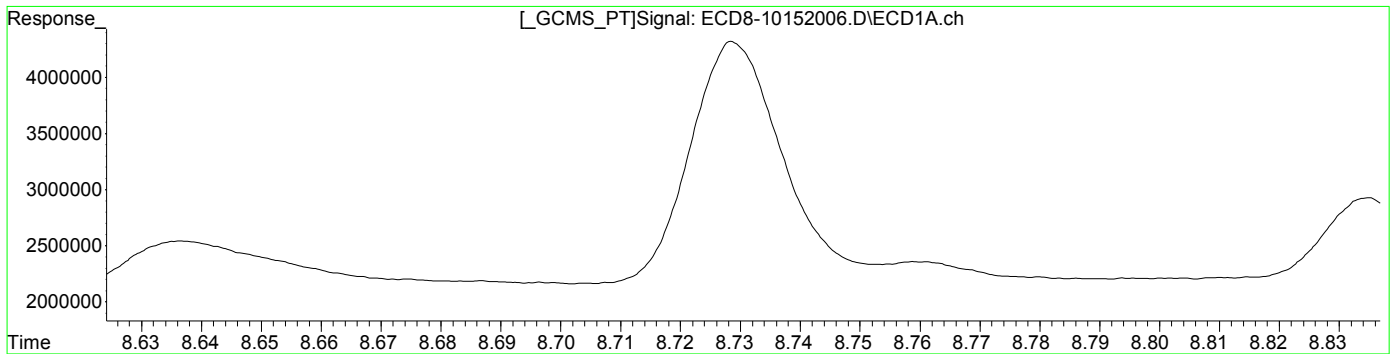


R = 5.94e+003 A\*A + 2.86e+006 A - 4.68e+003  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

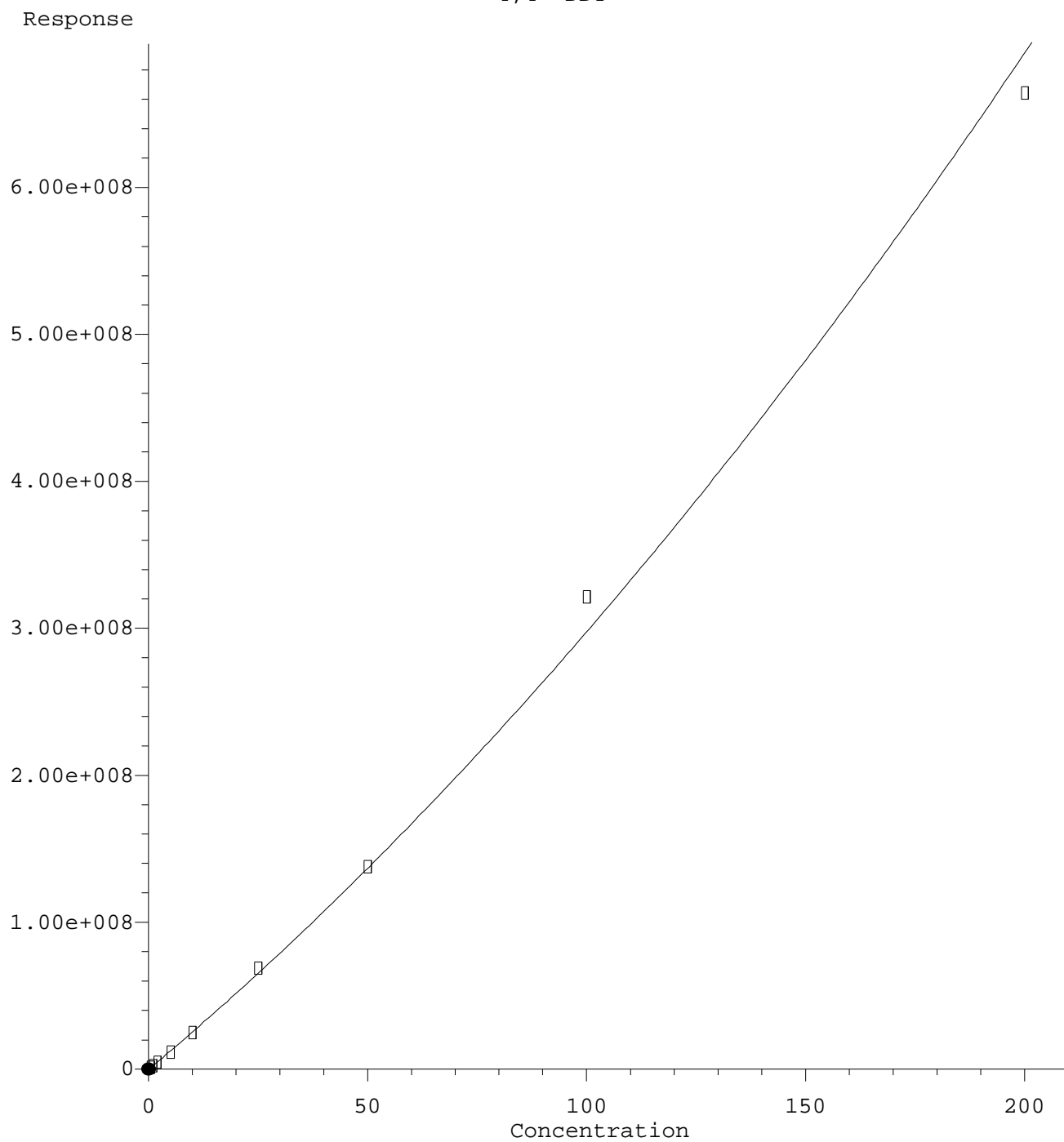


QEdit

(15) 4,4'-DDD	
8.309min	0.492 ng/mL
response	1338233
(15) 4,4'-DDD #2	
8.723min	0.060 ng/mL m
response	166696

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4,4'-DDT



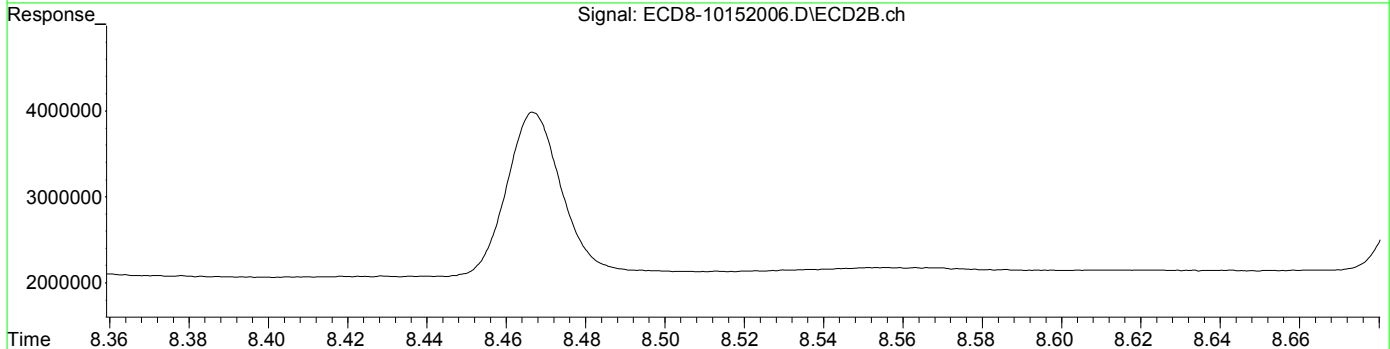
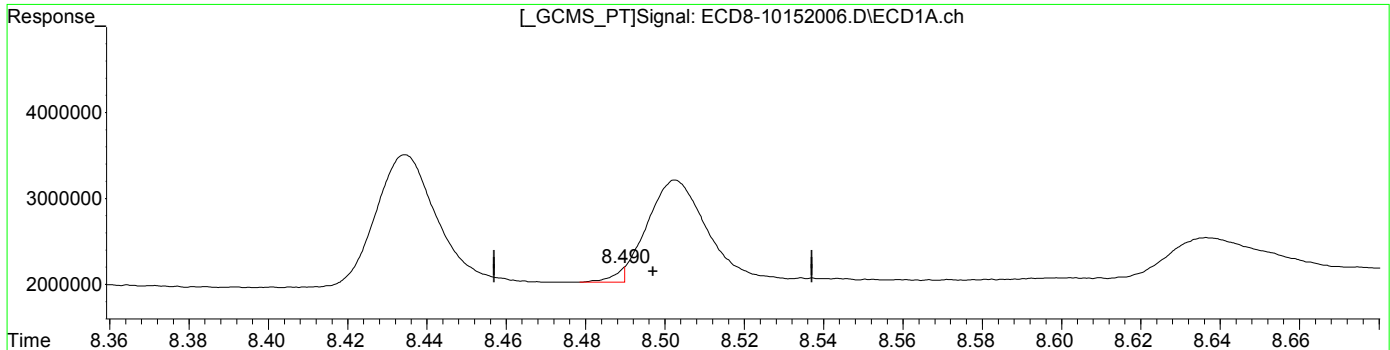
R = 4.83e+003 A\*A + 2.49e+006 A - 8.00e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

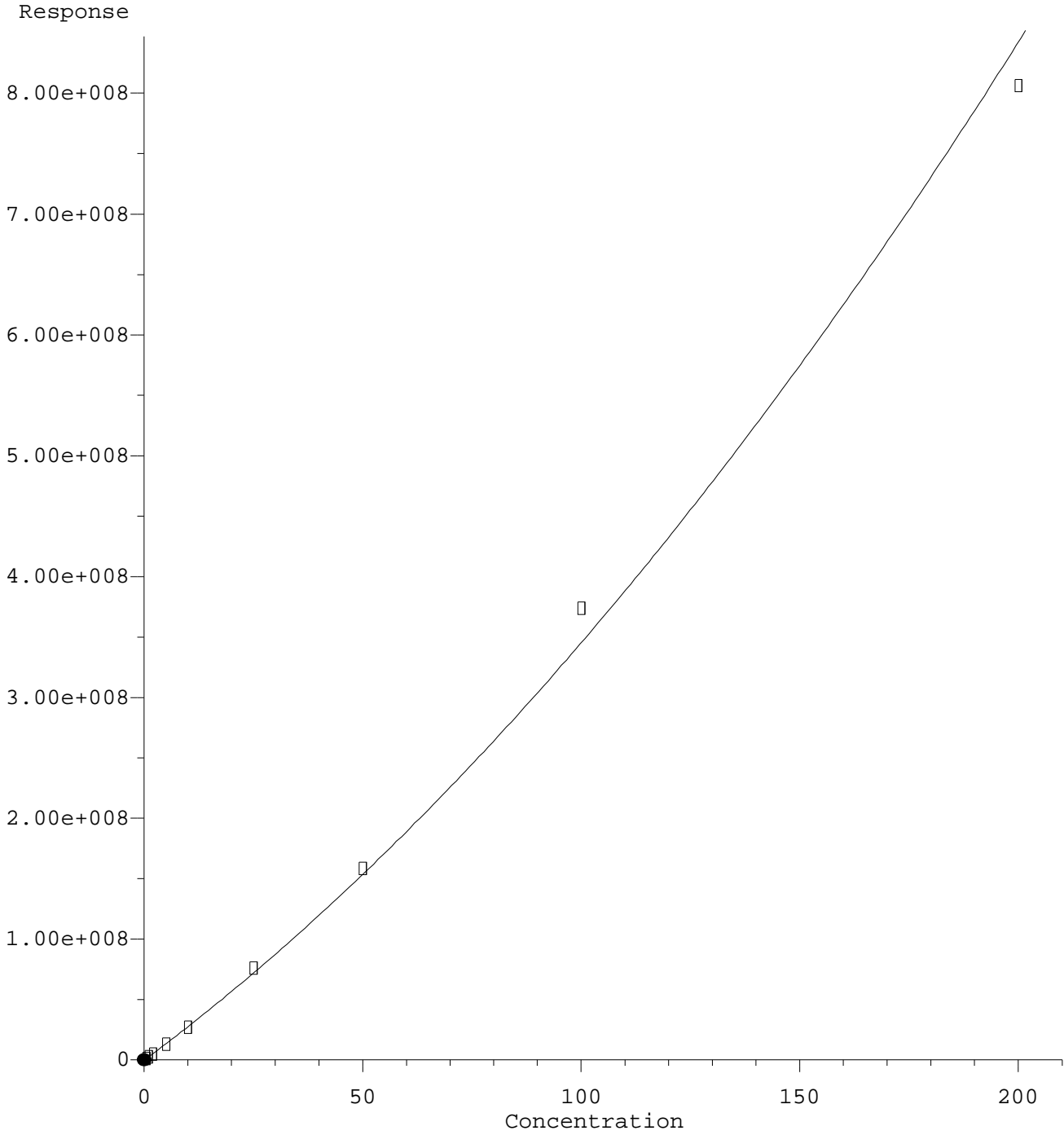


QEdit

(17) 4,4'-DDT	8.490min	0.100 ng/mL m	response 168389
(17) 4,4'-DDT #2	8.959min	0.519 ng/mL	response 1227833

MJB 10/21/20

4,4'-DDT #2

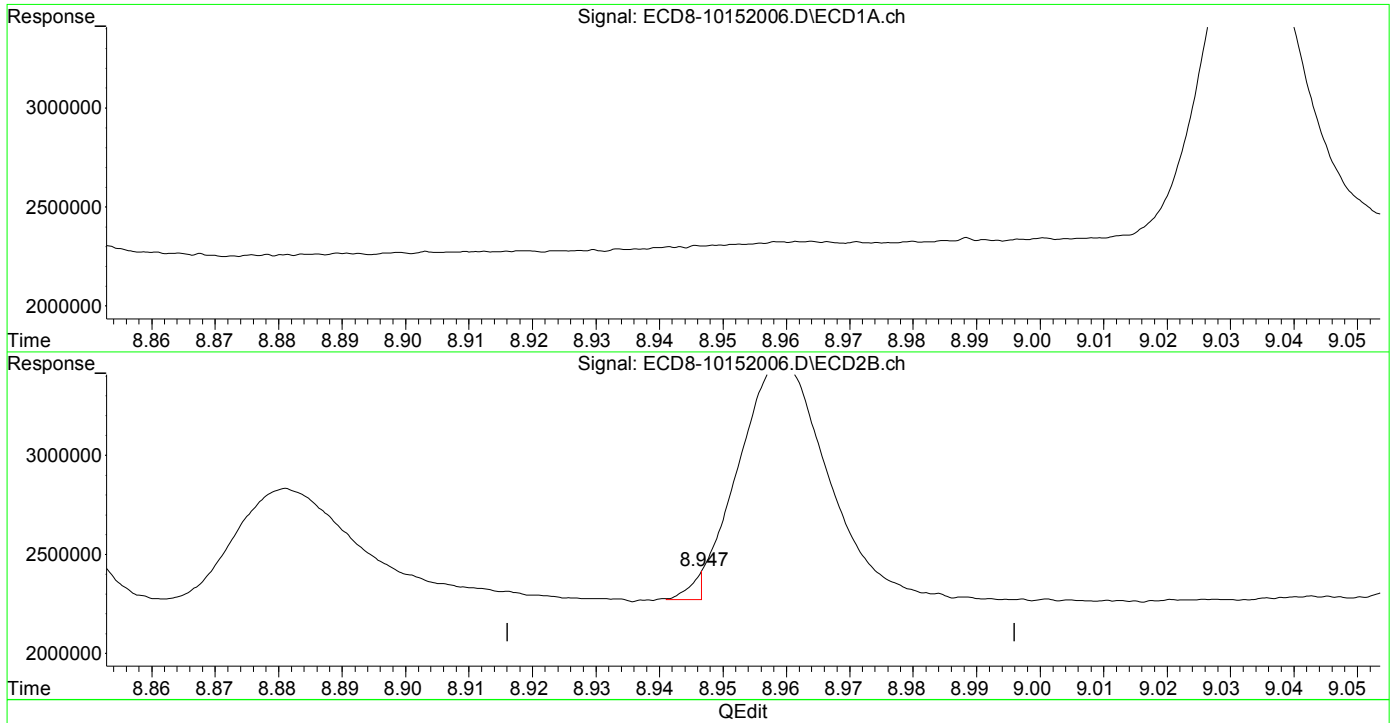


R = 7.61e+003 A\*A + 2.69e+006 A - 1.70e+005  
Coef of Det (r^2) = 0.996 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

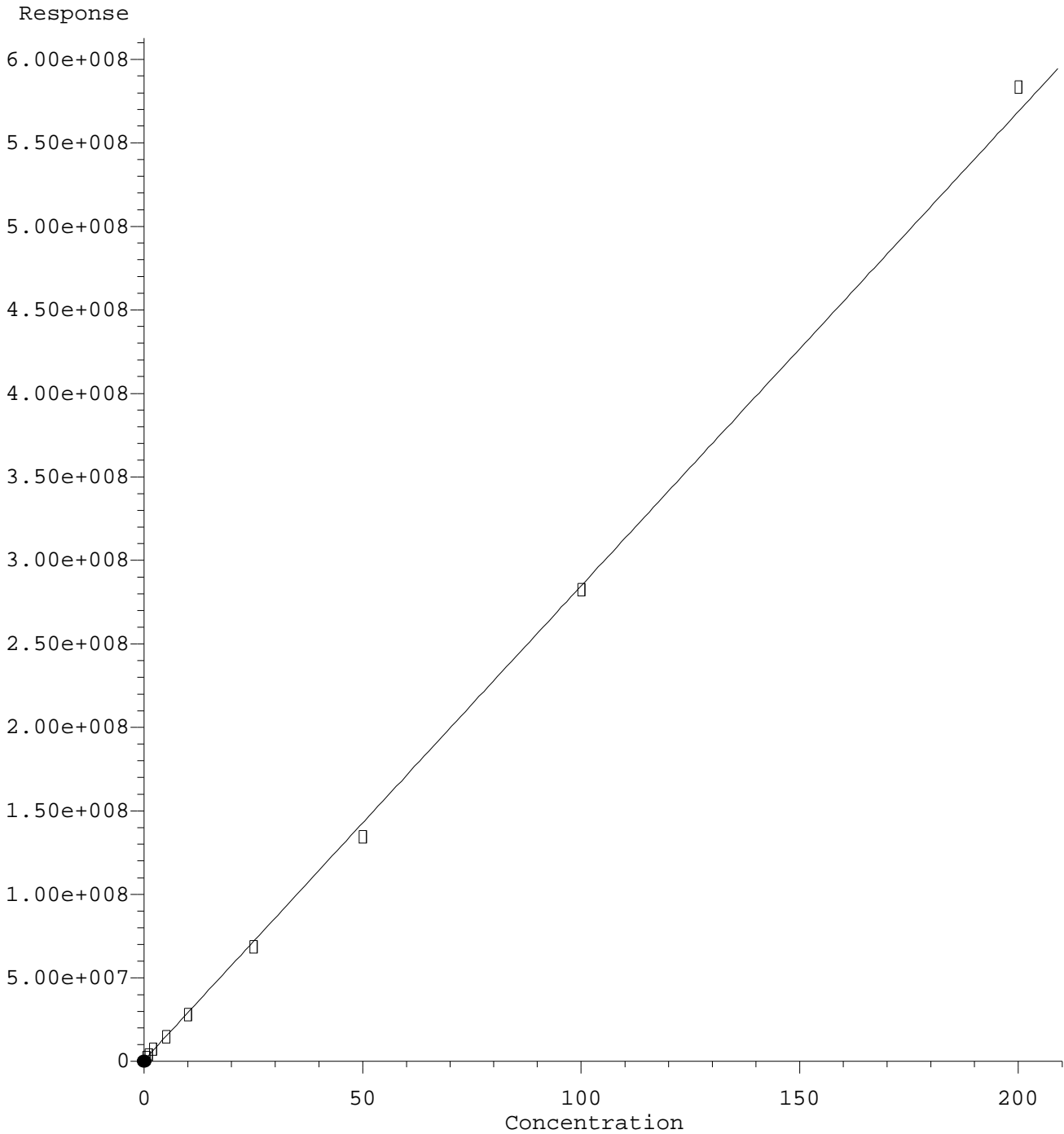


(17) 4,4'-DDT  
8.490min 0.100 ng/mL m  
response 168389

MJB 10/21/20

(17) 4,4'-DDT #2  
8.947min 0.117 ng/mL m  
response 144813

Endrin Aldehyde

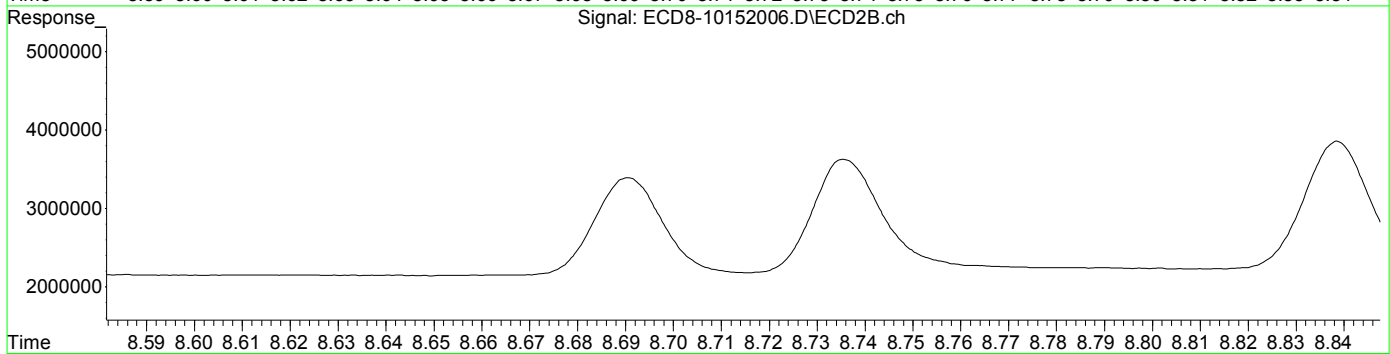
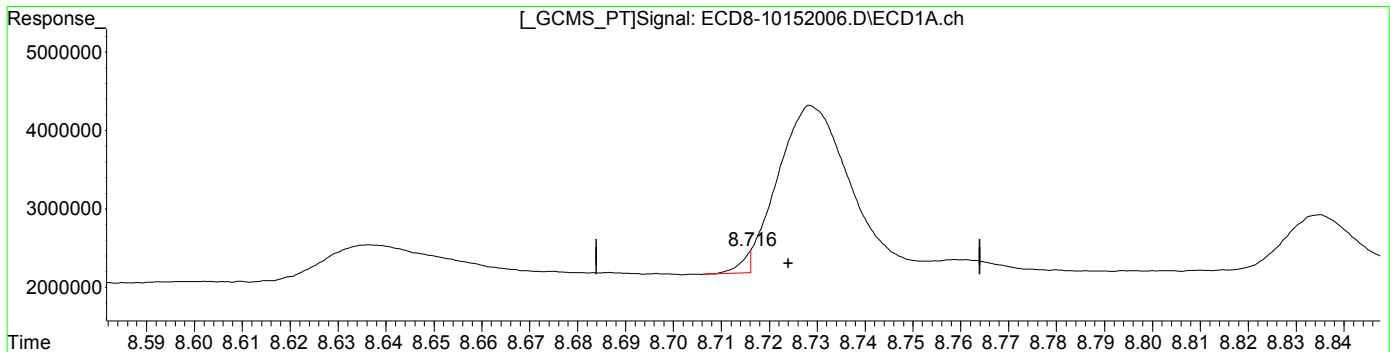


R = 1.05e+001 A\*A + 2.84e+006 A + 8.53e+005  
Coef of Det (r^2) = 0.993 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



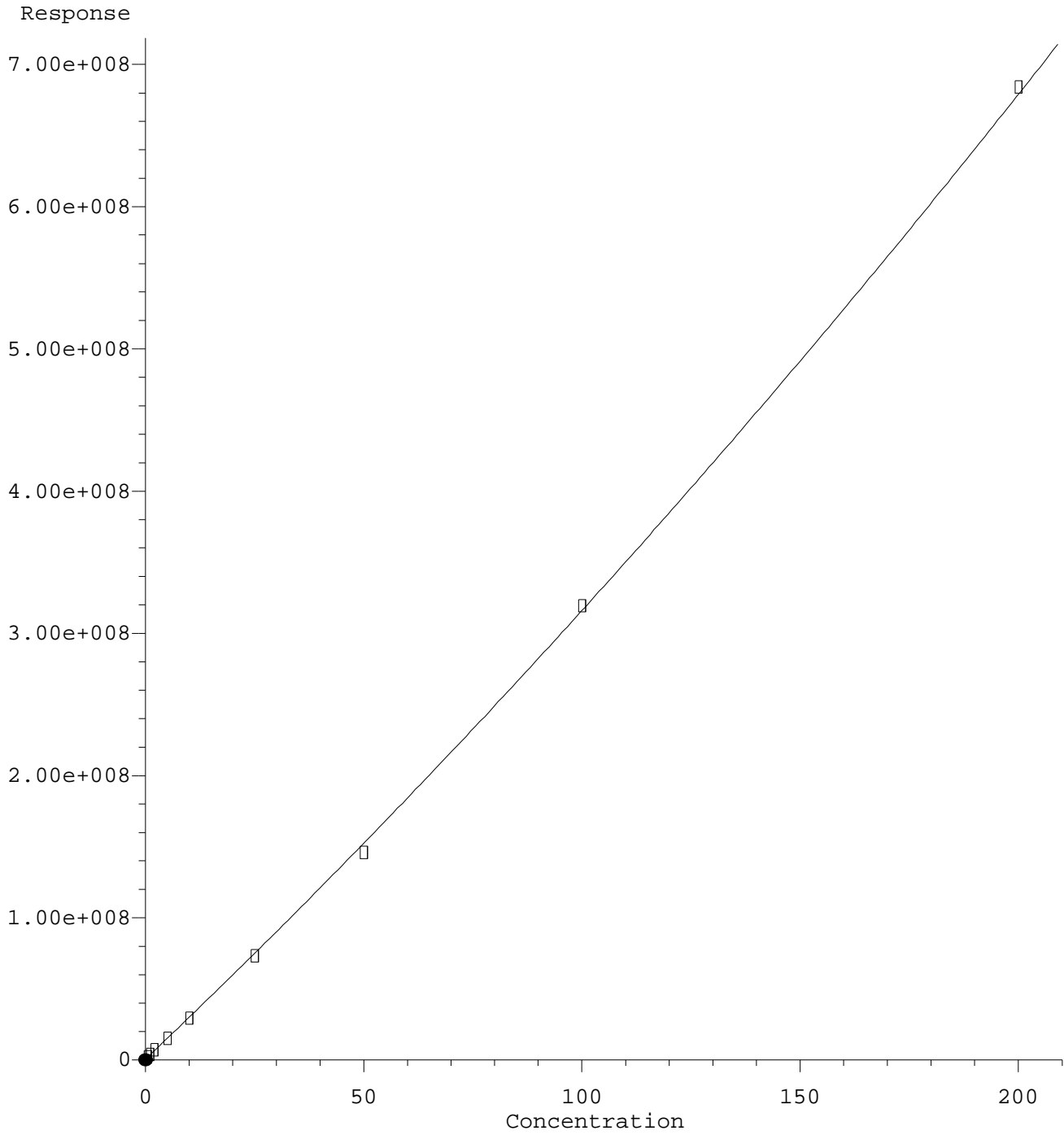
QEdit

(18) Endrin Aldehyde  
8.716min -0.203 ng/mL m  
response 277846

MJB 10/21/20

(18) Endrin Aldehyde #2  
9.073min 0.481 ng/mL  
response 2196243

Endrin Aldehyde #2

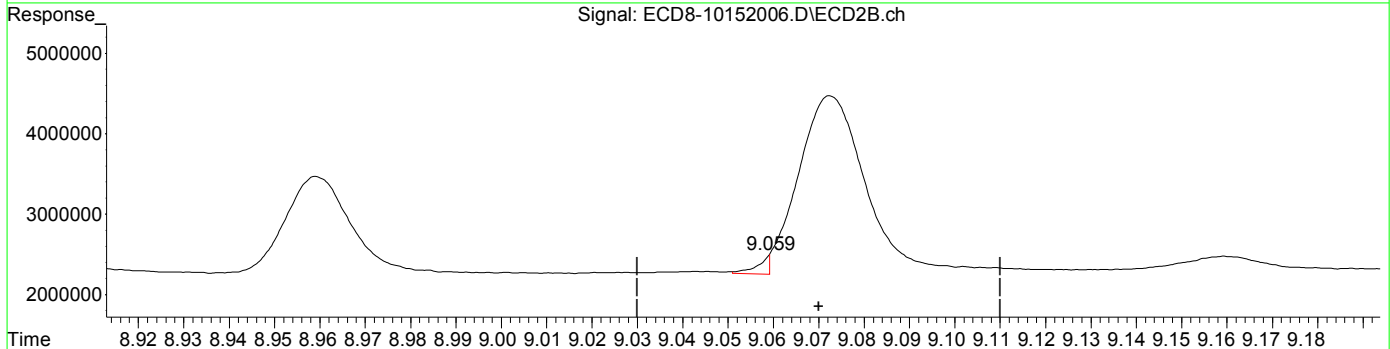
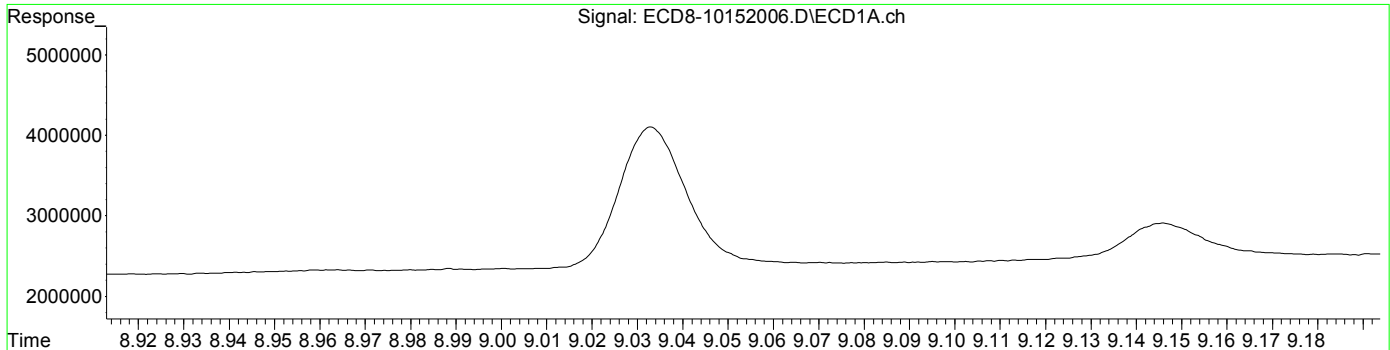


R = 2.40e+003 A\*A + 2.91e+006 A + 7.95e+005  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



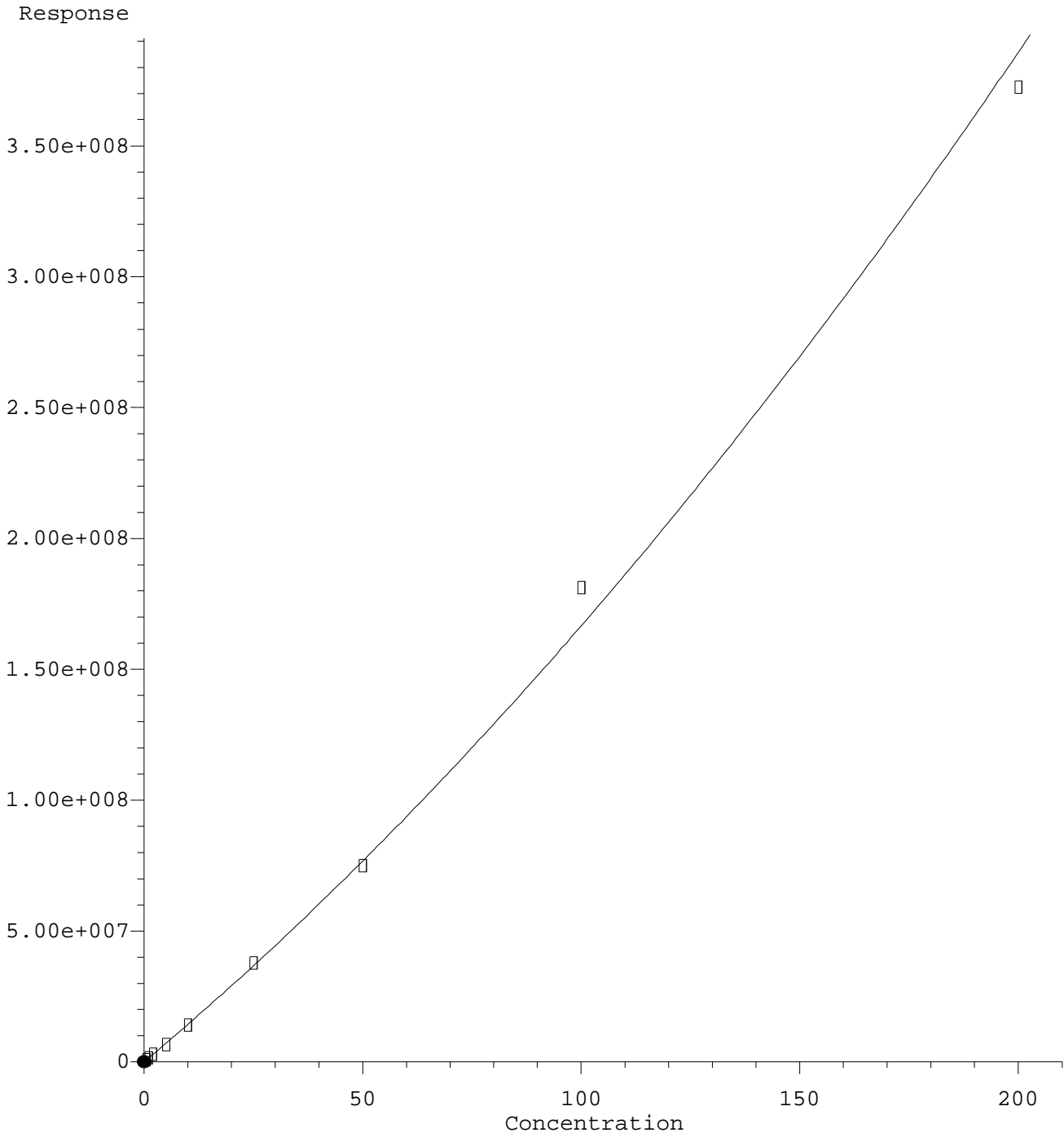
(18) Endrin Aldehyde  
8.716min -0.203 ng/mL m  
response 277846

MJB 10/21/20

(18) Endrin Aldehyde #2  
9.059min -0.190 ng/mL m  
response 241125

(+) = Expected Retention Time  
ECD8\_QUANTPEST\_201015.M Wed Oct 21 11:20:22 2020

Methoxychlor #2



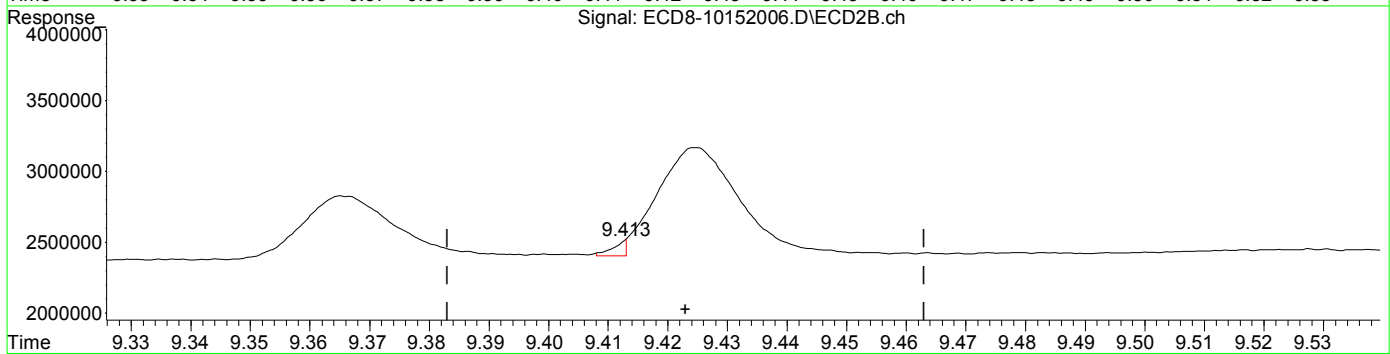
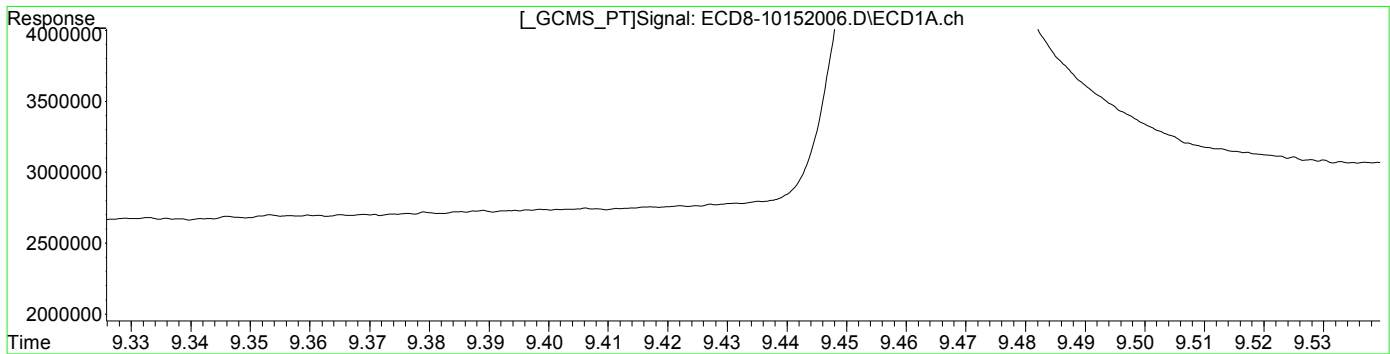
R = 2.64e+003 A\*A + 1.40e+006 A + 7.17e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



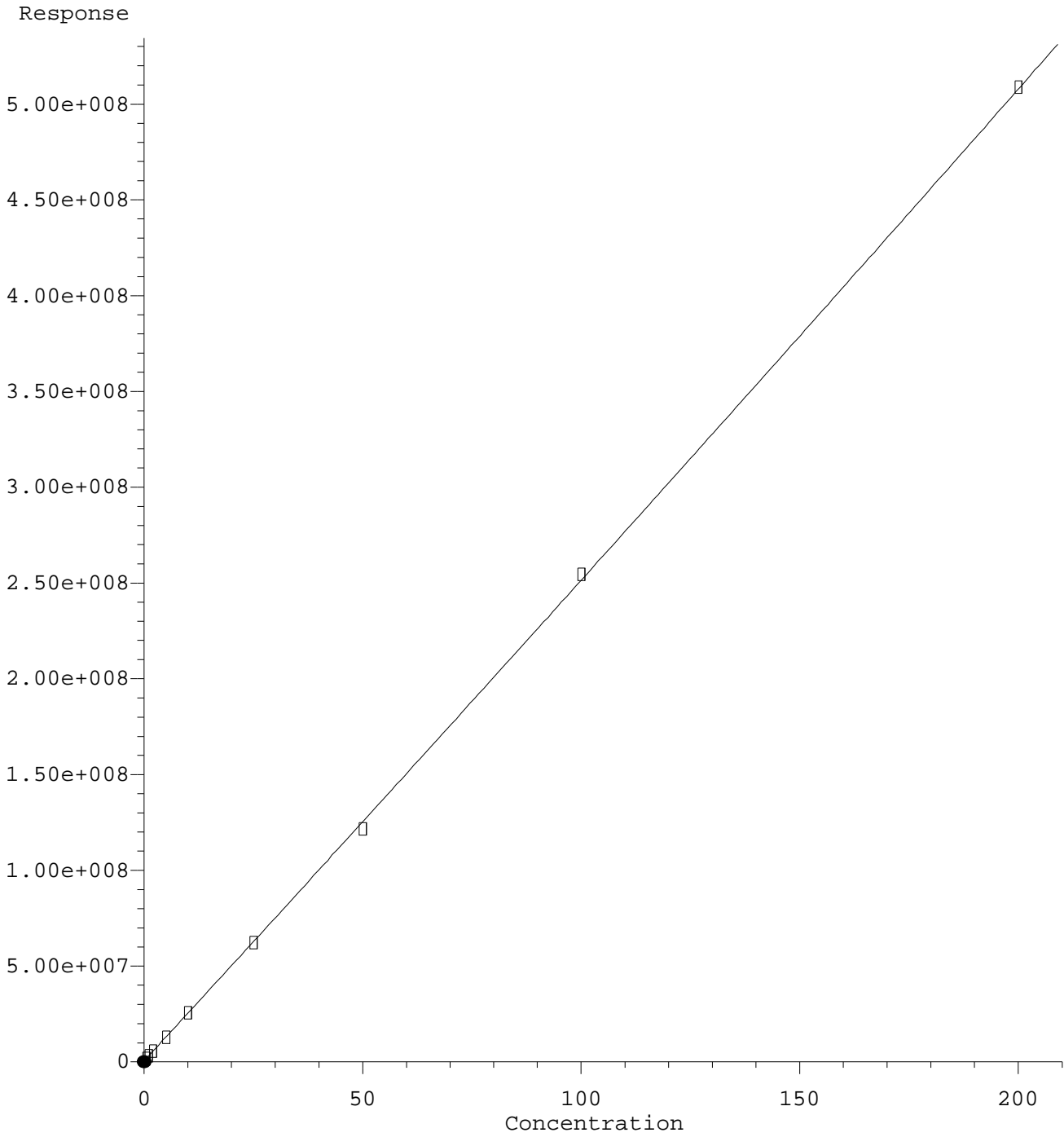
QEdit

(20) Methoxychlor  
8.835min 0.518 ng/mL  
response 712510

MJB 10/21/20

(20) Methoxychlor #2  
9.413min 0.025 ng/mL m  
response 107142

DCBP (S)

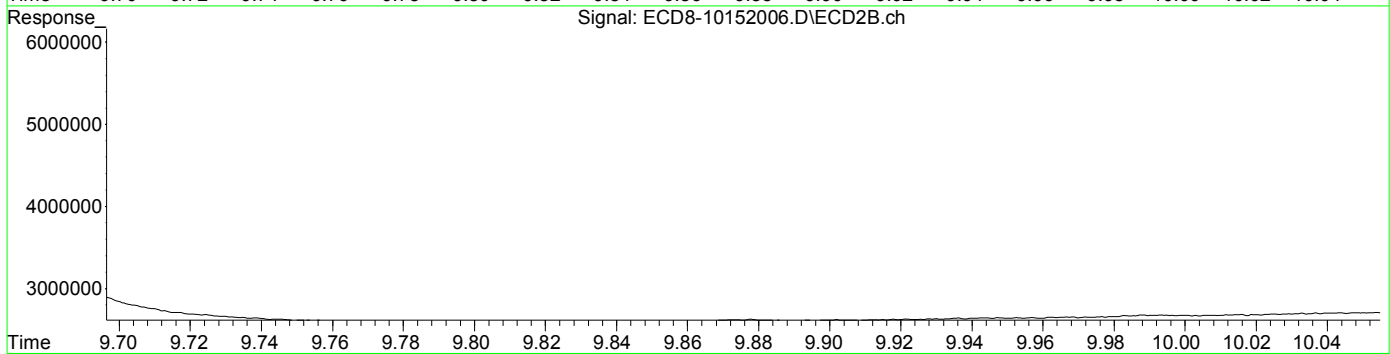
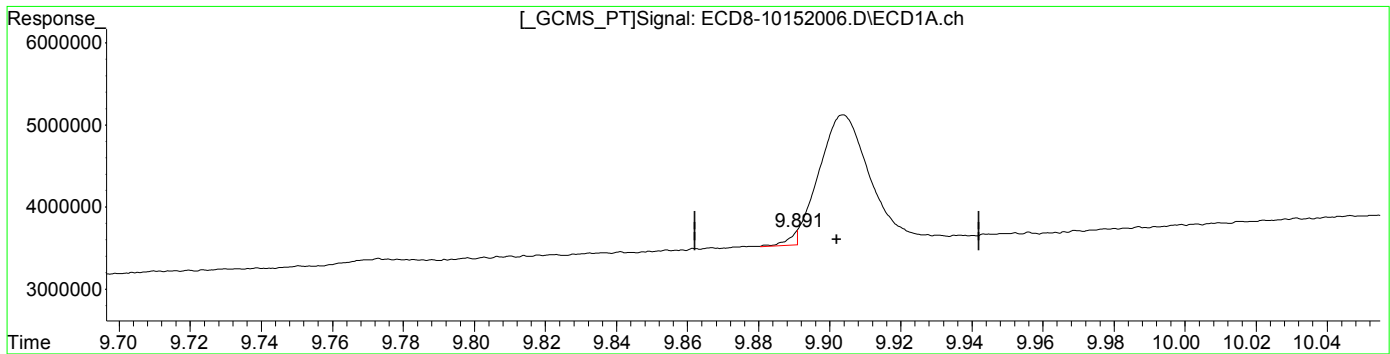


R = 2.90e+002 A\*A + 2.48e+006 A + 6.49e+005  
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



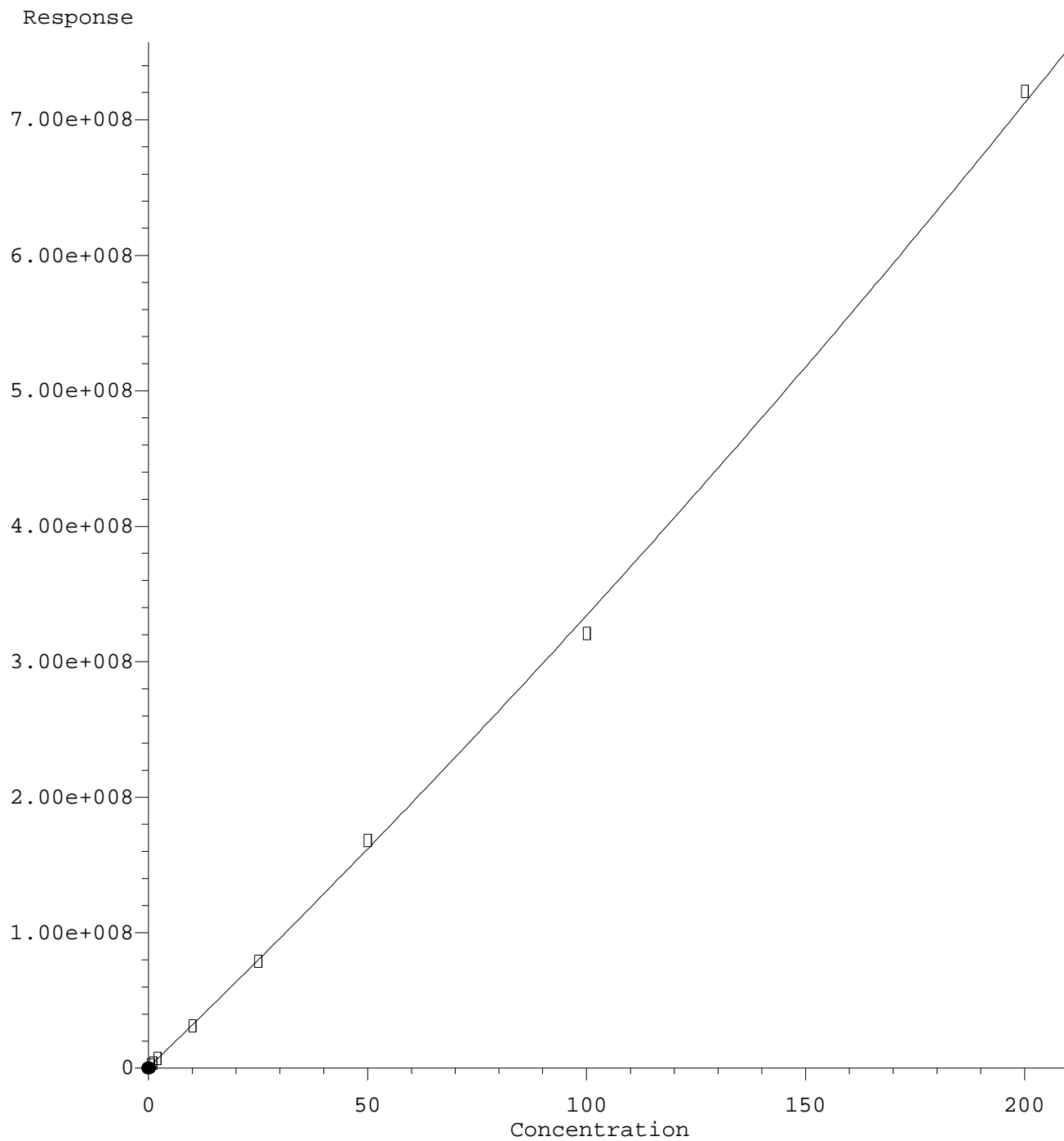
QEdit

(22) DCBP (S) (S)  
9.891min -0.195 ng/mL m  
response 165253

MJB 10/21/20

(22) DCBP (S) #2 (S)  
10.506min 0.583 ng/mL  
response 1410803

Hexachlorobutadiene

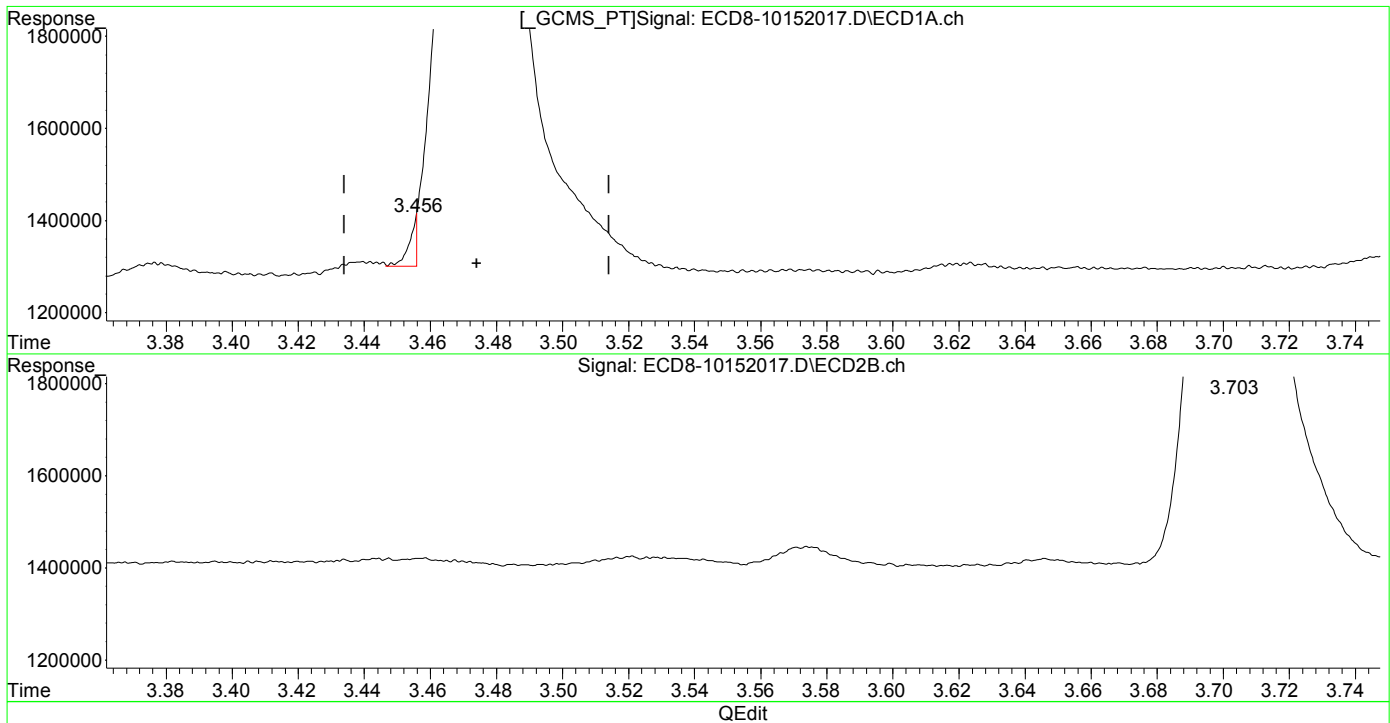


R = 2.25e+003 A\*A + 3.11e+006 A + 6.88e+005  
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:32:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

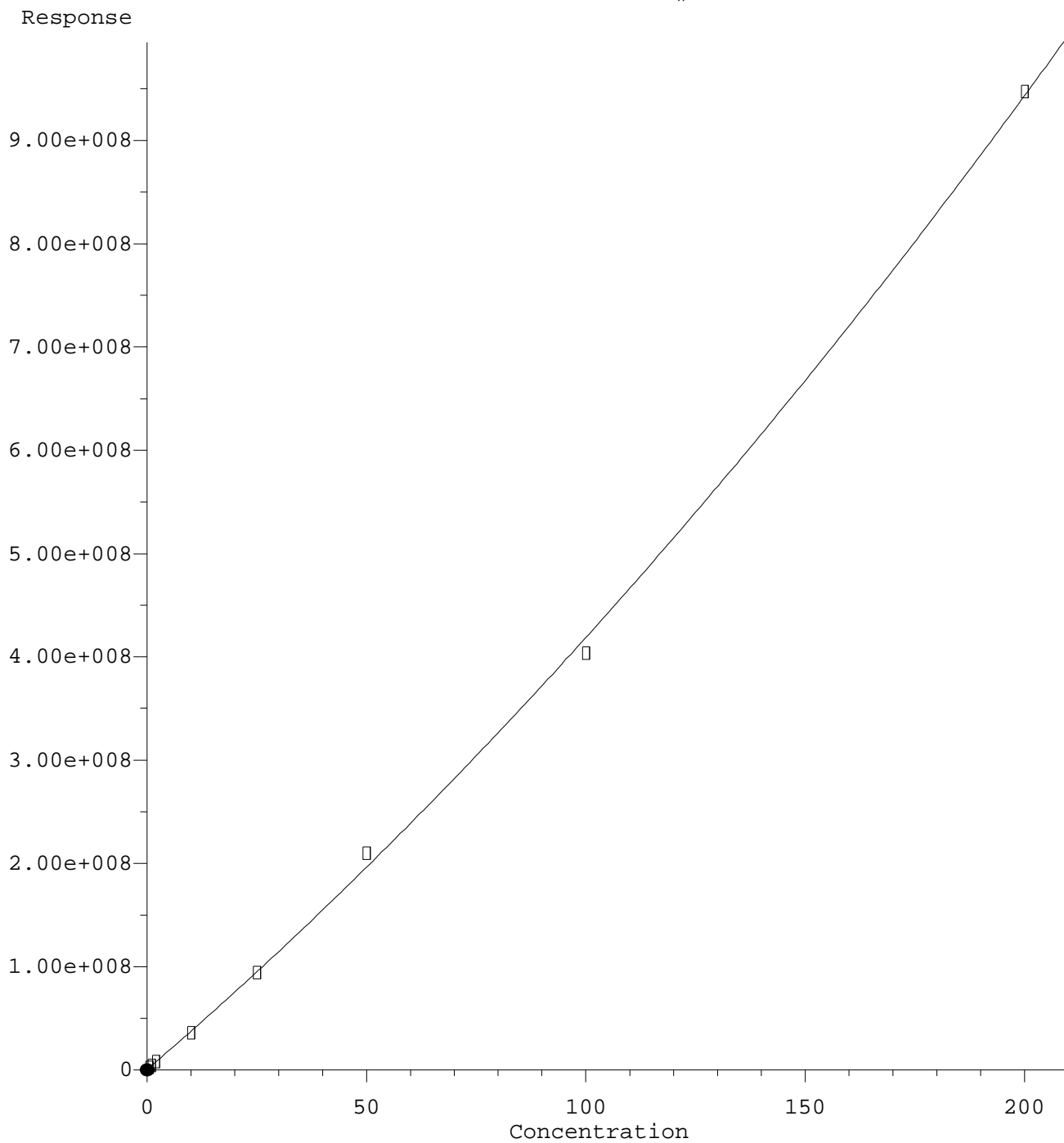


(23) Hexachlorobutadiene  
3.456min -0.187 ng/mL m  
response 108144

MJB 10/21/20

(23) Hexachlorobutadiene #2  
3.703min 0.500 ng/mL  
response 2507236

Hexachlorobutadiene #2

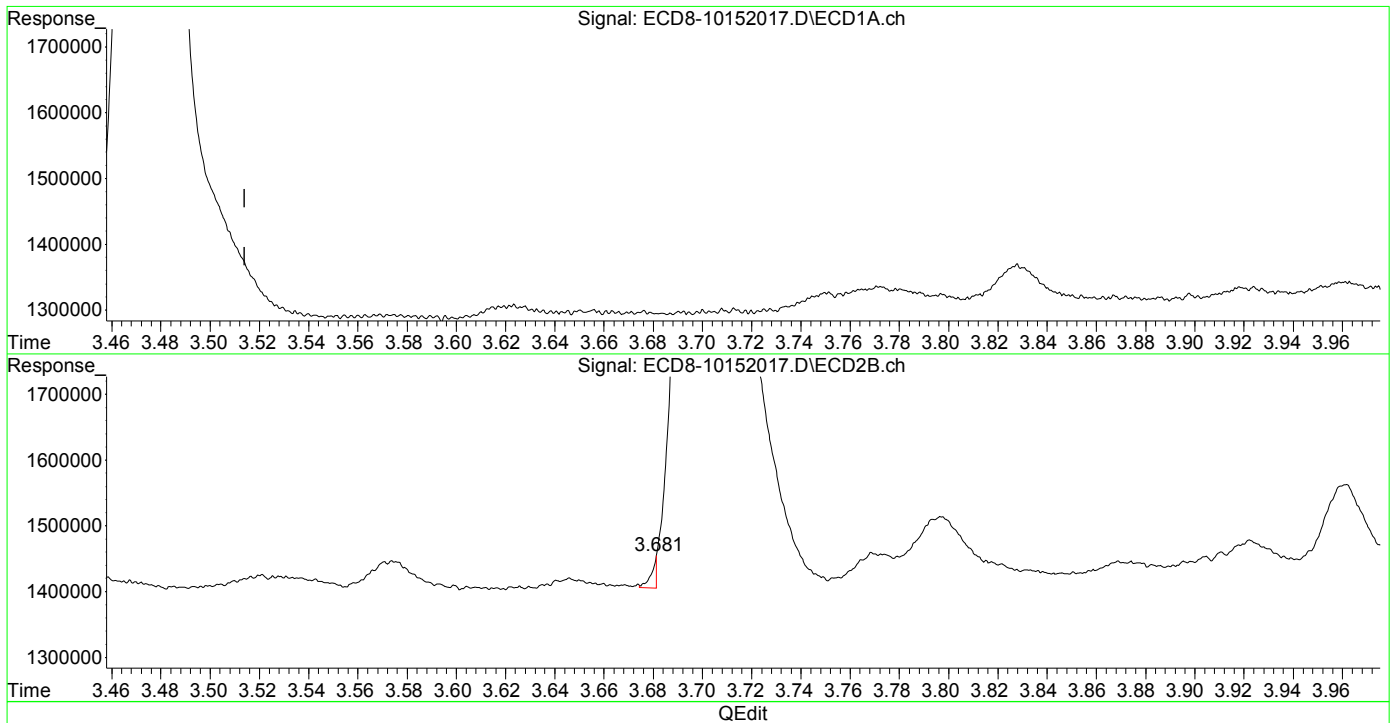


R = 5.35e+003 A\*A + 3.64e+006 A + 6.85e+005  
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:32:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

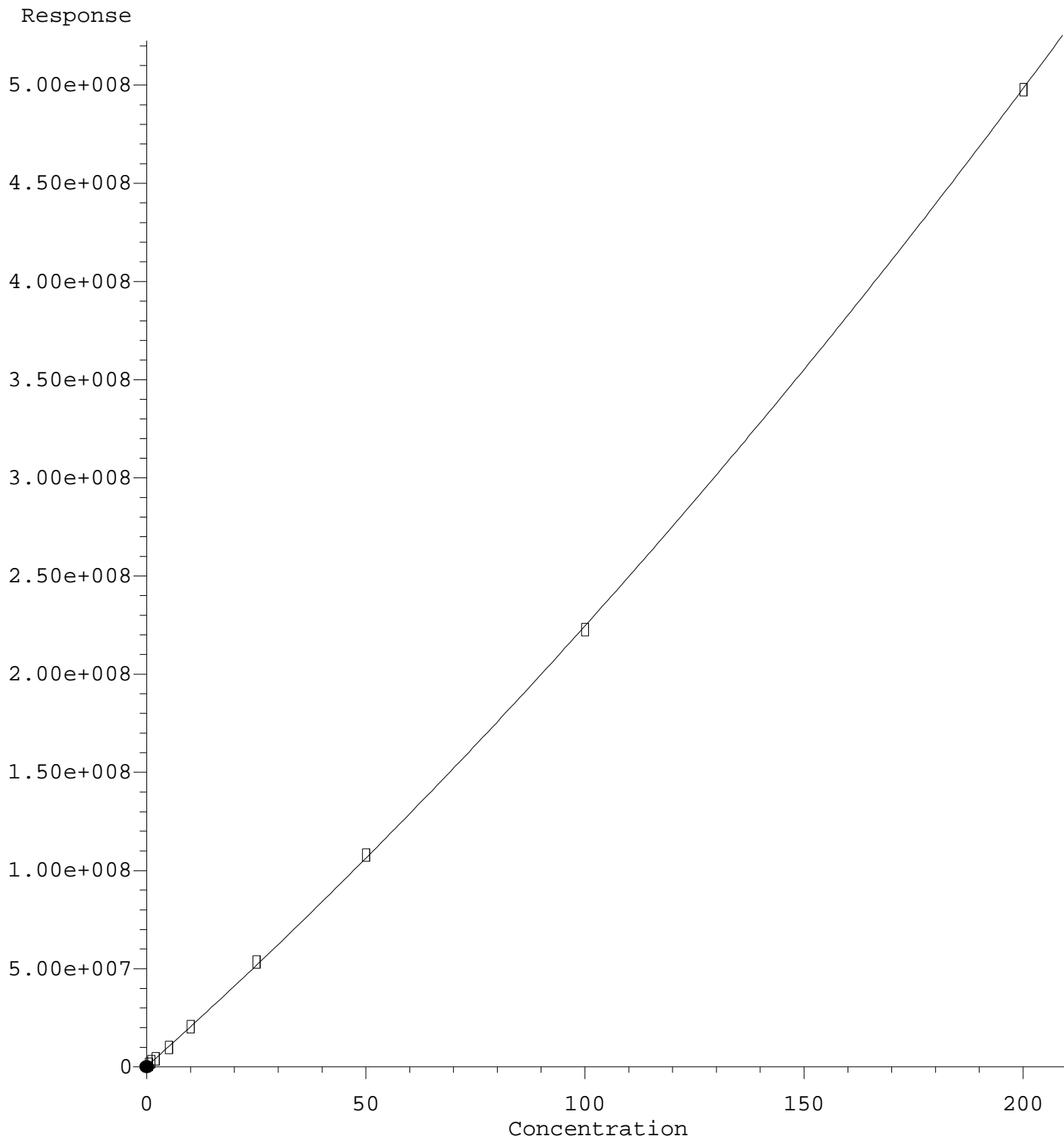


(23) Hexachlorobutadiene  
3.456min -0.187 ng/mL m  
response 108144

MJB 10/21/20

(23) Hexachlorobutadiene #2  
3.681min -0.174 ng/mL m  
response 49437

2,4'-DDD #2



$R = 2.49e+003 A^2 + 1.99e+006 A + 3.53e+005$

Coef of Det ( $r^2$ ) = 0.998 Curve Fit: Quadratic w(1/a<sup>2</sup>)

Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M

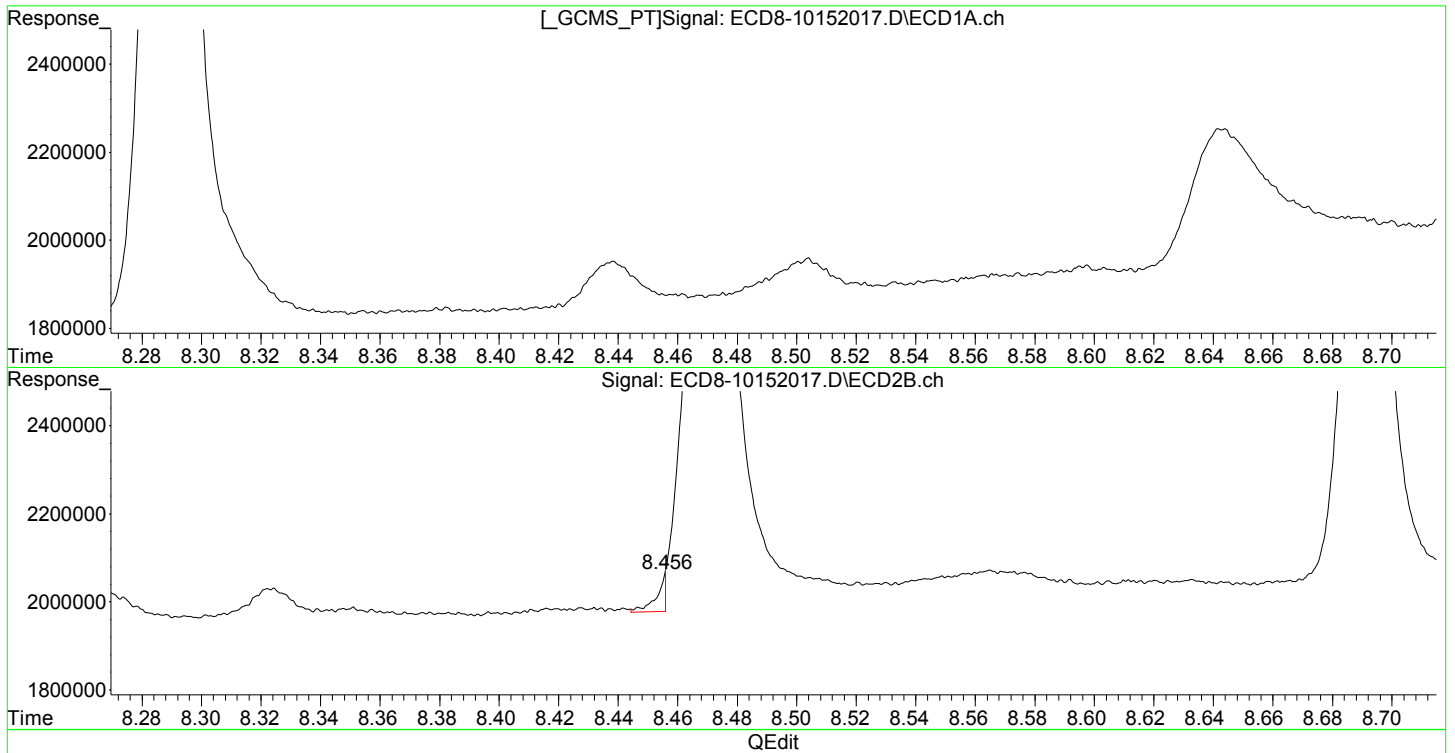
Calibration Table Last Updated: Wed Oct 21 13:18:48 2020



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:40:51 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

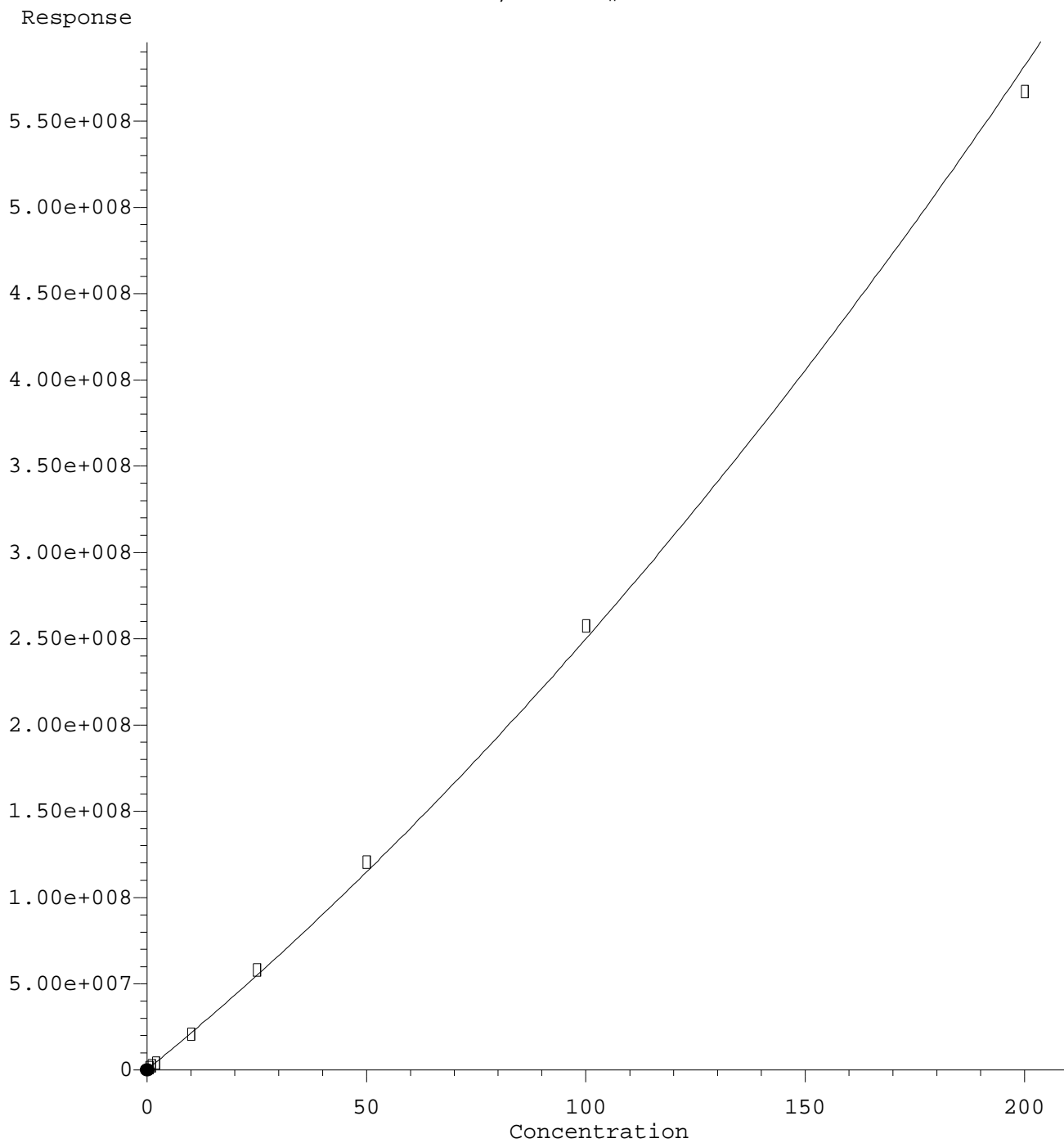


(28) 2,4'-DDD  
8.006min 0.586 ng/mL  
response 1125210

MJB 10/21/20

(28) 2,4'-DDD #2  
8.456min -0.134 ng/mL m  
response 86901

2,4'-DDT #2

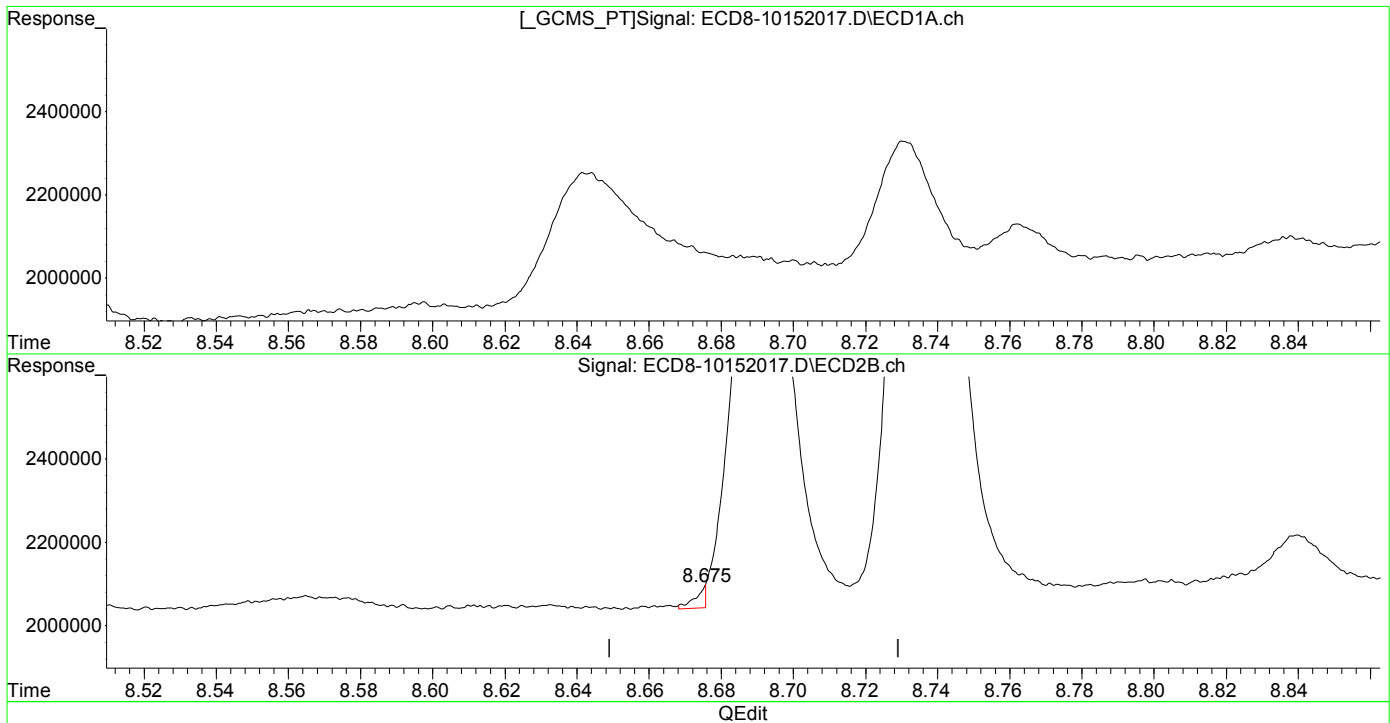


R = 4.13e+003 A\*A + 2.08e+006 A + 2.88e+005  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:32:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

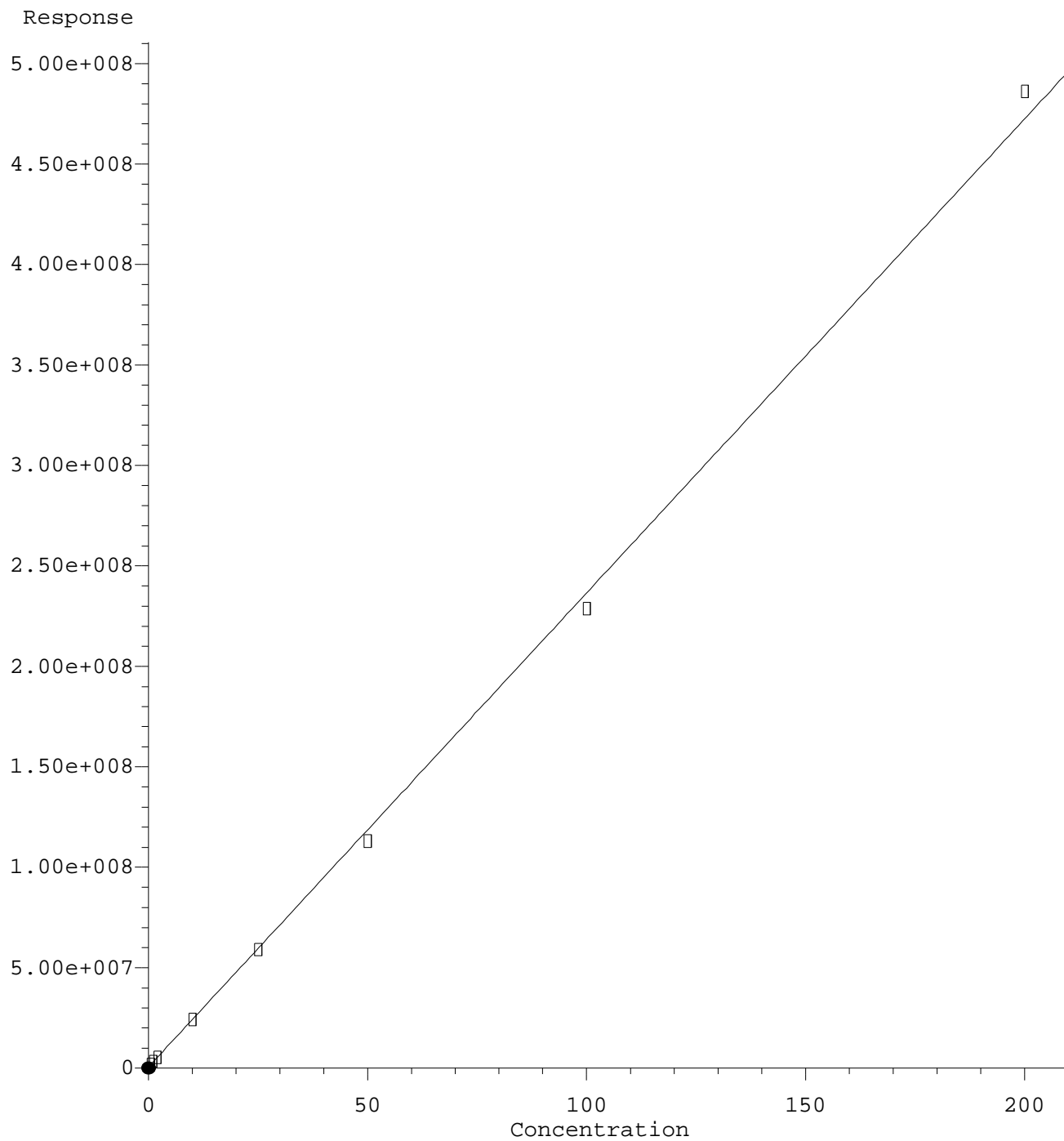


(29) 2,4'-DDT  
8.185min 0.562 ng/mL  
response 1221609

MJB 10/21/20

(29) 2,4'-DDT #2  
8.675min -0.115 ng/mL m  
response 49306

Mirex

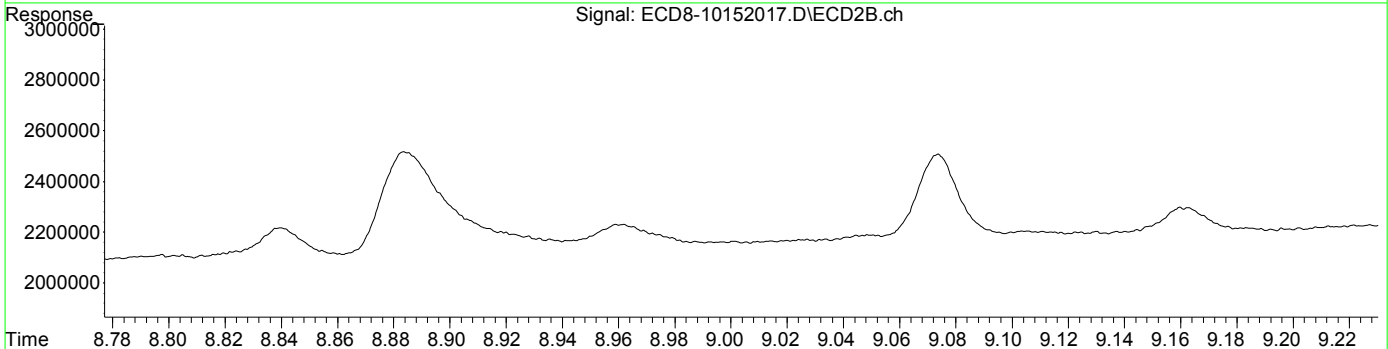
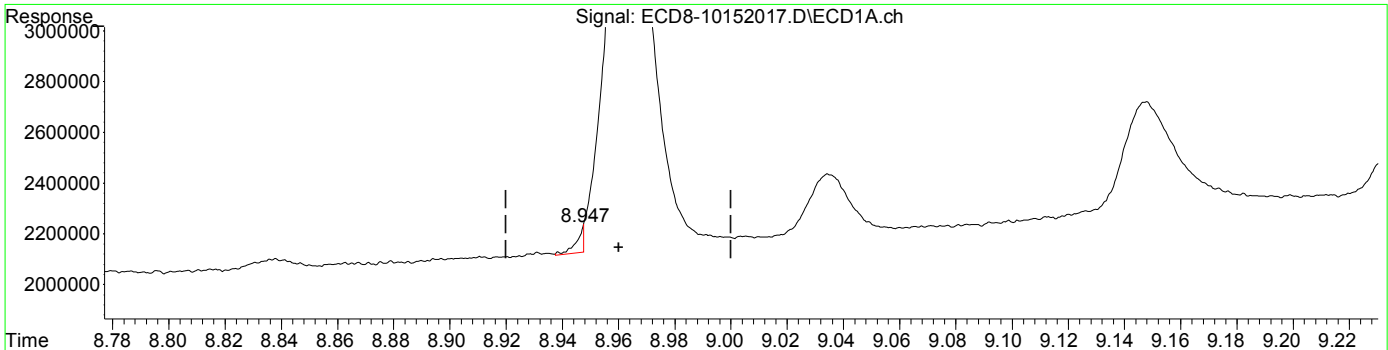


R = 1.61e+001 A\*A + 2.36e+006 A + 7.10e+005  
Coef of Det (r^2) = 0.997 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:32:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation

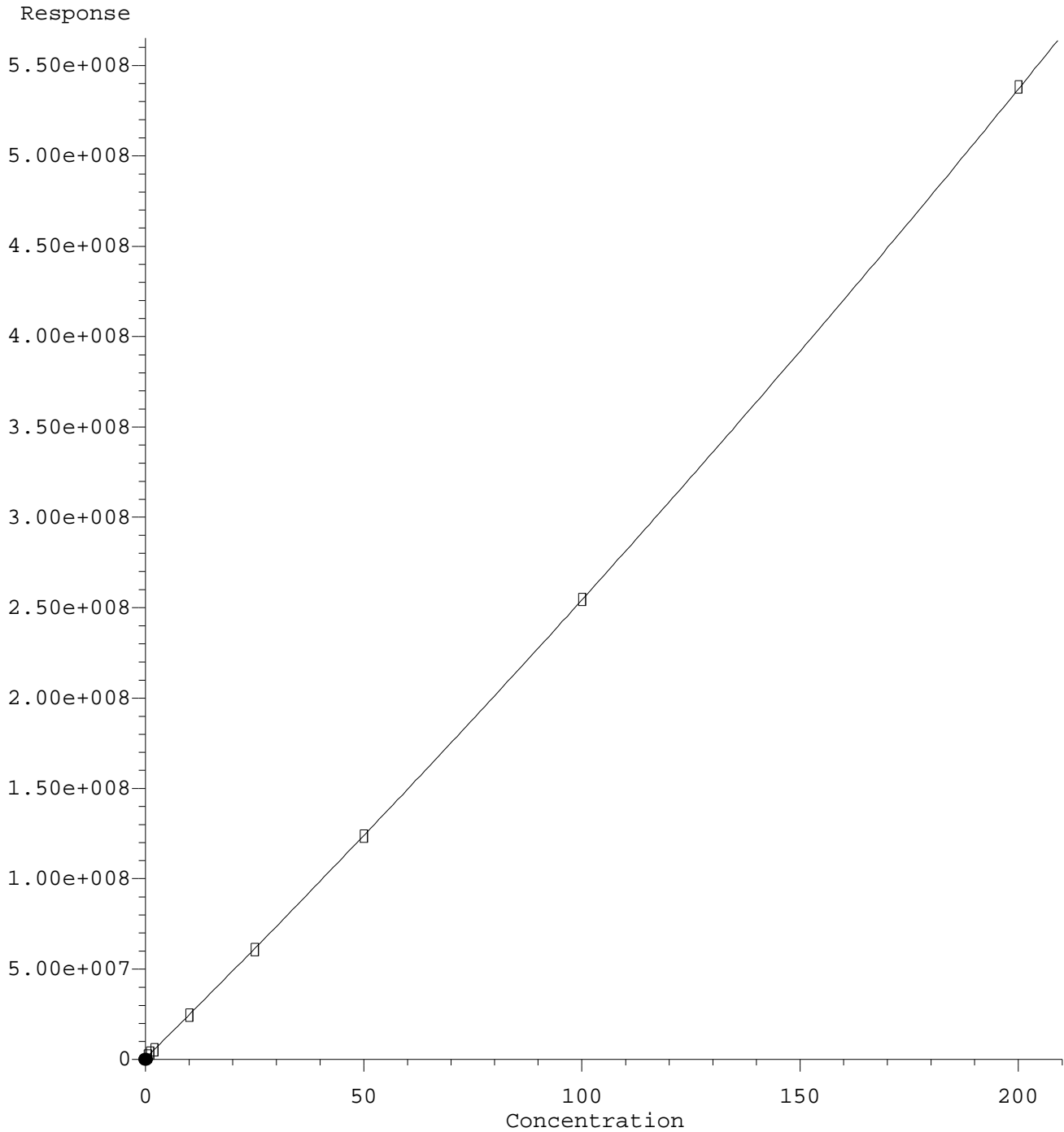


QEdit

(31) Mirex	8.947min	-0.258 ng/mL m	response 102577
(31) Mirex #2	9.647min	0.479 ng/mL	response 1941278

MJB 10/21/20

Mirex #2

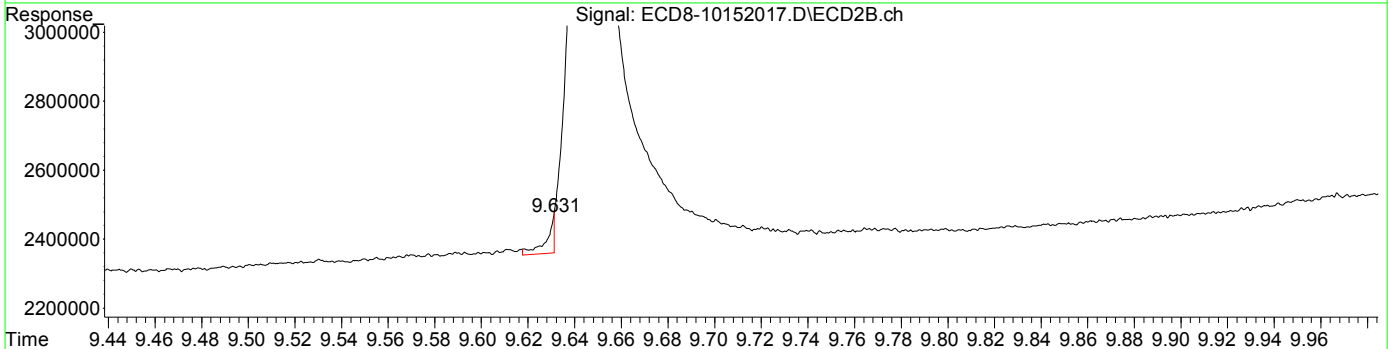
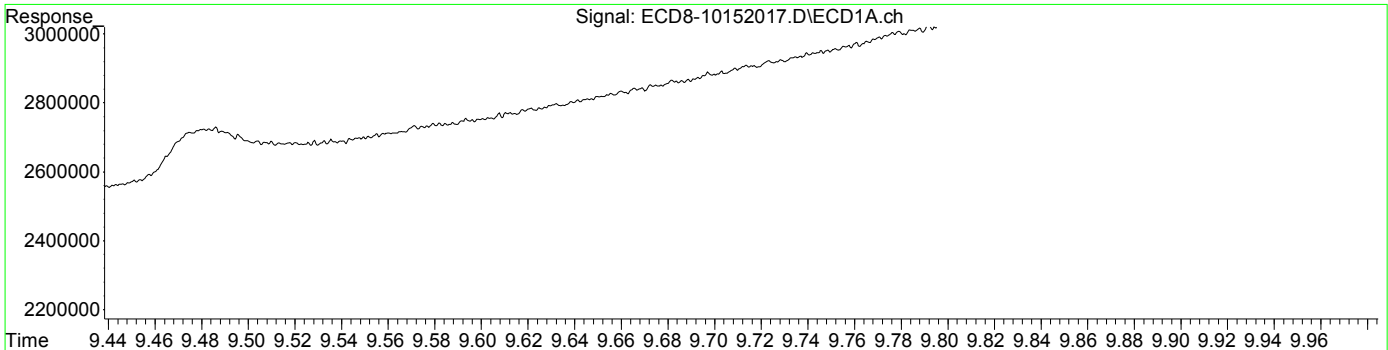


R = 1.46e+003 A\*A + 2.39e+006 A + 7.96e+005  
Coef of Det (r^2) = 0.998 Curve Fit: Quadratic w(1/a^2)  
Method Name: C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Calibration Table Last Updated: Tue Oct 20 17:23:54 2020

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:32:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



QEdit

(31) Mirex  
8.947min -0.258 ng/mL m  
response 102577

MJB 10/21/20

(31) Mirex #2  
9.631min -0.289 ng/mL m  
response 107309

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152005.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:15  
 Operator : MJB  
 Sample : 0J15061-ICB1  
 Misc : A2J148  
 ALS Vial : 3 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 15:09:10 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	325.7E6	406.3E6	92.097	101.562
22) S DCBP (S)	9.903	10.505	237.7E6	227.6E6	94.618	94.095
Target Compounds						
2) a-BHC	6.233	6.585	19692	9789	0.004	0.002 #
3) g-BHC	6.520	6.899	57479	16241	0.014	0.003 #
4) b-BHC	6.610	6.969	28088	41528	0.018	0.021
5) Heptachlor	6.919	7.275	6718	23095	0.002	0.005 #
6) d-BHC	6.761	7.220	95222	133913	0.089	0.100
7) Aldrin	0.000	7.539	0	24718	N.D.	0.006 #
8) Heptachlo...	7.629	7.974	33415	52590	0.009	0.013 #
9) trans-Chl...	7.711	8.088f	211868	9996	0.058	0.003 #
10) cis-Chlor...	7.821	8.219	24719	41602	0.007	0.011 #
11) Endosulfa...	7.925	8.273	40863	39560	0.012	0.011
12) 4,4'-DDE	7.877	8.323	126080	35044	0.040	0.058 #
13) Dieldrin	8.101	8.469	29561	42373	0.008	0.028 #
14) Endrin	8.274	8.693	195545	50076	0.071	0.046 #
15) 4,4'-DDD	8.287	8.760f	160952	323811	0.059	0.115 #
16) Endosulfa...	8.433	8.838	86085	110008	0.029	0.034
17) 4,4'-DDT	8.485	8.950	62095	43976	0.057	0.080 #
18) Endrin Al...	8.728	9.072	699614	705319	BelowCal	BelowCal
19) Endosulfa...	9.032	9.267	179935	189830	0.060	0.057
20) Methoxychlor	8.834	9.422	70846	45007	0.051	BelowCal #
21) Endrin Ke...	9.234	9.657	106550	134188	0.029	0.034
23) Hexachlor...	3.477	3.717	10074	45591	BelowCal	BelowCal
24) Hexachlor...	6.070	6.453	656010	44327	0.196	0.011 #
25) Oxychlorane	7.538	7.888	18346	62419	0.006	0.018 #
26) 2,4'-DDE	7.629	8.088	33415	9996	0.016	0.004 #
27) trans-Non...	7.809	8.185	11799	27375	0.003	0.007 #
28) 2,4'-DDD	8.012	8.469	12530	42373	0.007	BelowCal #
29) 2,4'-DDT	8.184	8.693	6602	50076	0.003	BelowCal #



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152005.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:15  
 Operator : MJB  
 Sample : 0J15061-ICB1  
 Misc : A2J148  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 15:09:10 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

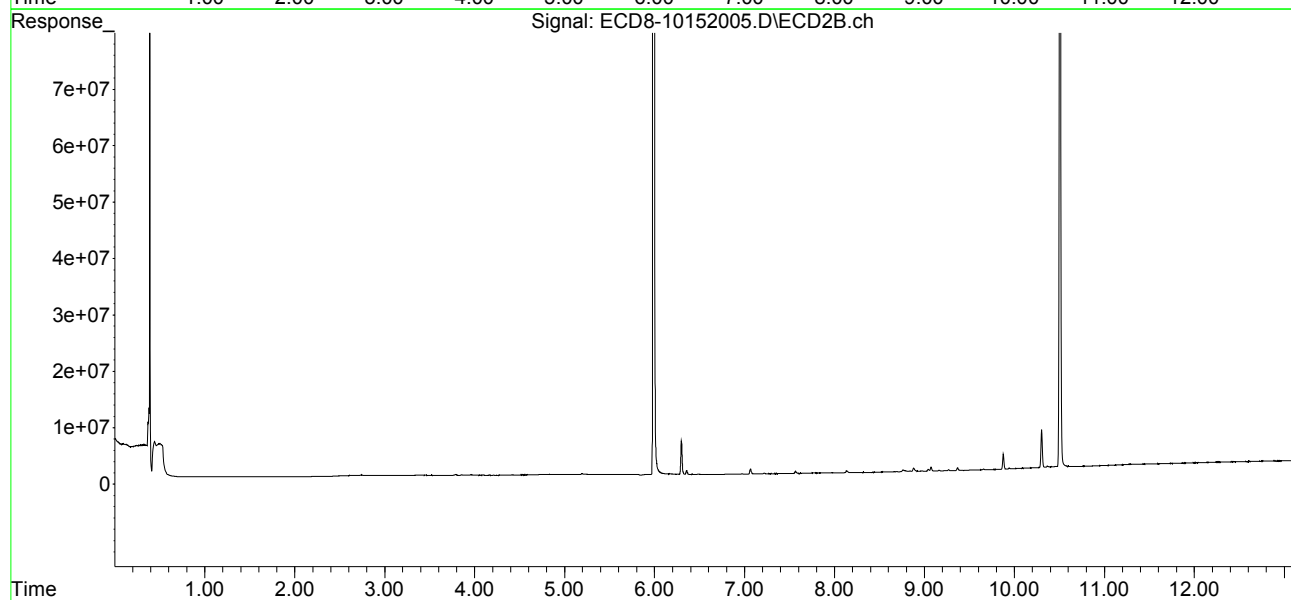
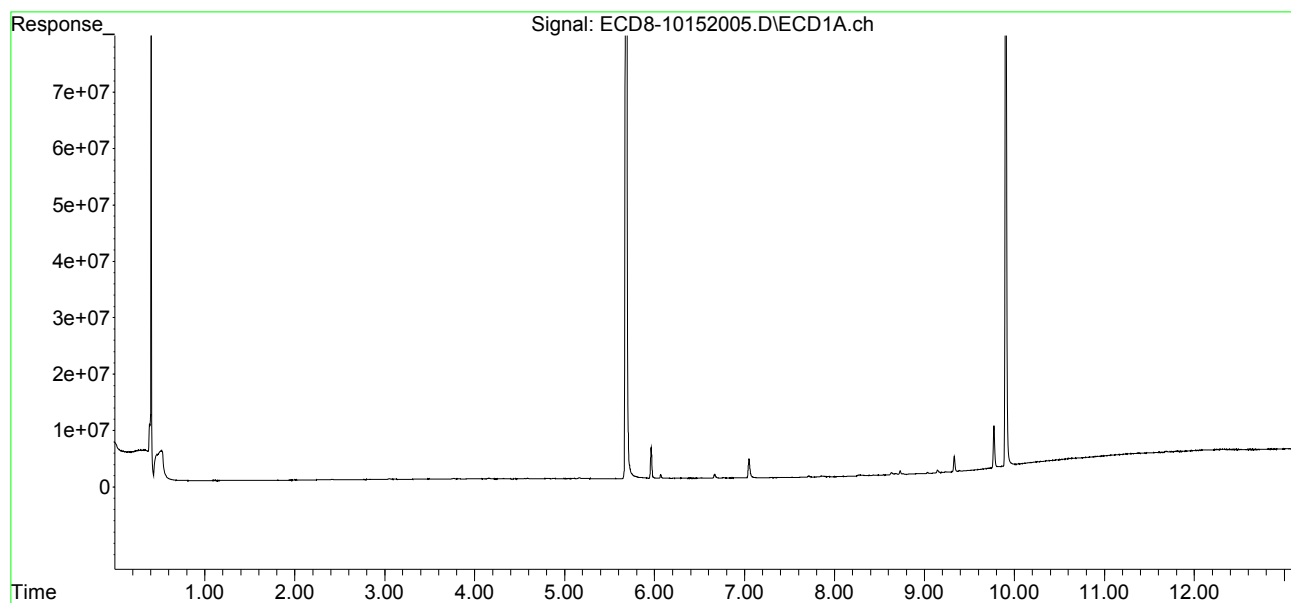
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.287	8.760f	160952	323811	0.041	0.076 #
31)	Mirex	8.956	9.634	50254	29278	BelowCal	BelowCal
32)	Chlordane...	7.711	8.088f	211868	9996	0.514	0.021 #
33)	Chlordane...	7.821	8.219	24719	41602	0.059	0.100 #
34)	Chlordane...	8.380	8.879	66895	582363	0.519	4.306 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.809	8.443	11799	9672	0.793	0.254 #
37)	Toxaphene...	8.101	8.760f	29561	323811	0.897	6.868 #
38)	Toxaphene...	8.433	8.838	86085	110008	1.242	1.564 #
39)	Toxaphene...	8.677f	8.879	288643	582363	3.879	4.888 #
40)	Toxaphene...	8.886	9.072	18497	705319	0.312	10.238 #
41)	Toxaphene...	8.956	9.457	50254	28207	0.746	0.377 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152005.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:15  
Operator : MJB  
Sample : 0J15061-ICB1  
Misc : A2J148  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 15:09:10 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152015.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:00  
 Operator : MJB  
 Sample : 0J15061-IBL1  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:30:22 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.995	36277	194150	0.010	0.049 #
22) S DCBP (S)	9.904	10.503	240361	236171	BelowCal	0.098
Target Compounds						
2) a-BHC	6.234	6.587	16722	54928	0.004	0.010 #
3) g-BHC	6.480f	6.900	213856	21233	0.053	0.005 #
4) b-BHC	6.609	6.967	52215	58701	0.033	0.030
5) Heptachlor	6.917	7.273	49720	24838	0.012	0.005 #
6) d-BHC	6.758	7.216	164520	167003	0.112	0.108
7) Aldrin	7.160	7.536	34097	30135	0.009	0.007
8) Heptachlo...	7.625	7.972	222254	49389	0.061	0.012 #
9) trans-Chl...	7.724	8.093	41501	17569	0.011	0.004 #
10) cis-Chlor...	7.817	8.217	83940	43883	0.023	0.011 #
11) Endosulfa...	7.926	8.269	44887	331318	0.013	0.092 #
12) 4,4'-DDE	7.876	8.323	102257	42118	0.032	0.060 #
13) Dieldrin	8.104	8.468	229166	38739	0.061	0.027 #
14) Endrin	8.233f	8.691	7524	294680	0.003	0.140 #
15) 4,4'-DDD	8.308	8.762f	87724	30492	0.032	0.012 #
16) Endosulfa...	8.432	8.837	87069	61707	0.030	0.019 #
17) 4,4'-DDT	8.505	8.971	20187	56149	0.040	0.084 #
18) Endrin Al...	8.728	9.075	407646	516207	BelowCal	BelowCal
19) Endosulfa...	9.032	9.266	192574	211476	0.064	0.064
20) Methoxychlor	8.838	0.000	31712	0	0.023	N.D. #
21) Endrin Ke...	9.235	9.658	113904	135542	0.031	0.035
23) Hexachlor...	3.475	3.716	62688	113177	BelowCal	BelowCal
24) Hexachlor...	6.069	6.465	88788	137457	0.026	0.034 #
25) Oxychlorane	0.000	7.886	0	19876	N.D.	0.006 #
26) 2,4'-DDE	7.625	8.093	222254	17569	0.103	0.007 #
27) trans-Non...	7.817	0.000	83940	0	0.023	N.D. #
28) 2,4'-DDD	7.962f	8.468	25541	38739	0.013	0.017 #
29) 2,4'-DDT	8.172	8.691	6642	294680	0.003	0.003

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152015.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:00  
 Operator : MJB  
 Sample : 0J15061-IBL1  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:30:22 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

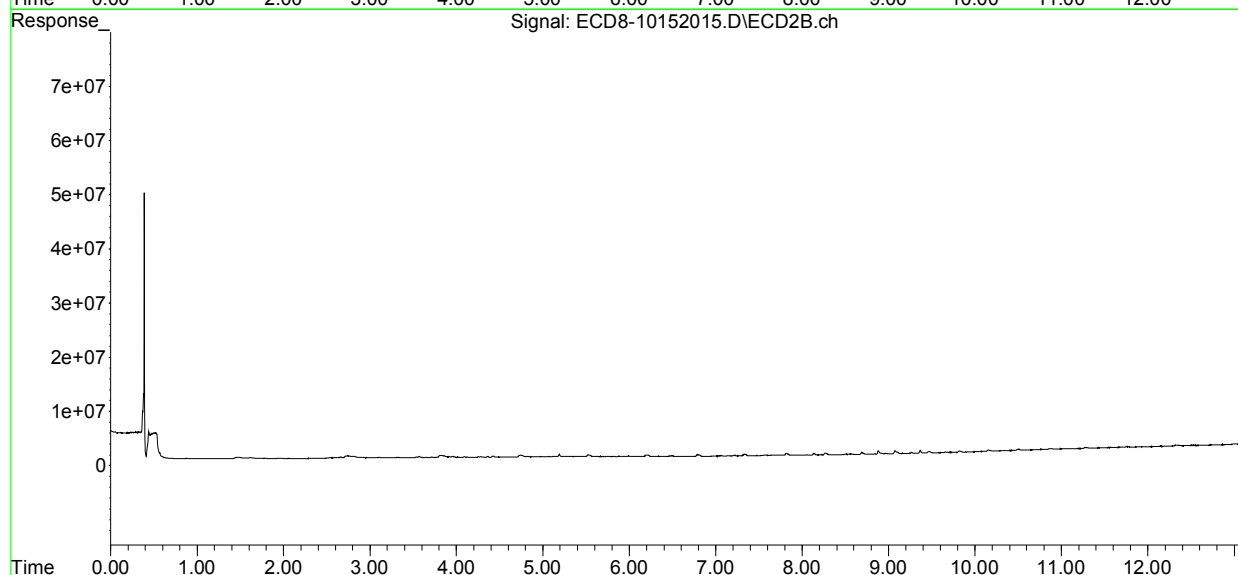
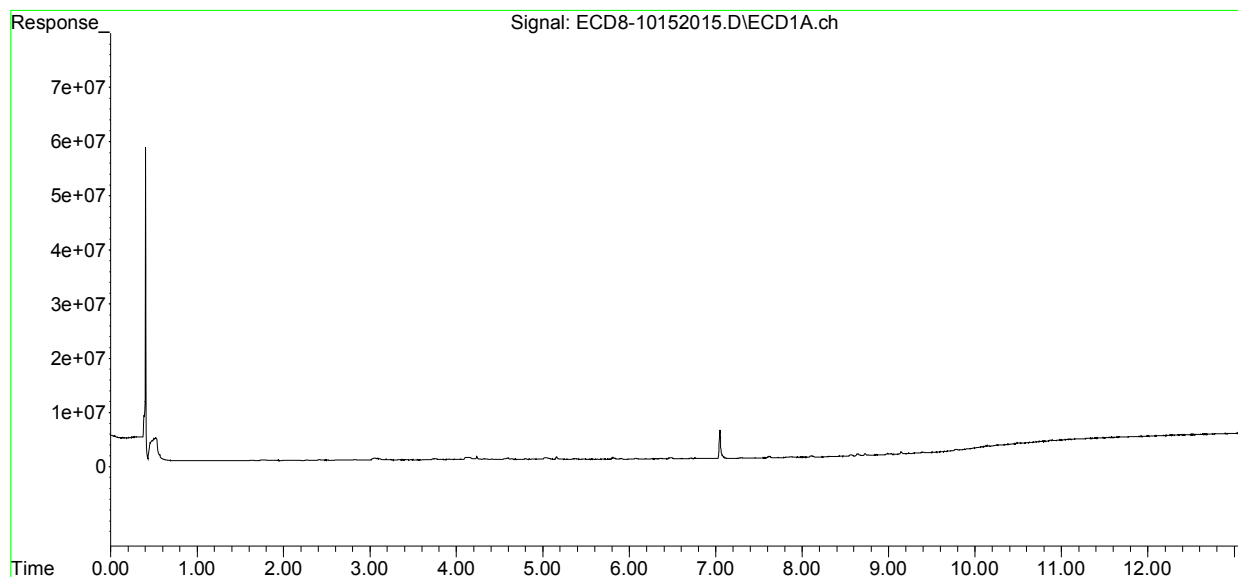
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL	
30)	cis-Nonac...	8.308f	8.762f	87724	30492	0.022	0.007	#
31)	Mirex	8.993f	9.658	205490	135542	BelowCal	BelowCal	
32)	Chlordane...	7.724	8.093	41501	17569	0.101	0.036	#
33)	Chlordane...	7.817	8.217	83940	43883	0.200	0.106	#
34)	Chlordane...	8.386	8.882	37996	555233	0.295	4.105	#
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.	
36)	Toxaphene...	7.797	8.468f	16459	38739	1.106	1.019	
37)	Toxaphene...	8.104	8.773	229166	25887	6.957	0.549	#
38)	Toxaphene...	8.407	8.837	30825	61707	0.445	0.877	#
39)	Toxaphene...	8.638	8.882	411519	555233	5.530	4.661	
40)	Toxaphene...	8.889	9.075	12999	516207	0.219	7.493	#
41)	Toxaphene...	8.993f	9.467f	205490	256204	3.052	3.421	
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152015.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:00  
Operator : MJB  
Sample : 0J15061-IBL1  
Misc : Instrument Blank  
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:30:22 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152016.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:17  
 Operator : MJB  
 Sample : 0J15061-ICV1  
 Misc : A20I130, AB 50 ppb  
 ALS Vial : 13 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:30:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	165.0E6	195.7E6	46.644	48.917
22) S DCBP (S)	9.905	10.507	119.4E6	112.5E6	47.655	46.518
Target Compounds						
2) a-BHC	6.234	6.586	234.0E6	283.7E6	49.659	53.034
3) g-BHC	6.520	6.901	203.6E6	243.1E6	50.578	52.280
4) b-BHC	6.601	6.967	77057289	97231616	49.368	49.694
5) Heptachlor	6.919	7.274	195.8E6	226.8E6	48.235	49.563
6) d-BHC	6.755	7.215	172.4E6	229.2E6	51.426	51.762
7) Aldrin	7.162	7.537	202.3E6	227.3E6	51.500	53.234
8) Heptachlo...	7.632	7.972	177.1E6	197.9E6	48.439	49.288
9) trans-Chl...	7.724	8.112	181.7E6	203.2E6	49.328	51.056
10) cis-Chlor...	7.821	8.218	178.2E6	193.4E6	49.187	49.859
11) Endosulfa...	7.926	8.268	163.0E6	183.8E6	47.915	51.120
12) 4,4'-DDE	7.873	8.320	161.8E6	190.9E6	51.351	50.859
13) Dieldrin	8.099	8.467	187.9E6	208.7E6	50.011	50.815
14) Endrin	8.269	8.690	139.8E6	149.6E6	50.976	51.865
15) 4,4'-DDD	8.304	8.734	137.1E6	163.9E6	50.397	51.804
16) Endosulfa...	8.431	8.836	143.5E6	167.2E6	48.720	51.352
17) 4,4'-DDT	8.499	8.958	141.5E6	160.1E6	51.628	51.912
18) Endrin Al...	8.726	9.071	144.1E6	161.9E6	50.465	53.016
19) Endosulfa...	9.032	9.266	143.9E6	162.9E6	48.151	49.018
20) Methoxychlor	8.831	9.424	67631491	79616947	49.130	51.734
21) Endrin Ke...	9.234	9.657	175.5E6	197.5E6	47.472	50.561
23) Hexachlor...	3.480	3.714	12382	21696	BelowCal	BelowCal
24) Hexachlor...	6.070	6.453	377547	20539	0.112	0.005 #
25) Oxychlorane	7.565	7.887	313207	217721	0.096	0.061 #
26) 2,4'-DDE	7.632	8.112	177.1E6	203.2E6	82.240	82.621
27) trans-Non...	7.821	8.175	178.2E6	623023	48.877	0.156 #
28) 2,4'-DDD	0.000	8.467	0	208.7E6	N.D.	91.264 #
29) 2,4'-DDT	8.180	8.690	785637	149.6E6	0.361	63.666 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152016.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:17  
 Operator : MJB  
 Sample : 0J15061-ICV1  
 Misc : A20I130, AB 50 ppb  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:30:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

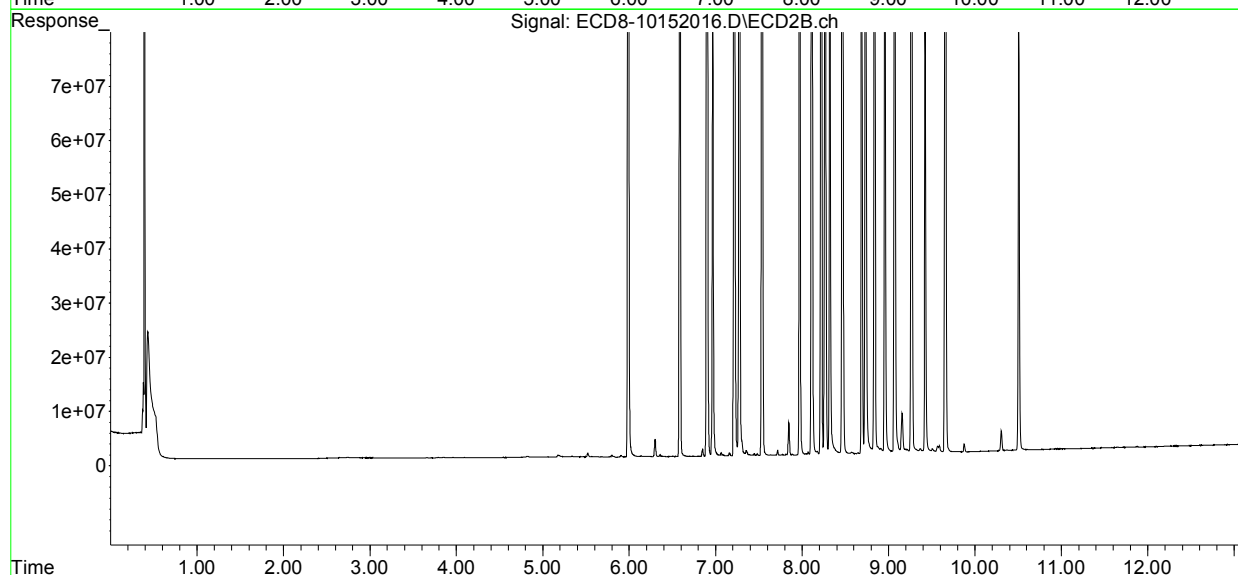
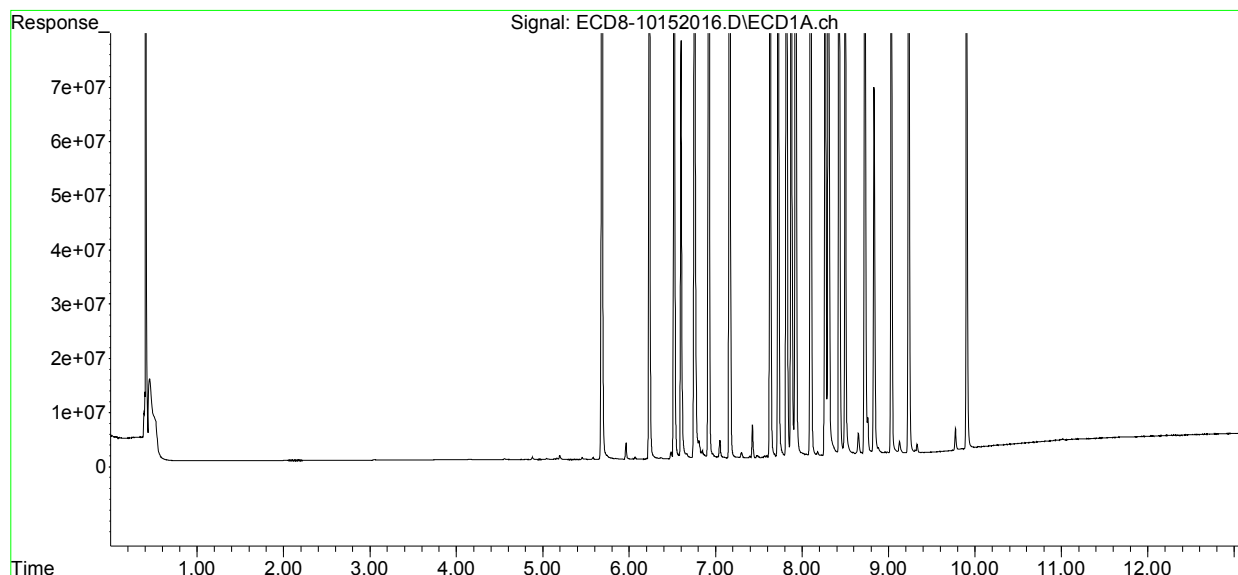
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.269	8.734	139.8E6	163.9E6	35.038	37.764
31)	Mirex	8.963	9.657	299955	197.5E6	BelowCal	78.563
32)	Chlordane...	7.724	8.112	181.7E6	203.2E6	440.967	417.153
33)	Chlordane...	7.821	8.218	178.2E6	193.4E6	425.055	467.235
34)	Chlordane...	0.000	8.877	0	1311471	N.D.	9.697 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.821	8.467f	178.2E6	208.7E6	11976.113	5492.509 #
37)	Toxaphene...	8.099	0.000	187.9E6	0	5704.044	N.D. #
38)	Toxaphene...	8.431	8.836	143.5E6	167.2E6	2070.032	2377.317
39)	Toxaphene...	8.650	8.877	3902275	1311471	52.435	11.009 #
40)	Toxaphene...	8.882	9.071	1118590	161.9E6	18.843	2349.795 #
41)	Toxaphene...	8.963	9.424	299955	79616947	4.455	1063.236 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152016.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:17  
Operator : MJB  
Sample : 0J15061-ICV1  
Misc : A20I130, AB 50 ppb  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:30:30 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152026.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:02  
 Operator : MJB  
 Sample : 0J15061-IBL2  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:31:22 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.997	0	178278	N.D.	0.045 #
22) S DCBP (S)	9.904	10.500	209896	232169	BelowCal	0.096
Target Compounds						
2) a-BHC	6.257f	6.585	44623	43417	0.009	0.008
3) g-BHC	6.481f	6.901	202870	12683	0.050	0.003 #
4) b-BHC	6.607	6.966	38814	50083	0.025	0.026
5) Heptachlor	6.919	7.275	30670	14734	0.008	0.003 #
6) d-BHC	6.759	7.216	112571	110782	0.095	0.094
7) Aldrin	7.133f	7.536	15128	14932	0.004	0.003
8) Heptachlo...	7.623	7.972	210052	29685	0.057	0.007 #
9) trans-Chl...	7.724	8.096	27856	38667	0.008	0.010 #
10) cis-Chlor...	7.820	8.206	74210	36983	0.020	0.010 #
11) Endosulfa...	7.963f	8.269	48625	304599	0.014	0.085 #
12) 4,4'-DDE	7.873	8.320	93685	15919	0.030	0.052 #
13) Dieldrin	8.107	8.470	195060	17885	0.052	0.021 #
14) Endrin	8.269	8.689	19285	285638	0.007	0.137 #
15) 4,4'-DDD	8.305	8.748	62503	10476	0.023	0.005 #
16) Endosulfa...	8.433	8.838	55843	30193	0.019	0.009 #
17) 4,4'-DDT	8.496	8.955	353946	45317	0.174	0.080 #
18) Endrin Al...	8.759f	9.082	122999	282342	BelowCal	BelowCal
19) Endosulfa...	9.031	9.264	118930	97435	0.040	0.029 #
20) Methoxychlor	8.814	9.403f	58248	41930	0.042	BelowCal #
21) Endrin Ke...	9.233	9.655	73251	80871	0.020	0.021
23) Hexachlor...	3.475	3.715	33292	138814	BelowCal	BelowCal
24) Hexachlor...	6.071	6.467	124337	157270	0.037	0.039
25) Oxychlorane	7.552	7.898	17835	20699	0.005	0.006
26) 2,4'-DDE	7.623	8.096	210052	38667	0.098	0.016 #
27) trans-Non...	7.816	8.174	74827	66265	0.021	0.017
28) 2,4'-DDD	8.000	8.470	33553	17885	0.017	0.008 #
29) 2,4'-DDT	8.179	8.689	10473	285638	0.005	BelowCal #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152026.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:02  
 Operator : MJB  
 Sample : 0J15061-IBL2  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:31:22 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

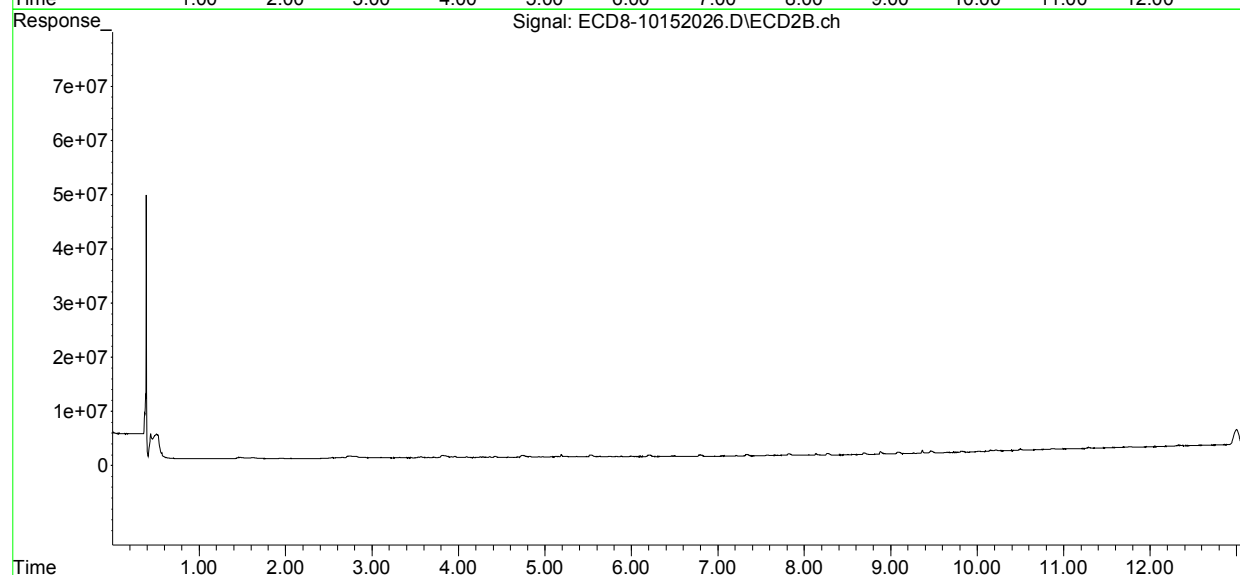
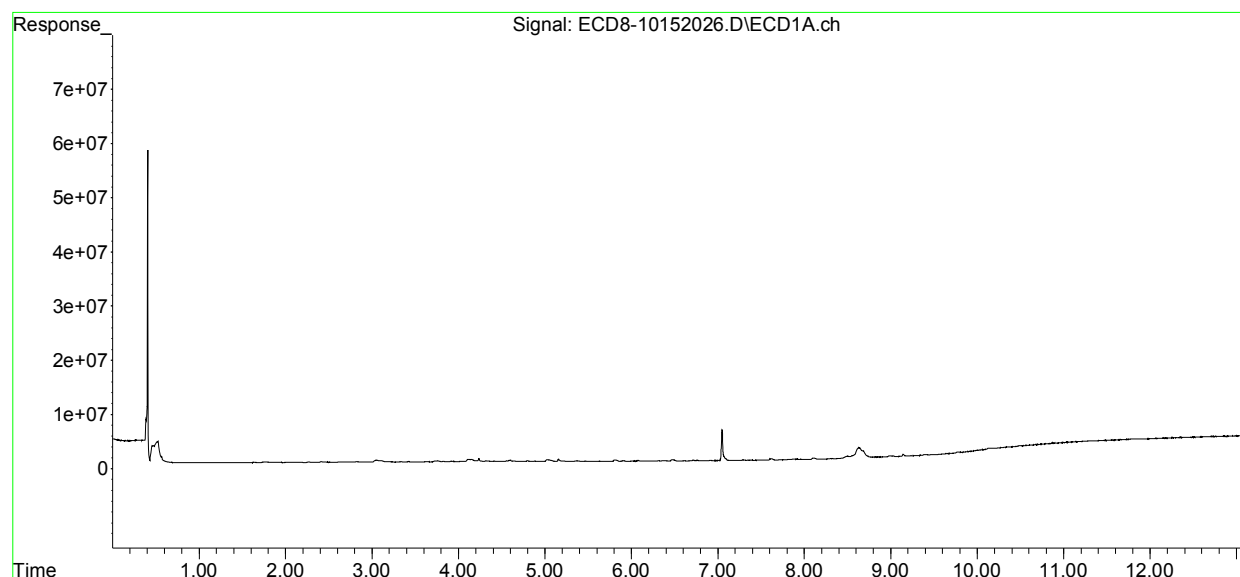
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.748	44626	10476	0.011	0.002 #
31)	Mirex	8.981f	9.655	179220	80871	BelowCal	BelowCal
32)	Chlordane...	7.724	8.096	27856	38667	0.068	0.079
33)	Chlordane...	7.816	8.206	74827	36983	0.179	0.089 #
34)	Chlordane...	8.389	8.882	16672	475371	0.129	3.515 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.795	8.421f	27476	9692	1.847	0.255 #
37)	Toxaphene...	8.107	8.800	195060	9317	5.922	0.198 #
38)	Toxaphene...	8.410	8.838	6772	30193	0.098	0.429 #
39)	Toxaphene...	8.636f	8.882	1916537	475371	25.753	3.990 #
40)	Toxaphene...	8.929f	9.082	9121	282342	0.154	4.098 #
41)	Toxaphene...	8.981	9.464f	179220	340512	2.662	4.547 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152026.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 00:02  
Operator : MJB  
Sample : 0J15061-IBL2  
Misc : Instrument Blank  
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:31:22 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152027.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:19  
 Operator : MJB  
 Sample : 0J15061-ICV2  
 Misc : A20I187, 9-42 50 ppb  
 ALS Vial : 23 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 15:10:48 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.653f	5.980	413558	55250	0.117	0.014 #
22) S DCBP (S)	9.899	10.503	223499	52665	BelowCal	0.022
Target Compounds						
2) a-BHC	6.265f	6.579	171094	258645	0.036	0.048 #
3) g-BHC	6.520	6.899	68314	47487	0.017	0.010 #
4) b-BHC	6.610	6.969	38441	66649	0.025	0.034 #
5) Heptachlor	6.919	7.273	122111	137551	0.030	0.030
6) d-BHC	6.760	7.216	117197	175448	0.096	0.111
7) Aldrin	7.163	7.534	36349	49856	0.009	0.012 #
8) Heptachlo...	7.621	8.007f	102.8E6	558155	28.110	0.139 #
9) trans-Chl...	7.723	8.096	2811381	122.8E6	0.763	30.851 #
10) cis-Chlor...	7.806	8.211	171.0E6	4866579	47.213	1.254 #
11) Endosulfa...	7.918	8.281	3765869	505892	1.107	0.141 #
12) 4,4'-DDE	0.000	8.326	0	3049788	N.D.	0.947 #
13) Dieldrin	8.089	8.467	774604	107.2E6	0.206	26.988 #
14) Endrin	8.286	8.688	184.2E6	125.3E6	67.169	44.136 #
15) 4,4'-DDD	8.286	8.734	184.2E6	208.9E6	67.729	64.488
16) Endosulfa...	8.433	8.837	163744	223268	0.056	0.069
17) 4,4'-DDT	8.500	8.957	119665	140090	0.080	0.115 #
18) Endrin Al...	8.724	9.072	191173	143821	BelowCal	BelowCal
19) Endosulfa...	9.065f	9.265	511417	101002	0.171	0.030 #
20) Methoxychlor	8.837	9.422	14192	36164	0.010	BelowCal #
21) Endrin Ke...	9.235	9.643	89134	119.9E6	0.024	30.699 #
23) Hexachlor...	3.474	3.702	153.0E6	189.3E6	47.268	48.373
24) Hexachlor...	6.069	6.453	154.9E6	189.5E6	46.302	47.601
25) Oxychlorane	7.553	7.901	152.8E6	171.7E6	47.311	48.769
26) 2,4'-DDE	7.621	8.096	102.8E6	122.8E6	48.319	50.602
27) trans-Non...	7.806	8.175	171.0E6	190.8E6	47.331	48.395
28) 2,4'-DDD	8.000	8.467	88392674	107.2E6	46.005	50.436
29) 2,4'-DDT	8.180	8.688	111.4E6	125.3E6	51.934	54.652

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152027.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:19  
 Operator : MJB  
 Sample : 0J15061-ICV2  
 Misc : A20I187, 9-42 50 ppb  
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 15:10:48 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

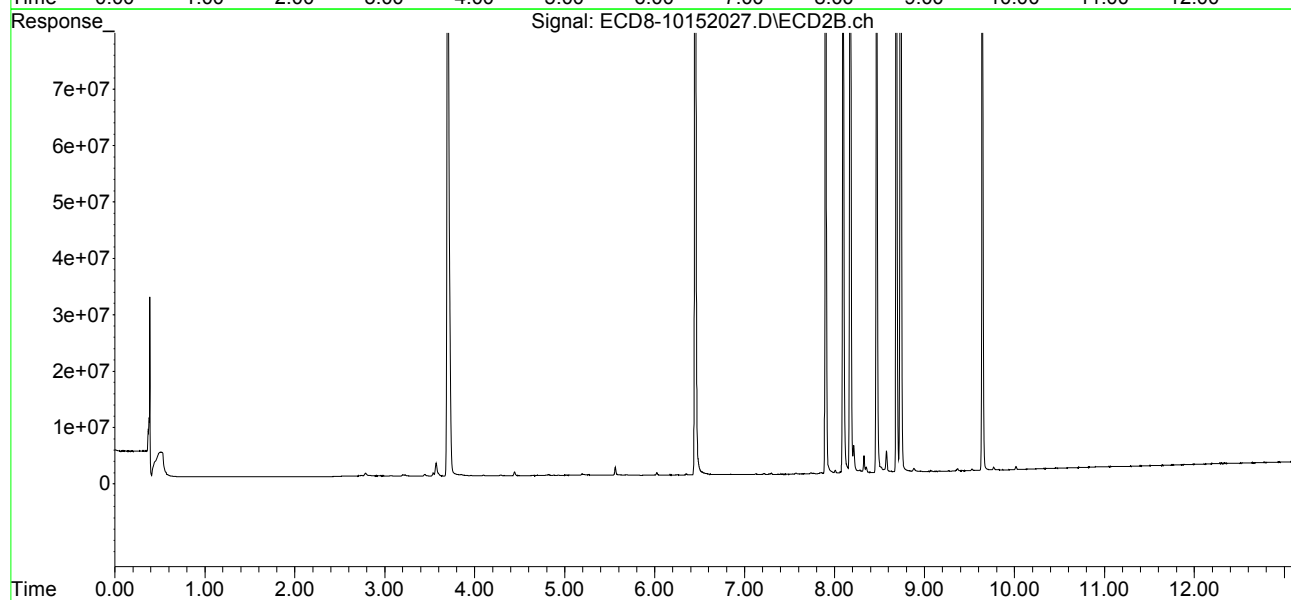
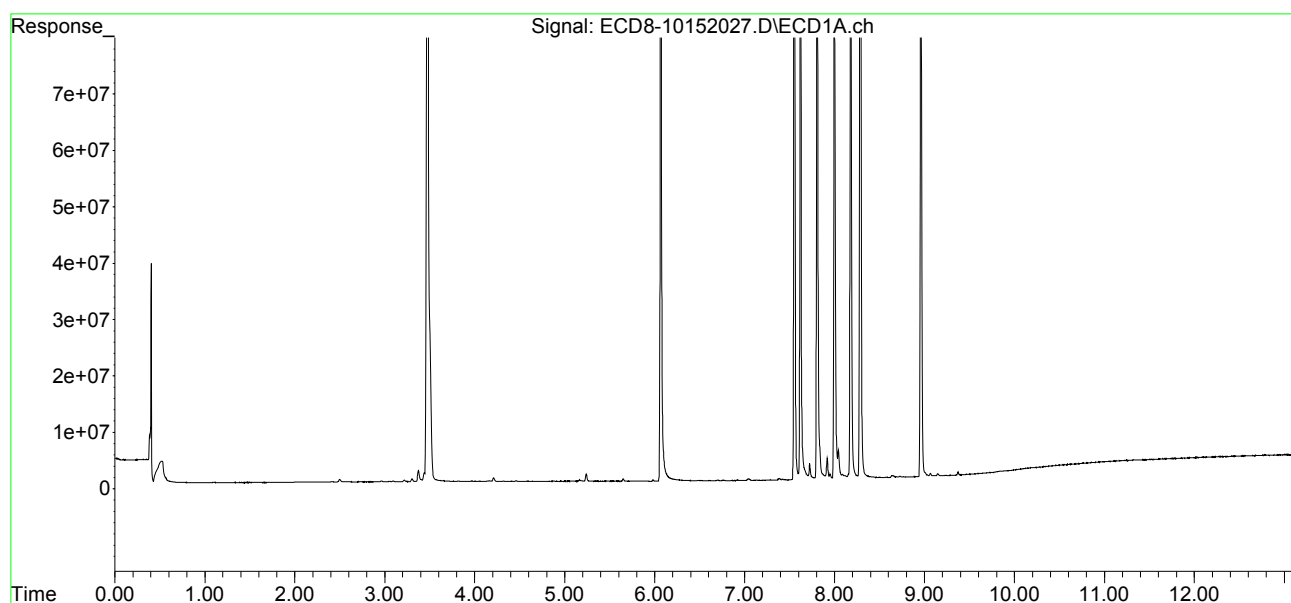
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.734	184.2E6	208.9E6	46.708	48.832
31)	Mirex	8.961	9.643	113.4E6	119.9E6	48.087	48.808
32)	Chlordane...	7.723	8.096	2811381	122.8E6	6.825	252.069 #
33)	Chlordane...	7.806	8.211	171.0E6	4866579	408.003	11.755 #
34)	Chlordane...	0.000	8.881	0	601552	N.D.	4.448 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.806	8.467f	171.0E6	107.2E6	11495.682	2820.717 #
37)	Toxaphene...	8.089	0.000	774604	0	23.517	N.D. #
38)	Toxaphene...	8.433	8.837	163744	223268	2.362	3.174 #
39)	Toxaphene...	8.641	8.881	376516	601552	5.059	5.049
40)	Toxaphene...	8.870f	9.072	8090	143821	0.136	2.088 #
41)	Toxaphene...	8.961	9.442	113.4E6	22501	1684.049	0.300 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152027.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 00:19  
Operator : MJB  
Sample : 0J15061-ICV2  
Misc : A20I187, 9-42 50 ppb  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 15:10:48 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152035.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:31  
 Operator : MJB  
 Sample : 0J15061-IBL3  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:32:05 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.710f	5.998	25302	155203	0.007	0.039 #
22) S DCBP (S)	9.941f	10.501	106252	240682	BelowCal	0.099
Target Compounds						
2) a-BHC	6.260f	6.588	40623	42583	0.009	0.008
3) g-BHC	6.480f	6.938f	201951	7271	0.050	0.002 #
4) b-BHC	6.613	6.966	35946	56196	0.023	0.029
5) Heptachlor	6.915	7.271	44476	23868	0.011	0.005 #
6) d-BHC	6.758	7.213	100505	98350	0.091	0.091
7) Aldrin	7.139f	7.530	31214	27894	0.008	0.007
8) Heptachlo...	7.622	7.974	200689	43233	0.055	0.011 #
9) trans-Chl...	7.722	8.110	67877	82669	0.018	0.021
10) cis-Chlor...	7.817	8.216	112431	85348	0.031	0.022 #
11) Endosulfa...	7.925	8.269	56485	312281	0.017	0.087 #
12) 4,4'-DDE	7.888	8.317	81135	27474	0.026	0.056 #
13) Dieldrin	8.104	8.464	196592	20629	0.052	0.022 #
14) Endrin	8.287	8.689	34487	297936	0.013	0.142 #
15) 4,4'-DDD	8.309	8.747	59602	14109	0.022	0.007 #
16) Endosulfa...	8.430	8.834	52187	29018	0.018	0.009 #
17) 4,4'-DDT	8.497	8.959	13656	90097	0.038	0.097 #
18) Endrin Al...	8.728	9.086	163036	280065	BelowCal	BelowCal
19) Endosulfa...	9.029	9.264	95259	85258	0.032	0.026
20) Methoxychlor	8.835	9.426	24233	29157	0.018	BelowCal #
21) Endrin Ke...	9.233	9.653	69147	73862	0.019	0.019
23) Hexachlor...	3.473	3.715	32371	106232	BelowCal	BelowCal
24) Hexachlor...	6.077	6.469	108080	151830	0.032	0.038
25) Oxychlorane	7.553	7.886	11914	44155	0.004	0.012 #
26) 2,4'-DDE	7.622	8.110	200689	82669	0.093	0.034 #
27) trans-Non...	7.817	8.175	112431	94744	0.031	0.024
28) 2,4'-DDD	7.991	8.464	25930	20629	0.013	0.009 #
29) 2,4'-DDT	8.192	8.689	7267	297936	0.003	0.005 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152035.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:31  
 Operator : MJB  
 Sample : 0J15061-IBL3  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:32:05 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.287	8.747	34487	14109	0.009	0.003 #
31)	Mirex	8.950	9.637	11268	21301	BelowCal	BelowCal
32)	Chlordane...	7.722	8.110	67877	82669	0.165	0.170
33)	Chlordane...	7.817	8.216	112431	85348	0.268	0.206
34)	Chlordane...	8.387	8.882	27422	1017890	0.213	7.526 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.817	8.441	112431	9653	7.557	0.254 #
37)	Toxaphene...	8.104	8.792	196592	10248	5.968	0.217 #
38)	Toxaphene...	8.430	8.819	52187	10031	0.753	0.143 #
39)	Toxaphene...	8.640	8.882	739281	1017890	9.934	8.544
40)	Toxaphene...	8.892	9.086	19730	280065	0.332	4.065 #
41)	Toxaphene...	8.950	9.435	11268	24389	0.167	0.326 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

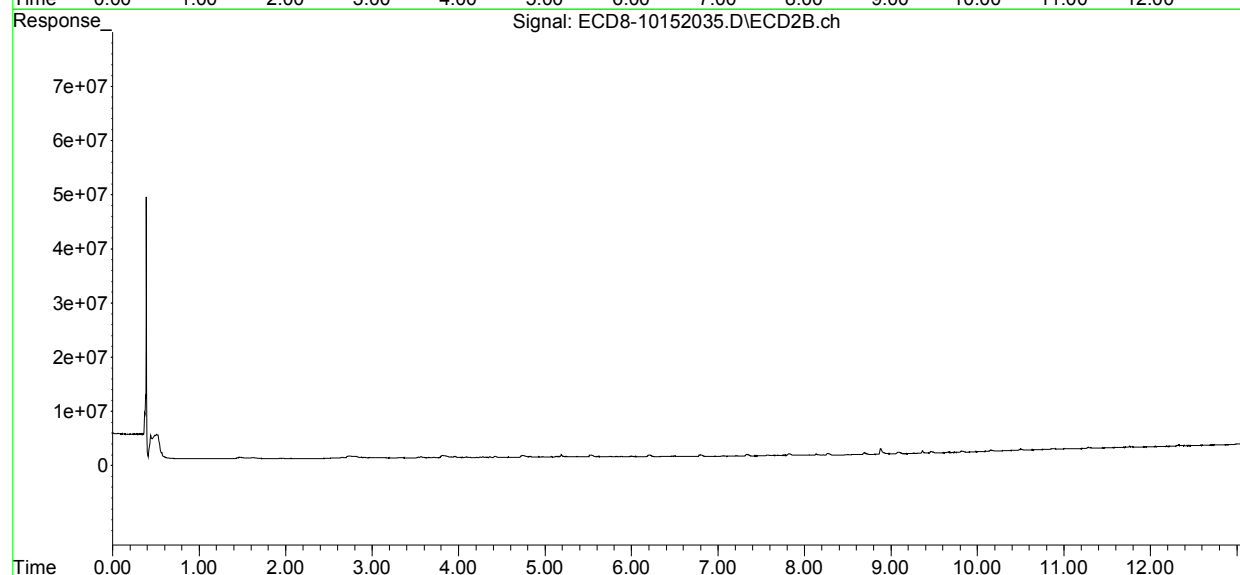
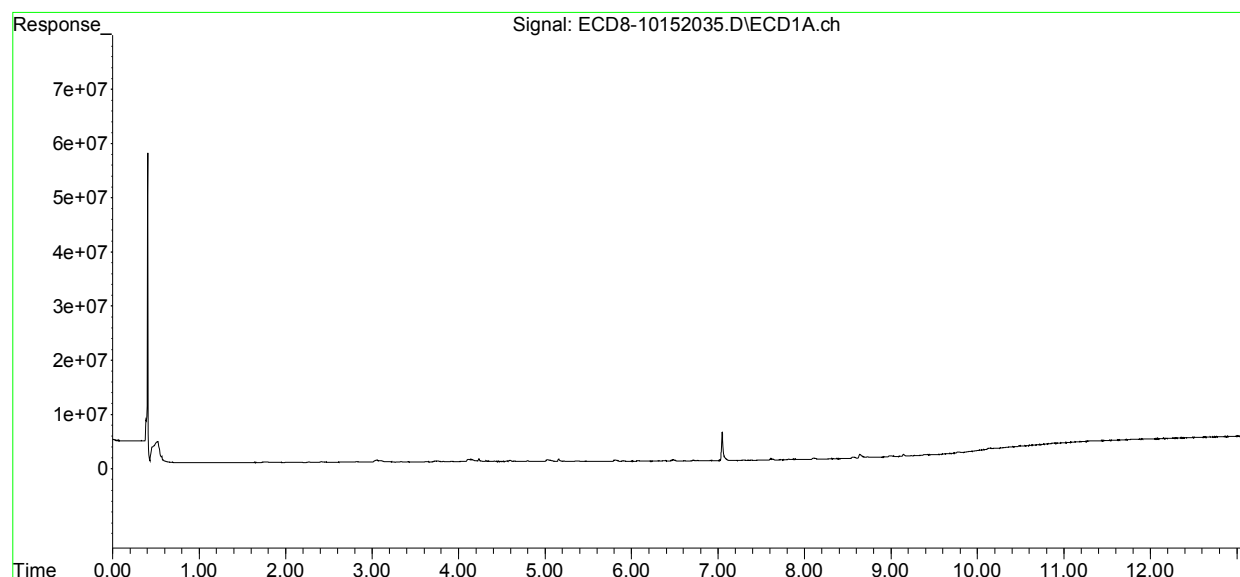
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152035.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 2:31  
Operator : MJB  
Sample : 0J15061-IBL3  
Misc : Instrument Blank  
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:32:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152036.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:47  
 Operator : MJB  
 Sample : 0J15061-ICV3  
 Misc : A20F062, CHOLR 500 ppb  
 ALS Vial : 31 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:32:22 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.681	5.962f	82134	59226	0.023	0.015 #
22) S DCBP (S)	9.921	10.520	431749	58803	BelowCal	0.024
Target Compounds						
2) a-BHC	6.221	6.615f	74110	4143369	0.016	0.775 #
3) g-BHC	6.528	6.911	200683	2082454	0.050	0.448 #
4) b-BHC	6.610	6.960	2252796	253939	1.443	0.130 #
5) Heptachlor	6.918	7.272	92152266	105.4E6	22.706	23.019
6) d-BHC	6.764	7.210	2614473	674000	0.909	0.234 #
7) Aldrin	7.175	7.545	1292172	1110757	0.329	0.260
8) Heptachlo...	7.634	7.987	13649820	5281699	3.734	1.315 #
9) trans-Chl...	7.723	8.109	202.0E6	247.5E6	54.864	62.187
10) cis-Chlor...	7.818	8.215	201.5E6	206.0E6	55.623	53.086
11) Endosulfa...	7.938	8.281	5505083	4043194	1.619	1.124 #
12) 4,4'-DDE	7.882	8.314	6238545	5422165	1.980	1.645
13) Dieldrin	8.110	8.467	6398195	22723243	1.703	5.910 #
14) Endrin	8.285	8.687	35730637	4984027	13.029	1.948 #
15) 4,4'-DDD	8.285	8.734	35730637	38202894	13.138	13.023
16) Endosulfa...	8.425	8.823	4677508	5344067	1.588	1.641
17) 4,4'-DDT	8.495	8.946	1039214	3724893	0.449	1.441 #
18) Endrin Al...	8.740	9.099f	1171756	11646243	0.112	3.716 #
19) Endosulfa...	9.029	9.286f	2623310	1190384	0.878	0.358 #
20) Methoxychlor	8.839	9.421	1115523	317396	0.810	0.175 #
21) Endrin Ke...	9.238	9.656	192223	2287043	0.052	0.585 #
23) Hexachlor...	3.475	3.717	11560	38939	BelowCal	BelowCal
24) Hexachlor...	6.056	6.421f	113259	432640	0.034	0.107 #
25) Oxychlorane	7.582f	7.883	38794935	2500611	11.916	0.701 #
26) 2,4'-DDE	7.634	8.109	13649820	247.5E6	6.339	100.635 #
27) trans-Non...	7.818	8.175	201.5E6	175.9E6	55.273	43.992
28) 2,4'-DDD	8.001	8.467	5829722	22723243	3.001	9.935 #
29) 2,4'-DDT	8.157f	8.687	16902532	4984027	7.773	2.245 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152036.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:47  
 Operator : MJB  
 Sample : 0J15061-ICV3 FRONT COLUMN: 490.00  
 Misc : A20F062, CHOLR 500 ppb REAR COLUMN: 498.26  
 ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:32:22 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

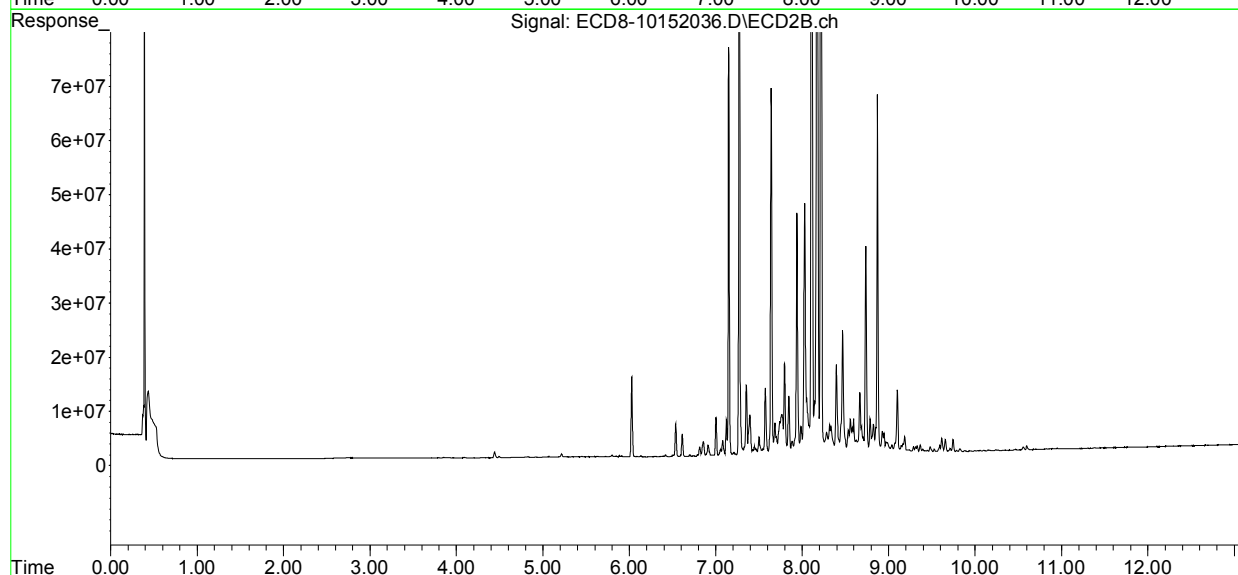
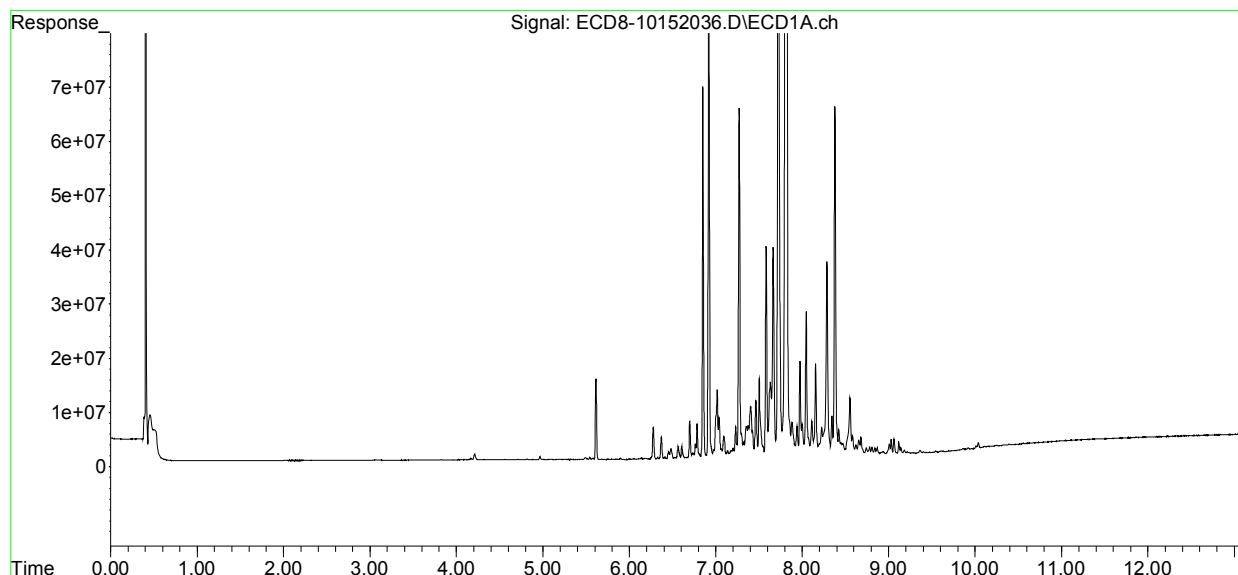
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.734	35730637	38202894	8.955	8.802
31)	Mirex	8.939f	9.656	440315	2287043	BelowCal	0.624
32)	Chlordane...	7.723	8.109	202.0E6	247.5E6	490.458	508.103
33)	Chlordane...	7.818	8.215	201.5E6	206.0E6	480.678	497.475
34)	Chlordane...	8.378	8.871	64331212	66162721	498.860	489.188
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.818	8.467f	201.5E6	22723243	13543.332	597.893 #
37)	Toxaphene...	8.110	8.788	6398195	6394433	194.246	135.635 #
38)	Toxaphene...	8.425	8.823	4677508	5344067	67.474	75.983
39)	Toxaphene...	8.652	8.871	2614091	66162721	35.126	555.371 #
40)	Toxaphene...	8.868f	9.099f	1182746	11646243	19.924	169.055 #
41)	Toxaphene...	8.939f	9.449	440315	328808	6.540	4.391 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152036.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 2:47  
Operator : MJB  
Sample : 0J15061-ICV3  
Misc : A20F062, CHOLR 500 ppb  
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:32:22 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152044.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:59  
 Operator : MJB  
 Sample : 0J15061-IBL4  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

CLEAN

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:32:45 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.709f	5.997	18215	173632	0.005	0.043 #
22) S DCBP (S)	9.925f	10.502	180501	215456	BelowCal	0.089
Target Compounds						
2) a-BHC	6.258f	6.588	47565	37975	0.010	0.007 #
3) g-BHC	0.000	6.900	0	10067	N.D.	0.002 #
4) b-BHC	6.614	6.966	28740	57471	0.018	0.029 #
5) Heptachlor	6.918	7.271	38412	11381	0.009	0.002 #
6) d-BHC	6.760	7.215	87917	81583	0.087	0.087
7) Aldrin	7.159	7.538	26607	17616	0.007	0.004 #
8) Heptachlo...	7.619	7.965	197681	21428	0.054	0.005 #
9) trans-Chl...	7.719	8.100	33114	22847	0.009	0.006 #
10) cis-Chlor...	7.819	8.213	75657	39711	0.021	0.010 #
11) Endosulfa...	7.921	8.269	56868	303565	0.017	0.084 #
12) 4,4'-DDE	7.879	8.344f	70386	14151	0.022	0.052 #
13) Dieldrin	8.099	8.467	195011	14148	0.052	0.020 #
14) Endrin	8.270	8.689	16162	290395	0.006	0.139 #
15) 4,4'-DDD	8.306	8.753f	57946	7853	0.021	0.004 #
16) Endosulfa...	8.431	8.837	50825	25647	0.017	0.008 #
17) 4,4'-DDT	8.492	8.955	15876	54034	0.038	0.083 #
18) Endrin Al...	8.728	9.080	119590	274885	BelowCal	BelowCal
19) Endosulfa...	9.027	9.264	98300	74318	0.033	0.022 #
20) Methoxychlor	8.829	9.424	20234	30345	0.015	BelowCal #
21) Endrin Ke...	9.234	9.655	71038	72888	0.019	0.019
23) Hexachlor...	3.475	3.715	26674	111850	BelowCal	BelowCal
24) Hexachlor...	6.078	6.469	96869	161050	0.029	0.040 #
25) Oxychlorane	7.552	7.905	8094	11851	0.002	0.003 #
26) 2,4'-DDE	7.619	8.100	197681	22847	0.092	0.009 #
27) trans-Non...	7.819	8.189	75657	33291	0.021	0.008 #
28) 2,4'-DDD	7.992	8.467	27039	14148	0.014	0.006 #
29) 2,4'-DDT	8.187	8.689	9056	290395	0.004	0.001 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152044.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:59  
 Operator : MJB  
 Sample : 0J15061-IBL4  
 Misc : Instrument Blank  
 ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:32:45 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

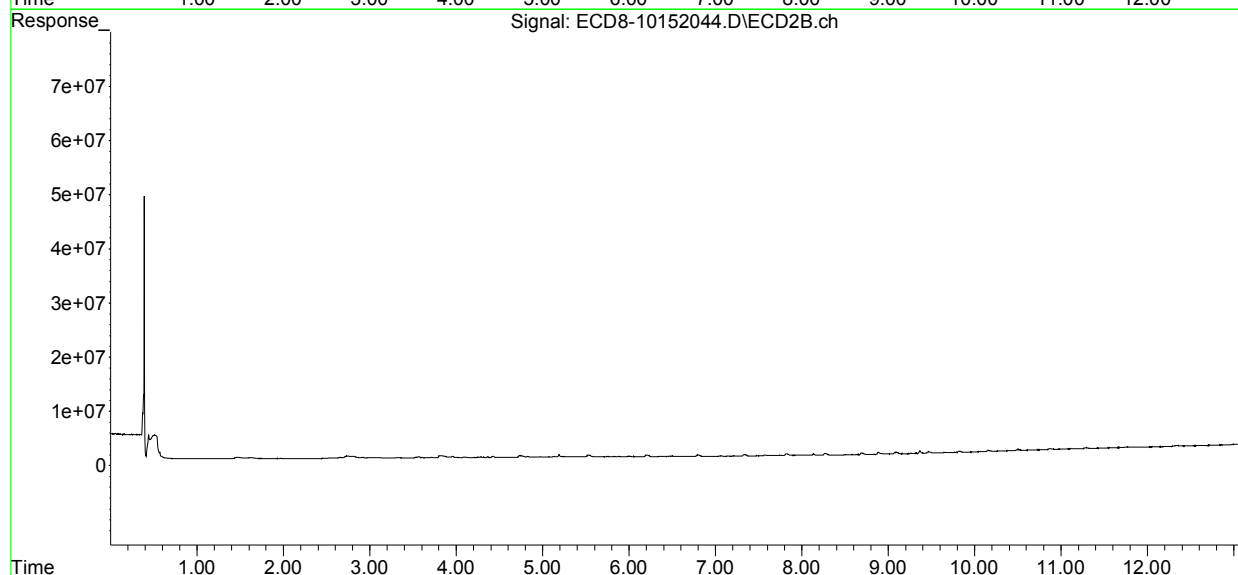
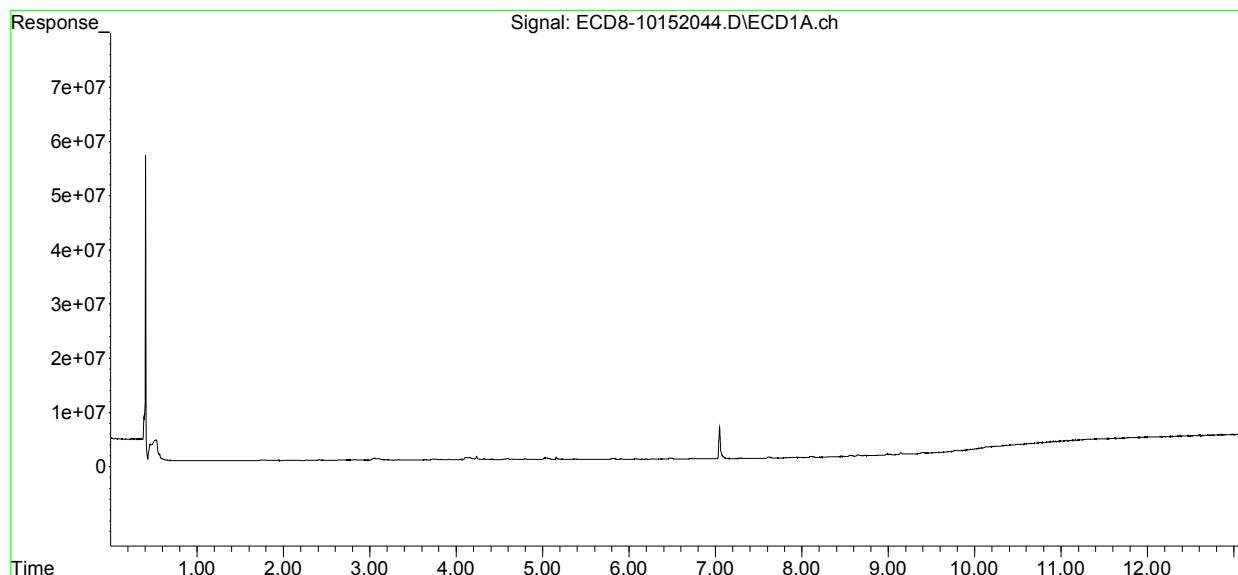
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.284	8.753	23719	7853	0.006	0.002 #
31)	Mirex	8.958	9.633	12573	19182	BelowCal	BelowCal
32)	Chlordane...	7.719	8.100	33114	22847	0.080	0.047 #
33)	Chlordane...	7.819	8.213	75657	39711	0.180	0.096 #
34)	Chlordane...	8.378	8.884	18243	367401	0.141	2.716 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.819	8.443	75657	16033	5.086	0.422 #
37)	Toxaphene...	8.099	8.796	195011	14310	5.920	0.304 #
38)	Toxaphene...	8.410	8.837	18688	25647	0.270	0.365 #
39)	Toxaphene...	8.643	8.884	254022	367401	3.413	3.084
40)	Toxaphene...	8.890	9.080	23886	274885	0.402	3.990 #
41)	Toxaphene...	8.958	9.424	12573	30345	0.187	0.405 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152044.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:59  
Operator : MJB  
Sample : 0J15061-IBL4  
Misc : Instrument Blank  
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:32:45 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152045.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 5:16  
 Operator : MJB  
 Sample : 0J15061-ICV4  
 Misc : A20F067, TOX 500 ppb  
 ALS Vial : 39 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:33:05 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.684	5.981	14542	12405	0.004	0.003
22) S DCBP (S)	9.909	10.484f	792915	1003272	0.058	0.415 #
Target Compounds						
2) a-BHC	6.232	6.583	70611	63825	0.015	0.012
3) g-BHC	6.520	6.893	55481	162404	0.014	0.035 #
4) b-BHC	6.612	6.954	56682	277447	0.036	0.142 #
5) Heptachlor	6.926	7.283	215099	386556	0.053	0.084 #
6) d-BHC	6.758	7.216	178022	329315	0.116	0.149 #
7) Aldrin	7.166	7.567f	686350	1264117	0.175	0.296 #
8) Heptachlo...	7.637	7.968	2670273	4611090	0.730	1.148 #
9) trans-Chl...	7.704	8.092	4046000	5672914	1.099	1.425 #
10) cis-Chlor...	7.803	8.197	7579824	5867289	2.093	1.512 #
11) Endosulfa...	7.931	8.276	11351357	7392687	3.337	2.056 #
12) 4,4'-DDE	7.882	8.304	3953943	8257589	1.255	2.475 #
13) Dieldrin	8.099	8.483	16858474	9972842	4.487	2.616 #
14) Endrin	8.281	8.685	23963695	19987601	8.738	7.633
15) 4,4'-DDD	8.295	8.738	21684440	12840832	7.973	4.456 #
16) Endosulfa...	8.419	8.823	36235359	34858023	12.302	10.706
17) 4,4'-DDT	8.503	8.952	34384470	14780020	13.476	5.469 #
18) Endrin Al...	8.705	9.069	25233104	36164633	8.591	12.031 #
19) Endosulfa...	9.025	9.263	16327506	15569627	5.463	4.686
20) Methoxychlor	8.815	9.442	23378798	38435131	16.983	26.099 #
21) Endrin Ke...	9.214	9.684f	10335766	8207182	2.795	2.101
23) Hexachlor...	0.000	3.717	0	20508	N.D.	BelowCal
24) Hexachlor...	0.000	6.450	0	29364	N.D.	0.007 #
25) Oxychlorane	7.557	7.917	5382675	4332117	1.653	1.214 #
26) 2,4'-DDE	7.637	8.092	2670273	5672914	1.240	2.306 #
27) trans-Non...	7.803	8.197f	7579824	5867289	2.079	1.467 #
28) 2,4'-DDD	8.000	8.483	6603128	9972842	3.399	4.360 #
29) 2,4'-DDT	8.163	8.685	18268845	19987601	8.401	9.288



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152045.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 5:16  
 Operator : MJB FRONT COLUMN: 517.24  
 Sample : 0J15061-ICV4 REAR COLUMN: 509.25  
 Misc : A20F067, TOX 500 ppb  
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 11:33:05 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

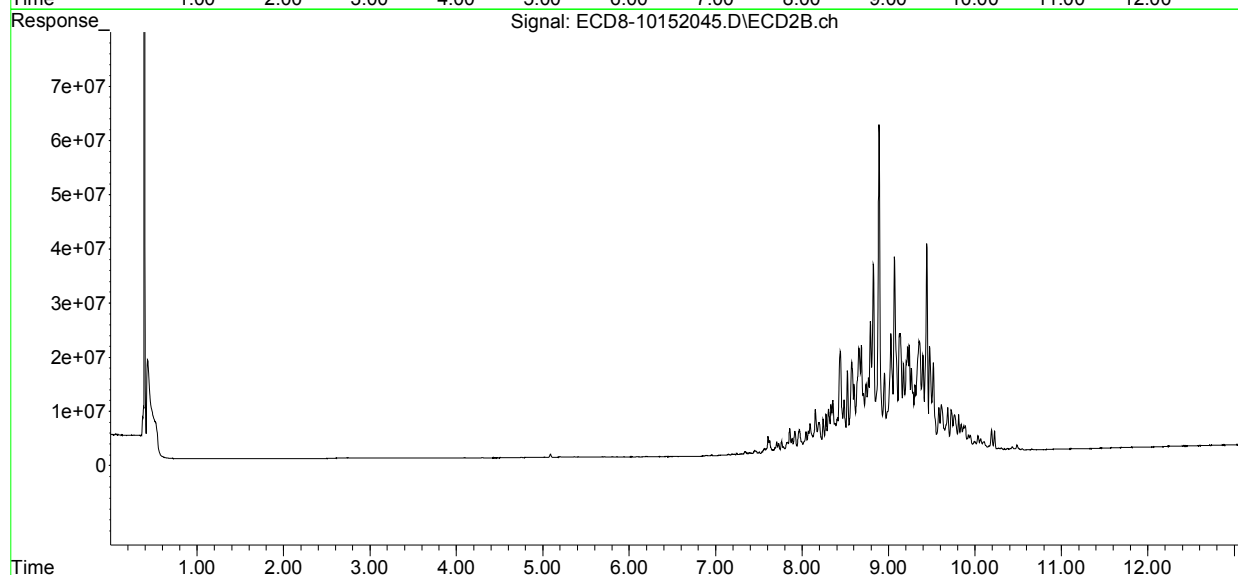
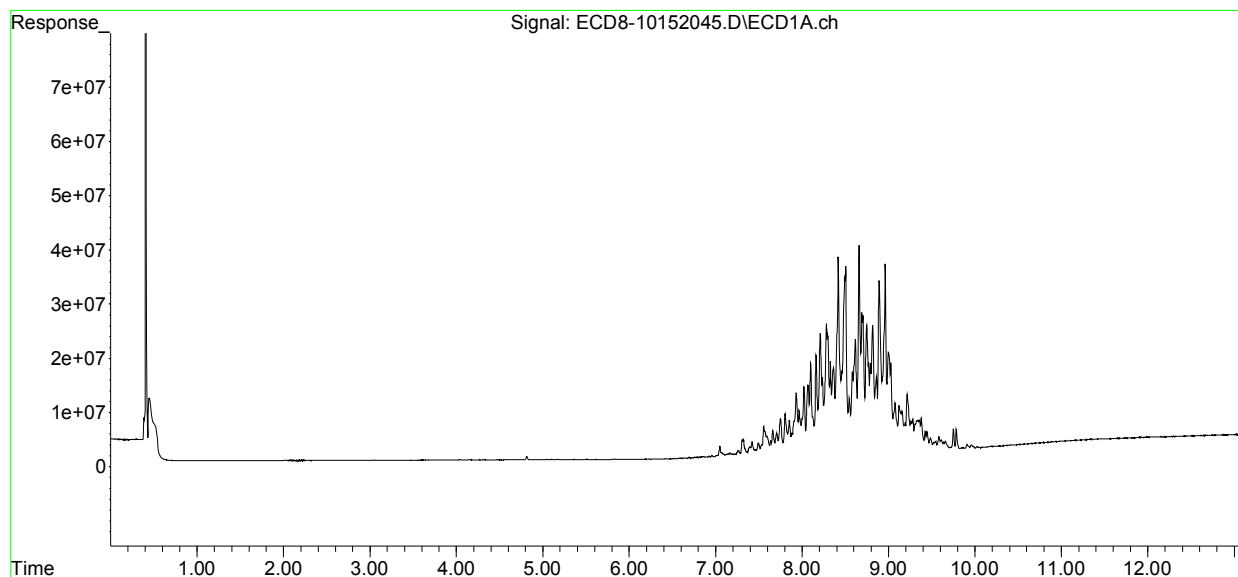
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.281	8.738	23963695	12840832	6.006	2.958 #
31)	Mirex	8.962	9.610f	34649295	8673088	14.401	3.291 #
32)	Chlordane...	7.704	8.092	4046000	5672914	9.822	11.645
33)	Chlordane...	7.803	8.197	7579824	5867289	18.083	14.172
34)	Chlordane...	8.363	8.891f	15731669	60630319	121.992	448.283 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.803	8.443	7579824	18874566	509.507	496.626
37)	Toxaphene...	8.099	8.791	16858474	24330413	511.814	516.083
38)	Toxaphene...	8.419	8.823	36235359	34858023	522.700	495.617
39)	Toxaphene...	8.656	8.891	38190543	60630319	513.172	508.932
40)	Toxaphene...	8.891	9.069	31557556	36164633	531.601	524.959
41)	Toxaphene...	8.962	9.442	34649295	38435131	514.656	513.278
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152045.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 5:16  
Operator : MJB  
Sample : 0J15061-ICV4  
Misc : A20F067, TOX 500 ppb  
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 11:33:05 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152006.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:32  
 Operator : MJB  
 Sample : 0J15061-CAL1  
 Misc : A20J274, AB 0.5 ppb  
 ALS Vial : 4 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:07 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						Not used in calibration
1) S TCMX (S)	5.683	5.990	1964465	2094674	0.555	0.524
22) S DCBP (S)	9.904	10.506	1866301	1410803	0.491	0.583
Target Compounds						
2) a-BHC	6.233	6.585	2328682	2455359	0.494	0.459
3) g-BHC	6.521	6.901	2071350	2228225	0.515	0.479
4) b-BHC	6.608	6.970	816885	1065650	0.523	0.545
5) Heptachlor	6.920	7.274	2088406	2266099	0.515	0.495
6) d-BHC	6.761	7.218	1397611	1816056	0.513	0.517
7) Aldrin	7.163	7.538	1983865	1985635	0.505	0.465
8) Heptachlo...	7.633	7.973	1984641	2034040	0.543	0.506
9) trans-Chl...	7.727	8.112	1925594	1969558	0.523	0.495
10) cis-Chlor...	7.824	8.219	1943677	1990595	0.537	0.513
11) Endosulfa...	7.928	8.269	1806599	1819190	0.531	0.506
12) 4,4'-DDE	7.880	8.323	1488674	1588759	0.472	0.517
13) Dieldrin	8.101	8.467	1890452	1903893	0.503	0.514
14) Endrin	8.271	8.691	1343181	1241690	0.490	0.507
15) 4,4'-DDD	8.309	8.736	1338233	1460301	0.492	0.512
16) Endosulfa...	8.435	8.839	1532660	1655922	0.520	0.509
17) 4,4'-DDT	8.503	8.959	1202509	1227833	0.514	0.519
18) Endrin Al...	8.729	9.073	2173619	2196243	0.465	0.481
19) Endosulfa...	9.033	9.266	1731826	1864404	0.579	0.561
20) Methoxychlor	8.835	9.425	712510	771752	0.518	0.499
21) Endrin Ke...	9.235	9.657	2069188	7722012	0.560	1.977 #
23) Hexachlor...	3.472	3.715	8726	48172	BelowCal	BelowCal
24) Hexachlor...	6.071	6.453	37373	41459	0.011	0.010
25) Oxychlorane	7.565	7.905	47936	18314	0.015	0.005 #
26) 2,4'-DDE	7.633	8.087	1984641	8624	0.922	0.004 #
27) trans-Non...	7.824	0.000	1943677	0	0.533	N.D. #
28) 2,4'-DDD	0.000	8.467	0	1903893	N.D.	0.832 #
29) 2,4'-DDT	8.183	8.691	19054	1241690	0.009	0.457 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152006.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:32  
 Operator : MJB  
 Sample : 0J15061-CAL1  
 Misc : A20J274, AB 0.5 ppb  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:07 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

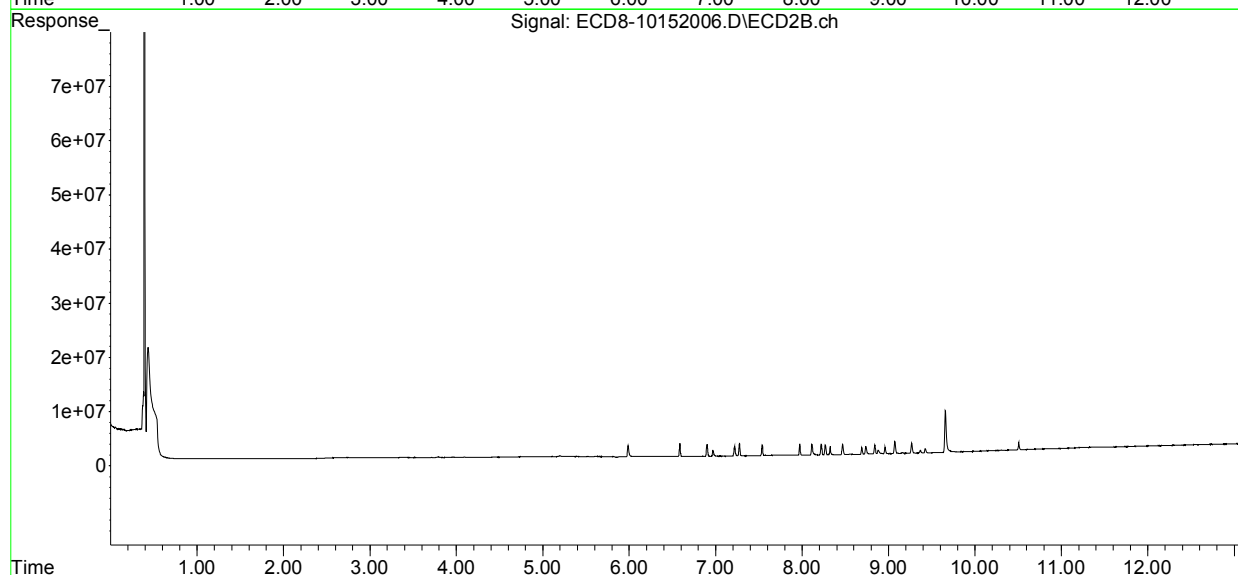
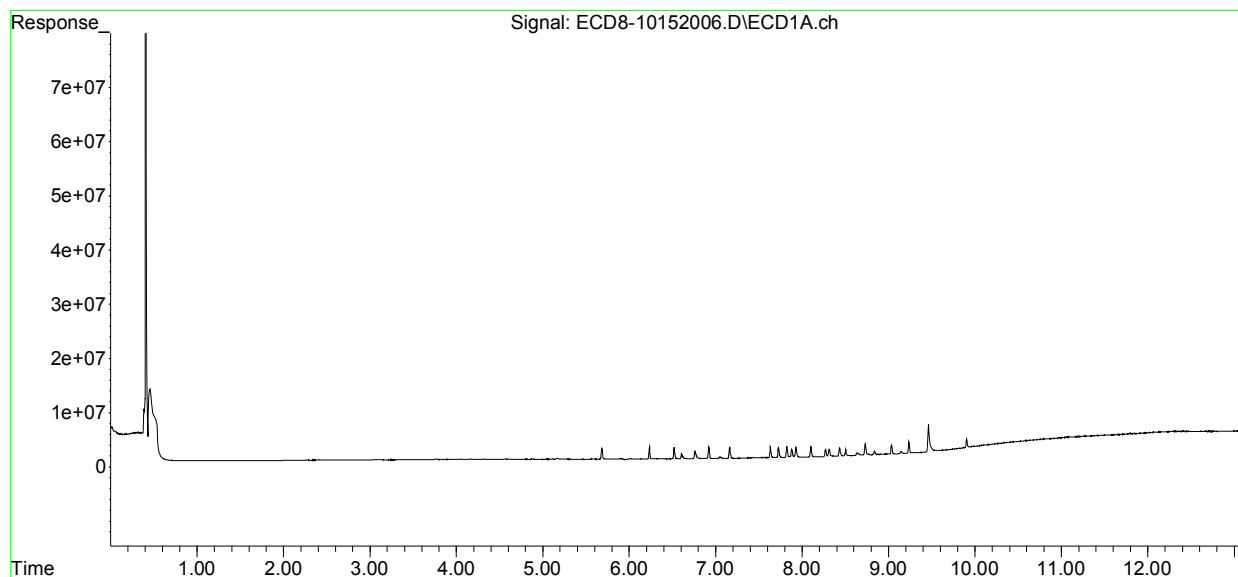
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.271	8.736	1343181	1460301	0.337	0.336
31)	Mirex	8.964	9.657	18052	7722012	BelowCal	2.894
32)	Chlordane...	7.727	8.112	1925594	1969558	4.674	4.043
33)	Chlordane...	7.824	8.219	1943677	1990595	4.637	4.808
34)	Chlordane...	8.371	8.881	44774	620143	0.347	4.585 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.824f	8.429	1943677	10558	130.652	0.278 #
37)	Toxaphene...	8.101	8.802	1890452	49833	57.393	1.057 #
38)	Toxaphene...	8.435	8.839	1532660	1655922	22.109	23.544
39)	Toxaphene...	8.637f	8.881	453626	620143	6.095	5.205
40)	Toxaphene...	8.890	9.073	12954	2196243	0.218	31.880 #
41)	Toxaphene...	8.964	9.425	18052	771752	0.268	10.306 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152007.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:48  
 Operator : MJB  
 Sample : 0J15061-CAL2  
 Misc : A20J275, AB 1 ppb  
 ALS Vial : 5 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:18 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	3675375	3996914	1.039	0.999
22) S DCBP (S)	9.903	10.505	3197716	2586506	1.028	1.069
Target Compounds						
2) a-BHC	6.233	6.585	4586018	4866992	0.973	0.910
3) g-BHC	6.520	6.900	3906552	4265430	0.971	0.917
4) b-BHC	6.607	6.969	1540562	1994989	0.987	1.020
5) Heptachlor	6.919	7.273	4125267	4334823	1.016	0.947
6) d-BHC	6.760	7.217	2771438	3592643	0.960	0.957
7) Aldrin	7.161	7.537	3890178	3922163	0.990	0.919
8) Heptachlo...	7.632	7.972	3780245	3912347	1.034	0.974
9) trans-Chl...	7.726	8.112	3633454	3716881	0.987	0.934
10) cis-Chlor...	7.823	8.219	3710813	3697197	1.024	0.953
11) Endosulfa...	7.927	8.269	3420833	3424701	1.006	0.952
12) 4,4'-DDE	7.878	8.323	2806594	3083622	0.891	0.957
13) Dieldrin	8.100	8.467	3676591	3654098	0.979	0.971
14) Endrin	8.270	8.690	2564407	2521951	0.935	1.001
15) 4,4'-DDD	8.307	8.736	2561702	2804997	0.942	0.982
16) Endosulfa...	8.433	8.838	2928662	3080696	0.994	0.946
17) 4,4'-DDT	8.501	8.959	2340699	2447680	0.969	0.970
18) Endrin Al...	8.728	9.072	3907593	3815413	1.076	1.037
19) Endosulfa...	9.032	9.266	3157154	3258540	1.056	0.981
20) Methoxychlor	8.833	9.424	1332109	1490489	0.968	1.011
21) Endrin Ke...	9.234	9.657	3789042	4169368	1.025	1.067
23) Hexachlor...	3.482	3.714	11899	54077	BelowCal	BelowCal
24) Hexachlor...	6.070	6.453	85829	89183	0.025	0.022
25) Oxychlorane	7.564	7.899	41690	25198	0.013	0.007 #
26) 2,4'-DDE	7.632	8.112	3780245	3716881	1.755	1.511
27) trans-Non...	7.823	0.000	3710813	0	1.018	N.D. #
28) 2,4'-DDD	8.003	8.467	32693	3654098	0.017	1.598 #
29) 2,4'-DDT	8.185	8.690	22619	2521951	0.010	1.070 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152007.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:48  
 Operator : MJB  
 Sample : 0J15061-CAL2  
 Misc : A20J275, AB 1 ppb  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:18 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

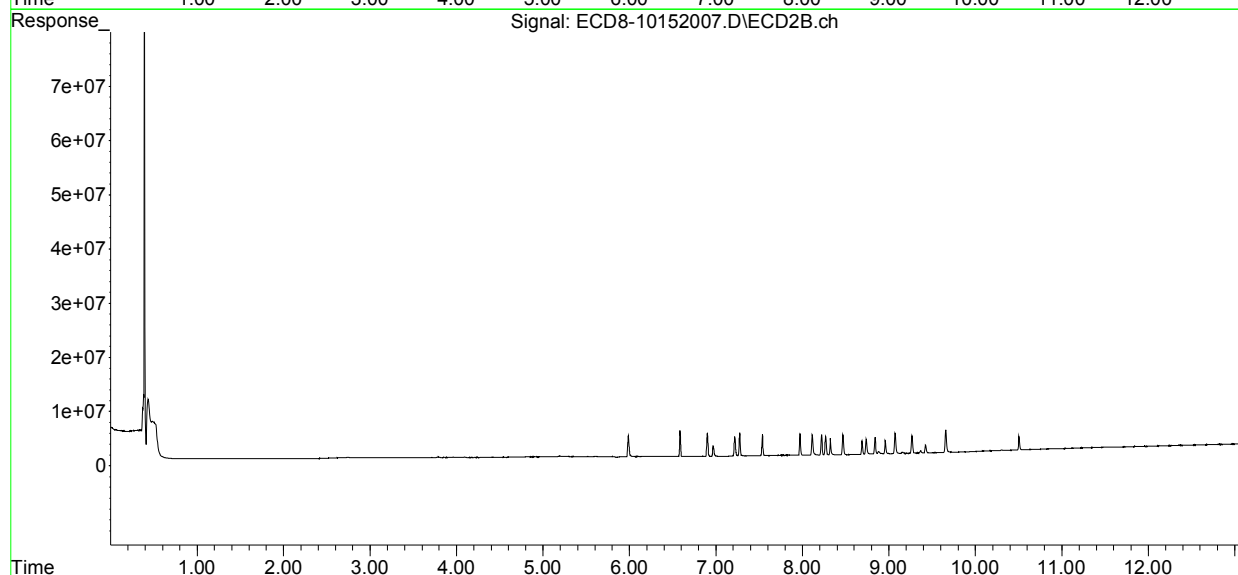
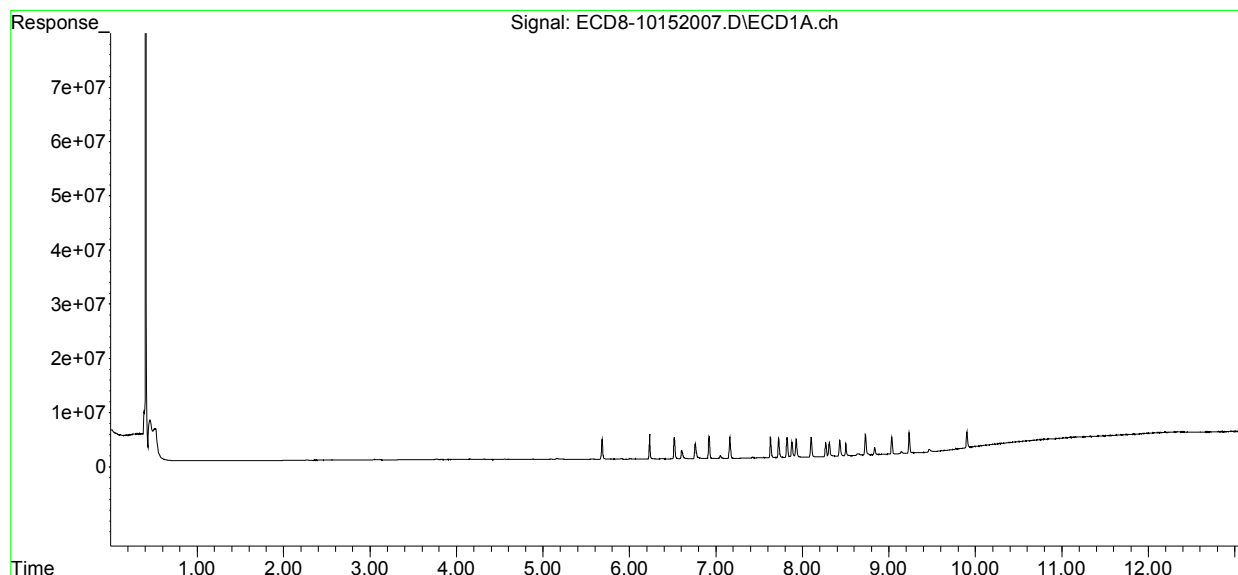
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.270	8.736	2564407	2804997	0.643	0.646
31)	Mirex	8.969	9.657	14063	4169368	BelowCal	1.411
32)	Chlordane...	7.726	8.112	3633454	3716881	8.820	7.630
33)	Chlordane...	7.823	8.219	3710813	3697197	8.853	8.930
34)	Chlordane...	0.000	8.882	0	448677	N.D.	3.317 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.823	8.467f	3710813	3654098	249.437	96.146 #
37)	Toxaphene...	8.100	0.000	3676591	0	111.619	N.D. #
38)	Toxaphene...	8.433	8.838	2928662	3080696	42.246	43.802
39)	Toxaphene...	8.637f	8.882	295960	448677	3.977	3.766
40)	Toxaphene...	8.883	9.072	23351	3815413	0.393	55.384 #
41)	Toxaphene...	8.969	9.424	14063	1490489	0.209	19.905 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152007.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:48  
Operator : MJB  
Sample : 0J15061-CAL2  
Misc : A20J275, AB 1 ppb  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:18 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152008.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:05  
 Operator : MJB  
 Sample : 0J15061-CAL3  
 Misc : A20H471, AB 2 ppb  
 ALS Vial : 6 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:27 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.990	6974987	7527988	1.972	1.882
22) S DCBP (S)	9.902	10.505	5701683	4791544	2.038	1.981
Target Compounds						
2) a-BHC	6.233	6.585	9063124	9584271	1.924	1.792
3) g-BHC	6.520	6.900	7694107	8481393	1.912	1.824
4) b-BHC	6.604	6.968	3020188	3743280	1.935	1.913
5) Heptachlor	6.919	7.274	7834074	8356845	1.930	1.826
6) d-BHC	6.758	7.216	5908930	7521244	1.978	1.927
7) Aldrin	7.162	7.536	7559480	7805224	1.925	1.828
8) Heptachlo...	7.631	7.971	7111174	7501012	1.945	1.868
9) trans-Chl...	7.725	8.111	7224345	7196150	1.962	1.808
10) cis-Chlor...	7.822	8.217	6946216	7123870	1.918	1.836
11) Endosulfa...	7.926	8.268	6845706	6450502	2.013	1.794
12) 4,4'-DDE	7.875	8.320	5832058	6467389	1.851	1.951
13) Dieldrin	8.099	8.466	7217877	7205936	1.921	1.897
14) Endrin	8.269	8.690	5198958	4965041	1.896	1.940
15) 4,4'-DDD	8.305	8.734	5108732	5453646	1.878	1.903
16) Endosulfa...	8.431	8.836	5775620	5953424	1.961	1.828
17) 4,4'-DDT	8.499	8.957	4776266	4865206	1.941	1.861
18) Endrin Al...	8.726	9.071	7357293	7179367	2.292	2.189
19) Endosulfa...	9.031	9.265	5905541	6267396	1.976	1.886
20) Methoxychlor	8.831	9.424	2713959	2917738	1.972	2.024
21) Endrin Ke...	9.233	9.655	7274419	7194544	1.967	1.842
23) Hexachlor...	3.474	3.716	4791	34774	BelowCal	BelowCal
24) Hexachlor...	6.068	6.451	65431	17657	0.019	0.004 #
25) Oxychlorane	7.566	7.888	48596	73763	0.015	0.021 #
26) 2,4'-DDE	7.631	8.111	7111174	7196150	3.302	2.926
27) trans-Non...	7.822	8.175	6946216	65707	1.906	0.016 #
28) 2,4'-DDD	8.034f	8.466	36699	7205936	0.019	3.150 #
29) 2,4'-DDT	8.184	8.690	30346	4965041	0.014	2.236 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152008.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:05  
 Operator : MJB  
 Sample : 0J15061-CAL3  
 Misc : A20H471, AB 2 ppb  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:27 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

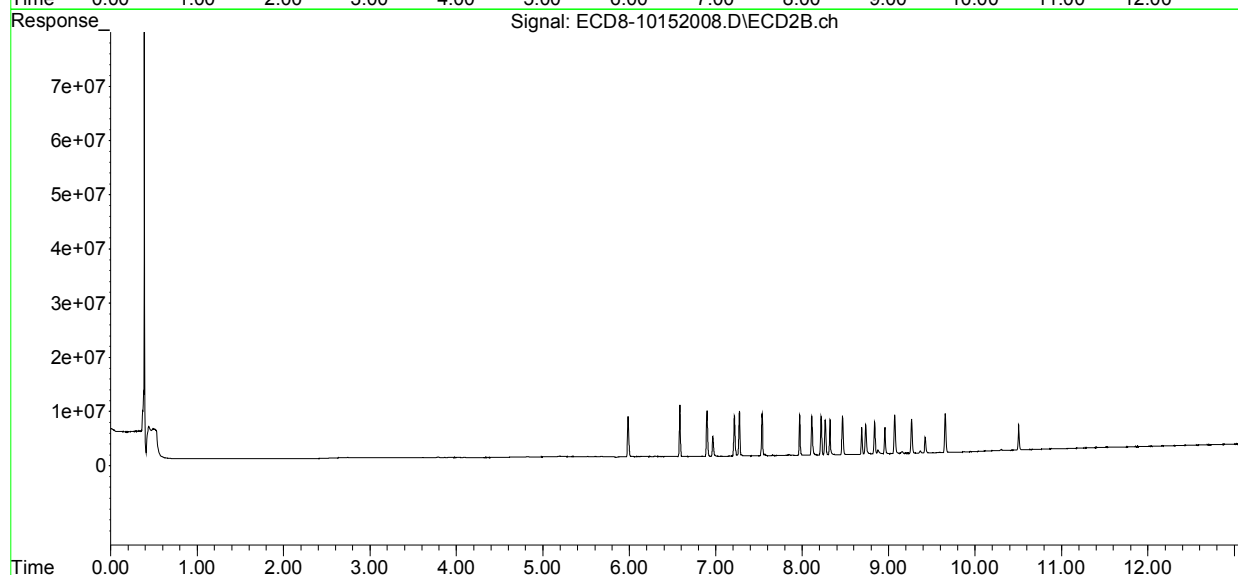
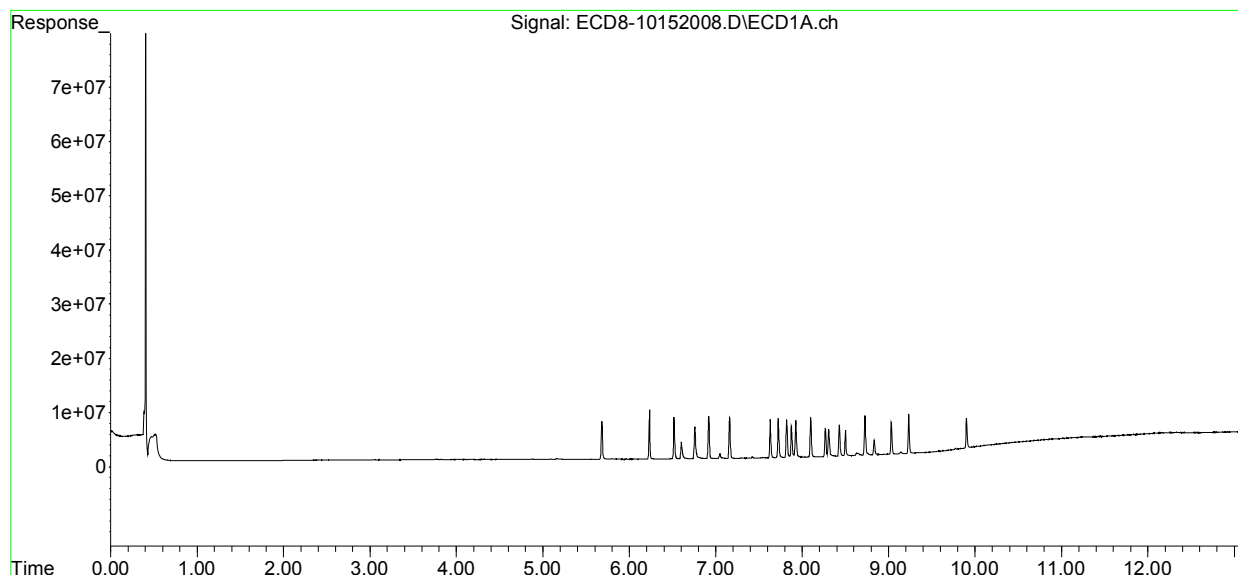
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.269	8.734	5198958	5453646	1.303	1.257
31)	Mirex	8.961	9.655	32360	7194544	BelowCal	2.674
32)	Chlordane...	7.725	8.111	7224345	7196150	17.537	14.772
33)	Chlordane...	7.822	8.217	6946216	7123870	16.572	17.207
34)	Chlordane...	8.398	8.878	38979	707915	0.302	5.234 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.822	8.431	6946216	7391	466.917	0.194 #
37)	Toxaphene...	8.099	0.000	7217877	0	219.131	N.D. #
38)	Toxaphene...	8.431	8.836	5775620	5953424	83.314	84.647
39)	Toxaphene...	8.632f	8.878	493164	707915	6.627	5.942
40)	Toxaphene...	8.898	9.071	24194	7179367	0.408	104.214 #
41)	Toxaphene...	8.961	9.424	32360	2917738	0.481	38.965 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152008.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:05  
Operator : MJB  
Sample : 0J15061-CAL3  
Misc : A20H471, AB 2 ppb  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:27 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152009.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:21  
 Operator : MJB  
 Sample : 0J15061-CAL4  
 Misc : A20H472, AB 5 ppb  
 ALS Vial : 7 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:36 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.990	16956681	18484065	4.795	4.620
22) S DCBP (S)	9.902	10.505	12863204	11283832	4.926	4.664
Target Compounds						
2) a-BHC	6.233	6.585	22751844	25276916	4.829	4.726
3) g-BHC	6.521	6.900	18571945	21316708	4.615	4.584
4) b-BHC	6.605	6.968	6967859	8823163	4.464	4.509
5) Heptachlor	6.920	7.274	19135941	20724830	4.715	4.528
6) d-BHC	6.759	7.216	14723164	19014583	4.816	4.743
7) Aldrin	7.163	7.537	19043093	19417167	4.848	4.548
8) Heptachlo...	7.633	7.971	17849960	18369288	4.882	4.574
9) trans-Chl...	7.725	8.111	17399945	18128038	4.725	4.555
10) cis-Chlor...	7.823	8.218	17370803	17821595	4.796	4.594
11) Endosulfa...	7.927	8.268	16393128	16389737	4.820	4.557
12) 4,4'-DDE	7.876	8.320	14353371	15866253	4.555	4.690
13) Dieldrin	8.100	8.466	18084070	18768975	4.814	4.892
14) Endrin	8.270	8.689	12643881	12382702	4.611	4.769
15) 4,4'-DDD	8.306	8.734	12317174	13730751	4.529	4.761
16) Endosulfa...	8.432	8.836	13817746	14467378	4.691	4.443
17) 4,4'-DDT	8.500	8.958	11690217	12754125	4.680	4.738
18) Endrin Al...	8.726	9.071	14781149	15071497	4.908	4.885
19) Endosulfa...	9.031	9.265	13964857	14969553	4.673	4.505
20) Methoxychlor	8.832	9.423	6325525	6672527	4.595	4.670
21) Endrin Ke...	9.234	9.655	18023751	17644405	4.874	4.517
23) Hexachlor...	3.478	3.716	8052	33249	BelowCal	BelowCal
24) Hexachlor...	6.070	6.454	55293	35397	0.016	0.009 #
25) Oxychlorane	7.567	7.886	98221	75224	0.030	0.021 #
26) 2,4'-DDE	7.633	8.111	17849960	18128038	8.289	7.370
27) trans-Non...	7.823	8.173	17370803	104482	4.765	0.026 #
28) 2,4'-DDD	0.000	8.466	0	18768975	N.D.	8.206 #
29) 2,4'-DDT	8.180	8.689	60601	12382702	0.028	5.742 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152009.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:21  
 Operator : MJB  
 Sample : 0J15061-CAL4  
 Misc : A20H472, AB 5 ppb  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:36 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

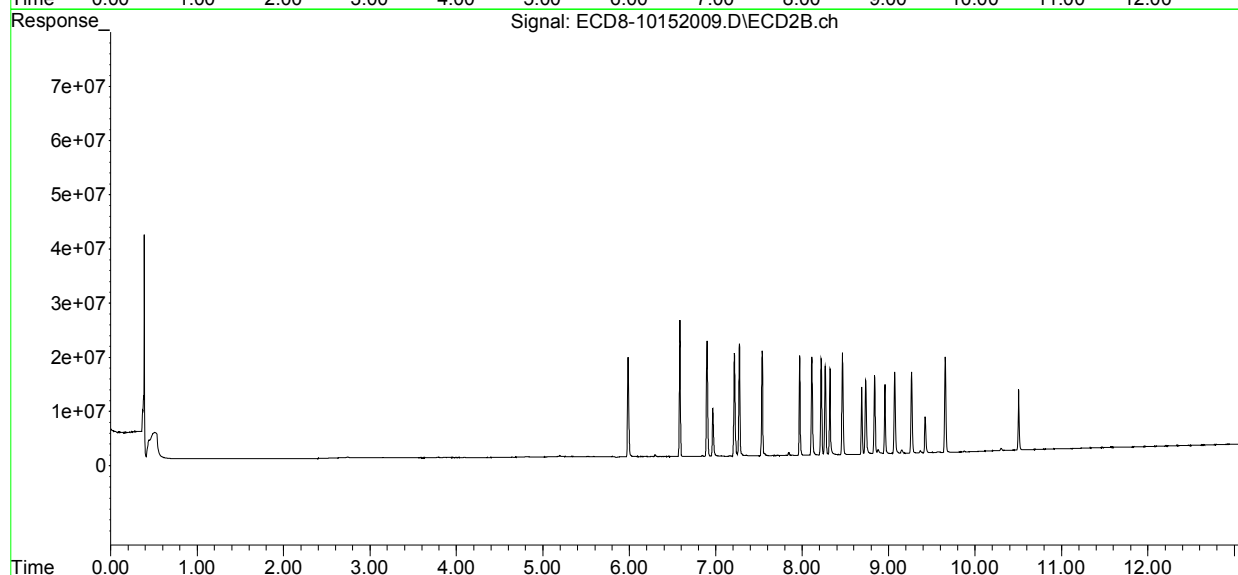
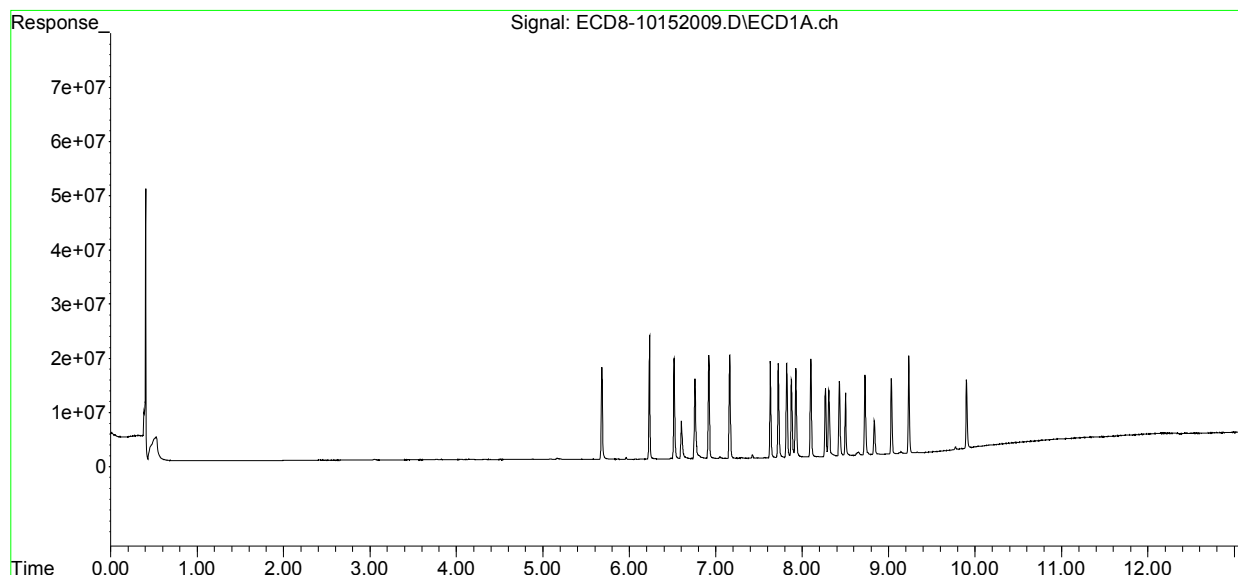
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.270	8.734	12643881	13730751	3.169	3.164
31)	Mirex	8.959	9.655	22892	17644405	BelowCal	7.023
32)	Chlordane...	7.725	8.111	17399945	18128038	42.238	37.213
33)	Chlordane...	7.823	8.218	17370803	17821595	41.442	43.047
34)	Chlordane...	0.000	8.879	0	762586	N.D.	5.638 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.823	8.424	17370803	38904	1167.646	1.024 #
37)	Toxaphene...	8.100	0.000	18084070	0	549.022	N.D. #
38)	Toxaphene...	8.432	8.836	13817746	14467378	199.323	205.699
39)	Toxaphene...	8.650	8.879	670904	762586	9.015	6.401 #
40)	Toxaphene...	8.884	9.071	106803	15071497	1.799	218.775 #
41)	Toxaphene...	8.959	9.423	22892	6672527	0.340	89.108 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152009.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:21  
Operator : MJB  
Sample : 0J15061-CAL4  
Misc : A20H472, AB 5 ppb  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:36 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152010.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:38  
 Operator : MJB  
 Sample : 0J15061-CAL5  
 Misc : A20H473, AB 10 ppb  
 ALS Vial : 8 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:46 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.989	33785802	37691189	9.554	9.421
22) S DCBP (S)	9.902	10.504	25663363	22219920	10.082	9.184
Target Compounds						
2) a-BHC	6.233	6.584	45945237	51661582	9.752	9.658
3) g-BHC	6.520	6.900	39002587	45048871	9.691	9.687
4) b-BHC	6.603	6.967	14251469	17799613	9.131	9.097
5) Heptachlor	6.919	7.273	39173115	44108090	9.652	9.637
6) d-BHC	6.757	7.215	30313826	40912398	9.767	10.027
7) Aldrin	7.161	7.536	39135359	41106892	9.963	9.629
8) Heptachlo...	7.631	7.971	35393917	38488002	9.681	9.584
9) trans-Chl...	7.725	8.111	35298078	37624061	9.585	9.453
10) cis-Chlor...	7.822	8.218	35411410	37266618	9.776	9.606
11) Endosulfa...	7.926	8.267	32830959	34291287	9.653	9.535
12) 4,4'-DDE	7.875	8.320	30250769	33692294	9.600	9.799
13) Dieldrin	8.099	8.466	37548230	38676878	9.995	9.988
14) Endrin	8.269	8.689	25971387	24972648	9.471	9.491
15) 4,4'-DDD	8.305	8.733	25608106	29438067	9.416	10.096
16) Endosulfa...	8.431	8.835	28511350	30118924	9.680	9.250
17) 4,4'-DDT	8.499	8.957	25096147	26962252	9.911	9.807
18) Endrin Al...	8.725	9.070	27881516	29477669	9.524	9.774
19) Endosulfa...	9.030	9.264	28097911	30451627	9.402	9.165
20) Methoxychlor	8.832	9.423	12655213	14104841	9.193	9.834
21) Endrin Ke...	9.232	9.654	35605046	36555813	9.629	9.358
23) Hexachlor...	3.475	3.717	10195	35516	BelowCal	BelowCal
24) Hexachlor...	6.070	6.453	72562	31391	0.021	0.008 #
25) Oxychlorane	7.565	7.890	181867	83246	0.056	0.023 #
26) 2,4'-DDE	7.631	8.111	35393917	37624061	16.436	15.297
27) trans-Non...	7.822	8.174	35411410	184607	9.715	0.046 #
28) 2,4'-DDD	0.000	8.466	0	38676878	N.D.	16.910 #
29) 2,4'-DDT	8.182	8.689	129283	24972648	0.059	11.586 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152010.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:38  
 Operator : MJB  
 Sample : 0J15061-CAL5  
 Misc : A20H473, AB 10 ppb  
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:46 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.269	8.733	25971387	29438067	6.509	6.782
31)	Mirex	8.963	9.654	40708	36555813	BelowCal	14.835
32)	Chlordane...	7.725	8.111	35298078	37624061	85.685	77.235
33)	Chlordane...	7.822	8.218	35411410	37266618	84.482	90.016
34)	Chlordane...	0.000	8.878	0	894100	N.D.	6.611 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.822	8.466f	35411410	38676878	2380.315	1017.664 #
37)	Toxaphene...	8.099	0.000	37548230	0	1139.944	N.D. #
38)	Toxaphene...	8.431	8.835	28511350	30118924	411.280	428.235
39)	Toxaphene...	8.649	8.878	1197276	894100	16.088	7.505 #
40)	Toxaphene...	0.000	9.070	0	29477669	N.D.	427.892 #
41)	Toxaphene...	8.963	9.423	40708	14104841	0.605	188.362 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

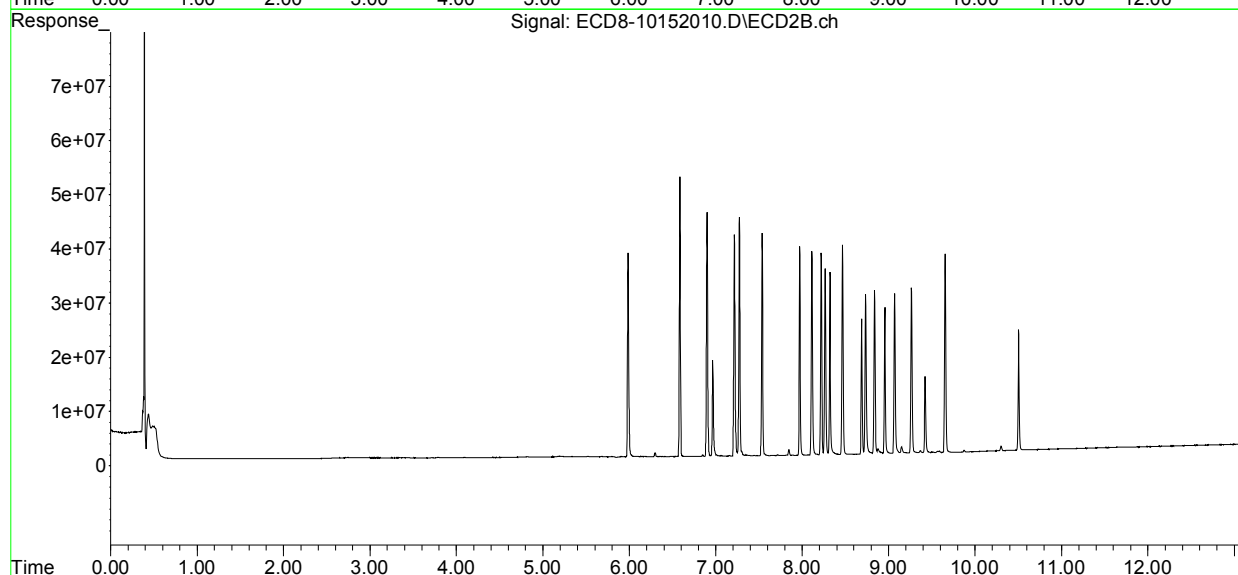
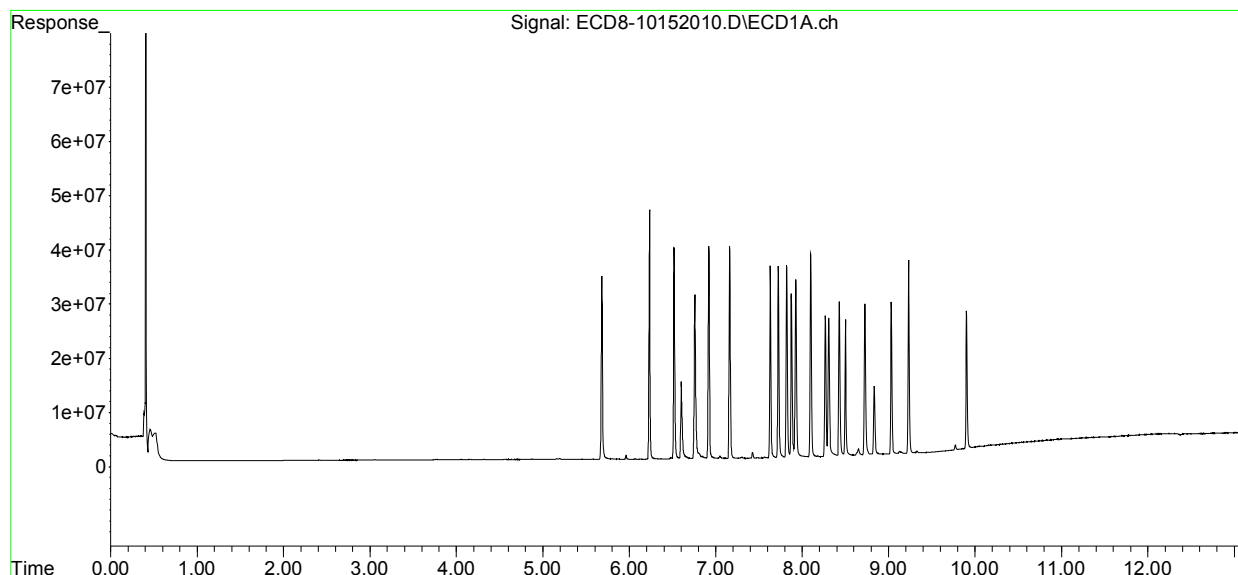
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152010.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:38  
Operator : MJB  
Sample : 0J15061-CAL5  
Misc : A20H473, AB 10 ppb  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:46 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152011.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:54  
 Operator : MJB  
 Sample : 0J15061-CAL6  
 Misc : A20H474, AB 25 ppb  
 ALS Vial : 9 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.989	86612386	97518197	24.492	24.374
22) S DCBP (S)	9.902	10.504	62318460	56260952	24.812	23.255
Target Compounds						
2) a-BHC	6.233	6.585	120.1E6	137.7E6	25.488	25.736
3) g-BHC	6.520	6.900	100.3E6	118.2E6	24.928	25.420
4) b-BHC	6.601	6.966	38003561	46171935	24.348	23.598
5) Heptachlor	6.919	7.273	101.7E6	114.2E6	25.052	24.951
6) d-BHC	6.755	7.215	82864455	109.6E6	25.850	25.955
7) Aldrin	7.161	7.536	97817805	109.3E6	24.903	25.592
8) Heptachlo...	7.631	7.971	89599740	99299787	24.507	24.727
9) trans-Chl...	7.724	8.111	91365998	97950589	24.810	24.609
10) cis-Chlor...	7.821	8.217	88782494	95308938	24.510	24.566
11) Endosulfa...	7.925	8.267	83964035	90769540	24.686	25.239
12) 4,4'-DDE	7.874	8.320	79179643	92501534	25.128	25.932
13) Dieldrin	8.099	8.466	93635281	103.9E6	24.924	26.176
14) Endrin	8.269	8.689	68701409	70747094	25.052	25.899
15) 4,4'-DDD	8.304	8.733	67884289	76853167	24.961	25.550
16) Endosulfa...	8.431	8.836	72694490	79168334	24.680	24.315
17) 4,4'-DDT	8.499	8.957	68705008	76033637	26.261	26.346
18) Endrin Al...	8.726	9.070	68571764	73274578	23.861	24.407
19) Endosulfa...	9.030	9.264	71990912	78726299	24.088	23.693
20) Methoxychlor	8.831	9.422	32595572	37809034	23.679	25.691
21) Endrin Ke...	9.232	9.655	88349751	93392767	23.892	23.909
23) Hexachlor...	0.000	3.716	0	40736	N.D.	BelowCal
24) Hexachlor...	6.069	6.445	187720	31011	0.056	0.008 #
25) Oxychlorane	7.565	7.886	428478	102845	0.132	0.029 #
26) 2,4'-DDE	7.631	8.111	89599740	97950589	41.609	39.825
27) trans-Non...	7.821	8.175	88782494	362727	24.356	0.091 #
28) 2,4'-DDD	0.000	8.466	0	103.9E6	N.D.	45.407 #
29) 2,4'-DDT	8.180	8.689	293338	70747094	0.135	31.823 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152011.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:54  
 Operator : MJB  
 Sample : 0J15061-CAL6  
 Misc : A20H474, AB 25 ppb  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:30:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

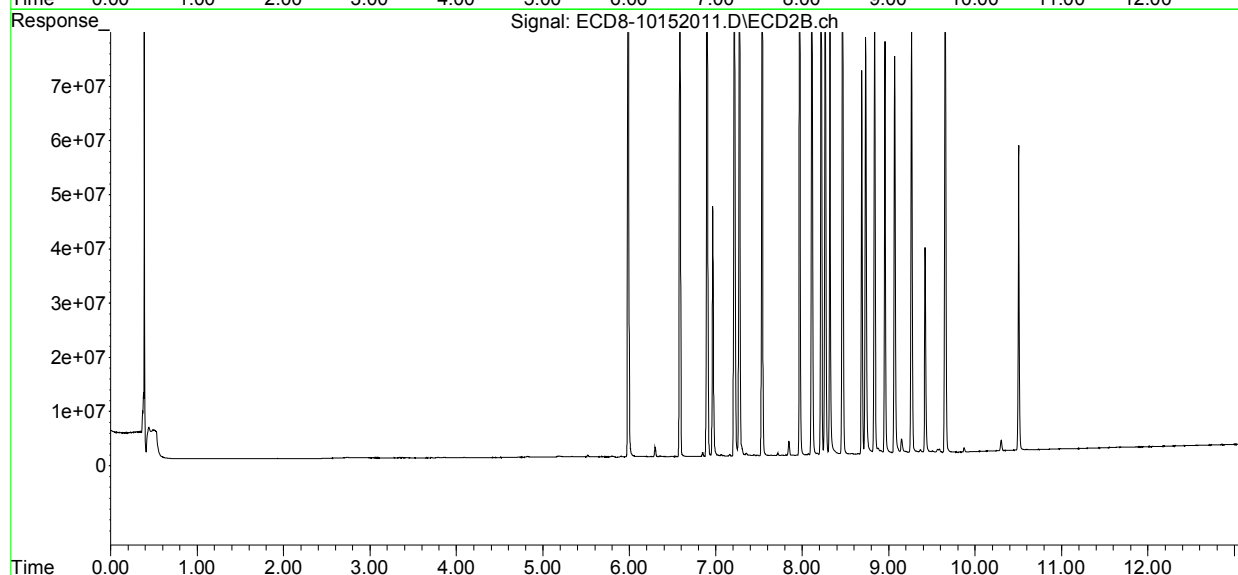
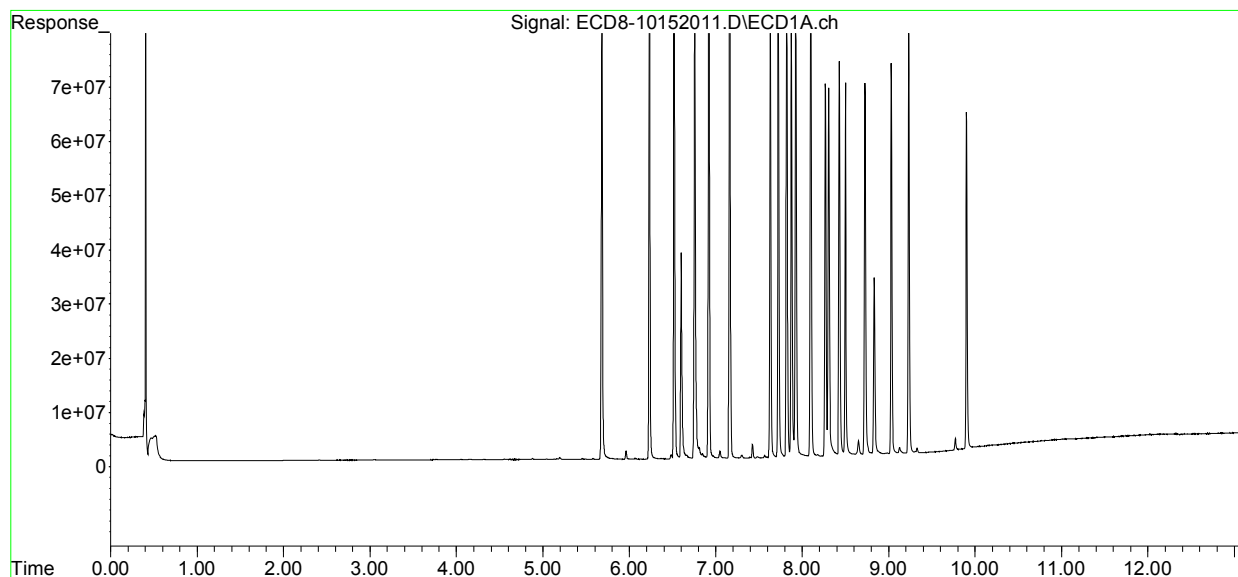
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.269	8.733	68701409	76853167	17.219	17.707
31)	Mirex	8.963	9.655	104068	93392767	BelowCal	37.883
32)	Chlordane...	7.724	8.111	91365998	97950589	221.788	201.073
33)	Chlordane...	7.821	8.217	88782494	95308938	211.811	230.214
34)	Chlordane...	0.000	8.878	0	1038872	N.D.	7.681 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.821	8.466f	88782494	103.9E6	5967.860	2732.677 #
37)	Toxaphene...	8.099	0.000	93635281	0	2842.716	N.D. #
38)	Toxaphene...	8.431	8.836	72694490	79168334	1048.629	1125.627
39)	Toxaphene...	8.649	8.878	2575177	1038872	34.603	8.720 #
40)	Toxaphene...	8.877	9.070	579947	73274578	9.769	1063.639 #
41)	Toxaphene...	8.963	9.422	104068	37809034	1.546	504.917 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152011.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:54  
Operator : MJB  
Sample : 0J15061-CAL6  
Misc : A20H474, AB 25 ppb  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:30:56 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152012.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:11  
 Operator : MJB  
 Sample : 0J15061-CAL7  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 10 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:31:07 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	171.3E6	202.3E6	48.444	50.565
22) S DCBP (S)	9.903	10.506	121.6E6	112.4E6	48.516	46.473
Target Compounds						
2) a-BHC	6.234	6.585	237.8E6	276.4E6	50.473	51.676
3) g-BHC	6.520	6.900	199.7E6	242.4E6	49.621	52.132
4) b-BHC	6.601	6.966	77551148	98666610	49.685	50.427
5) Heptachlor	6.919	7.273	197.0E6	235.2E6	48.534	51.388
6) d-BHC	6.755	7.215	170.5E6	227.1E6	50.904	51.316
7) Aldrin	7.162	7.537	193.9E6	228.4E6	49.359	53.499
8) Heptachlo...	7.631	7.971	175.7E6	201.0E6	48.059	50.063
9) trans-Chl...	7.723	8.110	183.0E6	206.2E6	49.697	51.813
10) cis-Chlor...	7.821	8.217	175.8E6	195.5E6	48.523	50.388
11) Endosulfa...	7.925	8.267	164.8E6	182.7E6	48.441	50.800
12) 4,4'-DDE	7.872	8.319	165.1E6	195.7E6	52.403	52.021
13) Dieldrin	8.098	8.465	187.2E6	205.8E6	49.834	50.144
14) Endrin	8.268	8.689	138.9E6	147.3E6	50.635	51.139
15) 4,4'-DDD	8.303	8.733	134.1E6	163.2E6	49.303	51.600
16) Endosulfa...	8.429	8.835	142.3E6	165.5E6	48.327	50.820
17) 4,4'-DDT	8.498	8.957	137.9E6	158.4E6	50.422	51.434
18) Endrin Al...	8.724	9.071	134.3E6	146.0E6	47.014	47.993
19) Endosulfa...	9.030	9.264	142.5E6	162.8E6	47.692	49.007
20) Methoxychlor	8.831	9.423	63985860	75074553	46.482	49.009
21) Endrin Ke...	9.233	9.656	178.0E6	193.2E6	48.141	49.467
23) Hexachlor...	3.481	3.715	12969	36799	BelowCal	BelowCal
24) Hexachlor...	6.069	6.450	374979	21131	0.111	0.005 #
25) Oxychlorane	7.564	7.887	829530	219488	0.255	0.061 #
26) 2,4'-DDE	7.631	8.110	175.7E6	206.2E6	81.594	83.847
27) trans-Non...	7.821	8.175	175.8E6	637724	48.217	0.159 #
28) 2,4'-DDD	0.000	8.465	0	205.8E6	N.D.	89.975 #
29) 2,4'-DDT	8.179	8.689	557285	147.3E6	0.256	62.777 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152012.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:11  
 Operator : MJB  
 Sample : 0J15061-CAL7  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:31:07 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

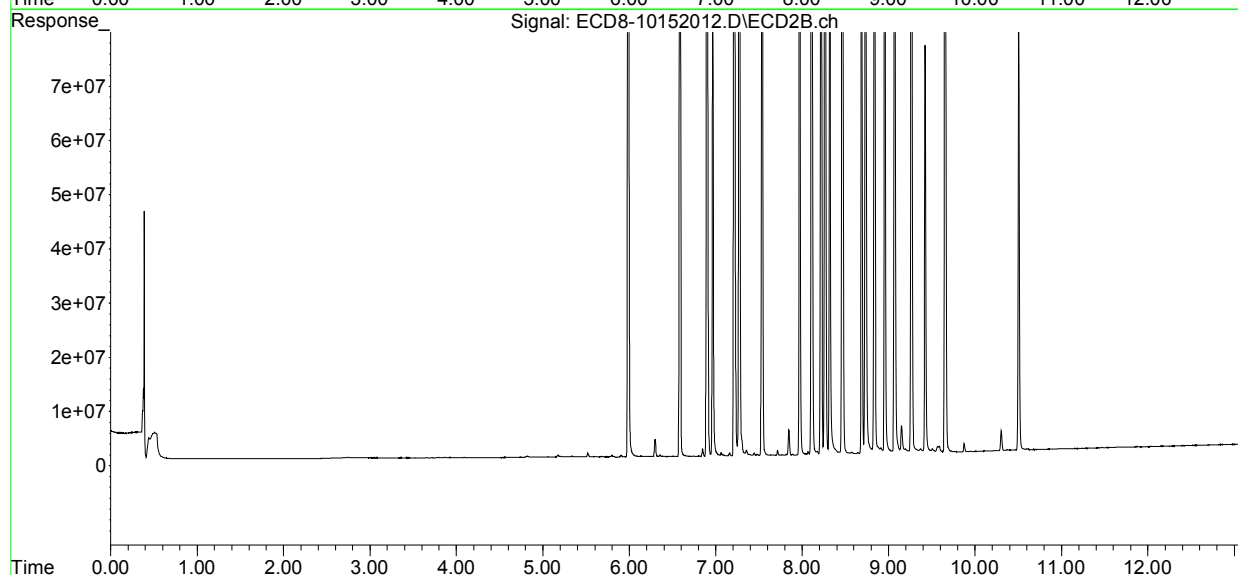
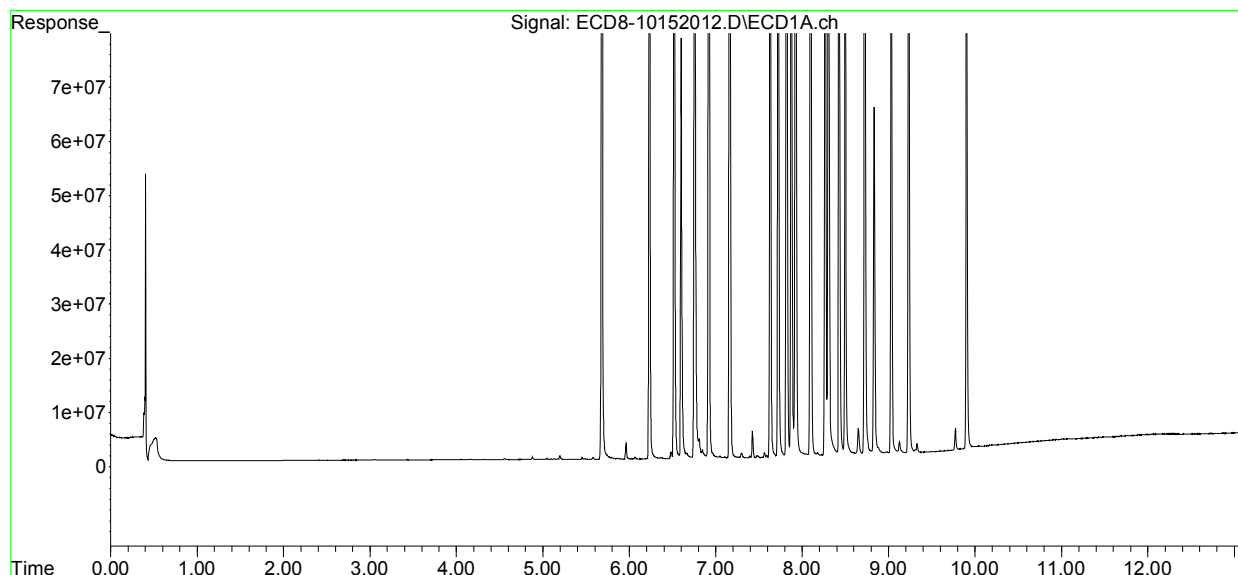
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.268	8.733	138.9E6	163.2E6	34.803	37.601
31)	Mirex	8.964	9.656	213223	193.2E6	BelowCal	76.930
32)	Chlordane...	7.723	8.110	183.0E6	206.2E6	444.273	423.341
33)	Chlordane...	7.821	8.217	175.8E6	195.5E6	419.319	472.193
34)	Chlordane...	0.000	8.875	0	1245824	N.D.	9.211 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.821	8.465f	175.8E6	205.8E6	11814.511	5414.911 #
37)	Toxaphene...	8.098	0.000	187.2E6	0	5683.784	N.D. #
38)	Toxaphene...	8.429	8.835	142.3E6	165.5E6	2053.330	2352.685
39)	Toxaphene...	8.649	8.875	4755814	1245824	63.905	10.457 #
40)	Toxaphene...	8.881	9.071	1098469	146.0E6	18.504	2119.882 #
41)	Toxaphene...	8.964	9.423	213223	75074553	3.167	1002.575 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152012.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 20:11  
Operator : MJB  
Sample : 0J15061-CAL7  
Misc : A20H475, AB 50 ppb  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:31:07 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152013.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:27  
 Operator : MJB  
 Sample : 0J15061-CAL8  
 Misc : A20H476, AB 100 ppb  
 ALS Vial : 11 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:31:17 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	5.683	5.990	353.9E6	425.7E6	100.085	106.406
22) S	DCBP (S)	9.902	10.504	254.4E6	242.3E6	101.182	100.154
Target Compounds							
2)	a-BHC	6.234	6.585	492.9E6	598.9E6	104.615	111.971
3)	g-BHC	6.520	6.900	432.4E6	506.9E6	107.443	109.005
4)	b-BHC	6.599	6.965	173.0E6	211.1E6	110.831	107.883
5)	Heptachlor	6.918	7.273	425.5E6	500.4E6	104.835	109.320
6)	d-BHC	6.751	7.213	384.5E6	507.6E6	105.125	104.749
7)	Aldrin	7.160	7.536	415.8E6	476.9E6	105.847	111.713
8)	Heptachlo...	7.629	7.970	370.1E6	442.7E6	101.228	110.241
9)	trans-Chl...	7.722	8.110	386.7E6	449.4E6	105.008	112.897
10)	cis-Chlor...	7.820	8.217	372.5E6	421.6E6	102.832	108.657
11)	Endosulfa...	7.924	8.267	346.0E6	395.1E6	101.717	109.862
12)	4,4'-DDE	7.870	8.318	362.8E6	440.1E6	115.131	105.816
13)	Dieldrin	8.098	8.465	395.8E6	459.8E6	105.360	104.252
14)	Endrin	8.268	8.689	308.9E6	345.9E6	112.656	107.687
15)	4,4'-DDD	8.300	8.731	313.9E6	361.9E6	115.426	104.155
16)	Endosulfa...	8.429	8.835	312.1E6	366.8E6	105.978	112.656
17)	4,4'-DDT	8.497	8.956	321.4E6	373.7E6	106.851	106.702
18)	Endrin Al...	8.724	9.070	282.4E6	319.3E6	99.188	100.997
19)	Endosulfa...	9.030	9.264	301.0E6	361.9E6	100.718	108.930
20)	Methoxychlor	8.827	9.422	158.4E6	181.1E6	115.051	107.480
21)	Endrin Ke...	9.232	9.656	368.2E6	418.0E6	99.568	107.020
23)	Hexachlor...	3.472	3.708	39913	44195	BelowCal	BelowCal
24)	Hexachlor...	6.070	6.456	756551	169916	0.224	0.042 #
25)	Oxychlorane	7.563	7.885	1627296	541268	0.500	0.152 #
26)	2,4'-DDE	7.629	8.110	370.1E6	449.4E6	171.865	182.696
27)	trans-Non...	7.820	8.175	372.5E6	1147906	102.184	0.287 #
28)	2,4'-DDD	8.039f	8.465	602816	459.8E6	0.310	201.029 #
29)	2,4'-DDT	8.178	8.689	1218495	345.9E6	0.560	131.602 #



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152013.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:27  
 Operator : MJB  
 Sample : 0J15061-CAL8  
 Misc : A20H476, AB 100 ppb  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:31:17 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

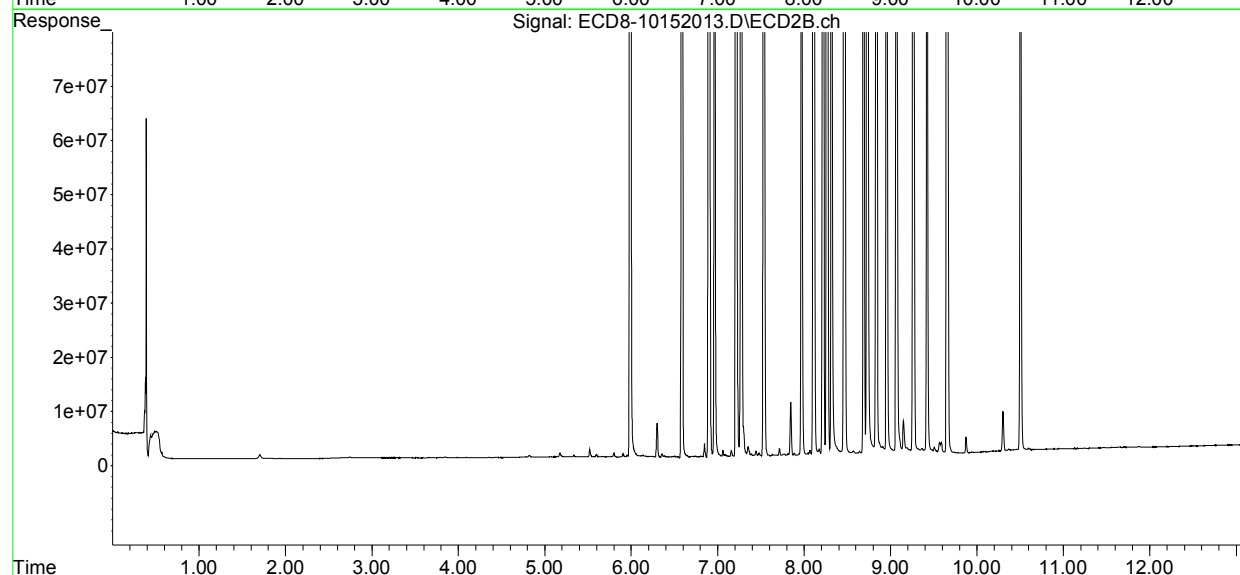
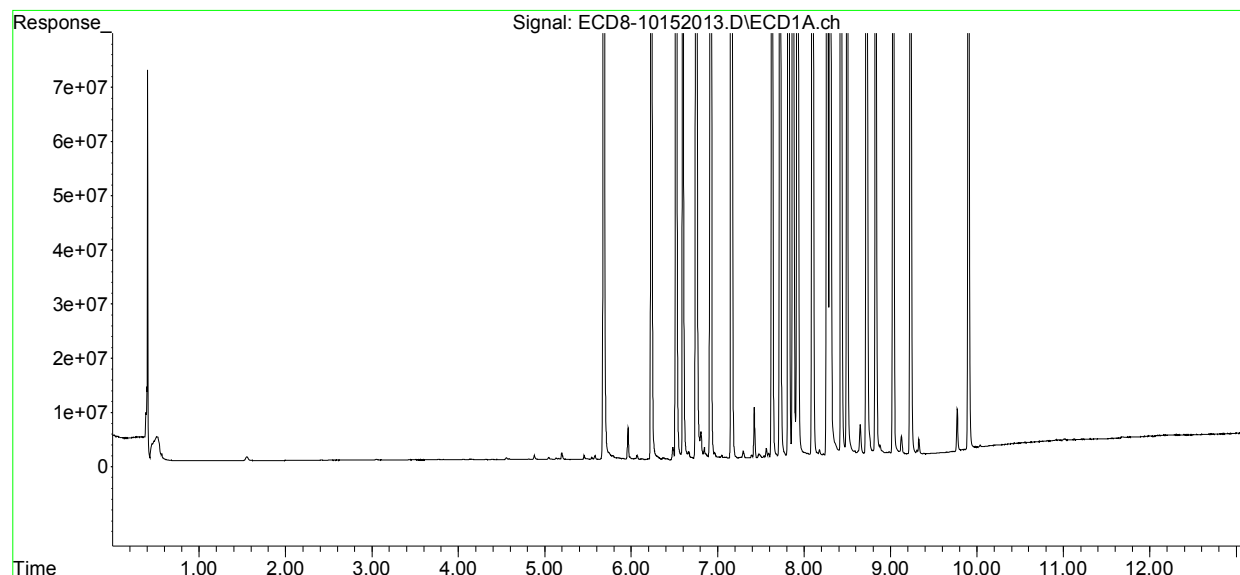
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.300	8.731	313.9E6	361.9E6	78.680	83.391
31)	Mirex	8.958	9.656	487895	418.0E6	BelowCal	159.151
32)	Chlordane...	7.722	8.110	386.7E6	449.4E6	938.729	922.426
33)	Chlordane...	7.820	8.217	372.5E6	421.6E6	888.637	1018.238
34)	Chlordane...	0.000	8.906f	0	1495013	N.D.	11.054 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.820	8.465f	372.5E6	459.8E6	25037.749	12098.394 #
37)	Toxaphene...	8.098	0.000	395.8E6	0	12016.858	N.D. #
38)	Toxaphene...	8.429	8.835	312.1E6	366.8E6	4502.803	5215.307
39)	Toxaphene...	8.648	8.906	5641100	1495013	75.800	12.549 #
40)	Toxaphene...	8.878	9.070	1851306	319.3E6	31.186	4635.029 #
41)	Toxaphene...	8.958	9.422f	487895	181.1E6	7.247	2419.073 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152013.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 20:27  
Operator : MJB  
Sample : 0J15061-CAL8  
Misc : A20H476, AB 100 ppb  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:31:17 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152014.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:44  
 Operator : MJB  
 Sample : 0J15061-CAL9  
 Misc : A20H470, AB 200 ppb  
 ALS Vial : 12 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:31:29 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.991	707.1E6	877.5E6	199.958	219.328
22) S DCBP (S)	9.903	10.505	508.9E6	513.8E6	200.396	212.372
Target Compounds						
2) a-BHC	6.234	6.586	999.0E6	1264.9E6	212.042	236.485
3) g-BHC	6.520	6.901	875.8E6	1095.4E6	217.618	235.537
4) b-BHC	6.599	6.966	348.7E6	427.2E6	223.404	218.338
5) Heptachlor	6.919	7.274	860.4E6	1063.1E6	211.990	232.284
6) d-BHC	6.752	7.214	812.4E6	1082.6E6	195.029	194.947
7) Aldrin	7.161	7.537	808.8E6	985.1E6	205.899	230.744
8) Heptachlo...	7.630	7.971	738.1E6	893.9E6	201.897	222.584
9) trans-Chl...	7.723	8.111	771.1E6	928.7E6	209.378	233.339
10) cis-Chlor...	7.820	8.218	744.5E6	889.6E6	205.523	229.305
11) Endosulfa...	7.924	8.267	695.9E6	827.3E6	204.590	230.023
12) 4,4'-DDE	7.870	8.319	733.3E6	932.3E6	232.716	193.902
13) Dieldrin	8.098	8.466	785.1E6	964.7E6	208.979	195.757
14) Endrin	8.267	8.689	618.0E6	717.2E6	225.373	193.184
15) 4,4'-DDD	8.300	8.732	624.8E6	785.4E6	229.726	195.491
16) Endosulfa...	8.429	8.835	627.2E6	777.0E6	212.956	238.645
17) 4,4'-DDT	8.497	8.957	664.3E6	806.5E6	193.766	193.667
18) Endrin Al...	8.724	9.070	583.5E6	684.2E6	205.164	201.324
19) Endosulfa...	9.030	9.265	596.2E6	743.8E6	199.484	223.866
20) Methoxychlor	8.828	9.422	315.4E6	372.5E6	229.151	194.544
21) Endrin Ke...	9.232	9.656	755.0E6	903.6E6	204.160	231.313
23) Hexachlor...	3.477	3.718	10639	36591	BelowCal	BelowCal
24) Hexachlor...	6.069	6.453	1365555	51879	0.404	0.013 #
25) Oxychlorane	7.563	7.886	3135692	607096	0.963	0.170 #
26) 2,4'-DDE	7.630	8.111	738.1E6	928.7E6	342.781	377.603
27) trans-Non...	7.820	8.175	744.5E6	1864329	204.229	0.466 #
28) 2,4'-DDD	8.009	8.466	1349192	964.7E6	0.694	421.751 #
29) 2,4'-DDT	8.177	8.689	2245182	717.2E6	1.032	234.852 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152014.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:44  
 Operator : MJB  
 Sample : 0J15061-CAL9  
 Misc : A20H470, AB 200 ppb  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:31:29 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

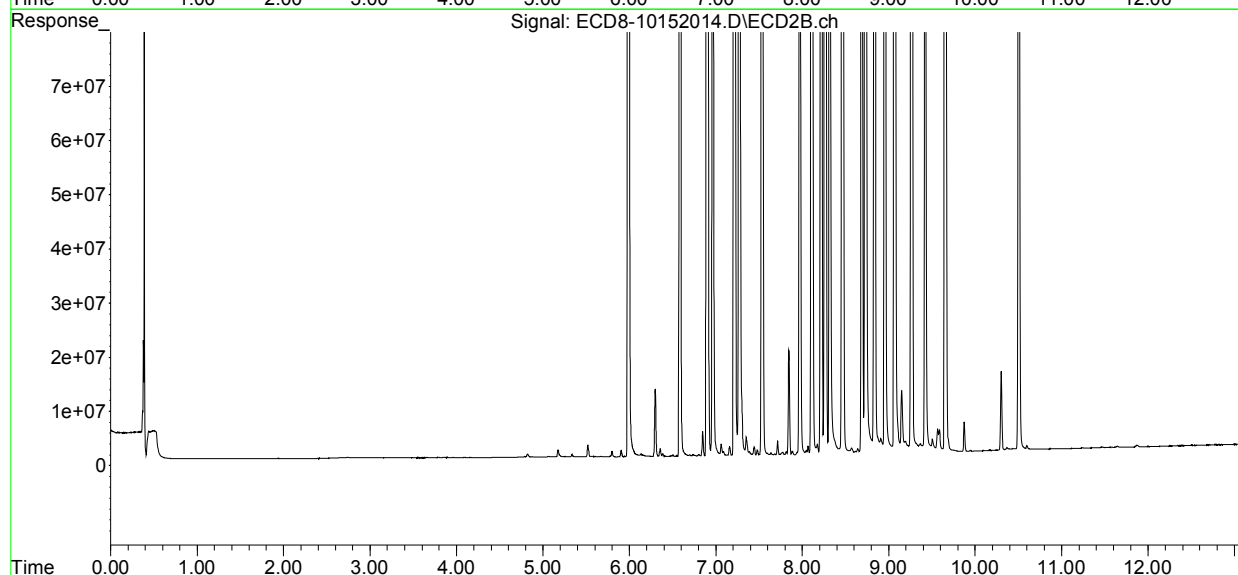
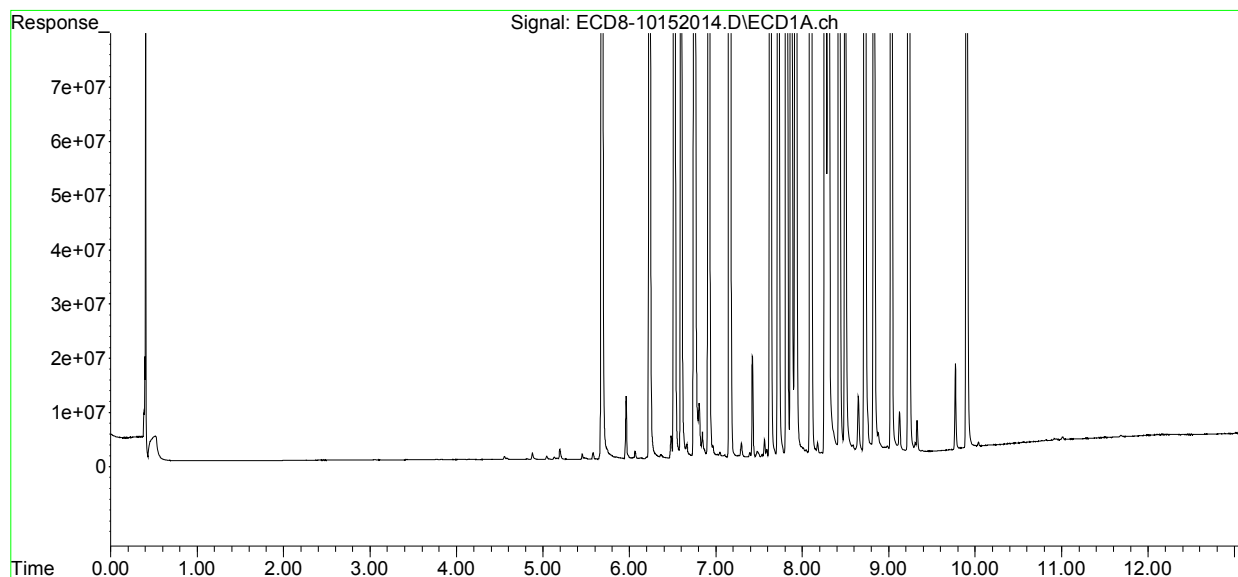
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.300	8.732	624.8E6	785.4E6	156.593	180.952
31)	Mirex	8.961	9.656	998875	903.6E6	0.122	316.534 #
32)	Chlordane...	7.723	8.111	771.1E6	928.7E6	1871.751	1906.504
33)	Chlordane...	7.820	8.218	744.5E6	889.6E6	1776.066	2148.856
34)	Chlordane...	0.000	8.835f	0	777.0E6	N.D.	5745.103 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.820	8.466f	744.5E6	964.7E6	50041.481	25382.040 #
37)	Toxaphene...	8.098	0.000	785.1E6	0	23835.220	N.D. #
38)	Toxaphene...	8.429	8.835	627.2E6	777.0E6	9048.138	11047.867
39)	Toxaphene...	8.647	8.907	10582094	2687443	142.193	22.558 #
40)	Toxaphene...	8.880	9.070	3719464	684.2E6	62.656	9932.263 #
41)	Toxaphene...	8.961	9.422f	998875	372.5E6	14.837	4974.796 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152014.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 20:44  
Operator : MJB  
Sample : 0J15061-CAL9  
Misc : A20H470, AB 200 ppb  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:31:29 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152017.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:33  
 Operator : MJB  
 Sample : 0J15061-CALA  
 Misc : A20J276, 9-42 0.5 ppb  
 ALS Vial : 14 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:40:51 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.684	6.009	18070	209078	0.005	0.052 #
22) S DCBP (S)	9.909	10.508	226604	71433	BelowCal	0.030
Target Compounds						
2) a-BHC	6.234	6.585	93052	100504	0.020	0.019
3) g-BHC	6.521	6.900	89900	82075	0.022	0.018
4) b-BHC	6.613	6.972	50932	78741	0.033	0.040
5) Heptachlor	6.921	7.273	59866	71674	0.015	0.016
6) d-BHC	6.766	7.220	144823	197447	0.105	0.116
7) Aldrin	7.164	7.539	53417	61917	0.014	0.015
8) Heptachlo...	7.627	7.971	1201503	91636	0.329	0.023 #
9) trans-Chl...	7.727	8.100	83452	1304771	0.023	0.328 #
10) cis-Chlor...	7.810	8.218	2163375	136666	0.597	0.035 #
11) Endosulfa...	7.928	8.270	83914	83552	0.025	0.023
12) 4,4'-DDE	7.879	8.324	140677	78162	0.045	0.071 #
13) Dieldrin	8.102	8.471	71440	1319106	0.019	0.361 #
14) Endrin	8.289f	8.691	2361680	1355429	0.861	0.550 #
15) 4,4'-DDD	8.289	8.737	2361680	2474139	0.868	0.866
16) Endosulfa...	8.438	8.840	95320	119722	0.032	0.037
17) 4,4'-DDT	8.504	8.962	75573	95652	0.062	0.099 #
18) Endrin Al...	8.731	9.074	328585	336359	BelowCal	BelowCal
19) Endosulfa...	9.035	9.267	228719	267471	0.077	0.080
20) Methoxychlor	8.838	9.425	37403	58164	0.027	BelowCal #
21) Endrin Ke...	9.237	9.647	196289	1941278	0.053	0.497 #
23) Hexachlor...	3.475	3.703	2239091	2507236	0.499	0.500
24) Hexachlor...	6.070	6.454	1970418	2349149	0.589	0.590
25) Oxychlorane	7.556	7.904	1937874	2061148	0.600	0.586
26) 2,4'-DDE	7.627	8.100	1201503	1304771	0.565	0.538
27) trans-Non...	7.810	8.179	2163375	2327996	0.599	0.590
28) 2,4'-DDD	8.006	8.471	1125210	1319106	0.586	0.484
29) 2,4'-DDT	8.185	8.691	1221609	1355429	0.569	0.511

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152017.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:33  
 Operator : MJB  
 Sample : 0J15061-CALA  
 Misc : A20J276, 9-42 0.5 ppb  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:40:51 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

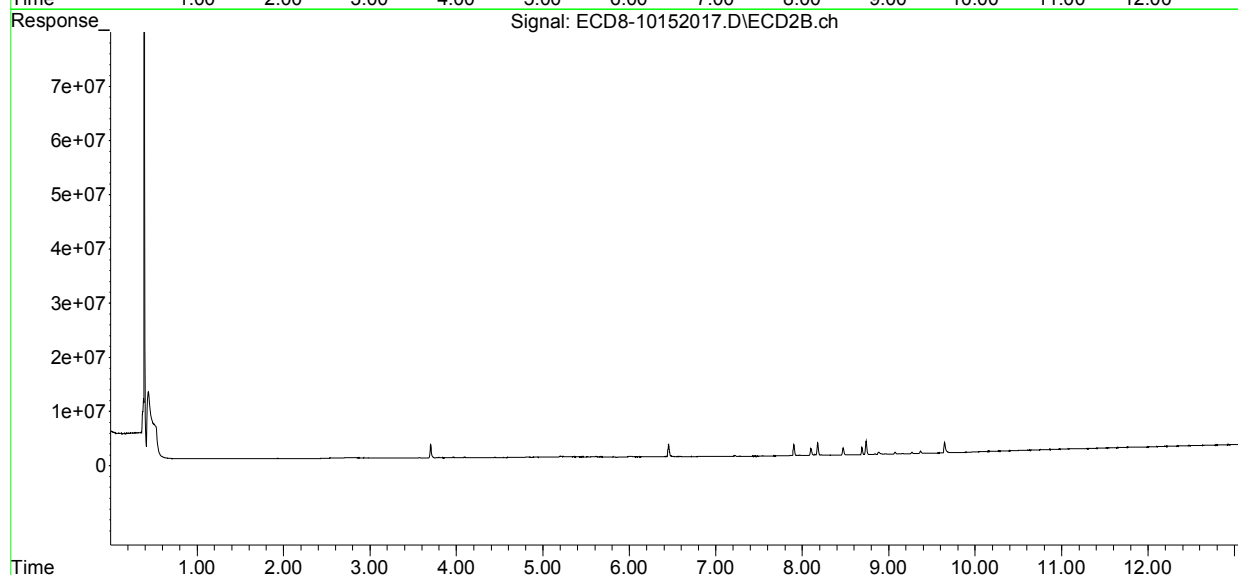
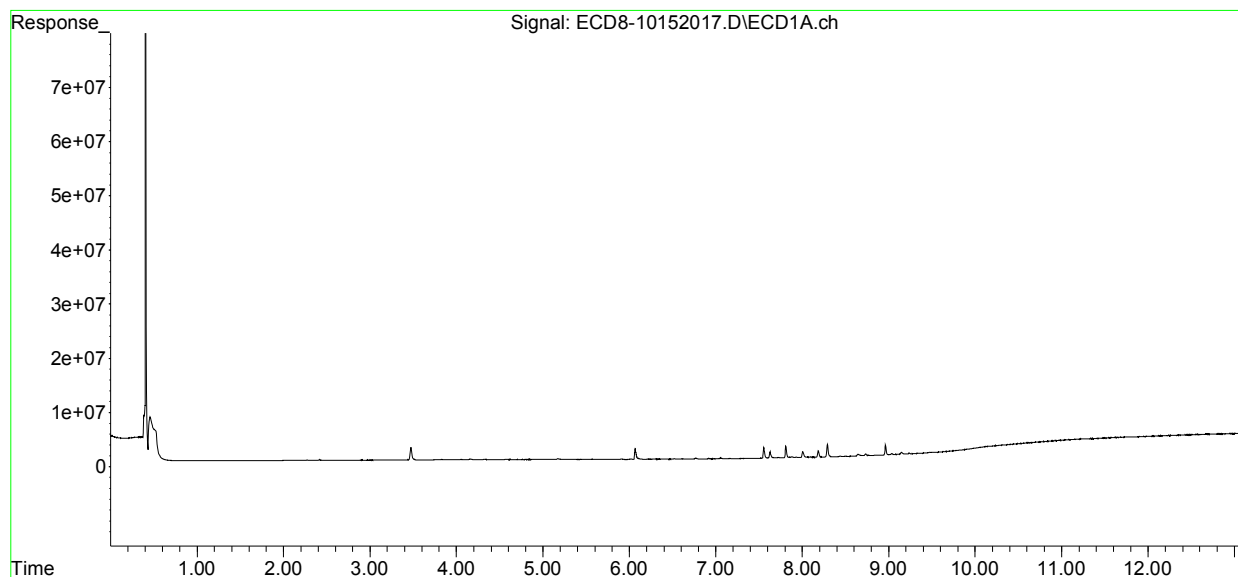
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.289	8.737	2361680	2474139	0.599	0.578
31)	Mirex	8.964	9.647	1825977	1941278	0.473	0.478
32)	Chlordane...	7.727	8.100	83452	1304771	0.203	2.678 #
33)	Chlordane...	7.810	8.218	2163375	136666	5.161	0.330 #
34)	Chlordane...	8.382	8.884	14003	405965	0.109	3.002 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.810	8.442	2163375	4857	145.420	0.128 #
37)	Toxaphene...	8.102	8.798	71440	28661	2.169	0.608 #
38)	Toxaphene...	8.438	8.840	95320	119722	1.375	1.702
39)	Toxaphene...	8.643	8.884	304431	405965	4.091	3.408
40)	Toxaphene...	0.000	9.074	0	336359	N.D.	4.883 #
41)	Toxaphene...	8.964	9.445	1825977	16925	27.122	0.226 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:40:51 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152018.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:50  
 Operator : MJB  
 Sample : 0J15061-CALB  
 Misc : A20I180, 9-42 1 ppb  
 ALS Vial : 15 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:40:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.653f	5.991	31493	60808	0.009	0.015 #
22) S DCBP (S)	9.909	10.509	227878	57712	BelowCal	0.024
Target Compounds						
2) a-BHC	6.234	6.584	100774	127193	0.021	0.024
3) g-BHC	6.519	6.900	134304	112671	0.033	0.024 #
4) b-BHC	6.613	6.971	65424	100009	0.042	0.051
5) Heptachlor	6.920	7.274	99120	123162	0.024	0.027
6) d-BHC	6.763	7.218	166725	226780	0.112	0.123
7) Aldrin	7.163	7.537	82327	95571	0.021	0.022
8) Heptachlo...	7.626	7.971	2330761	135674	0.638	0.034 #
9) trans-Chl...	7.726	8.099	213854	2507932	0.058	0.630 #
10) cis-Chlor...	7.809	8.217	3910682	214545	1.080	0.055 #
11) Endosulfa...	7.927	8.269	90017	117700	0.026	0.033
12) 4,4'-DDE	7.865	8.322	110138	100769	0.035	0.077 #
13) Dieldrin	8.100	8.470	109817	2545735	0.029	0.682 #
14) Endrin	8.288f	8.691	4530614	2394823	1.652	0.952 #
15) 4,4'-DDD	8.288	8.737	4530614	4587763	1.666	1.602
16) Endosulfa...	8.436	8.838	122633	142804	0.042	0.044
17) 4,4'-DDT	8.502	8.959	53824	80050	0.054	0.093 #
18) Endrin Al...	8.729	9.073	292807	306207	BelowCal	BelowCal
19) Endosulfa...	9.034	9.266	222830	221707	0.075	0.067
20) Methoxychlor	8.835	9.425	32315	41646	0.023	BelowCal #
21) Endrin Ke...	9.237	9.646	178999	3435505	0.048	0.880 #
23) Hexachlor...	3.474	3.703	3774672	4324213	0.991	0.998
24) Hexachlor...	6.070	6.454	3664461	4208870	1.095	1.058
25) Oxychlorane	7.555	7.903	3610716	3742926	1.118	1.063
26) 2,4'-DDE	7.626	8.099	2330761	2507932	1.096	1.034
27) trans-Non...	7.809	8.178	3910682	4195390	1.082	1.064
28) 2,4'-DDD	8.004	8.470	2191428	2545735	1.141	1.098
29) 2,4'-DDT	8.183	8.691	2264292	2394823	1.055	1.017

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152018.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:50  
 Operator : MJB  
 Sample : 0J15061-CALB  
 Misc : A20I180, 9-42 1 ppb  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:40:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

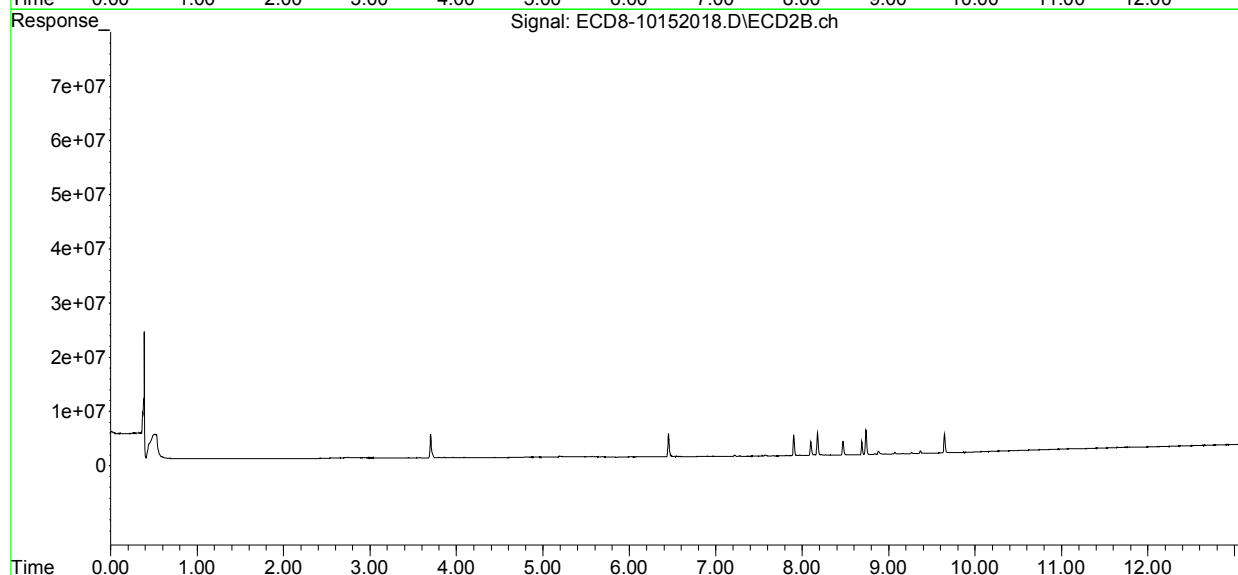
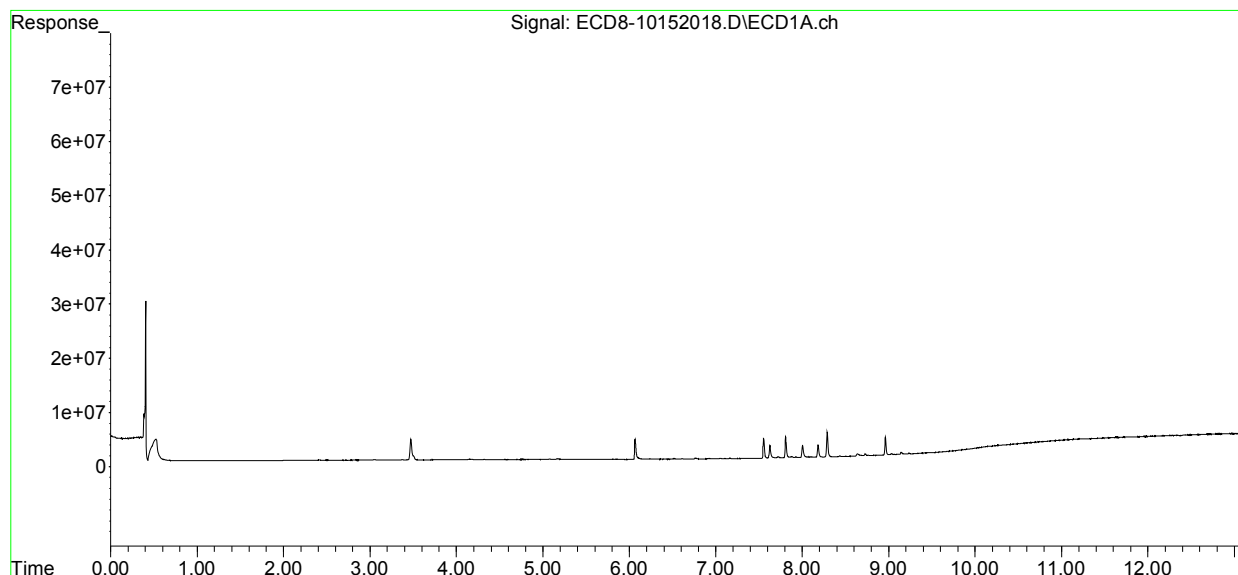
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.737	4530614	4587763	1.149	1.072
31)	Mirex	8.963	9.646	3315145	3435505	1.110	1.111
32)	Chlordane...	7.726	8.099	213854	2507932	0.519	5.148 #
33)	Chlordane...	7.809	8.217	3910682	214545	9.330	0.518 #
34)	Chlordane...	8.379	8.882	10822	554202	0.084	4.098 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.809	8.431	3910682	5400	262.872	0.142 #
37)	Toxaphene...	8.100	8.792	109817	37481	3.334	0.795 #
38)	Toxaphene...	8.436	8.838	122633	142804	1.769	2.030
39)	Toxaphene...	8.638	8.882	396827	554202	5.332	4.652
40)	Toxaphene...	8.891	9.073	8692	306207	0.146	4.445 #
41)	Toxaphene...	8.963	9.425	3315145	41646	49.241	0.556 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:50  
Operator : MJB  
Sample : 0J15061-CALB  
Misc : A20I180, 9-42 1 ppb  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:40:56 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152019.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:06  
 Operator : MJB  
 Sample : 0J15061-CALC  
 Misc : A20I181, 9-42 2 ppb  
 ALS Vial : 16 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:01 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.653f	5.988	76897	55228	0.022	0.014 #
22) S DCBP (S)	9.870f	10.515	163145	58933	BelowCal	0.024
Target Compounds						
2) a-BHC	6.232	6.584	36736	55011	0.008	0.010 #
3) g-BHC	6.519	6.900	55408	36804	0.014	0.008 #
4) b-BHC	6.612	6.971	33171	67533	0.021	0.035 #
5) Heptachlor	6.920	7.273	51196	61676	0.013	0.013
6) d-BHC	6.766	7.218	101430	148814	0.091	0.104
7) Aldrin	7.165	7.538	31631	41785	0.008	0.010
8) Heptachlo...	7.624	7.971	3901157	87541	1.067	0.022 #
9) trans-Chl...	7.721	8.099	209465	4384687	0.057	1.102 #
10) cis-Chlor...	7.809	8.215	6858041	210510	1.893	0.054 #
11) Endosulfa...	7.928	8.267	81766	89349	0.024	0.025
12) 4,4'-DDE	7.878	8.323	198690	77077	0.063	0.070
13) Dieldrin	8.100	8.469	93835	4129327	0.025	1.095 #
14) Endrin	8.288	8.690	7468006	3988690	2.723	1.565 #
15) 4,4'-DDD	8.288	8.736	7468006	7629694	2.746	2.658
16) Endosulfa...	8.435	8.838	94701	118264	0.032	0.036
17) 4,4'-DDT	8.504	8.958	53928	84295	0.054	0.095 #
18) Endrin Al...	8.729	9.072	216411	211304	BelowCal	BelowCal
19) Endosulfa...	9.034	9.266	200784	206297	0.067	0.062
20) Methoxychlor	8.837	9.425	34766	43547	0.025	BelowCal #
21) Endrin Ke...	9.236	9.645	160941	5403191	0.044	1.383 #
23) Hexachlor...	3.474	3.703	7127380	8105552	2.064	2.032
24) Hexachlor...	6.069	6.453	6539006	7438773	1.955	1.869
25) Oxychlorane	7.554	7.903	6208420	6625326	1.922	1.882
26) 2,4'-DDE	7.624	8.099	3901157	4384687	1.834	1.807
27) trans-Non...	7.809	8.177	6858041	7161689	1.898	1.816
28) 2,4'-DDD	8.004	8.469	3682349	4129327	1.917	1.890
29) 2,4'-DDT	8.183	8.690	3742080	3988690	1.744	1.790

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152019.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:06  
 Operator : MJB  
 Sample : 0J15061-CALC  
 Misc : A20I181, 9-42 2 ppb  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:01 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

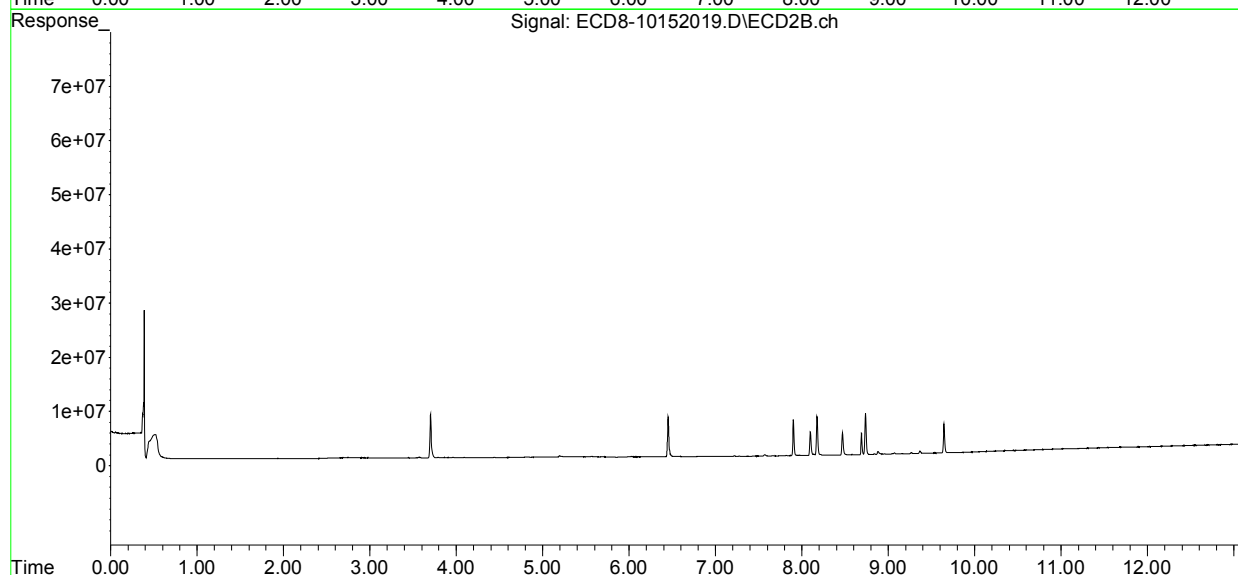
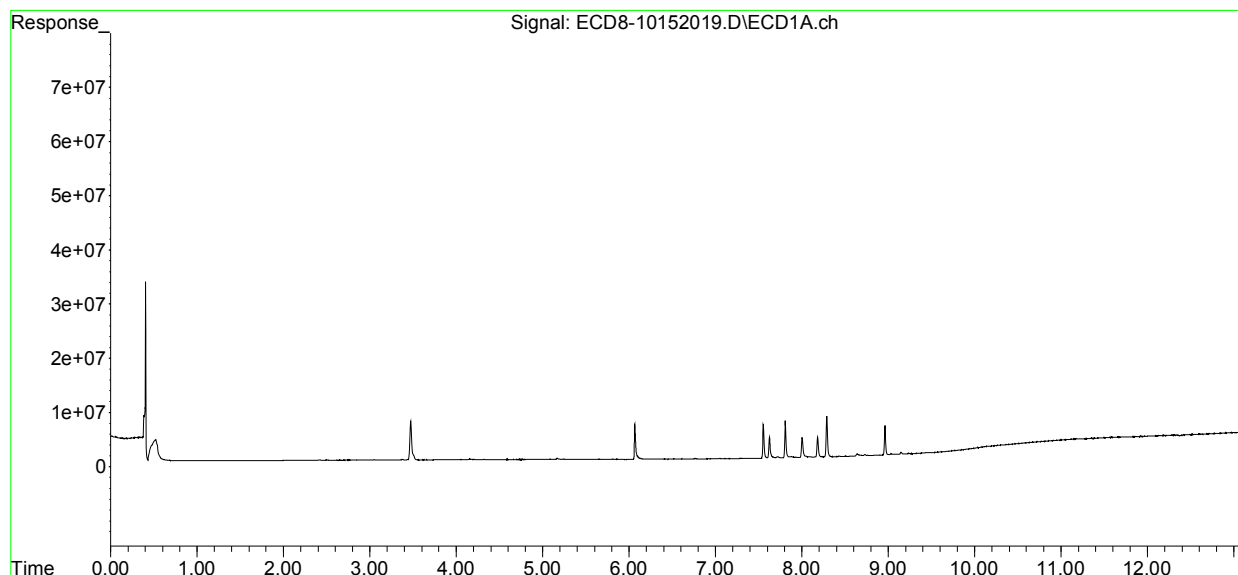
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.736	7468006	7629694	1.894	1.784
31)	Mirex	8.963	9.645	5444461	5403191	2.022	1.943
32)	Chlordane...	7.721	8.099	209465	4384687	0.508	9.001 #
33)	Chlordane...	7.809	8.215	6858041	210510	16.361	0.508 #
34)	Chlordane...	8.377	8.883	13321	504118	0.103	3.727 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.809	8.435	6858041	5693	460.990	0.150 #
37)	Toxaphene...	8.100	8.797	93835	44023	2.849	0.934 #
38)	Toxaphene...	8.414	8.838	8675	118264	0.125	1.681 #
39)	Toxaphene...	8.639	8.883	362816	504118	4.875	4.232
40)	Toxaphene...	8.905	9.072	36426	211304	0.614	3.067 #
41)	Toxaphene...	8.963	9.444	5444461	12398	80.868	0.166 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:06  
Operator : MJB  
Sample : 0J15061-CALC  
Misc : A20I181, 9-42 2 ppb  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:01 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152020.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:23  
 Operator : MJB  
 Sample : 0J15061-CALD  
 Misc : A20I182, 9-42 5 ppb  
 ALS Vial : 17 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:06 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.654f	5.990	161204	56742	0.046	0.014 #
22) S DCBP (S)	9.907	10.510	170802	55345	BelowCal	0.023
Target Compounds						
2) a-BHC	6.261f	6.583	11203	61900	0.002	0.012 #
3) g-BHC	6.517	6.899	54878	17586	0.014	0.004 #
4) b-BHC	6.610	6.971	21928	44052	0.014	0.023 #
5) Heptachlor	6.920	7.273	60051	70226	0.015	0.015
6) d-BHC	6.762	7.217	78565	115968	0.084	0.096
7) Aldrin	0.000	7.535	0	28019	N.D.	0.007 #
8) Heptachlo...	7.624	7.969	9576140	84549	2.619	0.021 #
9) trans-Chl...	7.723	8.098	166925	10816208	0.045	2.718 #
10) cis-Chlor...	7.808	8.177f	16788723	17453607	4.635	4.499
11) Endosulfa...	7.918	8.269	71327	69168	0.021	0.019
12) 4,4'-DDE	7.911f	8.325	78394	44620	0.025	0.061 #
13) Dieldrin	8.118f	8.470	42380	9938801	0.011	2.607 #
14) Endrin	8.254	8.690	32820	10115568	0.012	3.908 #
15) 4,4'-DDD	8.288	8.736	17869077	18893080	6.570	6.527
16) Endosulfa...	8.433	8.838	47811	70495	0.016	0.022 #
17) 4,4'-DDT	8.499	8.959	26245	60375	0.043	0.086 #
18) Endrin Al...	8.727	9.072	166972	144100	BelowCal	BelowCal
19) Endosulfa...	9.030	9.266	133927	101937	0.045	0.031 #
20) Methoxychlor	8.827	9.424	12277	23307	0.009	BelowCal #
21) Endrin Ke...	9.235	9.645	67133	12160597	0.018	3.113 #
23) Hexachlor...	3.474	3.702	16458450	18933435	5.041	4.977
24) Hexachlor...	6.070	6.453	15453104	17842730	4.620	4.483
25) Oxychlorane	7.554	7.903	15094980	15610146	4.674	4.435
26) 2,4'-DDE	7.624	8.098	9576140	10816208	4.502	4.457
27) trans-Non...	7.808	8.177	16788723	17453607	4.646	4.427
28) 2,4'-DDD	8.003	8.470	8751372	9938801	4.555	4.781
29) 2,4'-DDT	8.182	8.690	9587017	10115568	4.467	4.739

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152020.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:23  
 Operator : MJB  
 Sample : 0J15061-CALD  
 Misc : A20I182, 9-42 5 ppb  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:06 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.736	17869077	18893080	4.531	4.416
31)	Mirex	8.962	9.645	12051077	12160597	4.850	4.794
32)	Chlordane...	7.723	8.098	166925	10816208	0.405	22.203 #
33)	Chlordane...	7.808	8.177f	16788723	17453607	40.053	42.158
34)	Chlordane...	8.378	8.882	31843	679236	0.247	5.022 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.808	8.437	16788723	5142	1128.519	0.135 #
37)	Toxaphene...	8.118	8.815f	42380	50071	1.287	1.062
38)	Toxaphene...	8.433	8.815	47811	50071	0.690	0.712
39)	Toxaphene...	8.674	8.882	140585	679236	1.889	5.702 #
40)	Toxaphene...	8.892	9.072	9412	144100	0.159	2.092 #
41)	Toxaphene...	8.962	9.440	12051077	15320	178.998	0.205 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

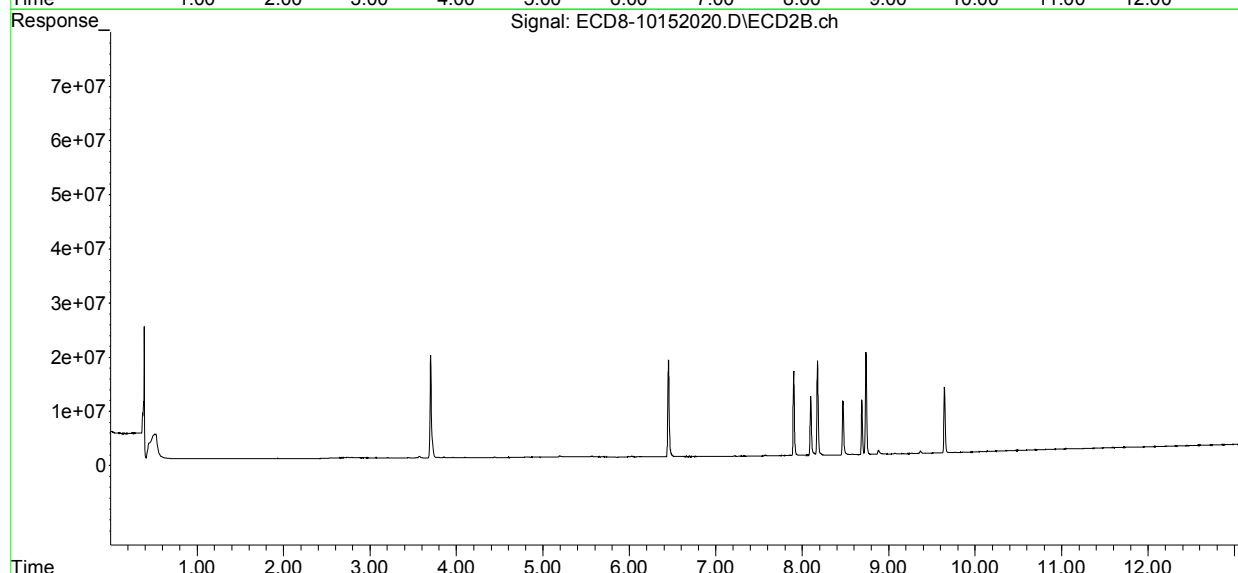
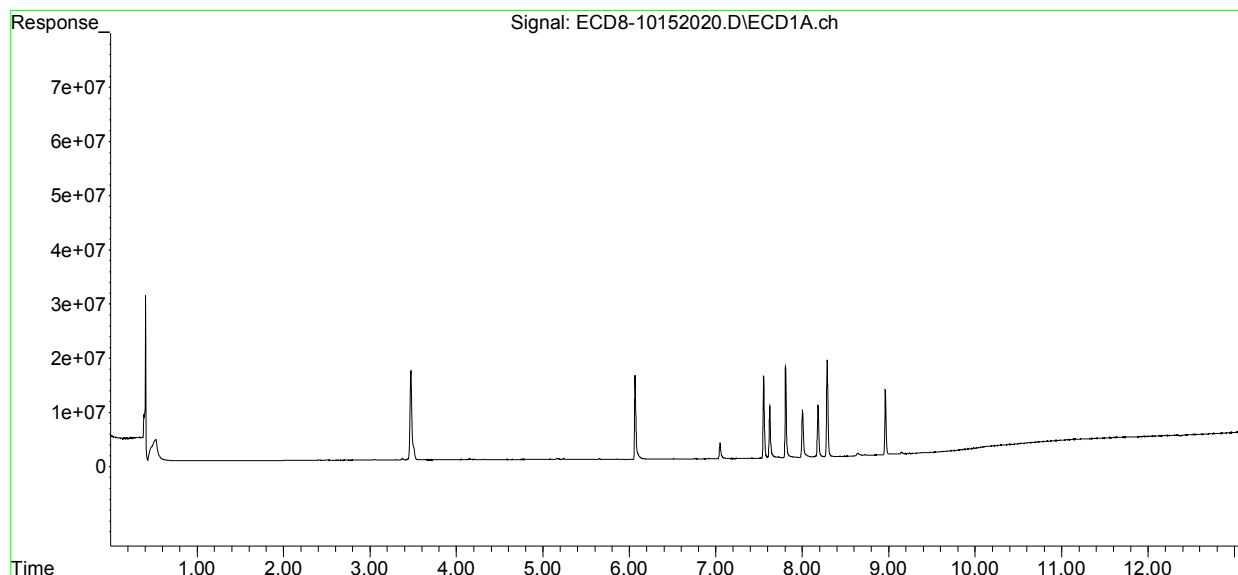
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152020.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:23  
Operator : MJB  
Sample : 0J15061-CALD  
Misc : A20I182, 9-42 5 ppb  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:06 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152021.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:39  
 Operator : MJB  
 Sample : 0J15061-CALE  
 Misc : A20I183, 9-42 10 ppb  
 ALS Vial : 18 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:11 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	5.653f	5.990	308301	47048	0.087	0.012 #
22) S	DCBP (S)	0.000	10.475f	0	49871	N.D.	0.021 #
Target Compounds							
2)	a-BHC	6.232	6.582	52846	75796	0.011	0.014 #
3)	g-BHC	6.516	6.900	71042	31767	0.018	0.007 #
4)	b-BHC	6.607	6.969	38280	57608	0.025	0.029
5)	Heptachlor	6.920	7.273	108402	126920	0.027	0.028
6)	d-BHC	6.762	7.218	102619	141068	0.091	0.102
7)	Aldrin	7.160	7.539	24229	31842	0.006	0.007
8)	Heptachlo...	7.624	7.968	20166332	114181	5.516	0.028 #
9)	trans-Chl...	7.723	8.098	276417	22142201	0.075	5.563 #
10)	cis-Chlor...	7.808	8.177f	34482563	35712472	9.520	9.205
11)	Endosulfa...	7.906	8.265	148934	115264	0.044	0.032 #
12)	4,4'-DDE	7.906f	8.324	148934	80700	0.047	0.071 #
13)	Dieldrin	8.075f	8.469	348958	20436379	0.093	5.322 #
14)	Endrin	8.287	8.690	37147659	20908468	13.546	7.978 #
15)	4,4'-DDD	8.287	8.735	37147659	39146339	13.659	13.336
16)	Endosulfa...	8.437	8.837	69817	101068	0.024	0.031 #
17)	4,4'-DDT	8.500	8.955	39678	66318	0.048	0.088 #
18)	Endrin Al...	8.728	9.072	170430	146134	BelowCal	BelowCal
19)	Endosulfa...	9.032	9.268	143522	100929	0.048	0.030 #
20)	Methoxychlor	8.839	9.425	17455	24874	0.013	BelowCal #
21)	Endrin Ke...	9.236	9.645	73575	24471276	0.020	6.265 #
23)	Hexachlor...	3.475	3.703	31387777	36173041	9.780	9.614
24)	Hexachlor...	6.069	6.453	31515539	36065499	9.421	9.062
25)	Oxychlorane	7.554	7.903	30846461	33196377	9.552	9.432
26)	2,4'-DDE	7.624	8.098	20166332	22142201	9.481	9.125
27)	trans-Non...	7.808	8.177	34482563	35712472	9.543	9.057
28)	2,4'-DDD	8.003	8.469	17648727	20436379	9.185	9.953
29)	2,4'-DDT	8.182	8.690	19702359	20908468	9.181	9.848

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152021.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:39  
 Operator : MJB  
 Sample : 0J15061-CALE  
 Misc : A20I183, 9-42 10 ppb  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:11 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

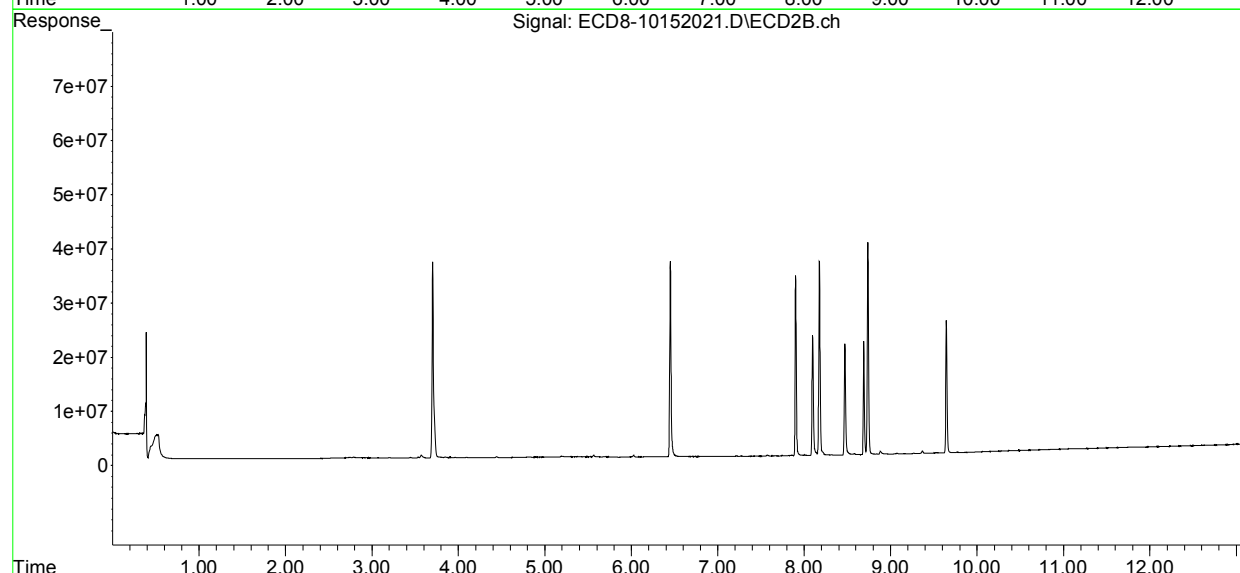
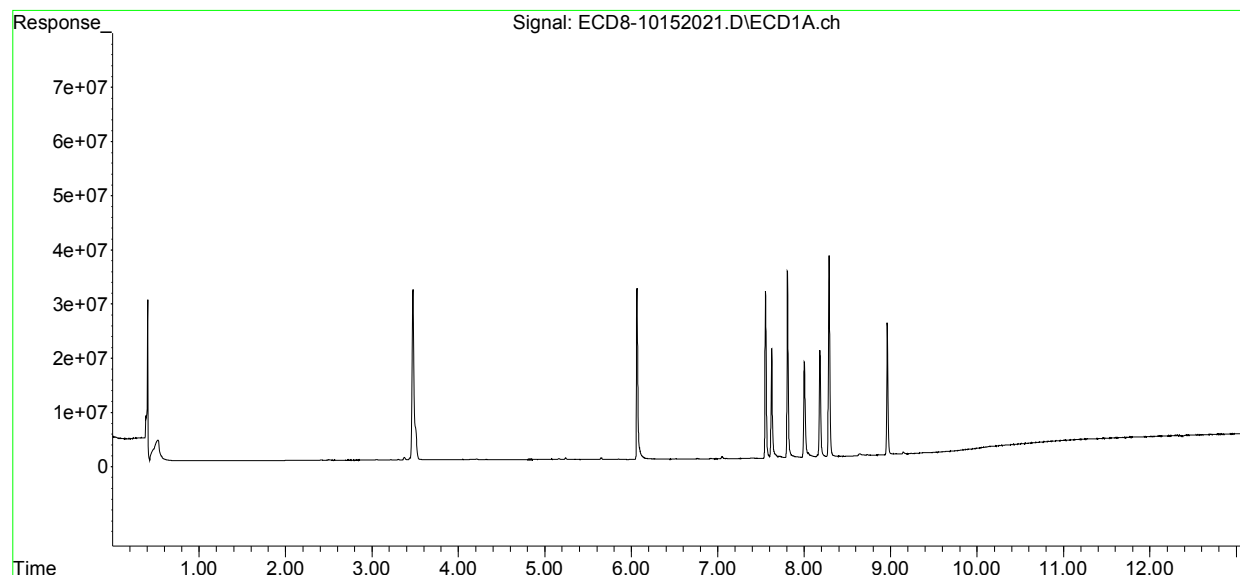
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.287	8.735	37147659	39146339	9.420	9.151
31)	Mirex	8.962	9.645	24373423	24471276	10.122	9.960
32)	Chlordane...	7.723	8.098	276417	22142201	0.671	45.453 #
33)	Chlordane...	7.808	8.177f	34482563	35712472	82.266	86.262
34)	Chlordane...	8.397	8.883	44340	499890	0.344	3.696 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.808	8.469f	34482563	20436379	2317.879	537.721 #
37)	Toxaphene...	8.075f	0.000	348958	0	10.594	N.D. #
38)	Toxaphene...	8.437	8.837	69817	101068	1.007	1.437 #
39)	Toxaphene...	8.642	8.883	378889	499890	5.091	4.196
40)	Toxaphene...	8.880	9.072	6469	146134	0.109	2.121 #
41)	Toxaphene...	8.962	9.445	24373423	18132	362.025	0.242 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152021.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:39  
Operator : MJB  
Sample : 0J15061-CALE  
Misc : A20I183, 9-42 10 ppb  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:11 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152022.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:56  
 Operator : MJB  
 Sample : 0J15061-CALF  
 Misc : A20I184, 9-42 25 ppb  
 ALS Vial : 19 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:16 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.654f	5.957f	737705	12435	0.209	0.003 #
22) S DCBP (S)	9.910	10.509	230997	61427	BelowCal	0.025
Target Compounds						
2) a-BHC	6.226	6.581	189049	168684	0.040	0.032
3) g-BHC	6.509	6.897	93727	48894	0.023	0.011 #
4) b-BHC	6.609	6.969	62236	87490	0.040	0.045
5) Heptachlor	6.919	7.273	261345	276988	0.064	0.061
6) d-BHC	6.760	7.215	94746	131126	0.089	0.100
7) Aldrin	7.165	7.532	13711	25429	0.003	0.006 #
8) Heptachlo...	7.622	8.008f	52220273	313025	14.283	0.078 #
9) trans-Chl...	7.722	8.097	433970	59909816	0.118	15.052 #
10) cis-Chlor...	7.807	0.000	88005937	0	24.296	N.D. #
11) Endosulfa...	7.915	8.265	260962	166304	0.077	0.046 #
12) 4,4'-DDE	7.907f	8.326	262010	159299	0.083	0.095
13) Dieldrin	8.075f	8.468	757137	53380696	0.202	13.705 #
14) Endrin	8.286	8.690	93575402	58013258	34.122	21.446 #
15) 4,4'-DDD	8.286	8.735	93575402	103.3E6	34.407	33.785
16) Endosulfa...	8.436	8.836	97417	128880	0.033	0.040
17) 4,4'-DDT	8.502	8.948	62478	104018	0.057	0.102 #
18) Endrin Al...	8.726	9.076	189061	176780	BelowCal	BelowCal
19) Endosulfa...	9.029	9.265	188411	96055	0.063	0.029 #
20) Methoxychlor	8.832	9.419	15370	20156	0.011	BelowCal #
21) Endrin Ke...	9.235	9.645	71724	60834363	0.019	15.574 #
23) Hexachlor...	3.475	3.703	78802280	94309654	24.628	24.815
24) Hexachlor...	6.069	6.453	79779430	94109412	23.850	23.646
25) Oxychlorane	7.553	7.902	77425998	84676703	23.975	24.058
26) 2,4'-DDE	7.622	8.097	52220273	59909816	24.552	24.688
27) trans-Non...	7.807	8.177	88005937	95054160	24.356	24.108
28) 2,4'-DDD	8.001	8.468	46590623	53380696	24.249	25.777
29) 2,4'-DDT	8.181	8.690	52493263	58013258	24.461	26.651

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152022.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:56  
 Operator : MJB  
 Sample : 0J15061-CALF  
 Misc : A20I184, 9-42 25 ppb  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:16 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

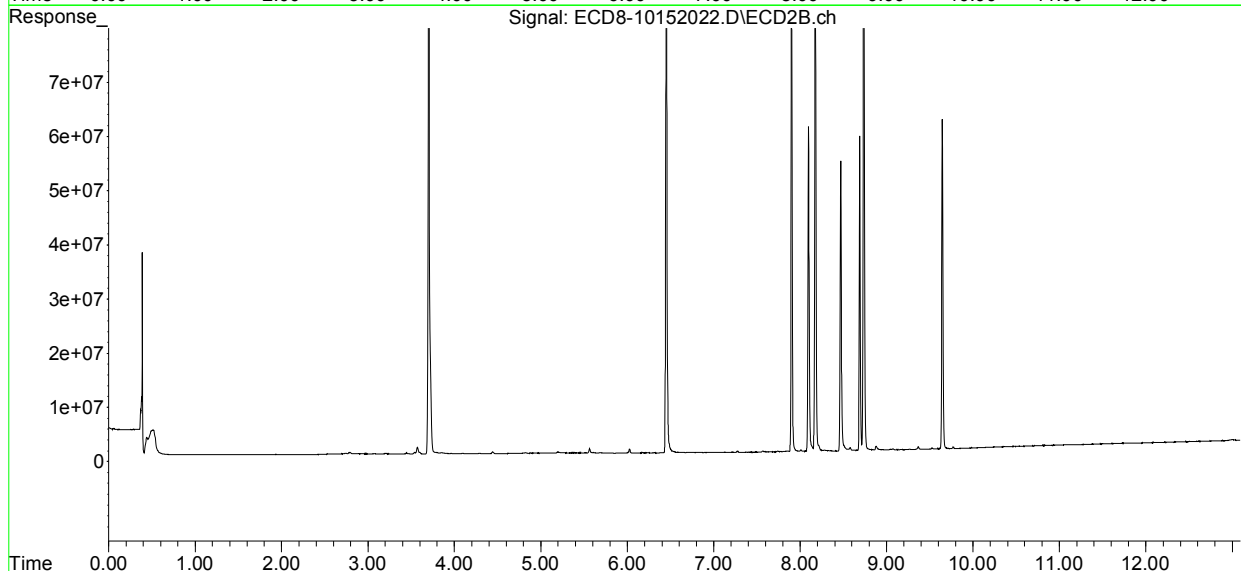
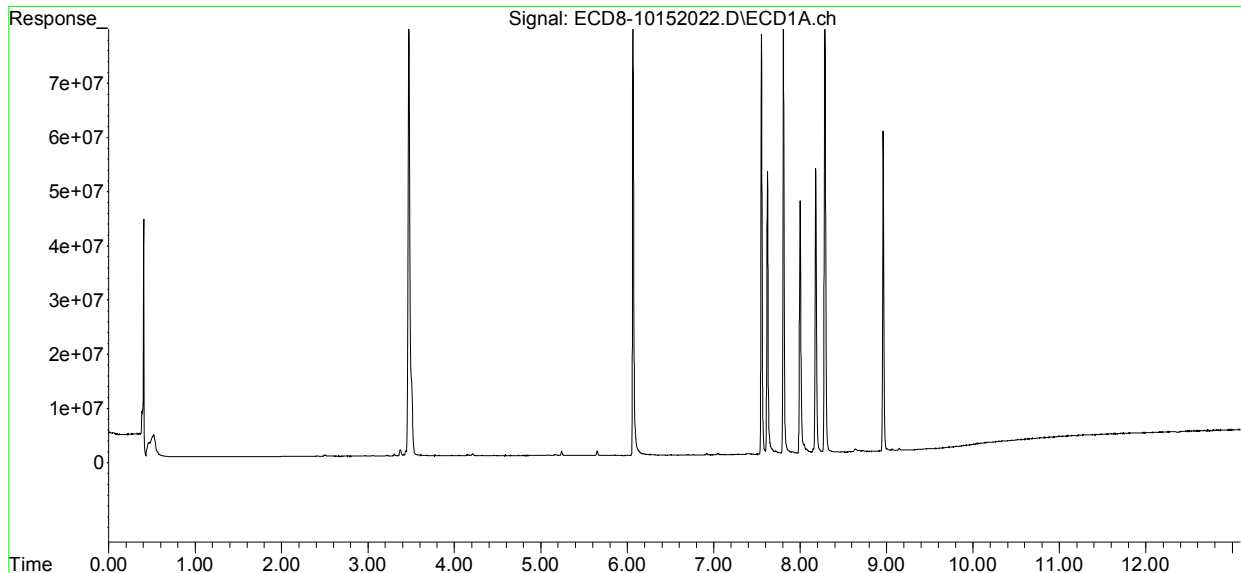
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	93575402	103.3E6	23.728	24.142
31)	Mirex	8.962	9.645	59074282	60834363	24.948	25.004
32)	Chlordane...	7.722	8.097	433970	59909816	1.053	122.983 #
33)	Chlordane...	7.807	8.177f	88005937	95054160	209.958	229.598
34)	Chlordane...	0.000	8.879	0	686959	N.D.	5.079 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.807	8.419f	88005937	16175	5915.661	0.426 #
37)	Toxaphene...	8.075f	0.000	757137	0	22.986	N.D. #
38)	Toxaphene...	8.436	8.836	97417	128880	1.405	1.832 #
39)	Toxaphene...	8.637	8.879	557909	686959	7.497	5.766
40)	Toxaphene...	8.886	9.076	7924	176780	0.133	2.566 #
41)	Toxaphene...	8.962	9.447	59074282	18915	877.447	0.253 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152022.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:56  
Operator : MJB  
Sample : 0J15061-CALF  
Misc : A20I184, 9-42 25 ppb  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:16 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152023.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:12  
 Operator : MJB  
 Sample : 0J15061-CALG  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 20 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:21 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.653f	5.989	1358241	48984	0.384	0.012 #
22) S DCBP (S)	9.883	10.512	161998	38221	BelowCal	0.016
Target Compounds						
2) a-BHC	6.228	6.625f	308160	92113	0.065	0.017 #
3) g-BHC	6.520	6.899	80112	27503	0.020	0.006 #
4) b-BHC	6.610	6.971	61477	70350	0.039	0.036
5) Heptachlor	6.920	7.273	427192	459407	0.105	0.100
6) d-BHC	6.762	7.218	99669	123514	0.091	0.098
7) Aldrin	7.163	7.530	23107	37776	0.006	0.009 #
8) Heptachlo...	7.621	8.008f	103.4E6	530245	28.273	0.132 #
9) trans-Chl...	7.722	8.096	715480	117.8E6	0.194	29.596 #
10) cis-Chlor...	7.807	0.000	169.1E6	0	46.675	N.D. #
11) Endosulfa...	7.916	8.268	528687	319301	0.155	0.089 #
12) 4,4'-DDE	0.000	8.325	0	358718	N.D.	0.154 #
13) Dieldrin	8.074f	8.467	1337325	107.8E6	0.356	27.128 #
14) Endrin	8.286	8.689	183.9E6	120.3E6	67.075	42.512 #
15) 4,4'-DDD	8.286	8.735	183.9E6	208.4E6	67.634	64.352
16) Endosulfa...	8.437	0.000	194510	0	0.066	N.D. #
17) 4,4'-DDT	8.498	8.947	139525	180426	0.088	0.130 #
18) Endrin Al...	8.725	9.076	237291	243893	BelowCal	BelowCal
19) Endosulfa...	9.064f	9.265	596466	87563	0.200	0.026 #
20) Methoxychlor	8.834	9.423	12455	30984	0.009	BelowCal #
21) Endrin Ke...	9.234	9.644	67044	123.5E6	0.018	31.609 #
23) Hexachlor...	3.474	3.702	168.1E6	209.9E6	51.814	53.291
24) Hexachlor...	6.069	6.453	159.6E6	193.4E6	47.699	48.604
25) Oxychlorane	7.553	7.902	149.6E6	170.3E6	46.319	48.387
26) 2,4'-DDE	7.621	8.096	103.4E6	117.8E6	48.599	48.544
27) trans-Non...	7.807	8.176	169.1E6	188.6E6	46.791	47.840
28) 2,4'-DDD	8.000	8.467	89007702	107.8E6	46.325	50.694
29) 2,4'-DDT	8.180	8.689	108.2E6	120.3E6	50.404	52.659



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152023.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:12  
 Operator : MJB  
 Sample : 0J15061-CALG  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:21 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

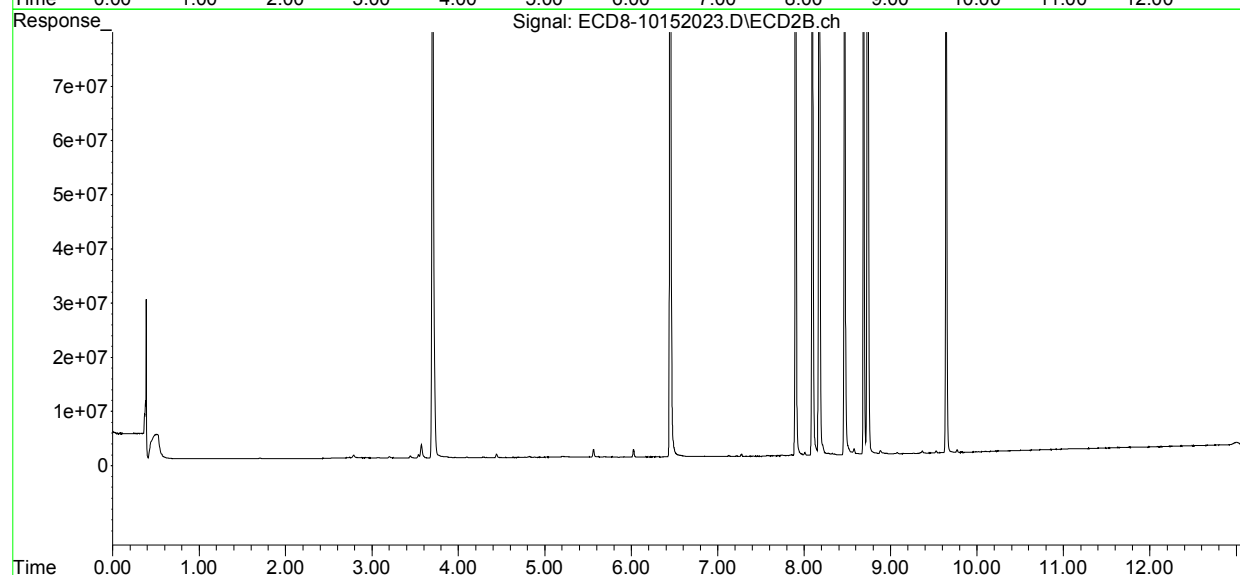
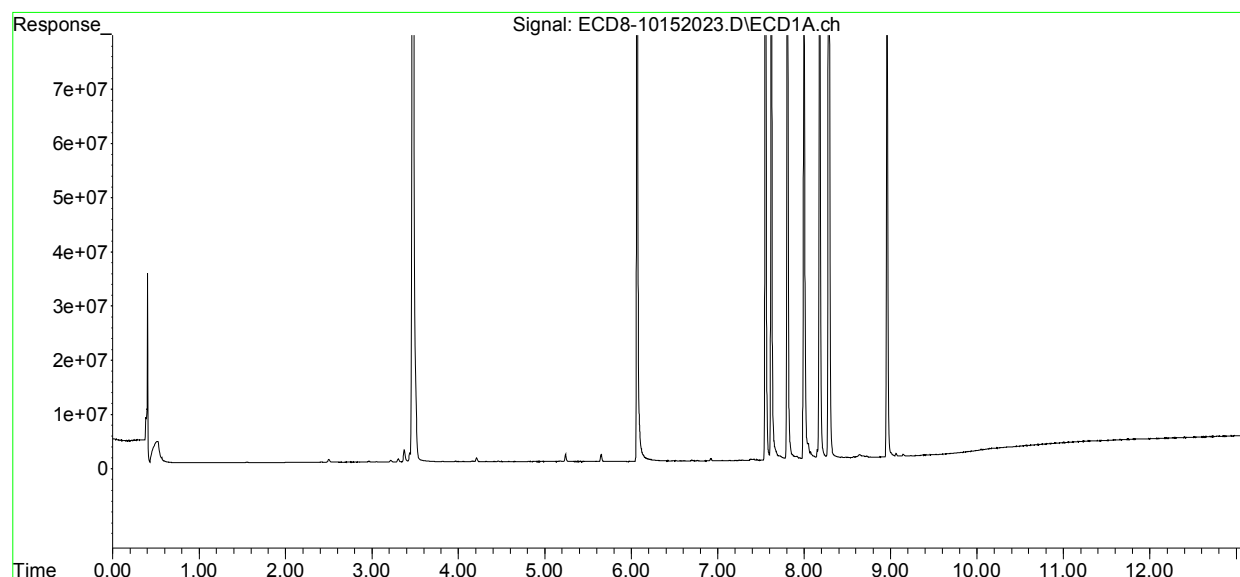
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	183.9E6	208.4E6	46.643	48.717
31)	Mirex	8.960	9.644	113.0E6	123.5E6	47.943	50.216
32)	Chlordane...	7.722	8.096	715480	117.8E6	1.737	241.815 #
33)	Chlordane...	7.807	8.176f	169.1E6	188.6E6	403.352	455.621
34)	Chlordane...	0.000	8.883	0	614166	N.D.	4.541 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.807	8.467f	169.1E6	107.8E6	11364.625	2835.963 #
37)	Toxaphene...	8.074f	0.000	1337325	0	40.600	N.D. #
38)	Toxaphene...	8.437	0.000	194510	0	2.806	N.D. #
39)	Toxaphene...	8.638	8.883	574074	614166	7.714	5.155 #
40)	Toxaphene...	8.887	9.076	5873	243893	0.099	3.540 #
41)	Toxaphene...	8.960	9.445	113.0E6	29849	1679.020	0.399 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 23:12  
Operator : MJB  
Sample : 0J15061-CALG  
Misc : A20I185, 9-42 50 ppb  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:21 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152024.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:29  
 Operator : MJB  
 Sample : 0J15061-CALH  
 Misc : A20I186, 9-42 100 ppb  
 ALS Vial : 21 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:26 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	5.653f	5.998	2500528	55352	0.707	0.014 #
22) S DCBP (S)	9.916	10.506	195687	39403	BelowCal	0.016
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D.	N.D.
3) g-BHC	6.519	6.900	108360	39618	0.027	0.009 #
4) b-BHC	6.612	6.971	92482	106341	0.059	0.054
5) Heptachlor	6.920	7.274	773927	855952	0.191	0.187
6) d-BHC	6.762	7.218	130335	163231	0.101	0.108
7) Aldrin	7.162	7.533	26455	52854	0.007	0.012 #
8) Heptachlo...	7.620	8.008f	210.1E6	987495	57.476	0.246 #
9) trans-Chl...	7.722	8.096	1155162	256.1E6	0.314	64.349 #
10) cis-Chlor...	7.807	8.210	343.2E6	3247970	94.747	0.837 #
11) Endosulfa...	7.917	8.281	1051997	718288	0.309	0.200 #
12) 4,4'-DDE	0.000	8.326	0	754516	N.D.	0.270 #
13) Dieldrin	8.108	8.467	851957	222.6E6	0.227	53.963 #
14) Endrin	8.285	8.689	378.2E6	257.3E6	137.926	83.744 #
15) 4,4'-DDD	8.285	8.735	378.2E6	435.1E6	139.076	121.592
16) Endosulfa...	8.435	0.000	352102	0	0.120	N.D. #
17) 4,4'-DDT	8.499	8.946	294755	306089	0.150	0.177
18) Endrin Al...	8.722	9.077	386673	396286	BelowCal	BelowCal
19) Endosulfa...	9.004f	9.265	1467429	88445	0.491	0.027 #
20) Methoxychlor	8.835	9.425	23930	50513	0.017	BelowCal #
21) Endrin Ke...	9.234	9.645	75056	254.5E6	0.020	65.160 #
23) Hexachlor...	3.475	3.703	320.7E6	403.4E6	96.154	96.801
24) Hexachlor...	6.069	6.453	322.5E6	403.2E6	96.424	101.308
25) Oxychlorane	7.553	7.902	304.8E6	351.7E6	94.376	99.919
26) 2,4'-DDE	7.620	8.096	210.1E6	256.1E6	98.797	105.547
27) trans-Non...	7.807	8.177	343.2E6	405.2E6	94.982	102.758
28) 2,4'-DDD	7.999	8.467	185.8E6	222.6E6	96.716	99.241
29) 2,4'-DDT	8.180	8.689	220.7E6	257.3E6	102.848	102.868

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152024.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:29  
 Operator : MJB  
 Sample : 0J15061-CALH  
 Misc : A20I186, 9-42 100 ppb  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:26 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

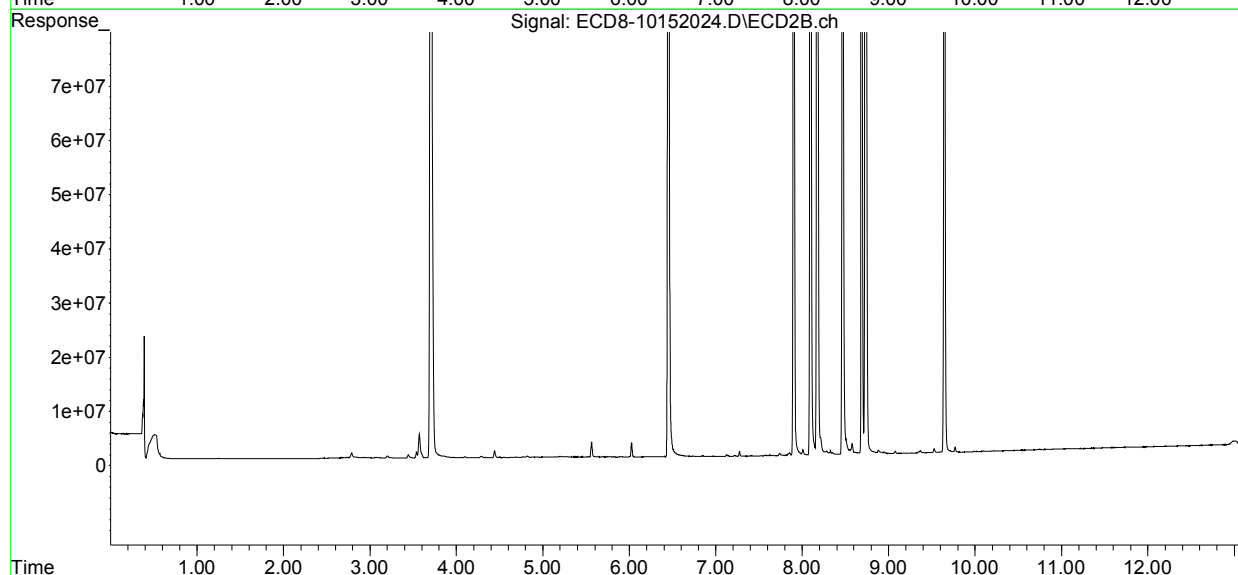
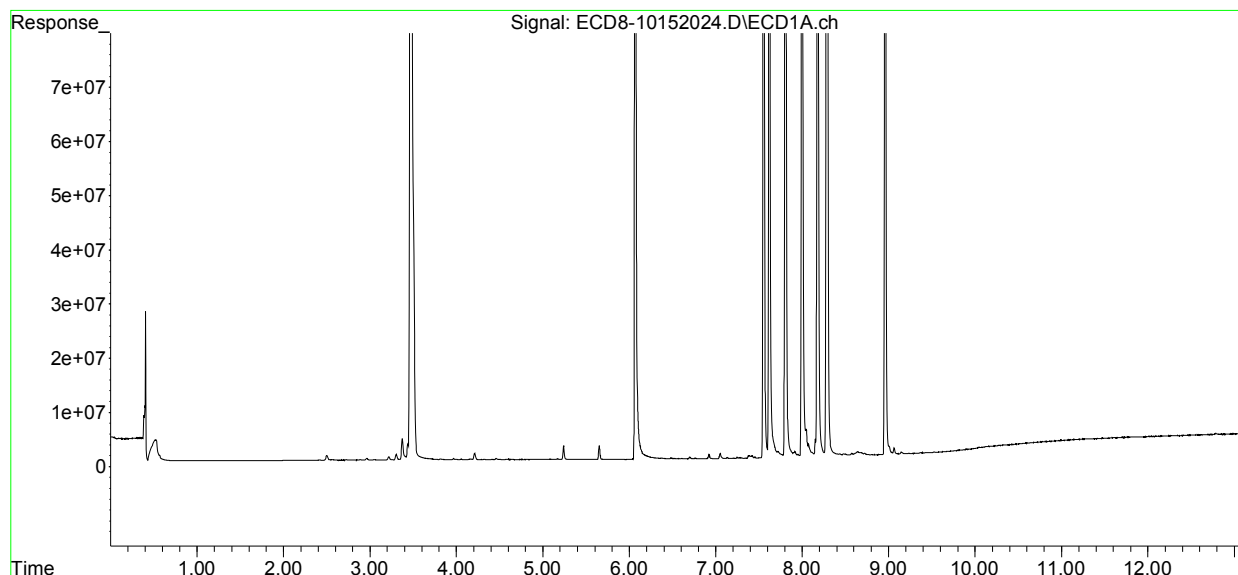
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.735	378.2E6	435.1E6	95.913	101.715
31)	Mirex	8.961	9.645	228.7E6	254.5E6	96.979	100.420
32)	Chlordane...	7.722	8.096	1155162	256.1E6	2.804	525.767 #
33)	Chlordane...	7.807	8.210	343.2E6	3247970	818.770	7.845 #
34)	Chlordane...	0.000	8.884	0	628302	N.D.	4.645 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.807	8.467f	343.2E6	222.6E6	23069.211	5858.107 #
37)	Toxaphene...	8.108	0.000	851957	0	25.865	N.D. #
38)	Toxaphene...	8.435	0.000	352102	0	5.079	N.D. #
39)	Toxaphene...	8.640	8.884	716891	628302	9.633	5.274 #
40)	Toxaphene...	0.000	9.077	0	396286	N.D.	5.752 #
41)	Toxaphene...	8.961	9.430	228.7E6	51415	3397.033	0.687 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 23:29  
Operator : MJB  
Sample : 0J15061-CALH  
Misc : A20I186, 9-42 100 ppb  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:26 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152025.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:46  
 Operator : MJB  
 Sample : 0J15061-CALI  
 Misc : A20I179, 9-42 200 ppb  
 ALS Vial : 22 Sample Multiplier: 1

MJB 10/21/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:31 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.653f	5.989	4852405	83170	1.372	0.021 #
22) S DCBP (S)	9.905	10.505	267494	99106	BelowCal	0.041
Target Compounds						
2) a-BHC	6.231	6.582	801838	712587	0.170	0.133
3) g-BHC	6.520	6.899	274186	206430	0.068	0.044 #
4) b-BHC	6.607	6.969	254182	301686	0.163	0.154
5) Heptachlor	6.919	7.272	1576391	1729799	0.388	0.378
6) d-BHC	6.758	7.215	383149	489755	0.183	0.189
7) Aldrin	7.160	7.534	154336	174432	0.039	0.041
8) Heptachlo...	7.619	7.967	453.7E6	893169	124.101	0.222 #
9) trans-Chl...	7.721	8.095	1995927	567.8E6	0.542	142.647 #
10) cis-Chlor...	7.806	8.210	742.7E6	4736942	205.032	1.221 #
11) Endosulfa...	7.917	8.280	2375996	1063454	0.699	0.296 #
12) 4,4'-DDE	0.000	8.325	0	1845358	N.D.	0.592 #
13) Dieldrin	8.073f	8.466	4108469	497.7E6	1.094	111.771 #
14) Endrin	8.285	8.688	802.3E6	567.1E6	292.565	160.925 #
15) 4,4'-DDD	8.285	8.734	802.3E6	961.3E6	295.004	228.230
16) Endosulfa...	8.435	8.835	712668	683162	0.242	0.210
17) 4,4'-DDT	8.498	8.953	731595	633853	0.325	0.298
18) Endrin Al...	8.723	9.075	840830	908964	BelowCal	0.039
19) Endosulfa...	9.003f	9.265	2301163	309513	0.770	0.093 #
20) Methoxychlor	8.833	9.424	129275	183552	0.094	0.080
21) Endrin Ke...	9.234	9.644	303060	538.2E6	0.082	137.790 #
23) Hexachlor...	3.477	3.704	721.1E6	947.4E6	202.297	200.581
24) Hexachlor...	6.070	6.454	676.2E6	870.6E6	202.145	218.750
25) Oxychlorane	7.552	7.901	646.9E6	749.5E6	200.301	212.937
26) 2,4'-DDE	7.619	8.095	453.7E6	567.8E6	213.321	233.972
27) trans-Non...	7.806	8.176	742.7E6	873.1E6	205.541	221.426
28) 2,4'-DDD	7.997	8.466	398.4E6	497.7E6	207.369	199.759
29) 2,4'-DDT	8.179	8.688	475.5E6	567.1E6	221.569	195.348

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152025.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:46  
 Operator : MJB  
 Sample : 0J15061-CALI  
 Misc : A20I179, 9-42 200 ppb  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 21 14:41:31 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

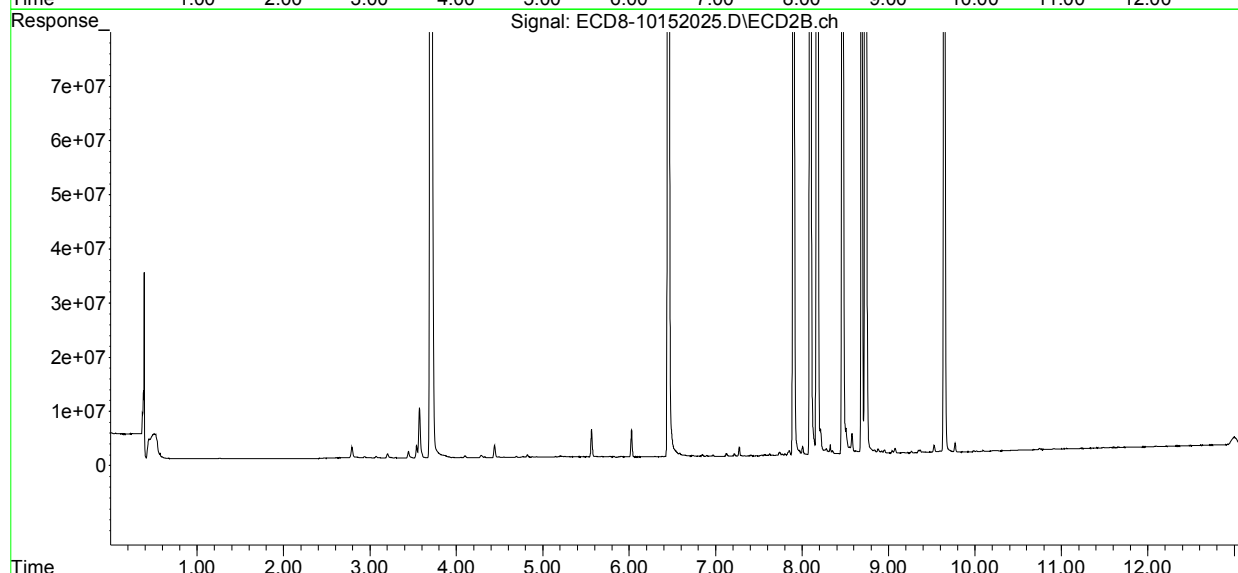
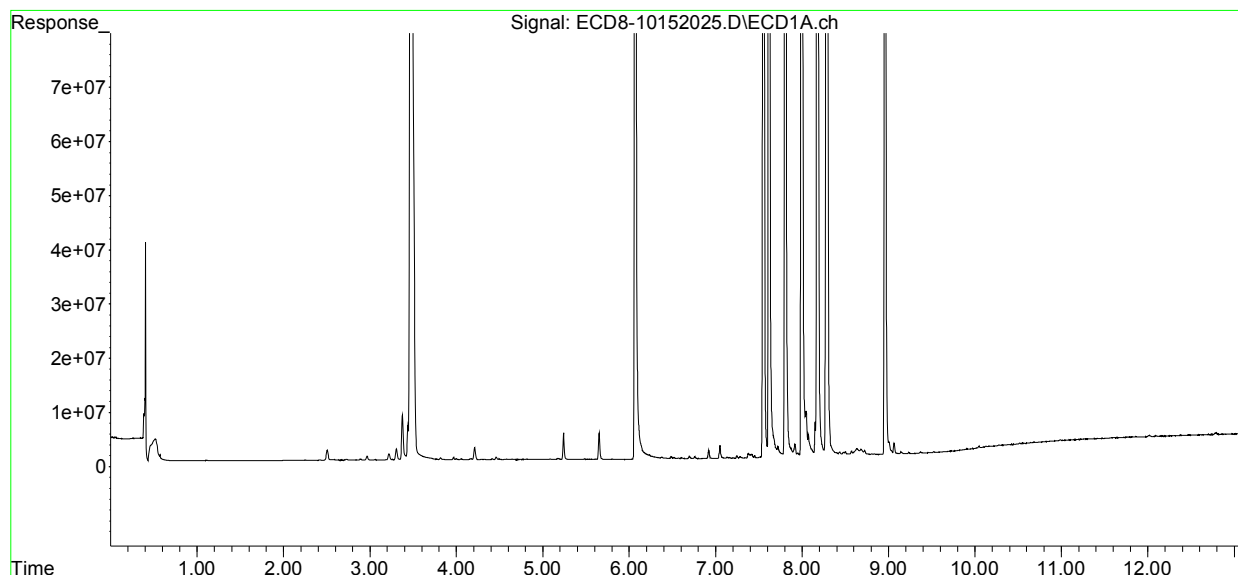
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.734	802.3E6	961.3E6	203.447	224.714
31)	Mirex	8.960	9.644	486.2E6	538.2E6	204.967	199.611
32)	Chlordane...	7.721	8.095	1995927	567.8E6	4.845	1165.500 #
33)	Chlordane...	7.806	8.210	742.7E6	4736942	1771.821	11.442 #
34)	Chlordane...	0.000	8.879	0	831463	N.D.	6.148 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.806	8.466f	742.7E6	497.7E6	49921.875	13096.089 #
37)	Toxaphene...	8.073f	0.000	4108469	0	124.731	N.D. #
38)	Toxaphene...	8.435	8.835	712668	683162	10.280	9.713
39)	Toxaphene...	8.679f	8.879	1078460	831463	14.491	6.979 #
40)	Toxaphene...	8.868f	9.075	18678	908964	0.315	13.194 #
41)	Toxaphene...	8.960	9.447	486.2E6	122200	7222.109	1.632 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152025.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 23:46  
Operator : MJB  
Sample : 0J15061-CALI  
Misc : A20I179, 9-42 200 ppb  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 21 14:41:31 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152028.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:35  
 Operator : MJB  
 Sample : 0J15061-CALJ  
 Misc : A20J277, CHLOR 10 ppb  
 ALS Vial : 24 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:34:08 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	6.006	0	221308	N.D.	0.055 #
22) S DCBP (S)	9.905	10.509	173374	69161	BelowCal	0.029
Target Compounds						
2) a-BHC	6.212f	6.587	17226	24795	0.004	0.005 #
3) g-BHC	6.519	6.903	39463	47365	0.010	0.010
4) b-BHC	6.611	6.973	76764	39883	0.049	0.020 #
5) Heptachlor	6.919	7.273	1986647	2146157	0.489	0.469
6) d-BHC	6.764	7.217	125725	88056	0.099	0.089
7) Aldrin	7.176	7.534	15808	20583	0.004	0.005
8) Heptachlo...	7.629	7.973	338221	67850	0.093	0.017 #
9) trans-Chl...	7.726	8.111	4101623	4425582	1.114	1.112
10) cis-Chlor...	7.820	8.217	4385167	4119232	1.211	1.062
11) Endosulfa...	7.940	8.281	123062	81765	0.036	0.023 #
12) 4,4'-DDE	7.884	8.318	200071	133912	0.063	0.087 #
13) Dieldrin	8.114	8.468	130374	397390	0.035	0.120 #
14) Endrin	8.259	8.689	71386	125823	0.026	0.075 #
15) 4,4'-DDD	8.287	8.736	833739	986216	0.307	0.347
16) Endosulfa...	8.430	8.826	79988	111565	0.027	0.034 #
17) 4,4'-DDT	8.502	8.948	97970	126064	0.071	0.110 #
18) Endrin Al...	8.728	9.072	135716	100247	BelowCal	BelowCal
19) Endosulfa...	9.032	9.265	224182	176094	0.075	0.053 #
20) Methoxychlor	8.838	9.424	35161	54726	0.026	BelowCal #
21) Endrin Ke...	9.234	9.658	164530	238435	0.044	0.061 #
23) Hexachlor...	0.000	3.717	0	51548	N.D.	BelowCal
24) Hexachlor...	6.068	6.452	54295	57452	0.016	0.014
25) Oxychlorane	7.551	7.904	33845	46935	0.010	0.013 #
26) 2,4'-DDE	7.629	8.111	338221	4425582	0.157	1.799 #
27) trans-Non...	7.820	8.177	4385167	3611207	1.203	0.903
28) 2,4'-DDD	8.005	8.468	127856	397390	0.066	0.174 #
29) 2,4'-DDT	8.200	8.689	6670	125823	0.003	BelowCal #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152028.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:35  
 Operator : MJB  
 Sample : 0J15061-CALJ  
 Misc : A20J277, CHLOR 10 ppb  
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:34:08 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

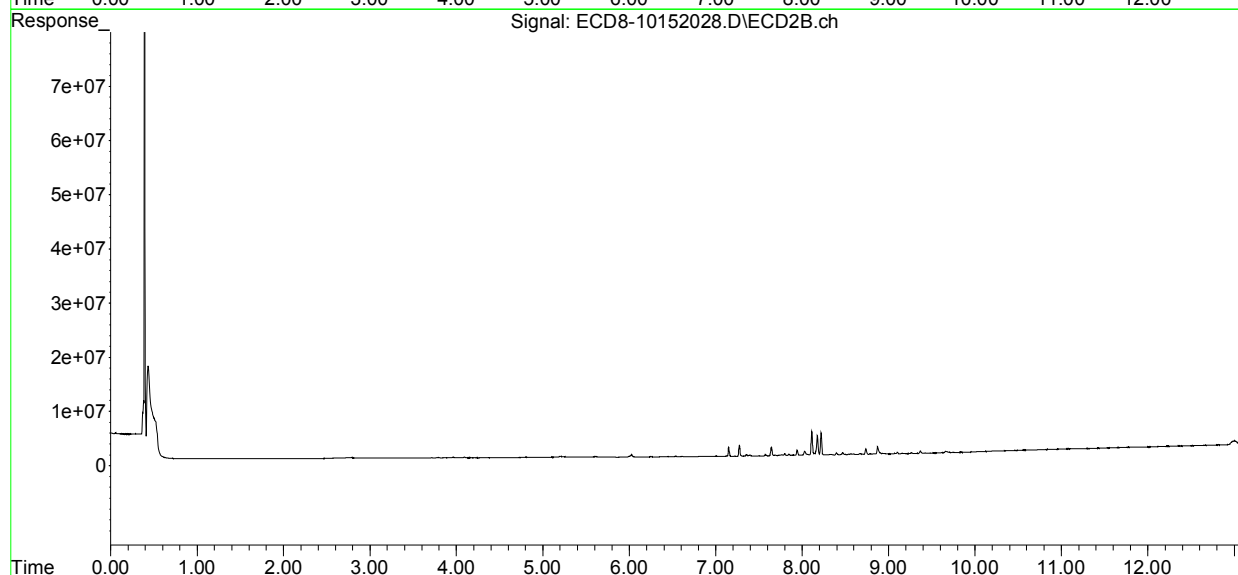
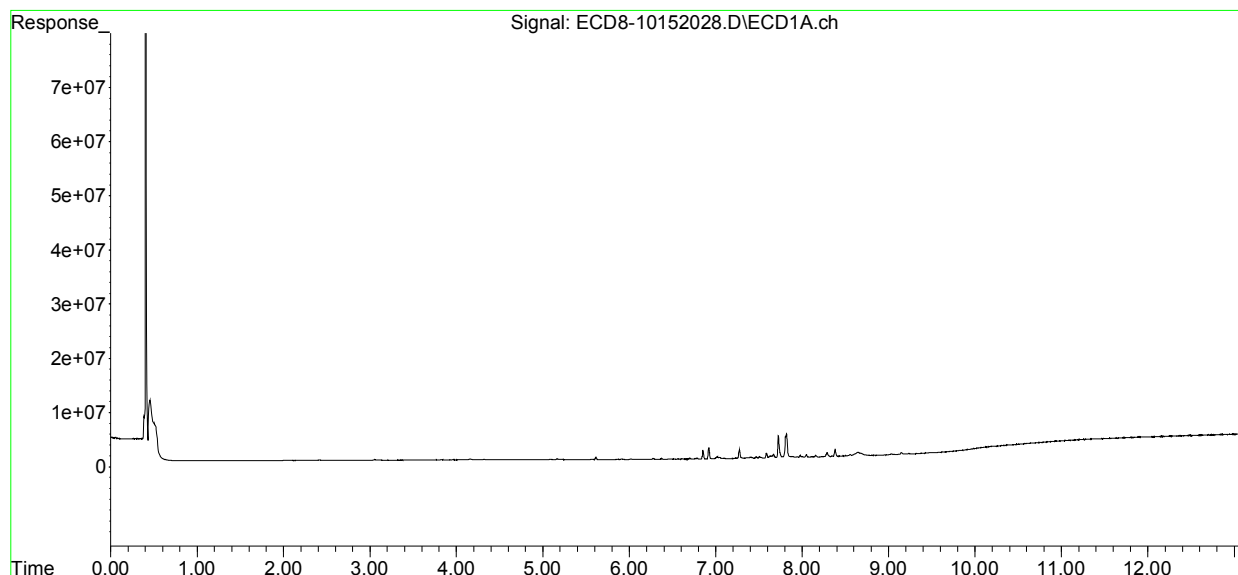
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.287	8.736	833739	986216	0.209	0.227
31)	Mirex	8.965	9.658	23549	238435	BelowCal	BelowCal
32)	Chlordane...	7.726	8.111	4101623	4425582	9.957	9.085
33)	Chlordane...	7.820	8.217	4385167	4119232	10.462	9.950
34)	Chlordane...	8.380	8.873	1337616	1424459	10.373	10.532
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.820	8.468f	4385167	397390	294.766	10.456 #
37)	Toxaphene...	8.114	8.789	130374	131453	3.958	2.788 #
38)	Toxaphene...	8.430	8.826	79988	111565	1.154	1.586 #
39)	Toxaphene...	8.644	8.873	705741	1424459	9.483	11.957 #
40)	Toxaphene...	8.868f	9.072	17081	100247	0.288	1.455 #
41)	Toxaphene...	8.965	9.448	23549	28584	0.350	0.382
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152028.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 00:35  
Operator : MJB  
Sample : 0J15061-CALJ  
Misc : A20J277, CHLOR 10 ppb  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:34:08 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152029.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:52  
 Operator : MJB  
 Sample : 0J15061-CALK  
 Misc : A20F057, CHLOR 50 ppb  
 ALS Vial : 25 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:34:52 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	0.000	5.989	0	33174	N.D.	0.008 #
22) S	DCBP (S)	0.000	10.529f	0	65966	N.D.	0.027 #
Target Compounds							
2)	a-BHC	6.254f	6.615f	23129	580064	0.005	0.108 #
3)	g-BHC	6.524	6.912	33804	252216	0.008	0.054 #
4)	b-BHC	6.611	6.970	274416	45275	0.176	0.023 #
5)	Heptachlor	6.919	7.273	8991697	9384897	2.216	2.050
6)	d-BHC	6.764	7.214	344304	120082	0.170	0.097 #
7)	Aldrin	7.175	7.548	112488	123992	0.029	0.029
8)	Heptachlo...	7.635	7.989	1426113	548176	0.390	0.137 #
9)	trans-Chl...	7.725	8.111	19538919	22190571	5.306	5.575
10)	cis-Chlor...	7.820	8.217	20854744	18468542	5.757	4.760
11)	Endosulfa...	7.940	8.281	514148	311801	0.151	0.087 #
12)	4,4'-DDE	7.885	8.317	669544	549016	0.212	0.210
13)	Dieldrin	8.112	8.468	640327	1811484	0.170	0.490 #
14)	Endrin	8.286	8.688	3694204	504303	1.347	0.222 #
15)	4,4'-DDD	8.286	8.736	3694204	3883327	1.358	1.357
16)	Endosulfa...	8.426	8.826	413884	483861	0.141	0.149
17)	4,4'-DDT	8.471f	8.947	123263	375579	0.082	0.203 #
18)	Endrin Al...	8.741	9.072	103937	183457	BelowCal	BelowCal
19)	Endosulfa...	9.029	9.266	334776	62674	0.112	0.019 #
20)	Methoxychlor	8.839	9.425	82567	21885	0.060	BelowCal #
21)	Endrin Ke...	9.236	9.658	69829	302682	0.019	0.077 #
23)	Hexachlor...	0.000	3.715	0	36748	N.D.	BelowCal
24)	Hexachlor...	6.066	6.451	24859	29266	0.007	0.007
25)	Oxychlorane	7.584f	7.885	3823638	260960	1.174	0.073 #
26)	2,4'-DDE	7.635	8.083	1426113	565479	0.662	0.230 #
27)	trans-Non...	7.820	8.176	20854744	16292621	5.721	4.074 #
28)	2,4'-DDD	8.003	8.468	547005	1811484	0.282	0.792 #
29)	2,4'-DDT	8.158f	8.688	1450498	504303	0.667	0.104 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152029.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:52  
 Operator : MJB  
 Sample : 0J15061-CALK  
 Misc : A20F057, CHLOR 50 ppb  
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:34:52 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

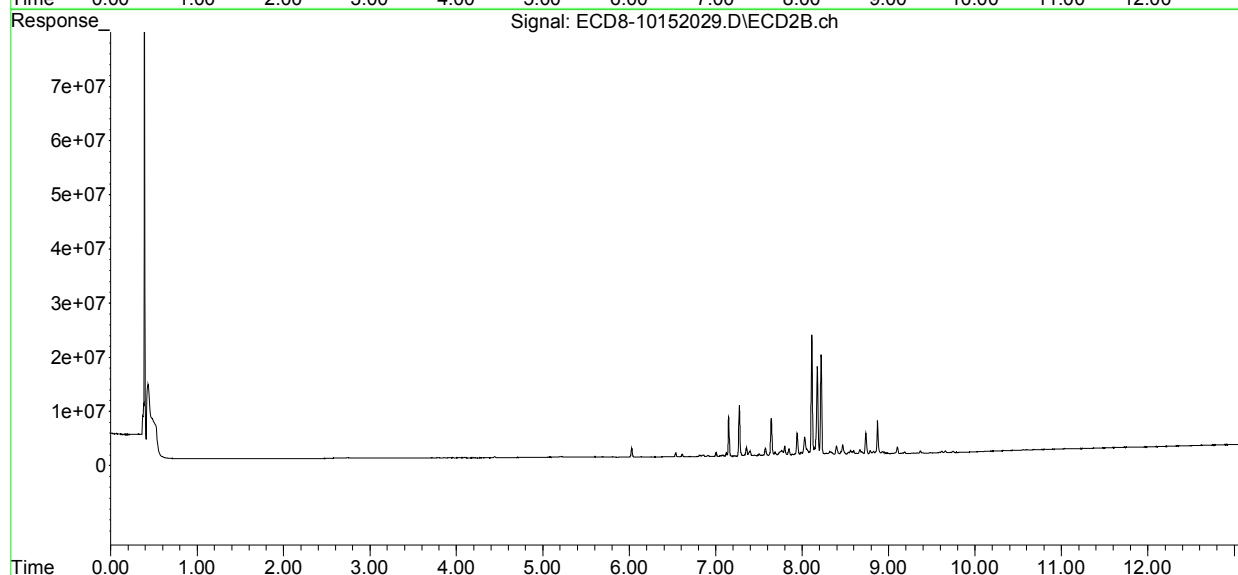
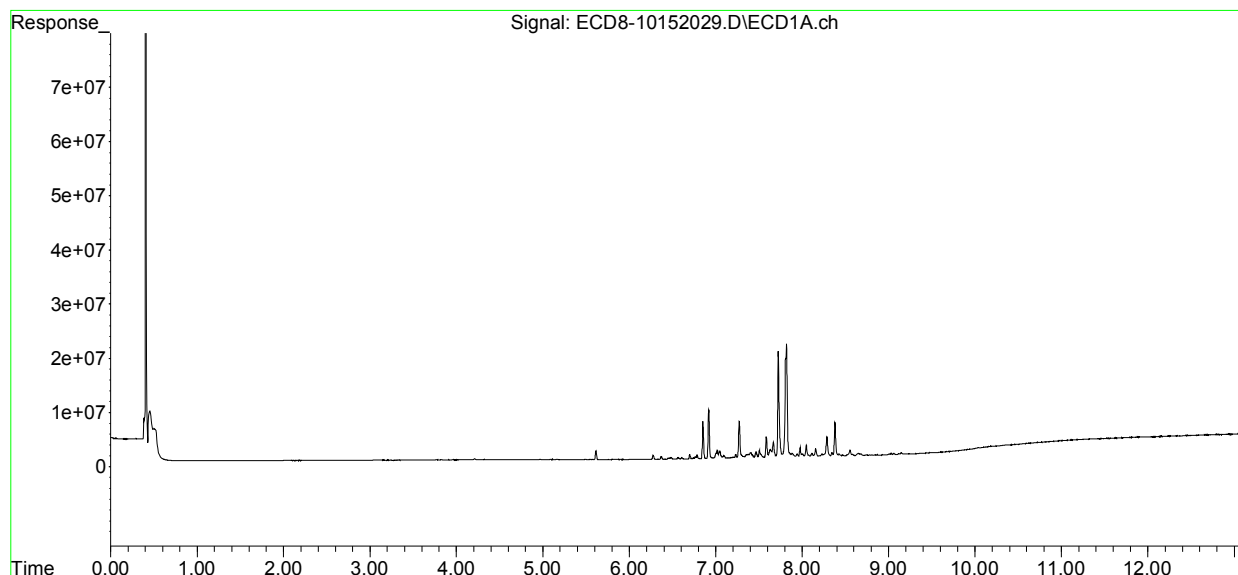
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.736	3694204	3883327	0.926	0.895
31)	Mirex	8.964	9.658	19461	302682	BelowCal	BelowCal
32)	Chlordane...	7.725	8.111	19538919	22190571	47.430	45.553
33)	Chlordane...	7.820	8.217	20854744	18468542	49.754	44.610
34)	Chlordane...	8.379	8.873	6256198	6150473	48.514	45.475
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.820	8.468f	20854744	1811484	1401.833	47.664 #
37)	Toxaphene...	8.112	8.789	640327	611009	19.440	12.960 #
38)	Toxaphene...	8.426	8.826	413884	483861	5.970	6.880
39)	Toxaphene...	8.649	8.873	456959	6150473	6.140	51.627 #
40)	Toxaphene...	8.869f	9.072	105054	183457	1.770	2.663 #
41)	Toxaphene...	8.964	9.449	19461	10590	0.289	0.141 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152029.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 00:52  
Operator : MJB  
Sample : 0J15061-CALK  
Misc : A20F057, CHLOR 50 ppb  
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:34:52 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152030.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:08  
 Operator : MJB  
 Sample : 0J15061-CALL  
 Misc : A20F058, CHLOR 100 ppb  
 ALS Vial : 26 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:02 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	5.680	5.963f	20660	23665	0.006	0.006
22) S	DCBP (S)	9.905	10.473f	199559	73652	BelowCal	0.030
Target Compounds							
2)	a-BHC	6.258f	6.577	54537	18735	0.012	0.004 #
3)	g-BHC	6.528	6.912	49575	493025	0.012	0.106 #
4)	b-BHC	6.611	6.971	517801	54950	0.332	0.028 #
5)	Heptachlor	6.920	7.272	18093909	20519528	4.458	4.483
6)	d-BHC	6.765	7.213	608290	177077	0.256	0.111 #
7)	Aldrin	7.180	7.500f	251385	752437	0.064	0.176 #
8)	Heptachlo...	7.635	7.989	2867507	1101957	0.784	0.274 #
9)	trans-Chl...	7.725	8.110	40102111	46516148	10.889	11.687
10)	cis-Chlor...	7.819	8.216	40925321	39446568	11.298	10.167
11)	Endosulfa...	7.939	8.282	1068395	703497	0.314	0.196 #
12)	4,4'-DDE	7.884	8.316	1315261	1068876	0.417	0.363
13)	Dieldrin	8.112	8.468	1346652	3842608	0.358	1.020 #
14)	Endrin	8.286	8.688	7134309	1003287	2.602	0.414 #
15)	4,4'-DDD	8.286	8.735	7134309	7621823	2.623	2.655
16)	Endosulfa...	8.426	8.825	895588	1003790	0.304	0.308
17)	4,4'-DDT	8.469f	8.947	349089	758528	0.172	0.345 #
18)	Endrin Al...	8.741	9.100f	229587	2393213	BelowCal	0.549
19)	Endosulfa...	9.030	9.265	581129	59892	0.194	0.018 #
20)	Methoxychlor	8.840	9.419	195441	44271	0.142	BelowCal #
21)	Endrin Ke...	9.238	9.658	76462	522438	0.021	0.134 #
23)	Hexachlor...	0.000	3.717	0	43921	N.D.	BelowCal
24)	Hexachlor...	6.064	6.422f	29854	110566	0.009	0.027 #
25)	Oxychlorane	7.584f	7.883	7690311	537030	2.362	0.150 #
26)	2,4'-DDE	7.635	8.110	2867507	46516148	1.332	18.912 #
27)	trans-Non...	7.819	8.176	40925321	34061650	11.227	8.517
28)	2,4'-DDD	8.002	8.468	1148787	3842608	0.591	1.680 #
29)	2,4'-DDT	8.198	8.688	349223	1003287	0.161	0.343 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152030.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:08  
 Operator : MJB  
 Sample : 0J15061-CALL  
 Misc : A20F058, CHLOR 100 ppb  
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:02 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	7134309	7621823	1.788	1.756
31)	Mirex	8.971	9.658	3477	522438	BelowCal	BelowCal
32)	Chlordane...	7.725	8.110	40102111	46516148	97.346	95.488
33)	Chlordane...	7.819	8.216	40925321	39446568	97.637	95.281
34)	Chlordane...	8.379	8.872	12465253	12535896	96.663	92.687
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.819	8.468f	40925321	3842608	2750.954	101.106 #
37)	Toxaphene...	8.112	8.788	1346652	1280764	40.884	27.167 #
38)	Toxaphene...	8.426	8.825	895588	1003790	12.919	14.272
39)	Toxaphene...	8.651	8.872	748684	12535896	10.060	105.227 #
40)	Toxaphene...	8.869f	9.039f	218849	240755	3.687	3.495
41)	Toxaphene...	8.971	9.449	3477	26950	0.052	0.360 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

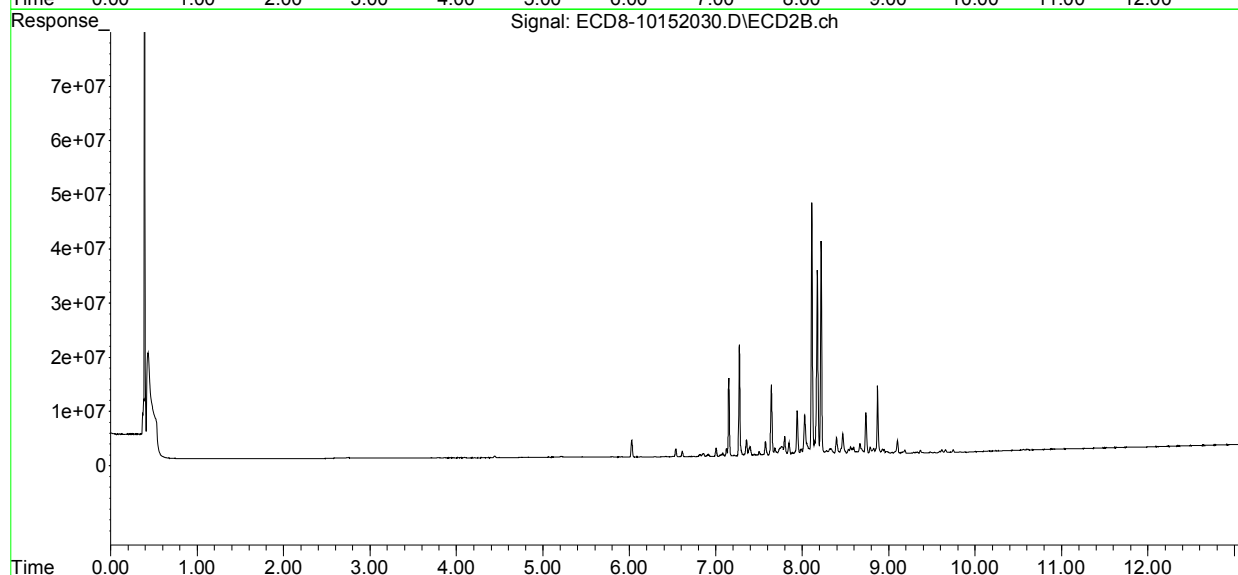
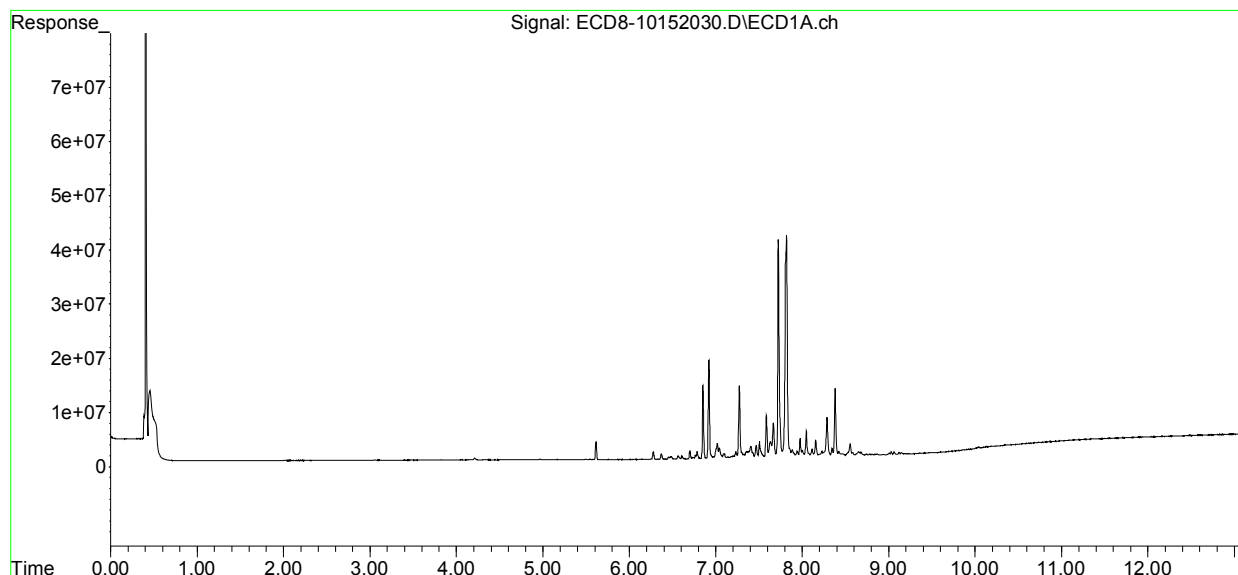
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152030.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:08  
Operator : MJB  
Sample : 0J15061-CALL  
Misc : A20F058, CHLOR 100 ppb  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:35:02 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152031.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:24  
 Operator : MJB  
 Sample : 0J15061-CALM  
 Misc : A20F059, CHLOR 200 ppb  
 ALS Vial : 27 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:10 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.681	5.961f	31459	27231	0.009	0.007
22) S DCBP (S)	9.919	10.470f	296432	101108	BelowCal	0.042
Target Compounds						
2) a-BHC	6.225	6.615f	38484	1981545	0.008	0.370 #
3) g-BHC	6.530	6.912	70116	906084	0.017	0.195 #
4) b-BHC	6.611	6.953	973165	148972	0.623	0.076 #
5) Heptachlor	6.918	7.272	37810761	41611295	9.316	9.092
6) d-BHC	6.765	7.213	1109130	350439	0.419	0.154 #
7) Aldrin	7.175	7.500f	584213	1549820	0.149	0.363 #
8) Heptachlo...	7.634	7.989	5621933	2211943	1.538	0.551 #
9) trans-Chl...	7.723	8.110	83839566	95919284	22.766	24.099
10) cis-Chlor...	7.819	8.217	83684527	81115667	23.103	20.908
11) Endosulfa...	7.939	8.282	2223566	1584161	0.654	0.440 #
12) 4,4'-DDE	7.883	8.315	2536038	2230150	0.805	0.706
13) Dieldrin	8.111	8.467	2734489	8368576	0.728	2.199 #
14) Endrin	8.286	8.688	14566305	2105793	5.312	0.840 #
15) 4,4'-DDD	8.286	8.735	14566305	15298762	5.356	5.299
16) Endosulfa...	8.425	8.825	1843694	2198745	0.626	0.675
17) 4,4'-DDT	8.470f	8.947	797744	1545792	0.352	0.636 #
18) Endrin Al...	8.740	9.100f	466107	4685425	BelowCal	1.335
19) Endosulfa...	9.029	9.265	1100818	139424	0.368	0.042 #
20) Methoxychlor	8.839	9.422	416130	115004	0.302	0.031 #
21) Endrin Ke...	9.237	9.657	101374	1006446	0.027	0.258 #
23) Hexachlor...	3.475	3.716	14721	39636	BelowCal	BelowCal
24) Hexachlor...	6.057	6.478f	61999	64875	0.018	0.016
25) Oxychlordane	7.583f	7.884	15774576	1110879	4.845	0.311 #
26) 2,4'-DDE	7.634	8.110	5621933	95919284	2.611	38.999 #
27) trans-Non...	7.819	8.176	83684527	71289498	22.957	17.825
28) 2,4'-DDD	8.002	8.467	2329243	8368576	1.199	3.659 #
29) 2,4'-DDT	8.157f	8.688	6477923	2105793	2.979	0.871 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152031.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:24  
 Operator : MJB  
 Sample : 0J15061-CALM  
 Misc : A20F059, CHLOR 200 ppb  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:10 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

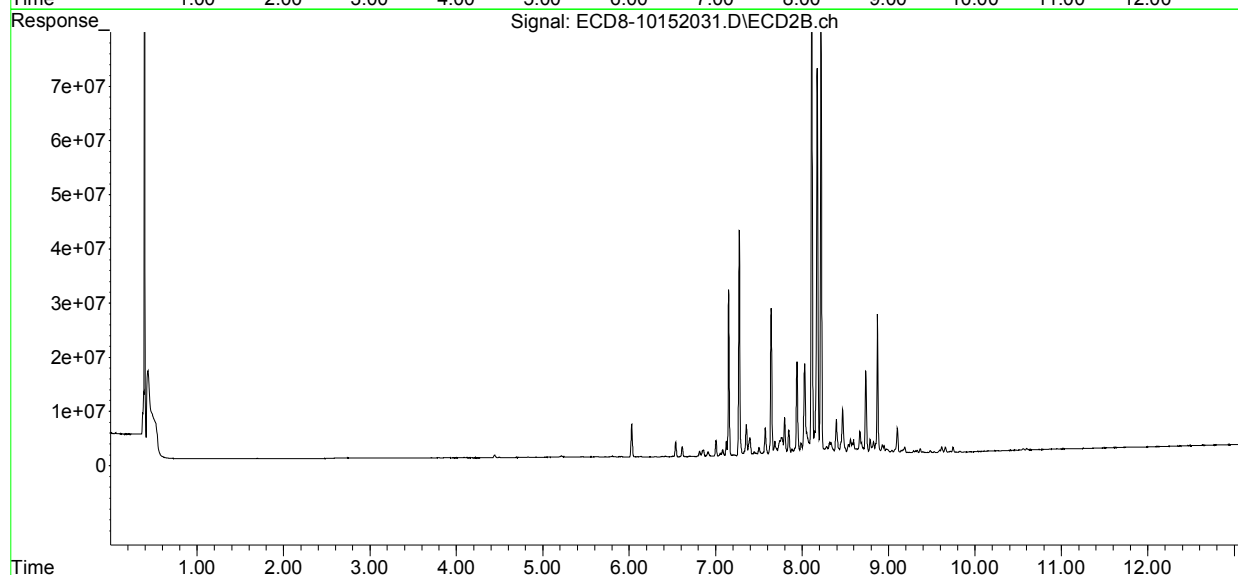
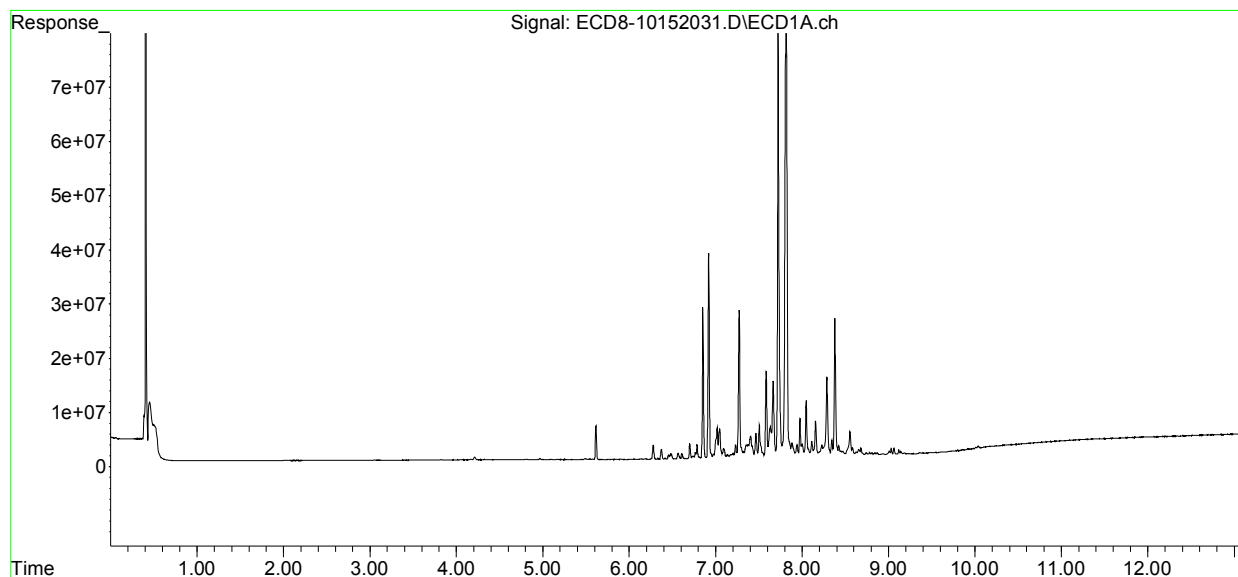
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	14566305	15298762	3.651	3.525
31)	Mirex	8.929f	9.657	173275	1006446	BelowCal	0.088
32)	Chlordane...	7.723	8.110	83839566	95919284	203.517	196.903
33)	Chlordane...	7.819	8.217	83684527	81115667	199.648	195.931
34)	Chlordane...	8.378	8.872	25372320	25782833	196.751	190.631
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.819	8.467f	83684527	8368576	5625.180	220.193 #
37)	Toxaphene...	8.111	8.789	2734489	2633442	83.018	55.859 #
38)	Toxaphene...	8.425	8.825	1843694	2198745	26.596	31.262
39)	Toxaphene...	8.653	8.872	1104477	25782833	14.841	216.422 #
40)	Toxaphene...	8.869f	9.038f	462389	570311	7.789	8.279
41)	Toxaphene...	8.929f	9.450	173275	109397	2.574	1.461 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:24  
Operator : MJB  
Sample : 0J15061-CALM  
Misc : A20F059, CHLOR 200 ppb  
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:35:10 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152032.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:41  
 Operator : MJB  
 Sample : 0J15061-CALN  
 Misc : A20F060, CHLOR 500 ppb  
 ALS Vial : 28 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:18 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	5.681	6.001	110799	116318	0.031	0.029
22) S	DCBP (S)	9.921	10.507	424514	68123	BelowCal	0.028
Target Compounds							
2)	a-BHC	6.223	6.614f	79840	4224724	0.017	0.790 #
3)	g-BHC	6.530	6.912	205799	2103527	0.051	0.452 #
4)	b-BHC	6.610	6.964	2242528	279901	1.437	0.143 #
5)	Heptachlor	6.918	7.272	92217127	101.7E6	22.722	22.216
6)	d-BHC	6.764	7.211	2561930	726297	0.892	0.247 #
7)	Aldrin	7.175	7.545	1455495	1354986	0.371	0.317
8)	Heptachlo...	7.634	7.988	14127912	5379798	3.864	1.340 #
9)	trans-Chl...	7.723	8.109	209.0E6	255.1E6	56.764	64.103
10)	cis-Chlor...	7.818	8.216	206.6E6	207.8E6	57.034	53.554
11)	Endosulfa...	7.938	8.281	5464012	3658127	1.606	1.017 #
12)	4,4'-DDE	7.882	8.315	6165178	5290134	1.957	1.606
13)	Dieldrin	8.110	8.466	6569286	21901890	1.749	5.699 #
14)	Endrin	8.285	8.686	35687502	4863760	13.014	1.901 #
15)	4,4'-DDD	8.285	8.734	35687502	38638907	13.122	13.168
16)	Endosulfa...	8.425	8.823	4512772	5150741	1.532	1.582
17)	4,4'-DDT	8.496	8.946	991069	3787211	0.429	1.464 #
18)	Endrin Al...	8.740	9.099f	1240449	11436414	0.137	3.645 #
19)	Endosulfa...	9.029	9.243f	2575717	468116	0.862	0.141 #
20)	Methoxychlor	8.839	9.420	1146618	310246	0.833	0.170 #
21)	Endrin Ke...	9.237	9.656	188435	2246036	0.051	0.575 #
23)	Hexachlor...	3.438f	3.700	17291	22765	BelowCal	BelowCal
24)	Hexachlor...	6.069	6.422f	114292	421085	0.034	0.104 #
25)	Oxychlorane	7.582f	7.883	39906229	2641914	12.257	0.740 #
26)	2,4'-DDE	7.634	8.109	14127912	255.1E6	6.561	103.736 #
27)	trans-Non...	7.818	8.175	206.6E6	177.4E6	56.675	44.369
28)	2,4'-DDD	8.001	8.466	5749963	21901890	2.960	9.576 #
29)	2,4'-DDT	8.156f	8.686	15530262	4863760	7.142	2.187 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152032.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:41  
 Operator : MJB  
 Sample : 0J15061-CALN  
 Misc : A20F060, CHLOR 500 ppb  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:18 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

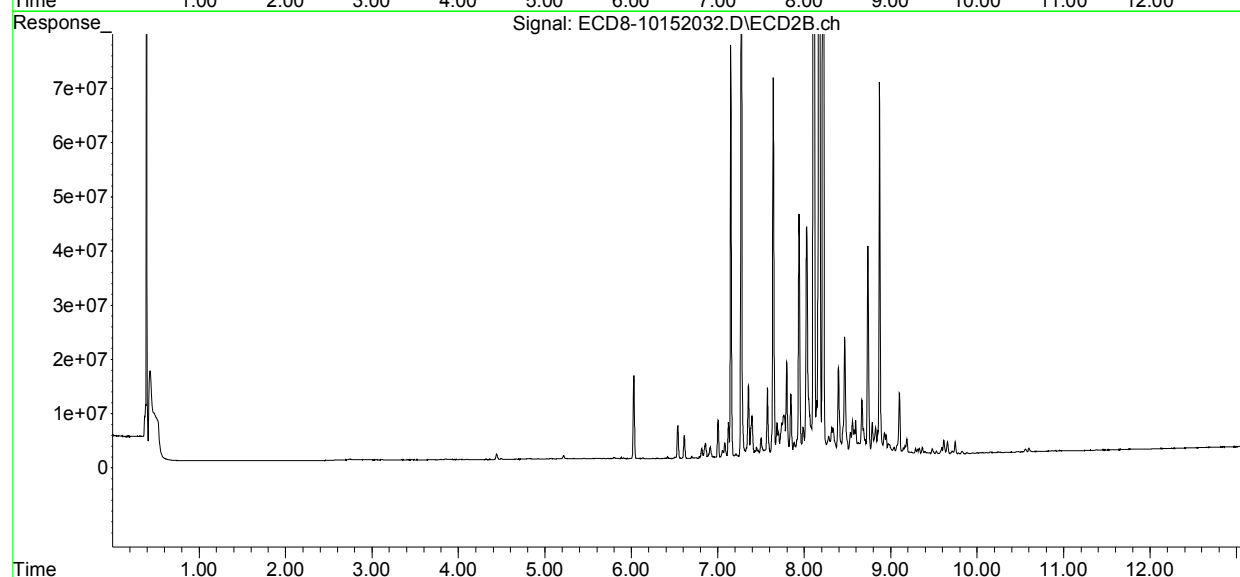
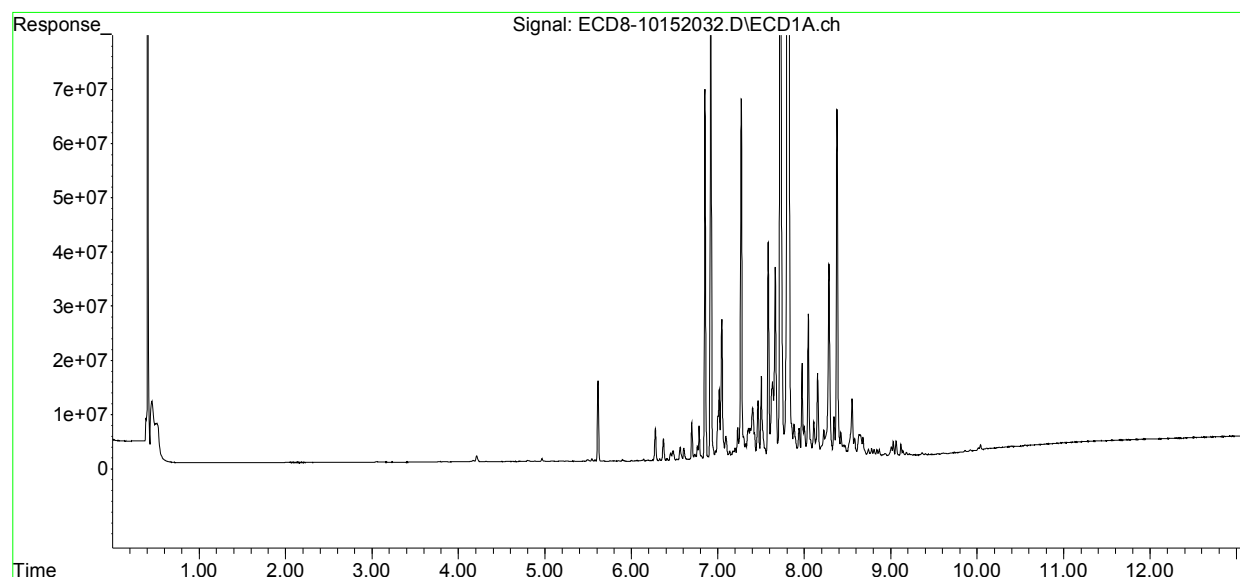
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.734	35687502	38638907	8.945	8.902
31)	Mirex	8.938f	9.656	418978	2246036	BelowCal	0.607
32)	Chlordane...	7.723	8.109	209.0E6	255.1E6	507.446	523.757
33)	Chlordane...	7.818	8.216	206.6E6	207.8E6	492.869	501.859
34)	Chlordane...	8.378	8.871	64135607	68754277	497.343	508.349
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.818	8.466f	206.6E6	21901890	13886.810	576.281 #
37)	Toxaphene...	8.110	8.788	6569286	6082032	199.440	129.009 #
38)	Toxaphene...	8.425	8.823	4512772	5150741	65.097	73.234
39)	Toxaphene...	8.648	8.871	3956278	68754277	53.161	577.125 #
40)	Toxaphene...	8.868f	9.099f	1174027	11436414	19.777	166.009 #
41)	Toxaphene...	8.938f	9.449	418978	293849	6.223	3.924 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152032.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:41  
Operator : MJB  
Sample : 0J15061-CALN  
Misc : A20F060, CHLOR 500 ppb  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:35:18 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152033.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:58  
 Operator : MJB  
 Sample : 0J15061-CALO  
 Misc : A20F061, CHLOR 1000 ppb  
 ALS Vial : 29 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:26 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.681	6.001	169291	71198	0.048	0.018 #
22) S DCBP (S)	9.892	10.523	176455	94741	BelowCal	0.039
Target Compounds						
2) a-BHC	6.223	6.615f	144304	7589500	0.031	1.419 #
3) g-BHC	6.529	6.912	409459	3837984	0.102	0.825 #
4) b-BHC	6.610	6.955	4326177	488660	2.772	0.250 #
5) Heptachlor	6.918	7.272	180.3E6	210.9E6	44.429	46.081
6) d-BHC	6.764	7.211	5010884	1179359	1.687	0.359 #
7) Aldrin	7.175	7.545	2528207	2004920	0.644	0.470 #
8) Heptachlo...	7.633	7.987	26358676	10115550	7.210	2.519 #
9) trans-Chl...	7.722	8.110	397.3E6	490.1E6	107.890	123.129
10) cis-Chlor...	7.818	8.216	397.5E6	427.7E6	109.729	110.252
11) Endosulfa...	7.938	8.282	10732001	7915123	3.155	2.201 #
12) 4,4'-DDE	7.882	8.315	11971064	9992135	3.799	2.982
13) Dieldrin	8.110	8.467	12585414	46869135	3.350	12.064 #
14) Endrin	8.286	8.687	70487451	9590399	25.703	3.708 #
15) 4,4'-DDD	8.286	8.735	70487451	76378208	25.918	25.399
16) Endosulfa...	8.425	8.823	9079282	10387840	3.082	3.190
17) 4,4'-DDT	8.495	8.947	2160595	7301863	0.897	2.754 #
18) Endrin Al...	8.740	9.099f	2354170	22579861	0.529	7.438 #
19) Endosulfa...	9.029	9.243f	4921983	1092565	1.647	0.329 #
20) Methoxychlor	8.839	9.421	2315968	686247	1.682	0.438 #
21) Endrin Ke...	9.239	9.657	348342	4411974	0.094	1.129 #
23) Hexachlor...	0.000	3.695	0	10231	N.D.	BelowCal
24) Hexachlor...	6.056	6.421f	196973	776664	0.058	0.193 #
25) Oxychlorane	7.581f	7.882	76575219	4632499	23.520	1.298 #
26) 2,4'-DDE	7.633	8.110	26358676	490.1E6	12.241	199.255 #
27) trans-Non...	7.818	8.175	397.5E6	364.1E6	109.037	91.038
28) 2,4'-DDD	8.001	8.467	11435246	46869135	5.886	20.491 #
29) 2,4'-DDT	8.157f	8.687	33148881	9590399	15.244	4.428 #



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152033.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:58  
 Operator : MJB  
 Sample : 0J15061-CALO  
 Misc : A20F061, CHLOR 1000 ppb  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:26 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

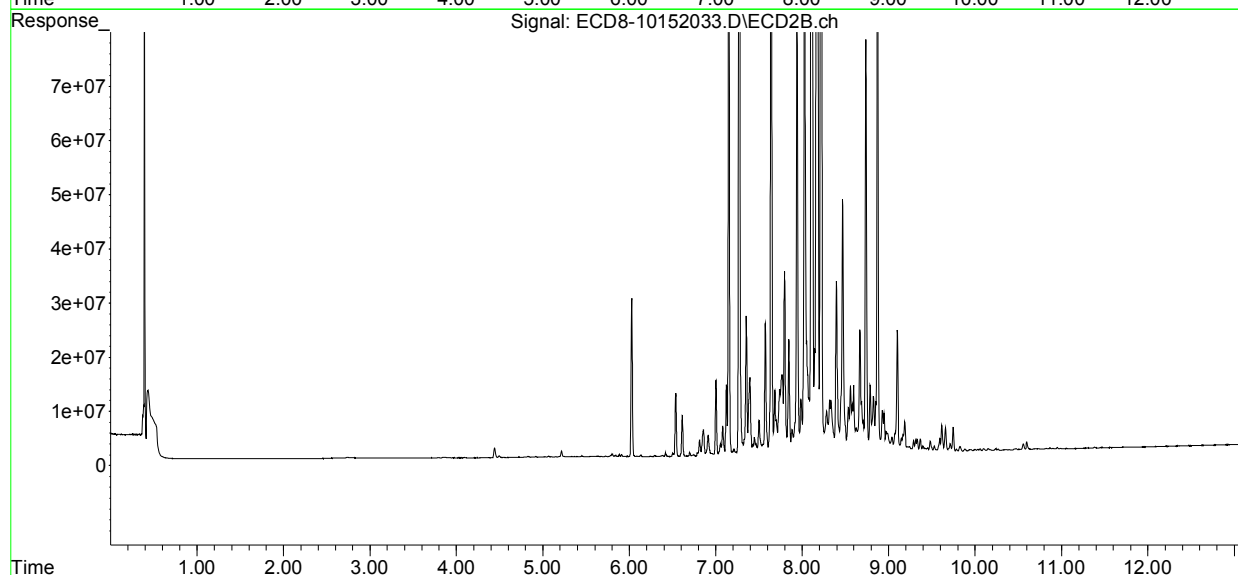
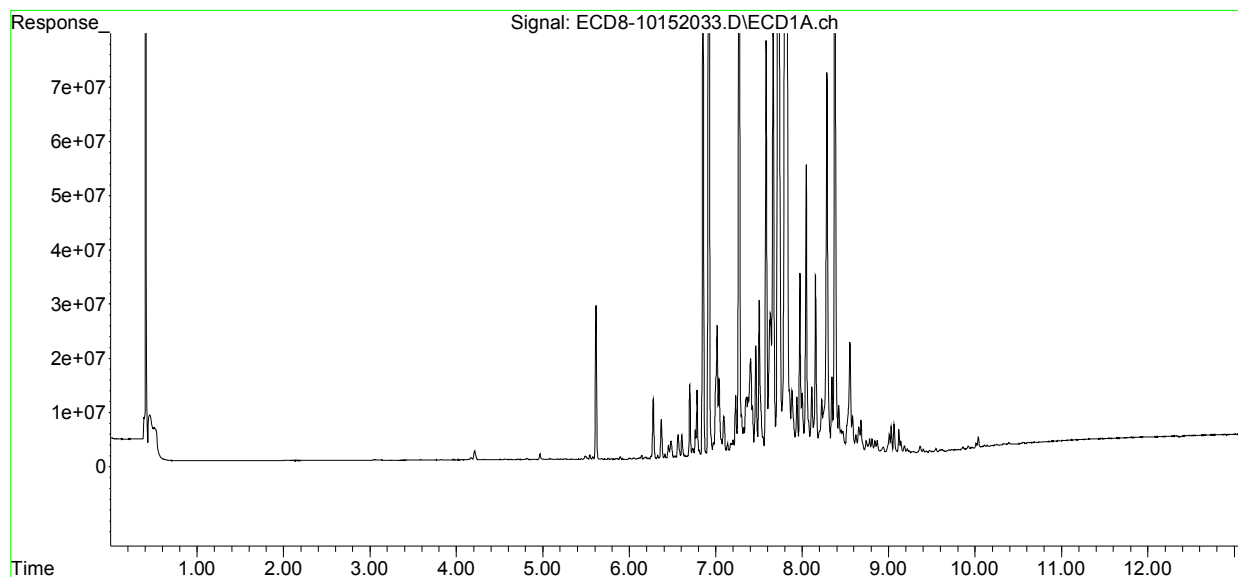
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	70487451	76378208	17.667	17.597
31)	Mirex	8.938f	9.657	1063687	4411974	0.150	1.512 #
32)	Chlordane...	7.722	8.110	397.3E6	490.1E6	964.491	1006.031
33)	Chlordane...	7.818	8.216	397.5E6	427.7E6	948.240	1033.189
34)	Chlordane...	8.378	8.872	126.7E6	138.5E6	982.600	1023.753
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.818	8.467f	397.5E6	46869135	26717.094	1233.218 #
37)	Toxaphene...	8.110	8.788	12585414	12520551	382.086	265.579 #
38)	Toxaphene...	8.425	8.823	9079282	10387840	130.970	147.696
39)	Toxaphene...	8.652	8.872	4981725	138.5E6	66.940	1162.259 #
40)	Toxaphene...	8.869f	9.099f	2421809	22579861	40.796	327.765 #
41)	Toxaphene...	8.938f	9.451	1063687	753325	15.799	10.060 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152033.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:58  
Operator : MJB  
Sample : 0J15061-CALO  
Misc : A20F061, CHLOR 1000 ppb  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:35:26 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152034.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:14  
 Operator : MJB  
 Sample : 0J15061-CALP  
 Misc : A20F056, CHLOR 2000 ppb  
 ALS Vial : 30 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:33 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	6.028f	327273	64063695	0.093	16.013 #
22) S DCBP (S)	9.921	10.523	1183133	219433	0.216	0.091 #
Target Compounds						
2) a-BHC	6.223	6.615f	301020	15569408	0.064	2.911 #
3) g-BHC	6.529	6.912	795606	7930079	0.198	1.705 #
4) b-BHC	6.610	6.955	9188954	993056	5.887	0.508 #
5) Heptachlor	6.918	7.272	386.0E6	463.5E6	95.101	101.277
6) d-BHC	6.764	7.210	10379882	2344687	3.421	0.648 #
7) Aldrin	7.175	7.545	5105978	3953327	1.300	0.926 #
8) Heptachlo...	7.633	7.987	57116400	22382390	15.623	5.573 #
9) trans-Chl...	7.722	8.109	894.2E6	1157.0E6	242.811	290.684
10) cis-Chlor...	7.818	8.216	880.4E6	946.8E6	243.046	244.037
11) Endosulfa...	7.937	8.281	22675257	17938862	6.667	4.988 #
12) 4,4'-DDE	7.881	8.314	25299135	21901524	8.029	6.432
13) Dieldrin	8.109	8.466	27741708	108.0E6	7.384	27.179 #
14) Endrin	8.285	8.686	150.6E6	20893477	54.908	7.972 #
15) 4,4'-DDD	8.285	8.734	150.6E6	172.1E6	55.366	54.165
16) Endosulfa...	8.424	8.823	19462067	23326122	6.608	7.164
17) 4,4'-DDT	8.495	8.946	4686699	16392184	1.906	6.049 #
18) Endrin Al...	8.739	9.099f	5262699	50186688	1.554	16.736 #
19) Endosulfa...	9.028	9.242f	10489120	2549737	3.510	0.767 #
20) Methoxychlor	8.838	9.420	5113063	1598273	3.714	1.087 #
21) Endrin Ke...	9.238	9.656	798831	9314822	0.216	2.385 #
23) Hexachlor...	0.000	3.714	0	32123	N.D.	BelowCal
24) Hexachlor...	6.050	6.422f	407275	1504319	0.121	0.373 #
25) Oxychlorane	7.545	7.882	7526227	9465730	2.312	2.652
26) 2,4'-DDE	7.633	8.109	57116400	1157.0E6	26.524	470.403 #
27) trans-Non...	7.818	8.175	880.4E6	808.0E6	241.515	202.018
28) 2,4'-DDD	8.000	8.466	24640620	108.0E6	12.683	47.213 #
29) 2,4'-DDT	8.156f	8.686	73271989	20893477	33.695	9.707 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152034.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:14  
 Operator : MJB  
 Sample : 0J15061-CALP  
 Misc : A20F056, CHLOR 2000 ppb  
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:33 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

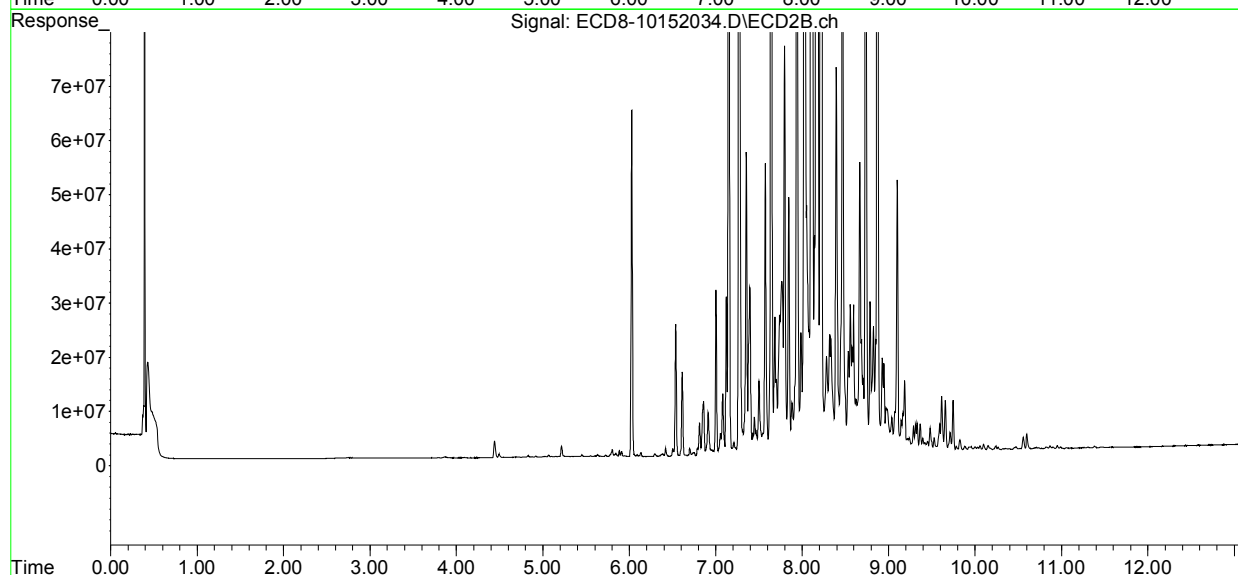
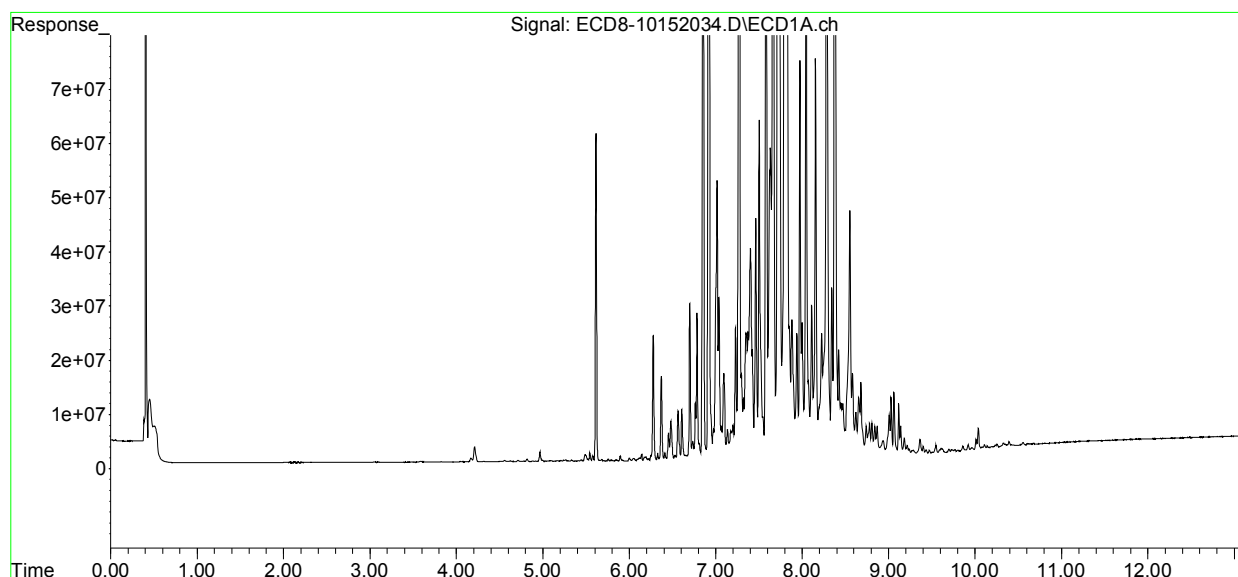
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.734	150.6E6	172.1E6	37.740	39.661
31)	Mirex	8.939f	9.656	2486060	9314822	0.753	3.558 #
32)	Chlordane...	7.722	8.109	894.2E6	1157.0E6	2170.626	2375.047
33)	Chlordane...	7.818	8.216	880.4E6	946.8E6	2100.325	2286.910
34)	Chlordane...	8.378	8.871	274.6E6	302.1E6	2129.576	2233.653
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.818	8.466f	880.4E6	108.0E6	59177.641	2841.407 #
37)	Toxaphene...	8.109	8.788	27741708	27793477	842.223	589.540 #
38)	Toxaphene...	8.424	8.823	19462067	23326122	280.743	331.654
39)	Toxaphene...	8.652	8.871	10558366	302.1E6	141.874	2535.849 #
40)	Toxaphene...	8.868f	9.099f	5232631	50186688	88.146	728.500 #
41)	Toxaphene...	8.939f	9.450	2486060	1863106	36.926	24.881 #
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152034.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 2:14  
Operator : MJB  
Sample : 0J15061-CALP  
Misc : A20F056, CHLOR 2000 ppb  
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:35:33 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152037.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:04  
 Operator : MJB  
 Sample : 0J15061-CALQ  
 Misc : A20J278, TOX 10 ppb  
 ALS Vial : 32 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:59 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.981	0	17918	N.D.	0.004 #
22) S DCBP (S)	9.906	10.504	183449	48008	BelowCal	0.020
Target Compounds						
2) a-BHC	6.231	6.581	20554	28078	0.004	0.005
3) g-BHC	6.521	6.896	23105	24098	0.006	0.005
4) b-BHC	6.608	6.971	13113	33188	0.008	0.017 #
5) Heptachlor	6.924	7.281	23630	9944	0.006	0.002 #
6) d-BHC	6.763	7.219	44784	55522	0.073	0.081
7) Aldrin	7.163	0.000	49142	0	0.013	N.D. #
8) Heptachlo...	7.625	7.970	36715	133912	0.010	0.033 #
9) trans-Chl...	7.724	8.095	58612	123277	0.016	0.031 #
10) cis-Chlor...	7.808	8.200	144669	123115	0.040	0.032
11) Endosulfa...	7.934	8.278	230235	150931	0.068	0.042 #
12) 4,4'-DDE	7.882	8.305	85029	150186	0.027	0.092 #
13) Dieldrin	8.102	8.444	330702	399011	0.088	0.121 #
14) Endrin	8.283	8.685	448876	338332	0.164	0.157
15) 4,4'-DDD	8.296	8.736	391442	299286	0.144	0.106 #
16) Endosulfa...	8.422	8.825	688382	754224	0.234	0.232
17) 4,4'-DDT	8.505	8.955	649731	320219	0.293	0.182 #
18) Endrin Al...	8.708	9.071	450365	702293	BelowCal	BelowCal
19) Endosulfa...	9.030	9.265	340976	370398	0.114	0.111
20) Methoxychlor	8.818	9.443f	358235	779942	0.260	0.505 #
21) Endrin Ke...	9.233	9.670	217100	722539	0.059	0.185 #
23) Hexachlor...	0.000	3.715	0	53985	N.D.	BelowCal
24) Hexachlor...	6.071	6.451	64055	44523	0.019	0.011 #
25) Oxychlorane	7.560	7.888	121589	110603	0.037	0.031
26) 2,4'-DDE	7.620	8.095	40999	123277	0.019	0.050 #
27) trans-Non...	7.808	8.190	144669	124061	0.040	0.031
28) 2,4'-DDD	7.980	8.485	87977	193383	0.045	0.085 #
29) 2,4'-DDT	8.165	8.685	318864	338332	0.147	0.024 #

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152037.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:04  
 Operator : MJB  
 Sample : 0J15061-CALQ  
 Misc : A20J278, TOX 10 ppb  
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:35:59 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

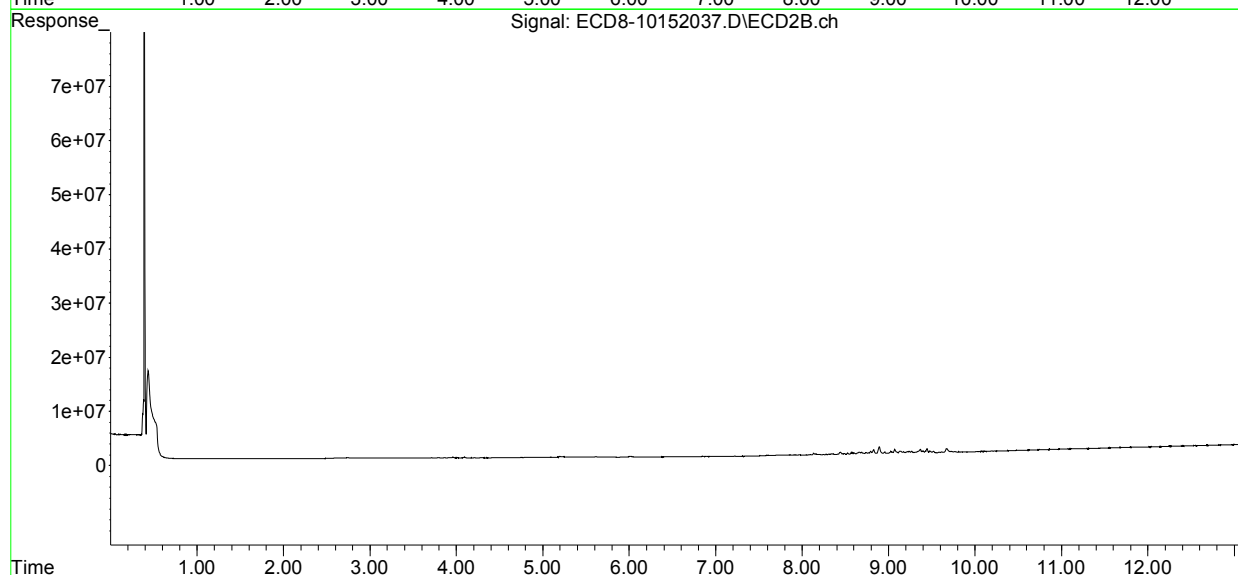
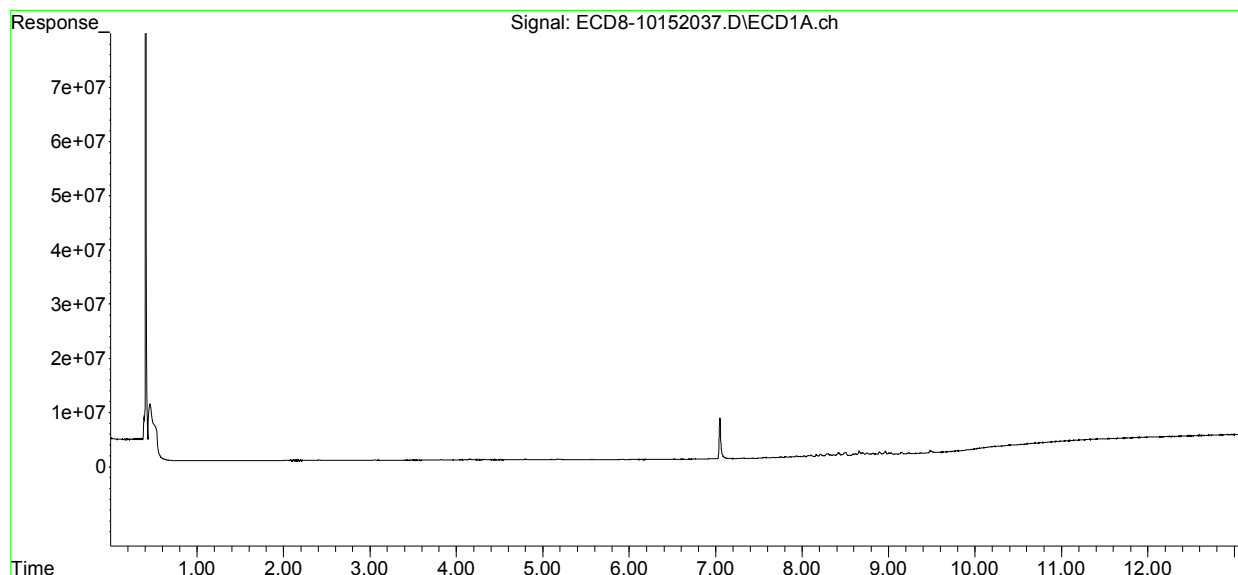
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.283	8.736	448876	299286	0.113	0.069 #
31)	Mirex	8.965	9.616f	681518	115833	BelowCal	BelowCal
32)	Chlordane...	7.724	8.095	58612	123277	0.142	0.253 #
33)	Chlordane...	7.808	8.200	144669	123115	0.345	0.297
34)	Chlordane...	8.367	8.893f	225793	1349902	1.751	9.981 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.808	8.444	144669	399011	9.725	10.499
37)	Toxaphene...	8.102	8.793	330702	464016	10.040	9.842
38)	Toxaphene...	8.422	8.825	688382	754224	9.930	10.724
39)	Toxaphene...	8.659	8.893	806604	1349902	10.838	11.331
40)	Toxaphene...	8.894	9.071	543118	702293	9.149	10.194
41)	Toxaphene...	8.965	9.443	681518	779942	10.123	10.416
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152037.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:04  
Operator : MJB  
Sample : 0J15061-CALQ  
Misc : A20J278, TOX 10 ppb  
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:35:59 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152038.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:20  
 Operator : MJB  
 Sample : 0J15061-CALR  
 Misc : A20F064, TOX 50 ppb  
 ALS Vial : 33 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:09 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	6.001	0	11357	N.D.	0.003 #
22) S DCBP (S)	9.910	10.504	157188	36285	BelowCal	0.015
Target Compounds						
2) a-BHC	6.207f	6.589	16980	18620	0.004	0.003
3) g-BHC	6.524	6.895	17923	20808	0.004	0.004
4) b-BHC	6.610	6.967	25907	30086	0.017	0.015
5) Heptachlor	6.920	7.276	34778	21542	0.009	0.005 #
6) d-BHC	6.763	7.218	61049	72583	0.078	0.085
7) Aldrin	7.168	7.540	65548	40021	0.017	0.009 #
8) Heptachlo...	7.640	7.970	196014	487958	0.054	0.122 #
9) trans-Chl...	7.710	8.118	352374	327981	0.096	0.082
10) cis-Chlor...	7.805	8.199	726337	618692	0.201	0.159
11) Endosulfa...	7.933	8.277	1072444	803398	0.315	0.223 #
12) 4,4'-DDE	7.885	8.305	370099	822599	0.117	0.291 #
13) Dieldrin	8.101	8.484	1648417	1037885	0.439	0.288 #
14) Endrin	8.282	8.686	2265555	1757793	0.826	0.706
15) 4,4'-DDD	8.297	8.738	2007377	1204485	0.738	0.423 #
16) Endosulfa...	8.421	8.825	3404622	3392585	1.156	1.042
17) 4,4'-DDT	8.492	8.953	2982242	1369800	1.226	0.571 #
18) Endrin Al...	8.707	9.070	2265327	3263105	0.498	0.847 #
19) Endosulfa...	9.027	9.265	1384638	1398974	0.463	0.421
20) Methoxychlor	8.818	9.443f	1992726	3524155	1.448	2.453 #
21) Endrin Ke...	9.218	9.644	828569	307482	0.224	0.079 #
23) Hexachlor...	0.000	3.717	0	22102	N.D.	BelowCal
24) Hexachlor...	6.064	6.452	11909	13955	0.004	0.003
25) Oxychlorane	7.558	7.886	569424	315739	0.175	0.088 #
26) 2,4'-DDE	7.604	8.093	290872	580067	0.135	0.236 #
27) trans-Non...	7.805	8.155f	726337	887981	0.199	0.222
28) 2,4'-DDD	8.006	8.484	602535	1037885	0.310	0.454 #
29) 2,4'-DDT	8.165	8.686	1697102	1757793	0.780	0.705

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152038.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:20  
 Operator : MJB  
 Sample : 0J15061-CALR  
 Misc : A20F064, TOX 50 ppb  
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:09 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

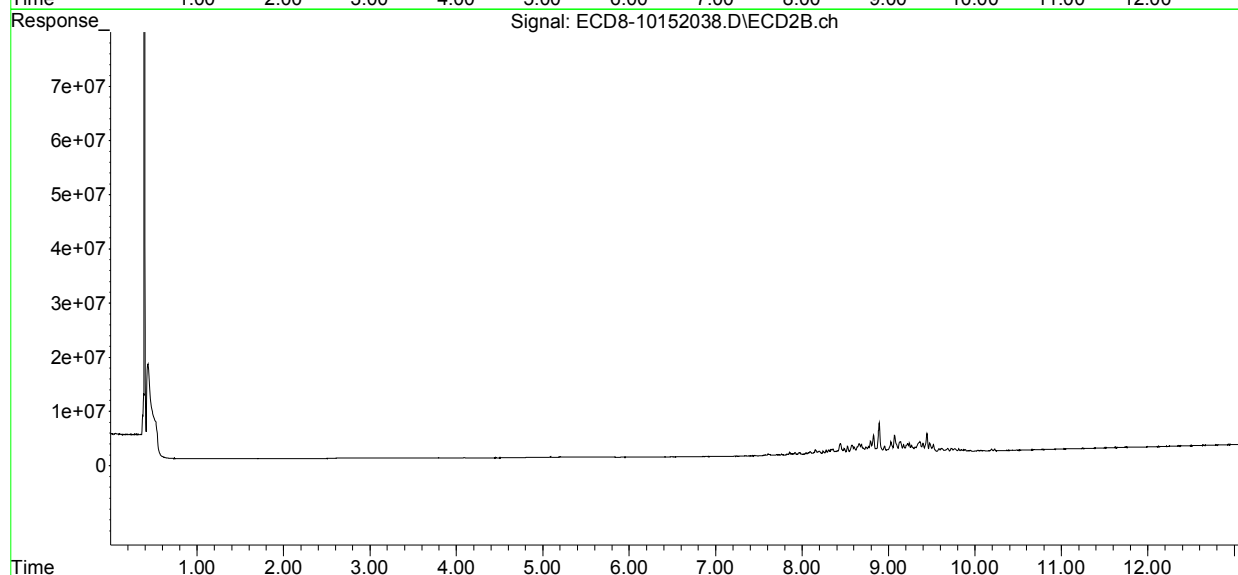
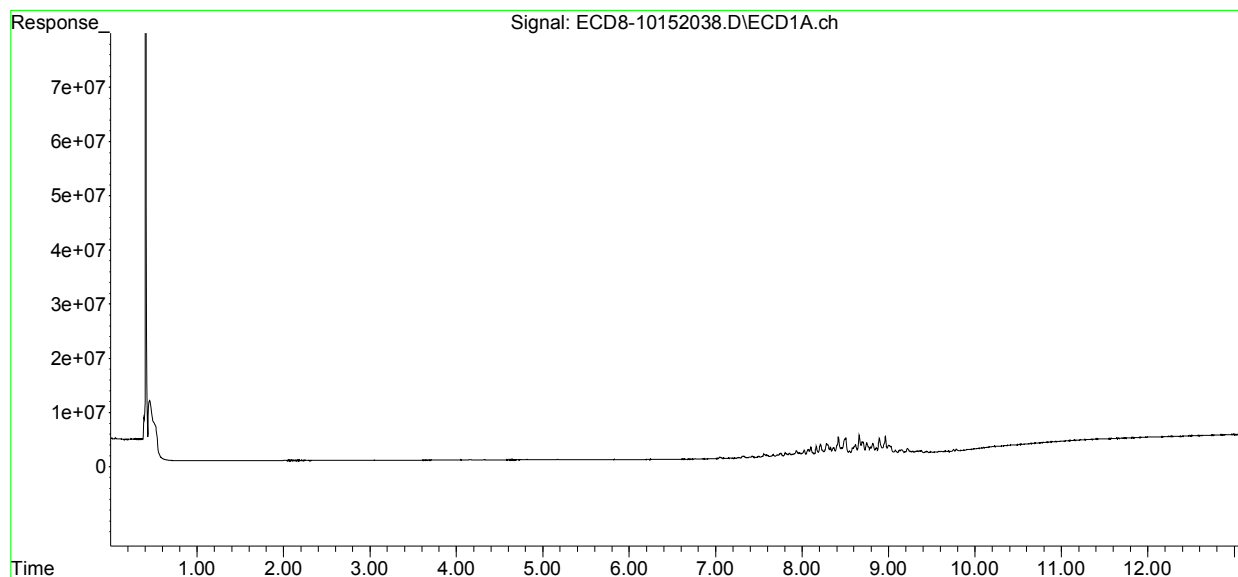
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.282	8.738	2265555	1204485	0.568	0.278 #
31)	Mirex	8.964	9.644	3244525	307482	1.075	BelowCal #
32)	Chlordane...	7.710	8.118	352374	327981	0.855	0.673
33)	Chlordane...	7.805	8.199	726337	618692	1.733	1.494
34)	Chlordane...	8.366	8.892f	1398538	5669610	10.845	41.919 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.805	8.443	726337	1944781	48.824	51.171
37)	Toxaphene...	8.101	8.793	1648417	2303326	50.045	48.857
38)	Toxaphene...	8.421	8.825	3404622	3392585	49.112	48.236
39)	Toxaphene...	8.658	8.892	3598900	5669610	48.359	47.591
40)	Toxaphene...	8.893	9.070	2870073	3263105	48.348	47.367
41)	Toxaphene...	8.964	9.443	3244525	3524155	48.192	47.063
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152038.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:20  
Operator : MJB  
Sample : 0J15061-CALR  
Misc : A20F064, TOX 50 ppb  
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:36:09 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152040.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:53  
 Operator : MJB  
 Sample : 0J15061-CALT  
 Misc : A20F066, TOX 200 ppb  
 ALS Vial : 35 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:20 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	5.980	0	15848	N.D.	0.004 #
22) S DCBP (S)	9.911	10.484f	346950	336295	BelowCal	0.139
Target Compounds						
2) a-BHC	6.232	6.585	26275	31030	0.006	0.006
3) g-BHC	6.526	6.891	32414	63329	0.008	0.014 #
4) b-BHC	6.600	6.955	31358	101133	0.020	0.052 #
5) Heptachlor	6.921	7.283	69944	134545	0.017	0.029 #
6) d-BHC	6.760	7.219	112041	152243	0.095	0.105
7) Aldrin	7.168	7.504f	250413	232297	0.064	0.054
8) Heptachlo...	7.637	7.970	970878	1885974	0.266	0.470 #
9) trans-Chl...	7.708	8.122	1518305	1352888	0.412	0.340
10) cis-Chlor...	7.804	8.199	2928701	2353949	0.809	0.607
11) Endosulfa...	7.932	8.277	4359435	3009796	1.282	0.837 #
12) 4,4'-DDE	7.882	8.304	1556414	3195519	0.494	0.990 #
13) Dieldrin	8.099	8.483	6531155	3936547	1.738	1.045 #
14) Endrin	8.282	8.686	8870121	7250586	3.235	2.816
15) 4,4'-DDD	8.295	8.740	8232473	4747286	3.027	1.658 #
16) Endosulfa...	8.419	8.825	13381927	13097504	4.543	4.023
17) 4,4'-DDT	8.492	8.953	12330217	5519157	4.932	2.101 #
18) Endrin Al...	8.707	9.070	9319598	12845839	2.984	4.126 #
19) Endosulfa...	9.026	9.265	5918710	5655045	1.980	1.702
20) Methoxychlor	8.816	9.442	8387919	13990550	6.093	9.755 #
21) Endrin Ke...	9.215	9.685f	3728114	2874284	1.008	0.736 #
23) Hexachlor...	0.000	3.714	0	14766	N.D.	BelowCal
24) Hexachlor...	6.104f	6.450	12399	14629	0.004	0.004
25) Oxychlorane	7.559	7.885	2189701	1237030	0.673	0.347 #
26) 2,4'-DDE	7.637	8.093	970878	2203347	0.451	0.896 #
27) trans-Non...	7.804	8.155f	2928701	3308844	0.803	0.827
28) 2,4'-DDD	8.021f	8.483	4663931	3936547	2.401	1.721 #
29) 2,4'-DDT	8.164	8.686	6886026	7250586	3.167	3.321

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152040.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:53  
 Operator : MJB  
 Sample : 0J15061-CALT  
 Misc : A20F066, TOX 200 ppb  
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:20 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

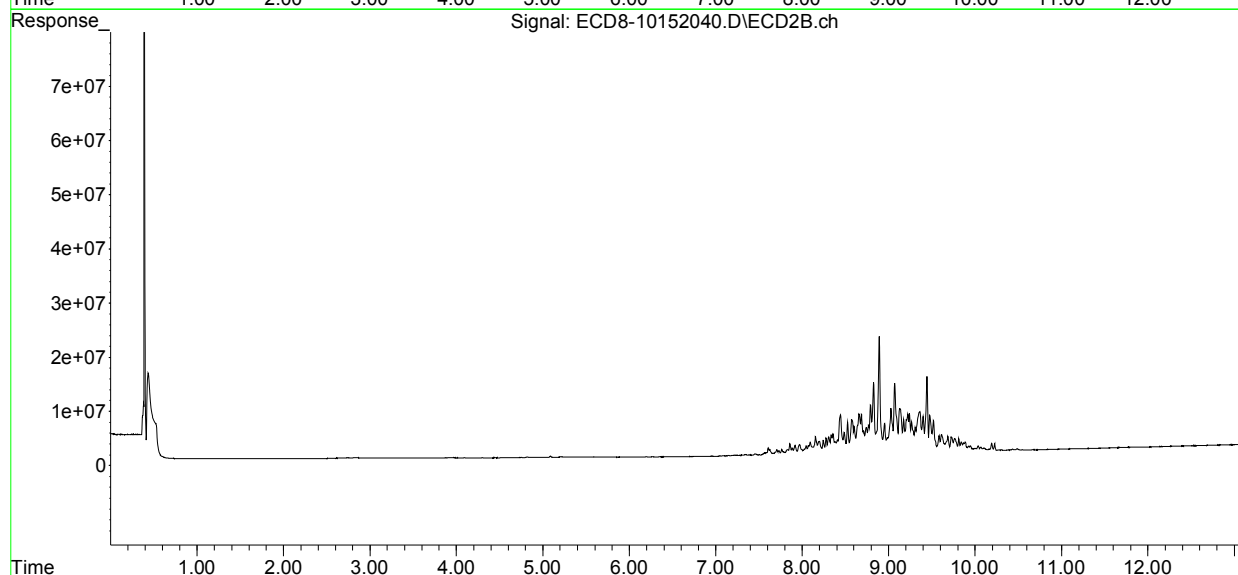
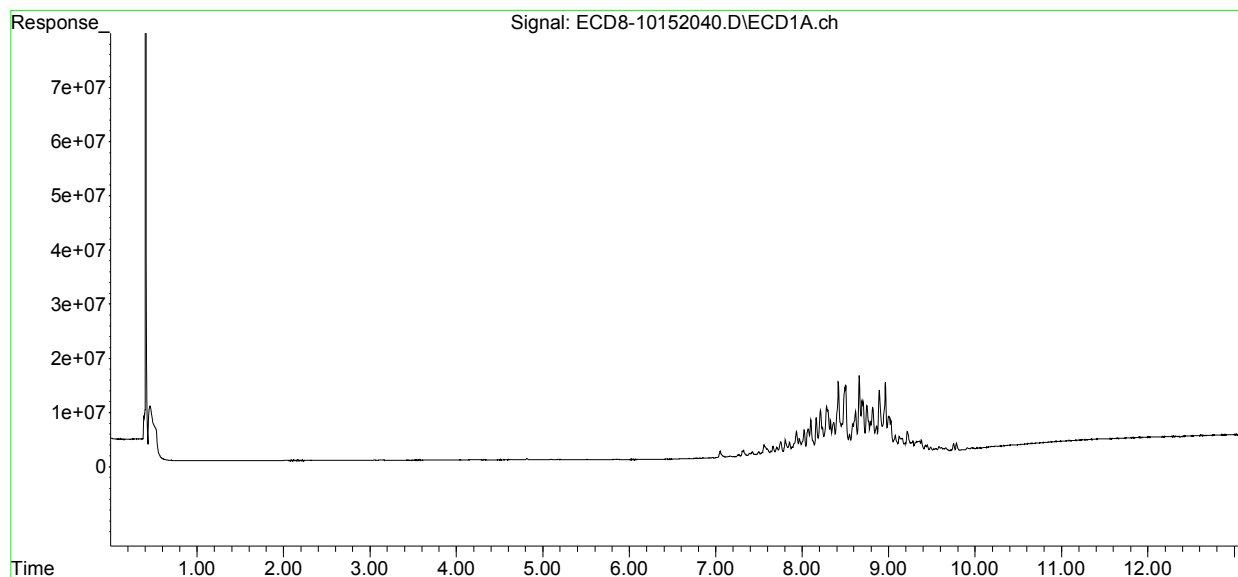
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.282	8.740	8870121	4747286	2.223	1.094 #
31)	Mirex	8.963	9.612f	13009268	3173528	5.219	0.994 #
32)	Chlordane...	7.708	8.122	1518305	1352888	3.686	2.777
33)	Chlordane...	7.804	8.199	2928701	2353949	6.987	5.686
34)	Chlordane...	8.364	8.892f	5830126	21519149	45.210	159.106 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.804	8.444	2928701	7231910	196.864	190.286
37)	Toxaphene...	8.099	8.792	6531155	8939693	198.282	189.624
38)	Toxaphene...	8.419	8.825	13381927	13097504	193.036	186.222
39)	Toxaphene...	8.658	8.892	14340541	21519149	192.696	180.632
40)	Toxaphene...	8.892	9.070	11584089	12845839	195.139	186.468
41)	Toxaphene...	8.963	9.442	13009268	13990550	193.230	186.835
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152040.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:53  
Operator : MJB  
Sample : 0J15061-CALT  
Misc : A20F066, TOX 200 ppb  
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:36:20 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152041.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:10  
 Operator : MJB  
 Sample : 0J15061-CALU  
 Misc : A20D430, TOX 500 ppb  
 ALS Vial : 36 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:32 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.677	5.997	9548	21103	0.003	0.005 #
22) S DCBP (S)	9.911	10.485f	737327	915460	0.036	0.378 #
Target Compounds						
2) a-BHC	6.233	6.584	63960	57093	0.014	0.011
3) g-BHC	6.523	6.892	48579	145409	0.012	0.031 #
4) b-BHC	6.607	6.975	55576	82684	0.036	0.042
5) Heptachlor	6.927	7.282	191558	350208	0.047	0.077 #
6) d-BHC	6.759	7.218	173662	301043	0.115	0.142
7) Aldrin	7.167	7.538	641944	558817	0.163	0.131
8) Heptachlo...	7.636	7.968	2494481	4375451	0.682	1.090 #
9) trans-Chl...	7.704	8.093	3859254	5312356	1.048	1.335 #
10) cis-Chlor...	7.803	8.197f	7355899	5543879	2.031	1.429 #
11) Endosulfa...	7.931	8.277	10725049	7176176	3.153	1.995 #
12) 4,4'-DDE	7.882	8.304	3875790	7910482	1.230	2.374 #
13) Dieldrin	8.099	8.483	16121893	9544857	4.291	2.505 #
14) Endrin	8.281	8.685	22820033	18689593	8.321	7.147
15) 4,4'-DDD	8.294	8.739	20212557	12230790	7.432	4.246 #
16) Endosulfa...	8.419	8.825	34493083	33775269	11.711	10.373
17) 4,4'-DDT	8.492	8.952	30900392	13779668	12.144	5.108 #
18) Endrin Al...	8.706	9.070	24183586	33539622	8.221	11.146 #
19) Endosulfa...	9.026	9.264	15650087	14411195	5.237	4.337
20) Methoxychlor	8.815	9.442	22055185	36618141	16.022	24.915 #
21) Endrin Ke...	9.216	9.685f	9862349	7612018	2.667	1.949 #
23) Hexachlor...	0.000	3.716	0	143178	N.D.	BelowCal
24) Hexachlor...	6.099f	6.444	25689	21215	0.008	0.005 #
25) Oxychlorane	7.558	7.917	5337073	4143676	1.639	1.161 #
26) 2,4'-DDE	7.636	8.093	2494481	5312356	1.158	2.160 #
27) trans-Non...	7.803	8.197f	7355899	5543879	2.018	1.386 #
28) 2,4'-DDD	8.021f	8.483	11659748	9544857	6.002	4.173 #
29) 2,4'-DDT	8.164	8.685	16902752	18689593	7.773	8.686

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152041.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:10  
 Operator : MJB  
 Sample : 0J15061-CALU  
 Misc : A20D430, TOX 500 ppb  
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:32 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.281	8.739	22820033	12230790	5.720	2.818 #
31)	Mirex	8.963	9.611f	33036149	8132991	13.717	3.065 #
32)	Chlordane...	7.704	8.093	3859254	5312356	9.368	10.905
33)	Chlordane...	7.803	8.197	7355899	5543879	17.549	13.391
34)	Chlordane...	8.364	8.892f	15027700	55412823	116.533	409.706 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.803	8.444	7355899	18107794	494.455	476.451
37)	Toxaphene...	8.099	8.791	16121893	22747138	489.452	482.500
38)	Toxaphene...	8.419	8.825	34493083	33775269	497.568	480.222
39)	Toxaphene...	8.657	8.892	35303409	55412823	474.377	465.137
40)	Toxaphene...	8.893	9.070	29598444	33539622	498.599	486.854
41)	Toxaphene...	8.963	9.442	33036149	36618141	490.695	489.013
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

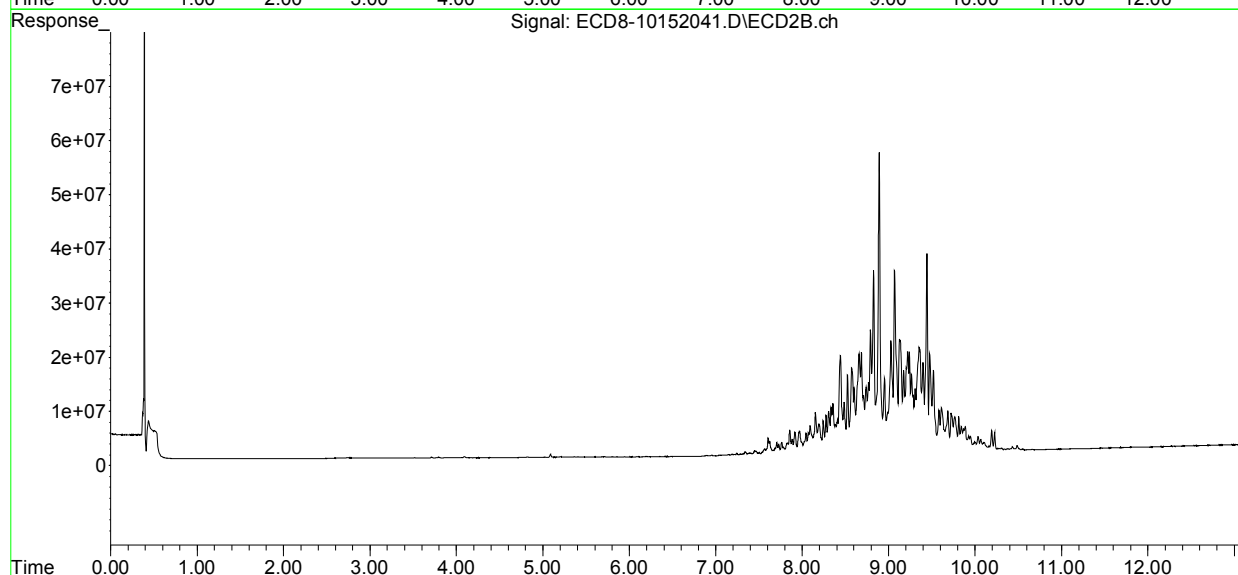
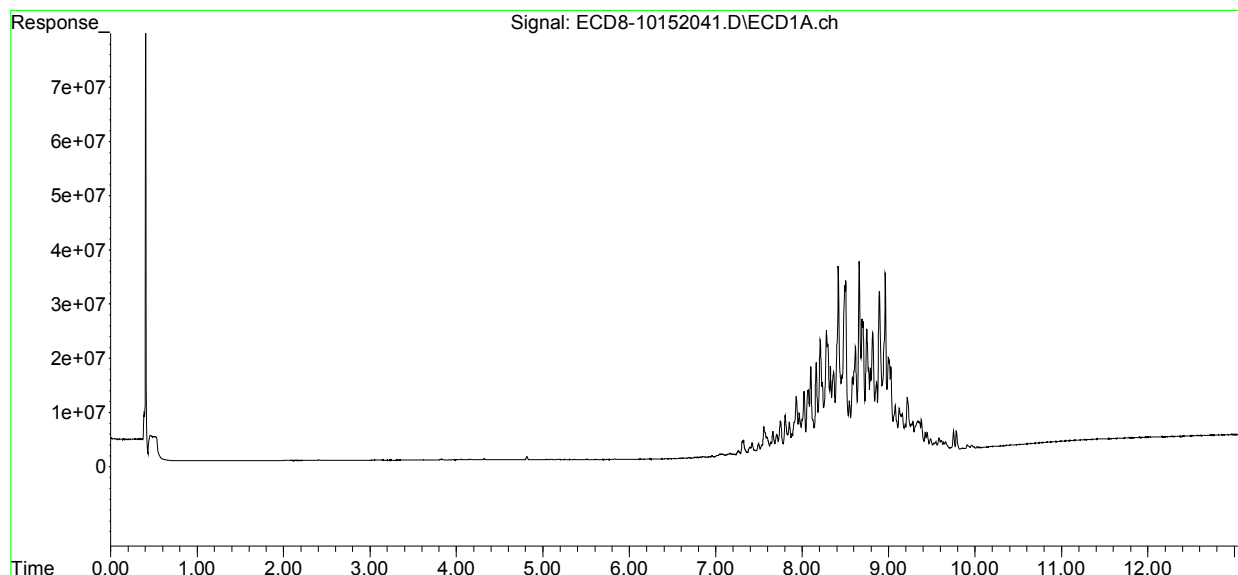
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152041.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:10  
Operator : MJB  
Sample : 0J15061-CALU  
Misc : A20D430, TOX 500 ppb  
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:36:32 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152042.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:26  
 Operator : MJB  
 Sample : 0J15061-CALV  
 Misc : A20D431, TOX 1000 ppb  
 ALS Vial : 37 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:41 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	6.007	17350	30453	0.005	0.008 #
22) S DCBP (S)	9.910	10.485f	1581180	1949290	0.376	0.806 #
Target Compounds						
2) a-BHC	6.230	6.583	120026	115633	0.025	0.022
3) g-BHC	6.520	6.890	92095	300202	0.023	0.065 #
4) b-BHC	6.605	6.956	119980	524544	0.077	0.268 #
5) Heptachlor	6.928	7.282	477246	725856	0.118	0.159 #
6) d-BHC	6.758	7.216	358875	595742	0.175	0.215
7) Aldrin	7.165	7.566f	1396136	2191963	0.355	0.513 #
8) Heptachlo...	7.635	7.969	5203813	8649843	1.423	2.154 #
9) trans-Chl...	7.702f	8.092	7875633	10538130	2.139	2.648
10) cis-Chlor...	7.802	8.195f	15006216	10888998	4.143	2.807 #
11) Endosulfa...	7.930	8.276	21816179	14263647	6.414	3.966 #
12) 4,4'-DDE	7.881	8.303	7745002	15693000	2.458	4.640 #
13) Dieldrin	8.098	8.482	32732158	19390267	8.713	5.052 #
14) Endrin	8.281	8.685	46026301	39091984	16.784	14.674
15) 4,4'-DDD	8.293	8.737	42458072	24823485	15.612	8.540 #
16) Endosulfa...	8.418	8.824	69458796	70093512	23.582	21.528
17) 4,4'-DDT	8.491	8.952	63679509	28375465	24.425	10.304 #
18) Endrin Al...	8.705	9.069	49458453	69799894	17.127	23.258 #
19) Endosulfa...	9.025	9.263	32317353	30686343	10.813	9.235
20) Methoxychlor	8.814	9.442	45960593	75965801	33.387	49.545 #
21) Endrin Ke...	9.214	9.685f	20744881	16044185	5.610	4.107 #
23) Hexachlor...	0.000	3.716	0	136111	N.D.	BelowCal
24) Hexachlor...	6.067	6.453	15375	42024	0.005	0.010 #
25) Oxychlorane	7.557	7.916	10620875	8319530	3.262	2.331 #
26) 2,4'-DDE	7.635	8.092	5203813	10538130	2.417	4.285 #
27) trans-Non...	7.802	8.195	15006216	10888998	4.117	2.723 #
28) 2,4'-DDD	8.001	8.482	13103620	19390267	6.745	8.477 #
29) 2,4'-DDT	8.163	8.685	35246663	39091984	16.209	17.990

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152042.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:26  
 Operator : MJB  
 Sample : 0J15061-CALV  
 Misc : A20D431, TOX 1000 ppb  
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:41 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

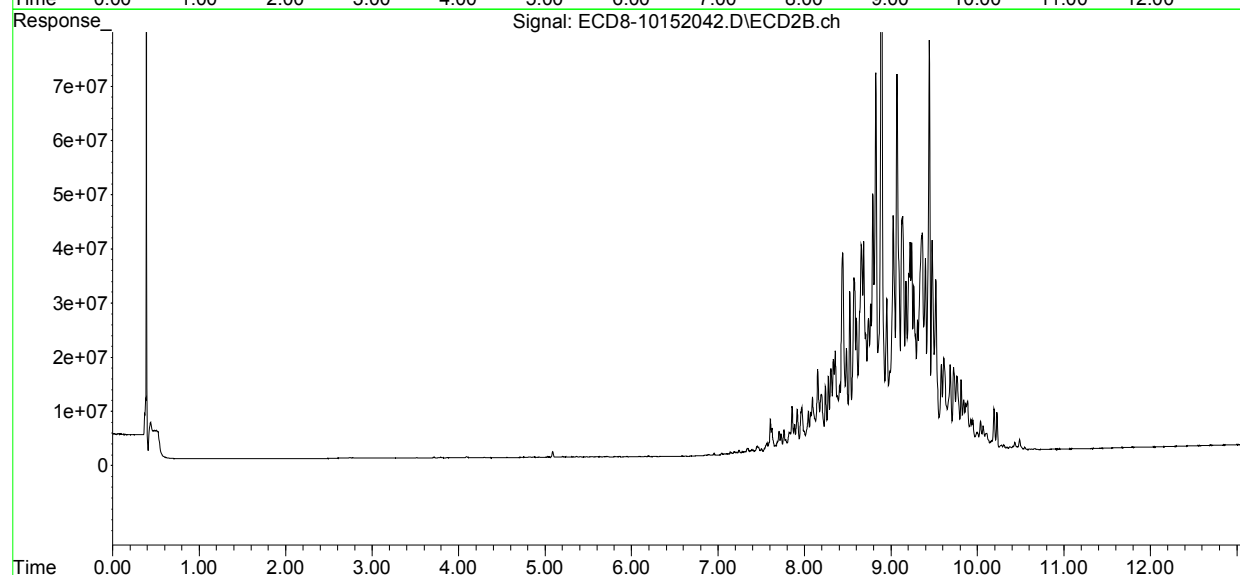
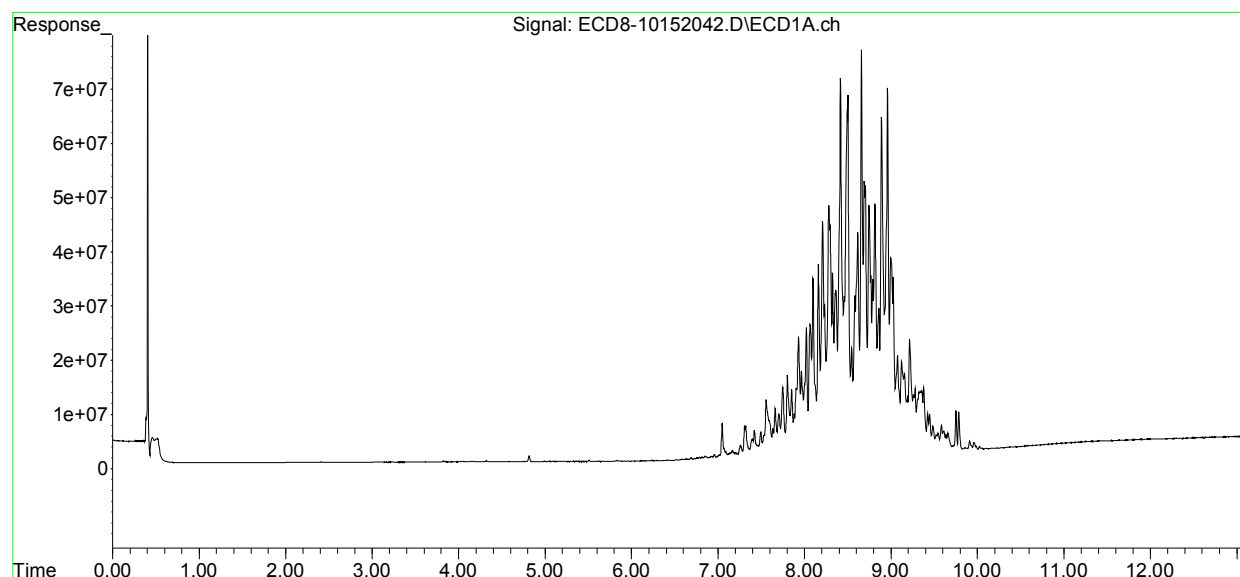
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.281	8.737	46026301	24823485	11.536	5.719 #
31)	Mirex	8.962	9.611f	67239784	17309336	28.228	6.884 #
32)	Chlordane...	7.702f	8.092	7875633	10538130	19.118	21.633
33)	Chlordane...	7.802	8.195f	15006216	10888998	35.801	26.302 #
34)	Chlordane...	8.363	8.891f	30223958	120.1E6	234.373	887.867 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.802	8.442	15006216	37044200	1008.701	974.705
37)	Toxaphene...	8.098	8.791	32732158	47836415	993.730	1014.679
38)	Toxaphene...	8.418	8.824	69458796	70093512	1001.953	996.600
39)	Toxaphene...	8.656	8.891	74462214	120.1E6	1000.560	1007.988
40)	Toxaphene...	8.891	9.069	61876109	69799894	1042.331	1013.201
41)	Toxaphene...	8.962	9.442	67239784	75965801	998.731	1014.477
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152042.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:26  
Operator : MJB  
Sample : 0J15061-CALV  
Misc : A20D431, TOX 1000 ppb  
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:36:41 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152043.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:43  
 Operator : MJB  
 Sample : 0J15061-CALW  
 Misc : A20F063, TOX 2000 ppb  
 ALS Vial : 38 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:50 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.984	29722	27925	0.008	0.007
22) S DCBP (S)	9.909	10.483f	3621144	4119258	1.199	1.703 #
Target Compounds						
2) a-BHC	6.231	6.583	231252	258471	0.049	0.048
3) g-BHC	6.519	6.889	180773	609988	0.045	0.131 #
4) b-BHC	6.604	6.954	241938	1022978	0.155	0.523 #
5) Heptachlor	6.927	7.281	974779	1463841	0.240	0.320 #
6) d-BHC	6.757	7.216	647555	1052197	0.269	0.328
7) Aldrin	7.165	7.536	2842940	2196807	0.724	0.515 #
8) Heptachlo...	7.635	7.968	10965009	17926689	2.999	4.464 #
9) trans-Chl...	7.701f	8.092	16781813	22214335	4.557	5.581
10) cis-Chlor...	7.802	8.243f	31810920	26722191	8.782	6.888
11) Endosulfa...	7.930	8.275	45871163	30727897	13.486	8.544 #
12) 4,4'-DDE	7.881	8.302	16042587	34225903	5.091	9.950 #
13) Dieldrin	8.098	8.482	67923479	40887171	18.080	10.550 #
14) Endrin	8.279	8.685	97653004	85738203	35.609	31.040
15) 4,4'-DDD	8.279f	8.737	97653004	53581524	35.906	18.080 #
16) Endosulfa...	8.418	8.823	147.3E6	151.2E6	50.013	46.431
17) 4,4'-DDT	8.502	8.952	139.8E6	62591169	51.057	21.952 #
18) Endrin Al...	8.705	9.069	106.2E6	153.5E6	37.134	50.359 #
19) Endosulfa...	9.024	9.263	69188535	66239565	23.151	19.935
20) Methoxychlor	8.813	9.442	96529580	163.3E6	70.122	98.310 #
21) Endrin Ke...	9.214	9.684f	44336334	36331764	11.990	9.301
23) Hexachlor...	0.000	3.712	0	11183	N.D.	BelowCal
24) Hexachlor...	6.068	6.450	20709	83763	0.006	0.021 #
25) Oxychlorane	7.557	7.916	21980402	16881908	6.751	4.730 #
26) 2,4'-DDE	7.635	8.092	10965009	22214335	5.092	9.032 #
27) trans-Non...	7.802	8.189	31810920	22819927	8.727	5.706 #
28) 2,4'-DDD	8.019	8.482	50836959	40887171	26.167	17.876 #
29) 2,4'-DDT	8.162	8.685	75080299	85738203	34.527	38.144

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
 Data File : ECD8-10152043.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:43  
 Operator : MJB  
 Sample : 0J15061-CALW  
 Misc : A20F063, TOX 2000 ppb  
 ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:36:50 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:18:04 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

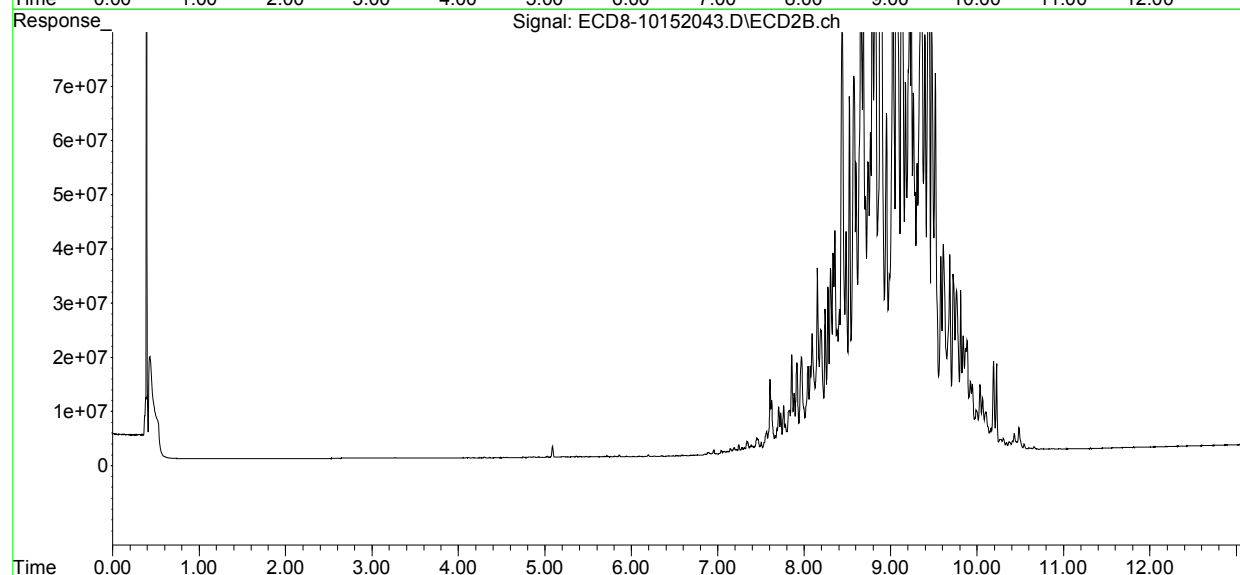
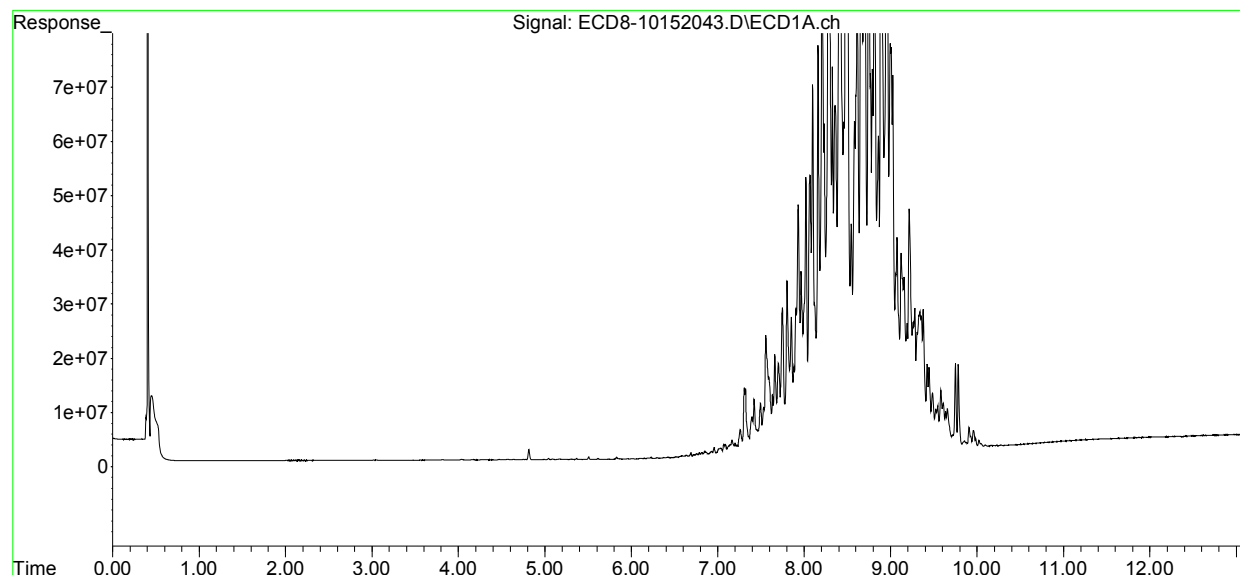
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.279	8.737	97653004	53581524	24.476	12.345 #
31)	Mirex	8.961	9.609f	145.1E6	38175088	61.250	15.500 #
32)	Chlordane...	7.701f	8.092	16781813	22214335	40.737	45.601
33)	Chlordane...	7.802	8.189f	31810920	22819927	75.892	55.120 #
34)	Chlordane...	8.359	8.891	63898589	255.8E6	495.505	1891.406 #
35)	Chlordane...	0.000	0.000	0	0	N.D.	N.D.
36)	Toxaphene...	7.802	8.441	31810920	79634590	2138.294	2095.340
37)	Toxaphene...	8.098	8.790	67923479	104.7E6	2062.120	2221.643
38)	Toxaphene...	8.418	8.823	147.3E6	151.2E6	2124.971	2149.504
39)	Toxaphene...	8.656	8.891	154.2E6	255.8E6	2072.357	2147.299
40)	Toxaphene...	8.890	9.069	130.9E6	153.5E6	2205.824	2227.970
41)	Toxaphene...	8.961	9.442	145.1E6	163.3E6	2155.225	2180.994
42)	Toxaphene...	0.000	0.000	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\REQUANT\  
Data File : ECD8-10152043.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:43  
Operator : MJB  
Sample : 0J15061-CALW  
Misc : A20F063, TOX 2000 ppb  
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:36:50 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:18:04 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Sequence Name: C:\msdchem\1\sequence\0J15061.s  
 Comment: Pesticides  
 Operator: MJB  
 Data Path: C:\MSDCHEM\1\DATA\2020-10\0J15061\  
 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	51 Conditioning Run
Datafile	ECD8-10152001
Method	ECD8_AQUPEST_190925
2) Sample	51 Conditioning Run
Datafile	ECD8-10152002
Method	ECD8_AQUPEST_190925
3) Sample	1 Hexane
Datafile	ECD8-10152003
Method	ECD8_AQUPEST_190925
4) Sample	2 0J15061-BKD1
Datafile	ECD8-10152004
Method	ECD8_AQUPEST_190925
5) Sample	3 0J15061-ICB1
Datafile	ECD8-10152005
Method	ECD8_AQUPEST_190925
6) Sample	4 0J15061-CAL1
Datafile	ECD8-10152006
Method	ECD8_AQUPEST_190925
7) Sample	5 0J15061-CAL2
Datafile	ECD8-10152007
Method	ECD8_AQUPEST_190925
8) Sample	6 0J15061-CAL3
Datafile	ECD8-10152008
Method	ECD8_AQUPEST_190925
9) Sample	7 0J15061-CAL4
Datafile	ECD8-10152009
Method	ECD8_AQUPEST_190925
10) Sample	8 0J15061-CAL5
Datafile	ECD8-10152010
Method	ECD8_AQUPEST_190925
11) Sample	9 0J15061-CAL6
Datafile	ECD8-10152011
Method	ECD8_AQUPEST_190925
12) Sample	10 0J15061-CAL7
Datafile	ECD8-10152012
Method	ECD8_AQUPEST_190925
13) Sample	11 0J15061-CAL8
Datafile	ECD8-10152013
Method	ECD8_AQUPEST_190925
14) Sample	12 0J15061-CAL9

*MJB 10/20/20*



	Datafile		ECD8-10152014
	Method		ECD8_AQUPEST_190925
15)	Sample	1	0J15061-IBL1
	Datafile		ECD8-10152015
	Method		ECD8_AQUPEST_190925
16)	Sample	13	0J15061-ICV1
	Datafile		ECD8-10152016
	Method		ECD8_AQUPEST_190925
17)	Sample	14	0J15061-CALA
	Datafile		ECD8-10152017
	Method		ECD8_AQUPEST_190925
18)	Sample	15	0J15061-CALB
	Datafile		ECD8-10152018
	Method		ECD8_AQUPEST_190925
19)	Sample	16	0J15061-CALC
	Datafile		ECD8-10152019
	Method		ECD8_AQUPEST_190925
20)	Sample	17	0J15061-CALD
	Datafile		ECD8-10152020
	Method		ECD8_AQUPEST_190925
21)	Sample	18	0J15061-CALE
	Datafile		ECD8-10152021
	Method		ECD8_AQUPEST_190925
22)	Sample	19	0J15061-CALF
	Datafile		ECD8-10152022
	Method		ECD8_AQUPEST_190925
23)	Sample	20	0J15061-CALG
	Datafile		ECD8-10152023
	Method		ECD8_AQUPEST_190925
24)	Sample	21	0J15061-CALH
	Datafile		ECD8-10152024
	Method		ECD8_AQUPEST_190925
25)	Sample	22	0J15061-CALI
	Datafile		ECD8-10152025
	Method		ECD8_AQUPEST_190925
26)	Sample	1	0J15061-IBL2
	Datafile		ECD8-10152026
	Method		ECD8_AQUPEST_190925
27)	Sample	23	0J15061-ICV2
	Datafile		ECD8-10152027
	Method		ECD8_AQUPEST_190925
28)	Sample	24	0J15061-CALJ
	Datafile		ECD8-10152028
	Method		ECD8_AQUPEST_190925
29)	Sample	25	0J15061-CALK
	Datafile		ECD8-10152029
	Method		ECD8_AQUPEST_190925
30)	Sample	26	0J15061-CALL
	Datafile		ECD8-10152030
	Method		ECD8_AQUPEST_190925
31)	Sample	27	0J15061-CALM
	Datafile		ECD8-10152031
	Method		ECD8_AQUPEST_190925
32)	Sample	28	0J15061-CALN
	Datafile		ECD8-10152032
	Method		ECD8_AQUPEST_190925

33)	Sample	29	0J15061-CALO
	Datafile		ECD8-10152033
	Method		ECD8_AQUPEST_190925
34)	Sample	30	0J15061-CALP
	Datafile		ECD8-10152034
	Method		ECD8_AQUPEST_190925
35)	Sample	1	0J15061-IBL3
	Datafile		ECD8-10152035
	Method		ECD8_AQUPEST_190925
36)	Sample	31	0J15061-ICV3
	Datafile		ECD8-10152036
	Method		ECD8_AQUPEST_190925
37)	Sample	32	0J15061-CALQ
	Datafile		ECD8-10152037
	Method		ECD8_AQUPEST_190925
38)	Sample	33	0J15061-CALR
	Datafile		ECD8-10152038
	Method		ECD8_AQUPEST_190925
39)	Sample	34	0J15061-CALS
	Datafile		ECD8-10152039
	Method		ECD8_AQUPEST_190925
40)	Sample	35	0J15061-CALT
	Datafile		ECD8-10152040
	Method		ECD8_AQUPEST_190925
41)	Sample	36	0J15061-CALU
	Datafile		ECD8-10152041
	Method		ECD8_AQUPEST_190925
42)	Sample	37	0J15061-CALV
	Datafile		ECD8-10152042
	Method		ECD8_AQUPEST_190925
43)	Sample	38	0J15061-CALW
	Datafile		ECD8-10152043
	Method		ECD8_AQUPEST_190925

Sequence Name: C:\msdchem\1\sequence\0J15061.s

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	1	0J15061-IBL4		
	Datafile		ECD8-10152044		
	Method		ECD8_AQUPEST_190925		
45)	Sample	39	0J15061-ICV4		
	Datafile		ECD8-10152045		
	Method		ECD8_AQUPEST_190925		

Pesticide BKD

**Pesticide Breakdown Check (Validated 8/8/2013)**

Sequence: 0J15061 BKD1  
Data File: ECD8-10152004.D

MJB 10/20/20

First Column Area Counts		Percent Breakdown	
DDE	14419604		
DDD	58554163		
DDT	3079360071	<b>2.31</b>	<b>PASS</b>
Endrin	1486236394	<b>14.14</b>	<b>PASS</b>
Endrin Aldehyde	117232627		
Endrin Ketone	127558941		

Second Column Area Counts		Percent Breakdown	
DDE	12286539		
DDD	61669829		
DDT	3272306813	<b>2.21</b>	<b>PASS</b>
Endrin	1512722337	<b>12.75</b>	<b>PASS</b>
Endrin Aldehyde	100892211		
Endrin Ketone	120214070		

*Breakdown must be less than 20% for Method 608. For method 8081 it must be less than 15% or within 7.5% of the breakdown prior to the most recent calibration.*

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152004.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 17:58  
 Operator : MJB  
 Sample : 0J15061-BKD1  
 Misc : A20H479  
 ALS Vial : 2 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 15 18:14:22 2020  
 Quant Method : C:\msdchem\1\methods\PestBreakdownCHK\_2010015.M  
 Quant Title : Pesticides  
 QLast Update : Fri Nov 09 13:28:51 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	R.T.	Response	Conc	Units
-----				
Target Compounds				
1) 4,4'-DDE	7.875	14419604	NoCal	ng/mL
2) Endrin	8.269	1486236394	NoCal	ng/mL
3) 4,4'-DDD	8.303	58554163	NoCal	ng/mL
4) 4,4'-DDT	8.499	3079360071	NoCal	ng/mL
5) Endrin Aldehyde	8.725	117232627	NoCal	ng/mL
6) Endrin Ketone	9.232	127558941	NoCal	ng/mL
8) 4,4'-DDE [2C]	8.321	12286539	NoCal	ng/mL
9) Endrin [2C]	8.690	1512722337	NoCal	ng/mL
10) 4,4'-DDD [2C]	8.734	61669829	NoCal	ng/mL
11) Endrin Aldehyde [2C]	9.071	100892211	NoCal	ng/mL
12) 4,4'-DDT [2C]	8.958	3272306813	NoCal	ng/mL
13) Endrin Ketone [2C]	9.656	120214070	NoCal	ng/mL
-----				

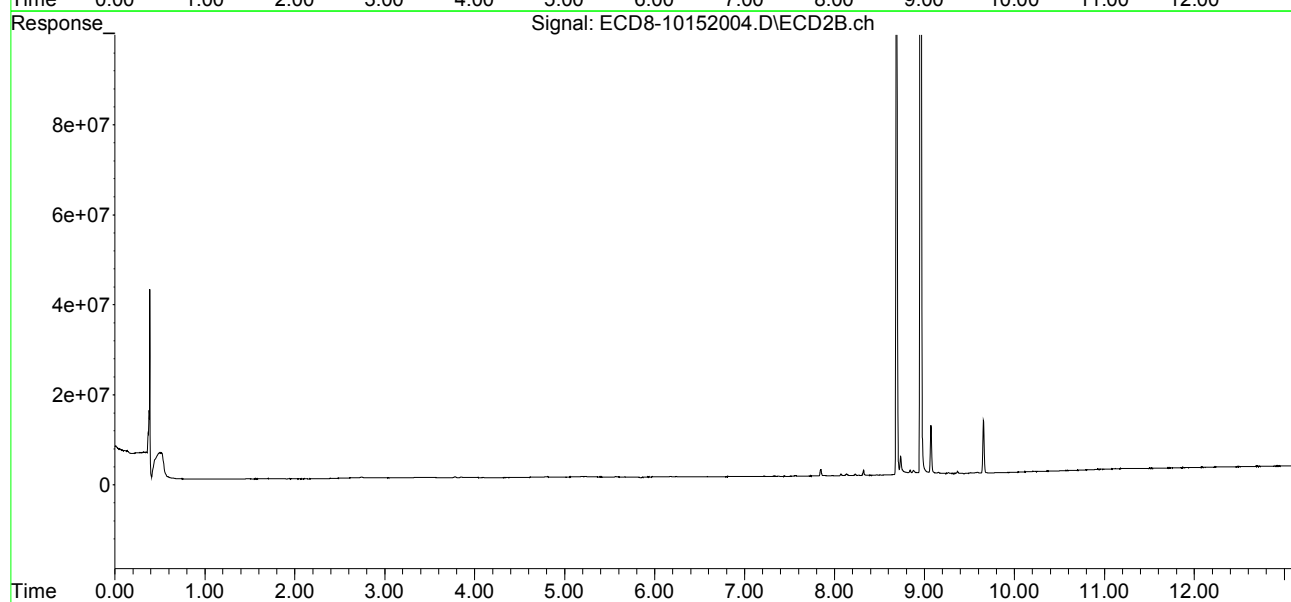
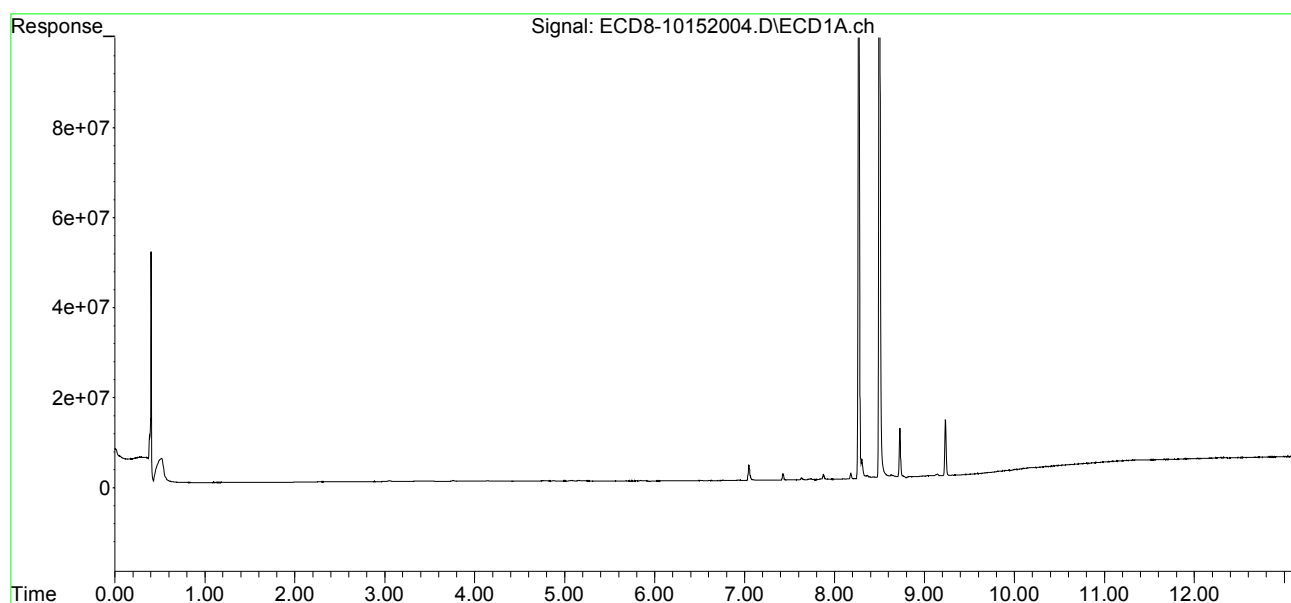
(f)=RT Delta > 1/2 Window

(m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152004.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 17:58  
Operator : MJB  
Sample : 0J15061-BKD1  
Misc : A20H479  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 15 18:14:22 2020  
Quant Method : C:\msdchem\1\methods\PestBreakdownCHK\_2010015.M  
Quant Title : Pesticides  
QLast Update : Fri Nov 09 13:28:51 2018  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152006.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:32  
 Operator : MJB  
 Sample : 0J15061-CAL1  
 Misc : A20J274, AB 0.5 ppb  
 ALS Vial : 4 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:41:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						Not used in calibration
1) S TCMX (S)	5.683	5.990	1964465	2094674	0.526	0.597
22) S DCBP (S)	9.904	10.506	1866301	1410803	0.392	0.440
Target Compounds						
2) a-BHC	6.233	6.585	2328682	2455359	0.473	0.596 #
3) g-BHC	6.521	6.901	2071350	2228225	0.468	0.575
4) b-BHC	6.608	6.970	816885	1065650	0.411	0.565 #
5) Heptachlor	6.920	7.274	2088406	2266099	0.493	0.561
6) d-BHC	6.761	7.218	1397611	1816056	0.339	0.511 #
7) Aldrin	7.163	7.538	1983865	1985635	0.455	0.534
8) Heptachlo...	7.633	7.973	1984641	2034040	0.490	0.556
9) trans-Chl...	7.727	8.112	1925594	1969558	0.465	0.532
10) cis-Chlor...	7.824	8.219	1943677	1990595	0.474	0.561
11) Endosulfa...	7.928	8.269	1806599	1819190	0.479	0.549
12) 4,4'-DDE	7.880	8.323	1488674	1588759	0.364	0.481 #
13) Dieldrin	8.101	8.467	1890452	1903893	0.447	0.518
14) Endrin	8.271	8.691	1343181	1241690	0.444	0.480
15) 4,4'-DDD	8.309	8.736	1338233	1460301	0.401	0.518 #
16) Endosulfa...	8.435	8.839	1532660	1655922	0.474	0.564
17) 4,4'-DDT	8.503	8.959	1202509	1227833	0.389	0.462
18) Endrin Al...	8.729	9.073	2173619	2196243	0.660	0.771
19) Endosulfa...	9.033	9.266	1731826	1864404	0.598	0.735
20) Methoxychlor	8.835	9.425	712510	771752	0.470	0.520
21) Endrin Ke...	9.235	9.657	2069188	7722012	0.895	4.572 #
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152006.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:32  
 Operator : MJB  
 Sample : 0J15061-CAL1  
 Misc : A20J274, AB 0.5 ppb  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:41:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

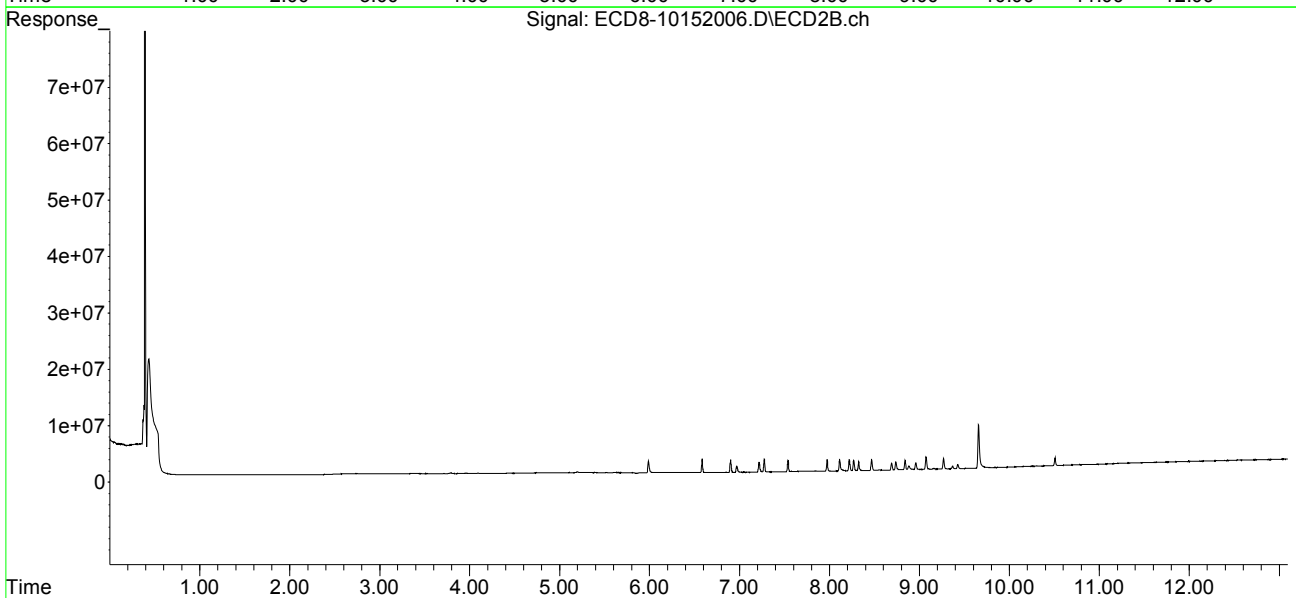
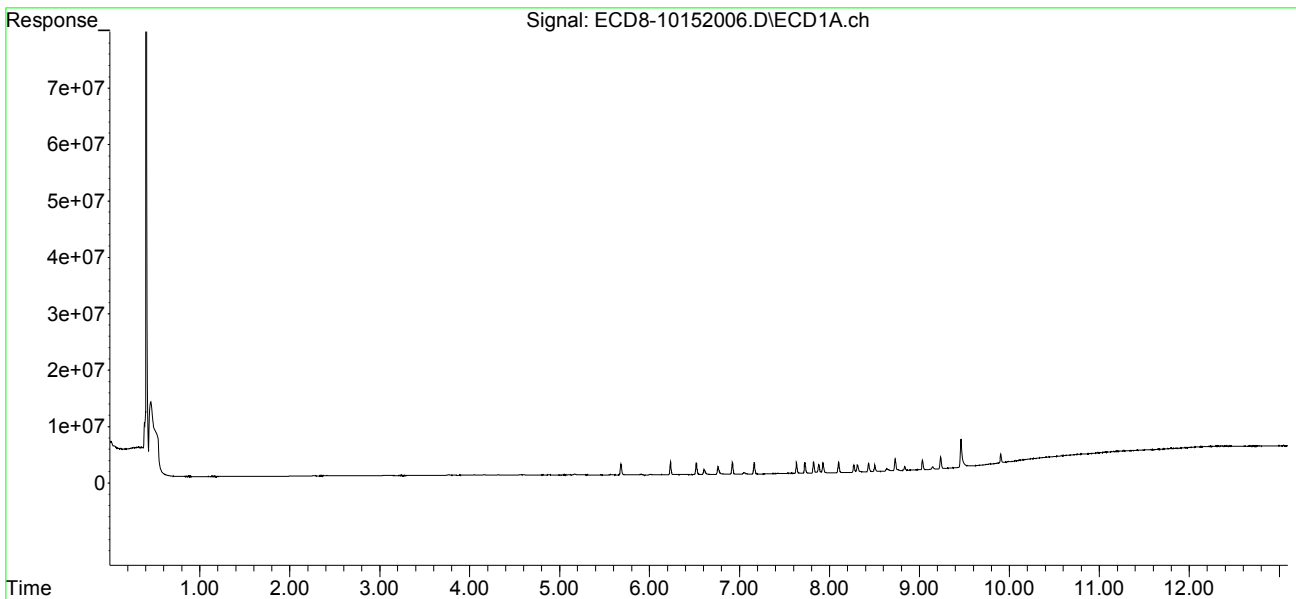
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152006.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:32  
Operator : MJB  
Sample : 0J15061-CAL1  
Misc : A20J274, AB 0.5 ppb  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:41:30 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152007.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:48  
 Operator : MJB  
 Sample : 0J15061-CAL2  
 Misc : A20J275, AB 1 ppb  
 ALS Vial : 5 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:42:51 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	3675375	3996914	0.985	1.139
22) S DCBP (S)	9.903	10.505	3197716	2586506	0.832	1.013
Target Compounds						
2) a-BHC	6.233	6.585	4586018	4866992	0.931	1.141
3) g-BHC	6.520	6.900	3906552	4265430	0.883	1.101
4) b-BHC	6.607	6.969	1540562	1994989	0.776	1.058 #
5) Heptachlor	6.919	7.273	4125267	4334823	0.974	1.103
6) d-BHC	6.760	7.217	2771438	3592643	0.672	0.978 #
7) Aldrin	7.161	7.537	3890178	3922163	0.891	1.063
8) Heptachlo...	7.632	7.972	3780245	3912347	0.934	1.069
9) trans-Chl...	7.726	8.112	3633454	3716881	0.878	1.003
10) cis-Chlor...	7.823	8.219	3710813	3697197	0.905	1.042
11) Endosulfa...	7.927	8.269	3420833	3424701	0.907	1.034
12) 4,4'-DDE	7.878	8.323	2806594	3083622	0.687	0.916 #
13) Dieldrin	8.100	8.467	3676591	3654098	0.869	0.994
14) Endrin	8.270	8.690	2564407	2521951	0.848	1.009
15) 4,4'-DDD	8.307	8.736	2561702	2804997	0.767	0.987 #
16) Endosulfa...	8.433	8.838	2928662	3080696	0.906	1.050
17) 4,4'-DDT	8.501	8.959	2340699	2447680	0.758	0.935
18) Endrin Al...	8.728	9.072	3907593	3815413	1.187	1.340
19) Endosulfa...	9.032	9.266	3157154	3258540	1.090	1.320
20) Methoxychlor	8.833	9.424	1332109	1490489	0.879	1.005
21) Endrin Ke...	9.234	9.657	3789042	4169368	1.639	2.430 #
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152007.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 18:48  
 Operator : MJB  
 Sample : 0J15061-CAL2  
 Misc : A20J275, AB 1 ppb  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:42:51 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

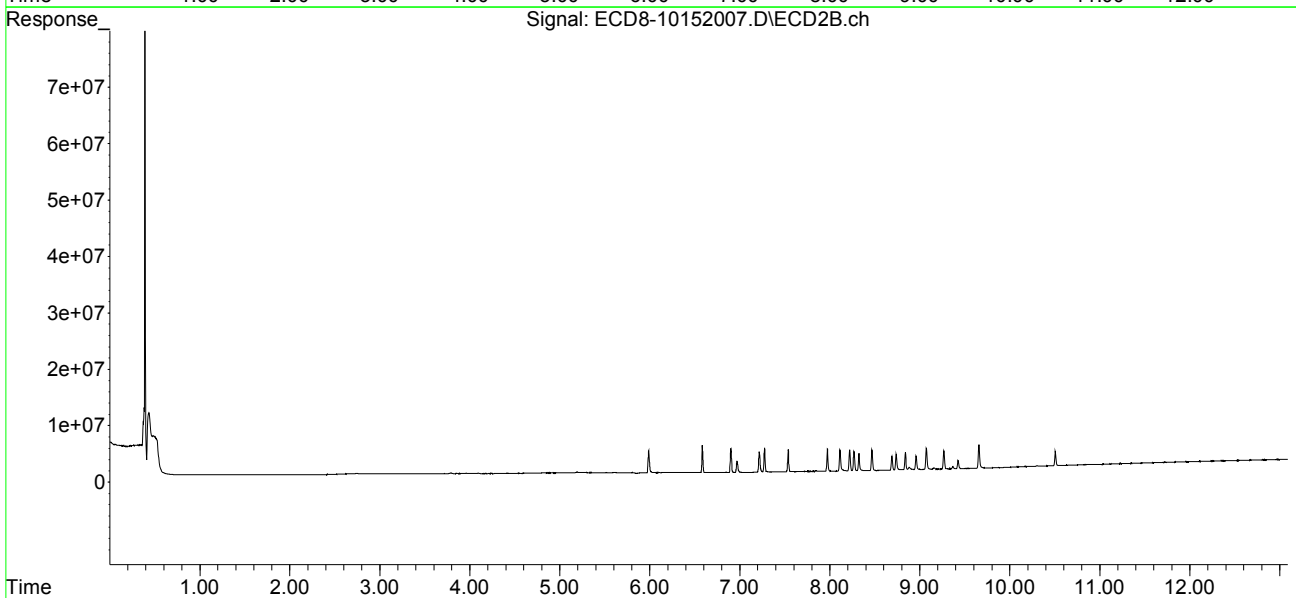
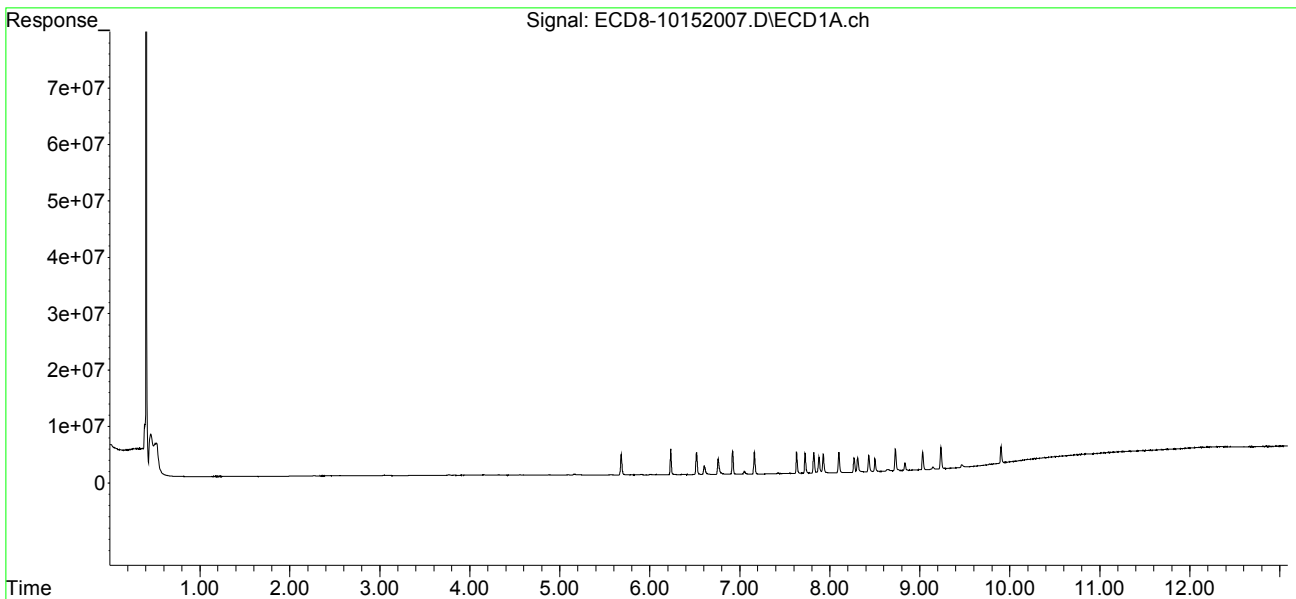
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152007.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 18:48  
Operator : MJB  
Sample : 0J15061-CAL2  
Misc : A20J275, AB 1 ppb  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:42:51 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152008.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:05  
 Operator : MJB  
 Sample : 0J15061-CAL3  
 Misc : A20H471, AB 2 ppb  
 ALS Vial : 6 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:43:34 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.990	6974987	7527988	1.869	2.145
22) S DCBP (S)	9.902	10.505	5701683	4791544	1.660	2.087 #
Target Compounds						
2) a-BHC	6.233	6.585	9063124	9584271	1.841	2.203
3) g-BHC	6.520	6.900	7694107	8481393	1.739	2.185 #
4) b-BHC	6.604	6.968	3020188	3743280	1.521	1.986 #
5) Heptachlor	6.919	7.274	7834074	8356845	1.850	2.154
6) d-BHC	6.758	7.216	5908930	7521244	1.432	2.009 #
7) Aldrin	7.162	7.536	7559480	7805224	1.732	2.120
8) Heptachlo...	7.631	7.971	7111174	7501012	1.756	2.049
9) trans-Chl...	7.725	8.111	7224345	7196150	1.746	1.942
10) cis-Chlor...	7.822	8.217	6946216	7123870	1.694	2.008
11) Endosulfa...	7.926	8.268	6845706	6450502	1.814	1.947
12) 4,4'-DDE	7.875	8.320	5832058	6467389	1.427	1.897 #
13) Dieldrin	8.099	8.466	7217877	7205936	1.707	1.959
14) Endrin	8.269	8.690	5198958	4965041	1.719	2.017
15) 4,4'-DDD	8.305	8.734	5108732	5453646	1.530	1.910
16) Endosulfa...	8.431	8.836	5775620	5953424	1.785	2.029
17) 4,4'-DDT	8.499	8.957	4776266	4865206	1.546	1.871
18) Endrin Al...	8.726	9.071	7357293	7179367	2.234	2.522
19) Endosulfa...	9.031	9.265	5905541	6267396	2.039	2.578 #
20) Methoxychlor	8.831	9.424	2713959	2917738	1.791	1.968
21) Endrin Ke...	9.233	9.655	7274419	7194544	3.147	4.255 #
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152008.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:05  
 Operator : MJB  
 Sample : 0J15061-CAL3  
 Misc : A20H471, AB 2 ppb  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:43:34 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

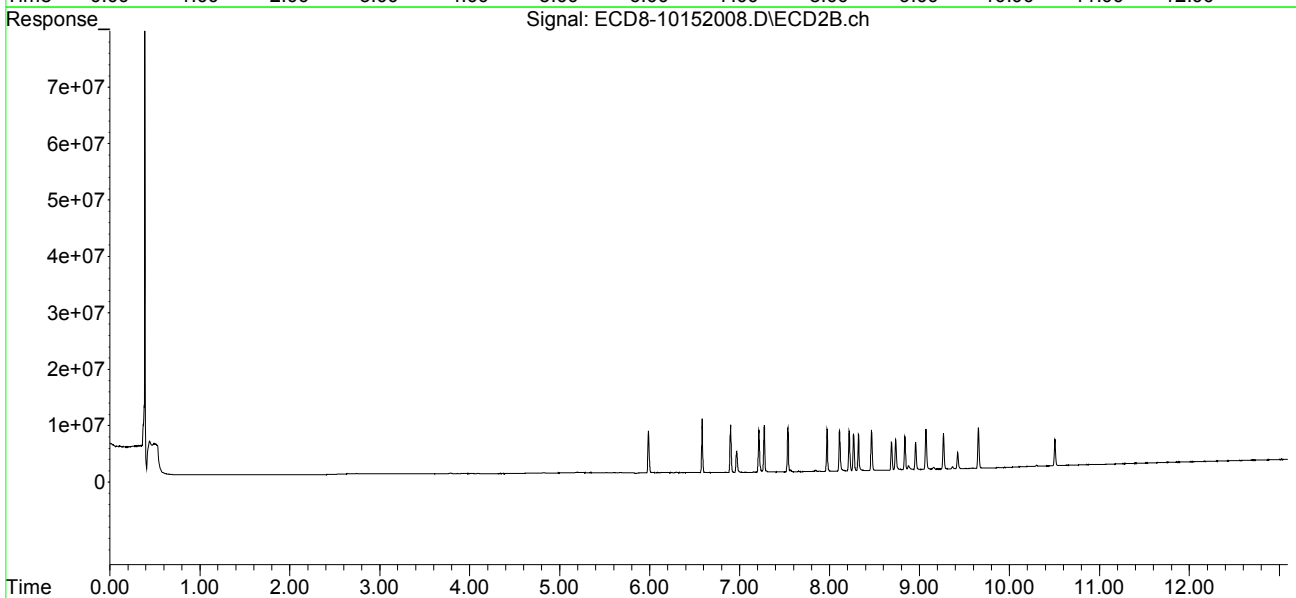
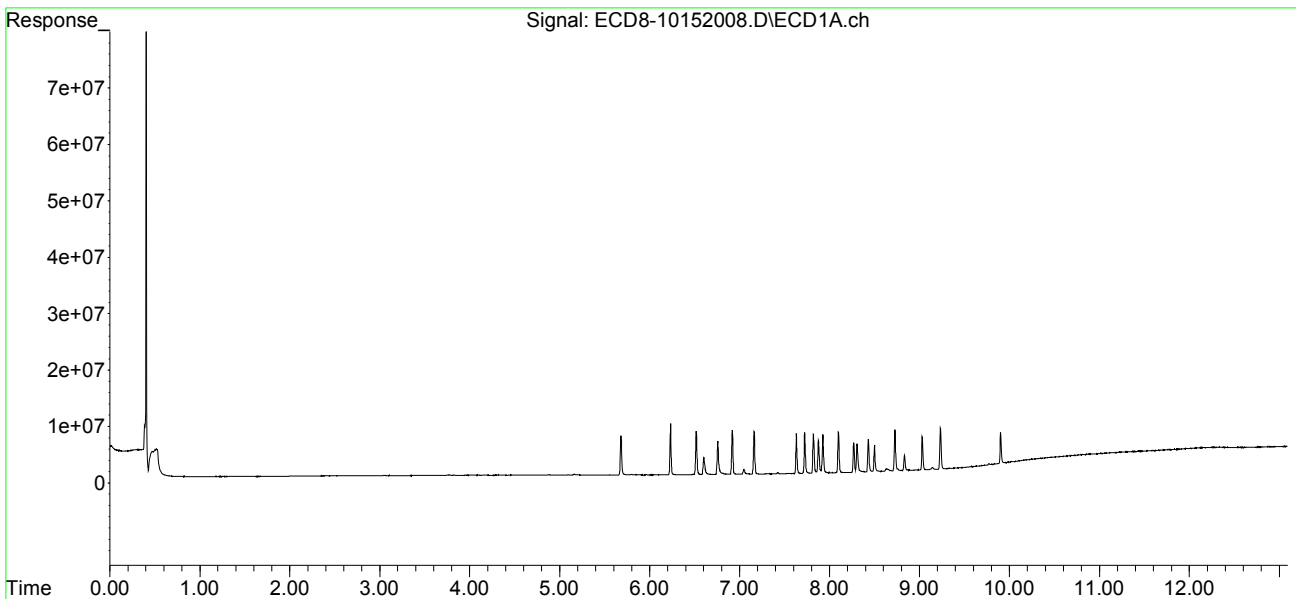
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152008.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:05  
Operator : MJB  
Sample : 0J15061-CAL3  
Misc : A20H471, AB 2 ppb  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:43:34 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152009.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:21  
 Operator : MJB  
 Sample : 0J15061-CAL4  
 Misc : A20H472, AB 5 ppb  
 ALS Vial : 7 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:44:11 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.990	16956681	18484065	4.543	5.266
22) S DCBP (S)	9.902	10.505	12863204	11283832	4.027	5.235 #
Target Compounds						
2) a-BHC	6.233	6.585	22751844	25276916	4.620	5.713
3) g-BHC	6.521	6.900	18571945	21316708	4.199	5.463 #
4) b-BHC	6.605	6.968	6967859	8823163	3.510	4.680 #
5) Heptachlor	6.920	7.274	19135941	20724830	4.520	5.366
6) d-BHC	6.759	7.216	14723164	19014583	3.569	5.008 #
7) Aldrin	7.163	7.537	19043093	19417167	4.364	5.263
8) Heptachlo...	7.633	7.971	17849960	18369288	4.408	5.018
9) trans-Chl...	7.725	8.111	17399945	18128038	4.205	4.892
10) cis-Chlor...	7.823	8.218	17370803	17821595	4.236	5.023
11) Endosulfa...	7.927	8.268	16393128	16389737	4.345	4.948
12) 4,4'-DDE	7.876	8.320	14353371	15866253	3.511	4.605 #
13) Dieldrin	8.100	8.466	18084070	18768975	4.276	5.103
14) Endrin	8.270	8.689	12643881	12382702	4.182	5.055
15) 4,4'-DDD	8.306	8.734	12317174	13730751	3.688	4.774 #
16) Endosulfa...	8.432	8.836	13817746	14467378	4.273	4.931
17) 4,4'-DDT	8.500	8.958	11690217	12754125	3.783	4.897 #
18) Endrin Al...	8.726	9.071	14781149	15071497	4.489	5.294
19) Endosulfa...	9.031	9.265	13964857	14969553	4.822	6.186 #
20) Methoxychlor	8.832	9.423	6325525	6672527	4.174	4.500
21) Endrin Ke...	9.234	9.655	18023751	17644405	7.798	10.452 #
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



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152009.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:21  
 Operator : MJB  
 Sample : 0J15061-CAL4  
 Misc : A20H472, AB 5 ppb  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:44:11 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

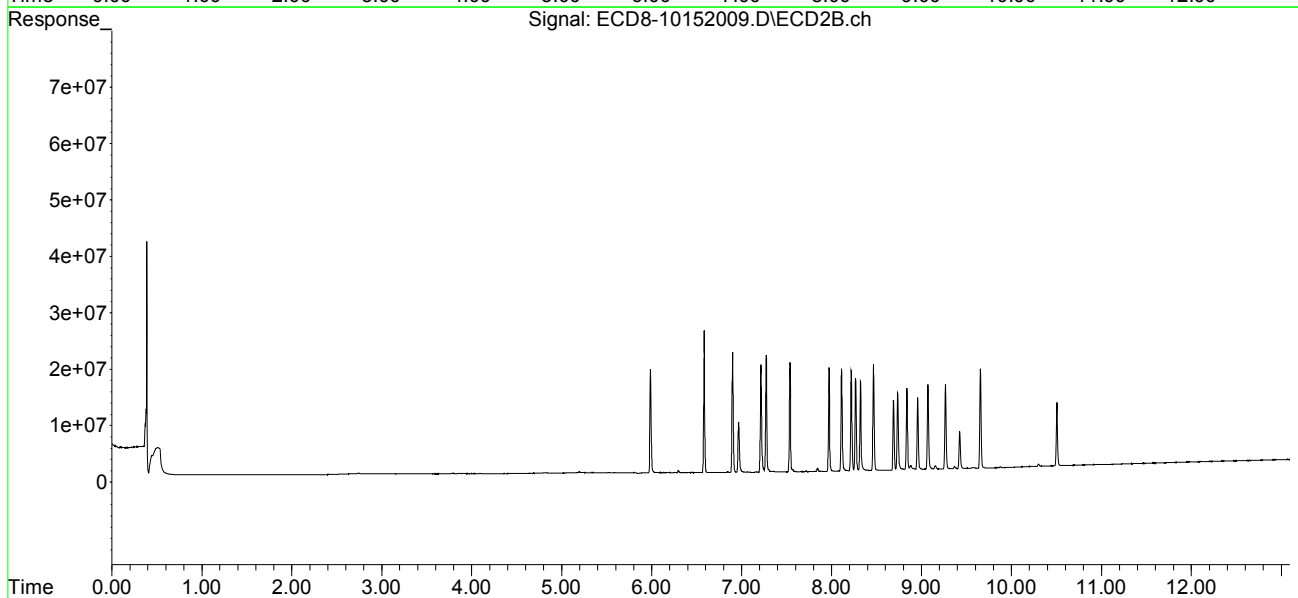
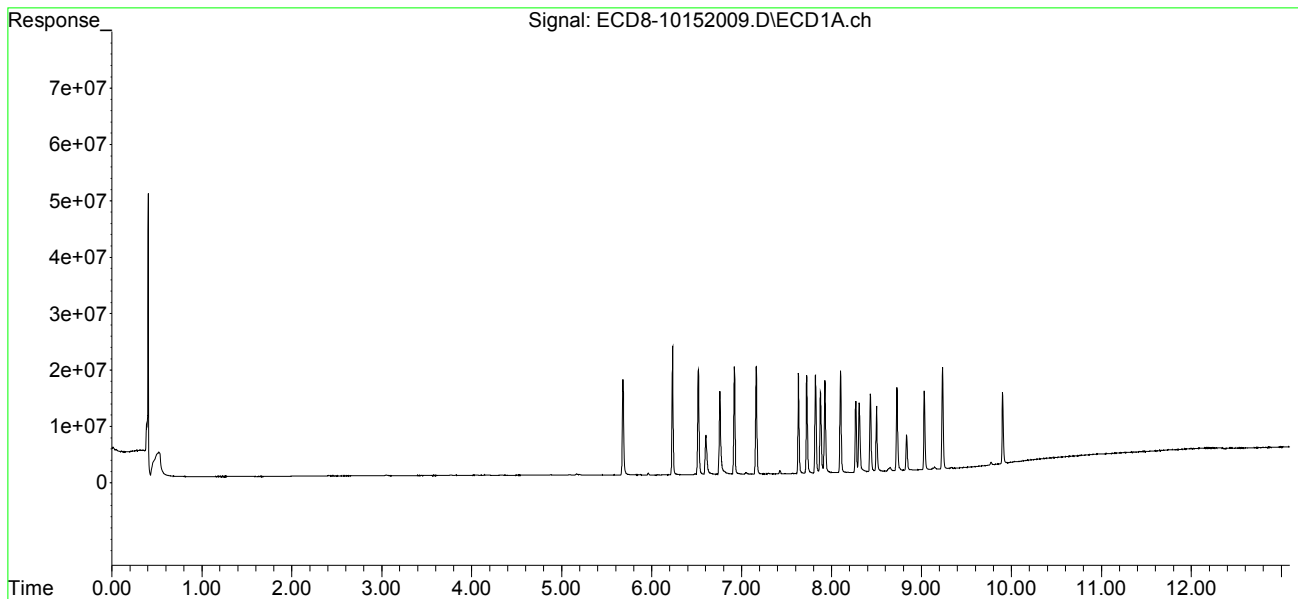
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152009.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:21  
Operator : MJB  
Sample : 0J15061-CAL4  
Misc : A20H472, AB 5 ppb  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:44:11 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152010.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:38  
 Operator : MJB  
 Sample : 0J15061-CAL5  
 Misc : A20H473, AB 10 ppb  
 ALS Vial : 8 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:44:52 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.989	33785802	37691189	9.052	10.737
22) S DCBP (S)	9.902	10.504	25663363	22219920	8.256	10.497 #
Target Compounds						
2) a-BHC	6.233	6.584	45945237	51661582	9.330	11.530
3) g-BHC	6.520	6.900	39002587	45048871	8.818	11.429 #
4) b-BHC	6.603	6.967	14251469	17799613	7.178	9.442 #
5) Heptachlor	6.919	7.273	39173115	44108090	9.252	11.354
6) d-BHC	6.757	7.215	30313826	40912398	7.349	10.648 #
7) Aldrin	7.161	7.536	39135359	41106892	8.968	11.056
8) Heptachlo...	7.631	7.971	35393917	38488002	8.740	10.514
9) trans-Chl...	7.725	8.111	35298078	37624061	8.531	10.154
10) cis-Chlor...	7.822	8.218	35411410	37266618	8.635	10.504
11) Endosulfa...	7.926	8.267	32830959	34291287	8.702	10.353
12) 4,4'-DDE	7.875	8.320	30250769	33692294	7.400	9.671 #
13) Dieldrin	8.099	8.466	37548230	38676878	8.879	10.516
14) Endrin	8.269	8.689	25971387	24972648	8.589	10.140
15) 4,4'-DDD	8.305	8.733	25608106	29438067	7.667	10.135 #
16) Endosulfa...	8.431	8.835	28511350	30118924	8.817	10.266
17) 4,4'-DDT	8.499	8.957	25096147	26962252	8.122	10.249 #
18) Endrin Al...	8.725	9.070	27881516	29477669	8.468	10.355
19) Endosulfa...	9.030	9.264	28097911	30451627	9.701	12.503 #
20) Methoxychlor	8.832	9.423	12655213	14104841	8.350	9.512
21) Endrin Ke...	9.232	9.654	35605046	36555813	15.404	21.272 #
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152010.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:38  
 Operator : MJB  
 Sample : 0J15061-CAL5  
 Misc : A20H473, AB 10 ppb  
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:44:52 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

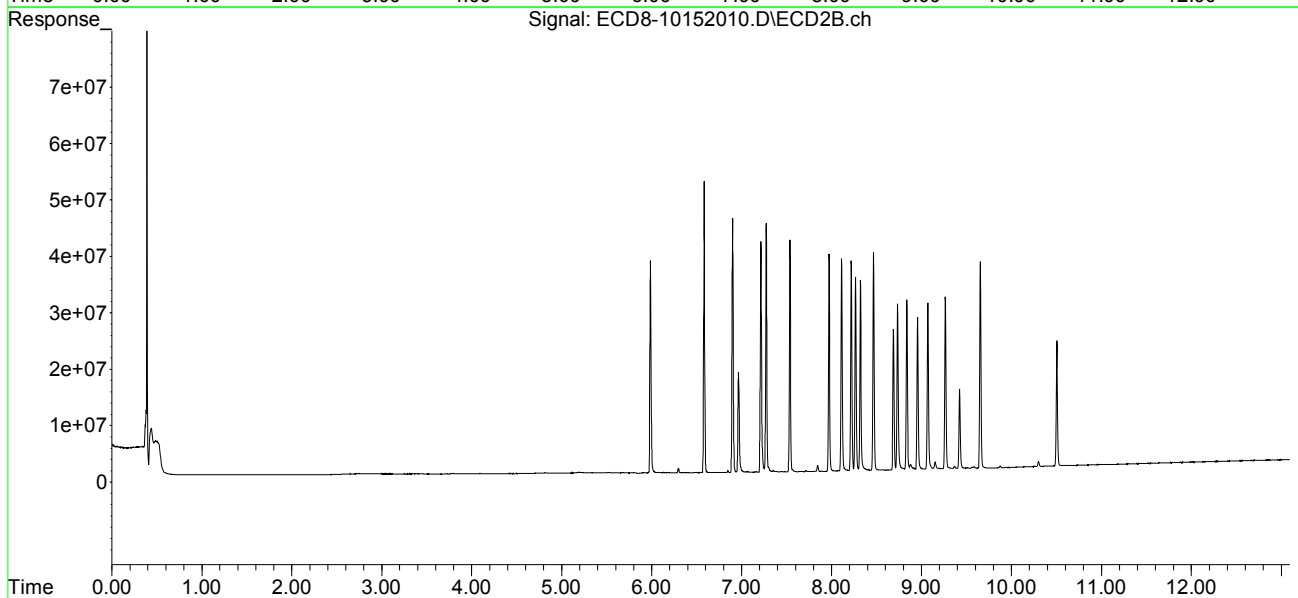
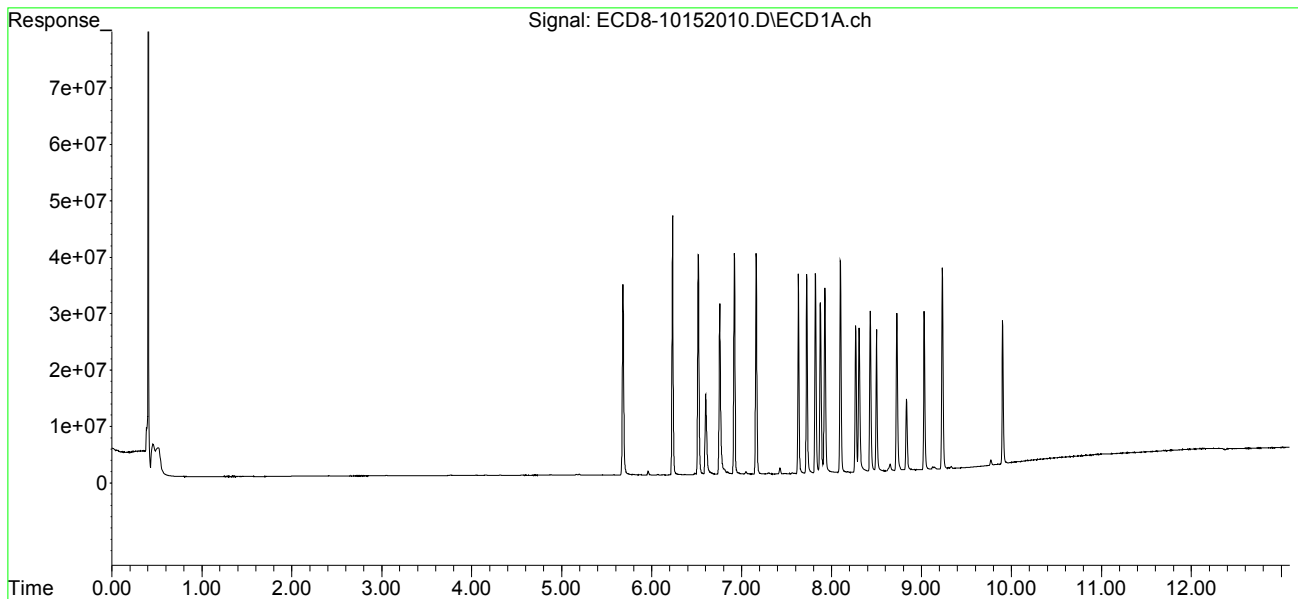
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152010.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:38  
Operator : MJB  
Sample : 0J15061-CAL5  
Misc : A20H473, AB 10 ppb  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:44:52 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152011.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:54  
 Operator : MJB  
 Sample : 0J15061-CAL6  
 Misc : A20H474, AB 25 ppb  
 ALS Vial : 9 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:45:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.682	5.989	86612386	97518197	23.205	27.780
22) S DCBP (S)	9.902	10.504	62318460	56260952	20.357	26.560 #
Target Compounds						
2) a-BHC	6.233	6.585	120.1E6	137.7E6	24.387	29.817
3) g-BHC	6.520	6.900	100.3E6	118.2E6	22.681	29.116 #
4) b-BHC	6.601	6.966	38003561	46171935	19.142	24.491 #
5) Heptachlor	6.919	7.273	101.7E6	114.2E6	24.015	28.698
6) d-BHC	6.755	7.215	82864455	109.6E6	20.089	27.749 #
7) Aldrin	7.161	7.536	97817805	109.3E6	22.416	28.644 #
8) Heptachlo...	7.631	7.971	89599740	99299787	22.126	27.125
9) trans-Chl...	7.724	8.111	91365998	97950589	22.082	26.435
10) cis-Chlor...	7.821	8.217	88782494	95308938	21.649	26.863
11) Endosulfa...	7.925	8.267	83964035	90769540	22.254	27.403
12) 4,4'-DDE	7.874	8.320	79179643	92501534	19.368	25.791 #
13) Dieldrin	8.099	8.466	93635281	103.9E6	22.141	28.239 #
14) Endrin	8.269	8.689	68701409	70747094	22.721	27.943
15) 4,4'-DDD	8.304	8.733	67884289	76853167	20.325	25.769 #
16) Endosulfa...	8.431	8.836	72694490	79168334	22.480	26.985
17) 4,4'-DDT	8.499	8.957	68705008	76033637	22.235	27.860 #
18) Endrin Al...	8.726	9.070	68571764	73274578	20.825	25.739
19) Endosulfa...	9.030	9.264	71990912	78726299	24.856	31.433 #
20) Methoxychlor	8.831	9.422	32595572	37809034	21.508	25.499
21) Endrin Ke...	9.232	9.655	88349751	93392767	38.222	51.270 #
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152011.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 19:54  
 Operator : MJB  
 Sample : 0J15061-CAL6  
 Misc : A20H474, AB 25 ppb  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:45:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

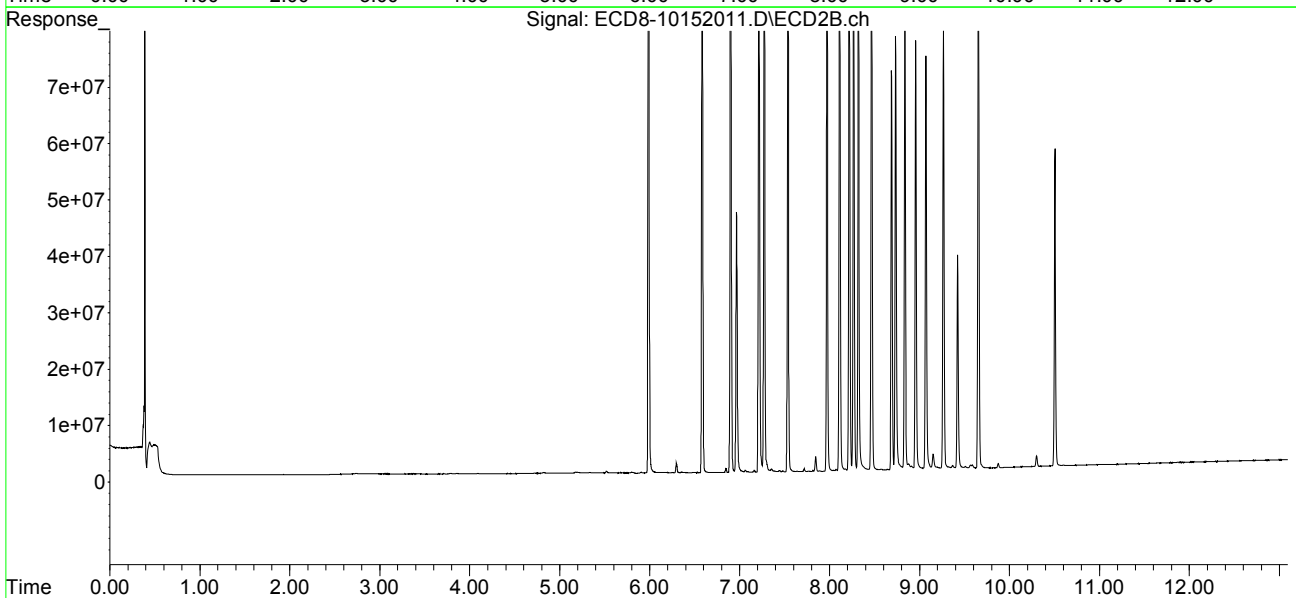
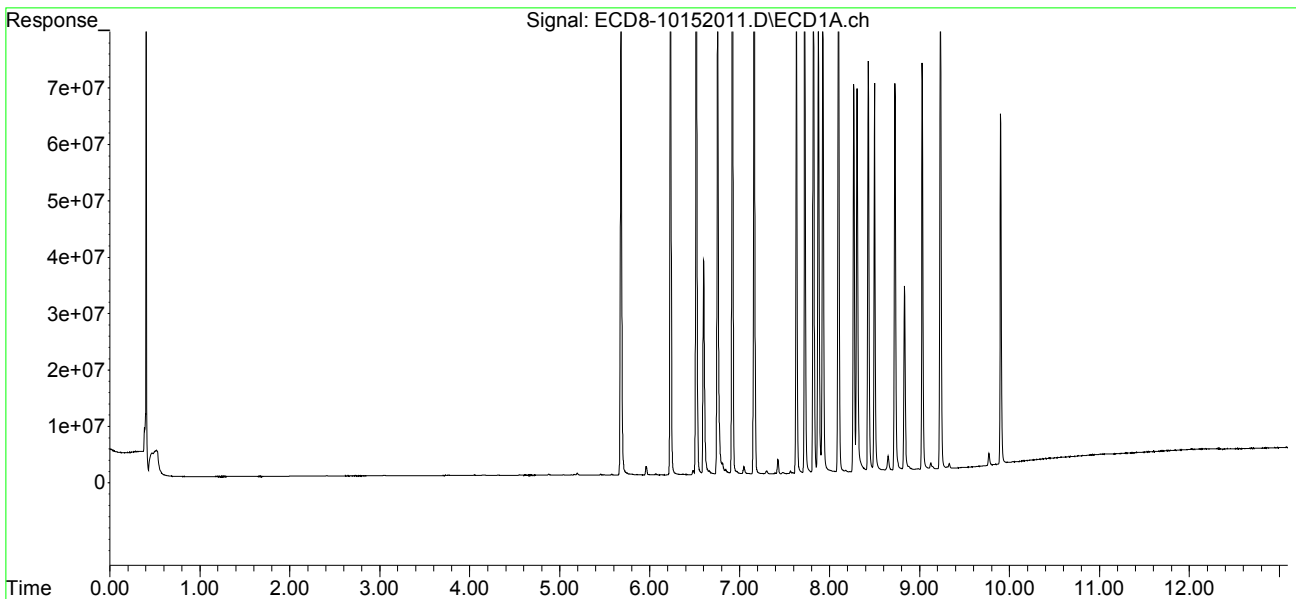
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152011.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 19:54  
Operator : MJB  
Sample : 0J15061-CAL6  
Misc : A20H474, AB 25 ppb  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:45:30 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152012.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:11  
 Operator : MJB  
 Sample : 0J15061-CAL7  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 10 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:39:40 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Thu Aug 27 10:01:10 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	171.3E6	202.3E6	45.900	57.631 #
22) S DCBP (S)	9.903	10.506	121.6E6	112.4E6	39.882	52.102 #
Target Compounds						
2) a-BHC	6.234	6.585	237.8E6	276.4E6	48.293	57.452
3) g-BHC	6.520	6.900	199.7E6	242.4E6	45.149	57.077 #
4) b-BHC	6.601	6.966	77551148	98666610	39.061	52.337 #
5) Heptachlor	6.919	7.273	197.0E6	235.2E6	46.524	56.791
6) d-BHC	6.755	7.215	170.5E6	227.1E6	41.344	55.247 #
7) Aldrin	7.162	7.537	193.9E6	228.4E6	44.430	57.471 #
8) Heptachlo...	7.631	7.971	175.7E6	201.0E6	43.389	54.920 #
9) trans-Chl...	7.723	8.110	183.0E6	206.2E6	44.234	55.656 #
10) cis-Chlor...	7.821	8.217	175.8E6	195.5E6	42.858	55.098 #
11) Endosulfa...	7.925	8.267	164.8E6	182.7E6	43.669	55.155 #
12) 4,4'-DDE	7.872	8.319	165.1E6	195.7E6	40.392	52.197 #
13) Dieldrin	8.098	8.465	187.2E6	205.8E6	44.269	55.957 #
14) Endrin	8.268	8.689	138.9E6	147.3E6	45.924	55.671
15) 4,4'-DDD	8.303	8.733	134.1E6	163.2E6	40.147	52.423 #
16) Endosulfa...	8.429	8.835	142.3E6	165.5E6	44.019	56.402 #
17) 4,4'-DDT	8.498	8.957	137.9E6	158.4E6	44.622	54.936
18) Endrin Al...	8.724	9.071	134.3E6	146.0E6	40.784	51.300 #
19) Endosulfa...	9.030	9.264	142.5E6	162.8E6	49.211	62.070 #
20) Methoxychlor	8.831	9.423	63985860	75074553	42.220	50.631
21) Endrin Ke...	9.233	9.656	178.0E6	193.2E6	77.015	97.306 #
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152012.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:11  
 Operator : MJB  
 Sample : 0J15061-CAL7  
 Misc : A20H475, AB 50 ppb  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:39:40 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Thu Aug 27 10:01:10 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

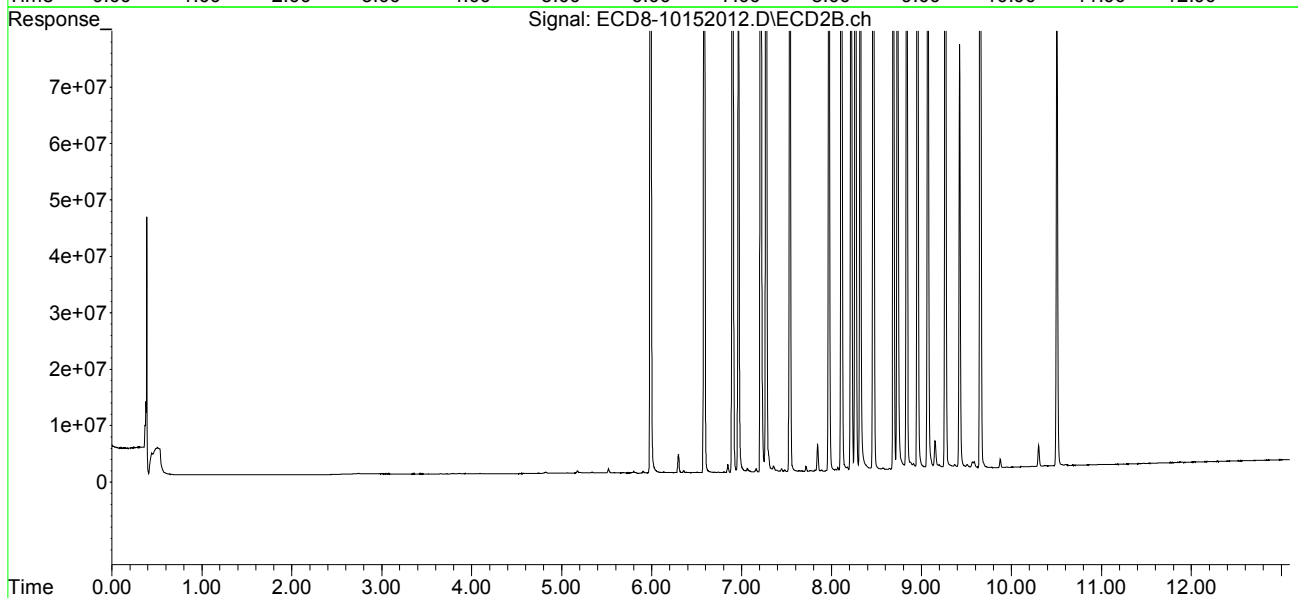
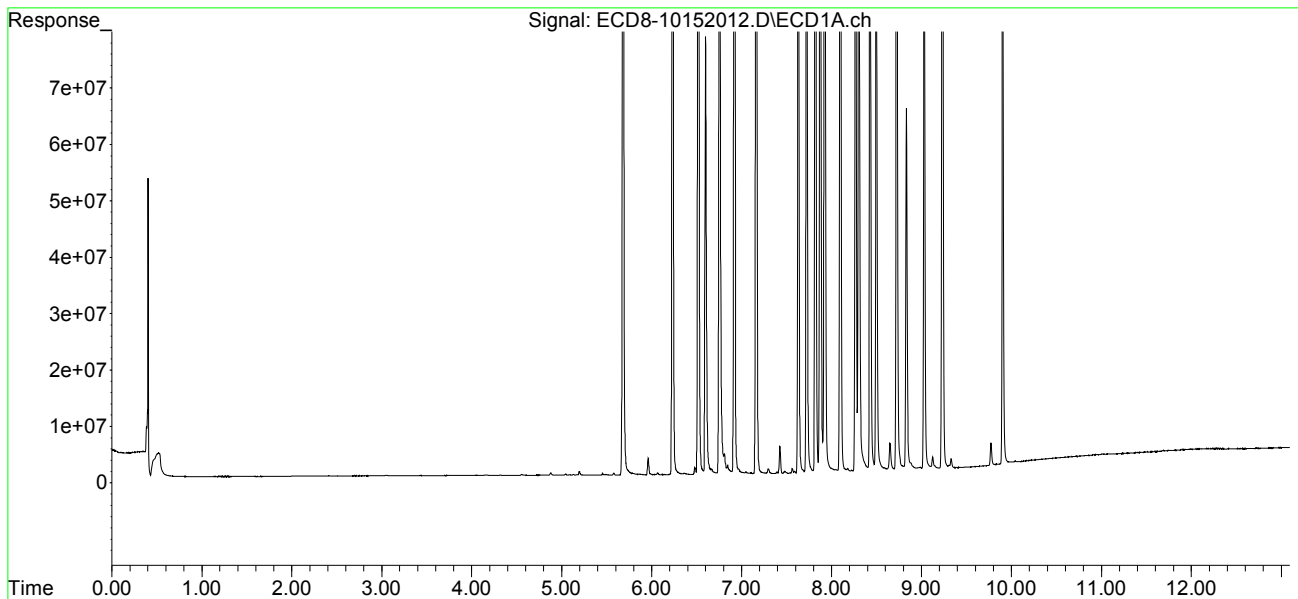
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152012.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 20:11  
Operator : MJB  
Sample : 0J15061-CAL7  
Misc : A20H475, AB 50 ppb  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:39:40 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Thu Aug 27 10:01:10 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152013.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:27  
 Operator : MJB  
 Sample : 0J15061-CAL8  
 Misc : A20H476, AB 100 ppb  
 ALS Vial : 11 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:46:13 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.990	353.9E6	425.7E6	94.829	121.275 #
22) S DCBP (S)	9.902	10.504	254.4E6	242.3E6	83.502	107.268 #
Target Compounds						
2) a-BHC	6.234	6.585	492.9E6	598.9E6	100.097	114.936
3) g-BHC	6.520	6.900	432.4E6	506.9E6	97.761	110.121
4) b-BHC	6.599	6.965	173.0E6	211.1E6	87.132	111.969 #
5) Heptachlor	6.918	7.273	425.5E6	500.4E6	100.494	112.089
6) d-BHC	6.751	7.213	384.5E6	507.6E6	93.218	114.012
7) Aldrin	7.160	7.536	415.8E6	476.9E6	95.276	111.558
8) Heptachlo...	7.629	7.970	370.1E6	442.7E6	91.392	120.934 #
9) trans-Chl...	7.722	8.110	386.7E6	449.4E6	93.464	121.271 #
10) cis-Chlor...	7.820	8.217	372.5E6	421.6E6	90.825	118.814 #
11) Endosulfa...	7.924	8.267	346.0E6	395.1E6	91.695	119.282 #
12) 4,4'-DDE	7.870	8.318	362.8E6	440.1E6	88.742	107.632
13) Dieldrin	8.098	8.465	395.8E6	459.8E6	93.595	125.023 #
14) Endrin	8.268	8.689	308.9E6	345.9E6	102.175	118.896
15) 4,4'-DDD	8.300	8.731	313.9E6	361.9E6	93.989	107.064
16) Endosulfa...	8.429	8.835	312.1E6	366.8E6	96.530	125.030 #
17) 4,4'-DDT	8.497	8.956	321.4E6	373.7E6	104.021	115.644
18) Endrin Al...	8.724	9.070	282.4E6	319.3E6	85.772	112.165 #
19) Endosulfa...	9.030	9.264	301.0E6	361.9E6	103.927	125.937
20) Methoxychlor	8.827	9.422	158.4E6	181.1E6	104.503	122.164
21) Endrin Ke...	9.232	9.656	368.2E6	418.0E6	159.289	182.429
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152013.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:27  
 Operator : MJB  
 Sample : 0J15061-CAL8  
 Misc : A20H476, AB 100 ppb  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:46:13 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

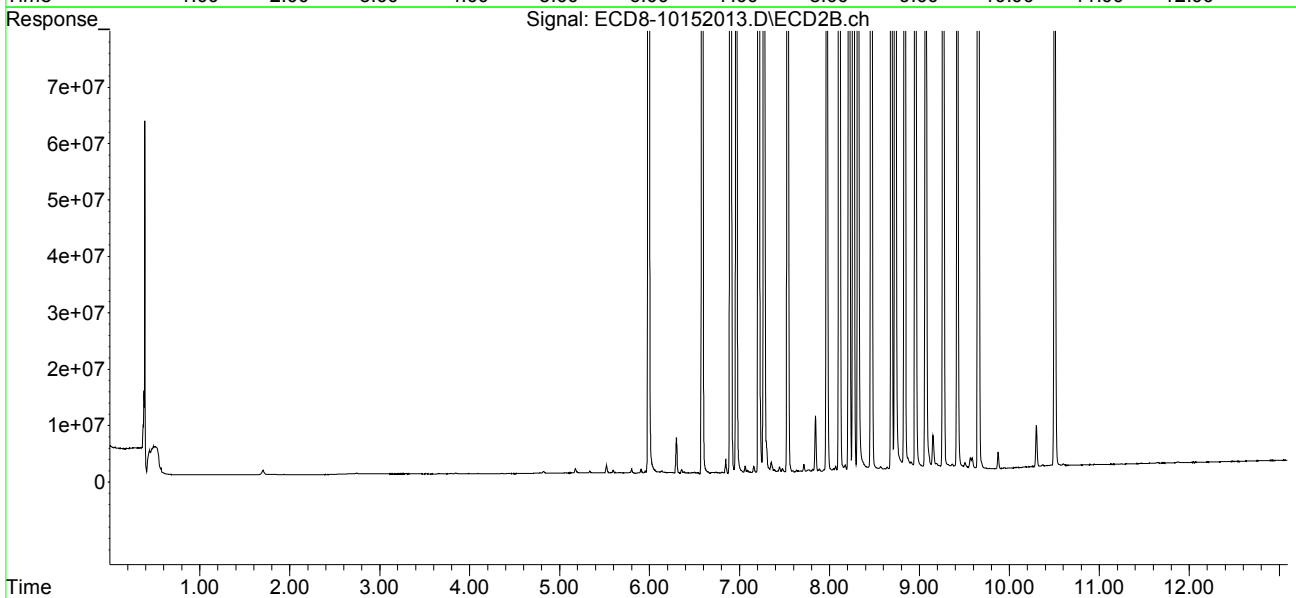
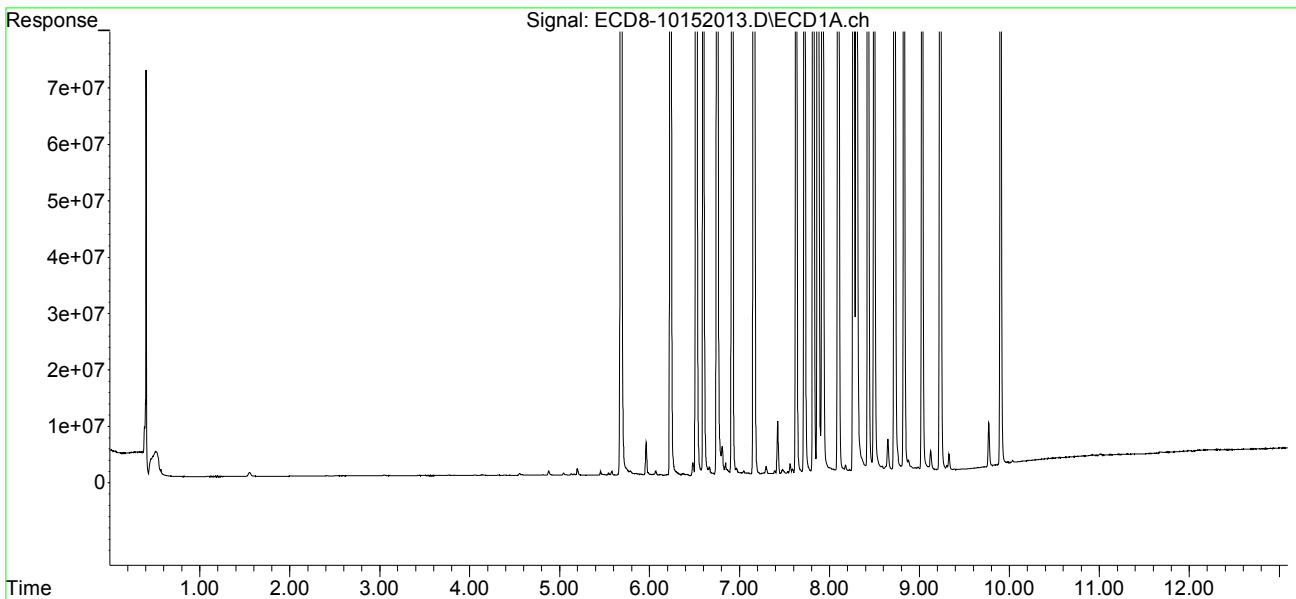
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152013.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 20:27  
Operator : MJB  
Sample : 0J15061-CAL8  
Misc : A20H476, AB 100 ppb  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:46:13 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152014.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:44  
 Operator : MJB  
 Sample : 0J15061-CAL9  
 Misc : A20H470, AB 200 ppb  
 ALS Vial : 12 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:46:44 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	5.683	5.991	707.1E6	877.5E6	189.457	249.977 #
22) S DCBP (S)	9.903	10.505	508.9E6	513.8E6	166.550	209.470 #
Target Compounds						
2) a-BHC	6.234	6.586	999.0E6	1264.9E6	202.884	214.380
3) g-BHC	6.520	6.901	875.8E6	1095.4E6	198.006	208.196
4) b-BHC	6.599	6.966	348.7E6	427.2E6	175.634	226.607 #
5) Heptachlor	6.919	7.274	860.4E6	1063.1E6	203.213	210.885
6) d-BHC	6.752	7.214	812.4E6	1082.6E6	196.939	214.883
7) Aldrin	7.161	7.537	808.8E6	985.1E6	185.336	205.344
8) Heptachlo...	7.630	7.971	738.1E6	893.9E6	182.280	244.175 #
9) trans-Chl...	7.723	8.111	771.1E6	928.7E6	186.359	250.646 #
10) cis-Chlor...	7.820	8.218	744.5E6	889.6E6	181.527	250.741 #
11) Endosulfa...	7.924	8.267	695.9E6	827.3E6	184.433	249.746 #
12) 4,4'-DDE	7.870	8.319	733.3E6	932.3E6	179.376	200.232
13) Dieldrin	8.098	8.466	785.1E6	964.7E6	185.644	262.294 #
14) Endrin	8.267	8.689	618.0E6	717.2E6	204.405	216.306
15) 4,4'-DDD	8.300	8.732	624.8E6	785.4E6	187.062	203.795
16) Endosulfa...	8.429	8.835	627.2E6	777.0E6	193.971	264.857 #
17) 4,4'-DDT	8.497	8.957	664.3E6	806.5E6	215.004	212.875
18) Endrin Al...	8.724	9.070	583.5E6	684.2E6	177.207	240.355 #
19) Endosulfa...	9.030	9.265	596.2E6	743.8E6	205.840	227.283
20) Methoxychlor	8.828	9.422	315.4E6	372.5E6	208.144	251.230
21) Endrin Ke...	9.232	9.656	755.0E6	903.6E6	326.614	322.996
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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152014.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 20:44  
 Operator : MJB  
 Sample : 0J15061-CAL9  
 Misc : A20H470, AB 200 ppb  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:46:44 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

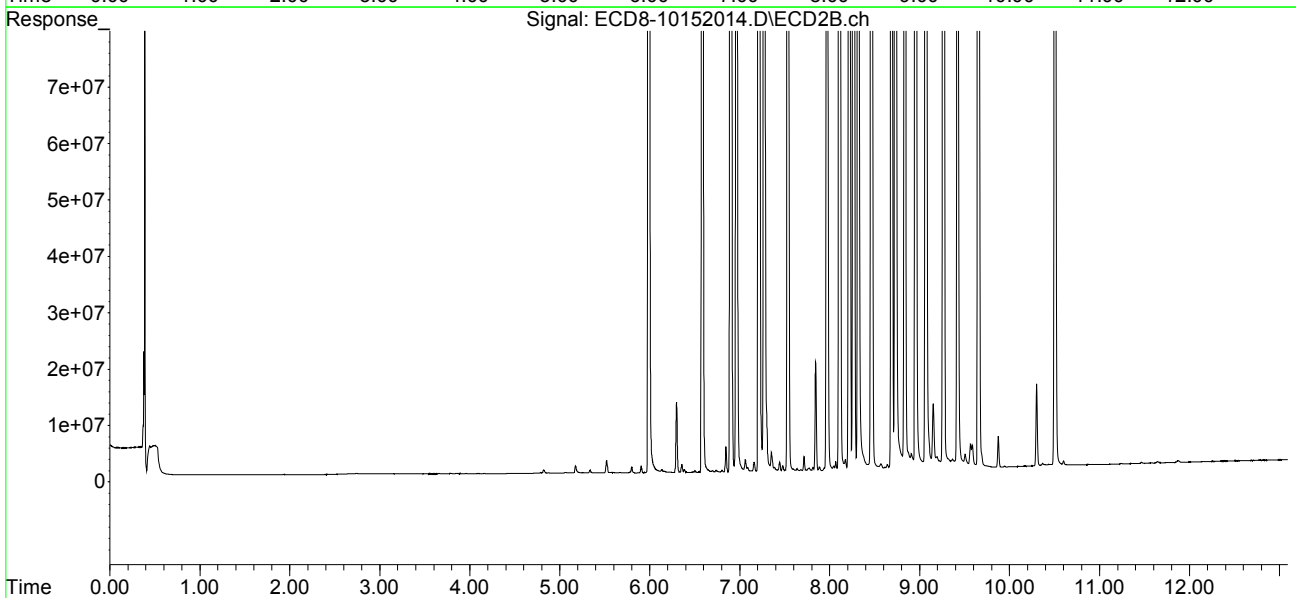
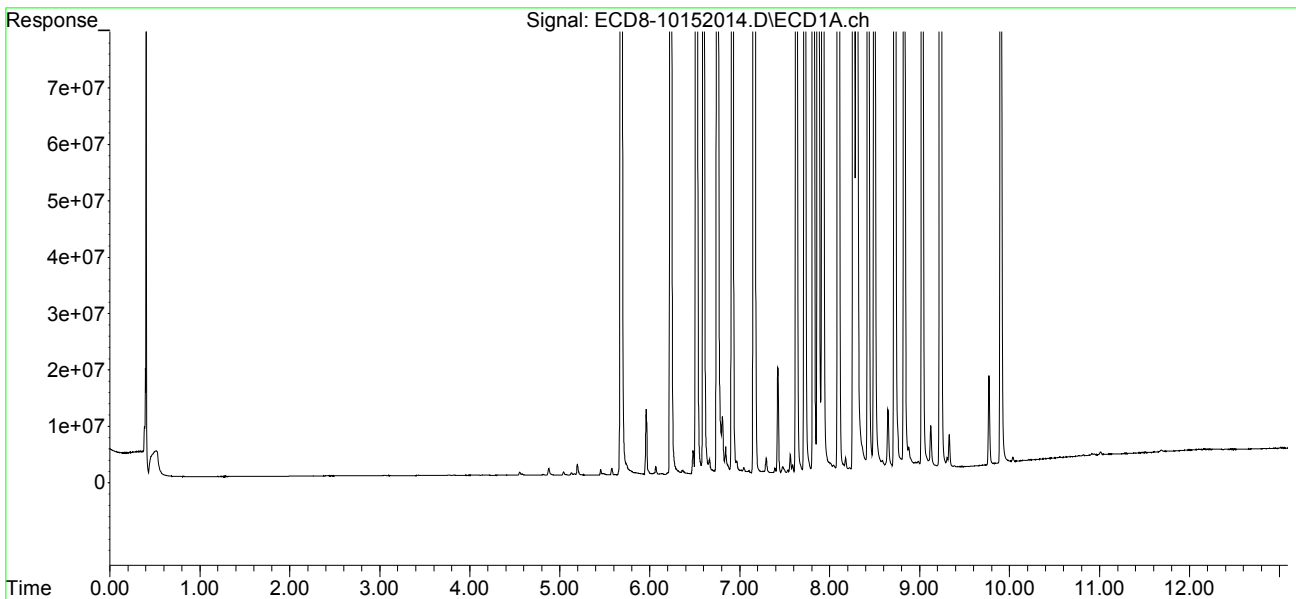
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152014.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 20:44  
Operator : MJB  
Sample : 0J15061-CAL9  
Misc : A20H470, AB 200 ppb  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:46:44 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152017.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:33  
 Operator : MJB  
 Sample : 0J15061-CALA  
 Misc : A20J276, 9-42 0.5 ppb  
 ALS Vial : 14 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:49:12 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.475	3.703	2239091	2507236	0.415	0.451
24) Hexachlor...	6.070	6.454	1970418	2349149	0.326	0.485 #
25) Oxychlorane	7.556	7.904	1937874	2061148	0.383	0.480 #
26) 2,4'-DDE	7.627	8.100	1201503	1304771	0.290	0.387 #
27) trans-Non...	7.810	8.179	2163375	2327996	0.343	0.479 #
28) 2,4'-DDD	8.006	8.471	1125210	1319106	0.309	0.467 #
29) 2,4'-DDT	8.185	8.691	1221609	1355429	0.344	0.473 #

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152017.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:33  
 Operator : MJB  
 Sample : 0J15061-CALA  
 Misc : A20J276, 9-42 0.5 ppb  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:49:12 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

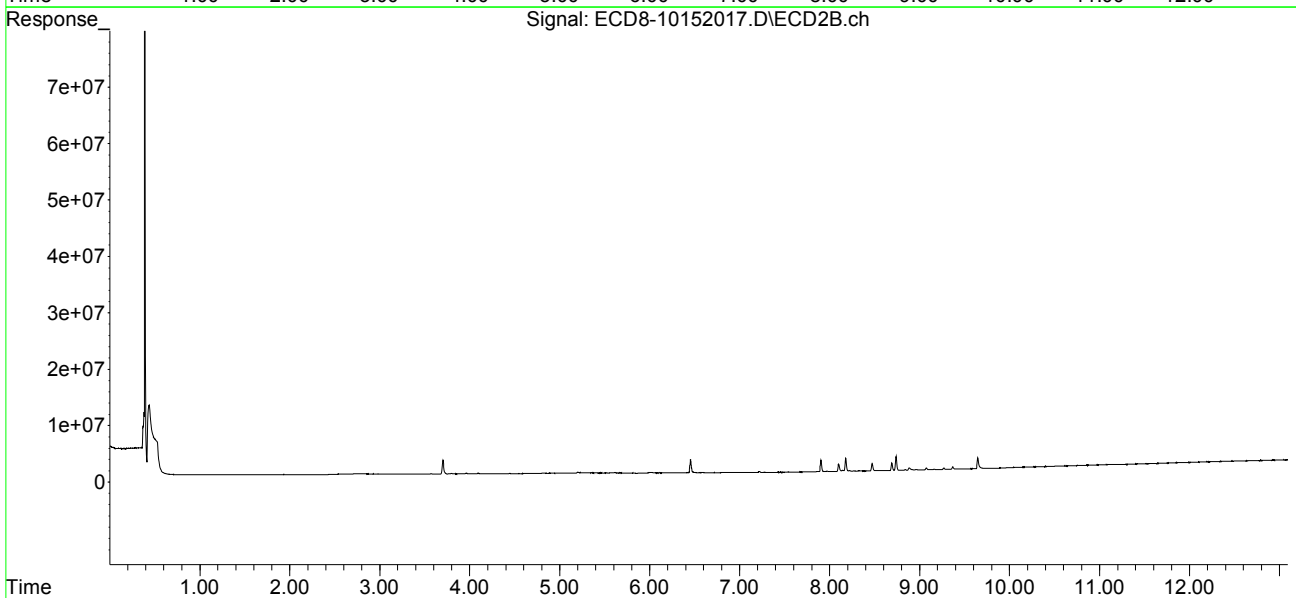
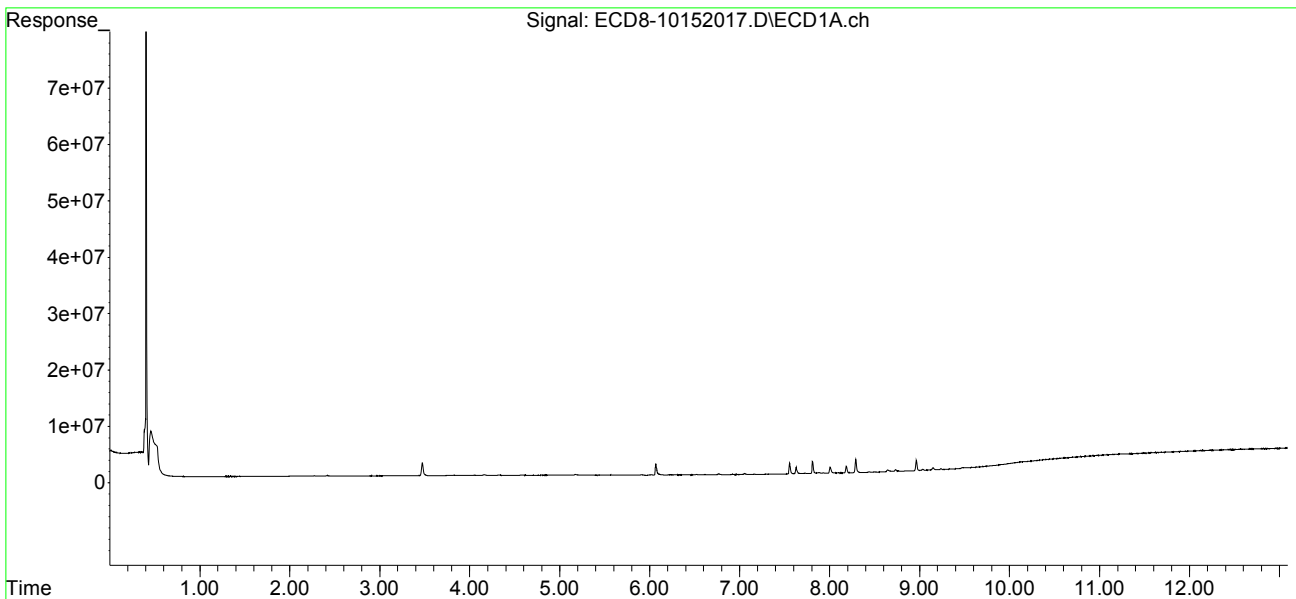
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.289	8.737	2361680	2474139	0.398	<del>0.524</del> #
31)	Mirex	8.964	9.647	1825977	1941278	0.412	0.509
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152017.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:33  
Operator : MJB  
Sample : 0J15061-CALA  
Misc : A20J276, 9-42 0.5 ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:49:12 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152018.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:50  
 Operator : MJB  
 Sample : 0J15061-CALB  
 Misc : A20I180, 9-42 1 ppb  
 ALS Vial : 15 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:49:48 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.474	3.703	3774672	4324213	0.858	0.943
24) Hexachlor...	6.070	6.454	3664461	4208870	0.804	1.050 #
25) Oxychlorane	7.555	7.903	3610716	3742926	0.872	1.065
26) 2,4'-DDE	7.626	8.099	2330761	2507932	0.732	0.933 #
27) trans-Non...	7.809	8.178	3910682	4195390	0.809	1.068 #
28) 2,4'-DDD	8.004	8.470	2191428	2545735	0.786	1.098 #
29) 2,4'-DDT	8.183	8.691	2264292	2394823	0.794	0.988

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152018.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 21:50  
 Operator : MJB  
 Sample : 0J15061-CALB  
 Misc : A20I180, 9-42 1 ppb  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:49:48 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

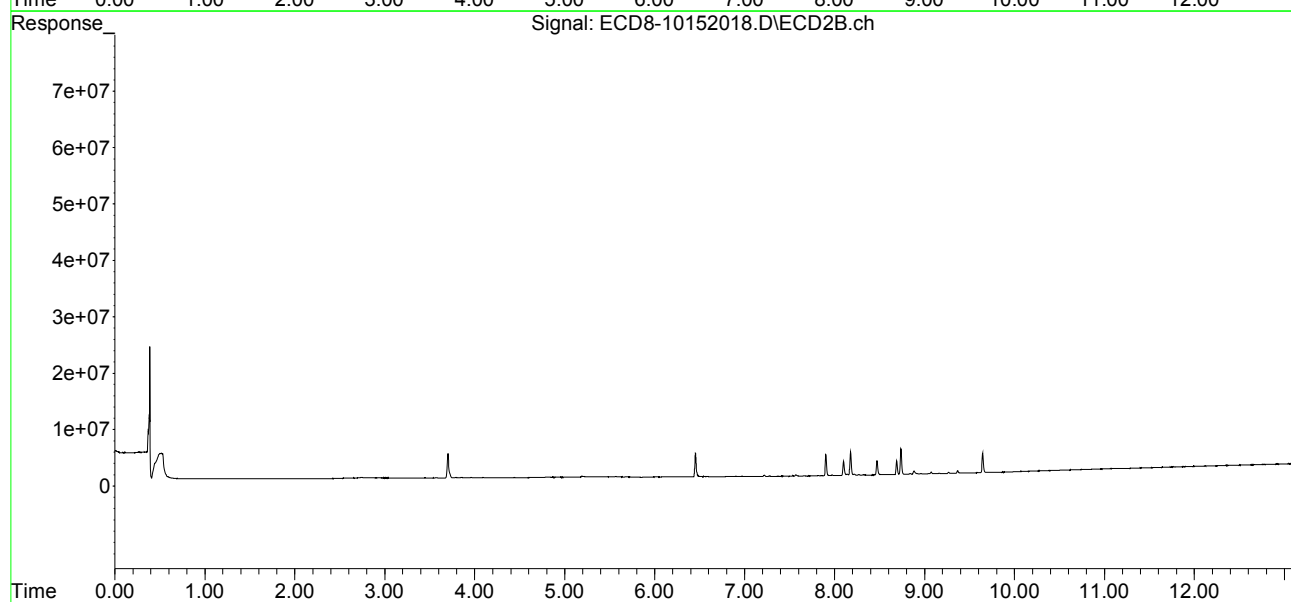
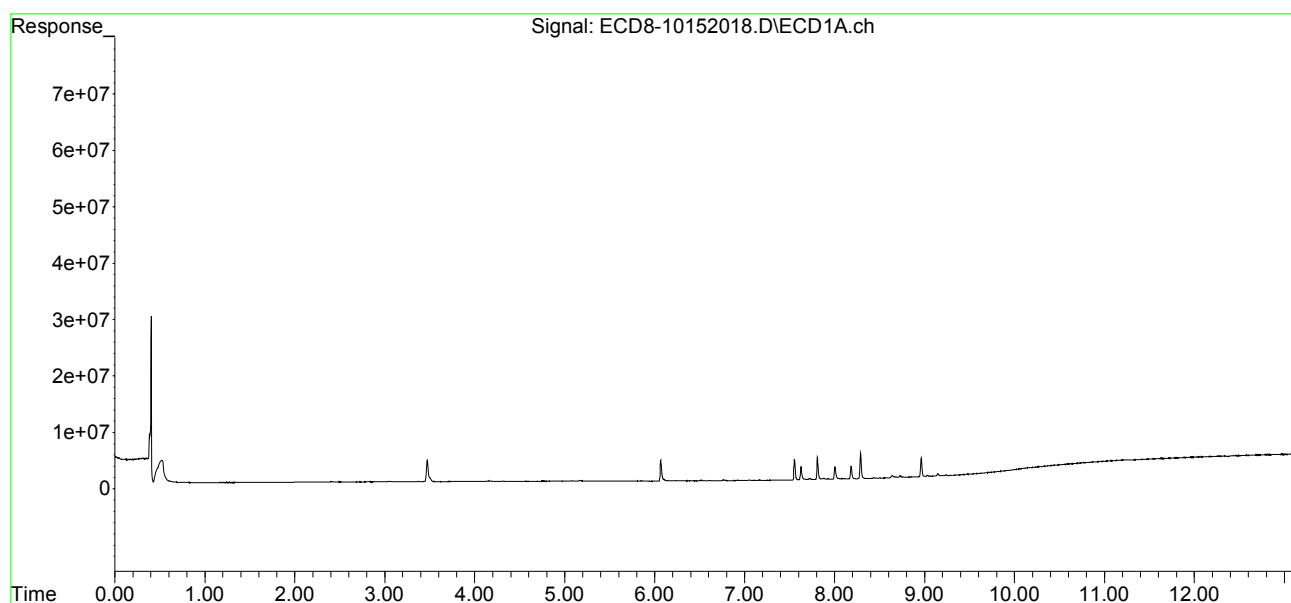
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.737	4530614	4587763	0.932	1.126
31)	Mirex	8.963	9.646	3315145	3435505	0.981	1.218
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152018.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 21:50  
Operator : MJB  
Sample : 0J15061-CALB  
Misc : A20I180, 9-42 1 ppb  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:49:48 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152019.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:06  
 Operator : MJB  
 Sample : 0J15061-CALC  
 Misc : A20I181, 9-42 2 ppb  
 ALS Vial : 16 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:50:23 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.474	3.703	7127380	8105552	1.826	1.966
24) Hexachlor...	6.069	6.453	6539006	7438773	1.615	2.030 #
25) Oxychlorane	7.554	7.903	6208420	6625326	1.633	2.066 #
26) 2,4'-DDE	7.624	8.099	3901157	4384687	1.347	1.783 #
27) trans-Non...	7.809	8.177	6858041	7161689	1.595	2.001 #
28) 2,4'-DDD	8.004	8.469	3682349	4129327	1.454	1.911 #
29) 2,4'-DDT	8.183	8.690	3742080	3988690	1.432	1.776



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152019.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:06  
 Operator : MJB  
 Sample : 0J15061-CALC  
 Misc : A20I181, 9-42 2 ppb  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:50:23 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

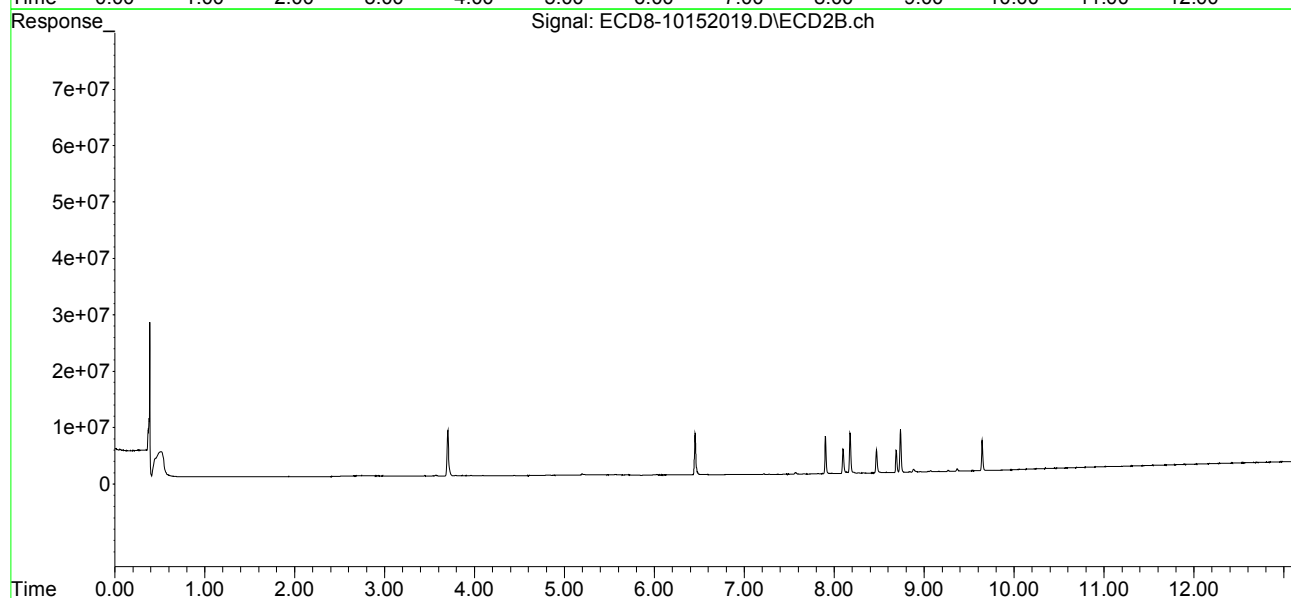
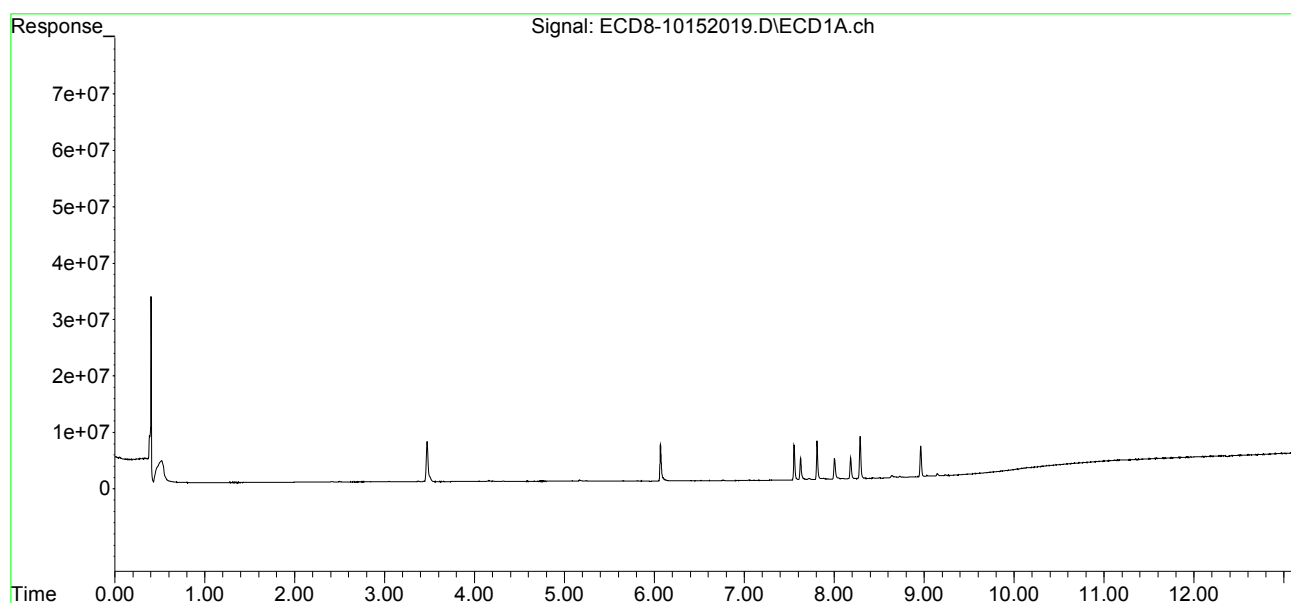
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.736	7468006	7629694	1.656	<del>1.989</del>
31)	Mirex	8.963	9.645	5444461	5403191	<del>1.796</del>	2.151
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152019.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:06  
Operator : MJB  
Sample : 0J15061-CALC  
Misc : A20I181, 9-42 2 ppb  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:50:23 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152020.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:23  
 Operator : MJB  
 Sample : 0J15061-CALD  
 Misc : A20I182, 9-42 5 ppb  
 ALS Vial : 17 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:50:54 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.474	3.702	16458450	18933435	4.519	4.884
24) Hexachlor...	6.070	6.453	15453104	17842730	4.127	5.172 #
25) Oxychlorane	7.554	7.903	15094980	15610146	4.234	5.172
26) 2,4'-DDE	7.624	8.098	9576140	10816208	3.566	4.682 #
27) trans-Non...	7.808	8.177	16788723	17453607	4.242	5.221
28) 2,4'-DDD	8.003	8.470	8751372	9938801	3.723	4.878 #
29) 2,4'-DDT	8.182	8.690	9587017	10115568	3.951	4.789

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152020.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:23  
 Operator : MJB  
 Sample : 0J15061-CALD  
 Misc : A20I182, 9-42 5 ppb  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:50:54 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

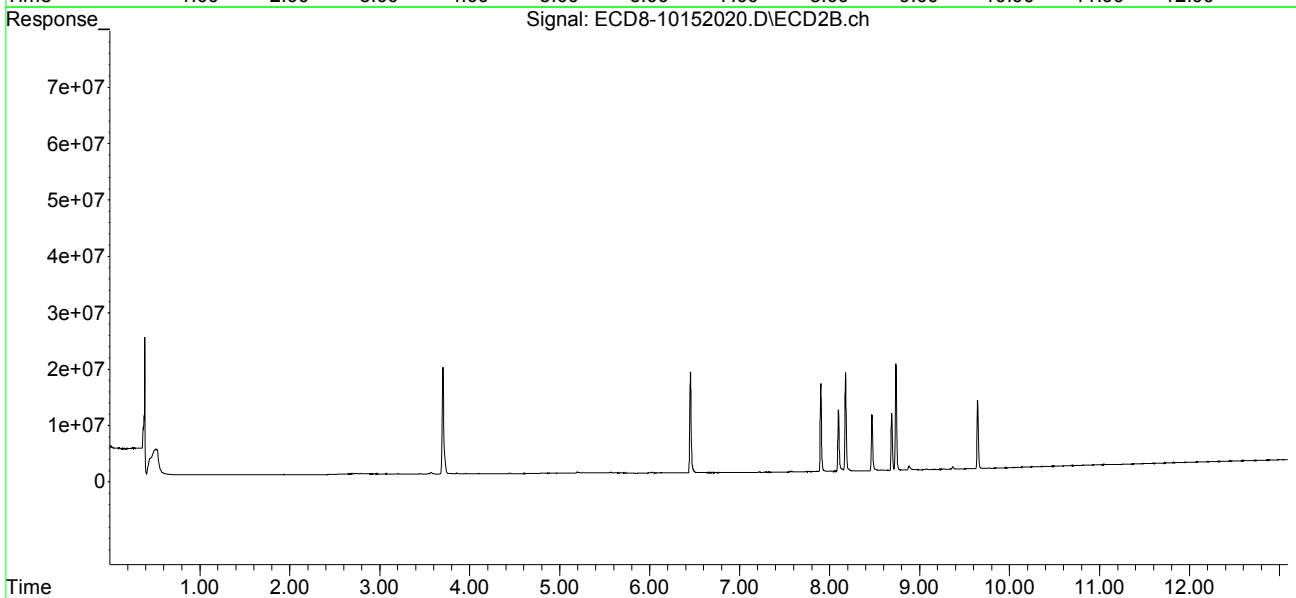
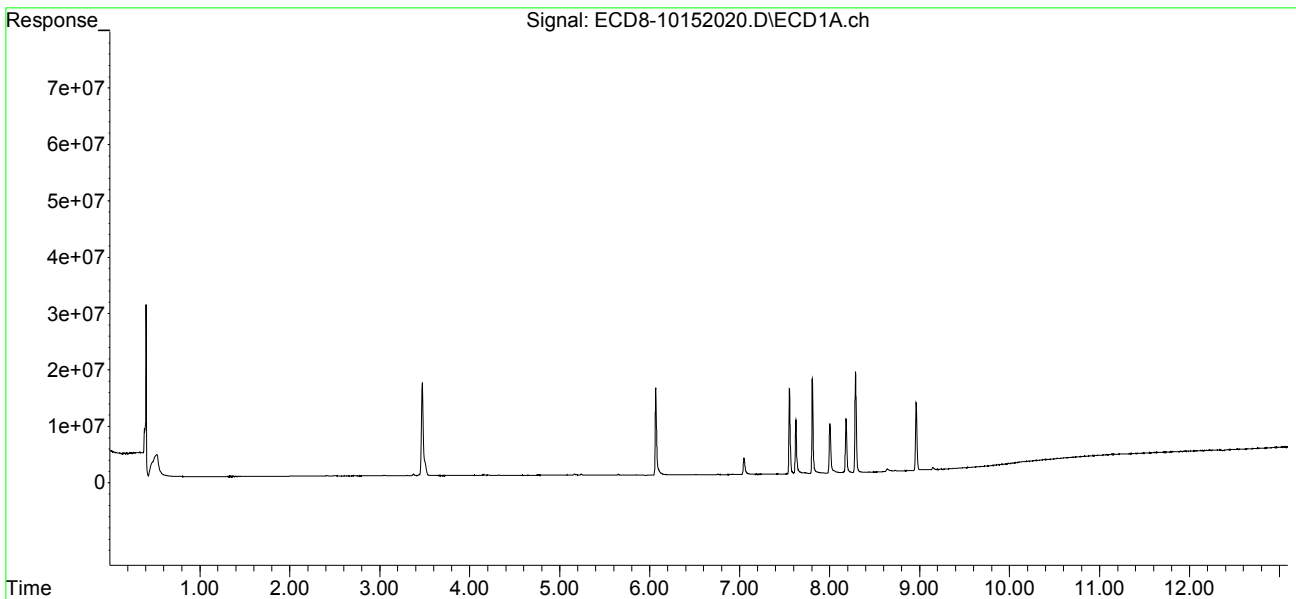
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.288	8.736	17869077	18893080	4.217	5.172
31)	Mirex	8.962	9.645	12051077	12160597	4.324	5.344
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152020.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:23  
Operator : MJB  
Sample : 0J15061-CALD  
Misc : A20I182, 9-42 5 ppb  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:50:54 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152021.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:39  
 Operator : MJB  
 Sample : 0J15061-CALE  
 Misc : A20I183, 9-42 10 ppb  
 ALS Vial : 18 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:51:25 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.475	3.703	31387777	36173041	8.827	9.493
24) Hexachlor...	6.069	6.453	31515539	36065499	8.647	10.618
25) Oxychlorane	7.554	7.903	30846461	33196377	8.845	11.189 #
26) 2,4'-DDE	7.624	8.098	20166332	22142201	7.700	9.732 #
27) trans-Non...	7.808	8.177	34482563	35712472	8.956	10.872
28) 2,4'-DDD	8.003	8.469	17648727	20436379	7.702	10.181 #
29) 2,4'-DDT	8.182	8.690	19702359	20908468	8.301	10.036

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152021.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:39  
 Operator : MJB  
 Sample : 0J15061-CALE  
 Misc : A20I183, 9-42 10 ppb  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:51:25 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

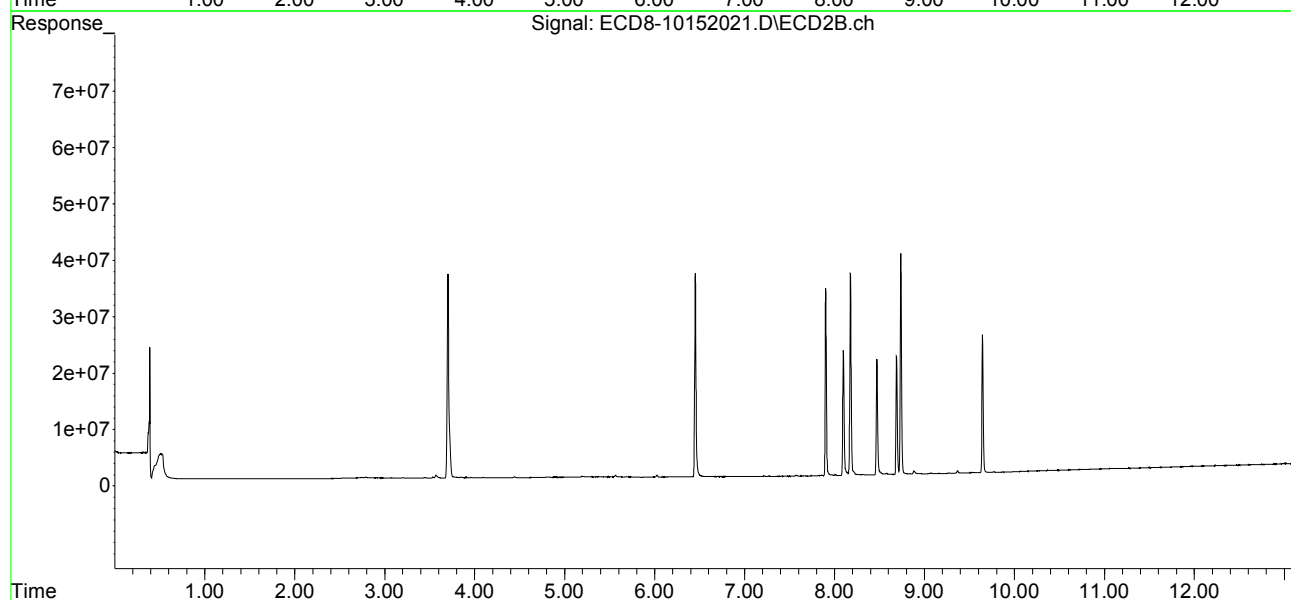
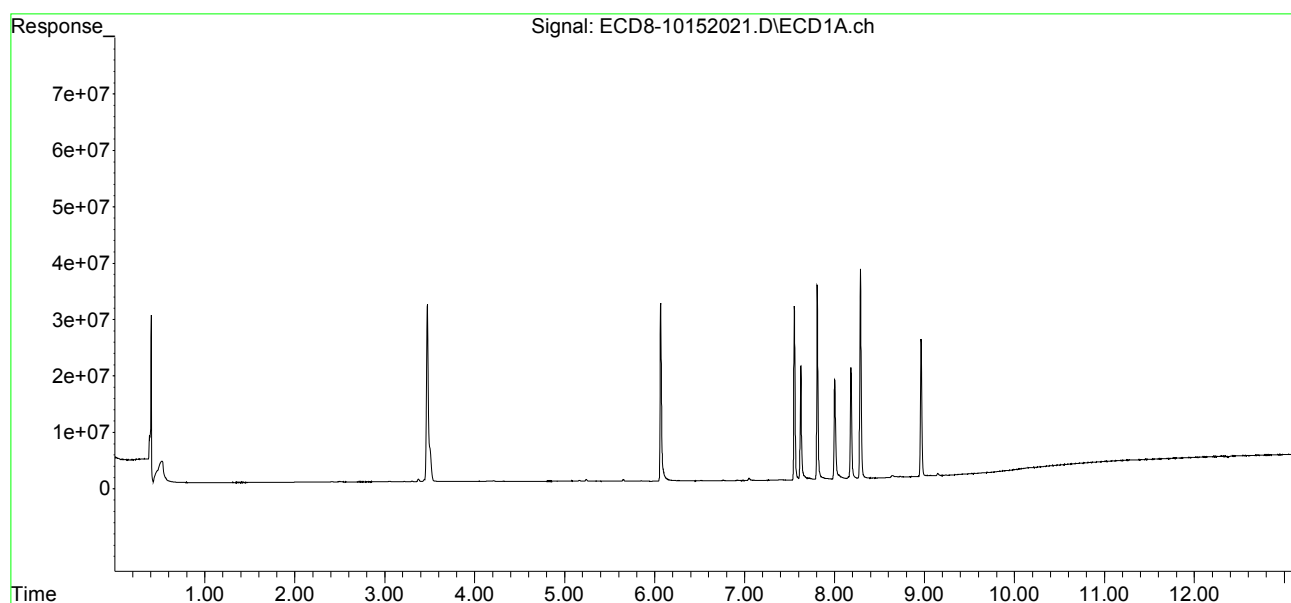
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.287	8.735	37147659	39146339	8.958	10.837
31)	Mirex	8.962	9.645	24373423	24471276	9.042	11.116
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152021.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:39  
Operator : MJB  
Sample : 0J15061-CALE  
Misc : A20I183, 9-42 10 ppb  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:51:25 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152022.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:56  
 Operator : MJB  
 Sample : 0J15061-CALF  
 Misc : A20I184, 9-42 25 ppb  
 ALS Vial : 19 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:51:54 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.475	3.703	78802280	94309654	22.503	24.728
24) Hexachlor...	6.069	6.453	79779430	94109412	22.175	27.515
25) Oxychlorane	7.553	7.902	77425998	84676703	22.482	28.363 #
26) 2,4'-DDE	7.622	8.097	52220273	59909816	20.155	26.103 #
27) trans-Non...	7.807	8.177	88005937	95054160	23.205	28.722
28) 2,4'-DDD	8.001	8.468	46590623	53380696	20.605	26.363 #
29) 2,4'-DDT	8.181	8.690	52493263	58013258	22.310	27.517

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152022.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 22:56  
 Operator : MJB  
 Sample : 0J15061-CALF  
 Misc : A20I184, 9-42 25 ppb  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:51:54 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

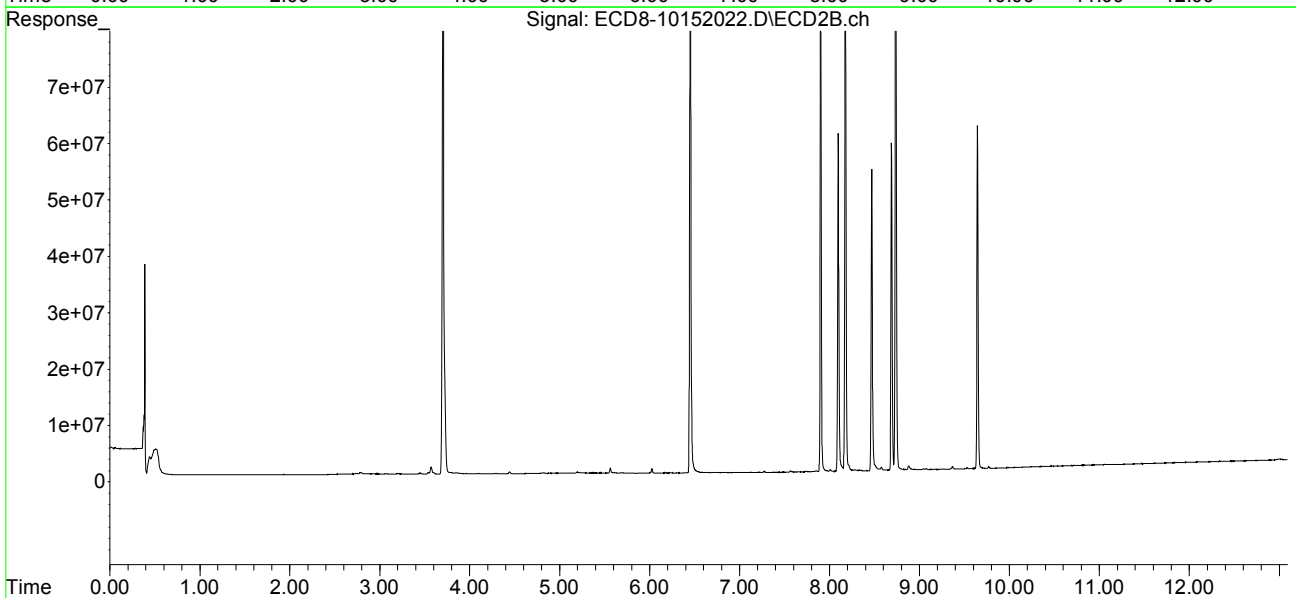
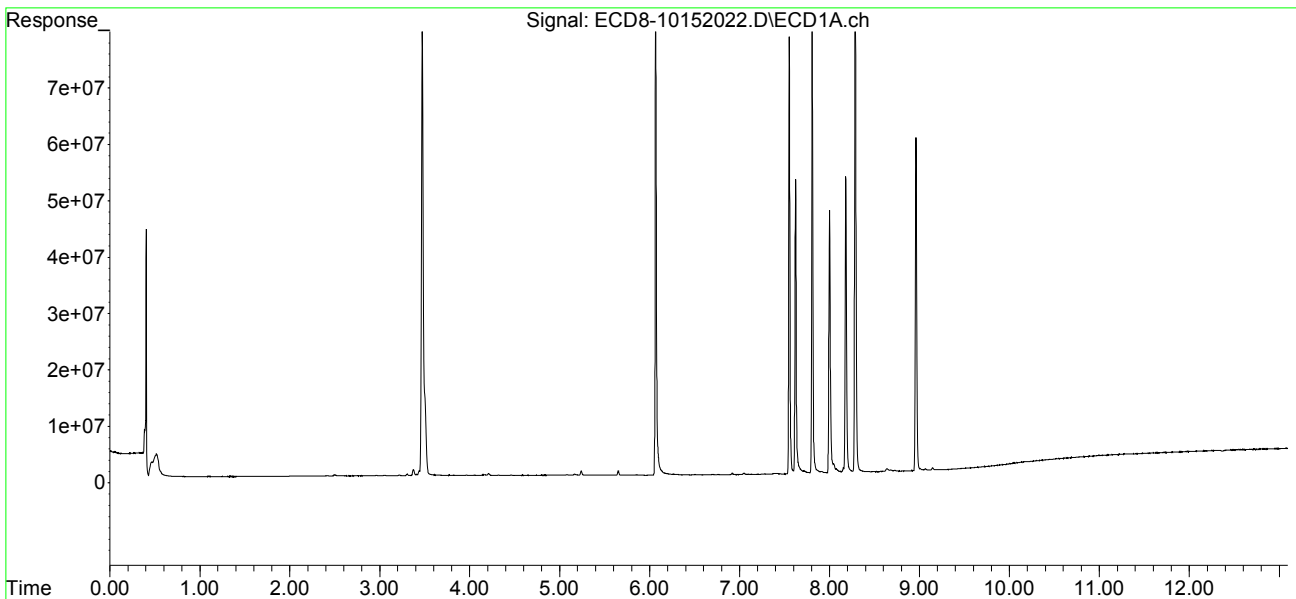
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	93575402	103.3E6	22.796	28.308
31)	Mirex	8.962	9.645	59074282	60834363	22.343	27.843
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152022.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 22:56  
Operator : MJB  
Sample : 0J15061-CALF  
Misc : A20I184, 9-42 25 ppb  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:51:54 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152023.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:12  
 Operator : MJB  
 Sample : 0J15061-CALG  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 20 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:48:18 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.474	3.702	168.1E6	209.9E6	48.244	53.740
24) Hexachlor...	6.069	6.453	159.6E6	193.4E6	44.360	55.016
25) Oxychlorane	7.553	7.902	149.6E6	170.3E6	43.615	55.624 #
26) 2,4'-DDE	7.621	8.096	103.4E6	117.8E6	39.856	49.944 #
27) trans-Non...	7.807	8.176	169.1E6	188.6E6	44.748	55.449
28) 2,4'-DDD	8.000	8.467	89007702	107.8E6	39.412	51.730 #
29) 2,4'-DDT	8.180	8.689	108.2E6	120.3E6	45.787	55.162

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152023.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:12  
 Operator : MJB  
 Sample : 0J15061-CALG  
 Misc : A20I185, 9-42 50 ppb  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:48:18 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:40:53 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

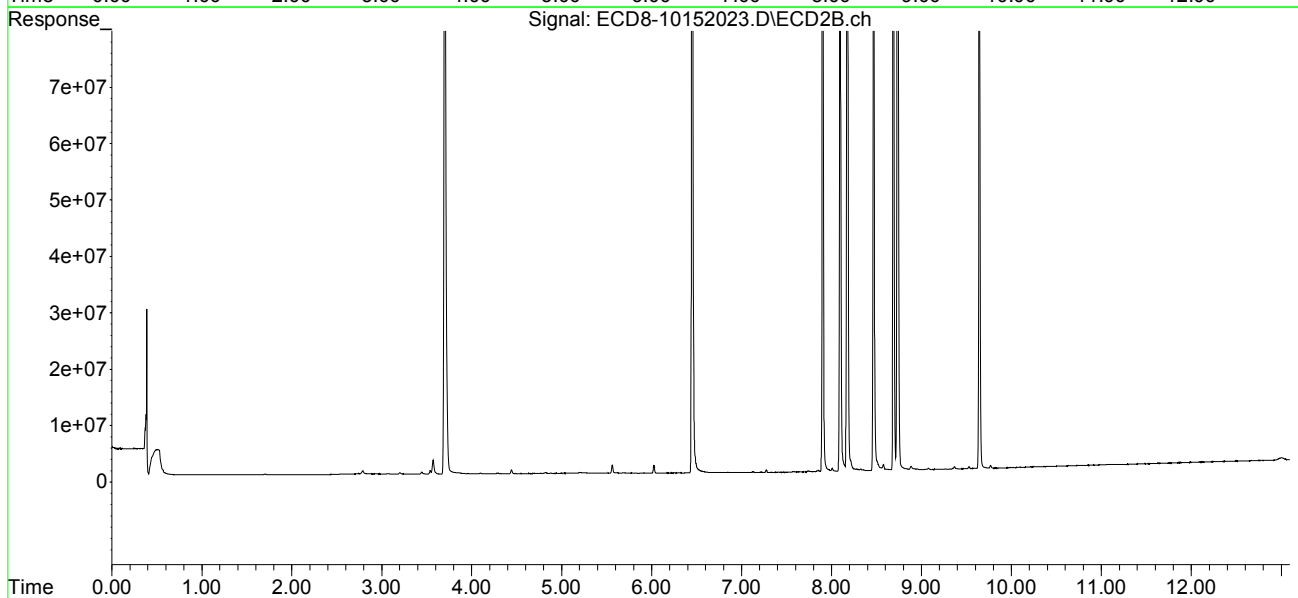
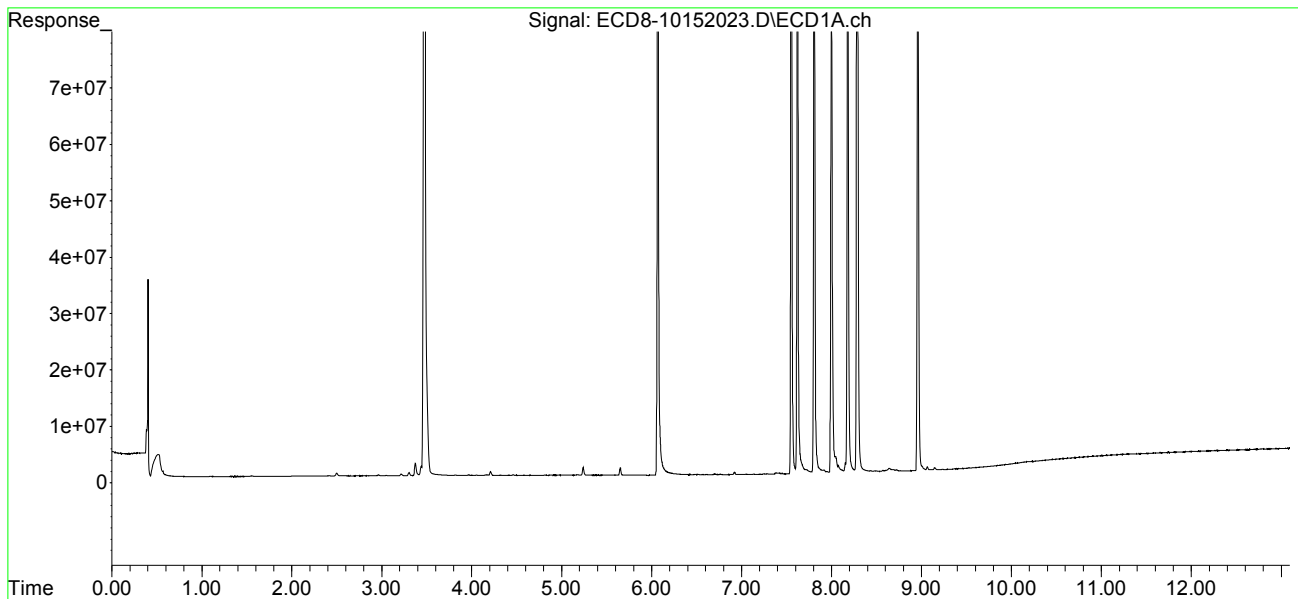
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.286	8.735	183.9E6	208.4E6	44.837	55.574
31)	Mirex	8.960	9.644	113.0E6	123.5E6	43.077	55.622 #
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152023.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 23:12  
Operator : MJB  
Sample : 0J15061-CALG  
Misc : A20I185, 9-42 50 ppb  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:48:18 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:40:53 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152024.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:29  
 Operator : MJB  
 Sample : 0J15061-CALH  
 Misc : A20I186, 9-42 100 ppb  
 ALS Vial : 21 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:52:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.475	3.703	320.7E6	403.4E6	92.160	99.074
24) Hexachlor...	6.069	6.453	322.5E6	403.2E6	89.027	108.337
25) Oxychlorane	7.553	7.902	304.8E6	351.7E6	89.097	108.949
26) 2,4'-DDE	7.620	8.096	210.1E6	256.1E6	80.323	102.015 #
27) trans-Non...	7.807	8.177	343.2E6	405.2E6	90.873	111.970
28) 2,4'-DDD	7.999	8.467	185.8E6	222.6E6	81.886	100.824
29) 2,4'-DDT	8.180	8.689	220.7E6	257.3E6	92.128	110.119

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152024.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:29  
 Operator : MJB  
 Sample : 0J15061-CALH  
 Misc : A20I186, 9-42 100 ppb  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:52:30 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.735	378.2E6	435.1E6	91.739	<del>109.657</del>
31)	Mirex	8.961	9.645	228.7E6	254.5E6	87.711	110.118 #
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

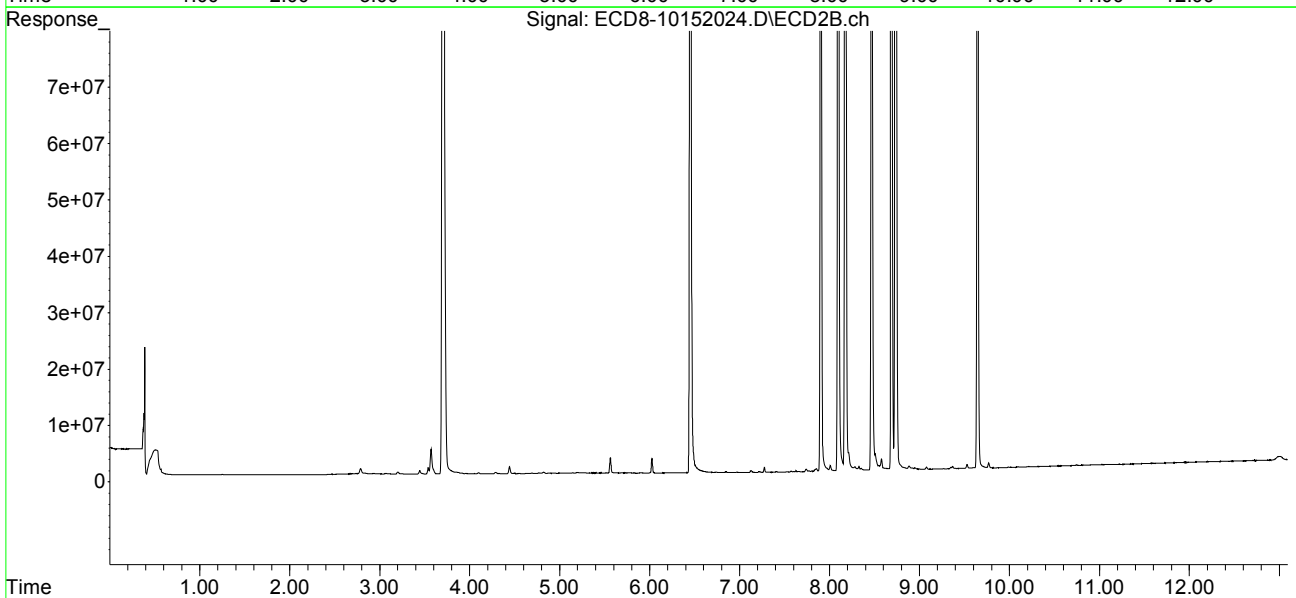
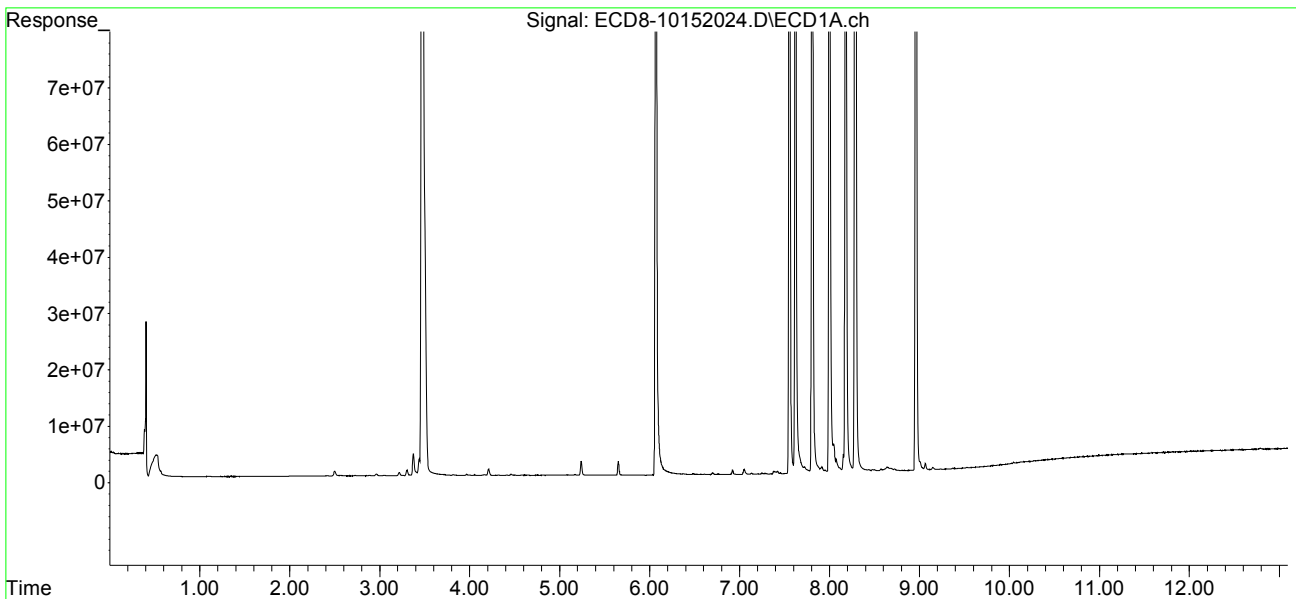
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152024.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 23:29  
Operator : MJB  
Sample : 0J15061-CALH  
Misc : A20I186, 9-42 100 ppb  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:52:30 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152025.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:46  
 Operator : MJB  
 Sample : 0J15061-CALI  
 Misc : A20I179, 9-42 200 ppb  
 ALS Vial : 22 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:53:03 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	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...	3.477	3.704	721.1E6	947.4E6	206.946	210.803
24) Hexachlor...	6.070	6.454	676.2E6	870.6E6	183.117	210.949
25) Oxychlorane	7.552	7.901	646.9E6	749.5E6	189.487	210.879
26) 2,4'-DDE	7.619	8.095	453.7E6	567.8E6	169.570	202.088
27) trans-Non...	7.806	8.176	742.7E6	873.1E6	195.925	216.642
28) 2,4'-DDD	7.997	8.466	398.4E6	497.7E6	173.056	201.525
29) 2,4'-DDT	8.179	8.688	475.5E6	567.1E6	192.098	215.002

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152025.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 15 Oct 2020 23:46  
 Operator : MJB  
 Sample : 0J15061-CALI  
 Misc : A20I179, 9-42 200 ppb  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:53:03 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

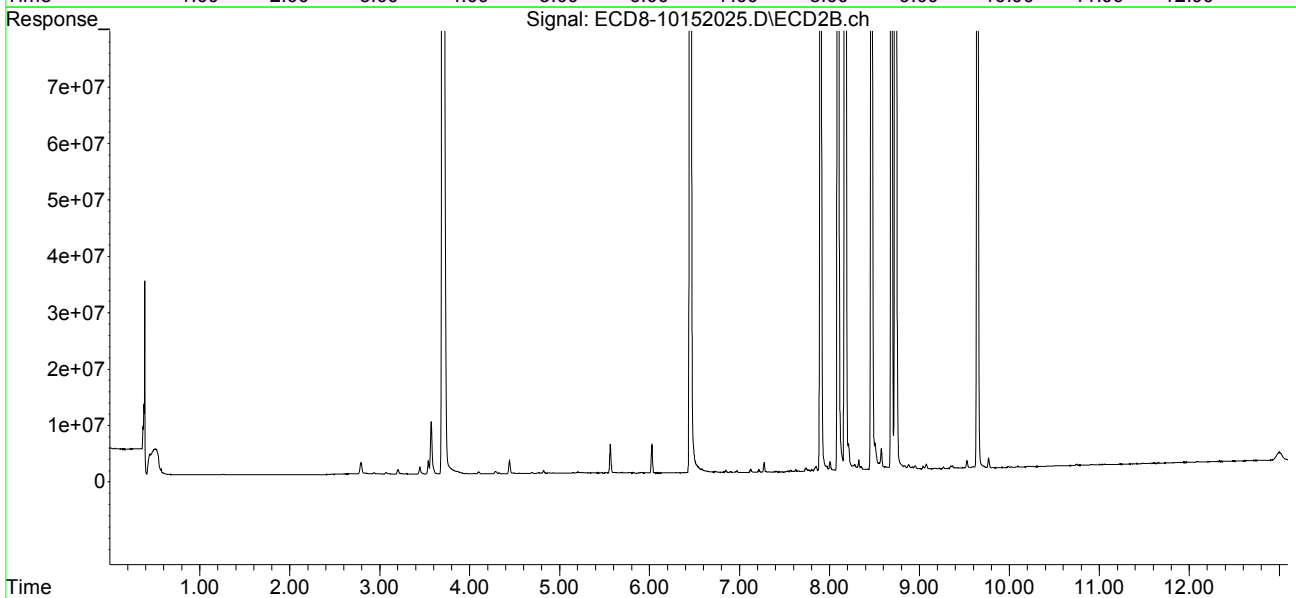
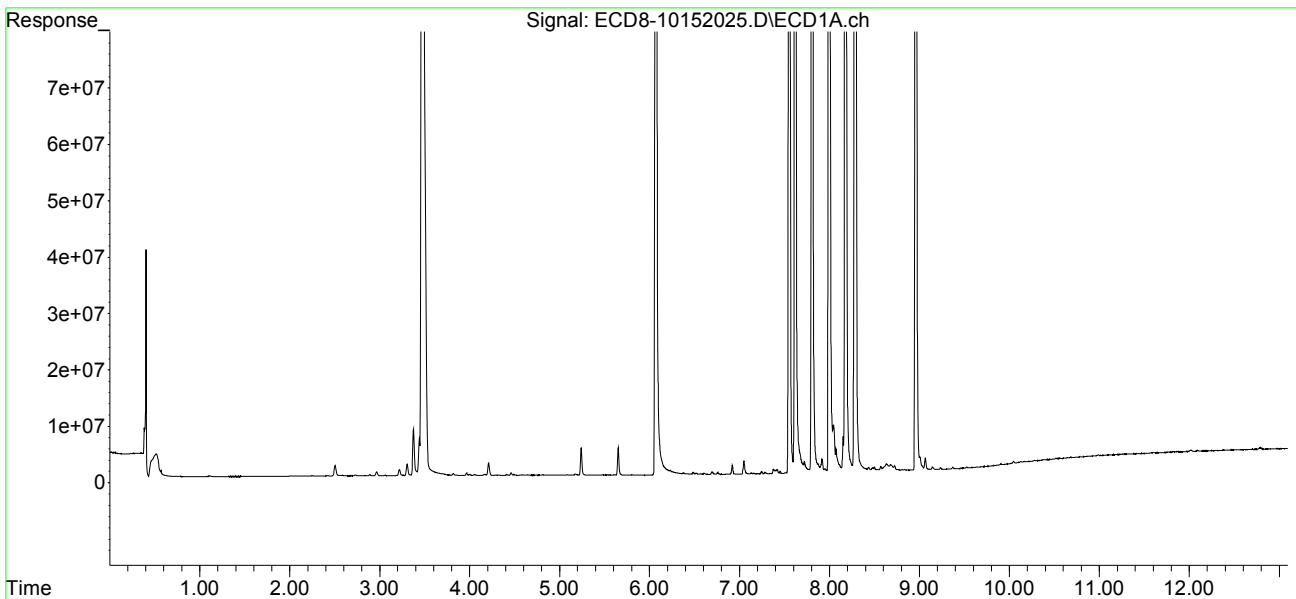
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	8.285	8.734	802.3E6	961.3E6	191.900	217.859
31)	Mirex	8.960	9.644	486.2E6	538.2E6	188.074	215.354
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152025.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 15 Oct 2020 23:46  
Operator : MJB  
Sample : 0J15061-CALI  
Misc : A20I179, 9-42 200 ppb  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:53:03 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152028.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:35  
 Operator : MJB  
 Sample : 0J15061-CALJ  
 Misc : A20J277, CHLOR 10 ppb  
 ALS Vial : 24 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:55:53 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152028.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:35  
 Operator : MJB  
 Sample : 0J15061-CALJ  
 Misc : A20J277, CHLOR 10 ppb  
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:55:53 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

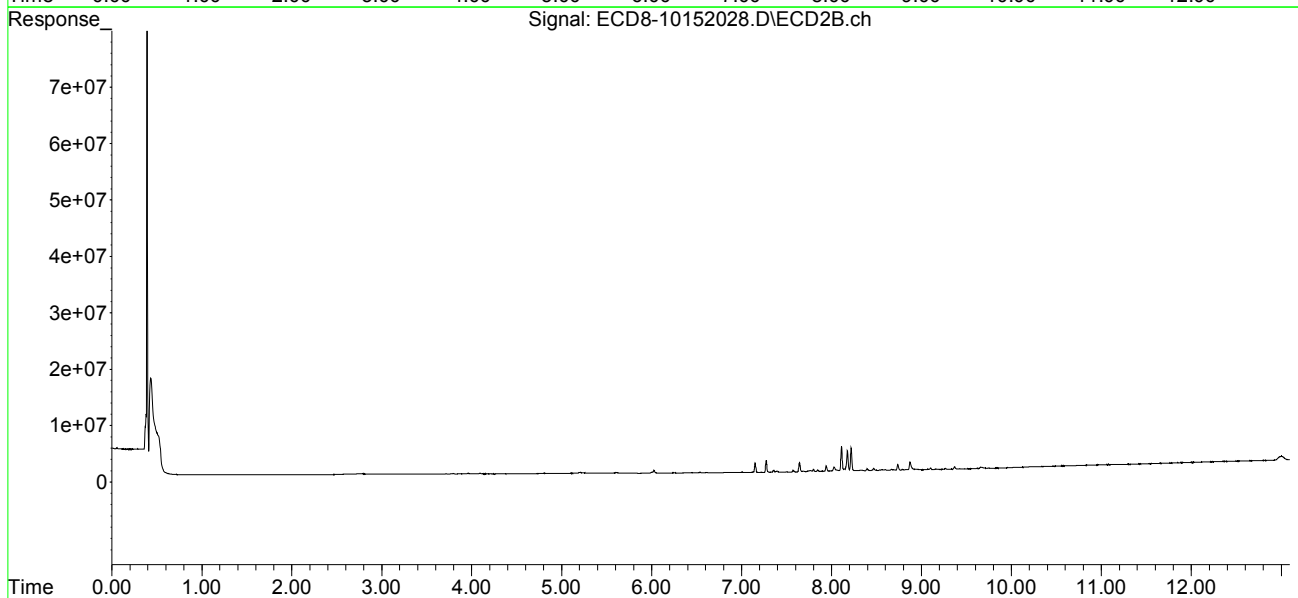
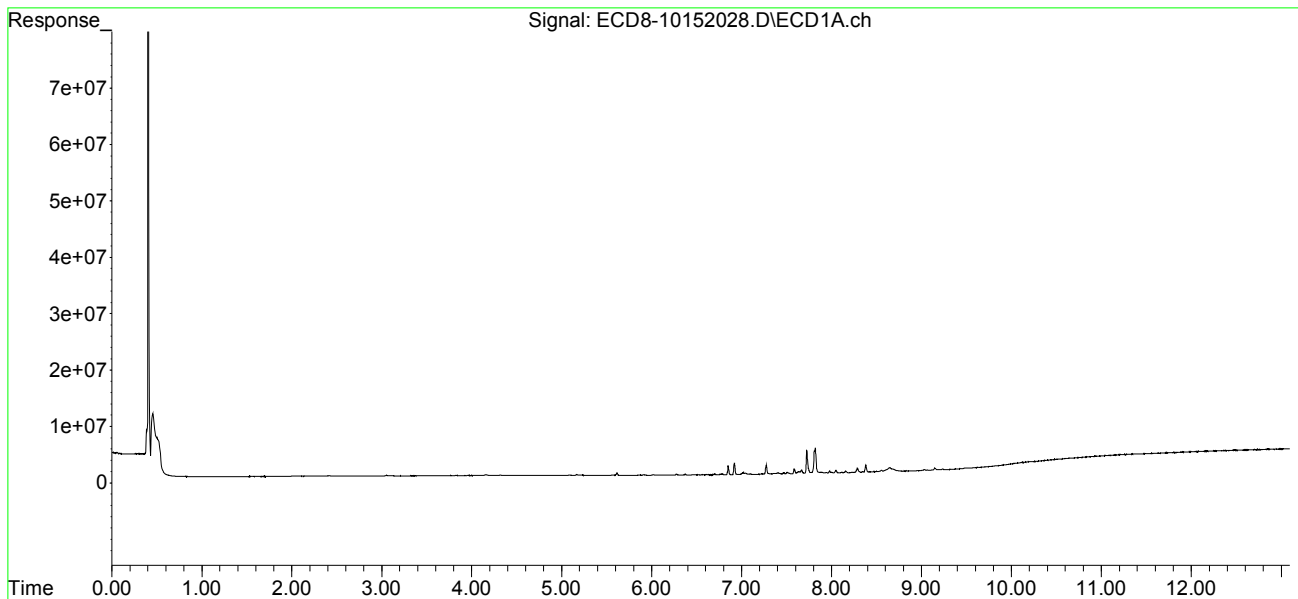
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.726	8.111	4101623	4425582	9.067	10.017
33)	Chlordane...	7.820	8.217	4385167	4119232	7.970	11.066 #
34)	Chlordane...	8.380	8.873	1337616	1424459	9.223	3.581 #
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152028.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 00:35  
Operator : MJB  
Sample : 0J15061-CALJ  
Misc : A20J277, CHLOR 10 ppb  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:55:53 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152029.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:52  
 Operator : MJB  
 Sample : 0J15061-CALK  
 Misc : A20F057, CHLOR 50 ppb  
 ALS Vial : 25 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:56:25 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152029.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 00:52  
 Operator : MJB  
 Sample : 0J15061-CALK  
 Misc : A20F057, CHLOR 50 ppb  
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:56:25 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

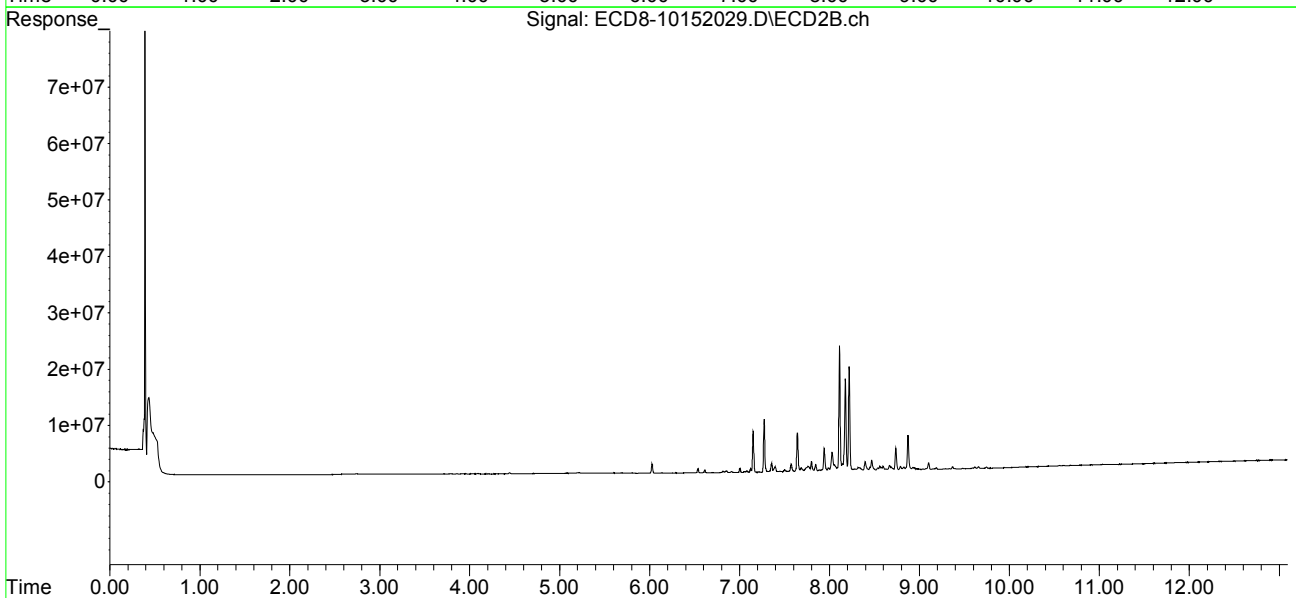
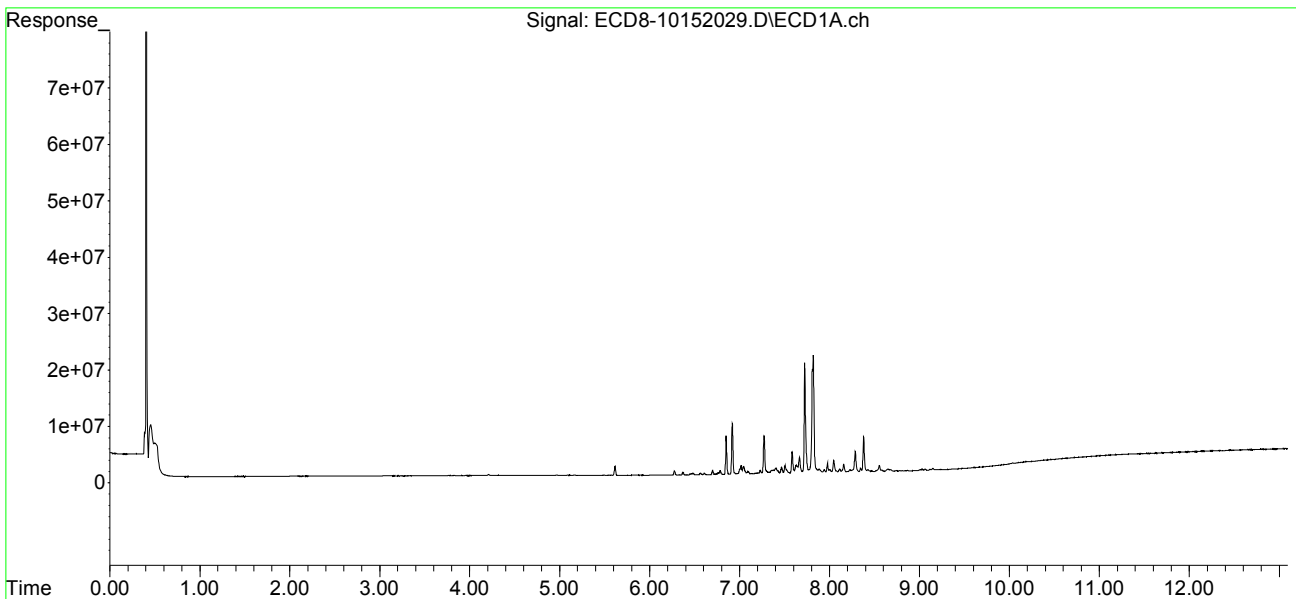
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.725	8.111	19538919	22190571	43.190	<del>50.227</del>
33)	Chlordane...	7.820	8.217	20854744	18468542	37.904	49.616 #
34)	Chlordane...	8.379	8.873	6256198	6150473	<del>43.135</del>	47.959
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152029.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 00:52  
Operator : MJB  
Sample : 0J15061-CALK  
Misc : A20F057, CHLOR 50 ppb  
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:56:25 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152030.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:08  
 Operator : MJB  
 Sample : 0J15061-CALL  
 Misc : A20F058, CHLOR 100 ppb  
 ALS Vial : 26 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:56:54 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152030.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:08  
 Operator : MJB  
 Sample : 0J15061-CALL  
 Misc : A20F058, CHLOR 100 ppb  
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:56:54 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

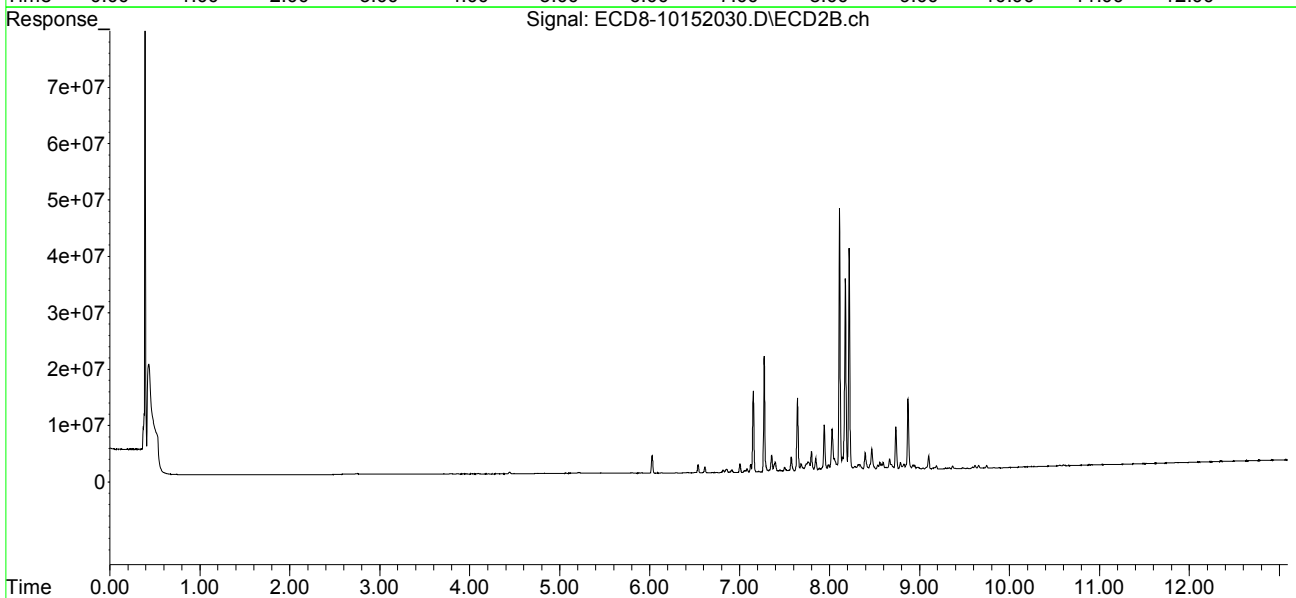
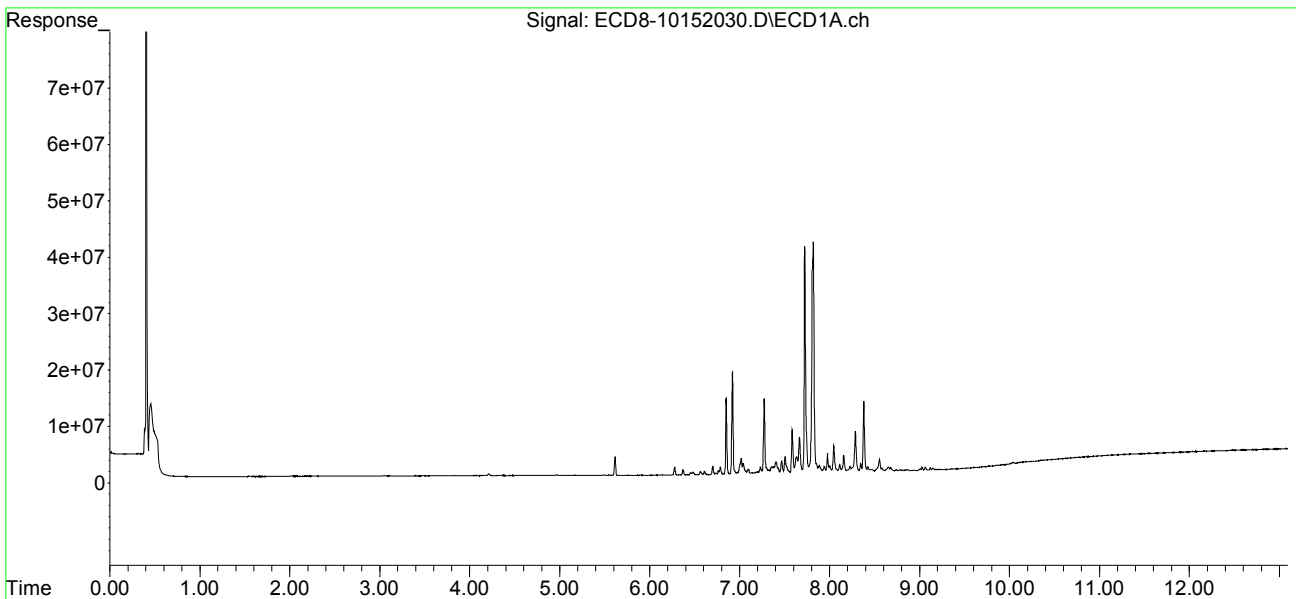
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.725	8.110	40102111	46516148	88.645	105.286
33)	Chlordane...	7.819	8.216	40925321	39446568	74.382	105.974 #
34)	Chlordane...	8.379	8.872	12465253	12535896	85.945	107.226
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152030.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:08  
Operator : MJB  
Sample : 0J15061-CALL  
Misc : A20F058, CHLOR 100 ppb  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:56:54 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152031.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:24  
 Operator : MJB  
 Sample : 0J15061-CALM  
 Misc : A20F059, CHLOR 200 ppb  
 ALS Vial : 27 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:57:23 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152031.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:24  
 Operator : MJB  
 Sample : 0J15061-CALM  
 Misc : A20F059, CHLOR 200 ppb  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:57:23 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

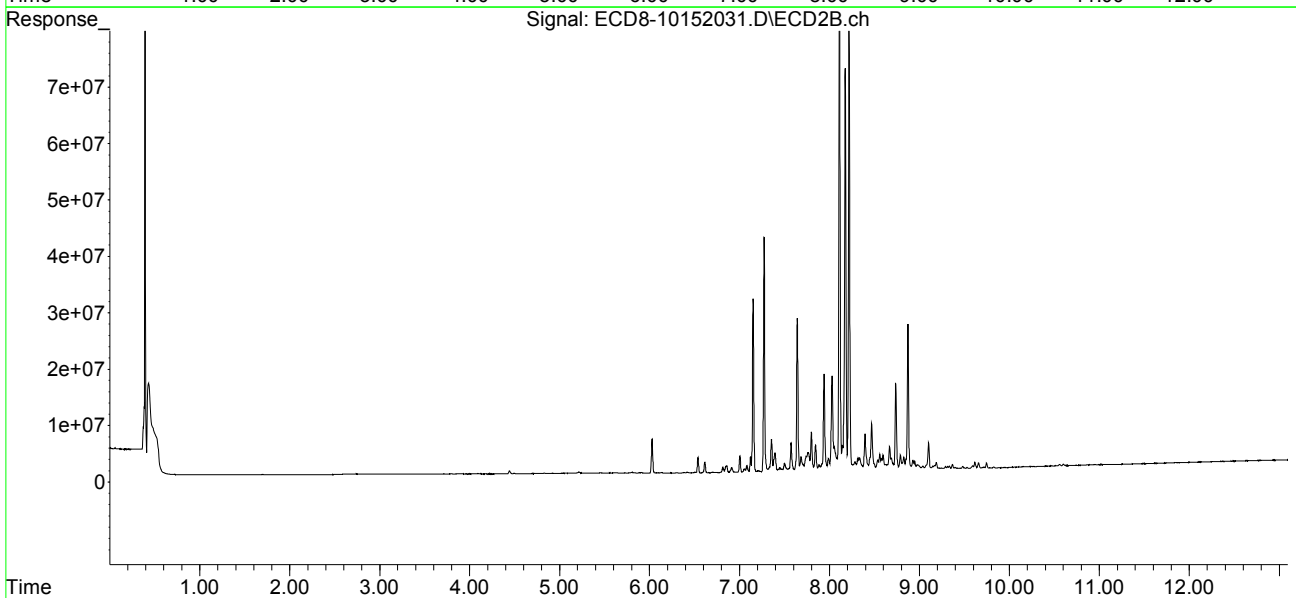
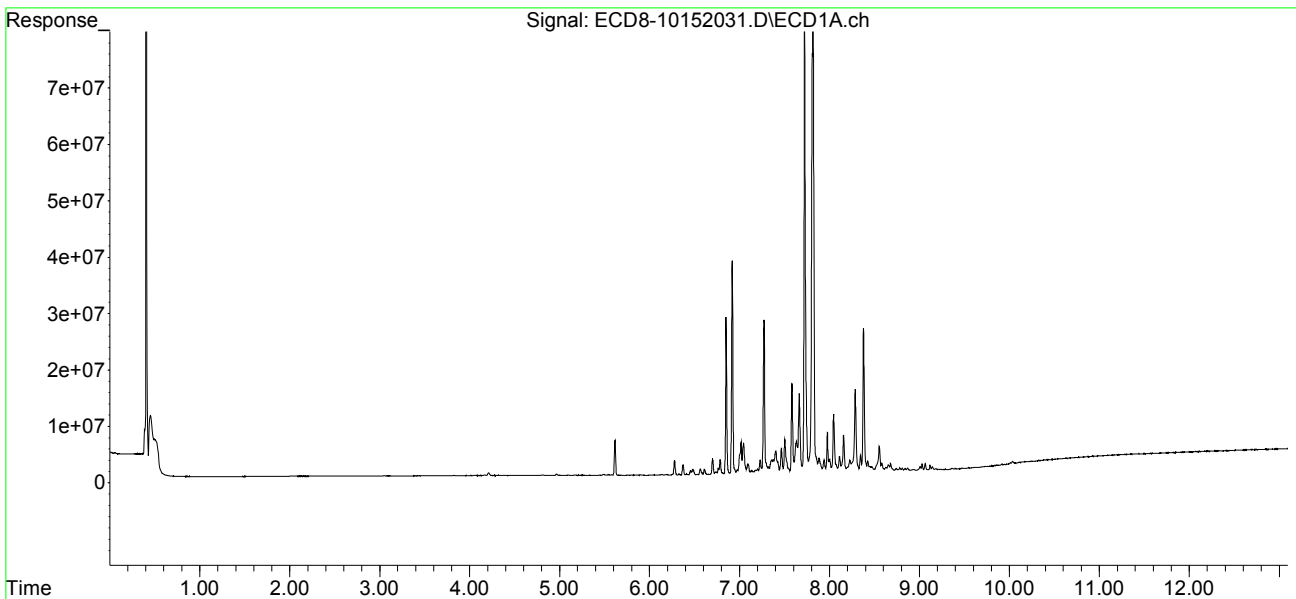
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.723	8.110	83839566	95919284	185.325	217.106
33)	Chlordane...	7.819	8.217	83684527	81115667	152.098	217.919 #
34)	Chlordane...	8.378	8.872	25372320	25782833	174.936	227.759 #
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152031.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:24  
Operator : MJB  
Sample : 0J15061-CALM  
Misc : A20F059, CHLOR 200 ppb  
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:57:23 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152032.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:41  
 Operator : MJB  
 Sample : 0J15061-CALN  
 Misc : A20F060, CHLOR 500 ppb  
 ALS Vial : 28 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:54:59 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152032.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:41  
 Operator : MJB  
 Sample : 0J15061-CALN  
 Misc : A20F060, CHLOR 500 ppb  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:54:59 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:48:57 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

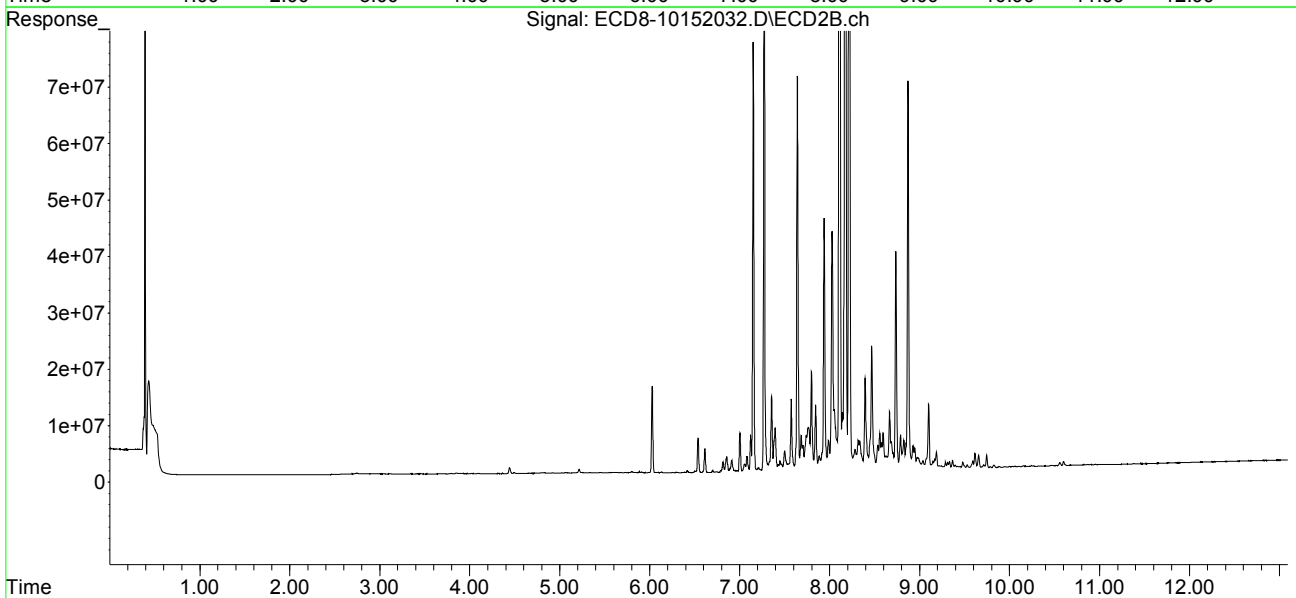
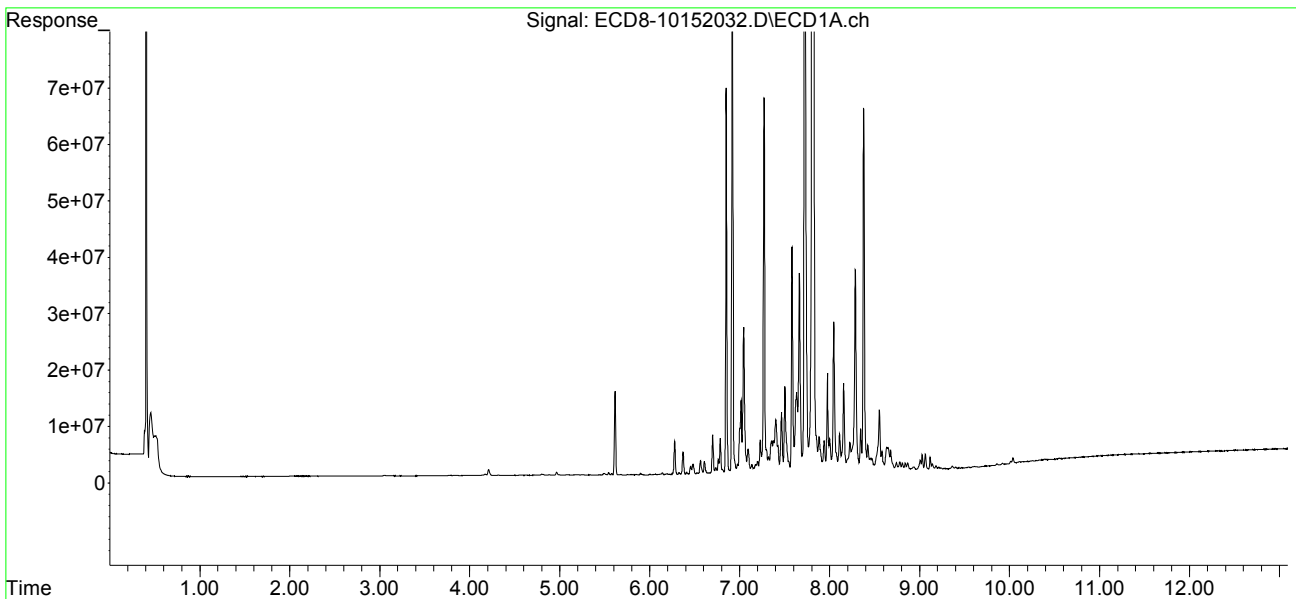
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.723	8.109	209.0E6	255.1E6	462.086	577.498
33)	Chlordane...	7.818	8.216	206.6E6	207.8E6	375.482	558.181 #
34)	Chlordane...	8.378	8.871	64135607	68754277	442.200	598.785 #
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152032.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:41  
Operator : MJB  
Sample : 0J15061-CALN  
Misc : A20F060, CHLOR 500 ppb  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:54:59 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:48:57 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152033.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:58  
 Operator : MJB  
 Sample : 0J15061-CALO  
 Misc : A20F061, CHLOR 1000 ppb  
 ALS Vial : 29 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:57:57 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152033.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 1:58  
 Operator : MJB  
 Sample : 0J15061-CALO  
 Misc : A20F061, CHLOR 1000 ppb  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:57:57 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

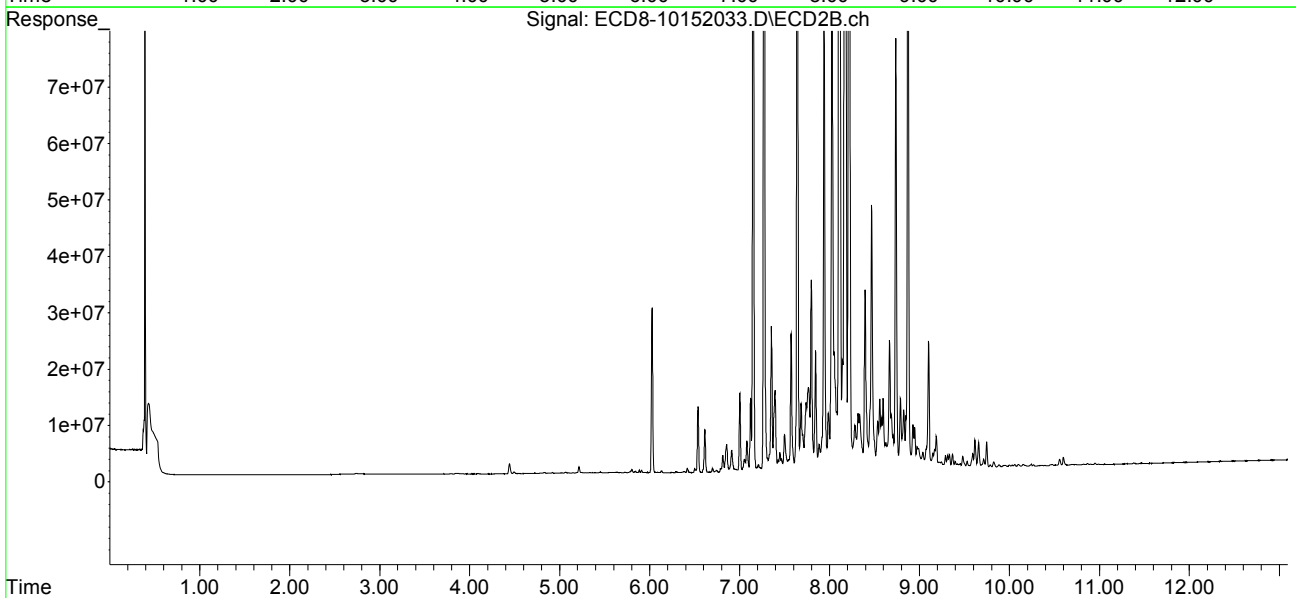
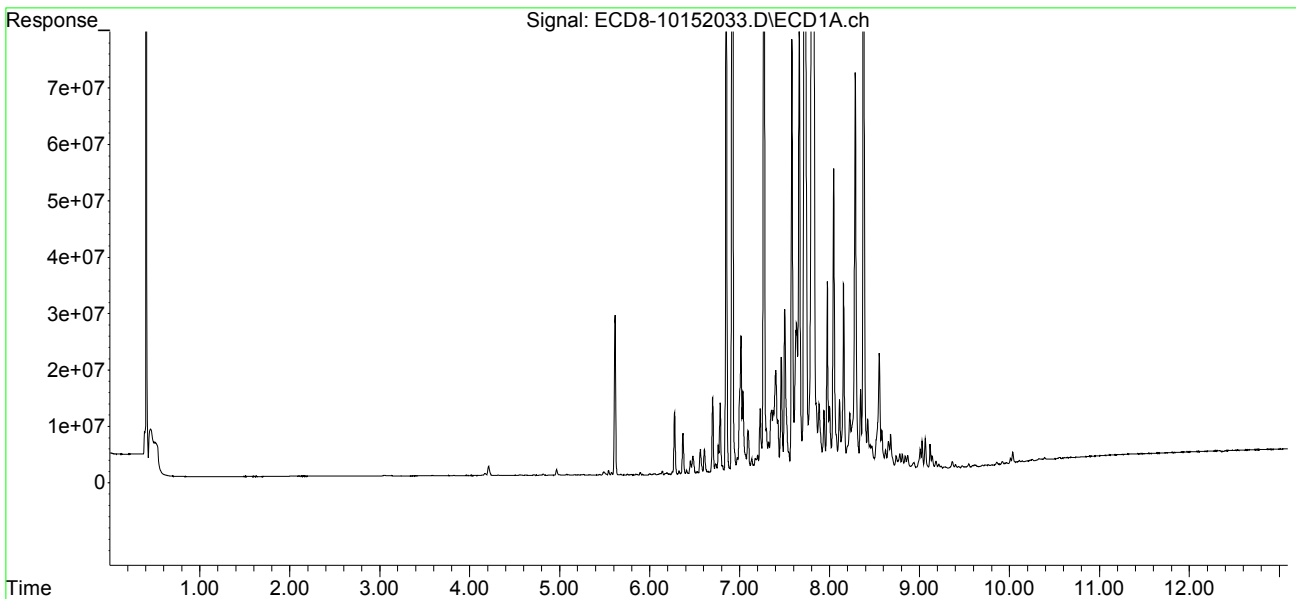
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	7.722	8.110	397.3E6	490.1E6	878.276	1109.255 #
33)	Chlordane...	7.818	8.216	397.5E6	427.7E6	722.398	1149.139 #
34)	Chlordane...	8.378	8.872	126.7E6	138.5E6	873.655	1148.140 #
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152033.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 1:58  
Operator : MJB  
Sample : 0J15061-CALO  
Misc : A20F061, CHLOR 1000 ppb  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:57:57 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152034.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:14  
 Operator : MJB  
 Sample : 0J15061-CALP  
 Misc : A20F056, CHLOR 2000 ppb  
 ALS Vial : 30 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:58:24 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152034.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 2:14  
 Operator : MJB  
 Sample : 0J15061-CALP  
 Misc : A20F056, CHLOR 2000 ppb  
 ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:58:24 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
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...	7.722	8.109	894.2E6	1157.0E6	1976.595	2618.741 #
33)	Chlordane...	7.818	8.216	880.4E6	946.8E6	1600.091	2543.561 #
34)	Chlordane...	8.378	8.871	274.6E6	302.1E6	1893.459	2262.065
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
37)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
38)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
39)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
40)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
41)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

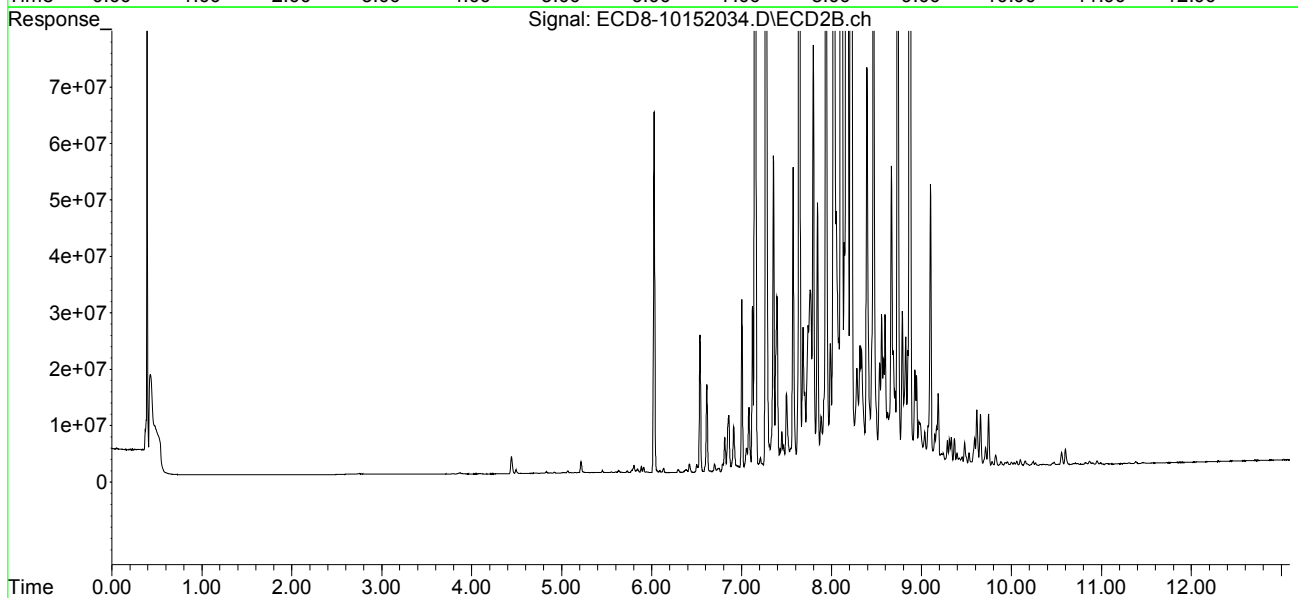
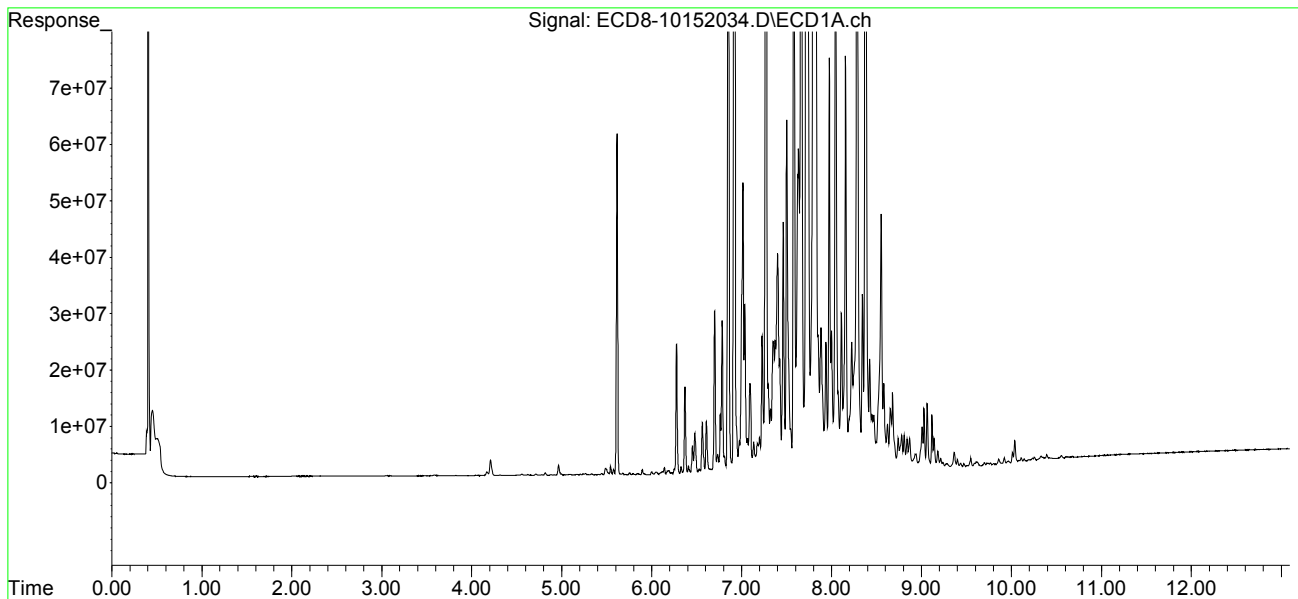
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152034.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 2:14  
Operator : MJB  
Sample : 0J15061-CALP  
Misc : A20F056, CHLOR 2000 ppb  
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:58:24 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152037.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:04  
 Operator : MJB  
 Sample : 0J15061-CALQ  
 Misc : A20J278, TOX 10 ppb  
 ALS Vial : 32 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:00:50 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152037.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:04  
 Operator : MJB  
 Sample : 0J15061-CALQ  
 Misc : A20J278, TOX 10 ppb  
 ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:00:50 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

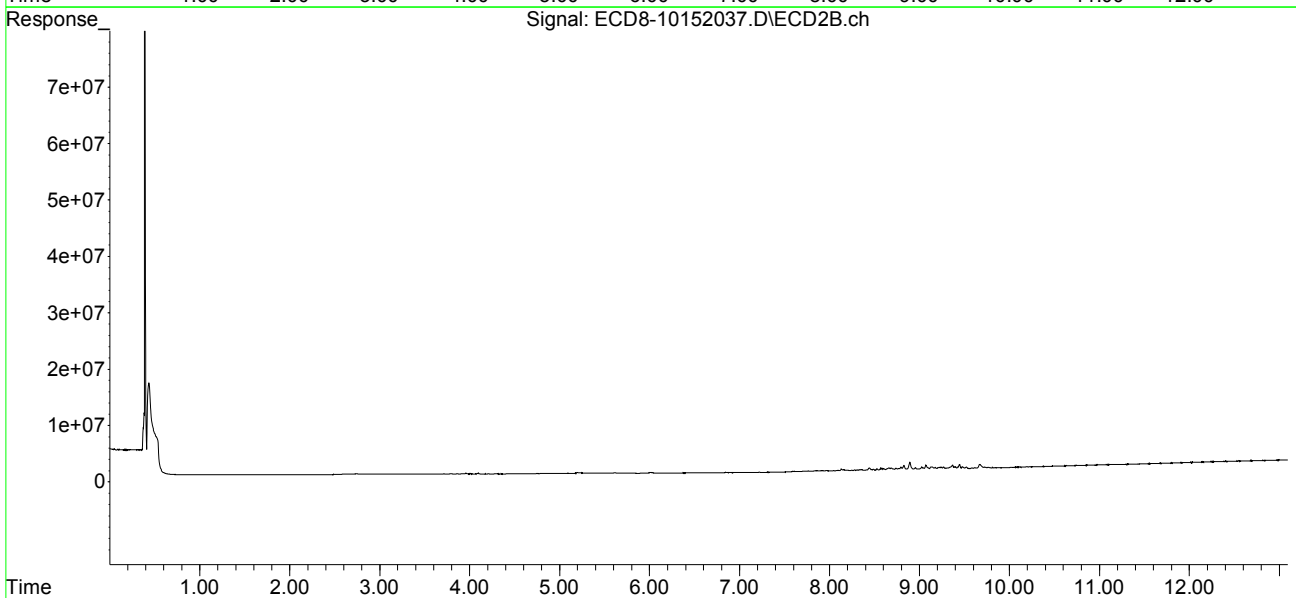
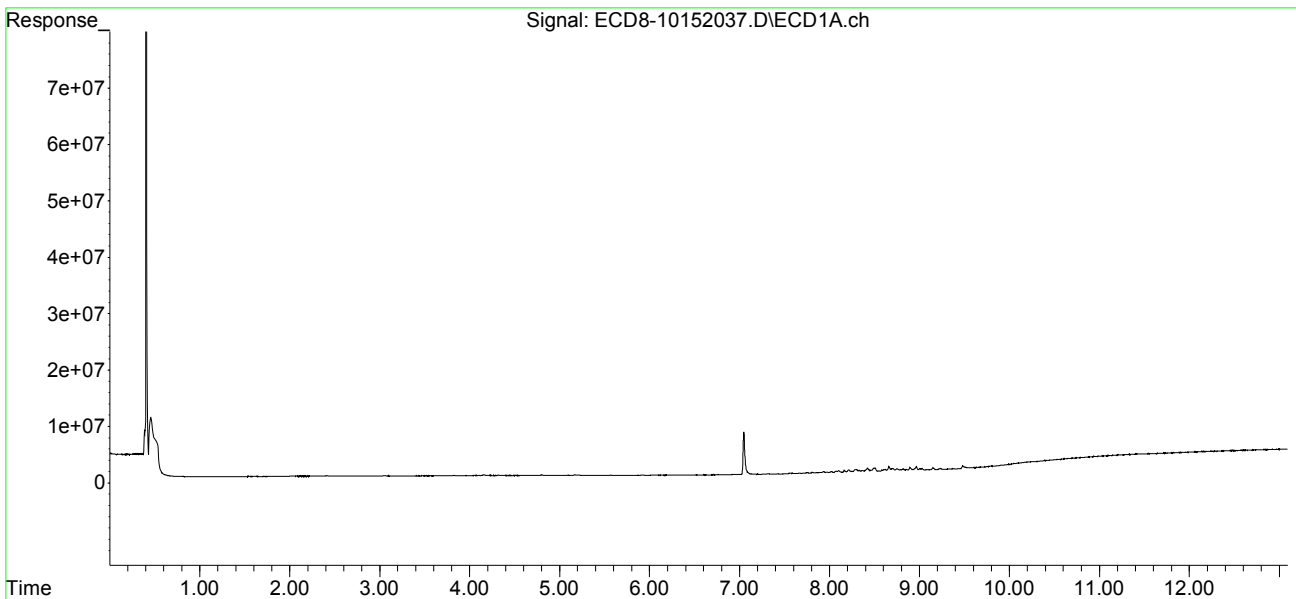
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.808	8.444	144669	399011	8.410	13.196 #
37)	Toxaphene...	8.102	8.793	330702	464016	7.069	11.808 #
38)	Toxaphene...	8.422	8.825	688382	754224	9.136	11.927 #
39)	Toxaphene...	8.659	8.893	806604	1349902	7.130	7.694
40)	Toxaphene...	8.894	9.071	543118	702293	9.724	12.370 #
41)	Toxaphene...	8.965	9.443	681518	779942	8.865	12.046 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152037.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:04  
Operator : MJB  
Sample : 0J15061-CALQ  
Misc : A20J278, TOX 10 ppb  
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:00:50 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:00:33 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152038.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:20  
 Operator : MJB  
 Sample : 0J15061-CALR  
 Misc : A20F064, TOX 50 ppb  
 ALS Vial : 33 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:01:25 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound		RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----							
System Monitoring Compounds							
1) S	TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S	DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds							
2)	a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)	g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)	d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9)	trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10)	cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25)	Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26)	2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27)	trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28)	2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29)	2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152038.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:20  
 Operator : MJB  
 Sample : 0J15061-CALR  
 Misc : A20F064, TOX 50 ppb  
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:01:25 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

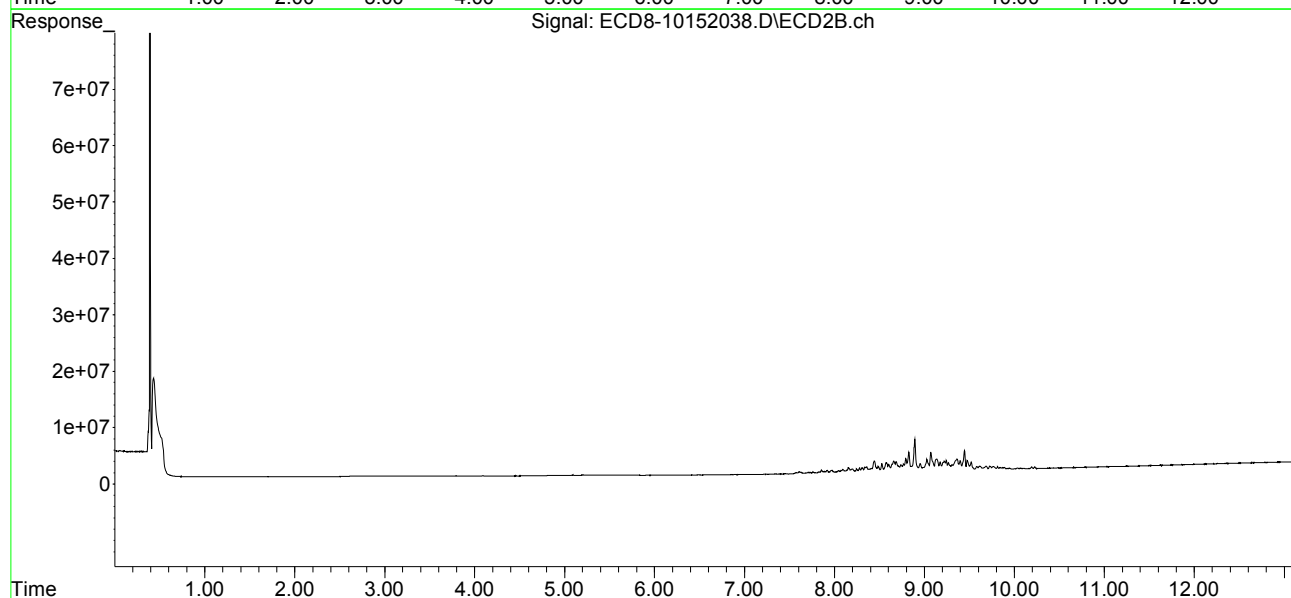
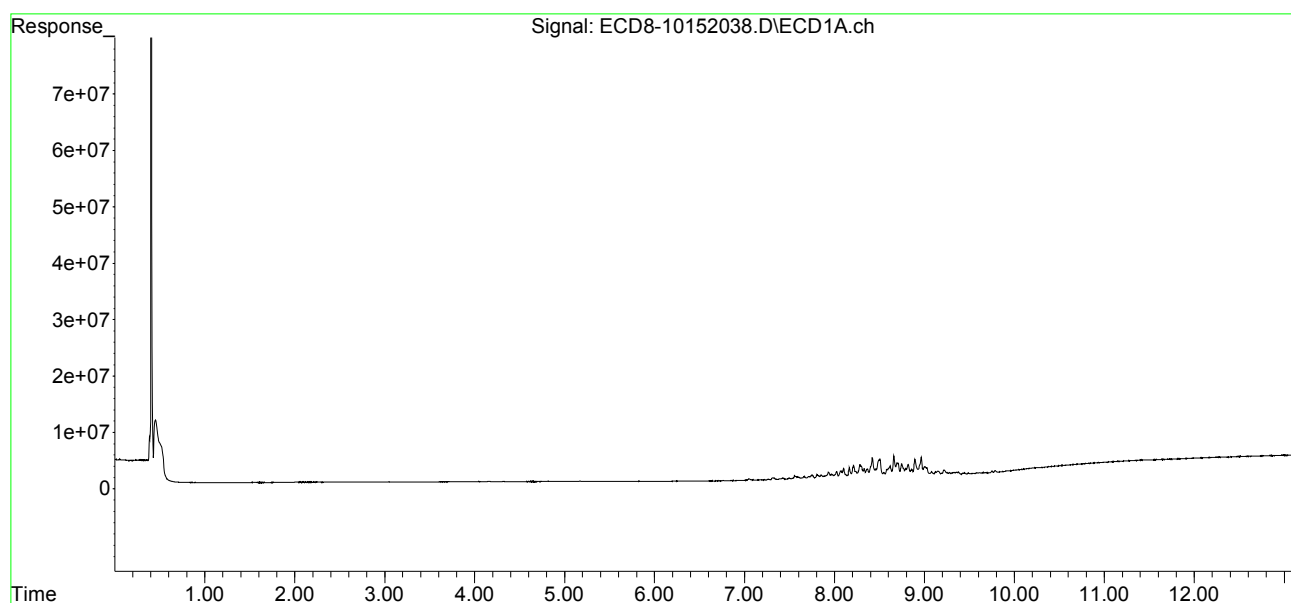
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.805	8.443	726337	1944781	42.224	64.318 #
37)	Toxaphene...	8.101	8.793	1648417	2303326	47.656	58.613
38)	Toxaphene...	8.421	8.825	3404622	3392585	45.185	53.649
39)	Toxaphene...	8.658	8.892	3598900	5669610	48.989	54.877
40)	Toxaphene...	8.893	9.070	2870073	3263105	51.388	57.474
41)	Toxaphene...	8.964	9.443	3244525	3524155	42.204	54.429 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152038.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:20  
Operator : MJB  
Sample : 0J15061-CALR  
Misc : A20F064, TOX 50 ppb  
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:01:25 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:00:33 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152039.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:37  
 Operator : MJB  
 Sample : 0J15061-CALS  
 Misc : A20F065, TOX 100 ppb  
 ALS Vial : 34 Sample Multiplier: 1

Not reported. Wrong standard viald.

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:01:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152039.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:37  
 Operator : MJB  
 Sample : 0J15061-CALS  
 Misc : A20F065, TOX 100 ppb  
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:01:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

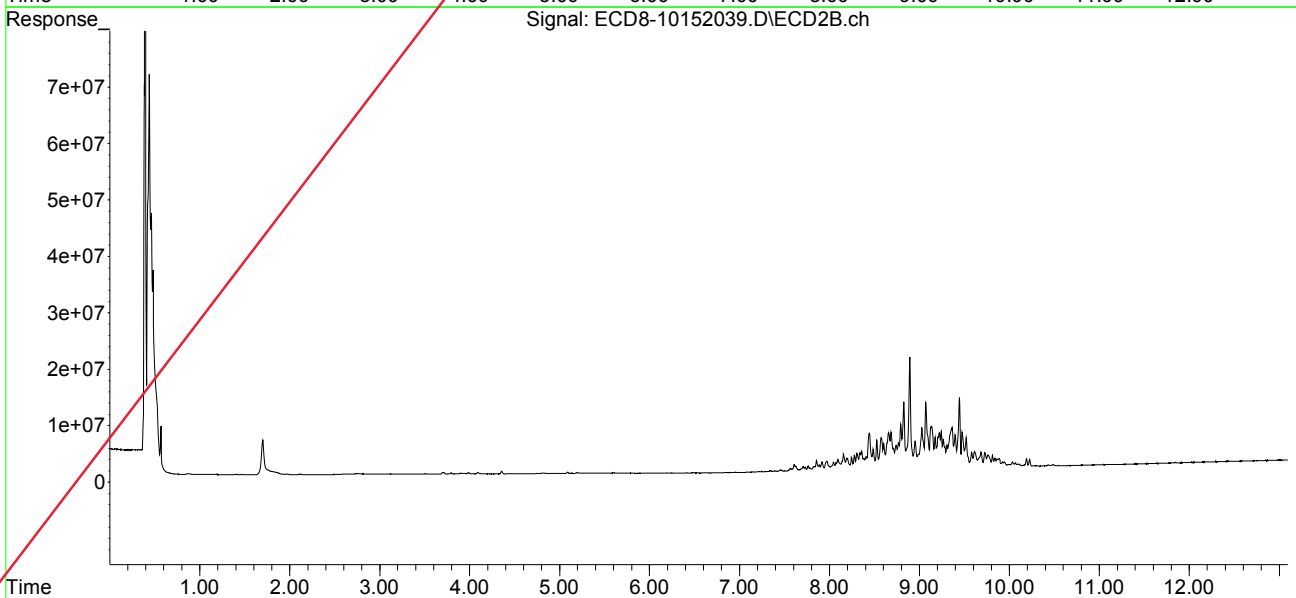
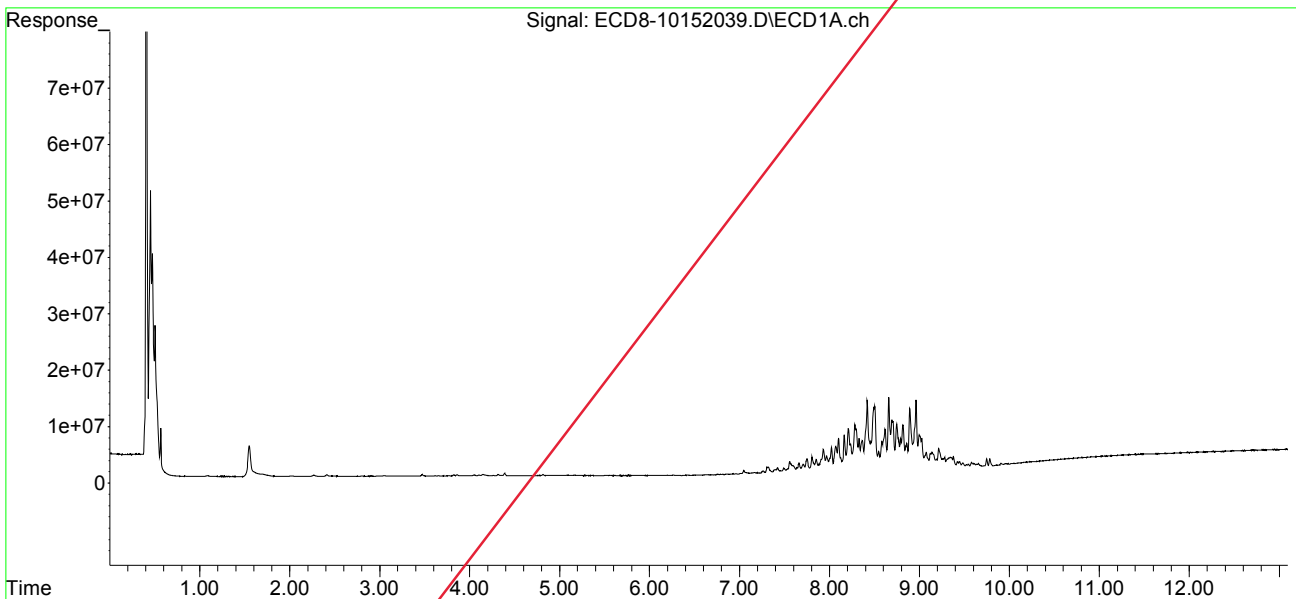
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.804	8.443	2660037	6552232	154.636	216.695 #
37)	Toxaphene...	8.100	8.792	5863008	8007800	177.649	203.777
38)	Toxaphene...	8.419	8.824	12309556	11971612	163.368	189.314
39)	Toxaphene...	8.657	8.892	12748382	19887584	185.126	206.738
40)	Toxaphene...	8.892	9.070	10653821	11745901	190.754	206.883
41)	Toxaphene...	8.962	9.442	12094856	12512982	157.328	193.258
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152039.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:37  
Operator : MJB  
Sample : 0J15061-CALS  
Misc : A20F065, TOX 100 ppb  
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:01:56 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:00:33 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152040.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:53  
 Operator : MJB  
 Sample : 0J15061-CALT  
 Misc : A20F066, TOX 200 ppb  
 ALS Vial : 35 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:02:28 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152040.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 3:53  
 Operator : MJB  
 Sample : 0J15061-CALT  
 Misc : A20F066, TOX 200 ppb  
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:02:28 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

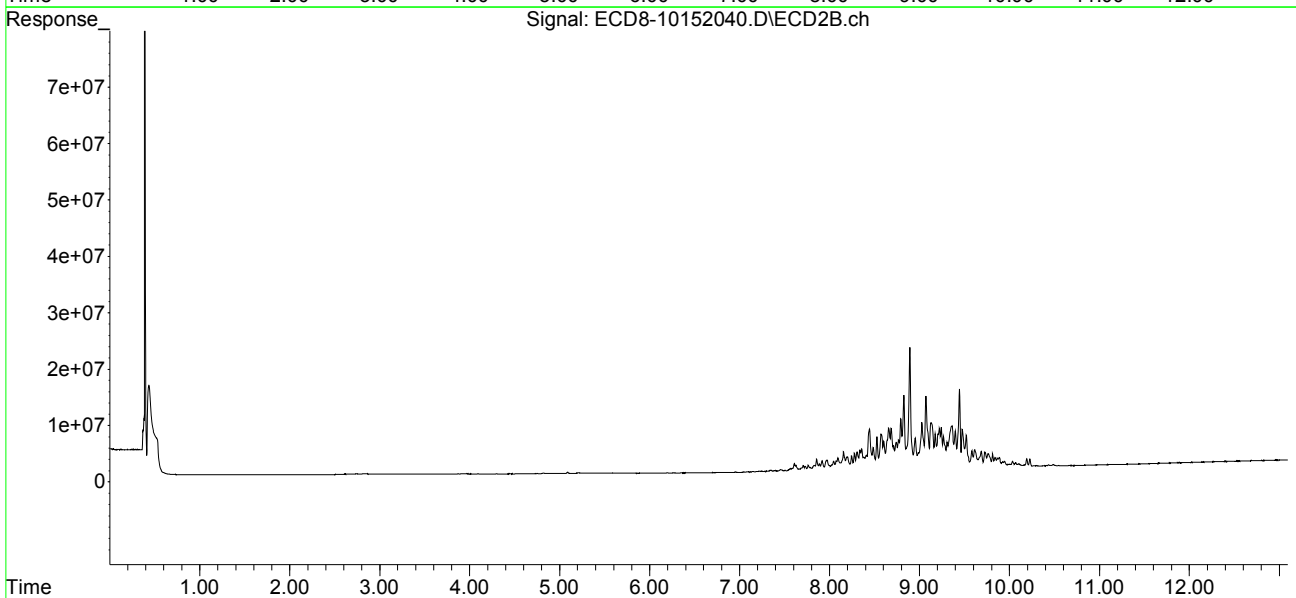
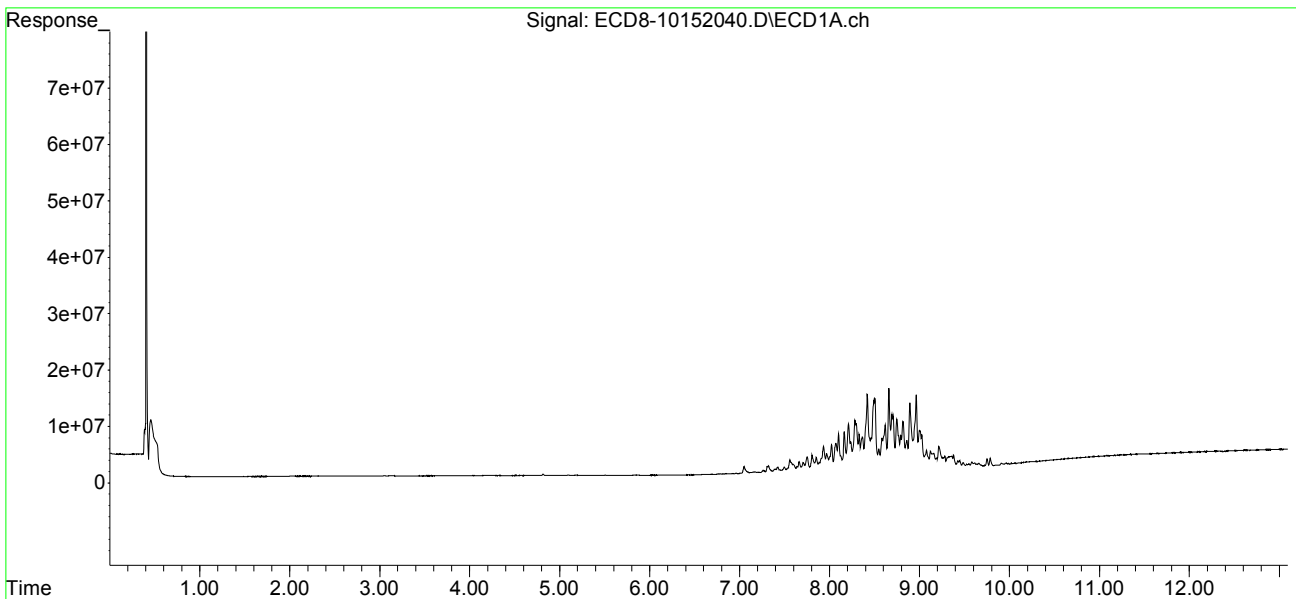
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.804	8.444	2928701	7231910	170.254	239.173 #
37)	Toxaphene...	8.099	8.792	6531155	8939693	198.282	227.491
38)	Toxaphene...	8.419	8.825	13381927	13097504	177.600	207.119
39)	Toxaphene...	8.658	8.892	14340541	21519149	208.659	223.843
40)	Toxaphene...	8.892	9.070	11584089	12845839	207.410	226.257
41)	Toxaphene...	8.963	9.442	13009268	13990550	169.223	216.078 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152040.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 3:53  
Operator : MJB  
Sample : 0J15061-CALT  
Misc : A20F066, TOX 200 ppb  
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:02:28 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:00:33 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152041.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:10  
 Operator : MJB  
 Sample : 0J15061-CALU  
 Misc : A20D430, TOX 500 ppb  
 ALS Vial : 36 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:59:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152041.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:10  
 Operator : MJB  
 Sample : 0J15061-CALU  
 Misc : A20D430, TOX 500 ppb  
 ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 16:59:56 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 16:55:36 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

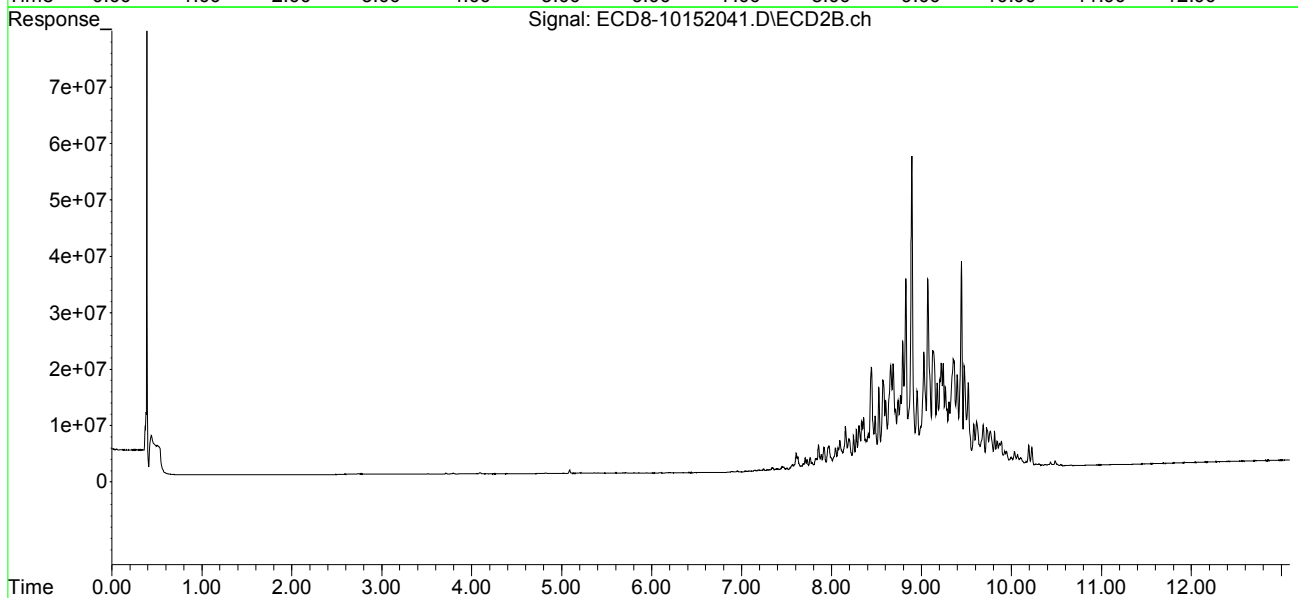
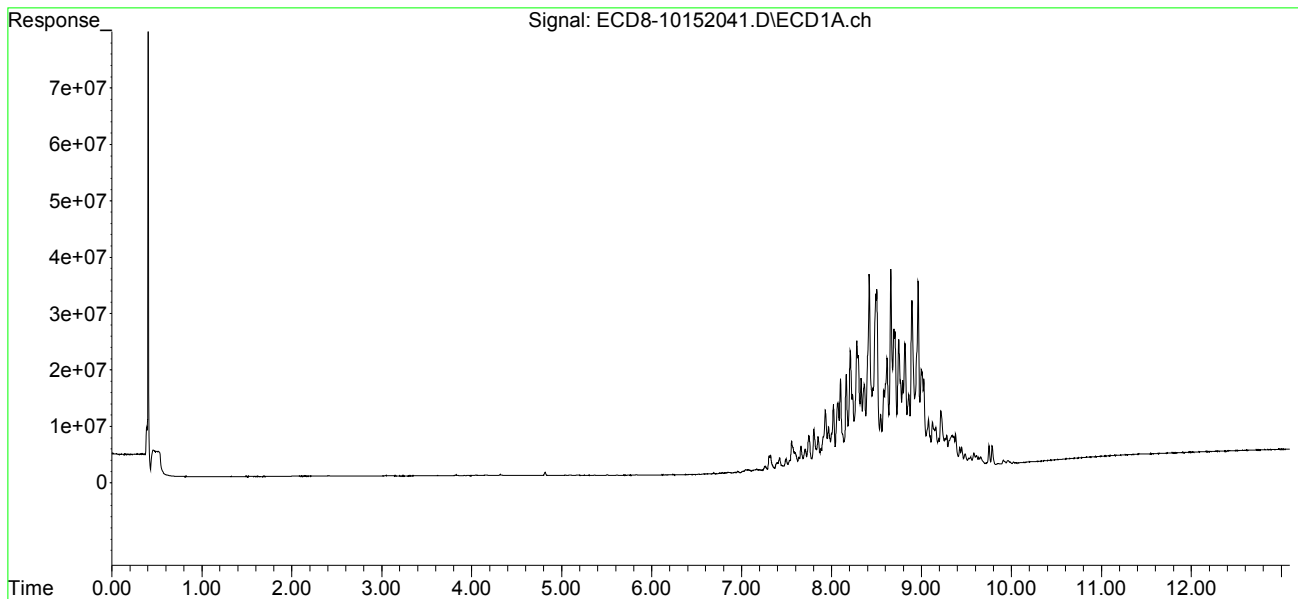
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.803	8.444	7355899	18107794	427.620	598.860 #
37)	Toxaphene...	8.099	8.791	16121893	22747138	495.207	578.853
38)	Toxaphene...	8.419	8.825	34493083	33775269	457.779	534.109
39)	Toxaphene...	8.657	8.892	35303409	55412823	514.316	565.771
40)	Toxaphene...	8.893	9.070	29598444	33539622	529.952	590.741
41)	Toxaphene...	8.963	9.442	33036149	36618141	429.729	565.552 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152041.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:10  
Operator : MJB  
Sample : 0J15061-CALU  
Misc : A20D430, TOX 500 ppb  
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 16:59:56 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 16:55:36 2020  
Response via : Initial Calibration  
Integrator: ChemStation





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152042.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:26  
 Operator : MJB  
 Sample : 0J15061-CALV  
 Misc : A20D431, TOX 1000 ppb  
 ALS Vial : 37 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:03:04 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152042.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:26  
 Operator : MJB  
 Sample : 0J15061-CALV  
 Misc : A20D431, TOX 1000 ppb  
 ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:03:04 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

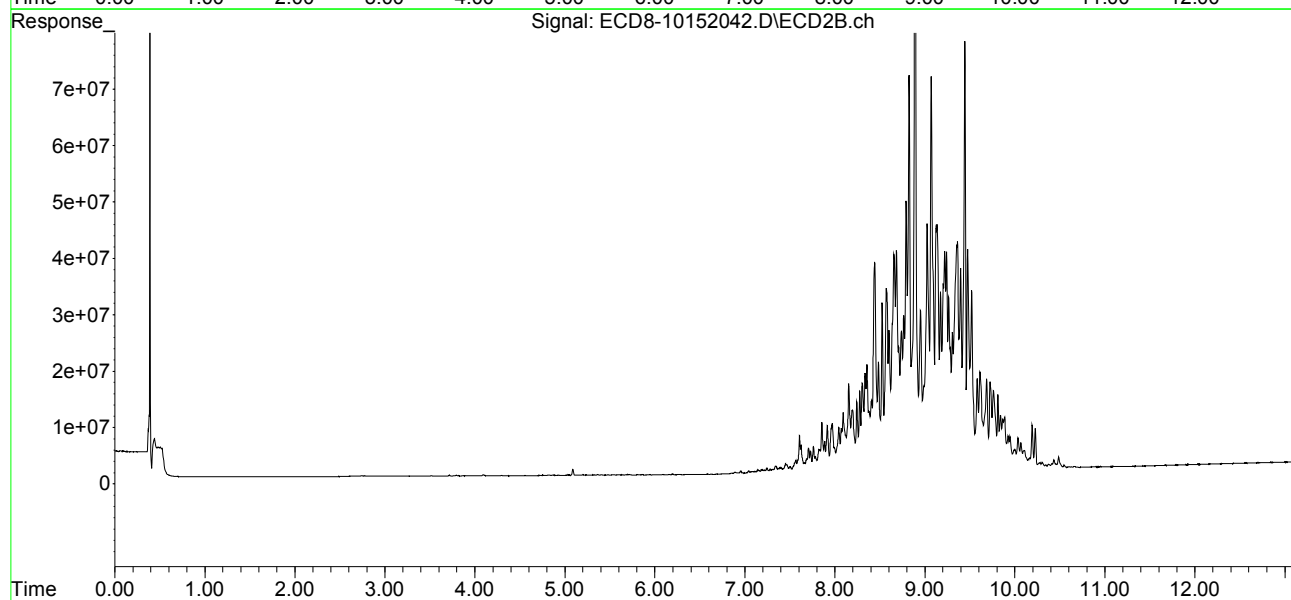
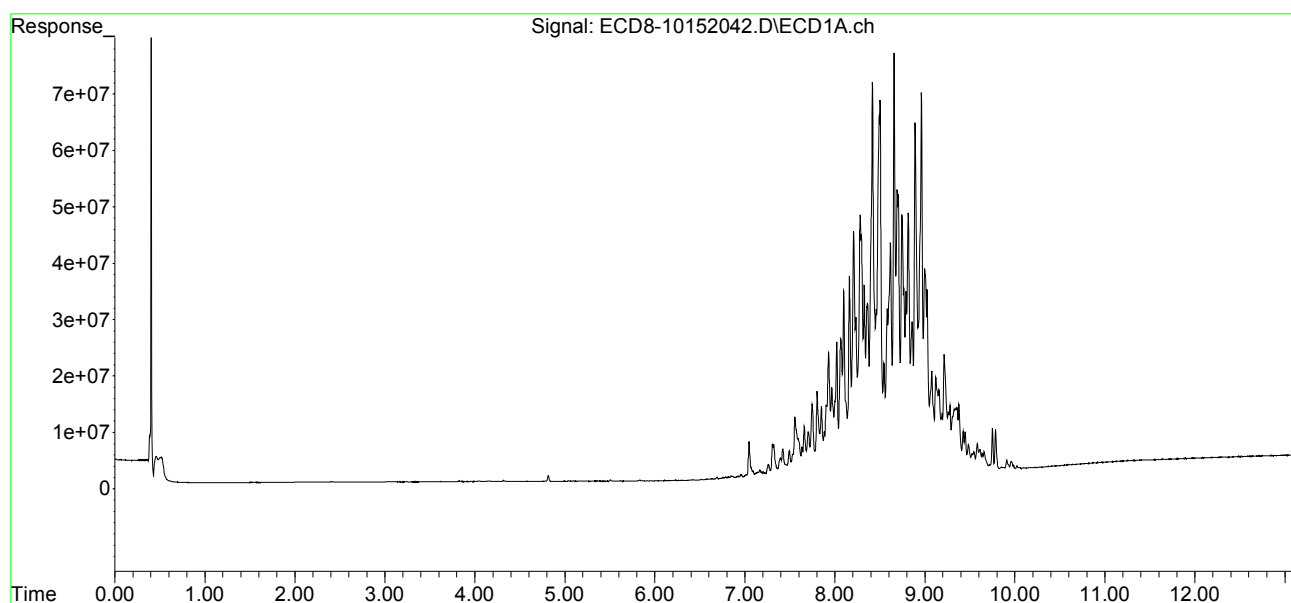
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.802	8.442	15006216	37044200	872.355	1225.124 #
37)	Toxaphene...	8.098	8.791	32732158	47836415	1012.838	1217.308
38)	Toxaphene...	8.418	8.824	69458796	70093512	921.830	1108.432
39)	Toxaphene...	8.656	8.891	74462214	120.1E6	1065.891	1159.768
40)	Toxaphene...	8.891	9.069	61876109	69799894	1107.874	1229.401
41)	Toxaphene...	8.962	9.442	67239784	75965801	874.645	1173.259 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152042.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:26  
Operator : MJB  
Sample : 0J15061-CALV  
Misc : A20D431, TOX 1000 ppb  
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:03:04 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:00:33 2020  
Response via : Initial Calibration  
Integrator: ChemStation



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152043.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:43  
 Operator : MJB  
 Sample : 0J15061-CALW  
 Misc : A20F063, TOX 2000 ppb  
 ALS Vial : 38 Sample Multiplier: 1

MJB 10/20/20

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:03:42 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
-----						
System Monitoring Compounds						
1) S TCMX (S)	0.000	0.000	0	0	N.D. d	N.D. d
22) S DCBP (S)	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) a-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3) g-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4) b-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6) d-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8) Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
9) trans-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
10) cis-Chlor...	0.000	0.000	0	0	N.D. d	N.D. d
11) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
12) 4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13) Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14) Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15) 4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
17) 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18) Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
19) Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
20) Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21) Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
23) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
24) Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
25) Oxychlorane	0.000	0.000	0	0	N.D. d	N.D. d
26) 2,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
27) trans-Non...	0.000	0.000	0	0	N.D. d	N.D. d
28) 2,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
29) 2,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
 Data File : ECD8-10152043.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 16 Oct 2020 4:43  
 Operator : MJB  
 Sample : 0J15061-CALW  
 Misc : A20F063, TOX 2000 ppb  
 ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
 Integration File signal 2: PEST2.e  
 Quant Time: Oct 20 17:03:42 2020  
 Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
 Quant Title : Instrument: DualECD8  
 QLast Update : Tue Oct 20 17:00:33 2020  
 Response via : Initial Calibration  
 Integrator: ChemStation

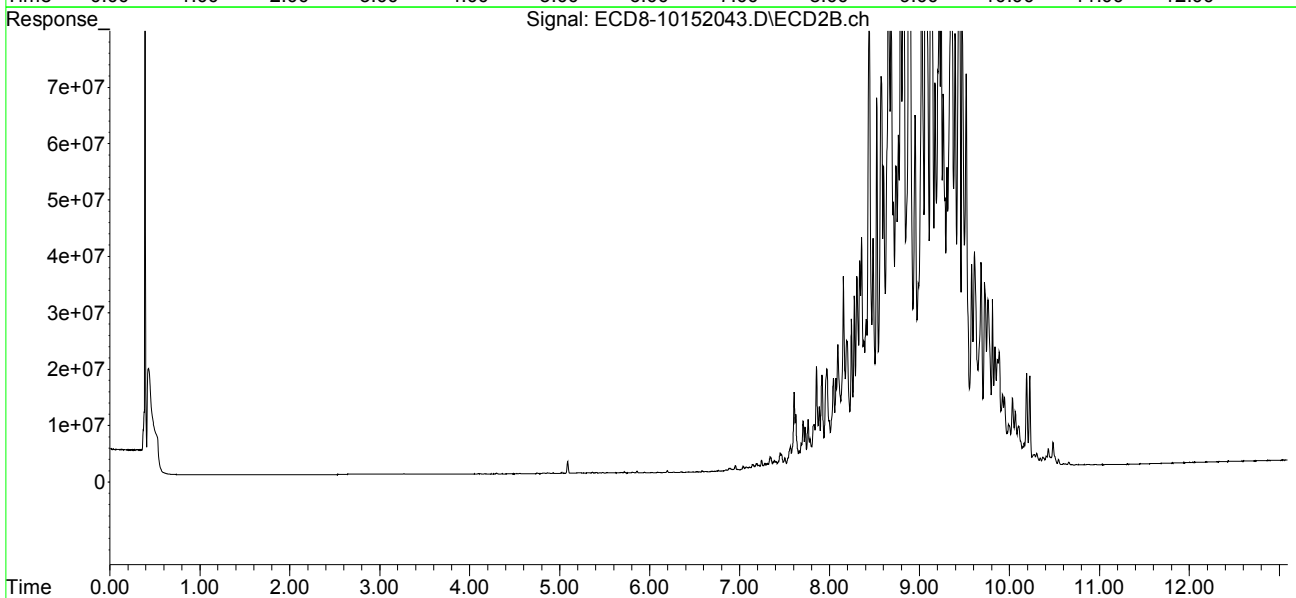
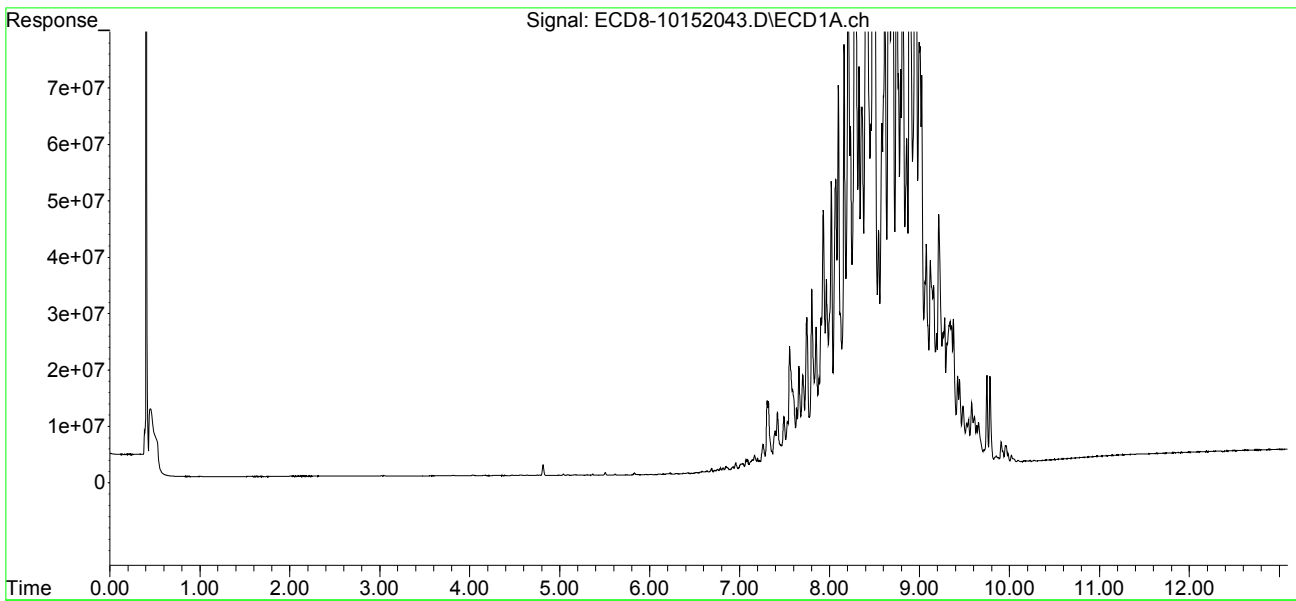
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/mL	ng/mL
30)	cis-Nonac...	0.000	0.000	0	0	N.D. d	N.D. d
31)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
32)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
33)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
34)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
35)	Chlordane...	0.000	0.000	0	0	N.D. d	N.D. d
36)	Toxaphene...	7.802	8.441	31810920	79634590	1849.262	2633.672 #
37)	Toxaphene...	8.098	8.790	67923479	104.7E6	2124.146	2665.298 #
38)	Toxaphene...	8.418	8.823	147.3E6	151.2E6	1955.044	2390.707
39)	Toxaphene...	8.656	8.891	154.2E6	255.8E6	2122.116	2234.760
40)	Toxaphene...	8.890	9.069	130.9E6	153.5E6	2344.529	2703.379
41)	Toxaphene...	8.961	9.442	145.1E6	163.3E6	1887.451	2522.356 #
42)	Toxaphene...	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2020-10\0J15061\  
Data File : ECD8-10152043.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 16 Oct 2020 4:43  
Operator : MJB  
Sample : 0J15061-CALW  
Misc : A20F063, TOX 2000 ppb  
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PEST1.e  
Integration File signal 2: PEST2.e  
Quant Time: Oct 20 17:03:42 2020  
Quant Method : C:\msdchem\1\methods\ECD8\_QUANTPEST\_201015.M  
Quant Title : Instrument: DualECD8  
QLast Update : Tue Oct 20 17:00:33 2020  
Response via : Initial Calibration  
Integrator: ChemStation



**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)  
Benchsheet & Analysis Sequence Data**

Batch 0100764  
Sequence 0J22053 (A0J0344-07)



**Apex Laboratories**  
**PREPARATION BENCH SHEET**  
**BATCH #: 0100764 (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
1	0100764-BLK1	QC	10/22/20 10:40	<del>10</del> 11	5 ✓				100				
2	0100764-BS1	QC	10/22/20 10:40	10	5 ✓	A20J191		100	100				
3	A0J0344-07	A 8270E LL PAH Only (Scan)	10/22/20 10:40	<del>10</del> 10.15 sec 10.11 10/22/20	5 ✓				100	USMPDI-054SG-201009	Sed. (mud), * (S)		
4	0100764-DUP1	QC	10/22/20 10:40	<del>10</del> 10.11	5 ✓		A0J0344-07		100		Sed. (mud) (S)		
5	A0J0371-02	A 8270E LL PAH Only (Scan)	10/22/20 10:40	<del>10</del> 10.34	5 ✓				100	USMPDI-003SG-201011	Sed. (mud) (S)		
6	A0J0371-05	A 8270E LL PAH Only (Scan)	10/22/20 10:40	<del>10</del> 10.01	5 ✓				100	USMPDI-012SG-201010	Sed. (mud) (S)		
7	A0J0371-06	A 8270E LL PAH Only (Scan)	10/22/20 10:40	<del>10</del> 10.06	5 ✓				100	USMPDI-021SG-201010	Sed. (mud) (S)		
8	A0J0371-10	A 8270E LL PAH Only (Scan)	10/22/20 10:40	<del>10</del> 10.17	5 ✓				100	USMPDI-045SG-201010	Sed. (mud) (S)		
9	0100764-MS1	QC	10/22/20 10:40	<del>10</del> 10.23	5 ✓	A20J191	A0J0371-10	100	100		Sed. (mud) (S)		

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L219	11/30/23	Extractions Balance	A20J191	04/10/21	LVI PAH/PCP Spike @2000/5000ng/ml	A20H011	01/11/21	8270E LL PAH Only Surr. (5ppm)
A20B017	02/01/21	Glass Wool						
A20F023	11/29/22	Sodium Sulfate Lot # 196476						
A20H026	01/31/21	DCM CHEM PROD. DZ242-US						

Method 3546 digestion time and temperture achieved.

Initial: SCC

Witness: MEB 10/22/20

\* = Dryout, Reweighed and microswaved.

(S) = Staining on turbocap tube

SCC 10/22/2020  
Prepared By: \_\_\_\_\_ Date

CAS 10/22/2020  
Reviewed By: \_\_\_\_\_ Date





**Apex Laboratories**  
**PREPARATION BENCH SHEET**  
**BATCH #: 0100764 (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	Other	>11
	0100764-BLK1	QC	10/22/20 10:40	11	5				100					
	0100764-BS1	QC	10/22/20 10:40	10	5	A20J191		100	100					
	A0J0344-07	A 8270E LL PAH Only (Scan)	10/22/20 10:40	10.15	5				100	USMPDI-054SG-201009				
	0100764-DUP1	QC	10/22/20 10:40	10.11	5		A0J0344-07		100					
	A0J0371-02	A 8270E LL PAH Only (Scan)	10/22/20 10:40	10.34	5				100	USMPDI-003SG-201011				
	A0J0371-05	A 8270E LL PAH Only (Scan)	10/22/20 10:40	10.01	5				100	USMPDI-012SG-201010				
	A0J0371-06	A 8270E LL PAH Only (Scan)	10/22/20 10:40	10.06	5				100	USMPDI-021SG-201010				
	A0J0371-10	A 8270E LL PAH Only (Scan)	10/22/20 10:40	10.17	5				100	USMPDI-045SG-201010				
	0100764-MS1	QC	10/22/20 10:40	10.23	5	A20J191	A0J0371-10	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	A20J191	04/10/21	LVI PAH/PCP Spike @2000/5000ng/ml	A20H011	01/11/21	8270E LL PAH Only Surr. (5ppm)
A20B017	02/01/21	Glass Wool						
A20F023	11/29/22	Sodium Sulfate Lot # 196476						
A20H026	01/31/21	DCM CHEM PROD. DZ242-US						

Method 3546 digestion time and temperture achieved.

Initial: \_\_\_\_\_

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

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

Reviewed By: APL Date 10/23/20



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0J22053

Instrument: SV-GCMS14

Date: 10/22/20 10:50

Calibration: A0H1005

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J22053-TUN1	Sediment	QC	QC			A20J202	A20J205
2	0J22053-IBL1	Sediment	QC	QC			A20J202	
3	0J22053-CCV1	Sediment	QC	QC			A20J202	A20J299
4	0J22053-CCB1	Sediment	QC	QC			A20J202	
5	0100764-BLK1	Sediment	QC	QC		0100764	A20J202	
6	0100764-BS1	Sediment	QC	QC		0100764	A20J202	
7	A0J0344-07	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
8	0100764-DUP1	Sediment	QC	QC		0100764	A20J202	
9	A0J0371-10	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
10	0100764-MS1	Sediment	QC	QC		0100764	A20J202	
11	A0J0371-02	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
12	A0J0371-05	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
13	A0J0371-06	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
14	0J22053-IBL2	Sediment	QC	QC			A20J202	

Data Entered By/Date: HML 10/23/20

Comments:

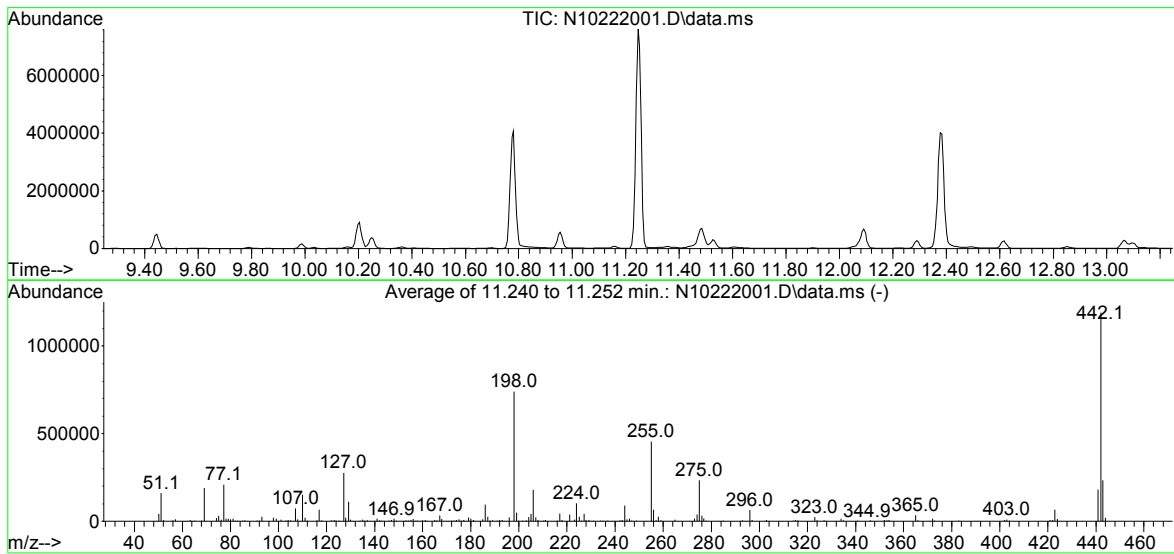
Data Reviewed By/Date: JK 10/23/20

10/23/2020 2:01:26PM

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222001.D  
 Acq On : 22 Oct 2020 03:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-TUN1  
 Misc : 1x, A20J283 DFTPP@25  
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : U:\methods\DFTPP.M  
 Title : 8270 DFTPP Tune Method  
 Last Update : Fri Aug 07 10:05:11 2020



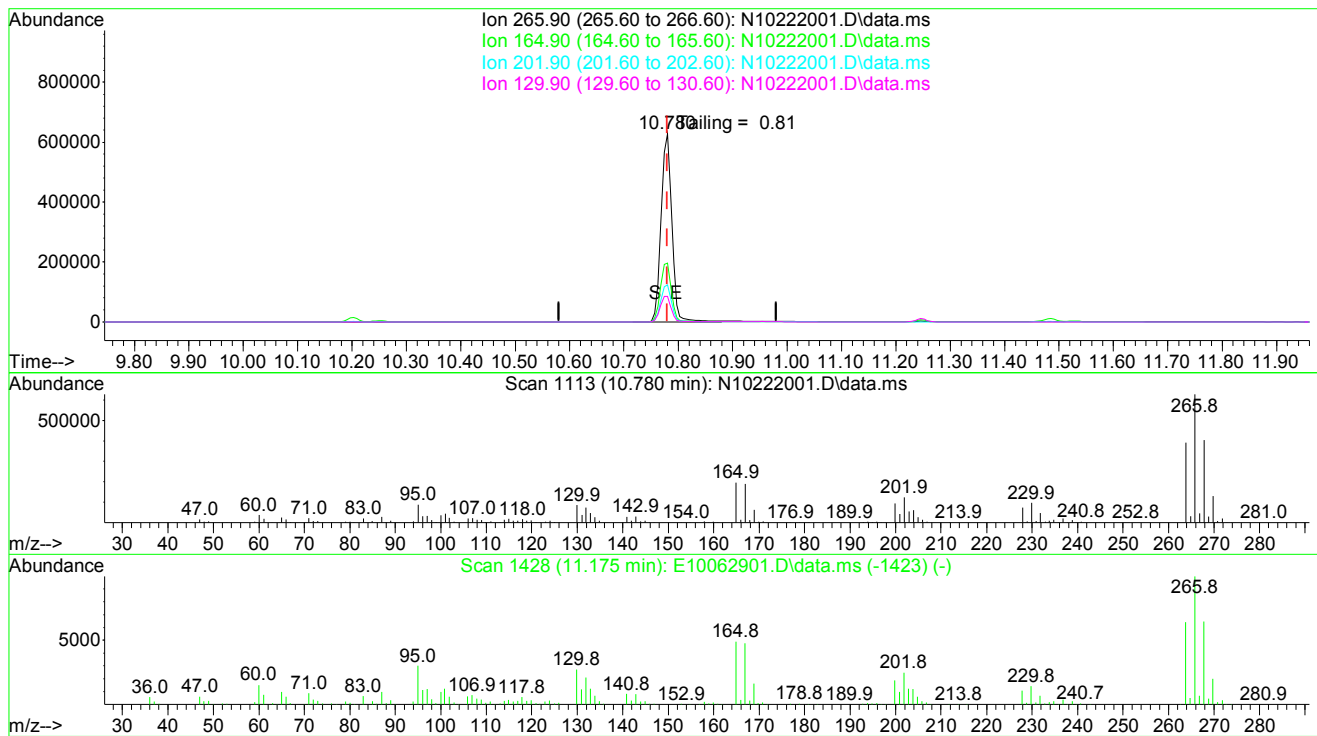
AutoFind: Scans 1192, 1193, 1194; Background Corrected with Scan 1186

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3420	PASS
69	69	100	100	100.0	190908	PASS
70	69	0.00	2	0.5	963	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	741120	PASS
199	198	5	9	6.8	50531	PASS
365	198	1	100	4.5	33459	PASS
441	443	0.01	150	77.8	181779	PASS
442	198	0.10	200	160.7	1191147	PASS
443	442	15	24	19.6	233771	PASS

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222001.D  
 Acq On : 22 Oct 2020 03:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-TUN1  
 Misc : 1x, A20J283 DFTPP@25  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020  
 Quant Method : C:\GCMS\1\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Fri Aug 07 10:05:11 2020  
 Response via : Initial Calibration



TIC: N10222001.D\data.ms

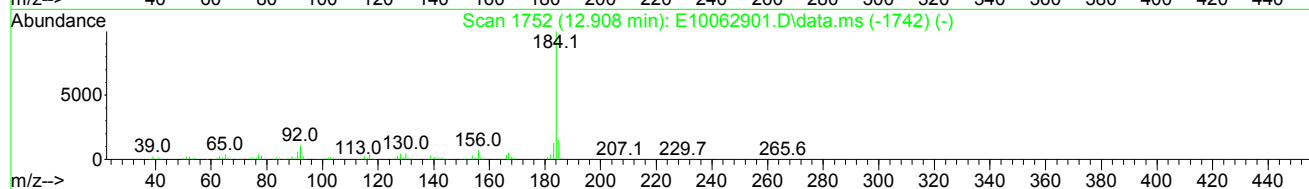
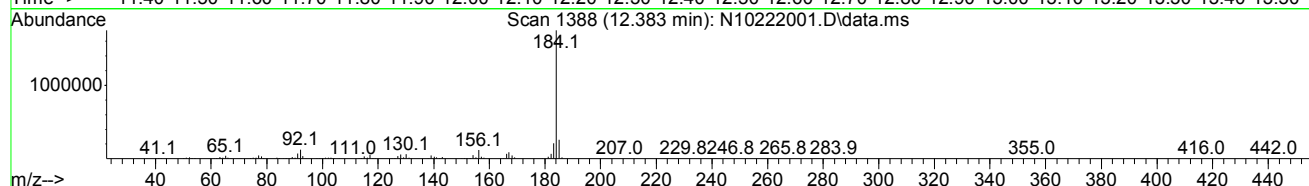
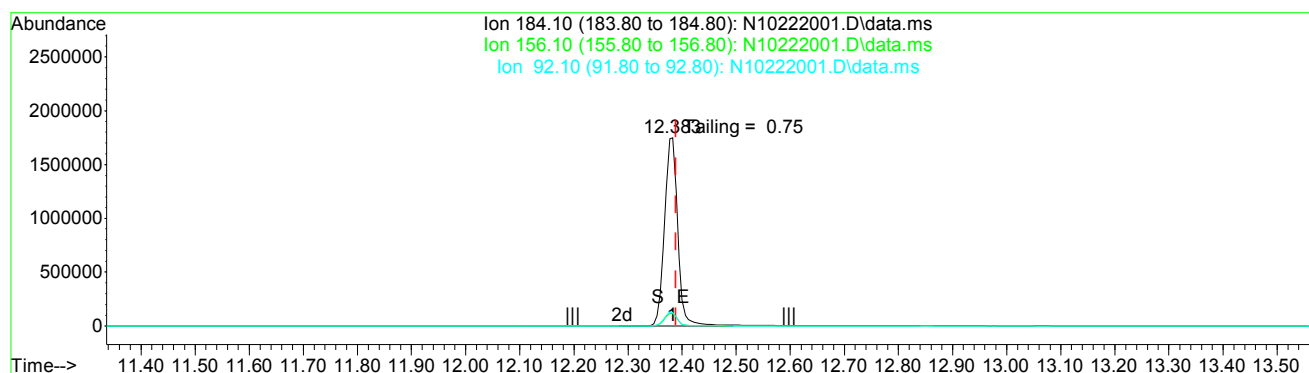
(4) Pentachlorophenol  
 10.780min (-0.000) 63.79 ug/mL  
 response 872109

Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	31.27
201.90	25.80	19.67
129.90	27.30	13.68

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222001.D  
 Acq On : 22 Oct 2020 03:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-TUN1  
 Misc : 1x, A20J283 DFTPP@25  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020  
 Quant Method : C:\GCMS\1\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Fri Aug 07 10:05:11 2020  
 Response via : Initial Calibration



TIC: N10222001.D\data.ms

(7) Benzidine

12.383min (-0.006) 28.22 ug/mL

response 2957402

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.63
92.10	8.20	7.00
0.00	0.00	0.00

### DDT Breakdown Check (Validated 5/1/2013)

From:  
0J22053-TUN1  
SV-GCMS14

First Column Area Counts		Percent Breakdown	
DDE	355462		
DDD	257177		
DDT	10963619	<b>5.29</b>	<b>PASS</b>

Breakdown must be less than 20% to accept sample data.

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222001.D  
 Acq On : 22 Oct 2020 03:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-TUN1  
 Misc : 1x, A20J283 DFTPP@25  
 ALS Vial : 1 Sample Multiplier: 1  
 DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020  
 Quant Method : C:\GCMS\1\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Fri Aug 07 10:05:11 2020  
 Response via : Initial Calibration

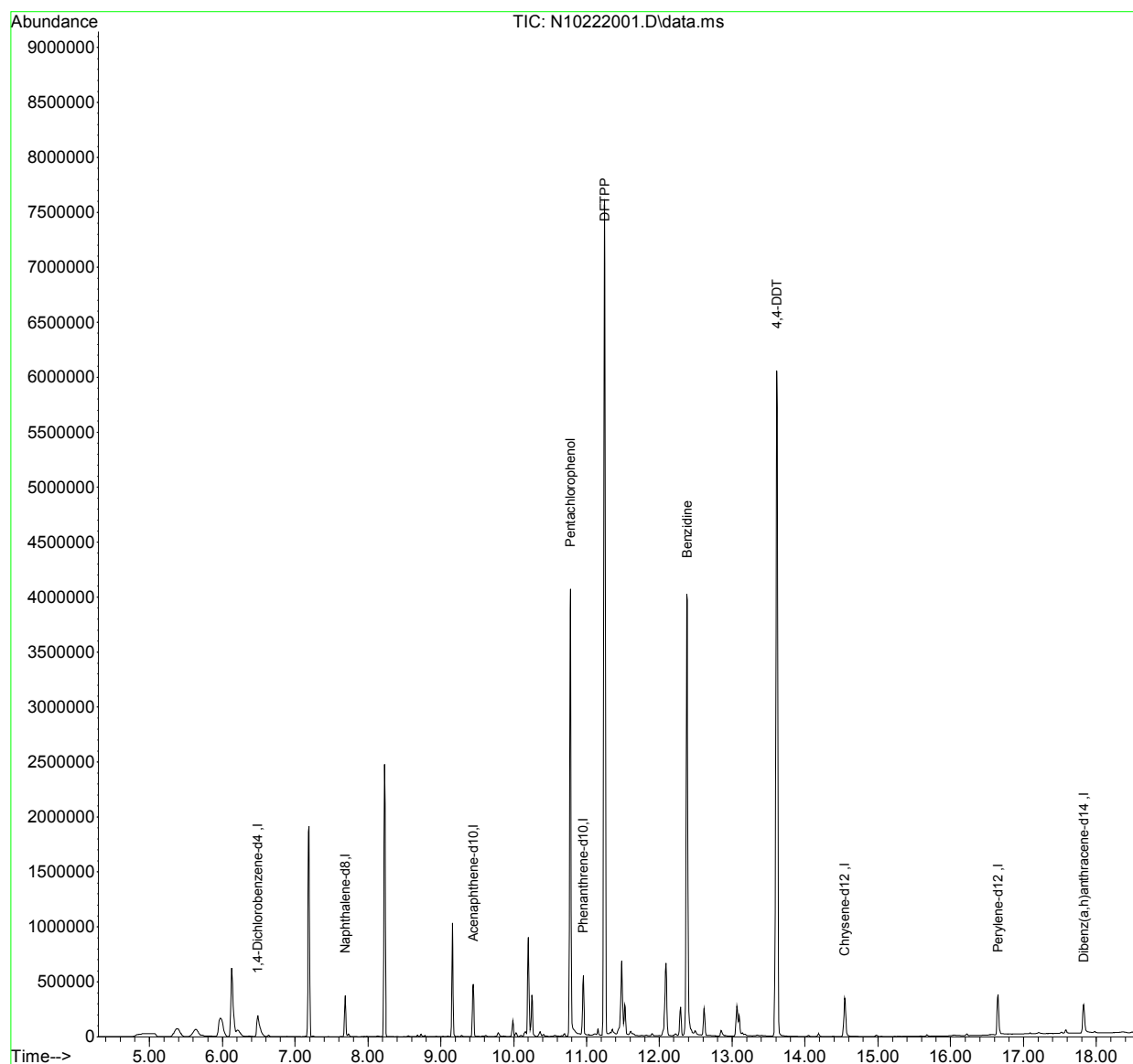
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.484	150	110134	2.00	ug/mL	0.00
2) Naphthalene-d8	7.685	136	266455	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.445	162	144787	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.955	188	294550	2.00	ug/mL	0.00
11) Chrysene-d12	14.545	240	256784	2.00	ug/mL	0.00
12) Perylene-d12	16.649	264	227894	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.827	292	206411	2.00	ug/mL	# 0.00
-----						
Target Compounds						Qvalue
4) Pentachlorophenol	10.780	266	872109	63.79	ug/mL	76
6) DFTPP	11.252	442	1887124	79.36	ug/mL#	58
7) Benzidine	12.383	184	2957402	28.22	ug/mL	96
8) 4,4-DDE	12.616	TIC	355462	No Calib		
9) 4,4-DDD	13.094	TIC	257177	No Calib		
10) 4,4-DDT	13.613	TIC	10963619	36.30	ug/mL	93
-----						

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
Data File : N10222001.D  
Acq On : 22 Oct 2020 03:05 pm  
Operator : JK/ AMS/ DTH  
Sample : 0J22053-TUN1  
Misc : 1x, A20J283 DFTPP@25  
ALS Vial : 1 Sample Multiplier: 1  
DataAcq Meth:DFTPP.M

Quant Time: Oct 22 15:29:13 2020  
Quant Method : C:\GCMS\1\methods\DFTPP.M  
Quant Title : 8270 DFTPP Tune Method  
QLast Update : Fri Aug 07 10:05:11 2020  
Response via : Initial Calibration





Evaluate Continuing Calibration Report

AML 10/23/20

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222003.D  
 Acq On : 22 Oct 2020 04:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCV1  
 Misc : 1x, A20J299@100  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:04 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

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	109	0.00
2 S	Nitrobenzene-d5 (Surr)	100.000	93.308	6.7	101	0.00
3 T	Decalin	100.000	90.736	9.3	96	0.00
4 T	Naphthalene	100.000	94.715	5.3	106	0.00
5 T	2-Methylnaphthalene	100.000	99.618	0.4	104	0.00
6 T	1-Methylnaphthalene	100.000	96.038	4.0	102	0.00
7 T	1,1'-Biphenyl	100.000	98.633	1.4	103	0.00
8 T	2,6-Dimethylnaphthalene	100.000	98.303	1.7	101	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	100	0.00
10 S	2-Fluorobiphenyl (Surr)	100.000	102.860	-2.9	100	0.00
11 T	Acenaphthylene	100.000	106.491	-6.5	100	0.00
12 T	Acenaphthene	100.000	96.682	3.3	97	0.00
13 T	Dibenzofuran	100.000	109.834	-9.8	104	0.00
14 T	1,6,7-Trimethylnaphthalene	100.000	98.254	1.7	95	0.00
15 T	Fluorene	100.000	101.232	-1.2	94	0.00
16 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	98	0.00
17 S	2,4,6-Tribromophenol (Surr)	100.000	75.365	24.6#	72	0.00
18 T	Pentachlorophenol (PCP)	100.000	64.154	35.8#	57	0.00
19 T	Dibenzothiopene	100.000	100.610	-0.6	97	0.00
20 T	Phenanthrene	100.000	96.881	3.1	97	0.00
21 T	Anthracene	100.000	105.199	-5.2	98	0.00
22 T	Carbazole	100.000	101.349	-1.3	92	0.00
23 T	1-Methylphenanthrene	100.000	97.236	2.8	92	0.00
24 T	Fluoranthene	100.000	99.465	0.5	91	0.00
25 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	95	0.00
26 T	Pyrene	100.000	100.697	-0.7	91	0.00
27 S	Terphenyl-d14 (Surr)	100.000	105.988	-6.0	98	0.00
28 T	Benz(a)anthracene	100.000	95.354	4.6	94	0.00
29 T	Chrysene	100.000	99.460	0.5	94	0.00

Evaluate Continuing Calibration Report

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222003.D  
 Acq On : 22 Oct 2020 04:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCV1  
 Misc : 1x, A20J299@100  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:04 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

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)
30	I Perylene-d12 (ISTD)	100.000	100.000	0.0	90	0.00
31	T Benzo(b)fluoranthene	100.000	97.895	2.1	86	0.00
32	T Benzo(k)fluoranthene	100.000	104.850	-4.8	90	0.00
33	T Benzo(b+k)fluoranthene	200.000	204.685	-2.3	89	0.00
34	T Benzo(e)pyrene	100.000	103.537	-3.5	89	0.00
35	T Benzo(a)pyrene	100.000	101.537	-1.5	87	0.00
36	T Perylene	100.000	101.332	-1.3	91	0.00
37	I Dibenz(a,h)Anthrcene-d14 (IS	100.000	100.000	0.0	87	0.00
38	T Indeno(1,2,3-cd)Pyrene	100.000	93.549	6.5	80	0.00
39	T Dibenz(a,h)anthracene	100.000	94.820	5.2	79	0.00
40	T Benzo(g,h,i)perylene	100.000	99.458	0.5	81	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222003.D  
 Acq On : 22 Oct 2020 04:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCV1  
 Misc : 1x, A20J299@100  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:04 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.743	136	262328	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	160377	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	305267	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.633	240	260148	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	221037	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.467	292	163573	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.055	82	68569	93.31	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	235866	102.86	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	28656	75.36	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.732	244	265100	105.99	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.219	138	14131	90.74	ng/ml		82
4) Naphthalene	7.761	128	256221	94.72	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	194859	99.62	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	187984	96.04	ng/ml		97
7) 1,1'-Biphenyl	8.909	154	245531	98.63	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.066	156	179338	98.30	ng/ml		96
11) Acenaphthylene	9.346	152	286254	106.49	ng/ml		99
12) Acenaphthene	9.521	153	189908	96.68	ng/ml		99
13) Dibenzofuran	9.696	168	271248	109.83	ng/ml		94
14) 1,6,7-Trimethylnaphtha...	9.906	170	174989	98.25	ng/ml		99
15) Fluorene	10.045	166	202433	101.23	ng/ml		99
18) Pentachlorophenol (PCP)	10.815	266	9181	64.15	ng/ml		97
19) Dibenzothiopene	10.891	184	298247	100.61	ng/ml		93
20) Phenanthrene	11.019	178	320083	96.88	ng/ml		99
21) Anthracene	11.071	178	284685	105.20	ng/ml		99
22) Carbazole	11.235	167	203877	101.35	ng/ml		98
23) 1-Methylphenanthrene	11.643	192	230990	97.24	ng/ml		98
24) Fluoranthene	12.260	202	340891	99.47	ng/ml		95
26) Pyrene	12.534	202	350766	100.70	ng/ml		99
28) Benz(a)anthracene	14.615	228	247991	95.35	ng/ml		99
29) Chrysene	14.691	228	267278	99.46	ng/ml		99

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222003.D  
 Acq On : 22 Oct 2020 04:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCV1  
 Misc : 1x, A20J299@100  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:04 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

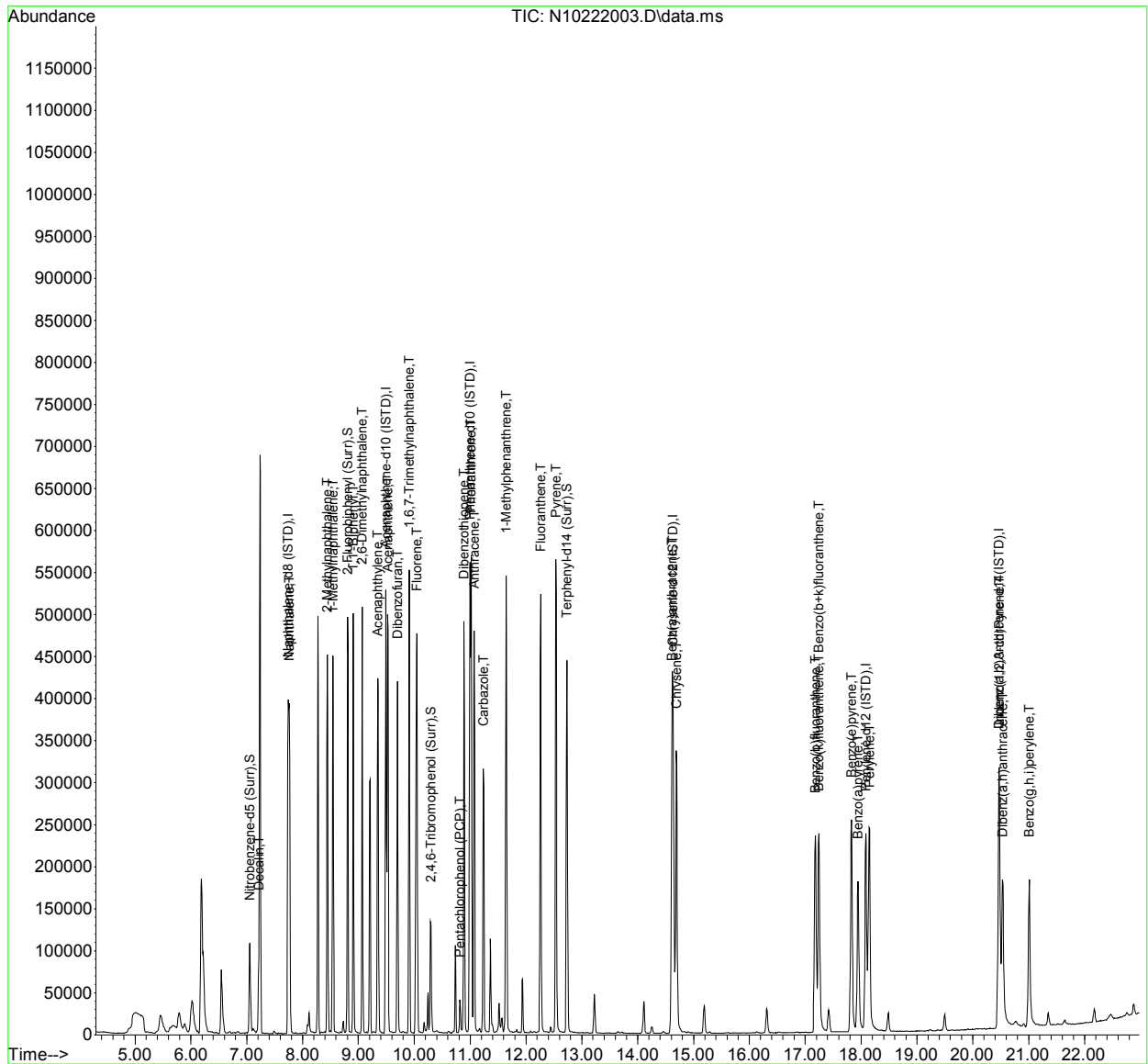
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	219411	97.90	ng/ml	91
32) Benzo(k)fluoranthene	17.244	252	221701	104.85	ng/ml	90
33) Benzo(b+k)fluoranthene	17.244	252	466888	204.68	ng/ml	90
34) Benzo(e)pyrene	17.827	252	230782	103.54	ng/ml	97
35) Benzo(a)pyrene	17.943	252	164996	101.54	ng/ml	95
36) Perylene	18.147	252	244490	101.33	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	164689	93.55	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	164126	94.82	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	178021	99.46	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222003.D  
 Acq On : 22 Oct 2020 04:05 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCV1  
 Misc : 1x, A20J299@100  
 ALS Vial : 2 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:04 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



HML 10/23/20

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222004.D  
 Acq On : 22 Oct 2020 04:37 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 3 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:48 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	242049	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	152210	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	281216	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	206900	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	185109	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.467	292	158429	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.114	82	83	0.12	ng/ml	0.06
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml	
17) 2,4,6-Tribromophenol (...)	0.000	330	0	0.00	ng/ml	
27) Terphenyl-d14 (Surr)	12.733	244	71	0.04	ng/ml	0.00
Target Compounds						
3) Decalin	0.000		0		N.D.	Qvalue
4) Naphthalene	7.767	128	161		N.D.	
5) 2-Methylnaphthalene	8.443	142	55		N.D.	
6) 1-Methylnaphthalene	0.000		0		N.D.	
7) 1,1'-Biphenyl	8.909	154	51		N.D.	
8) 2,6-Dimethylnaphthalene	0.000		0		N.D.	
11) Acenaphthylene	9.352	152	79		N.D.	
12) Acenaphthene	0.000		0		N.D.	
13) Dibenzofuran	9.702	168	55		N.D.	
14) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.	
15) Fluorene	0.000		0		N.D.	
18) Pentachlorophenol (PCP)	10.821	266	176	10.20	ng/ml	88
19) Dibenzothiopene	10.891	184	133		N.D.	
20) Phenanthrene	11.019	178	321		N.D.	
21) Anthracene	11.071	178	162		N.D.	
22) Carbazole	11.240	167	256		N.D.	
23) 1-Methylphenanthrene	0.000		0		N.D.	
24) Fluoranthene	12.266	202	88		N.D.	
26) Pyrene	12.540	202	101		N.D.	
28) Benz(a)anthracene	14.633	228	576		N.D.	
29) Chrysene	14.685	228	139		N.D.	

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222004.D  
 Acq On : 22 Oct 2020 04:37 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0J22053-CCB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 3 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:48 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

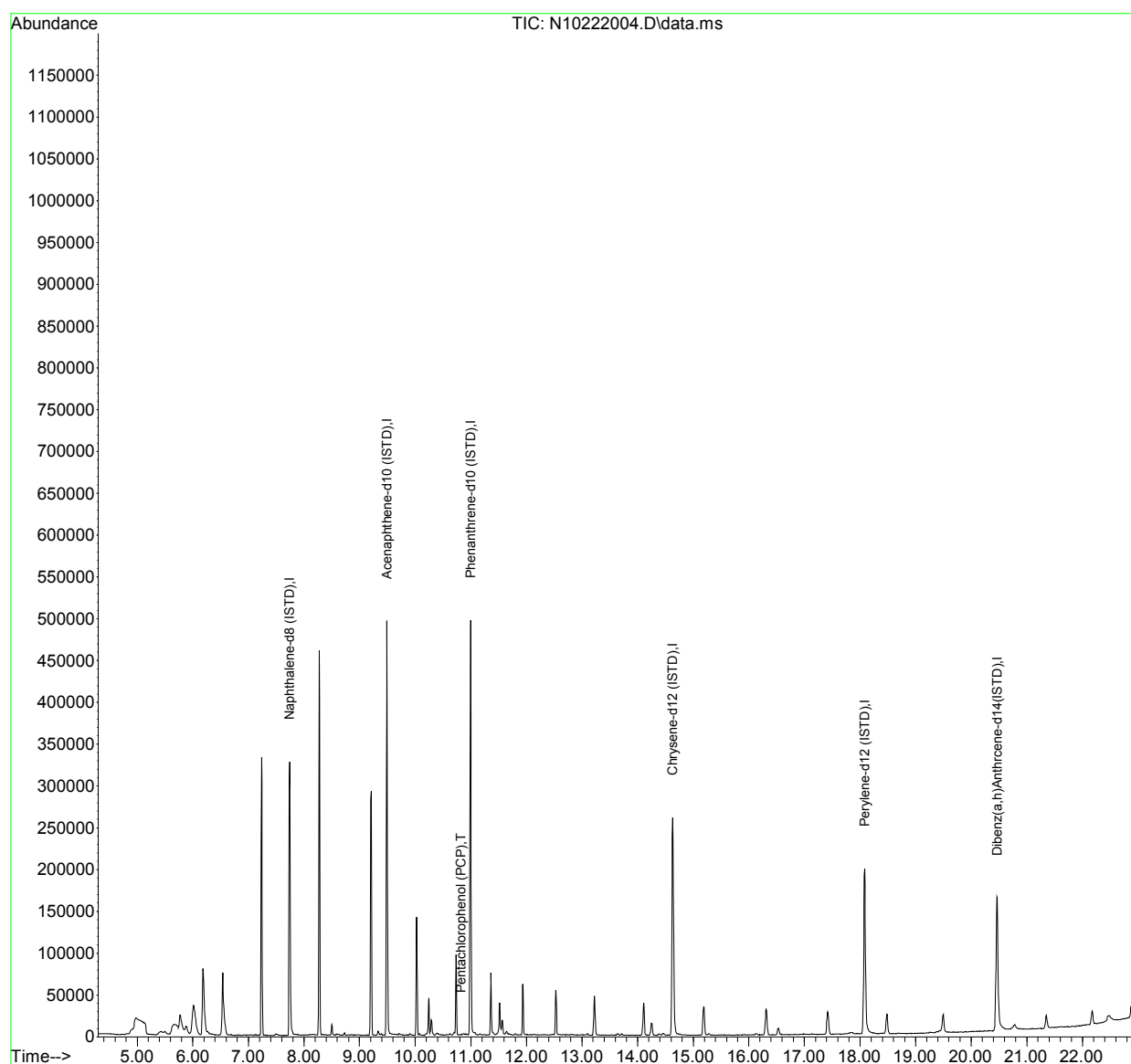
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	75			N.D.
32) Benzo(k)fluoranthene	17.180	252	75			N.D.
33) Benzo(b+k)fluoranthene	17.180	252	75			N.D.
34) Benzo(e)pyrene	17.827	252	82			N.D.
35) Benzo(a)pyrene	17.943	252	63			N.D.
36) Perylene	18.142	252	61			N.D.
38) Indeno(1,2,3-cd)Pyrene	20.467	276	222			N.D.
39) Dibenz(a,h)anthracene	20.531	278	120			N.D.
40) Benzo(g,h,i)perylene	0.000		0			N.D.

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
Data File : N10222004.D  
Acq On : 22 Oct 2020 04:37 pm  
Operator : JK/ AMS/ DTH  
Sample : 0J22053-CCB1  
Misc : 1x, DCM + ISTD  
ALS Vial : 3 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:34:48 2020  
Quant Method : U:\methods\SV14\_080720.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Mon Aug 10 09:22:10 2020  
Response via : Initial Calibration





AML 10/23/20

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222005.D  
 Acq On : 22 Oct 2020 05:09 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-BLK1  
 Misc : 1x, 8270E LL PAH ONLY  
 ALS Vial : 4 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:36:01 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	249163	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	159162	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	313430	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	282228	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	268366	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	230260	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.050	82	59030	84.57	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	207607	91.23	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.296	330	40542	102.51	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	293359	108.11	ng/ml	0.00
Target Compounds						
3) Decalin	0.000		0		N.D.	Qvalue
4) Naphthalene	7.761	128	1672	0.65	ng/ml	95
5) 2-Methylnaphthalene	8.443	142	471		N.D.	
6) 1-Methylnaphthalene	8.542	142	272		N.D.	
7) 1,1'-Biphenyl	8.909	154	840		N.D.	
8) 2,6-Dimethylnaphthalene	9.072	156	319		N.D.	
11) Acenaphthylene	9.346	152	516		N.D.	
12) Acenaphthene	9.521	153	447		N.D.	
13) Dibenzofuran	9.702	168	277		N.D.	
14) 1,6,7-Trimethylnaphtha...	9.912	170	212		N.D.	
15) Fluorene	10.046	166	336		N.D.	
18) Pentachlorophenol (PCP)	10.827	266	569	12.60	ng/ml	89
19) Dibenzothiopene	10.891	184	433		N.D.	
20) Phenanthrene	11.019	178	3646	1.07	ng/ml	97
21) Anthracene	11.072	178	676		N.D.	
22) Carbazole	11.241	167	351		N.D.	
23) 1-Methylphenanthrene	11.637	192	463		N.D.	
24) Fluoranthene	12.261	202	2572	0.73	ng/ml	96
26) Pyrene	12.540	202	2998	0.79	ng/ml	97
28) Benz(a)anthracene	14.615	228	1845	0.65	ng/ml	92
29) Chrysene	14.691	228	1993	0.68	ng/ml	97

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222005.D  
 Acq On : 22 Oct 2020 05:09 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-BLK1  
 Misc : 1x, 8270E LL PAH ONLY  
 ALS Vial : 4 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:36:01 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

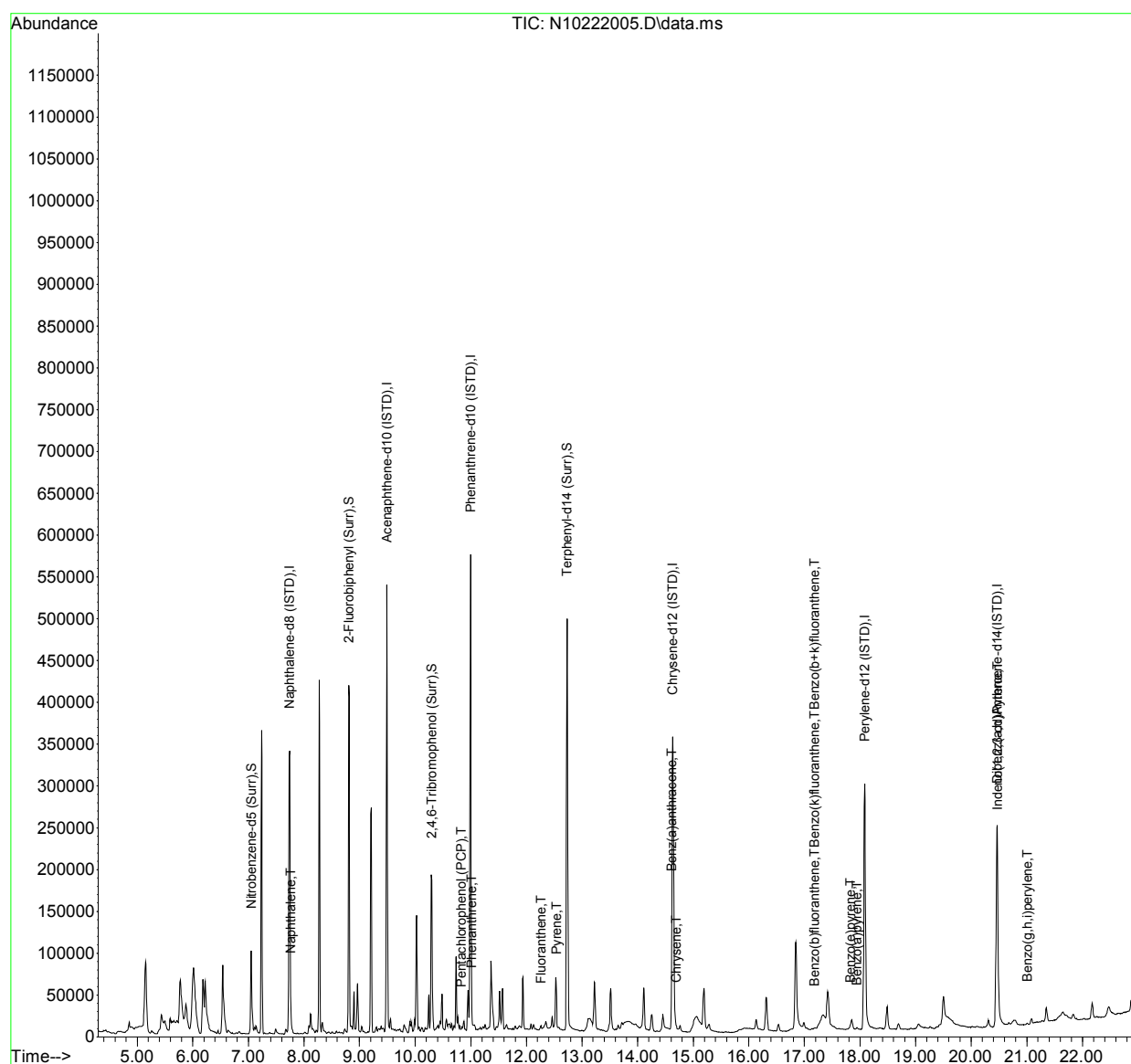
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	2706	0.99	ng/ml	89
32) Benzo(k)fluoranthene	17.180	252	3646	1.42	ng/ml	87
33) Benzo(b+k)fluoranthene	17.180	252	3930	1.42	ng/ml	87
34) Benzo(e)pyrene	17.827	252	1866	0.69	ng/ml	87
35) Benzo(a)pyrene	17.943	252	2060	1.04	ng/ml	96
36) Perylene	18.147	252	997	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.473	276	2558	1.03	ng/ml	96
39) Dibenz(a,h)anthracene	20.526	278	480	N.D.		
40) Benzo(g,h,i)perylene	21.009	276	2381	0.94	ng/ml	84

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
Data File : N10222005.D  
Acq On : 22 Oct 2020 05:09 pm  
Operator : JK/ AMS/ DTH  
Sample : 0100764-BLK1  
Misc : 1x, 8270E LL PAH ONLY  
ALS Vial : 4 Sample Multiplier: 1  
DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:36:01 2020  
Quant Method : U:\methods\SV14\_080720.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Mon Aug 10 09:22:10 2020  
Response via : Initial Calibration



AML 10/23/20

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222006.D  
 Acq On : 22 Oct 2020 05:41 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-BS1  
 Misc : 1x, 8270E LL PAH ONLY  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:05 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	250949	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	165335	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	326376	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	292477	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	266297	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.461	292	216323	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.044	82	60931	86.67	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	222433	94.09	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.290	330	42156	102.37	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.727	244	297841	105.92	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.213	138	4585	30.78	ng/ml	79
4) Naphthalene	7.761	128	96488	37.29	ng/ml	100
5) 2-Methylnaphthalene	8.443	142	75402	40.30	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	71694	38.29	ng/ml	97
7) 1,1'-Biphenyl	8.903	154	95695	40.19	ng/ml	96
8) 2,6-Dimethylnaphthalene	9.066	156	70754	40.54	ng/ml	97
11) Acenaphthylene	9.346	152	113661	41.02	ng/ml	98
12) Acenaphthene	9.521	153	80308	39.66	ng/ml	99
13) Dibenzofuran	9.696	168	108111	42.46	ng/ml	93
14) 1,6,7-Trimethylnaphtha...	9.906	170	69180	37.68	ng/ml	99
15) Fluorene	10.040	166	88292	42.83	ng/ml	100
18) Pentachlorophenol (PCP)	10.815	266	17613	101.78	ng/ml	99
19) Dibenzothiopene	10.891	184	119806	37.80	ng/ml	93
20) Phenanthrene	11.019	178	136015	38.51	ng/ml	99
21) Anthracene	11.071	178	123593	42.72	ng/ml	99
22) Carbazole	11.235	167	93001	43.24	ng/ml	99
23) 1-Methylphenanthrene	11.643	192	97938	38.56	ng/ml	98
24) Fluoranthene	12.260	202	148427	40.51	ng/ml	94
26) Pyrene	12.534	202	151484	38.68	ng/ml	99
28) Benz(a)anthracene	14.609	228	113989	38.98	ng/ml	99
29) Chrysene	14.691	228	118851	39.34	ng/ml	100

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222006.D  
 Acq On : 22 Oct 2020 05:41 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-BS1  
 Misc : 1x, 8270E LL PAH ONLY  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:05 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

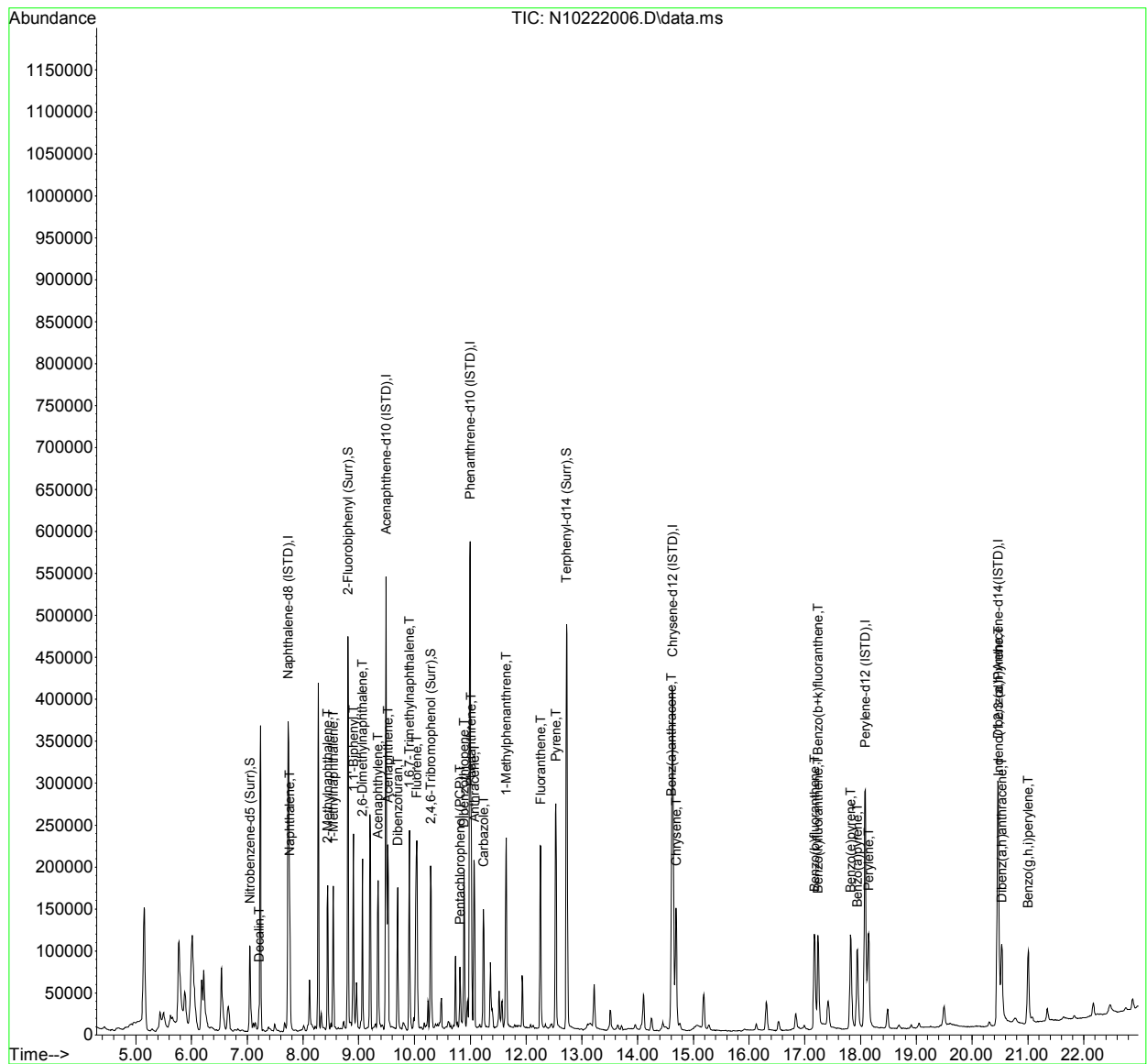
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.174	252	108576	40.21	ng/ml	92
32) Benzo(k)fluoranthene	17.238	252	100868	39.60	ng/ml	91
33) Benzo(b+k)fluoranthene	17.238	252	221199	80.49	ng/ml	91
34) Benzo(e)pyrene	17.821	252	102661	38.23	ng/ml	98
35) Benzo(a)pyrene	17.943	252	88956	45.44	ng/ml	95
36) Perylene	18.141	252	109193	37.56	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	80098	34.40	ng/ml	76
39) Dibenz(a,h)anthracene	20.531	278	83838	36.62	ng/ml	78
40) Benzo(g,h,i)perylene	21.003	276	88686	37.47	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222006.D  
 Acq On : 22 Oct 2020 05:41 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-BS1  
 Misc : 1x, 8270E LL PAH ONLY  
 ALS Vial : 5 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:05 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



AML 10/23/20

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

M05

Quant Time: Oct 23 11:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	265841	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	159251	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	296372	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	265657	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	251389	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	206744	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	352	0.47	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.804	172	897	0.39	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.296	330	63	2.09	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	1234	0.48	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.324	138	108	0.68	ng/ml#	18
4) Naphthalene	7.761	128	10732	3.91	ng/ml	98
5) 2-Methylnaphthalene	8.443	142	3128	1.58	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	1703	0.86	ng/ml	98
7) 1,1'-Biphenyl	8.909	154	1055	0.42	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.072	156	2126	1.15	ng/ml	95
11) Acenaphthylene	9.346	152	6601	2.47	ng/ml	96
12) Acenaphthene	9.521	153	5744	2.94	ng/ml	96
13) Dibenzofuran	9.696	168	1129	0.46	ng/ml	83
14) 1,6,7-Trimethylnaphtha...	9.906	170	1287	0.73	ng/ml	91
15) Fluorene	10.046	166	4675	2.35	ng/ml	97
18) Pentachlorophenol (PCP)	10.827	266	74	9.44	ng/ml#	42
19) Dibenzothiopene	10.891	184	6321	2.20	ng/ml	96
20) Phenanthrene	11.019	178	56926	17.75	ng/ml	99
21) Anthracene	11.071	178	15109	5.75	ng/ml	98
22) Carbazole	11.241	167	2526	1.29	ng/ml	89
23) 1-Methylphenanthrene	11.643	192	5756	2.50	ng/ml	99
24) Fluoranthene	12.261	202	90370	27.16	ng/ml	99
26) Pyrene	12.534	202	122144	34.34	ng/ml	99
28) Benz(a)anthracene	14.609	228	41911	15.78	ng/ml	88
29) Chrysene	14.691	228	53654	19.55	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	45428	17.82	ng/ml	90
32) Benzo(k)fluoranthene	17.238	252	15452m	6.43	ng/ml	
33) Benzo(b+k)fluoranthene	17.180	252	64411	24.83	ng/ml	88
34) Benzo(e)pyrene	17.821	252	32116	12.67	ng/ml	97
35) Benzo(a)pyrene	17.943	252	42469	22.98	ng/ml	95
36) Perylene	18.142	252	12636	4.60	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	28042	12.60	ng/ml	78
39) Dibenz(a,h)anthracene	20.526	278	4525	2.07	ng/ml	86
40) Benzo(g,h,i)perylene	21.009	276	35467	15.68	ng/ml	76

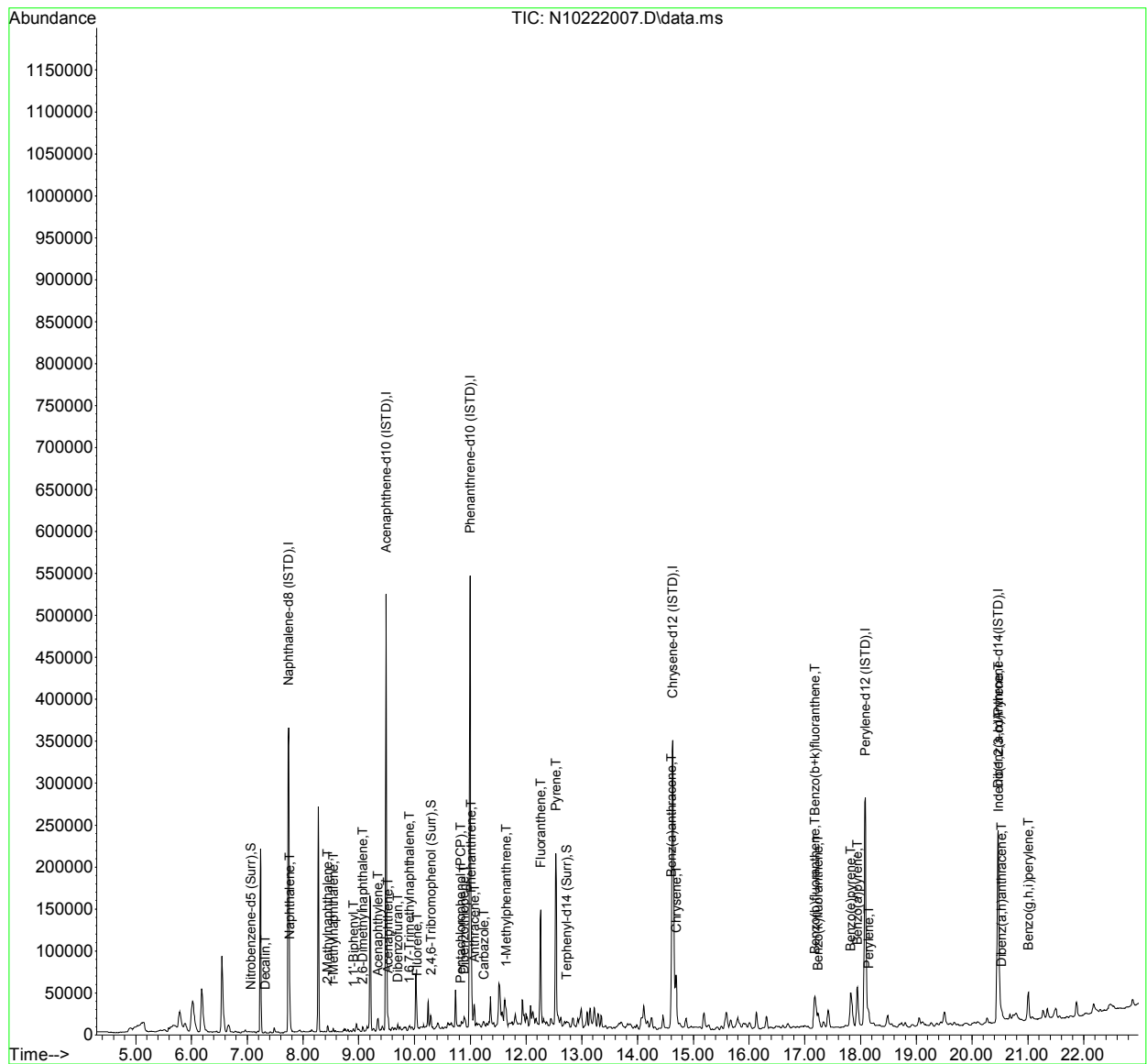
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	265841	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	159251	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	296372	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	265657	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	251389	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	206744	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	352	0.47	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.804	172	897	0.39	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.296	330	63	2.09	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	1234	0.48	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.324	138	108	0.68	ng/ml#	18
4) Naphthalene	7.761	128	10732	3.91	ng/ml	98
5) 2-Methylnaphthalene	8.443	142	3128	1.58	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	1703	0.86	ng/ml	98
7) 1,1'-Biphenyl	8.909	154	1055	0.42	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.072	156	2126	1.15	ng/ml	95
11) Acenaphthylene	9.346	152	6601	2.47	ng/ml	96
12) Acenaphthene	9.521	153	5744	2.94	ng/ml	96
13) Dibenzofuran	9.696	168	1129	0.46	ng/ml	83
14) 1,6,7-Trimethylnaphtha...	9.906	170	1287	0.73	ng/ml	91
15) Fluorene	10.046	166	4675	2.35	ng/ml	97
18) Pentachlorophenol (PCP)	10.827	266	74	9.44	ng/ml#	42
19) Dibenzothiopene	10.891	184	6321	2.20	ng/ml	96
20) Phenanthrene	11.019	178	56926	17.75	ng/ml	99
21) Anthracene	11.071	178	15109	5.75	ng/ml	98
22) Carbazole	11.241	167	2526	1.29	ng/ml	89
23) 1-Methylphenanthrene	11.643	192	5756	2.50	ng/ml	99
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26) Pyrene	12.534	202	122144	34.34	ng/ml	99
28) Benz(a)anthracene	14.609	228	41911	15.78	ng/ml	88
29) Chrysene	14.691	228	53654	19.55	ng/ml	96

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

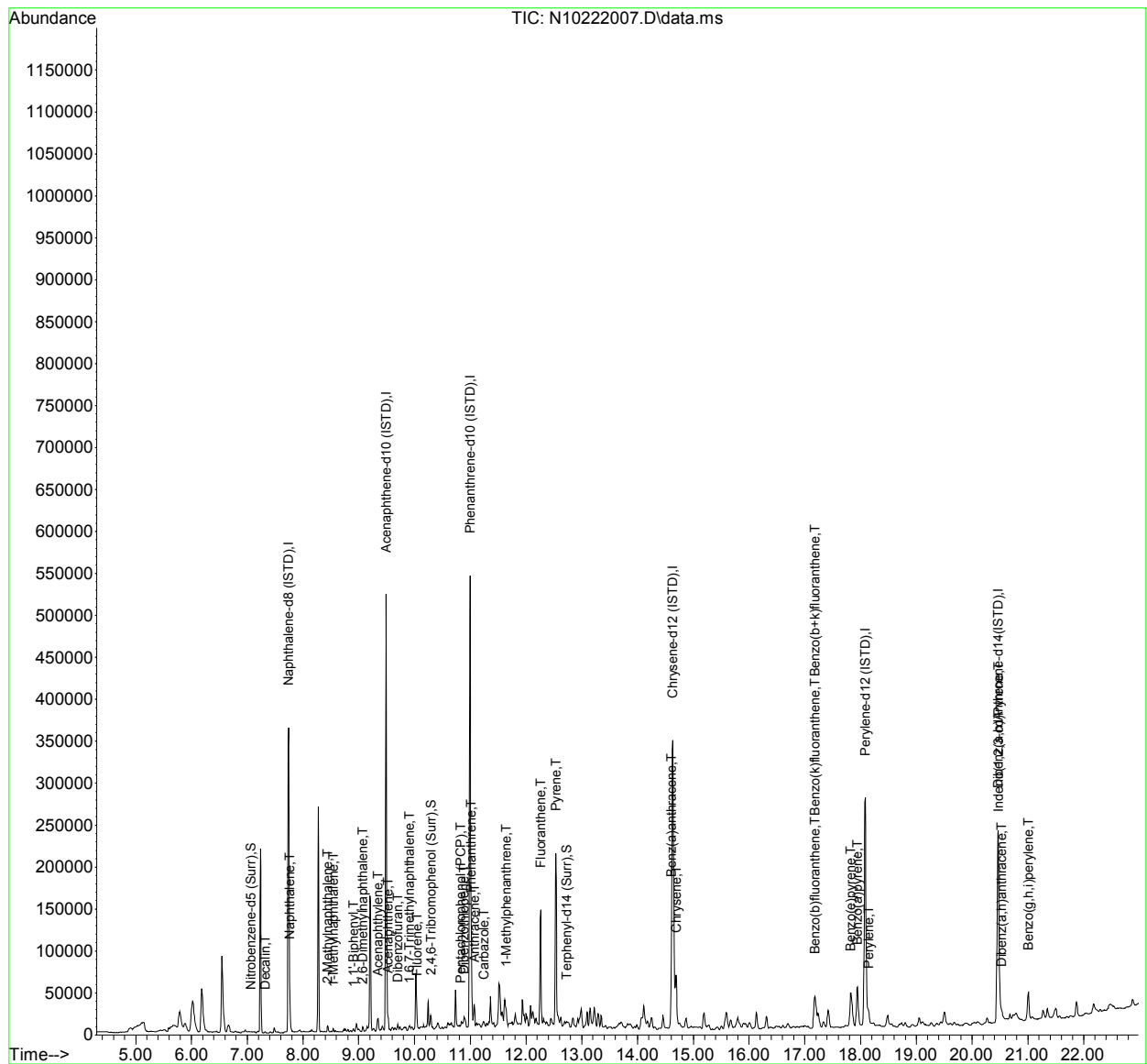
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	45428	17.82	ng/ml	90
32) Benzo(k)fluoranthene	17.180	252	56890	23.66	ng/ml	88
33) Benzo(b+k)fluoranthene	17.180	252	64411	24.83	ng/ml	88
34) Benzo(e)pyrene	17.821	252	32116	12.67	ng/ml	97
35) Benzo(a)pyrene	17.943	252	42469	22.98	ng/ml	95
36) Perylene	18.142	252	12636	4.60	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	28042	12.60	ng/ml	78
39) Dibenz(a,h)anthracene	20.526	278	4525	2.07	ng/ml	86
40) Benzo(g,h,i)perylene	21.009	276	35467	15.68	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

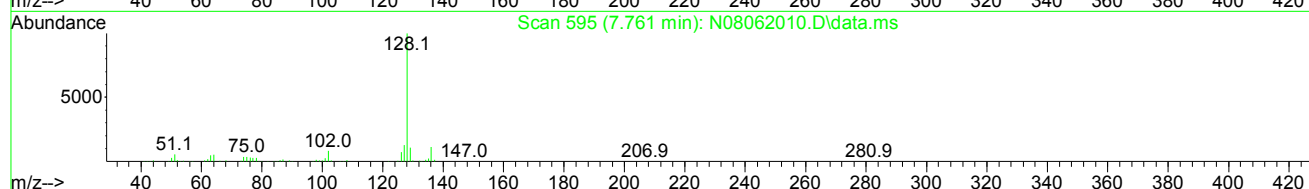
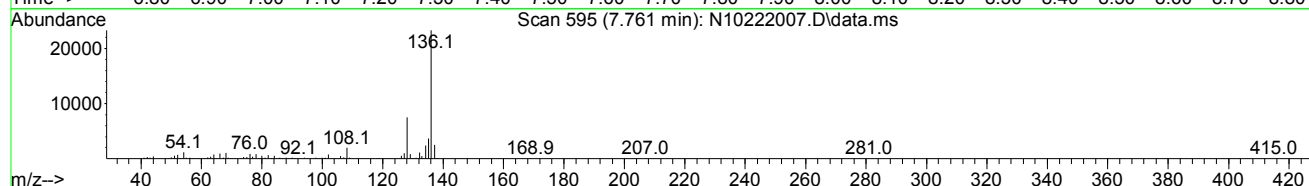
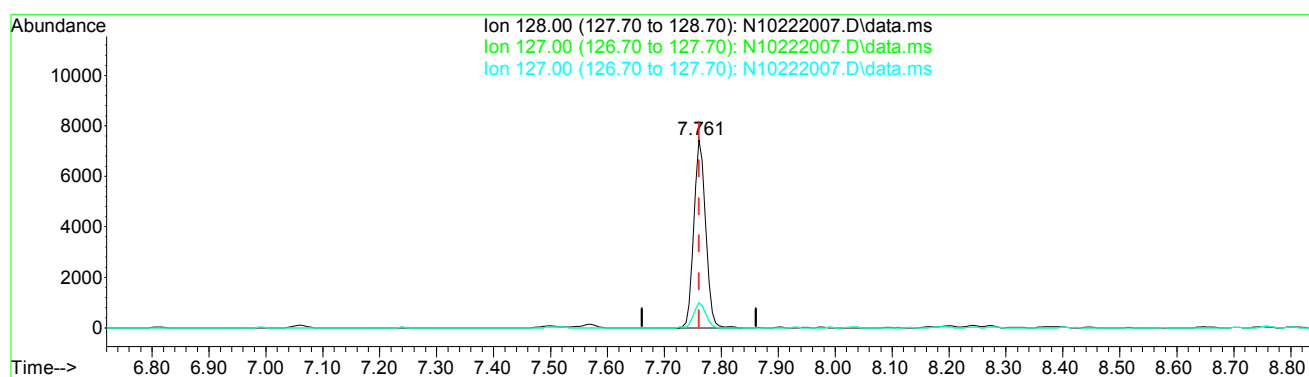
Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(4) Naphthalene (T)

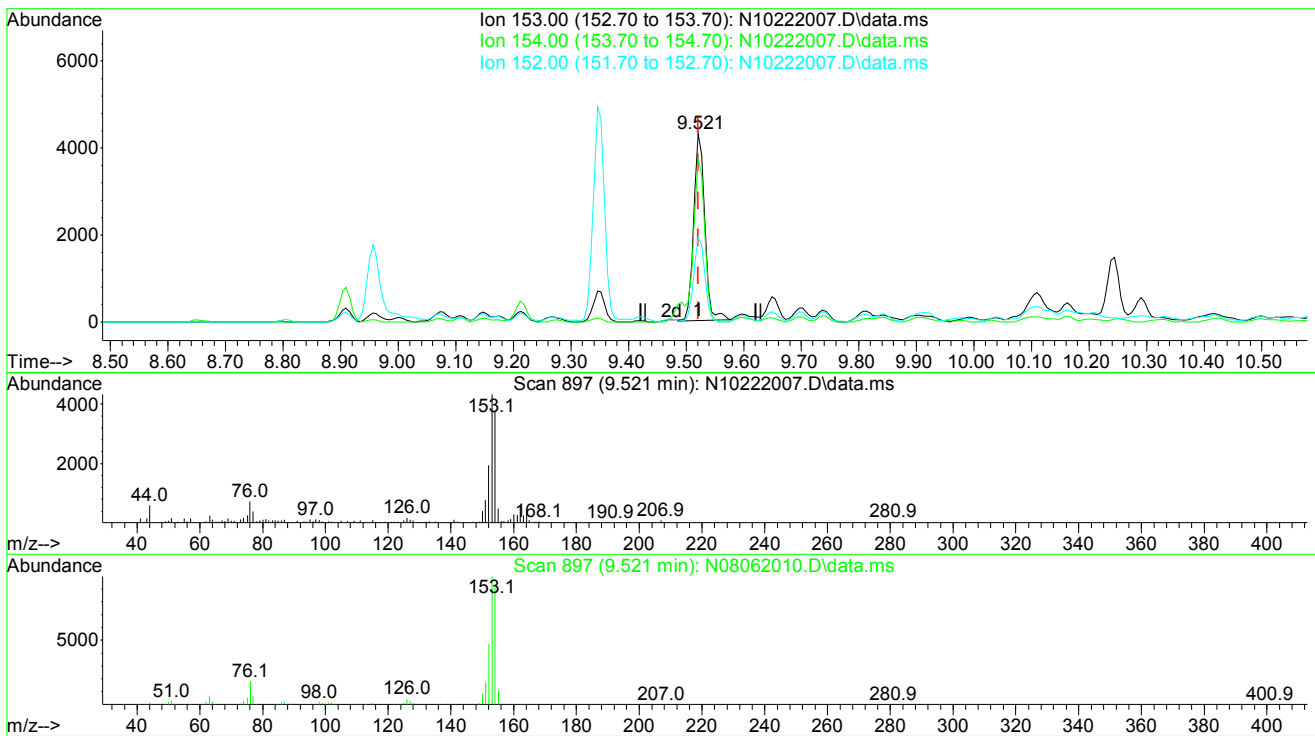
7.761min (+ 0.000) 3.91 ng/ml

response	10732	
Ion	Exp%	Act%
128.00	100.00	100.00
127.00	12.60	13.28
127.00	12.60	13.28
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

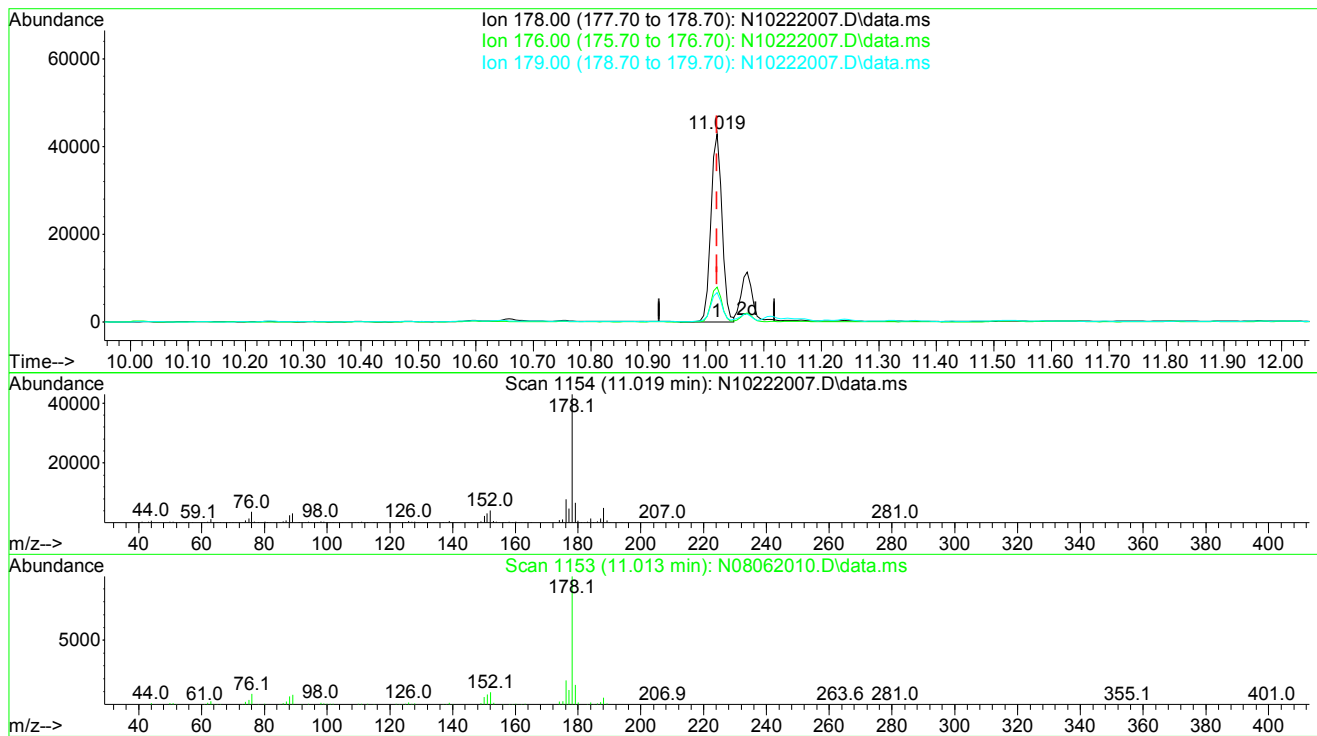
(12) Acenaphthene (T)  
 9.521min (+ 0.000) 2.94 ng/ml  
 response 5744

Ion	Exp%	Act%
153.00	100.00	100.00
154.00	90.70	86.55
152.00	46.80	45.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



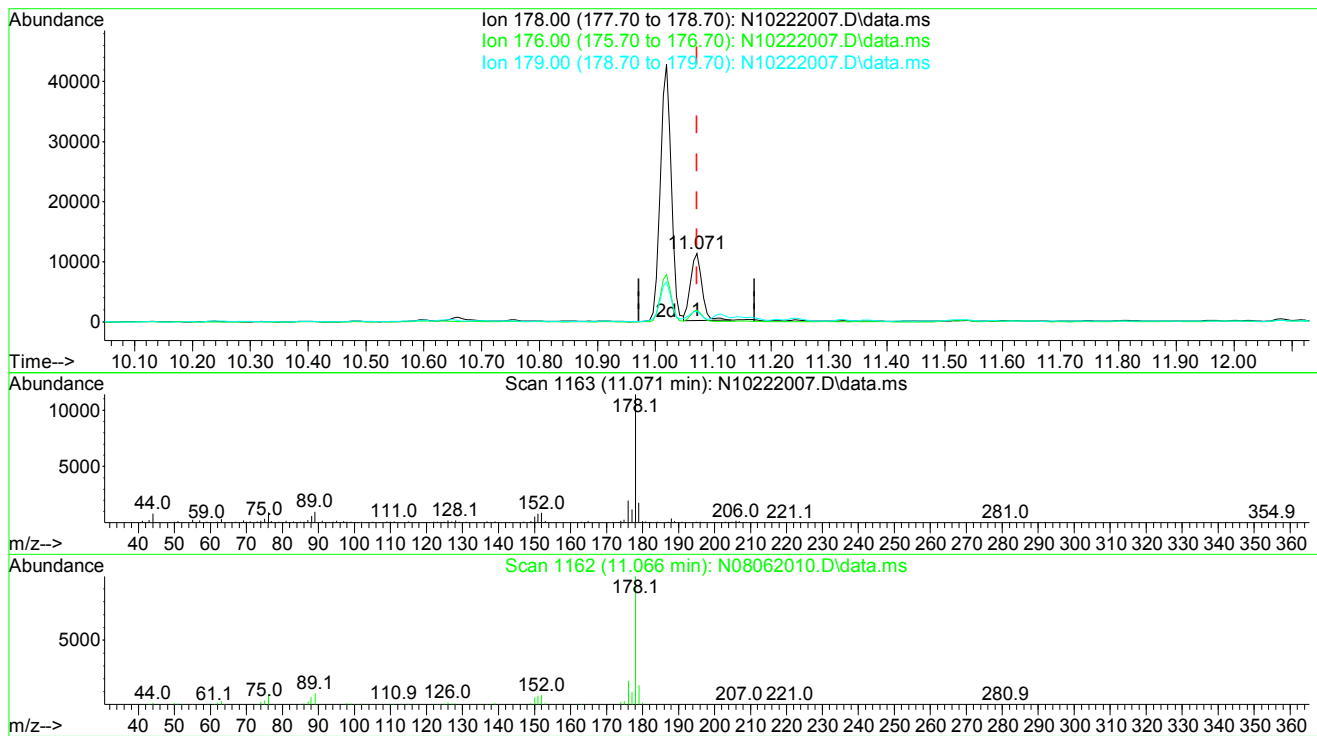
TIC: N10222007.D\data.ms

(20) Phenanthrene (T)		
11.019min (+ 0.000)	17.75 ng/ml	
response	56926	
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	19.00	18.37
179.00	15.10	15.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(21) Anthracene (T)  
 11.071min (+ 0.000) 5.75 ng/ml  
 response 15109

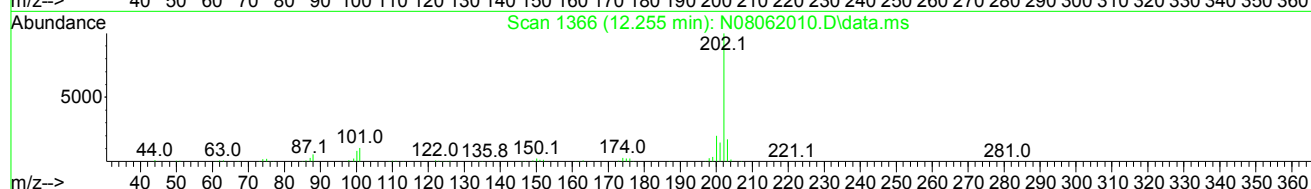
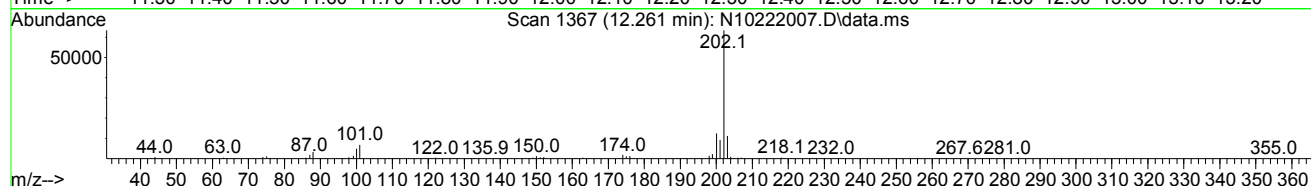
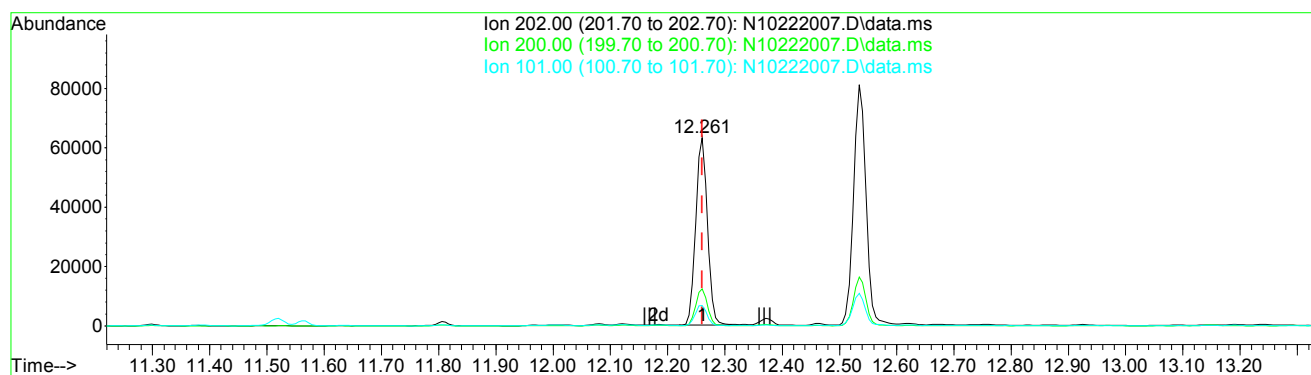
Ion	Exp%	Act%
178.00	100.00	100.00
176.00	18.90	17.45
179.00	15.30	15.55
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



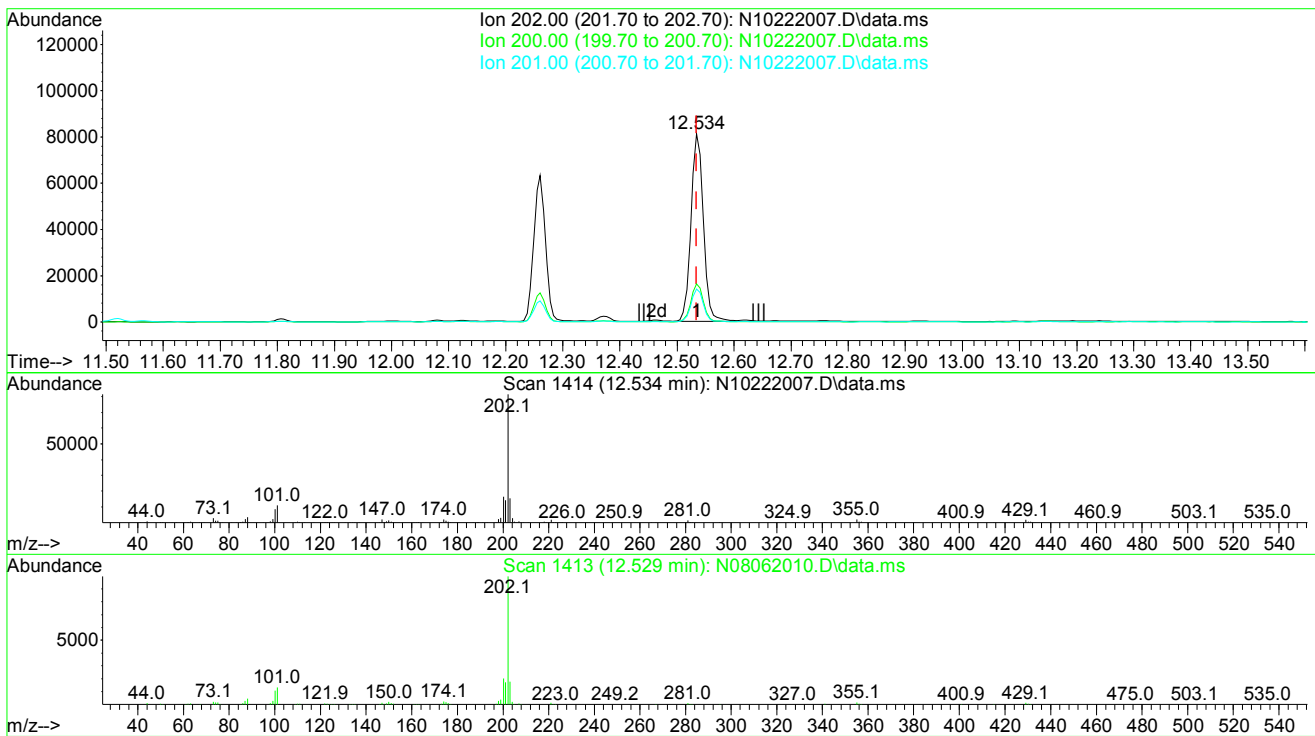
TIC: N10222007.D\data.ms

(24) Fluoranthene (T)		
12.261min (+ 0.000)	27.16 ng/ml	
response	90370	
Ion	Exp%	Act%
202.00	100.00	100.00
200.00	19.70	19.77
101.00	15.30	10.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
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TIC: N10222007.D\data.ms

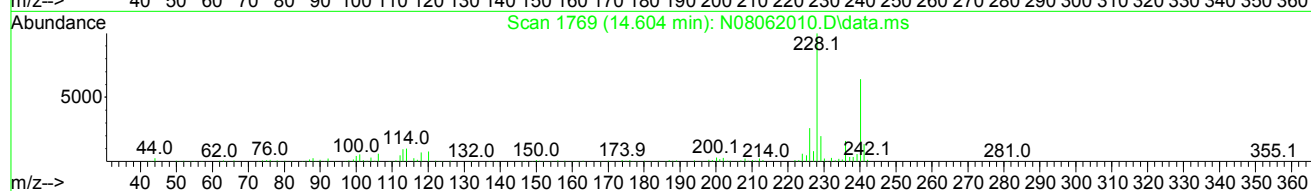
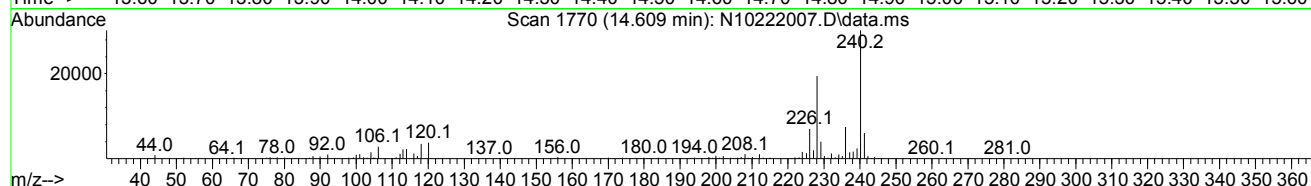
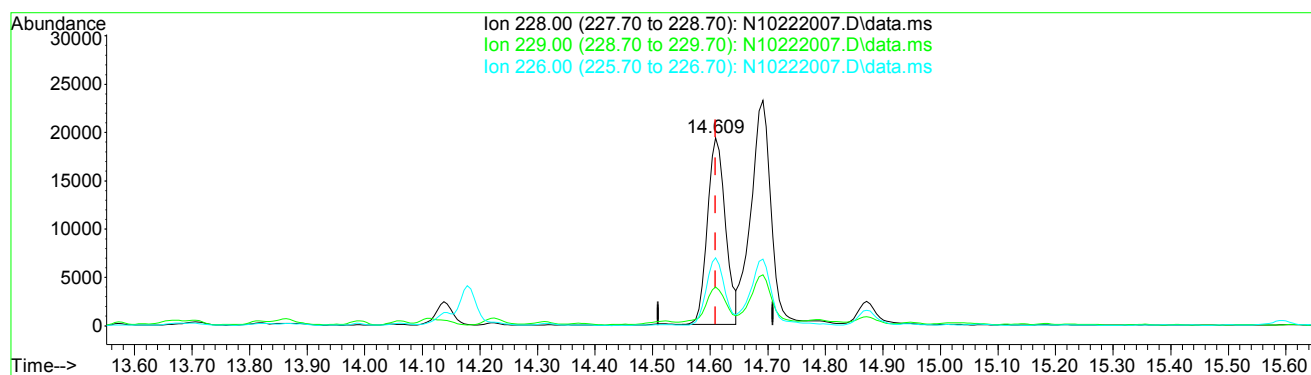
(26) Pyrene (T)  
 12.534min (+ 0.000) 34.34 ng/ml  
 response 122144

Ion	Exp%	Act%
202.00	100.00	100.00
200.00	20.70	20.13
201.00	16.80	17.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(28) Benz(a)anthracene (T)

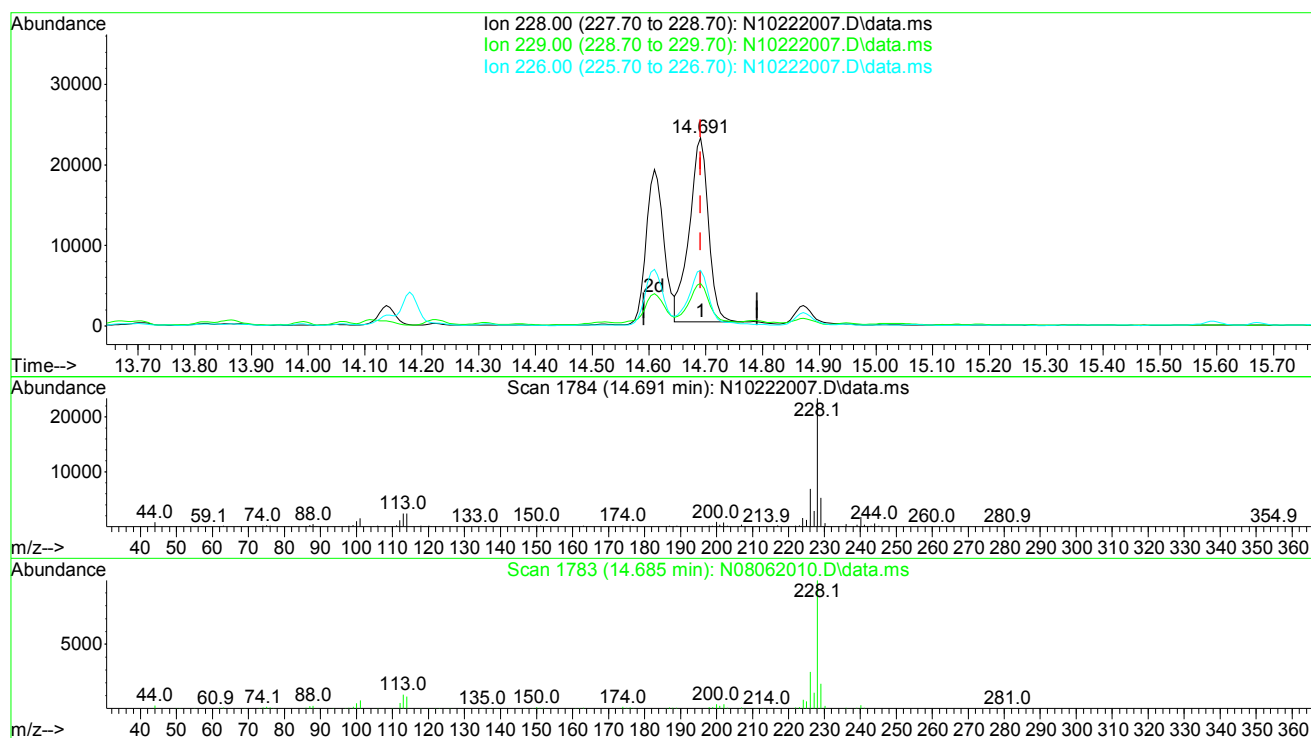
14.609min (+ 0.000) 15.78 ng/ml

response	41911	
Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.40	20.57
226.00	26.20	36.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(29) Chrysene (T)

14.691min (+ 0.000) 19.55 ng/ml

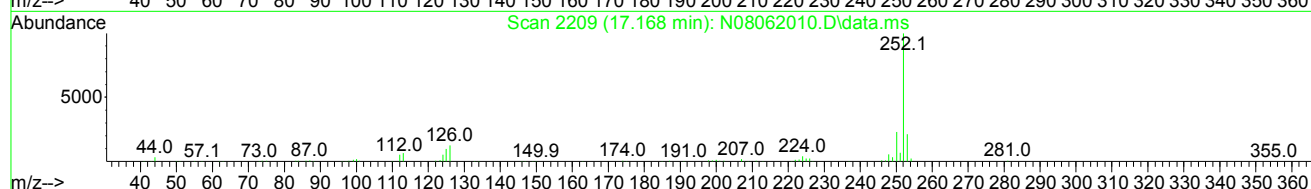
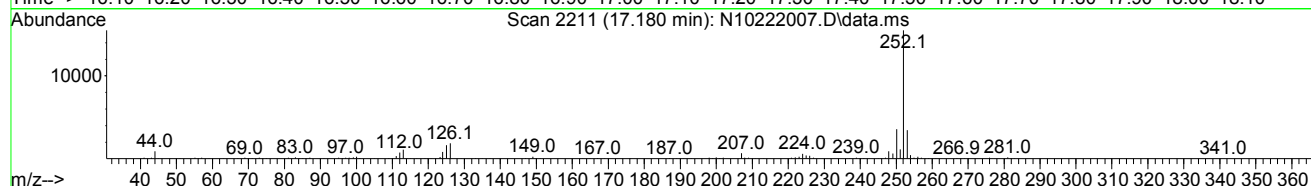
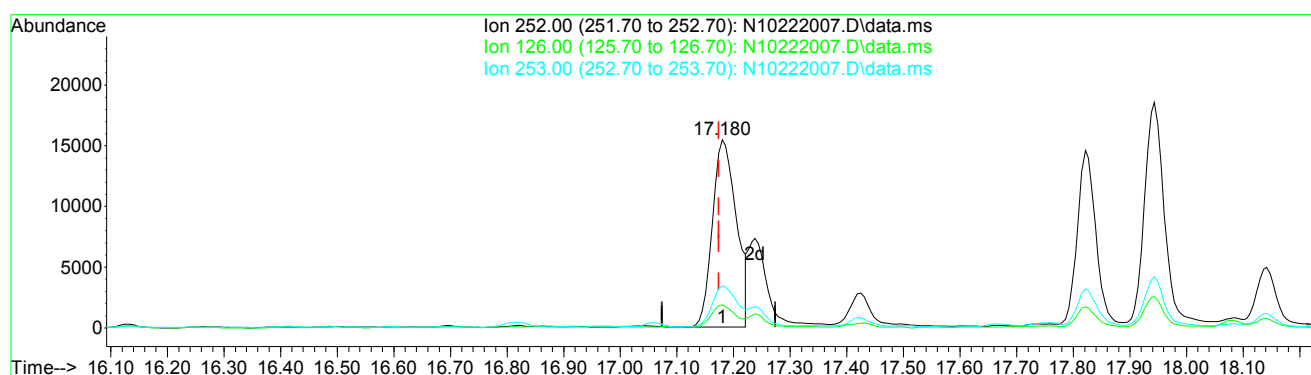
response 53654

Ion	Exp%	Act%
228.00	100.00	100.00
229.00	19.60	22.56
226.00	28.60	29.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



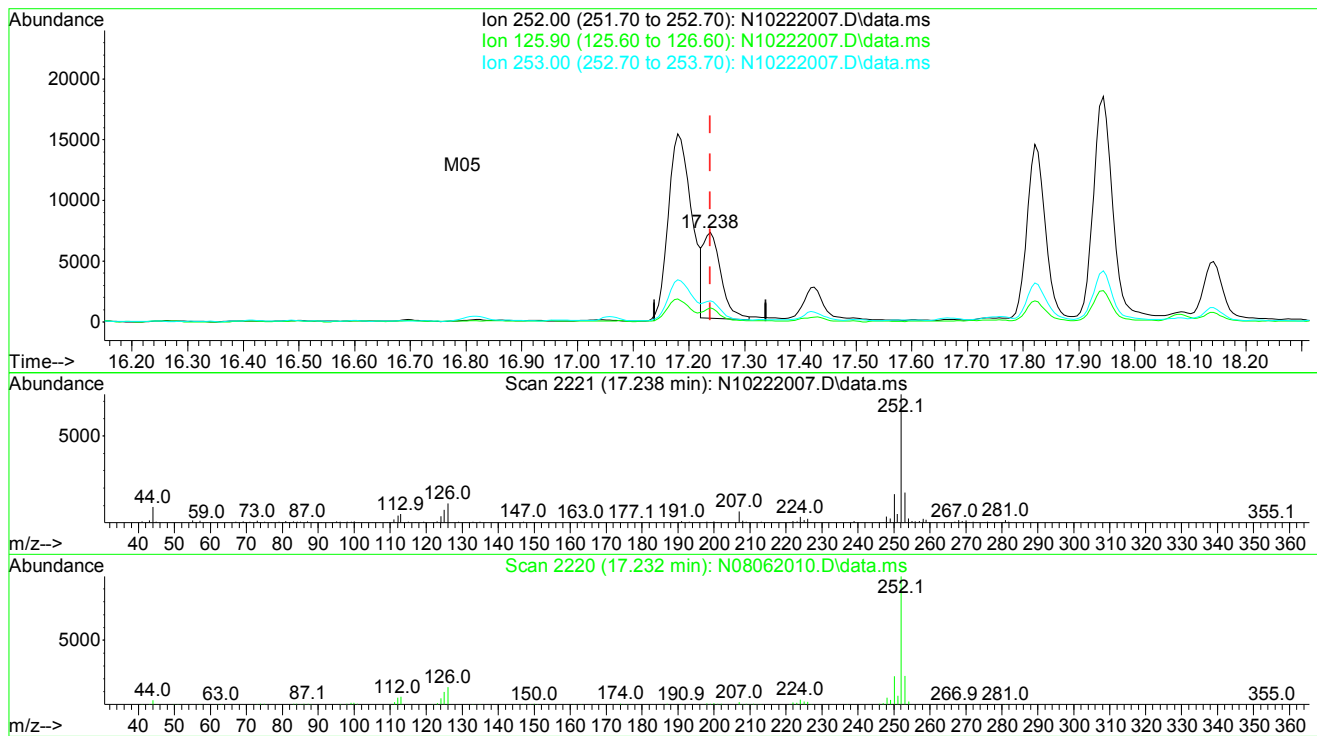
TIC: N10222007.D\data.ms

(31) Benzo(b)fluoranthene (T)		
17.180min (+ 0.006)	17.82 ng/ml	
response	45428	
Ion	Exp%	Act%
252.00	100.00	100.00
126.00	20.00	12.13
253.00	21.10	22.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



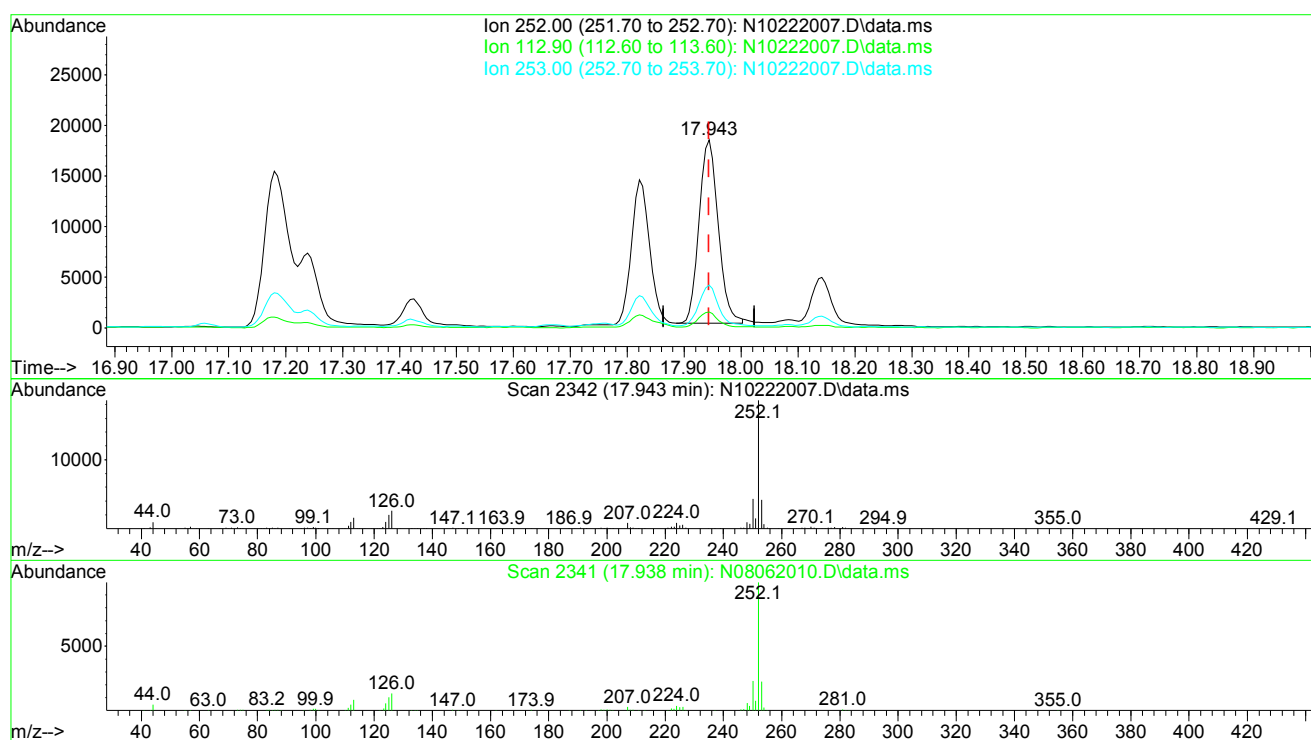
TIC: N10222007.D\data.ms

(32) Benzo(k)fluoranthene (T)			
17.238min (+ 0.000)		6.43 ng/ml m	
response	15452		
Ion	Exp%	Act%	
252.00	100.00	100.00	
125.90	22.10	15.37	
253.00	21.50	23.72	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



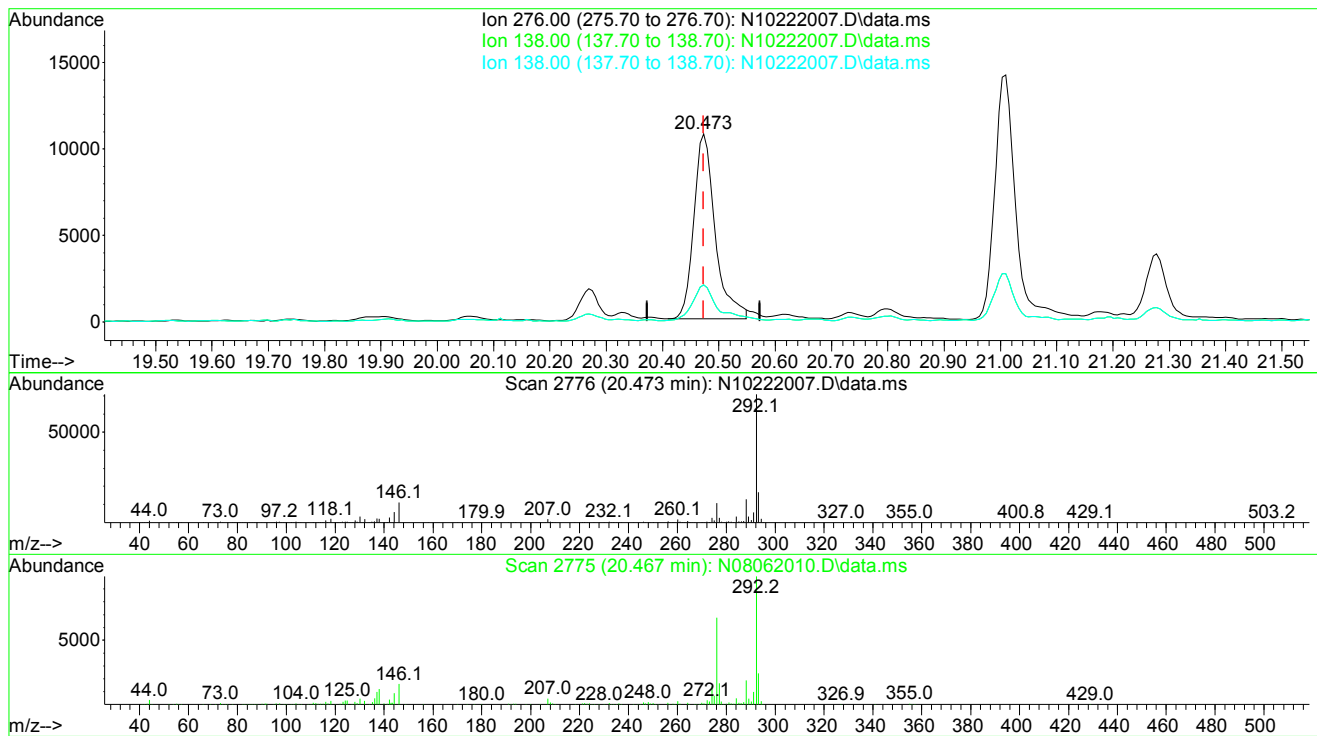
TIC: N10222007.D\data.ms

(35) Benzo(a)pyrene (T)		
17.943min (+ 0.000)	22.98	ng/ml
response	42469	
Ion	Exp%	Act%
252.00	100.00	100.00
112.90	12.70	8.48
253.00	21.90	22.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(38) Indeno(1,2,3-cd)Pyrene (T)  
 20.473min (+ 0.000) 12.60 ng/ml

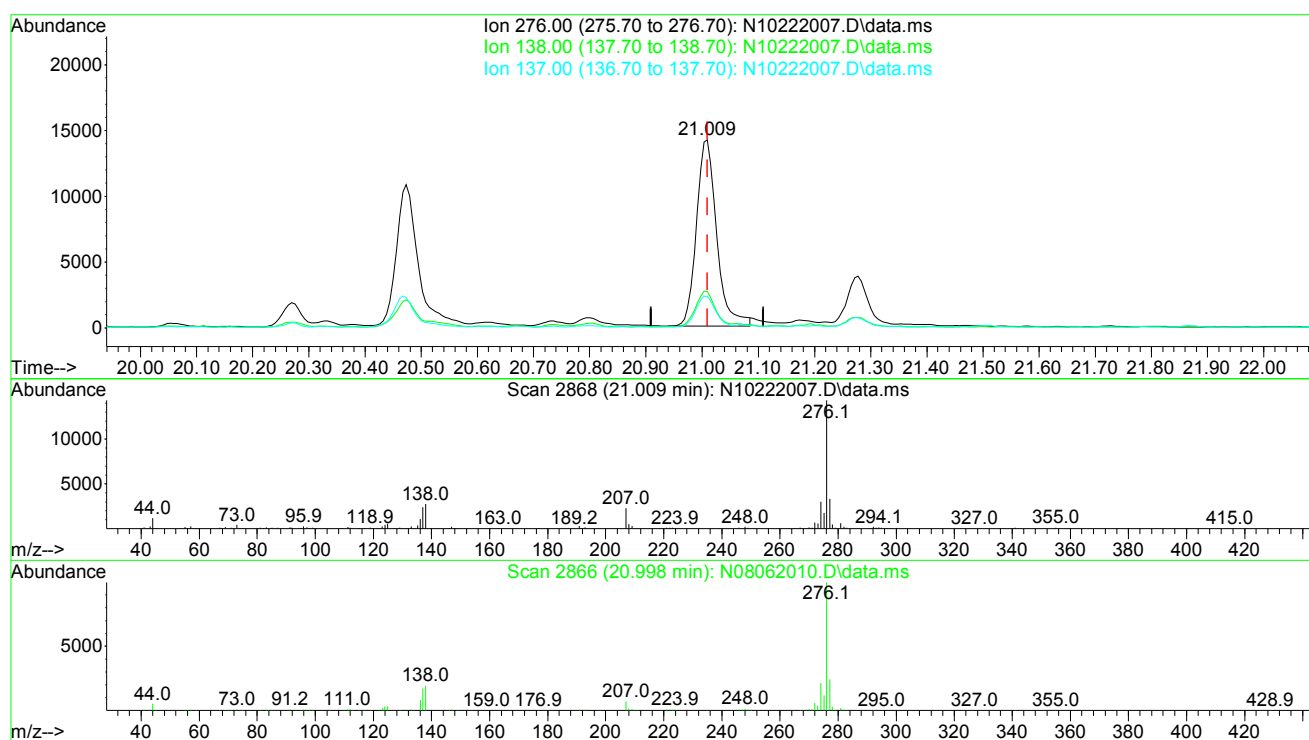
response	28042
Ion	Exp% Act%
276.00	100.00 100.00
138.00	31.60 19.66
138.00	31.60 19.66
0.00	0.00 0.00



### Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:37:47 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(40) Benzo(g,h,i)perylene (T)		
21.009min (+ 0.000)	15.68	ng/ml
response	35467	
Ion	Exp%	Act%
276.00	100.00	100.00
138.00	34.40	19.45
137.00	28.60	16.89
0.00	0.00	0.00

HML 10/23/20

M05

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:44:55 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	255913	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	166139	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	327117	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	315304	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	310832	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	253664	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	265	0.37	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	884	0.37	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.284	330	50	2.04	ng/ml	-0.01
27) Terphenyl-d14 (Surr)	12.727	244	1474	0.49	ng/ml	0.00
Target Compounds						
3) Decalin	7.324	138	135	0.89	ng/ml#	1
4) Naphthalene	7.761	128	19366	7.34	ng/ml	97
5) 2-Methylnaphthalene	8.443	142	6057	3.17	ng/ml	96
6) 1-Methylnaphthalene	8.542	142	2883	1.51	ng/ml	95
7) 1,1'-Biphenyl	8.909	154	1737	0.72	ng/ml	91
8) 2,6-Dimethylnaphthalene	9.072	156	3114	1.75	ng/ml	96
11) Acenaphthylene	9.346	152	8597	3.09	ng/ml	96
12) Acenaphthene	9.521	153	12757	6.27	ng/ml	98
13) Dibenzofuran	9.696	168	2330	0.91	ng/ml	94
14) 1,6,7-Trimethylnaphtha...	9.906	170	1452	0.79	ng/ml	97
15) Fluorene	10.046	166	8623	4.16	ng/ml	96
18) Pentachlorophenol (PCP)	10.821	266	203	10.19	ng/ml	87
19) Dibenzothiopene	10.891	184	10270	3.23	ng/ml	95
20) Phenanthrene	11.019	178	109027	30.80	ng/ml	99
21) Anthracene	11.071	178	29546	10.19	ng/ml	99
22) Carbazole	11.235	167	8859	4.11	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	6846	2.69	ng/ml	96
24) Fluoranthene	12.260	202	196612	53.54	ng/ml	95
26) Pyrene	12.534	202	233802	55.38	ng/ml	99
28) Benz(a)anthracene	14.609	228	89531	28.40	ng/ml	88
29) Chrysene	14.691	228	104917	32.21	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:44:55 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

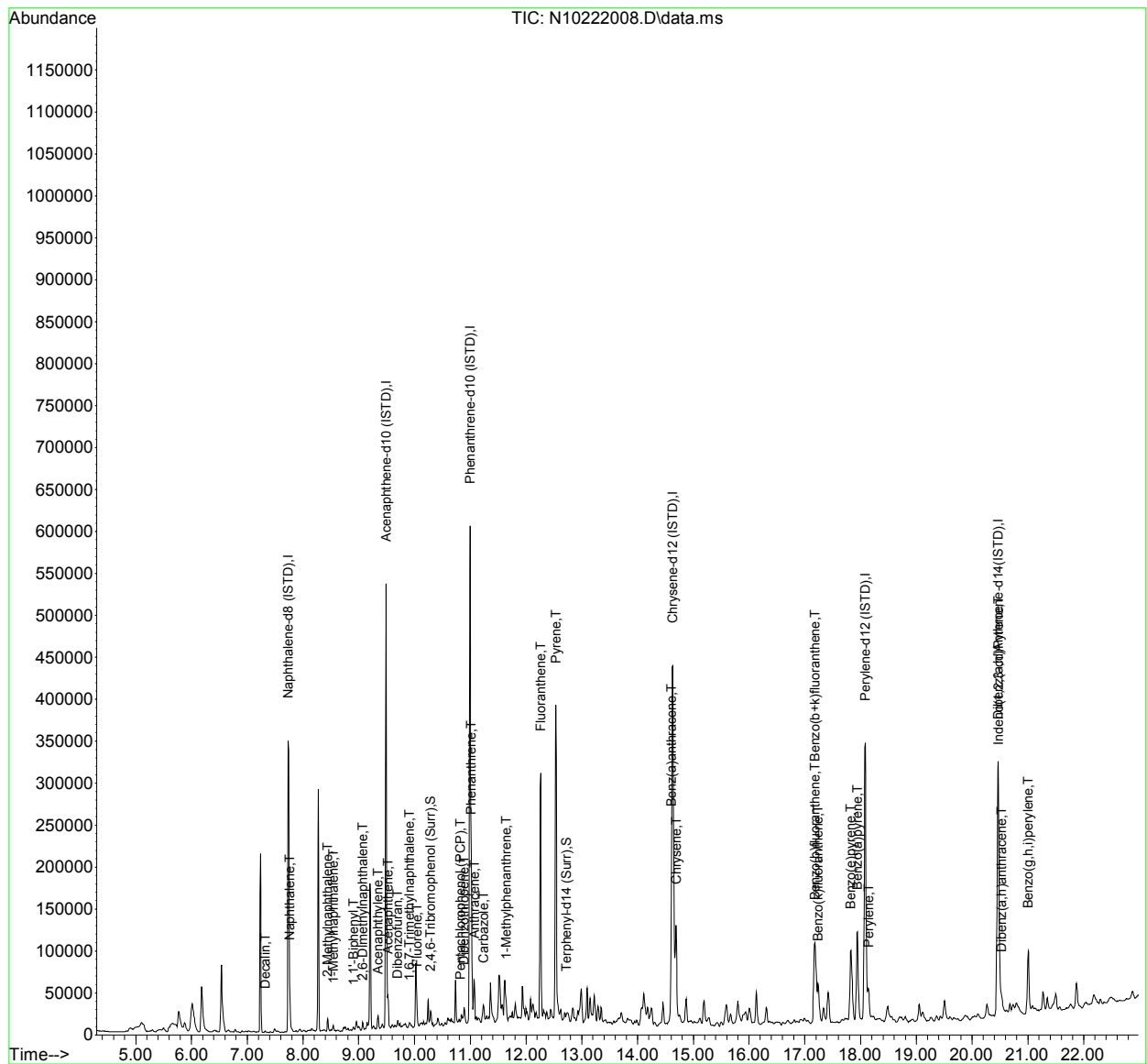
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	118131	37.48	ng/ml	91
32) Benzo(k)fluoranthene	17.238	252	39915m	13.42	ng/ml	
33) Benzo(b+k)fluoranthene	17.180	252	167039	52.08	ng/ml	89
34) Benzo(e)pyrene	17.821	252	69429	22.15	ng/ml	98
35) Benzo(a)pyrene	17.943	252	98111	42.93	ng/ml	96
36) Perylene	18.141	252	30935	9.12	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.473	276	65841	24.12	ng/ml	77
39) Dibenz(a,h)anthracene	20.525	278	9153	3.41	ng/ml	88
40) Benzo(g,h,i)perylene	21.003	276	76990	27.74	ng/ml	77

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:44:55 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:41:58 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.737	136	255913	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	166139	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	327117	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	315304	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	310832	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	253664	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.055	82	265	0.37	ng/ml	0.00
10) 2-Fluorobiphenyl (Surr)	8.804	172	884	0.37	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.284	330	50	2.04	ng/ml	-0.01
27) Terphenyl-d14 (Surr)	12.727	244	1474	0.49	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.324	138	135	0.89	ng/ml#	1
4) Naphthalene	7.761	128	19366	7.34	ng/ml	97
5) 2-Methylnaphthalene	8.443	142	6057	3.17	ng/ml	96
6) 1-Methylnaphthalene	8.542	142	2883	1.51	ng/ml	95
7) 1,1'-Biphenyl	8.909	154	1737	0.72	ng/ml	91
8) 2,6-Dimethylnaphthalene	9.072	156	3114	1.75	ng/ml	96
11) Acenaphthylene	9.346	152	8597	3.09	ng/ml	96
12) Acenaphthene	9.521	153	12757	6.27	ng/ml	98
13) Dibenzofuran	9.696	168	2330	0.91	ng/ml	94
14) 1,6,7-Trimethylnaphtha...	9.906	170	1452	0.79	ng/ml	97
15) Fluorene	10.046	166	8623	4.16	ng/ml	96
18) Pentachlorophenol (PCP)	10.821	266	203	10.19	ng/ml	87
19) Dibenzothiopene	10.891	184	10270	3.23	ng/ml	95
20) Phenanthrene	11.019	178	109027	30.80	ng/ml	99
21) Anthracene	11.071	178	29546	10.19	ng/ml	99
22) Carbazole	11.235	167	8859	4.11	ng/ml	98
23) 1-Methylphenanthrene	11.643	192	6846	2.69	ng/ml	96
24) Fluoranthene	12.260	202	196612	53.54	ng/ml	95
26) Pyrene	12.534	202	233802	55.38	ng/ml	99
28) Benz(a)anthracene	14.609	228	89531	28.40	ng/ml	88
29) Chrysene	14.691	228	104917	32.21	ng/ml	98

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LV114\_BNA\_ACQ.M

Quant Time: Oct 23 11:41:58 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

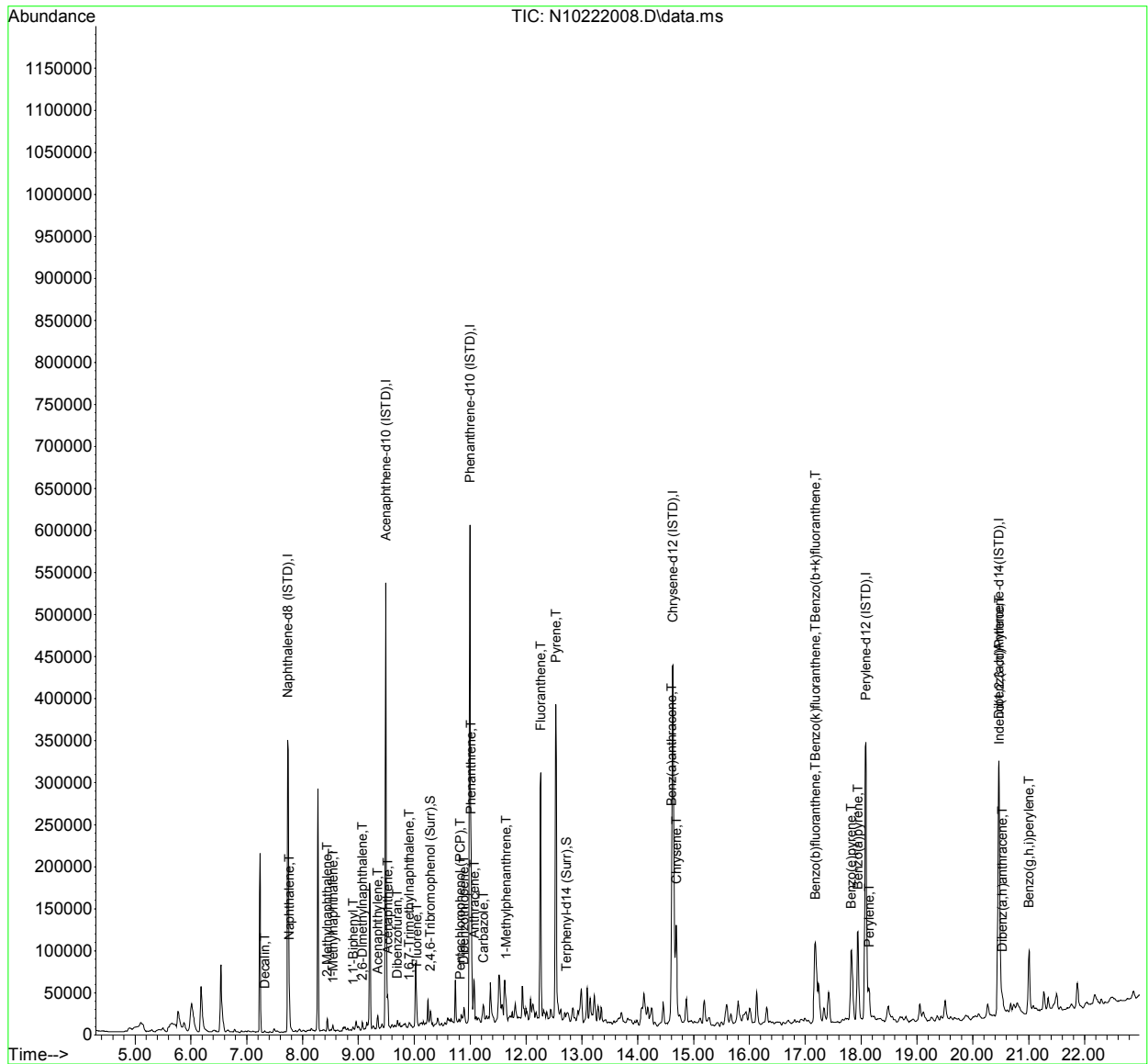
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo(b)fluoranthene	17.180	252	118131	37.48	ng/ml	91
32) Benzo(k)fluoranthene	17.180	252	148759	50.03	ng/ml	89
33) Benzo(b+k)fluoranthene	17.180	252	167039	52.08	ng/ml	89
34) Benzo(e)pyrene	17.821	252	69429	22.15	ng/ml	98
35) Benzo(a)pyrene	17.943	252	98111	42.93	ng/ml	96
36) Perylene	18.141	252	30935	9.12	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.473	276	65841	24.12	ng/ml	77
39) Dibenz(a,h)anthracene	20.525	278	9153	3.41	ng/ml	88
40) Benzo(g,h,i)perylene	21.003	276	76990	27.74	ng/ml	77

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

Quantitation Report (Not Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

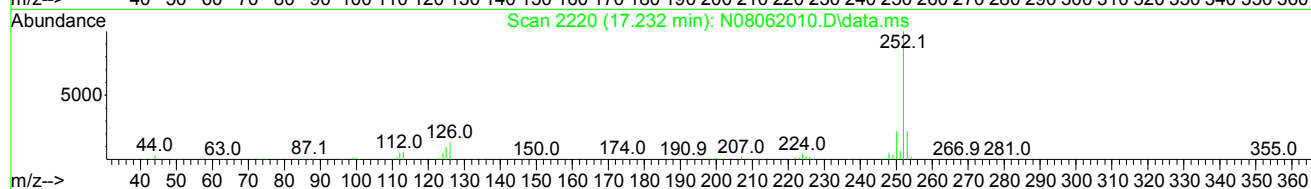
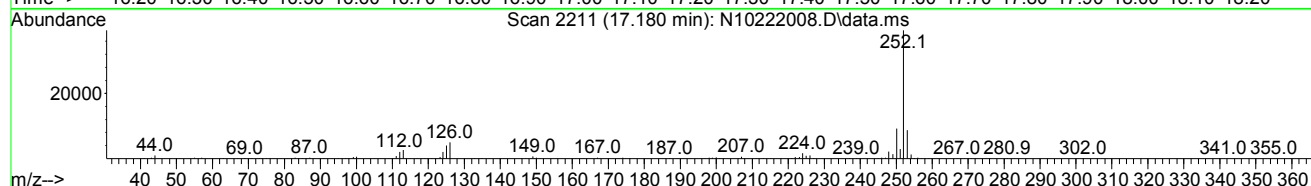
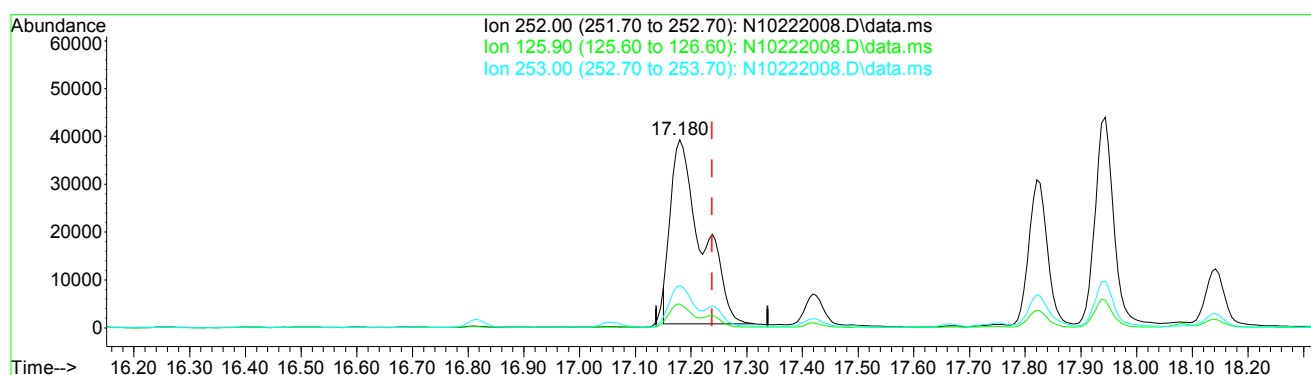
Quant Time: Oct 23 11:41:58 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:41:58 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222008.D\data.ms

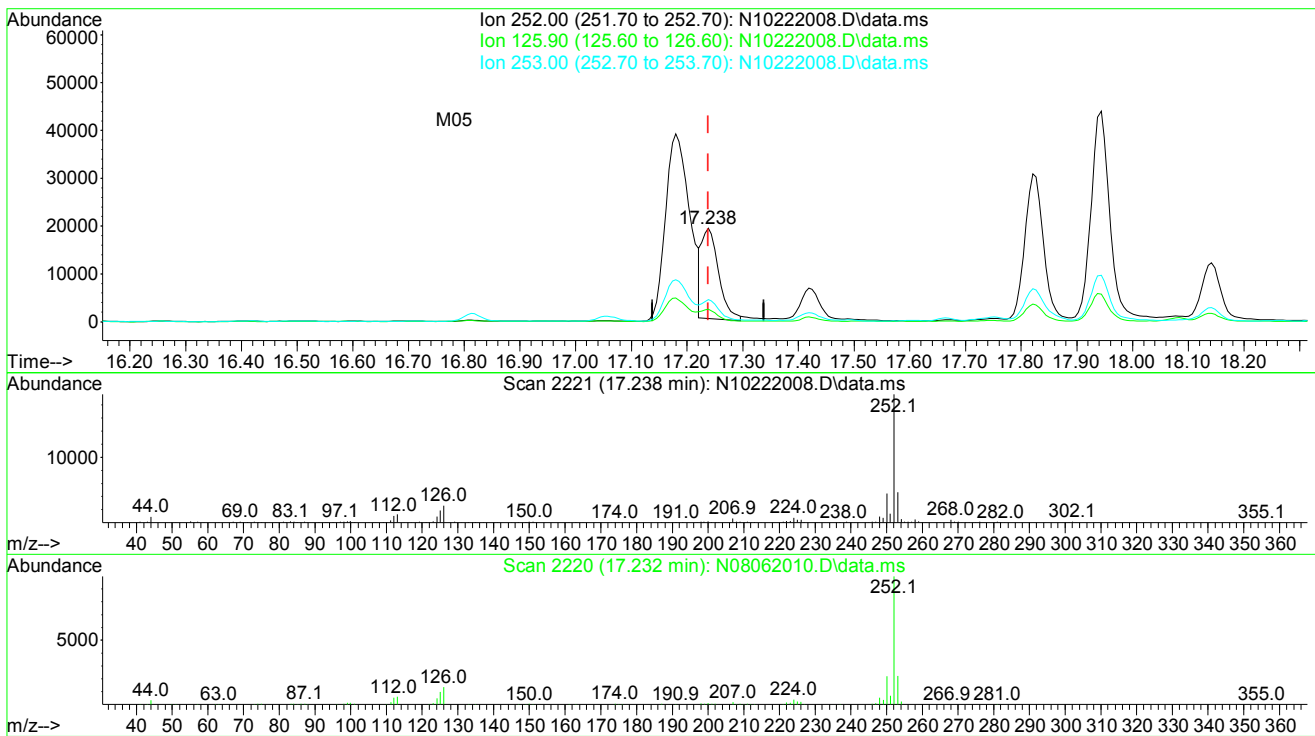
<del>(32) Benzo(k)fluoranthene (T)</del>		
<del>17.180min (-0.058) 50.03 ng/ml</del>		
<del>response</del>	<del>148759</del>	
<del>Ion</del>	<del>Exp%</del>	<del>Act%</del>
<del>252.00</del>	<del>100.00</del>	<del>100.00</del>
<del>125.90</del>	<del>22.10</del>	<del>12.56</del>
<del>253.00</del>	<del>21.50</del>	<del>22.46</del>
<del>0.00</del>	<del>0.00</del>	<del>0.00</del>



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222008.D  
 Acq On : 22 Oct 2020 06:46 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0100764-DUP1@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 7 Sample Multiplier: 1  
 DataAcq Meth:LVI14\_BNA\_ACQ.M

Quant Time: Oct 23 11:41:58 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222008.D\data.ms

(32) Benzo(k)fluoranthene (T)			
17.238min	( 0.000)	13.42 ng/ml	m
response	39915		
Ion	Exp%	Act%	
252.00	100.00	100.00	
125.90	22.10	13.37	
253.00	21.50	23.65	
0.00	0.00	0.00	

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)  
Calibration Data**

Sequence 0H07053 (Cal ID A0H1005) SV-GCMS14



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence:

0H07053

Instrument:

SV-GCMS14

Date:

08/07/20 15:42

Calibration:

A0H1005

---

#	<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	0H07053-TUN1	Soil	QC	QC			A20G263	A20H065
2	0H07053-ICB1	Soil	QC	QC			A20G263	
3	0H07053-CAL1	Soil	QC	QC			A20G263	A20H127
4	0H07053-CAL2	Soil	QC	QC			A20G263	A20H128
5	0H07053-CAL3	Soil	QC	QC			A20G263	A20H129
6	0H07053-CAL4	Soil	QC	QC			A20G263	A20H130
7	0H07053-CAL5	Soil	QC	QC			A20G263	A20H131
8	0H07053-CAL6	Soil	QC	QC			A20G263	A20H132
9	0H07053-CAL7	Soil	QC	QC			A20G263	A20H133
10	0H07053-CAL8	Soil	QC	QC			A20G263	A20H134
11	0H07053-CAL9	Soil	QC	QC			A20G263	A20H135
12	0H07053-CALA	Soil	QC	QC			A20G263	A20H136
13	0H07053-IBL1	Soil	QC	QC			A20G263	
14	0H07053-IBL2	Soil	QC	QC			A20G263	
15	0H07053-ICV1	Soil	QC	QC			A20G263	A20H138
16	0H07053-IBL3	Soil	QC	QC			A20G263	

Data Entered By/Date: JK 8/10/20  
Data Reviewed By/Date: MKZ 8/14/2020

Comments:

Calibration Status Report SV-GCMS14

Method Path : M:\methods\  
 Method File : SV14\_080720.M  
 Title : EPA 8270D: Semivolatile Organics  
 Last Update : Mon Aug 10 09:22:10 2020  
 Response Via : Initial Calibration

*JK 8/10/20*

#	ID	Conc	ISTD Conc	Path\File
1	1.0	1	100	M:\data\2020-08\0H07053\N08072010.D
2	2.0	2	100	M:\data\2020-08\0H07053\N08072011.D
3	5.0	5	100	M:\data\2020-08\0H07053\N08072012.D
4	10.0	10	100	M:\data\2020-08\0H07053\N08072013.D
5	20	20	100	M:\data\2020-08\0H07053\N08072014.D
6	50.0	50	100	M:\data\2020-08\0H07053\N08072015.D
7	100	100	100	M:\data\2020-08\0H07053\N08072016.D
8	200	200	100	M:\data\2020-08\0H07053\N08072017.D
<del>9</del>	<del>400</del>	<del>400</del>	<del>100</del>	<del>M:\data\2020-08\0H06064\N08062013.D</del>
10	600	600	100	M:\data\2020-08\0H07053\N08072019.D

Misinjection. Point not included in calibration.

#	ID	Update Time	Quant Time	Acquisition Time
1	1.0	Aug 10 09:21 2020	Aug 10 09:16 2020	07 Aug 2020 04:50 pm
2	2.0	Aug 10 09:21 2020	Aug 10 09:16 2020	07 Aug 2020 05:23 pm
3	5.0	Aug 10 09:21 2020	Aug 10 09:17 2020	07 Aug 2020 05:56 pm
4	10.0	Aug 10 09:21 2020	Aug 10 09:18 2020	07 Aug 2020 06:29 pm
5	20	Aug 10 09:21 2020	Aug 10 09:18 2020	07 Aug 2020 07:02 pm
6	50.0	Aug 10 09:21 2020	Aug 10 09:18 2020	07 Aug 2020 07:35 pm
7	100	Aug 10 09:22 2020	Aug 10 09:19 2020	07 Aug 2020 08:07 pm
8	200	Aug 10 09:22 2020	Aug 10 09:19 2020	07 Aug 2020 08:40 pm
<del>9</del>	<del>400</del>	<del>Aug 07 10:58 2020</del>	<del>Aug 07 10:55 2020</del>	<del>06 Aug 2020 11:02 pm</del>
10	600	Aug 10 09:22 2020	Aug 10 09:20 2020	07 Aug 2020 09:45 pm

SV14\_080720.M Mon Aug 10 12:58:23 2020

Response Factor Report SV-GCMS14

Method Path : M:\methods\  
 Method File : SV14\_080720.M  
 Title : EPA 8270D: Semivolatile Organics  
 Last Update : Mon Aug 10 09:22:10 2020  
 Response Via : Initial Calibration

*JK 8/10/20*

Calibration Files

1.0 =N08072010.D 2.0 =N08072011.D 5.0 =N08072012.D 10.0=N08072013.D 20 =N08072014.D  
 50.0=N08072015.D 100 =N08072016.D 200 =N08072017.D 400 =N08062013.D 600 =N08072019.D

Compound	1.0	2.0	5.0	10.0	20	50.0	100	200	400	600	Avg	%RSD
1) I Naphthalene-d8 (ISTD) -----ISTD-----												
2) S Nitrobenzene-d...	0.303	0.283	0.263	0.261	0.282	0.282	0.283	0.281		0.284	0.280	4.49
3) T Decalin	<u>0.303</u>	0.056	0.060	0.068	0.055	0.053	0.062	0.058		0.062	0.059	7.97
4) T Naphthalene	1.192	1.066	1.023	1.030	1.028	1.001	1.005	0.983		0.953	1.031	6.62
5) T 2-Methylnaphth...	0.675	0.735	0.736	0.703	0.754	0.780	0.782	0.780		0.767	0.746	5.02
6) T 1-Methylnaphth...	0.709	0.720	0.744	0.743	0.757	0.769	0.769	0.764		0.741	0.746	2.84
7) T 1,1'-Biphenyl	0.984	0.923	0.900	0.837	0.939	0.976	0.993	0.989		0.999	0.949	5.73
8) T 2,6-Dimethylna...	0.671	0.657	0.661	0.621	0.705	0.725	0.741	0.742		0.737	0.695	6.38
9) I Acenaphthene-d10 (... -----ISTD-----												
10) S 2-Fluorobiphen...	1.376	1.393	1.425	1.394	1.460	1.492	1.472	1.467		1.389	1.430	3.04
11) T Acenaphthylene	1.474	1.566	1.592	1.685	1.686	1.757	1.792	1.803		1.731	1.676	6.65
12) T Acenaphthene	1.267	1.260	1.266	1.192	1.236	1.232	1.219	1.210		1.142	1.225	3.29
13) T Dibenzofuran	1.495	1.486	1.488	1.397	1.543	1.599	1.622	1.641		1.588	1.540	5.17
14) T 1,6,7-Trimethy...	1.159	1.063	1.077	1.086	1.124	1.145	1.150	1.130		1.060	1.111	3.52
15) T Fluorene	1.208	1.215	1.185	1.104	1.247	1.302	1.348	1.340		1.272	1.247	6.30
16) I Phenanthrene-d10 (... -----ISTD-----												
17) S 2,4,6-Tribromo...	<u>0.107</u>	<u>0.107</u>	0.107	0.078	0.108	0.120	0.128	0.131		0.142	0.116	18.22
18) T Pentachlorophe...	<u>0.008</u>	<u>0.008</u>	<u>0.008</u>	0.008	0.021	0.042	0.052	0.072		0.103	0.050	68.86
19) T Dibenzothiopene	0.928	1.019	0.990	0.955	0.983	0.980	0.990	0.970		0.926	0.971	3.13
20) T Phenanthrene	1.195	1.148	1.072	1.061	1.081	1.077	1.069	1.050		0.987	1.082	5.45
21) T Anthracene	0.868	0.863	0.833	0.775	0.905	0.939	0.938	0.942		0.916	0.886	6.42
22) T Carbazole	0.595	0.575	0.609	0.502	0.724	0.760	0.715	0.731		0.720	0.659	13.63
23) T 1-Methylphenan...	0.700	0.808	0.764	0.744	0.797	0.817	0.811	0.804		0.758	0.778	5.07

Response Factor Report SV-GCMS14

Method Path : M:\methods\  
 Method File : SV14\_080720.M

Title : EPA 8270D: Semivolatle Organics

24)	T	Fluoranthene	1.056	1.074	1.058	1.022	1.137	1.170	1.203	1.212	1.173	1.123	6.33
25)	I	Chrysene-d12 (ISTD)	-----ISTD-----										
26)	T	Pyrene	1.284	1.285	1.314	1.673	1.366	1.310	1.405	1.278	1.135	1.339	10.88
27)	S	Terphenyl-d14 ...	0.948	0.900	0.965	1.003	1.009	0.983	0.990	0.954	0.903	0.961	4.15
28)	T	Benz(a)anthracene	1.185	1.074	0.961	0.922	0.963	0.964	0.961	0.973	0.995	1.000	8.09
29)	T	Chrysene	1.050	1.051	1.063	1.013	1.046	1.035	1.039	1.017	0.984	1.033	2.37
30)	I	Perylene-d12 (ISTD)	-----ISTD-----										
31)	T	Benzo(b)fluora...	1.008	1.004	0.923	0.982	1.013	1.015	1.048	1.054	1.078	1.014	4.44
32)	T	Benzo(k)fluora...	0.926	0.854	0.918	0.919	0.939	0.984	1.002	1.040	1.026	0.957	6.31
33)	T	Benzo(b+k)fluo...	0.967	0.999	0.982	1.015	1.033	1.051	1.072	1.085	1.083	1.032	4.27
34)	T	Benzo(e)pyrene	0.943	0.938	0.965	1.011	1.001	1.015	1.063	1.079	1.060	1.008	5.17
35)	T	Benzo(a)pyrene	0.754	0.681	0.649	0.662	0.717	0.756	0.778	0.805	0.813	0.735	8.29
36)	T	Perylene	1.114	1.064	1.042	1.096	1.134	1.112	1.101	1.105	1.056	1.092	2.81
37)	I	Dibenz(a,h)Anthrce...	-----ISTD-----										
38)	T	Indeno(1,2,3-c...	1.057	1.050	1.042	1.057	1.057	1.051	1.096	1.128	1.148	1.076	3.58
39)	T	Dibenz(a,h)ant...	1.062	1.058	1.013	1.009	1.045	1.024	1.110	1.123	1.080	1.058	3.83
40)	T	Benzo(g,h,i)pe...	1.003	1.025	1.003	1.045	1.075	1.106	1.172	1.213	1.206	1.094	7.73

-----  
 (#) = Out of Range

## Compound List Report SV-GCMS14

Method Path : M:\methods\  
 Method File : SV14\_080720.M  
 Title : EPA 8270D: Semivolatile Organics  
 Last Update : Mon Aug 10 09:22:10 2020  
 Response Via : Initial Calibration

JK 8/10/20

All quadratic curve fits weighted 1/(a^2)

Total Cpnds : 40

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I Naphthalene-d8 (ISTD)	136	7.737	1.000	A	2	A	B
2	S Nitrobenzene-d5 (Surr)	82	7.050	0.911	A	1	A	R
3	T Decalin	138	7.212	0.932	A	2	A	B
4	T Naphthalene	128	7.761	1.003	A	2	A	R
5	T 2-Methylnaphthalene	142	8.443	1.091	A	2	A	R
6	T 1-Methylnaphthalene	142	8.542	1.104	A	2	A	R
7	T 1,1'-Biphenyl	154	8.909	1.151	A	2	A	B
8	T 2,6-Dimethylnaphthalene	156	9.066	1.172	A	2	A	R
9	I Acenaphthene-d10 (ISTD)	162	9.492	1.000	A	2	A	R
10	S 2-Fluorobiphenyl (Surr)	172	8.804	0.928	A	2	A	R
11	T Acenaphthylene	152	9.346	0.985	A	2	A	R
12	T Acenaphthene	153	9.521	1.003	A	2	A	R
13	T Dibenzofuran	168	9.696	1.021	A	2	A	R
14	T 1,6,7-Trimethylnaphthalene	170	9.906	1.044	A	2	A	R
15	T Fluorene	166	10.046	1.058	A	2	A	R
16	I Phenanthrene-d10 (ISTD)	188	10.996	1.000	A	2	A	R
17	S 2,4,6-Tribromophenol (Surr)	330	10.296	0.936	Q	2	A	R
18	T Pentachlorophenol (PCP)	266	10.814	0.983	Q	2	A	R
19	T Dibenzothiopene	184	10.891	0.990	A	3	A	R
20	T Phenanthrene	178	11.019	1.002	A	2	A	R
21	T Anthracene	178	11.071	1.007	A	2	A	R
22	T Carbazole	167	11.235	1.022	A	2	A	R
23	T 1-Methylphenanthrene	192	11.643	1.059	A	2	A	R
24	T Fluoranthene	202	12.260	1.115	A	2	A	R
25	I Chrysene-d12 (ISTD)	240	14.633	1.000	A	2	A	R
26	T Pyrene	202	12.534	0.857	A	2	A	R
27	S Terphenyl-d14 (Surr)	244	12.733	0.870	A	2	A	R
28	T Benz(a)anthracene	228	14.609	0.998	A	2	A	R
29	T Chrysene	228	14.691	1.004	A	2	A	R
30	I Perylene-d12 (ISTD)	264	18.083	1.000	A	2	A	R
31	T Benzo(b)fluoranthene	252	17.174	0.950	A	2	A	R
32	T Benzo(k)fluoranthene	252	17.238	0.953	A	2	A	R
33	T Benzo(b+k)fluoranthene	252	17.238	0.953	A	2	A	R
34	T Benzo(e)pyrene	252	17.821	0.985	A	2	A	R
35	T Benzo(a)pyrene	252	17.943	0.992	A	2	A	R
36	T Perylene	252	18.141	1.003	A	2	A	R
37	I Dibenz(a,h)Anthracene-d14(ISTD)	292	20.467	1.000	A	2	A	R
38	T Indeno(1,2,3-cd)Pyrene	276	20.473	1.000	A	2	A	R
39	T Dibenz(a,h)anthracene	278	20.531	1.003	A	2	A	R
40	T Benzo(g,h,i)perylene	276	21.009	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. &amp; Q Q = Qvalue L = Largest A = All

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

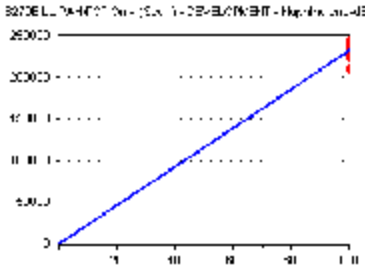
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Naphthalene-d8 (ISTD)

Curve Fit: **AVERAGE RF**

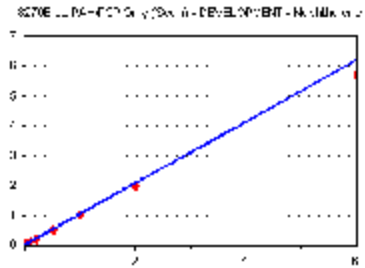


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	209647	2096.470	7.74
0H07053-CAL2	100	224491	2244.910	7.74
0H07053-CAL3	100	226097	2260.970	7.74
0H07053-CAL4	100	228032	2280.320	7.74
0H07053-CAL5	100	239716	2397.160	7.74
0H07053-CAL6	100	236348	2363.480	7.74
0H07053-CAL7	100	239628	2396.280	7.74
0H07053-CAL8	100	243956	2439.560	7.74
0H07053-CAL9	100	171104	1711.040	7.74
0H07053-CALA	100	238642	2386.420	7.74

**AVE RF 2318.397      RF RSD 4.65      AVE RT 7.74**

### Naphthalene

Curve Fit: **AVERAGE RF**

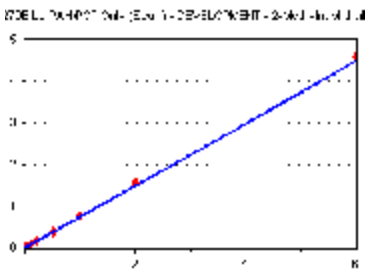


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2500	1.192	7.76
0H07053-CAL2	2	4784	1.066	7.76
0H07053-CAL3	5	11565	1.023	7.76
0H07053-CAL4	10	23497	1.030	7.76
0H07053-CAL5	20	49268	1.028	7.76
0H07053-CAL6	50	118307	1.001	7.76
0H07053-CAL7	100	240756	1.005	7.76
0H07053-CAL8	200	479537	0.983	7.76
0H07053-CAL9	400	70590	4.032	7.76
0H07053-CALA	600	1364884	0.953	7.76

**AVE RF 1.031      RF RSD 6.62      AVE RT 7.76**

### 2-Methylnaphthalene

Curve Fit: **AVERAGE RF**

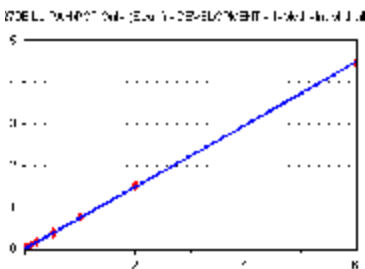


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1415	0.675	8.44
0H07053-CAL2	2	3298	0.735	8.44
0H07053-CAL3	5	8315	0.736	8.44
0H07053-CAL4	10	16041	0.703	8.44
0H07053-CAL5	20	36143	0.754	8.44
0H07053-CAL6	50	92164	0.780	8.44
0H07053-CAL7	100	187483	0.782	8.44
0H07053-CAL8	200	380463	0.780	8.44
0H07053-CAL9	400	37012	0.544	8.44
0H07053-CALA	600	1097533	0.767	8.44

**AVE RF 0.746      RF RSD 5.02      AVE RT 8.44**

### 1-Methylnaphthalene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1486	0.709	8.54
0H07053-CAL2	2	3232	0.720	8.54
0H07053-CAL3	5	8413	0.744	8.54
0H07053-CAL4	10	16943	0.743	8.54
0H07053-CAL5	20	36280	0.757	8.54
0H07053-CAL6	50	90899	0.769	8.54
0H07053-CAL7	100	184281	0.769	8.54
0H07053-CAL8	200	372527	0.764	8.54
0H07053-CAL9	400	38595	0.564	8.54
0H07053-CALA	600	1061181	0.741	8.54

**AVE RF 0.746      RF RSD 2.84      AVE RT 8.54**



## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

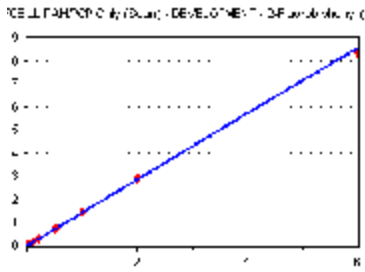
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### 2-Fluorobiphenyl (Surr)

Curve Fit: **AVERAGE RF**

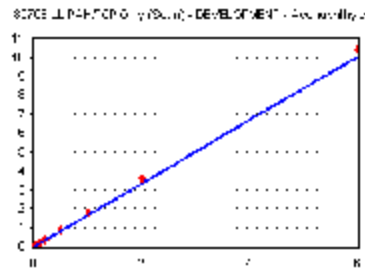


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1868	1.376	8.80
0H07053-CAL2	2	3920	1.393	8.80
0H07053-CAL3	5	10278	1.425	8.80
0H07053-CAL4	10	19786	1.394	8.80
0H07053-CAL5	20	45285	1.460	8.80
0H07053-CAL6	50	117511	1.492	8.80
0H07053-CAL7	100	236184	1.472	8.80
0H07053-CAL8	200	477028	1.467	8.80
0H07053-CAL9	400	33043	<del>1.885</del>	<del>8.80</del>
0H07053-CALA	600	1394405	1.389	8.81

**AVE RF 1.430      RF RSD 3.04      AVE RT 8.80**

### Acenaphthylene

Curve Fit: **AVERAGE RF**

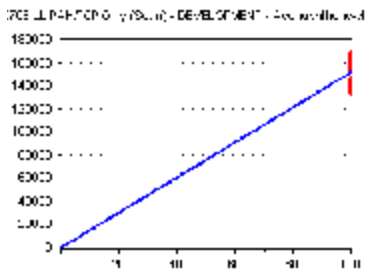


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2000	1.474	9.35
0H07053-CAL2	2	4408	1.566	9.35
0H07053-CAL3	5	11485	1.592	9.35
0H07053-CAL4	10	23907	1.685	9.35
0H07053-CAL5	20	52295	1.686	9.35
0H07053-CAL6	50	138328	1.757	9.35
0H07053-CAL7	100	287639	1.792	9.35
0H07053-CAL8	200	586170	1.803	9.35
0H07053-CAL9	400	32894	<del>1.876</del>	<del>9.35</del>
0H07053-CALA	600	1737176	1.731	9.35

**AVE RF 1.676      RF RSD 6.65      AVE RT 9.35**

### Acenaphthene-d10 (ISTD)

Curve Fit: **AVERAGE RF**

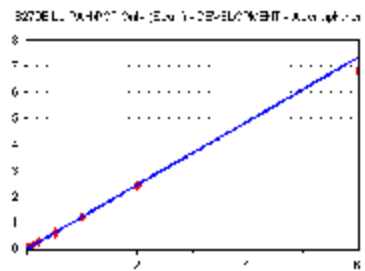


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	135719	1357.190	9.49
0H07053-CAL2	100	140735	1407.350	9.49
0H07053-CAL3	100	144275	1442.750	9.49
0H07053-CAL4	100	141904	1419.040	9.49
0H07053-CAL5	100	155110	1551.100	9.49
0H07053-CAL6	100	157474	1574.740	9.49
0H07053-CAL7	100	160491	1604.910	9.49
0H07053-CAL8	100	162564	1625.640	9.49
0H07053-CAL9	400	4382	<del>43.820</del>	<del>9.49</del>
0H07053-CALA	100	167307	1673.070	9.49

**AVE RF 1517.310      RF RSD 7.41      AVE RT 9.49**

### Acenaphthene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1719	1.267	9.52
0H07053-CAL2	2	3546	1.260	9.52
0H07053-CAL3	5	9131	1.266	9.52
0H07053-CAL4	10	16916	1.192	9.52
0H07053-CAL5	20	38339	1.236	9.52
0H07053-CAL6	50	96981	1.232	9.52
0H07053-CAL7	100	195700	1.219	9.52
0H07053-CAL8	200	393259	1.210	9.52
0H07053-CAL9	400	24612	<del>1.233</del>	<del>9.52</del>
0H07053-CALA	600	1146621	1.142	9.53

**AVE RF 1.225      RF RSD 3.29      AVE RT 9.52**

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

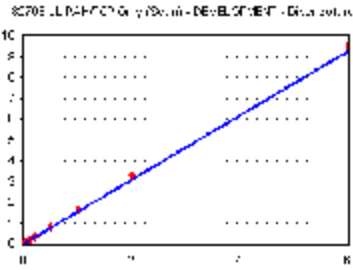
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Dibenzofuran

Curve Fit: **AVERAGE RF**

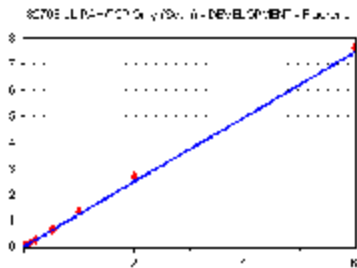


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2029	1.495	9.70
0H07053-CAL2	2	4184	1.486	9.70
0H07053-CAL3	5	10731	1.488	9.70
0H07053-CAL4	10	19825	1.397	9.70
0H07053-CAL5	20	47868	1.543	9.70
0H07053-CAL6	50	125884	1.599	9.70
0H07053-CAL7	100	260342	1.622	9.70
0H07053-CAL8	200	533541	1.641	9.70
0H07053-CAL9	400	20091	1.146	9.70
0H07053-CALA	600	1593927	1.588	9.70

**AVE RF 1.540      RF RSD 5.17      AVE RT 9.70**

### Fluorene

Curve Fit: **AVERAGE RF**

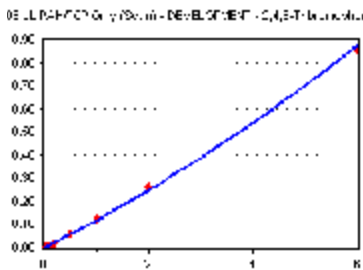


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1639	1.208	10.05
0H07053-CAL2	2	3421	1.215	10.05
0H07053-CAL3	5	8551	1.185	10.05
0H07053-CAL4	10	15667	1.104	10.05
0H07053-CAL5	20	38684	1.247	10.05
0H07053-CAL6	50	102499	1.302	10.05
0H07053-CAL7	100	216422	1.348	10.05
0H07053-CAL8	200	435598	1.340	10.05
0H07053-CAL9	400	44678	0.666	10.05
0H07053-CALA	600	1277182	1.272	10.05

**AVE RF 1.247      RF RSD 6.30      AVE RT 10.05**

### 2,4,6-Tribromophenol (Surr)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**

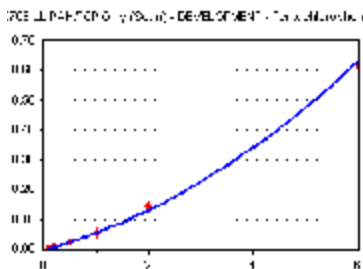


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	4	0	0.000	0.00
0H07053-CAL2	2	534	0.109	10.30
0H07053-CAL3	5	1324	0.107	10.30
0H07053-CAL4	10	1728	7.766	10.30
0H07053-CAL5	20	6085	0.108	10.30
0H07053-CAL6	50	17962	0.120	10.30
0H07053-CAL7	100	39630	0.128	10.29
0H07053-CAL8	200	84601	0.131	10.29
0H07053-CAL9	400	704	7.560	10.29
0H07053-CALA	600	289654	0.142	10.30

**AVE RF 0.116      RF RSD 18.22      AVE RT 10.29**

### Pentachlorophenol (PCP)

Curve Fit: **QUADRATIC: Weighting: (1/a^2), Origin: Ignore**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	4	350	0.150	10.82
0H07053-CAL2	2	248	5.079	10.82
0H07053-CAL3	5	227	4.832	10.82
0H07053-CAL4	10	188	8.449	10.82
0H07053-CAL5	20	1210	2.147	10.82
0H07053-CAL6	50	6271	4.207	10.82
0H07053-CAL7	100	16208	5.226	10.82
0H07053-CAL8	200	46324	7.185	10.82
0H07053-CAL9	400	0	0.000	0.00
0H07053-CALA	600	209662	0.103	10.82

**AVE RF 4.984      RF RSD 68.86      AVE RT 10.82**

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

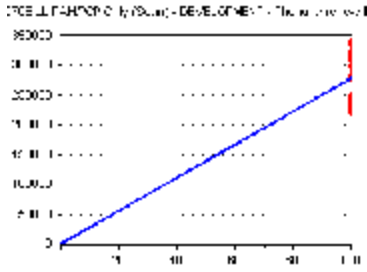
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Phenanthrene-d10 (ISTD)

Curve Fit: **AVERAGE RF**

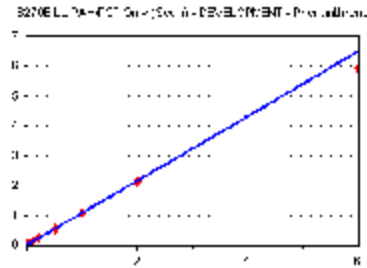


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	232658	2326.580	11.00
0H07053-CAL2	100	244122	2441.220	11.00
0H07053-CAL3	100	247788	2477.880	11.00
0H07053-CAL4	100	222500	2225.000	11.00
0H07053-CAL5	100	281843	2818.430	11.00
0H07053-CAL6	100	298143	2981.430	11.00
0H07053-CAL7	100	310167	3101.670	11.00
0H07053-CAL8	100	322378	3223.780	11.00
0H07053-CAL9	400	2348	23.480	11.00
0H07053-CALA	100	339435	3394.350	11.00

**AVE RF 2776.704      RF RSD 15.28      AVE RT 11.00**

### Phenanthrene

Curve Fit: **AVERAGE RF**

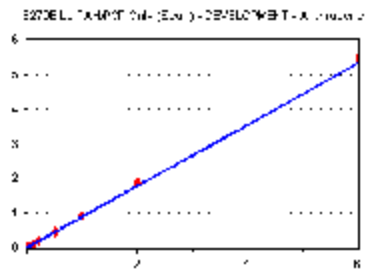


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2780	1.195	11.02
0H07053-CAL2	2	5605	1.148	11.02
0H07053-CAL3	5	13283	1.072	11.02
0H07053-CAL4	10	23609	1.061	11.02
0H07053-CAL5	20	60927	1.081	11.02
0H07053-CAL6	50	160556	1.077	11.02
0H07053-CAL7	100	331692	1.069	11.02
0H07053-CAL8	200	677193	1.050	11.02
0H07053-CAL9	400	9850	4.062	11.02
0H07053-CALA	600	2010051	0.987	11.03

**AVE RF 1.082      RF RSD 5.45      AVE RT 11.02**

### Anthracene

Curve Fit: **AVERAGE RF**

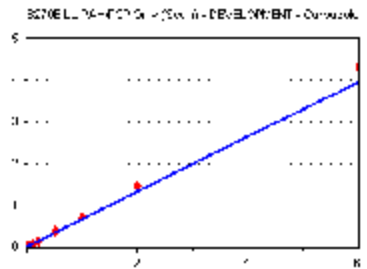


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2020	0.868	11.07
0H07053-CAL2	2	4212	0.863	11.07
0H07053-CAL3	5	10318	0.833	11.07
0H07053-CAL4	10	17244	0.775	11.07
0H07053-CAL5	20	50995	0.905	11.07
0H07053-CAL6	50	139978	0.939	11.07
0H07053-CAL7	100	291014	0.938	11.07
0H07053-CAL8	200	607405	0.942	11.07
0H07053-CAL9	400	7326	0.790	11.07
0H07053-CALA	600	1864915	0.916	11.08

**AVE RF 0.886      RF RSD 6.42      AVE RT 11.07**

### Carbazole

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1385	0.595	11.24
0H07053-CAL2	2	2808	0.575	11.24
0H07053-CAL3	5	7544	0.609	11.24
0H07053-CAL4	10	11174	0.502	11.24
0H07053-CAL5	20	40816	0.724	11.24
0H07053-CAL6	50	113238	0.760	11.24
0H07053-CAL7	100	221628	0.715	11.24
0H07053-CAL8	200	471116	0.731	11.24
0H07053-CAL9	400	4563	0.492	11.24
0H07053-CALA	600	1466993	0.720	11.24

**AVE RF 0.659      RF RSD 13.63      AVE RT 11.24**

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

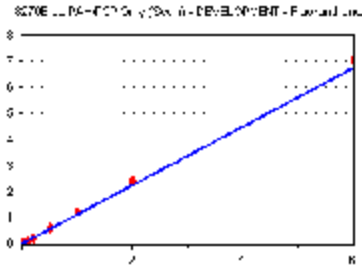
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Fluoranthene

Curve Fit: **AVERAGE RF**

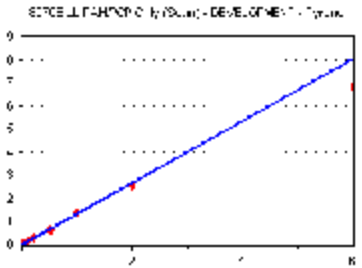


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2457	1.056	12.26
0H07053-CAL2	2	5246	1.074	12.26
0H07053-CAL3	5	13102	1.058	12.26
0H07053-CAL4	10	22749	1.022	12.26
0H07053-CAL5	20	64074	1.137	12.26
0H07053-CAL6	50	174353	1.170	12.26
0H07053-CAL7	100	373192	1.203	12.26
0H07053-CAL8	200	781297	1.212	12.26
0H07053-CAL9	400	7042	0.756	12.26
0H07053-CALA	600	2388152	1.173	12.27

**AVE RF 1.123      RF RSD 6.33      AVE RT 12.26**

### Pyrene

Curve Fit: **AVERAGE RF**

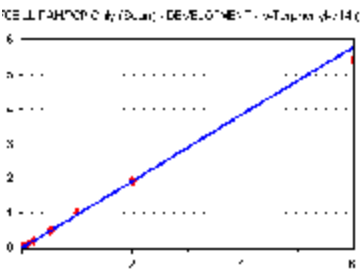


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2393	1.284	12.54
0H07053-CAL2	2	5435	1.285	12.53
0H07053-CAL3	5	13318	1.314	12.54
0H07053-CAL4	10	23593	1.673	12.53
0H07053-CAL5	20	65612	1.366	12.54
0H07053-CAL6	50	179092	1.310	12.53
0H07053-CAL7	100	385194	1.405	12.53
0H07053-CAL8	200	799981	1.278	12.54
0H07053-CAL9	400	6877	4.616	12.53
0H07053-CALA	600	2455254	1.135	12.55

**AVE RF 1.339      RF RSD 10.88      AVE RT 12.54**

### p-Terphenyl-d14 (Surr)

Curve Fit: **AVERAGE RF**

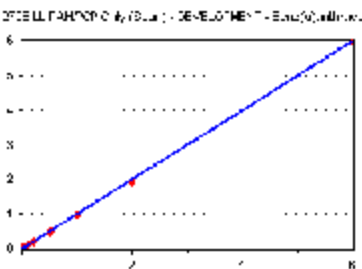


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1766	0.948	12.73
0H07053-CAL2	2	3805	0.900	12.73
0H07053-CAL3	5	9780	0.965	12.73
0H07053-CAL4	10	14134	1.003	12.73
0H07053-CAL5	20	48455	1.009	12.73
0H07053-CAL6	50	134305	0.983	12.73
0H07053-CAL7	100	271448	0.990	12.73
0H07053-CAL8	200	597044	0.954	12.73
0H07053-CAL9	400	5584	4.314	12.73
0H07053-CALA	600	1953505	0.903	12.74

**AVE RF 0.961      RF RSD 4.15      AVE RT 12.73**

### Benz(a)anthracene

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	2208	1.185	14.61
0H07053-CAL2	2	4545	1.074	14.61
0H07053-CAL3	5	9736	0.961	14.61
0H07053-CAL4	10	13000	0.922	14.61
0H07053-CAL5	20	46250	0.963	14.61
0H07053-CAL6	50	131678	0.964	14.61
0H07053-CAL7	100	263502	0.961	14.61
0H07053-CAL8	200	608983	0.973	14.62
0H07053-CAL9	400	4463	4.049	14.61
0H07053-CALA	600	2152328	0.995	14.63

**AVE RF 1.000      RF RSD 8.09      AVE RT 14.61**

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

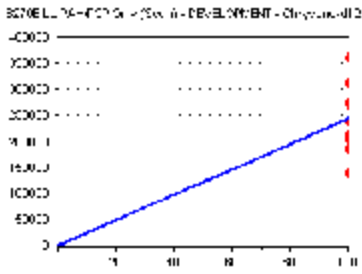
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Chrysene-d12 (ISTD)

Curve Fit: **AVERAGE RF**

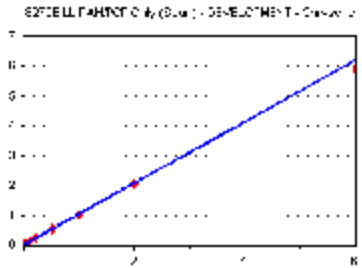


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	186345	1863.450	14.63
0H07053-CAL2	100	211495	2114.950	14.63
0H07053-CAL3	100	202721	2027.210	14.63
0H07053-CAL4	100	140980	1409.800	14.63
0H07053-CAL5	100	240100	2401.000	14.63
0H07053-CAL6	100	273325	2733.250	14.63
0H07053-CAL7	100	274150	2741.500	14.63
0H07053-CAL8	100	313061	3130.610	14.64
0H07053-CAL9	100	4064	40.640	14.63
0H07053-CALA	100	360560	3605.600	14.65

**AVE RF 2447.486      RF RSD 27.72      AVE RT 14.63**

### Chrysene

Curve Fit: **AVERAGE RF**

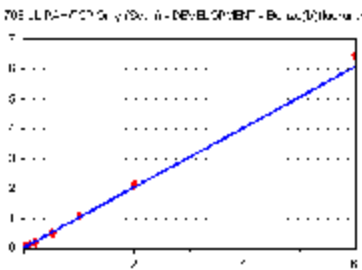


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1956	1.050	14.69
0H07053-CAL2	2	4447	1.051	14.69
0H07053-CAL3	5	10771	1.063	14.69
0H07053-CAL4	10	14280	1.013	14.69
0H07053-CAL5	20	50228	1.046	14.69
0H07053-CAL6	50	141380	1.035	14.69
0H07053-CAL7	100	284963	1.039	14.69
0H07053-CAL8	200	636457	1.017	14.70
0H07053-CAL9	400	5042	4.178	14.69
0H07053-CALA	600	2128504	0.984	14.71

**AVE RF 1.033      RF RSD 2.37      AVE RT 14.69**

### Benzo(b)fluoranthene

Curve Fit: **AVERAGE RF**

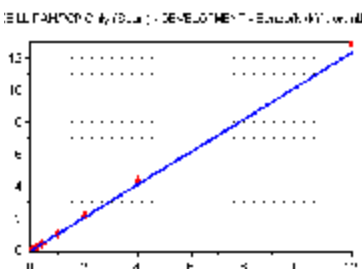


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1669	1.008	17.17
0H07053-CAL2	2	3889	1.004	17.17
0H07053-CAL3	5	8519	0.923	17.17
0H07053-CAL4	10	12095	0.982	17.17
0H07053-CAL5	20	44053	1.013	17.17
0H07053-CAL6	50	128755	1.015	17.17
0H07053-CAL7	100	256455	1.048	17.18
0H07053-CAL8	200	597527	1.054	17.19
0H07053-CAL9	400	4589	4.236	17.17
0H07053-CALA	600	2203761	1.078	17.20

**AVE RF 1.014      RF RSD 4.44      AVE RT 17.18**

### Benzo(b+k)fluoranthene(s)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	2	3202	0.967	17.17
0H07053-CAL2	4	7739	0.999	17.17
0H07053-CAL3	10	18121	0.982	17.24
0H07053-CAL4	20	24984	1.015	17.24
0H07053-CAL5	40	89892	1.033	17.17
0H07053-CAL6	100	266585	1.051	17.24
0H07053-CAL7	200	524339	1.072	17.24
0H07053-CAL8	400	1231095	1.085	17.25
0H07053-CAL9	800	9502	4.280	17.17
0H07053-CALA	1200	4430224	1.083	17.27

**AVE RF 1.032      RF RSD 4.27      AVE RT 17.22**

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

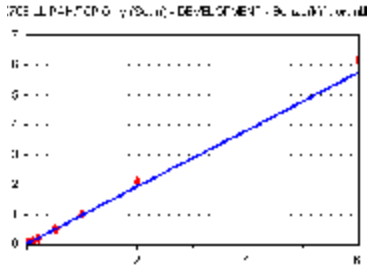
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Benzo(k)fluoranthene

Curve Fit: **AVERAGE RF**

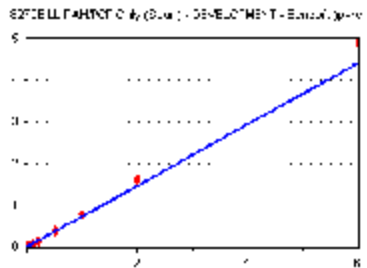


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1533	0.926	17.24
0H07053-CAL2	2	3308	0.854	17.24
0H07053-CAL3	5	8476	0.918	17.24
0H07053-CAL4	10	11317	0.919	17.24
0H07053-CAL5	20	40858	0.939	17.24
0H07053-CAL6	50	124775	0.984	17.24
0H07053-CAL7	100	245178	1.002	17.24
0H07053-CAL8	200	589910	1.040	17.25
0H07053-CAL9	400	4168	1.123	17.24
0H07053-CALA	600	2097578	1.026	17.27

**AVE RF 0.957      RF RSD 6.31      AVE RT 17.24**

### Benzo(a)pyrene

Curve Fit: **AVERAGE RF**

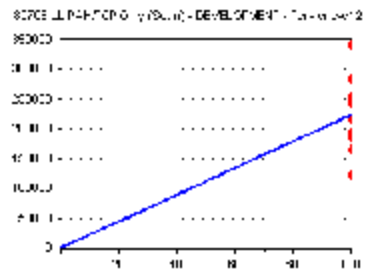


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1248	0.754	17.94
0H07053-CAL2	2	2639	0.681	17.94
0H07053-CAL3	5	5991	0.649	17.94
0H07053-CAL4	10	8146	0.662	17.94
0H07053-CAL5	20	31202	0.717	17.94
0H07053-CAL6	50	95892	0.756	17.94
0H07053-CAL7	100	190371	0.778	17.95
0H07053-CAL8	200	456627	0.805	17.95
0H07053-CAL9	400	2896	0.780	17.94
0H07053-CALA	600	1663091	0.813	17.97

**AVE RF 0.735      RF RSD 8.29      AVE RT 17.95**

### Perylene-d12 (ISTD)

Curve Fit: **AVERAGE RF**

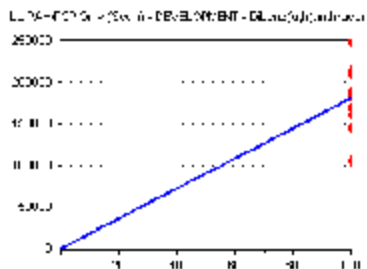


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	165499	1654.990	18.08
0H07053-CAL2	100	193636	1936.360	18.08
0H07053-CAL3	100	184622	1846.220	18.08
0H07053-CAL4	100	123119	1231.190	18.08
0H07053-CAL5	100	217457	2174.570	18.08
0H07053-CAL6	100	253628	2536.280	18.08
0H07053-CAL7	100	244609	2446.090	18.08
0H07053-CAL8	100	283565	2835.650	18.09
0H07053-CAL9	400	928	9.280	18.08
0H07053-CALA	100	340814	3408.140	18.10

**AVE RF 2229.943      RF RSD 29.49      AVE RT 18.08**

### Dibenz(a,h)anthracene-d14 (ISTD)

Curve Fit: **AVERAGE RF**



Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	100	145171	1451.710	20.46
0H07053-CAL2	100	168561	1685.610	20.46
0H07053-CAL3	100	160255	1602.550	20.46
0H07053-CAL4	100	105945	1059.450	20.46
0H07053-CAL5	100	184403	1844.030	20.46
0H07053-CAL6	100	213890	2138.900	20.47
0H07053-CAL7	100	188292	1882.920	20.47
0H07053-CAL8	100	210998	2109.980	20.47
0H07053-CAL9	400	858	8.580	20.46
0H07053-CALA	100	249015	2490.150	20.49

**AVE RF 1807.256      RF RSD 23.29      AVE RT 20.47**

## Element Calibration Review Sheet

Calibration ID: **A0H1005**

Instrument: **SV-GCMS14**

Calibration Date:

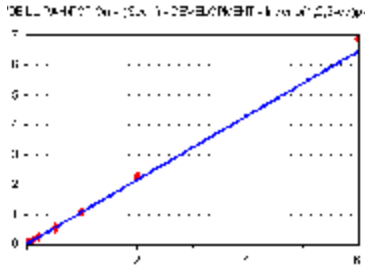
**08/10/2020**

Analysis: **8270E LL PAH/PCP Only (Sc**

Instrument Cal ID: **A0H1005**

### Indeno(1,2,3-cd)pyrene

Curve Fit: **AVERAGE RF**

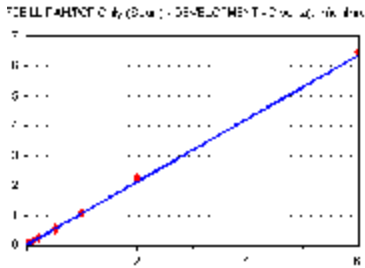


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1534	1.057	20.47
0H07053-CAL2	2	3539	1.050	20.47
0H07053-CAL3	5	8352	1.042	20.47
0H07053-CAL4	10	11197	1.057	20.47
0H07053-CAL5	20	38988	1.057	20.47
0H07053-CAL6	50	112418	1.051	20.47
0H07053-CAL7	100	206306	1.096	20.48
0H07053-CAL8	200	476115	1.128	20.48
0H07053-CAL9	400	3761	1.096	20.47
0H07053-CALA	600	1715742	1.148	20.51

**AVE RF 1.076      RF RSD 3.58      AVE RT 20.48**

### Dibenz(a,h)anthracene

Curve Fit: **AVERAGE RF**

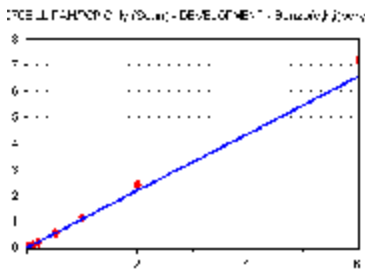


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1542	1.062	20.53
0H07053-CAL2	2	3567	1.058	20.53
0H07053-CAL3	5	8113	1.013	20.53
0H07053-CAL4	10	10692	1.009	20.53
0H07053-CAL5	20	38552	1.045	20.53
0H07053-CAL6	50	109524	1.024	20.53
0H07053-CAL7	100	209030	1.110	20.54
0H07053-CAL8	200	473722	1.123	20.54
0H07053-CAL9	400	4242	1.227	20.53
0H07053-CALA	600	1613131	1.080	20.56

**AVE RF 1.058      RF RSD 3.83      AVE RT 20.54**

### Benzo(g,h,i)perylene

Curve Fit: **AVERAGE RF**

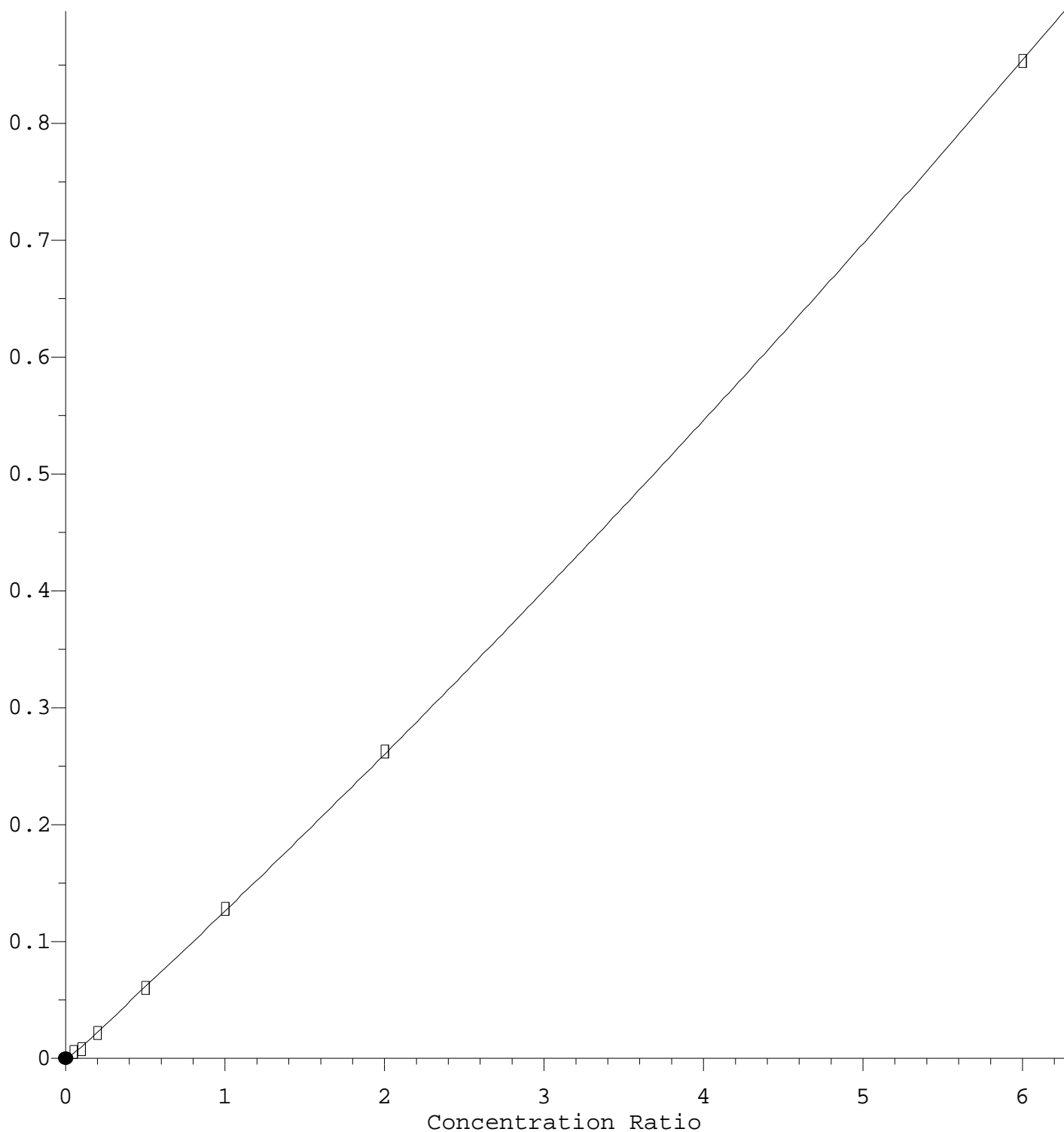


Standard	Concentration	Response	Response Factor	RT
0H07053-CAL1	1	1456	1.003	21.00
0H07053-CAL2	2	3455	1.025	21.00
0H07053-CAL3	5	8033	1.003	21.00
0H07053-CAL4	10	11076	1.045	21.00
0H07053-CAL5	20	39660	1.075	21.00
0H07053-CAL6	50	118269	1.106	21.01
0H07053-CAL7	100	220629	1.172	21.01
0H07053-CAL8	200	511963	1.213	21.02
0H07053-CAL9	400	4287	1.249	21.04
0H07053-CALA	600	1802480	1.206	21.04

**AVE RF 1.094      RF RSD 7.73      AVE RT 21.01**

2,4,6-Tribromophenol (Surr)

Response Ratio



$R = 2.86e-003 A^2 + 1.26e-001 A - 2.41e-003$

Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Quadratic w(1/a)

Method Name: M:\methods\SV14\_080720.M

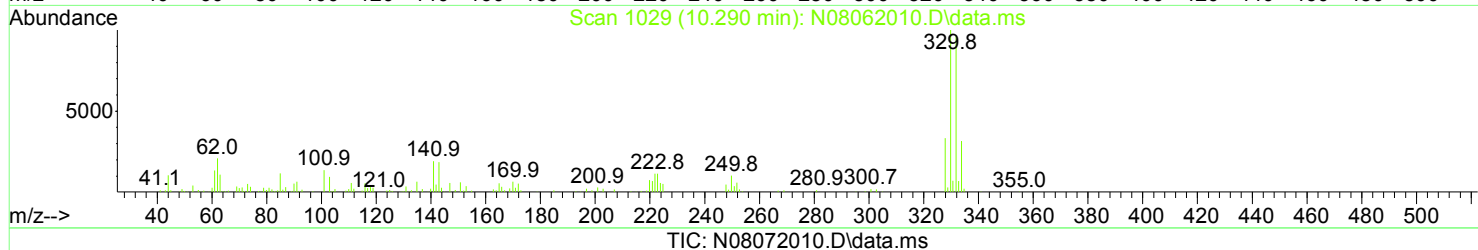
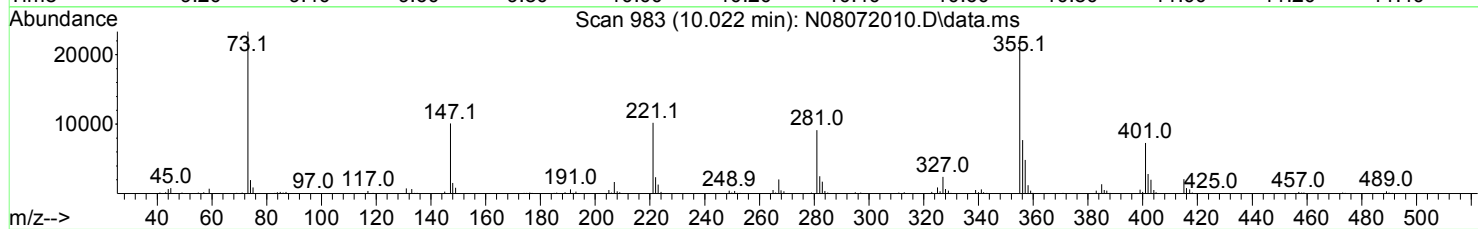
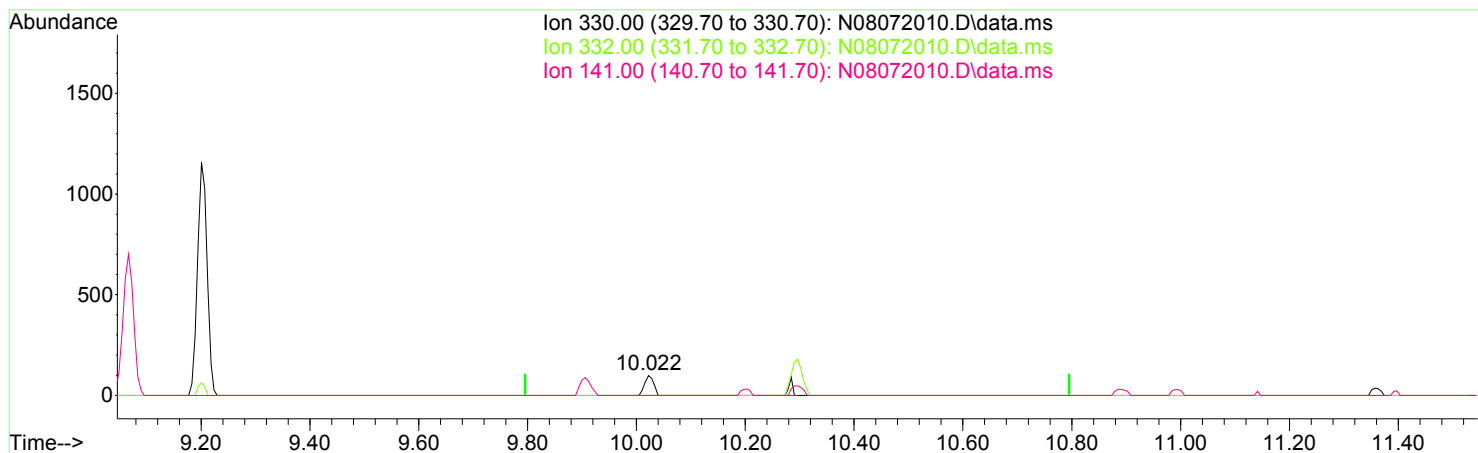
Calibration Table Last Updated: Mon Aug 10 09:29:52 2020



Quantitation Report (Qedit)

Data Path : M:\data\2020-08\0H07053\REQUANT\  
 Data File : N08072010.D  
 Acq On : 07 Aug 2020 04:50 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL1  
 Misc : 1x, A20H127@1PPB  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 12:57:45 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



(17) 2,4,6-Tribromophenol (Surr) (S)

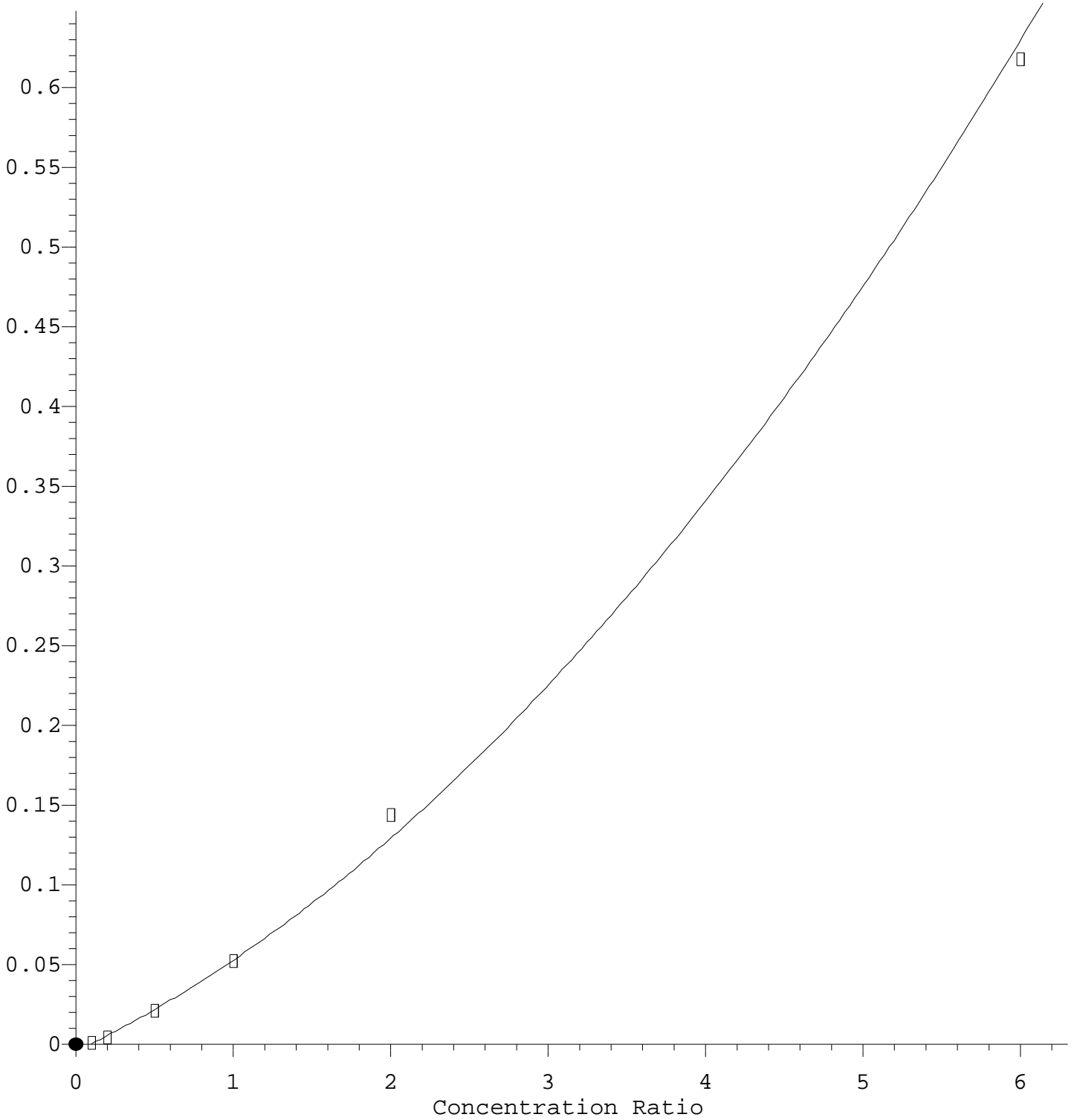
10.022min (-0.274) 2.45 ng/ml m

response 155

Ion	Exp%	Act%
330.00	100.00	100.00
332.00	99.00	0.00#
141.00	30.00	0.00
0.00	0.00	0.00

Pentachlorophenol (PCP)

Response Ratio



$R = 9.72e-003 A^*A + 4.74e-002 A - 4.31e-003$

Coef of Det ( $r^2$ ) = 0.994 Curve Fit: Quadratic w( $1/a^2$ )

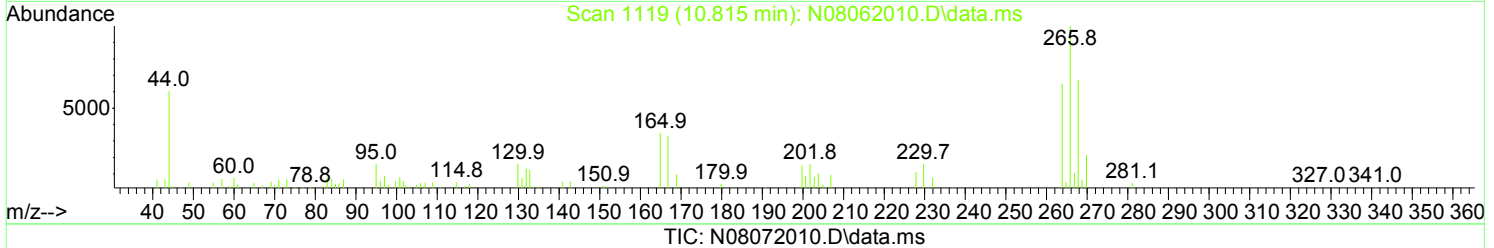
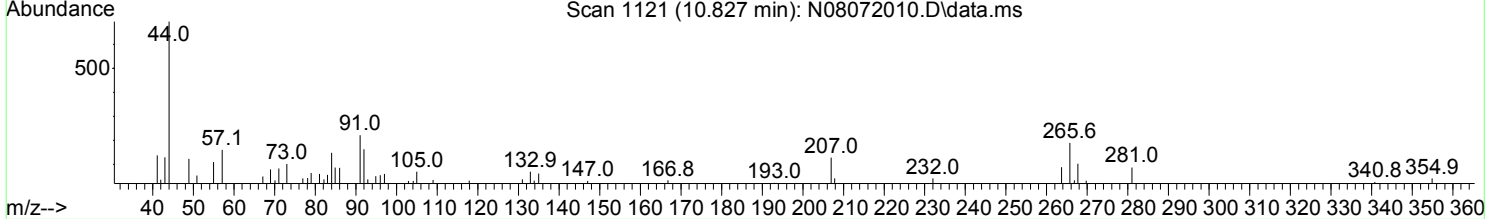
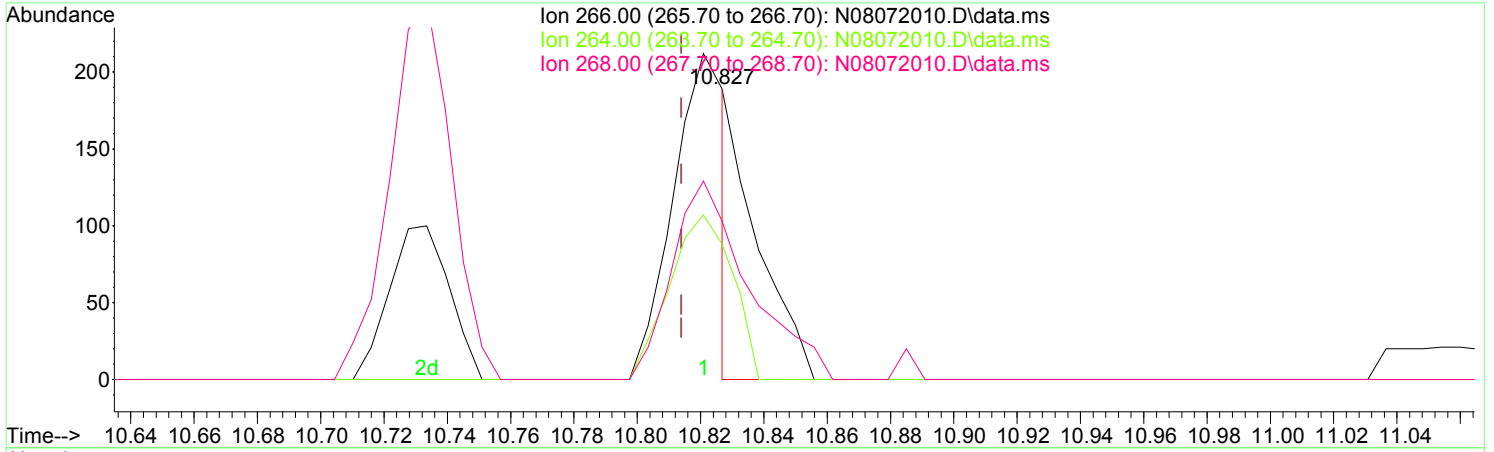
Method Name: M:\methods\SV14\_080720.M

Calibration Table Last Updated: Mon Aug 10 09:29:52 2020

Quantitation Report (Qedit)

Data Path : M:\data\2020-08\0H07053\REQUANT\  
 Data File : N08072010.D  
 Acq On : 07 Aug 2020 04:50 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL1  
 Misc : 1x, A20H127@1PPB  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 12:57:45 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



(18) Pentachlorophenol (PCP) (T)

10.827min (+ 0.013) 9.86 ng/ml m

response 107

Ion	Exp%	Act%
266.00	100.00	100.00
264.00	63.00	46.56
268.00	64.00	54.50
0.00	0.00	0.00

# CALIBRATION SEQUENCE REVIEW SHEET

SEQUENCE: 0H07053

## Analysis Included

8270E LL PAH/PCP Only (Scan) - DEVELOPMENT

### INSTRUMENT SEQUENCE LOG

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>STDID</u>	<u>ISTD ID</u>	<u>Analyzed</u>
0H07053-TUN1	MS Tune	Soil	A20H065	A20G263	8/7/2020 3:49:00PM
0H07053-ICB1	Initial Cal Blank	Soil		A20G263	8/7/2020 4:17:00PM
0H07053-CAL1	Cal Standard	Soil	A20H127	"	8/7/2020 4:50:00PM
0H07053-CAL2	Cal Standard	Soil	A20H128	"	8/7/2020 5:23:00PM
0H07053-CAL3	Cal Standard	Soil	A20H129	"	8/7/2020 5:56:00PM
0H07053-CAL4	Cal Standard	Soil	A20H130	"	8/7/2020 6:29:00PM
0H07053-CAL5	Cal Standard	Soil	A20H131	"	8/7/2020 7:02:00PM
0H07053-CAL6	Cal Standard	Soil	A20H132	"	8/7/2020 7:35:00PM
0H07053-CAL7	Cal Standard	Soil	A20H133	"	8/7/2020 8:07:00PM
0H07053-CAL8	Cal Standard	Soil	A20H134	"	8/7/2020 8:40:00PM
0H07053-CAL9	Cal Standard	Soil	A20H135	"	8/7/2020 9:12:00PM
0H07053-CALA	Cal Standard	Soil	A20H136	"	8/7/2020 9:45:00PM
0H07053-ICV1	Initial Cal Check	Soil	A20H138	"	8/7/2020 11:23:00PM

### CALIBRATION STANDARD RECOVERIES

Calibration: A0H1005

Instrument: SV-GCMS14

8270E LL PAH/PCP Only (Sca

Sequence: 0H07053

Matrix: Soil

	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual
0H07053-CAL1					
0H07053-CAL2					
0H07053-CAL3					
0H07053-CAL4					
0H07053-CAL5					
0H07053-CAL6					
0H07053-CAL7					
0H07053-CAL8					
<del>0H07053-CAL9</del>					
Fluoranthene	10.0000	269.44	400	67	Misinjection.
Fluorene	10.0000	213.74	400	53	Point not
Pentachlorophenol (PCP)	100.0000	8.93	400	2	included.
0H07053-CALA	Inst. MRL	Recalc Res.	Cal Level	%Rec.	Qual



Evaluate Continuing Calibration Report

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 13:00:22 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

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	108	0.00
2 S	Nitrobenzene-d5 (Surr)	50.000	47.127	5.7	102	0.00
3 T	Decalin	50.000	43.576	12.8	106	0.00
4 T	Naphthalene	50.000	48.281	3.4	108	0.00
5 T	2-Methylnaphthalene	50.000	50.681	-1.4	105	0.00
6 T	1-Methylnaphthalene	50.000	50.028	-0.1	105	0.00
7 T	1,1'-Biphenyl	50.000	48.208	3.6	102	0.00
8 T	2,6-Dimethylnaphthalene	50.000	48.235	3.5	100	0.00
9 I	Acenaphthene-d10 (ISTD)	100.000	100.000	0.0	104	0.00
10 S	2-Fluorobiphenyl (Surr)	50.000	50.247	-0.5	100	0.00
11 T	Acenaphthylene	50.000	52.097	-4.2	104	0.00
12 T	Acenaphthene	50.000	49.583	0.8	103	0.00
13 T	Dibenzofuran	50.000	49.295	1.4	99	0.00
14 T	1,6,7-Trimethylnaphthalene	50.000	48.012	4.0	97	0.00
15 T	Fluorene	50.000	50.676	-1.4	101	0.00
16 I	Phenanthrene-d10 (ISTD)	100.000	100.000	0.0	104	0.00
17 S	2,4,6-Tribromophenol (Surr)	50.000	43.379	13.2	91	0.00
18 T	Pentachlorophenol (PCP)	50.000	42.038	15.9	86	0.00
19 T	Dibenzothiopene	50.000	47.268	5.5	97	0.00
20 T	Phenanthrene	50.000	49.220	1.6	103	0.00
21 T	Anthracene	50.000	52.836	-5.7	104	0.00
22 T	Carbazole	50.000	54.947	-9.9	99	0.00
23 T	1-Methylphenanthrene	50.000	50.291	-0.6	100	0.00
24 T	Fluoranthene	50.000	52.978	-6.0	106	0.00
25 I	Chrysene-d12 (ISTD)	100.000	100.000	0.0	102	0.00
26 T	Pyrene	50.000	51.172	-2.3	106	0.00
27 S	Terphenyl-d14 (Surr)	50.000	50.301	-0.6	100	0.00
28 T	Benz(a)anthracene	50.000	45.988	8.0	97	0.00
29 T	Chrysene	50.000	48.870	2.3	99	0.00

Evaluate Continuing Calibration Report

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 13:00:22 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

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)
30 I	Perylene-d12 (ISTD)	100.000	100.000	0.0	99	0.00
31 T	Benzo(b)fluoranthene	50.000	49.217	1.6	97	0.00
32 T	Benzo(k)fluoranthene	50.000	50.597	-1.2	97	0.00
33 T	Benzo(b+k)fluoranthene	100.000	100.350	-0.3	97	-0.06
34 T	Benzo(e)pyrene	50.000	48.283	3.4	95	0.00
35 T	Benzo(a)pyrene	50.000	56.591	-13.2	108	0.00
36 T	Perylene	50.000	48.448	3.1	94	0.00
37 I	Dibenz(a,h)Anthrcene-d14(IS	100.000	100.000	0.0	93	0.00
38 T	Indeno(1,2,3-cd)Pyrene	50.000	46.572	6.9	89	0.00
39 T	Dibenz(a,h)anthracene	50.000	49.152	1.7	94	0.00
40 T	Benzo(g,h,i)perylene	50.000	51.184	-2.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072008.D  
 Acq On : 07 Aug 2020 03:49 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-TUN1  
 Misc : 1x, A20H065 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:11:05 2020  
 Quant Method : M:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Fri Aug 07 10:05:11 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.484	150	163773	2.00	ug/mL	0.00
2) Naphthalene-d8	7.685	136	475496	2.00	ug/mL	0.00
3) Acenaphthene-d10	9.445	162	281036	2.00	ug/mL	0.00
5) Phenanthrene-d10	10.955	188	535972	2.00	ug/mL	0.00
11) Chrysene-d12	14.545	240	459393	2.00	ug/mL	0.00
12) Perylene-d12	16.649	264	434984	2.00	ug/mL	0.00
13) Dibenz(a,h)anthracene-...	17.821	292	405964	2.00	ug/mL	# 0.00
Target Compounds						Qvalue
4) Pentachlorophenol	10.780	266	1448817	54.59	ug/mL	78
6) DFTPP	11.252	442	2832049	65.45	ug/mL#	59
7) Benzidine	12.383	184	5105310	26.78	ug/mL	96
8) 4,4-DDE	12.610	TIC	300849	No Calib		
9) 4,4-DDD	13.094	TIC	224952	No Calib		
10) 4,4-DDT	13.618	TIC	18783119	34.17	ug/mL	93
-----						

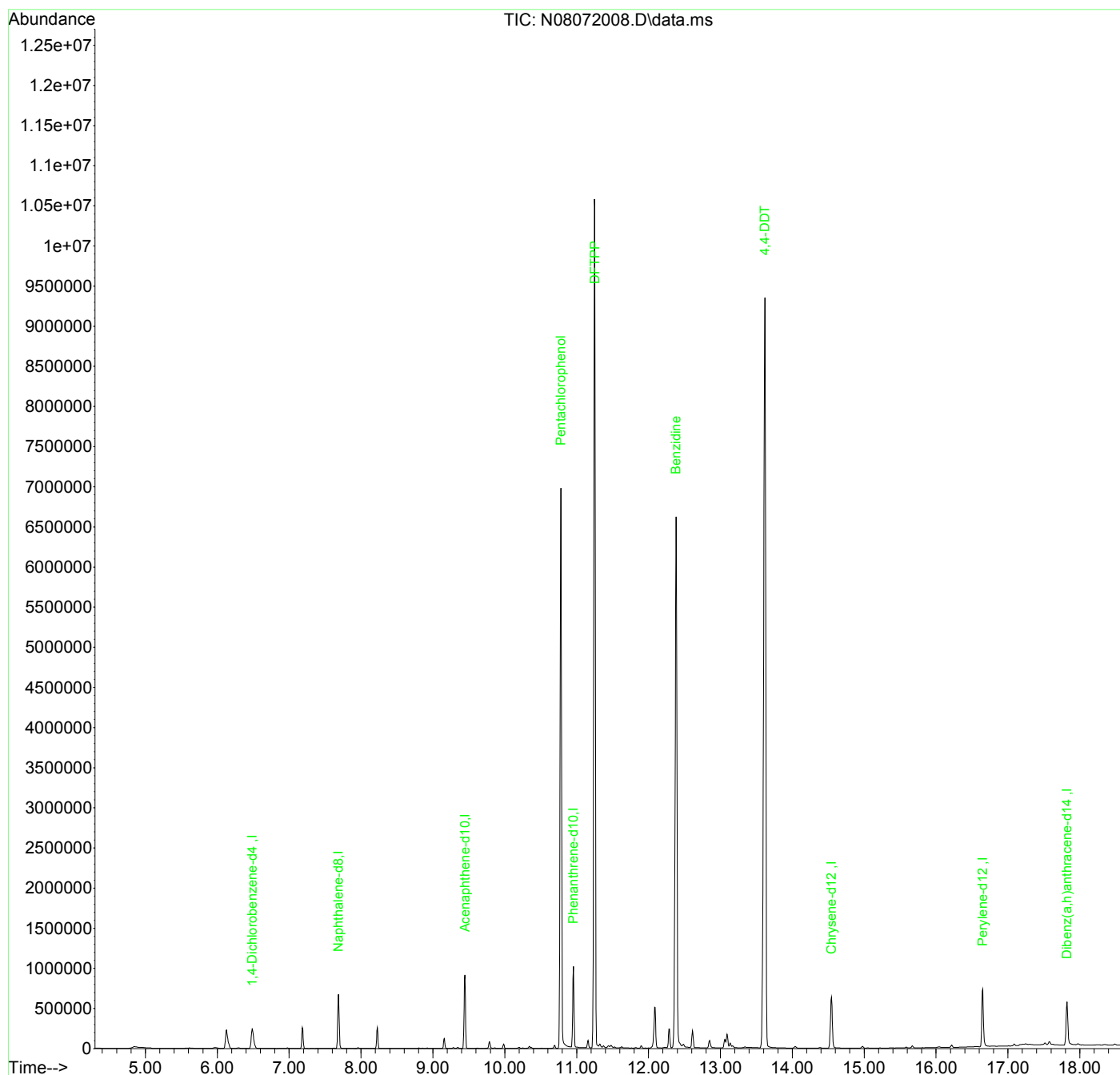
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
Data File : N08072008.D  
Acq On : 07 Aug 2020 03:49 pm  
Operator : JK/ AMS/ DTH  
Sample : 0H07053-TUN1  
Misc : 1x, A20H065 DFTPP@45  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 10 09:11:05 2020  
Quant Method : M:\methods\DFTPP.M  
Quant Title : 8270 DFTPP Tune Method  
QLast Update : Fri Aug 07 10:05:11 2020  
Response via : Initial Calibration

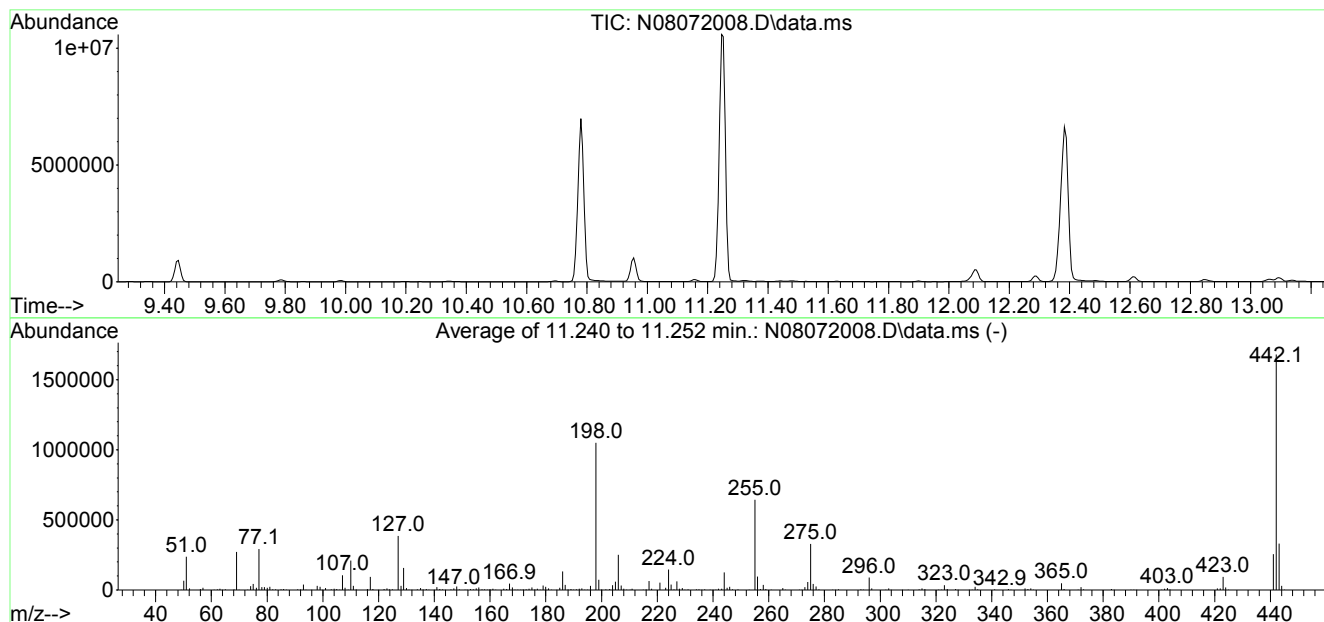


Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072008.D  
 Acq On : 07 Aug 2020 03:49 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-TUN1  
 Misc : 1x, A20H065 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1

*JK 8/10/20*

Integration File: rteint.p

Method : M:\methods\DFTPP.M  
 Title : 8270 DFTPP Tune Method  
 Last Update : Fri Aug 07 10:05:11 2020



AutoFind: Scans 1192, 1193, 1194; Background Corrected with Scan 1186

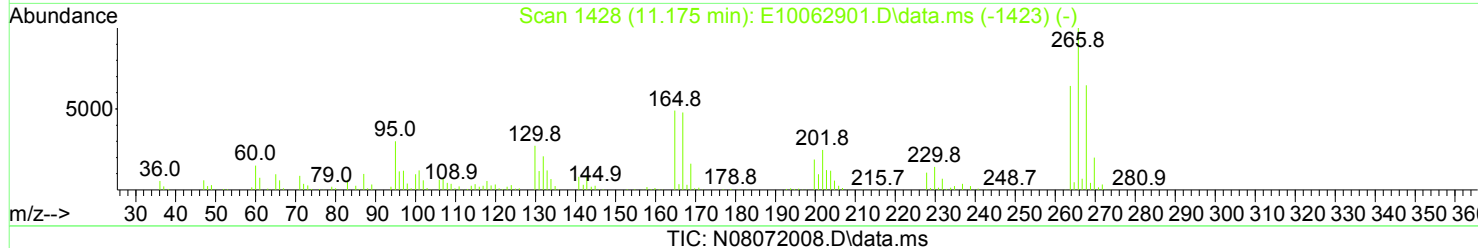
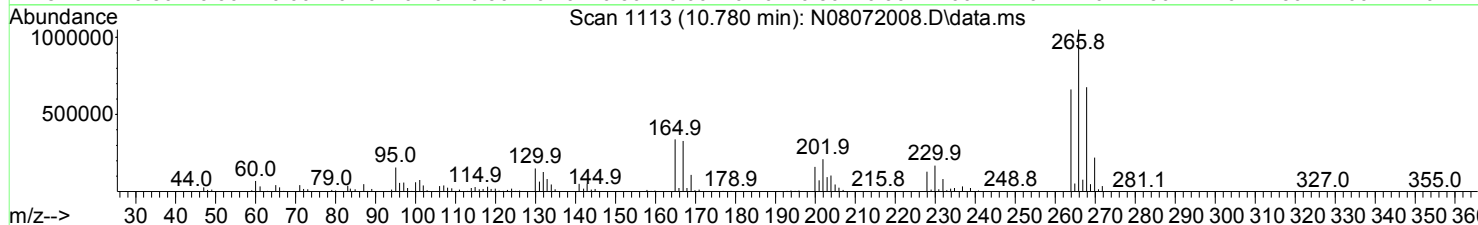
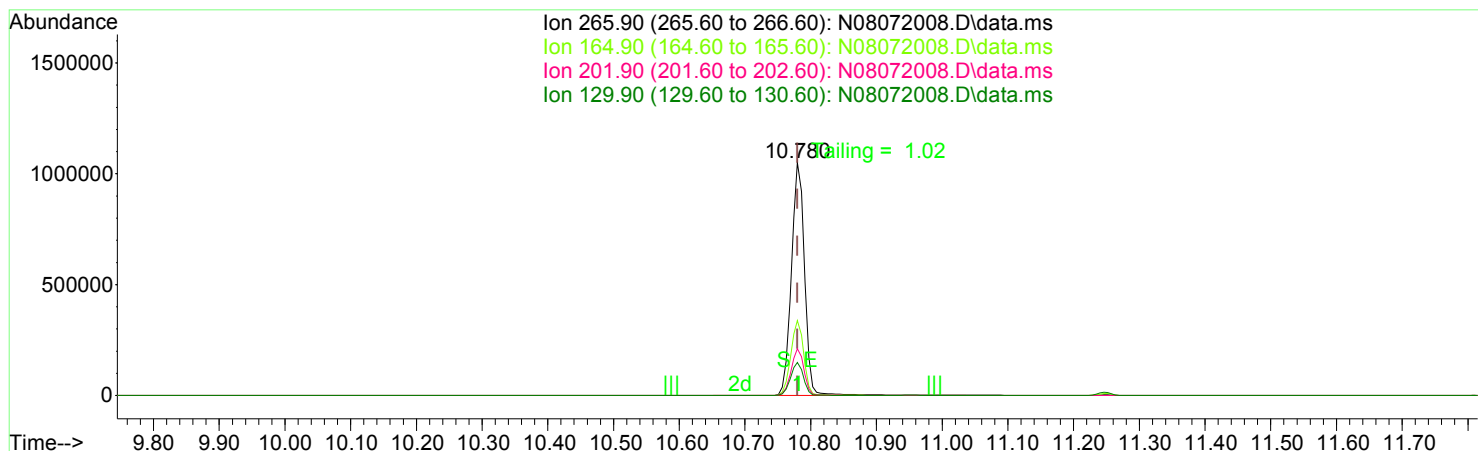
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	5279	PASS
69	69	100	100	100.0	272328	PASS
70	69	0.00	2	0.5	1310	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1049408	PASS
199	198	5	9	6.9	72101	PASS
365	198	1	100	4.5	46976	PASS
441	443	0.01	150	77.1	255680	PASS
442	198	0.10	200	160.2	1680896	PASS
443	442	15	24	19.7	331605	PASS

Quantitation Report (Qedit)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072008.D  
 Acq On : 07 Aug 2020 03:49 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-TUN1  
 Misc : 1x, A20H065 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:11:05 2020  
 Quant Method : M:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Fri Aug 07 10:05:11 2020  
 Response via : Initial Calibration



(4) Pentachlorophenol  
 10.780min (-0.000) 54.59 ug/mL  
 response 1448817

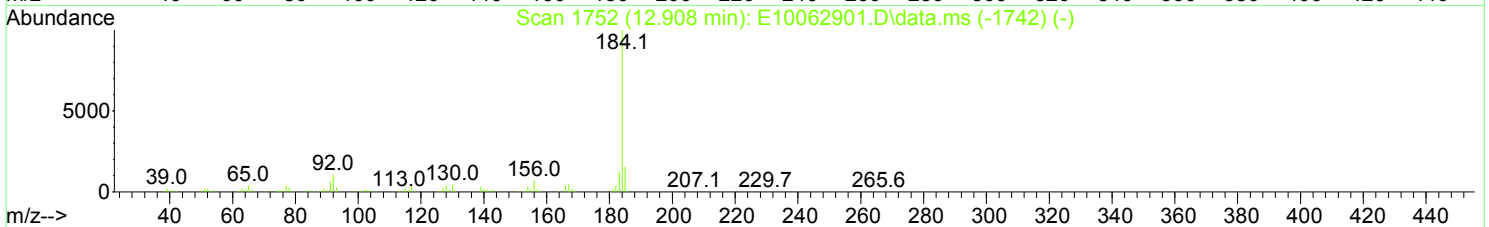
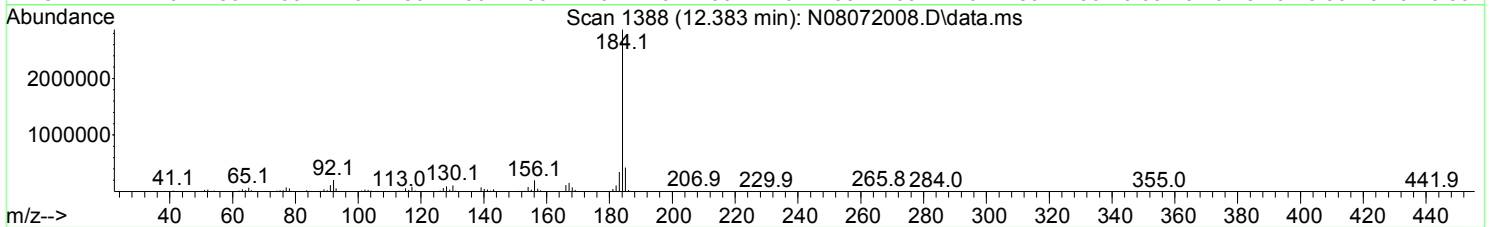
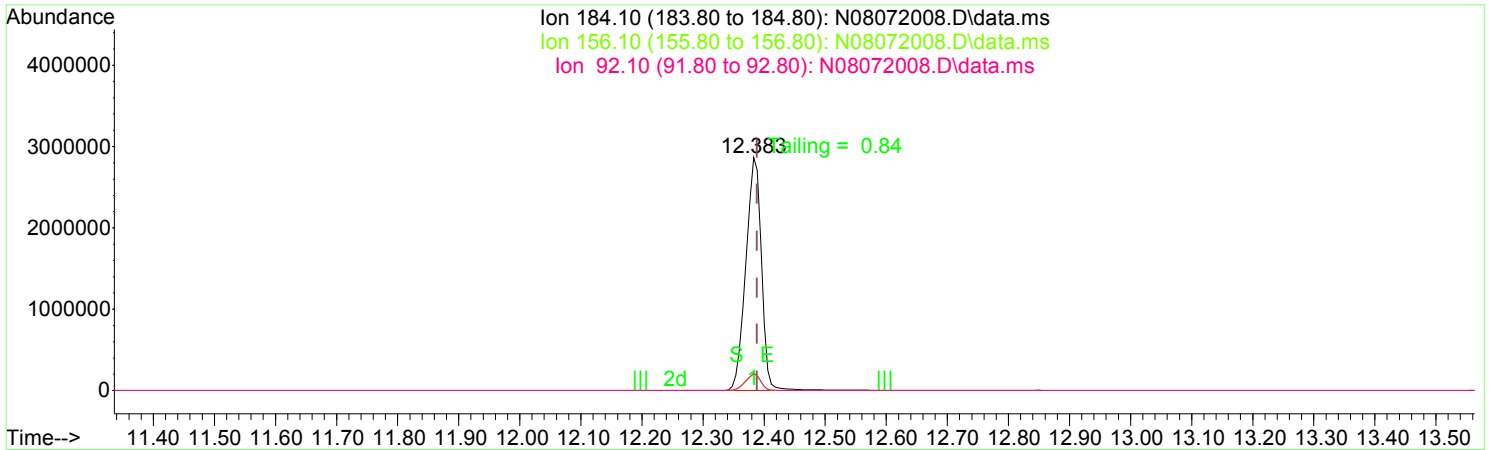
Ion	Exp%	Act%
265.90	100.00	100.00
164.90	50.60	32.20
201.90	25.80	20.03
129.90	27.30	14.24

Quantitation Report (Qedit)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072008.D  
 Acq On : 07 Aug 2020 03:49 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-TUN1  
 Misc : 1x, A20H065 DFTPP@45  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 10 09:11:05 2020  
 Quant Method : M:\methods\DFTPP.M  
 Quant Title : 8270 DFTPP Tune Method  
 QLast Update : Fri Aug 07 10:05:11 2020  
 Response via : Initial Calibration

*JK 8/10/20*



TIC: N08072008.D\data.ms

(7) Benzidine

12.383min (-0.006) 26.78 ug/mL

response 5105310

Ion	Exp%	Act%
184.10	100.00	100.00
156.10	8.50	6.84
92.10	8.20	7.13
0.00	0.00	0.00

## DDT Breakdown Check (Validated 5/1/2013)

From:  
OH07053-TUN1  
SV-GCMS14

*JK 8/10/20*

First Column Area Counts	Percent Breakdown	
DDE	300849	
DDD	224952	
DDT	18783119	<b>2.72 PASS</b>

Breakdown must be less than 20% to accept sample data.

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072009.D  
 Acq On : 07 Aug 2020 04:17 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 2 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:16:01 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Naphthalene-d8 (ISTD)	7.738	136	228242	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	148452	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	270088	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	219016	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	194197	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	172516	100.00	ng/ml	0.00	
<b>System Monitoring Compounds</b>							
2) Nitrobenzene-d5 (Surr)	7.032	82	68	0.11	ng/ml	-0.02	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
17) 2,4,6-Tribromophenol (...)	0.000	330	0	0.00	ng/ml		
27) Terphenyl-d14 (Surr)	12.727	244	58	0.03	ng/ml	0.00	
<b>Target Compounds</b>							
							Qvalue
3) Decalin	0.000		0		N.D.		
4) Naphthalene	7.767	128	846		N.D.		
5) 2-Methylnaphthalene	0.000		0		N.D.		
6) 1-Methylnaphthalene	8.542	142	59		N.D.		
7) 1,1'-Biphenyl	8.909	154	411		N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0		N.D.		
11) Acenaphthylene	9.346	152	91		N.D.		
12) Acenaphthene	0.000		0		N.D.		
13) Dibenzofuran	9.696	168	116		N.D.		
14) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.		
15) Fluorene	10.046	166	67		N.D.		
18) Pentachlorophenol (PCP)	10.815	266	1622	31.24	ng/ml		95
19) Dibenzothiopene	10.891	184	158		N.D.		
20) Phenanthrene	11.019	178	375		N.D.		
21) Anthracene	11.066	178	58		N.D.		
22) Carbazole	11.241	167	119		N.D.		
23) 1-Methylphenanthrene	0.000		0		N.D.		
24) Fluoranthene	12.266	202	92		N.D.		
26) Pyrene	12.535	202	69		N.D.		
28) Benz(a)anthracene	14.627	228	552		N.D.		
29) Chrysene	14.627	228	542		N.D.		
31) Benzo(b)fluoranthene	0.000		0		N.D.		

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072009.D  
 Acq On : 07 Aug 2020 04:17 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 09:16:01 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

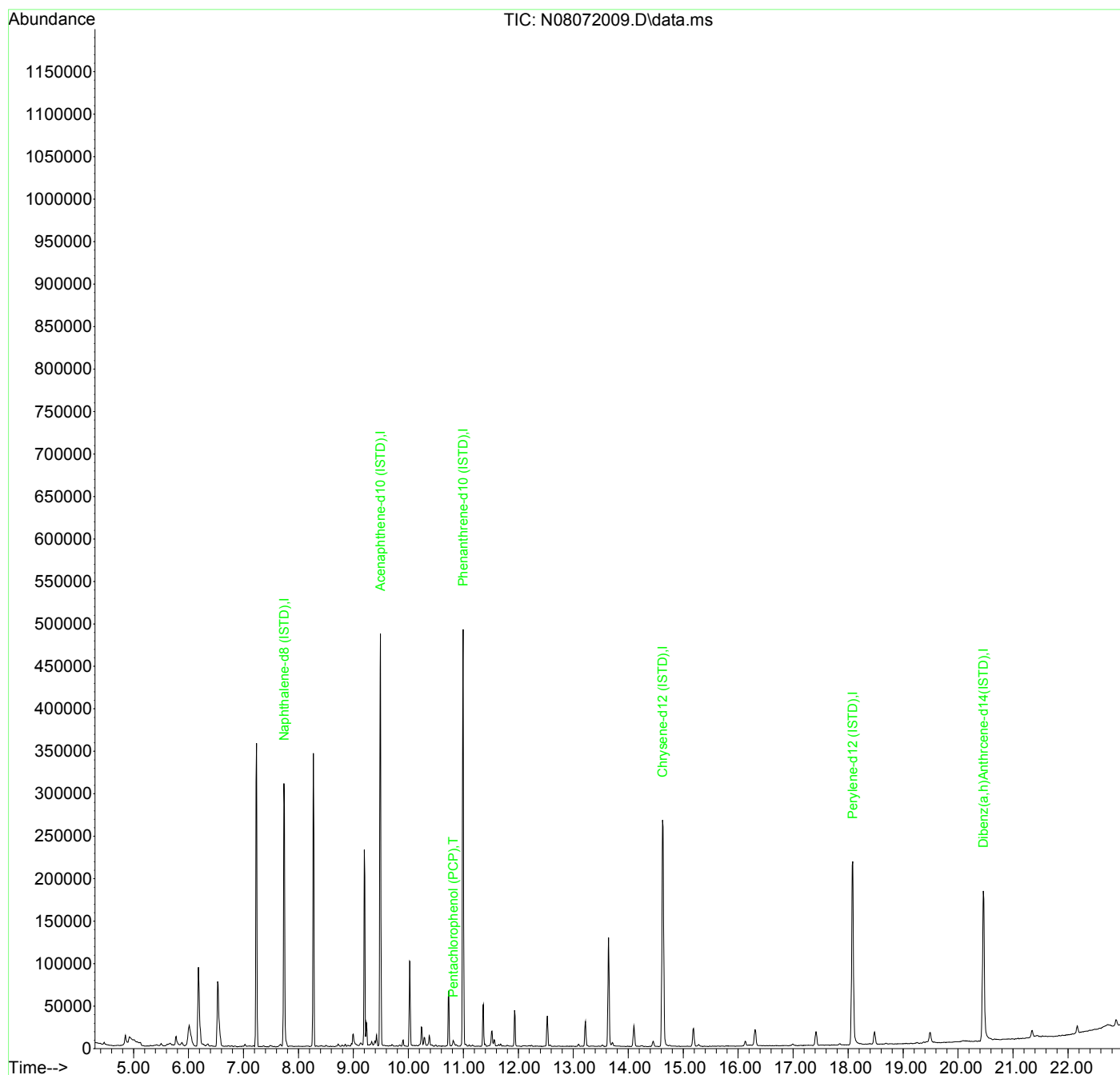
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	0.000		0	N.D.		
33) Benzo(b+k)fluoranthene	0.000		0	N.D.		
34) Benzo(e)pyrene	18.083	252	583	N.D.		
35) Benzo(a)pyrene	0.000		0	N.D.		
36) Perylene	18.124	252	53	N.D.		
38) Indeno(1,2,3-cd)Pyrene	20.467	276	121	N.D.		
39) Dibenz(a,h)anthracene	20.531	278	111	N.D.		
40) Benzo(g,h,i)perylene	0.000		0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
Data File : N08072009.D  
Acq On : 07 Aug 2020 04:17 pm  
Operator : JK/ AMS/ DTH  
Sample : 0H07053-ICB1  
Misc : 1x, DCM + ISTD  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 09:16:01 2020  
Quant Method : M:\methods\SV14\_080720.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Mon Aug 10 09:15:49 2020  
Response via : Initial Calibration





Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072009.D  
 Acq On : 07 Aug 2020 04:17 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 2 Sample Multiplier: 1

*JK 8/10/20*

Final Requant

Quant Time: Aug 10 13:00:09 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.738	136	228242	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	148452	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	270088	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	219016	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	194197	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	172516	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.032	82	68	0.11	ng/ml	-0.02	
10) 2-Fluorobiphenyl (Surr)	0.000	172	0	0.00	ng/ml		
17) 2,4,6-Tribromophenol (...)	0.000	330	0	0.00	ng/ml		
27) Terphenyl-d14 (Surr)	12.727	244	58	0.03	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	0.000		0		N.D.		
4) Naphthalene	7.767	128	846		N.D.		
5) 2-Methylnaphthalene	0.000		0		N.D.		
6) 1-Methylnaphthalene	8.542	142	59		N.D.		
7) 1,1'-Biphenyl	8.909	154	411		N.D.		
8) 2,6-Dimethylnaphthalene	0.000		0		N.D.		
11) Acenaphthylene	9.346	152	91		N.D.		
12) Acenaphthene	0.000		0		N.D.		
13) Dibenzofuran	9.696	168	116		N.D.		
14) 1,6,7-Trimethylnaphtha...	0.000		0		N.D.		
15) Fluorene	10.046	166	67		N.D.		
18) Pentachlorophenol (PCP)	10.815	266	1622	20.88	ng/ml		95
19) Dibenzothiopene	10.891	184	158		N.D.		
20) Phenanthrene	11.019	178	375		N.D.		
21) Anthracene	11.066	178	58		N.D.		
22) Carbazole	11.241	167	119		N.D.		
23) 1-Methylphenanthrene	0.000		0		N.D.		
24) Fluoranthene	12.266	202	92		N.D.		
26) Pyrene	12.535	202	69		N.D.		
28) Benz(a)anthracene	14.627	228	552		N.D.		
29) Chrysene	14.627	228	542		N.D.		
31) Benzo(b)fluoranthene	0.000		0		N.D.		

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072009.D  
 Acq On : 07 Aug 2020 04:17 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICB1  
 Misc : 1x, DCM + ISTD  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 13:00:09 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

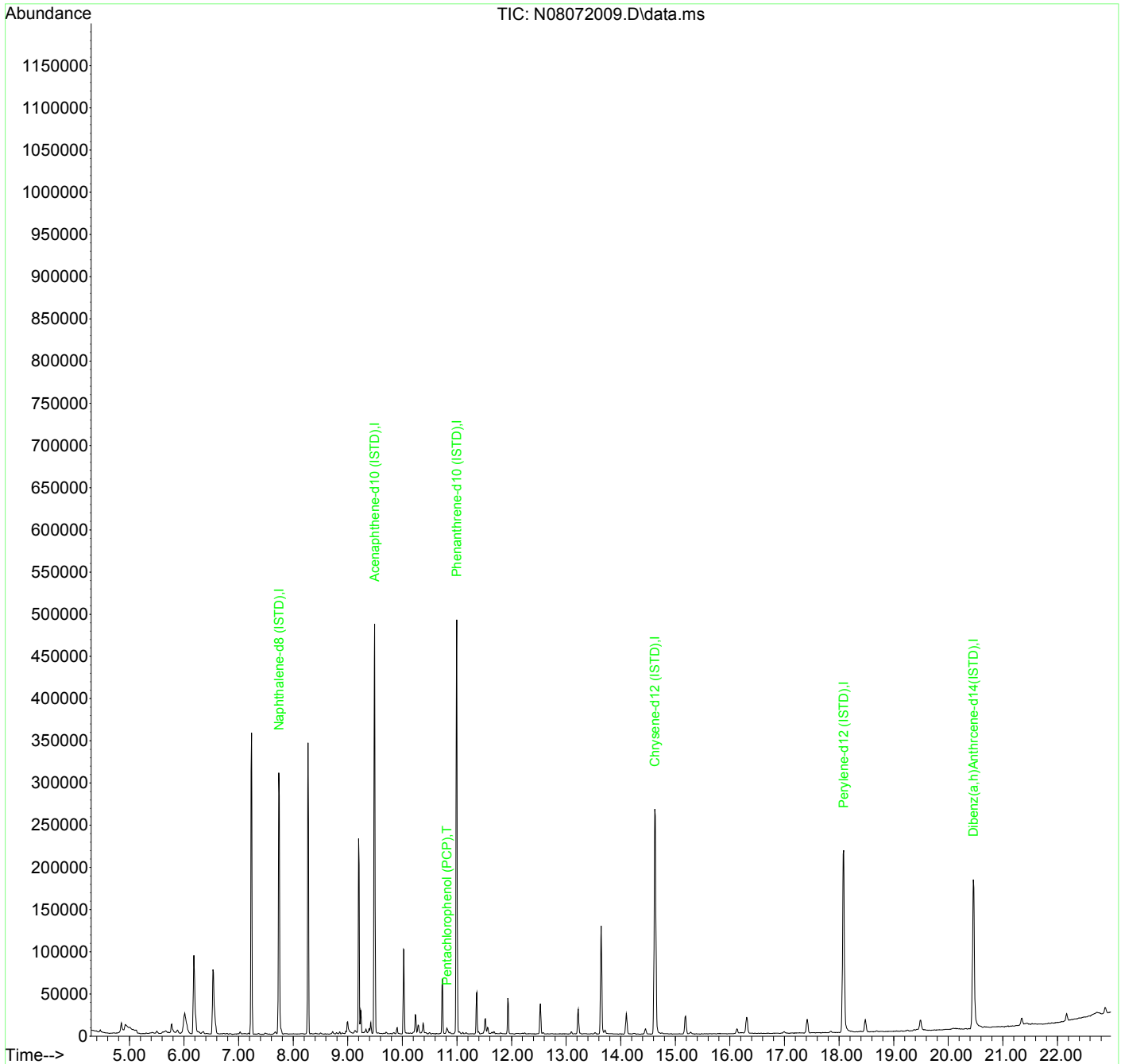
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	0.000		0			N.D.
33) Benzo(b+k)fluoranthene	0.000		0			N.D.
34) Benzo(e)pyrene	18.083	252	583			N.D.
35) Benzo(a)pyrene	0.000		0			N.D.
36) Perylene	18.124	252	53			N.D.
38) Indeno(1,2,3-cd)Pyrene	20.467	276	121			N.D.
39) Dibenz(a,h)anthracene	20.531	278	111			N.D.
40) Benzo(g,h,i)perylene	0.000		0			N.D.

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
Data File : N08072009.D  
Acq On : 07 Aug 2020 04:17 pm  
Operator : JK/ AMS/ DTH  
Sample : 0H07053-ICB1  
Misc : 1x, DCM + ISTD  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 10 13:00:09 2020  
Quant Method : M:\methods\SV14\_080720.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Mon Aug 10 09:22:10 2020  
Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072010.D  
 Acq On : 07 Aug 2020 04:50 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL1  
 Misc : 1x, A20H127@1PPB  
 ALS Vial : 3 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:16:16 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.738	136	209647	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	135719	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	232658	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	186345	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.078	264	165499	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	145171	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	636	1.12	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	1868	0.91	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	0.000	330	0	0.00	ng/ml		
27) Terphenyl-d14 (Surr)	12.727	244	1766	1.00	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.207	138	73	0.50	ng/ml#		25
4) Naphthalene	7.761	128	2500	1.18	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	1415	1.04	ng/ml		94
6) 1-Methylnaphthalene	8.542	142	1486	1.02	ng/ml		92
7) 1,1'-Biphenyl	8.909	154	2062	1.10	ng/ml		95
8) 2,6-Dimethylnaphthalene	9.066	156	1406	1.10	ng/ml		94
11) Acenaphthylene	9.346	152	2000	0.85	ng/ml		94
12) Acenaphthene	9.521	153	1719	1.05	ng/ml		94
13) Dibenzofuran	9.696	168	2029	0.96	ng/ml		93
14) 1,6,7-Trimethylnaphtha...	9.906	170	1573	1.07	ng/ml		77
15) Fluorene	10.046	166	1639	1.02	ng/ml		99
18) Pentachlorophenol (PCP)	10.821	266	350	17.29	ng/ml		90
19) Dibenzothiopene	10.891	184	2158	0.95	ng/ml		95
20) Phenanthrene	11.019	178	2780	1.13	ng/ml		99
21) Anthracene	11.072	178	2020	0.99	ng/ml		97
22) Carbazole	11.241	167	1385	0.95	ng/ml		97
23) 1-Methylphenanthrene	11.643	192	1628	0.93	ng/ml		90
24) Fluoranthene	12.255	202	2457	0.97	ng/ml		95
26) Pyrene	12.535	202	2393	0.92	ng/ml		97
28) Benz(a)anthracene	14.610	228	2208	1.21	ng/ml		95
29) Chrysene	14.685	228	1956	1.02	ng/ml		96
31) Benzo(b)fluoranthene	17.174	252	1669	1.01	ng/ml		92

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072010.D  
 Acq On : 07 Aug 2020 04:50 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL1  
 Misc : 1x, A20H127@1PPB  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 09:16:16 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

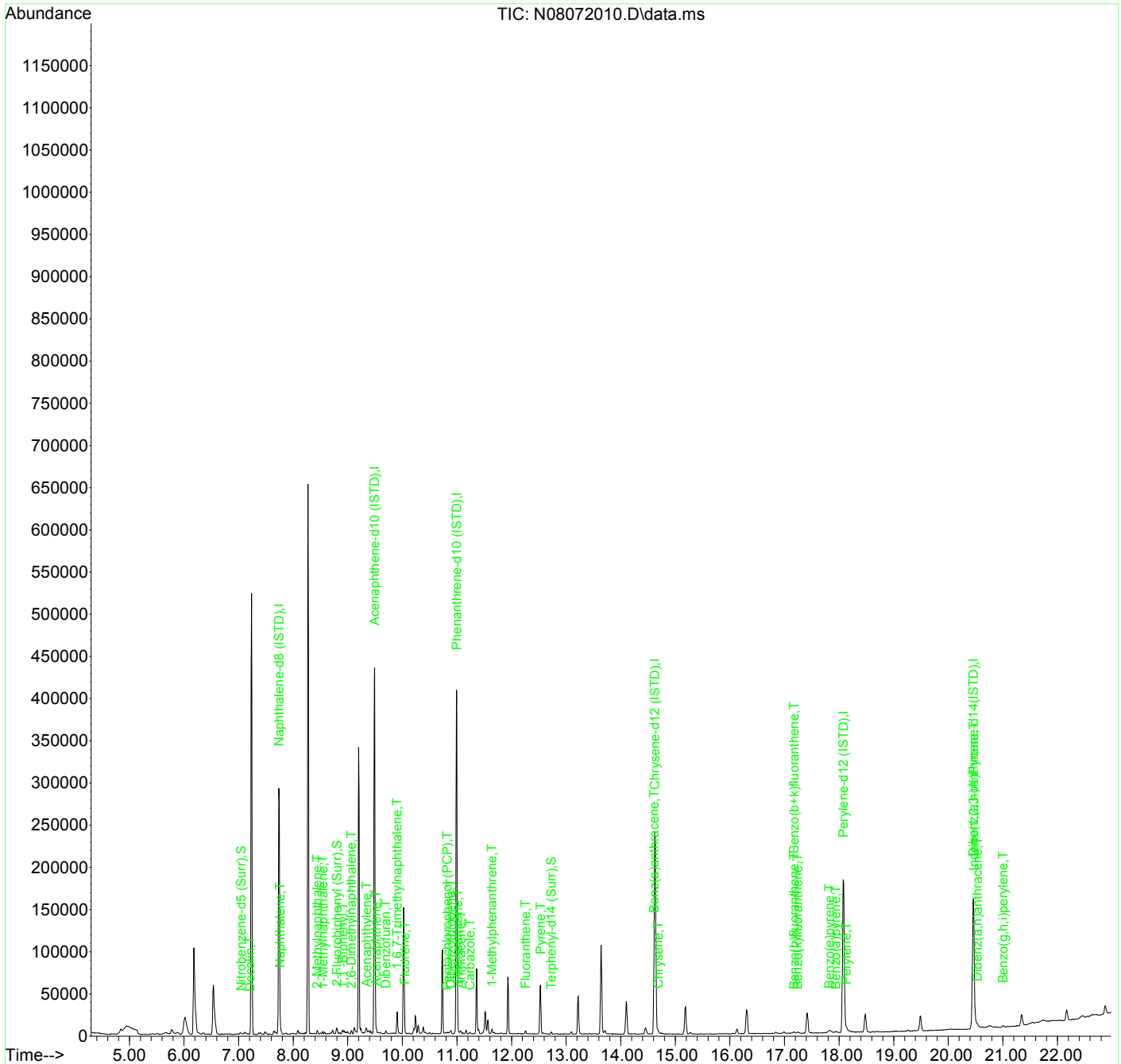
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	1533	0.97	ng/ml	89
33) Benzo(b+k)fluoranthene	17.174	252	3202	1.90	ng/ml	91
34) Benzo(e)pyrene	17.821	252	1561	0.93	ng/ml	97
35) Benzo(a)pyrene	17.938	252	1248	1.03	ng/ml	94
36) Perylene	18.136	252	1844	1.02	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.467	276	1534	0.97	ng/ml	100
39) Dibenz(a,h)anthracene	20.531	278	1542	1.00	ng/ml	82
40) Benzo(g,h,i)perylene	21.004	276	1456	0.89	ng/ml	82

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072010.D  
 Acq On : 07 Aug 2020 04:50 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL1  
 Misc : 1x, A20H127@1PPB  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 10 09:16:16 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072011.D  
 Acq On : 07 Aug 2020 05:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL2  
 Misc : 1x, A20H128@2PPB  
 ALS Vial : 4 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:16:29 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.737	136	224491	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	140735	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	244122	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	211495	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.077	264	193636	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	168561	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	1270	2.09	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	3920	1.84	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	534	3.11	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.727	244	3805	1.90	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	253	1.63	ng/ml		92
4) Naphthalene	7.761	128	4784	2.12	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	3298	2.27	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	3232	2.08	ng/ml		99
7) 1,1'-Biphenyl	8.909	154	4144	2.07	ng/ml		92
8) 2,6-Dimethylnaphthalene	9.066	156	2952	2.16	ng/ml		95
11) Acenaphthylene	9.346	152	4408	1.81	ng/ml		98
12) Acenaphthene	9.521	153	3546	2.08	ng/ml		94
13) Dibenzofuran	9.696	168	4184	1.91	ng/ml		95
14) 1,6,7-Trimethylnaphtha...	9.906	170	2991	1.96	ng/ml		89
15) Fluorene	10.046	166	3421	2.05	ng/ml		98
18) Pentachlorophenol (PCP)	10.821	266	248	15.68	ng/ml		78
19) Dibenzothiopene	10.891	184	4973	2.10	ng/ml		92
20) Phenanthrene	11.019	178	5605	2.16	ng/ml		99
21) Anthracene	11.071	178	4212	1.97	ng/ml		94
22) Carbazole	11.240	167	2808	1.83	ng/ml		99
23) 1-Methylphenanthrene	11.643	192	3946	2.14	ng/ml		95
24) Fluoranthene	12.260	202	5246	1.97	ng/ml		94
26) Pyrene	12.534	202	5435	1.84	ng/ml		96
28) Benz(a)anthracene	14.609	228	4545	2.19	ng/ml		95
29) Chrysene	14.685	228	4447	2.04	ng/ml		94
31) Benzo(b)fluoranthene	17.174	252	3889	2.01	ng/ml		93

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072011.D  
 Acq On : 07 Aug 2020 05:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL2  
 Misc : 1x, A20H128@2PPB  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 09:16:29 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	3308	1.78	ng/ml	88
33) Benzo(b+k)fluoranthene	17.174	252	7739	3.92	ng/ml	90
34) Benzo(e)pyrene	17.821	252	3634	1.84	ng/ml	96
35) Benzo(a)pyrene	17.937	252	2639	1.86	ng/ml	92
36) Perylene	18.141	252	4119	1.95	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	3539	1.94	ng/ml	78
39) Dibenz(a,h)anthracene	20.531	278	3567	1.99	ng/ml	81
40) Benzo(g,h,i)perylene	21.003	276	3455	1.82	ng/ml	76

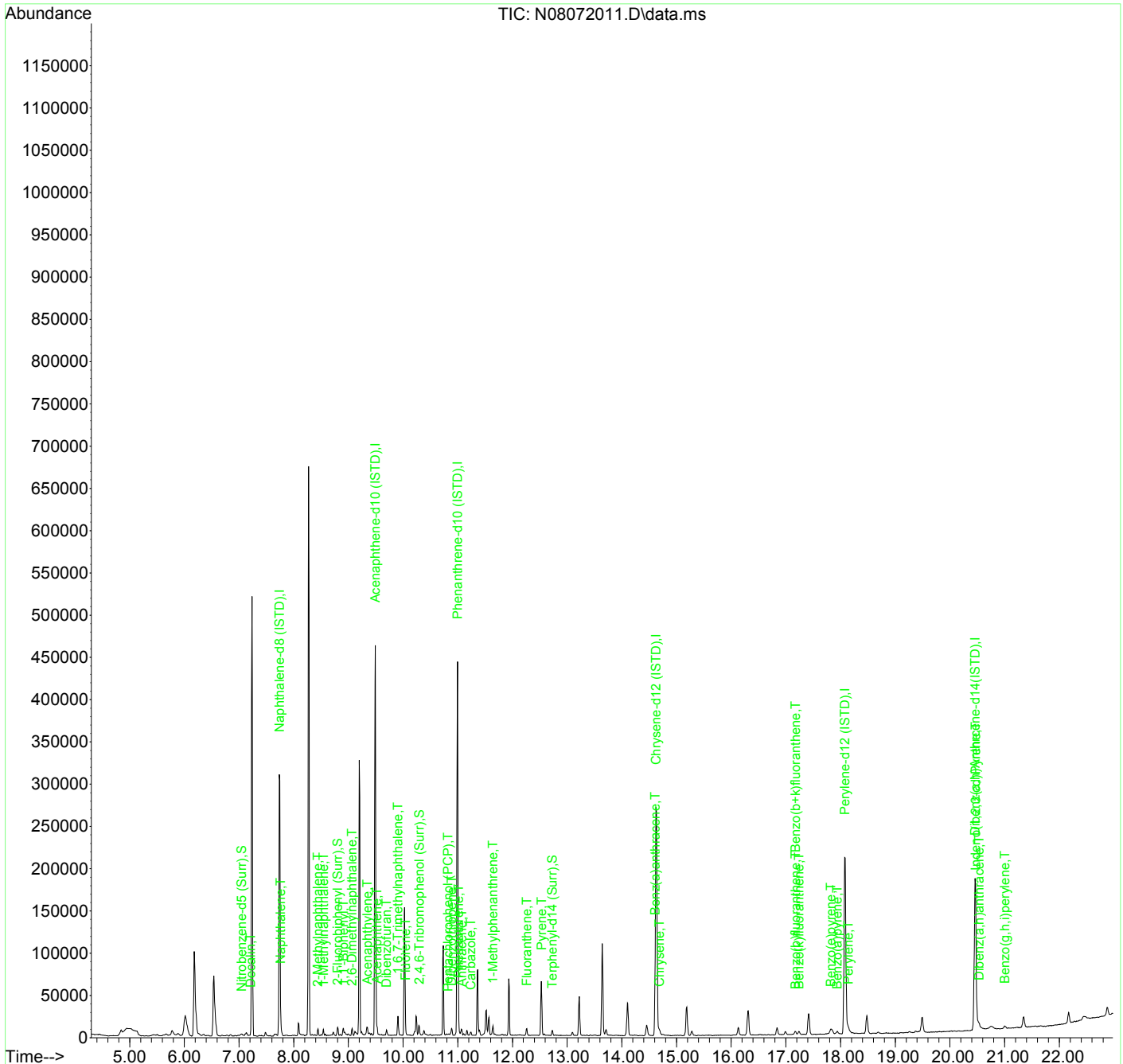
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
Data File : N08072011.D  
Acq On : 07 Aug 2020 05:23 pm  
Operator : JK/ AMS/ DTH  
Sample : 0H07053-CAL2  
Misc : 1x, A20H128@2PPB  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 10 09:16:29 2020  
Quant Method : M:\methods\SV14\_080720.M  
Quant Title : EPA 8270D: Semivolatile Organics  
QLast Update : Mon Aug 10 09:15:49 2020  
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072012.D  
 Acq On : 07 Aug 2020 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL3  
 Misc : 1x, A20H129@5PPB  
 ALS Vial : 5 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:17:50 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.743	136	226097	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	144275	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	247788	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	202721	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	184622	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	160255	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	2968	4.84	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	10278	4.72	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	1324	6.44	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.727	244	9780	5.09	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	681	4.34	ng/ml		76
4) Naphthalene	7.761	128	11565	5.08	ng/ml		97
5) 2-Methylnaphthalene	8.443	142	8315	5.68	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	8413	5.36	ng/ml		97
7) 1,1'-Biphenyl	8.909	154	10169	5.03	ng/ml		94
8) 2,6-Dimethylnaphthalene	9.066	156	7473	5.43	ng/ml		96
11) Acenaphthylene	9.346	152	11485	4.61	ng/ml		98
12) Acenaphthene	9.521	153	9131	5.22	ng/ml		93
13) Dibenzofuran	9.696	168	10731	4.77	ng/ml		96
14) 1,6,7-Trimethylnaphtha...	9.906	170	7770	4.97	ng/ml		94
15) Fluorene	10.046	166	8551	4.99	ng/ml		98
18) Pentachlorophenol (PCP)	10.821	266	227	15.35	ng/ml		87
19) Dibenzothiopene	10.891	184	12260	5.09	ng/ml		92
20) Phenanthrene	11.019	178	13283	5.05	ng/ml		98
21) Anthracene	11.072	178	10318	4.74	ng/ml		98
22) Carbazole	11.235	167	7544	4.84	ng/ml		98
23) 1-Methylphenanthrene	11.643	192	9463	5.06	ng/ml		98
24) Fluoranthene	12.261	202	13102	4.85	ng/ml		94
26) Pyrene	12.535	202	13318	4.71	ng/ml		99
28) Benz(a)anthracene	14.610	228	9736	4.90	ng/ml		98
29) Chrysene	14.685	228	10771	5.16	ng/ml		95
31) Benzo(b)fluoranthene	17.174	252	8519	4.61	ng/ml		92

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072012.D  
 Acq On : 07 Aug 2020 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL3  
 Misc : 1x, A20H129@5PPB  
 ALS Vial : 5 Sample Multiplier: 1

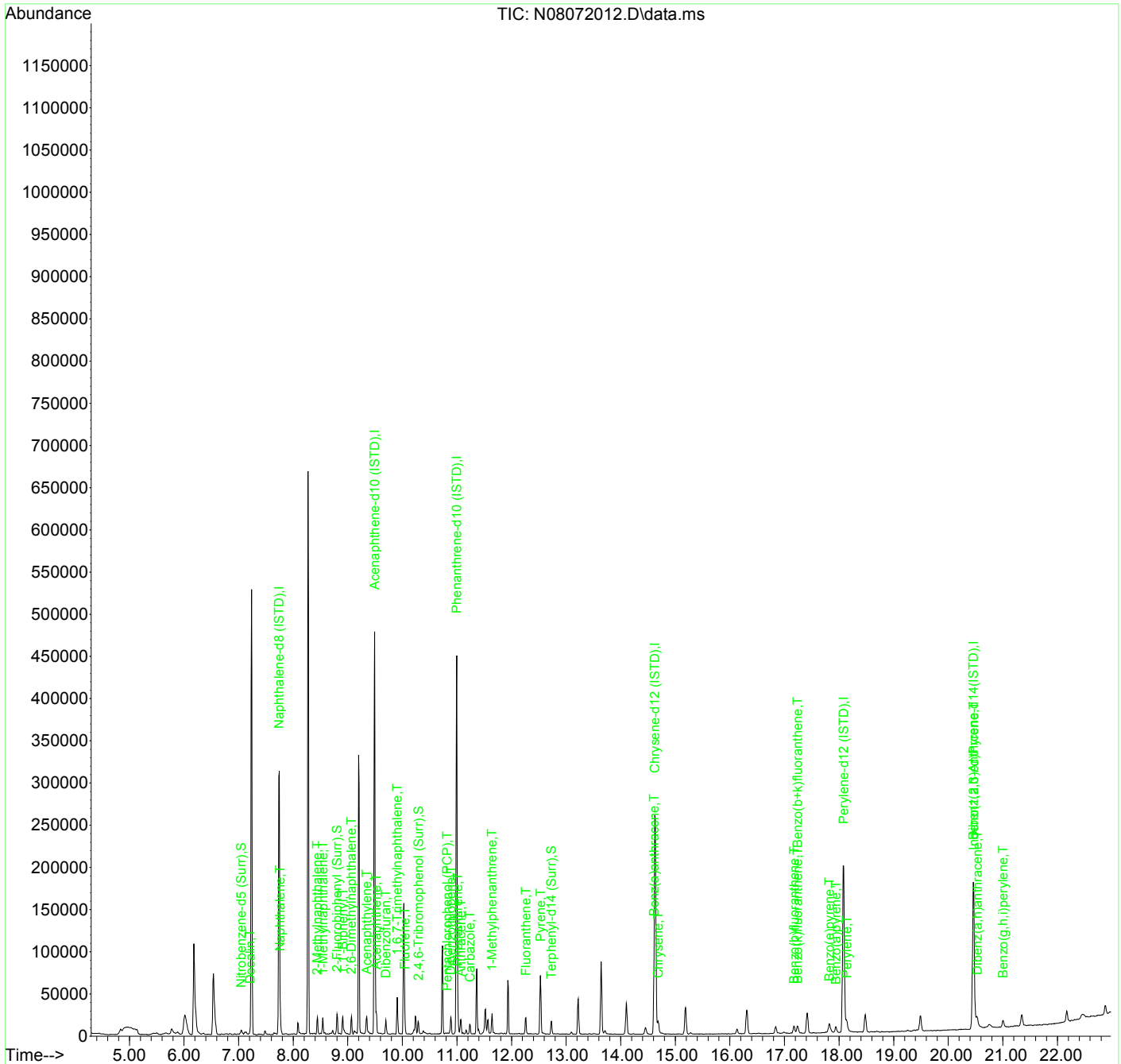
Quant Time: Aug 10 09:17:50 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	8476	4.79	ng/ml	90
33) Benzo(b+k)fluoranthene	17.238	252	18121	9.64	ng/ml	90
34) Benzo(e)pyrene	17.821	252	8909	4.74	ng/ml	95
35) Benzo(a)pyrene	17.943	252	5991	4.42	ng/ml	96
36) Perylene	18.142	252	9618	4.77	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.467	276	8352	4.81	ng/ml	77
39) Dibenz(a,h)anthracene	20.531	278	8113	4.77	ng/ml	77
40) Benzo(g,h,i)perylene	21.004	276	8033	4.44	ng/ml	74

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

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072012.D  
 Acq On : 07 Aug 2020 05:56 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL3  
 Misc : 1x, A20H129@5PPB  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 09:17:50 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072013.D  
 Acq On : 07 Aug 2020 06:29 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL4  
 Misc : 1x, A20H130@10PPB  
 ALS Vial : 6 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:18:14 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.743	136	228032	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	141904	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	222500	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	140980	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.077	264	123119	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	105945	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.055	82	5945	9.62	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	19786	9.23	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	1728	8.99	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.732	244	14134	10.57	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	1550	9.80	ng/ml#		77
4) Naphthalene	7.761	128	23497	10.24	ng/ml		100
5) 2-Methylnaphthalene	8.443	142	16041	10.87	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	16943	10.71	ng/ml		96
7) 1,1'-Biphenyl	8.909	154	19096	9.37	ng/ml		95
8) 2,6-Dimethylnaphthalene	9.066	156	14151	10.20	ng/ml		97
11) Acenaphthylene	9.346	152	23907	9.76	ng/ml		97
12) Acenaphthene	9.521	153	16916	9.84	ng/ml		99
13) Dibenzofuran	9.696	168	19825	8.96	ng/ml		94
14) 1,6,7-Trimethylnaphtha...	9.906	170	15416	10.02	ng/ml		95
15) Fluorene	10.045	166	15667	9.29	ng/ml		99
18) Pentachlorophenol (PCP)	10.821	266	188	15.11	ng/ml		95
19) Dibenzothiopene	10.891	184	21254	9.83	ng/ml		93
20) Phenanthrene	11.019	178	23609	10.00	ng/ml		100
21) Anthracene	11.071	178	17244	8.83	ng/ml		100
22) Carbazole	11.235	167	11174	7.99	ng/ml		99
23) 1-Methylphenanthrene	11.643	192	16553	9.85	ng/ml		97
24) Fluoranthene	12.260	202	22749	9.37	ng/ml		94
26) Pyrene	12.534	202	23593	12.01	ng/ml		98
28) Benz(a)anthracene	14.609	228	13000	9.40	ng/ml		99
29) Chrysene	14.691	228	14280	9.83	ng/ml		100
31) Benzo(b)fluoranthene	17.174	252	12095	9.81	ng/ml		92

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072013.D  
 Acq On : 07 Aug 2020 06:29 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL4  
 Misc : 1x, A20H130@10PPB  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:18:14 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

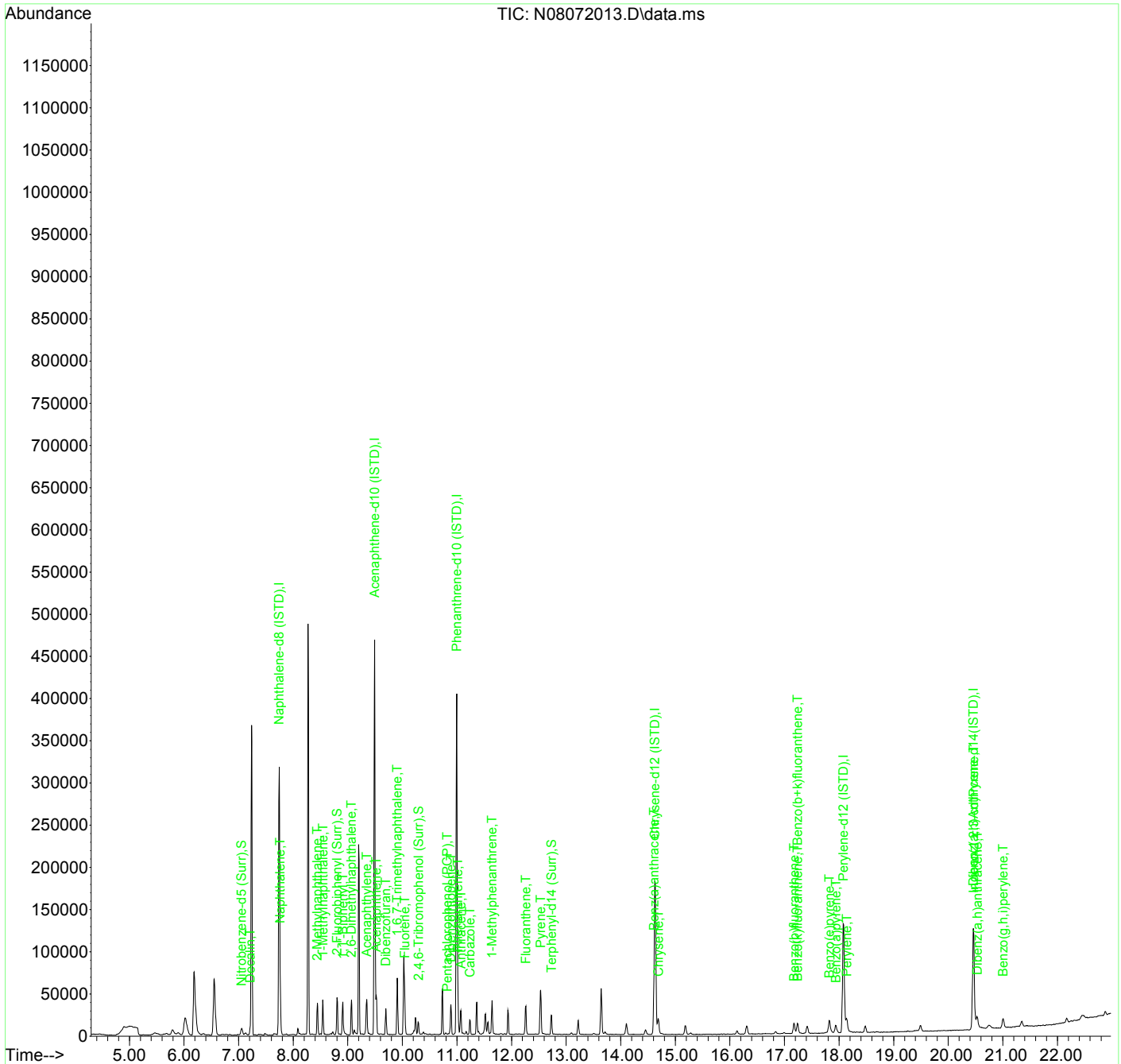
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	11317	9.58	ng/ml	91
33) Benzo(b+k)fluoranthene	17.238	252	24984	19.93	ng/ml	91
34) Benzo(e)pyrene	17.821	252	12447	9.93	ng/ml	95
35) Benzo(a)pyrene	17.943	252	8146	9.02	ng/ml	92
36) Perylene	18.141	252	13495	10.05	ng/ml	97
38) Indeno(1,2,3-cd)Pyrene	20.467	276	11197	9.75	ng/ml	77
39) Dibenz(a,h)anthracene	20.531	278	10692	9.50	ng/ml	82
40) Benzo(g,h,i)perylene	21.003	276	11076	9.26	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072013.D  
 Acq On : 07 Aug 2020 06:29 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL4  
 Misc : 1x, A20H130@10PPB  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 10 09:18:14 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072014.D  
 Acq On : 07 Aug 2020 07:02 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL5  
 Misc : 1x, A20H131@20PPB  
 ALS Vial : 7 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:18:34 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.738	136	239716	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	155110	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	281843	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.627	240	240100	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	217457	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	184403	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	13511	20.79	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	45285	19.33	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	6085	23.32	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.727	244	48455	21.28	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	2656	15.98	ng/ml		80
4) Naphthalene	7.761	128	49268	20.42	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	36143	23.29	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	36280	21.82	ng/ml		96
7) 1,1'-Biphenyl	8.909	154	45039	21.02	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.066	156	33777	23.16	ng/ml		94
11) Acenaphthylene	9.346	152	52295	19.53	ng/ml		98
12) Acenaphthene	9.521	153	38339	20.40	ng/ml		99
13) Dibenzofuran	9.696	168	47868	19.79	ng/ml		93
14) 1,6,7-Trimethylnaphtha...	9.906	170	34865	20.73	ng/ml		98
15) Fluorene	10.046	166	38684	20.99	ng/ml		99
18) Pentachlorophenol (PCP)	10.821	266	1210	26.10	ng/ml		92
19) Dibenzothiopene	10.891	184	55397	20.22	ng/ml		93
20) Phenanthrene	11.019	178	60927	20.37	ng/ml		99
21) Anthracene	11.072	178	50995	20.61	ng/ml		98
22) Carbazole	11.235	167	40816	23.03	ng/ml		98
23) 1-Methylphenanthrene	11.643	192	44908	21.09	ng/ml		96
24) Fluoranthene	12.261	202	64074	20.84	ng/ml		94
26) Pyrene	12.535	202	65612	19.61	ng/ml		99
28) Benz(a)anthracene	14.610	228	46250	19.64	ng/ml		99
29) Chrysene	14.685	228	50228	20.31	ng/ml		99
31) Benzo(b)fluoranthene	17.174	252	44053	20.23	ng/ml		93



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072014.D  
 Acq On : 07 Aug 2020 07:02 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL5  
 Misc : 1x, A20H131@20PPB  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:18:34 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

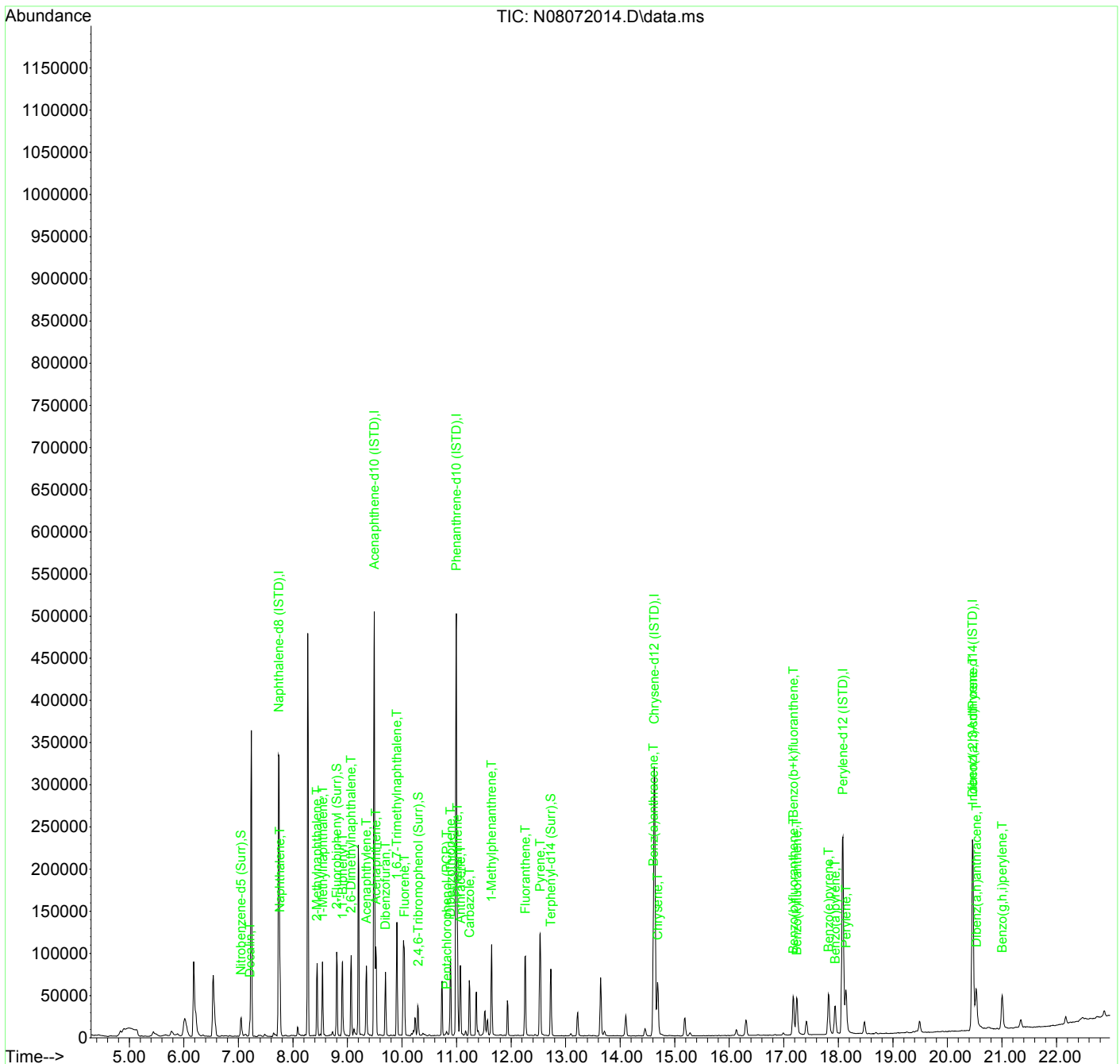
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	40858	19.58	ng/ml	90
33) Benzo(b+k)fluoranthene	17.174	252	89892	40.60	ng/ml	90
34) Benzo(e)pyrene	17.821	252	43548	19.67	ng/ml	96
35) Benzo(a)pyrene	17.944	252	31202	19.56	ng/ml	95
36) Perylene	18.142	252	49318	20.79	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.467	276	38988	19.50	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	38552	19.68	ng/ml	78
40) Benzo(g,h,i)perylene	21.004	276	39660	19.06	ng/ml	78

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072014.D  
 Acq On : 07 Aug 2020 07:02 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL5  
 Misc : 1x, A20H131@20PPB  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 10 09:18:34 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072015.D  
 Acq On : 07 Aug 2020 07:35 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL6  
 Misc : 1x, A20H132@50PPB  
 ALS Vial : 8 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:18:54 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.737	136	236348	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	157474	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	298143	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.633	240	273325	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	253628	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.467	292	213890	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	33273	51.94	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	117511	49.41	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	17962	61.71	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.733	244	134305	51.82	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	6261	38.21	ng/ml		84
4) Naphthalene	7.761	128	118307	49.74	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	92164	60.23	ng/ml		96
6) 1-Methylnaphthalene	8.542	142	90899	55.44	ng/ml		96
7) 1,1'-Biphenyl	8.909	154	115384	54.63	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.066	156	85713	59.60	ng/ml		97
11) Acenaphthylene	9.346	152	138328	50.89	ng/ml		99
12) Acenaphthene	9.521	153	96981	50.82	ng/ml		100
13) Dibenzofuran	9.696	168	125884	51.26	ng/ml		93
14) 1,6,7-Trimethylnaphtha...	9.906	170	90118	52.79	ng/ml		99
15) Fluorene	10.046	166	102499	54.78	ng/ml		99
18) Pentachlorophenol (PCP)	10.815	266	6271	70.23	ng/ml		97
19) Dibenzothiopene	10.891	184	146072	50.40	ng/ml		93
20) Phenanthrene	11.019	178	160556	50.75	ng/ml		100
21) Anthracene	11.071	178	139978	53.48	ng/ml		99
22) Carbazole	11.235	167	113238	60.40	ng/ml		98
23) 1-Methylphenanthrene	11.643	192	121857	54.10	ng/ml		99
24) Fluoranthene	12.260	202	174353	53.61	ng/ml		95
26) Pyrene	12.534	202	179092	47.01	ng/ml		99
28) Benz(a)anthracene	14.609	228	131678	49.12	ng/ml		99
29) Chrysene	14.691	228	141380	50.21	ng/ml		99
31) Benzo(b)fluoranthene	17.174	252	128755	50.70	ng/ml		91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072015.D  
 Acq On : 07 Aug 2020 07:35 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL6  
 Misc : 1x, A20H132@50PPB  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 09:18:54 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

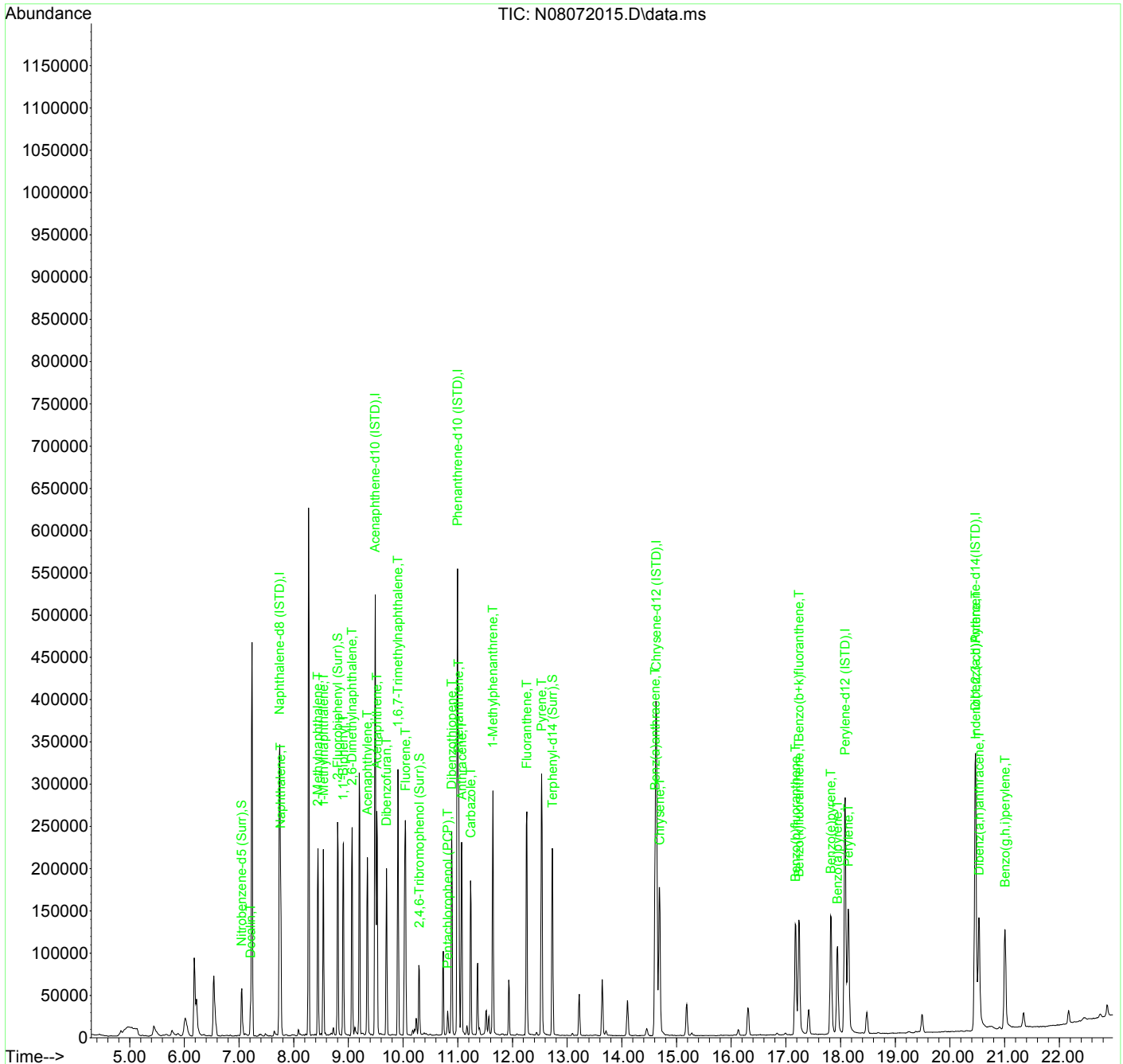
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	124775	51.28	ng/ml	90
33) Benzo(b+k)fluoranthene	17.238	252	266585	103.22	ng/ml	90
34) Benzo(e)pyrene	17.821	252	128664	49.82	ng/ml	96
35) Benzo(a)pyrene	17.943	252	95892	51.54	ng/ml	95
36) Perylene	18.141	252	141055	50.98	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	112418	48.48	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	109524	48.21	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	118269	49.00	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072015.D  
 Acq On : 07 Aug 2020 07:35 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL6  
 Misc : 1x, A20H132@50PPB  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 10 09:18:54 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072016.D  
 Acq On : 07 Aug 2020 08:07 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL7  
 Misc : 1x, A20H133@100PPB  
 ALS Vial : 9 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:19:16 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.737	136	239628	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	160491	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	310167	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.633	240	274150	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	244609	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.467	292	188292	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.044	82	67920	104.57	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	236184	97.44	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.290	330	39630	123.79	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.733	244	271448	104.42	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	14769	88.89	ng/ml		82
4) Naphthalene	7.761	128	240756	99.83	ng/ml		100
5) 2-Methylnaphthalene	8.443	142	187483	120.85	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	184281	110.85	ng/ml		97
7) 1,1'-Biphenyl	8.903	154	237899	111.09	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.066	156	177587	121.80	ng/ml		97
11) Acenaphthylene	9.346	152	287639	103.84	ng/ml		99
12) Acenaphthene	9.521	153	195700	100.63	ng/ml		100
13) Dibenzofuran	9.696	168	260342	104.01	ng/ml		94
14) 1,6,7-Trimethylnaphtha...	9.906	170	184644	106.12	ng/ml		99
15) Fluorene	10.046	166	216422	113.50	ng/ml		98
18) Pentachlorophenol (PCP)	10.815	266	16208	132.05	ng/ml		99
19) Dibenzothiopene	10.891	184	307072	101.84	ng/ml		93
20) Phenanthrene	11.019	178	331692	100.78	ng/ml		99
21) Anthracene	11.071	178	291014	106.87	ng/ml		99
22) Carbazole	11.235	167	221628	113.63	ng/ml		99
23) 1-Methylphenanthrene	11.643	192	251534	107.35	ng/ml		97
24) Fluoranthene	12.260	202	373192	110.30	ng/ml		95
26) Pyrene	12.534	202	385194	100.81	ng/ml		99
28) Benz(a)anthracene	14.609	228	263502	98.01	ng/ml		100
29) Chrysene	14.691	228	284963	100.89	ng/ml		99
31) Benzo(b)fluoranthene	17.180	252	256455	104.71	ng/ml		91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072016.D  
 Acq On : 07 Aug 2020 08:07 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL7  
 Misc : 1x, A20H133@100PPB  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 10 09:19:16 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

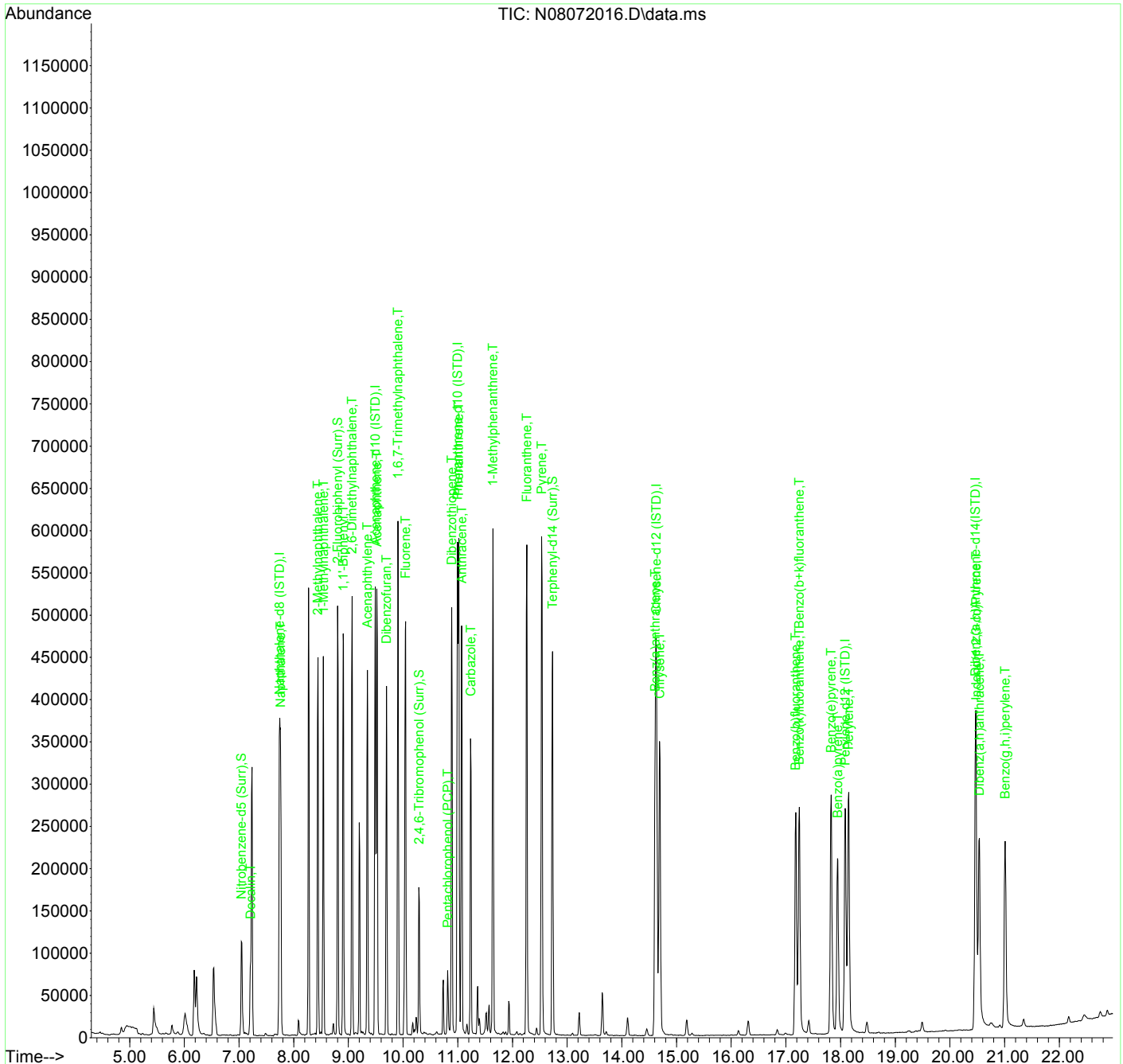
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.244	252	245178	104.47	ng/ml	90
33) Benzo(b+k)fluoranthene	17.244	252	524339	210.51	ng/ml	90
34) Benzo(e)pyrene	17.827	252	260007	104.40	ng/ml	97
35) Benzo(a)pyrene	17.949	252	190371	106.03	ng/ml	95
36) Perylene	18.147	252	269336	100.92	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.479	276	206306	101.07	ng/ml	74
39) Dibenz(a,h)anthracene	20.537	278	209030	104.53	ng/ml	78
40) Benzo(g,h,i)perylene	21.009	276	220629	103.83	ng/ml	76

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072016.D  
 Acq On : 07 Aug 2020 08:07 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL7  
 Misc : 1x, A20H133@100PPB  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 10 09:19:16 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration





Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072017.D  
 Acq On : 07 Aug 2020 08:40 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL8  
 Misc : 1x, A20H134@200PPB  
 ALS Vial : 10 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:19:36 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.737	136	243956	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	162564	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	322378	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.639	240	313061	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.089	264	283565	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthracene-d...	20.473	292	210998	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.044	82	137180	207.46	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	477028	194.30	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.290	330	84601	233.63	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.733	244	597044	201.11	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	28294	167.28	ng/ml		84
4) Naphthalene	7.761	128	479537	195.31	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	380463	240.90	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	372527	220.11	ng/ml		96
7) 1,1'-Biphenyl	8.909	154	482640	221.37	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.066	156	361818	243.75	ng/ml		97
11) Acenaphthylene	9.346	152	586170	208.91	ng/ml		98
12) Acenaphthene	9.521	153	393259	199.64	ng/ml		100
13) Dibenzofuran	9.696	168	533541	210.45	ng/ml		93
14) 1,6,7-Trimethylnaphtha...	9.906	170	367505	208.52	ng/ml		98
15) Fluorene	10.046	166	435598	225.53	ng/ml		98
18) Pentachlorophenol (PCP)	10.815	266	46324	257.73	ng/ml		99
19) Dibenzothiopene	10.891	184	625695	199.64	ng/ml		94
20) Phenanthrene	11.019	178	677193	197.96	ng/ml		99
21) Anthracene	11.071	178	607405	214.60	ng/ml		99
22) Carbazole	11.235	167	471116	232.39	ng/ml		99
23) 1-Methylphenanthrene	11.643	192	518701	212.99	ng/ml		98
24) Fluoranthene	12.261	202	781297	222.17	ng/ml		95
26) Pyrene	12.540	202	799981	183.34	ng/ml		99
28) Benz(a)anthracene	14.615	228	608983	198.35	ng/ml		100
29) Chrysene	14.697	228	636457	197.33	ng/ml		100
31) Benzo(b)fluoranthene	17.186	252	597527	210.45	ng/ml		91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072017.D  
 Acq On : 07 Aug 2020 08:40 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL8  
 Misc : 1x, A20H134@200PPB  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 10 09:19:36 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

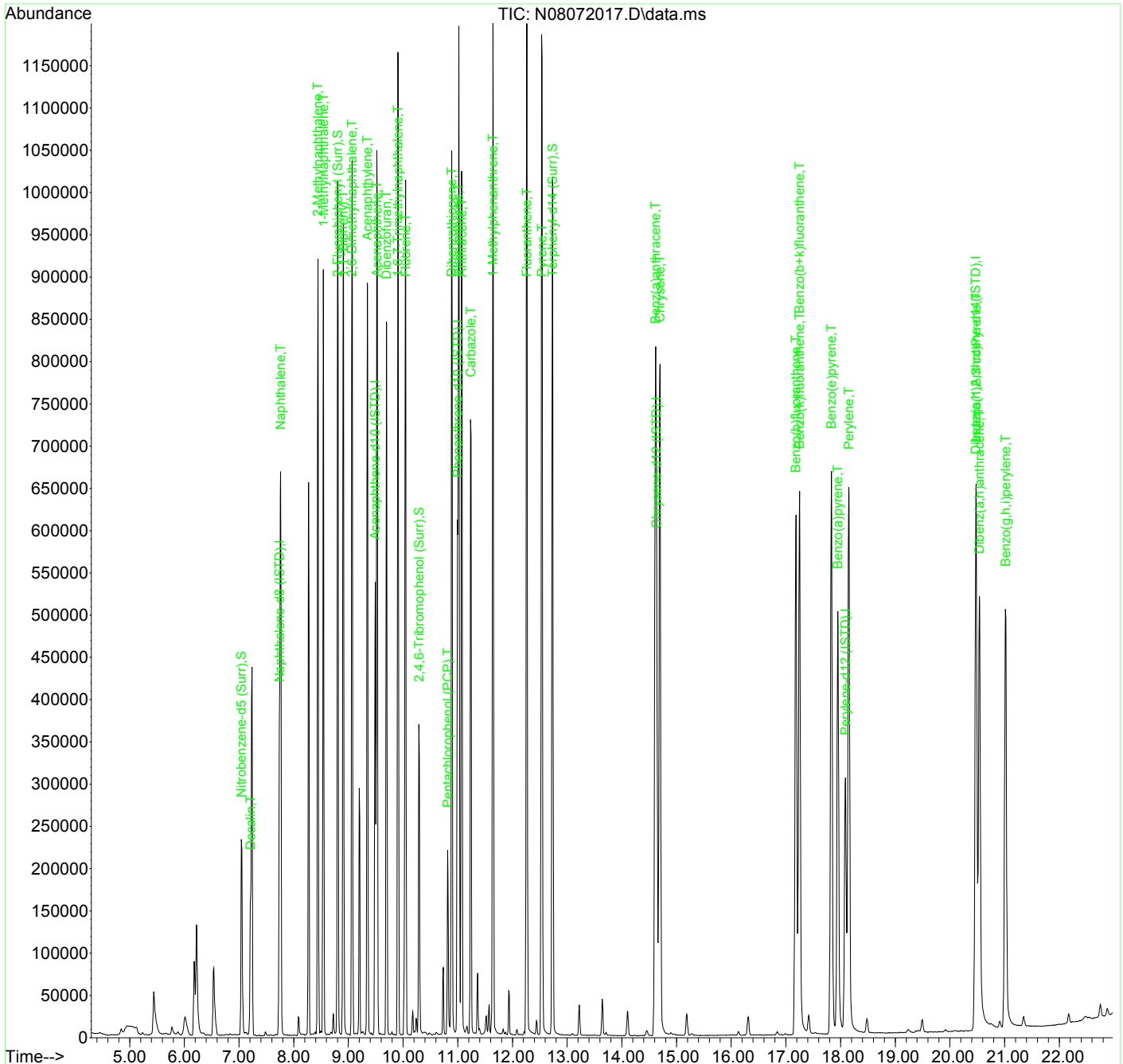
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.250	252	589910	216.84	ng/ml	91
33) Benzo(b+k)fluoranthene	17.250	252	1231095	426.35	ng/ml	91
34) Benzo(e)pyrene	17.833	252	611906	211.94	ng/ml	97
35) Benzo(a)pyrene	17.949	252	456627	219.50	ng/ml	96
36) Perylene	18.153	252	626652	202.56	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.479	276	476115	208.16	ng/ml	75
39) Dibenz(a,h)anthracene	20.537	278	473722	211.39	ng/ml	79
40) Benzo(g,h,i)perylene	21.015	276	511963	215.01	ng/ml	75

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072017.D  
 Acq On : 07 Aug 2020 08:40 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL8  
 Misc : 1x, A20H134@200PPB  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 10 09:19:36 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072018.D  
 Acq On : 07 Aug 2020 09:12 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL9  
 Misc : 1x, A20H135@400PPB  
 ALS Vial : 11 Sample Multiplier: 1

*JK 8/10/20*

Misinjection. Point excluded from calibration.

Quant Time: Aug 10 09:19:55 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

OK MKZ 8/14/2020

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.743	136	17104	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	4382	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	2318	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.633	240	1064	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.077	264	928	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.461	292	858	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	14851	320.34	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	33043	499.31	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.290	330	701	263.51	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.732	244	5581	553.14	ng/ml	0.00	
Target Compounds							Qvalue
3) Decalin	7.219	138	9026	761.12	ng/ml		86
4) Naphthalene	7.761	128	70590	410.08	ng/ml		100
5) 2-Methylnaphthalene	8.443	142	37012	334.25	ng/ml		96
6) 1-Methylnaphthalene	8.542	142	38595	325.26	ng/ml		97
7) 1,1'-Biphenyl	8.909	154	32027	209.52	ng/ml		97
8) 2,6-Dimethylnaphthalene	9.066	156	20523	197.20	ng/ml		98
11) Acenaphthylene	9.346	152	32891	434.88	ng/ml		99
12) Acenaphthene	9.521	153	21612	407.02	ng/ml		98
13) Dibenzofuran	9.696	168	20091	293.99	ng/ml		96
14) 1,6,7-Trimethylnaphtha...	9.906	170	11037	232.32	ng/ml		97
15) Fluorene	10.045	166	11678	224.30	ng/ml		97
18) Pentachlorophenol (PCP)	0.000		0	N.D.			
19) Dibenzothiopene	10.891	184	10590	469.93	ng/ml		93
20) Phenanthrene	11.019	178	9850	400.44	ng/ml		100
21) Anthracene	11.071	178	7326	359.98	ng/ml		100
22) Carbazole	11.240	167	4563	313.04	ng/ml		95
23) 1-Methylphenanthrene	11.643	192	5410	308.95	ng/ml		92
24) Fluoranthene	12.260	202	7012	277.31	ng/ml		95
26) Pyrene	12.534	202	6877	463.73	ng/ml		98
28) Benz(a)anthracene	14.609	228	4463	427.71	ng/ml		100
29) Chrysene	14.685	228	5012	457.22	ng/ml		96
31) Benzo(b)fluoranthene	17.174	252	4589	493.88	ng/ml		92

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072018.D  
 Acq On : 07 Aug 2020 09:12 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL9  
 Misc : 1x, A20H135@400PPB  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:19:55 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

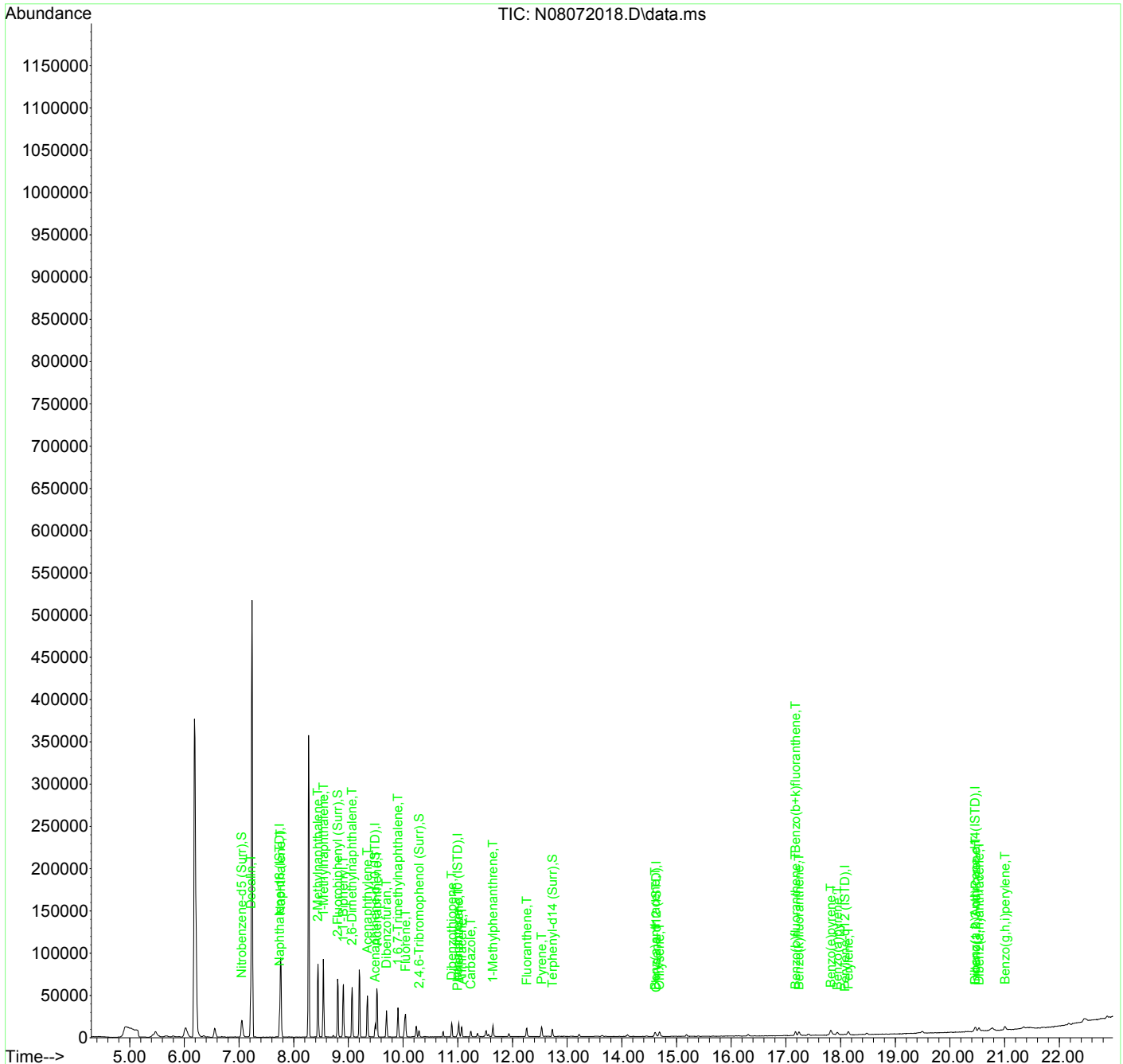
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.238	252	4168	468.14	ng/ml	87
33) Benzo(b+k)fluoranthene	17.174	252	9502	1005.54	ng/ml	90
34) Benzo(e)pyrene	17.821	252	4636	490.66	ng/ml	98
35) Benzo(a)pyrene	17.943	252	2895	425.23	ng/ml	91
36) Perylene	18.141	252	4009	395.97	ng/ml	98
38) Indeno(1,2,3-cd)Pyrene	20.473	276	3761	404.36	ng/ml	73
39) Dibenz(a,h)anthracene	20.531	278	4212	462.22	ng/ml	81
40) Benzo(g,h,i)perylene	21.009	276	4287	442.75	ng/ml	88

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072018.D  
 Acq On : 07 Aug 2020 09:12 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CAL9  
 Misc : 1x, A20H135@400PPB  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 10 09:19:55 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072019.D  
 Acq On : 07 Aug 2020 09:45 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CALA  
 Misc : 1x, A20H136@600PPB  
 ALS Vial : 12 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:20:20 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.737	136	238642	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	167307	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	339435	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.650	240	360560	100.00	ng/ml	0.02	
30) Perylene-d12 (ISTD)	18.101	264	340814	100.00	ng/ml	0.02	
37) Dibenz(a,h)Anthrcene-d...	20.490	292	249015	100.00	ng/ml	0.02	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.044	82	406276	628.10	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.810	172	1394405	551.87	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.296	330	289654	600.83	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.738	244	1953505	571.35	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	89311	539.78	ng/ml		82
4) Naphthalene	7.761	128	1364884	568.29	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	1097533	710.40	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	1061181	640.98	ng/ml		97
7) 1,1'-Biphenyl	8.909	154	1430681	670.81	ng/ml		95
8) 2,6-Dimethylnaphthalene	9.072	156	1054857	726.45	ng/ml		97
11) Acenaphthylene	9.352	152	1737176	601.59	ng/ml		99
12) Acenaphthene	9.527	153	1146621	565.59	ng/ml		100
13) Dibenzofuran	9.702	168	1593927	610.88	ng/ml		94
14) 1,6,7-Trimethylnaphtha...	9.911	170	1064191	586.70	ng/ml		100
15) Fluorene	10.045	166	1277182	642.50	ng/ml		99
18) Pentachlorophenol (PCP)	10.821	266	209662	620.38	ng/ml		100
19) Dibenzothiopene	10.896	184	1885429	571.36	ng/ml		94
20) Phenanthrene	11.025	178	2010051	558.05	ng/ml		100
21) Anthracene	11.077	178	1864915	625.79	ng/ml		99
22) Carbazole	11.240	167	1466993	687.27	ng/ml		99
23) 1-Methylphenanthrene	11.648	192	1544611	602.38	ng/ml		97
24) Fluoranthene	12.266	202	2388152	644.98	ng/ml		94
26) Pyrene	12.546	202	2455254	488.57	ng/ml		99
28) Benz(a)anthracene	14.627	228	2152328	608.68	ng/ml		100
29) Chrysene	14.708	228	2128504	572.99	ng/ml		99
31) Benzo(b)fluoranthene	17.203	252	2203761	645.80	ng/ml		91

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072019.D  
 Acq On : 07 Aug 2020 09:45 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-CALA  
 Misc : 1x, A20H136@600PPB  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 10 09:20:20 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.273	252	2097578	641.50	ng/ml	90
33) Benzo(b+k)fluoranthene	17.273	252	4430224	1276.55	ng/ml	90
34) Benzo(e)pyrene	17.856	252	2168307	624.86	ng/ml	97
35) Benzo(a)pyrene	17.972	252	1663091	665.16	ng/ml	95
36) Perylene	18.176	252	2159235	580.70	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.508	276	1715742	635.60	ng/ml	74
39) Dibenz(a,h)anthracene	20.560	278	1613131	609.95	ng/ml	78
40) Benzo(g,h,i)perylene	21.044	276	1802480	641.41	ng/ml	74

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





Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

*JK 8/10/20*

Quant Time: Aug 10 09:20:59 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.738	136	256281	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	163968	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	309949	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.633	240	277913	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	249997	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.467	292	198562	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	33834	48.71	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	117801	47.57	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.291	330	16307	54.31	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.733	244	134405	51.00	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	6630	37.31	ng/ml		84
4) Naphthalene	7.761	128	127598	49.47	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	96851	58.37	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	95668	53.81	ng/ml		97
7) 1,1'-Biphenyl	8.909	154	117239	51.19	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.066	156	85969	55.13	ng/ml		96
11) Acenaphthylene	9.346	152	143176	50.59	ng/ml		99
12) Acenaphthene	9.521	153	99574	50.12	ng/ml		99
13) Dibenzofuran	9.696	168	124467	48.67	ng/ml		93
14) 1,6,7-Trimethylnaphtha...	9.906	170	87424	49.18	ng/ml		100
15) Fluorene	10.046	166	103605	53.18	ng/ml		98
18) Pentachlorophenol (PCP)	10.815	266	5368	61.41	ng/ml		97
19) Dibenzothiopene	10.891	184	142269	47.21	ng/ml		94
20) Phenanthrene	11.019	178	165110	50.20	ng/ml		100
21) Anthracene	11.072	178	145176	53.35	ng/ml		99
22) Carbazole	11.235	167	112229	57.58	ng/ml		98
23) 1-Methylphenanthrene	11.643	192	121301	51.81	ng/ml		98
24) Fluoranthene	12.261	202	184354	54.53	ng/ml		95
26) Pyrene	12.535	202	190425	49.16	ng/ml		99
28) Benz(a)anthracene	14.610	228	127771	46.88	ng/ml		99
29) Chrysene	14.691	228	140295	49.00	ng/ml		99
31) Benzo(b)fluoranthene	17.180	252	124762	49.84	ng/ml		91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 09:20:59 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration

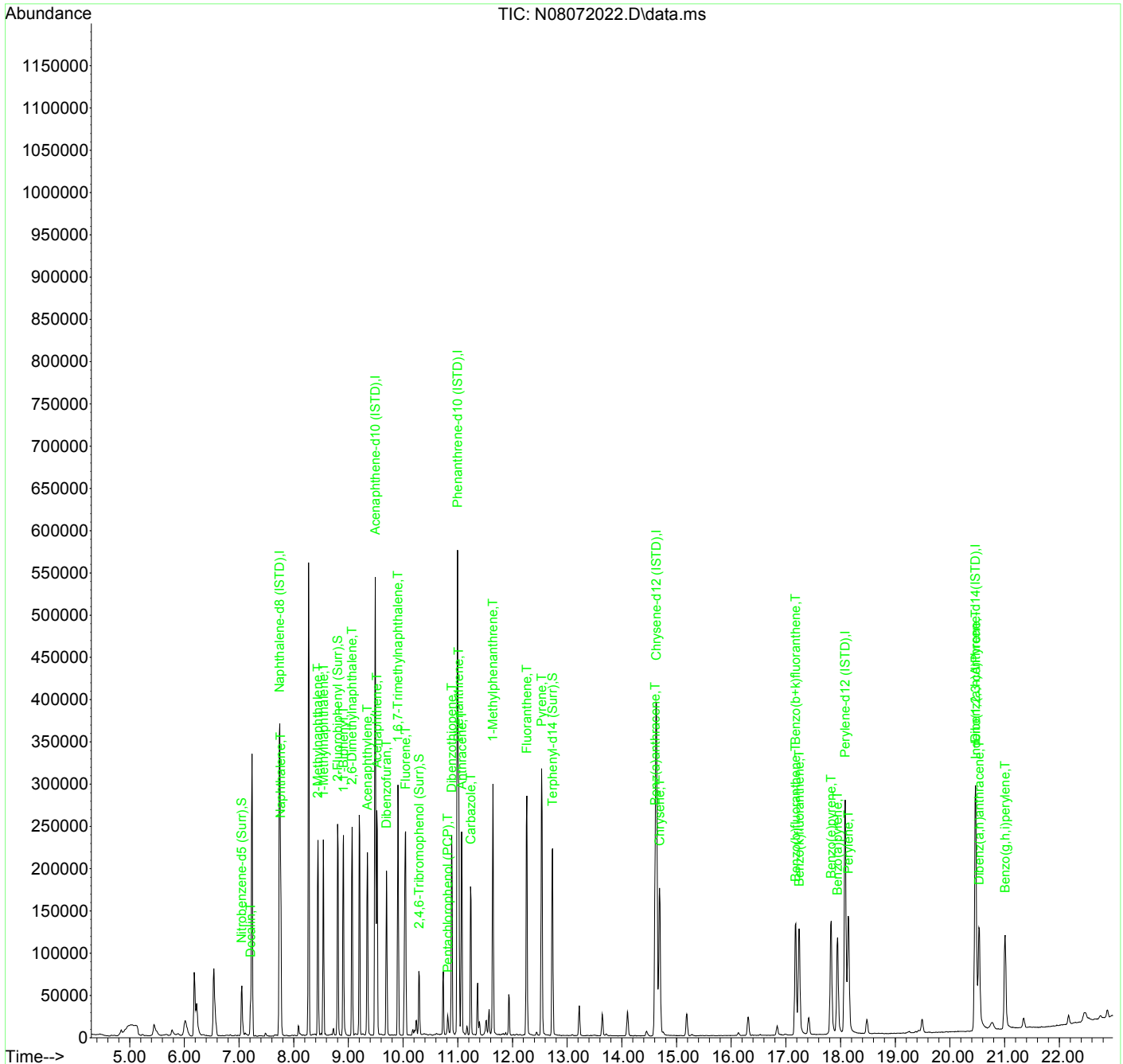
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.244	252	121002	50.45	ng/ml	91
33) Benzo(b+k)fluoranthene	17.180	252	258890	101.70	ng/ml	88
34) Benzo(e)pyrene	17.827	252	121723	47.82	ng/ml	98
35) Benzo(a)pyrene	17.944	252	104007	56.71	ng/ml	96
36) Perylene	18.142	252	132208	48.47	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	99525	46.24	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	103277	48.97	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	111212	49.63	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 09:20:59 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:15:49 2020  
 Response via : Initial Calibration



Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

*JK 8/10/20*

Final Requant

Quant Time: Aug 10 13:00:22 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) Naphthalene-d8 (ISTD)	7.738	136	256281	100.00	ng/ml	0.00	
9) Acenaphthene-d10 (ISTD)	9.492	162	163968	100.00	ng/ml	0.00	
16) Phenanthrene-d10 (ISTD)	10.996	188	309949	100.00	ng/ml	0.00	
25) Chrysene-d12 (ISTD)	14.633	240	277913	100.00	ng/ml	0.00	
30) Perylene-d12 (ISTD)	18.083	264	249997	100.00	ng/ml	0.00	
37) Dibenz(a,h)Anthrcene-d...	20.467	292	198562	100.00	ng/ml	0.00	
System Monitoring Compounds							
2) Nitrobenzene-d5 (Surr)	7.050	82	33834	47.13	ng/ml	0.00	
10) 2-Fluorobiphenyl (Surr)	8.804	172	117801	50.25	ng/ml	0.00	
17) 2,4,6-Tribromophenol (...)	10.291	330	16307	43.38	ng/ml	0.00	
27) Terphenyl-d14 (Surr)	12.733	244	134405	50.30	ng/ml	0.00	
Target Compounds							
							Qvalue
3) Decalin	7.213	138	6630	43.58	ng/ml		84
4) Naphthalene	7.761	128	127598	48.28	ng/ml		99
5) 2-Methylnaphthalene	8.443	142	96851	50.68	ng/ml		97
6) 1-Methylnaphthalene	8.542	142	95668	50.03	ng/ml		97
7) 1,1'-Biphenyl	8.909	154	117239	48.21	ng/ml		96
8) 2,6-Dimethylnaphthalene	9.066	156	85969	48.24	ng/ml		96
11) Acenaphthylene	9.346	152	143176	52.10	ng/ml		99
12) Acenaphthene	9.521	153	99574	49.58	ng/ml		99
13) Dibenzofuran	9.696	168	124467	49.30	ng/ml		93
14) 1,6,7-Trimethylnaphtha...	9.906	170	87424	48.01	ng/ml		100
15) Fluorene	10.046	166	103605	50.68	ng/ml		98
18) Pentachlorophenol (PCP)	10.815	266	5368	42.04	ng/ml		97
19) Dibenzothiopene	10.891	184	142269	47.27	ng/ml		94
20) Phenanthrene	11.019	178	165110	49.22	ng/ml		100
21) Anthracene	11.072	178	145176	52.84	ng/ml		99
22) Carbazole	11.235	167	112229	54.95	ng/ml		98
23) 1-Methylphenanthrene	11.643	192	121301	50.29	ng/ml		98
24) Fluoranthene	12.261	202	184354	52.98	ng/ml		95
26) Pyrene	12.535	202	190425	51.17	ng/ml		99
28) Benz(a)anthracene	14.610	228	127771	45.99	ng/ml		99
29) Chrysene	14.691	228	140295	48.87	ng/ml		99
31) Benzo(b)fluoranthene	17.180	252	124762	49.22	ng/ml		91

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 13:00:22 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

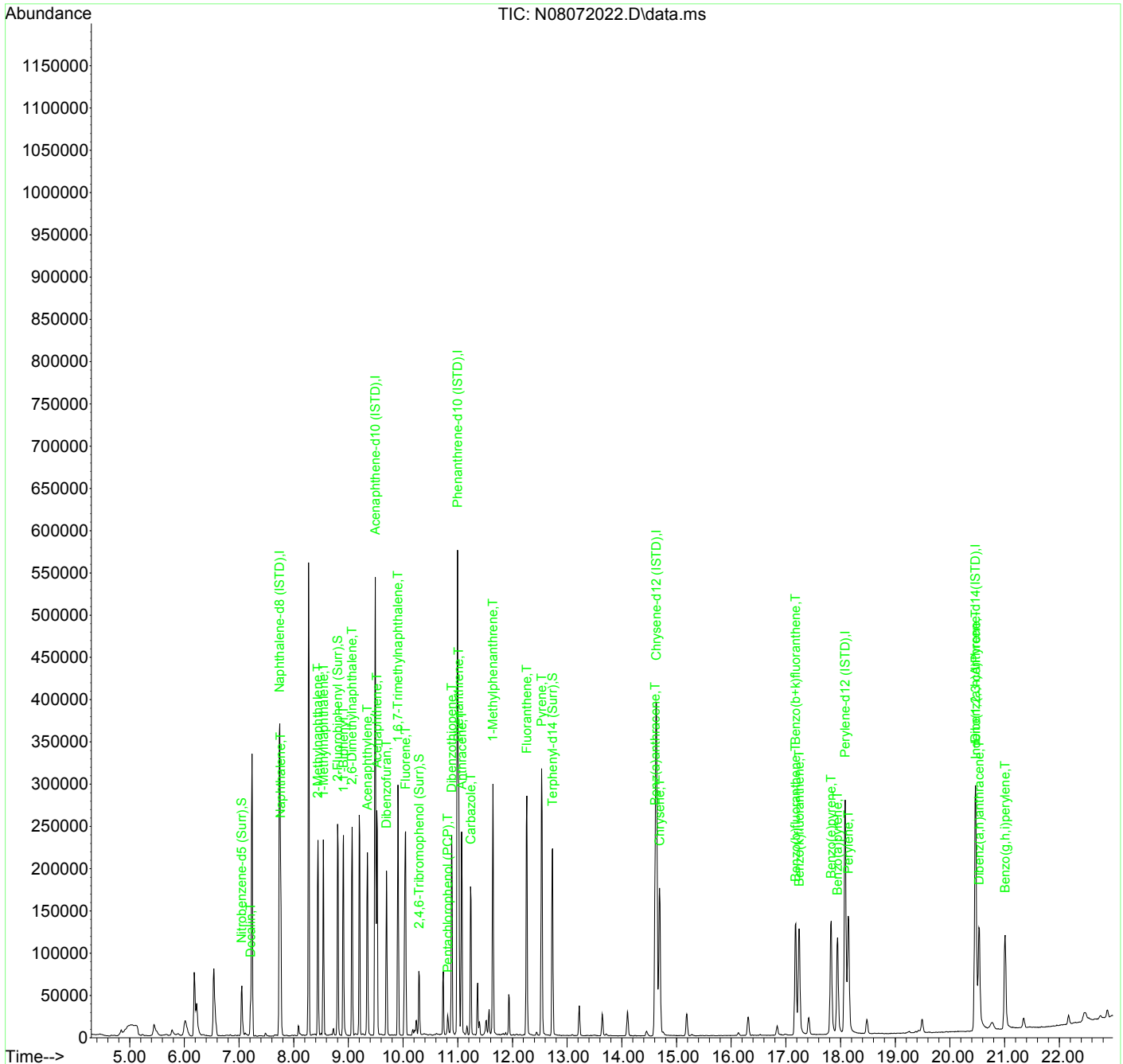
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Benzo(k)fluoranthene	17.244	252	121002	50.60	ng/ml	91
33) Benzo(b+k)fluoranthene	17.180	252	258890	100.35	ng/ml	88
34) Benzo(e)pyrene	17.827	252	121723	48.28	ng/ml	98
35) Benzo(a)pyrene	17.944	252	104007	56.59	ng/ml	96
36) Perylene	18.142	252	132208	48.45	ng/ml	100
38) Indeno(1,2,3-cd)Pyrene	20.473	276	99525	46.57	ng/ml	75
39) Dibenz(a,h)anthracene	20.531	278	103277	49.15	ng/ml	79
40) Benzo(g,h,i)perylene	21.009	276	111212	51.18	ng/ml	74

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

Quantitation Report (Not Reviewed)

Data Path : M:\data\2020-08\0H07053\  
 Data File : N08072022.D  
 Acq On : 07 Aug 2020 11:23 pm  
 Operator : JK/ AMS/ DTH  
 Sample : 0H07053-ICV1  
 Misc : 1x, A20H138@50PPB  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 10 13:00:22 2020  
 Quant Method : M:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



**Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection  
Benchsheet & Analysis Sequence Data (Including Calibration)**

Batch 0100373

Sequence 0J14043 (A0J0344-01RE1,02RE1,03RE2,04,05,06RE1,07RE2)





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

OCT 19 2020

BATCH #: 0100373 (Soil)

Prep Method: ASTM D7511-12mod (S)

#	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
	0100373-BLK1	QC	10/12/20 09:47	2.5	50									
	0100373-BS1	QC	10/12/20 09:47	2.5	50	A20H257		100						
	0100373-BS2	QC	10/12/20 09:47	2.5	50	A20J028		1000						
	A0J0281-01	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5743	50					USMPDI-027SG-201007				
	A0J0281-01RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5743	50					USMPDI-027SG-201007	Added 10/13/2020 by wvo			
	A0J0281-02	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5046	50					USMPDI-034SG-201007				
	A0J0281-02RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5046	50					USMPDI-034SG-201007	Added 10/13/2020 by wvo			
	A0J0281-03	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.525	50					USMPDI-040SG-201007	MS/MSD this sample			
	0100373-MS1	QC	10/12/20 09:47	2.5282	50	A20H320	A0J0281-03	200						
	0100373-MSD1	QC	10/12/20 09:47	2.5188	50	A20H320	A0J0281-03	200						
	A0J0281-03RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.525	50					USMPDI-040SG-201007	MS/MSD this sample			
	0100373-MS3	QC	10/12/20 09:47	2.5282	50	A20H320	A0J0281-03RE1	200						
	0100373-MSD3	QC	10/12/20 09:47	2.5188	50	A20H320	A0J0281-03RE1	200						
	A0J0281-04	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5623	50					USMPDI-046SG-201007				
	A0J0281-04RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5623	50					USMPDI-046SG-201007	Added 10/13/2020 by wvo			
	A0J0281-05	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5078	50					USMPDI-048SG-201007				
	A0J0281-05RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5078	50					USMPDI-048SG-201007	Added 10/13/2020 by wvo			
	A0J0281-06	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5404	50					USMPDI-1048S G-201007				
	A0J0281-06RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5404	50					USMPDI-1048S G-201007	Added 10/13/2020 by wvo			
	A0J0343-01	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5628	50					USMPDI-026SG-201008				
	0100373-MS2	QC	10/12/20 09:47	2.5292	50	A20H320	A0J0343-01	200						
	0100373-MSD2	QC	10/12/20 09:47	2.505	50	A20H320	A0J0343-01	200						

WVO  
Prepared By: \_\_\_\_\_ Date: 10/15/20

CLM  
Reviewed By: \_\_\_\_\_ Date: 10/15/2020

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

**BATCH #: 0100373 (Soil)**

**Prep Method: ASTM D7511-12mod (S)**

#	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
	A0J0343-01RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5628	50					USMPDI-026SG-201008	Added 10/13/2020 by wvo			
	0100373-MS4	QC	10/12/20 09:47	2.5292	50	A20H320	A0J0343-01RE1	200	✓					
	0100373-MSD4	QC	10/12/20 09:47	2.505	50	A20H320	A0J0343-01RE1	200	✓					
	A0J0343-02	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5003	50					USMPDI-033SG-201008				
	A0J0343-02RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5003	50					USMPDI-033SG-201008	Added 10/15/2020 by wvo			
	A0J0343-03	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5413	50					USMPDI-038SG-201008				
	A0J0343-03RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5413	50					USMPDI-038SG-201008	Added 10/13/2020 by wvo			
	A0J0343-04	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5483	50					USMPDI-044SG-201008				
	A0J0343-04RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5483	50					USMPDI-044SG-201008	Added 10/13/2020 by wvo			
	A0J0343-05	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5262	50					USMPDI-049SG-201008				
	A0J0343-05RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5262	50					USMPDI-049SG-201008	Added 10/13/2020 by wvo			
	A0J0343-06	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5573	50					USMPDI-052SG-201008				
	A0J0343-06RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5573	50					USMPDI-052SG-201008	Added 10/13/2020 by wvo			
	A0J0343-07	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5008	50					USMPDI-053SG-201008				
	A0J0343-07RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5008	50					USMPDI-053SG-201008	Added 10/15/2020 by wvo			
	A0J0343-07RE2	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5008	50					USMPDI-053SG-201008	Added 10/15/2020 by wvo			
	A0J0344-01	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.551	50					USMPDI-041SG-201009				
	A0J0344-01RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.551	50					USMPDI-041SG-201009	Added 10/15/2020 by wvo			
	A0J0344-02	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5113	50					USMPDI-042SG-201009				

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

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

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

**BATCH #: 0100373 (Soil)**

Prep Method: ASTM D7511-12mod (S)

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	5	>11
	A0J0344-02RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5113	50					USMPDI-042SG-201009	Added 10/15/2020 by wvo			
	A0J0344-03	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5421	50					USMPDI-043SG-201009				
	A0J0344-03RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5421	50					USMPDI-043SG-201009	Added 10/15/2020 by wvo			
	A0J0344-03RE2	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5421	50					USMPDI-043SG-201009	Added 10/15/2020 by wvo			
	A0J0344-04	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5156	50					USMPDI-047SG-201009				
	A0J0344-05	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5015	50					USMPDI-050SG-201009				
	A0J0344-06	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5054	50					USMPDI-051SG-201009				
	A0J0344-06RE1	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5054	50					USMPDI-051SG-201009	Added 10/15/2020 by wvo			
	A0J0344-07	B Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5765	50					USMPDI-054SG-201009				
	A0J0344-07RE1	B Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5765	50					USMPDI-054SG-201009	Added 10/15/2020 by wvo			
	A0J0344-07RE2	B Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5765	50					USMPDI-054SG-201009	Added 10/15/2020 by wvo			

**Standards/Reagents**

**Reagent(s)**

Std ID	Exp. Date	Description
A19L373	12/31/29	Syringe Filters, 0.45 um PP
A20G015	12/28/20	0.1 N NaOH
A20H410	08/24/29	Air pillow for OIA Total CN ✓
A20I340	03/23/21	Total CN-TAI working
A20I341	03/23/21	Total CN-TA2/SAR-working

**Analyte Spike(s)**

Std ID	Exp. Date	Description
A20H257	12/05/20	Cyanide working -2- TOTAL ✓
A20H320	01/31/21	Cyanide working -1-
A20J028	03/31/21	Total CN Challenge Mtx. Stock Solution

**Surrogate(s)**

Std ID	Exp. Date	Description

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

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



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

OCT 19 2020

BATCH #: 0100373 (Soil)

Prep Method: ASTM D7511-12mod (S)

#	Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH			
												<2	7-8	>11	
	0100373-BLK1	QC	10/12/20 09:47	2.5	50										
	0100373-BS1	QC	10/12/20 09:47	2.5	50	A20H257		100							
	A0J0281-01	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>743</b>	50					USMPDI-027SG-201007					
	A0J0281-02	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>046</b>	50					USMPDI-034SG-201007					
	A0J0281-03	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>250</b>	50					USMPDI-040SG-201007	MS/MSD this sample				
	0100373-MS1	QC	10/12/20 09:47	2.5 <b>282</b>	50	A20H320	A0J0281-03	200							
	0100373-MSD1	QC	10/12/20 09:47	2.5 <b>188</b>	50	A20H320	A0J0281-03	200							
	A0J0281-04	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>623</b>	50					USMPDI-046SG-201007					
	A0J0281-05	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>078</b>	50					USMPDI-048SG-201007					
	A0J0281-06	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>404</b>	50					USMPDI-1048S G-201007					
	A0J0343-01	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>628</b>	50					USMPDI-026SG-201008					
	0100373-MS2	QC	10/12/20 09:47	2.5 <b>292</b>	50	A20H320	A0J0343-01	200							
	0100373-MSD2	QC	10/12/20 09:47	2.5 <b>050</b>	50	A20H320	A0J0343-01	200							
	A0J0343-02	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>003</b>	50					USMPDI-033SG-201008					
	A0J0343-03	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>050</b> <b>413</b>	50 <b>mw</b>	10/12/20				USMPDI-038SG-201008					
	A0J0343-04	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>483</b>	50					USMPDI-044SG-201008					
	A0J0343-05	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>262</b>	50					USMPDI-049SG-201008					
	A0J0343-06	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>573</b>	50					USMPDI-052SG-201008					
	A0J0343-07	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>008</b>	50					USMPDI-053SG-201008					
	A0J0344-01	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>510</b>	50					USMPDI-041SG-201009					
	A0J0344-02	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 <b>113</b>	50					USMPDI-042SG-201009					

*mw*

*10/12/20*

*mw 10/13/2020*

Prepared By:

Date

Reviewed By:

Date

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

**BATCH #: 0100373 (Soil)**

Prep Method: ASTM D7511-12mod (S)

#	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
	A0J0344-03	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 421-	50					USMPDI-043SG-201009				
	A0J0344-04	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 150-	50					USMPDI-047SG-201009				
	A0J0344-05	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 015-	50					USMPDI-050SG-201009				
	A0J0344-06	A Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 054-	50					USMPDI-051SG-201009				
	A0J0344-07	B Cyanide, Total (ASTM D7511, OIA)	10/12/20 09:47	2.5 765-	50					USMPDI-054SG-201009				

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A19L373	12/31/29	Syringe Filters, 0.45 um PP	A20H257	12/05/20	Cyanide working -2- TOTAL ✓			
A20G015	12/28/20	0.1 N NaOH	A20H320	01/31/21	Cyanide working -1- ✓			
A20H410	08/24/29	Air pillow for OIA Total CN ✓						
A20I340	03/23/21	Total CN-TA1 working						
A20I341	03/23/21	Total CN-TA2/SAR-working						

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

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



ELEMENT SEQUENCE LOG

Apex Laboratories

OCT 19 2020

Sequence: OJ14043  
Date: 10/14/20 11:03

Instrument: OIA FS3000-2  
Calibration: A0J1302

*A0J1504 WVO 10/15/20*

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	OJ14043-CAL1	Soil	QC	QC				
2	OJ14043-CAL2	Soil	QC	QC				A20H332-
3	OJ14043-CAL3	Soil	QC	QC				A20H328 -
4	OJ14043-CAL4	Soil	QC	QC				A20H327 -
5	OJ14043-CAL5	Soil	QC	QC				A20H325 ✓
6	OJ14043-CAL6	Soil	QC	QC				A20H323 -
7	OJ14043-CAL7	Soil	QC	QC				A20H321 ✓
8	OJ14043-ICV1	Soil	QC	QC				A20I422 ✓
9	OJ14043-ICB1	Soil	QC	QC				
10	0100373-BS2	Soil	QC	QC		0100373		
11	A0J0281-01RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
12	A0J0281-02RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
13	A0J0281-03RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
14	0100373-MS3	Soil	QC	QC		0100373		
15	0100373-MSD3	Soil	QC	QC		0100373		
16	A0J0281-04RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
17	A0J0343-01RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
18	0100373-MS4	Soil	QC	QC		0100373		
19	0100373-MSD4	Soil	QC	QC		0100373		
20	OJ14043-CCV1	Soil	QC	QC				A20H323 -
21	OJ14043-CCB1	Soil	QC	QC				
22	A0J0344-02RE2	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
23	A0J0343-03RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
24	A0J0343-04RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
25	A0J0281-05RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
26	A0J0281-06RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
27	A0J0343-05RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
28	A0J0343-06RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
29	OJ14043-CCV2	Soil	QC	QC				A20H323 ✓
30	OJ14043-CCB2	Soil	QC	QC				
31	A0J0343-07	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
32	A0J0344-01	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
33	A0J0344-02	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
34	A0J0344-03	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
35	A0J0344-04	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
36	A0J0344-05	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
37	A0J0344-06	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
38	A0J0344-07	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
39	OJ14043-CCV3	Soil	QC	QC				A20H323 ✓
40	OJ14043-CCB3	Soil	QC	QC				
41	A0J0343-07RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
42	A0J0344-01RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
43	A0J0344-02RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
44	A0J0344-03RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
45	A0J0344-06RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
46	A0J0344-07RE1	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
47	A0J0343-07RE2	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
48	OJ14043-CCV4	Soil	QC	QC				A20H323 ✓
49	OJ14043-CCB4	Soil	QC	QC				
50	A0J0344-03RE2	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		
51	A0J0344-07RE2	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/23/20	0100373		

Sequence: 0J14043

Instrument: OIA FS3000-2

Date: 10/14/20 11:03

Calibration: A0J1302

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	0J14043-CCV5	Soil	QC	QC				
53	0J14043-CCB5	Soil	QC	QC				A20H323 ✓

Data Entered By/Date: WV O 10/15/20

Comments:

Data Reviewed By/Date: CLM 10/15/2020

Run Results Report

Apex Laboratories OIA FS3000-2

Operator Name wvo  
 Operator ID wvo  
 Platform FS III/IV/3100  
 Software Rev Code 234  
 Data system ID 57  
 Result path C:\FLOW\_4\OJ14043.RST  
 Sample table path C:\FLOW\_4\totcn50.tbl  
 Method path C:\FLOW\_4\totcn50.mth  
 Date acquired 14-Oct-20  
 Time acquired 19:17

*Correction made & saved Seq. as OJ14043A*

*WVO 10/15/20*

----- TOTAL CN 50ppb -----						
Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
Sync 25 ppb	1212615	27.007				
Sync 25 ppb	1200592	26.752				
Sync 25 ppb	1212506	27.005				
(Statistics)				1208571	26.921	.572%
Carryover	11579	1.177				
Read Baseline	-12990	0.642	BL			
Cal 0.0 ppb	-39473	0.065				
Cal 1.0 ppb	5383	1.042				
Cal 2.0 ppb	38191	1.756				
Cal 5.0 ppb	162619	4.460				
Cal 10.0 ppb	387264	9.325				
Cal 25.0 ppb	1143603	25.540				
Cal 50.0 ppb	2302051	49.889				
Blank	17197	1.299				
Read Baseline	-2918	0.861	BL			
OJ14043-ICV1	1108247	24.788				
OJ14043-ICB1	-23654	0.409				
Blank	-23767	0.407				
Read Baseline	-5488	0.805	BL			
O100373-BS2	106513	3.241				
Read Baseline	-9592	0.716	BL			
A0J0281-01RE1@2	748086	17.092				
A0J0281-02RE1@2	846091	19.191				
Read Baseline	-11832	0.667	BL			
A0J0281-03RE1@5	685198	15.742				
O100373-MS3@5	787868	17.945				
O100373-MSD3@5	1534110	33.814				

*OK Ann  
10/15/2020*



Result path C:\FLOW\_4\0J14043.RST  
 Sample table path C:\FLOW\_4\totcn50.tbl  
 Method path C:\FLOW\_4\totcn50.mth  
 Date acquired 14-Oct-20  
 Time acquired 19:17

----- TOTAL CN 50ppb -----

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
Read Baseline	-6976	0.773	BL			
A0J0281-04RE1@5 ✓	1845366	40.360 -				
Read Baseline	-23057	0.422	BL			
A0J0343-01RE1@2 -	1724902	37.832 -				
0100373-MS4@2 -	1264612	28.111 ✓				
0100373-MSD4@2 ✓	1285521	28.555 ✓				
Read Baseline	-4586	0.825	BL			
0J14043-CCV1	1203202	26.807 -				
0J14043-CCB1	-5844	0.797 -				
Read Baseline	557	0.937	BL			
A0J0343-02RE1@2 -	1195746	26.649 -				
A0J0343-03RE1@2 ✓	1301586	28.895 -				
A0J0343-04RE1@10 ✓	1119528	25.028 -				
Read Baseline	10753	1.159	BL			
A0J0281-05RE1@50	768011	17.519 -				
Read Baseline	4494	1.022	BL			
A0J0281-06RE1@50 -	795259	18.103 -				
Read Baseline	-17095	0.552	BL			
A0J0343-05RE1@50 -	915802	20.683 -				
Read Baseline	-19334	0.503	BL			
A0J0343-06RE1@100 -	978331	22.018 -				
Read Baseline	-2561	0.869	BL OL			
Read Baseline	-26327	0.351	BL			
Read Baseline	-32431	0.218	BL			
0J14043-CCV2	1217619	27.113 -				
0J14043-CCB2	14163	1.233 -				
Read Baseline	-6694	0.779	BL			
Read Baseline	-17929	0.534	BL			
A0J0343-07@10 -	52190812	538.632 -	HI <i>NR over range</i>			
A0J0344-01@10 -	2100391	45.692 -	FL <i>NR possible carry over</i>			
A0J0344-02@10 -	481426	11.357 -	FL <i>NR over diluted</i>			
Read Baseline	-9329	0.721	BL			
A0J0344-03@10 -	245840	6.265 -	<i>NR over diluted</i>			
A0J0344-04@10 -	1288161	28.611 -				
Read Baseline	-21524	0.456	BL			
A0J0344-05@10 -	1378707	30.529 -				
A0J0344-06@10 ✓	2318190	50.224 -				

*WV 10/15/20*

Result path C:\FLOW\_4\OJ14043.RST  
 Sample table path C:\FLOW\_4\totcn50.tbl  
 Method path C:\FLOW\_4\totcn50.mth  
 Date acquired 14-Oct-20  
 Time acquired 19:17

----- TOTAL CN 50ppb -----

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
A0J0344-07@10 -	23846998	395.199 -	HI	→ NR. over range - MI baseline due to extreme overrange sample.		
Read Baseline	60782	2.247	BL UM			
OJ14043-CCV3	1228444	27.343 -	FL			
OJ14043-CCB3	-1274	0.897 -				
Read Baseline	-8105	0.748	BL			
A0J0343-07RE1@200 -	3751600	79.525 -	HI	- NR. over range		
A0J0344-01RE1@2 -	1061236	23.786 -	FL			
Read Baseline	10865	1.161	BL			
A0J0344-02RE1@5 -	576090	13.396 -		<del>NR. over diluted</del> WVO 10/15/20		
A0J0344-03RE1	2796113	60.093 -	HI	- NR. over range.		
Read Baseline	37206	1.734	BL			
A0J0344-06RE1@20 -	1169906	26.099 -	FL			
Read Baseline	3446	1.000	BL			
A0J0344-07RE1@100 -	2631475	56.705 -	HI	- NR. over range		
Read Baseline	61195	2.256	BL			
A0J0343-07RE1@500	906352	20.481 -	FL			
OJ14043-CCV4	1179524	26.304 -				
OJ14043-CCB4	13592	1.221 -				
Read Baseline	12815	1.204	BL			
A0J0344-04RE2@2 -	1353980	30.006 -				
Read Baseline	-13053	0.640	BL			
A0J0344-07RE2@200 -	1365731	30.254 -				
Read Baseline	28757	1.551	BL			
OJ14043-CCV5	1141624	25.498 -				
OJ14043-CCB5	1656	0.961 -				
Read Baseline	-13694	0.626	BL			

WVO  
10/15/20

WVO  
10/15/20

03 WVO  
10/15/20

## Run Results Report

Apex Laboratories OIA FS3000-2

Operator Name wvo  
Operator ID wvo  
Platform FS III/IV/3100  
Software Rev Code 234  
Data system ID 57

Result path C:\FLOW\_4\0J14043.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 14-Oct-20  
Time acquired 19:17

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Date	Time	Cup	Name
14-Oct-20	15:42	106	Sync 25 ppb
14-Oct-20	15:44	106	Sync 25 ppb
14-Oct-20	15:46	106	Sync 25 ppb
			(Statistics)
14-Oct-20	15:48	0	Carryover
14-Oct-20	15:50	0	Read Baseline
14-Oct-20	15:52	101	Cal 0.0 ppb
14-Oct-20	15:54	102	Cal 1.0 ppb
14-Oct-20	15:56	103	Cal 2.0 ppb
14-Oct-20	15:58	104	Cal 5.0 ppb
14-Oct-20	16:00	105	Cal 10.0 ppb
14-Oct-20	16:02	106	Cal 25.0 ppb
14-Oct-20	16:04	107	Cal 50.0 ppb
14-Oct-20	16:06	0	Blank
14-Oct-20	16:08	0	Read Baseline
14-Oct-20	16:10	108	0J14043-ICV1
14-Oct-20	16:12	0	0J14043-ICB1
14-Oct-20	16:14	0	Blank
14-Oct-20	16:16	0	Read Baseline
14-Oct-20	16:18	109	0100373-BS2
14-Oct-20	16:20	0	Read Baseline
14-Oct-20	16:22	110	A0J0281-01RE1@2
14-Oct-20	16:24	111	A0J0281-02RE1@2
14-Oct-20	16:26	0	Read Baseline
14-Oct-20	16:28	112	A0J0281-03RE1@5
14-Oct-20	16:30	113	0100373-MS3@5
14-Oct-20	16:32	114	0100373-MSD3@5

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Result path C:\FLOW\_4\0J14043.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 14-Oct-20  
Time acquired 19:17

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Date	Time	Cup	Name
14-Oct-20	16:34	0	Read Baseline
14-Oct-20	16:36	115	A0J0281-04RE1@5
14-Oct-20	16:38	0	Read Baseline
14-Oct-20	16:40	116	A0J0343-01RE1@2
14-Oct-20	16:42	117	0100373-MS4@2
14-Oct-20	16:44	118	0100373-MSD4@2
14-Oct-20	16:46	0	Read Baseline
14-Oct-20	16:48	106	0J14043-CCV1
14-Oct-20	16:50	0	0J14043-CCB1
14-Oct-20	16:52	0	Read Baseline
14-Oct-20	16:54	119	A0J0343-02RE1@2
14-Oct-20	16:56	120	A0J0343-03RE1@2
14-Oct-20	16:58	121	A0J0343-04RE1@10
14-Oct-20	17:00	0	Read Baseline
14-Oct-20	17:02	122	A0J0281-05RE1@50
14-Oct-20	17:04	0	Read Baseline
14-Oct-20	17:06	123	A0J0281-06RE1@50
14-Oct-20	17:08	0	Read Baseline
14-Oct-20	17:10	124	A0J0343-05RE1@50
14-Oct-20	17:12	0	Read Baseline
14-Oct-20	17:14	125	A0J0343-06RE1@100
14-Oct-20	17:16	0	Read Baseline
14-Oct-20	17:18	0	Read Baseline
14-Oct-20	17:20	0	Read Baseline
14-Oct-20	17:22	106	0J14043-CCV2
14-Oct-20	17:24	0	0J14043-CCB2
14-Oct-20	17:26	0	Read Baseline
14-Oct-20	17:28	0	Read Baseline
14-Oct-20	17:30	126	A0J0343-07@10
14-Oct-20	17:32	127	A0J0344-01@10
14-Oct-20	17:34	128	A0J0344-02@10
14-Oct-20	17:36	0	Read Baseline
14-Oct-20	17:38	129	A0J0344-03@10
14-Oct-20	17:40	130	A0J0344-04@10
14-Oct-20	17:42	0	Read Baseline
14-Oct-20	17:44	131	A0J0344-05@10
14-Oct-20	17:46	132	A0J0344-06@10

Result path C:\FLOW\_4\0J14043.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 14-Oct-20  
Time acquired 19:17

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Date	Time	Cup	Name
14-Oct-20	17:48	133	A0J0344-07@10
14-Oct-20	17:50	0	Read Baseline
14-Oct-20	17:52	106	0J14043-CCV3
14-Oct-20	17:54	0	0J14043-CCB3
14-Oct-20	17:56	0	Read Baseline
14-Oct-20	18:11	126	A0J0343-07RE1@200
14-Oct-20	18:13	127	A0J0344-01RE1@2
14-Oct-20	18:15	0	Read Baseline
14-Oct-20	18:17	128	A0J0344-02RE1@5
14-Oct-20	18:19	129	A0J0344-03RE1
14-Oct-20	18:21	0	Read Baseline
14-Oct-20	18:23	132	A0J0344-06RE1@20
14-Oct-20	18:25	0	Read Baseline
14-Oct-20	18:27	133	A0J0344-07RE1@100
14-Oct-20	18:29	0	Read Baseline
14-Oct-20	18:31	126	A0J0343-07RE1@500
14-Oct-20	18:33	106	0J14043-CCV4
14-Oct-20	18:35	0	0J14043-CCB4
14-Oct-20	18:49	0	Read Baseline
14-Oct-20	18:51	129	A0J0344-04RE2@2
14-Oct-20	18:53	0	Read Baseline
14-Oct-20	18:55	133	A0J0344-07RE2@200
14-Oct-20	18:57	0	Read Baseline
14-Oct-20	18:59	106	0J14043-CCV5
14-Oct-20	19:01	0	0J14043-CCB5
14-Oct-20	19:03	0	Read Baseline

TOTAL CN 50ppb:Calibration 1: Peak 6-89

File name: C:\FLOW\_4\0J14043.RST

Date: 14-Oct-20

Operator: wvo

* Name	Conc	Area
* Cal 0.0 ppb	0.000000	-39473.035156
* Cal 1.0 ppb	1.000000	5382.879883
* Cal 2.0 ppb	2.000000	38190.750000
* Cal 5.0 ppb	5.000000	162619.468750
* Cal 10.0 ppb	10.000000	387264.437500
* Cal 25.0 ppb	25.000000	1143602.625000
* Cal 50.0 ppb	50.000000	2302050.750000

Calib Coef:

$x = cy + by + a$

a: (intercept) 9.2457e-01

b: 2.1776e-05

c: -2.1983e-13

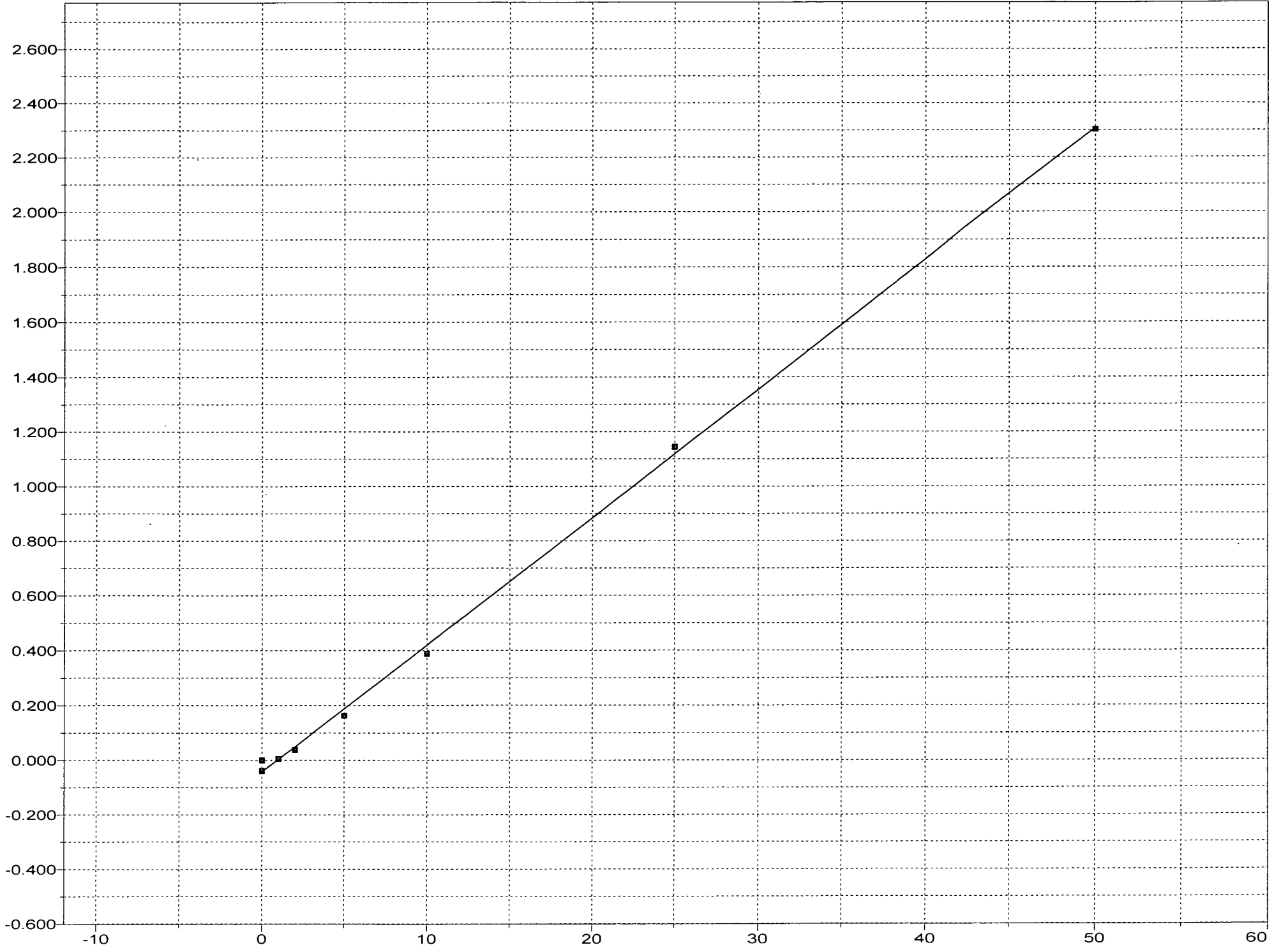
Corr Coef: 0.999546

Carryover: n/a

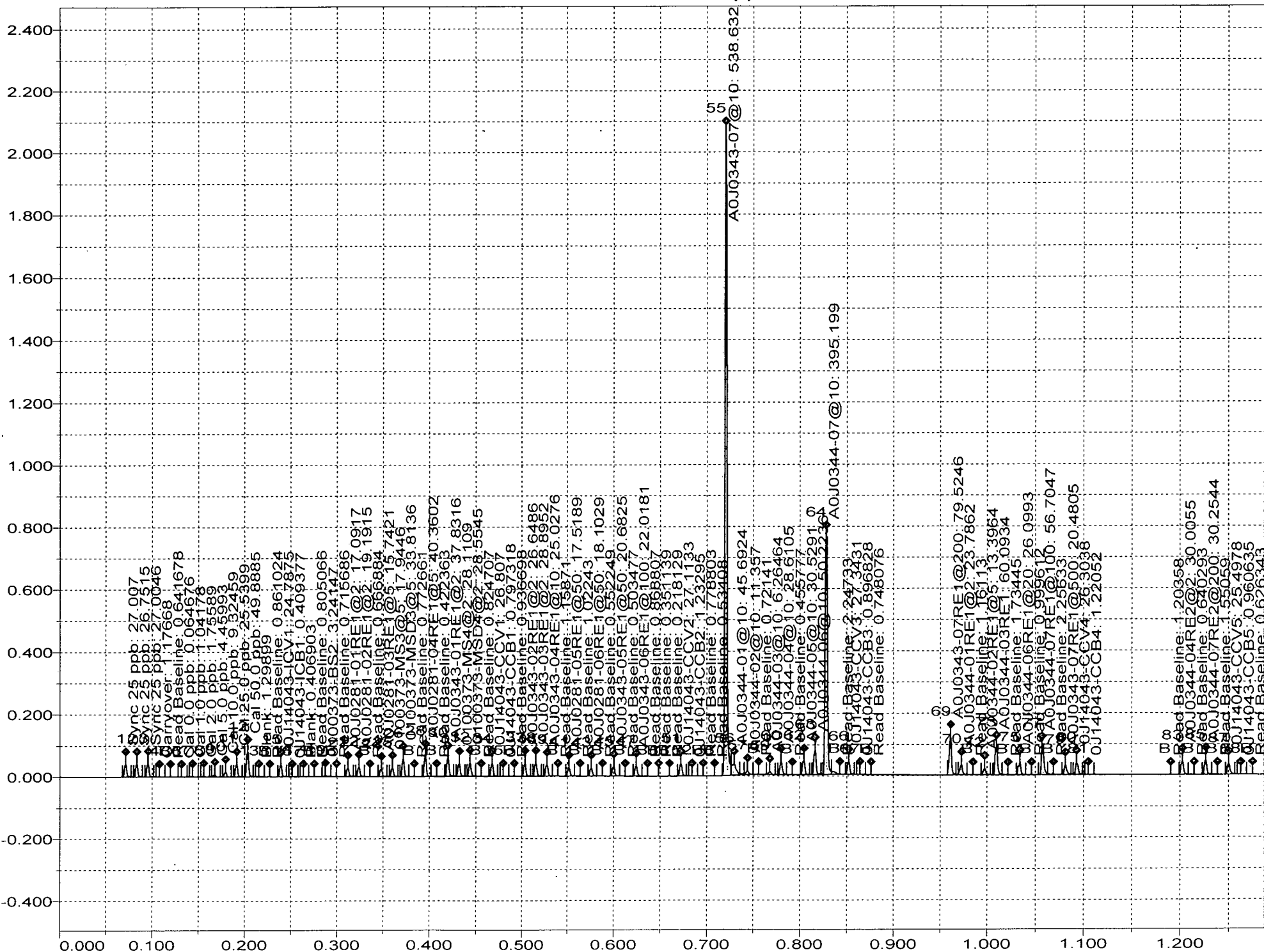
*OK  
done  
10/15/2020*

No Drift Peaks

TOTAL CN 50ppb:Calibration 1: Peak 6-89



Channel 1: TOTAL CN 50ppb





**Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection  
Benchsheet & Analysis Sequence Data (Including Calibration)**

Sequence 0J13039 (QC Only)



ELEMENT SEQUENCE LOG

Apex Laboratories

OCT 19 2020

Sequence: 0J13039 ✓

Instrument: OIA FS3000-2

Date: 10/13/20 09:55

Calibration: A0J1302 ✓

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J13039-CAL1	Water	QC	QC				
2	0J13039-CAL2	Water	QC	QC				A20H332 ✓
3	0J13039-CAL3	Water	QC	QC				A20H328 ✓
4	0J13039-CAL4	Water	QC	QC				A20H327 ✓
5	0J13039-CAL5	Water	QC	QC				A20H325 ✓
6	0J13039-CAL6	Water	QC	QC				A20H323 ✓
7	0J13039-CAL7	Water	QC	QC				A20H321 ✓
8	0J13039-ICV1	Water	QC	QC				A20I422 ✓
9	0J13039-ICB1	Water	QC	QC				
10	0100414-BS2	Water	QC	QC		0100414		
11	0100414-BLK1	Water	QC	QC		0100414		
12	0100414-BS1	Water	QC	QC		0100414		
13	A0J0205-02RE3	Water	Cyanide, Total (ASTM D7511, OIA)		10/12/20	0100414		
14	A0J0266-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/21/20	0100414		
15	0100414-MS1	Water	QC	QC		0100414		
16	0100414-MSD1	Water	QC	QC		0100414		
17	A0J0294-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/22/20	0100414		
18	A0J0321-02	Water	Cyanide, Total (ASTM D7511, OIA)		10/19/20	0100414		
19	A0J0362-08	Water	Cyanide, Total (ASTM D7511, OIA)		10/16/20	0100414		
20	0J13039-CCV1	Water	QC	QC				A20H323 ✓
21	0J13039-CCB1	Water	QC	QC				
22	A0J0378-01	Water	Cyanide, Total (ASTM D7511, OIA)		10/16/20	0100414		
23	A0J0396-02	Water	Cyanide, Total (ASTM D7511, OIA)		10/23/20	0100414		
24	0100373-BLK1	Soil	QC	QC		0100373		
25	0100373-BS1	Soil	QC	QC		0100373		
26	A0J0281-01	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
27	A0J0281-02	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
28	A0J0281-03	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
29	0100373-MS1	Soil	QC	QC		0100373		
30	0100373-MSD1	Soil	QC	QC		0100373		
31	A0J0281-04	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
32	0J13039-CCV2	Water	QC	QC				A20H323 ✓
33	0J13039-CCB2	Water	QC	QC				
34	A0J0281-05	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
35	A0J0281-06	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/21/20	0100373		
36	A0J0343-01	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
37	0100373-MS2	Soil	QC	QC		0100373		
38	0100373-MSD2	Soil	QC	QC		0100373		
39	A0J0343-02	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
40	A0J0343-03	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
41	A0J0343-04	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
42	A0J0343-05	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
43	A0J0343-06	Soil	Cyanide, Total (ASTM D7511, OIA)	Anchor QEA, LLC	10/22/20	0100373		
44	0J13039-CCV3	Water	QC	QC				A20H323 ✓
45	0J13039-CCB3	Water	QC	QC				

Comments:

Data Entered By/Date: MVD 10/13/20

Data Reviewed By/Date: AWD 10/13/2020

Run Results Report

Apex Laboratories OIA FS3000-2

Operator Name WVO  
 Operator ID WVO  
 Platform FS III/IV/3100  
 Software Rev Code 234  
 Data system ID 57

Result path C:\FLOW\_4\0J13039.RST  
 Sample table path C:\FLOW\_4\totcn50.tbl  
 Method path C:\FLOW\_4\totcn50.mth  
 Date acquired 13-Oct-20  
 Time acquired 13:11

----- TOTAL CN 50ppb -----

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
Sync 25 ppb	1185425	26.255	OL			
Sync 25 ppb	1213274	26.874				
Sync 25 ppb	1229557	27.235				
(Statistics)				1221416	27.054	1.83%
Carryover	36234	0.820				
Read Baseline	-809	0.003	BL			
Cal 0.0 ppb	-3407	-0.054	LO			
Cal 1.0 ppb	53573	1.202 ✓				
Cal 2.0 ppb	95553	2.129 ✓				
Cal 5.0 ppb	221135	4.900 ✓				
Cal 10.0 ppb	434261	9.609 ✓				
Cal 25.0 ppb	1139681	25.239 ✓				
Cal 50.0 ppb	2248875	49.954 ✓				
Blank	39849	0.900				
Read Baseline	7767	0.192	BL			
0J13039-ICV1	1059295	23.454 ✓				
0J13039-ICB1	35863	0.812 ✓				
Blank	969	0.042				
Read Baseline	-130	0.018	BL			
0100414-BS2	37362	0.845 ✓				
0100414-BLK1	-51001	-1.103 ✓	LO			
0100414-BS1	1059318	23.455 ✓				
Read Baseline	-4660	-0.082	BL			
A0J0205-02RE3@20 ✓	56185	1.260 ✓				
Read Baseline	-2951	-0.044	BL			
A0J0266-01	-100892	-2.203 ✓	LO			
0100414-MS1	964027	21.341 ✓				

*Handwritten:* < 3%  
 OK am 10/13/2020

*Handwritten:* R-04 am 10/19/2020

A MW0 10/13/20

Result path C:\FLOW\_4\OJ13039.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 13-Oct-20  
Time acquired 13:11

----- TOTAL CN 50ppb -----

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
0100414-MSD1	995161	22.031✓				
Read Baseline	2064	0.067	BL			
A0J0294-01	-74191	-1.614✓	LO			
A0J0321-02	-123663	-2.705✓	LO			
A0J0362-08@5 ✓	1277132	28.292✓				
Read Baseline	4820	0.127	BL			
OJ13039-CCV1	1107138	24.516✓				
OJ13039-CCB1	37319	0.844✓				
Read Baseline	21336	0.492	BL			
A0J0378-01	952398	21.083✓				
A0J0396-02	19478	0.451✓				
Read Baseline	-1824	-0.019	BL			
Read Baseline	11062	0.265	BL			
0100373-BLK1	9594	0.233✓				
0100373-BS1	821028	18.170				
Read Baseline	-2688	-0.038	BL			
A0J0281-01@5 -	302324	6.693✓				
A0J0281-02@5 -	326723	7.232✓				
A0J0281-03@5 ✓	635408	14.059✓				
Read Baseline	-3585	-0.058	BL			
0100373-MS1@5 ✓	703643	15.570✓				
0100373-MSD1@5 ✓	1361690	30.172✓				
A0J0281-04@5 ✓	1733141	38.441✓				
Read Baseline	7867	0.195	BL			
OJ13039-CCV2	1058488	23.437✓				
OJ13039-CCB2	7931	0.196✓				
Read Baseline	-24087	-0.510	BL			
A0J0281-05	26186016	624.485✓	HI			
A0J0281-06	28486030	683.833✓	HI			
A0J0343-01	3723206	83.066✓	HI			
Read Baseline	-1735	-0.017	BL			
0100373-MS2	2121769	47.113✓	FL			
0100373-MSD2	2283268	50.723✓				
A0J0343-02	2271066	50.450✓				
Read Baseline	-9649	-0.192	BL			
A0J0343-03	2279302	50.634✓				
A0J0343-04	8447730	191.186✓	HI			

NR. over diluted 10/13/20

NR. Re-run to confirm MW0 10/13/20

NR. CCV failed MW0 10/13/20

Result path C:\FLOW\_4\0J13039.RST  
 Sample table path C:\FLOW\_4\totcn50.tbl  
 Method path C:\FLOW\_4\totcn50.mth  
 Date acquired 13-Oct-20  
 Time acquired 13:11

----- TOTAL CN 50ppb -----

Name	Response	Calc [ppb]	Flags	Mean Response	Mean Calc [ppb]	RSD
Read Baseline	-32818	-0.703	BL			
A0J0343-05	31927320	773.987-	HI	} NR. cer failed, WVO 10/13/20		
A0J0343-06	72560240	1961.460-	HI			
Read Baseline	395556	8.753	BL			
0J13039-CCV3	936026	20.720-	FL			
0J13039-CCB3	-140739	-3.081-	LO			
Read Baseline	20392	0.471	BL			
A0J0343-07	n/m	n/m	n/m			
A0J0344-01	n/m	n/m	n/m			
A0J0344-02	n/m	n/m	n/m			
Read Baseline	n/m	n/m	n/m			
A0J0344-03	n/m	n/m	n/m			
A0J0344-04	n/m	n/m	n/m			

## Run Results Report

Apex Laboratories OIA FS3000-2

Operator Name WVO  
Operator ID WVO  
Platform FS III/IV/3100  
Software Rev Code 234  
Data system ID 57

Result path C:\FLOW\_4\0J13039.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 13-Oct-20  
Time acquired 13:11

---

Date	Time	Cup	Name
13-Oct-20	10:39	106	Sync 25 ppb
13-Oct-20	10:41	106	Sync 25 ppb
13-Oct-20	10:43	106	Sync 25 ppb
			(Statistics)
13-Oct-20	10:45	0	Carryover
13-Oct-20	10:47	0	Read Baseline
13-Oct-20	10:49	101	Cal 0.0 ppb
13-Oct-20	10:51	102	Cal 1.0 ppb
13-Oct-20	10:53	103	Cal 2.0 ppb
13-Oct-20	10:55	104	Cal 5.0 ppb
13-Oct-20	10:57	105	Cal 10.0 ppb
13-Oct-20	10:59	106	Cal 25.0 ppb
13-Oct-20	11:01	107	Cal 50.0 ppb
13-Oct-20	11:03	0	Blank
13-Oct-20	11:05	0	Read Baseline
13-Oct-20	11:07	108	0J13039-ICV1
13-Oct-20	11:09	0	0J13039-ICB1
13-Oct-20	11:11	0	Blank
13-Oct-20	11:13	0	Read Baseline
13-Oct-20	11:15	109	0100414-BS2
13-Oct-20	11:17	110	0100414-BLK1
13-Oct-20	11:19	111	0100414-BS1
13-Oct-20	11:21	0	Read Baseline
13-Oct-20	11:23	112	A0J0205-02RE3@20
13-Oct-20	11:25	0	Read Baseline
13-Oct-20	11:27	113	A0J0266-01
13-Oct-20	11:29	114	0100414-MS1

---

Result path C:\FLOW\_4\0J13039.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 13-Oct-20  
Time acquired 13:11

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Date	Time	Cup	Name
13-Oct-20	11:31	115	0100414-MSD1
13-Oct-20	11:33	0	Read Baseline
13-Oct-20	11:35	116	A0J0294-01
13-Oct-20	11:37	117	A0J0321-02
13-Oct-20	11:39	118	A0J0362-08@5
13-Oct-20	11:41	0	Read Baseline
13-Oct-20	11:43	106	0J13039-CCV1
13-Oct-20	11:45	0	0J13039-CCB1
13-Oct-20	11:47	0	Read Baseline
13-Oct-20	11:49	119	A0J0378-01
13-Oct-20	11:51	120	A0J0396-02
13-Oct-20	11:53	0	Read Baseline
13-Oct-20	11:55	0	Read Baseline
13-Oct-20	11:57	121	0100373-BLK1
13-Oct-20	11:59	122	0100373-BS1
13-Oct-20	12:01	0	Read Baseline
13-Oct-20	12:03	123	A0J0281-01@5
13-Oct-20	12:05	124	A0J0281-02@5
13-Oct-20	12:07	125	A0J0281-03@5
13-Oct-20	12:09	0	Read Baseline
13-Oct-20	12:11	126	0100373-MS1@5
13-Oct-20	12:13	127	0100373-MSD1@5
13-Oct-20	12:15	128	A0J0281-04@5
13-Oct-20	12:17	0	Read Baseline
13-Oct-20	12:19	106	0J13039-CCV2
13-Oct-20	12:21	0	0J13039-CCB2
13-Oct-20	12:23	0	Read Baseline
13-Oct-20	12:25	129	A0J0281-05
13-Oct-20	12:27	130	A0J0281-06
13-Oct-20	12:29	131	A0J0343-01
13-Oct-20	12:31	0	Read Baseline
13-Oct-20	12:33	132	0100373-MS2
13-Oct-20	12:35	133	0100373-MSD2
13-Oct-20	12:37	134	A0J0343-02
13-Oct-20	12:39	0	Read Baseline
13-Oct-20	12:41	135	A0J0343-03
13-Oct-20	12:43	136	A0J0343-04

Result path C:\FLOW\_4\0J13039.RST  
Sample table path C:\FLOW\_4\totcn50.tbl  
Method path C:\FLOW\_4\totcn50.mth  
Date acquired 13-Oct-20  
Time acquired 13:11

---

Date	Time	Cup	Name
13-Oct-20	12:45	0	Read Baseline
13-Oct-20	12:47	137	A0J0343-05
13-Oct-20	12:49	138	A0J0343-06
13-Oct-20	12:51	0	Read Baseline
13-Oct-20	12:53	106	0J13039-CCV3
13-Oct-20	12:55	0	0J13039-CCB3
13-Oct-20	12:57	0	Read Baseline
13-Oct-20	12:59	139	A0J0343-07
13-Oct-20	13:01	140	A0J0344-01
13-Oct-20	13:03	141	A0J0344-02
13-Oct-20	13:05	0	Read Baseline
13-Oct-20	13:07	142	A0J0344-03
13-Oct-20	13:09	143	A0J0344-04



TOTAL CN 50ppb:Calibration 1: Peak 6-76

File name: C:\FLOW\_4\0J13039.RST

Date: 13-Oct-20

Operator: WVO

* Name	Conc	Area
* Cal 0.0 ppb	0.000000	-3407.074707
* Cal 1.0 ppb	1.000000	53573.015625
* Cal 2.0 ppb	2.000000	95553.320312
* Cal 5.0 ppb	5.000000	221135.328125
* Cal 10.0 ppb	10.000000	434261.000000
* Cal 25.0 ppb	25.000000	1139680.875000
* Cal 50.0 ppb	50.000000	2248875.000000

Calib Coef:

$x = cy + by + a$

a: (intercept) 2.1036e-02

b: 2.2049e-05

c: 6.8673e-14

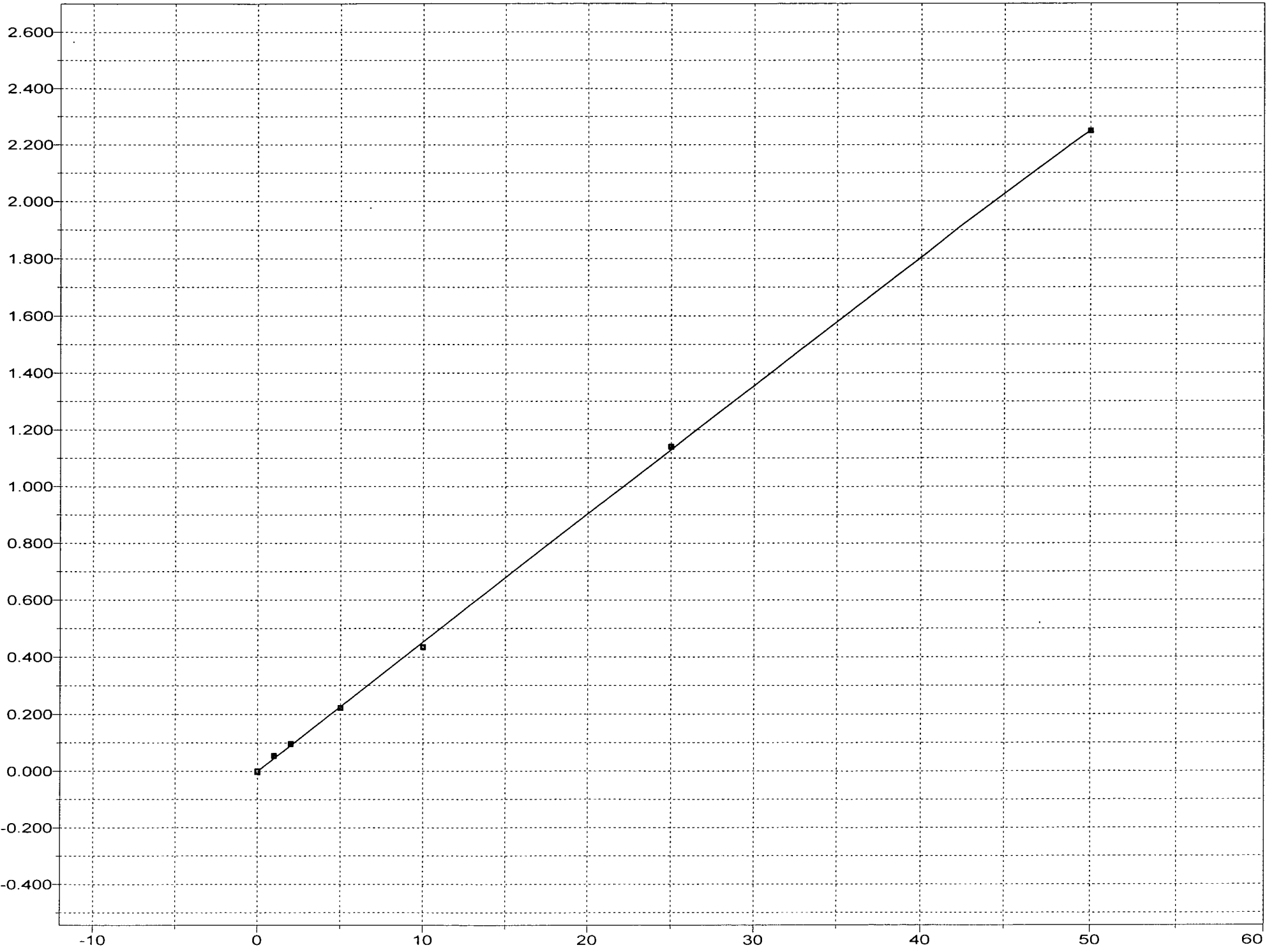
Corr Coef: 0.999935

Carryover: n/a

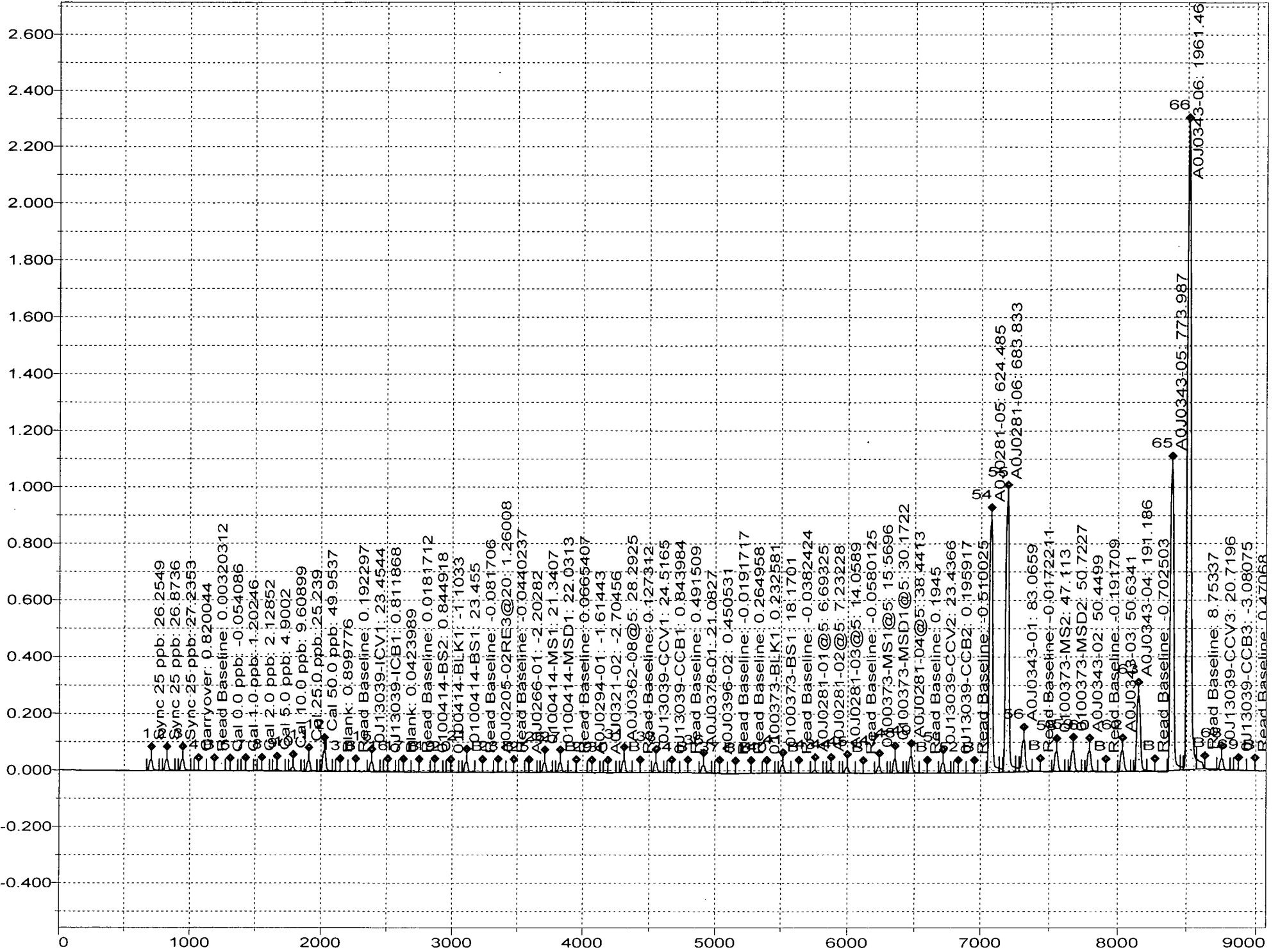
*OK  
10/13/2020*

No Drift Peaks

TOTAL CN 50ppb:Calibration 1: Peak 6-76



Channel 1: TOTAL CN 50ppb



**Conventional Chemistry Parameters**

**Total Organic Carbon- Soil (5310 B)  
Benchsheet & Analysis Sequence Data**

Batch 0100381

Sequence 0J13056 (A0J0344-01,02,03,04,05,06,07)



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

OCT 28 2020

BATCH #: 0100381 (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
	0100381-BLK1	QC	10/12/20 11:41	0.2	0.2									
	0100381-BS1	QC	10/12/20 11:41	0.2	0.2	A20I375		1						
	A0J0343-01	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-026SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-01	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-026SG-201008				
	0100381-DUP1	QC	10/12/20 11:41	0.2	0.2		A0J0343-01							
	0100381-DUP2	QC	10/12/20 11:41	0.2	0.2		A0J0343-01							
	A0J0343-02	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-033SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-02	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-033SG-201008				
	A0J0343-03	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-038SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-03	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-038SG-201008				
	A0J0343-04	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-044SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-04	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-044SG-201008				
	A0J0343-05	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-049SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-05	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-049SG-201008				
	A0J0343-06	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-052SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-06	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-052SG-201008				
	A0J0343-07	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-053SG-201008	5310C is completed; added 10/26, 2d			
	A0J0343-07	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-053SG-201008				
	A0J0344-01	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-041SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-01	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-041SG-201009				

Prepared By: CMW Date: 10/27/2020

Reviewed By: DLK Date: 10/27/20

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

**BATCH #: 0100381 (Soil)**

Prep Method: PSEP-5310B TOC

#	Lab Number	Analysis	Prepared	Initial (N/A)	Final (N/A)	Spike ID	Source ID	ul Spike	ul Surr.	Sample ID	Extraction Comments	pH		
												<2	8	>11
	0100381-DUP3	QC	10/12/20 11:41	0.2	0.2		A0J0344-01							
	A0J0344-02	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-042SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-02	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-042SG-201009				
	A0J0344-03	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-043SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-03	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-043SG-201009				
	A0J0344-04	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-047SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-04	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-047SG-201009				
	A0J0344-05	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-050SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-05	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-050SG-201009				
	A0J0344-06	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-051SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-06	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-051SG-201009				
	A0J0344-07	A Total Organic Carbon - Sediment (PSEP/BC)	10/12/20 11:41	0.2	0.2					USMPDI-054SG-201009	5310C is completed; added 10/26, 2d			
	A0J0344-07	A Total Organic Carbon - Soil (5310 B)	10/12/20 11:41	0.2	0.2					USMPDI-054SG-201009				

**Standards/Reagents**

Reagent(s)			Analyte Spike(s)			Surrogate(s)		
Std ID	Exp. Date	Description	Std ID	Exp. Date	Description	Std ID	Exp. Date	Description
A13L220	11/30/23	Wet Chem Balance 1	A201375	03/24/21	TOC 10k ppm secondary			
A19F020	06/03/29	TOC Soil Drying Oven @70oC						
A19J023	11/30/23	Wet Chem Balance 4						
A19J145	05/30/22	TOC Soil Blank Matrix						
A19K369	11/27/24	VWR002V						
A20F100	12/08/20	10% Phosphoric Acid						

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

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

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

**BATCH #: 0100381 (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	5-8	>11	

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

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

Batch #:0100381

### TOC soil drying

Date: 10/13/20

Analyst: wvo

Page: 1 of

Sample ID	Tare Weight (g)	Wet Weight (g)	Dried Weight (g)				Comments	Effervesces? (Y or N)
			1 <sup>st</sup> weighing	2nd Weighing	3rd Weighing	4th Weighing		
			Date/ Time: 10/13/20 08:30	10/13/20	10/13/20			
			Oven Temp. (°C) in/ out: 70.5/69.9	69.6/70.1	69.9/70.0	/		
A0J0343-01	1.3011	11.9915	<b>5.8372</b>	5.8490	5.8392			N
0100381-DUP1	1.2782	11.5873	<b>5.6959</b>	5.7072	5.6975	A0J0343-01		N
A0J0343-02	1.3001	11.9238	<b>5.4400</b>	5.4533	5.4407			N
A0J0343-03	1.2956	12.1757	<b>5.4231</b>	5.4310	5.4263			N
A0J0343-04	1.2919	12.0347	5.2748	5.2853	<b>5.2805</b>			N
A0J0343-05	1.3095	12.0464	5.3025	5.3144	<b>5.3109</b>			N
A0J0343-06	1.2902	11.7406	<b>5.3317</b>	5.3426	5.3357			N
A0J0343-07	1.2951	11.8931	<b>6.1835</b>	6.1918	6.1853			N
A0J0344-01	1.2852	11.7956	<b>4.9731</b>	4.9857	4.9766			N
0100381-DUP3	1.3076	11.5767	4.9167	<b>4.9325</b>	4.9355	A0J0344-01		N
A0J0344-02	1.3084	11.4576	<b>5.0941</b>	5.1016	5.0951			N
A0J0344-03	1.2927	11.6672	<b>4.9171</b>	4.9237	4.9190			N
A0J0344-04	1.2881	11.8901	5.0946	5.1030	<b>5.0915</b>			N
A0J0344-05	1.3096	12.1137	5.0159	5.0240	<b>5.0110</b>			N
A0J0344-06	1.2972	11.7179	5.1856	<b>5.1964</b>	5.1998			N
A0J0344-07	1.2958	12.2851	<b>5.5696</b>	5.5705	5.5728			N





ELEMENT SEQUENCE LOG

OCT 28 2020

Apex Laboratories

Sequence: OJ13056
Date: 10/13/20 15:10

Instrument: TOC6
Calibration: A0H1904

Table with columns: #, Lab Number, Matrix, Analysis, Client, Due, Batch, ISTD ID, STD ID. Contains 51 rows of data including sample IDs, matrices (Soil), analysis types (QC, TOC), and client information (Anchor QEA, LLC).

Sequence:

0J13056

Instrument:

TOC6

Date:

10/13/20 15:10

Calibration:

A0H1904

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	0J13056-CCB4	Soil	QC	QC				
53	A0J0298-27	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
54	A0J0298-28	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
55	A0J0298-29	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
56	A0J0298-30	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
57	0100333-DUP3	Soil	QC	QC		0100333		
58	A0J0298-31	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
59	A0J0298-32	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
60	A0J0298-33	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
61	A0J0298-34	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
62	A0J0298-35	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
63	0J13056-CCV5	Soil	QC	QC				A201376
64	0J13056-CCB5	Soil	QC	QC				
65	A0J0298-36	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
66	A0J0298-37	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
67	A0J0298-38	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
68	0J13056-CCV6	Soil	QC	QC				A201376
69	0J13056-CCB6	Soil	QC	QC				

Data Entered By/Date:

*UMP 10/27/2020*

Comments:

*Data reentered using correct test code for work orders A0J0343 & A0J0344. UMP 10/27/2020*

Data Reviewed By/Date:

*UMP 10/27/20*

10/27/2020 1:39:09PM





# ELEMENT SEQUENCE LOG

Apex Laboratories

OCT 15 2020

Sequence: OJ13056 -

Instrument: TOC6

Date: 10/13/20 15:10

Calibration: A0H1904 -

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	OJ13056-CCV1	Soil	QC	QC				A201376 -
2	OJ13056-CCB1	Soil	QC	QC				
3	0100381-BLK1	Soil	QC	QC		0100381		
4	0100381-BS1	Soil	QC	QC		0100381		
5	0100333-BLK1	Soil	QC	QC		0100333		
6	0100333-BS1	Soil	QC	QC		0100333		
7	A0J0343-01	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
8	0100381-DUP1	Soil	QC	QC		0100381		
9	0100381-DUP2	Soil	QC	QC		0100381		
10	A0J0343-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
11	A0J0343-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
12	A0J0343-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
13	OJ13056-CCV2	Soil	QC	QC				A201376 -
14	OJ13056-CCB2	Soil	QC	QC				
15	A0J0343-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
16	A0J0343-06	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
17	A0J0343-07	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/22/20	0100381		
18	A0J0344-01	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
19	0100381-DUP3	Soil	QC	QC		0100381		
20	A0J0344-02	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
21	A0J0344-03	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
22	A0J0344-04	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
23	A0J0344-05	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
24	A0J0344-06	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
25	OJ13056-CCV3	Soil	QC	QC				A201376 -
26	OJ13056-CCB3	Soil	QC	QC				
27	A0J0344-07	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/23/20	0100381		
28	A0J0298-20	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
29	0100333-DUP1	Soil	QC	QC		0100333		
30	0100333-DUP2	Soil	QC	QC		0100333		
31	A0J0298-21	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
32	A0J0298-22	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
33	A0J0298-23	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
34	A0J0298-24	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
35	A0J0298-25	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
36	A0J0298-26	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
37	OJ13056-CCV4	Soil	QC	QC				A201376 -
38	OJ13056-CCB4	Soil	QC	QC				
39	A0J0298-27	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
40	A0J0298-28	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
41	A0J0298-29	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
42	A0J0298-30	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
43	0100333-DUP3	Soil	QC	QC		0100333		
44	A0J0298-31	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
45	A0J0298-32	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
46	A0J0298-33	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
47	A0J0298-34	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
48	A0J0298-35	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
49	OJ13056-CCV5	Soil	QC	QC				A201376 -
50	OJ13056-CCB5	Soil	QC	QC				
51	A0J0298-36	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		

Sequence:

0J13056

Instrument:

TOC6

Date:

10/13/20 15:10

Calibration:

A0H1904

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
52	A0J0298-37	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
53	A0J0298-38	Soil	Total Organic Carbon - Soil (5310 B)	Anchor QEA, LLC	10/14/20	0100333		
54	0J13056-CCV6	Soil	QC	QC				A201376 ✓
55	0J13056-CCB6	Soil	QC	QC				

Data Entered By/Date: MWD 10/14/20

Data Reviewed By/Date: CMT 10/14/2020

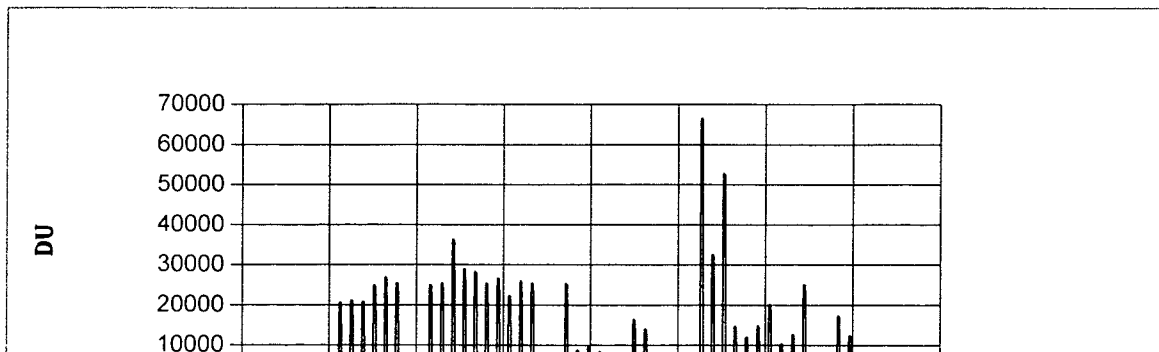
Comments:

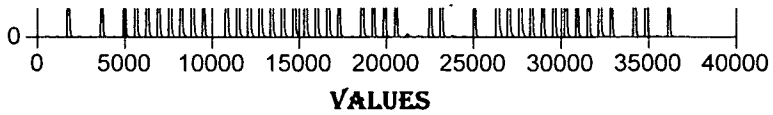
Method: TCDirect Run Start Time: 10/13/2020 4:49:13  
Method Type: TC\_DIRECT Run End Time: 10/14/2020 3:13:30  
Table: 0J13056 Device ID: TOC6  
Analyst: Administrator Run Name: SN10020201013A1

Cup Position	Sample ID	Weight ( mg )	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A100	PRIME	200	75.519	0.015	10105.96	10/13/2020 4:50:38 PM
A2	BLANK	200	39.001	0.008	5219.19	10/13/2020 5:02:27 PM
A1	0J13056-CCV1	200	10622.88 ✓	2.125	1421563.695	10/13/2020 5:13:20 PM
A2	0J13056-CCB1	200	48.391 ✓	0.01	6475.765	10/13/2020 5:24:06 PM
A3	0100381-BLK1	212.8	49.486 ✓	0.011	7046.06	10/13/2020 5:34:53 PM
A4	0100381-BS1	200	9477.922 ✓	1.896	1268344.345	10/13/2020 5:45:41 PM
A5	0100333-BLK1	213.1	79.661 ✓	0.017	11358.53	10/13/2020 5:56:27 PM
A6	0100333-BS1	200	9273.661 ✓	1.855	1241009.99	10/13/2020 6:07:13 PM
A7	A0J0343-01	206.6	24457.622 ✓	5.053	3380948.935	10/13/2020 6:18:00 PM
A8	0100381-DUP1	203.4	25352.065 ✓	5.157	3450311.92	10/13/2020 6:28:47 PM
A9	0100381-DUP2	212.7	23992.394 ✓	5.103	3414563.11	10/13/2020 6:39:34 PM
A10	A0J0343-02	205	29915.29 ✓	6.133	4103374.5	10/13/2020 6:50:21 PM
A11	A0J0343-03	202.6	32650.103 ✓	6.615	4426067.91	10/13/2020 7:01:08 PM
A12	A0J0343-04	205.5	30620.789 ✓	6.293	4210389.54	10/13/2020 7:11:55 PM
A13	0J13056-CCV2	200	9626.59 ✓	1.925	1288239.24	10/13/2020 7:22:42 PM
A2	0J13056-CCB2	200	83.724 ✓	0.017	11203.96	10/13/2020 7:33:29 PM
A14	A0J0343-05	206.4	29954.104 ✓	6.183	4136757.825	10/13/2020 7:44:23 PM
A15	A0J0343-06	203.8	30994.483 ✓	6.317	4226517.29	10/13/2020 7:55:17 PM
A16	A0J0343-07	202	44404.606 ✓	8.97	6001688.625	10/13/2020 8:06:04 PM
A17	A0J0344-01	204.8	34913.968 ✓	7.15	4784353.145	10/13/2020 8:16:51 PM
A18	0100381-DUP3	205.4	34079.33 ✓	7	4683662.06	10/13/2020 8:27:38 PM
A19	A0J0344-02	204.3	30720.375 ✓	6.276	4199416.545	10/13/2020 8:38:25 PM
A20	A0J0344-03	203.5	32317.626 ✓	6.577	4400458.57	10/13/2020 8:49:12 PM
A21	A0J0344-04	203	27161.967 ✓	5.514	3689362.43	10/13/2020 8:59:59 PM
A22	A0J0344-05	200.6	31961.558 ✓	6.411	4289957.02	10/13/2020 9:10:46 PM
A23	A0J0344-06	203	31052.529 ✓	6.304	4217810.76	10/13/2020 9:21:33 PM
A24	0J13056-CCV3	200	9691.625 ✓	1.938	1296942.35	10/13/2020 9:32:19 PM
A2	0J13056-CCB3	200	88.949 ✓	0.018	11903.245	10/13/2020 9:43:06 PM
A25	A0J0344-07	207.5	30125.714 ✓	6.251	4182630.73	10/13/2020 9:54:01 PM
A26	A0J0298-20	201.3	10803.059 ✓	2.175	1455072.31	10/13/2020 10:04:54 PM
A27	0100333-DUP1	205.5	11359.453 ✓	2.334	1561936.27	10/13/2020 10:15:42 PM
A28	0100333-DUP2	202.4	10367.705 ✓	2.098	1404065.015	10/13/2020 10:26:29 PM
A29	A0J0298-21	204.8	845.781 ✓	0.173	115899.64	10/13/2020 10:37:15 PM

A30	A0J0298-22	200.4	283.687 -	0.057	38039.21	10/13/2020 10:48:02 PM
A31	A0J0298-23	203	19834.764 -	4.026	2694121.275	10/13/2020 10:58:48 PM
A32	A0J0298-24	205	16882.989 -	3.461	2315779.8	10/13/2020 11:09:35 PM
A33	A0J0298-25	206.2	349.026 -	0.072	48154.91	10/13/2020 11:20:21 PM
A34	A0J0298-26	207.2	230.326 ✓	0.048	31932.03	10/13/2020 11:31:08 PM
A35	OJ13056-CCV4	200	9465.993 ✓	1.893	1266748.1	10/13/2020 11:41:54 PM
A2	OJ13056-CCB4	200	54.041 -	0.011	7231.87	10/13/2020 11:52:40 PM
A36	A0J0298-27	200	81696.162 -	16.339	10932656.94	10/14/2020 12:03:34 AM
A37	A0J0298-28	199.6	40218.566 -	8.028	5371322.015	10/14/2020 12:14:27 AM
A38	A0J0298-29	199.6	65064.413 -	12.987	8689566.675	10/14/2020 12:25:14 AM
A39	A0J0298-30	206.1	17745.358 -	3.657	2447128.76	10/14/2020 12:36:00 AM
A40	O100333-DUP3	205.8	14339.362 -	2.951	1974555.15	10/14/2020 12:46:47 AM
A41	A0J0298-31	204.2	17958.933 ✓	3.667	2453750.09	10/14/2020 12:57:33 AM
A42	A0J0298-32	197.2	25246.205 -	4.979	3331172.2	10/14/2020 1:08:33 AM
A43	A0J0298-33	203.9	12532.34 -	2.555	1709792.69	10/14/2020 1:19:26 AM
A44	A0J0298-34	200.3	15770.163 -	3.159	2113543.585	10/14/2020 1:30:20 AM
A45	A0J0298-35	203.8	30432.703 ✓	6.202	4149910.99	10/14/2020 1:41:13 AM
A46	OJ13056-CCV5	200	9601.549 ✓	1.92	1284888.295	10/14/2020 1:52:07 AM
A2	OJ13056-CCB5	200	80.137 -	0.016	10723.995	10/14/2020 2:03:01 AM
A47	A0J0298-36	204.4	21007.775 -	4.294	2873128.31	10/14/2020 2:13:54 AM
A48	A0J0298-37	200.8	15285.09 ✓	3.069	2053646.92	10/14/2020 2:24:48 AM
A49	A0J0298-38	200	362.405 ✓	0.072	48497.31	10/14/2020 2:35:42 AM
A50	OJ13056-CCV6	200	9381.75 ✓	1.876	1255474.57	10/14/2020 2:46:35 AM
A2	OJ13056-CCB6	200	56.275 ✓	0.011	7530.71	10/14/2020 2:57:28 AM

RR-2  
 10/14/2020  
 RR-2





*done 10/19/2020*

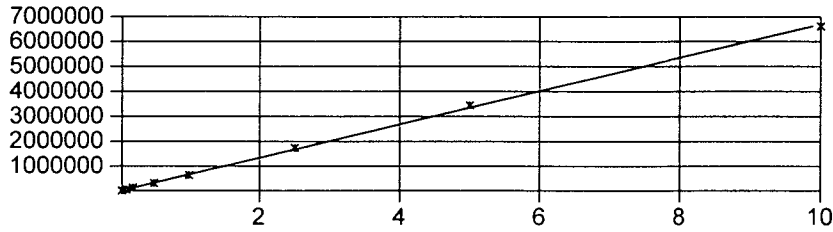
**SNACCESS**

**RUN NAME : SN10020200818AS METHOD NAME : TCDIRECT CALIBRATION TYPE : I**

**ORDER FORCED THRO ZERO GROUP : 1**

**A = 0.0000000000000000 B = 669104.68364697200000 R = 0.99973664180877 R-**

**SQUARED = 0.99942005573222**





**Conventional Chemistry Parameters**

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

Sequence 0H18059 (Cal ID A0H1904) TOC6



ELEMENT SEQUENCE LOG

Apex Laboratories

AUG 24 2020

Sequence: 0H18059 -

Instrument: TOC6

Date: 08/18/20 16:37

Calibration: AOH1804

AOH1904 mo 8/19/20

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0H18059-CAL1	Sediment	QC	QC				
2	0H18059-CAL2	Sediment	QC	QC				A20H281 ✓
3	0H18059-CAL3	Sediment	QC	QC				A20H282 ✓
4	0H18059-CAL4	Sediment	QC	QC				A20H283 ✓
5	0H18059-CAL5	Sediment	QC	QC				A20H284 ✓
6	0H18059-CAL6	Sediment	QC	QC				A20H285 ✓
7	0H18059-CAL7	Sediment	QC	QC				A20H286 ✓
8	0H18059-CAL8	Sediment	QC	QC				A20H287 ✓
9	0H18059-CAL9	Sediment	QC	QC				A20H288 ✓
10	0H18059-ICV1	Sediment	QC	QC				A20E110 ✓
11	0H18059-ICB1	Sediment	QC	QC				

Data Entered By/Date: WVO 8/18/20

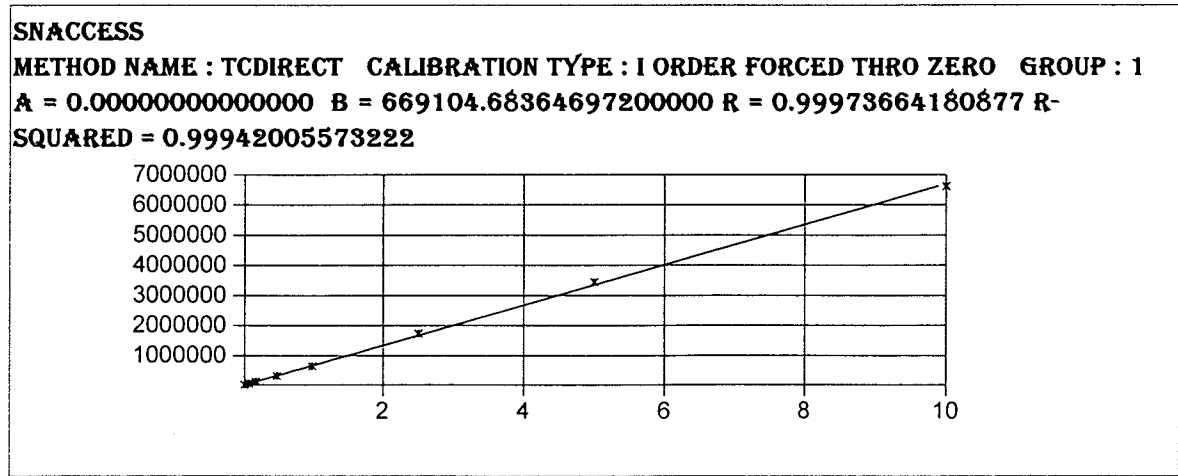
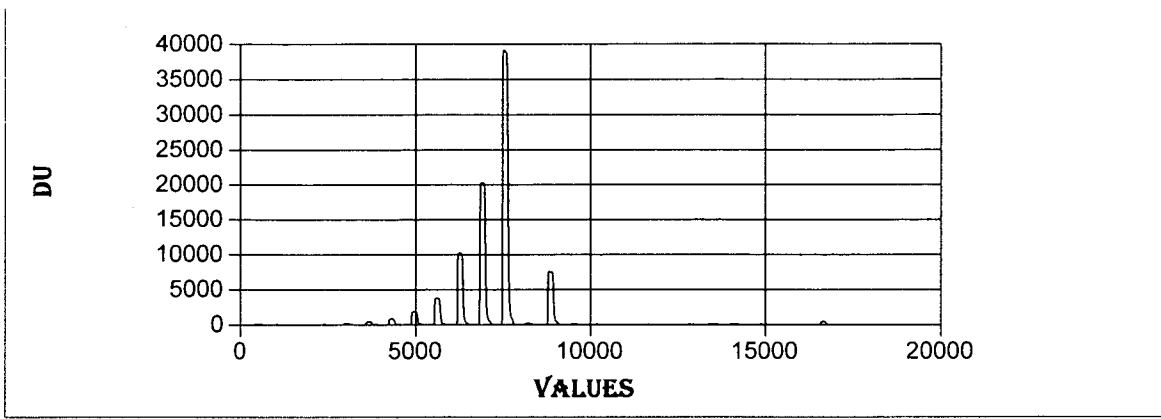
Comments:

Data Reviewed By/Date: amz 8/19/2020

Method: TCDirect Run Start Time: 8/18/2020 4:59:13 P  
 Method Type: TC\_DIRECT Run End Time: 8/18/2020 9:46:17 P  
 Table: OH18059 Device ID: TOC6  
 Analyst: Administrator Run Name: SN10020200818A3

Cup Position	Sample ID	Weight ( mg )	Final Result (mg/kg)	Result mg C abs	Peak Area	Analysed Date and time
A98	prime	200	105.248	0.021	14084.43	8/18/2020 4:59:24 PM
A18	blank	200	0	0	0	8/18/2020 5:10:25 PM
A2	blank	200	19.356	0.004	2590.265	8/18/2020 5:21:20 PM
A18	OH18059-CAL1	200	0	0	0	8/18/2020 5:32:13 PM
A19	OH18059-CAL2	40	1140.934	0.046	30536.16	8/18/2020 5:43:07 PM
A20	OH18059-CAL3	100	1075.239	0.108	71944.735	8/18/2020 5:53:54 PM
A21	OH18059-CAL4	200	1074.057	0.215	143731.35	8/18/2020 6:04:42 PM
A22	OH18059-CAL5	50	9779.244	0.489	327166.91	8/18/2020 6:15:28 PM
A23	OH18059-CAL6	100	9754.176	0.975	652656.49	8/18/2020 6:26:14 PM
A24	OH18059-CAL7	250	10405.909	2.601	1740660.62	8/18/2020 6:37:07 PM
A25	OH18059-CAL8	500	10328.711	5.164	3455494.44	8/18/2020 6:47:54 PM
A26	OH18059-CAL9	1000	9895.069	9.895	6620837.05	8/18/2020 6:58:40 PM
A98	OH18059-IBL1	200	251.829	0.05	333699.97	8/18/2020 7:09:26 PM
A27	OH18059-ICV1	200	9819.341 ✓	1.964	1314033.455	8/18/2020 7:20:27 PM
A2	OH18059-ICB1	200	162.52 ✓	0.033	21748.54	8/18/2020 7:31:13 PM
A19	CLEAN19	200	85.855	0.017	11489.14	8/18/2020 7:42:06 PM
A20	CLEAN20	200	62.561	0.013	8372.015	8/18/2020 7:53:00 PM
A21	CLEAN21	200	48.713	0.01	6518.76	8/18/2020 8:03:53 PM
A22	CLEAN22	200	48.015	0.01	6425.385	8/18/2020 8:14:46 PM
A23	CLEAN23	200	69.557	0.014	9308.23	8/18/2020 8:25:32 PM
A24	CLEAN24	200	46.695	0.009	6248.81	8/18/2020 8:36:19 PM
A25	CLEAN25	200	89.279	0.018	11947.395	8/18/2020 8:47:05 PM
A26	CLEAN26	200	49.395	0.01	6610.08	8/18/2020 8:57:52 PM
A27	CLEAN27	200	50.304	0.01	6731.79	8/18/2020 9:08:38 PM
A28	CLEAN28	200	23.025	0.005	3081.205	8/18/2020 9:19:31 PM
A30	CLEAN30	200	558.249	0.112	74705.365	8/18/2020 9:30:18 PM

*Handwritten notes:*  
 WWS 8/19/20  
 2445 = 0.489  
 4875 = 0.975  
 13,005 = 2.601  
 5.164 = 25,820  
 44475 = 9.895  
 0.0002  
 230  
 540  
 1075  
 0.0002  
 25,820  
 44475  
 WWS 8/19/20



Date : 8/19/2020

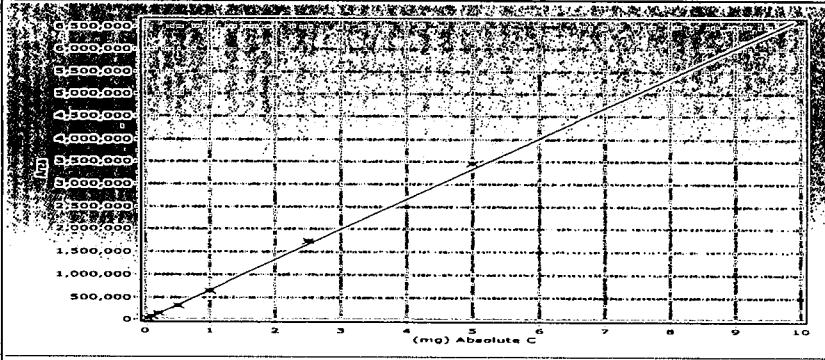
Run start date time : 8/18/2020 4:59:13 PM

Run end date : 8/18/2020 9:46:13 PM

Run Display Name : 0H18059

Run DB : SN10020200818A3

Created User : Administrator



Method Name	TCDirect		
Type	Order Forced thro Zero	Group =	
a =	0	r =	0.99973664180877
b =	669104.683646972	R-Squared =	0.99942005573222

Serial No.	Position	Type	Identity	Weight	Peak Area	Residuals
5	A19	S	0H18059-CAL2	40	30536.1600	12.3525
6	A20	S	0H18059-CAL3	100	71944.7350	6.9974
7	A21	S	0H18059-CAL4	200	143731.3500	6.8951
8	A22	S	0H18059-CAL5	50	327166.9100	2.2574
9	A23	S	0H18059-CAL6	100	652656.4900	2.5202
10	A24	S	0H18059-CAL7	250	1740660.6200	3.9008
11	A25	S	0H18059-CAL8	500	3455494.4400	3.1825
12	A26	S	0H18059-CAL9	1000	6620837.0500	1.0604

OK  
 8/19/2020  
 ↓

**Total Solids by SM2540G  
Benchsheet Data**

Batch 0100376 (A0J0344-01,02,03,04,05,06,07)



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

OCT 15 2020

**Percent Solids + Dry Weight Worksheet**

**BATCH #: 0100376 (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
A0J0298-19	Dry Weight		10/12/20 10:19		1.2929 -	27.7284 -	24.1968 -	86.6 -	BatchQC
A0J0298-19	Solids, Total (SM 254)		10/12/20 10:19		1.2929 ✓	27.7284 ✓	24.1968 ✓	86.6 ✓	Use Results for Dry Weight (Not for Waters)
0100376-DUP2	QC	A0J0298-19	10/12/20 10:19		1.2971 ✓	27.3662 ✓	23.9751 ✓	87.0 -	
A0J0343-01	Dry Weight		10/12/20 10:19		1.3036 -	28.9454 -	13.1352 -	42.8 -	use TS data, make non-reportable
A0J0343-01	Solids, Total (SM 254)		10/12/20 10:19		1.3036 ✓	28.9454 ✓	13.1352 ✓	42.8 ✓	enter TS data in dry wt
A0J0343-02	Dry Weight		10/12/20 10:19		1.2976 -	27.9948 -	11.9763 -	40.0 -	use TS data, make non-reportable
A0J0343-02	Solids, Total (SM 254)		10/12/20 10:19		1.2976 ✓	27.9948 ✓	11.9763 ✓	40.0 ✓	enter TS data in dry wt
A0J0343-03	Dry Weight		10/12/20 10:19		1.2821 -	27.7154 -	11.1291 -	37.3 -	use TS data, make non-reportable
A0J0343-03	Solids, Total (SM 254)		10/12/20 10:19		1.2821 ✓	27.7154 ✓	11.1291 ✓	37.3 ✓	enter TS data in dry wt
A0J0343-04	Dry Weight		10/12/20 10:19		1.3056 -	27.3291 -	10.9138 -	36.9 -	use TS data, make non-reportable
A0J0343-04	Solids, Total (SM 254)		10/12/20 10:19		1.3056 ✓	27.3291 ✓	10.9138 ✓	36.9 ✓	enter TS data in dry wt
A0J0343-05	Dry Weight		10/12/20 10:19		1.2849 -	26.5817 -	10.4694 -	36.3 ✓	use TS data, make non-reportable
A0J0343-05	Solids, Total (SM 254)		10/12/20 10:19		1.2849 ✓	26.5817 ✓	10.4694 ✓	36.3 -	enter TS data in dry wt
A0J0343-06	Dry Weight		10/12/20 10:19		1.2919 -	27.5796 -	11.1798 -	37.6 -	use TS data, make non-reportable
A0J0343-06	Solids, Total (SM 254)		10/12/20 10:19		1.2919 ✓	27.5796 ✓	11.1798 ✓	37.6 -	enter TS data in dry wt
A0J0343-07	Dry Weight		10/12/20 10:19		1.2878 -	27.7499 -	13.8151 -	47.3 -	use TS data, make non-reportable
A0J0343-07	Solids, Total (SM 254)		10/12/20 10:19		1.2878 ✓	27.7499 ✓	13.8151 ✓	47.3 ✓	enter TS data in dry wt
A0J0344-01	Dry Weight		10/12/20 10:19		1.3001 -	27.1164 -	10.5358 -	35.8 ✓	use TS data, make non-reportable
A0J0344-01	Solids, Total (SM 254)		10/12/20 10:19		1.3001 ✓	27.1164 ✓	10.5358 ✓	35.8 -	enter TS data in dry wt
0100376-DUP1	QC	A0J0344-01	10/12/20 10:19		1.2929 -	27.8308 -	10.783 -	35.8 -	
A0J0344-02	Dry Weight		10/12/20 10:19		1.3028 -	28.0994 -	11.4973 ✓	38.0 -	use TS data, make non-reportable

Prepared By: amb Date: 10/13/20

Reviewed By: amb Date: 10/14/2020



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

**Percent Solids + Dry Weight Worksheet**

**BATCH #: 0100376 (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
A0J0344-02	Solids, Total (SM 254)		10/12/20 10:19		1.3028 ✓	28.0994 -	11.4973 ✓	38.0 ✓	enter TS data in dry wt
A0J0344-03	Dry Weight		10/12/20 10:19		1.2939 ✓	26.8535 -	10.4355 -	35.8 ✓	use TS data, make non-reportable
A0J0344-03	Solids, Total (SM 254)		10/12/20 10:19		1.2939 ✓	26.8535 ✓	10.4355 ✓	35.8 ✓	enter TS data in dry wt
A0J0344-04	Dry Weight		10/12/20 10:19		1.2889 -	29.7232 -	12.0311 ✓	37.8 ✓	use TS data, make non-reportable
A0J0344-04	Solids, Total (SM 254)		10/12/20 10:19		1.2889 ✓	29.7232 ✓	12.0311 ✓	37.8 ✓	enter TS data in dry wt
A0J0344-05	Dry Weight		10/12/20 10:19		1.3109 -	27.6679 ✓	10.6017 -	35.2 -	use TS data, make non-reportable
A0J0344-05	Solids, Total (SM 254)		10/12/20 10:19		1.3109 ✓	27.6679 ✓	10.6017 ✓	35.2 ✓	enter TS data in dry wt
A0J0344-06	Dry Weight		10/12/20 10:19		1.3054 ✓	27.8536 -	10.9358 -	36.3 -	use TS data, make non-reportable
A0J0344-06	Solids, Total (SM 254)		10/12/20 10:19		1.3054 ✓	27.8536 ✓	10.9358 ✓	36.3 ✓	enter TS data in dry wt
A0J0344-07	Dry Weight		10/12/20 10:19		1.3055 -	27.9835 ✓	11.6437 -	38.8 -	use TS data, make non-reportable
A0J0344-07	Solids, Total (SM 254)		10/12/20 10:19		1.3055 ✓	27.9835 ✓	11.6437 ✓	38.8 ✓	enter TS data in dry wt

Prepared By: AmB Date: 10/13/20

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





**Balance Checksheets**

Extractions October 2020

Wet Chem October 2020





**Balance Challenge Log**

**Wet Chem Balance 5**  
 Ohaus Pioneer PX124  
 ID# C032834626

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: October  
 Year: 2020

Alternate Weight/ID used: \_\_\_\_\_  
 Date Range: \_\_\_\_\_

Day/Time	Initials	Weight 1	Observed	Weight 2	Observed	Weight 3	Observed
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16		100.0000g		0.1000g		.0050g	
17							
18							
19							
20							
21							
22							
23							
24							
25							
26	HAS 0948		100.0004		0.1000		0.0049
27	1027 AMB		99.9994		0.1000		0.0050
28	HAS 0910		99.9995		0.0998		0.0050
29	1140 AMB		99.9996		0.1000		0.0048
30	1015 AMB		100.0000		0.0999		0.0050
31							

*Not in service*

*pre 10/26/20*

## Amended Data

## Amended CLP-Like Forms

# Apex Laboratories

SDG: A0J0344  
CLASS: GCMS  
METHOD: EPA 8270E



**ANALYSES DATA PACKAGE COVER PAGE**

**EPA 8270E**

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

---

**Client Sample Id:**

USMPDI-054SG-201009

**Lab Sample Id:**

A0J0344-07

**Matrix**

SE

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: \_\_\_\_\_

2/19/2021 10:11AM

Title: \_\_\_\_\_

Technical Manager

# METHOD DETECTION AND REPORTING LIMITS

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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 8270E

**USMPDI-054SG-201009**

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>SE</u>	Laboratory ID: <u>A0J0344-07</u>	File ID: <u>N10222007.D</u>
Sampled: <u>10/09/20 14:50</u>	Prepared: <u>10/22/20 10:40</u>	Analyzed: <u>10/22/20 18:14</u>
Solids: <u>38.75</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>10.15 g / 5 mL</u>
Batch: <u>0100764</u>	Sequence: <u>0J22053</u>	Calibration: <u>A0H1005</u> Instrument: <u>SV-GCMS14</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
83-32-9	Acenaphthene	200	747	D
208-96-8	Acenaphthylene	200	628	D
120-12-7	Anthracene	200	1460	D
56-55-3	Benz(a)anthracene	200	4010	D
50-32-8	Benzo(a)pyrene	200	5840	D
205-99-2	Benzo(b)fluoranthene	200	4530	D
207-08-9	Benzo(k)fluoranthene	200	1630	D
191-24-2	Benzo(g,h,i)perylene	200	3990	D
218-01-9	Chrysene	200	4970	D
53-70-3	Dibenz(a,h)anthracene	200	526	D
206-44-0	Fluoranthene	200	6910	D
86-73-7	Fluorene	200	597	D
193-39-5	Indeno(1,2,3-cd)pyrene	200	3200	D
91-57-6	2-Methylnaphthalene	200	402	D
91-20-3	Naphthalene	200	994	D
85-01-8	Phenanthrene	200	4510	D
129-00-0	Pyrene	200	8730	D

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorobiphenyl (Surr)	127	99.2	78	44 - 120	D
p-Terphenyl-d14 (Surr)	127	122	96	54 - 127	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	265841	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	159251	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	296372	10.996	305267	10.996	
Chrysene-d12 (ISTD)	265657	14.633	260148	14.633	
Perylene-d12 (ISTD)	251389	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	206744	20.467	163573	20.467	

\* Values outside of QC limits

# PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Batch: 0100764

Batch Matrix: Sediment

Preparation: EPA 3546

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	0100764-BLK1	N10222005.D	10/22/20 10:40	
LCS	0100764-BS1	N10222006.D	10/22/20 10:40	
USMPDI-054SG-201009 (Dup)	0100764-DUP1	N10222008.D	10/22/20 10:40	
USMPDI-054SG-201009	A0J0344-07	N10222007.D	10/22/20 10:40	

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.

# METHOD BLANK DATA SHEET

**EPA 8270E**

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>	
Matrix: <u>Sediment</u>	Laboratory ID: <u>0100764-BLK1</u>	File ID: <u>N10222005.D</u>
Prepared: <u>10/22/20 10:40</u>	Preparation: <u>EPA 3546</u>	Initial/Final: <u>11 g / 5 mL</u>
Analyzed: <u>10/22/20 17:09</u>	Instrument: <u>SV-GCMS14</u>	
Batch: <u>0100764</u>	Sequence: <u>0J22053</u>	Calibration: <u>A0H1005</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	41.5	91	44 - 120	
p-Terphenyl-d14 (Surr)	45.5	49.1	108	54 - 127	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	

# LCS / LCS DUPLICATE RECOVERY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Batch: 0100764

Laboratory ID: 0100764-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	19.8	99	40 - 123
Acenaphthylene	20.0	20.5	103	32 - 132
Anthracene	20.0	21.4	107	47 - 123
Benzo(a)anthracene	20.0	19.5	97	49 - 126
Benzo(a)pyrene	20.0	22.7	114	45 - 129
Benzo(b)fluoranthene	20.0	20.1	101	45 - 132
Benzo(k)fluoranthene	20.0	19.8	99	47 - 132
Benzo(g,h,i)perylene	20.0	18.7	94	43 - 134
Chrysene	20.0	19.7	98	50 - 124
Dibenz(a,h)anthracene	20.0	18.3	92	45 - 134
Fluoranthene	20.0	20.3	101	50 - 127
Fluorene	20.0	21.4	107	43 - 125
Indeno(1,2,3-cd)pyrene	20.0	17.2	86	45 - 133
2-Methylnaphthalene	20.0	20.2	101	38 - 122
Naphthalene	20.0	18.6	93	35 - 123
Phenanthrene	20.0	19.3	96	50 - 121
Pyrene	20.0	19.3	97	47 - 127

\* = Values outside of QC limits

# DUPLICATES

USMPDI-054SG-201009

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Matrix: Sediment

Laboratory ID: 0100764-DUP1

Batch: 0100764

Lab Source ID: A0J0344-07

Preparation: EPA 3546

Initial/Final: 10.11 g / 5 mL

Source Sample Name: USMPDI-054SG-201009

% Solids: 38.75

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/kg dry)	C	DUPLICATE CONCENTRATION (ug/kg dry)	C	RPD %	Q	METHOD
Acenaphthene	30	747		1600		73	*	EPA 8270E
Acenaphthylene	30	628		789		23		EPA 8270E
Anthracene	30	1460		2600		56	*	EPA 8270E
Benz(a)anthracene	30	4010		7250		57	*	EPA 8270E
Benzo(a)pyrene	30	5840		11000		61	*	EPA 8270E
Benzo(b)fluoranthene	30	4530		9570		71	*	EPA 8270E
Benzo(k)fluoranthene	30	1630		3430		71	*	EPA 8270E
Benzo(g,h,i)perylene	30	3990		7080		56	*	EPA 8270E
Chrysene	30	4970		8220		49	*	EPA 8270E
Dibenz(a,h)anthracene	30	526		870		49	*	EPA 8270E
Fluoranthene	30	6910		13700		66	*	EPA 8270E
Fluorene	30	597		1060		56	*	EPA 8270E
Indeno(1,2,3-cd)pyrene	30	3200		6160		63	*	EPA 8270E
2-Methylnaphthalene	30	402		809		67	*	EPA 8270E
Naphthalene	30	994		1870		61	*	EPA 8270E
Phenanthrene	30	4510		7860		54	*	EPA 8270E
Pyrene	30	8730		14100		47	*	EPA 8270E

\* Values outside of QC limits

# ANALYSIS BATCH (SEQUENCE) SUMMARY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0H07053

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0H07053-TUN1	N08072008.D	08/07/20 15:49
Initial Cal Blank	0H07053-ICB1	N08072009.D	08/07/20 16:17
Cal Standard	0H07053-CAL1	N08072010.D	08/07/20 16:50
Cal Standard	0H07053-CAL2	N08072011.D	08/07/20 17:23
Cal Standard	0H07053-CAL3	N08072012.D	08/07/20 17:56
Cal Standard	0H07053-CAL4	N08072013.D	08/07/20 18:29
Cal Standard	0H07053-CAL5	N08072014.D	08/07/20 19:02
Cal Standard	0H07053-CAL6	N08072015.D	08/07/20 19:35
Cal Standard	0H07053-CAL7	N08072016.D	08/07/20 20:07
Cal Standard	0H07053-CAL8	N08072017.D	08/07/20 20:40
Cal Standard	0H07053-CAL9	N08072018.D	08/07/20 21:12
Cal Standard	0H07053-CALA	N08072019.D	08/07/20 21:45
Initial Cal Check	0H07053-ICV1	N08072022.D	08/07/20 23:23

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 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J22053

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A0H1005

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J22053-TUN1	N10222001.D	10/22/20 15:05
Calibration Check	0J22053-CCV1	N10222003.D	10/22/20 16:05
Calibration Blank	0J22053-CCB1	N10222004.D	10/22/20 16:37
Blank	0100764-BLK1	N10222005.D	10/22/20 17:09
LCS	0100764-BS1	N10222006.D	10/22/20 17:41
USMPDI-054SG-201009	A0J0344-07	N10222007.D	10/22/20 18:14
USMPDI-054SG-201009 (Dup)	0100764-DUP1	N10222008.D	10/22/20 18:46

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 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Lab File ID: N08072008.D

Injection Date: 08/07/20

Instrument ID: SV-GCMS14

Injection Time: 15:49

Sequence: 0H07053

Lab Sample ID: 0H07053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.94	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	0.00	PASS
m/z 198	Base peak, 100% relative abundance	100.00	PASS
m/z 199	5 - 9% of m/z 198	6.87	PASS
m/z 365	1 - 100% of m/z 198	4.48	PASS
m/z 441	Less than 150% of m/z 443	77.10	PASS
m/z 442	0.1 - 200% of m/z 198	160.18	PASS
m/z 443	15 - 24% of m/z 442	19.73	PASS

# MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Lab File ID: N10222001.D

Injection Date: 10/22/20

Instrument ID: SV-GCMS14

Injection Time: 15:05

Sequence: 0J22053

Lab Sample ID: 0J22053-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
m/z 68	Less than 2% of m/z 69	1.79	PASS
m/z 69	Base peak, 100% relative abundance	100.00	PASS
m/z 70	Less than 2% of m/z 69	0.50	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	6.82	PASS
m/z 365	1 - 100% of m/z 198	4.51	PASS
m/z 441	Less than 150% of m/z 443	77.76	PASS
m/z 442	0.1 - 200% of m/z 198	160.72	PASS
m/z 443	15 - 24% of m/z 442	19.63	PASS

# INITIAL CALIBRATION DATA (Summary)

EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1005

Date: 08/10/20 14:04

Instrument: SV-GCMS14

Compound	Mean RF	FIT	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.224777	Ave	3.28774	9.521667	1.529013E-02			20	
Acenaphthylene	1.676085	Ave	6.64947	9.346666	1.797138E-02			20	
Anthracene	0.8864905	Ave	6.420735	11.072	7.521604E-03			20	
Benz(a)anthracene	0.9997107	Ave	8.090332	14.612	3.897712E-02			20	
Benzo(a)pyrene	0.7351622	Ave	8.286794	17.94644	5.617144E-02			20	
Benzo(b)fluoranthene	1.013983	Ave	4.444269	17.17922	5.423954E-02			20	
Benzo(k)fluoranthene	0.9566106	Ave	6.313553	17.24389	6.995392E-02			20	
Benzo(g,h,i)perylene	1.094263	Ave	7.72528	21.01056	6.176028E-02			20	
Chrysene	1.032987	Ave	2.369351	14.69089	5.186376E-02			20	
Dibenz(a,h)anthracene	1.058201	Ave	3.82909	20.53556	4.836268E-02			20	
Fluoranthene	1.122704	Ave	6.327389	12.26044	1.770666E-02			20	
Fluorene	1.246869	Ave	6.297717	10.04578	1.694453E-02			20	
Indeno(1,2,3-cd)pyrene	1.07625	Ave	3.581026	20.47555	0.0624759			20	
2-Methylnaphthalene	0.7456587	Ave	5.017066	8.443	1.801969E-02			20	
Naphthalene	1.031219	Ave	6.62107	7.761	8.103876E-03			20	
Phenanthrene	1.082295	Ave	5.452007	11.01967	2.384211E-02			20	
Pyrene	1.338996	Ave	10.87983	12.53633	3.221527E-02			20	
2-Fluorobiphenyl (Surr)	1.42981	Ave	3.043226	8.804667	0.021133			20	
p-Terphenyl-d14 (Surr)	0.9614652	Ave	4.151337	12.73078	3.086798E-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 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1005

Instrument: SV-GCMS14

Calibration Date: 08/10/20 14:04

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	1.266588	2	1.259815	5	1.265777	10	1.192073	20	1.235865	50	1.231708
Acenaphthylene	1	1.473633	2	1.566064	5	1.592098	10	1.684731	20	1.685739	50	1.756836
Anthracene	1	0.8682272	2	0.8626834	5	0.8328087	10	0.7750112	20	0.9046703	50	0.9389991
Benz(a)anthracene	1	1.184899	2	1.074494	5	0.9605319	10	0.9221166	20	0.9631404	50	0.963527
Benzo(a)pyrene	1	0.7540831	2	0.6814332	5	0.6490017	10	0.6616363	20	0.7174292	50	0.7561626
Benzo(b)fluoranthene	1	1.008465	2	1.004204	5	0.9228586	10	0.9823829	20	1.012913	50	1.015306
Benzo(k)fluoranthene	1	0.9262896	2	0.85418	5	0.9182004	10	0.919192	20	0.9394501	50	0.9839213
Benzo(b+k)fluoranthene(s)	2	0.9673774	4	0.9991685	10	0.981519	20	1.014628	40	1.033446	100	1.051087
Benzo(g,h,i)perylene	1	1.002955	2	1.024852	5	1.002527	10	1.045448	20	1.075362	50	1.105886
Chrysene	1	1.049666	2	1.051325	5	1.062643	10	1.01291	20	1.045981	50	1.034519
Dibenz(a,h)anthracene	1	1.062196	2	1.058074	5	1.012511	10	1.009203	20	1.045319	50	1.024115
Fluoranthene	1	1.056056	2	1.074463	5	1.057517	10	1.022427	20	1.136697	50	1.169593
Fluorene	1	1.207642	2	1.215405	5	1.185375	10	1.104056	20	1.246986	50	1.30179
Indeno(1,2,3-cd)pyrene	1	1.056685	2	1.049768	5	1.042339	10	1.056869	20	1.057141	50	1.051176
1-Methylnaphthalene	1	0.7088105	2	0.7198507	5	0.7441939	10	0.7430097	20	0.7567288	50	0.7691963
2-Methylnaphthalene	1	0.674944	2	0.7345506	5	0.735525	10	0.7034539	20	0.7538713	50	0.7799008
Naphthalene	1	1.192481	2	1.065522	5	1.023012	10	1.030426	20	1.027633	50	1.001125
Phenanthrene	1	1.194887	2	1.147992	5	1.072126	10	1.061079	20	1.080868	50	1.07704
Pyrene	1	1.284177	2	1.2849	5	1.313924	10	1.6735	20	1.366347	50	1.310469
Carbazole	1	0.5952944	2	0.5751223	5	0.6089076	10	0.5022022	20	0.7240911	50	0.7596221
Dibenzofuran	1	1.495001	2	1.486482	5	1.487576	10	1.397071	20	1.543034	50	1.598791
2-Fluorobiphenyl (Surr)	1	1.376373	2	1.392688	5	1.424779	10	1.394323	20	1.45977	50	1.49245
p-Terphenyl-d14 (Surr)	1	0.9477046	2	0.8995485	5	0.9648729	10	1.002554	20	1.009059	50	0.9827495

# INITIAL CALIBRATION DATA (Continued)

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Calibration: A0H1005

Instrument: SV-GCMS14

Matrix:

Calibration Date: 08/10/20 14:04

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	1.219383	200	1.209551	400	<del>1.232999</del>	600	1.142233				
Acenaphthylene	100	1.792244	200	1.80289	400	<del>1.876483</del>	600	1.730527				
Anthracene	100	0.9382494	200	0.9420696	400	<del>0.7901208</del>	600	0.9156957				
Benz(a)anthracene	100	0.9611599	200	0.9726267	400	<del>1.048637</del>	600	0.9949005				
Benzo(a)pyrene	100	0.7782665	200	0.805154	400	<del>0.779903</del>	600	0.8132936				
Benzo(b)fluoranthene	100	1.048428	200	1.053598	400	<del>1.236261</del>	600	1.077695				
Benzo(k)fluoranthene	100	1.002326	200	1.040167	400	<del>1.122845</del>	600	1.025769				
Benzo(b+k)fluoranthene(s)	200	1.07179	400	1.085373	800	<del>1.279903</del>	1200	1.083246				
Benzo(g,h,i)perylene	100	1.171739	200	1.213194	400	<del>1.249126</del>	600	1.206407				
Chrysene	100	1.039442	200	1.016506	400	<del>1.177632</del>	600	0.983888				
Dibenz(a,h)anthracene	100	1.110137	200	1.122575	400	<del>1.227273</del>	600	1.079675				
Fluoranthene	100	1.203197	200	1.211771	400	<del>0.7562554</del>	600	1.172611				
Fluorene	100	1.348499	200	1.339774	400	<del>0.6662483</del>	600	1.272294				
Indeno(1,2,3-cd)pyrene	100	1.095671	200	1.128245	400	<del>1.095863</del>	600	1.148353				
1-Methylnaphthalene	100	0.7690295	200	0.7635127	400	<del>0.5641224</del>	600	0.7411247				
2-Methylnaphthalene	100	0.7823918	200	0.7797779	400	<del>0.5409846</del>	600	0.7665129				
Naphthalene	100	1.004707	200	0.982835	400	<del>1.031776</del>	600	0.9532298				
Phenanthrene	100	1.069398	200	1.050309	400	<del>1.062338</del>	600	0.9869592				
Pyrene	100	1.405048	200	1.277676	400	<del>1.615837</del>	600	1.134926				
Carbazole	100	0.7145441	200	0.7306888	400	<del>0.4921268</del>	600	0.7203112				
Dibenzofuran	100	1.622159	200	1.641018	400	<del>1.146223</del>	600	1.587827				
2-Fluorobiphenyl (Surr)	100	1.471634	200	1.467201	400	<del>1.885155</del>	600	1.389068				
p-Terphenyl-d14 (Surr)	100	0.9901441	200	0.9535586	400	<del>1.311325</del>	600	0.9029958				

# SECOND-SOURCE CALIBRATION VERIFICATION

## EPA 8270E

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>
Instrument ID: <u>SV-GCMS14</u>	Calibration: <u>A0H1005</u>
Lab File ID: <u>N08072022.D</u>	
Sequence: <u>0H07053</u>	Inject Date: <u>08/07/20</u>
Lab Sample ID: <u>0H07053-ICV1</u>	Inject Time: <u>23:23</u>

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Acenaphthene	50.0	49.6	-0.8	70 - 130
Acenaphthylene	50.0	52.1	4.2	70 - 130
Anthracene	50.0	52.8	5.7	70 - 130
Benz(a)anthracene	50.0	46.0	-8.0	70 - 130
Benzo(a)pyrene	50.0	56.6	13.2	70 - 130
Benzo(b)fluoranthene	50.0	49.2	-1.6	70 - 130
Benzo(k)fluoranthene	50.0	50.6	1.2	70 - 130
Benzo(g,h,i)perylene	50.0	51.2	2.4	70 - 130
Chrysene	50.0	48.9	-2.3	70 - 130
Dibenz(a,h)anthracene	50.0	49.2	-1.7	70 - 130
Fluoranthene	50.0	53.0	6.0	70 - 130
Fluorene	50.0	50.7	1.4	70 - 130
Indeno(1,2,3-cd)pyrene	50.0	46.6	-6.9	70 - 130
2-Methylnaphthalene	50.0	50.7	1.4	70 - 130
Naphthalene	50.0	48.3	-3.4	70 - 130
Phenanthrene	50.0	49.2	-1.6	70 - 130
Pyrene	50.0	51.2	2.3	70 - 130
2-Fluorobiphenyl (Surr)	50.0	50.2	0.5	70 - 130
p-Terphenyl-d14 (Surr)	50.0	50.3	0.6	70 - 130

# CONTINUING CALIBRATION CHECK

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Instrument ID: SV-GCMS14

Calibration: A0H1005

Lab File ID: N10222003.D

Calibration Date: 08/10/20 14:04

Sequence: 0J22053

Injection Date: 10/22/20

Lab Sample ID: 0J22053-CCV1

Injection Time: 16:05

COMPOUND	Curve Fit	Calculated Concentration (ng/mL) [L/Q Fits]			Response Factors [Ave RF]			Limit
		STD	CCV	% DIFF	ICAL	CCV	% Drift	
Acenaphthene	Ave	100	96.7		1.224777	1.184135	-3.3	20
Acenaphthylene	Ave	100	106		1.676085	1.784882	6.5	20
Anthracene	Ave	100	105		0.8864905	0.9325771	5.2	20
Benz(a)anthracene	Ave	100	95.4		0.9997107	0.9532689	-4.6	20
Benzo(a)pyrene	Ave	100	102		0.7351622	0.7464633	1.5	20
Benzo(b)fluoranthene	Ave	100	97.9		1.013983	0.9926438	-2.1	20
Benzo(k)fluoranthene	Ave	100	105		0.9566106	1.003004	4.8	20
Benzo(g,h,i)perylene	Ave	100	99.5		1.094263	1.088328	-0.5	20
Chrysene	Ave	100	99.5		1.032987	1.027407	-0.5	20
Dibenz(a,h)anthracene	Ave	100	94.8		1.058201	1.003381	-5.2	20
Fluoranthene	Ave	100	99.5		1.122704	1.116698	-0.5	20
Fluorene	Ave	100	101		1.246869	1.262232	1.2	20
Indeno(1,2,3-cd)pyrene	Ave	100	93.6		1.07625	1.006823	-6.5	20
2-Methylnaphthalene	Ave	100	99.6		0.7456587	0.7428067	-0.4	20
Naphthalene	Ave	100	94.7		1.031219	0.97672	-5.3	20
Phenanthrene	Ave	100	96.9		1.082295	1.048535	-3.1	20
Pyrene	Ave	100	101		1.338996	1.348332	0.7	20

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

\* = Values outside of QC limits



# SURROGATE STANDARD RECOVERY AND RT SUMMARY

## EPA 8270E

Laboratory: <u>Apex Laboratories</u>	SDG: <u>A0J0344</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>US Moorings -- C2, C3, C4</u>
Sequence: <u>0H07053</u>	Instrument: <u>SV-GCMS14</u>
Matrix: <u>Sediment</u>	Calibration: <u>A0H1005</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (0H07053-ICV1 )</b>			Lab File ID: N08072022.D		Analyzed: 08/07/20 23:23			
2-Fluorobiphenyl (Surr)	50.0	100	70 - 130	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	101	70 - 130	12.733	12.73078	0.0022	+/-1.0	

# SURROGATE STANDARD RECOVERY AND RT SUMMARY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

Sequence: 0J22053

Instrument: SV-GCMS14

Matrix: Sediment

Calibration: A0H1005

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
<b>Calibration Check (0J22053-CCV1 )</b>			Lab File ID: N10222003.D		Analyzed: 10/22/20 16:05			
2-Fluorobiphenyl (Surr)	100	103	80 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	100	106	80 - 120	12.732	12.73078	0.0012	+/-1.0	
<b>Calibration Blank (0J22053-CCB1 )</b>			Lab File ID: N10222004.D		Analyzed: 10/22/20 16:37			
2-Fluorobiphenyl (Surr)			44 - 120	0	8.804667	-8.8047	+/-1.0	
p-Terphenyl-d14 (Surr)			54 - 127	12.733	12.73078	0.0022	+/-1.0	
<b>Blank (0100764-BLK1 )</b>			Lab File ID: N10222005.D		Analyzed: 10/22/20 17:09			
2-Fluorobiphenyl (Surr)	45.5	91	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	45.5	108	54 - 127	12.733	12.73078	0.0022	+/-1.0	
<b>LCS (0100764-BS1 )</b>			Lab File ID: N10222006.D		Analyzed: 10/22/20 17:41			
2-Fluorobiphenyl (Surr)	50.0	94	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	50.0	106	54 - 127	12.727	12.73078	-0.0038	+/-1.0	
<b>USMPDI-054SG-201009 (A0J0344-07 )</b>			Lab File ID: N10222007.D		Analyzed: 10/22/20 18:14			
2-Fluorobiphenyl (Surr)	127	78	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	127	96	54 - 127	12.733	12.73078	0.0022	+/-1.0	
<b>Duplicate (0100764-DUP1 )</b>			Lab File ID: N10222008.D		Analyzed: 10/22/20 18:46			
2-Fluorobiphenyl (Surr)	128	74	44 - 120	8.804	8.804667	-0.0007	+/-1.0	
p-Terphenyl-d14 (Surr)	128	98	54 - 127	12.727	12.73078	-0.0038	+/-1.0	

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

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 0J22053  
 Matrix: Sediment

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Instrument: SV-GCMS14  
 Calibration: A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (0J22053-CCV1)</b>			Lab File ID: N10222003.D			Analyzed: 10/22/20 16:05			
Naphthalene-d8 (ISTD)	262328	7.743	239628	7.737	109	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	160377	9.492	160491	9.492	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	305267	10.996	310167	10.996	98	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	260148	14.633	274150	14.633	95	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	221037	18.083	244609	18.083	90	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	163573	20.467	188292	20.467	87	50 - 200	0.0000	+/-0.50	
<b>Calibration Blank (0J22053-CCB1)</b>			Lab File ID: N10222004.D			Analyzed: 10/22/20 16:37			
Naphthalene-d8 (ISTD)	242049	7.743	262328	7.743	92	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	152210	9.492	160377	9.492	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	281216	10.996	305267	10.996	92	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	206900	14.633	260148	14.633	80	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	185109	18.083	221037	18.083	84	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	158429	20.467	163573	20.467	97	50 - 200	0.0000	+/-0.50	
<b>Blank (0100764-BLK1)</b>			Lab File ID: N10222005.D			Analyzed: 10/22/20 17:09			
Naphthalene-d8 (ISTD)	249163	7.743	262328	7.743	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	159162	9.492	160377	9.492	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	313430	10.996	305267	10.996	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	282228	14.633	260148	14.633	108	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	268366	18.083	221037	18.083	121	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	230260	20.467	163573	20.467	141	50 - 200	0.0000	+/-0.50	
<b>LCS (0100764-BS1)</b>			Lab File ID: N10222006.D			Analyzed: 10/22/20 17:41			
Naphthalene-d8 (ISTD)	250949	7.737	262328	7.743	96	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	165335	9.492	160377	9.492	103	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	326376	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	292477	14.633	260148	14.633	112	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	266297	18.083	221037	18.083	120	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	216323	20.461	163573	20.467	132	50 - 200	-0.0060	+/-0.50	
<b>USMPDI-054SG-201009 (A0J0344-07)</b>			Lab File ID: N10222007.D			Analyzed: 10/22/20 18:14			
Naphthalene-d8 (ISTD)	265841	7.743	262328	7.743	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (ISTD)	159251	9.492	160377	9.492	99	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	296372	10.996	305267	10.996	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	265657	14.633	260148	14.633	102	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	251389	18.083	221037	18.083	114	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	206744	20.467	163573	20.467	126	50 - 200	0.0000	+/-0.50	

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

Laboratory: Apex Laboratories  
 Client: Anchor QEA, LLC  
 Sequence: 0J22053  
 Matrix: Sediment

SDG: A0J0344  
 Project: US Moorings -- C2, C3, C4  
 Instrument: SV-GCMS14  
 Calibration: A0H1005

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Duplicate (0100764-DUP1 )</b>			Lab File ID: N10222008.D			Analyzed: 10/22/20 18:46			
Naphthalene-d8 (ISTD)	255913	7.737	262328	7.743	98	50 - 200	-0.0060	+/-0.50	
Acenaphthene-d10 (ISTD)	166139	9.492	160377	9.492	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	327117	10.996	305267	10.996	107	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	315304	14.633	260148	14.633	121	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	310832	18.083	221037	18.083	141	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	253664	20.467	163573	20.467	155	50 - 200	0.0000	+/-0.50	
<b>Matrix Spike (0100764-MS1 )</b>			Lab File ID: N10222010.D			Analyzed: 10/22/20 19:50			
Naphthalene-d8 (ISTD)	251515	7.738	262328	7.743	96	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10 (ISTD)	163680	9.492	160377	9.492	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10 (ISTD)	319187	10.996	305267	10.996	105	50 - 200	0.0000	+/-0.50	
Chrysene-d12 (ISTD)	310634	14.633	260148	14.633	119	50 - 200	0.0000	+/-0.50	
Perylene-d12 (ISTD)	307981	18.083	221037	18.083	139	50 - 200	0.0000	+/-0.50	
Dibenz(a,h)anthracene-d14 (ISTD)	258683	20.461	163573	20.467	158	50 - 200	-0.0060	+/-0.50	

# HOLDING TIME SUMMARY

## EPA 8270E

Laboratory: Apex Laboratories

SDG: A0J0344

Client: Anchor QEA, LLC

Project: US Moorings -- C2, C3, C4

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
USMPDI-054SG-201009	10/09/20 14:50	10/10/20 07:30	10/22/20 10:40	12.83	14.00	10/22/20 18:14	0.32	40.00	

## Amended Raw Data

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Scan)  
Analysis Sequence Data**

Sequence 0J22053 (A0J0371-10)



ELEMENT SEQUENCE LOG

Apex Laboratories

Sequence: 0J22053  
Date: 10/22/20 10:50

Instrument: SV-GCMS14  
Calibration: A0H1005

#	Lab Number	Matrix	Analysis	Client	Due	Batch	ISTD ID	STD ID
1	0J22053-TUN1	Sediment	QC	QC			A20J202	A20J205
2	0J22053-IBL1	Sediment	QC	QC			A20J202	
3	0J22053-CCV1	Sediment	QC	QC			A20J202	A20J299
4	0J22053-CCB1	Sediment	QC	QC			A20J202	
5	0100764-BLK1	Sediment	QC	QC		0100764	A20J202	
6	0100764-BS1	Sediment	QC	QC		0100764	A20J202	
7	A0J0344-07	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
8	0100764-DUP1	Sediment	QC	QC		0100764	A20J202	
9	A0J0371-10	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
10	0100764-MS1	Sediment	QC	QC		0100764	A20J202	
11	A0J0371-02	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
12	A0J0371-05	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
13	A0J0371-06	Sediment	8270E LL PAH Only (Scan)	Anchor QEA, LLC	10/23/20	0100764	A20J202	
14	0J22053-IBL2	Sediment	QC	QC			A20J202	

Data Entered By/Date: AMS 2/8/21

Comments: Reanalyzed for A0J0344-07 and A0J0371-10

Data Reviewed By/Date: JK 2/8/21

2/8/2021 10:26:51AM



Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	265841	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	159251	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	296372	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	265657	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	251389	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthrcene-d...	20.467	292	206744	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	352	0.47	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.804	172	897	0.39	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.296	330	63	2.09	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	1234	0.48	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.324	138	108	0.68	ng/ml#	18
4) Naphthalene	7.761	128	10732	3.91	ng/ml	98
5) 2-Methylnaphthalene	8.443	142	3128	1.58	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	1703	0.86	ng/ml	98
7) 1,1'-Biphenyl	8.909	154	1055	0.42	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.072	156	2126	1.15	ng/ml	95
11) Acenaphthylene	9.346	152	6601	2.47	ng/ml	96
12) Acenaphthene	9.521	153	5744	2.94	ng/ml	96
13) Dibenzofuran	9.696	168	1129	0.46	ng/ml	83
14) 1,6,7-Trimethylnaphtha...	9.906	170	1287	0.73	ng/ml	91
15) Fluorene	10.046	166	4675	2.35	ng/ml	97
18) Pentachlorophenol (PCP)	10.827	266	74	9.44	ng/ml#	42
19) Dibenzothiopene	10.891	184	6321	2.20	ng/ml	96
20) Phenanthrene	11.019	178	56926	17.75	ng/ml	99
21) Anthracene	11.071	178	15109	5.75	ng/ml	98
22) Carbazole	11.241	167	2526	1.29	ng/ml	89
23) 1-Methylphenanthrene	11.643	192	5756	2.50	ng/ml	99
24) Fluoranthene	12.261	202	90370	27.16	ng/ml	95
26) Pyrene	12.534	202	122144	34.34	ng/ml	99
28) Benz(a)anthracene	14.609	228	41911	15.78	ng/ml	88
29) Chrysene	14.691	228	53654	19.55	ng/ml	96
31) Benzo(b)fluoranthene	17.180	252	45428	17.82	ng/ml	90
32) Benzo(k)fluoranthene	17.238	252	15452m	6.43	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

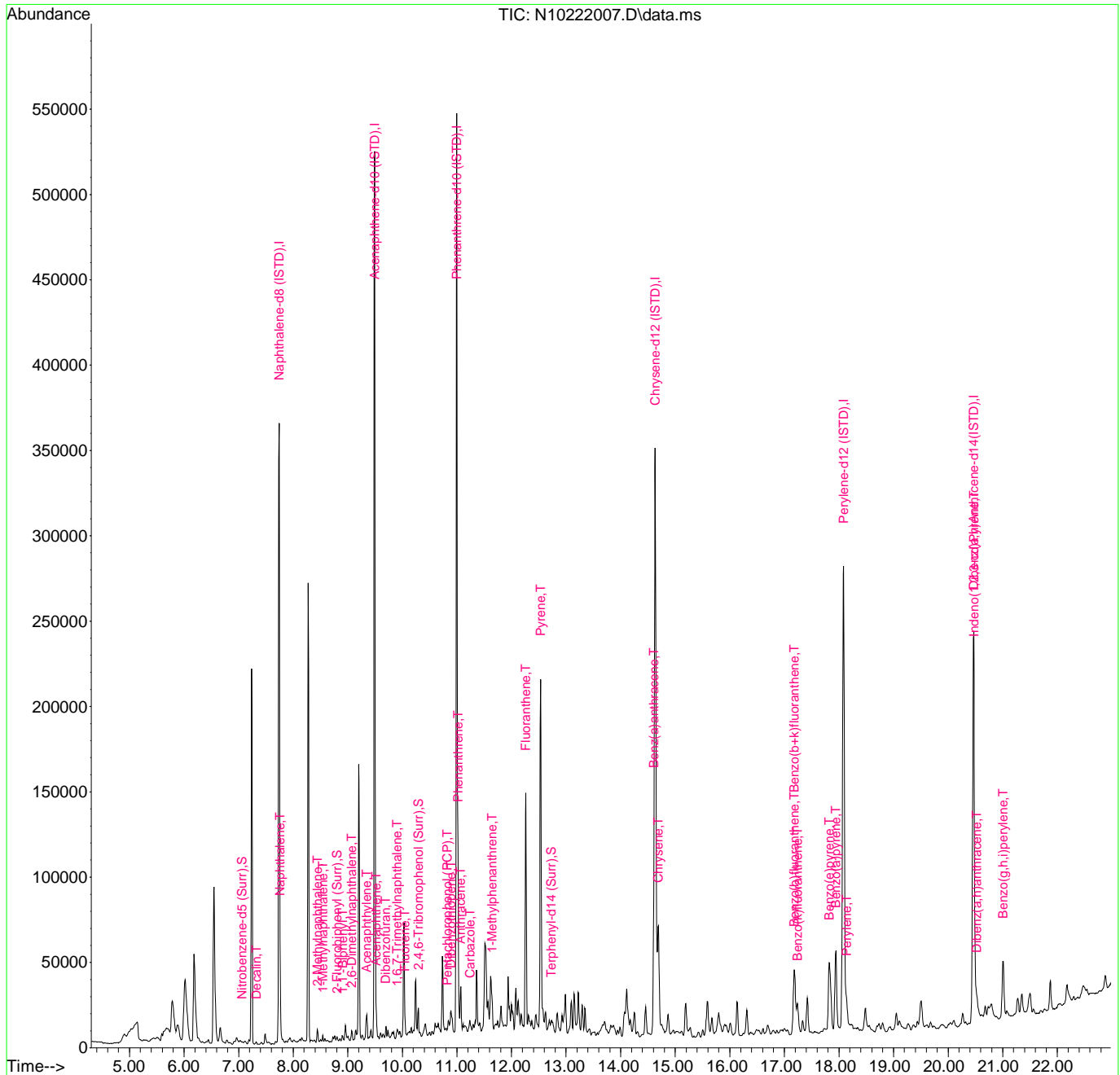
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzo(b+k)fluoranthene	17.180	252	64411	24.83	ng/ml	88
34) Benzo(e)pyrene	17.821	252	32116	12.67	ng/ml	97
35) Benzo(a)pyrene	17.943	252	42469	22.98	ng/ml	95
36) Perylene	18.142	252	12636	4.60	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	28042	12.60	ng/ml	78
39) Dibenz(a,h)anthracene	20.526	278	4525	2.07	ng/ml	86
40) Benzo(g,h,i)perylene	21.009	276	35467	15.68	ng/ml	76

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

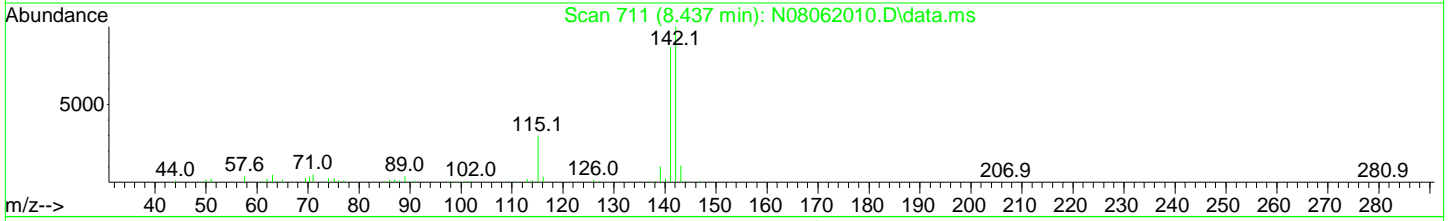
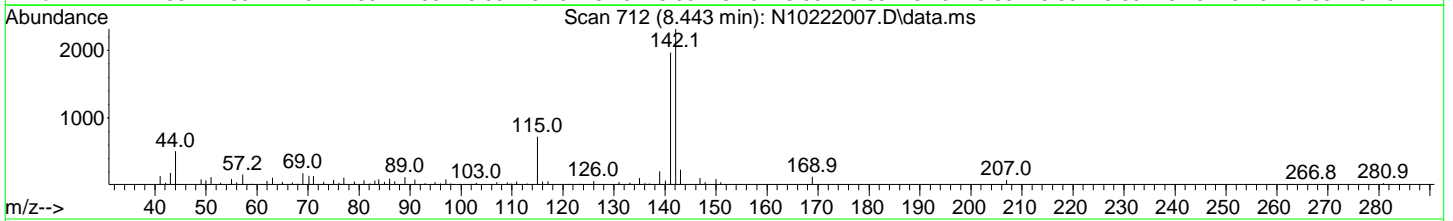
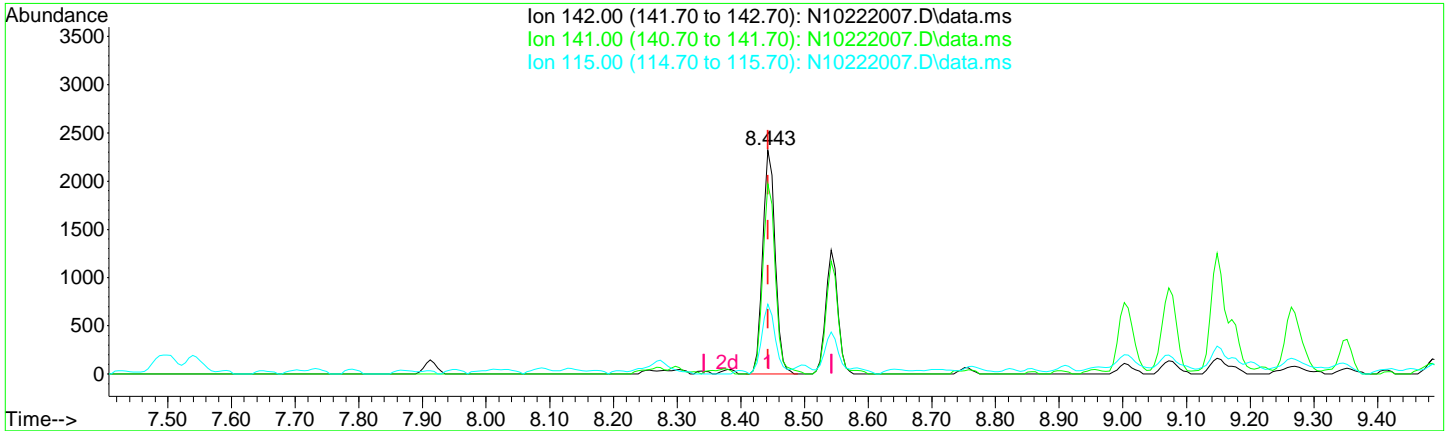
Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(5) 2-Methylnaphthalene (T)

8.443min (+ 0.000) 1.58 ng/ml

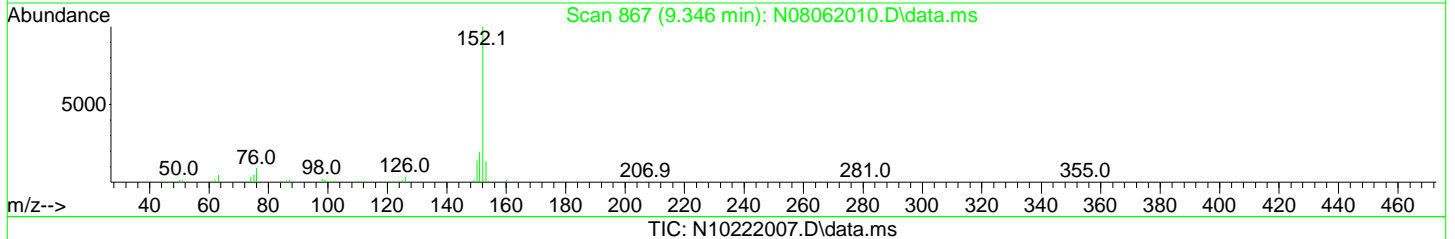
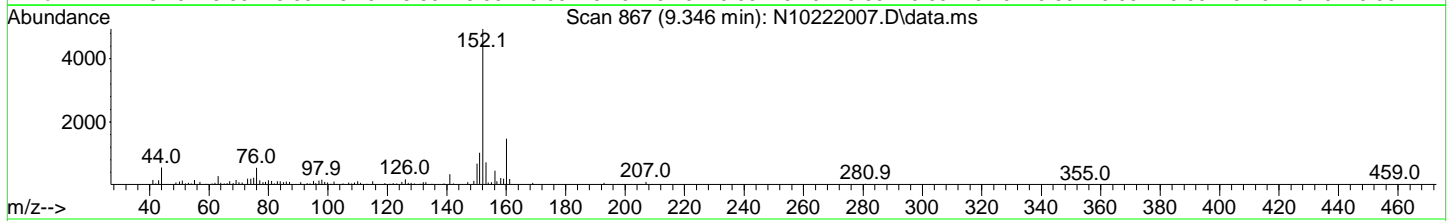
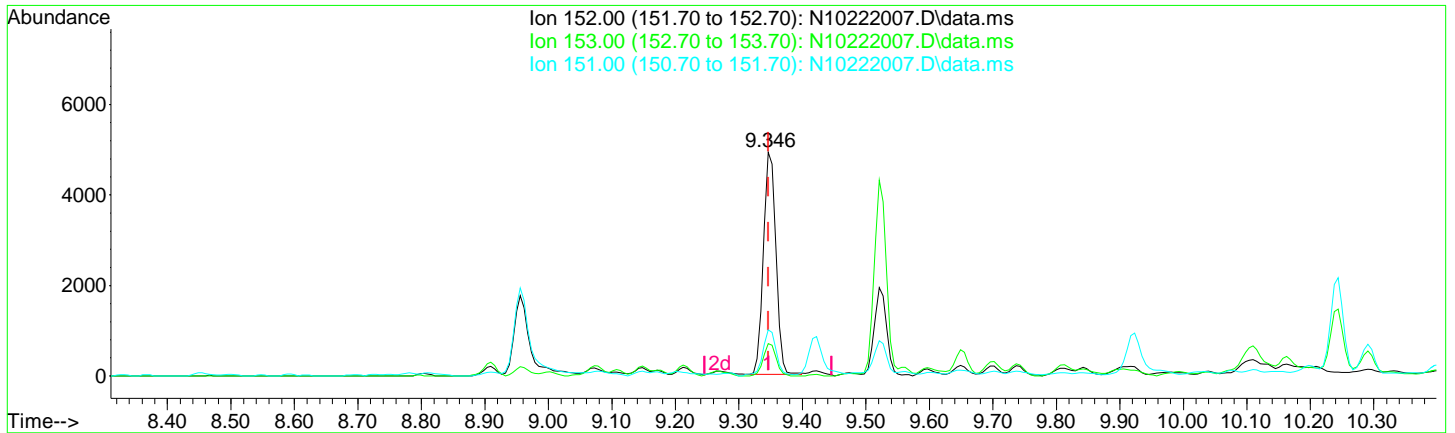
response 3128

Ion	Exp%	Act%
142.00	100.00	100.00
141.00	86.60	84.96
115.00	35.70	31.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

(11) Acenaphthylene (T)

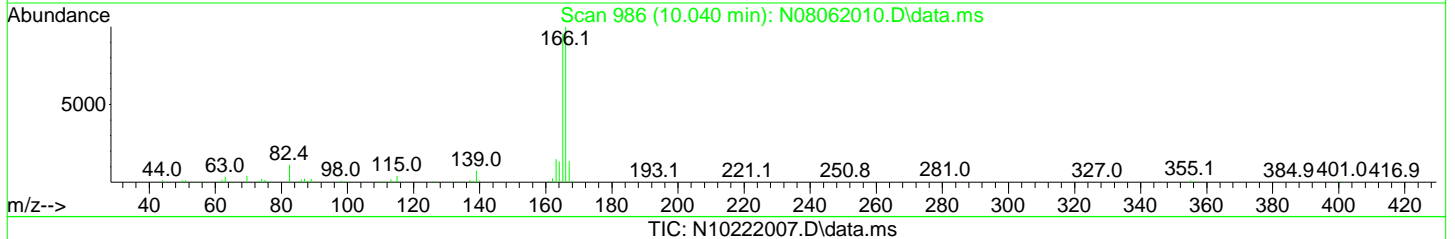
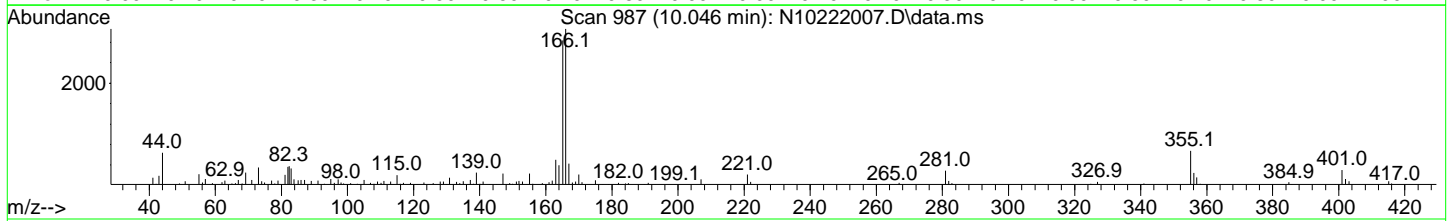
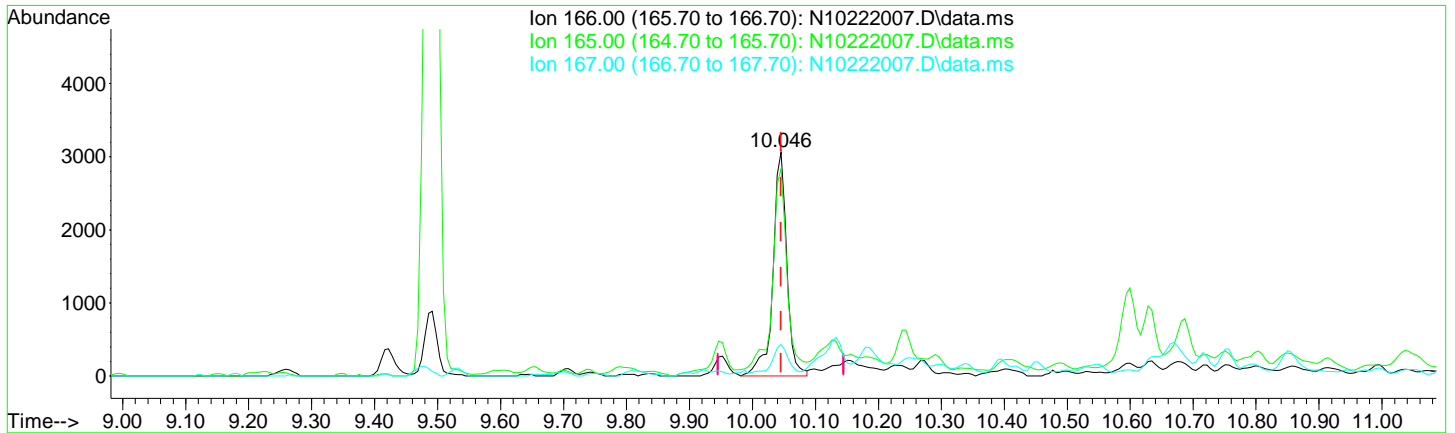
9.346min (+ 0.000) 2.47 ng/ml

response	6601
Ion	Exp% Act%
152.00	100.00 100.00
153.00	12.70 14.50
151.00	19.30 20.69
0.00	0.00 0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration



TIC: N10222007.D\data.ms

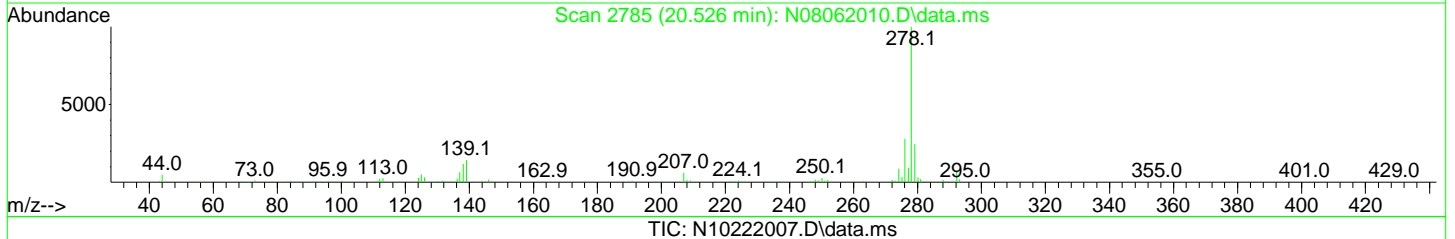
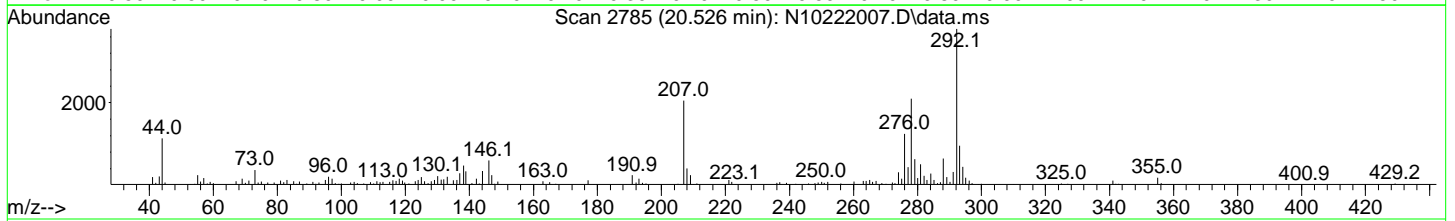
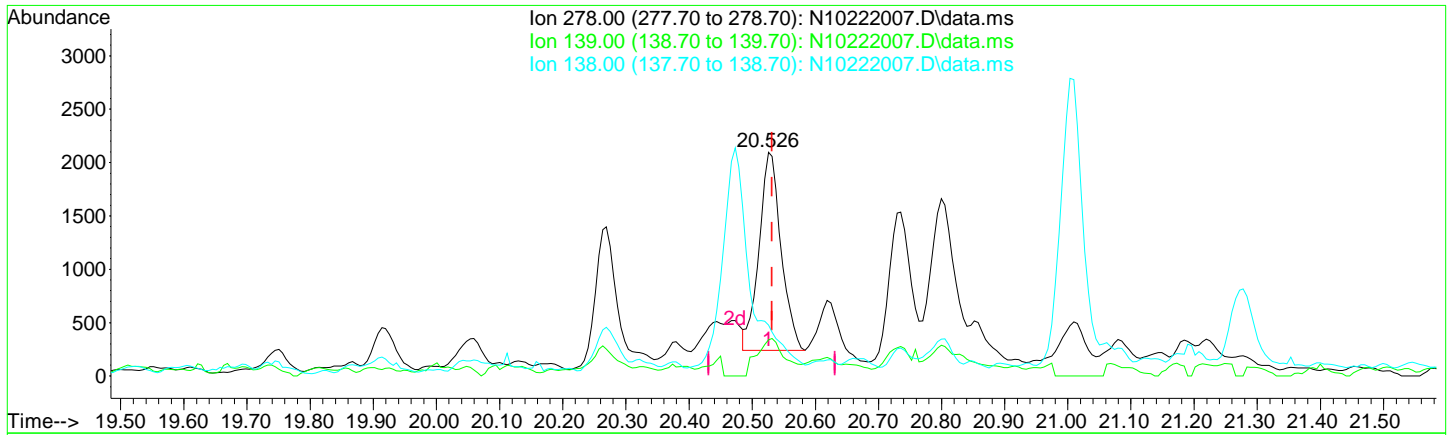
(15) Fluorene (T)  
 10.046min (+ 0.000) 2.35 ng/ml  
 response 4675

Ion	Exp%	Act%
166.00	100.00	100.00
165.00	95.70	92.59
167.00	13.60	14.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
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(39) Dibenz(a,h)anthracene (T)

20.526min (-0.006) 2.07 ng/ml

response 4525

Ion	Exp%	Act%
278.00	100.00	100.00
139.00	26.00	16.17
138.00	19.90	22.79
0.00	0.00	0.00

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 23 10:41:15 2020  
 Quant Method : U:\methods\SV14\_080720.M  
 Quant Title : EPA 8270D: Semivolatile Organics  
 QLast Update : Mon Aug 10 09:22:10 2020  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) Naphthalene-d8 (ISTD)	7.743	136	265841	100.00	ng/ml	0.00
9) Acenaphthene-d10 (ISTD)	9.492	162	159251	100.00	ng/ml	0.00
16) Phenanthrene-d10 (ISTD)	10.996	188	296372	100.00	ng/ml	0.00
25) Chrysene-d12 (ISTD)	14.633	240	265657	100.00	ng/ml	0.00
30) Perylene-d12 (ISTD)	18.083	264	251389	100.00	ng/ml	0.00
37) Dibenz(a,h)Anthracene-d...	20.467	292	206744	100.00	ng/ml	0.00
System Monitoring Compounds						
2) Nitrobenzene-d5 (Surr)	7.061	82	352	0.47	ng/ml	0.01
10) 2-Fluorobiphenyl (Surr)	8.804	172	897	0.39	ng/ml	0.00
17) 2,4,6-Tribromophenol (...)	10.296	330	63	2.09	ng/ml	0.00
27) Terphenyl-d14 (Surr)	12.733	244	1234	0.48	ng/ml	0.00
Target Compounds						
						Qvalue
3) Decalin	7.324	138	108	0.68	ng/ml#	18
4) Naphthalene	7.761	128	10732	3.91	ng/ml	98
5) 2-Methylnaphthalene	8.443	142	3128	1.58	ng/ml	97
6) 1-Methylnaphthalene	8.542	142	1703	0.86	ng/ml	98
7) 1,1'-Biphenyl	8.909	154	1055	0.42	ng/ml	95
8) 2,6-Dimethylnaphthalene	9.072	156	2126	1.15	ng/ml	95
11) Acenaphthylene	9.346	152	6601	2.47	ng/ml	96
12) Acenaphthene	9.521	153	5744	2.94	ng/ml	96
13) Dibenzofuran	9.696	168	1129	0.46	ng/ml	83
14) 1,6,7-Trimethylnaphtha...	9.906	170	1287	0.73	ng/ml	91
15) Fluorene	10.046	166	4675	2.35	ng/ml	97
18) Pentachlorophenol (PCP)	10.827	266	74	9.44	ng/ml#	42
19) Dibenzothiopene	10.891	184	6321	2.20	ng/ml	96
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22) Carbazole	11.241	167	2526	1.29	ng/ml	89
23) 1-Methylphenanthrene	11.643	192	5756	2.50	ng/ml	99
24) Fluoranthene	12.261	202	90370	27.16	ng/ml	95
26) Pyrene	12.534	202	122144	34.34	ng/ml	99
28) Benz(a)anthracene	14.609	228	41911	15.78	ng/ml	88
29) Chrysene	14.691	228	53654	19.55	ng/ml	96
31) Benzo(b)fluoranthene	17.180	252	45428	17.82	ng/ml	90
32) Benzo(k)fluoranthene	17.238	252	15452m	6.43	ng/ml	



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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzo(b+k)fluoranthene	17.180	252	64411	24.83	ng/ml	88
34) Benzo(e)pyrene	17.821	252	32116	12.67	ng/ml	97
35) Benzo(a)pyrene	17.943	252	42469	22.98	ng/ml	95
36) Perylene	18.142	252	12636	4.60	ng/ml	99
38) Indeno(1,2,3-cd)Pyrene	20.473	276	28042	12.60	ng/ml	78
39) Dibenz(a,h)anthracene	20.526	278	4525	2.07	ng/ml	86
40) Benzo(g,h,i)perylene	21.009	276	35467	15.68	ng/ml	76

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

Quantitation Report (QT Reviewed)

Data Path : U:\data\2020-10\0J22053\  
 Data File : N10222007.D  
 Acq On : 22 Oct 2020 06:14 pm  
 Operator : JK/ AMS/ DTH  
 Sample : A0J0344-07@200  
 Misc : 200x, 8270E LL PAH ONLY  
 ALS Vial : 6 Sample Multiplier: 1

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